



Full wwPDB EM Validation Report ⓘ

Nov 23, 2022 – 12:10 AM JST

PDB ID : 7F4V
EMDB ID : EMD-31455
Title : Cryo-EM structure of a primordial cyanobacterial photosystem I
Authors : Kato, K.; Hamaguchi, T.; Nagao, R.; Kawakami, K.; Yonekura, K.; Shen, J.R.
Deposited on : 2021-06-21
Resolution : 2.04 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

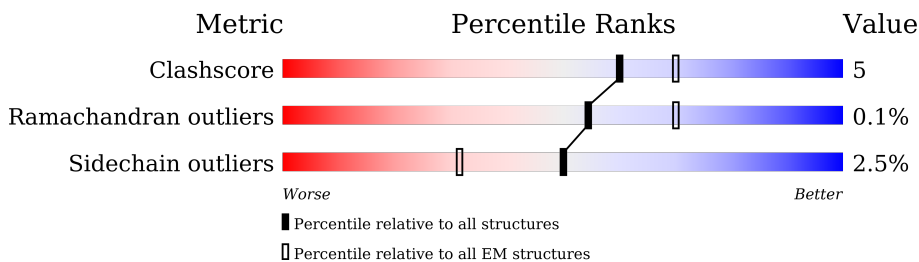
EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.3

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 2.04 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



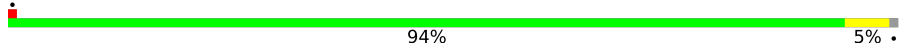

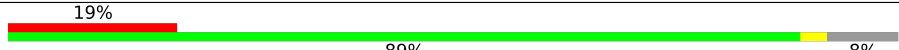
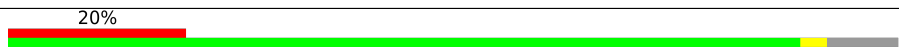

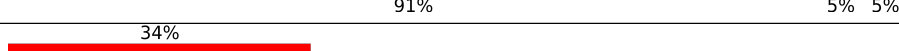
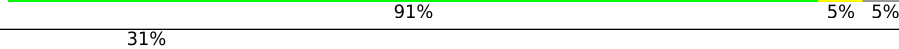
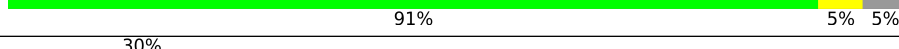




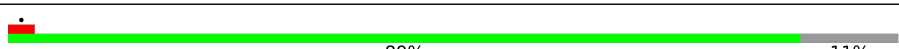


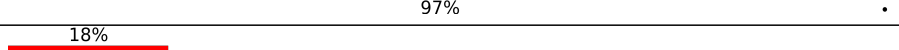
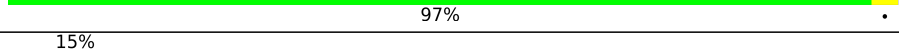
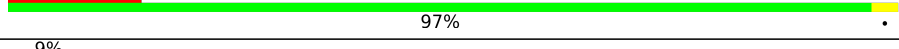




| Metric | Whole archive (#Entries) | EM structures (#Entries) |
|-----------------------|--------------------------|--------------------------|
| Clashscore | 158937 | 4297 |
| Ramachandran outliers | 154571 | 4023 |
| Sidechain outliers | 154315 | 3826 |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | aA | 783 | |
| 1 | bA | 783 | |
| 1 | cA | 783 | |
| 2 | aB | 872 | |
| 2 | bB | 872 | |
| 2 | cB | 872 | |
| 3 | aC | 81 | |
| 3 | bC | 81 | |

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| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|---|
| 3 | cC | 81 |  94% 5% |
| 4 | aD | 144 |  19% 89% 8% |
| 4 | bD | 144 |  19% 89% 8% |
| 4 | cD | 144 |  20% 89% 8% |
| 5 | aE | 65 |  28% 91% 5% 5% |
| 5 | bE | 65 |  34% 91% 5% 5% |
| 5 | cE | 65 |  31% 91% 5% 5% |
| 6 | aF | 181 |  30% 78% 5% 17% |
| 6 | bF | 181 |  34% 78% 5% 17% |
| 6 | cF | 181 |  30% 78% 5% 17% |
| 7 | aI | 35 |  89% 11% |
| 7 | bI | 35 |  89% 11% |
| 7 | cI | 35 |  89% 11% |
| 8 | aJ | 33 |  18% 97% |
| 8 | bJ | 33 |  18% 97% |
| 8 | cJ | 33 |  15% 97% |
| 9 | aL | 147 |  9% 86% 12% |
| 9 | bL | 147 |  9% 86% 12% |
| 9 | cL | 147 |  10% 86% 12% |
| 10 | aM | 34 |  82% 15% |
| 10 | bM | 34 |  82% 15% |
| 10 | cM | 34 |  82% 15% |

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 11 | CL0 | aA | 801 | X | - | - | - |
| 11 | CL0 | bA | 801 | X | - | - | - |
| 11 | CL0 | cA | 801 | X | - | - | - |
| 12 | CLA | aA | 802 | X | - | - | - |
| 12 | CLA | aA | 803 | X | - | - | - |
| 12 | CLA | aA | 804 | X | - | - | - |
| 12 | CLA | aA | 805 | X | - | - | - |
| 12 | CLA | aA | 806 | X | - | - | - |
| 12 | CLA | aA | 807 | X | - | - | - |
| 12 | CLA | aA | 808 | X | - | - | - |
| 12 | CLA | aA | 809 | X | - | - | - |
| 12 | CLA | aA | 810 | X | - | - | - |
| 12 | CLA | aA | 811 | X | - | - | - |
| 12 | CLA | aA | 812 | X | - | - | - |
| 12 | CLA | aA | 813 | X | - | - | - |
| 12 | CLA | aA | 814 | X | - | - | - |
| 12 | CLA | aA | 816 | X | - | - | - |
| 12 | CLA | aA | 818 | X | - | - | - |
| 12 | CLA | aA | 819 | X | - | - | - |
| 12 | CLA | aA | 820 | X | - | - | - |
| 12 | CLA | aA | 821 | X | - | - | - |
| 12 | CLA | aA | 823 | X | - | - | - |
| 12 | CLA | aA | 825 | X | - | - | - |
| 12 | CLA | aA | 826 | X | - | - | - |
| 12 | CLA | aA | 827 | X | - | - | - |
| 12 | CLA | aA | 828 | X | - | - | - |
| 12 | CLA | aA | 829 | X | - | - | - |
| 12 | CLA | aA | 830 | X | - | - | - |
| 12 | CLA | aA | 832 | X | - | - | - |
| 12 | CLA | aA | 833 | X | - | - | - |
| 12 | CLA | aA | 834 | X | - | - | - |
| 12 | CLA | aA | 835 | X | - | - | - |
| 12 | CLA | aA | 836 | X | - | - | - |
| 12 | CLA | aA | 837 | X | - | - | - |
| 12 | CLA | aA | 838 | X | - | - | - |
| 12 | CLA | aA | 839 | X | - | - | - |
| 12 | CLA | aA | 840 | X | - | - | - |
| 12 | CLA | aA | 841 | X | - | - | - |
| 12 | CLA | aA | 842 | X | - | - | - |
| 12 | CLA | aA | 843 | X | - | - | - |
| 12 | CLA | aA | 854 | X | - | - | - |
| 12 | CLA | aB | 901 | X | - | - | - |
| 12 | CLA | aB | 902 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 12 | CLA | aB | 903 | X | - | - | - |
| 12 | CLA | aB | 904 | X | - | - | - |
| 12 | CLA | aB | 905 | X | - | - | - |
| 12 | CLA | aB | 906 | X | - | - | - |
| 12 | CLA | aB | 907 | X | - | - | - |
| 12 | CLA | aB | 908 | X | - | - | - |
| 12 | CLA | aB | 909 | X | - | - | - |
| 12 | CLA | aB | 910 | X | - | - | - |
| 12 | CLA | aB | 912 | X | - | - | - |
| 12 | CLA | aB | 913 | X | - | - | - |
| 12 | CLA | aB | 914 | X | - | - | - |
| 12 | CLA | aB | 917 | X | - | - | - |
| 12 | CLA | aB | 918 | X | - | - | - |
| 12 | CLA | aB | 919 | X | - | - | - |
| 12 | CLA | aB | 922 | X | - | - | - |
| 12 | CLA | aB | 923 | X | - | - | - |
| 12 | CLA | aB | 924 | X | - | - | - |
| 12 | CLA | aB | 925 | X | - | - | - |
| 12 | CLA | aB | 926 | X | - | - | - |
| 12 | CLA | aB | 927 | X | - | - | - |
| 12 | CLA | aB | 928 | X | - | - | - |
| 12 | CLA | aB | 930 | X | - | - | - |
| 12 | CLA | aB | 931 | X | - | - | - |
| 12 | CLA | aB | 933 | X | - | - | - |
| 12 | CLA | aB | 934 | X | - | - | - |
| 12 | CLA | aB | 935 | X | - | - | - |
| 12 | CLA | aB | 936 | X | - | - | - |
| 12 | CLA | aB | 937 | X | - | - | - |
| 12 | CLA | aB | 938 | X | - | - | - |
| 12 | CLA | aB | 939 | X | - | - | - |
| 12 | CLA | aB | 949 | X | - | - | - |
| 12 | CLA | aF | 202 | X | - | - | - |
| 12 | CLA | bA | 802 | X | - | - | - |
| 12 | CLA | bA | 803 | X | - | - | - |
| 12 | CLA | bA | 804 | X | - | - | - |
| 12 | CLA | bA | 805 | X | - | - | - |
| 12 | CLA | bA | 806 | X | - | - | - |
| 12 | CLA | bA | 807 | X | - | - | - |
| 12 | CLA | bA | 808 | X | - | - | - |
| 12 | CLA | bA | 809 | X | - | - | - |
| 12 | CLA | bA | 810 | X | - | - | - |
| 12 | CLA | bA | 811 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 12 | CLA | bA | 812 | X | - | - | - |
| 12 | CLA | bA | 813 | X | - | - | - |
| 12 | CLA | bA | 814 | X | - | - | - |
| 12 | CLA | bA | 816 | X | - | - | - |
| 12 | CLA | bA | 818 | X | - | - | - |
| 12 | CLA | bA | 819 | X | - | - | - |
| 12 | CLA | bA | 820 | X | - | - | - |
| 12 | CLA | bA | 821 | X | - | - | - |
| 12 | CLA | bA | 823 | X | - | - | - |
| 12 | CLA | bA | 825 | X | - | - | - |
| 12 | CLA | bA | 826 | X | - | - | - |
| 12 | CLA | bA | 827 | X | - | - | - |
| 12 | CLA | bA | 828 | X | - | - | - |
| 12 | CLA | bA | 829 | X | - | - | - |
| 12 | CLA | bA | 830 | X | - | - | - |
| 12 | CLA | bA | 832 | X | - | - | - |
| 12 | CLA | bA | 833 | X | - | - | - |
| 12 | CLA | bA | 834 | X | - | - | - |
| 12 | CLA | bA | 835 | X | - | - | - |
| 12 | CLA | bA | 836 | X | - | - | - |
| 12 | CLA | bA | 837 | X | - | - | - |
| 12 | CLA | bA | 838 | X | - | - | - |
| 12 | CLA | bA | 839 | X | - | - | - |
| 12 | CLA | bA | 840 | X | - | - | - |
| 12 | CLA | bA | 841 | X | - | - | - |
| 12 | CLA | bA | 842 | X | - | - | - |
| 12 | CLA | bA | 843 | X | - | - | - |
| 12 | CLA | bA | 853 | X | - | - | - |
| 12 | CLA | bB | 901 | X | - | - | - |
| 12 | CLA | bB | 902 | X | - | - | - |
| 12 | CLA | bB | 903 | X | - | - | - |
| 12 | CLA | bB | 904 | X | - | - | - |
| 12 | CLA | bB | 905 | X | - | - | - |
| 12 | CLA | bB | 906 | X | - | - | - |
| 12 | CLA | bB | 907 | X | - | - | - |
| 12 | CLA | bB | 908 | X | - | - | - |
| 12 | CLA | bB | 909 | X | - | - | - |
| 12 | CLA | bB | 910 | X | - | - | - |
| 12 | CLA | bB | 912 | X | - | - | - |
| 12 | CLA | bB | 913 | X | - | - | - |
| 12 | CLA | bB | 914 | X | - | - | - |
| 12 | CLA | bB | 917 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 12 | CLA | bB | 918 | X | - | - | - |
| 12 | CLA | bB | 919 | X | - | - | - |
| 12 | CLA | bB | 922 | X | - | - | - |
| 12 | CLA | bB | 923 | X | - | - | - |
| 12 | CLA | bB | 924 | X | - | - | - |
| 12 | CLA | bB | 925 | X | - | - | - |
| 12 | CLA | bB | 926 | X | - | - | - |
| 12 | CLA | bB | 927 | X | - | - | - |
| 12 | CLA | bB | 928 | X | - | - | - |
| 12 | CLA | bB | 930 | X | - | - | - |
| 12 | CLA | bB | 931 | X | - | - | - |
| 12 | CLA | bB | 933 | X | - | - | - |
| 12 | CLA | bB | 934 | X | - | - | - |
| 12 | CLA | bB | 935 | X | - | - | - |
| 12 | CLA | bB | 936 | X | - | - | - |
| 12 | CLA | bB | 937 | X | - | - | - |
| 12 | CLA | bB | 938 | X | - | - | - |
| 12 | CLA | bB | 939 | X | - | - | - |
| 12 | CLA | bB | 949 | X | - | - | - |
| 12 | CLA | bF | 202 | X | - | - | - |
| 12 | CLA | cA | 802 | X | - | - | - |
| 12 | CLA | cA | 803 | X | - | - | - |
| 12 | CLA | cA | 804 | X | - | - | - |
| 12 | CLA | cA | 805 | X | - | - | - |
| 12 | CLA | cA | 806 | X | - | - | - |
| 12 | CLA | cA | 807 | X | - | - | - |
| 12 | CLA | cA | 808 | X | - | - | - |
| 12 | CLA | cA | 809 | X | - | - | - |
| 12 | CLA | cA | 810 | X | - | - | - |
| 12 | CLA | cA | 811 | X | - | - | - |
| 12 | CLA | cA | 812 | X | - | - | - |
| 12 | CLA | cA | 813 | X | - | - | - |
| 12 | CLA | cA | 814 | X | - | - | - |
| 12 | CLA | cA | 816 | X | - | - | - |
| 12 | CLA | cA | 818 | X | - | - | - |
| 12 | CLA | cA | 819 | X | - | - | - |
| 12 | CLA | cA | 820 | X | - | - | - |
| 12 | CLA | cA | 821 | X | - | - | - |
| 12 | CLA | cA | 823 | X | - | - | - |
| 12 | CLA | cA | 825 | X | - | - | - |
| 12 | CLA | cA | 826 | X | - | - | - |
| 12 | CLA | cA | 827 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 12 | CLA | cA | 828 | X | - | - | - |
| 12 | CLA | cA | 829 | X | - | - | - |
| 12 | CLA | cA | 830 | X | - | - | - |
| 12 | CLA | cA | 832 | X | - | - | - |
| 12 | CLA | cA | 833 | X | - | - | - |
| 12 | CLA | cA | 834 | X | - | - | - |
| 12 | CLA | cA | 835 | X | - | - | - |
| 12 | CLA | cA | 836 | X | - | - | - |
| 12 | CLA | cA | 837 | X | - | - | - |
| 12 | CLA | cA | 838 | X | - | - | - |
| 12 | CLA | cA | 839 | X | - | - | - |
| 12 | CLA | cA | 840 | X | - | - | - |
| 12 | CLA | cA | 841 | X | - | - | - |
| 12 | CLA | cA | 842 | X | - | - | - |
| 12 | CLA | cA | 843 | X | - | - | - |
| 12 | CLA | cA | 853 | X | - | - | - |
| 12 | CLA | cB | 901 | X | - | - | - |
| 12 | CLA | cB | 902 | X | - | - | - |
| 12 | CLA | cB | 903 | X | - | - | - |
| 12 | CLA | cB | 904 | X | - | - | - |
| 12 | CLA | cB | 905 | X | - | - | - |
| 12 | CLA | cB | 906 | X | - | - | - |
| 12 | CLA | cB | 907 | X | - | - | - |
| 12 | CLA | cB | 908 | X | - | - | - |
| 12 | CLA | cB | 909 | X | - | - | - |
| 12 | CLA | cB | 910 | X | - | - | - |
| 12 | CLA | cB | 912 | X | - | - | - |
| 12 | CLA | cB | 913 | X | - | - | - |
| 12 | CLA | cB | 914 | X | - | - | - |
| 12 | CLA | cB | 917 | X | - | - | - |
| 12 | CLA | cB | 918 | X | - | - | - |
| 12 | CLA | cB | 919 | X | - | - | - |
| 12 | CLA | cB | 922 | X | - | - | - |
| 12 | CLA | cB | 923 | X | - | - | - |
| 12 | CLA | cB | 924 | X | - | - | - |
| 12 | CLA | cB | 925 | X | - | - | - |
| 12 | CLA | cB | 926 | X | - | - | - |
| 12 | CLA | cB | 927 | X | - | - | - |
| 12 | CLA | cB | 928 | X | - | - | - |
| 12 | CLA | cB | 930 | X | - | - | - |
| 12 | CLA | cB | 931 | X | - | - | - |
| 12 | CLA | cB | 933 | X | - | - | - |

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| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|------------|-------------|--------------|------------|------------------|-----------------|----------------|-------------------------|
| 12 | CLA | cB | 934 | X | - | - | - |
| 12 | CLA | cB | 935 | X | - | - | - |
| 12 | CLA | cB | 936 | X | - | - | - |
| 12 | CLA | cB | 937 | X | - | - | - |
| 12 | CLA | cB | 938 | X | - | - | - |
| 12 | CLA | cB | 939 | X | - | - | - |
| 12 | CLA | cB | 949 | X | - | - | - |
| 12 | CLA | cF | 202 | X | - | - | - |

2 Entry composition [i](#)

There are 18 unique types of molecules in this entry. The entry contains 67641 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|---------------|-----------|-----------|-----------|---------|---------|-------|
| | | | Total | C | N | O | S | | |
| 1 | aA | 772 | Total 6038 | C 3957 | N 1031 | O 1025 | S 25 | 0 | 0 |
| 1 | bA | 772 | Total 6038 | C 3957 | N 1031 | O 1025 | S 25 | 0 | 0 |
| 1 | cA | 772 | Total 6038 | C 3957 | N 1031 | O 1025 | S 25 | 0 | 0 |

- Molecule 2 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|---------------|-----------|----------|----------|---------|---------|-------|
| | | | Total | C | N | O | S | | |
| 2 | aB | 725 | Total 5701 | C 3761 | N 954 | O 968 | S 18 | 0 | 0 |
| 2 | bB | 725 | Total 5701 | C 3761 | N 954 | O 968 | S 18 | 0 | 0 |
| 2 | cB | 725 | Total 5701 | C 3761 | N 954 | O 968 | S 18 | 0 | 0 |

- Molecule 3 is a protein called Photosystem I iron-sulfur center.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|--------------|----------|----------|----------|---------|---------|-------|
| | | | Total | C | N | O | S | | |
| 3 | aC | 80 | Total 599 | C 368 | N 103 | O 118 | S 10 | 0 | 0 |
| 3 | bC | 80 | Total 599 | C 368 | N 103 | O 118 | S 10 | 0 | 0 |
| 3 | cC | 80 | Total 599 | C 368 | N 103 | O 118 | S 10 | 0 | 0 |

- Molecule 4 is a protein called Photosystem I reaction center subunit II.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|---------------|----------|----------|----------|--------|---------|-------|
| | | | Total | C | N | O | S | | |
| 4 | aD | 133 | Total 1038 | C 660 | N 180 | O 194 | S 4 | 0 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 4 | bD | 133 | Total | C | N | O | S | 0 | 0 |
| | | | 1038 | 660 | 180 | 194 | 4 | | |
| 4 | cD | 133 | Total | C | N | O | S | 0 | 0 |
| | | | 1038 | 660 | 180 | 194 | 4 | | |

- Molecule 5 is a protein called Photosystem I reaction center subunit IV.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|-------|
| 5 | aE | 62 | Total | C | N | O | 0 | 0 |
| | | | 507 | 321 | 87 | 99 | | |
| 5 | bE | 62 | Total | C | N | O | 0 | 0 |
| | | | 507 | 321 | 87 | 99 | | |
| 5 | cE | 62 | Total | C | N | O | 0 | 0 |
| | | | 507 | 321 | 87 | 99 | | |

- Molecule 6 is a protein called Photosystem I reaction center subunit III.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| 6 | aF | 151 | Total | C | N | O | S | 0 | 0 |
| | | | 1182 | 761 | 200 | 218 | 3 | | |
| 6 | bF | 151 | Total | C | N | O | S | 0 | 0 |
| | | | 1182 | 761 | 200 | 218 | 3 | | |
| 6 | cF | 151 | Total | C | N | O | S | 0 | 0 |
| | | | 1182 | 761 | 200 | 218 | 3 | | |

- Molecule 7 is a protein called Photosystem I reaction center subunit Z.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|-------|
| 7 | aI | 31 | Total | C | N | O | S | 0 | 0 |
| | | | 240 | 164 | 35 | 40 | 1 | | |
| 7 | bI | 31 | Total | C | N | O | S | 0 | 0 |
| | | | 240 | 164 | 35 | 40 | 1 | | |
| 7 | cI | 31 | Total | C | N | O | S | 0 | 0 |
| | | | 240 | 164 | 35 | 40 | 1 | | |

- Molecule 8 is a protein called Unknown protein.

| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|----|----|----|---------|-------|
| 8 | aJ | 33 | Total | C | N | O | 0 | 0 |
| | | | 164 | 98 | 33 | 33 | | |
| 8 | bJ | 33 | Total | C | N | O | 0 | 0 |
| | | | 164 | 98 | 33 | 33 | | |

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| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|----|----|----|---------|-------|
| | | | Total | C | N | O | | |
| 8 | cJ | 33 | 164 | 98 | 33 | 33 | 0 | 0 |

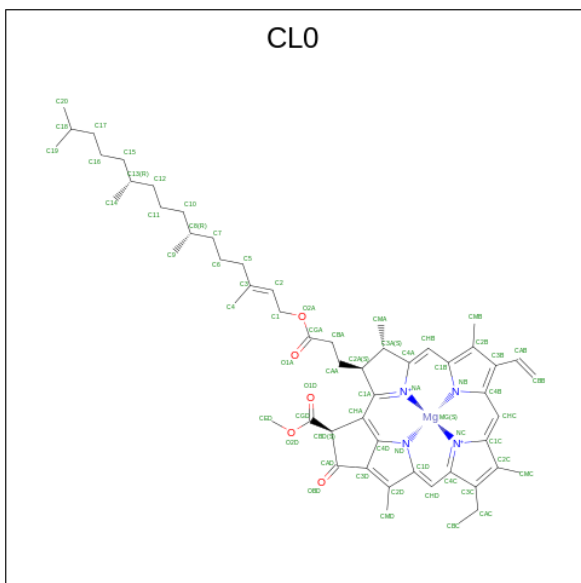
- Molecule 9 is a protein called Photosystem I reaction center subunit XI.

| Mol | Chain | Residues | Atoms | | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|-------|
| | | | Total | C | N | O | S | | |
| 9 | aL | 129 | 974 | 641 | 162 | 169 | 2 | 0 | 0 |
| 9 | bL | 129 | 974 | 641 | 162 | 169 | 2 | 0 | 0 |
| 9 | cL | 129 | 974 | 641 | 162 | 169 | 2 | 0 | 0 |

- Molecule 10 is a protein called Photosystem I reaction center subunit XII.

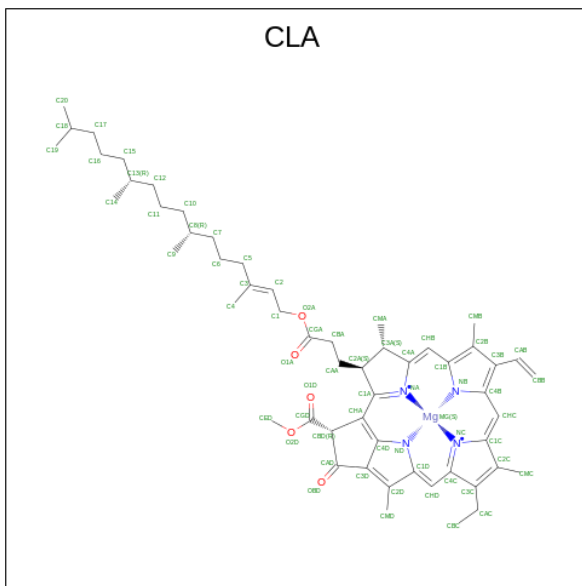
| Mol | Chain | Residues | Atoms | | | | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|-------|
| | | | Total | C | N | O | | |
| 10 | aM | 29 | 190 | 127 | 30 | 33 | 0 | 0 |
| 10 | bM | 29 | 190 | 127 | 30 | 33 | 0 | 0 |
| 10 | cM | 29 | 190 | 127 | 30 | 33 | 0 | 0 |

- Molecule 11 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula: $C_{55}H_{72}MgN_4O_5$).



| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|
| 11 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 11 | bA | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |
| 11 | cA | 1 | Total | C | Mg | N | O | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | |

- Molecule 12 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|------|----|-----|-----|---------|
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |
| 12 | aA | 1 | Total | C | Mg | N | O | 0 |
| | | | 2396 | 1956 | 44 | 176 | 220 | |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|---------------|-----------|----------|----------|----------|---------|
| | | | Total | C | Mg | N | O | |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aA | 1 | Total 2396 | C 1956 | Mg 44 | N 176 | O 220 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|---------------|-----------|----------|----------|----------|---------|
| | | | Total | C | Mg | N | O | |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | aF | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 |
| 12 | aL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |
| 12 | aL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |
| 12 | aL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |
| 12 | bA | 1 | Total 2351 | C 1921 | Mg 43 | N 172 | O 215 | 0 |
| 12 | bA | 1 | Total 2351 | C 1921 | Mg 43 | N 172 | O 215 | 0 |
| 12 | bA | 1 | Total 2351 | C 1921 | Mg 43 | N 172 | O 215 | 0 |
| 12 | bA | 1 | Total 2351 | C 1921 | Mg 43 | N 172 | O 215 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|-------|------|----|-----|-----|---------|
| | | | Total | C | Mg | N | O | |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bA | 1 | 2351 | 1921 | 43 | 172 | 215 | 0 |
| 12 | bB | 1 | 2144 | 1736 | 41 | 164 | 203 | 0 |
| 12 | bB | 1 | 2144 | 1736 | 41 | 164 | 203 | 0 |
| 12 | bB | 1 | 2144 | 1736 | 41 | 164 | 203 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|---------------|-----------|----------|----------|----------|---------|
| | | | Total | C | Mg | N | O | |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bB | 1 | Total 2144 | C 1736 | Mg 41 | N 164 | O 203 | 0 |
| 12 | bF | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 |
| 12 | bL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |
| 12 | bL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |
| 12 | bL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |

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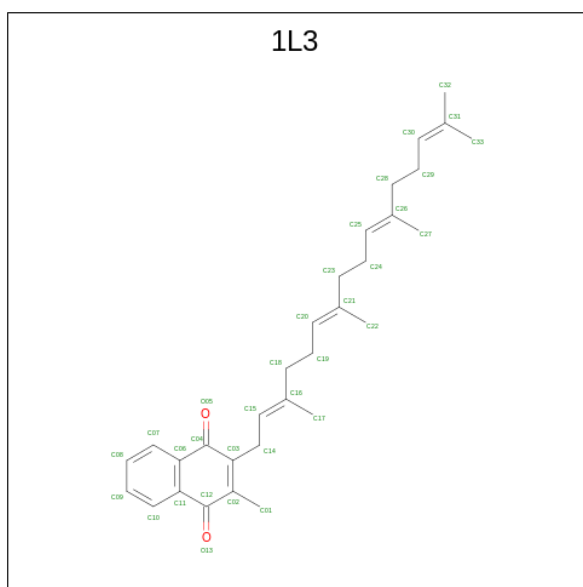
| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|---------------|-----------|----------|----------|----------|---------|
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cB | 1 | Total 2099 | C 1701 | Mg 40 | N 160 | O 198 | 0 |
| 12 | cF | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 |

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| Mol | Chain | Residues | Atoms | | | | | AltConf |
|-----|-------|----------|--------------|----------|---------|---------|---------|---------|
| | | | Total | C | Mg | N | O | |
| 12 | cL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |
| 12 | cL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |
| 12 | cL | 1 | Total 143 | C 113 | Mg 3 | N 12 | O 15 | 0 |

- Molecule 13 is Menaquinone-4 (three-letter code: 1L3) (formula: $C_{31}H_{40}O_2$).



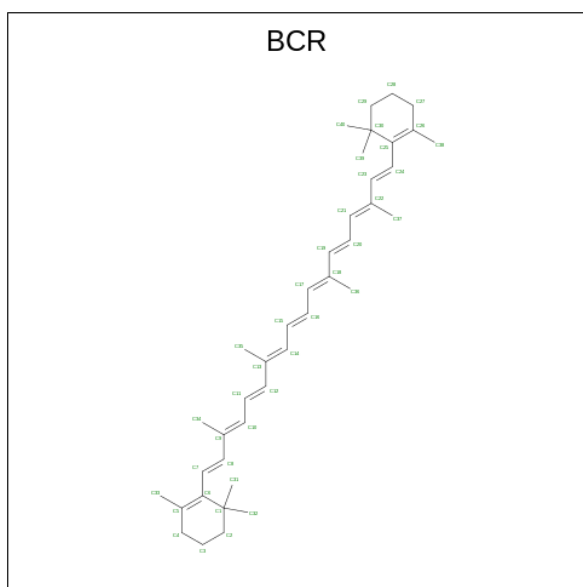
| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------------|---------|--------|---------|
| | | | Total | C | O | |
| 13 | aA | 1 | Total 33 | C 31 | O 2 | 0 |
| 13 | aB | 1 | Total 33 | C 31 | O 2 | 0 |
| 13 | bA | 1 | Total 33 | C 31 | O 2 | 0 |
| 13 | bB | 1 | Total 33 | C 31 | O 2 | 0 |
| 13 | cA | 1 | Total 33 | C 31 | O 2 | 0 |
| 13 | cB | 1 | Total 33 | C 31 | O 2 | 0 |

- Molecule 14 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe_4S_4).



| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|---|---------|
| | | | Total | Fe | S | |
| 14 | aA | 1 | 8 | 4 | 4 | 0 |
| 14 | aC | 1 | 16 | 8 | 8 | 0 |
| 14 | aC | 1 | 16 | 8 | 8 | 0 |
| 14 | bA | 1 | 8 | 4 | 4 | 0 |
| 14 | bC | 1 | 16 | 8 | 8 | 0 |
| 14 | bC | 1 | 16 | 8 | 8 | 0 |
| 14 | cA | 1 | 8 | 4 | 4 | 0 |
| 14 | cC | 1 | 16 | 8 | 8 | 0 |
| 14 | cC | 1 | 16 | 8 | 8 | 0 |

- Molecule 15 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



| Mol | Chain | Residues | Atoms | AltConf |
|-----|-------|----------|--------------------|---------|
| 15 | aA | 1 | Total C 200 200 | 0 |
| 15 | aA | 1 | Total C 200 200 | 0 |
| 15 | aA | 1 | Total C 200 200 | 0 |
| 15 | aA | 1 | Total C 200 200 | 0 |
| 15 | aA | 1 | Total C 200 200 | 0 |
| 15 | aB | 1 | Total C 240 240 | 0 |
| 15 | aB | 1 | Total C 240 240 | 0 |
| 15 | aB | 1 | Total C 240 240 | 0 |
| 15 | aB | 1 | Total C 240 240 | 0 |
| 15 | aB | 1 | Total C 240 240 | 0 |
| 15 | aB | 1 | Total C 240 240 | 0 |
| 15 | aB | 1 | Total C 240 240 | 0 |
| 15 | aF | 1 | Total C 120 120 | 0 |
| 15 | aF | 1 | Total C 120 120 | 0 |
| 15 | aF | 1 | Total C 120 120 | 0 |

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| Mol | Chain | Residues | Atoms | AltConf |
|-----|-------|----------|--------------------|---------|
| 15 | aI | 1 | Total C 40 40 | 0 |
| 15 | aJ | 1 | Total C 40 40 | 0 |
| 15 | aL | 1 | Total C 120 120 | 0 |
| 15 | aL | 1 | Total C 120 120 | 0 |
| 15 | aL | 1 | Total C 120 120 | 0 |
| 15 | aM | 1 | Total C 40 40 | 0 |
| 15 | bA | 1 | Total C 200 200 | 0 |
| 15 | bA | 1 | Total C 200 200 | 0 |
| 15 | bA | 1 | Total C 200 200 | 0 |
| 15 | bA | 1 | Total C 200 200 | 0 |
| 15 | bA | 1 | Total C 200 200 | 0 |
| 15 | bB | 1 | Total C 240 240 | 0 |
| 15 | bB | 1 | Total C 240 240 | 0 |
| 15 | bB | 1 | Total C 240 240 | 0 |
| 15 | bB | 1 | Total C 240 240 | 0 |
| 15 | bB | 1 | Total C 240 240 | 0 |
| 15 | bB | 1 | Total C 240 240 | 0 |
| 15 | bF | 1 | Total C 120 120 | 0 |
| 15 | bF | 1 | Total C 120 120 | 0 |
| 15 | bF | 1 | Total C 120 120 | 0 |
| 15 | bI | 1 | Total C 40 40 | 0 |

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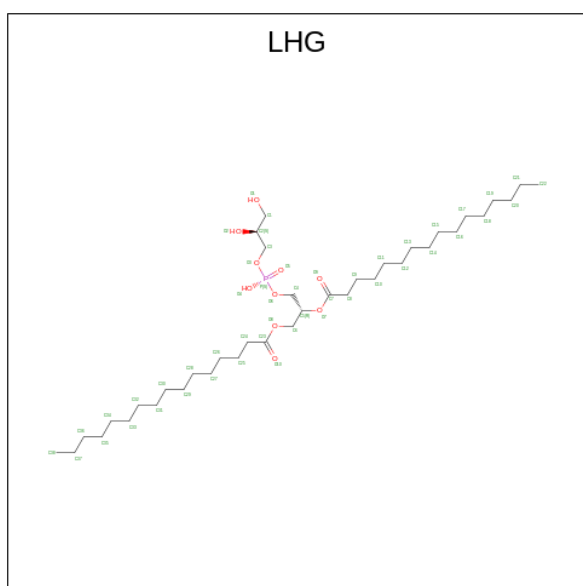
| Mol | Chain | Residues | Atoms | AltConf |
|-----|-------|----------|--------------------|---------|
| 15 | bJ | 1 | Total C 40 40 | 0 |
| 15 | bL | 1 | Total C 120 120 | 0 |
| 15 | bL | 1 | Total C 120 120 | 0 |
| 15 | bL | 1 | Total C 120 120 | 0 |
| 15 | bM | 1 | Total C 40 40 | 0 |
| 15 | cA | 1 | Total C 200 200 | 0 |
| 15 | cA | 1 | Total C 200 200 | 0 |
| 15 | cA | 1 | Total C 200 200 | 0 |
| 15 | cA | 1 | Total C 200 200 | 0 |
| 15 | cA | 1 | Total C 200 200 | 0 |
| 15 | cA | 1 | Total C 200 200 | 0 |
| 15 | cB | 1 | Total C 240 240 | 0 |
| 15 | cB | 1 | Total C 240 240 | 0 |
| 15 | cB | 1 | Total C 240 240 | 0 |
| 15 | cB | 1 | Total C 240 240 | 0 |
| 15 | cB | 1 | Total C 240 240 | 0 |
| 15 | cB | 1 | Total C 240 240 | 0 |
| 15 | cF | 1 | Total C 120 120 | 0 |
| 15 | cF | 1 | Total C 120 120 | 0 |
| 15 | cF | 1 | Total C 120 120 | 0 |
| 15 | cI | 1 | Total C 40 40 | 0 |
| 15 | cJ | 1 | Total C 40 40 | 0 |

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| Mol | Chain | Residues | Atoms | | AltConf |
|-----|-------|----------|-------|-----|---------|
| 15 | cL | 1 | Total | C | 0 |
| | | | 120 | 120 | |
| 15 | cL | 1 | Total | C | 0 |
| | | | 120 | 120 | |
| 15 | cL | 1 | Total | C | 0 |
| | | | 120 | 120 | |
| 15 | cM | 1 | Total | C | 0 |
| | | | 40 | 40 | |

- Molecule 16 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: C₃₈H₇₅O₁₀P).



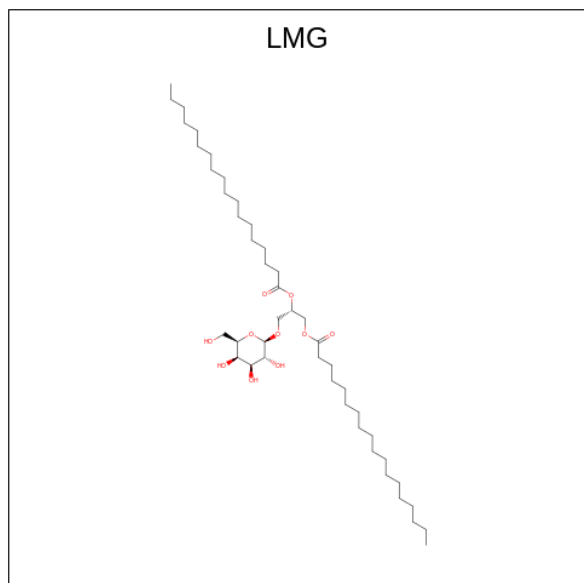
| Mol | Chain | Residues | Atoms | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---------|
| 16 | aA | 1 | Total | C | O | P | 0 |
| | | | 76 | 54 | 20 | 2 | |
| 16 | aA | 1 | Total | C | O | P | 0 |
| | | | 76 | 54 | 20 | 2 | |
| 16 | aB | 1 | Total | C | O | P | 0 |
| | | | 23 | 12 | 10 | 1 | |
| 16 | bA | 1 | Total | C | O | P | 0 |
| | | | 76 | 54 | 20 | 2 | |
| 16 | bA | 1 | Total | C | O | P | 0 |
| | | | 76 | 54 | 20 | 2 | |
| 16 | bB | 1 | Total | C | O | P | 0 |
| | | | 23 | 12 | 10 | 1 | |
| 16 | cA | 1 | Total | C | O | P | 0 |
| | | | 76 | 54 | 20 | 2 | |

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| Mol | Chain | Residues | Atoms | | | | AltConf |
|-----|-------|----------|-------|----|----|---|---------|
| | | | Total | C | O | P | |
| 16 | cA | 1 | 76 | 54 | 20 | 2 | 0 |
| 16 | cB | 1 | 23 | 12 | 10 | 1 | 0 |

- Molecule 17 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



| Mol | Chain | Residues | Atoms | | | AltConf |
|-----|-------|----------|-------|----|----|---------|
| | | | Total | C | O | |
| 17 | aB | 1 | 43 | 33 | 10 | 0 |
| 17 | bB | 1 | 43 | 33 | 10 | 0 |
| 17 | cB | 1 | 43 | 33 | 10 | 0 |

- Molecule 18 is water.

| Mol | Chain | Residues | Atoms | | AltConf |
|-----|-------|----------|-------|----|---------|
| | | | Total | O | |
| 18 | aA | 45 | 45 | 45 | 0 |
| 18 | aB | 67 | 67 | 67 | 0 |
| 18 | aC | 14 | 14 | 14 | 0 |
| 18 | aD | 2 | 2 | 2 | 0 |

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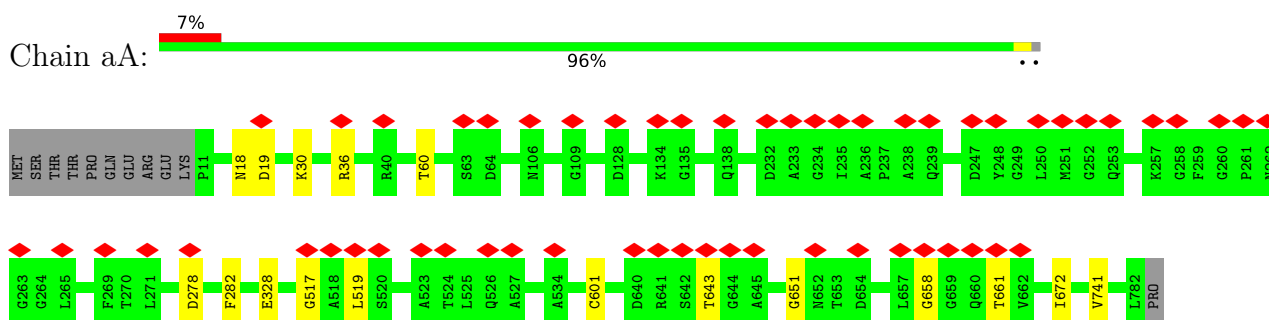
Continued from previous page...

| Mol | Chain | Residues | Atoms | | AltConf |
|-----|-------|----------|-------------|---------|---------|
| 18 | aE | 3 | Total 3 | O 3 | 0 |
| 18 | aF | 1 | Total 1 | O 1 | 0 |
| 18 | aJ | 1 | Total 1 | O 1 | 0 |
| 18 | aL | 1 | Total 1 | O 1 | 0 |
| 18 | bA | 45 | Total 45 | O 45 | 0 |
| 18 | bB | 67 | Total 67 | O 67 | 0 |
| 18 | bC | 14 | Total 14 | O 14 | 0 |
| 18 | bD | 2 | Total 2 | O 2 | 0 |
| 18 | bE | 3 | Total 3 | O 3 | 0 |
| 18 | bF | 1 | Total 1 | O 1 | 0 |
| 18 | bJ | 1 | Total 1 | O 1 | 0 |
| 18 | bL | 1 | Total 1 | O 1 | 0 |
| 18 | cA | 45 | Total 45 | O 45 | 0 |
| 18 | cB | 67 | Total 67 | O 67 | 0 |
| 18 | cC | 14 | Total 14 | O 14 | 0 |
| 18 | cD | 2 | Total 2 | O 2 | 0 |
| 18 | cE | 3 | Total 3 | O 3 | 0 |
| 18 | cF | 1 | Total 1 | O 1 | 0 |
| 18 | cJ | 1 | Total 1 | O 1 | 0 |
| 18 | cL | 1 | Total 1 | O 1 | 0 |

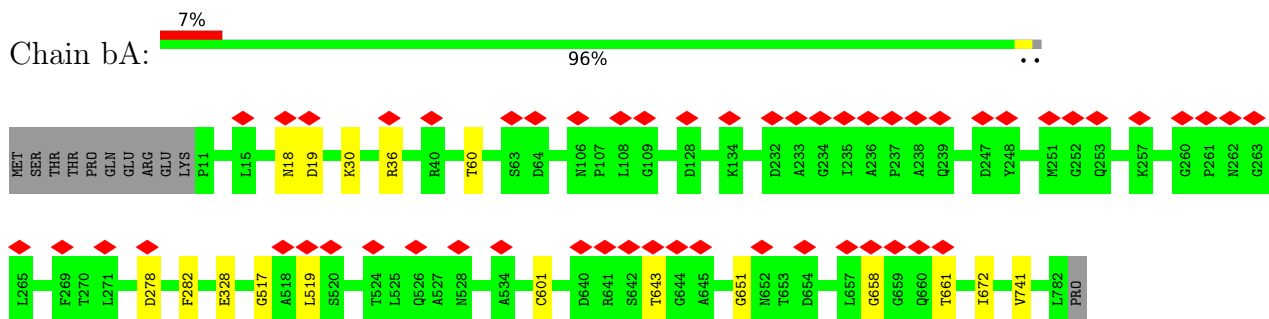
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

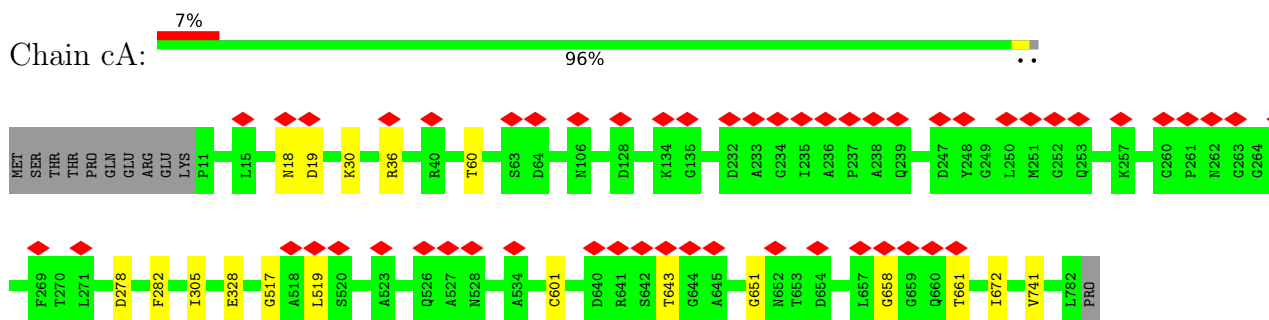
- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1



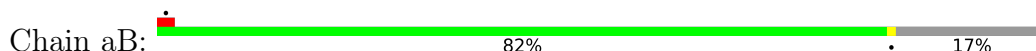
- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

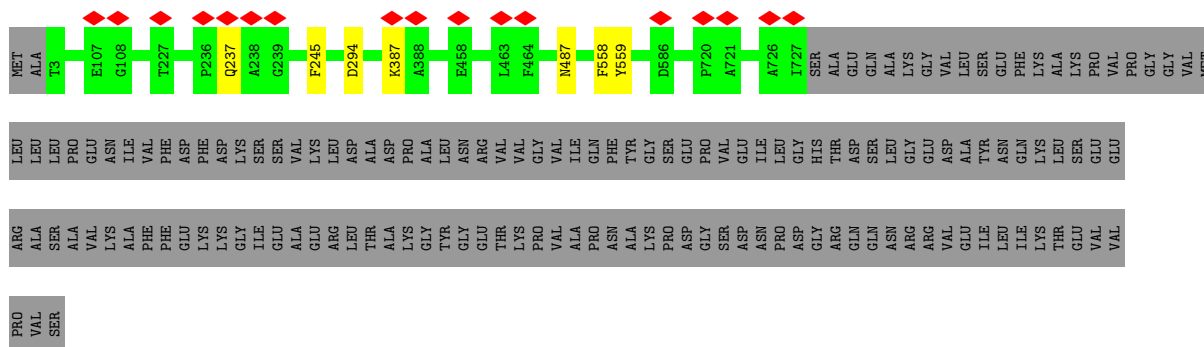


- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

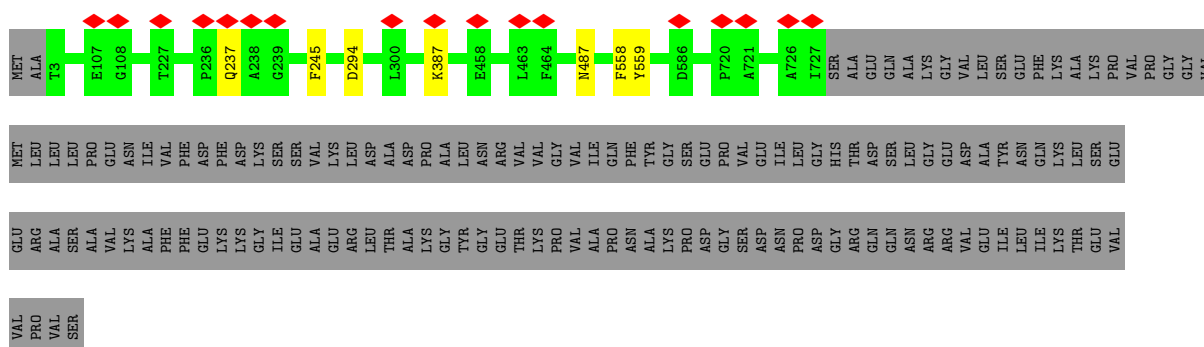
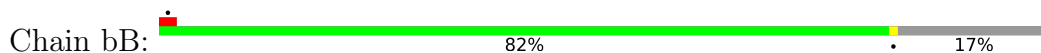


- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

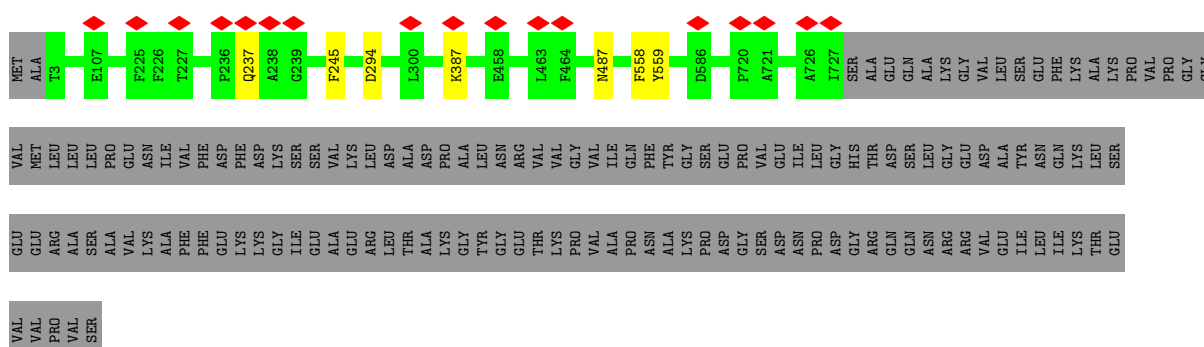
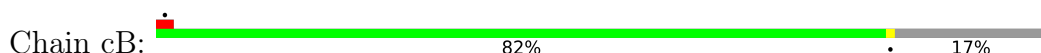




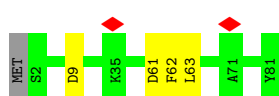
• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2



• Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

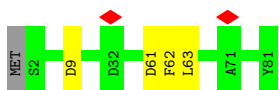


• Molecule 3: Photosystem I iron-sulfur center



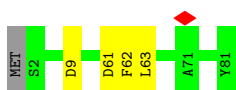
• Molecule 3: Photosystem I iron-sulfur center

Chain bC:  94% 5%




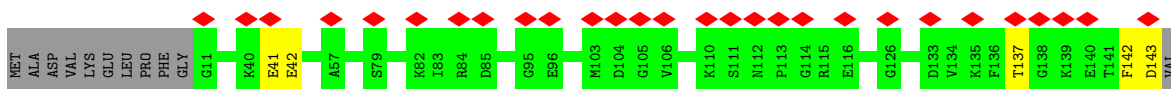
- Molecule 3: Photosystem I iron-sulfur center

Chain cC:  94% 5%

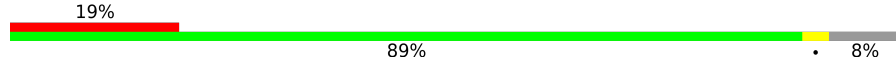


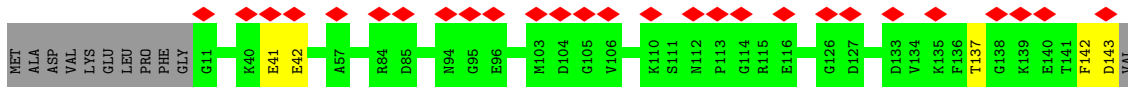
- Molecule 4: Photosystem I reaction center subunit II

Chain aD:  19% 89% 8%




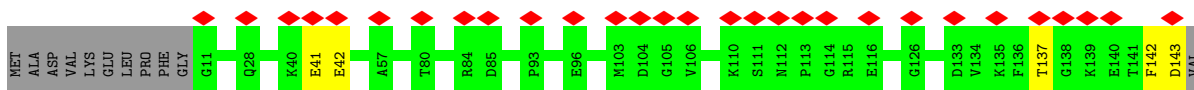
- Molecule 4: Photosystem I reaction center subunit II

Chain bD:  19% 89% 8%

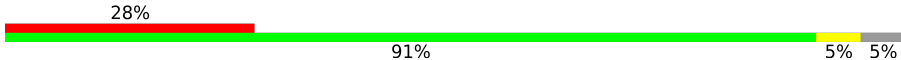


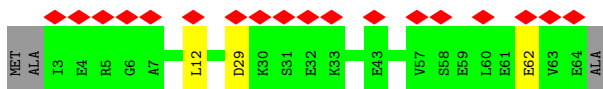
- Molecule 4: Photosystem I reaction center subunit II

Chain cD:  20% 89% 8%

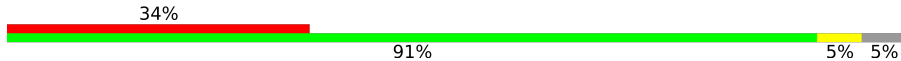


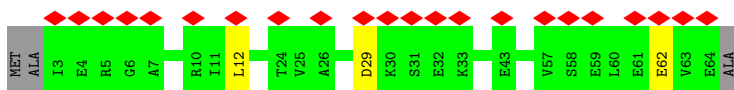
- Molecule 5: Photosystem I reaction center subunit IV

Chain aE:  28% 91% 5% 5%

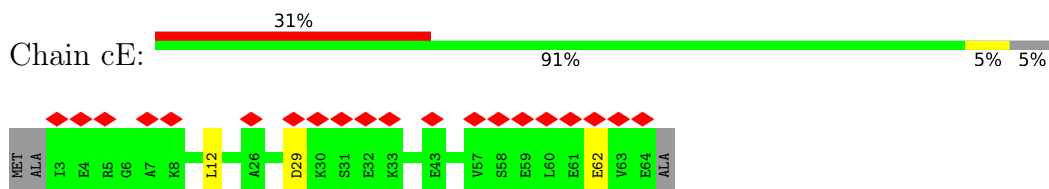


- Molecule 5: Photosystem I reaction center subunit IV

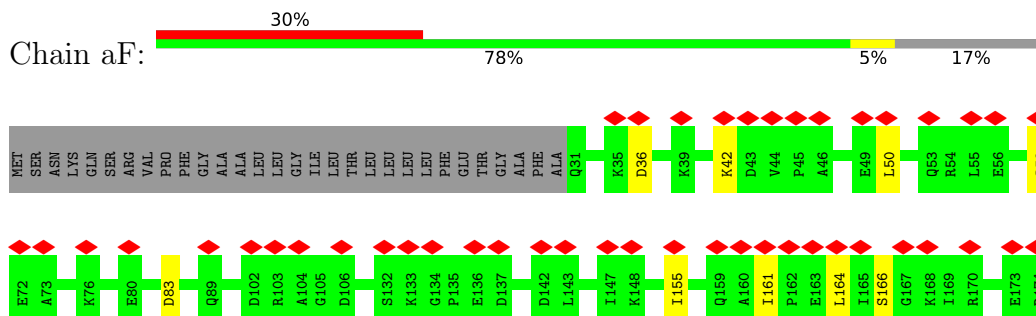
Chain bE:  34% 91% 5% 5%



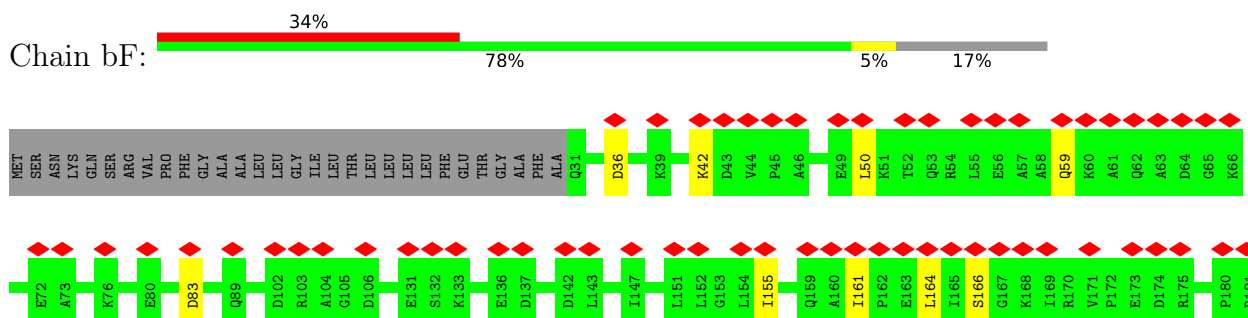
- Molecule 5: Photosystem I reaction center subunit IV



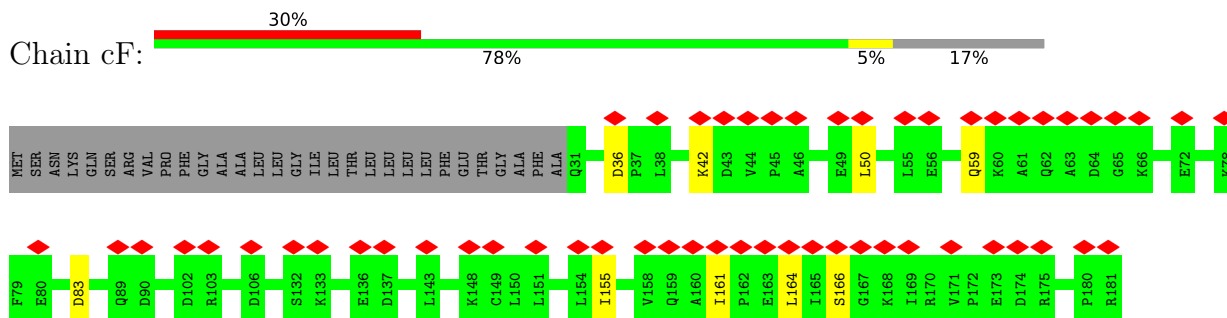
- Molecule 6: Photosystem I reaction center subunit III



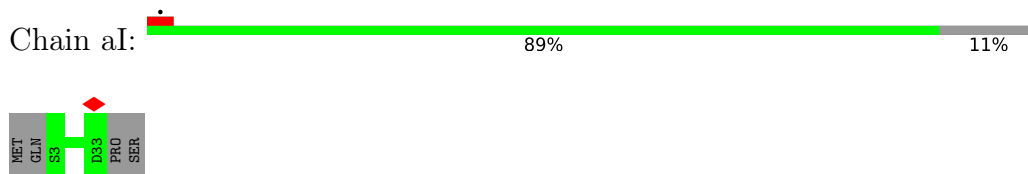
- Molecule 6: Photosystem I reaction center subunit III



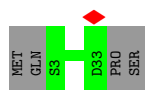
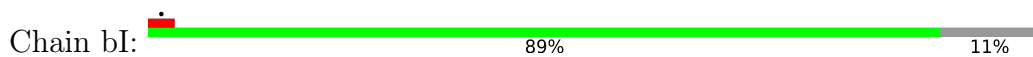
- Molecule 6: Photosystem I reaction center subunit III



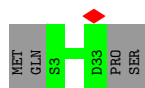
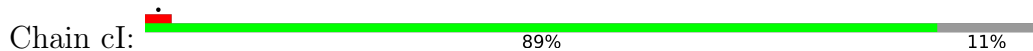
- Molecule 7: Photosystem I reaction center subunit Z



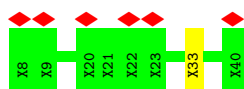
- Molecule 7: Photosystem I reaction center subunit Z



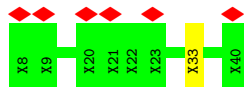
• Molecule 7: Photosystem I reaction center subunit Z



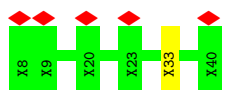
• Molecule 8: Unknown protein



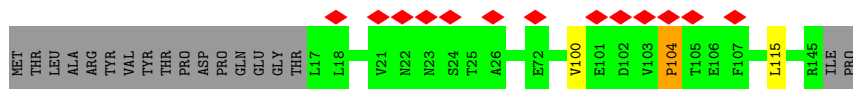
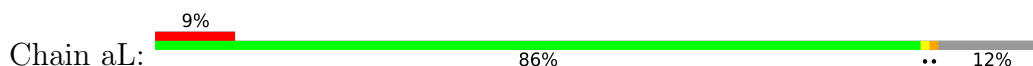
• Molecule 8: Unknown protein



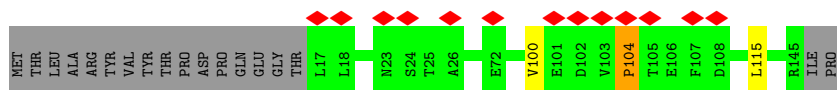
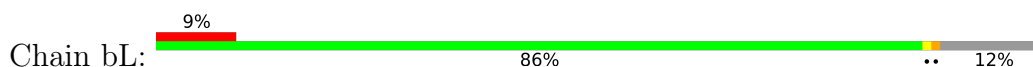
• Molecule 8: Unknown protein



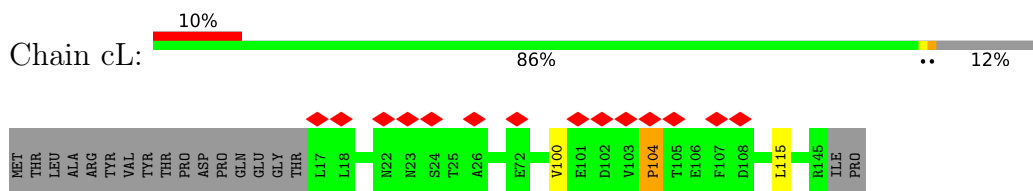
• Molecule 9: Photosystem I reaction center subunit XI



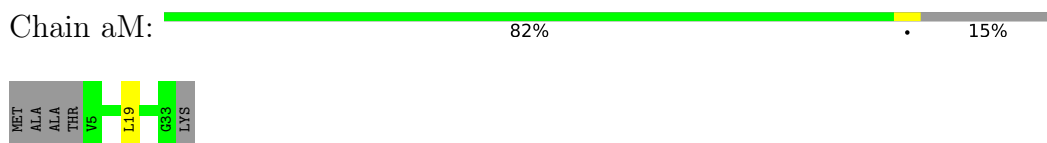
• Molecule 9: Photosystem I reaction center subunit XI



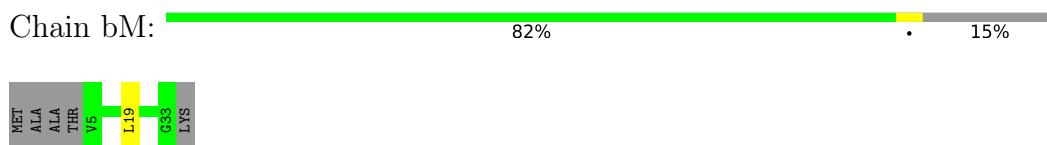
- Molecule 9: Photosystem I reaction center subunit XI



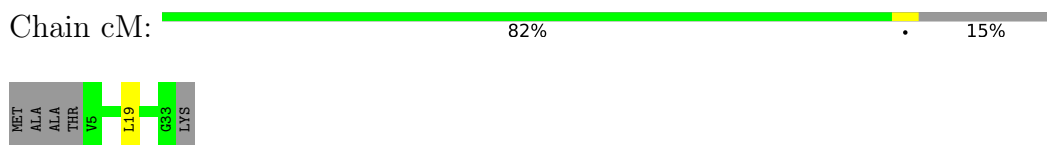
- Molecule 10: Photosystem I reaction center subunit XII



- Molecule 10: Photosystem I reaction center subunit XII



- Molecule 10: Photosystem I reaction center subunit XII



4 Experimental information

| Property | Value | Source |
|--------------------------------------|---|-----------|
| EM reconstruction method | SINGLE PARTICLE | Depositor |
| Imposed symmetry | POINT, C3 | Depositor |
| Number of particles used | 261743 | Depositor |
| Resolution determination method | FSC 0.143 CUT-OFF | Depositor |
| CTF correction method | PHASE FLIPPING AND AMPLITUDE CORRECTION | Depositor |
| Microscope | JEOL CRYO ARM 300 | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 70.22 | Depositor |
| Minimum defocus (nm) | Not provided | |
| Maximum defocus (nm) | Not provided | |
| Magnification | Not provided | |
| Image detector | GATAN K3 (6k x 4k) | Depositor |
| Maximum map value | 0.465 | Depositor |
| Minimum map value | -0.239 | Depositor |
| Average map value | 0.000 | Depositor |
| Map value standard deviation | 0.009 | Depositor |
| Recommended contour level | 0.045 | Depositor |
| Map size (Å) | 329.2, 329.2, 329.2 | wwPDB |
| Map dimensions | 400, 400, 400 | wwPDB |
| Map angles (°) | 90.0, 90.0, 90.0 | wwPDB |
| Pixel spacing (Å) | 0.823, 0.823, 0.823 | Depositor |

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: SF4, CL0, LMG, CLA, 1L3, LHG, BCR

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|---------|-------------|-----------------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| 1 | aA | 0.35 | 0/6244 | 0.53 | 3/8520 (0.0%) |
| 1 | bA | 0.35 | 0/6244 | 0.53 | 3/8520 (0.0%) |
| 1 | cA | 0.35 | 0/6244 | 0.53 | 3/8520 (0.0%) |
| 2 | aB | 0.36 | 0/5911 | 0.51 | 0/8084 |
| 2 | bB | 0.36 | 0/5911 | 0.51 | 0/8084 |
| 2 | cB | 0.36 | 0/5911 | 0.51 | 0/8084 |
| 3 | aC | 0.36 | 0/609 | 0.59 | 1/825 (0.1%) |
| 3 | bC | 0.36 | 0/609 | 0.59 | 1/825 (0.1%) |
| 3 | cC | 0.36 | 0/609 | 0.59 | 1/825 (0.1%) |
| 4 | aD | 0.36 | 0/1061 | 0.51 | 0/1434 |
| 4 | bD | 0.36 | 0/1061 | 0.51 | 0/1434 |
| 4 | cD | 0.36 | 0/1061 | 0.51 | 0/1434 |
| 5 | aE | 0.37 | 0/515 | 0.56 | 0/694 |
| 5 | bE | 0.37 | 0/515 | 0.56 | 0/694 |
| 5 | cE | 0.37 | 0/515 | 0.56 | 0/694 |
| 6 | aF | 0.31 | 0/1208 | 0.54 | 0/1638 |
| 6 | bF | 0.31 | 0/1208 | 0.54 | 0/1638 |
| 6 | cF | 0.31 | 0/1208 | 0.54 | 0/1638 |
| 7 | aI | 0.32 | 0/245 | 0.58 | 0/336 |
| 7 | bI | 0.32 | 0/245 | 0.58 | 0/336 |
| 7 | cI | 0.32 | 0/245 | 0.58 | 0/336 |
| 9 | aL | 0.35 | 0/997 | 0.56 | 0/1357 |
| 9 | bL | 0.35 | 0/997 | 0.56 | 0/1357 |
| 9 | cL | 0.35 | 0/997 | 0.56 | 0/1357 |
| 10 | aM | 0.32 | 0/190 | 0.48 | 0/260 |
| 10 | bM | 0.32 | 0/190 | 0.48 | 0/260 |
| 10 | cM | 0.32 | 0/190 | 0.48 | 0/260 |
| All | All | 0.35 | 0/50940 | 0.53 | 12/69444 (0.0%) |

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected

by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

| Mol | Chain | #Chirality outliers | #Planarity outliers |
|-----|-------|---------------------|---------------------|
| 3 | aC | 0 | 1 |
| 3 | bC | 0 | 1 |
| 3 | cC | 0 | 1 |
| 8 | aJ | 0 | 1 |
| 8 | bJ | 0 | 1 |
| 8 | cJ | 0 | 1 |
| 9 | aL | 0 | 1 |
| 9 | bL | 0 | 1 |
| 9 | cL | 0 | 1 |
| All | All | 0 | 9 |

There are no bond length outliers.

All (12) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-----------|------|-------------|----------|
| 1 | aA | 517 | GLY | C-N-CA | 7.08 | 139.41 | 121.70 |
| 1 | cA | 517 | GLY | C-N-CA | 7.08 | 139.39 | 121.70 |
| 1 | bA | 517 | GLY | C-N-CA | 7.07 | 139.38 | 121.70 |
| 1 | aA | 658 | GLY | N-CA-C | 5.72 | 127.40 | 113.10 |
| 1 | cA | 658 | GLY | N-CA-C | 5.72 | 127.39 | 113.10 |
| 1 | bA | 658 | GLY | N-CA-C | 5.70 | 127.34 | 113.10 |
| 3 | aC | 9 | ASP | CB-CG-OD1 | 5.29 | 123.06 | 118.30 |
| 3 | cC | 9 | ASP | CB-CG-OD1 | 5.28 | 123.05 | 118.30 |
| 1 | cA | 651 | GLY | N-CA-C | 5.27 | 126.27 | 113.10 |
| 1 | aA | 651 | GLY | N-CA-C | 5.26 | 126.26 | 113.10 |
| 1 | bA | 651 | GLY | N-CA-C | 5.26 | 126.25 | 113.10 |
| 3 | bC | 9 | ASP | CB-CG-OD1 | 5.23 | 123.01 | 118.30 |

There are no chirality outliers.

All (9) planarity outliers are listed below:

| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|---------|
| 3 | aC | 61 | ASP | Peptide |
| 8 | aJ | 33 | UNK | Peptide |
| 9 | aL | 104 | PRO | Peptide |
| 3 | bC | 61 | ASP | Peptide |
| 8 | bJ | 33 | UNK | Peptide |
| 9 | bL | 104 | PRO | Peptide |
| 3 | cC | 61 | ASP | Peptide |

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| Mol | Chain | Res | Type | Group |
|-----|-------|-----|------|---------|
| 8 | cJ | 33 | UNK | Peptide |
| 9 | cL | 104 | PRO | Peptide |

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1 | aA | 6038 | 0 | 5897 | 0 | 0 |
| 1 | bA | 6038 | 0 | 5897 | 0 | 0 |
| 1 | cA | 6038 | 0 | 5897 | 0 | 0 |
| 2 | aB | 5701 | 0 | 5519 | 0 | 0 |
| 2 | bB | 5701 | 0 | 5519 | 0 | 0 |
| 2 | cB | 5701 | 0 | 5519 | 0 | 0 |
| 3 | aC | 599 | 0 | 579 | 0 | 0 |
| 3 | bC | 599 | 0 | 579 | 0 | 0 |
| 3 | cC | 599 | 0 | 579 | 0 | 0 |
| 4 | aD | 1038 | 0 | 1039 | 0 | 0 |
| 4 | bD | 1038 | 0 | 1039 | 0 | 0 |
| 4 | cD | 1038 | 0 | 1039 | 0 | 0 |
| 5 | aE | 507 | 0 | 504 | 0 | 0 |
| 5 | bE | 507 | 0 | 504 | 0 | 0 |
| 5 | cE | 507 | 0 | 504 | 0 | 0 |
| 6 | aF | 1182 | 0 | 1207 | 0 | 0 |
| 6 | bF | 1182 | 0 | 1207 | 0 | 0 |
| 6 | cF | 1182 | 0 | 1207 | 0 | 0 |
| 7 | aI | 240 | 0 | 255 | 0 | 0 |
| 7 | bI | 240 | 0 | 255 | 0 | 0 |
| 7 | cI | 240 | 0 | 255 | 0 | 0 |
| 8 | aJ | 164 | 0 | 35 | 0 | 0 |
| 8 | bJ | 164 | 0 | 35 | 0 | 0 |
| 8 | cJ | 164 | 0 | 35 | 0 | 0 |
| 9 | aL | 974 | 0 | 998 | 0 | 0 |
| 9 | bL | 974 | 0 | 998 | 0 | 0 |
| 9 | cL | 974 | 0 | 998 | 0 | 0 |
| 10 | aM | 190 | 0 | 215 | 0 | 0 |
| 10 | bM | 190 | 0 | 215 | 0 | 0 |
| 10 | cM | 190 | 0 | 215 | 0 | 0 |
| 11 | aA | 65 | 0 | 72 | 0 | 0 |

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Continued from previous page...

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 11 | bA | 65 | 0 | 72 | 0 | 0 |
| 11 | cA | 65 | 0 | 72 | 0 | 0 |
| 12 | aA | 2396 | 0 | 2199 | 0 | 0 |
| 12 | aB | 2144 | 0 | 1874 | 0 | 0 |
| 12 | aF | 45 | 0 | 33 | 0 | 0 |
| 12 | aL | 143 | 0 | 111 | 0 | 0 |
| 12 | bA | 2351 | 0 | 2166 | 0 | 0 |
| 12 | bB | 2144 | 0 | 1874 | 0 | 0 |
| 12 | bF | 45 | 0 | 33 | 0 | 0 |
| 12 | bL | 143 | 0 | 111 | 0 | 0 |
| 12 | cA | 2351 | 0 | 2166 | 0 | 0 |
| 12 | cB | 2099 | 0 | 1841 | 0 | 0 |
| 12 | cF | 45 | 0 | 33 | 0 | 0 |
| 12 | cL | 143 | 0 | 111 | 0 | 0 |
| 13 | aA | 33 | 0 | 0 | 0 | 0 |
| 13 | aB | 33 | 0 | 0 | 0 | 0 |
| 13 | bA | 33 | 0 | 0 | 0 | 0 |
| 13 | bB | 33 | 0 | 0 | 0 | 0 |
| 13 | cA | 33 | 0 | 0 | 0 | 0 |
| 13 | cB | 33 | 0 | 0 | 0 | 0 |
| 14 | aA | 8 | 0 | 0 | 0 | 0 |
| 14 | aC | 16 | 0 | 0 | 0 | 0 |
| 14 | bA | 8 | 0 | 0 | 0 | 0 |
| 14 | bC | 16 | 0 | 0 | 0 | 0 |
| 14 | cA | 8 | 0 | 0 | 0 | 0 |
| 14 | cC | 16 | 0 | 0 | 0 | 0 |
| 15 | aA | 200 | 0 | 280 | 0 | 0 |
| 15 | aB | 240 | 0 | 336 | 0 | 0 |
| 15 | aF | 120 | 0 | 168 | 0 | 0 |
| 15 | aI | 40 | 0 | 56 | 0 | 0 |
| 15 | aJ | 40 | 0 | 56 | 0 | 0 |
| 15 | aL | 120 | 0 | 168 | 0 | 0 |
| 15 | aM | 40 | 0 | 55 | 0 | 0 |
| 15 | bA | 200 | 0 | 280 | 0 | 0 |
| 15 | bB | 240 | 0 | 336 | 0 | 0 |
| 15 | bF | 120 | 0 | 168 | 0 | 0 |
| 15 | bI | 40 | 0 | 56 | 0 | 0 |
| 15 | bJ | 40 | 0 | 56 | 0 | 0 |
| 15 | bL | 120 | 0 | 168 | 0 | 0 |
| 15 | bM | 40 | 0 | 55 | 0 | 0 |
| 15 | cA | 200 | 0 | 280 | 0 | 0 |
| 15 | cB | 240 | 0 | 336 | 0 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 15 | cF | 120 | 0 | 168 | 0 | 0 |
| 15 | cI | 40 | 0 | 56 | 0 | 0 |
| 15 | cJ | 40 | 0 | 56 | 0 | 0 |
| 15 | cL | 120 | 0 | 168 | 0 | 0 |
| 15 | cM | 40 | 0 | 55 | 0 | 0 |
| 16 | aA | 76 | 0 | 98 | 0 | 0 |
| 16 | aB | 23 | 0 | 16 | 0 | 0 |
| 16 | bA | 76 | 0 | 98 | 0 | 0 |
| 16 | bB | 23 | 0 | 16 | 0 | 0 |
| 16 | cA | 76 | 0 | 98 | 0 | 0 |
| 16 | cB | 23 | 0 | 16 | 0 | 0 |
| 17 | aB | 43 | 0 | 56 | 0 | 0 |
| 17 | bB | 43 | 0 | 56 | 0 | 0 |
| 17 | cB | 43 | 0 | 56 | 0 | 0 |
| 18 | aA | 45 | 0 | 0 | 0 | 0 |
| 18 | aB | 67 | 0 | 0 | 0 | 0 |
| 18 | aC | 14 | 0 | 0 | 0 | 0 |
| 18 | aD | 2 | 0 | 0 | 0 | 0 |
| 18 | aE | 3 | 0 | 0 | 0 | 0 |
| 18 | aF | 1 | 0 | 0 | 0 | 0 |
| 18 | aJ | 1 | 0 | 0 | 0 | 0 |
| 18 | aL | 1 | 0 | 0 | 0 | 0 |
| 18 | bA | 45 | 0 | 0 | 0 | 0 |
| 18 | bB | 67 | 0 | 0 | 0 | 0 |
| 18 | bC | 14 | 0 | 0 | 0 | 0 |
| 18 | bD | 2 | 0 | 0 | 0 | 0 |
| 18 | bE | 3 | 0 | 0 | 0 | 0 |
| 18 | bF | 1 | 0 | 0 | 0 | 0 |
| 18 | bJ | 1 | 0 | 0 | 0 | 0 |
| 18 | bL | 1 | 0 | 0 | 0 | 0 |
| 18 | cA | 45 | 0 | 0 | 0 | 0 |
| 18 | cB | 67 | 0 | 0 | 0 | 0 |
| 18 | cC | 14 | 0 | 0 | 0 | 0 |
| 18 | cD | 2 | 0 | 0 | 0 | 0 |
| 18 | cE | 3 | 0 | 0 | 0 | 0 |
| 18 | cF | 1 | 0 | 0 | 0 | 0 |
| 18 | cJ | 1 | 0 | 0 | 0 | 0 |
| 18 | cL | 1 | 0 | 0 | 0 | 0 |
| All | All | 67641 | 0 | 65379 | 0 | 0 |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 5.

There are no clashes within the asymmetric unit.

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|---------------|-----------|---------|----------|-------------|-----|
| 1 | aA | 770/783 (98%) | 742 (96%) | 28 (4%) | 0 | 100 | 100 |
| 1 | bA | 770/783 (98%) | 742 (96%) | 28 (4%) | 0 | 100 | 100 |
| 1 | cA | 770/783 (98%) | 742 (96%) | 28 (4%) | 0 | 100 | 100 |
| 2 | aB | 723/872 (83%) | 708 (98%) | 15 (2%) | 0 | 100 | 100 |
| 2 | bB | 723/872 (83%) | 708 (98%) | 15 (2%) | 0 | 100 | 100 |
| 2 | cB | 723/872 (83%) | 708 (98%) | 15 (2%) | 0 | 100 | 100 |
| 3 | aC | 78/81 (96%) | 75 (96%) | 2 (3%) | 1 (1%) | 12 | 4 |
| 3 | bC | 78/81 (96%) | 75 (96%) | 2 (3%) | 1 (1%) | 12 | 4 |
| 3 | cC | 78/81 (96%) | 75 (96%) | 2 (3%) | 1 (1%) | 12 | 4 |
| 4 | aD | 131/144 (91%) | 126 (96%) | 5 (4%) | 0 | 100 | 100 |
| 4 | bD | 131/144 (91%) | 126 (96%) | 5 (4%) | 0 | 100 | 100 |
| 4 | cD | 131/144 (91%) | 126 (96%) | 5 (4%) | 0 | 100 | 100 |
| 5 | aE | 60/65 (92%) | 57 (95%) | 3 (5%) | 0 | 100 | 100 |
| 5 | bE | 60/65 (92%) | 57 (95%) | 3 (5%) | 0 | 100 | 100 |
| 5 | cE | 60/65 (92%) | 57 (95%) | 3 (5%) | 0 | 100 | 100 |
| 6 | aF | 149/181 (82%) | 144 (97%) | 5 (3%) | 0 | 100 | 100 |
| 6 | bF | 149/181 (82%) | 144 (97%) | 5 (3%) | 0 | 100 | 100 |
| 6 | cF | 149/181 (82%) | 144 (97%) | 5 (3%) | 0 | 100 | 100 |
| 7 | aI | 29/35 (83%) | 28 (97%) | 1 (3%) | 0 | 100 | 100 |
| 7 | bI | 29/35 (83%) | 28 (97%) | 1 (3%) | 0 | 100 | 100 |
| 7 | cI | 29/35 (83%) | 28 (97%) | 1 (3%) | 0 | 100 | 100 |

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| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|----------|-------------|-----|
| 9 | aL | 127/147 (86%) | 122 (96%) | 4 (3%) | 1 (1%) | 19 | 10 |
| 9 | bL | 127/147 (86%) | 122 (96%) | 4 (3%) | 1 (1%) | 19 | 10 |
| 9 | cL | 127/147 (86%) | 122 (96%) | 4 (3%) | 1 (1%) | 19 | 10 |
| 10 | aM | 27/34 (79%) | 27 (100%) | 0 | 0 | 100 | 100 |
| 10 | bM | 27/34 (79%) | 27 (100%) | 0 | 0 | 100 | 100 |
| 10 | cM | 27/34 (79%) | 27 (100%) | 0 | 0 | 100 | 100 |
| All | All | 6282/7026 (89%) | 6087 (97%) | 189 (3%) | 6 (0%) | 54 | 45 |

All (6) Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 9 | aL | 104 | PRO |
| 9 | bL | 104 | PRO |
| 9 | cL | 104 | PRO |
| 3 | aC | 62 | PHE |
| 3 | bC | 62 | PHE |
| 3 | cC | 62 | PHE |

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|---------------|-----------|----------|-------------|----|
| 1 | aA | 612/623 (98%) | 598 (98%) | 14 (2%) | 50 | 44 |
| 1 | bA | 612/623 (98%) | 598 (98%) | 14 (2%) | 50 | 44 |
| 1 | cA | 612/623 (98%) | 597 (98%) | 15 (2%) | 47 | 40 |
| 2 | aB | 573/694 (83%) | 566 (99%) | 7 (1%) | 71 | 70 |
| 2 | bB | 573/694 (83%) | 566 (99%) | 7 (1%) | 71 | 70 |
| 2 | cB | 573/694 (83%) | 566 (99%) | 7 (1%) | 71 | 70 |
| 3 | aC | 68/69 (99%) | 67 (98%) | 1 (2%) | 65 | 62 |
| 3 | bC | 68/69 (99%) | 67 (98%) | 1 (2%) | 65 | 62 |
| 3 | cC | 68/69 (99%) | 67 (98%) | 1 (2%) | 65 | 62 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|-------------|-----|
| 4 | aD | 113/122 (93%) | 108 (96%) | 5 (4%) | 28 | 21 |
| 4 | bD | 113/122 (93%) | 108 (96%) | 5 (4%) | 28 | 21 |
| 4 | cD | 113/122 (93%) | 108 (96%) | 5 (4%) | 28 | 21 |
| 5 | aE | 56/57 (98%) | 53 (95%) | 3 (5%) | 22 | 13 |
| 5 | bE | 56/57 (98%) | 53 (95%) | 3 (5%) | 22 | 13 |
| 5 | cE | 56/57 (98%) | 53 (95%) | 3 (5%) | 22 | 13 |
| 6 | aF | 125/148 (84%) | 116 (93%) | 9 (7%) | 14 | 7 |
| 6 | bF | 125/148 (84%) | 116 (93%) | 9 (7%) | 14 | 7 |
| 6 | cF | 125/148 (84%) | 116 (93%) | 9 (7%) | 14 | 7 |
| 7 | aI | 26/30 (87%) | 26 (100%) | 0 | 100 | 100 |
| 7 | bI | 26/30 (87%) | 26 (100%) | 0 | 100 | 100 |
| 7 | cI | 26/30 (87%) | 26 (100%) | 0 | 100 | 100 |
| 9 | aL | 100/116 (86%) | 98 (98%) | 2 (2%) | 55 | 50 |
| 9 | bL | 100/116 (86%) | 98 (98%) | 2 (2%) | 55 | 50 |
| 9 | cL | 100/116 (86%) | 98 (98%) | 2 (2%) | 55 | 50 |
| 10 | aM | 18/21 (86%) | 17 (94%) | 1 (6%) | 21 | 12 |
| 10 | bM | 18/21 (86%) | 17 (94%) | 1 (6%) | 21 | 12 |
| 10 | cM | 18/21 (86%) | 17 (94%) | 1 (6%) | 21 | 12 |
| All | All | 5073/5640 (90%) | 4946 (98%) | 127 (2%) | 50 | 40 |

All (127) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | aA | 18 | ASN |
| 1 | aA | 19 | ASP |
| 1 | aA | 30 | LYS |
| 1 | aA | 36 | ARG |
| 1 | aA | 60 | THR |
| 1 | aA | 278 | ASP |
| 1 | aA | 282 | PHE |
| 1 | aA | 328 | GLU |
| 1 | aA | 519 | LEU |
| 1 | aA | 601 | CYS |
| 1 | aA | 643 | THR |
| 1 | aA | 661 | THR |
| 1 | aA | 672 | ILE |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | aA | 741 | VAL |
| 2 | aB | 237 | GLN |
| 2 | aB | 245 | PHE |
| 2 | aB | 294 | ASP |
| 2 | aB | 387 | LYS |
| 2 | aB | 487 | ASN |
| 2 | aB | 558 | PHE |
| 2 | aB | 559 | TYR |
| 3 | aC | 63 | LEU |
| 4 | aD | 41 | GLU |
| 4 | aD | 42 | GLU |
| 4 | aD | 137 | THR |
| 4 | aD | 142 | PHE |
| 4 | aD | 143 | ASP |
| 5 | aE | 12 | LEU |
| 5 | aE | 29 | ASP |
| 5 | aE | 62 | GLU |
| 6 | aF | 36 | ASP |
| 6 | aF | 42 | LYS |
| 6 | aF | 50 | LEU |
| 6 | aF | 59 | GLN |
| 6 | aF | 83 | ASP |
| 6 | aF | 155 | ILE |
| 6 | aF | 161 | ILE |
| 6 | aF | 164 | LEU |
| 6 | aF | 166 | SER |
| 9 | aL | 100 | VAL |
| 9 | aL | 115 | LEU |
| 10 | aM | 19 | LEU |
| 1 | bA | 18 | ASN |
| 1 | bA | 19 | ASP |
| 1 | bA | 30 | LYS |
| 1 | bA | 36 | ARG |
| 1 | bA | 60 | THR |
| 1 | bA | 278 | ASP |
| 1 | bA | 282 | PHE |
| 1 | bA | 328 | GLU |
| 1 | bA | 519 | LEU |
| 1 | bA | 601 | CYS |
| 1 | bA | 643 | THR |
| 1 | bA | 661 | THR |
| 1 | bA | 672 | ILE |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | bA | 741 | VAL |
| 2 | bB | 237 | GLN |
| 2 | bB | 245 | PHE |
| 2 | bB | 294 | ASP |
| 2 | bB | 387 | LYS |
| 2 | bB | 487 | ASN |
| 2 | bB | 558 | PHE |
| 2 | bB | 559 | TYR |
| 3 | bC | 63 | LEU |
| 4 | bD | 41 | GLU |
| 4 | bD | 42 | GLU |
| 4 | bD | 137 | THR |
| 4 | bD | 142 | PHE |
| 4 | bD | 143 | ASP |
| 5 | bE | 12 | LEU |
| 5 | bE | 29 | ASP |
| 5 | bE | 62 | GLU |
| 6 | bF | 36 | ASP |
| 6 | bF | 42 | LYS |
| 6 | bF | 50 | LEU |
| 6 | bF | 59 | GLN |
| 6 | bF | 83 | ASP |
| 6 | bF | 155 | ILE |
| 6 | bF | 161 | ILE |
| 6 | bF | 164 | LEU |
| 6 | bF | 166 | SER |
| 9 | bL | 100 | VAL |
| 9 | bL | 115 | LEU |
| 10 | bM | 19 | LEU |
| 1 | cA | 18 | ASN |
| 1 | cA | 19 | ASP |
| 1 | cA | 30 | LYS |
| 1 | cA | 36 | ARG |
| 1 | cA | 60 | THR |
| 1 | cA | 278 | ASP |
| 1 | cA | 282 | PHE |
| 1 | cA | 305 | ILE |
| 1 | cA | 328 | GLU |
| 1 | cA | 519 | LEU |
| 1 | cA | 601 | CYS |
| 1 | cA | 643 | THR |
| 1 | cA | 661 | THR |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | cA | 672 | ILE |
| 1 | cA | 741 | VAL |
| 2 | cB | 237 | GLN |
| 2 | cB | 245 | PHE |
| 2 | cB | 294 | ASP |
| 2 | cB | 387 | LYS |
| 2 | cB | 487 | ASN |
| 2 | cB | 558 | PHE |
| 2 | cB | 559 | TYR |
| 3 | cC | 63 | LEU |
| 4 | cD | 41 | GLU |
| 4 | cD | 42 | GLU |
| 4 | cD | 137 | THR |
| 4 | cD | 142 | PHE |
| 4 | cD | 143 | ASP |
| 5 | cE | 12 | LEU |
| 5 | cE | 29 | ASP |
| 5 | cE | 62 | GLU |
| 6 | cF | 36 | ASP |
| 6 | cF | 42 | LYS |
| 6 | cF | 50 | LEU |
| 6 | cF | 59 | GLN |
| 6 | cF | 83 | ASP |
| 6 | cF | 155 | ILE |
| 6 | cF | 161 | ILE |
| 6 | cF | 164 | LEU |
| 6 | cF | 166 | SER |
| 9 | cL | 100 | VAL |
| 9 | cL | 115 | LEU |
| 10 | cM | 19 | LEU |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (53) such sidechains are listed below:

| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 1 | aA | 195 | GLN |
| 1 | aA | 196 | ASN |
| 1 | aA | 253 | GLN |
| 1 | aA | 360 | ASN |
| 1 | aA | 427 | GLN |
| 1 | aA | 626 | HIS |
| 1 | aA | 746 | GLN |
| 2 | aB | 114 | ASN |

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| Mol | Chain | Res | Type |
|------------|--------------|------------|-------------|
| 2 | aB | 319 | GLN |
| 2 | aB | 349 | GLN |
| 2 | aB | 389 | ASN |
| 2 | aB | 487 | ASN |
| 2 | aB | 655 | GLN |
| 4 | aD | 60 | ASN |
| 4 | aD | 71 | HIS |
| 4 | aD | 76 | GLN |
| 6 | aF | 31 | GLN |
| 6 | aF | 62 | GLN |
| 1 | bA | 195 | GLN |
| 1 | bA | 196 | ASN |
| 1 | bA | 253 | GLN |
| 1 | bA | 360 | ASN |
| 1 | bA | 626 | HIS |
| 1 | bA | 746 | GLN |
| 2 | bB | 114 | ASN |
| 2 | bB | 319 | GLN |
| 2 | bB | 349 | GLN |
| 2 | bB | 389 | ASN |
| 2 | bB | 487 | ASN |
| 2 | bB | 655 | GLN |
| 4 | bD | 60 | ASN |
| 4 | bD | 71 | HIS |
| 4 | bD | 76 | GLN |
| 6 | bF | 31 | GLN |
| 6 | bF | 62 | GLN |
| 1 | cA | 195 | GLN |
| 1 | cA | 196 | ASN |
| 1 | cA | 253 | GLN |
| 1 | cA | 360 | ASN |
| 1 | cA | 427 | GLN |
| 1 | cA | 626 | HIS |
| 1 | cA | 746 | GLN |
| 2 | cB | 114 | ASN |
| 2 | cB | 319 | GLN |
| 2 | cB | 349 | GLN |
| 2 | cB | 389 | ASN |
| 2 | cB | 487 | ASN |
| 2 | cB | 655 | GLN |
| 4 | cD | 60 | ASN |
| 4 | cD | 71 | HIS |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 4 | cD | 76 | GLN |
| 6 | cF | 31 | GLN |
| 6 | cF | 62 | GLN |

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

354 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 12 | CLA | bB | 936 | - | 59,67,73 | 2.06 | 19 (32%) | 68,105,113 | 2.88 | 29 (42%) |
| 16 | LHG | bA | 852 | 12 | 26,26,48 | 0.94 | 1 (3%) | 29,32,54 | 1.32 | 3 (10%) |
| 12 | CLA | aB | 916 | - | 59,67,73 | 2.04 | 18 (30%) | 68,105,113 | 2.91 | 29 (42%) |
| 12 | CLA | cB | 914 | - | 45,53,73 | 2.36 | 17 (37%) | 52,89,113 | 3.29 | 23 (44%) |
| 16 | LHG | aA | 853 | 12 | 26,26,48 | 0.94 | 1 (3%) | 29,32,54 | 1.32 | 3 (10%) |
| 12 | CLA | bA | 831 | - | 50,58,73 | 2.21 | 17 (34%) | 58,95,113 | 2.95 | 31 (53%) |
| 12 | CLA | cA | 806 | - | 65,73,73 | 1.95 | 17 (26%) | 76,113,113 | 2.76 | 25 (32%) |
| 12 | CLA | bA | 808 | - | 51,59,73 | 2.26 | 17 (33%) | 59,96,113 | 3.00 | 29 (49%) |
| 12 | CLA | bB | 937 | - | 47,55,73 | 2.30 | 18 (38%) | 54,91,113 | 3.17 | 25 (46%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 15 | BCR | cB | 944 | - | 41,41,41 | 1.08 | 2 (4%) | 56,56,56 | 1.18 | 7 (12%) |
| 12 | CLA | cL | 202 | 9 | 53,61,73 | 2.21 | 19 (35%) | 61,98,113 | 3.09 | 28 (45%) |
| 12 | CLA | aA | 803 | - | 65,73,73 | 1.95 | 17 (26%) | 76,113,113 | 2.72 | 31 (40%) |
| 12 | CLA | aA | 839 | - | 45,53,73 | 2.30 | 17 (37%) | 52,89,113 | 3.21 | 24 (46%) |
| 12 | CLA | aB | 939 | - | 45,53,73 | 2.26 | 16 (35%) | 52,89,113 | 3.30 | 23 (44%) |
| 12 | CLA | aB | 928 | - | 50,58,73 | 2.28 | 18 (36%) | 58,95,113 | 3.03 | 28 (48%) |
| 12 | CLA | cB | 909 | - | 55,63,73 | 2.08 | 18 (32%) | 64,101,113 | 2.78 | 28 (43%) |
| 15 | BCR | aA | 849 | - | 41,41,41 | 1.10 | 3 (7%) | 56,56,56 | 1.18 | 4 (7%) |
| 12 | CLA | aB | 903 | - | 51,59,73 | 2.22 | 18 (35%) | 59,96,113 | 3.03 | 29 (49%) |
| 15 | BCR | bF | 201 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.24 | 6 (10%) |
| 12 | CLA | bB | 925 | - | 55,63,73 | 2.08 | 16 (29%) | 64,101,113 | 3.05 | 29 (45%) |
| 12 | CLA | bA | 804 | - | 56,64,73 | 2.12 | 17 (30%) | 65,102,113 | 2.91 | 27 (41%) |
| 12 | CLA | bA | 838 | - | 65,73,73 | 1.91 | 17 (26%) | 76,113,113 | 2.76 | 25 (32%) |
| 12 | CLA | aA | 808 | - | 51,59,73 | 2.27 | 17 (33%) | 59,96,113 | 2.99 | 29 (49%) |
| 12 | CLA | aA | 805 | - | 53,61,73 | 2.19 | 17 (32%) | 61,98,113 | 3.01 | 26 (42%) |
| 12 | CLA | aA | 820 | - | 56,64,73 | 2.15 | 18 (32%) | 65,102,113 | 2.89 | 28 (43%) |
| 12 | CLA | aB | 919 | - | 47,55,73 | 2.27 | 15 (31%) | 54,91,113 | 3.07 | 26 (48%) |
| 12 | CLA | cA | 803 | - | 65,73,73 | 1.95 | 17 (26%) | 76,113,113 | 2.73 | 31 (40%) |
| 15 | BCR | bJ | 101 | - | 41,41,41 | 1.05 | 2 (4%) | 56,56,56 | 1.35 | 6 (10%) |
| 12 | CLA | aB | 929 | - | 45,53,73 | 2.36 | 17 (37%) | 52,89,113 | 3.28 | 24 (46%) |
| 12 | CLA | aB | 921 | - | 55,63,73 | 2.19 | 17 (30%) | 64,101,113 | 2.96 | 26 (40%) |
| 15 | BCR | cA | 849 | - | 41,41,41 | 1.18 | 2 (4%) | 56,56,56 | 1.39 | 6 (10%) |
| 12 | CLA | aL | 203 | - | 45,53,73 | 2.35 | 17 (37%) | 52,89,113 | 3.22 | 23 (44%) |
| 13 | 1L3 | cA | 844 | - | 34,34,34 | 2.31 | 9 (26%) | 42,45,45 | 1.62 | 9 (21%) |
| 12 | CLA | bB | 926 | - | 65,73,73 | 1.91 | 17 (26%) | 76,113,113 | 2.64 | 30 (39%) |
| 12 | CLA | aA | 840 | - | 65,73,73 | 1.98 | 17 (26%) | 76,113,113 | 2.59 | 28 (36%) |
| 12 | CLA | aA | 811 | - | 45,53,73 | 2.42 | 16 (35%) | 52,89,113 | 3.14 | 25 (48%) |
| 12 | CLA | cA | 818 | - | 54,62,73 | 2.14 | 17 (31%) | 62,99,113 | 2.97 | 28 (45%) |
| 12 | CLA | cF | 202 | 6 | 45,53,73 | 2.40 | 17 (37%) | 52,89,113 | 3.17 | 26 (50%) |
| 12 | CLA | cL | 204 | 18 | 45,53,73 | 2.40 | 19 (42%) | 52,89,113 | 3.21 | 24 (46%) |
| 12 | CLA | aA | 817 | - | 54,62,73 | 2.22 | 16 (29%) | 62,99,113 | 3.04 | 26 (41%) |
| 12 | CLA | aB | 915 | - | 52,60,73 | 2.22 | 16 (30%) | 60,97,113 | 3.12 | 25 (41%) |
| 12 | CLA | cA | 843 | 18 | 65,73,73 | 1.93 | 17 (26%) | 76,113,113 | 2.80 | 30 (39%) |
| 15 | BCR | cA | 846 | - | 41,41,41 | 1.06 | 2 (4%) | 56,56,56 | 1.28 | 7 (12%) |
| 11 | CL0 | cA | 801 | - | 65,73,73 | 1.91 | 18 (27%) | 76,113,113 | 2.55 | 32 (42%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 12 | CLA | bB | 919 | - | 47,55,73 | 2.27 | 15 (31%) | 54,91,113 | 3.07 | 26 (48%) |
| 12 | CLA | aA | 837 | - | 51,59,73 | 2.24 | 17 (33%) | 59,96,113 | 3.04 | 26 (44%) |
| 12 | CLA | cB | 939 | - | 45,53,73 | 2.27 | 15 (33%) | 52,89,113 | 3.28 | 23 (44%) |
| 15 | BCR | bF | 204 | - | 41,41,41 | 1.04 | 2 (4%) | 56,56,56 | 1.30 | 9 (16%) |
| 12 | CLA | bB | 921 | - | 55,63,73 | 2.20 | 16 (29%) | 64,101,113 | 2.97 | 26 (40%) |
| 12 | CLA | cB | 937 | - | 47,55,73 | 2.30 | 17 (36%) | 54,91,113 | 3.17 | 25 (46%) |
| 12 | CLA | cB | 920 | - | 45,53,73 | 2.41 | 16 (35%) | 52,89,113 | 3.31 | 23 (44%) |
| 12 | CLA | aA | 825 | 18 | 65,73,73 | 1.94 | 17 (26%) | 76,113,113 | 2.65 | 27 (35%) |
| 15 | BCR | aL | 205 | - | 41,41,41 | 1.05 | 2 (4%) | 56,56,56 | 1.23 | 6 (10%) |
| 12 | CLA | cA | 820 | - | 56,64,73 | 2.15 | 18 (32%) | 65,102,113 | 2.87 | 28 (43%) |
| 12 | CLA | aB | 923 | 18 | 54,62,73 | 2.07 | 17 (31%) | 62,99,113 | 2.94 | 25 (40%) |
| 12 | CLA | cB | 906 | - | 55,63,73 | 2.13 | 18 (32%) | 64,101,113 | 2.86 | 28 (43%) |
| 12 | CLA | bB | 927 | - | 65,73,73 | 1.99 | 17 (26%) | 76,113,113 | 2.42 | 24 (31%) |
| 15 | BCR | bA | 846 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.27 | 7 (12%) |
| 15 | BCR | cF | 201 | - | 41,41,41 | 1.08 | 2 (4%) | 56,56,56 | 1.23 | 6 (10%) |
| 12 | CLA | aA | 809 | 1 | 45,53,73 | 2.33 | 17 (37%) | 52,89,113 | 3.22 | 27 (51%) |
| 12 | CLA | aB | 902 | - | 61,69,73 | 1.97 | 16 (26%) | 71,108,113 | 2.73 | 24 (33%) |
| 12 | CLA | bA | 853 | 18 | 56,64,73 | 2.05 | 17 (30%) | 65,102,113 | 2.98 | 27 (41%) |
| 12 | CLA | cA | 804 | - | 56,64,73 | 2.12 | 18 (32%) | 65,102,113 | 2.91 | 27 (41%) |
| 15 | BCR | cA | 850 | - | 41,41,41 | 1.05 | 2 (4%) | 56,56,56 | 1.30 | 8 (14%) |
| 12 | CLA | aB | 927 | - | 65,73,73 | 1.99 | 17 (26%) | 76,113,113 | 2.42 | 24 (31%) |
| 15 | BCR | aB | 944 | - | 41,41,41 | 1.08 | 2 (4%) | 56,56,56 | 1.18 | 7 (12%) |
| 15 | BCR | cI | 101 | - | 41,41,41 | 1.12 | 2 (4%) | 56,56,56 | 1.39 | 9 (16%) |
| 12 | CLA | bB | 905 | - | 65,73,73 | 1.94 | 18 (27%) | 76,113,113 | 2.67 | 26 (34%) |
| 12 | CLA | aA | 830 | - | 65,73,73 | 1.95 | 17 (26%) | 76,113,113 | 2.70 | 27 (35%) |
| 12 | CLA | aA | 824 | - | 47,55,73 | 2.33 | 17 (36%) | 54,91,113 | 2.99 | 27 (50%) |
| 12 | CLA | aB | 949 | 16 | 41,49,73 | 2.51 | 16 (39%) | 47,84,113 | 3.44 | 24 (51%) |
| 12 | CLA | cB | 923 | 18 | 54,62,73 | 2.07 | 17 (31%) | 62,99,113 | 2.95 | 25 (40%) |
| 12 | CLA | cA | 827 | - | 46,54,73 | 2.31 | 18 (39%) | 53,90,113 | 3.18 | 25 (47%) |
| 12 | CLA | aA | 834 | - | 65,73,73 | 1.93 | 16 (24%) | 76,113,113 | 2.76 | 27 (35%) |
| 12 | CLA | bA | 806 | - | 65,73,73 | 1.95 | 17 (26%) | 76,113,113 | 2.76 | 25 (32%) |
| 13 | 1L3 | bA | 844 | - | 34,34,34 | 2.31 | 9 (26%) | 42,45,45 | 1.61 | 9 (21%) |
| 12 | CLA | bB | 920 | - | 45,53,73 | 2.41 | 16 (35%) | 52,89,113 | 3.31 | 23 (44%) |
| 12 | CLA | bA | 823 | - | 51,59,73 | 2.20 | 18 (35%) | 59,96,113 | 3.08 | 27 (45%) |
| 12 | CLA | bB | 918 | 18 | 46,54,73 | 2.33 | 17 (36%) | 53,90,113 | 3.00 | 25 (47%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 12 | CLA | aA | 821 | 18 | 50,58,73 | 2.21 | 16 (32%) | 58,95,113 | 2.92 | 26 (44%) |
| 12 | CLA | cB | 924 | 18 | 46,54,73 | 2.35 | 17 (36%) | 53,90,113 | 3.18 | 25 (47%) |
| 12 | CLA | aB | 906 | - | 55,63,73 | 2.12 | 18 (32%) | 64,101,113 | 2.86 | 28 (43%) |
| 12 | CLA | cB | 927 | - | 65,73,73 | 2.00 | 17 (26%) | 76,113,113 | 2.42 | 24 (31%) |
| 12 | CLA | bA | 828 | - | 65,73,73 | 1.99 | 18 (27%) | 76,113,113 | 2.70 | 28 (36%) |
| 15 | BCR | bA | 848 | - | 41,41,41 | 1.10 | 3 (7%) | 56,56,56 | 1.18 | 4 (7%) |
| 12 | CLA | bB | 904 | - | 65,73,73 | 1.97 | 17 (26%) | 76,113,113 | 2.77 | 30 (39%) |
| 12 | CLA | cB | 919 | - | 47,55,73 | 2.27 | 14 (29%) | 54,91,113 | 3.08 | 26 (48%) |
| 15 | BCR | bL | 206 | - | 41,41,41 | 1.03 | 1 (2%) | 56,56,56 | 1.19 | 5 (8%) |
| 16 | LHG | bA | 851 | - | 48,48,48 | 0.65 | 1 (2%) | 51,54,54 | 1.27 | 6 (11%) |
| 12 | CLA | bA | 829 | - | 60,68,73 | 2.02 | 17 (28%) | 70,107,113 | 2.66 | 28 (40%) |
| 12 | CLA | bA | 839 | - | 45,53,73 | 2.31 | 17 (37%) | 52,89,113 | 3.21 | 24 (46%) |
| 12 | CLA | aA | 812 | - | 65,73,73 | 1.94 | 18 (27%) | 76,113,113 | 2.72 | 30 (39%) |
| 12 | CLA | bB | 908 | 2 | 48,56,73 | 2.25 | 18 (37%) | 55,92,113 | 2.86 | 26 (47%) |
| 12 | CLA | cB | 911 | - | 45,53,73 | 2.34 | 17 (37%) | 52,89,113 | 3.10 | 26 (50%) |
| 12 | CLA | cA | 834 | - | 65,73,73 | 1.93 | 16 (24%) | 76,113,113 | 2.77 | 26 (34%) |
| 15 | BCR | aB | 946 | - | 41,41,41 | 1.09 | 3 (7%) | 56,56,56 | 1.23 | 6 (10%) |
| 12 | CLA | aB | 931 | - | 65,73,73 | 1.91 | 17 (26%) | 76,113,113 | 2.92 | 28 (36%) |
| 12 | CLA | cA | 825 | 18 | 65,73,73 | 1.94 | 17 (26%) | 76,113,113 | 2.65 | 27 (35%) |
| 12 | CLA | aA | 819 | - | 60,68,73 | 2.03 | 16 (26%) | 70,107,113 | 3.01 | 34 (48%) |
| 12 | CLA | aA | 829 | - | 60,68,73 | 2.02 | 17 (28%) | 70,107,113 | 2.66 | 28 (40%) |
| 12 | CLA | aB | 911 | - | 45,53,73 | 2.34 | 17 (37%) | 52,89,113 | 3.10 | 26 (50%) |
| 12 | CLA | bA | 820 | - | 56,64,73 | 2.15 | 18 (32%) | 65,102,113 | 2.89 | 28 (43%) |
| 12 | CLA | cA | 811 | - | 45,53,73 | 2.42 | 16 (35%) | 52,89,113 | 3.15 | 25 (48%) |
| 15 | BCR | aF | 204 | - | 41,41,41 | 1.04 | 2 (4%) | 56,56,56 | 1.29 | 9 (16%) |
| 12 | CLA | cB | 913 | - | 56,64,73 | 2.11 | 18 (32%) | 65,102,113 | 2.86 | 29 (44%) |
| 12 | CLA | bA | 837 | - | 51,59,73 | 2.24 | 17 (33%) | 59,96,113 | 3.04 | 27 (45%) |
| 12 | CLA | bA | 827 | - | 46,54,73 | 2.31 | 17 (36%) | 53,90,113 | 3.16 | 25 (47%) |
| 12 | CLA | bA | 826 | 18 | 55,63,73 | 2.09 | 18 (32%) | 64,101,113 | 2.98 | 26 (40%) |
| 12 | CLA | bA | 836 | 1 | 45,53,73 | 2.41 | 17 (37%) | 52,89,113 | 3.04 | 25 (48%) |
| 12 | CLA | bB | 906 | - | 55,63,73 | 2.13 | 18 (32%) | 64,101,113 | 2.86 | 28 (43%) |
| 12 | CLA | cB | 910 | - | 45,53,73 | 2.39 | 15 (33%) | 52,89,113 | 3.13 | 26 (50%) |
| 12 | CLA | bB | 910 | - | 45,53,73 | 2.39 | 16 (35%) | 52,89,113 | 3.14 | 26 (50%) |
| 12 | CLA | aB | 918 | 18 | 46,54,73 | 2.35 | 17 (36%) | 53,90,113 | 3.00 | 24 (45%) |
| 12 | CLA | cA | 815 | - | 45,53,73 | 2.42 | 16 (35%) | 52,89,113 | 3.09 | 24 (46%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 12 | CLA | aA | 806 | - | 65,73,73 | 1.95 | 17 (26%) | 76,113,113 | 2.77 | 25 (32%) |
| 12 | CLA | bB | 915 | - | 52,60,73 | 2.21 | 16 (30%) | 60,97,113 | 3.12 | 25 (41%) |
| 12 | CLA | bB | 911 | - | 45,53,73 | 2.34 | 17 (37%) | 52,89,113 | 3.09 | 26 (50%) |
| 15 | BCR | aM | 101 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.16 | 6 (10%) |
| 12 | CLA | bA | 803 | - | 65,73,73 | 1.95 | 17 (26%) | 76,113,113 | 2.73 | 31 (40%) |
| 12 | CLA | aA | 832 | - | 55,63,73 | 2.17 | 18 (32%) | 64,101,113 | 2.95 | 30 (46%) |
| 12 | CLA | aA | 833 | - | 51,59,73 | 2.14 | 16 (31%) | 59,96,113 | 2.96 | 29 (49%) |
| 12 | CLA | cA | 816 | - | 45,53,73 | 2.40 | 18 (40%) | 52,89,113 | 3.11 | 24 (46%) |
| 15 | BCR | bA | 849 | - | 41,41,41 | 1.17 | 2 (4%) | 56,56,56 | 1.40 | 6 (10%) |
| 14 | SF4 | cC | 102 | 3 | 0,12,12 | - | - | - | - | - |
| 15 | BCR | aA | 848 | - | 41,41,41 | 1.13 | 2 (4%) | 56,56,56 | 1.51 | 13 (23%) |
| 12 | CLA | bB | 923 | 18 | 54,62,73 | 2.07 | 17 (31%) | 62,99,113 | 2.94 | 25 (40%) |
| 15 | BCR | aA | 851 | - | 41,41,41 | 1.06 | 2 (4%) | 56,56,56 | 1.30 | 8 (14%) |
| 15 | BCR | aF | 201 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.23 | 7 (12%) |
| 11 | CL0 | bA | 801 | - | 65,73,73 | 1.92 | 18 (27%) | 76,113,113 | 2.56 | 31 (40%) |
| 12 | CLA | bB | 902 | - | 61,69,73 | 1.97 | 17 (27%) | 71,108,113 | 2.72 | 24 (33%) |
| 12 | CLA | cB | 932 | - | 45,53,73 | 2.34 | 16 (35%) | 52,89,113 | 3.26 | 26 (50%) |
| 12 | CLA | bA | 832 | - | 55,63,73 | 2.16 | 18 (32%) | 64,101,113 | 2.94 | 30 (46%) |
| 12 | CLA | cA | 822 | - | 49,57,73 | 2.33 | 17 (34%) | 55,93,113 | 3.24 | 24 (43%) |
| 15 | BCR | cB | 941 | - | 41,41,41 | 1.09 | 3 (7%) | 56,56,56 | 1.27 | 5 (8%) |
| 15 | BCR | cL | 206 | - | 41,41,41 | 1.03 | 2 (4%) | 56,56,56 | 1.20 | 5 (8%) |
| 12 | CLA | cB | 917 | - | 55,63,73 | 2.08 | 17 (30%) | 64,101,113 | 2.91 | 28 (43%) |
| 16 | LHG | bB | 948 | 12 | 22,22,48 | 1.06 | 1 (4%) | 25,28,54 | 1.10 | 1 (4%) |
| 15 | BCR | bL | 201 | - | 41,41,41 | 1.19 | 3 (7%) | 56,56,56 | 1.23 | 4 (7%) |
| 12 | CLA | cA | 823 | - | 51,59,73 | 2.20 | 17 (33%) | 59,96,113 | 3.07 | 27 (45%) |
| 12 | CLA | aB | 933 | 18 | 45,53,73 | 2.27 | 17 (37%) | 52,89,113 | 3.08 | 24 (46%) |
| 12 | CLA | cB | 949 | 16 | 41,49,73 | 2.50 | 16 (39%) | 47,84,113 | 3.44 | 24 (51%) |
| 12 | CLA | bA | 819 | - | 60,68,73 | 2.02 | 16 (26%) | 70,107,113 | 3.01 | 33 (47%) |
| 12 | CLA | cA | 835 | - | 45,53,73 | 2.37 | 17 (37%) | 52,89,113 | 3.00 | 25 (48%) |
| 12 | CLA | aB | 910 | - | 45,53,73 | 2.38 | 16 (35%) | 52,89,113 | 3.13 | 26 (50%) |
| 12 | CLA | aA | 842 | - | 65,73,73 | 1.94 | 17 (26%) | 76,113,113 | 2.72 | 27 (35%) |
| 12 | CLA | cA | 853 | 18 | 56,64,73 | 2.05 | 17 (30%) | 65,102,113 | 2.98 | 27 (41%) |
| 12 | CLA | cB | 933 | 18 | 45,53,73 | 2.28 | 18 (40%) | 52,89,113 | 3.08 | 24 (46%) |
| 17 | LMG | aB | 947 | - | 43,43,55 | 0.95 | 1 (2%) | 51,51,63 | 1.25 | 6 (11%) |
| 15 | BCR | aB | 945 | - | 41,41,41 | 1.08 | 2 (4%) | 56,56,56 | 1.35 | 7 (12%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 16 | LHG | aB | 948 | 12 | 22,22,48 | 1.05 | 1 (4%) | 25,28,54 | 1.10 | 1 (4%) |
| 12 | CLA | bB | 950 | 16 | 45,53,73 | 2.41 | 18 (40%) | 52,89,113 | 2.97 | 21 (40%) |
| 12 | CLA | cA | 802 | 18 | 65,73,73 | 1.92 | 16 (24%) | 76,113,113 | 2.76 | 26 (34%) |
| 15 | BCR | bB | 942 | - | 41,41,41 | 1.06 | 2 (4%) | 56,56,56 | 1.19 | 3 (5%) |
| 12 | CLA | bA | 830 | - | 65,73,73 | 1.95 | 16 (24%) | 76,113,113 | 2.70 | 27 (35%) |
| 12 | CLA | aA | 843 | 18 | 65,73,73 | 1.92 | 17 (26%) | 76,113,113 | 2.80 | 30 (39%) |
| 12 | CLA | cL | 203 | - | 45,53,73 | 2.35 | 18 (40%) | 52,89,113 | 3.22 | 23 (44%) |
| 11 | CL0 | aA | 801 | - | 65,73,73 | 1.92 | 18 (27%) | 76,113,113 | 2.56 | 32 (42%) |
| 15 | BCR | aL | 201 | - | 41,41,41 | 1.19 | 3 (7%) | 56,56,56 | 1.23 | 4 (7%) |
| 12 | CLA | bB | 930 | - | 49,57,73 | 2.31 | 17 (34%) | 55,93,113 | 3.08 | 26 (47%) |
| 12 | CLA | aA | 831 | - | 50,58,73 | 2.21 | 17 (34%) | 58,95,113 | 2.95 | 31 (53%) |
| 15 | BCR | aJ | 101 | - | 41,41,41 | 1.05 | 2 (4%) | 56,56,56 | 1.35 | 6 (10%) |
| 15 | BCR | bL | 205 | - | 41,41,41 | 1.05 | 2 (4%) | 56,56,56 | 1.24 | 6 (10%) |
| 12 | CLA | aA | 813 | - | 45,53,73 | 2.48 | 19 (42%) | 52,89,113 | 3.04 | 23 (44%) |
| 12 | CLA | aB | 926 | - | 65,73,73 | 1.92 | 17 (26%) | 76,113,113 | 2.64 | 29 (38%) |
| 12 | CLA | cB | 929 | - | 45,53,73 | 2.36 | 17 (37%) | 52,89,113 | 3.28 | 25 (48%) |
| 15 | BCR | aF | 203 | - | 41,41,41 | 1.08 | 2 (4%) | 56,56,56 | 1.33 | 8 (14%) |
| 12 | CLA | bA | 825 | 18 | 65,73,73 | 1.94 | 17 (26%) | 76,113,113 | 2.65 | 27 (35%) |
| 12 | CLA | bA | 814 | - | 45,53,73 | 2.36 | 17 (37%) | 52,89,113 | 3.03 | 24 (46%) |
| 15 | BCR | cL | 205 | - | 41,41,41 | 1.05 | 2 (4%) | 56,56,56 | 1.23 | 6 (10%) |
| 12 | CLA | bB | 924 | 18 | 46,54,73 | 2.35 | 17 (36%) | 53,90,113 | 3.17 | 25 (47%) |
| 12 | CLA | bA | 805 | - | 53,61,73 | 2.19 | 18 (33%) | 61,98,113 | 3.01 | 26 (42%) |
| 15 | BCR | cB | 946 | - | 41,41,41 | 1.09 | 3 (7%) | 56,56,56 | 1.23 | 6 (10%) |
| 12 | CLA | bA | 810 | 1 | 45,53,73 | 2.40 | 17 (37%) | 52,89,113 | 3.26 | 26 (50%) |
| 12 | CLA | cB | 901 | - | 65,73,73 | 1.87 | 16 (24%) | 76,113,113 | 2.72 | 28 (36%) |
| 12 | CLA | cB | 903 | - | 51,59,73 | 2.22 | 18 (35%) | 59,96,113 | 3.03 | 29 (49%) |
| 15 | BCR | aI | 101 | - | 41,41,41 | 1.11 | 2 (4%) | 56,56,56 | 1.39 | 9 (16%) |
| 12 | CLA | aA | 804 | - | 56,64,73 | 2.12 | 17 (30%) | 65,102,113 | 2.91 | 27 (41%) |
| 12 | CLA | aA | 827 | - | 46,54,73 | 2.31 | 16 (34%) | 53,90,113 | 3.18 | 25 (47%) |
| 12 | CLA | cB | 908 | 2 | 48,56,73 | 2.24 | 18 (37%) | 55,92,113 | 2.86 | 26 (47%) |
| 12 | CLA | aL | 204 | 18 | 45,53,73 | 2.40 | 19 (42%) | 52,89,113 | 3.21 | 24 (46%) |
| 15 | BCR | aB | 942 | - | 41,41,41 | 1.06 | 2 (4%) | 56,56,56 | 1.19 | 3 (5%) |
| 12 | CLA | bB | 913 | - | 56,64,73 | 2.11 | 18 (32%) | 65,102,113 | 2.86 | 28 (43%) |
| 12 | CLA | cA | 813 | - | 45,53,73 | 2.49 | 19 (42%) | 52,89,113 | 3.04 | 23 (44%) |
| 15 | BCR | bA | 847 | - | 41,41,41 | 1.13 | 2 (4%) | 56,56,56 | 1.51 | 13 (23%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 14 | SF4 | aC | 101 | 3 | 0,12,12 | - | - | - | | |
| 14 | SF4 | cC | 101 | 3 | 0,12,12 | - | - | - | | |
| 15 | BCR | bB | 944 | - | 41,41,41 | 1.08 | 2 (4%) | 56,56,56 | 1.18 | 7 (12%) |
| 14 | SF4 | bC | 101 | 3 | 0,12,12 | - | - | - | | |
| 15 | BCR | cB | 942 | - | 41,41,41 | 1.06 | 2 (4%) | 56,56,56 | 1.19 | 4 (7%) |
| 12 | CLA | aB | 935 | - | 50,58,73 | 2.25 | 17 (34%) | 58,95,113 | 3.13 | 28 (48%) |
| 12 | CLA | cB | 915 | - | 52,60,73 | 2.21 | 16 (30%) | 60,97,113 | 3.12 | 25 (41%) |
| 12 | CLA | bA | 802 | 18 | 65,73,73 | 1.91 | 15 (23%) | 76,113,113 | 2.76 | 26 (34%) |
| 12 | CLA | aA | 836 | 1 | 45,53,73 | 2.40 | 17 (37%) | 52,89,113 | 3.04 | 25 (48%) |
| 12 | CLA | bB | 931 | - | 65,73,73 | 1.92 | 16 (24%) | 76,113,113 | 2.91 | 28 (36%) |
| 15 | BCR | cL | 201 | - | 41,41,41 | 1.18 | 3 (7%) | 56,56,56 | 1.23 | 4 (7%) |
| 12 | CLA | aB | 922 | - | 45,53,73 | 2.38 | 17 (37%) | 52,89,113 | 3.05 | 26 (50%) |
| 15 | BCR | bF | 203 | - | 41,41,41 | 1.09 | 2 (4%) | 56,56,56 | 1.32 | 7 (12%) |
| 12 | CLA | bA | 815 | - | 45,53,73 | 2.43 | 17 (37%) | 52,89,113 | 3.09 | 24 (46%) |
| 12 | CLA | aB | 912 | - | 65,73,73 | 1.88 | 18 (27%) | 76,113,113 | 2.58 | 26 (34%) |
| 12 | CLA | cB | 902 | - | 61,69,73 | 1.97 | 16 (26%) | 71,108,113 | 2.73 | 24 (33%) |
| 12 | CLA | cB | 926 | - | 65,73,73 | 1.92 | 17 (26%) | 76,113,113 | 2.64 | 30 (39%) |
| 12 | CLA | bA | 841 | 18 | 51,59,73 | 2.22 | 18 (35%) | 59,96,113 | 3.02 | 24 (40%) |
| 12 | CLA | cA | 830 | - | 65,73,73 | 1.96 | 16 (24%) | 76,113,113 | 2.70 | 27 (35%) |
| 12 | CLA | cB | 904 | - | 65,73,73 | 1.97 | 17 (26%) | 76,113,113 | 2.77 | 30 (39%) |
| 12 | CLA | bA | 833 | - | 51,59,73 | 2.14 | 15 (29%) | 59,96,113 | 2.96 | 29 (49%) |
| 12 | CLA | cB | 918 | 18 | 46,54,73 | 2.34 | 17 (36%) | 53,90,113 | 3.00 | 24 (45%) |
| 12 | CLA | bA | 817 | - | 54,62,73 | 2.23 | 17 (31%) | 62,99,113 | 3.04 | 26 (41%) |
| 12 | CLA | cA | 833 | - | 51,59,73 | 2.14 | 16 (31%) | 59,96,113 | 2.96 | 29 (49%) |
| 12 | CLA | aA | 816 | - | 45,53,73 | 2.40 | 18 (40%) | 52,89,113 | 3.11 | 24 (46%) |
| 15 | BCR | bB | 943 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.16 | 4 (7%) |
| 17 | LMG | bB | 947 | - | 43,43,55 | 0.95 | 1 (2%) | 51,51,63 | 1.25 | 6 (11%) |
| 12 | CLA | aA | 822 | - | 49,57,73 | 2.33 | 17 (34%) | 55,93,113 | 3.25 | 24 (43%) |
| 15 | BCR | cF | 204 | - | 41,41,41 | 1.05 | 2 (4%) | 56,56,56 | 1.30 | 9 (16%) |
| 12 | CLA | bL | 202 | 9 | 53,61,73 | 2.20 | 19 (35%) | 61,98,113 | 3.08 | 28 (45%) |
| 12 | CLA | aB | 938 | 18 | 51,59,73 | 2.21 | 17 (33%) | 59,96,113 | 2.89 | 28 (47%) |
| 12 | CLA | cA | 836 | 1 | 45,53,73 | 2.41 | 17 (37%) | 52,89,113 | 3.05 | 25 (48%) |
| 12 | CLA | cB | 905 | - | 65,73,73 | 1.93 | 18 (27%) | 76,113,113 | 2.66 | 26 (34%) |
| 15 | BCR | aA | 850 | - | 41,41,41 | 1.17 | 2 (4%) | 56,56,56 | 1.39 | 6 (10%) |
| 15 | BCR | cA | 847 | - | 41,41,41 | 1.13 | 2 (4%) | 56,56,56 | 1.51 | 13 (23%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 12 | CLA | bB | 939 | - | 45,53,73 | 2.27 | 16 (35%) | 52,89,113 | 3.29 | 23 (44%) |
| 12 | CLA | aB | 909 | - | 55,63,73 | 2.08 | 18 (32%) | 64,101,113 | 2.78 | 28 (43%) |
| 12 | CLA | cB | 934 | 2 | 45,53,73 | 2.48 | 16 (35%) | 52,89,113 | 3.04 | 22 (42%) |
| 12 | CLA | aA | 823 | - | 51,59,73 | 2.19 | 17 (33%) | 59,96,113 | 3.08 | 27 (45%) |
| 12 | CLA | bB | 934 | 2 | 45,53,73 | 2.48 | 16 (35%) | 52,89,113 | 3.04 | 22 (42%) |
| 12 | CLA | bB | 949 | 16 | 41,49,73 | 2.51 | 17 (41%) | 47,84,113 | 3.45 | 24 (51%) |
| 12 | CLA | aB | 936 | - | 59,67,73 | 2.06 | 19 (32%) | 68,105,113 | 2.87 | 29 (42%) |
| 14 | SF4 | aC | 102 | 3 | 0,12,12 | - | - | - | - | - |
| 12 | CLA | bB | 938 | 18 | 51,59,73 | 2.21 | 17 (33%) | 59,96,113 | 2.89 | 28 (47%) |
| 12 | CLA | bB | 916 | - | 59,67,73 | 2.04 | 17 (28%) | 68,105,113 | 2.91 | 29 (42%) |
| 12 | CLA | cA | 840 | - | 65,73,73 | 1.98 | 17 (26%) | 76,113,113 | 2.59 | 26 (34%) |
| 12 | CLA | aA | 826 | 18 | 55,63,73 | 2.09 | 18 (32%) | 64,101,113 | 2.98 | 26 (40%) |
| 12 | CLA | aB | 914 | - | 45,53,73 | 2.36 | 17 (37%) | 52,89,113 | 3.28 | 23 (44%) |
| 12 | CLA | bB | 932 | - | 45,53,73 | 2.34 | 16 (35%) | 52,89,113 | 3.25 | 26 (50%) |
| 12 | CLA | cA | 831 | - | 50,58,73 | 2.21 | 17 (34%) | 58,95,113 | 2.94 | 31 (53%) |
| 12 | CLA | aB | 907 | - | 52,60,73 | 2.14 | 16 (30%) | 60,97,113 | 2.99 | 28 (46%) |
| 15 | BCR | aB | 941 | - | 41,41,41 | 1.09 | 3 (7%) | 56,56,56 | 1.28 | 5 (8%) |
| 12 | CLA | aA | 807 | - | 65,73,73 | 1.96 | 16 (24%) | 76,113,113 | 2.74 | 30 (39%) |
| 12 | CLA | aA | 815 | - | 45,53,73 | 2.43 | 16 (35%) | 52,89,113 | 3.09 | 24 (46%) |
| 12 | CLA | cA | 826 | 18 | 55,63,73 | 2.09 | 18 (32%) | 64,101,113 | 2.98 | 26 (40%) |
| 12 | CLA | cA | 824 | - | 47,55,73 | 2.32 | 17 (36%) | 54,91,113 | 3.00 | 27 (50%) |
| 12 | CLA | aA | 814 | - | 45,53,73 | 2.36 | 17 (37%) | 52,89,113 | 3.04 | 24 (46%) |
| 12 | CLA | cB | 931 | - | 65,73,73 | 1.92 | 16 (24%) | 76,113,113 | 2.91 | 28 (36%) |
| 15 | BCR | cB | 945 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.36 | 7 (12%) |
| 15 | BCR | bB | 945 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.36 | 7 (12%) |
| 15 | BCR | cA | 848 | - | 41,41,41 | 1.10 | 3 (7%) | 56,56,56 | 1.18 | 4 (7%) |
| 12 | CLA | bB | 933 | 18 | 45,53,73 | 2.29 | 18 (40%) | 52,89,113 | 3.10 | 24 (46%) |
| 12 | CLA | aA | 818 | - | 54,62,73 | 2.14 | 17 (31%) | 62,99,113 | 2.97 | 27 (43%) |
| 12 | CLA | bA | 812 | - | 65,73,73 | 1.94 | 18 (27%) | 76,113,113 | 2.71 | 30 (39%) |
| 15 | BCR | bB | 941 | - | 41,41,41 | 1.10 | 3 (7%) | 56,56,56 | 1.27 | 5 (8%) |
| 12 | CLA | bB | 929 | - | 45,53,73 | 2.35 | 17 (37%) | 52,89,113 | 3.28 | 24 (46%) |
| 12 | CLA | aB | 932 | - | 45,53,73 | 2.35 | 16 (35%) | 52,89,113 | 3.26 | 26 (50%) |
| 16 | LHG | aA | 852 | - | 48,48,48 | 0.65 | 1 (2%) | 51,54,54 | 1.27 | 6 (11%) |
| 12 | CLA | bA | 818 | - | 54,62,73 | 2.14 | 17 (31%) | 62,99,113 | 2.97 | 28 (45%) |
| 15 | BCR | bM | 101 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.17 | 6 (10%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 15 | BCR | cB | 943 | - | 41,41,41 | 1.06 | 2 (4%) | 56,56,56 | 1.16 | 4 (7%) |
| 17 | LMG | cB | 947 | - | 43,43,55 | 0.95 | 2 (4%) | 51,51,63 | 1.25 | 6 (11%) |
| 15 | BCR | cJ | 101 | - | 41,41,41 | 1.06 | 2 (4%) | 56,56,56 | 1.35 | 6 (10%) |
| 14 | SF4 | aA | 846 | 1,2 | 0,12,12 | - | - | - | - | - |
| 12 | CLA | cB | 938 | 18 | 51,59,73 | 2.20 | 17 (33%) | 59,96,113 | 2.88 | 28 (47%) |
| 12 | CLA | cA | 807 | - | 65,73,73 | 1.96 | 16 (24%) | 76,113,113 | 2.75 | 30 (39%) |
| 12 | CLA | aA | 838 | - | 65,73,73 | 1.91 | 17 (26%) | 76,113,113 | 2.76 | 25 (32%) |
| 12 | CLA | aB | 917 | - | 55,63,73 | 2.09 | 17 (30%) | 64,101,113 | 2.90 | 28 (43%) |
| 12 | CLA | cA | 805 | - | 53,61,73 | 2.19 | 17 (32%) | 61,98,113 | 3.01 | 26 (42%) |
| 15 | BCR | bB | 946 | - | 41,41,41 | 1.09 | 3 (7%) | 56,56,56 | 1.23 | 6 (10%) |
| 12 | CLA | bA | 822 | - | 49,57,73 | 2.33 | 17 (34%) | 55,93,113 | 3.25 | 23 (41%) |
| 12 | CLA | aB | 901 | - | 65,73,73 | 1.88 | 16 (24%) | 76,113,113 | 2.71 | 28 (36%) |
| 12 | CLA | cA | 842 | - | 65,73,73 | 1.94 | 18 (27%) | 76,113,113 | 2.72 | 27 (35%) |
| 14 | SF4 | cA | 845 | 1,2 | 0,12,12 | - | - | - | - | - |
| 12 | CLA | aB | 924 | 18 | 46,54,73 | 2.35 | 17 (36%) | 53,90,113 | 3.17 | 25 (47%) |
| 12 | CLA | bA | 824 | - | 47,55,73 | 2.33 | 17 (36%) | 54,91,113 | 3.00 | 26 (48%) |
| 12 | CLA | cB | 928 | - | 50,58,73 | 2.28 | 18 (36%) | 58,95,113 | 3.04 | 29 (50%) |
| 16 | LHG | cA | 852 | 12 | 26,26,48 | 0.94 | 1 (3%) | 29,32,54 | 1.32 | 3 (10%) |
| 12 | CLA | aA | 828 | - | 65,73,73 | 1.99 | 18 (27%) | 76,113,113 | 2.70 | 28 (36%) |
| 16 | LHG | cB | 948 | 12 | 22,22,48 | 1.05 | 1 (4%) | 25,28,54 | 1.10 | 1 (4%) |
| 12 | CLA | aB | 937 | - | 47,55,73 | 2.29 | 18 (38%) | 54,91,113 | 3.17 | 25 (46%) |
| 12 | CLA | bB | 901 | - | 65,73,73 | 1.87 | 16 (24%) | 76,113,113 | 2.71 | 28 (36%) |
| 12 | CLA | aB | 950 | 16 | 45,53,73 | 2.40 | 18 (40%) | 52,89,113 | 2.96 | 21 (40%) |
| 12 | CLA | cB | 936 | - | 59,67,73 | 2.06 | 19 (32%) | 68,105,113 | 2.88 | 29 (42%) |
| 12 | CLA | aA | 841 | 18 | 51,59,73 | 2.22 | 18 (35%) | 59,96,113 | 3.01 | 24 (40%) |
| 12 | CLA | bF | 202 | 6 | 45,53,73 | 2.40 | 16 (35%) | 52,89,113 | 3.17 | 26 (50%) |
| 12 | CLA | aB | 930 | - | 49,57,73 | 2.31 | 17 (34%) | 55,93,113 | 3.09 | 26 (47%) |
| 13 | 1L3 | cB | 940 | - | 34,34,34 | 2.30 | 9 (26%) | 42,45,45 | 1.44 | 7 (16%) |
| 12 | CLA | bA | 835 | - | 45,53,73 | 2.37 | 17 (37%) | 52,89,113 | 3.00 | 25 (48%) |
| 13 | 1L3 | bB | 940 | - | 34,34,34 | 2.31 | 9 (26%) | 42,45,45 | 1.43 | 7 (16%) |
| 12 | CLA | bB | 914 | - | 45,53,73 | 2.36 | 17 (37%) | 52,89,113 | 3.29 | 23 (44%) |
| 12 | CLA | cB | 912 | - | 65,73,73 | 1.88 | 18 (27%) | 76,113,113 | 2.59 | 26 (34%) |
| 13 | 1L3 | aB | 940 | - | 34,34,34 | 2.31 | 9 (26%) | 42,45,45 | 1.43 | 6 (14%) |
| 12 | CLA | cB | 921 | - | 55,63,73 | 2.20 | 17 (30%) | 64,101,113 | 2.96 | 26 (40%) |
| 12 | CLA | cB | 930 | - | 49,57,73 | 2.31 | 17 (34%) | 55,93,113 | 3.08 | 26 (47%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 12 | CLA | cB | 907 | - | 52,60,73 | 2.15 | 17 (32%) | 60,97,113 | 3.00 | 28 (46%) |
| 12 | CLA | aF | 202 | 6 | 45,53,73 | 2.40 | 16 (35%) | 52,89,113 | 3.17 | 26 (50%) |
| 12 | CLA | bB | 909 | - | 55,63,73 | 2.08 | 18 (32%) | 64,101,113 | 2.78 | 28 (43%) |
| 12 | CLA | aB | 904 | - | 65,73,73 | 1.98 | 17 (26%) | 76,113,113 | 2.77 | 30 (39%) |
| 12 | CLA | cA | 828 | - | 65,73,73 | 1.98 | 18 (27%) | 76,113,113 | 2.70 | 28 (36%) |
| 12 | CLA | cA | 814 | - | 45,53,73 | 2.35 | 17 (37%) | 52,89,113 | 3.04 | 24 (46%) |
| 12 | CLA | cA | 817 | - | 54,62,73 | 2.22 | 16 (29%) | 62,99,113 | 3.05 | 26 (41%) |
| 12 | CLA | bL | 204 | 18 | 45,53,73 | 2.41 | 19 (42%) | 52,89,113 | 3.22 | 24 (46%) |
| 12 | CLA | bB | 907 | - | 52,60,73 | 2.14 | 16 (30%) | 60,97,113 | 2.99 | 28 (46%) |
| 12 | CLA | cA | 837 | - | 51,59,73 | 2.23 | 17 (33%) | 59,96,113 | 3.04 | 27 (45%) |
| 12 | CLA | cA | 810 | 1 | 45,53,73 | 2.40 | 17 (37%) | 52,89,113 | 3.26 | 26 (50%) |
| 15 | BCR | cF | 203 | - | 41,41,41 | 1.09 | 2 (4%) | 56,56,56 | 1.33 | 8 (14%) |
| 12 | CLA | aB | 905 | - | 65,73,73 | 1.94 | 18 (27%) | 76,113,113 | 2.67 | 26 (34%) |
| 12 | CLA | cA | 841 | 18 | 51,59,73 | 2.22 | 18 (35%) | 59,96,113 | 3.01 | 24 (40%) |
| 12 | CLA | bA | 816 | - | 45,53,73 | 2.40 | 19 (42%) | 52,89,113 | 3.11 | 24 (46%) |
| 12 | CLA | cA | 821 | 18 | 50,58,73 | 2.21 | 15 (30%) | 58,95,113 | 2.92 | 26 (44%) |
| 12 | CLA | cB | 925 | - | 55,63,73 | 2.07 | 16 (29%) | 64,101,113 | 3.04 | 29 (45%) |
| 12 | CLA | aA | 835 | - | 45,53,73 | 2.36 | 17 (37%) | 52,89,113 | 3.00 | 25 (48%) |
| 15 | BCR | cM | 101 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.17 | 6 (10%) |
| 12 | CLA | bB | 912 | - | 65,73,73 | 1.87 | 18 (27%) | 76,113,113 | 2.59 | 26 (34%) |
| 12 | CLA | bA | 813 | - | 45,53,73 | 2.49 | 19 (42%) | 52,89,113 | 3.03 | 23 (44%) |
| 12 | CLA | aB | 920 | - | 45,53,73 | 2.41 | 16 (35%) | 52,89,113 | 3.31 | 23 (44%) |
| 12 | CLA | cA | 809 | 1 | 45,53,73 | 2.34 | 17 (37%) | 52,89,113 | 3.22 | 27 (51%) |
| 15 | BCR | bA | 850 | - | 41,41,41 | 1.05 | 2 (4%) | 56,56,56 | 1.30 | 8 (14%) |
| 12 | CLA | cB | 935 | - | 50,58,73 | 2.25 | 17 (34%) | 58,95,113 | 3.12 | 28 (48%) |
| 14 | SF4 | bA | 845 | 1,2 | 0,12,12 | - | - | - | - | - |
| 12 | CLA | cB | 916 | - | 59,67,73 | 2.03 | 17 (28%) | 68,105,113 | 2.91 | 29 (42%) |
| 12 | CLA | bB | 922 | - | 45,53,73 | 2.36 | 18 (40%) | 52,89,113 | 3.05 | 26 (50%) |
| 12 | CLA | aB | 934 | 2 | 45,53,73 | 2.49 | 16 (35%) | 52,89,113 | 3.05 | 22 (42%) |
| 12 | CLA | aB | 925 | - | 55,63,73 | 2.08 | 16 (29%) | 64,101,113 | 3.05 | 29 (45%) |
| 12 | CLA | bB | 935 | - | 50,58,73 | 2.25 | 17 (34%) | 58,95,113 | 3.12 | 28 (48%) |
| 12 | CLA | bL | 203 | - | 45,53,73 | 2.35 | 16 (35%) | 52,89,113 | 3.21 | 23 (44%) |
| 15 | BCR | aB | 943 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.17 | 4 (7%) |
| 12 | CLA | bB | 917 | - | 55,63,73 | 2.09 | 17 (30%) | 64,101,113 | 2.90 | 28 (43%) |
| 12 | CLA | cB | 922 | - | 45,53,73 | 2.37 | 17 (37%) | 52,89,113 | 3.04 | 27 (51%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 15 | BCR | bI | 101 | - | 41,41,41 | 1.12 | 2 (4%) | 56,56,56 | 1.38 | 9 (16%) |
| 12 | CLA | bB | 903 | - | 51,59,73 | 2.22 | 18 (35%) | 59,96,113 | 3.03 | 29 (49%) |
| 12 | CLA | aA | 810 | 1 | 45,53,73 | 2.41 | 18 (40%) | 52,89,113 | 3.26 | 26 (50%) |
| 12 | CLA | aA | 802 | 18 | 65,73,73 | 1.91 | 16 (24%) | 76,113,113 | 2.76 | 26 (34%) |
| 15 | BCR | aA | 847 | - | 41,41,41 | 1.07 | 2 (4%) | 56,56,56 | 1.27 | 7 (12%) |
| 12 | CLA | aB | 908 | 2 | 48,56,73 | 2.25 | 18 (37%) | 55,92,113 | 2.85 | 26 (47%) |
| 12 | CLA | bA | 834 | - | 65,73,73 | 1.93 | 16 (24%) | 76,113,113 | 2.76 | 28 (36%) |
| 12 | CLA | aB | 913 | - | 56,64,73 | 2.11 | 18 (32%) | 65,102,113 | 2.87 | 28 (43%) |
| 12 | CLA | aL | 202 | 9 | 53,61,73 | 2.20 | 19 (35%) | 61,98,113 | 3.08 | 28 (45%) |
| 12 | CLA | aA | 844 | 16 | 45,53,73 | 2.40 | 18 (40%) | 52,89,113 | 2.96 | 21 (40%) |
| 12 | CLA | bA | 843 | 18 | 65,73,73 | 1.92 | 17 (26%) | 76,113,113 | 2.80 | 30 (39%) |
| 12 | CLA | bA | 807 | - | 65,73,73 | 1.96 | 16 (24%) | 76,113,113 | 2.74 | 30 (39%) |
| 12 | CLA | cA | 838 | - | 65,73,73 | 1.91 | 17 (26%) | 76,113,113 | 2.76 | 25 (32%) |
| 15 | BCR | aL | 206 | - | 41,41,41 | 1.04 | 2 (4%) | 56,56,56 | 1.19 | 4 (7%) |
| 12 | CLA | cA | 829 | - | 60,68,73 | 2.02 | 16 (26%) | 70,107,113 | 2.66 | 29 (41%) |
| 12 | CLA | cA | 812 | - | 65,73,73 | 1.94 | 17 (26%) | 76,113,113 | 2.71 | 30 (39%) |
| 12 | CLA | bB | 928 | - | 50,58,73 | 2.27 | 19 (38%) | 58,95,113 | 3.03 | 29 (50%) |
| 12 | CLA | bA | 821 | 18 | 50,58,73 | 2.20 | 15 (30%) | 58,95,113 | 2.91 | 26 (44%) |
| 12 | CLA | cA | 808 | - | 51,59,73 | 2.26 | 17 (33%) | 59,96,113 | 3.00 | 29 (49%) |
| 14 | SF4 | bC | 102 | 3 | 0,12,12 | - | - | - | - | - |
| 12 | CLA | cA | 832 | - | 55,63,73 | 2.17 | 17 (30%) | 64,101,113 | 2.95 | 30 (46%) |
| 12 | CLA | aA | 854 | 18 | 56,64,73 | 2.05 | 17 (30%) | 65,102,113 | 2.99 | 27 (41%) |
| 12 | CLA | cA | 839 | - | 45,53,73 | 2.30 | 17 (37%) | 52,89,113 | 3.21 | 24 (46%) |
| 12 | CLA | bA | 809 | 1 | 45,53,73 | 2.34 | 17 (37%) | 52,89,113 | 3.22 | 27 (51%) |
| 12 | CLA | cA | 819 | - | 60,68,73 | 2.03 | 16 (26%) | 70,107,113 | 3.01 | 34 (48%) |
| 13 | 1L3 | aA | 845 | - | 34,34,34 | 2.31 | 9 (26%) | 42,45,45 | 1.61 | 10 (23%) |
| 12 | CLA | bA | 842 | - | 65,73,73 | 1.94 | 18 (27%) | 76,113,113 | 2.71 | 27 (35%) |
| 12 | CLA | bA | 840 | - | 65,73,73 | 1.99 | 17 (26%) | 76,113,113 | 2.59 | 27 (35%) |
| 16 | LHG | cA | 851 | - | 48,48,48 | 0.65 | 1 (2%) | 51,54,54 | 1.27 | 6 (11%) |
| 12 | CLA | bA | 811 | - | 45,53,73 | 2.43 | 16 (35%) | 52,89,113 | 3.15 | 25 (48%) |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 12 | CLA | bB | 936 | - | 1/1/13/20 | 7/30/108/115 | - |
| 16 | LHG | bA | 852 | 12 | - | 11/31/31/53 | - |
| 12 | CLA | aB | 916 | - | - | 7/30/108/115 | - |
| 12 | CLA | cB | 914 | - | 1/1/11/20 | 6/13/91/115 | - |
| 16 | LHG | aA | 853 | 12 | - | 11/31/31/53 | - |
| 12 | CLA | bA | 831 | - | - | 4/19/97/115 | - |
| 12 | CLA | cA | 806 | - | 1/1/15/20 | 11/37/115/115 | - |
| 12 | CLA | bA | 808 | - | 1/1/12/20 | 7/21/99/115 | - |
| 12 | CLA | bB | 937 | - | 1/1/11/20 | 1/16/94/115 | - |
| 15 | BCR | cB | 944 | - | - | 16/29/63/63 | 0/2/2/2 |
| 12 | CLA | cL | 202 | 9 | - | 2/23/101/115 | - |
| 12 | CLA | aA | 803 | - | 1/1/15/20 | 7/37/115/115 | - |
| 12 | CLA | aA | 839 | - | 1/1/11/20 | 7/13/91/115 | - |
| 12 | CLA | aB | 939 | - | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | aB | 928 | - | 1/1/12/20 | 4/19/97/115 | - |
| 12 | CLA | cB | 909 | - | 1/1/13/20 | 9/25/103/115 | - |
| 15 | BCR | aA | 849 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 903 | - | 1/1/12/20 | 5/21/99/115 | - |
| 15 | BCR | bF | 201 | - | - | 9/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 925 | - | 1/1/13/20 | 5/25/103/115 | - |
| 12 | CLA | bA | 804 | - | 1/1/13/20 | 7/27/105/115 | - |
| 12 | CLA | bA | 838 | - | 1/1/15/20 | 8/37/115/115 | - |
| 12 | CLA | aA | 808 | - | 1/1/12/20 | 7/21/99/115 | - |
| 12 | CLA | aA | 805 | - | 1/1/12/20 | 6/23/101/115 | - |
| 12 | CLA | aA | 820 | - | 1/1/13/20 | 11/27/105/115 | - |
| 12 | CLA | aB | 919 | - | 1/1/11/20 | 5/16/94/115 | - |
| 12 | CLA | cA | 803 | - | 1/1/15/20 | 7/37/115/115 | - |
| 15 | BCR | bJ | 101 | - | - | 13/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 929 | - | - | 5/13/91/115 | - |
| 12 | CLA | aB | 921 | - | - | 8/25/103/115 | - |
| 15 | BCR | cA | 849 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | aL | 203 | - | - | 4/13/91/115 | - |
| 13 | 1L3 | cA | 844 | - | - | 3/23/43/43 | 0/2/2/2 |
| 12 | CLA | bB | 926 | - | 1/1/15/20 | 21/37/115/115 | - |
| 12 | CLA | aA | 840 | - | 1/1/15/20 | 9/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 12 | CLA | aA | 811 | - | 1/1/11/20 | 5/13/91/115 | - |
| 12 | CLA | cA | 818 | - | 1/1/12/20 | 12/24/102/115 | - |
| 12 | CLA | cF | 202 | 6 | 1/1/11/20 | 9/13/91/115 | - |
| 12 | CLA | cL | 204 | 18 | - | 0/13/91/115 | - |
| 12 | CLA | cA | 843 | 18 | 1/1/15/20 | 10/37/115/115 | - |
| 12 | CLA | aA | 817 | - | - | 7/24/102/115 | - |
| 12 | CLA | aB | 915 | - | - | 9/22/100/115 | - |
| 15 | BCR | cA | 846 | - | - | 11/29/63/63 | 0/2/2/2 |
| 11 | CL0 | cA | 801 | - | 3/3/20/25 | 5/37/135/135 | - |
| 12 | CLA | bB | 919 | - | 1/1/11/20 | 5/16/94/115 | - |
| 12 | CLA | aA | 837 | - | 1/1/12/20 | 7/21/99/115 | - |
| 12 | CLA | cB | 939 | - | 1/1/11/20 | 3/13/91/115 | - |
| 15 | BCR | bF | 204 | - | - | 6/29/63/63 | 0/2/2/2 |
| 12 | CLA | cB | 937 | - | 1/1/11/20 | 0/16/94/115 | - |
| 12 | CLA | bB | 921 | - | - | 8/25/103/115 | - |
| 12 | CLA | cB | 920 | - | - | 3/13/91/115 | - |
| 12 | CLA | aA | 825 | 18 | 1/1/15/20 | 12/37/115/115 | - |
| 15 | BCR | aL | 205 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | cA | 820 | - | 1/1/13/20 | 11/27/105/115 | - |
| 12 | CLA | aB | 923 | 18 | 1/1/12/20 | 10/24/102/115 | - |
| 12 | CLA | cB | 906 | - | 1/1/13/20 | 1/25/103/115 | - |
| 12 | CLA | bB | 927 | - | 1/1/15/20 | 12/37/115/115 | - |
| 15 | BCR | bA | 846 | - | - | 11/29/63/63 | 0/2/2/2 |
| 15 | BCR | cF | 201 | - | - | 9/29/63/63 | 0/2/2/2 |
| 12 | CLA | aA | 809 | 1 | 1/1/11/20 | 5/13/91/115 | - |
| 12 | CLA | aB | 902 | - | 1/1/14/20 | 7/33/111/115 | - |
| 12 | CLA | bA | 853 | 18 | 1/1/13/20 | 6/27/105/115 | - |
| 12 | CLA | cA | 804 | - | 1/1/13/20 | 7/27/105/115 | - |
| 15 | BCR | cA | 850 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 927 | - | 1/1/15/20 | 12/37/115/115 | - |
| 15 | BCR | aB | 944 | - | - | 16/29/63/63 | 0/2/2/2 |
| 15 | BCR | cI | 101 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 905 | - | 1/1/15/20 | 13/37/115/115 | - |
| 12 | CLA | aA | 830 | - | 1/1/15/20 | 11/37/115/115 | - |
| 12 | CLA | aA | 824 | - | - | 6/16/94/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 12 | CLA | aB | 949 | 16 | 1/1/10/20 | 3/8/86/115 | - |
| 12 | CLA | cB | 923 | 18 | 1/1/12/20 | 10/24/102/115 | - |
| 12 | CLA | cA | 827 | - | 1/1/11/20 | 6/15/93/115 | - |
| 12 | CLA | aA | 834 | - | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | bA | 806 | - | 1/1/15/20 | 11/37/115/115 | - |
| 13 | 1L3 | bA | 844 | - | - | 3/23/43/43 | 0/2/2/2 |
| 12 | CLA | bB | 920 | - | - | 3/13/91/115 | - |
| 12 | CLA | bA | 823 | - | 1/1/12/20 | 6/21/99/115 | - |
| 12 | CLA | bB | 918 | 18 | 1/1/11/20 | 1/15/93/115 | - |
| 12 | CLA | aA | 821 | 18 | 1/1/12/20 | 4/19/97/115 | - |
| 12 | CLA | cB | 924 | 18 | 1/1/11/20 | 2/15/93/115 | - |
| 12 | CLA | aB | 906 | - | 1/1/13/20 | 1/25/103/115 | - |
| 12 | CLA | cB | 927 | - | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | bA | 828 | - | 1/1/15/20 | 3/37/115/115 | - |
| 15 | BCR | bA | 848 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 904 | - | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | cB | 919 | - | 1/1/11/20 | 5/16/94/115 | - |
| 15 | BCR | bL | 206 | - | - | 6/29/63/63 | 0/2/2/2 |
| 16 | LHG | bA | 851 | - | - | 23/53/53/53 | - |
| 12 | CLA | bA | 829 | - | 1/1/14/20 | 6/31/109/115 | - |
| 12 | CLA | bA | 839 | - | 1/1/11/20 | 7/13/91/115 | - |
| 12 | CLA | aA | 812 | - | 1/1/15/20 | 10/37/115/115 | - |
| 12 | CLA | bB | 908 | 2 | 1/1/11/20 | 8/17/95/115 | - |
| 12 | CLA | cB | 911 | - | - | 0/13/91/115 | - |
| 12 | CLA | cA | 834 | - | 1/1/15/20 | 12/37/115/115 | - |
| 15 | BCR | aB | 946 | - | - | 4/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 931 | - | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | cA | 825 | 18 | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | aA | 819 | - | 1/1/14/20 | 4/31/109/115 | - |
| 12 | CLA | aA | 829 | - | 1/1/14/20 | 6/31/109/115 | - |
| 12 | CLA | bA | 820 | - | 1/1/13/20 | 11/27/105/115 | - |
| 12 | CLA | aB | 911 | - | - | 0/13/91/115 | - |
| 12 | CLA | cA | 811 | - | 1/1/11/20 | 5/13/91/115 | - |
| 15 | BCR | aF | 204 | - | - | 6/29/63/63 | 0/2/2/2 |
| 12 | CLA | cB | 913 | - | 1/1/13/20 | 6/27/105/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 12 | CLA | bA | 837 | - | 1/1/12/20 | 7/21/99/115 | - |
| 12 | CLA | bA | 827 | - | 1/1/11/20 | 6/15/93/115 | - |
| 12 | CLA | bA | 826 | 18 | 1/1/13/20 | 6/25/103/115 | - |
| 12 | CLA | bA | 836 | 1 | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | bB | 906 | - | 1/1/13/20 | 1/25/103/115 | - |
| 12 | CLA | cB | 910 | - | 1/1/11/20 | 2/13/91/115 | - |
| 12 | CLA | bB | 910 | - | 1/1/11/20 | 2/13/91/115 | - |
| 12 | CLA | aB | 918 | 18 | 1/1/11/20 | 1/15/93/115 | - |
| 12 | CLA | cA | 815 | - | - | 4/13/91/115 | - |
| 12 | CLA | aA | 806 | - | 1/1/15/20 | 11/37/115/115 | - |
| 12 | CLA | bB | 915 | - | - | 9/22/100/115 | - |
| 12 | CLA | bB | 911 | - | - | 0/13/91/115 | - |
| 15 | BCR | aM | 101 | - | - | 18/29/63/63 | 0/2/2/2 |
| 12 | CLA | bA | 803 | - | 1/1/15/20 | 7/37/115/115 | - |
| 12 | CLA | aA | 832 | - | 1/1/13/20 | 9/25/103/115 | - |
| 12 | CLA | aA | 833 | - | 1/1/12/20 | 3/21/99/115 | - |
| 12 | CLA | cA | 816 | - | 1/1/11/20 | 5/13/91/115 | - |
| 15 | BCR | bA | 849 | - | - | 11/29/63/63 | 0/2/2/2 |
| 14 | SF4 | cC | 102 | 3 | - | - | 0/6/5/5 |
| 15 | BCR | aA | 848 | - | - | 7/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 923 | 18 | 1/1/12/20 | 10/24/102/115 | - |
| 15 | BCR | aA | 851 | - | - | 10/29/63/63 | 0/2/2/2 |
| 15 | BCR | aF | 201 | - | - | 9/29/63/63 | 0/2/2/2 |
| 11 | CL0 | bA | 801 | - | 3/3/20/25 | 5/37/135/135 | - |
| 12 | CLA | bB | 902 | - | 1/1/14/20 | 7/33/111/115 | - |
| 12 | CLA | cB | 932 | - | - | 2/13/91/115 | - |
| 12 | CLA | bA | 832 | - | 1/1/13/20 | 9/25/103/115 | - |
| 12 | CLA | cA | 822 | - | - | 8/18/96/115 | - |
| 15 | BCR | cB | 941 | - | - | 10/29/63/63 | 0/2/2/2 |
| 15 | BCR | cL | 206 | - | - | 6/29/63/63 | 0/2/2/2 |
| 12 | CLA | cB | 917 | - | 1/1/13/20 | 8/25/103/115 | - |
| 16 | LHG | bB | 948 | 12 | - | 8/26/26/53 | - |
| 15 | BCR | bL | 201 | - | - | 7/29/63/63 | 0/2/2/2 |
| 12 | CLA | cA | 823 | - | 1/1/12/20 | 6/21/99/115 | - |
| 12 | CLA | aB | 933 | 18 | 1/1/11/20 | 3/13/91/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 12 | CLA | cB | 949 | 16 | 1/1/10/20 | 3/8/86/115 | - |
| 12 | CLA | bA | 819 | - | 1/1/14/20 | 4/31/109/115 | - |
| 12 | CLA | cA | 835 | - | 1/1/11/20 | 0/13/91/115 | - |
| 12 | CLA | aB | 910 | - | 1/1/11/20 | 2/13/91/115 | - |
| 12 | CLA | aA | 842 | - | 1/1/15/20 | 14/37/115/115 | - |
| 12 | CLA | cA | 853 | 18 | 1/1/13/20 | 6/27/105/115 | - |
| 12 | CLA | cB | 933 | 18 | 1/1/11/20 | 3/13/91/115 | - |
| 17 | LMG | aB | 947 | - | - | 12/38/58/70 | 0/1/1/1 |
| 15 | BCR | aB | 945 | - | - | 9/29/63/63 | 0/2/2/2 |
| 16 | LHG | aB | 948 | 12 | - | 8/26/26/53 | - |
| 12 | CLA | bB | 950 | 16 | - | 6/13/91/115 | - |
| 12 | CLA | cA | 802 | 18 | 1/1/15/20 | 5/37/115/115 | - |
| 15 | BCR | bB | 942 | - | - | 9/29/63/63 | 0/2/2/2 |
| 12 | CLA | bA | 830 | - | 1/1/15/20 | 11/37/115/115 | - |
| 12 | CLA | aA | 843 | 18 | 1/1/15/20 | 10/37/115/115 | - |
| 12 | CLA | cL | 203 | - | - | 4/13/91/115 | - |
| 11 | CL0 | aA | 801 | - | 3/3/20/25 | 5/37/135/135 | - |
| 15 | BCR | aL | 201 | - | - | 7/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 930 | - | 1/1/11/20 | 4/18/96/115 | - |
| 12 | CLA | aA | 831 | - | - | 4/19/97/115 | - |
| 15 | BCR | aJ | 101 | - | - | 13/29/63/63 | 0/2/2/2 |
| 15 | BCR | bL | 205 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | aA | 813 | - | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | aB | 926 | - | 1/1/15/20 | 21/37/115/115 | - |
| 12 | CLA | cB | 929 | - | - | 5/13/91/115 | - |
| 15 | BCR | aF | 203 | - | - | 15/29/63/63 | 0/2/2/2 |
| 12 | CLA | bA | 825 | 18 | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | bA | 814 | - | 1/1/11/20 | 6/13/91/115 | - |
| 15 | BCR | cL | 205 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 924 | 18 | 1/1/11/20 | 2/15/93/115 | - |
| 12 | CLA | bA | 805 | - | 1/1/12/20 | 6/23/101/115 | - |
| 15 | BCR | cB | 946 | - | - | 4/29/63/63 | 0/2/2/2 |
| 12 | CLA | bA | 810 | 1 | 1/1/11/20 | 5/13/91/115 | - |
| 12 | CLA | cB | 901 | - | 1/1/15/20 | 6/37/115/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 12 | CLA | cB | 903 | - | 1/1/12/20 | 5/21/99/115 | - |
| 15 | BCR | aI | 101 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | aA | 804 | - | 1/1/13/20 | 7/27/105/115 | - |
| 12 | CLA | aA | 827 | - | 1/1/11/20 | 6/15/93/115 | - |
| 12 | CLA | cB | 908 | 2 | 1/1/11/20 | 8/17/95/115 | - |
| 12 | CLA | aL | 204 | 18 | - | 0/13/91/115 | - |
| 15 | BCR | aB | 942 | - | - | 9/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 913 | - | 1/1/13/20 | 6/27/105/115 | - |
| 12 | CLA | cA | 813 | - | 1/1/11/20 | 3/13/91/115 | - |
| 15 | BCR | bA | 847 | - | - | 7/29/63/63 | 0/2/2/2 |
| 14 | SF4 | aC | 101 | 3 | - | - | 0/6/5/5 |
| 14 | SF4 | cC | 101 | 3 | - | - | 0/6/5/5 |
| 15 | BCR | bB | 944 | - | - | 16/29/63/63 | 0/2/2/2 |
| 14 | SF4 | bC | 101 | 3 | - | - | 0/6/5/5 |
| 15 | BCR | cB | 942 | - | - | 9/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 935 | - | 1/1/12/20 | 7/19/97/115 | - |
| 12 | CLA | cB | 915 | - | - | 9/22/100/115 | - |
| 12 | CLA | bA | 802 | 18 | 1/1/15/20 | 5/37/115/115 | - |
| 12 | CLA | aA | 836 | 1 | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | bB | 931 | - | 1/1/15/20 | 12/37/115/115 | - |
| 15 | BCR | cL | 201 | - | - | 7/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 922 | - | 1/1/11/20 | 7/13/91/115 | - |
| 15 | BCR | bF | 203 | - | - | 15/29/63/63 | 0/2/2/2 |
| 12 | CLA | bA | 815 | - | - | 4/13/91/115 | - |
| 12 | CLA | aB | 912 | - | 1/1/15/20 | 15/37/115/115 | - |
| 12 | CLA | cB | 902 | - | 1/1/14/20 | 7/33/111/115 | - |
| 12 | CLA | cB | 926 | - | 1/1/15/20 | 21/37/115/115 | - |
| 12 | CLA | bA | 841 | 18 | 1/1/12/20 | 5/21/99/115 | - |
| 12 | CLA | cA | 830 | - | 1/1/15/20 | 11/37/115/115 | - |
| 12 | CLA | cB | 904 | - | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | bA | 833 | - | 1/1/12/20 | 3/21/99/115 | - |
| 12 | CLA | cB | 918 | 18 | 1/1/11/20 | 1/15/93/115 | - |
| 12 | CLA | bA | 817 | - | - | 7/24/102/115 | - |
| 12 | CLA | cA | 833 | - | 1/1/12/20 | 3/21/99/115 | - |
| 12 | CLA | aA | 816 | - | 1/1/11/20 | 5/13/91/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 15 | BCR | bB | 943 | - | - | 9/29/63/63 | 0/2/2/2 |
| 17 | LMG | bB | 947 | - | - | 12/38/58/70 | 0/1/1/1 |
| 12 | CLA | aA | 822 | - | - | 8/18/96/115 | - |
| 15 | BCR | cF | 204 | - | - | 6/29/63/63 | 0/2/2/2 |
| 12 | CLA | bL | 202 | 9 | - | 2/23/101/115 | - |
| 12 | CLA | aB | 938 | 18 | 1/1/12/20 | 1/21/99/115 | - |
| 12 | CLA | cA | 836 | 1 | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | cB | 905 | - | 1/1/15/20 | 13/37/115/115 | - |
| 15 | BCR | aA | 850 | - | - | 10/29/63/63 | 0/2/2/2 |
| 15 | BCR | cA | 847 | - | - | 7/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 939 | - | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | aB | 909 | - | 1/1/13/20 | 9/25/103/115 | - |
| 12 | CLA | cB | 934 | 2 | 1/1/11/20 | 4/13/91/115 | - |
| 12 | CLA | aA | 823 | - | 1/1/12/20 | 6/21/99/115 | - |
| 12 | CLA | bB | 934 | 2 | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | bB | 949 | 16 | 1/1/10/20 | 3/8/86/115 | - |
| 12 | CLA | aB | 936 | - | 1/1/13/20 | 7/30/108/115 | - |
| 14 | SF4 | aC | 102 | 3 | - | - | 0/6/5/5 |
| 12 | CLA | bB | 938 | 18 | 1/1/12/20 | 1/21/99/115 | - |
| 12 | CLA | bB | 916 | - | - | 7/30/108/115 | - |
| 12 | CLA | cA | 840 | - | 1/1/15/20 | 9/37/115/115 | - |
| 12 | CLA | aA | 826 | 18 | 1/1/13/20 | 6/25/103/115 | - |
| 12 | CLA | aB | 914 | - | 1/1/11/20 | 6/13/91/115 | - |
| 12 | CLA | bB | 932 | - | - | 2/13/91/115 | - |
| 12 | CLA | cA | 831 | - | - | 4/19/97/115 | - |
| 12 | CLA | aB | 907 | - | 1/1/12/20 | 5/22/100/115 | - |
| 15 | BCR | aB | 941 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | aA | 807 | - | 1/1/15/20 | 13/37/115/115 | - |
| 12 | CLA | aA | 815 | - | - | 4/13/91/115 | - |
| 12 | CLA | cA | 826 | 18 | 1/1/13/20 | 6/25/103/115 | - |
| 12 | CLA | cA | 824 | - | - | 6/16/94/115 | - |
| 12 | CLA | aA | 814 | - | 1/1/11/20 | 6/13/91/115 | - |
| 12 | CLA | cB | 931 | - | 1/1/15/20 | 12/37/115/115 | - |
| 15 | BCR | cB | 945 | - | - | 9/29/63/63 | 0/2/2/2 |
| 15 | BCR | bB | 945 | - | - | 10/29/63/63 | 0/2/2/2 |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 15 | BCR | cA | 848 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 933 | 18 | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | aA | 818 | - | 1/1/12/20 | 12/24/102/115 | - |
| 12 | CLA | bA | 812 | - | 1/1/15/20 | 10/37/115/115 | - |
| 15 | BCR | bB | 941 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 929 | - | - | 5/13/91/115 | - |
| 12 | CLA | aB | 932 | - | - | 2/13/91/115 | - |
| 16 | LHG | aA | 852 | - | - | 22/53/53/53 | - |
| 12 | CLA | bA | 818 | - | 1/1/12/20 | 12/24/102/115 | - |
| 15 | BCR | bM | 101 | - | - | 18/29/63/63 | 0/2/2/2 |
| 15 | BCR | cB | 943 | - | - | 9/29/63/63 | 0/2/2/2 |
| 17 | LMG | cB | 947 | - | - | 12/38/58/70 | 0/1/1/1 |
| 15 | BCR | cJ | 101 | - | - | 13/29/63/63 | 0/2/2/2 |
| 14 | SF4 | aA | 846 | 1,2 | - | - | 0/6/5/5 |
| 12 | CLA | cB | 938 | 18 | 1/1/12/20 | 1/21/99/115 | - |
| 12 | CLA | cA | 807 | - | 1/1/15/20 | 13/37/115/115 | - |
| 12 | CLA | aA | 838 | - | 1/1/15/20 | 8/37/115/115 | - |
| 15 | BCR | bB | 946 | - | - | 4/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 917 | - | 1/1/13/20 | 8/25/103/115 | - |
| 12 | CLA | cA | 805 | - | 1/1/12/20 | 6/23/101/115 | - |
| 12 | CLA | bA | 822 | - | - | 8/18/96/115 | - |
| 12 | CLA | aB | 901 | - | 1/1/15/20 | 6/37/115/115 | - |
| 12 | CLA | cA | 842 | - | 1/1/15/20 | 14/37/115/115 | - |
| 14 | SF4 | cA | 845 | 1,2 | - | - | 0/6/5/5 |
| 12 | CLA | aB | 924 | 18 | 1/1/11/20 | 2/15/93/115 | - |
| 12 | CLA | bA | 824 | - | - | 6/16/94/115 | - |
| 12 | CLA | cB | 928 | - | 1/1/12/20 | 4/19/97/115 | - |
| 16 | LHG | cA | 852 | 12 | - | 11/31/31/53 | - |
| 12 | CLA | aA | 828 | - | 1/1/15/20 | 3/37/115/115 | - |
| 16 | LHG | cB | 948 | 12 | - | 8/26/26/53 | - |
| 12 | CLA | aB | 937 | - | 1/1/11/20 | 1/16/94/115 | - |
| 12 | CLA | bB | 901 | - | 1/1/15/20 | 6/37/115/115 | - |
| 12 | CLA | cB | 936 | - | 1/1/13/20 | 7/30/108/115 | - |
| 12 | CLA | aB | 950 | 16 | - | 7/13/91/115 | - |
| 12 | CLA | aA | 841 | 18 | 1/1/12/20 | 5/21/99/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 12 | CLA | bF | 202 | 6 | 1/1/11/20 | 9/13/91/115 | - |
| 12 | CLA | aB | 930 | - | 1/1/11/20 | 4/18/96/115 | - |
| 13 | 1L3 | cB | 940 | - | - | 1/23/43/43 | 0/2/2/2 |
| 12 | CLA | bA | 835 | - | 1/1/11/20 | 0/13/91/115 | - |
| 13 | 1L3 | bB | 940 | - | - | 1/23/43/43 | 0/2/2/2 |
| 12 | CLA | bB | 914 | - | 1/1/11/20 | 6/13/91/115 | - |
| 12 | CLA | cB | 912 | - | 1/1/15/20 | 15/37/115/115 | - |
| 13 | 1L3 | aB | 940 | - | - | 1/23/43/43 | 0/2/2/2 |
| 12 | CLA | cB | 921 | - | - | 8/25/103/115 | - |
| 12 | CLA | cB | 930 | - | 1/1/11/20 | 4/18/96/115 | - |
| 12 | CLA | cB | 907 | - | 1/1/12/20 | 5/22/100/115 | - |
| 12 | CLA | aF | 202 | 6 | 1/1/11/20 | 9/13/91/115 | - |
| 12 | CLA | bB | 909 | - | 1/1/13/20 | 9/25/103/115 | - |
| 12 | CLA | aB | 904 | - | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | cA | 828 | - | 1/1/15/20 | 3/37/115/115 | - |
| 12 | CLA | cA | 814 | - | 1/1/11/20 | 6/13/91/115 | - |
| 12 | CLA | cA | 817 | - | - | 7/24/102/115 | - |
| 12 | CLA | bL | 204 | 18 | - | 0/13/91/115 | - |
| 12 | CLA | bB | 907 | - | 1/1/12/20 | 6/22/100/115 | - |
| 12 | CLA | cA | 837 | - | 1/1/12/20 | 7/21/99/115 | - |
| 12 | CLA | cA | 810 | 1 | 1/1/11/20 | 5/13/91/115 | - |
| 15 | BCR | cF | 203 | - | - | 15/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 905 | - | 1/1/15/20 | 13/37/115/115 | - |
| 12 | CLA | cA | 841 | 18 | 1/1/12/20 | 5/21/99/115 | - |
| 12 | CLA | bA | 816 | - | 1/1/11/20 | 6/13/91/115 | - |
| 12 | CLA | cA | 821 | 18 | 1/1/12/20 | 4/19/97/115 | - |
| 12 | CLA | cB | 925 | - | 1/1/13/20 | 5/25/103/115 | - |
| 12 | CLA | aA | 835 | - | 1/1/11/20 | 0/13/91/115 | - |
| 15 | BCR | cM | 101 | - | - | 18/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 912 | - | 1/1/15/20 | 15/37/115/115 | - |
| 12 | CLA | bA | 813 | - | 1/1/11/20 | 3/13/91/115 | - |
| 12 | CLA | aB | 920 | - | - | 3/13/91/115 | - |
| 12 | CLA | cA | 809 | 1 | 1/1/11/20 | 5/13/91/115 | - |
| 15 | BCR | bA | 850 | - | - | 9/29/63/63 | 0/2/2/2 |
| 12 | CLA | cB | 935 | - | 1/1/12/20 | 7/19/97/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 14 | SF4 | bA | 845 | 1,2 | - | - | 0/6/5/5 |
| 12 | CLA | cB | 916 | - | - | 7/30/108/115 | - |
| 12 | CLA | bB | 922 | - | 1/1/11/20 | 7/13/91/115 | - |
| 12 | CLA | aB | 934 | 2 | 1/1/11/20 | 4/13/91/115 | - |
| 12 | CLA | aB | 925 | - | 1/1/13/20 | 5/25/103/115 | - |
| 12 | CLA | bB | 935 | - | 1/1/12/20 | 7/19/97/115 | - |
| 12 | CLA | bL | 203 | - | - | 4/13/91/115 | - |
| 15 | BCR | aB | 943 | - | - | 9/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 917 | - | 1/1/13/20 | 8/25/103/115 | - |
| 12 | CLA | cB | 922 | - | 1/1/11/20 | 7/13/91/115 | - |
| 15 | BCR | bI | 101 | - | - | 10/29/63/63 | 0/2/2/2 |
| 12 | CLA | bB | 903 | - | 1/1/12/20 | 5/21/99/115 | - |
| 12 | CLA | aA | 810 | 1 | 1/1/11/20 | 5/13/91/115 | - |
| 12 | CLA | aA | 802 | 18 | 1/1/15/20 | 5/37/115/115 | - |
| 15 | BCR | aA | 847 | - | - | 11/29/63/63 | 0/2/2/2 |
| 12 | CLA | aB | 908 | 2 | 1/1/11/20 | 8/17/95/115 | - |
| 12 | CLA | bA | 834 | - | 1/1/15/20 | 12/37/115/115 | - |
| 12 | CLA | aB | 913 | - | 1/1/13/20 | 6/27/105/115 | - |
| 12 | CLA | aL | 202 | 9 | - | 2/23/101/115 | - |
| 12 | CLA | aA | 844 | 16 | - | 6/13/91/115 | - |
| 12 | CLA | bA | 843 | 18 | 1/1/15/20 | 10/37/115/115 | - |
| 12 | CLA | bA | 807 | - | 1/1/15/20 | 13/37/115/115 | - |
| 12 | CLA | cA | 838 | - | 1/1/15/20 | 8/37/115/115 | - |
| 15 | BCR | aL | 206 | - | - | 6/29/63/63 | 0/2/2/2 |
| 12 | CLA | cA | 829 | - | 1/1/14/20 | 6/31/109/115 | - |
| 12 | CLA | cA | 812 | - | 1/1/15/20 | 10/37/115/115 | - |
| 12 | CLA | bB | 928 | - | 1/1/12/20 | 4/19/97/115 | - |
| 12 | CLA | bA | 821 | 18 | 1/1/12/20 | 4/19/97/115 | - |
| 12 | CLA | cA | 808 | - | 1/1/12/20 | 7/21/99/115 | - |
| 14 | SF4 | bC | 102 | 3 | - | - | 0/6/5/5 |
| 12 | CLA | cA | 832 | - | 1/1/13/20 | 9/25/103/115 | - |
| 12 | CLA | aA | 854 | 18 | 1/1/13/20 | 6/27/105/115 | - |
| 12 | CLA | cA | 839 | - | 1/1/11/20 | 7/13/91/115 | - |
| 12 | CLA | bA | 809 | 1 | 1/1/11/20 | 5/13/91/115 | - |

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| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 12 | CLA | cA | 819 | - | 1/1/14/20 | 4/31/109/115 | - |
| 13 | 1L3 | aA | 845 | - | - | 3/23/43/43 | 0/2/2/2 |
| 12 | CLA | bA | 842 | - | 1/1/15/20 | 14/37/115/115 | - |
| 12 | CLA | bA | 840 | - | 1/1/15/20 | 9/37/115/115 | - |
| 16 | LHG | cA | 851 | - | - | 22/53/53/53 | - |
| 12 | CLA | bA | 811 | - | 1/1/11/20 | 5/13/91/115 | - |

All (4748) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 13 | bB | 940 | 1L3 | C03-C02 | 7.88 | 1.49 | 1.35 |
| 13 | aB | 940 | 1L3 | C03-C02 | 7.85 | 1.49 | 1.35 |
| 13 | cB | 940 | 1L3 | C03-C02 | 7.83 | 1.49 | 1.35 |
| 13 | bA | 844 | 1L3 | C03-C02 | 7.76 | 1.49 | 1.35 |
| 13 | cA | 844 | 1L3 | C03-C02 | 7.74 | 1.49 | 1.35 |
| 13 | aA | 845 | 1L3 | C03-C02 | 7.74 | 1.49 | 1.35 |
| 12 | bA | 813 | CLA | C3B-C2B | 6.57 | 1.49 | 1.40 |
| 12 | cA | 813 | CLA | C3B-C2B | 6.53 | 1.49 | 1.40 |
| 12 | aA | 813 | CLA | C3B-C2B | 6.52 | 1.49 | 1.40 |
| 12 | aA | 844 | CLA | C3B-C2B | 6.35 | 1.49 | 1.40 |
| 12 | aB | 950 | CLA | C3B-C2B | 6.35 | 1.49 | 1.40 |
| 12 | cB | 922 | CLA | C3B-C2B | 6.34 | 1.49 | 1.40 |
| 12 | aB | 922 | CLA | C3B-C2B | 6.33 | 1.49 | 1.40 |
| 12 | bB | 950 | CLA | C3B-C2B | 6.32 | 1.49 | 1.40 |
| 12 | bB | 922 | CLA | C3B-C2B | 6.30 | 1.49 | 1.40 |
| 12 | cA | 822 | CLA | C3B-C2B | 6.28 | 1.49 | 1.40 |
| 12 | aB | 924 | CLA | C3B-C2B | 6.23 | 1.49 | 1.40 |
| 12 | bB | 924 | CLA | C3B-C2B | 6.22 | 1.49 | 1.40 |
| 12 | aB | 904 | CLA | C3B-C2B | 6.22 | 1.49 | 1.40 |
| 12 | aA | 822 | CLA | C3B-C2B | 6.22 | 1.49 | 1.40 |
| 12 | bB | 904 | CLA | C3B-C2B | 6.21 | 1.49 | 1.40 |
| 12 | bA | 822 | CLA | C3B-C2B | 6.20 | 1.49 | 1.40 |
| 12 | cB | 904 | CLA | C3B-C2B | 6.19 | 1.49 | 1.40 |
| 12 | bA | 806 | CLA | C3B-C2B | 6.17 | 1.48 | 1.40 |
| 12 | cB | 924 | CLA | C3B-C2B | 6.16 | 1.48 | 1.40 |
| 12 | aB | 920 | CLA | C3B-C2B | 6.16 | 1.48 | 1.40 |
| 12 | cA | 837 | CLA | C3B-C2B | 6.15 | 1.48 | 1.40 |
| 12 | bA | 817 | CLA | C3B-C2B | 6.15 | 1.48 | 1.40 |
| 12 | bA | 837 | CLA | C3B-C2B | 6.15 | 1.48 | 1.40 |
| 12 | aA | 817 | CLA | C3B-C2B | 6.13 | 1.48 | 1.40 |
| 12 | bB | 913 | CLA | C3B-C2B | 6.13 | 1.48 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cA | 817 | CLA | C3B-C2B | 6.12 | 1.48 | 1.40 |
| 12 | cL | 204 | CLA | C3B-C2B | 6.12 | 1.48 | 1.40 |
| 12 | cA | 806 | CLA | C3B-C2B | 6.12 | 1.48 | 1.40 |
| 12 | aA | 837 | CLA | C3B-C2B | 6.12 | 1.48 | 1.40 |
| 12 | cB | 913 | CLA | C3B-C2B | 6.11 | 1.48 | 1.40 |
| 12 | bB | 920 | CLA | C3B-C2B | 6.11 | 1.48 | 1.40 |
| 12 | cB | 920 | CLA | C3B-C2B | 6.10 | 1.48 | 1.40 |
| 12 | aA | 806 | CLA | C3B-C2B | 6.10 | 1.48 | 1.40 |
| 12 | aB | 913 | CLA | C3B-C2B | 6.09 | 1.48 | 1.40 |
| 12 | bA | 804 | CLA | C3B-C2B | 6.08 | 1.48 | 1.40 |
| 12 | bL | 204 | CLA | C3B-C2B | 6.08 | 1.48 | 1.40 |
| 12 | aL | 204 | CLA | C3B-C2B | 6.07 | 1.48 | 1.40 |
| 12 | cA | 804 | CLA | C3B-C2B | 6.02 | 1.48 | 1.40 |
| 12 | aB | 930 | CLA | C3B-C2B | 6.02 | 1.48 | 1.40 |
| 12 | aB | 903 | CLA | C3B-C2B | 6.02 | 1.48 | 1.40 |
| 12 | bA | 820 | CLA | C3B-C2B | 6.02 | 1.48 | 1.40 |
| 12 | cA | 820 | CLA | C3B-C2B | 6.02 | 1.48 | 1.40 |
| 12 | aB | 935 | CLA | C3B-C2B | 6.01 | 1.48 | 1.40 |
| 12 | cB | 903 | CLA | C3B-C2B | 6.00 | 1.48 | 1.40 |
| 12 | aA | 820 | CLA | C3B-C2B | 6.00 | 1.48 | 1.40 |
| 12 | bB | 930 | CLA | C3B-C2B | 6.00 | 1.48 | 1.40 |
| 12 | cB | 935 | CLA | C3B-C2B | 6.00 | 1.48 | 1.40 |
| 12 | bB | 935 | CLA | C3B-C2B | 5.99 | 1.48 | 1.40 |
| 12 | aA | 804 | CLA | C3B-C2B | 5.99 | 1.48 | 1.40 |
| 12 | bB | 903 | CLA | C3B-C2B | 5.98 | 1.48 | 1.40 |
| 12 | cB | 930 | CLA | C3B-C2B | 5.97 | 1.48 | 1.40 |
| 12 | bA | 827 | CLA | C3B-C2B | 5.96 | 1.48 | 1.40 |
| 12 | cA | 829 | CLA | C3B-C2B | 5.96 | 1.48 | 1.40 |
| 12 | bA | 829 | CLA | C3B-C2B | 5.96 | 1.48 | 1.40 |
| 12 | bA | 818 | CLA | C3B-C2B | 5.95 | 1.48 | 1.40 |
| 12 | cA | 818 | CLA | C3B-C2B | 5.95 | 1.48 | 1.40 |
| 12 | cA | 827 | CLA | C3B-C2B | 5.95 | 1.48 | 1.40 |
| 12 | aA | 832 | CLA | C3B-C2B | 5.94 | 1.48 | 1.40 |
| 12 | bA | 832 | CLA | C3B-C2B | 5.93 | 1.48 | 1.40 |
| 12 | aA | 829 | CLA | C3B-C2B | 5.93 | 1.48 | 1.40 |
| 12 | aA | 818 | CLA | C3B-C2B | 5.92 | 1.48 | 1.40 |
| 12 | aA | 803 | CLA | C3B-C2B | 5.92 | 1.48 | 1.40 |
| 12 | cA | 803 | CLA | C3B-C2B | 5.92 | 1.48 | 1.40 |
| 12 | bA | 803 | CLA | C3B-C2B | 5.92 | 1.48 | 1.40 |
| 12 | cA | 832 | CLA | C3B-C2B | 5.91 | 1.48 | 1.40 |
| 12 | aA | 827 | CLA | C3B-C2B | 5.91 | 1.48 | 1.40 |
| 12 | bA | 828 | CLA | C3B-C2B | 5.88 | 1.48 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cA | 828 | CLA | C3B-C2B | 5.87 | 1.48 | 1.40 |
| 12 | cB | 921 | CLA | C3B-C2B | 5.86 | 1.48 | 1.40 |
| 12 | aL | 203 | CLA | C3B-C2B | 5.85 | 1.48 | 1.40 |
| 12 | aB | 921 | CLA | C3B-C2B | 5.85 | 1.48 | 1.40 |
| 12 | aA | 805 | CLA | C3B-C2B | 5.85 | 1.48 | 1.40 |
| 12 | bA | 810 | CLA | C3B-C2B | 5.85 | 1.48 | 1.40 |
| 12 | bB | 921 | CLA | C3B-C2B | 5.84 | 1.48 | 1.40 |
| 12 | aA | 828 | CLA | C3B-C2B | 5.84 | 1.48 | 1.40 |
| 12 | bL | 203 | CLA | C3B-C2B | 5.84 | 1.48 | 1.40 |
| 12 | cA | 816 | CLA | C3B-C2B | 5.83 | 1.48 | 1.40 |
| 12 | aA | 810 | CLA | C3B-C2B | 5.83 | 1.48 | 1.40 |
| 12 | cB | 928 | CLA | C3B-C2B | 5.83 | 1.48 | 1.40 |
| 12 | cL | 203 | CLA | C3B-C2B | 5.82 | 1.48 | 1.40 |
| 12 | aA | 816 | CLA | C3B-C2B | 5.81 | 1.48 | 1.40 |
| 12 | cL | 202 | CLA | C3B-C2B | 5.81 | 1.48 | 1.40 |
| 12 | aB | 928 | CLA | C3B-C2B | 5.81 | 1.48 | 1.40 |
| 12 | aL | 202 | CLA | C3B-C2B | 5.81 | 1.48 | 1.40 |
| 12 | cA | 805 | CLA | C3B-C2B | 5.81 | 1.48 | 1.40 |
| 12 | bB | 928 | CLA | C3B-C2B | 5.80 | 1.48 | 1.40 |
| 12 | bL | 202 | CLA | C3B-C2B | 5.79 | 1.48 | 1.40 |
| 12 | cA | 810 | CLA | C3B-C2B | 5.78 | 1.48 | 1.40 |
| 12 | bA | 816 | CLA | C3B-C2B | 5.78 | 1.48 | 1.40 |
| 12 | cA | 853 | CLA | C3B-C2B | 5.77 | 1.48 | 1.40 |
| 12 | aA | 815 | CLA | C3B-C2B | 5.76 | 1.48 | 1.40 |
| 12 | bA | 805 | CLA | C3B-C2B | 5.76 | 1.48 | 1.40 |
| 12 | aA | 854 | CLA | C3B-C2B | 5.75 | 1.48 | 1.40 |
| 12 | bA | 815 | CLA | C3B-C2B | 5.74 | 1.48 | 1.40 |
| 12 | aA | 824 | CLA | C3B-C2B | 5.73 | 1.48 | 1.40 |
| 12 | bB | 902 | CLA | C3B-C2B | 5.73 | 1.48 | 1.40 |
| 12 | bB | 914 | CLA | C3B-C2B | 5.72 | 1.48 | 1.40 |
| 12 | bA | 811 | CLA | C3B-C2B | 5.72 | 1.48 | 1.40 |
| 12 | bA | 853 | CLA | C3B-C2B | 5.72 | 1.48 | 1.40 |
| 12 | bB | 926 | CLA | C3B-C2B | 5.71 | 1.48 | 1.40 |
| 12 | aB | 914 | CLA | C3B-C2B | 5.71 | 1.48 | 1.40 |
| 12 | cB | 926 | CLA | C3B-C2B | 5.70 | 1.48 | 1.40 |
| 12 | cA | 824 | CLA | C3B-C2B | 5.70 | 1.48 | 1.40 |
| 12 | bA | 824 | CLA | C3B-C2B | 5.70 | 1.48 | 1.40 |
| 12 | bB | 905 | CLA | C3B-C2B | 5.69 | 1.48 | 1.40 |
| 12 | aB | 926 | CLA | C3B-C2B | 5.67 | 1.48 | 1.40 |
| 12 | bF | 202 | CLA | C3B-C2B | 5.67 | 1.48 | 1.40 |
| 12 | cB | 902 | CLA | C3B-C2B | 5.67 | 1.48 | 1.40 |
| 12 | cB | 914 | CLA | C3B-C2B | 5.67 | 1.48 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | aB | 902 | CLA | C3B-C2B | 5.66 | 1.48 | 1.40 |
| 12 | aB | 905 | CLA | C3B-C2B | 5.66 | 1.48 | 1.40 |
| 12 | cA | 811 | CLA | C3B-C2B | 5.66 | 1.48 | 1.40 |
| 12 | cB | 905 | CLA | C3B-C2B | 5.65 | 1.48 | 1.40 |
| 12 | cA | 815 | CLA | C3B-C2B | 5.65 | 1.48 | 1.40 |
| 12 | cA | 808 | CLA | C3B-C2B | 5.65 | 1.48 | 1.40 |
| 12 | aB | 936 | CLA | C3B-C2B | 5.64 | 1.48 | 1.40 |
| 12 | aA | 808 | CLA | C3B-C2B | 5.64 | 1.48 | 1.40 |
| 12 | bA | 808 | CLA | C3B-C2B | 5.64 | 1.48 | 1.40 |
| 12 | cF | 202 | CLA | C3B-C2B | 5.64 | 1.48 | 1.40 |
| 12 | bB | 936 | CLA | C3B-C2B | 5.64 | 1.48 | 1.40 |
| 12 | aF | 202 | CLA | C3B-C2B | 5.64 | 1.48 | 1.40 |
| 12 | aA | 830 | CLA | C3B-C2B | 5.63 | 1.48 | 1.40 |
| 12 | cA | 830 | CLA | C3B-C2B | 5.63 | 1.48 | 1.40 |
| 12 | bA | 830 | CLA | C3B-C2B | 5.63 | 1.48 | 1.40 |
| 12 | cB | 936 | CLA | C3B-C2B | 5.61 | 1.48 | 1.40 |
| 12 | aA | 811 | CLA | C3B-C2B | 5.61 | 1.48 | 1.40 |
| 12 | bA | 839 | CLA | C3B-C2B | 5.56 | 1.48 | 1.40 |
| 12 | aA | 807 | CLA | C3B-C2B | 5.55 | 1.48 | 1.40 |
| 12 | aB | 937 | CLA | C3B-C2B | 5.55 | 1.48 | 1.40 |
| 12 | cB | 927 | CLA | C3B-C2B | 5.55 | 1.48 | 1.40 |
| 12 | cA | 843 | CLA | C3B-C2B | 5.54 | 1.48 | 1.40 |
| 12 | cA | 807 | CLA | C3B-C2B | 5.54 | 1.48 | 1.40 |
| 12 | cA | 841 | CLA | C3B-C2B | 5.54 | 1.48 | 1.40 |
| 12 | bA | 841 | CLA | C3B-C2B | 5.54 | 1.48 | 1.40 |
| 12 | cB | 937 | CLA | C3B-C2B | 5.54 | 1.48 | 1.40 |
| 12 | aA | 812 | CLA | C3B-C2B | 5.53 | 1.48 | 1.40 |
| 12 | bA | 807 | CLA | C3B-C2B | 5.53 | 1.48 | 1.40 |
| 12 | aA | 839 | CLA | C3B-C2B | 5.52 | 1.48 | 1.40 |
| 12 | cB | 906 | CLA | C3B-C2B | 5.52 | 1.48 | 1.40 |
| 12 | aB | 915 | CLA | C3B-C2B | 5.52 | 1.48 | 1.40 |
| 12 | bB | 937 | CLA | C3B-C2B | 5.52 | 1.48 | 1.40 |
| 12 | cA | 823 | CLA | C3B-C2B | 5.51 | 1.48 | 1.40 |
| 12 | cA | 812 | CLA | C3B-C2B | 5.50 | 1.48 | 1.40 |
| 12 | aA | 841 | CLA | C3B-C2B | 5.50 | 1.48 | 1.40 |
| 12 | bB | 915 | CLA | C3B-C2B | 5.50 | 1.48 | 1.40 |
| 12 | cB | 919 | CLA | C3B-C2B | 5.49 | 1.48 | 1.40 |
| 12 | bA | 812 | CLA | C3B-C2B | 5.49 | 1.48 | 1.40 |
| 12 | aB | 919 | CLA | C3B-C2B | 5.49 | 1.48 | 1.40 |
| 12 | bB | 906 | CLA | C3B-C2B | 5.49 | 1.48 | 1.40 |
| 12 | cB | 915 | CLA | C3B-C2B | 5.48 | 1.48 | 1.40 |
| 12 | bA | 823 | CLA | C3B-C2B | 5.47 | 1.48 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bB | 927 | CLA | C3B-C2B | 5.47 | 1.48 | 1.40 |
| 12 | cA | 814 | CLA | C3B-C2B | 5.47 | 1.48 | 1.40 |
| 12 | aA | 843 | CLA | C3B-C2B | 5.47 | 1.48 | 1.40 |
| 12 | bA | 843 | CLA | C3B-C2B | 5.47 | 1.48 | 1.40 |
| 12 | bA | 813 | CLA | C3C-C2C | 5.47 | 1.48 | 1.36 |
| 12 | bB | 919 | CLA | C3B-C2B | 5.47 | 1.48 | 1.40 |
| 12 | cA | 839 | CLA | C3B-C2B | 5.47 | 1.48 | 1.40 |
| 12 | bB | 909 | CLA | C3B-C2B | 5.46 | 1.48 | 1.40 |
| 12 | cA | 809 | CLA | C3B-C2B | 5.46 | 1.47 | 1.40 |
| 12 | aB | 906 | CLA | C3B-C2B | 5.46 | 1.47 | 1.40 |
| 12 | bB | 915 | CLA | C3C-C2C | 5.46 | 1.48 | 1.36 |
| 12 | aB | 934 | CLA | C3B-C2B | 5.46 | 1.47 | 1.40 |
| 12 | bA | 809 | CLA | C3B-C2B | 5.46 | 1.47 | 1.40 |
| 12 | bA | 814 | CLA | C3B-C2B | 5.45 | 1.47 | 1.40 |
| 12 | aA | 823 | CLA | C3B-C2B | 5.45 | 1.47 | 1.40 |
| 12 | aA | 814 | CLA | C3B-C2B | 5.45 | 1.47 | 1.40 |
| 12 | aB | 927 | CLA | C3B-C2B | 5.45 | 1.47 | 1.40 |
| 12 | aB | 949 | CLA | C3C-C2C | 5.44 | 1.48 | 1.36 |
| 12 | cA | 813 | CLA | C3C-C2C | 5.43 | 1.48 | 1.36 |
| 12 | cB | 915 | CLA | C3C-C2C | 5.43 | 1.48 | 1.36 |
| 12 | cB | 949 | CLA | C3C-C2C | 5.43 | 1.48 | 1.36 |
| 12 | bB | 931 | CLA | C3C-C2C | 5.43 | 1.48 | 1.36 |
| 11 | aA | 801 | CL0 | C3B-C2B | 5.43 | 1.47 | 1.40 |
| 12 | aB | 915 | CLA | C3C-C2C | 5.42 | 1.48 | 1.36 |
| 12 | aA | 813 | CLA | C3C-C2C | 5.42 | 1.48 | 1.36 |
| 12 | aB | 909 | CLA | C3B-C2B | 5.42 | 1.47 | 1.40 |
| 12 | cA | 840 | CLA | C3B-C2B | 5.42 | 1.47 | 1.40 |
| 12 | aB | 901 | CLA | C3B-C2B | 5.41 | 1.47 | 1.40 |
| 12 | bA | 840 | CLA | C3B-C2B | 5.41 | 1.47 | 1.40 |
| 12 | cA | 836 | CLA | C3B-C2B | 5.41 | 1.47 | 1.40 |
| 12 | aA | 809 | CLA | C3B-C2B | 5.41 | 1.47 | 1.40 |
| 12 | aB | 907 | CLA | C3B-C2B | 5.41 | 1.47 | 1.40 |
| 12 | aB | 931 | CLA | C3C-C2C | 5.41 | 1.48 | 1.36 |
| 12 | bB | 949 | CLA | C3C-C2C | 5.41 | 1.48 | 1.36 |
| 11 | bA | 801 | CL0 | C3B-C2B | 5.40 | 1.47 | 1.40 |
| 12 | cB | 934 | CLA | C3B-C2B | 5.40 | 1.47 | 1.40 |
| 12 | cB | 931 | CLA | C3C-C2C | 5.40 | 1.48 | 1.36 |
| 12 | aA | 840 | CLA | C3B-C2B | 5.40 | 1.47 | 1.40 |
| 12 | bB | 911 | CLA | C3B-C2B | 5.40 | 1.47 | 1.40 |
| 12 | cB | 909 | CLA | C3B-C2B | 5.40 | 1.47 | 1.40 |
| 12 | cB | 901 | CLA | C3B-C2B | 5.39 | 1.47 | 1.40 |
| 12 | bB | 923 | CLA | C3B-C2B | 5.39 | 1.47 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cB | 923 | CLA | C3B-C2B | 5.39 | 1.47 | 1.40 |
| 12 | bB | 907 | CLA | C3B-C2B | 5.38 | 1.47 | 1.40 |
| 12 | aB | 911 | CLA | C3B-C2B | 5.38 | 1.47 | 1.40 |
| 12 | aA | 828 | CLA | C3C-C2C | 5.38 | 1.48 | 1.36 |
| 12 | cB | 911 | CLA | C3B-C2B | 5.38 | 1.47 | 1.40 |
| 12 | bB | 934 | CLA | C3B-C2B | 5.37 | 1.47 | 1.40 |
| 12 | cB | 907 | CLA | C3B-C2B | 5.37 | 1.47 | 1.40 |
| 12 | cA | 842 | CLA | C3B-C2B | 5.37 | 1.47 | 1.40 |
| 12 | aB | 923 | CLA | C3B-C2B | 5.37 | 1.47 | 1.40 |
| 12 | aA | 816 | CLA | C3C-C2C | 5.37 | 1.48 | 1.36 |
| 12 | cA | 816 | CLA | C3C-C2C | 5.37 | 1.48 | 1.36 |
| 12 | bA | 816 | CLA | C3C-C2C | 5.36 | 1.48 | 1.36 |
| 12 | bA | 836 | CLA | C3B-C2B | 5.36 | 1.47 | 1.40 |
| 12 | bB | 901 | CLA | C3B-C2B | 5.36 | 1.47 | 1.40 |
| 12 | aA | 836 | CLA | C3B-C2B | 5.36 | 1.47 | 1.40 |
| 11 | cA | 801 | CL0 | C3B-C2B | 5.36 | 1.47 | 1.40 |
| 12 | bA | 842 | CLA | C3B-C2B | 5.36 | 1.47 | 1.40 |
| 12 | cB | 949 | CLA | C1D-ND | 5.35 | 1.44 | 1.37 |
| 12 | bB | 931 | CLA | C3B-C2B | 5.34 | 1.47 | 1.40 |
| 12 | cA | 828 | CLA | C3C-C2C | 5.34 | 1.48 | 1.36 |
| 12 | aB | 949 | CLA | C1D-ND | 5.33 | 1.44 | 1.37 |
| 12 | bA | 828 | CLA | C3C-C2C | 5.33 | 1.48 | 1.36 |
| 12 | aA | 842 | CLA | C3B-C2B | 5.32 | 1.47 | 1.40 |
| 12 | aB | 925 | CLA | C3B-C2B | 5.32 | 1.47 | 1.40 |
| 12 | aB | 938 | CLA | C3B-C2B | 5.32 | 1.47 | 1.40 |
| 12 | aA | 815 | CLA | C3C-C2C | 5.31 | 1.48 | 1.36 |
| 12 | cB | 929 | CLA | C3C-C2C | 5.31 | 1.48 | 1.36 |
| 12 | cA | 815 | CLA | C3C-C2C | 5.31 | 1.48 | 1.36 |
| 12 | bB | 938 | CLA | C3B-C2B | 5.30 | 1.47 | 1.40 |
| 12 | aB | 931 | CLA | CHC-C1C | 5.30 | 1.48 | 1.35 |
| 12 | bA | 826 | CLA | C3B-C2B | 5.30 | 1.47 | 1.40 |
| 12 | bB | 949 | CLA | C1D-ND | 5.30 | 1.44 | 1.37 |
| 12 | bA | 815 | CLA | C3C-C2C | 5.29 | 1.48 | 1.36 |
| 12 | bB | 931 | CLA | CHC-C1C | 5.29 | 1.48 | 1.35 |
| 12 | cB | 925 | CLA | C3B-C2B | 5.29 | 1.47 | 1.40 |
| 12 | cB | 931 | CLA | CHC-C1C | 5.28 | 1.48 | 1.35 |
| 12 | cA | 835 | CLA | C3B-C2B | 5.28 | 1.47 | 1.40 |
| 12 | cB | 936 | CLA | C3C-C2C | 5.27 | 1.47 | 1.36 |
| 12 | aA | 835 | CLA | C3B-C2B | 5.27 | 1.47 | 1.40 |
| 12 | aB | 929 | CLA | C3C-C2C | 5.27 | 1.47 | 1.36 |
| 12 | cA | 826 | CLA | C3B-C2B | 5.27 | 1.47 | 1.40 |
| 12 | aB | 931 | CLA | C3B-C2B | 5.27 | 1.47 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bA | 835 | CLA | C3B-C2B | 5.26 | 1.47 | 1.40 |
| 12 | cB | 931 | CLA | C3B-C2B | 5.26 | 1.47 | 1.40 |
| 12 | aA | 826 | CLA | C3B-C2B | 5.26 | 1.47 | 1.40 |
| 12 | bB | 929 | CLA | C3C-C2C | 5.26 | 1.47 | 1.36 |
| 12 | cB | 938 | CLA | C3B-C2B | 5.26 | 1.47 | 1.40 |
| 12 | aB | 936 | CLA | C3C-C2C | 5.25 | 1.47 | 1.36 |
| 12 | bB | 925 | CLA | C3B-C2B | 5.25 | 1.47 | 1.40 |
| 12 | bB | 930 | CLA | C3C-C2C | 5.25 | 1.47 | 1.36 |
| 12 | aB | 930 | CLA | C3C-C2C | 5.24 | 1.47 | 1.36 |
| 12 | bA | 838 | CLA | C3C-C2C | 5.23 | 1.47 | 1.36 |
| 12 | cB | 930 | CLA | C3C-C2C | 5.22 | 1.47 | 1.36 |
| 12 | bB | 936 | CLA | C3C-C2C | 5.22 | 1.47 | 1.36 |
| 12 | cB | 910 | CLA | C3C-C2C | 5.22 | 1.47 | 1.36 |
| 12 | cB | 920 | CLA | C3C-C2C | 5.22 | 1.47 | 1.36 |
| 12 | aB | 934 | CLA | C3C-C2C | 5.21 | 1.47 | 1.36 |
| 12 | aB | 920 | CLA | C3C-C2C | 5.21 | 1.47 | 1.36 |
| 12 | cB | 934 | CLA | C3C-C2C | 5.21 | 1.47 | 1.36 |
| 12 | bB | 910 | CLA | C3B-C2B | 5.20 | 1.47 | 1.40 |
| 12 | bA | 835 | CLA | C3C-C2C | 5.20 | 1.47 | 1.36 |
| 12 | bA | 804 | CLA | C3C-C2C | 5.20 | 1.47 | 1.36 |
| 12 | bB | 921 | CLA | C3C-C2C | 5.20 | 1.47 | 1.36 |
| 12 | bB | 920 | CLA | C3C-C2C | 5.20 | 1.47 | 1.36 |
| 12 | aB | 935 | CLA | C3C-C2C | 5.20 | 1.47 | 1.36 |
| 12 | cA | 838 | CLA | C3C-C2C | 5.20 | 1.47 | 1.36 |
| 12 | cB | 918 | CLA | C3C-C2C | 5.18 | 1.47 | 1.36 |
| 12 | cB | 929 | CLA | C3B-C2B | 5.18 | 1.47 | 1.40 |
| 12 | aA | 838 | CLA | C3C-C2C | 5.18 | 1.47 | 1.36 |
| 12 | aA | 835 | CLA | C3C-C2C | 5.18 | 1.47 | 1.36 |
| 12 | cB | 935 | CLA | C3C-C2C | 5.18 | 1.47 | 1.36 |
| 12 | bA | 827 | CLA | C3C-C2C | 5.17 | 1.47 | 1.36 |
| 12 | bB | 910 | CLA | C3C-C2C | 5.17 | 1.47 | 1.36 |
| 12 | bB | 934 | CLA | C3C-C2C | 5.17 | 1.47 | 1.36 |
| 12 | aA | 819 | CLA | C3C-C2C | 5.17 | 1.47 | 1.36 |
| 12 | aB | 921 | CLA | C3C-C2C | 5.17 | 1.47 | 1.36 |
| 12 | aB | 910 | CLA | C3C-C2C | 5.17 | 1.47 | 1.36 |
| 12 | cA | 835 | CLA | C3C-C2C | 5.17 | 1.47 | 1.36 |
| 12 | cA | 804 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | bB | 918 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | aB | 929 | CLA | C3B-C2B | 5.16 | 1.47 | 1.40 |
| 12 | bB | 935 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | cA | 811 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | bA | 825 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cB | 921 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | bA | 822 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | cL | 203 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | aA | 837 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | aA | 804 | CLA | C3C-C2C | 5.16 | 1.47 | 1.36 |
| 12 | cA | 827 | CLA | C3C-C2C | 5.15 | 1.47 | 1.36 |
| 12 | cB | 949 | CLA | O2D-CGD | 5.15 | 1.45 | 1.33 |
| 12 | cA | 837 | CLA | C3C-C2C | 5.15 | 1.47 | 1.36 |
| 12 | cA | 819 | CLA | C3C-C2C | 5.15 | 1.47 | 1.36 |
| 12 | cB | 910 | CLA | C3B-C2B | 5.15 | 1.47 | 1.40 |
| 12 | aA | 827 | CLA | C3C-C2C | 5.15 | 1.47 | 1.36 |
| 12 | cA | 817 | CLA | C3C-C2C | 5.15 | 1.47 | 1.36 |
| 12 | bL | 203 | CLA | C3C-C2C | 5.14 | 1.47 | 1.36 |
| 12 | bA | 837 | CLA | C3C-C2C | 5.14 | 1.47 | 1.36 |
| 12 | cA | 813 | CLA | CHC-C1C | 5.14 | 1.48 | 1.35 |
| 12 | bB | 934 | CLA | O2D-CGD | 5.14 | 1.45 | 1.33 |
| 12 | aA | 813 | CLA | CHC-C1C | 5.14 | 1.48 | 1.35 |
| 12 | aA | 811 | CLA | C3C-C2C | 5.14 | 1.47 | 1.36 |
| 12 | bA | 813 | CLA | CHC-C1C | 5.14 | 1.48 | 1.35 |
| 12 | aA | 832 | CLA | C3C-C2C | 5.14 | 1.47 | 1.36 |
| 12 | bA | 819 | CLA | C3C-C2C | 5.14 | 1.47 | 1.36 |
| 12 | cB | 939 | CLA | C3B-C2B | 5.14 | 1.47 | 1.40 |
| 12 | aB | 910 | CLA | C3B-C2B | 5.13 | 1.47 | 1.40 |
| 12 | aA | 822 | CLA | C3C-C2C | 5.13 | 1.47 | 1.36 |
| 12 | bB | 949 | CLA | C3B-C2B | 5.13 | 1.47 | 1.40 |
| 12 | aB | 918 | CLA | C3C-C2C | 5.13 | 1.47 | 1.36 |
| 12 | bA | 805 | CLA | CHC-C1C | 5.13 | 1.48 | 1.35 |
| 12 | aA | 825 | CLA | C3C-C2C | 5.13 | 1.47 | 1.36 |
| 12 | cA | 825 | CLA | C3C-C2C | 5.13 | 1.47 | 1.36 |
| 12 | bA | 811 | CLA | C3C-C2C | 5.13 | 1.47 | 1.36 |
| 12 | aB | 949 | CLA | C3B-C2B | 5.13 | 1.47 | 1.40 |
| 12 | cA | 822 | CLA | C3C-C2C | 5.12 | 1.47 | 1.36 |
| 12 | bA | 834 | CLA | C3C-C2C | 5.12 | 1.47 | 1.36 |
| 12 | aB | 949 | CLA | O2D-CGD | 5.12 | 1.45 | 1.33 |
| 12 | bB | 949 | CLA | O2D-CGD | 5.12 | 1.45 | 1.33 |
| 12 | bB | 939 | CLA | C3B-C2B | 5.12 | 1.47 | 1.40 |
| 12 | aL | 203 | CLA | C3C-C2C | 5.11 | 1.47 | 1.36 |
| 12 | bB | 933 | CLA | C3B-C2B | 5.11 | 1.47 | 1.40 |
| 12 | aA | 817 | CLA | C3C-C2C | 5.11 | 1.47 | 1.36 |
| 12 | aA | 833 | CLA | C3C-C2C | 5.11 | 1.47 | 1.36 |
| 12 | cB | 949 | CLA | C3B-C2B | 5.11 | 1.47 | 1.40 |
| 12 | bB | 914 | CLA | C3C-C2C | 5.11 | 1.47 | 1.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bA | 833 | CLA | C3C-C2C | 5.10 | 1.47 | 1.36 |
| 12 | aB | 939 | CLA | C3B-C2B | 5.10 | 1.47 | 1.40 |
| 12 | bA | 832 | CLA | C3C-C2C | 5.10 | 1.47 | 1.36 |
| 12 | aA | 809 | CLA | C3C-C2C | 5.10 | 1.47 | 1.36 |
| 12 | bB | 916 | CLA | CHC-C1C | 5.10 | 1.48 | 1.35 |
| 12 | bB | 929 | CLA | C3B-C2B | 5.10 | 1.47 | 1.40 |
| 12 | cB | 933 | CLA | C3B-C2B | 5.10 | 1.47 | 1.40 |
| 12 | bA | 822 | CLA | CHC-C1C | 5.10 | 1.48 | 1.35 |
| 12 | cA | 834 | CLA | C3C-C2C | 5.10 | 1.47 | 1.36 |
| 12 | cA | 830 | CLA | C3C-C2C | 5.10 | 1.47 | 1.36 |
| 12 | cA | 825 | CLA | CHC-C1C | 5.10 | 1.48 | 1.35 |
| 12 | cA | 809 | CLA | C3C-C2C | 5.10 | 1.47 | 1.36 |
| 12 | aB | 933 | CLA | C3B-C2B | 5.09 | 1.47 | 1.40 |
| 12 | aA | 821 | CLA | C3C-C2C | 5.09 | 1.47 | 1.36 |
| 12 | aB | 934 | CLA | O2D-CGD | 5.09 | 1.45 | 1.33 |
| 12 | cB | 934 | CLA | O2D-CGD | 5.09 | 1.45 | 1.33 |
| 12 | bA | 817 | CLA | C3C-C2C | 5.09 | 1.47 | 1.36 |
| 12 | aA | 825 | CLA | CHC-C1C | 5.09 | 1.48 | 1.35 |
| 12 | cA | 832 | CLA | C3C-C2C | 5.09 | 1.47 | 1.36 |
| 12 | aA | 805 | CLA | CHC-C1C | 5.08 | 1.48 | 1.35 |
| 12 | cA | 805 | CLA | CHC-C1C | 5.08 | 1.48 | 1.35 |
| 12 | aB | 916 | CLA | CHC-C1C | 5.08 | 1.48 | 1.35 |
| 12 | bA | 820 | CLA | C3C-C2C | 5.08 | 1.47 | 1.36 |
| 12 | bA | 830 | CLA | C3C-C2C | 5.08 | 1.47 | 1.36 |
| 12 | bA | 809 | CLA | C3C-C2C | 5.08 | 1.47 | 1.36 |
| 12 | bA | 817 | CLA | CHC-C1C | 5.08 | 1.48 | 1.35 |
| 12 | cA | 821 | CLA | C3C-C2C | 5.08 | 1.47 | 1.36 |
| 12 | aA | 824 | CLA | O2D-CGD | 5.08 | 1.45 | 1.33 |
| 12 | bA | 821 | CLA | C3C-C2C | 5.08 | 1.47 | 1.36 |
| 12 | aA | 834 | CLA | C3C-C2C | 5.08 | 1.47 | 1.36 |
| 12 | bA | 839 | CLA | C3C-C2C | 5.08 | 1.47 | 1.36 |
| 12 | cA | 839 | CLA | C3C-C2C | 5.08 | 1.47 | 1.36 |
| 12 | bA | 831 | CLA | C3C-C2C | 5.07 | 1.47 | 1.36 |
| 12 | cB | 914 | CLA | C3C-C2C | 5.07 | 1.47 | 1.36 |
| 12 | cB | 937 | CLA | C3C-C2C | 5.07 | 1.47 | 1.36 |
| 12 | bA | 825 | CLA | CHC-C1C | 5.07 | 1.48 | 1.35 |
| 12 | aA | 820 | CLA | C3C-C2C | 5.07 | 1.47 | 1.36 |
| 12 | aB | 905 | CLA | O2D-CGD | 5.07 | 1.45 | 1.33 |
| 12 | cB | 919 | CLA | CHC-C1C | 5.07 | 1.48 | 1.35 |
| 12 | aA | 842 | CLA | C3C-C2C | 5.07 | 1.47 | 1.36 |
| 12 | cA | 833 | CLA | C3C-C2C | 5.07 | 1.47 | 1.36 |
| 12 | cB | 916 | CLA | CHC-C1C | 5.07 | 1.48 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | aB | 919 | CLA | CHC-C1C | 5.07 | 1.48 | 1.35 |
| 12 | aA | 830 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | aB | 914 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | cA | 842 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | aA | 805 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | bB | 905 | CLA | O2D-CGD | 5.06 | 1.45 | 1.33 |
| 12 | cB | 905 | CLA | O2D-CGD | 5.06 | 1.45 | 1.33 |
| 12 | cA | 824 | CLA | O2D-CGD | 5.06 | 1.45 | 1.33 |
| 12 | aB | 922 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | aA | 831 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | bA | 829 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | bB | 937 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | bA | 831 | CLA | C3B-C2B | 5.06 | 1.47 | 1.40 |
| 12 | bA | 842 | CLA | C3C-C2C | 5.06 | 1.47 | 1.36 |
| 12 | bB | 923 | CLA | CHC-C1C | 5.05 | 1.47 | 1.35 |
| 12 | aA | 839 | CLA | C3C-C2C | 5.05 | 1.47 | 1.36 |
| 12 | cA | 836 | CLA | O2D-CGD | 5.05 | 1.45 | 1.33 |
| 12 | bB | 919 | CLA | CHC-C1C | 5.05 | 1.47 | 1.35 |
| 12 | cA | 822 | CLA | CHC-C1C | 5.05 | 1.47 | 1.35 |
| 12 | bA | 824 | CLA | O2D-CGD | 5.05 | 1.45 | 1.33 |
| 12 | aB | 915 | CLA | O2D-CGD | 5.05 | 1.45 | 1.33 |
| 12 | aB | 924 | CLA | C3C-C2C | 5.05 | 1.47 | 1.36 |
| 12 | bA | 810 | CLA | C3C-C2C | 5.05 | 1.47 | 1.36 |
| 12 | aA | 831 | CLA | C3B-C2B | 5.05 | 1.47 | 1.40 |
| 12 | aA | 802 | CLA | C3C-C2C | 5.05 | 1.47 | 1.36 |
| 12 | bL | 204 | CLA | CHC-C1C | 5.05 | 1.47 | 1.35 |
| 12 | cA | 820 | CLA | C3C-C2C | 5.05 | 1.47 | 1.36 |
| 12 | bB | 938 | CLA | O2D-CGD | 5.05 | 1.45 | 1.33 |
| 12 | cB | 923 | CLA | CHC-C1C | 5.04 | 1.47 | 1.35 |
| 12 | cA | 829 | CLA | C3C-C2C | 5.04 | 1.47 | 1.36 |
| 12 | aA | 829 | CLA | C3C-C2C | 5.04 | 1.47 | 1.36 |
| 12 | cA | 802 | CLA | C3C-C2C | 5.04 | 1.47 | 1.36 |
| 12 | cA | 805 | CLA | C3C-C2C | 5.04 | 1.47 | 1.36 |
| 12 | aB | 932 | CLA | C3C-C2C | 5.04 | 1.47 | 1.36 |
| 12 | cA | 817 | CLA | CHC-C1C | 5.04 | 1.47 | 1.35 |
| 12 | aA | 836 | CLA | O2D-CGD | 5.04 | 1.45 | 1.33 |
| 12 | aB | 923 | CLA | CHC-C1C | 5.04 | 1.47 | 1.35 |
| 12 | bB | 934 | CLA | CHC-C1C | 5.04 | 1.47 | 1.35 |
| 12 | bF | 202 | CLA | O2D-CGD | 5.03 | 1.45 | 1.33 |
| 12 | cA | 831 | CLA | C3C-C2C | 5.03 | 1.47 | 1.36 |
| 12 | cB | 924 | CLA | C3C-C2C | 5.03 | 1.47 | 1.36 |
| 12 | cL | 204 | CLA | CHC-C1C | 5.03 | 1.47 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cB | 922 | CLA | C3C-C2C | 5.03 | 1.47 | 1.36 |
| 12 | cB | 934 | CLA | CHC-C1C | 5.03 | 1.47 | 1.35 |
| 12 | bB | 924 | CLA | C3C-C2C | 5.03 | 1.47 | 1.36 |
| 12 | aA | 822 | CLA | CHC-C1C | 5.03 | 1.47 | 1.35 |
| 12 | cB | 913 | CLA | C3C-C2C | 5.03 | 1.47 | 1.36 |
| 12 | bA | 802 | CLA | C3C-C2C | 5.03 | 1.47 | 1.36 |
| 12 | aB | 938 | CLA | O2D-CGD | 5.03 | 1.45 | 1.33 |
| 12 | bA | 836 | CLA | O2D-CGD | 5.03 | 1.45 | 1.33 |
| 12 | cB | 915 | CLA | O2D-CGD | 5.03 | 1.45 | 1.33 |
| 12 | aB | 934 | CLA | CHC-C1C | 5.03 | 1.47 | 1.35 |
| 12 | cF | 202 | CLA | O2D-CGD | 5.03 | 1.45 | 1.33 |
| 12 | bA | 805 | CLA | C3C-C2C | 5.03 | 1.47 | 1.36 |
| 12 | aB | 937 | CLA | C3C-C2C | 5.03 | 1.47 | 1.36 |
| 12 | cA | 810 | CLA | C3C-C2C | 5.02 | 1.47 | 1.36 |
| 12 | aA | 810 | CLA | C3C-C2C | 5.02 | 1.47 | 1.36 |
| 12 | bA | 802 | CLA | C3B-C2B | 5.02 | 1.47 | 1.40 |
| 12 | cB | 925 | CLA | C3C-C2C | 5.02 | 1.47 | 1.36 |
| 12 | bB | 915 | CLA | O2D-CGD | 5.02 | 1.45 | 1.33 |
| 12 | aB | 913 | CLA | C3C-C2C | 5.02 | 1.47 | 1.36 |
| 12 | cA | 831 | CLA | C3B-C2B | 5.02 | 1.47 | 1.40 |
| 12 | bA | 831 | CLA | CHC-C1C | 5.02 | 1.47 | 1.35 |
| 12 | bB | 916 | CLA | C3B-C2B | 5.02 | 1.47 | 1.40 |
| 12 | aA | 817 | CLA | CHC-C1C | 5.02 | 1.47 | 1.35 |
| 12 | bB | 922 | CLA | C3C-C2C | 5.02 | 1.47 | 1.36 |
| 12 | cA | 831 | CLA | CHC-C1C | 5.02 | 1.47 | 1.35 |
| 12 | aB | 916 | CLA | C3B-C2B | 5.02 | 1.47 | 1.40 |
| 12 | bA | 807 | CLA | C1D-ND | 5.02 | 1.44 | 1.37 |
| 12 | cB | 910 | CLA | O2D-CGD | 5.02 | 1.45 | 1.33 |
| 12 | bA | 808 | CLA | C3C-C2C | 5.01 | 1.47 | 1.36 |
| 12 | aF | 202 | CLA | O2D-CGD | 5.01 | 1.45 | 1.33 |
| 12 | bB | 910 | CLA | O2D-CGD | 5.01 | 1.45 | 1.33 |
| 12 | aL | 204 | CLA | CHC-C1C | 5.01 | 1.47 | 1.35 |
| 12 | cB | 932 | CLA | C3C-C2C | 5.01 | 1.47 | 1.36 |
| 12 | bB | 912 | CLA | C3C-C2C | 5.01 | 1.47 | 1.36 |
| 12 | bB | 925 | CLA | C3C-C2C | 5.01 | 1.47 | 1.36 |
| 12 | aB | 912 | CLA | C3C-C2C | 5.01 | 1.47 | 1.36 |
| 12 | aA | 808 | CLA | C3C-C2C | 5.00 | 1.47 | 1.36 |
| 12 | bB | 932 | CLA | C3C-C2C | 5.00 | 1.47 | 1.36 |
| 12 | cA | 808 | CLA | C3C-C2C | 5.00 | 1.47 | 1.36 |
| 12 | cB | 912 | CLA | C3C-C2C | 5.00 | 1.47 | 1.36 |
| 12 | bA | 840 | CLA | C3C-C2C | 5.00 | 1.47 | 1.36 |
| 12 | cA | 836 | CLA | C3C-C2C | 5.00 | 1.47 | 1.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bB | 949 | CLA | CHC-C1C | 5.00 | 1.47 | 1.35 |
| 12 | cB | 938 | CLA | O2D-CGD | 5.00 | 1.45 | 1.33 |
| 12 | aB | 925 | CLA | C3C-C2C | 5.00 | 1.47 | 1.36 |
| 12 | cB | 916 | CLA | C3B-C2B | 5.00 | 1.47 | 1.40 |
| 12 | bB | 913 | CLA | C3C-C2C | 5.00 | 1.47 | 1.36 |
| 12 | cA | 841 | CLA | CHC-C1C | 4.99 | 1.47 | 1.35 |
| 12 | bA | 853 | CLA | C3C-C2C | 4.99 | 1.47 | 1.36 |
| 12 | bA | 841 | CLA | CHC-C1C | 4.99 | 1.47 | 1.35 |
| 12 | aA | 802 | CLA | C3B-C2B | 4.99 | 1.47 | 1.40 |
| 12 | aB | 929 | CLA | O2D-CGD | 4.99 | 1.45 | 1.33 |
| 12 | bB | 929 | CLA | O2D-CGD | 4.99 | 1.45 | 1.33 |
| 12 | cB | 923 | CLA | C3C-C2C | 4.99 | 1.47 | 1.36 |
| 12 | bB | 917 | CLA | C3B-C2B | 4.99 | 1.47 | 1.40 |
| 12 | aB | 938 | CLA | C3C-C2C | 4.99 | 1.47 | 1.36 |
| 12 | bB | 932 | CLA | C3B-C2B | 4.98 | 1.47 | 1.40 |
| 12 | aB | 917 | CLA | C3B-C2B | 4.98 | 1.47 | 1.40 |
| 12 | aA | 821 | CLA | CHC-C1C | 4.98 | 1.47 | 1.35 |
| 12 | aA | 831 | CLA | CHC-C1C | 4.98 | 1.47 | 1.35 |
| 12 | bA | 838 | CLA | C3B-C2B | 4.98 | 1.47 | 1.40 |
| 12 | cA | 821 | CLA | CHC-C1C | 4.98 | 1.47 | 1.35 |
| 12 | aA | 840 | CLA | C3C-C2C | 4.98 | 1.47 | 1.36 |
| 12 | cA | 802 | CLA | C3B-C2B | 4.98 | 1.47 | 1.40 |
| 12 | cA | 840 | CLA | C3C-C2C | 4.98 | 1.47 | 1.36 |
| 12 | cB | 927 | CLA | C3C-C2C | 4.98 | 1.47 | 1.36 |
| 12 | bB | 950 | CLA | O2D-CGD | 4.98 | 1.45 | 1.33 |
| 12 | aB | 910 | CLA | O2D-CGD | 4.98 | 1.45 | 1.33 |
| 12 | cL | 202 | CLA | C3C-C2C | 4.98 | 1.47 | 1.36 |
| 12 | aB | 950 | CLA | O2D-CGD | 4.98 | 1.45 | 1.33 |
| 12 | bB | 934 | CLA | C1D-ND | 4.97 | 1.43 | 1.37 |
| 12 | aB | 923 | CLA | C3C-C2C | 4.97 | 1.47 | 1.36 |
| 12 | aA | 807 | CLA | C1D-ND | 4.97 | 1.43 | 1.37 |
| 12 | bB | 927 | CLA | C3C-C2C | 4.97 | 1.47 | 1.36 |
| 12 | aB | 932 | CLA | C3B-C2B | 4.97 | 1.47 | 1.40 |
| 12 | aB | 922 | CLA | CHC-C1C | 4.97 | 1.47 | 1.35 |
| 12 | cB | 929 | CLA | O2D-CGD | 4.97 | 1.45 | 1.33 |
| 12 | cA | 853 | CLA | CHC-C1C | 4.96 | 1.47 | 1.35 |
| 12 | aB | 934 | CLA | C1D-ND | 4.96 | 1.43 | 1.37 |
| 12 | aA | 844 | CLA | O2D-CGD | 4.96 | 1.45 | 1.33 |
| 12 | aB | 927 | CLA | C3C-C2C | 4.96 | 1.47 | 1.36 |
| 12 | cB | 906 | CLA | C3C-C2C | 4.96 | 1.47 | 1.36 |
| 12 | bA | 821 | CLA | CHC-C1C | 4.96 | 1.47 | 1.35 |
| 12 | bB | 938 | CLA | C3C-C2C | 4.96 | 1.47 | 1.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cB | 917 | CLA | C3B-C2B | 4.96 | 1.47 | 1.40 |
| 12 | cB | 939 | CLA | O2D-CGD | 4.96 | 1.45 | 1.33 |
| 12 | aB | 939 | CLA | O2D-CGD | 4.96 | 1.45 | 1.33 |
| 12 | aA | 841 | CLA | CHC-C1C | 4.96 | 1.47 | 1.35 |
| 12 | cB | 922 | CLA | CHC-C1C | 4.96 | 1.47 | 1.35 |
| 12 | bB | 923 | CLA | C3C-C2C | 4.95 | 1.47 | 1.36 |
| 12 | cB | 938 | CLA | C3C-C2C | 4.95 | 1.47 | 1.36 |
| 12 | bA | 816 | CLA | O2D-CGD | 4.95 | 1.45 | 1.33 |
| 12 | cA | 823 | CLA | C3C-C2C | 4.95 | 1.47 | 1.36 |
| 12 | aL | 202 | CLA | C3C-C2C | 4.95 | 1.47 | 1.36 |
| 12 | aA | 854 | CLA | CHC-C1C | 4.95 | 1.47 | 1.35 |
| 12 | cA | 853 | CLA | C3C-C2C | 4.95 | 1.47 | 1.36 |
| 12 | cA | 838 | CLA | C3B-C2B | 4.95 | 1.47 | 1.40 |
| 12 | bL | 202 | CLA | C3C-C2C | 4.95 | 1.47 | 1.36 |
| 12 | cB | 949 | CLA | CHC-C1C | 4.94 | 1.47 | 1.35 |
| 13 | aB | 940 | 1L3 | C06-C04 | 4.94 | 1.57 | 1.48 |
| 12 | bA | 833 | CLA | C3B-C2B | 4.94 | 1.47 | 1.40 |
| 12 | bB | 939 | CLA | C3C-C2C | 4.94 | 1.47 | 1.36 |
| 12 | bA | 836 | CLA | C3C-C2C | 4.94 | 1.47 | 1.36 |
| 12 | aA | 827 | CLA | CHC-C1C | 4.94 | 1.47 | 1.35 |
| 12 | aA | 821 | CLA | O2D-CGD | 4.94 | 1.45 | 1.33 |
| 12 | bB | 906 | CLA | C3C-C2C | 4.94 | 1.47 | 1.36 |
| 12 | cB | 934 | CLA | C1D-ND | 4.94 | 1.43 | 1.37 |
| 12 | aA | 854 | CLA | C3C-C2C | 4.94 | 1.47 | 1.36 |
| 12 | aB | 933 | CLA | C3C-C2C | 4.94 | 1.47 | 1.36 |
| 12 | cB | 933 | CLA | C3C-C2C | 4.94 | 1.47 | 1.36 |
| 12 | aA | 836 | CLA | C3C-C2C | 4.94 | 1.47 | 1.36 |
| 12 | bA | 824 | CLA | C3C-C2C | 4.93 | 1.47 | 1.36 |
| 12 | aB | 949 | CLA | CHC-C1C | 4.93 | 1.47 | 1.35 |
| 12 | cA | 821 | CLA | O2D-CGD | 4.93 | 1.45 | 1.33 |
| 12 | bB | 921 | CLA | CHC-C1C | 4.93 | 1.47 | 1.35 |
| 12 | bA | 853 | CLA | CHC-C1C | 4.93 | 1.47 | 1.35 |
| 12 | bA | 821 | CLA | O2D-CGD | 4.93 | 1.45 | 1.33 |
| 12 | aB | 930 | CLA | CHC-C1C | 4.93 | 1.47 | 1.35 |
| 12 | bB | 937 | CLA | CHC-C1C | 4.93 | 1.47 | 1.35 |
| 11 | bA | 801 | CL0 | C3C-C2C | 4.93 | 1.47 | 1.36 |
| 12 | cA | 807 | CLA | O2D-CGD | 4.93 | 1.45 | 1.33 |
| 11 | aA | 801 | CL0 | C3C-C2C | 4.93 | 1.47 | 1.36 |
| 12 | bB | 922 | CLA | CHC-C1C | 4.93 | 1.47 | 1.35 |
| 13 | bB | 940 | 1L3 | C06-C04 | 4.93 | 1.57 | 1.48 |
| 12 | aA | 832 | CLA | CHC-C1C | 4.93 | 1.47 | 1.35 |
| 12 | aA | 833 | CLA | C3B-C2B | 4.93 | 1.47 | 1.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bB | 933 | CLA | C3C-C2C | 4.93 | 1.47 | 1.36 |
| 12 | aA | 823 | CLA | C3C-C2C | 4.93 | 1.47 | 1.36 |
| 12 | aB | 921 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | aA | 808 | CLA | C1D-ND | 4.92 | 1.43 | 1.37 |
| 12 | bA | 815 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | cB | 903 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | bA | 832 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | aA | 838 | CLA | C3B-C2B | 4.92 | 1.47 | 1.40 |
| 12 | aA | 816 | CLA | O2D-CGD | 4.92 | 1.45 | 1.33 |
| 12 | cB | 930 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | aA | 807 | CLA | O2D-CGD | 4.92 | 1.45 | 1.33 |
| 12 | cL | 202 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | bL | 204 | CLA | C3C-C2C | 4.92 | 1.47 | 1.36 |
| 12 | aB | 937 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | cB | 937 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | cA | 807 | CLA | C1D-ND | 4.92 | 1.43 | 1.37 |
| 12 | cB | 921 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | bA | 823 | CLA | C3C-C2C | 4.92 | 1.47 | 1.36 |
| 12 | cL | 204 | CLA | C3C-C2C | 4.92 | 1.47 | 1.36 |
| 12 | aA | 815 | CLA | CHC-C1C | 4.92 | 1.47 | 1.35 |
| 12 | aA | 826 | CLA | C3C-C2C | 4.92 | 1.47 | 1.36 |
| 12 | bA | 807 | CLA | O2D-CGD | 4.91 | 1.45 | 1.33 |
| 12 | cA | 815 | CLA | CHC-C1C | 4.91 | 1.47 | 1.35 |
| 12 | bL | 202 | CLA | CHC-C1C | 4.91 | 1.47 | 1.35 |
| 12 | bB | 939 | CLA | O2D-CGD | 4.91 | 1.45 | 1.33 |
| 12 | cA | 826 | CLA | C3C-C2C | 4.91 | 1.47 | 1.36 |
| 12 | cA | 841 | CLA | C3C-C2C | 4.91 | 1.47 | 1.36 |
| 12 | aB | 906 | CLA | C3C-C2C | 4.91 | 1.47 | 1.36 |
| 12 | cB | 939 | CLA | C3C-C2C | 4.91 | 1.47 | 1.36 |
| 12 | cF | 202 | CLA | C3C-C2C | 4.91 | 1.47 | 1.36 |
| 12 | aA | 825 | CLA | O2D-CGD | 4.91 | 1.45 | 1.33 |
| 12 | cB | 932 | CLA | C3B-C2B | 4.91 | 1.47 | 1.40 |
| 12 | bB | 930 | CLA | CHC-C1C | 4.91 | 1.47 | 1.35 |
| 12 | cA | 824 | CLA | C3C-C2C | 4.91 | 1.47 | 1.36 |
| 12 | cA | 827 | CLA | CHC-C1C | 4.91 | 1.47 | 1.35 |
| 12 | aL | 203 | CLA | CHC-C1C | 4.91 | 1.47 | 1.35 |
| 13 | cB | 940 | 1L3 | C06-C04 | 4.91 | 1.57 | 1.48 |
| 12 | bA | 827 | CLA | CHC-C1C | 4.91 | 1.47 | 1.35 |
| 12 | cA | 833 | CLA | C3B-C2B | 4.91 | 1.47 | 1.40 |
| 12 | aL | 202 | CLA | CHC-C1C | 4.91 | 1.47 | 1.35 |
| 12 | bA | 822 | CLA | O2D-CGD | 4.91 | 1.45 | 1.33 |
| 12 | aA | 811 | CLA | O2D-CGD | 4.90 | 1.45 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cA | 816 | CLA | O2D-CGD | 4.90 | 1.45 | 1.33 |
| 12 | bF | 202 | CLA | C3C-C2C | 4.90 | 1.47 | 1.36 |
| 12 | cA | 832 | CLA | CHC-C1C | 4.90 | 1.47 | 1.35 |
| 12 | aF | 202 | CLA | C3C-C2C | 4.90 | 1.47 | 1.36 |
| 12 | bA | 840 | CLA | O2D-CGD | 4.90 | 1.45 | 1.33 |
| 12 | aA | 844 | CLA | C3C-C2C | 4.90 | 1.47 | 1.36 |
| 12 | cA | 808 | CLA | C1D-ND | 4.90 | 1.43 | 1.37 |
| 12 | bA | 825 | CLA | O2D-CGD | 4.90 | 1.45 | 1.33 |
| 12 | bA | 819 | CLA | C3B-C2B | 4.90 | 1.47 | 1.40 |
| 12 | bB | 925 | CLA | CHC-C1C | 4.90 | 1.47 | 1.35 |
| 12 | bA | 807 | CLA | CHC-C1C | 4.90 | 1.47 | 1.35 |
| 12 | bA | 811 | CLA | O2D-CGD | 4.90 | 1.45 | 1.33 |
| 12 | aB | 928 | CLA | C3C-C2C | 4.90 | 1.47 | 1.36 |
| 12 | cB | 905 | CLA | C3C-C2C | 4.90 | 1.47 | 1.36 |
| 12 | cA | 840 | CLA | O2D-CGD | 4.89 | 1.45 | 1.33 |
| 12 | bB | 907 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | cB | 928 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | cA | 807 | CLA | CHC-C1C | 4.89 | 1.47 | 1.35 |
| 12 | aL | 204 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | aB | 939 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | cA | 825 | CLA | O2D-CGD | 4.89 | 1.45 | 1.33 |
| 12 | bA | 841 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | aB | 925 | CLA | CHC-C1C | 4.89 | 1.47 | 1.35 |
| 12 | aA | 807 | CLA | CHC-C1C | 4.89 | 1.47 | 1.35 |
| 12 | bB | 919 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | cA | 811 | CLA | O2D-CGD | 4.89 | 1.45 | 1.33 |
| 12 | bB | 950 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | cA | 818 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | cB | 907 | CLA | C3C-C2C | 4.89 | 1.47 | 1.36 |
| 12 | cB | 920 | CLA | CHC-C1C | 4.89 | 1.47 | 1.35 |
| 12 | bL | 203 | CLA | CHC-C1C | 4.89 | 1.47 | 1.35 |
| 12 | bA | 808 | CLA | O2D-CGD | 4.88 | 1.45 | 1.33 |
| 12 | aA | 824 | CLA | C3C-C2C | 4.88 | 1.47 | 1.36 |
| 12 | bA | 826 | CLA | C3C-C2C | 4.88 | 1.47 | 1.36 |
| 12 | aA | 840 | CLA | O2D-CGD | 4.88 | 1.45 | 1.33 |
| 12 | cB | 925 | CLA | CHC-C1C | 4.88 | 1.47 | 1.35 |
| 12 | aA | 822 | CLA | O2D-CGD | 4.88 | 1.45 | 1.33 |
| 12 | aA | 841 | CLA | C3C-C2C | 4.88 | 1.47 | 1.36 |
| 12 | bB | 903 | CLA | CHC-C1C | 4.88 | 1.47 | 1.35 |
| 12 | bA | 808 | CLA | C1D-ND | 4.88 | 1.43 | 1.37 |
| 11 | cA | 801 | CL0 | C3C-C2C | 4.88 | 1.47 | 1.36 |
| 12 | aF | 202 | CLA | CHC-C1C | 4.88 | 1.47 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 903 | CLA | CHC-C1C | 4.88 | 1.47 | 1.35 |
| 13 | cA | 844 | 1L3 | C06-C04 | 4.88 | 1.57 | 1.48 |
| 12 | aA | 828 | CLA | O2D-CGD | 4.88 | 1.45 | 1.33 |
| 12 | aB | 919 | CLA | C3C-C2C | 4.88 | 1.47 | 1.36 |
| 12 | bA | 828 | CLA | O2D-CGD | 4.88 | 1.45 | 1.33 |
| 12 | cA | 843 | CLA | O2D-CGD | 4.87 | 1.45 | 1.33 |
| 12 | aB | 906 | CLA | CHC-C1C | 4.87 | 1.47 | 1.35 |
| 12 | bB | 906 | CLA | CHC-C1C | 4.87 | 1.47 | 1.35 |
| 12 | cL | 203 | CLA | CHC-C1C | 4.87 | 1.47 | 1.35 |
| 12 | aA | 843 | CLA | O2D-CGD | 4.87 | 1.45 | 1.33 |
| 12 | aB | 902 | CLA | O2D-CGD | 4.87 | 1.45 | 1.33 |
| 12 | bB | 905 | CLA | C3C-C2C | 4.87 | 1.47 | 1.36 |
| 12 | bA | 835 | CLA | O2D-CGD | 4.87 | 1.45 | 1.33 |
| 12 | bA | 818 | CLA | C3C-C2C | 4.87 | 1.47 | 1.36 |
| 12 | cB | 906 | CLA | CHC-C1C | 4.87 | 1.47 | 1.35 |
| 12 | bB | 928 | CLA | C3C-C2C | 4.87 | 1.47 | 1.36 |
| 12 | aA | 808 | CLA | O2D-CGD | 4.87 | 1.45 | 1.33 |
| 12 | aB | 920 | CLA | CHC-C1C | 4.86 | 1.47 | 1.35 |
| 12 | bA | 843 | CLA | O2D-CGD | 4.86 | 1.45 | 1.33 |
| 12 | aB | 905 | CLA | C3C-C2C | 4.86 | 1.47 | 1.36 |
| 12 | cF | 202 | CLA | CHC-C1C | 4.86 | 1.47 | 1.35 |
| 13 | aA | 845 | 1L3 | C06-C04 | 4.86 | 1.57 | 1.48 |
| 12 | aA | 818 | CLA | C3C-C2C | 4.86 | 1.47 | 1.36 |
| 12 | aB | 907 | CLA | C3C-C2C | 4.86 | 1.47 | 1.36 |
| 12 | cA | 822 | CLA | O2D-CGD | 4.86 | 1.45 | 1.33 |
| 12 | bB | 920 | CLA | CHC-C1C | 4.86 | 1.47 | 1.35 |
| 12 | aB | 950 | CLA | C3C-C2C | 4.86 | 1.47 | 1.36 |
| 12 | cA | 808 | CLA | O2D-CGD | 4.86 | 1.45 | 1.33 |
| 12 | bB | 915 | CLA | CHC-C1C | 4.85 | 1.47 | 1.35 |
| 12 | aB | 908 | CLA | C1B-NB | -4.85 | 1.30 | 1.35 |
| 12 | aA | 819 | CLA | C3B-C2B | 4.85 | 1.47 | 1.40 |
| 12 | aA | 841 | CLA | O2D-CGD | 4.85 | 1.45 | 1.33 |
| 12 | bF | 202 | CLA | CHC-C1C | 4.85 | 1.47 | 1.35 |
| 13 | bA | 844 | 1L3 | C06-C04 | 4.85 | 1.57 | 1.48 |
| 12 | cB | 906 | CLA | O2D-CGD | 4.85 | 1.45 | 1.33 |
| 12 | aB | 927 | CLA | O2D-CGD | 4.85 | 1.45 | 1.33 |
| 12 | aA | 816 | CLA | CHC-C1C | 4.85 | 1.47 | 1.35 |
| 12 | aA | 803 | CLA | C3C-C2C | 4.85 | 1.47 | 1.36 |
| 12 | cA | 819 | CLA | C3B-C2B | 4.85 | 1.47 | 1.40 |
| 12 | aB | 916 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | bB | 927 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | cA | 828 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cB | 919 | CLA | C3C-C2C | 4.84 | 1.47 | 1.36 |
| 12 | bA | 806 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | cA | 835 | CLA | CHC-C1C | 4.84 | 1.47 | 1.35 |
| 12 | cA | 806 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | aB | 906 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | aB | 916 | CLA | C3C-C2C | 4.84 | 1.47 | 1.36 |
| 12 | cA | 841 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | cA | 817 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | cB | 902 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | cB | 916 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | cB | 922 | CLA | O2D-CGD | 4.84 | 1.45 | 1.33 |
| 12 | aB | 918 | CLA | C3B-C2B | 4.83 | 1.47 | 1.40 |
| 12 | bA | 823 | CLA | CHC-C1C | 4.83 | 1.47 | 1.35 |
| 12 | cA | 803 | CLA | C3C-C2C | 4.83 | 1.47 | 1.36 |
| 12 | cB | 916 | CLA | C3C-C2C | 4.83 | 1.47 | 1.36 |
| 12 | bB | 922 | CLA | O2D-CGD | 4.83 | 1.45 | 1.33 |
| 12 | cA | 812 | CLA | C3C-C2C | 4.83 | 1.47 | 1.36 |
| 12 | bA | 841 | CLA | O2D-CGD | 4.83 | 1.45 | 1.33 |
| 12 | aB | 915 | CLA | CHC-C1C | 4.83 | 1.47 | 1.35 |
| 12 | bA | 816 | CLA | CHC-C1C | 4.83 | 1.47 | 1.35 |
| 12 | aA | 823 | CLA | CHC-C1C | 4.83 | 1.47 | 1.35 |
| 12 | cB | 915 | CLA | CHC-C1C | 4.83 | 1.47 | 1.35 |
| 12 | bA | 803 | CLA | C3C-C2C | 4.83 | 1.47 | 1.36 |
| 12 | bA | 812 | CLA | C3C-C2C | 4.83 | 1.47 | 1.36 |
| 12 | cB | 920 | CLA | O2D-CGD | 4.83 | 1.45 | 1.33 |
| 12 | bB | 916 | CLA | C3C-C2C | 4.83 | 1.47 | 1.36 |
| 12 | aA | 842 | CLA | O2D-CGD | 4.83 | 1.45 | 1.33 |
| 12 | cA | 820 | CLA | O2D-CGD | 4.83 | 1.45 | 1.33 |
| 12 | aA | 812 | CLA | C3C-C2C | 4.83 | 1.47 | 1.36 |
| 12 | cA | 816 | CLA | CHC-C1C | 4.82 | 1.47 | 1.35 |
| 12 | aB | 922 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |
| 12 | bA | 817 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |
| 12 | bA | 811 | CLA | CHC-C1C | 4.82 | 1.47 | 1.35 |
| 12 | cA | 835 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |
| 12 | bA | 829 | CLA | CHC-C1C | 4.82 | 1.47 | 1.35 |
| 12 | bB | 916 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |
| 12 | bA | 835 | CLA | CHC-C1C | 4.82 | 1.47 | 1.35 |
| 12 | bB | 906 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |
| 12 | cB | 927 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |
| 12 | aA | 820 | CLA | CHC-C1C | 4.82 | 1.47 | 1.35 |
| 12 | cA | 842 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |
| 12 | aA | 832 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bA | 842 | CLA | O2D-CGD | 4.82 | 1.45 | 1.33 |
| 12 | cB | 905 | CLA | CHC-C1C | 4.82 | 1.47 | 1.35 |
| 12 | cB | 907 | CLA | O2D-CGD | 4.82 | 1.44 | 1.33 |
| 12 | cB | 926 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | cA | 809 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | bB | 905 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | aA | 806 | CLA | O2D-CGD | 4.81 | 1.44 | 1.33 |
| 12 | aA | 820 | CLA | O2D-CGD | 4.81 | 1.44 | 1.33 |
| 12 | bA | 820 | CLA | O2D-CGD | 4.81 | 1.44 | 1.33 |
| 12 | cB | 914 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | cA | 840 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | bB | 902 | CLA | O2D-CGD | 4.81 | 1.44 | 1.33 |
| 12 | cA | 811 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | bB | 926 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | bA | 809 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | cA | 823 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | aA | 835 | CLA | O2D-CGD | 4.81 | 1.44 | 1.33 |
| 12 | bA | 840 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | aB | 905 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | cA | 829 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | bB | 914 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | aA | 829 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | cA | 820 | CLA | CHC-C1C | 4.81 | 1.47 | 1.35 |
| 12 | aB | 920 | CLA | O2D-CGD | 4.80 | 1.44 | 1.33 |
| 12 | bB | 903 | CLA | C3C-C2C | 4.80 | 1.46 | 1.36 |
| 12 | cB | 929 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | aB | 911 | CLA | C3C-C2C | 4.80 | 1.46 | 1.36 |
| 12 | aA | 840 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | bA | 820 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | aA | 815 | CLA | C1D-ND | 4.80 | 1.43 | 1.37 |
| 12 | aA | 814 | CLA | C3C-C2C | 4.80 | 1.46 | 1.36 |
| 12 | aB | 926 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | bB | 920 | CLA | O2D-CGD | 4.80 | 1.44 | 1.33 |
| 12 | cA | 810 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | aA | 809 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | aB | 903 | CLA | C3C-C2C | 4.80 | 1.46 | 1.36 |
| 12 | aA | 835 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | cB | 913 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | aA | 812 | CLA | O2D-CGD | 4.80 | 1.44 | 1.33 |
| 12 | bB | 907 | CLA | O2D-CGD | 4.80 | 1.44 | 1.33 |
| 12 | bB | 932 | CLA | CHC-C1C | 4.80 | 1.47 | 1.35 |
| 12 | aB | 907 | CLA | O2D-CGD | 4.80 | 1.44 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 903 | CLA | C3C-C2C | 4.80 | 1.46 | 1.36 |
| 12 | aB | 929 | CLA | CHC-C1C | 4.79 | 1.47 | 1.35 |
| 12 | bB | 911 | CLA | O2D-CGD | 4.79 | 1.44 | 1.33 |
| 12 | bB | 908 | CLA | C1B-NB | -4.79 | 1.30 | 1.35 |
| 12 | bB | 911 | CLA | C3C-C2C | 4.79 | 1.46 | 1.36 |
| 12 | aA | 810 | CLA | CHC-C1C | 4.79 | 1.47 | 1.35 |
| 12 | bA | 823 | CLA | O2D-CGD | 4.79 | 1.44 | 1.33 |
| 12 | aA | 810 | CLA | O2D-CGD | 4.79 | 1.44 | 1.33 |
| 12 | bB | 919 | CLA | O2D-CGD | 4.79 | 1.44 | 1.33 |
| 12 | aA | 823 | CLA | O2D-CGD | 4.79 | 1.44 | 1.33 |
| 12 | bA | 810 | CLA | CHC-C1C | 4.79 | 1.47 | 1.35 |
| 12 | cB | 911 | CLA | C3C-C2C | 4.79 | 1.46 | 1.36 |
| 12 | bB | 929 | CLA | CHC-C1C | 4.79 | 1.47 | 1.35 |
| 12 | aA | 817 | CLA | O2D-CGD | 4.79 | 1.44 | 1.33 |
| 12 | aA | 838 | CLA | CHC-C1C | 4.79 | 1.47 | 1.35 |
| 12 | aB | 914 | CLA | CHC-C1C | 4.79 | 1.47 | 1.35 |
| 12 | aA | 836 | CLA | C1D-ND | 4.78 | 1.43 | 1.37 |
| 12 | cB | 935 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | bA | 810 | CLA | O2D-CGD | 4.78 | 1.44 | 1.33 |
| 12 | bB | 935 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | bA | 828 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | aA | 811 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | cA | 838 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | bA | 814 | CLA | C3C-C2C | 4.78 | 1.46 | 1.36 |
| 12 | bA | 812 | CLA | O2D-CGD | 4.78 | 1.44 | 1.33 |
| 12 | aA | 806 | CLA | C3C-C2C | 4.78 | 1.46 | 1.36 |
| 12 | bB | 936 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | bB | 913 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | aB | 913 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | aA | 808 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | aB | 932 | CLA | CHC-C1C | 4.78 | 1.47 | 1.35 |
| 12 | cA | 823 | CLA | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 12 | cA | 836 | CLA | C1D-ND | 4.77 | 1.43 | 1.37 |
| 12 | cA | 810 | CLA | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 12 | cA | 832 | CLA | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 12 | aB | 911 | CLA | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 12 | aB | 919 | CLA | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 12 | bB | 918 | CLA | C3B-C2B | 4.77 | 1.47 | 1.40 |
| 12 | bA | 832 | CLA | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 12 | cB | 919 | CLA | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 12 | bB | 908 | CLA | O2D-CGD | 4.77 | 1.44 | 1.33 |
| 12 | aB | 901 | CLA | C3C-C2C | 4.77 | 1.46 | 1.36 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cA | 806 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | bA | 808 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | aB | 936 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | bB | 928 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | cB | 936 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | aB | 918 | CLA | O2D-CGD | 4.76 | 1.44 | 1.33 |
| 12 | bA | 838 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | cA | 828 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | cA | 808 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | bA | 826 | CLA | O2D-CGD | 4.76 | 1.44 | 1.33 |
| 12 | cA | 802 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | cB | 918 | CLA | C3B-C2B | 4.76 | 1.47 | 1.40 |
| 12 | aB | 928 | CLA | CHC-C1C | 4.76 | 1.47 | 1.35 |
| 12 | aA | 817 | CLA | C1D-ND | 4.76 | 1.43 | 1.37 |
| 12 | aA | 802 | CLA | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 12 | cB | 908 | CLA | O2D-CGD | 4.75 | 1.44 | 1.33 |
| 12 | bB | 926 | CLA | C3C-C2C | 4.75 | 1.46 | 1.36 |
| 12 | aA | 826 | CLA | O2D-CGD | 4.75 | 1.44 | 1.33 |
| 12 | bA | 805 | CLA | O2D-CGD | 4.75 | 1.44 | 1.33 |
| 12 | bA | 826 | CLA | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 12 | cB | 932 | CLA | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 12 | cB | 911 | CLA | O2D-CGD | 4.75 | 1.44 | 1.33 |
| 12 | cB | 918 | CLA | O2D-CGD | 4.75 | 1.44 | 1.33 |
| 12 | aB | 935 | CLA | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 12 | cA | 803 | CLA | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 12 | aA | 828 | CLA | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 12 | aA | 821 | CLA | C3B-C2B | 4.75 | 1.47 | 1.40 |
| 12 | aB | 908 | CLA | O2D-CGD | 4.75 | 1.44 | 1.33 |
| 12 | cA | 806 | CLA | C3C-C2C | 4.75 | 1.46 | 1.36 |
| 12 | cA | 821 | CLA | C3B-C2B | 4.75 | 1.47 | 1.40 |
| 12 | cA | 819 | CLA | CHC-C1C | 4.75 | 1.47 | 1.35 |
| 12 | bA | 836 | CLA | C1D-ND | 4.74 | 1.43 | 1.37 |
| 12 | cB | 901 | CLA | C3C-C2C | 4.74 | 1.46 | 1.36 |
| 12 | bB | 918 | CLA | O2D-CGD | 4.74 | 1.44 | 1.33 |
| 12 | cA | 826 | CLA | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 12 | cA | 812 | CLA | O2D-CGD | 4.74 | 1.44 | 1.33 |
| 12 | cA | 814 | CLA | C3C-C2C | 4.74 | 1.46 | 1.36 |
| 12 | bB | 909 | CLA | C3C-C2C | 4.74 | 1.46 | 1.36 |
| 12 | aA | 826 | CLA | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 12 | bA | 802 | CLA | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 12 | bA | 815 | CLA | C1D-ND | 4.74 | 1.43 | 1.37 |
| 12 | cA | 826 | CLA | O2D-CGD | 4.74 | 1.44 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 819 | CLA | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 12 | cB | 926 | CLA | C3C-C2C | 4.74 | 1.46 | 1.36 |
| 12 | bA | 803 | CLA | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 12 | aB | 904 | CLA | C3C-C2C | 4.74 | 1.46 | 1.36 |
| 12 | cB | 924 | CLA | CHC-C1C | 4.74 | 1.47 | 1.35 |
| 12 | bB | 924 | CLA | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 12 | aA | 805 | CLA | O2D-CGD | 4.73 | 1.44 | 1.33 |
| 12 | cB | 928 | CLA | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 12 | aB | 926 | CLA | C3C-C2C | 4.73 | 1.46 | 1.36 |
| 12 | cB | 909 | CLA | C3C-C2C | 4.73 | 1.46 | 1.36 |
| 12 | bA | 806 | CLA | C3C-C2C | 4.73 | 1.46 | 1.36 |
| 12 | cB | 908 | CLA | C1B-NB | -4.73 | 1.31 | 1.35 |
| 12 | bA | 817 | CLA | C1D-ND | 4.73 | 1.43 | 1.37 |
| 12 | bA | 804 | CLA | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 12 | bB | 918 | CLA | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 12 | cB | 904 | CLA | C3C-C2C | 4.73 | 1.46 | 1.36 |
| 12 | aA | 818 | CLA | CHC-C1C | 4.73 | 1.47 | 1.35 |
| 12 | bA | 818 | CLA | CHC-C1C | 4.72 | 1.47 | 1.35 |
| 12 | cB | 926 | CLA | O2D-CGD | 4.72 | 1.44 | 1.33 |
| 12 | bB | 904 | CLA | C3C-C2C | 4.72 | 1.46 | 1.36 |
| 12 | cA | 831 | CLA | O2D-CGD | 4.72 | 1.44 | 1.33 |
| 12 | aB | 924 | CLA | CHC-C1C | 4.72 | 1.47 | 1.35 |
| 12 | bA | 821 | CLA | C3B-C2B | 4.72 | 1.46 | 1.40 |
| 12 | aA | 813 | CLA | O2D-CGD | 4.72 | 1.44 | 1.33 |
| 12 | aA | 806 | CLA | CHC-C1C | 4.72 | 1.47 | 1.35 |
| 12 | bA | 831 | CLA | O2D-CGD | 4.71 | 1.44 | 1.33 |
| 12 | aB | 909 | CLA | C3C-C2C | 4.71 | 1.46 | 1.36 |
| 12 | cA | 805 | CLA | O2D-CGD | 4.71 | 1.44 | 1.33 |
| 12 | cB | 923 | CLA | O2D-CGD | 4.71 | 1.44 | 1.33 |
| 12 | cB | 904 | CLA | CHC-C1C | 4.71 | 1.47 | 1.35 |
| 12 | bB | 910 | CLA | CHC-C1C | 4.71 | 1.47 | 1.35 |
| 12 | bB | 901 | CLA | C3C-C2C | 4.71 | 1.46 | 1.36 |
| 12 | bA | 806 | CLA | CHC-C1C | 4.71 | 1.47 | 1.35 |
| 12 | aB | 915 | CLA | C1D-ND | 4.71 | 1.43 | 1.37 |
| 12 | cB | 917 | CLA | C3C-C2C | 4.71 | 1.46 | 1.36 |
| 12 | cB | 910 | CLA | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 12 | cA | 804 | CLA | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 12 | cA | 818 | CLA | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 12 | aA | 804 | CLA | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 12 | cA | 815 | CLA | C1D-ND | 4.70 | 1.43 | 1.37 |
| 12 | bA | 819 | CLA | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 12 | bB | 904 | CLA | CHC-C1C | 4.70 | 1.47 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | aA | 803 | CLA | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 12 | aA | 820 | CLA | O2A-CGA | 4.70 | 1.47 | 1.33 |
| 12 | cA | 820 | CLA | O2A-CGA | 4.70 | 1.47 | 1.33 |
| 12 | bB | 926 | CLA | O2D-CGD | 4.70 | 1.44 | 1.33 |
| 12 | aA | 804 | CLA | O2D-CGD | 4.70 | 1.44 | 1.33 |
| 12 | aB | 904 | CLA | CHC-C1C | 4.70 | 1.47 | 1.35 |
| 12 | aA | 831 | CLA | O2D-CGD | 4.69 | 1.44 | 1.33 |
| 12 | aB | 911 | CLA | CHC-C1C | 4.69 | 1.47 | 1.35 |
| 12 | aB | 926 | CLA | O2D-CGD | 4.69 | 1.44 | 1.33 |
| 12 | aB | 923 | CLA | O2D-CGD | 4.69 | 1.44 | 1.33 |
| 12 | bB | 917 | CLA | C3C-C2C | 4.69 | 1.46 | 1.36 |
| 12 | aB | 901 | CLA | CHC-C1C | 4.69 | 1.47 | 1.35 |
| 12 | cA | 804 | CLA | O2D-CGD | 4.69 | 1.44 | 1.33 |
| 12 | cB | 918 | CLA | CHC-C1C | 4.69 | 1.47 | 1.35 |
| 12 | aL | 204 | CLA | C1D-ND | 4.69 | 1.43 | 1.37 |
| 12 | aB | 917 | CLA | CHC-C1C | 4.68 | 1.47 | 1.35 |
| 12 | aB | 917 | CLA | C3C-C2C | 4.68 | 1.46 | 1.36 |
| 12 | aB | 910 | CLA | CHC-C1C | 4.68 | 1.47 | 1.35 |
| 12 | bB | 921 | CLA | O2D-CGD | 4.68 | 1.44 | 1.33 |
| 12 | bA | 827 | CLA | O2D-CGD | 4.68 | 1.44 | 1.33 |
| 12 | bB | 911 | CLA | CHC-C1C | 4.68 | 1.47 | 1.35 |
| 12 | bA | 813 | CLA | O2D-CGD | 4.68 | 1.44 | 1.33 |
| 12 | aA | 827 | CLA | O2D-CGD | 4.68 | 1.44 | 1.33 |
| 12 | aB | 918 | CLA | CHC-C1C | 4.68 | 1.47 | 1.35 |
| 12 | bA | 820 | CLA | O2A-CGA | 4.67 | 1.47 | 1.33 |
| 12 | bB | 915 | CLA | C1D-ND | 4.67 | 1.43 | 1.37 |
| 12 | cL | 204 | CLA | C1D-ND | 4.67 | 1.43 | 1.37 |
| 12 | aB | 912 | CLA | C3B-C2B | 4.67 | 1.46 | 1.40 |
| 12 | cB | 932 | CLA | O2D-CGD | 4.67 | 1.44 | 1.33 |
| 12 | aB | 921 | CLA | O2D-CGD | 4.67 | 1.44 | 1.33 |
| 12 | cA | 817 | CLA | C1D-ND | 4.67 | 1.43 | 1.37 |
| 12 | aA | 817 | CLA | O2A-CGA | 4.66 | 1.47 | 1.33 |
| 12 | cA | 819 | CLA | O2D-CGD | 4.66 | 1.44 | 1.33 |
| 12 | cA | 813 | CLA | O2D-CGD | 4.66 | 1.44 | 1.33 |
| 12 | bB | 901 | CLA | CHC-C1C | 4.66 | 1.46 | 1.35 |
| 12 | bB | 923 | CLA | O2D-CGD | 4.66 | 1.44 | 1.33 |
| 12 | aA | 844 | CLA | CHC-C1C | 4.66 | 1.46 | 1.35 |
| 12 | bB | 950 | CLA | CHC-C1C | 4.66 | 1.46 | 1.35 |
| 12 | cB | 911 | CLA | CHC-C1C | 4.66 | 1.46 | 1.35 |
| 12 | bA | 804 | CLA | O2D-CGD | 4.66 | 1.44 | 1.33 |
| 12 | bA | 838 | CLA | O2D-CGD | 4.66 | 1.44 | 1.33 |
| 12 | cB | 921 | CLA | O2D-CGD | 4.66 | 1.44 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 912 | CLA | C3B-C2B | 4.66 | 1.46 | 1.40 |
| 12 | aB | 950 | CLA | CHC-C1C | 4.66 | 1.46 | 1.35 |
| 12 | cB | 917 | CLA | CHC-C1C | 4.66 | 1.46 | 1.35 |
| 12 | bB | 917 | CLA | CHC-C1C | 4.65 | 1.46 | 1.35 |
| 12 | cB | 915 | CLA | C1D-ND | 4.65 | 1.43 | 1.37 |
| 12 | cA | 817 | CLA | O2A-CGA | 4.65 | 1.46 | 1.33 |
| 12 | bB | 932 | CLA | O2D-CGD | 4.65 | 1.44 | 1.33 |
| 12 | cB | 901 | CLA | CHC-C1C | 4.65 | 1.46 | 1.35 |
| 12 | bL | 204 | CLA | C1D-ND | 4.65 | 1.43 | 1.37 |
| 12 | cB | 902 | CLA | CHC-C1C | 4.65 | 1.46 | 1.35 |
| 12 | bB | 927 | CLA | C1B-NB | -4.65 | 1.31 | 1.35 |
| 12 | cA | 827 | CLA | O2D-CGD | 4.65 | 1.44 | 1.33 |
| 12 | bB | 902 | CLA | CHC-C1C | 4.65 | 1.46 | 1.35 |
| 12 | cB | 921 | CLA | C1D-ND | 4.65 | 1.43 | 1.37 |
| 12 | cA | 838 | CLA | O2D-CGD | 4.65 | 1.44 | 1.33 |
| 12 | bA | 819 | CLA | O2D-CGD | 4.65 | 1.44 | 1.33 |
| 12 | bB | 910 | CLA | O2A-CGA | 4.64 | 1.46 | 1.30 |
| 12 | aA | 837 | CLA | CHC-C1C | 4.64 | 1.46 | 1.35 |
| 12 | aB | 910 | CLA | O2A-CGA | 4.64 | 1.46 | 1.30 |
| 12 | bB | 937 | CLA | O2D-CGD | 4.64 | 1.44 | 1.33 |
| 12 | aA | 819 | CLA | O2D-CGD | 4.64 | 1.44 | 1.33 |
| 12 | aB | 932 | CLA | O2D-CGD | 4.64 | 1.44 | 1.33 |
| 12 | aA | 804 | CLA | O2A-CGA | 4.64 | 1.46 | 1.33 |
| 12 | aB | 902 | CLA | CHC-C1C | 4.63 | 1.46 | 1.35 |
| 12 | aA | 830 | CLA | CHC-C1C | 4.63 | 1.46 | 1.35 |
| 12 | cA | 804 | CLA | O2A-CGA | 4.63 | 1.46 | 1.33 |
| 12 | aB | 927 | CLA | C1B-NB | -4.63 | 1.31 | 1.35 |
| 12 | bA | 817 | CLA | O2A-CGA | 4.63 | 1.46 | 1.33 |
| 12 | bB | 930 | CLA | O2D-CGD | 4.63 | 1.44 | 1.33 |
| 12 | bB | 927 | CLA | CHC-C1C | 4.63 | 1.46 | 1.35 |
| 12 | cB | 910 | CLA | O2A-CGA | 4.63 | 1.46 | 1.30 |
| 12 | aA | 834 | CLA | O2D-CGD | 4.63 | 1.44 | 1.33 |
| 12 | bB | 921 | CLA | C1D-ND | 4.63 | 1.43 | 1.37 |
| 12 | cB | 930 | CLA | O2D-CGD | 4.63 | 1.44 | 1.33 |
| 12 | bA | 815 | CLA | O2D-CGD | 4.63 | 1.44 | 1.33 |
| 12 | aB | 930 | CLA | O2D-CGD | 4.62 | 1.44 | 1.33 |
| 12 | aA | 807 | CLA | C3C-C2C | 4.62 | 1.46 | 1.36 |
| 12 | bA | 830 | CLA | CHC-C1C | 4.62 | 1.46 | 1.35 |
| 12 | cA | 830 | CLA | CHC-C1C | 4.62 | 1.46 | 1.35 |
| 12 | cA | 837 | CLA | CHC-C1C | 4.62 | 1.46 | 1.35 |
| 12 | aA | 838 | CLA | O2D-CGD | 4.62 | 1.44 | 1.33 |
| 11 | aA | 801 | CL0 | CHC-C1C | 4.62 | 1.46 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 921 | CLA | C1D-ND | 4.62 | 1.43 | 1.37 |
| 12 | bA | 833 | CLA | CHC-C1C | 4.62 | 1.46 | 1.35 |
| 12 | aB | 929 | CLA | O2A-CGA | 4.62 | 1.46 | 1.30 |
| 12 | bB | 912 | CLA | C3B-C2B | 4.62 | 1.46 | 1.40 |
| 12 | aA | 815 | CLA | O2D-CGD | 4.61 | 1.44 | 1.33 |
| 12 | aB | 927 | CLA | CHC-C1C | 4.61 | 1.46 | 1.35 |
| 12 | bA | 837 | CLA | CHC-C1C | 4.61 | 1.46 | 1.35 |
| 12 | cB | 927 | CLA | C1B-NB | -4.61 | 1.31 | 1.35 |
| 12 | cB | 937 | CLA | O2D-CGD | 4.61 | 1.44 | 1.33 |
| 12 | cB | 929 | CLA | O2A-CGA | 4.61 | 1.46 | 1.30 |
| 12 | aB | 937 | CLA | O2D-CGD | 4.61 | 1.44 | 1.33 |
| 12 | cA | 807 | CLA | C3C-C2C | 4.61 | 1.46 | 1.36 |
| 12 | cA | 815 | CLA | O2D-CGD | 4.61 | 1.44 | 1.33 |
| 12 | bA | 804 | CLA | O2A-CGA | 4.61 | 1.46 | 1.33 |
| 12 | bB | 929 | CLA | O2A-CGA | 4.61 | 1.46 | 1.30 |
| 12 | cB | 937 | CLA | C1D-ND | 4.60 | 1.43 | 1.37 |
| 12 | cA | 834 | CLA | O2D-CGD | 4.60 | 1.44 | 1.33 |
| 12 | bA | 807 | CLA | C3C-C2C | 4.60 | 1.46 | 1.36 |
| 12 | bB | 912 | CLA | CHC-C1C | 4.60 | 1.46 | 1.35 |
| 12 | bB | 938 | CLA | CHC-C1C | 4.60 | 1.46 | 1.35 |
| 12 | bB | 908 | CLA | C3C-C2C | 4.60 | 1.46 | 1.36 |
| 11 | cA | 801 | CL0 | CHC-C1C | 4.60 | 1.46 | 1.35 |
| 12 | aB | 914 | CLA | C1D-ND | 4.59 | 1.43 | 1.37 |
| 12 | aB | 904 | CLA | O2D-CGD | 4.59 | 1.44 | 1.33 |
| 12 | aA | 833 | CLA | CHC-C1C | 4.59 | 1.46 | 1.35 |
| 12 | aB | 912 | CLA | CHC-C1C | 4.59 | 1.46 | 1.35 |
| 12 | aA | 818 | CLA | O2D-CGD | 4.59 | 1.44 | 1.33 |
| 12 | aA | 803 | CLA | O2D-CGD | 4.59 | 1.44 | 1.33 |
| 12 | bA | 834 | CLA | O2D-CGD | 4.59 | 1.44 | 1.33 |
| 12 | cB | 927 | CLA | CHC-C1C | 4.59 | 1.46 | 1.35 |
| 12 | cB | 912 | CLA | CHC-C1C | 4.59 | 1.46 | 1.35 |
| 12 | aB | 938 | CLA | CHC-C1C | 4.59 | 1.46 | 1.35 |
| 11 | bA | 801 | CL0 | CHC-C1C | 4.58 | 1.46 | 1.35 |
| 12 | cB | 908 | CLA | C3C-C2C | 4.58 | 1.46 | 1.36 |
| 12 | aA | 836 | CLA | CHC-C1C | 4.58 | 1.46 | 1.35 |
| 12 | cB | 904 | CLA | O2D-CGD | 4.58 | 1.44 | 1.33 |
| 12 | cB | 914 | CLA | C1D-ND | 4.58 | 1.43 | 1.37 |
| 12 | bB | 920 | CLA | O2A-CGA | 4.57 | 1.46 | 1.30 |
| 12 | bA | 811 | CLA | C1D-ND | 4.57 | 1.43 | 1.37 |
| 12 | cA | 833 | CLA | CHC-C1C | 4.57 | 1.46 | 1.35 |
| 12 | aB | 908 | CLA | C3C-C2C | 4.57 | 1.46 | 1.36 |
| 12 | bA | 803 | CLA | O2D-CGD | 4.57 | 1.44 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bA | 818 | CLA | O2D-CGD | 4.57 | 1.44 | 1.33 |
| 12 | bA | 836 | CLA | CHC-C1C | 4.57 | 1.46 | 1.35 |
| 12 | bB | 937 | CLA | C1D-ND | 4.57 | 1.43 | 1.37 |
| 12 | cA | 834 | CLA | C3B-C2B | 4.57 | 1.46 | 1.40 |
| 12 | cL | 202 | CLA | O2D-CGD | 4.57 | 1.44 | 1.33 |
| 12 | aB | 950 | CLA | O2A-CGA | 4.57 | 1.46 | 1.30 |
| 12 | cB | 914 | CLA | O2D-CGD | 4.57 | 1.44 | 1.33 |
| 12 | aF | 202 | CLA | O2A-CGA | 4.57 | 1.46 | 1.30 |
| 12 | aL | 202 | CLA | O2D-CGD | 4.57 | 1.44 | 1.33 |
| 12 | aB | 937 | CLA | C1D-ND | 4.57 | 1.43 | 1.37 |
| 12 | bB | 917 | CLA | O2D-CGD | 4.56 | 1.44 | 1.33 |
| 12 | aA | 844 | CLA | O2A-CGA | 4.56 | 1.46 | 1.30 |
| 12 | bF | 202 | CLA | O2A-CGA | 4.56 | 1.46 | 1.30 |
| 12 | bA | 843 | CLA | CHC-C1C | 4.56 | 1.46 | 1.35 |
| 12 | cB | 920 | CLA | O2A-CGA | 4.56 | 1.46 | 1.30 |
| 12 | cB | 938 | CLA | CHC-C1C | 4.56 | 1.46 | 1.35 |
| 12 | bA | 836 | CLA | O2A-CGA | 4.56 | 1.46 | 1.30 |
| 12 | cB | 939 | CLA | O2A-CGA | 4.56 | 1.46 | 1.30 |
| 12 | bB | 904 | CLA | O2D-CGD | 4.56 | 1.44 | 1.33 |
| 12 | cA | 803 | CLA | O2D-CGD | 4.56 | 1.44 | 1.33 |
| 12 | bB | 914 | CLA | C1D-ND | 4.55 | 1.43 | 1.37 |
| 12 | aB | 939 | CLA | O2A-CGA | 4.55 | 1.46 | 1.30 |
| 12 | cA | 836 | CLA | CHC-C1C | 4.55 | 1.46 | 1.35 |
| 12 | bL | 202 | CLA | O2D-CGD | 4.55 | 1.44 | 1.33 |
| 12 | aA | 843 | CLA | C3C-C2C | 4.55 | 1.46 | 1.36 |
| 12 | aB | 914 | CLA | O2D-CGD | 4.55 | 1.44 | 1.33 |
| 12 | cA | 810 | CLA | O2A-CGA | 4.55 | 1.46 | 1.30 |
| 12 | cB | 909 | CLA | O2D-CGD | 4.55 | 1.44 | 1.33 |
| 12 | bB | 939 | CLA | O2A-CGA | 4.55 | 1.46 | 1.30 |
| 12 | cF | 202 | CLA | O2A-CGA | 4.55 | 1.46 | 1.30 |
| 12 | cA | 818 | CLA | O2D-CGD | 4.55 | 1.44 | 1.33 |
| 12 | bB | 925 | CLA | O2D-CGD | 4.55 | 1.44 | 1.33 |
| 12 | aB | 909 | CLA | O2D-CGD | 4.55 | 1.44 | 1.33 |
| 12 | bB | 950 | CLA | O2A-CGA | 4.54 | 1.46 | 1.30 |
| 12 | bA | 810 | CLA | O2A-CGA | 4.54 | 1.46 | 1.30 |
| 12 | aB | 920 | CLA | O2A-CGA | 4.54 | 1.46 | 1.30 |
| 12 | aB | 925 | CLA | O2D-CGD | 4.54 | 1.44 | 1.33 |
| 12 | bB | 909 | CLA | O2D-CGD | 4.54 | 1.44 | 1.33 |
| 12 | cA | 836 | CLA | O2A-CGA | 4.54 | 1.46 | 1.30 |
| 12 | bB | 920 | CLA | C1D-ND | 4.54 | 1.43 | 1.37 |
| 12 | aA | 836 | CLA | O2A-CGA | 4.54 | 1.46 | 1.30 |
| 12 | cA | 843 | CLA | CHC-C1C | 4.54 | 1.46 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 914 | CLA | O2D-CGD | 4.54 | 1.44 | 1.33 |
| 12 | aA | 810 | CLA | O2A-CGA | 4.54 | 1.46 | 1.30 |
| 12 | cB | 917 | CLA | O2D-CGD | 4.53 | 1.44 | 1.33 |
| 12 | bA | 811 | CLA | O2A-CGA | 4.53 | 1.46 | 1.30 |
| 12 | aB | 933 | CLA | O2D-CGD | 4.53 | 1.44 | 1.33 |
| 12 | bB | 933 | CLA | O2D-CGD | 4.52 | 1.44 | 1.33 |
| 12 | aB | 930 | CLA | C1D-ND | 4.52 | 1.43 | 1.37 |
| 12 | bA | 815 | CLA | O2A-CGA | 4.52 | 1.46 | 1.30 |
| 12 | aL | 203 | CLA | O2D-CGD | 4.52 | 1.44 | 1.33 |
| 12 | cL | 204 | CLA | O2A-CGA | 4.52 | 1.46 | 1.30 |
| 12 | aB | 934 | CLA | CHD-C1D | 4.52 | 1.47 | 1.38 |
| 12 | aB | 936 | CLA | O2D-CGD | 4.52 | 1.44 | 1.33 |
| 12 | aA | 843 | CLA | CHC-C1C | 4.52 | 1.46 | 1.35 |
| 12 | aA | 815 | CLA | O2A-CGA | 4.52 | 1.45 | 1.30 |
| 12 | aB | 920 | CLA | C1D-ND | 4.52 | 1.43 | 1.37 |
| 12 | aA | 842 | CLA | CHC-C1C | 4.52 | 1.46 | 1.35 |
| 12 | bB | 908 | CLA | C3B-C2B | 4.52 | 1.46 | 1.40 |
| 12 | cA | 803 | CLA | C1B-NB | -4.51 | 1.31 | 1.35 |
| 12 | aA | 811 | CLA | C1D-ND | 4.51 | 1.43 | 1.37 |
| 12 | bL | 203 | CLA | O2D-CGD | 4.51 | 1.44 | 1.33 |
| 12 | cA | 815 | CLA | O2A-CGA | 4.51 | 1.45 | 1.30 |
| 12 | cA | 811 | CLA | C1D-ND | 4.51 | 1.43 | 1.37 |
| 12 | bA | 809 | CLA | O2D-CGD | 4.51 | 1.44 | 1.33 |
| 12 | bA | 812 | CLA | CHC-C1C | 4.51 | 1.46 | 1.35 |
| 12 | aA | 812 | CLA | CHC-C1C | 4.51 | 1.46 | 1.35 |
| 12 | aB | 917 | CLA | O2D-CGD | 4.51 | 1.44 | 1.33 |
| 12 | bL | 204 | CLA | O2A-CGA | 4.51 | 1.45 | 1.30 |
| 12 | bB | 934 | CLA | CHD-C1D | 4.51 | 1.47 | 1.38 |
| 12 | cA | 811 | CLA | O2A-CGA | 4.51 | 1.45 | 1.30 |
| 12 | aL | 204 | CLA | O2A-CGA | 4.51 | 1.45 | 1.30 |
| 12 | cA | 824 | CLA | CHC-C1C | 4.51 | 1.46 | 1.35 |
| 12 | cB | 936 | CLA | O2D-CGD | 4.51 | 1.44 | 1.33 |
| 12 | bB | 936 | CLA | C1D-ND | 4.51 | 1.43 | 1.37 |
| 12 | aB | 908 | CLA | C3B-C2B | 4.50 | 1.46 | 1.40 |
| 12 | aA | 834 | CLA | CHC-C1C | 4.50 | 1.46 | 1.35 |
| 12 | cB | 908 | CLA | C3B-C2B | 4.50 | 1.46 | 1.40 |
| 12 | cB | 925 | CLA | O2D-CGD | 4.50 | 1.44 | 1.33 |
| 12 | aA | 813 | CLA | O2A-CGA | 4.50 | 1.45 | 1.30 |
| 12 | cA | 813 | CLA | O2A-CGA | 4.50 | 1.45 | 1.30 |
| 12 | cB | 920 | CLA | C1D-ND | 4.50 | 1.43 | 1.37 |
| 12 | bA | 843 | CLA | C3C-C2C | 4.50 | 1.46 | 1.36 |
| 12 | bA | 813 | CLA | O2A-CGA | 4.50 | 1.45 | 1.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 843 | CLA | C3C-C2C | 4.50 | 1.46 | 1.36 |
| 12 | bA | 814 | CLA | O2A-CGA | 4.50 | 1.45 | 1.30 |
| 12 | cB | 933 | CLA | O2D-CGD | 4.50 | 1.44 | 1.33 |
| 12 | bA | 853 | CLA | O2D-CGD | 4.50 | 1.44 | 1.33 |
| 12 | bB | 924 | CLA | O2D-CGD | 4.50 | 1.44 | 1.33 |
| 12 | aA | 834 | CLA | C3B-C2B | 4.50 | 1.46 | 1.40 |
| 12 | aB | 936 | CLA | C1D-ND | 4.50 | 1.43 | 1.37 |
| 12 | bB | 936 | CLA | O2D-CGD | 4.50 | 1.44 | 1.33 |
| 12 | bB | 928 | CLA | O2A-CGA | 4.50 | 1.46 | 1.33 |
| 12 | cA | 842 | CLA | CHC-C1C | 4.50 | 1.46 | 1.35 |
| 12 | cB | 928 | CLA | O2A-CGA | 4.50 | 1.46 | 1.33 |
| 12 | bB | 930 | CLA | C1D-ND | 4.49 | 1.43 | 1.37 |
| 12 | aB | 924 | CLA | O2D-CGD | 4.49 | 1.44 | 1.33 |
| 12 | bA | 834 | CLA | C3B-C2B | 4.49 | 1.46 | 1.40 |
| 12 | bA | 842 | CLA | CHC-C1C | 4.49 | 1.46 | 1.35 |
| 12 | aA | 811 | CLA | O2A-CGA | 4.49 | 1.45 | 1.30 |
| 12 | bA | 834 | CLA | CHC-C1C | 4.49 | 1.46 | 1.35 |
| 12 | cA | 834 | CLA | CHC-C1C | 4.49 | 1.46 | 1.35 |
| 12 | aA | 803 | CLA | C1B-NB | -4.49 | 1.31 | 1.35 |
| 12 | cA | 809 | CLA | O2D-CGD | 4.49 | 1.44 | 1.33 |
| 12 | cL | 204 | CLA | O2D-CGD | 4.49 | 1.44 | 1.33 |
| 12 | bA | 803 | CLA | C1B-NB | -4.49 | 1.31 | 1.35 |
| 12 | bB | 911 | CLA | O2A-CGA | 4.49 | 1.45 | 1.30 |
| 12 | aA | 854 | CLA | O2D-CGD | 4.48 | 1.44 | 1.33 |
| 12 | aA | 814 | CLA | O2A-CGA | 4.48 | 1.45 | 1.30 |
| 12 | cA | 812 | CLA | CHC-C1C | 4.48 | 1.46 | 1.35 |
| 13 | bA | 844 | 1L3 | C11-C12 | 4.48 | 1.56 | 1.48 |
| 12 | cA | 814 | CLA | CHC-C1C | 4.48 | 1.46 | 1.35 |
| 12 | aB | 902 | CLA | C3C-C2C | 4.48 | 1.46 | 1.36 |
| 12 | aB | 928 | CLA | C1B-NB | -4.48 | 1.31 | 1.35 |
| 12 | cA | 825 | CLA | C1D-ND | 4.48 | 1.43 | 1.37 |
| 12 | cB | 936 | CLA | C1D-ND | 4.48 | 1.43 | 1.37 |
| 12 | aA | 822 | CLA | O2A-CGA | 4.48 | 1.46 | 1.33 |
| 12 | aA | 809 | CLA | O2D-CGD | 4.48 | 1.44 | 1.33 |
| 12 | aA | 824 | CLA | CHC-C1C | 4.48 | 1.46 | 1.35 |
| 12 | aB | 928 | CLA | O2A-CGA | 4.48 | 1.46 | 1.33 |
| 12 | cA | 814 | CLA | O2D-CGD | 4.48 | 1.44 | 1.33 |
| 12 | aB | 914 | CLA | O2A-CGA | 4.47 | 1.45 | 1.30 |
| 12 | aL | 204 | CLA | O2D-CGD | 4.47 | 1.44 | 1.33 |
| 12 | cB | 934 | CLA | CHD-C1D | 4.47 | 1.47 | 1.38 |
| 12 | cB | 903 | CLA | O2D-CGD | 4.47 | 1.44 | 1.33 |
| 13 | aA | 845 | 1L3 | C11-C12 | 4.47 | 1.56 | 1.48 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | aA | 814 | CLA | O2D-CGD | 4.47 | 1.44 | 1.33 |
| 12 | bA | 824 | CLA | CHC-C1C | 4.47 | 1.46 | 1.35 |
| 12 | cA | 814 | CLA | O2A-CGA | 4.47 | 1.45 | 1.30 |
| 12 | cB | 924 | CLA | O2D-CGD | 4.47 | 1.44 | 1.33 |
| 12 | bB | 914 | CLA | O2A-CGA | 4.47 | 1.45 | 1.30 |
| 12 | bB | 934 | CLA | O2A-CGA | 4.47 | 1.45 | 1.30 |
| 12 | aB | 903 | CLA | O2D-CGD | 4.47 | 1.44 | 1.33 |
| 12 | aA | 812 | CLA | O2A-CGA | 4.47 | 1.46 | 1.33 |
| 12 | bA | 812 | CLA | O2A-CGA | 4.47 | 1.46 | 1.33 |
| 12 | aB | 911 | CLA | O2A-CGA | 4.47 | 1.45 | 1.30 |
| 12 | cA | 822 | CLA | O2A-CGA | 4.47 | 1.46 | 1.33 |
| 12 | cB | 914 | CLA | O2A-CGA | 4.46 | 1.45 | 1.30 |
| 12 | cL | 203 | CLA | O2D-CGD | 4.46 | 1.44 | 1.33 |
| 12 | cA | 853 | CLA | O2D-CGD | 4.46 | 1.44 | 1.33 |
| 12 | bA | 814 | CLA | CHC-C1C | 4.46 | 1.46 | 1.35 |
| 12 | aB | 934 | CLA | O2A-CGA | 4.46 | 1.45 | 1.30 |
| 13 | cA | 844 | 1L3 | C11-C12 | 4.46 | 1.56 | 1.48 |
| 12 | cA | 812 | CLA | O2A-CGA | 4.46 | 1.46 | 1.33 |
| 12 | cB | 933 | CLA | CHC-C1C | 4.46 | 1.46 | 1.35 |
| 12 | bA | 814 | CLA | O2D-CGD | 4.46 | 1.44 | 1.33 |
| 11 | aA | 801 | CL0 | O2D-CGD | 4.46 | 1.44 | 1.33 |
| 12 | cB | 902 | CLA | C3C-C2C | 4.46 | 1.46 | 1.36 |
| 12 | cB | 911 | CLA | O2A-CGA | 4.46 | 1.45 | 1.30 |
| 12 | cB | 925 | CLA | C1D-ND | 4.45 | 1.43 | 1.37 |
| 12 | bA | 822 | CLA | O2A-CGA | 4.45 | 1.46 | 1.33 |
| 12 | cB | 934 | CLA | O2A-CGA | 4.45 | 1.45 | 1.30 |
| 11 | bA | 801 | CL0 | O2D-CGD | 4.45 | 1.44 | 1.33 |
| 12 | aA | 814 | CLA | CHC-C1C | 4.45 | 1.46 | 1.35 |
| 12 | cB | 930 | CLA | C1D-ND | 4.45 | 1.43 | 1.37 |
| 12 | bB | 925 | CLA | C1D-ND | 4.45 | 1.43 | 1.37 |
| 12 | bA | 840 | CLA | C1D-ND | 4.44 | 1.43 | 1.37 |
| 12 | bB | 903 | CLA | O2D-CGD | 4.44 | 1.44 | 1.33 |
| 12 | aA | 829 | CLA | O2D-CGD | 4.44 | 1.44 | 1.33 |
| 12 | bL | 204 | CLA | O2D-CGD | 4.44 | 1.44 | 1.33 |
| 12 | bB | 902 | CLA | C3C-C2C | 4.44 | 1.46 | 1.36 |
| 12 | aA | 839 | CLA | O2D-CGD | 4.44 | 1.44 | 1.33 |
| 12 | cA | 802 | CLA | O2D-CGD | 4.44 | 1.44 | 1.33 |
| 12 | bB | 922 | CLA | O2A-CGA | 4.44 | 1.45 | 1.30 |
| 12 | cB | 933 | CLA | O2A-CGA | 4.43 | 1.45 | 1.30 |
| 12 | cA | 805 | CLA | O2A-CGA | 4.43 | 1.46 | 1.33 |
| 12 | cA | 829 | CLA | O2D-CGD | 4.43 | 1.44 | 1.33 |
| 12 | bB | 933 | CLA | O2A-CGA | 4.43 | 1.45 | 1.30 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 922 | CLA | O2A-CGA | 4.43 | 1.45 | 1.30 |
| 12 | aA | 805 | CLA | O2A-CGA | 4.43 | 1.46 | 1.33 |
| 12 | cB | 913 | CLA | O2D-CGD | 4.43 | 1.44 | 1.33 |
| 12 | bA | 832 | CLA | O2A-CGA | 4.43 | 1.46 | 1.33 |
| 12 | bB | 933 | CLA | CHC-C1C | 4.43 | 1.46 | 1.35 |
| 12 | bB | 913 | CLA | O2D-CGD | 4.43 | 1.44 | 1.33 |
| 11 | cA | 801 | CL0 | O2D-CGD | 4.43 | 1.44 | 1.33 |
| 12 | aA | 842 | CLA | C1D-ND | 4.43 | 1.43 | 1.37 |
| 12 | aA | 832 | CLA | O2A-CGA | 4.43 | 1.46 | 1.33 |
| 12 | cA | 832 | CLA | O2A-CGA | 4.43 | 1.46 | 1.33 |
| 12 | aA | 802 | CLA | O2D-CGD | 4.42 | 1.44 | 1.33 |
| 12 | aA | 816 | CLA | O2A-CGA | 4.42 | 1.45 | 1.30 |
| 12 | aB | 933 | CLA | CHC-C1C | 4.42 | 1.46 | 1.35 |
| 12 | aB | 933 | CLA | O2A-CGA | 4.42 | 1.45 | 1.30 |
| 12 | cA | 839 | CLA | O2D-CGD | 4.42 | 1.44 | 1.33 |
| 12 | aA | 825 | CLA | C1D-ND | 4.42 | 1.43 | 1.37 |
| 12 | cB | 928 | CLA | C1B-NB | -4.42 | 1.31 | 1.35 |
| 12 | bA | 805 | CLA | O2A-CGA | 4.42 | 1.46 | 1.33 |
| 12 | bB | 909 | CLA | CHC-C1C | 4.41 | 1.46 | 1.35 |
| 12 | bA | 839 | CLA | O2D-CGD | 4.41 | 1.44 | 1.33 |
| 12 | aB | 922 | CLA | O2A-CGA | 4.41 | 1.45 | 1.30 |
| 12 | bL | 203 | CLA | O2A-CGA | 4.41 | 1.45 | 1.30 |
| 12 | aB | 909 | CLA | CHC-C1C | 4.41 | 1.46 | 1.35 |
| 12 | aL | 203 | CLA | O2A-CGA | 4.41 | 1.45 | 1.30 |
| 12 | aA | 840 | CLA | C1D-ND | 4.41 | 1.43 | 1.37 |
| 12 | cB | 909 | CLA | CHC-C1C | 4.41 | 1.46 | 1.35 |
| 12 | cA | 823 | CLA | C1D-ND | 4.41 | 1.43 | 1.37 |
| 12 | cB | 929 | CLA | C1D-ND | 4.41 | 1.43 | 1.37 |
| 12 | bA | 836 | CLA | CHD-C1D | 4.41 | 1.46 | 1.38 |
| 12 | bA | 829 | CLA | O2D-CGD | 4.40 | 1.43 | 1.33 |
| 12 | aA | 823 | CLA | C1D-ND | 4.40 | 1.43 | 1.37 |
| 12 | cA | 816 | CLA | C1D-ND | 4.40 | 1.43 | 1.37 |
| 12 | cA | 816 | CLA | O2A-CGA | 4.40 | 1.45 | 1.30 |
| 12 | aB | 913 | CLA | O2D-CGD | 4.40 | 1.43 | 1.33 |
| 12 | bB | 928 | CLA | C1B-NB | -4.40 | 1.31 | 1.35 |
| 12 | bA | 835 | CLA | O2A-CGA | 4.40 | 1.45 | 1.30 |
| 12 | cL | 203 | CLA | O2A-CGA | 4.40 | 1.45 | 1.30 |
| 12 | aA | 839 | CLA | CHC-C1C | 4.40 | 1.46 | 1.35 |
| 12 | bA | 816 | CLA | O2A-CGA | 4.40 | 1.45 | 1.30 |
| 12 | aA | 816 | CLA | C1D-ND | 4.40 | 1.43 | 1.37 |
| 12 | bB | 932 | CLA | O2A-CGA | 4.39 | 1.45 | 1.30 |
| 12 | bA | 802 | CLA | O2D-CGD | 4.39 | 1.43 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | aB | 932 | CLA | O2A-CGA | 4.39 | 1.45 | 1.30 |
| 12 | bA | 823 | CLA | C1D-ND | 4.39 | 1.43 | 1.37 |
| 12 | bA | 839 | CLA | CHC-C1C | 4.39 | 1.46 | 1.35 |
| 12 | aB | 925 | CLA | C1D-ND | 4.39 | 1.43 | 1.37 |
| 12 | cA | 835 | CLA | O2A-CGA | 4.39 | 1.45 | 1.30 |
| 12 | aA | 835 | CLA | O2A-CGA | 4.39 | 1.45 | 1.30 |
| 12 | cB | 932 | CLA | O2A-CGA | 4.38 | 1.45 | 1.30 |
| 12 | cA | 839 | CLA | CHC-C1C | 4.38 | 1.46 | 1.35 |
| 12 | bA | 825 | CLA | C1D-ND | 4.38 | 1.43 | 1.37 |
| 12 | cA | 840 | CLA | C1D-ND | 4.37 | 1.43 | 1.37 |
| 12 | cA | 836 | CLA | CHD-C1D | 4.37 | 1.46 | 1.38 |
| 12 | aA | 839 | CLA | O2A-CGA | 4.37 | 1.45 | 1.30 |
| 12 | bB | 929 | CLA | C1D-ND | 4.37 | 1.43 | 1.37 |
| 12 | bA | 833 | CLA | O2D-CGD | 4.37 | 1.43 | 1.33 |
| 12 | bB | 907 | CLA | CHC-C1C | 4.36 | 1.46 | 1.35 |
| 12 | cA | 833 | CLA | O2D-CGD | 4.36 | 1.43 | 1.33 |
| 12 | cA | 838 | CLA | C1D-ND | 4.36 | 1.43 | 1.37 |
| 12 | cA | 842 | CLA | C1D-ND | 4.36 | 1.43 | 1.37 |
| 12 | cB | 907 | CLA | CHC-C1C | 4.36 | 1.46 | 1.35 |
| 12 | aB | 929 | CLA | C1D-ND | 4.36 | 1.43 | 1.37 |
| 12 | bB | 915 | CLA | O2A-CGA | 4.36 | 1.46 | 1.33 |
| 12 | aA | 824 | CLA | C1D-ND | 4.35 | 1.43 | 1.37 |
| 12 | bA | 842 | CLA | C1D-ND | 4.35 | 1.43 | 1.37 |
| 12 | aA | 810 | CLA | C1D-ND | 4.35 | 1.43 | 1.37 |
| 12 | aA | 833 | CLA | O2D-CGD | 4.35 | 1.43 | 1.33 |
| 12 | cB | 938 | CLA | O2A-CGA | 4.35 | 1.46 | 1.33 |
| 12 | bA | 816 | CLA | C1D-ND | 4.35 | 1.43 | 1.37 |
| 12 | cA | 839 | CLA | O2A-CGA | 4.35 | 1.45 | 1.30 |
| 12 | bA | 839 | CLA | O2A-CGA | 4.35 | 1.45 | 1.30 |
| 12 | cA | 822 | CLA | C1D-ND | 4.35 | 1.43 | 1.37 |
| 12 | aB | 907 | CLA | CHC-C1C | 4.35 | 1.46 | 1.35 |
| 12 | aB | 938 | CLA | O2A-CGA | 4.35 | 1.46 | 1.33 |
| 12 | cB | 915 | CLA | O2A-CGA | 4.34 | 1.46 | 1.33 |
| 12 | aA | 822 | CLA | C1D-ND | 4.34 | 1.43 | 1.37 |
| 12 | cL | 202 | CLA | C1D-ND | 4.34 | 1.43 | 1.37 |
| 12 | cA | 809 | CLA | C1D-ND | 4.34 | 1.43 | 1.37 |
| 12 | aA | 838 | CLA | C1D-ND | 4.34 | 1.43 | 1.37 |
| 12 | cA | 824 | CLA | C1D-ND | 4.34 | 1.43 | 1.37 |
| 12 | aB | 915 | CLA | O2A-CGA | 4.34 | 1.46 | 1.33 |
| 12 | bB | 938 | CLA | O2A-CGA | 4.34 | 1.46 | 1.33 |
| 12 | aF | 202 | CLA | C1D-ND | 4.33 | 1.43 | 1.37 |
| 12 | cB | 919 | CLA | C1D-ND | 4.33 | 1.43 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | aL | 202 | CLA | C1D-ND | 4.33 | 1.43 | 1.37 |
| 12 | cA | 824 | CLA | O2A-CGA | 4.33 | 1.46 | 1.33 |
| 12 | bB | 932 | CLA | C1D-ND | 4.33 | 1.43 | 1.37 |
| 12 | aB | 932 | CLA | C1D-ND | 4.33 | 1.43 | 1.37 |
| 12 | cA | 815 | CLA | CHD-C1D | 4.33 | 1.46 | 1.38 |
| 12 | bA | 824 | CLA | O2A-CGA | 4.33 | 1.46 | 1.33 |
| 12 | bF | 202 | CLA | C1D-ND | 4.33 | 1.43 | 1.37 |
| 12 | cB | 907 | CLA | C1D-ND | 4.33 | 1.43 | 1.37 |
| 12 | cA | 810 | CLA | C1D-ND | 4.32 | 1.43 | 1.37 |
| 12 | bA | 802 | CLA | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 12 | aA | 802 | CLA | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 12 | bA | 824 | CLA | C1D-ND | 4.32 | 1.43 | 1.37 |
| 12 | aA | 842 | CLA | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 12 | aA | 824 | CLA | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 12 | aB | 930 | CLA | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 12 | aA | 836 | CLA | CHD-C1D | 4.32 | 1.46 | 1.38 |
| 12 | cB | 930 | CLA | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 12 | bB | 930 | CLA | O2A-CGA | 4.32 | 1.46 | 1.33 |
| 12 | aB | 919 | CLA | C1D-ND | 4.32 | 1.43 | 1.37 |
| 12 | bB | 919 | CLA | C1D-ND | 4.32 | 1.43 | 1.37 |
| 12 | cA | 820 | CLA | C1D-ND | 4.31 | 1.43 | 1.37 |
| 12 | bA | 809 | CLA | C1D-ND | 4.31 | 1.43 | 1.37 |
| 12 | cB | 932 | CLA | C1D-ND | 4.31 | 1.43 | 1.37 |
| 12 | cA | 842 | CLA | O2A-CGA | 4.31 | 1.45 | 1.33 |
| 12 | cF | 202 | CLA | C1D-ND | 4.31 | 1.43 | 1.37 |
| 12 | cA | 802 | CLA | O2A-CGA | 4.31 | 1.45 | 1.33 |
| 12 | bB | 921 | CLA | O2A-CGA | 4.30 | 1.45 | 1.33 |
| 12 | bA | 842 | CLA | O2A-CGA | 4.30 | 1.45 | 1.33 |
| 12 | bA | 822 | CLA | C1D-ND | 4.30 | 1.43 | 1.37 |
| 12 | bA | 810 | CLA | C1D-ND | 4.30 | 1.43 | 1.37 |
| 12 | bA | 832 | CLA | C1D-ND | 4.29 | 1.43 | 1.37 |
| 12 | bL | 202 | CLA | C1D-ND | 4.29 | 1.43 | 1.37 |
| 12 | cA | 813 | CLA | C1D-ND | 4.29 | 1.43 | 1.37 |
| 12 | bA | 815 | CLA | CHD-C1D | 4.29 | 1.46 | 1.38 |
| 12 | bB | 935 | CLA | C1D-ND | 4.29 | 1.43 | 1.37 |
| 12 | aA | 832 | CLA | C1D-ND | 4.29 | 1.43 | 1.37 |
| 12 | aA | 815 | CLA | CHD-C1D | 4.29 | 1.46 | 1.38 |
| 12 | cA | 832 | CLA | C1D-ND | 4.29 | 1.43 | 1.37 |
| 12 | cB | 927 | CLA | O2A-CGA | 4.29 | 1.45 | 1.33 |
| 12 | cB | 921 | CLA | O2A-CGA | 4.27 | 1.45 | 1.33 |
| 12 | bB | 927 | CLA | O2A-CGA | 4.27 | 1.45 | 1.33 |
| 12 | bB | 907 | CLA | C1D-ND | 4.27 | 1.43 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | aB | 927 | CLA | O2A-CGA | 4.27 | 1.45 | 1.33 |
| 12 | cB | 926 | CLA | O2A-CGA | 4.27 | 1.45 | 1.33 |
| 12 | aA | 809 | CLA | C1D-ND | 4.27 | 1.43 | 1.37 |
| 12 | cB | 935 | CLA | C1D-ND | 4.27 | 1.43 | 1.37 |
| 12 | bA | 838 | CLA | C1D-ND | 4.27 | 1.43 | 1.37 |
| 12 | aB | 906 | CLA | O2A-CGA | 4.27 | 1.45 | 1.33 |
| 12 | bA | 813 | CLA | C1D-ND | 4.26 | 1.43 | 1.37 |
| 12 | aB | 921 | CLA | O2A-CGA | 4.26 | 1.45 | 1.33 |
| 12 | aB | 912 | CLA | O2D-CGD | 4.26 | 1.43 | 1.33 |
| 12 | cB | 906 | CLA | O2A-CGA | 4.26 | 1.45 | 1.33 |
| 12 | bA | 820 | CLA | C1D-ND | 4.26 | 1.43 | 1.37 |
| 12 | cB | 912 | CLA | O2D-CGD | 4.26 | 1.43 | 1.33 |
| 12 | aB | 926 | CLA | O2A-CGA | 4.26 | 1.45 | 1.33 |
| 12 | bB | 926 | CLA | O2A-CGA | 4.25 | 1.45 | 1.33 |
| 12 | cA | 809 | CLA | O2A-CGA | 4.25 | 1.45 | 1.30 |
| 12 | cA | 841 | CLA | O2A-CGA | 4.25 | 1.45 | 1.33 |
| 12 | cL | 202 | CLA | CHD-C1D | 4.25 | 1.46 | 1.38 |
| 12 | aA | 820 | CLA | C1D-ND | 4.25 | 1.43 | 1.37 |
| 12 | aA | 808 | CLA | CHD-C1D | 4.25 | 1.46 | 1.38 |
| 12 | aA | 813 | CLA | C1D-ND | 4.25 | 1.43 | 1.37 |
| 12 | bA | 809 | CLA | O2A-CGA | 4.25 | 1.45 | 1.30 |
| 12 | bB | 903 | CLA | O2A-CGA | 4.24 | 1.45 | 1.33 |
| 12 | cB | 939 | CLA | CHC-C1C | 4.24 | 1.45 | 1.35 |
| 12 | aB | 939 | CLA | CHC-C1C | 4.24 | 1.45 | 1.35 |
| 12 | bA | 841 | CLA | O2A-CGA | 4.24 | 1.45 | 1.33 |
| 12 | cB | 903 | CLA | O2A-CGA | 4.24 | 1.45 | 1.33 |
| 12 | bB | 939 | CLA | CHC-C1C | 4.24 | 1.45 | 1.35 |
| 12 | aB | 935 | CLA | C1D-ND | 4.24 | 1.43 | 1.37 |
| 12 | bB | 912 | CLA | O2D-CGD | 4.24 | 1.43 | 1.33 |
| 12 | cA | 808 | CLA | CHD-C1D | 4.23 | 1.46 | 1.38 |
| 12 | bB | 908 | CLA | O2A-CGA | 4.23 | 1.45 | 1.33 |
| 12 | aB | 908 | CLA | O2A-CGA | 4.23 | 1.45 | 1.33 |
| 12 | bB | 906 | CLA | O2A-CGA | 4.23 | 1.45 | 1.33 |
| 12 | aA | 809 | CLA | O2A-CGA | 4.23 | 1.45 | 1.30 |
| 12 | bA | 828 | CLA | O2A-CGA | 4.23 | 1.45 | 1.33 |
| 12 | cA | 818 | CLA | C1D-ND | 4.23 | 1.43 | 1.37 |
| 12 | aA | 841 | CLA | O2A-CGA | 4.22 | 1.45 | 1.33 |
| 12 | bA | 830 | CLA | O2D-CGD | 4.22 | 1.43 | 1.33 |
| 12 | aA | 830 | CLA | O2D-CGD | 4.22 | 1.43 | 1.33 |
| 12 | cB | 913 | CLA | O2A-CGA | 4.22 | 1.45 | 1.33 |
| 12 | aA | 828 | CLA | O2A-CGA | 4.22 | 1.45 | 1.33 |
| 12 | aB | 913 | CLA | O2A-CGA | 4.22 | 1.45 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 830 | CLA | O2D-CGD | 4.22 | 1.43 | 1.33 |
| 12 | cB | 908 | CLA | O2A-CGA | 4.22 | 1.45 | 1.33 |
| 12 | aA | 823 | CLA | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 12 | bB | 913 | CLA | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 12 | cA | 841 | CLA | C1D-ND | 4.21 | 1.43 | 1.37 |
| 12 | bA | 808 | CLA | CHD-C1D | 4.21 | 1.46 | 1.38 |
| 12 | bB | 919 | CLA | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 12 | aB | 919 | CLA | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 12 | bB | 916 | CLA | C1D-ND | 4.21 | 1.43 | 1.37 |
| 12 | bL | 202 | CLA | CHD-C1D | 4.21 | 1.46 | 1.38 |
| 12 | cB | 919 | CLA | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 12 | cA | 828 | CLA | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 12 | cA | 831 | CLA | O2A-CGA | 4.21 | 1.45 | 1.33 |
| 12 | aB | 918 | CLA | C1B-NB | -4.21 | 1.31 | 1.35 |
| 12 | bB | 921 | CLA | CHD-C1D | 4.21 | 1.46 | 1.38 |
| 12 | bA | 841 | CLA | C1D-ND | 4.21 | 1.43 | 1.37 |
| 12 | cA | 806 | CLA | O2A-CGA | 4.20 | 1.45 | 1.33 |
| 12 | aB | 901 | CLA | O2D-CGD | 4.20 | 1.43 | 1.33 |
| 12 | aB | 907 | CLA | C1D-ND | 4.20 | 1.43 | 1.37 |
| 12 | aA | 818 | CLA | C1D-ND | 4.20 | 1.42 | 1.37 |
| 12 | aB | 905 | CLA | C1D-ND | 4.20 | 1.42 | 1.37 |
| 12 | aB | 903 | CLA | O2A-CGA | 4.20 | 1.45 | 1.33 |
| 12 | cA | 812 | CLA | C1D-ND | 4.20 | 1.42 | 1.37 |
| 12 | aA | 831 | CLA | O2A-CGA | 4.20 | 1.45 | 1.33 |
| 12 | cA | 811 | CLA | CHD-C1D | 4.20 | 1.46 | 1.38 |
| 12 | aA | 806 | CLA | O2A-CGA | 4.20 | 1.45 | 1.33 |
| 12 | cA | 823 | CLA | O2A-CGA | 4.20 | 1.45 | 1.33 |
| 12 | cB | 931 | CLA | O2D-CGD | 4.20 | 1.43 | 1.33 |
| 12 | cA | 821 | CLA | O2A-CGA | 4.19 | 1.45 | 1.33 |
| 12 | aA | 834 | CLA | O2A-CGA | 4.19 | 1.45 | 1.33 |
| 12 | bB | 901 | CLA | O2D-CGD | 4.19 | 1.43 | 1.33 |
| 12 | bA | 823 | CLA | O2A-CGA | 4.19 | 1.45 | 1.33 |
| 12 | bA | 812 | CLA | C1D-ND | 4.19 | 1.42 | 1.37 |
| 12 | bA | 831 | CLA | O2A-CGA | 4.19 | 1.45 | 1.33 |
| 12 | bB | 911 | CLA | C1D-ND | 4.19 | 1.42 | 1.37 |
| 12 | bA | 834 | CLA | O2A-CGA | 4.19 | 1.45 | 1.33 |
| 12 | cB | 921 | CLA | CHD-C1D | 4.19 | 1.46 | 1.38 |
| 12 | aL | 202 | CLA | CHD-C1D | 4.19 | 1.46 | 1.38 |
| 12 | bA | 821 | CLA | O2A-CGA | 4.19 | 1.45 | 1.33 |
| 12 | aA | 821 | CLA | O2A-CGA | 4.18 | 1.45 | 1.33 |
| 12 | cB | 901 | CLA | O2D-CGD | 4.18 | 1.43 | 1.33 |
| 12 | aB | 921 | CLA | CHD-C1D | 4.18 | 1.46 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | aB | 911 | CLA | C1D-ND | 4.18 | 1.42 | 1.37 |
| 12 | aB | 916 | CLA | C1D-ND | 4.18 | 1.42 | 1.37 |
| 12 | cA | 834 | CLA | O2A-CGA | 4.18 | 1.45 | 1.33 |
| 12 | aA | 803 | CLA | O2A-CGA | 4.18 | 1.45 | 1.33 |
| 12 | cB | 911 | CLA | C1D-ND | 4.18 | 1.42 | 1.37 |
| 12 | bA | 806 | CLA | O2A-CGA | 4.18 | 1.45 | 1.33 |
| 12 | cA | 803 | CLA | O2A-CGA | 4.18 | 1.45 | 1.33 |
| 12 | aB | 931 | CLA | O2D-CGD | 4.18 | 1.43 | 1.33 |
| 12 | bA | 803 | CLA | O2A-CGA | 4.17 | 1.45 | 1.33 |
| 12 | bB | 931 | CLA | O2D-CGD | 4.17 | 1.43 | 1.33 |
| 12 | cB | 916 | CLA | C1D-ND | 4.16 | 1.42 | 1.37 |
| 12 | aA | 841 | CLA | C1D-ND | 4.16 | 1.42 | 1.37 |
| 12 | bA | 818 | CLA | C1D-ND | 4.16 | 1.42 | 1.37 |
| 12 | cB | 937 | CLA | O2A-CGA | 4.16 | 1.45 | 1.33 |
| 12 | cA | 826 | CLA | O2A-CGA | 4.15 | 1.45 | 1.33 |
| 12 | aB | 902 | CLA | O2A-CGA | 4.15 | 1.45 | 1.33 |
| 12 | aB | 904 | CLA | C1D-ND | 4.15 | 1.42 | 1.37 |
| 12 | bB | 905 | CLA | C1D-ND | 4.15 | 1.42 | 1.37 |
| 12 | aA | 826 | CLA | O2A-CGA | 4.14 | 1.45 | 1.33 |
| 12 | aB | 910 | CLA | CHD-C1D | 4.14 | 1.46 | 1.38 |
| 12 | cB | 910 | CLA | CHD-C1D | 4.14 | 1.46 | 1.38 |
| 12 | bB | 910 | CLA | C1D-ND | 4.14 | 1.42 | 1.37 |
| 12 | cB | 902 | CLA | O2A-CGA | 4.14 | 1.45 | 1.33 |
| 12 | bA | 811 | CLA | CHD-C1D | 4.14 | 1.46 | 1.38 |
| 12 | cA | 834 | CLA | CHD-C1D | 4.14 | 1.46 | 1.38 |
| 12 | bB | 937 | CLA | O2A-CGA | 4.13 | 1.45 | 1.33 |
| 12 | aB | 937 | CLA | O2A-CGA | 4.13 | 1.45 | 1.33 |
| 12 | cL | 202 | CLA | O2A-CGA | 4.13 | 1.45 | 1.33 |
| 12 | aB | 910 | CLA | C1D-ND | 4.13 | 1.42 | 1.37 |
| 12 | aB | 911 | CLA | CHD-C1D | 4.13 | 1.46 | 1.38 |
| 12 | cB | 908 | CLA | CHC-C1C | 4.13 | 1.45 | 1.35 |
| 12 | bA | 826 | CLA | O2A-CGA | 4.13 | 1.45 | 1.33 |
| 12 | aA | 811 | CLA | CHD-C1D | 4.13 | 1.46 | 1.38 |
| 12 | bB | 902 | CLA | O2A-CGA | 4.12 | 1.45 | 1.33 |
| 12 | cB | 904 | CLA | C1D-ND | 4.12 | 1.42 | 1.37 |
| 12 | aA | 812 | CLA | C1D-ND | 4.12 | 1.42 | 1.37 |
| 12 | aA | 840 | CLA | CHD-C1D | 4.12 | 1.46 | 1.38 |
| 12 | bB | 910 | CLA | CHD-C1D | 4.12 | 1.46 | 1.38 |
| 12 | cB | 905 | CLA | C1D-ND | 4.11 | 1.42 | 1.37 |
| 12 | cB | 931 | CLA | O2A-CGA | 4.11 | 1.45 | 1.33 |
| 12 | cA | 818 | CLA | O2A-CGA | 4.11 | 1.45 | 1.33 |
| 12 | aB | 903 | CLA | C1D-ND | 4.11 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 908 | CLA | CHC-C1C | 4.11 | 1.45 | 1.35 |
| 12 | bA | 840 | CLA | CHD-C1D | 4.11 | 1.46 | 1.38 |
| 12 | cA | 840 | CLA | CHD-C1D | 4.11 | 1.46 | 1.38 |
| 12 | bL | 202 | CLA | O2A-CGA | 4.11 | 1.45 | 1.33 |
| 12 | aA | 818 | CLA | O2A-CGA | 4.10 | 1.45 | 1.33 |
| 12 | aL | 202 | CLA | O2A-CGA | 4.10 | 1.45 | 1.33 |
| 12 | aB | 909 | CLA | C1D-ND | 4.09 | 1.42 | 1.37 |
| 12 | aB | 931 | CLA | O2A-CGA | 4.09 | 1.45 | 1.33 |
| 12 | aB | 908 | CLA | CHC-C1C | 4.09 | 1.45 | 1.35 |
| 12 | aA | 804 | CLA | C1D-ND | 4.09 | 1.42 | 1.37 |
| 12 | cA | 839 | CLA | C1D-ND | 4.09 | 1.42 | 1.37 |
| 11 | cA | 801 | CL0 | O2A-CGA | 4.09 | 1.45 | 1.33 |
| 12 | bB | 911 | CLA | CHD-C1D | 4.09 | 1.46 | 1.38 |
| 12 | bA | 839 | CLA | C1D-ND | 4.09 | 1.42 | 1.37 |
| 12 | bB | 931 | CLA | O2A-CGA | 4.09 | 1.45 | 1.33 |
| 12 | aA | 837 | CLA | C1B-NB | -4.09 | 1.31 | 1.35 |
| 12 | aF | 202 | CLA | CHD-C1D | 4.08 | 1.46 | 1.38 |
| 12 | aA | 839 | CLA | C1D-ND | 4.08 | 1.42 | 1.37 |
| 12 | bA | 818 | CLA | O2A-CGA | 4.08 | 1.45 | 1.33 |
| 12 | cB | 903 | CLA | C1D-ND | 4.07 | 1.42 | 1.37 |
| 12 | bA | 837 | CLA | O2A-CGA | 4.07 | 1.45 | 1.33 |
| 12 | cB | 911 | CLA | CHD-C1D | 4.07 | 1.46 | 1.38 |
| 12 | bA | 814 | CLA | CHD-C1D | 4.07 | 1.46 | 1.38 |
| 12 | cA | 814 | CLA | CHD-C1D | 4.07 | 1.46 | 1.38 |
| 12 | aA | 813 | CLA | CHD-C1D | 4.07 | 1.46 | 1.38 |
| 12 | bF | 202 | CLA | CHD-C1D | 4.07 | 1.46 | 1.38 |
| 12 | cF | 202 | CLA | CHD-C1D | 4.07 | 1.46 | 1.38 |
| 12 | bB | 935 | CLA | O2D-CGD | 4.07 | 1.43 | 1.33 |
| 12 | bA | 834 | CLA | CHD-C1D | 4.06 | 1.46 | 1.38 |
| 12 | cB | 938 | CLA | CHD-C1D | 4.06 | 1.46 | 1.38 |
| 12 | cB | 925 | CLA | O2A-CGA | 4.06 | 1.45 | 1.33 |
| 12 | cA | 804 | CLA | C1D-ND | 4.06 | 1.42 | 1.37 |
| 11 | aA | 801 | CL0 | O2A-CGA | 4.06 | 1.45 | 1.33 |
| 12 | aB | 938 | CLA | CHD-C1D | 4.06 | 1.46 | 1.38 |
| 12 | bA | 808 | CLA | O2A-CGA | 4.06 | 1.45 | 1.33 |
| 12 | cA | 813 | CLA | CHD-C1D | 4.06 | 1.46 | 1.38 |
| 12 | aB | 906 | CLA | C1D-ND | 4.06 | 1.42 | 1.37 |
| 12 | bB | 903 | CLA | C1D-ND | 4.06 | 1.42 | 1.37 |
| 12 | bB | 938 | CLA | CHD-C1D | 4.06 | 1.46 | 1.38 |
| 12 | cB | 909 | CLA | C1D-ND | 4.06 | 1.42 | 1.37 |
| 12 | aA | 808 | CLA | O2A-CGA | 4.06 | 1.45 | 1.33 |
| 12 | bB | 925 | CLA | O2A-CGA | 4.06 | 1.45 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 834 | CLA | CHD-C1D | 4.06 | 1.46 | 1.38 |
| 12 | bA | 807 | CLA | O2A-CGA | 4.06 | 1.45 | 1.33 |
| 12 | cB | 932 | CLA | CHD-C1D | 4.06 | 1.46 | 1.38 |
| 12 | cB | 935 | CLA | O2D-CGD | 4.05 | 1.43 | 1.33 |
| 11 | bA | 801 | CL0 | O2A-CGA | 4.05 | 1.45 | 1.33 |
| 12 | bA | 831 | CLA | C1D-ND | 4.05 | 1.42 | 1.37 |
| 12 | aA | 838 | CLA | O2A-CGA | 4.05 | 1.45 | 1.33 |
| 12 | aB | 935 | CLA | O2D-CGD | 4.05 | 1.43 | 1.33 |
| 12 | cA | 838 | CLA | O2A-CGA | 4.05 | 1.45 | 1.33 |
| 12 | aB | 938 | CLA | C1D-ND | 4.05 | 1.42 | 1.37 |
| 12 | aA | 837 | CLA | O2A-CGA | 4.05 | 1.45 | 1.33 |
| 12 | bA | 813 | CLA | CHD-C1D | 4.05 | 1.46 | 1.38 |
| 12 | aA | 814 | CLA | C1D-ND | 4.05 | 1.42 | 1.37 |
| 12 | cB | 910 | CLA | C1D-ND | 4.05 | 1.42 | 1.37 |
| 12 | bB | 917 | CLA | C1D-ND | 4.05 | 1.42 | 1.37 |
| 12 | aA | 814 | CLA | CHD-C1D | 4.04 | 1.46 | 1.38 |
| 12 | bB | 918 | CLA | C1B-NB | -4.04 | 1.31 | 1.35 |
| 12 | cA | 814 | CLA | C1D-ND | 4.04 | 1.42 | 1.37 |
| 13 | bB | 940 | 1L3 | C11-C12 | 4.04 | 1.55 | 1.48 |
| 12 | cA | 831 | CLA | C1D-ND | 4.04 | 1.42 | 1.37 |
| 12 | aB | 925 | CLA | O2A-CGA | 4.04 | 1.45 | 1.33 |
| 12 | bA | 838 | CLA | O2A-CGA | 4.04 | 1.45 | 1.33 |
| 12 | bA | 827 | CLA | O2A-CGA | 4.04 | 1.45 | 1.33 |
| 12 | bB | 932 | CLA | CHD-C1D | 4.04 | 1.46 | 1.38 |
| 12 | aB | 932 | CLA | CHD-C1D | 4.03 | 1.46 | 1.38 |
| 12 | bA | 814 | CLA | C1D-ND | 4.03 | 1.42 | 1.37 |
| 12 | bB | 904 | CLA | C1D-ND | 4.03 | 1.42 | 1.37 |
| 12 | cB | 918 | CLA | C1B-NB | -4.03 | 1.31 | 1.35 |
| 12 | bA | 840 | CLA | O2A-CGA | 4.03 | 1.45 | 1.33 |
| 12 | cA | 827 | CLA | O2A-CGA | 4.03 | 1.45 | 1.33 |
| 12 | bB | 917 | CLA | O2A-CGA | 4.03 | 1.45 | 1.33 |
| 12 | cA | 808 | CLA | O2A-CGA | 4.03 | 1.45 | 1.33 |
| 12 | aA | 840 | CLA | O2A-CGA | 4.03 | 1.45 | 1.33 |
| 12 | aA | 837 | CLA | C1D-ND | 4.03 | 1.42 | 1.37 |
| 12 | bB | 915 | CLA | CHD-C1D | 4.03 | 1.46 | 1.38 |
| 12 | bA | 837 | CLA | C1B-NB | -4.03 | 1.31 | 1.35 |
| 12 | aA | 819 | CLA | C1D-ND | 4.03 | 1.42 | 1.37 |
| 12 | bA | 819 | CLA | C1D-ND | 4.02 | 1.42 | 1.37 |
| 12 | cA | 837 | CLA | C1D-ND | 4.02 | 1.42 | 1.37 |
| 12 | cA | 840 | CLA | O2A-CGA | 4.02 | 1.45 | 1.33 |
| 12 | aB | 908 | CLA | CHD-C1D | 4.02 | 1.46 | 1.38 |
| 12 | aA | 827 | CLA | O2A-CGA | 4.02 | 1.45 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bL | 204 | CLA | CHD-C1D | 4.02 | 1.46 | 1.38 |
| 12 | aA | 831 | CLA | C1D-ND | 4.02 | 1.42 | 1.37 |
| 12 | aB | 917 | CLA | O2A-CGA | 4.02 | 1.45 | 1.33 |
| 12 | cB | 915 | CLA | CHD-C1D | 4.02 | 1.46 | 1.38 |
| 12 | cB | 917 | CLA | O2A-CGA | 4.02 | 1.45 | 1.33 |
| 12 | cA | 833 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 12 | aB | 918 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 12 | cA | 837 | CLA | O2A-CGA | 4.01 | 1.45 | 1.33 |
| 12 | bB | 928 | CLA | O2D-CGD | 4.01 | 1.43 | 1.33 |
| 12 | bA | 804 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 12 | bB | 909 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 12 | aA | 843 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 12 | cB | 917 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 12 | aB | 917 | CLA | C1D-ND | 4.01 | 1.42 | 1.37 |
| 12 | cA | 807 | CLA | O2A-CGA | 4.00 | 1.45 | 1.33 |
| 13 | aB | 940 | 1L3 | C11-C12 | 4.00 | 1.55 | 1.48 |
| 12 | cL | 204 | CLA | CHD-C1D | 4.00 | 1.46 | 1.38 |
| 12 | cA | 832 | CLA | CHD-C1D | 4.00 | 1.46 | 1.38 |
| 12 | cB | 938 | CLA | C1D-ND | 4.00 | 1.42 | 1.37 |
| 12 | bB | 934 | CLA | CHD-C4C | 4.00 | 1.48 | 1.39 |
| 12 | aA | 829 | CLA | O2A-CGA | 4.00 | 1.45 | 1.33 |
| 12 | bB | 938 | CLA | C1D-ND | 4.00 | 1.42 | 1.37 |
| 12 | aB | 915 | CLA | CHD-C1D | 4.00 | 1.46 | 1.38 |
| 12 | aA | 807 | CLA | O2A-CGA | 3.99 | 1.45 | 1.33 |
| 12 | aA | 832 | CLA | CHD-C1D | 3.99 | 1.46 | 1.38 |
| 12 | cA | 805 | CLA | C1D-ND | 3.99 | 1.42 | 1.37 |
| 12 | cB | 912 | CLA | CHD-C1D | 3.99 | 1.46 | 1.38 |
| 12 | bA | 837 | CLA | O2D-CGD | 3.99 | 1.42 | 1.33 |
| 12 | aB | 928 | CLA | O2D-CGD | 3.99 | 1.42 | 1.33 |
| 12 | cA | 819 | CLA | C1D-ND | 3.99 | 1.42 | 1.37 |
| 12 | bA | 832 | CLA | CHD-C1D | 3.99 | 1.46 | 1.38 |
| 12 | bB | 908 | CLA | CHD-C1D | 3.99 | 1.46 | 1.38 |
| 12 | bA | 837 | CLA | C1D-ND | 3.99 | 1.42 | 1.37 |
| 13 | cB | 940 | 1L3 | C11-C12 | 3.99 | 1.55 | 1.48 |
| 12 | cB | 906 | CLA | C1D-ND | 3.98 | 1.42 | 1.37 |
| 12 | cA | 829 | CLA | O2A-CGA | 3.98 | 1.45 | 1.33 |
| 12 | aB | 934 | CLA | CHD-C4C | 3.98 | 1.48 | 1.39 |
| 12 | aA | 833 | CLA | C1D-ND | 3.98 | 1.42 | 1.37 |
| 12 | cB | 918 | CLA | C1D-ND | 3.98 | 1.42 | 1.37 |
| 12 | cB | 928 | CLA | O2D-CGD | 3.98 | 1.42 | 1.33 |
| 12 | aA | 843 | CLA | CHD-C1D | 3.98 | 1.46 | 1.38 |
| 12 | cA | 837 | CLA | O2D-CGD | 3.98 | 1.42 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 906 | CLA | C1D-ND | 3.98 | 1.42 | 1.37 |
| 12 | aL | 204 | CLA | CHD-C1D | 3.98 | 1.46 | 1.38 |
| 12 | bB | 937 | CLA | CHD-C1D | 3.98 | 1.46 | 1.38 |
| 12 | cA | 834 | CLA | C1D-ND | 3.98 | 1.42 | 1.37 |
| 12 | cB | 908 | CLA | CHD-C1D | 3.97 | 1.46 | 1.38 |
| 12 | cA | 833 | CLA | O2A-CGA | 3.97 | 1.45 | 1.33 |
| 12 | aB | 935 | CLA | O2A-CGA | 3.97 | 1.44 | 1.33 |
| 12 | cB | 935 | CLA | O2A-CGA | 3.97 | 1.44 | 1.33 |
| 12 | aB | 905 | CLA | O2A-CGA | 3.97 | 1.44 | 1.33 |
| 12 | cB | 919 | CLA | CHD-C1D | 3.97 | 1.46 | 1.38 |
| 12 | bA | 843 | CLA | C1D-ND | 3.97 | 1.42 | 1.37 |
| 12 | cB | 930 | CLA | CHD-C1D | 3.97 | 1.46 | 1.38 |
| 12 | cB | 905 | CLA | O2A-CGA | 3.97 | 1.44 | 1.33 |
| 12 | aA | 825 | CLA | C3B-C2B | 3.97 | 1.45 | 1.40 |
| 12 | aB | 918 | CLA | O2A-CGA | 3.97 | 1.45 | 1.33 |
| 12 | aA | 825 | CLA | O2A-CGA | 3.97 | 1.44 | 1.33 |
| 12 | bB | 935 | CLA | O2A-CGA | 3.96 | 1.44 | 1.33 |
| 12 | bB | 939 | CLA | C1D-ND | 3.96 | 1.42 | 1.37 |
| 12 | cB | 918 | CLA | O2A-CGA | 3.96 | 1.45 | 1.33 |
| 12 | aA | 834 | CLA | C1D-ND | 3.96 | 1.42 | 1.37 |
| 12 | aB | 907 | CLA | O2A-CGA | 3.96 | 1.44 | 1.33 |
| 12 | bA | 825 | CLA | O2A-CGA | 3.96 | 1.44 | 1.33 |
| 12 | aA | 837 | CLA | O2D-CGD | 3.96 | 1.42 | 1.33 |
| 12 | bA | 829 | CLA | O2A-CGA | 3.96 | 1.44 | 1.33 |
| 12 | bB | 905 | CLA | O2A-CGA | 3.96 | 1.44 | 1.33 |
| 12 | cB | 933 | CLA | C1D-ND | 3.96 | 1.42 | 1.37 |
| 12 | cA | 837 | CLA | C1B-NB | -3.96 | 1.31 | 1.35 |
| 12 | cB | 934 | CLA | CHD-C4C | 3.95 | 1.48 | 1.39 |
| 12 | aB | 912 | CLA | CHD-C1D | 3.95 | 1.46 | 1.38 |
| 12 | bB | 912 | CLA | CHD-C1D | 3.95 | 1.46 | 1.38 |
| 12 | bA | 833 | CLA | C1D-ND | 3.95 | 1.42 | 1.37 |
| 12 | aB | 901 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |
| 12 | cB | 907 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |
| 12 | aB | 936 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |
| 12 | cA | 825 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |
| 12 | aA | 833 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |
| 12 | cA | 843 | CLA | CHD-C1D | 3.95 | 1.46 | 1.38 |
| 12 | aA | 805 | CLA | C1D-ND | 3.95 | 1.42 | 1.37 |
| 12 | bB | 936 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |
| 12 | bB | 907 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |
| 12 | cB | 901 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |
| 12 | cA | 853 | CLA | O2A-CGA | 3.95 | 1.44 | 1.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cB | 939 | CLA | C1D-ND | 3.94 | 1.42 | 1.37 |
| 12 | aA | 823 | CLA | CHD-C1D | 3.94 | 1.46 | 1.38 |
| 12 | bA | 834 | CLA | C1D-ND | 3.94 | 1.42 | 1.37 |
| 12 | bB | 901 | CLA | O2A-CGA | 3.94 | 1.44 | 1.33 |
| 12 | aA | 821 | CLA | C1D-ND | 3.94 | 1.42 | 1.37 |
| 12 | cB | 909 | CLA | O2A-CGA | 3.94 | 1.44 | 1.33 |
| 12 | bA | 833 | CLA | O2A-CGA | 3.94 | 1.44 | 1.33 |
| 12 | bB | 918 | CLA | O2A-CGA | 3.94 | 1.45 | 1.33 |
| 12 | cA | 840 | CLA | CHD-C4C | 3.93 | 1.48 | 1.39 |
| 12 | bA | 823 | CLA | CHD-C1D | 3.93 | 1.46 | 1.38 |
| 12 | aA | 854 | CLA | O2A-CGA | 3.93 | 1.44 | 1.33 |
| 12 | cA | 825 | CLA | C3B-C2B | 3.93 | 1.45 | 1.40 |
| 12 | bB | 930 | CLA | CHD-C1D | 3.93 | 1.46 | 1.38 |
| 12 | bB | 949 | CLA | CHD-C1D | 3.93 | 1.46 | 1.38 |
| 12 | bA | 836 | CLA | CHD-C4C | 3.93 | 1.48 | 1.39 |
| 12 | cA | 824 | CLA | CHD-C1D | 3.93 | 1.46 | 1.38 |
| 12 | cA | 836 | CLA | CHD-C4C | 3.93 | 1.48 | 1.39 |
| 12 | bB | 909 | CLA | O2A-CGA | 3.93 | 1.44 | 1.33 |
| 12 | cB | 936 | CLA | O2A-CGA | 3.93 | 1.44 | 1.33 |
| 12 | bA | 853 | CLA | O2A-CGA | 3.92 | 1.44 | 1.33 |
| 12 | aA | 836 | CLA | CHD-C4C | 3.92 | 1.48 | 1.39 |
| 12 | cB | 932 | CLA | CHD-C4C | 3.92 | 1.48 | 1.39 |
| 12 | bB | 933 | CLA | C1D-ND | 3.92 | 1.42 | 1.37 |
| 12 | aA | 824 | CLA | CHD-C1D | 3.92 | 1.46 | 1.38 |
| 12 | aB | 930 | CLA | CHD-C1D | 3.92 | 1.46 | 1.38 |
| 12 | cA | 821 | CLA | C1D-ND | 3.92 | 1.42 | 1.37 |
| 12 | bA | 843 | CLA | CHD-C1D | 3.92 | 1.46 | 1.38 |
| 12 | bA | 824 | CLA | CHD-C1D | 3.92 | 1.46 | 1.38 |
| 12 | aA | 808 | CLA | CHD-C4C | 3.92 | 1.48 | 1.39 |
| 12 | cB | 924 | CLA | O2A-CGA | 3.92 | 1.45 | 1.33 |
| 12 | bB | 936 | CLA | CHD-C1D | 3.92 | 1.46 | 1.38 |
| 12 | cA | 843 | CLA | C1D-ND | 3.91 | 1.42 | 1.37 |
| 12 | bA | 840 | CLA | CHD-C4C | 3.91 | 1.48 | 1.39 |
| 12 | aB | 932 | CLA | CHD-C4C | 3.91 | 1.48 | 1.39 |
| 12 | aB | 937 | CLA | CHD-C1D | 3.91 | 1.46 | 1.38 |
| 12 | aB | 949 | CLA | CHD-C1D | 3.91 | 1.46 | 1.38 |
| 12 | cB | 949 | CLA | CHD-C1D | 3.91 | 1.46 | 1.38 |
| 12 | bA | 805 | CLA | C1D-ND | 3.91 | 1.42 | 1.37 |
| 12 | bA | 819 | CLA | O2A-CGA | 3.91 | 1.44 | 1.33 |
| 12 | bB | 919 | CLA | CHD-C1D | 3.91 | 1.46 | 1.38 |
| 12 | bB | 918 | CLA | CHD-C1D | 3.91 | 1.46 | 1.38 |
| 12 | bB | 913 | CLA | C1D-ND | 3.91 | 1.42 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | bB | 918 | CLA | C1D-ND | 3.91 | 1.42 | 1.37 |
| 12 | aB | 909 | CLA | O2A-CGA | 3.91 | 1.44 | 1.33 |
| 12 | bA | 808 | CLA | CHD-C4C | 3.90 | 1.48 | 1.39 |
| 12 | bB | 936 | CLA | CHD-C4C | 3.90 | 1.48 | 1.39 |
| 12 | cB | 936 | CLA | CHD-C4C | 3.90 | 1.48 | 1.39 |
| 12 | aB | 936 | CLA | CHD-C4C | 3.90 | 1.48 | 1.39 |
| 12 | bB | 932 | CLA | CHD-C4C | 3.90 | 1.48 | 1.39 |
| 12 | aA | 820 | CLA | CHD-C1D | 3.90 | 1.46 | 1.38 |
| 12 | bB | 924 | CLA | O2A-CGA | 3.90 | 1.45 | 1.33 |
| 12 | bB | 950 | CLA | C1D-ND | 3.90 | 1.42 | 1.37 |
| 12 | cB | 913 | CLA | C1D-ND | 3.90 | 1.42 | 1.37 |
| 12 | aB | 919 | CLA | CHD-C1D | 3.90 | 1.46 | 1.38 |
| 12 | aB | 924 | CLA | O2A-CGA | 3.90 | 1.45 | 1.33 |
| 12 | bA | 825 | CLA | C3B-C2B | 3.90 | 1.45 | 1.40 |
| 12 | bA | 820 | CLA | CHD-C1D | 3.90 | 1.46 | 1.38 |
| 12 | aA | 844 | CLA | C1D-ND | 3.90 | 1.42 | 1.37 |
| 12 | bA | 802 | CLA | CHD-C1D | 3.90 | 1.46 | 1.38 |
| 12 | cB | 918 | CLA | CHD-C1D | 3.90 | 1.46 | 1.38 |
| 12 | aA | 840 | CLA | CHD-C4C | 3.89 | 1.48 | 1.39 |
| 12 | aB | 950 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 12 | cB | 936 | CLA | CHD-C1D | 3.89 | 1.45 | 1.38 |
| 12 | aA | 802 | CLA | C1D-ND | 3.89 | 1.42 | 1.37 |
| 12 | cB | 937 | CLA | CHD-C1D | 3.89 | 1.45 | 1.38 |
| 12 | cA | 808 | CLA | CHD-C4C | 3.88 | 1.48 | 1.39 |
| 12 | cA | 802 | CLA | CHD-C1D | 3.88 | 1.45 | 1.38 |
| 12 | bA | 810 | CLA | CHD-C1D | 3.88 | 1.45 | 1.38 |
| 12 | aB | 913 | CLA | C1D-ND | 3.88 | 1.42 | 1.37 |
| 12 | aA | 806 | CLA | C1D-ND | 3.88 | 1.42 | 1.37 |
| 12 | aA | 815 | CLA | CHD-C4C | 3.88 | 1.48 | 1.39 |
| 12 | cA | 823 | CLA | CHD-C1D | 3.88 | 1.45 | 1.38 |
| 12 | aA | 819 | CLA | O2A-CGA | 3.87 | 1.44 | 1.33 |
| 12 | aB | 933 | CLA | C1D-ND | 3.87 | 1.42 | 1.37 |
| 12 | bA | 821 | CLA | C1D-ND | 3.87 | 1.42 | 1.37 |
| 12 | aA | 810 | CLA | CHD-C1D | 3.87 | 1.45 | 1.38 |
| 12 | aB | 927 | CLA | CHD-C1D | 3.87 | 1.45 | 1.38 |
| 12 | cA | 819 | CLA | O2A-CGA | 3.87 | 1.44 | 1.33 |
| 12 | cA | 815 | CLA | CHD-C4C | 3.87 | 1.48 | 1.39 |
| 12 | cA | 820 | CLA | CHD-C1D | 3.87 | 1.45 | 1.38 |
| 12 | bA | 815 | CLA | CHD-C4C | 3.87 | 1.48 | 1.39 |
| 12 | aB | 939 | CLA | C1D-ND | 3.86 | 1.42 | 1.37 |
| 12 | bA | 825 | CLA | CHD-C1D | 3.86 | 1.45 | 1.38 |
| 12 | aB | 933 | CLA | CHD-C1D | 3.86 | 1.45 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 12 | cA | 810 | CLA | CHD-C1D | 3.86 | 1.45 | 1.38 |
| 12 | bA | 805 | CLA | CHD-C1D | 3.85 | 1.45 | 1.38 |
| 12 | bB | 933 | CLA | CHD-C1D | 3.85 | 1.45 | 1.38 |
| 12 | cB | 927 | CLA | CHD-C1D | 3.85 | 1.45 | 1.38 |
| 12 | aA | 816 | CLA | CHD-C1D | 3.85 | 1.45 | 1.38 |
| 12 | cA | 843 | CLA | C3D-C2D | 3.85 | 1.49 | 1.39 |
| 12 | aA | 805 | CLA | CHD-C1D | 3.85 | 1.45 | 1.38 |
| 12 | aB | 936 | CLA | CHD-C1D | 3.85 | 1.45 | 1.38 |
| 12 | aA | 827 | CLA | C1D-ND | 3.85 | 1.42 | 1.37 |
| 12 | bA | 806 | CLA | C1D-ND | 3.85 | 1.42 | 1.37 |
| 12 | aB | 918 | CLA | CHD-C1D | 3.85 | 1.45 | 1.38 |
| 12 | aA | 825 | CLA | CHD-C1D | 3.85 | 1.45 | 1.38 |
| 12 | bB | 903 | CLA | CHD-C1D | 3.84 | 1.45 | 1.38 |
| 12 | bB | 920 | CLA | CHD-C4C | 3.84 | 1.48 | 1.39 |
| 12 | aB | 921 | CLA | CHD-C4C | 3.84 | 1.48 | 1.39 |
| 12 | cA | 833 | CLA | CHD-C1D | 3.84 | 1.45 | 1.38 |
| 12 | cA | 802 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 12 | cA | 816 | CLA | CHD-C1D | 3.84 | 1.45 | 1.38 |
| 12 | cA | 828 | CLA | CHD-C1D | 3.84 | 1.45 | 1.38 |
| 12 | cB | 907 | CLA | CHD-C1D | 3.84 | 1.45 | 1.38 |
| 12 | bA | 827 | CLA | C1D-ND | 3.84 | 1.42 | 1.37 |
| 12 | cA | 817 | CLA | CHD-C1D | 3.84 | 1.45 | 1.38 |
| 12 | aB | 903 | CLA | CHD-C1D | 3.83 | 1.45 | 1.38 |
| 12 | bB | 931 | CLA | C1D-ND | 3.83 | 1.42 | 1.37 |
| 12 | aA | 833 | CLA | CHD-C1D | 3.83 | 1.45 | 1.38 |
| 12 | aA | 802 | CLA | CHD-C1D | 3.83 | 1.45 | 1.38 |
| 12 | cA | 825 | CLA | CHD-C1D | 3.83 | 1.45 | 1.38 |
| 12 | bA | 833 | CLA | CHD-C1D | 3.83 | 1.45 | 1.38 |
| 12 | bB | 927 | CLA | CHD-C1D | 3.83 | 1.45 | 1.38 |
| 12 | aA | 831 | CLA | CHD-C1D | 3.83 | 1.45 | 1.38 |
| 12 | bB | 921 | CLA | CHD-C4C | 3.83 | 1.48 | 1.39 |
| 12 | bA | 816 | CLA | CHD-C1D | 3.83 | 1.45 | 1.38 |
| 12 | aA | 828 | CLA | CHD-C1D | 3.82 | 1.45 | 1.38 |
| 12 | bB | 907 | CLA | CHD-C1D | 3.82 | 1.45 | 1.38 |
| 12 | cA | 805 | CLA | CHD-C1D | 3.82 | 1.45 | 1.38 |
| 12 | cA | 821 | CLA | CHD-C1D | 3.82 | 1.45 | 1.38 |
| 12 | cA | 827 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 12 | cB | 920 | CLA | CHD-C4C | 3.82 | 1.48 | 1.39 |
| 12 | cB | 931 | CLA | C1D-ND | 3.82 | 1.42 | 1.37 |
| 12 | cB | 903 | CLA | CHD-C1D | 3.82 | 1.45 | 1.38 |
| 12 | cB | 921 | CLA | CHD-C4C | 3.82 | 1.48 | 1.39 |
| 12 | cB | 933 | CLA | CHD-C1D | 3.82 | 1.45 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 916 | CLA | O2A-CGA | 3.82 | 1.44 | 1.33 |
| 12 | aA | 843 | CLA | C3D-C2D | 3.82 | 1.49 | 1.39 |
| 12 | bA | 843 | CLA | C3D-C2D | 3.82 | 1.49 | 1.39 |
| 12 | bA | 831 | CLA | CHD-C1D | 3.81 | 1.45 | 1.38 |
| 12 | aB | 931 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 12 | bA | 830 | CLA | O2A-CGA | 3.81 | 1.44 | 1.33 |
| 12 | cB | 916 | CLA | O2A-CGA | 3.81 | 1.44 | 1.33 |
| 12 | bA | 828 | CLA | CHD-C1D | 3.81 | 1.45 | 1.38 |
| 12 | cA | 826 | CLA | CHD-C1D | 3.81 | 1.45 | 1.38 |
| 12 | cA | 802 | CLA | C1B-NB | -3.81 | 1.31 | 1.35 |
| 12 | cA | 806 | CLA | C1D-ND | 3.81 | 1.42 | 1.37 |
| 12 | cA | 831 | CLA | CHD-C1D | 3.81 | 1.45 | 1.38 |
| 12 | bB | 949 | CLA | OBD-CAD | 3.81 | 1.29 | 1.22 |
| 12 | aA | 826 | CLA | CHD-C1D | 3.81 | 1.45 | 1.38 |
| 12 | aA | 817 | CLA | CHD-C1D | 3.80 | 1.45 | 1.38 |
| 12 | cA | 835 | CLA | CHD-C1D | 3.80 | 1.45 | 1.38 |
| 12 | aA | 822 | CLA | CHD-C4C | 3.80 | 1.47 | 1.39 |
| 12 | cB | 924 | CLA | CHD-C1D | 3.80 | 1.45 | 1.38 |
| 12 | cA | 830 | CLA | O2A-CGA | 3.80 | 1.44 | 1.33 |
| 12 | bA | 835 | CLA | CHD-C1D | 3.80 | 1.45 | 1.38 |
| 12 | aB | 907 | CLA | CHD-C1D | 3.80 | 1.45 | 1.38 |
| 12 | bB | 916 | CLA | O2A-CGA | 3.80 | 1.44 | 1.33 |
| 12 | bA | 821 | CLA | CHD-C1D | 3.80 | 1.45 | 1.38 |
| 12 | bB | 910 | CLA | CHD-C4C | 3.80 | 1.47 | 1.39 |
| 12 | bA | 811 | CLA | CHD-C4C | 3.80 | 1.47 | 1.39 |
| 12 | bA | 830 | CLA | CHD-C1D | 3.79 | 1.45 | 1.38 |
| 12 | aB | 949 | CLA | OBD-CAD | 3.79 | 1.29 | 1.22 |
| 12 | bA | 826 | CLA | CHD-C1D | 3.79 | 1.45 | 1.38 |
| 12 | aB | 929 | CLA | CHD-C1D | 3.79 | 1.45 | 1.38 |
| 12 | cA | 829 | CLA | C1D-ND | 3.79 | 1.42 | 1.37 |
| 12 | aA | 821 | CLA | CHD-C1D | 3.79 | 1.45 | 1.38 |
| 12 | bB | 929 | CLA | CHD-C1D | 3.79 | 1.45 | 1.38 |
| 12 | bA | 806 | CLA | CHD-C4C | 3.79 | 1.47 | 1.39 |
| 12 | aB | 923 | CLA | O2A-CGA | 3.79 | 1.44 | 1.33 |
| 12 | aB | 920 | CLA | CHD-C4C | 3.79 | 1.47 | 1.39 |
| 12 | cB | 949 | CLA | OBD-CAD | 3.79 | 1.29 | 1.22 |
| 12 | aA | 830 | CLA | O2A-CGA | 3.79 | 1.44 | 1.33 |
| 12 | bA | 822 | CLA | CHD-C4C | 3.78 | 1.47 | 1.39 |
| 12 | aA | 819 | CLA | C1B-NB | -3.78 | 1.31 | 1.35 |
| 12 | cB | 916 | CLA | CHD-C4C | 3.78 | 1.47 | 1.39 |
| 12 | cA | 830 | CLA | CHD-C1D | 3.78 | 1.45 | 1.38 |
| 12 | aA | 832 | CLA | CHD-C4C | 3.78 | 1.47 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 819 | CLA | C1B-NB | -3.78 | 1.31 | 1.35 |
| 12 | bA | 832 | CLA | CHD-C4C | 3.78 | 1.47 | 1.39 |
| 12 | aA | 802 | CLA | C1B-NB | -3.78 | 1.31 | 1.35 |
| 12 | cA | 830 | CLA | C1B-NB | -3.77 | 1.31 | 1.35 |
| 12 | bA | 843 | CLA | O2A-CGA | 3.77 | 1.44 | 1.33 |
| 12 | bB | 908 | CLA | C3D-C2D | 3.77 | 1.49 | 1.39 |
| 12 | cB | 920 | CLA | C3D-C2D | 3.77 | 1.49 | 1.39 |
| 12 | cA | 843 | CLA | O2A-CGA | 3.77 | 1.44 | 1.33 |
| 12 | bA | 802 | CLA | C1D-ND | 3.77 | 1.42 | 1.37 |
| 12 | cA | 834 | CLA | CHD-C4C | 3.77 | 1.47 | 1.39 |
| 12 | bB | 923 | CLA | O2A-CGA | 3.77 | 1.44 | 1.33 |
| 12 | aF | 202 | CLA | CHD-C4C | 3.77 | 1.47 | 1.39 |
| 12 | cB | 908 | CLA | C3D-C2D | 3.77 | 1.49 | 1.39 |
| 12 | bF | 202 | CLA | CHD-C4C | 3.77 | 1.47 | 1.39 |
| 12 | cB | 910 | CLA | CHD-C4C | 3.77 | 1.47 | 1.39 |
| 12 | cB | 918 | CLA | CHD-C4C | 3.77 | 1.47 | 1.39 |
| 12 | aA | 843 | CLA | O2A-CGA | 3.77 | 1.44 | 1.33 |
| 12 | bB | 918 | CLA | CHD-C4C | 3.76 | 1.47 | 1.39 |
| 12 | aB | 924 | CLA | CHD-C1D | 3.76 | 1.45 | 1.38 |
| 12 | aA | 854 | CLA | C3D-C2D | 3.76 | 1.49 | 1.39 |
| 12 | aA | 835 | CLA | CHD-C1D | 3.76 | 1.45 | 1.38 |
| 12 | cA | 822 | CLA | CHD-C4C | 3.76 | 1.47 | 1.39 |
| 12 | cA | 819 | CLA | CHD-C1D | 3.76 | 1.45 | 1.38 |
| 12 | cB | 923 | CLA | O2A-CGA | 3.76 | 1.44 | 1.33 |
| 12 | bB | 916 | CLA | CHD-C4C | 3.76 | 1.47 | 1.39 |
| 12 | cA | 802 | CLA | CHD-C4C | 3.76 | 1.47 | 1.39 |
| 12 | cA | 832 | CLA | CHD-C4C | 3.76 | 1.47 | 1.39 |
| 12 | aB | 922 | CLA | C1D-ND | 3.76 | 1.42 | 1.37 |
| 12 | bB | 920 | CLA | C3D-C2D | 3.76 | 1.49 | 1.39 |
| 12 | aB | 920 | CLA | C3D-C2D | 3.76 | 1.49 | 1.39 |
| 12 | aB | 910 | CLA | CHD-C4C | 3.76 | 1.47 | 1.39 |
| 12 | bA | 817 | CLA | CHD-C1D | 3.76 | 1.45 | 1.38 |
| 11 | aA | 801 | CL0 | CHD-C1D | 3.76 | 1.45 | 1.38 |
| 12 | aA | 806 | CLA | CHD-C4C | 3.76 | 1.47 | 1.39 |
| 12 | aA | 834 | CLA | CHD-C4C | 3.75 | 1.47 | 1.39 |
| 12 | bA | 819 | CLA | CHD-C1D | 3.75 | 1.45 | 1.38 |
| 12 | aA | 811 | CLA | CHD-C4C | 3.75 | 1.47 | 1.39 |
| 12 | cF | 202 | CLA | CHD-C4C | 3.75 | 1.47 | 1.39 |
| 12 | bA | 830 | CLA | C3D-C2D | 3.75 | 1.49 | 1.39 |
| 12 | aB | 908 | CLA | C3D-C2D | 3.75 | 1.49 | 1.39 |
| 12 | aB | 937 | CLA | CHD-C4C | 3.75 | 1.47 | 1.39 |
| 12 | cA | 811 | CLA | CHD-C4C | 3.75 | 1.47 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 835 | CLA | C3D-C2D | 3.75 | 1.49 | 1.39 |
| 12 | cA | 853 | CLA | C3D-C2D | 3.75 | 1.49 | 1.39 |
| 12 | bB | 924 | CLA | CHD-C1D | 3.75 | 1.45 | 1.38 |
| 12 | cB | 937 | CLA | CHD-C4C | 3.75 | 1.47 | 1.39 |
| 12 | bA | 826 | CLA | C1D-ND | 3.75 | 1.42 | 1.37 |
| 12 | cB | 949 | CLA | CHD-C4C | 3.75 | 1.47 | 1.39 |
| 12 | aA | 830 | CLA | C3D-C2D | 3.75 | 1.49 | 1.39 |
| 12 | cB | 929 | CLA | CHD-C1D | 3.75 | 1.45 | 1.38 |
| 12 | aA | 829 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 12 | bA | 805 | CLA | C3D-C2D | 3.74 | 1.49 | 1.39 |
| 12 | bA | 834 | CLA | CHD-C4C | 3.74 | 1.47 | 1.39 |
| 12 | aA | 835 | CLA | C3D-C2D | 3.74 | 1.49 | 1.39 |
| 12 | aB | 918 | CLA | CHD-C4C | 3.74 | 1.47 | 1.39 |
| 12 | bA | 853 | CLA | C3D-C2D | 3.74 | 1.49 | 1.39 |
| 12 | cA | 806 | CLA | CHD-C4C | 3.74 | 1.47 | 1.39 |
| 12 | cB | 928 | CLA | C1D-ND | 3.74 | 1.42 | 1.37 |
| 12 | cB | 928 | CLA | CHD-C1D | 3.74 | 1.45 | 1.38 |
| 12 | cA | 839 | CLA | CHD-C1D | 3.74 | 1.45 | 1.38 |
| 12 | bA | 835 | CLA | C3D-C2D | 3.74 | 1.49 | 1.39 |
| 12 | bA | 802 | CLA | C1B-NB | -3.74 | 1.31 | 1.35 |
| 12 | aB | 950 | CLA | C3D-C2D | 3.74 | 1.49 | 1.39 |
| 12 | bA | 810 | CLA | C3D-C2D | 3.74 | 1.49 | 1.39 |
| 12 | aL | 203 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 12 | bB | 935 | CLA | C1B-NB | -3.73 | 1.31 | 1.35 |
| 12 | aB | 916 | CLA | CHD-C1D | 3.73 | 1.45 | 1.38 |
| 12 | cA | 830 | CLA | C3D-C2D | 3.73 | 1.49 | 1.39 |
| 12 | aA | 819 | CLA | CHD-C1D | 3.73 | 1.45 | 1.38 |
| 12 | aA | 839 | CLA | CHD-C1D | 3.73 | 1.45 | 1.38 |
| 12 | cL | 203 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 12 | aA | 802 | CLA | CHD-C4C | 3.73 | 1.47 | 1.39 |
| 12 | aB | 949 | CLA | CHD-C4C | 3.73 | 1.47 | 1.39 |
| 12 | bB | 950 | CLA | C3D-C2D | 3.73 | 1.49 | 1.39 |
| 12 | aA | 809 | CLA | CHD-C1D | 3.73 | 1.45 | 1.38 |
| 12 | bA | 809 | CLA | CHD-C1D | 3.73 | 1.45 | 1.38 |
| 12 | aA | 826 | CLA | C1D-ND | 3.73 | 1.42 | 1.37 |
| 12 | aA | 830 | CLA | CHD-C1D | 3.72 | 1.45 | 1.38 |
| 12 | bB | 933 | CLA | C3D-C2D | 3.72 | 1.49 | 1.39 |
| 12 | bB | 928 | CLA | CHD-C1D | 3.72 | 1.45 | 1.38 |
| 12 | bL | 203 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 12 | aB | 904 | CLA | O2A-CGA | 3.72 | 1.44 | 1.33 |
| 12 | aA | 810 | CLA | C3D-C2D | 3.72 | 1.49 | 1.39 |
| 12 | cA | 810 | CLA | C3D-C2D | 3.72 | 1.49 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 904 | CLA | O2A-CGA | 3.72 | 1.44 | 1.33 |
| 12 | aA | 805 | CLA | C3D-C2D | 3.72 | 1.49 | 1.39 |
| 12 | cA | 826 | CLA | C1D-ND | 3.72 | 1.42 | 1.37 |
| 12 | cB | 935 | CLA | C1B-NB | -3.72 | 1.31 | 1.35 |
| 11 | cA | 801 | CL0 | CHD-C1D | 3.72 | 1.45 | 1.38 |
| 12 | aB | 916 | CLA | CHD-C4C | 3.72 | 1.47 | 1.39 |
| 12 | cA | 809 | CLA | CHD-C1D | 3.72 | 1.45 | 1.38 |
| 12 | cB | 917 | CLA | CHD-C1D | 3.72 | 1.45 | 1.38 |
| 12 | bA | 824 | CLA | CHD-C4C | 3.72 | 1.47 | 1.39 |
| 12 | cL | 203 | CLA | C3D-C2D | 3.71 | 1.49 | 1.39 |
| 12 | cB | 933 | CLA | C3D-C2D | 3.71 | 1.49 | 1.39 |
| 12 | bA | 817 | CLA | C3D-C2D | 3.71 | 1.49 | 1.39 |
| 12 | bA | 829 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 12 | bL | 203 | CLA | C3D-C2D | 3.71 | 1.49 | 1.39 |
| 12 | aA | 826 | CLA | C3D-C2D | 3.71 | 1.49 | 1.39 |
| 12 | bA | 839 | CLA | CHD-C1D | 3.71 | 1.45 | 1.38 |
| 12 | aA | 844 | CLA | C3D-C2D | 3.71 | 1.49 | 1.39 |
| 12 | bB | 949 | CLA | CHD-C4C | 3.71 | 1.47 | 1.39 |
| 12 | aB | 928 | CLA | C1D-ND | 3.71 | 1.42 | 1.37 |
| 12 | cA | 805 | CLA | C3D-C2D | 3.71 | 1.49 | 1.39 |
| 12 | aL | 203 | CLA | C3D-C2D | 3.71 | 1.49 | 1.39 |
| 12 | cB | 909 | CLA | CHD-C1D | 3.70 | 1.45 | 1.38 |
| 11 | bA | 801 | CL0 | CHD-C1D | 3.70 | 1.45 | 1.38 |
| 12 | cB | 916 | CLA | CHD-C1D | 3.70 | 1.45 | 1.38 |
| 12 | aA | 824 | CLA | CHD-C4C | 3.70 | 1.47 | 1.39 |
| 12 | bB | 922 | CLA | C1D-ND | 3.70 | 1.42 | 1.37 |
| 12 | bA | 816 | CLA | CHD-C4C | 3.70 | 1.47 | 1.39 |
| 12 | aB | 928 | CLA | CHD-C1D | 3.70 | 1.45 | 1.38 |
| 12 | cA | 835 | CLA | C1B-NB | -3.70 | 1.31 | 1.35 |
| 12 | aB | 904 | CLA | CHD-C1D | 3.70 | 1.45 | 1.38 |
| 12 | aB | 913 | CLA | CHD-C1D | 3.70 | 1.45 | 1.38 |
| 12 | bA | 826 | CLA | C3D-C2D | 3.70 | 1.49 | 1.39 |
| 12 | bB | 916 | CLA | CHD-C1D | 3.70 | 1.45 | 1.38 |
| 12 | cA | 817 | CLA | C3D-C2D | 3.70 | 1.49 | 1.39 |
| 12 | bA | 802 | CLA | CHD-C4C | 3.69 | 1.47 | 1.39 |
| 12 | bB | 930 | CLA | C3D-C2D | 3.69 | 1.49 | 1.39 |
| 12 | aB | 930 | CLA | C3D-C2D | 3.69 | 1.49 | 1.39 |
| 12 | bB | 937 | CLA | CHD-C4C | 3.69 | 1.47 | 1.39 |
| 12 | aA | 817 | CLA | C3D-C2D | 3.69 | 1.49 | 1.39 |
| 12 | bA | 837 | CLA | CHD-C4C | 3.69 | 1.47 | 1.39 |
| 12 | aB | 909 | CLA | CHD-C1D | 3.69 | 1.45 | 1.38 |
| 12 | bB | 904 | CLA | CHD-C1D | 3.69 | 1.45 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 920 | CLA | CHD-C1D | 3.69 | 1.45 | 1.38 |
| 12 | cB | 904 | CLA | CHD-C1D | 3.69 | 1.45 | 1.38 |
| 12 | aA | 829 | CLA | CHD-C1D | 3.69 | 1.45 | 1.38 |
| 12 | cB | 904 | CLA | O2A-CGA | 3.68 | 1.44 | 1.33 |
| 12 | bA | 809 | CLA | CHD-C4C | 3.68 | 1.47 | 1.39 |
| 12 | aB | 917 | CLA | CHD-C1D | 3.68 | 1.45 | 1.38 |
| 12 | cB | 930 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | aA | 816 | CLA | CHD-C4C | 3.68 | 1.47 | 1.39 |
| 12 | cB | 902 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | aA | 822 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | bA | 822 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | aA | 835 | CLA | C1B-NB | -3.68 | 1.31 | 1.35 |
| 12 | cB | 922 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 12 | aB | 902 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | bB | 917 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | aB | 914 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | aB | 934 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | bA | 830 | CLA | C1D-ND | 3.68 | 1.42 | 1.37 |
| 12 | bB | 934 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | cA | 822 | CLA | C3D-C2D | 3.68 | 1.49 | 1.39 |
| 12 | bB | 931 | CLA | CHD-C4C | 3.68 | 1.47 | 1.39 |
| 12 | aB | 935 | CLA | C1B-NB | -3.68 | 1.31 | 1.35 |
| 12 | bB | 914 | CLA | C3D-C2D | 3.67 | 1.49 | 1.39 |
| 12 | bB | 914 | CLA | CHD-C1D | 3.67 | 1.45 | 1.38 |
| 12 | cB | 920 | CLA | CHD-C1D | 3.67 | 1.45 | 1.38 |
| 12 | aB | 933 | CLA | C3D-C2D | 3.67 | 1.49 | 1.39 |
| 12 | aA | 809 | CLA | CHD-C4C | 3.67 | 1.47 | 1.39 |
| 12 | bA | 841 | CLA | CHD-C1D | 3.67 | 1.45 | 1.38 |
| 12 | bB | 920 | CLA | CHD-C1D | 3.67 | 1.45 | 1.38 |
| 12 | cA | 813 | CLA | C3D-C2D | 3.67 | 1.49 | 1.39 |
| 12 | bA | 830 | CLA | C1B-NB | -3.67 | 1.31 | 1.35 |
| 12 | bB | 917 | CLA | CHD-C1D | 3.67 | 1.45 | 1.38 |
| 12 | cA | 826 | CLA | C3D-C2D | 3.67 | 1.49 | 1.39 |
| 12 | aB | 915 | CLA | CHD-C4C | 3.67 | 1.47 | 1.39 |
| 12 | bB | 909 | CLA | CHD-C1D | 3.67 | 1.45 | 1.38 |
| 12 | cA | 824 | CLA | CHD-C4C | 3.67 | 1.47 | 1.39 |
| 12 | cA | 816 | CLA | CHD-C4C | 3.67 | 1.47 | 1.39 |
| 12 | bA | 815 | CLA | C3D-C2D | 3.67 | 1.49 | 1.39 |
| 12 | bB | 912 | CLA | O2A-CGA | 3.67 | 1.44 | 1.33 |
| 12 | cB | 917 | CLA | C3D-C2D | 3.67 | 1.49 | 1.39 |
| 12 | bA | 819 | CLA | C1B-NB | -3.67 | 1.31 | 1.35 |
| 12 | cB | 914 | CLA | C3D-C2D | 3.66 | 1.49 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 917 | CLA | C3D-C2D | 3.66 | 1.49 | 1.39 |
| 12 | bB | 902 | CLA | C3D-C2D | 3.66 | 1.49 | 1.39 |
| 12 | cB | 913 | CLA | CHD-C1D | 3.66 | 1.45 | 1.38 |
| 12 | aA | 815 | CLA | C3D-C2D | 3.66 | 1.49 | 1.39 |
| 12 | bB | 949 | CLA | C3D-C2D | 3.66 | 1.49 | 1.39 |
| 12 | cA | 815 | CLA | C3D-C2D | 3.66 | 1.49 | 1.39 |
| 12 | aA | 837 | CLA | CHD-C4C | 3.66 | 1.47 | 1.39 |
| 12 | bB | 913 | CLA | CHD-C1D | 3.66 | 1.45 | 1.38 |
| 12 | aB | 904 | CLA | C1B-NB | -3.66 | 1.31 | 1.35 |
| 12 | cB | 901 | CLA | C1D-ND | 3.66 | 1.42 | 1.37 |
| 12 | aB | 931 | CLA | CHD-C4C | 3.66 | 1.47 | 1.39 |
| 12 | aA | 828 | CLA | C1B-NB | -3.66 | 1.31 | 1.35 |
| 12 | aA | 813 | CLA | C3D-C2D | 3.66 | 1.49 | 1.39 |
| 12 | bB | 901 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 12 | bA | 804 | CLA | C3D-C2D | 3.65 | 1.49 | 1.39 |
| 12 | bA | 813 | CLA | C3D-C2D | 3.65 | 1.49 | 1.39 |
| 12 | cB | 934 | CLA | C3D-C2D | 3.65 | 1.49 | 1.39 |
| 12 | cB | 912 | CLA | O2A-CGA | 3.65 | 1.44 | 1.33 |
| 12 | bB | 938 | CLA | CHD-C4C | 3.65 | 1.47 | 1.39 |
| 12 | cA | 828 | CLA | C1D-ND | 3.65 | 1.42 | 1.37 |
| 12 | bA | 828 | CLA | C1B-NB | -3.65 | 1.32 | 1.35 |
| 12 | aB | 912 | CLA | O2A-CGA | 3.65 | 1.44 | 1.33 |
| 12 | aA | 818 | CLA | CHD-C4C | 3.65 | 1.47 | 1.39 |
| 12 | bA | 820 | CLA | C3D-C2D | 3.65 | 1.49 | 1.39 |
| 12 | aB | 938 | CLA | CHD-C4C | 3.65 | 1.47 | 1.39 |
| 12 | bA | 827 | CLA | CHD-C4C | 3.65 | 1.47 | 1.39 |
| 12 | aL | 202 | CLA | C3D-C2D | 3.64 | 1.49 | 1.39 |
| 12 | cB | 931 | CLA | CHD-C4C | 3.64 | 1.47 | 1.39 |
| 12 | cA | 806 | CLA | CHD-C1D | 3.64 | 1.45 | 1.38 |
| 12 | cB | 923 | CLA | CHD-C1D | 3.64 | 1.45 | 1.38 |
| 12 | aA | 841 | CLA | CHD-C1D | 3.64 | 1.45 | 1.38 |
| 12 | aA | 820 | CLA | C3D-C2D | 3.64 | 1.49 | 1.39 |
| 12 | aA | 828 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 12 | bL | 202 | CLA | C3D-C2D | 3.64 | 1.49 | 1.39 |
| 12 | aL | 202 | CLA | CHD-C4C | 3.64 | 1.47 | 1.39 |
| 12 | cA | 809 | CLA | CHD-C4C | 3.64 | 1.47 | 1.39 |
| 12 | cA | 827 | CLA | CHD-C4C | 3.64 | 1.47 | 1.39 |
| 12 | cB | 914 | CLA | CHD-C1D | 3.64 | 1.45 | 1.38 |
| 12 | bB | 924 | CLA | C1D-ND | 3.64 | 1.42 | 1.37 |
| 12 | aA | 804 | CLA | C3D-C2D | 3.64 | 1.49 | 1.39 |
| 12 | aA | 840 | CLA | C3D-C2D | 3.64 | 1.49 | 1.39 |
| 12 | cB | 915 | CLA | CHD-C4C | 3.64 | 1.47 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 827 | CLA | CHD-C4C | 3.64 | 1.47 | 1.39 |
| 12 | bA | 824 | CLA | C3D-C2D | 3.64 | 1.49 | 1.39 |
| 12 | aA | 838 | CLA | CHD-C1D | 3.64 | 1.45 | 1.38 |
| 12 | bB | 915 | CLA | CHD-C4C | 3.64 | 1.47 | 1.39 |
| 12 | bA | 840 | CLA | C3D-C2D | 3.63 | 1.49 | 1.39 |
| 12 | aA | 818 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | aB | 923 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | cA | 829 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | aB | 926 | CLA | C1B-NB | -3.63 | 1.32 | 1.35 |
| 12 | cA | 837 | CLA | CHD-C4C | 3.63 | 1.47 | 1.39 |
| 12 | aA | 824 | CLA | C3D-C2D | 3.63 | 1.49 | 1.39 |
| 12 | cL | 202 | CLA | C3D-C2D | 3.63 | 1.49 | 1.39 |
| 12 | aA | 806 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | bA | 806 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | aA | 842 | CLA | C3D-C2D | 3.63 | 1.49 | 1.39 |
| 12 | cA | 822 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | bA | 818 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | cA | 818 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | bL | 202 | CLA | CHD-C4C | 3.63 | 1.47 | 1.39 |
| 12 | cA | 840 | CLA | C3D-C2D | 3.63 | 1.49 | 1.39 |
| 12 | cB | 949 | CLA | C3D-C2D | 3.63 | 1.49 | 1.39 |
| 12 | cA | 820 | CLA | C3D-C2D | 3.63 | 1.49 | 1.39 |
| 12 | bA | 822 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | cA | 841 | CLA | CHD-C1D | 3.63 | 1.45 | 1.38 |
| 12 | bB | 924 | CLA | CHD-C4C | 3.62 | 1.47 | 1.39 |
| 12 | bA | 829 | CLA | CHD-C1D | 3.62 | 1.45 | 1.38 |
| 12 | bB | 928 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 12 | bB | 910 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |
| 12 | cA | 824 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |
| 12 | aB | 914 | CLA | CHD-C1D | 3.62 | 1.45 | 1.38 |
| 12 | aB | 929 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |
| 12 | cA | 836 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |
| 12 | cL | 202 | CLA | CHD-C4C | 3.62 | 1.47 | 1.39 |
| 12 | aA | 822 | CLA | CHD-C1D | 3.62 | 1.45 | 1.38 |
| 12 | cB | 924 | CLA | C1D-ND | 3.62 | 1.42 | 1.37 |
| 12 | aA | 814 | CLA | CHD-C4C | 3.62 | 1.47 | 1.39 |
| 12 | bA | 817 | CLA | CHD-C4C | 3.62 | 1.47 | 1.39 |
| 12 | cB | 929 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |
| 12 | bB | 950 | CLA | CHD-C1D | 3.62 | 1.45 | 1.38 |
| 12 | cB | 935 | CLA | CHD-C1D | 3.62 | 1.45 | 1.38 |
| 12 | aB | 935 | CLA | CHD-C1D | 3.62 | 1.45 | 1.38 |
| 12 | aA | 831 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 910 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |
| 12 | bA | 807 | CLA | CHD-C4C | 3.62 | 1.47 | 1.39 |
| 12 | aB | 949 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |
| 12 | bA | 818 | CLA | CHD-C4C | 3.62 | 1.47 | 1.39 |
| 12 | bA | 838 | CLA | CHD-C1D | 3.62 | 1.45 | 1.38 |
| 12 | bA | 831 | CLA | C3D-C2D | 3.62 | 1.49 | 1.39 |
| 12 | aA | 812 | CLA | CHD-C1D | 3.61 | 1.45 | 1.38 |
| 12 | aA | 813 | CLA | CHD-C4C | 3.61 | 1.47 | 1.39 |
| 12 | cA | 807 | CLA | CHD-C4C | 3.61 | 1.47 | 1.39 |
| 12 | bB | 923 | CLA | CHD-C1D | 3.61 | 1.45 | 1.38 |
| 12 | aA | 817 | CLA | CHD-C4C | 3.61 | 1.47 | 1.39 |
| 12 | cA | 818 | CLA | CHD-C4C | 3.61 | 1.47 | 1.39 |
| 12 | cB | 904 | CLA | C1B-NB | -3.61 | 1.32 | 1.35 |
| 12 | bB | 929 | CLA | C3D-C2D | 3.61 | 1.49 | 1.39 |
| 12 | aB | 912 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 12 | cB | 912 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 12 | bA | 842 | CLA | C3D-C2D | 3.61 | 1.49 | 1.39 |
| 12 | cA | 804 | CLA | C3D-C2D | 3.61 | 1.49 | 1.39 |
| 12 | bB | 925 | CLA | CHD-C1D | 3.61 | 1.45 | 1.38 |
| 12 | aA | 814 | CLA | C3D-C2D | 3.61 | 1.49 | 1.39 |
| 12 | bF | 202 | CLA | C3D-C2D | 3.61 | 1.49 | 1.39 |
| 12 | cA | 835 | CLA | C1D-ND | 3.61 | 1.42 | 1.37 |
| 12 | aA | 805 | CLA | CHD-C4C | 3.61 | 1.47 | 1.39 |
| 12 | cB | 910 | CLA | C3D-C2D | 3.60 | 1.49 | 1.39 |
| 12 | aA | 807 | CLA | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 12 | cA | 817 | CLA | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 12 | aA | 830 | CLA | C1B-NB | -3.60 | 1.32 | 1.35 |
| 12 | aA | 807 | CLA | CHD-C1D | 3.60 | 1.45 | 1.38 |
| 12 | aB | 925 | CLA | CHD-C1D | 3.60 | 1.45 | 1.38 |
| 12 | bL | 203 | CLA | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 12 | aA | 836 | CLA | C3D-C2D | 3.60 | 1.48 | 1.39 |
| 12 | bA | 835 | CLA | C1B-NB | -3.60 | 1.32 | 1.35 |
| 12 | aA | 830 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 12 | cB | 908 | CLA | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 12 | cA | 814 | CLA | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 12 | cB | 938 | CLA | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 12 | bA | 836 | CLA | C3D-C2D | 3.60 | 1.48 | 1.39 |
| 12 | aB | 924 | CLA | CHD-C4C | 3.60 | 1.47 | 1.39 |
| 12 | aA | 835 | CLA | C1D-ND | 3.60 | 1.42 | 1.37 |
| 12 | cB | 918 | CLA | C3D-C2D | 3.60 | 1.48 | 1.39 |
| 12 | cA | 838 | CLA | CHD-C1D | 3.59 | 1.45 | 1.38 |
| 12 | aF | 202 | CLA | C3D-C2D | 3.59 | 1.48 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 814 | CLA | C3D-C2D | 3.59 | 1.48 | 1.39 |
| 12 | bA | 828 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 12 | cA | 812 | CLA | CHD-C1D | 3.59 | 1.45 | 1.38 |
| 12 | cA | 807 | CLA | CHD-C1D | 3.59 | 1.45 | 1.38 |
| 12 | cA | 831 | CLA | C3D-C2D | 3.59 | 1.48 | 1.39 |
| 12 | cA | 830 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 12 | bA | 813 | CLA | CHD-C4C | 3.59 | 1.47 | 1.39 |
| 12 | aB | 918 | CLA | C3D-C2D | 3.59 | 1.48 | 1.39 |
| 12 | cB | 936 | CLA | C3D-C2D | 3.59 | 1.48 | 1.39 |
| 12 | bB | 935 | CLA | CHD-C1D | 3.59 | 1.45 | 1.38 |
| 12 | cA | 814 | CLA | C3D-C2D | 3.59 | 1.48 | 1.39 |
| 12 | bA | 810 | CLA | CHD-C4C | 3.59 | 1.47 | 1.39 |
| 12 | aB | 924 | CLA | C1D-ND | 3.59 | 1.42 | 1.37 |
| 12 | cA | 813 | CLA | CHD-C4C | 3.59 | 1.47 | 1.39 |
| 12 | aB | 950 | CLA | CHD-C1D | 3.59 | 1.45 | 1.38 |
| 12 | cL | 203 | CLA | CHD-C4C | 3.59 | 1.47 | 1.39 |
| 12 | aB | 904 | CLA | CHD-C4C | 3.59 | 1.47 | 1.39 |
| 12 | bB | 918 | CLA | C3D-C2D | 3.58 | 1.48 | 1.39 |
| 12 | bB | 904 | CLA | CHD-C4C | 3.58 | 1.47 | 1.39 |
| 12 | bB | 908 | CLA | CHD-C4C | 3.58 | 1.47 | 1.39 |
| 12 | bB | 904 | CLA | C1B-NB | -3.58 | 1.32 | 1.35 |
| 12 | aB | 919 | CLA | CHD-C4C | 3.58 | 1.47 | 1.39 |
| 12 | cA | 803 | CLA | C3D-C2D | 3.58 | 1.48 | 1.39 |
| 12 | bA | 805 | CLA | CHD-C4C | 3.58 | 1.47 | 1.39 |
| 12 | cA | 842 | CLA | C3D-C2D | 3.58 | 1.48 | 1.39 |
| 12 | bB | 936 | CLA | C3D-C2D | 3.58 | 1.48 | 1.39 |
| 12 | bA | 834 | CLA | C3D-C2D | 3.58 | 1.48 | 1.39 |
| 12 | cF | 202 | CLA | C3D-C2D | 3.58 | 1.48 | 1.39 |
| 12 | bA | 812 | CLA | CHD-C1D | 3.58 | 1.45 | 1.38 |
| 12 | aA | 825 | CLA | C3D-C2D | 3.58 | 1.48 | 1.39 |
| 12 | bA | 814 | CLA | CHD-C4C | 3.58 | 1.47 | 1.39 |
| 12 | cB | 904 | CLA | CHD-C4C | 3.58 | 1.47 | 1.39 |
| 12 | bA | 808 | CLA | C3D-C2D | 3.58 | 1.48 | 1.39 |
| 12 | aB | 901 | CLA | C1D-ND | 3.58 | 1.42 | 1.37 |
| 12 | cB | 924 | CLA | CHD-C4C | 3.57 | 1.47 | 1.39 |
| 13 | bB | 940 | 1L3 | C28-C26 | 3.57 | 1.58 | 1.51 |
| 12 | bA | 812 | CLA | CHD-C4C | 3.57 | 1.47 | 1.39 |
| 12 | aB | 932 | CLA | C3D-C2D | 3.57 | 1.48 | 1.39 |
| 12 | aL | 203 | CLA | CHD-C4C | 3.57 | 1.47 | 1.39 |
| 12 | aA | 808 | CLA | C3D-C2D | 3.57 | 1.48 | 1.39 |
| 12 | cF | 202 | CLA | OBD-CAD | 3.57 | 1.28 | 1.22 |
| 12 | cB | 929 | CLA | CHD-C4C | 3.57 | 1.47 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 835 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 12 | aA | 834 | CLA | C3D-C2D | 3.57 | 1.48 | 1.39 |
| 12 | bB | 902 | CLA | C1D-ND | 3.57 | 1.42 | 1.37 |
| 12 | aB | 905 | CLA | CHD-C1D | 3.57 | 1.45 | 1.38 |
| 12 | cB | 930 | CLA | CHD-C4C | 3.57 | 1.47 | 1.39 |
| 12 | cA | 808 | CLA | C3D-C2D | 3.57 | 1.48 | 1.39 |
| 12 | aB | 916 | CLA | C3D-C2D | 3.57 | 1.48 | 1.39 |
| 12 | aB | 913 | CLA | C3D-C2D | 3.57 | 1.48 | 1.39 |
| 12 | aA | 844 | CLA | CHD-C1D | 3.57 | 1.45 | 1.38 |
| 12 | cA | 825 | CLA | C3D-C2D | 3.57 | 1.48 | 1.39 |
| 12 | aA | 819 | CLA | CHD-C4C | 3.56 | 1.47 | 1.39 |
| 12 | bA | 825 | CLA | C3D-C2D | 3.56 | 1.48 | 1.39 |
| 12 | bA | 807 | CLA | CHD-C1D | 3.56 | 1.45 | 1.38 |
| 12 | aA | 803 | CLA | CHD-C4C | 3.56 | 1.47 | 1.39 |
| 12 | cA | 834 | CLA | C3D-C2D | 3.56 | 1.48 | 1.39 |
| 12 | bB | 919 | CLA | CHD-C4C | 3.56 | 1.47 | 1.39 |
| 12 | cB | 916 | CLA | C3D-C2D | 3.56 | 1.48 | 1.39 |
| 12 | aA | 804 | CLA | CHD-C4C | 3.56 | 1.47 | 1.39 |
| 13 | aB | 940 | 1L3 | C28-C26 | 3.56 | 1.58 | 1.51 |
| 12 | bA | 803 | CLA | C3D-C2D | 3.56 | 1.48 | 1.39 |
| 12 | cB | 913 | CLA | C3D-C2D | 3.56 | 1.48 | 1.39 |
| 12 | aA | 803 | CLA | C3D-C2D | 3.56 | 1.48 | 1.39 |
| 12 | bB | 916 | CLA | C3D-C2D | 3.56 | 1.48 | 1.39 |
| 12 | cA | 820 | CLA | CHD-C4C | 3.56 | 1.47 | 1.39 |
| 12 | aA | 820 | CLA | CHD-C4C | 3.56 | 1.47 | 1.39 |
| 12 | bB | 930 | CLA | CHD-C4C | 3.56 | 1.47 | 1.39 |
| 12 | aB | 936 | CLA | C3D-C2D | 3.56 | 1.48 | 1.39 |
| 12 | cB | 925 | CLA | CHD-C1D | 3.56 | 1.45 | 1.38 |
| 12 | bB | 905 | CLA | CHD-C1D | 3.55 | 1.45 | 1.38 |
| 12 | aB | 902 | CLA | C1D-ND | 3.55 | 1.42 | 1.37 |
| 12 | cA | 816 | CLA | C3D-C2D | 3.55 | 1.48 | 1.39 |
| 12 | bA | 842 | CLA | CHD-C1D | 3.55 | 1.45 | 1.38 |
| 12 | cA | 828 | CLA | C1B-NB | -3.55 | 1.32 | 1.35 |
| 12 | cA | 842 | CLA | CHD-C1D | 3.55 | 1.45 | 1.38 |
| 12 | cA | 803 | CLA | CHD-C4C | 3.55 | 1.47 | 1.39 |
| 12 | cA | 805 | CLA | CHD-C4C | 3.55 | 1.47 | 1.39 |
| 12 | cB | 932 | CLA | C3D-C2D | 3.55 | 1.48 | 1.39 |
| 13 | cB | 940 | 1L3 | C28-C26 | 3.55 | 1.58 | 1.51 |
| 12 | cB | 906 | CLA | CHD-C1D | 3.55 | 1.45 | 1.38 |
| 12 | aB | 926 | CLA | C3D-C2D | 3.55 | 1.48 | 1.39 |
| 12 | aB | 912 | CLA | C1B-NB | -3.55 | 1.32 | 1.35 |
| 12 | bA | 803 | CLA | CHD-C4C | 3.55 | 1.47 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 829 | CLA | CHD-C4C | 3.55 | 1.47 | 1.39 |
| 12 | bA | 820 | CLA | CHD-C4C | 3.55 | 1.47 | 1.39 |
| 12 | cA | 810 | CLA | CHD-C4C | 3.55 | 1.47 | 1.39 |
| 12 | cA | 827 | CLA | CHD-C1D | 3.55 | 1.45 | 1.38 |
| 12 | bB | 913 | CLA | C3D-C2D | 3.55 | 1.48 | 1.39 |
| 12 | bB | 932 | CLA | C3D-C2D | 3.55 | 1.48 | 1.39 |
| 12 | bB | 926 | CLA | C3D-C2D | 3.55 | 1.48 | 1.39 |
| 12 | aB | 930 | CLA | CHD-C4C | 3.54 | 1.47 | 1.39 |
| 12 | bA | 816 | CLA | C3D-C2D | 3.54 | 1.48 | 1.39 |
| 12 | bB | 927 | CLA | CHD-C4C | 3.54 | 1.47 | 1.39 |
| 12 | aA | 827 | CLA | CHD-C1D | 3.54 | 1.45 | 1.38 |
| 12 | cB | 905 | CLA | CHD-C1D | 3.54 | 1.45 | 1.38 |
| 12 | aA | 810 | CLA | CHD-C4C | 3.54 | 1.47 | 1.39 |
| 12 | bB | 934 | CLA | OBD-CAD | 3.54 | 1.28 | 1.22 |
| 12 | aB | 913 | CLA | CHD-C4C | 3.54 | 1.47 | 1.39 |
| 12 | cB | 921 | CLA | C3D-C2D | 3.54 | 1.48 | 1.39 |
| 12 | aB | 906 | CLA | CHD-C1D | 3.54 | 1.45 | 1.38 |
| 12 | aA | 816 | CLA | C3D-C2D | 3.54 | 1.48 | 1.39 |
| 12 | bA | 841 | CLA | C3D-C2D | 3.54 | 1.48 | 1.39 |
| 12 | bA | 819 | CLA | CHD-C4C | 3.54 | 1.47 | 1.39 |
| 12 | bA | 804 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | bA | 811 | CLA | C3D-C2D | 3.53 | 1.48 | 1.39 |
| 12 | cB | 919 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | aB | 934 | CLA | OBD-CAD | 3.53 | 1.28 | 1.22 |
| 12 | cA | 836 | CLA | OBD-CAD | 3.53 | 1.28 | 1.22 |
| 12 | bB | 912 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 12 | cA | 804 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | bB | 906 | CLA | CHD-C1D | 3.53 | 1.45 | 1.38 |
| 12 | cA | 811 | CLA | C3D-C2D | 3.53 | 1.48 | 1.39 |
| 12 | bL | 204 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | cB | 912 | CLA | C1B-NB | -3.53 | 1.32 | 1.35 |
| 12 | cB | 927 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | aA | 811 | CLA | C3D-C2D | 3.53 | 1.48 | 1.39 |
| 12 | cB | 908 | CLA | C1D-ND | 3.53 | 1.42 | 1.37 |
| 12 | aA | 835 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | bA | 835 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | cA | 819 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | cB | 926 | CLA | C3D-C2D | 3.53 | 1.48 | 1.39 |
| 12 | aB | 908 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | aA | 841 | CLA | C3D-C2D | 3.53 | 1.48 | 1.39 |
| 12 | cA | 829 | CLA | CHD-C4C | 3.53 | 1.47 | 1.39 |
| 12 | aA | 821 | CLA | C3D-C2D | 3.53 | 1.48 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 926 | CLA | C1B-NB | -3.52 | 1.32 | 1.35 |
| 12 | aB | 908 | CLA | C1D-ND | 3.52 | 1.42 | 1.37 |
| 12 | aB | 921 | CLA | C3D-C2D | 3.52 | 1.48 | 1.39 |
| 12 | bF | 202 | CLA | OBD-CAD | 3.52 | 1.28 | 1.22 |
| 12 | cB | 911 | CLA | C3D-C2D | 3.52 | 1.48 | 1.39 |
| 12 | aA | 842 | CLA | CHD-C1D | 3.52 | 1.45 | 1.38 |
| 12 | aA | 825 | CLA | CHD-C4C | 3.52 | 1.47 | 1.39 |
| 12 | aB | 927 | CLA | CHD-C4C | 3.52 | 1.47 | 1.39 |
| 12 | aB | 917 | CLA | C1B-NB | -3.52 | 1.32 | 1.35 |
| 12 | bA | 838 | CLA | CHD-C4C | 3.52 | 1.47 | 1.39 |
| 12 | bB | 913 | CLA | CHD-C4C | 3.52 | 1.47 | 1.39 |
| 12 | bA | 827 | CLA | CHD-C1D | 3.52 | 1.45 | 1.38 |
| 12 | cA | 821 | CLA | C3D-C2D | 3.52 | 1.48 | 1.39 |
| 12 | cA | 825 | CLA | CHD-C4C | 3.52 | 1.47 | 1.39 |
| 12 | cA | 835 | CLA | CHD-C4C | 3.51 | 1.47 | 1.39 |
| 12 | bB | 921 | CLA | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 12 | aB | 911 | CLA | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 12 | aA | 809 | CLA | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 12 | cA | 841 | CLA | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 12 | cA | 812 | CLA | CHD-C4C | 3.51 | 1.47 | 1.39 |
| 12 | bA | 809 | CLA | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 12 | aA | 829 | CLA | CHD-C4C | 3.51 | 1.47 | 1.39 |
| 12 | cA | 809 | CLA | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 12 | aF | 202 | CLA | OBD-CAD | 3.51 | 1.28 | 1.22 |
| 12 | aL | 204 | CLA | CHD-C4C | 3.51 | 1.47 | 1.39 |
| 12 | bA | 821 | CLA | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 12 | bA | 833 | CLA | CHD-C4C | 3.51 | 1.47 | 1.39 |
| 12 | aA | 812 | CLA | CHD-C4C | 3.51 | 1.47 | 1.39 |
| 12 | cB | 924 | CLA | C3D-C2D | 3.51 | 1.48 | 1.39 |
| 12 | cL | 204 | CLA | CHD-C4C | 3.51 | 1.47 | 1.39 |
| 12 | aA | 833 | CLA | CHD-C4C | 3.50 | 1.47 | 1.39 |
| 12 | cB | 934 | CLA | OBD-CAD | 3.50 | 1.28 | 1.22 |
| 12 | bB | 911 | CLA | C3D-C2D | 3.50 | 1.48 | 1.39 |
| 12 | aA | 836 | CLA | OBD-CAD | 3.50 | 1.28 | 1.22 |
| 12 | aB | 929 | CLA | CHD-C4C | 3.50 | 1.47 | 1.39 |
| 12 | bB | 912 | CLA | C1B-NB | -3.50 | 1.32 | 1.35 |
| 12 | cA | 837 | CLA | CHD-C1D | 3.50 | 1.45 | 1.38 |
| 12 | cB | 926 | CLA | C1B-NB | -3.50 | 1.32 | 1.35 |
| 12 | bA | 825 | CLA | CHD-C4C | 3.50 | 1.47 | 1.39 |
| 12 | aA | 812 | CLA | C3D-C2D | 3.50 | 1.48 | 1.39 |
| 12 | aB | 922 | CLA | CHD-C1D | 3.50 | 1.45 | 1.38 |
| 12 | aB | 924 | CLA | C3D-C2D | 3.50 | 1.48 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 828 | CLA | C3D-C2D | 3.49 | 1.48 | 1.39 |
| 12 | cA | 838 | CLA | CHD-C4C | 3.49 | 1.47 | 1.39 |
| 12 | aA | 828 | CLA | C3D-C2D | 3.49 | 1.48 | 1.39 |
| 12 | aA | 829 | CLA | C3D-C2D | 3.49 | 1.48 | 1.39 |
| 12 | bB | 929 | CLA | CHD-C4C | 3.49 | 1.47 | 1.39 |
| 12 | bA | 832 | CLA | C3D-C2D | 3.49 | 1.48 | 1.39 |
| 12 | bB | 924 | CLA | C3D-C2D | 3.49 | 1.48 | 1.39 |
| 12 | cB | 902 | CLA | C1D-ND | 3.49 | 1.42 | 1.37 |
| 12 | bA | 837 | CLA | CHD-C1D | 3.49 | 1.45 | 1.38 |
| 12 | aA | 832 | CLA | C3D-C2D | 3.49 | 1.48 | 1.39 |
| 12 | bA | 836 | CLA | OBD-CAD | 3.49 | 1.28 | 1.22 |
| 12 | aB | 928 | CLA | CHD-C4C | 3.49 | 1.47 | 1.39 |
| 12 | bB | 922 | CLA | CHD-C1D | 3.48 | 1.45 | 1.38 |
| 12 | bA | 802 | CLA | C3D-C2D | 3.48 | 1.48 | 1.39 |
| 12 | cB | 910 | CLA | C1B-NB | -3.48 | 1.32 | 1.35 |
| 12 | cA | 832 | CLA | C3D-C2D | 3.48 | 1.48 | 1.39 |
| 12 | cA | 812 | CLA | C3D-C2D | 3.48 | 1.48 | 1.39 |
| 12 | bA | 812 | CLA | C3D-C2D | 3.48 | 1.48 | 1.39 |
| 12 | cB | 913 | CLA | CHD-C4C | 3.48 | 1.47 | 1.39 |
| 12 | bA | 829 | CLA | C3D-C2D | 3.48 | 1.48 | 1.39 |
| 12 | cA | 833 | CLA | CHD-C4C | 3.48 | 1.47 | 1.39 |
| 12 | bB | 923 | CLA | CHD-C4C | 3.48 | 1.47 | 1.39 |
| 12 | aA | 838 | CLA | C3D-C2D | 3.48 | 1.48 | 1.39 |
| 12 | aB | 915 | CLA | C3D-C2D | 3.47 | 1.48 | 1.39 |
| 12 | cA | 829 | CLA | C3D-C2D | 3.47 | 1.48 | 1.39 |
| 12 | cB | 923 | CLA | CHD-C4C | 3.47 | 1.47 | 1.39 |
| 12 | cA | 819 | CLA | C3D-C2D | 3.47 | 1.48 | 1.39 |
| 12 | bA | 819 | CLA | C3D-C2D | 3.47 | 1.48 | 1.39 |
| 12 | bB | 909 | CLA | C3D-C2D | 3.47 | 1.48 | 1.39 |
| 12 | aA | 844 | CLA | CHD-C4C | 3.47 | 1.47 | 1.39 |
| 12 | bB | 917 | CLA | C1B-NB | -3.47 | 1.32 | 1.35 |
| 12 | cA | 828 | CLA | C3D-C2D | 3.47 | 1.48 | 1.39 |
| 12 | cB | 917 | CLA | CHD-C4C | 3.47 | 1.47 | 1.39 |
| 12 | bB | 950 | CLA | CHD-C4C | 3.47 | 1.47 | 1.39 |
| 12 | aA | 838 | CLA | CHD-C4C | 3.47 | 1.47 | 1.39 |
| 12 | bB | 928 | CLA | CHD-C4C | 3.47 | 1.47 | 1.39 |
| 12 | cB | 914 | CLA | CHD-C4C | 3.46 | 1.47 | 1.39 |
| 12 | aA | 837 | CLA | CHD-C1D | 3.46 | 1.45 | 1.38 |
| 12 | cB | 906 | CLA | C3D-C2D | 3.46 | 1.48 | 1.39 |
| 12 | aB | 950 | CLA | CHD-C4C | 3.46 | 1.47 | 1.39 |
| 12 | cB | 928 | CLA | CHD-C4C | 3.46 | 1.47 | 1.39 |
| 12 | bB | 906 | CLA | C3D-C2D | 3.46 | 1.48 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 821 | CLA | C1B-NB | -3.46 | 1.32 | 1.35 |
| 15 | cB | 944 | BCR | C1-C6 | -3.46 | 1.49 | 1.53 |
| 12 | bB | 906 | CLA | CHD-C4C | 3.46 | 1.47 | 1.39 |
| 12 | aA | 802 | CLA | C3D-C2D | 3.46 | 1.48 | 1.39 |
| 12 | bB | 914 | CLA | CHD-C4C | 3.46 | 1.47 | 1.39 |
| 12 | bB | 908 | CLA | C1D-ND | 3.46 | 1.42 | 1.37 |
| 12 | bB | 905 | CLA | CHD-C4C | 3.46 | 1.47 | 1.39 |
| 12 | cB | 917 | CLA | C1B-NB | -3.46 | 1.32 | 1.35 |
| 12 | aB | 914 | CLA | CHD-C4C | 3.46 | 1.47 | 1.39 |
| 12 | aA | 819 | CLA | C3D-C2D | 3.46 | 1.48 | 1.39 |
| 12 | bA | 838 | CLA | C3D-C2D | 3.45 | 1.48 | 1.39 |
| 12 | bB | 915 | CLA | C3D-C2D | 3.45 | 1.48 | 1.39 |
| 12 | aB | 906 | CLA | C3D-C2D | 3.45 | 1.48 | 1.39 |
| 12 | cA | 838 | CLA | C3D-C2D | 3.45 | 1.48 | 1.39 |
| 12 | cA | 802 | CLA | C3D-C2D | 3.45 | 1.48 | 1.39 |
| 12 | aB | 917 | CLA | CHD-C4C | 3.45 | 1.47 | 1.39 |
| 12 | aB | 909 | CLA | C3D-C2D | 3.45 | 1.48 | 1.39 |
| 12 | cB | 925 | CLA | CHD-C4C | 3.45 | 1.47 | 1.39 |
| 12 | cB | 922 | CLA | CHD-C1D | 3.45 | 1.45 | 1.38 |
| 12 | aB | 901 | CLA | C1B-NB | -3.45 | 1.32 | 1.35 |
| 12 | aB | 937 | CLA | C3D-C2D | 3.45 | 1.48 | 1.39 |
| 12 | cB | 906 | CLA | CHD-C4C | 3.45 | 1.47 | 1.39 |
| 12 | cB | 937 | CLA | C3D-C2D | 3.45 | 1.48 | 1.39 |
| 12 | bA | 813 | CLA | OBD-CAD | 3.45 | 1.28 | 1.22 |
| 12 | bB | 924 | CLA | C1B-NB | -3.44 | 1.32 | 1.35 |
| 12 | cB | 926 | CLA | C1D-ND | 3.44 | 1.42 | 1.37 |
| 12 | aB | 926 | CLA | C1D-ND | 3.44 | 1.42 | 1.37 |
| 12 | bB | 917 | CLA | CHD-C4C | 3.44 | 1.47 | 1.39 |
| 12 | aB | 923 | CLA | CHD-C4C | 3.44 | 1.47 | 1.39 |
| 12 | cB | 915 | CLA | C3D-C2D | 3.44 | 1.48 | 1.39 |
| 12 | cB | 909 | CLA | C3D-C2D | 3.44 | 1.48 | 1.39 |
| 12 | aB | 925 | CLA | CHD-C4C | 3.44 | 1.47 | 1.39 |
| 12 | bB | 903 | CLA | C3D-C2D | 3.44 | 1.48 | 1.39 |
| 12 | cB | 924 | CLA | C1B-NB | -3.44 | 1.32 | 1.35 |
| 12 | cB | 903 | CLA | C3D-C2D | 3.44 | 1.48 | 1.39 |
| 12 | bB | 925 | CLA | CHD-C4C | 3.43 | 1.47 | 1.39 |
| 12 | aA | 804 | CLA | CHD-C1D | 3.43 | 1.45 | 1.38 |
| 12 | cB | 905 | CLA | CHD-C4C | 3.43 | 1.47 | 1.39 |
| 12 | aB | 923 | CLA | C1D-ND | 3.43 | 1.42 | 1.37 |
| 12 | aB | 906 | CLA | CHD-C4C | 3.43 | 1.47 | 1.39 |
| 12 | bA | 831 | CLA | CHD-C4C | 3.43 | 1.47 | 1.39 |
| 12 | bB | 937 | CLA | C3D-C2D | 3.43 | 1.48 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 903 | CLA | C3D-C2D | 3.43 | 1.48 | 1.39 |
| 12 | cA | 833 | CLA | C3D-C2D | 3.43 | 1.48 | 1.39 |
| 12 | cL | 203 | CLA | CHD-C1D | 3.43 | 1.45 | 1.38 |
| 12 | cA | 804 | CLA | CHD-C1D | 3.42 | 1.45 | 1.38 |
| 12 | cA | 823 | CLA | C3D-C2D | 3.42 | 1.48 | 1.39 |
| 12 | bB | 923 | CLA | C1D-ND | 3.42 | 1.42 | 1.37 |
| 12 | aB | 909 | CLA | CHD-C4C | 3.42 | 1.47 | 1.39 |
| 12 | bA | 804 | CLA | CHD-C1D | 3.42 | 1.45 | 1.38 |
| 12 | cA | 813 | CLA | OBD-CAD | 3.42 | 1.28 | 1.22 |
| 12 | aB | 919 | CLA | C3D-C2D | 3.42 | 1.48 | 1.39 |
| 12 | aA | 823 | CLA | C3D-C2D | 3.42 | 1.48 | 1.39 |
| 12 | aA | 831 | CLA | CHD-C4C | 3.42 | 1.47 | 1.39 |
| 12 | bB | 910 | CLA | C1B-NB | -3.42 | 1.32 | 1.35 |
| 12 | aL | 203 | CLA | CHD-C1D | 3.42 | 1.45 | 1.38 |
| 12 | cB | 919 | CLA | C3D-C2D | 3.42 | 1.48 | 1.39 |
| 15 | bB | 944 | BCR | C1-C6 | -3.42 | 1.49 | 1.53 |
| 12 | aA | 813 | CLA | OBD-CAD | 3.41 | 1.28 | 1.22 |
| 12 | bB | 919 | CLA | C3D-C2D | 3.41 | 1.48 | 1.39 |
| 12 | cB | 923 | CLA | C1D-ND | 3.41 | 1.42 | 1.37 |
| 12 | bA | 821 | CLA | C1B-NB | -3.41 | 1.32 | 1.35 |
| 12 | aB | 905 | CLA | CHD-C4C | 3.41 | 1.47 | 1.39 |
| 12 | aB | 939 | CLA | CHD-C1D | 3.41 | 1.45 | 1.38 |
| 12 | bB | 911 | CLA | CHD-C4C | 3.41 | 1.47 | 1.39 |
| 12 | bA | 823 | CLA | C3D-C2D | 3.41 | 1.48 | 1.39 |
| 12 | bL | 204 | CLA | C3D-C2D | 3.41 | 1.48 | 1.39 |
| 12 | cB | 909 | CLA | CHD-C4C | 3.41 | 1.47 | 1.39 |
| 12 | bB | 926 | CLA | C1D-ND | 3.40 | 1.42 | 1.37 |
| 12 | cB | 901 | CLA | CHD-C1D | 3.40 | 1.45 | 1.38 |
| 12 | aB | 912 | CLA | CHD-C4C | 3.40 | 1.47 | 1.39 |
| 12 | bA | 833 | CLA | C3D-C2D | 3.40 | 1.48 | 1.39 |
| 12 | bA | 826 | CLA | CHD-C4C | 3.40 | 1.47 | 1.39 |
| 12 | aA | 833 | CLA | C3D-C2D | 3.40 | 1.48 | 1.39 |
| 12 | cB | 933 | CLA | CHD-C4C | 3.40 | 1.47 | 1.39 |
| 12 | cB | 911 | CLA | CHD-C4C | 3.40 | 1.47 | 1.39 |
| 12 | aA | 828 | CLA | CHD-C4C | 3.39 | 1.47 | 1.39 |
| 12 | aB | 911 | CLA | CHD-C4C | 3.39 | 1.47 | 1.39 |
| 15 | aB | 944 | BCR | C1-C6 | -3.39 | 1.49 | 1.53 |
| 12 | bB | 902 | CLA | CHD-C4C | 3.39 | 1.47 | 1.39 |
| 12 | cA | 831 | CLA | CHD-C4C | 3.39 | 1.47 | 1.39 |
| 12 | cB | 911 | CLA | OBD-CAD | 3.39 | 1.28 | 1.22 |
| 12 | aA | 821 | CLA | CHD-C4C | 3.39 | 1.47 | 1.39 |
| 12 | cA | 841 | CLA | OBD-CAD | 3.39 | 1.28 | 1.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 903 | CLA | CHD-C4C | 3.39 | 1.47 | 1.39 |
| 12 | cA | 821 | CLA | CHD-C4C | 3.39 | 1.47 | 1.39 |
| 12 | cL | 204 | CLA | C3D-C2D | 3.39 | 1.48 | 1.39 |
| 12 | bA | 853 | CLA | C1D-ND | 3.39 | 1.41 | 1.37 |
| 12 | bB | 901 | CLA | CHD-C1D | 3.39 | 1.45 | 1.38 |
| 12 | bB | 909 | CLA | CHD-C4C | 3.38 | 1.47 | 1.39 |
| 12 | bB | 933 | CLA | CHD-C4C | 3.38 | 1.47 | 1.39 |
| 12 | bA | 821 | CLA | CHD-C4C | 3.38 | 1.47 | 1.39 |
| 12 | bB | 903 | CLA | CHD-C4C | 3.38 | 1.47 | 1.39 |
| 12 | aL | 204 | CLA | C3D-C2D | 3.38 | 1.48 | 1.39 |
| 12 | cB | 939 | CLA | CHD-C1D | 3.38 | 1.45 | 1.38 |
| 12 | bB | 904 | CLA | C3D-C2D | 3.38 | 1.48 | 1.39 |
| 12 | aB | 904 | CLA | C3D-C2D | 3.38 | 1.48 | 1.39 |
| 12 | aA | 821 | CLA | C1B-NB | -3.38 | 1.32 | 1.35 |
| 12 | cB | 906 | CLA | C1B-NB | -3.38 | 1.32 | 1.35 |
| 12 | cA | 826 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 12 | aA | 807 | CLA | C3D-C2D | 3.37 | 1.48 | 1.39 |
| 12 | bL | 203 | CLA | CHD-C1D | 3.37 | 1.44 | 1.38 |
| 12 | bA | 853 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 12 | cB | 903 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 12 | cB | 902 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 13 | bA | 844 | 1L3 | C28-C26 | 3.37 | 1.58 | 1.51 |
| 12 | aA | 826 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 12 | aB | 911 | CLA | OBD-CAD | 3.37 | 1.28 | 1.22 |
| 12 | aA | 854 | CLA | CHD-C1D | 3.37 | 1.44 | 1.38 |
| 12 | cB | 912 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 12 | aB | 901 | CLA | CHD-C1D | 3.37 | 1.44 | 1.38 |
| 12 | aB | 902 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 12 | bB | 926 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 12 | aA | 841 | CLA | OBD-CAD | 3.37 | 1.28 | 1.22 |
| 12 | cB | 904 | CLA | C3D-C2D | 3.37 | 1.48 | 1.39 |
| 12 | bB | 912 | CLA | CHD-C4C | 3.37 | 1.46 | 1.39 |
| 12 | bB | 939 | CLA | CHD-C1D | 3.37 | 1.44 | 1.38 |
| 12 | cB | 926 | CLA | CHD-C1D | 3.36 | 1.44 | 1.38 |
| 12 | aB | 933 | CLA | CHD-C4C | 3.36 | 1.46 | 1.39 |
| 12 | cA | 842 | CLA | CHD-C4C | 3.36 | 1.46 | 1.39 |
| 12 | aB | 906 | CLA | C1B-NB | -3.36 | 1.32 | 1.35 |
| 11 | bA | 801 | CL0 | C1B-NB | -3.36 | 1.32 | 1.35 |
| 12 | bA | 828 | CLA | CHD-C4C | 3.36 | 1.46 | 1.39 |
| 12 | bA | 807 | CLA | C3D-C2D | 3.36 | 1.48 | 1.39 |
| 12 | cA | 807 | CLA | C3D-C2D | 3.36 | 1.48 | 1.39 |
| 13 | aA | 845 | 1L3 | C28-C26 | 3.36 | 1.58 | 1.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 830 | CLA | CHD-C4C | 3.36 | 1.46 | 1.39 |
| 12 | aA | 842 | CLA | CHD-C4C | 3.36 | 1.46 | 1.39 |
| 12 | aA | 854 | CLA | C1D-ND | 3.36 | 1.41 | 1.37 |
| 12 | cB | 901 | CLA | C1B-NB | -3.35 | 1.32 | 1.35 |
| 13 | cA | 844 | 1L3 | C28-C26 | 3.35 | 1.58 | 1.51 |
| 15 | bB | 941 | BCR | C1-C6 | -3.35 | 1.49 | 1.53 |
| 12 | aB | 924 | CLA | C1B-NB | -3.35 | 1.32 | 1.35 |
| 12 | cA | 853 | CLA | CHD-C4C | 3.35 | 1.46 | 1.39 |
| 12 | bA | 841 | CLA | CHD-C4C | 3.35 | 1.46 | 1.39 |
| 12 | cA | 853 | CLA | CHD-C1D | 3.34 | 1.44 | 1.38 |
| 12 | bB | 906 | CLA | C1B-NB | -3.34 | 1.32 | 1.35 |
| 12 | cA | 841 | CLA | CHD-C4C | 3.34 | 1.46 | 1.39 |
| 12 | bA | 814 | CLA | C1B-NB | -3.34 | 1.32 | 1.35 |
| 12 | bA | 841 | CLA | OBD-CAD | 3.34 | 1.28 | 1.22 |
| 12 | aA | 841 | CLA | CHD-C4C | 3.34 | 1.46 | 1.39 |
| 12 | aB | 926 | CLA | CHD-C4C | 3.34 | 1.46 | 1.39 |
| 12 | aA | 814 | CLA | OBD-CAD | 3.34 | 1.28 | 1.22 |
| 12 | cA | 805 | CLA | OBD-CAD | 3.34 | 1.28 | 1.22 |
| 12 | bB | 922 | CLA | CHD-C4C | 3.34 | 1.46 | 1.39 |
| 12 | bB | 911 | CLA | OBD-CAD | 3.33 | 1.28 | 1.22 |
| 12 | cA | 828 | CLA | CHD-C4C | 3.33 | 1.46 | 1.39 |
| 12 | bA | 825 | CLA | C1B-NB | -3.33 | 1.32 | 1.35 |
| 12 | cA | 817 | CLA | OBD-CAD | 3.33 | 1.28 | 1.22 |
| 12 | bB | 926 | CLA | CHD-C1D | 3.33 | 1.44 | 1.38 |
| 12 | bA | 842 | CLA | CHD-C4C | 3.33 | 1.46 | 1.39 |
| 12 | bB | 901 | CLA | C1B-NB | -3.33 | 1.32 | 1.35 |
| 12 | aB | 926 | CLA | CHD-C1D | 3.33 | 1.44 | 1.38 |
| 12 | bA | 814 | CLA | OBD-CAD | 3.33 | 1.28 | 1.22 |
| 12 | bA | 817 | CLA | OBD-CAD | 3.33 | 1.28 | 1.22 |
| 12 | cB | 926 | CLA | CHD-C4C | 3.33 | 1.46 | 1.39 |
| 12 | cA | 814 | CLA | C1B-NB | -3.33 | 1.32 | 1.35 |
| 12 | bA | 830 | CLA | CHD-C4C | 3.33 | 1.46 | 1.39 |
| 12 | cA | 830 | CLA | CHD-C4C | 3.33 | 1.46 | 1.39 |
| 12 | cB | 922 | CLA | CHD-C4C | 3.33 | 1.46 | 1.39 |
| 12 | cA | 853 | CLA | C1D-ND | 3.33 | 1.41 | 1.37 |
| 12 | cA | 825 | CLA | C1B-NB | -3.32 | 1.32 | 1.35 |
| 12 | aA | 854 | CLA | CHD-C4C | 3.32 | 1.46 | 1.39 |
| 12 | cA | 814 | CLA | OBD-CAD | 3.32 | 1.28 | 1.22 |
| 12 | bB | 932 | CLA | OBD-CAD | 3.32 | 1.28 | 1.22 |
| 12 | aA | 817 | CLA | OBD-CAD | 3.32 | 1.28 | 1.22 |
| 12 | aB | 935 | CLA | CHD-C4C | 3.31 | 1.46 | 1.39 |
| 12 | aA | 843 | CLA | CHD-C4C | 3.31 | 1.46 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 843 | CLA | CHD-C4C | 3.31 | 1.46 | 1.39 |
| 12 | aA | 814 | CLA | C1B-NB | -3.31 | 1.32 | 1.35 |
| 12 | cA | 843 | CLA | CHD-C4C | 3.31 | 1.46 | 1.39 |
| 12 | aB | 927 | CLA | C3D-C2D | 3.31 | 1.48 | 1.39 |
| 12 | aB | 910 | CLA | C1B-NB | -3.31 | 1.32 | 1.35 |
| 12 | aB | 932 | CLA | OBD-CAD | 3.31 | 1.28 | 1.22 |
| 12 | cB | 931 | CLA | OBD-CAD | 3.31 | 1.28 | 1.22 |
| 15 | cB | 941 | BCR | C1-C6 | -3.31 | 1.49 | 1.53 |
| 12 | aB | 922 | CLA | OBD-CAD | 3.30 | 1.28 | 1.22 |
| 12 | aA | 805 | CLA | OBD-CAD | 3.30 | 1.28 | 1.22 |
| 12 | aB | 935 | CLA | C3D-C2D | 3.30 | 1.48 | 1.39 |
| 12 | aB | 922 | CLA | CHD-C4C | 3.30 | 1.46 | 1.39 |
| 12 | aA | 825 | CLA | C1B-NB | -3.30 | 1.32 | 1.35 |
| 12 | bA | 820 | CLA | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 12 | cB | 922 | CLA | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 15 | aB | 941 | BCR | C1-C6 | -3.29 | 1.49 | 1.53 |
| 12 | cA | 810 | CLA | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 12 | bA | 805 | CLA | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 12 | bB | 927 | CLA | C3D-C2D | 3.29 | 1.48 | 1.39 |
| 12 | cB | 935 | CLA | CHD-C4C | 3.29 | 1.46 | 1.39 |
| 12 | cB | 939 | CLA | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 12 | bA | 853 | CLA | CHD-C1D | 3.29 | 1.44 | 1.38 |
| 12 | aA | 806 | CLA | C3D-C2D | 3.29 | 1.48 | 1.39 |
| 12 | cA | 839 | CLA | CHD-C4C | 3.29 | 1.46 | 1.39 |
| 12 | bB | 931 | CLA | OBD-CAD | 3.29 | 1.28 | 1.22 |
| 12 | bB | 922 | CLA | OBD-CAD | 3.28 | 1.28 | 1.22 |
| 12 | cA | 839 | CLA | C3D-C2D | 3.28 | 1.48 | 1.39 |
| 12 | bA | 806 | CLA | C3D-C2D | 3.28 | 1.48 | 1.39 |
| 12 | bA | 812 | CLA | OBD-CAD | 3.28 | 1.28 | 1.22 |
| 12 | cA | 812 | CLA | OBD-CAD | 3.28 | 1.28 | 1.22 |
| 12 | aB | 912 | CLA | C3D-C2D | 3.28 | 1.48 | 1.39 |
| 12 | cB | 934 | CLA | C1B-NB | -3.28 | 1.32 | 1.35 |
| 12 | bA | 839 | CLA | CHD-C4C | 3.28 | 1.46 | 1.39 |
| 12 | aB | 931 | CLA | OBD-CAD | 3.28 | 1.28 | 1.22 |
| 12 | cA | 820 | CLA | OBD-CAD | 3.27 | 1.28 | 1.22 |
| 12 | aA | 810 | CLA | OBD-CAD | 3.27 | 1.28 | 1.22 |
| 12 | cB | 932 | CLA | OBD-CAD | 3.27 | 1.28 | 1.22 |
| 12 | bB | 931 | CLA | C3D-C2D | 3.27 | 1.48 | 1.39 |
| 12 | cB | 927 | CLA | C3D-C2D | 3.27 | 1.48 | 1.39 |
| 12 | bB | 935 | CLA | C3D-C2D | 3.27 | 1.48 | 1.39 |
| 12 | cB | 902 | CLA | CHD-C1D | 3.27 | 1.44 | 1.38 |
| 12 | aA | 839 | CLA | C3D-C2D | 3.27 | 1.48 | 1.39 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 912 | CLA | C3D-C2D | 3.27 | 1.48 | 1.39 |
| 12 | bB | 935 | CLA | CHD-C4C | 3.27 | 1.46 | 1.39 |
| 12 | bB | 907 | CLA | CHD-C4C | 3.27 | 1.46 | 1.39 |
| 12 | aA | 820 | CLA | OBD-CAD | 3.27 | 1.28 | 1.22 |
| 12 | bB | 910 | CLA | OBD-CAD | 3.27 | 1.28 | 1.22 |
| 12 | bB | 905 | CLA | C3D-C2D | 3.26 | 1.48 | 1.39 |
| 12 | cB | 910 | CLA | OBD-CAD | 3.26 | 1.28 | 1.22 |
| 12 | aA | 839 | CLA | CHD-C4C | 3.26 | 1.46 | 1.39 |
| 12 | cB | 935 | CLA | C3D-C2D | 3.26 | 1.48 | 1.39 |
| 12 | cB | 931 | CLA | C3D-C2D | 3.26 | 1.48 | 1.39 |
| 12 | aB | 907 | CLA | CHD-C4C | 3.26 | 1.46 | 1.39 |
| 12 | cB | 907 | CLA | C3D-C2D | 3.26 | 1.48 | 1.39 |
| 12 | bB | 925 | CLA | C3D-C2D | 3.26 | 1.48 | 1.39 |
| 12 | cA | 823 | CLA | CHD-C4C | 3.26 | 1.46 | 1.39 |
| 12 | aB | 907 | CLA | C3D-C2D | 3.26 | 1.48 | 1.39 |
| 12 | aB | 931 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | aA | 818 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | cA | 806 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | cB | 912 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | bB | 907 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | aA | 823 | CLA | CHD-C4C | 3.25 | 1.46 | 1.39 |
| 12 | cB | 907 | CLA | CHD-C4C | 3.25 | 1.46 | 1.39 |
| 12 | bB | 939 | CLA | OBD-CAD | 3.25 | 1.28 | 1.22 |
| 12 | aB | 925 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | bA | 818 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | bA | 839 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | cA | 843 | CLA | C1B-NB | -3.25 | 1.32 | 1.35 |
| 12 | cB | 905 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | aB | 905 | CLA | C3D-C2D | 3.25 | 1.48 | 1.39 |
| 12 | aB | 910 | CLA | OBD-CAD | 3.25 | 1.28 | 1.22 |
| 12 | aB | 939 | CLA | OBD-CAD | 3.25 | 1.28 | 1.22 |
| 12 | cA | 818 | CLA | C3D-C2D | 3.24 | 1.48 | 1.39 |
| 12 | bL | 204 | CLA | OBD-CAD | 3.24 | 1.28 | 1.22 |
| 12 | cB | 925 | CLA | C3D-C2D | 3.24 | 1.48 | 1.39 |
| 12 | aB | 934 | CLA | C1B-NB | -3.24 | 1.32 | 1.35 |
| 12 | aB | 920 | CLA | OBD-CAD | 3.24 | 1.28 | 1.22 |
| 12 | bB | 920 | CLA | OBD-CAD | 3.24 | 1.28 | 1.22 |
| 12 | cA | 822 | CLA | OBD-CAD | 3.24 | 1.28 | 1.22 |
| 12 | aA | 822 | CLA | OBD-CAD | 3.24 | 1.28 | 1.22 |
| 12 | aL | 204 | CLA | OBD-CAD | 3.24 | 1.28 | 1.22 |
| 12 | bA | 822 | CLA | OBD-CAD | 3.24 | 1.28 | 1.22 |
| 12 | aB | 902 | CLA | CHD-C1D | 3.24 | 1.44 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 827 | CLA | C3D-C2D | 3.24 | 1.48 | 1.39 |
| 12 | bB | 902 | CLA | CHD-C1D | 3.24 | 1.44 | 1.38 |
| 12 | aA | 812 | CLA | OBD-CAD | 3.23 | 1.28 | 1.22 |
| 12 | bA | 810 | CLA | OBD-CAD | 3.23 | 1.28 | 1.22 |
| 11 | aA | 801 | CL0 | C1B-NB | -3.23 | 1.32 | 1.35 |
| 12 | bA | 843 | CLA | C1B-NB | -3.23 | 1.32 | 1.35 |
| 12 | aA | 837 | CLA | C3D-C2D | 3.23 | 1.47 | 1.39 |
| 12 | cB | 927 | CLA | OBD-CAD | 3.23 | 1.28 | 1.22 |
| 12 | aB | 918 | CLA | OBD-CAD | 3.22 | 1.28 | 1.22 |
| 11 | bA | 801 | CL0 | C3D-C2D | 3.22 | 1.47 | 1.39 |
| 11 | cA | 801 | CL0 | C1B-NB | -3.22 | 1.32 | 1.35 |
| 12 | bA | 823 | CLA | CHD-C4C | 3.22 | 1.46 | 1.39 |
| 12 | cB | 920 | CLA | OBD-CAD | 3.22 | 1.28 | 1.22 |
| 12 | aB | 927 | CLA | OBD-CAD | 3.21 | 1.28 | 1.22 |
| 12 | aA | 827 | CLA | C3D-C2D | 3.21 | 1.47 | 1.39 |
| 12 | cB | 923 | CLA | C3D-C2D | 3.21 | 1.47 | 1.39 |
| 12 | aB | 923 | CLA | C3D-C2D | 3.21 | 1.47 | 1.39 |
| 11 | cA | 801 | CL0 | C3D-C2D | 3.21 | 1.47 | 1.39 |
| 12 | bB | 923 | CLA | C3D-C2D | 3.20 | 1.47 | 1.39 |
| 12 | cL | 204 | CLA | OBD-CAD | 3.20 | 1.28 | 1.22 |
| 12 | cB | 915 | CLA | OBD-CAD | 3.20 | 1.28 | 1.22 |
| 12 | bA | 827 | CLA | C3D-C2D | 3.20 | 1.47 | 1.39 |
| 12 | bA | 834 | CLA | C4B-NB | -3.20 | 1.32 | 1.35 |
| 12 | cA | 834 | CLA | C4B-NB | -3.20 | 1.32 | 1.35 |
| 11 | aA | 801 | CL0 | C3D-C2D | 3.20 | 1.47 | 1.39 |
| 15 | bB | 943 | BCR | C1-C6 | -3.20 | 1.49 | 1.53 |
| 12 | cA | 811 | CLA | C1B-NB | -3.20 | 1.32 | 1.35 |
| 12 | bB | 931 | CLA | C1B-NB | -3.19 | 1.32 | 1.35 |
| 12 | cB | 918 | CLA | OBD-CAD | 3.19 | 1.28 | 1.22 |
| 12 | aB | 938 | CLA | C3D-C2D | 3.19 | 1.47 | 1.39 |
| 12 | bA | 839 | CLA | C1B-NB | -3.19 | 1.32 | 1.35 |
| 11 | bA | 801 | CL0 | CHD-C4C | 3.19 | 1.46 | 1.39 |
| 11 | cA | 801 | CL0 | CHD-C4C | 3.19 | 1.46 | 1.39 |
| 12 | bB | 924 | CLA | OBD-CAD | 3.19 | 1.28 | 1.22 |
| 12 | cA | 811 | CLA | OBD-CAD | 3.19 | 1.28 | 1.22 |
| 12 | aA | 811 | CLA | C1B-NB | -3.18 | 1.32 | 1.35 |
| 12 | aA | 843 | CLA | C1B-NB | -3.18 | 1.32 | 1.35 |
| 12 | bB | 939 | CLA | C3D-C2D | 3.18 | 1.47 | 1.39 |
| 12 | bB | 927 | CLA | OBD-CAD | 3.18 | 1.28 | 1.22 |
| 12 | cA | 837 | CLA | C3D-C2D | 3.18 | 1.47 | 1.39 |
| 12 | bA | 811 | CLA | OBD-CAD | 3.18 | 1.28 | 1.22 |
| 12 | cA | 816 | CLA | OBD-CAD | 3.18 | 1.28 | 1.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 803 | CLA | CHD-C1D | 3.18 | 1.44 | 1.38 |
| 12 | bA | 803 | CLA | CHD-C1D | 3.18 | 1.44 | 1.38 |
| 12 | bB | 918 | CLA | OBD-CAD | 3.17 | 1.27 | 1.22 |
| 12 | aA | 811 | CLA | OBD-CAD | 3.17 | 1.27 | 1.22 |
| 12 | cB | 938 | CLA | C3D-C2D | 3.17 | 1.47 | 1.39 |
| 12 | bB | 938 | CLA | C3D-C2D | 3.17 | 1.47 | 1.39 |
| 12 | aA | 803 | CLA | CHD-C1D | 3.17 | 1.44 | 1.38 |
| 11 | aA | 801 | CL0 | CHD-C4C | 3.17 | 1.46 | 1.39 |
| 12 | aB | 915 | CLA | OBD-CAD | 3.17 | 1.27 | 1.22 |
| 15 | cB | 943 | BCR | C1-C6 | -3.17 | 1.49 | 1.53 |
| 12 | aL | 203 | CLA | C1B-NB | -3.17 | 1.32 | 1.35 |
| 12 | cB | 924 | CLA | OBD-CAD | 3.17 | 1.27 | 1.22 |
| 12 | cL | 203 | CLA | C1B-NB | -3.17 | 1.32 | 1.35 |
| 12 | bA | 837 | CLA | C3D-C2D | 3.17 | 1.47 | 1.39 |
| 12 | bB | 934 | CLA | C1B-NB | -3.16 | 1.32 | 1.35 |
| 12 | aB | 939 | CLA | C3D-C2D | 3.16 | 1.47 | 1.39 |
| 12 | aA | 833 | CLA | C1B-NB | -3.16 | 1.32 | 1.35 |
| 12 | bB | 915 | CLA | OBD-CAD | 3.16 | 1.27 | 1.22 |
| 12 | cB | 949 | CLA | C3A-C2A | -3.16 | 1.51 | 1.54 |
| 12 | cA | 833 | CLA | C1B-NB | -3.16 | 1.32 | 1.35 |
| 12 | aB | 924 | CLA | OBD-CAD | 3.16 | 1.27 | 1.22 |
| 12 | cB | 939 | CLA | CHD-C4C | 3.16 | 1.46 | 1.39 |
| 12 | bA | 816 | CLA | OBD-CAD | 3.15 | 1.27 | 1.22 |
| 12 | bA | 808 | CLA | OBD-CAD | 3.15 | 1.27 | 1.22 |
| 12 | bB | 950 | CLA | OBD-CAD | 3.15 | 1.27 | 1.22 |
| 12 | aA | 834 | CLA | C4B-NB | -3.15 | 1.32 | 1.35 |
| 12 | cA | 808 | CLA | OBD-CAD | 3.15 | 1.27 | 1.22 |
| 12 | bA | 840 | CLA | OBD-CAD | 3.15 | 1.27 | 1.22 |
| 12 | cB | 930 | CLA | OBD-CAD | 3.14 | 1.27 | 1.22 |
| 12 | aA | 816 | CLA | OBD-CAD | 3.14 | 1.27 | 1.22 |
| 12 | bL | 203 | CLA | OBD-CAD | 3.14 | 1.27 | 1.22 |
| 12 | aA | 835 | CLA | OBD-CAD | 3.14 | 1.27 | 1.22 |
| 12 | bA | 835 | CLA | OBD-CAD | 3.14 | 1.27 | 1.22 |
| 12 | cB | 927 | CLA | C4B-NB | -3.14 | 1.32 | 1.35 |
| 12 | bB | 949 | CLA | C3A-C2A | -3.14 | 1.51 | 1.54 |
| 12 | cB | 931 | CLA | C1B-NB | -3.14 | 1.32 | 1.35 |
| 12 | aA | 839 | CLA | C1B-NB | -3.14 | 1.32 | 1.35 |
| 12 | bB | 903 | CLA | OBD-CAD | 3.13 | 1.27 | 1.22 |
| 15 | aB | 943 | BCR | C1-C6 | -3.13 | 1.49 | 1.53 |
| 12 | aA | 815 | CLA | OBD-CAD | 3.13 | 1.27 | 1.22 |
| 12 | cB | 903 | CLA | OBD-CAD | 3.13 | 1.27 | 1.22 |
| 12 | cL | 203 | CLA | OBD-CAD | 3.13 | 1.27 | 1.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 939 | CLA | CHD-C4C | 3.13 | 1.46 | 1.39 |
| 12 | aB | 922 | CLA | C3D-C2D | 3.13 | 1.47 | 1.39 |
| 12 | bB | 914 | CLA | OBD-CAD | 3.13 | 1.27 | 1.22 |
| 12 | cB | 939 | CLA | C3D-C2D | 3.13 | 1.47 | 1.39 |
| 12 | aA | 807 | CLA | C1B-NB | -3.13 | 1.32 | 1.35 |
| 12 | bB | 906 | CLA | OBD-CAD | 3.13 | 1.27 | 1.22 |
| 12 | cA | 835 | CLA | OBD-CAD | 3.13 | 1.27 | 1.22 |
| 12 | aB | 931 | CLA | CHD-C1D | 3.13 | 1.44 | 1.38 |
| 12 | aL | 203 | CLA | OBD-CAD | 3.13 | 1.27 | 1.22 |
| 12 | aB | 939 | CLA | CHD-C4C | 3.12 | 1.46 | 1.39 |
| 12 | bA | 815 | CLA | OBD-CAD | 3.12 | 1.27 | 1.22 |
| 12 | aB | 931 | CLA | C1B-NB | -3.12 | 1.32 | 1.35 |
| 12 | bB | 930 | CLA | OBD-CAD | 3.12 | 1.27 | 1.22 |
| 12 | aA | 808 | CLA | OBD-CAD | 3.12 | 1.27 | 1.22 |
| 12 | bA | 821 | CLA | OBD-CAD | 3.12 | 1.27 | 1.22 |
| 12 | cA | 809 | CLA | OBD-CAD | 3.12 | 1.27 | 1.22 |
| 12 | aB | 949 | CLA | C3A-C2A | -3.12 | 1.51 | 1.54 |
| 12 | bA | 807 | CLA | C1B-NB | -3.12 | 1.32 | 1.35 |
| 12 | aB | 903 | CLA | OBD-CAD | 3.12 | 1.27 | 1.22 |
| 12 | cB | 922 | CLA | C3D-C2D | 3.12 | 1.47 | 1.39 |
| 12 | aB | 930 | CLA | OBD-CAD | 3.12 | 1.27 | 1.22 |
| 12 | cA | 829 | CLA | C1B-NB | -3.12 | 1.32 | 1.35 |
| 12 | aA | 842 | CLA | OBD-CAD | 3.12 | 1.27 | 1.22 |
| 12 | bB | 922 | CLA | C3D-C2D | 3.11 | 1.47 | 1.39 |
| 12 | aA | 840 | CLA | OBD-CAD | 3.11 | 1.27 | 1.22 |
| 12 | cA | 815 | CLA | OBD-CAD | 3.11 | 1.27 | 1.22 |
| 12 | bA | 831 | CLA | C1B-NB | -3.11 | 1.32 | 1.35 |
| 12 | bA | 833 | CLA | C1B-NB | -3.11 | 1.32 | 1.35 |
| 12 | bL | 203 | CLA | C1B-NB | -3.11 | 1.32 | 1.35 |
| 12 | cB | 927 | CLA | C1D-ND | 3.10 | 1.41 | 1.37 |
| 12 | bA | 811 | CLA | C1B-NB | -3.10 | 1.32 | 1.35 |
| 12 | cB | 906 | CLA | OBD-CAD | 3.10 | 1.27 | 1.22 |
| 12 | cA | 821 | CLA | OBD-CAD | 3.10 | 1.27 | 1.22 |
| 12 | cB | 931 | CLA | CHD-C1D | 3.10 | 1.44 | 1.38 |
| 12 | cB | 914 | CLA | OBD-CAD | 3.10 | 1.27 | 1.22 |
| 12 | aB | 927 | CLA | C4B-NB | -3.10 | 1.32 | 1.35 |
| 12 | bB | 931 | CLA | CHD-C1D | 3.10 | 1.44 | 1.38 |
| 12 | cA | 842 | CLA | OBD-CAD | 3.09 | 1.27 | 1.22 |
| 12 | aB | 914 | CLA | OBD-CAD | 3.09 | 1.27 | 1.22 |
| 12 | aB | 906 | CLA | OBD-CAD | 3.09 | 1.27 | 1.22 |
| 12 | cA | 807 | CLA | C1B-NB | -3.09 | 1.32 | 1.35 |
| 12 | aB | 950 | CLA | OBD-CAD | 3.09 | 1.27 | 1.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 809 | CLA | OBD-CAD | 3.09 | 1.27 | 1.22 |
| 12 | bA | 829 | CLA | C1B-NB | -3.09 | 1.32 | 1.35 |
| 12 | aA | 844 | CLA | OBD-CAD | 3.09 | 1.27 | 1.22 |
| 12 | cA | 840 | CLA | OBD-CAD | 3.08 | 1.27 | 1.22 |
| 12 | aA | 821 | CLA | OBD-CAD | 3.08 | 1.27 | 1.22 |
| 12 | aB | 933 | CLA | OBD-CAD | 3.08 | 1.27 | 1.22 |
| 12 | bB | 925 | CLA | C1B-NB | -3.08 | 1.32 | 1.35 |
| 12 | bB | 929 | CLA | OBD-CAD | 3.08 | 1.27 | 1.22 |
| 12 | bA | 842 | CLA | OBD-CAD | 3.08 | 1.27 | 1.22 |
| 12 | bB | 933 | CLA | OBD-CAD | 3.08 | 1.27 | 1.22 |
| 12 | cB | 902 | CLA | OBD-CAD | 3.08 | 1.27 | 1.22 |
| 12 | bB | 928 | CLA | C3D-C2D | 3.08 | 1.47 | 1.39 |
| 12 | bB | 930 | CLA | C1B-NB | -3.08 | 1.32 | 1.35 |
| 12 | aA | 826 | CLA | OBD-CAD | 3.08 | 1.27 | 1.22 |
| 12 | bB | 927 | CLA | C4B-NB | -3.07 | 1.32 | 1.35 |
| 12 | aA | 825 | CLA | OBD-CAD | 3.07 | 1.27 | 1.22 |
| 12 | aA | 804 | CLA | OBD-CAD | 3.07 | 1.27 | 1.22 |
| 12 | cA | 825 | CLA | OBD-CAD | 3.07 | 1.27 | 1.22 |
| 12 | cB | 933 | CLA | OBD-CAD | 3.07 | 1.27 | 1.22 |
| 12 | aB | 929 | CLA | OBD-CAD | 3.07 | 1.27 | 1.22 |
| 15 | cA | 849 | BCR | C1-C6 | -3.07 | 1.49 | 1.53 |
| 12 | bA | 826 | CLA | OBD-CAD | 3.06 | 1.27 | 1.22 |
| 15 | bL | 201 | BCR | C1-C6 | -3.06 | 1.49 | 1.53 |
| 12 | cB | 929 | CLA | OBD-CAD | 3.06 | 1.27 | 1.22 |
| 12 | bA | 825 | CLA | OBD-CAD | 3.06 | 1.27 | 1.22 |
| 15 | aL | 201 | BCR | C1-C6 | -3.06 | 1.49 | 1.53 |
| 12 | cB | 928 | CLA | C3D-C2D | 3.06 | 1.47 | 1.39 |
| 12 | cA | 826 | CLA | OBD-CAD | 3.06 | 1.27 | 1.22 |
| 12 | aB | 902 | CLA | C1B-NB | -3.06 | 1.32 | 1.35 |
| 12 | cA | 839 | CLA | C1B-NB | -3.05 | 1.32 | 1.35 |
| 13 | aB | 940 | 1L3 | O13-C12 | -3.05 | 1.16 | 1.23 |
| 12 | aA | 809 | CLA | OBD-CAD | 3.05 | 1.27 | 1.22 |
| 12 | aB | 928 | CLA | C3D-C2D | 3.05 | 1.47 | 1.39 |
| 12 | cA | 804 | CLA | OBD-CAD | 3.05 | 1.27 | 1.22 |
| 12 | aB | 902 | CLA | OBD-CAD | 3.04 | 1.27 | 1.22 |
| 12 | bA | 804 | CLA | OBD-CAD | 3.04 | 1.27 | 1.22 |
| 12 | aB | 925 | CLA | C1B-NB | -3.04 | 1.32 | 1.35 |
| 12 | cB | 930 | CLA | C1B-NB | -3.04 | 1.32 | 1.35 |
| 15 | bA | 849 | BCR | C1-C6 | -3.04 | 1.49 | 1.53 |
| 12 | aA | 831 | CLA | C1B-NB | -3.03 | 1.32 | 1.35 |
| 12 | bB | 913 | CLA | C1B-NB | -3.03 | 1.32 | 1.35 |
| 12 | aB | 927 | CLA | C1D-ND | 3.03 | 1.41 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 818 | CLA | OBD-CAD | 3.03 | 1.27 | 1.22 |
| 12 | aA | 803 | CLA | OBD-CAD | 3.03 | 1.27 | 1.22 |
| 13 | bB | 940 | 1L3 | O13-C12 | -3.03 | 1.16 | 1.23 |
| 12 | bB | 927 | CLA | C1D-ND | 3.03 | 1.41 | 1.37 |
| 12 | bB | 902 | CLA | OBD-CAD | 3.02 | 1.27 | 1.22 |
| 12 | bA | 803 | CLA | OBD-CAD | 3.02 | 1.27 | 1.22 |
| 12 | cB | 901 | CLA | C3D-C2D | 3.02 | 1.47 | 1.39 |
| 11 | cA | 801 | CL0 | C1D-ND | 3.02 | 1.41 | 1.37 |
| 12 | bB | 901 | CLA | C3D-C2D | 3.02 | 1.47 | 1.39 |
| 12 | cB | 921 | CLA | OBD-CAD | 3.01 | 1.27 | 1.22 |
| 12 | bA | 823 | CLA | OBD-CAD | 3.01 | 1.27 | 1.22 |
| 12 | cA | 803 | CLA | OBD-CAD | 3.01 | 1.27 | 1.22 |
| 12 | cB | 913 | CLA | C1B-NB | -3.01 | 1.32 | 1.35 |
| 13 | cB | 940 | 1L3 | O13-C12 | -3.01 | 1.16 | 1.23 |
| 12 | cA | 831 | CLA | C1B-NB | -3.01 | 1.32 | 1.35 |
| 12 | aB | 928 | CLA | OBD-CAD | 3.01 | 1.27 | 1.22 |
| 12 | aB | 921 | CLA | OBD-CAD | 3.01 | 1.27 | 1.22 |
| 12 | cA | 824 | CLA | OBD-CAD | 3.01 | 1.27 | 1.22 |
| 15 | aA | 847 | BCR | C1-C6 | -3.01 | 1.49 | 1.53 |
| 12 | aB | 901 | CLA | C3D-C2D | 3.01 | 1.47 | 1.39 |
| 12 | bA | 818 | CLA | OBD-CAD | 3.01 | 1.27 | 1.22 |
| 12 | aB | 901 | CLA | CHD-C4C | 3.01 | 1.46 | 1.39 |
| 12 | bB | 919 | CLA | OBD-CAD | 3.00 | 1.27 | 1.22 |
| 12 | aA | 834 | CLA | C1B-NB | -3.00 | 1.32 | 1.35 |
| 12 | bB | 921 | CLA | OBD-CAD | 3.00 | 1.27 | 1.22 |
| 12 | aB | 930 | CLA | C1B-NB | -3.00 | 1.32 | 1.35 |
| 12 | bB | 950 | CLA | C1B-NB | -3.00 | 1.32 | 1.35 |
| 15 | aA | 850 | BCR | C1-C6 | -3.00 | 1.49 | 1.53 |
| 15 | cL | 201 | BCR | C1-C6 | -3.00 | 1.49 | 1.53 |
| 11 | aA | 801 | CL0 | C1D-ND | 3.00 | 1.41 | 1.37 |
| 12 | bB | 928 | CLA | OBD-CAD | 3.00 | 1.27 | 1.22 |
| 12 | bA | 822 | CLA | C1B-NB | -2.99 | 1.32 | 1.35 |
| 12 | bB | 902 | CLA | C1B-NB | -2.99 | 1.32 | 1.35 |
| 15 | bA | 846 | BCR | C1-C6 | -2.99 | 1.49 | 1.53 |
| 11 | bA | 801 | CL0 | C1D-ND | 2.99 | 1.41 | 1.37 |
| 12 | cA | 853 | CLA | C1B-NB | -2.99 | 1.32 | 1.35 |
| 12 | bA | 824 | CLA | OBD-CAD | 2.99 | 1.27 | 1.22 |
| 12 | cB | 901 | CLA | CHD-C4C | 2.99 | 1.46 | 1.39 |
| 12 | cA | 822 | CLA | C1B-NB | -2.99 | 1.32 | 1.35 |
| 12 | aA | 829 | CLA | C1B-NB | -2.99 | 1.32 | 1.35 |
| 15 | cA | 846 | BCR | C1-C6 | -2.99 | 1.49 | 1.53 |
| 12 | bB | 916 | CLA | OBD-CAD | 2.99 | 1.27 | 1.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 818 | CLA | OBD-CAD | 2.99 | 1.27 | 1.22 |
| 12 | aB | 919 | CLA | OBD-CAD | 2.98 | 1.27 | 1.22 |
| 12 | aB | 909 | CLA | C1B-NB | -2.98 | 1.32 | 1.35 |
| 15 | cA | 849 | BCR | C30-C25 | -2.98 | 1.49 | 1.53 |
| 12 | aB | 950 | CLA | C1B-NB | -2.98 | 1.32 | 1.35 |
| 12 | aA | 806 | CLA | OBD-CAD | 2.98 | 1.27 | 1.22 |
| 12 | cB | 902 | CLA | C1B-NB | -2.98 | 1.32 | 1.35 |
| 12 | cA | 823 | CLA | OBD-CAD | 2.98 | 1.27 | 1.22 |
| 12 | aB | 938 | CLA | C1B-NB | -2.98 | 1.32 | 1.35 |
| 12 | cB | 922 | CLA | C1B-NB | -2.98 | 1.32 | 1.35 |
| 12 | cB | 928 | CLA | OBD-CAD | 2.98 | 1.27 | 1.22 |
| 12 | cB | 919 | CLA | OBD-CAD | 2.98 | 1.27 | 1.22 |
| 15 | cJ | 101 | BCR | C1-C6 | -2.97 | 1.49 | 1.53 |
| 12 | aA | 822 | CLA | C1B-NB | -2.97 | 1.32 | 1.35 |
| 12 | aA | 823 | CLA | OBD-CAD | 2.97 | 1.27 | 1.22 |
| 12 | aA | 824 | CLA | OBD-CAD | 2.97 | 1.27 | 1.22 |
| 12 | bB | 909 | CLA | C1B-NB | -2.97 | 1.32 | 1.35 |
| 12 | aB | 922 | CLA | C1B-NB | -2.96 | 1.32 | 1.35 |
| 15 | bA | 848 | BCR | C1-C6 | -2.96 | 1.49 | 1.53 |
| 12 | bB | 901 | CLA | CHD-C4C | 2.96 | 1.46 | 1.39 |
| 12 | aB | 938 | CLA | OBD-CAD | 2.95 | 1.27 | 1.22 |
| 12 | aB | 916 | CLA | OBD-CAD | 2.95 | 1.27 | 1.22 |
| 12 | bA | 834 | CLA | C1B-NB | -2.95 | 1.32 | 1.35 |
| 12 | bB | 938 | CLA | OBD-CAD | 2.95 | 1.27 | 1.22 |
| 12 | cB | 925 | CLA | C1B-NB | -2.94 | 1.32 | 1.35 |
| 12 | cB | 916 | CLA | OBD-CAD | 2.94 | 1.27 | 1.22 |
| 12 | aA | 838 | CLA | C1B-NB | -2.94 | 1.32 | 1.35 |
| 12 | aB | 902 | CLA | C1C-NC | -2.94 | 1.33 | 1.37 |
| 12 | cB | 938 | CLA | OBD-CAD | 2.94 | 1.27 | 1.22 |
| 12 | bB | 901 | CLA | OBD-CAD | 2.93 | 1.27 | 1.22 |
| 15 | aA | 850 | BCR | C30-C25 | -2.93 | 1.49 | 1.53 |
| 12 | aA | 844 | CLA | C1B-NB | -2.93 | 1.32 | 1.35 |
| 12 | bA | 830 | CLA | OBD-CAD | 2.93 | 1.27 | 1.22 |
| 15 | bJ | 101 | BCR | C1-C6 | -2.93 | 1.49 | 1.53 |
| 12 | aA | 854 | CLA | C1B-NB | -2.93 | 1.32 | 1.35 |
| 12 | bA | 853 | CLA | C1B-NB | -2.93 | 1.32 | 1.35 |
| 12 | bB | 902 | CLA | C1C-NC | -2.92 | 1.33 | 1.37 |
| 12 | cB | 909 | CLA | C1B-NB | -2.92 | 1.32 | 1.35 |
| 12 | cB | 902 | CLA | C1C-NC | -2.92 | 1.33 | 1.37 |
| 15 | bA | 849 | BCR | C30-C25 | -2.92 | 1.49 | 1.53 |
| 12 | cA | 830 | CLA | OBD-CAD | 2.91 | 1.27 | 1.22 |
| 15 | aJ | 101 | BCR | C1-C6 | -2.91 | 1.49 | 1.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 933 | CLA | C1B-NB | -2.91 | 1.32 | 1.35 |
| 12 | bA | 806 | CLA | OBD-CAD | 2.91 | 1.27 | 1.22 |
| 12 | cB | 912 | CLA | OBD-CAD | 2.91 | 1.27 | 1.22 |
| 12 | bB | 917 | CLA | OBD-CAD | 2.90 | 1.27 | 1.22 |
| 12 | cA | 806 | CLA | OBD-CAD | 2.90 | 1.27 | 1.22 |
| 12 | aB | 913 | CLA | C1B-NB | -2.90 | 1.32 | 1.35 |
| 12 | bB | 938 | CLA | C1B-NB | -2.90 | 1.32 | 1.35 |
| 12 | cB | 917 | CLA | OBD-CAD | 2.90 | 1.27 | 1.22 |
| 12 | bB | 933 | CLA | C1B-NB | -2.90 | 1.32 | 1.35 |
| 12 | cA | 813 | CLA | C1B-NB | -2.90 | 1.32 | 1.35 |
| 12 | bA | 813 | CLA | C1B-NB | -2.89 | 1.32 | 1.35 |
| 12 | aB | 901 | CLA | OBD-CAD | 2.89 | 1.27 | 1.22 |
| 15 | cA | 848 | BCR | C1-C6 | -2.89 | 1.49 | 1.53 |
| 15 | cM | 101 | BCR | C1-C6 | -2.89 | 1.49 | 1.53 |
| 15 | aM | 101 | BCR | C1-C6 | -2.89 | 1.49 | 1.53 |
| 12 | aA | 830 | CLA | OBD-CAD | 2.89 | 1.27 | 1.22 |
| 12 | bB | 937 | CLA | C1B-NB | -2.89 | 1.32 | 1.35 |
| 12 | aB | 917 | CLA | OBD-CAD | 2.89 | 1.27 | 1.22 |
| 12 | aB | 937 | CLA | C1B-NB | -2.88 | 1.32 | 1.35 |
| 15 | bF | 203 | BCR | C1-C6 | -2.88 | 1.49 | 1.53 |
| 12 | cB | 901 | CLA | OBD-CAD | 2.88 | 1.27 | 1.22 |
| 12 | cA | 834 | CLA | C1B-NB | -2.88 | 1.32 | 1.35 |
| 12 | cB | 937 | CLA | C1B-NB | -2.88 | 1.32 | 1.35 |
| 12 | cB | 938 | CLA | C1B-NB | -2.88 | 1.32 | 1.35 |
| 12 | bA | 838 | CLA | C1B-NB | -2.88 | 1.32 | 1.35 |
| 12 | cA | 838 | CLA | C1B-NB | -2.88 | 1.32 | 1.35 |
| 11 | cA | 801 | CL0 | C4B-NB | -2.87 | 1.32 | 1.35 |
| 15 | aF | 203 | BCR | C1-C6 | -2.87 | 1.49 | 1.53 |
| 12 | aB | 912 | CLA | OBD-CAD | 2.87 | 1.27 | 1.22 |
| 12 | bA | 824 | CLA | C1B-NB | -2.87 | 1.32 | 1.35 |
| 15 | aA | 849 | BCR | C1-C6 | -2.86 | 1.49 | 1.53 |
| 12 | aA | 829 | CLA | C4B-NB | -2.86 | 1.32 | 1.35 |
| 12 | bB | 922 | CLA | C1B-NB | -2.86 | 1.32 | 1.35 |
| 11 | aA | 801 | CL0 | C4B-NB | -2.86 | 1.32 | 1.35 |
| 12 | aB | 935 | CLA | C3D-C4D | -2.86 | 1.37 | 1.44 |
| 12 | bB | 912 | CLA | OBD-CAD | 2.86 | 1.27 | 1.22 |
| 12 | bB | 925 | CLA | C3D-C4D | -2.85 | 1.37 | 1.44 |
| 12 | aA | 813 | CLA | C1B-NB | -2.85 | 1.32 | 1.35 |
| 13 | bB | 940 | 1L3 | C22-C21 | 2.85 | 1.58 | 1.50 |
| 13 | aB | 940 | 1L3 | C22-C21 | 2.85 | 1.58 | 1.50 |
| 12 | bB | 935 | CLA | C3D-C4D | -2.84 | 1.37 | 1.44 |
| 12 | aB | 925 | CLA | C3D-C4D | -2.84 | 1.37 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aL | 202 | CLA | C1B-NB | -2.84 | 1.32 | 1.35 |
| 12 | cA | 820 | CLA | C1B-NB | -2.84 | 1.32 | 1.35 |
| 12 | cB | 935 | CLA | C3D-C4D | -2.84 | 1.37 | 1.44 |
| 11 | bA | 801 | CL0 | C4B-NB | -2.83 | 1.32 | 1.35 |
| 12 | bB | 904 | CLA | OBD-CAD | 2.83 | 1.27 | 1.22 |
| 12 | aA | 834 | CLA | OBD-CAD | 2.83 | 1.27 | 1.22 |
| 15 | cF | 203 | BCR | C1-C6 | -2.82 | 1.49 | 1.53 |
| 12 | aB | 904 | CLA | OBD-CAD | 2.82 | 1.27 | 1.22 |
| 12 | bB | 907 | CLA | OBD-CAD | 2.82 | 1.27 | 1.22 |
| 12 | bA | 820 | CLA | C1B-NB | -2.82 | 1.32 | 1.35 |
| 12 | aB | 907 | CLA | OBD-CAD | 2.81 | 1.27 | 1.22 |
| 12 | cB | 925 | CLA | C3D-C4D | -2.81 | 1.37 | 1.44 |
| 13 | cB | 940 | 1L3 | C22-C21 | 2.81 | 1.57 | 1.50 |
| 12 | cB | 907 | CLA | OBD-CAD | 2.81 | 1.27 | 1.22 |
| 12 | cL | 202 | CLA | C1B-NB | -2.81 | 1.32 | 1.35 |
| 12 | cA | 834 | CLA | OBD-CAD | 2.81 | 1.27 | 1.22 |
| 15 | bM | 101 | BCR | C1-C6 | -2.81 | 1.49 | 1.53 |
| 12 | bL | 202 | CLA | C1B-NB | -2.81 | 1.32 | 1.35 |
| 12 | bB | 926 | CLA | OBD-CAD | 2.80 | 1.27 | 1.22 |
| 12 | aB | 916 | CLA | C1B-NB | -2.80 | 1.32 | 1.35 |
| 12 | cB | 926 | CLA | OBD-CAD | 2.80 | 1.27 | 1.22 |
| 15 | cA | 848 | BCR | C30-C25 | -2.80 | 1.49 | 1.53 |
| 12 | cB | 904 | CLA | OBD-CAD | 2.80 | 1.27 | 1.22 |
| 12 | bB | 904 | CLA | C4B-NB | -2.80 | 1.32 | 1.35 |
| 12 | bL | 204 | CLA | C1B-NB | -2.80 | 1.32 | 1.35 |
| 12 | bB | 939 | CLA | C1B-NB | -2.79 | 1.32 | 1.35 |
| 12 | aB | 933 | CLA | C1B-NB | -2.79 | 1.32 | 1.35 |
| 12 | aB | 904 | CLA | C4B-NB | -2.79 | 1.32 | 1.35 |
| 12 | bB | 916 | CLA | C1B-NB | -2.79 | 1.32 | 1.35 |
| 12 | aB | 926 | CLA | OBD-CAD | 2.78 | 1.27 | 1.22 |
| 15 | aA | 849 | BCR | C30-C25 | -2.78 | 1.49 | 1.53 |
| 12 | bB | 901 | CLA | C1C-NC | -2.78 | 1.33 | 1.37 |
| 12 | aA | 824 | CLA | C1B-NB | -2.78 | 1.32 | 1.35 |
| 12 | bA | 834 | CLA | OBD-CAD | 2.77 | 1.27 | 1.22 |
| 12 | cA | 824 | CLA | C1B-NB | -2.77 | 1.32 | 1.35 |
| 12 | cB | 904 | CLA | C4B-NB | -2.77 | 1.32 | 1.35 |
| 12 | cA | 842 | CLA | C1B-NB | -2.76 | 1.32 | 1.35 |
| 15 | aL | 201 | BCR | C30-C25 | -2.76 | 1.50 | 1.53 |
| 12 | aB | 901 | CLA | C1C-NC | -2.76 | 1.33 | 1.37 |
| 12 | cB | 901 | CLA | C1C-NC | -2.76 | 1.33 | 1.37 |
| 12 | bA | 829 | CLA | C4B-NB | -2.76 | 1.32 | 1.35 |
| 15 | cL | 201 | BCR | C30-C25 | -2.76 | 1.50 | 1.53 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 911 | CLA | C1B-NB | -2.76 | 1.32 | 1.35 |
| 12 | bA | 807 | CLA | C4D-CHA | 2.76 | 1.48 | 1.38 |
| 11 | cA | 801 | CL0 | OBD-CAD | 2.76 | 1.27 | 1.22 |
| 12 | bB | 905 | CLA | C1B-NB | -2.76 | 1.32 | 1.35 |
| 12 | cB | 939 | CLA | C1B-NB | -2.76 | 1.32 | 1.35 |
| 12 | cB | 911 | CLA | C1B-NB | -2.75 | 1.32 | 1.35 |
| 12 | aB | 905 | CLA | C1B-NB | -2.75 | 1.32 | 1.35 |
| 12 | aB | 903 | CLA | C1B-NB | -2.75 | 1.32 | 1.35 |
| 11 | bA | 801 | CL0 | OBD-CAD | 2.75 | 1.27 | 1.22 |
| 12 | cA | 807 | CLA | C4D-CHA | 2.75 | 1.48 | 1.38 |
| 12 | cA | 810 | CLA | C4B-NB | -2.75 | 1.32 | 1.35 |
| 12 | cA | 827 | CLA | C1B-NB | -2.75 | 1.32 | 1.35 |
| 11 | bA | 801 | CL0 | C3D-C4D | -2.75 | 1.38 | 1.44 |
| 12 | cA | 831 | CLA | OBD-CAD | 2.75 | 1.27 | 1.22 |
| 12 | cB | 913 | CLA | OBD-CAD | 2.75 | 1.27 | 1.22 |
| 12 | bB | 913 | CLA | OBD-CAD | 2.74 | 1.27 | 1.22 |
| 12 | aA | 807 | CLA | C4D-CHA | 2.74 | 1.48 | 1.38 |
| 15 | bA | 848 | BCR | C30-C25 | -2.74 | 1.50 | 1.53 |
| 12 | bA | 827 | CLA | C1B-NB | -2.74 | 1.32 | 1.35 |
| 12 | cB | 921 | CLA | C1B-NB | -2.74 | 1.32 | 1.35 |
| 12 | aA | 828 | CLA | OBD-CAD | 2.74 | 1.27 | 1.22 |
| 15 | bL | 201 | BCR | C30-C25 | -2.74 | 1.50 | 1.53 |
| 12 | cB | 905 | CLA | C1B-NB | -2.74 | 1.32 | 1.35 |
| 12 | aA | 827 | CLA | C1B-NB | -2.74 | 1.32 | 1.35 |
| 12 | cA | 828 | CLA | C4B-NB | -2.74 | 1.32 | 1.35 |
| 12 | cA | 828 | CLA | OBD-CAD | 2.74 | 1.27 | 1.22 |
| 12 | aA | 810 | CLA | C4B-NB | -2.74 | 1.32 | 1.35 |
| 12 | bB | 921 | CLA | C3D-C4D | -2.73 | 1.38 | 1.44 |
| 12 | bA | 843 | CLA | OBD-CAD | 2.73 | 1.27 | 1.22 |
| 12 | bB | 903 | CLA | C1B-NB | -2.73 | 1.32 | 1.35 |
| 12 | aB | 928 | CLA | C3D-C4D | -2.73 | 1.38 | 1.44 |
| 12 | bA | 831 | CLA | C3D-C4D | -2.73 | 1.38 | 1.44 |
| 12 | cB | 916 | CLA | C1B-NB | -2.73 | 1.32 | 1.35 |
| 12 | aA | 828 | CLA | C4B-NB | -2.73 | 1.32 | 1.35 |
| 11 | aA | 801 | CL0 | OBD-CAD | 2.73 | 1.27 | 1.22 |
| 12 | aB | 934 | CLA | C4D-CHA | 2.73 | 1.48 | 1.38 |
| 12 | cA | 827 | CLA | C3D-C4D | -2.73 | 1.38 | 1.44 |
| 12 | cB | 909 | CLA | C1C-NC | -2.73 | 1.33 | 1.37 |
| 11 | cA | 801 | CL0 | C3D-C4D | -2.73 | 1.38 | 1.44 |
| 12 | cA | 831 | CLA | C3D-C4D | -2.73 | 1.38 | 1.44 |
| 12 | aA | 820 | CLA | C1B-NB | -2.73 | 1.32 | 1.35 |
| 12 | bB | 921 | CLA | C1B-NB | -2.73 | 1.32 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 903 | CLA | C1B-NB | -2.73 | 1.32 | 1.35 |
| 12 | bA | 810 | CLA | C4B-NB | -2.72 | 1.32 | 1.35 |
| 12 | bA | 828 | CLA | OBD-CAD | 2.72 | 1.27 | 1.22 |
| 12 | cA | 843 | CLA | OBD-CAD | 2.72 | 1.27 | 1.22 |
| 12 | cA | 819 | CLA | C3D-C4D | -2.72 | 1.38 | 1.44 |
| 12 | bB | 934 | CLA | C4D-CHA | 2.72 | 1.48 | 1.38 |
| 12 | cB | 934 | CLA | C4D-CHA | 2.72 | 1.48 | 1.38 |
| 12 | aA | 843 | CLA | OBD-CAD | 2.72 | 1.27 | 1.22 |
| 12 | aA | 831 | CLA | C3D-C4D | -2.72 | 1.38 | 1.44 |
| 12 | cA | 829 | CLA | C4B-NB | -2.72 | 1.32 | 1.35 |
| 12 | cA | 837 | CLA | C4B-NB | -2.72 | 1.32 | 1.35 |
| 12 | cB | 921 | CLA | C3D-C4D | -2.72 | 1.38 | 1.44 |
| 12 | bB | 935 | CLA | OBD-CAD | 2.72 | 1.27 | 1.22 |
| 12 | aA | 827 | CLA | C3D-C4D | -2.72 | 1.38 | 1.44 |
| 12 | aA | 839 | CLA | C1C-NC | -2.71 | 1.33 | 1.37 |
| 12 | aB | 911 | CLA | C1B-NB | -2.71 | 1.32 | 1.35 |
| 12 | aA | 837 | CLA | C4B-NB | -2.71 | 1.32 | 1.35 |
| 12 | bB | 919 | CLA | C4D-CHA | 2.71 | 1.48 | 1.38 |
| 12 | aA | 833 | CLA | OBD-CAD | 2.71 | 1.27 | 1.22 |
| 12 | bB | 928 | CLA | C3D-C4D | -2.71 | 1.38 | 1.44 |
| 12 | bA | 827 | CLA | OBD-CAD | 2.71 | 1.27 | 1.22 |
| 12 | aB | 919 | CLA | C4D-CHA | 2.71 | 1.48 | 1.38 |
| 12 | aB | 909 | CLA | C1C-NC | -2.71 | 1.33 | 1.37 |
| 12 | bB | 909 | CLA | C1C-NC | -2.71 | 1.33 | 1.37 |
| 15 | bA | 847 | BCR | C30-C25 | -2.71 | 1.50 | 1.53 |
| 12 | aB | 921 | CLA | C3D-C4D | -2.70 | 1.38 | 1.44 |
| 12 | bA | 819 | CLA | C3D-C4D | -2.70 | 1.38 | 1.44 |
| 12 | bA | 827 | CLA | C3D-C4D | -2.70 | 1.38 | 1.44 |
| 12 | cB | 919 | CLA | C4D-CHA | 2.70 | 1.48 | 1.38 |
| 12 | aB | 921 | CLA | C1B-NB | -2.70 | 1.32 | 1.35 |
| 11 | aA | 801 | CL0 | C3D-C4D | -2.70 | 1.38 | 1.44 |
| 12 | aA | 831 | CLA | OBD-CAD | 2.70 | 1.27 | 1.22 |
| 12 | bA | 831 | CLA | OBD-CAD | 2.70 | 1.27 | 1.22 |
| 12 | aB | 938 | CLA | C3D-C4D | -2.70 | 1.38 | 1.44 |
| 12 | aA | 819 | CLA | C3D-C4D | -2.70 | 1.38 | 1.44 |
| 12 | aB | 913 | CLA | OBD-CAD | 2.70 | 1.27 | 1.22 |
| 12 | cB | 924 | CLA | C3D-C4D | -2.69 | 1.38 | 1.44 |
| 12 | bB | 938 | CLA | C3D-C4D | -2.69 | 1.38 | 1.44 |
| 12 | cA | 839 | CLA | C1C-NC | -2.69 | 1.33 | 1.37 |
| 12 | bB | 924 | CLA | C3D-C4D | -2.69 | 1.38 | 1.44 |
| 12 | aA | 810 | CLA | C1B-NB | -2.69 | 1.32 | 1.35 |
| 12 | bA | 839 | CLA | C1C-NC | -2.69 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 928 | CLA | C3D-C4D | -2.69 | 1.38 | 1.44 |
| 13 | aA | 845 | 1L3 | C22-C21 | 2.69 | 1.57 | 1.50 |
| 12 | cA | 832 | CLA | C4B-NB | -2.69 | 1.32 | 1.35 |
| 12 | cB | 907 | CLA | C1B-NB | -2.69 | 1.32 | 1.35 |
| 12 | bA | 806 | CLA | C4B-NB | -2.68 | 1.32 | 1.35 |
| 12 | cB | 938 | CLA | C3D-C4D | -2.68 | 1.38 | 1.44 |
| 12 | aA | 825 | CLA | C1C-C2C | 2.68 | 1.49 | 1.44 |
| 13 | cA | 844 | 1L3 | C22-C21 | 2.68 | 1.57 | 1.50 |
| 13 | bA | 844 | 1L3 | C22-C21 | 2.68 | 1.57 | 1.50 |
| 12 | cA | 827 | CLA | C4B-NB | -2.68 | 1.32 | 1.35 |
| 15 | cA | 847 | BCR | C30-C25 | -2.68 | 1.50 | 1.53 |
| 12 | cB | 935 | CLA | OBD-CAD | 2.68 | 1.27 | 1.22 |
| 12 | aA | 842 | CLA | C1B-NB | -2.68 | 1.32 | 1.35 |
| 12 | aB | 924 | CLA | C3D-C4D | -2.68 | 1.38 | 1.44 |
| 12 | bA | 837 | CLA | C4B-NB | -2.68 | 1.32 | 1.35 |
| 12 | aB | 935 | CLA | OBD-CAD | 2.68 | 1.27 | 1.22 |
| 12 | bA | 826 | CLA | C1B-NB | -2.67 | 1.32 | 1.35 |
| 12 | aB | 939 | CLA | C1B-NB | -2.67 | 1.32 | 1.35 |
| 12 | bA | 840 | CLA | C1B-NB | -2.67 | 1.32 | 1.35 |
| 12 | bA | 823 | CLA | C1B-NB | -2.67 | 1.32 | 1.35 |
| 12 | aA | 827 | CLA | C4B-NB | -2.67 | 1.32 | 1.35 |
| 12 | bA | 828 | CLA | C4B-NB | -2.67 | 1.32 | 1.35 |
| 12 | cA | 819 | CLA | OBD-CAD | 2.67 | 1.27 | 1.22 |
| 12 | aB | 936 | CLA | C1B-NB | -2.67 | 1.32 | 1.35 |
| 12 | bA | 827 | CLA | C4B-NB | -2.67 | 1.32 | 1.35 |
| 12 | cB | 929 | CLA | C1B-NB | -2.67 | 1.32 | 1.35 |
| 12 | cB | 949 | CLA | C4D-CHA | 2.67 | 1.47 | 1.38 |
| 15 | aA | 848 | BCR | C30-C25 | -2.66 | 1.50 | 1.53 |
| 12 | bA | 818 | CLA | C1B-NB | -2.66 | 1.32 | 1.35 |
| 12 | cA | 833 | CLA | OBD-CAD | 2.66 | 1.27 | 1.22 |
| 12 | bA | 810 | CLA | C1B-NB | -2.66 | 1.32 | 1.35 |
| 12 | bA | 842 | CLA | C1B-NB | -2.66 | 1.32 | 1.35 |
| 12 | aB | 922 | CLA | C3D-C4D | -2.66 | 1.38 | 1.44 |
| 12 | bB | 949 | CLA | C4D-CHA | 2.66 | 1.47 | 1.38 |
| 12 | bA | 803 | CLA | C1D-ND | 2.66 | 1.41 | 1.37 |
| 12 | aA | 806 | CLA | C4B-NB | -2.66 | 1.32 | 1.35 |
| 12 | bA | 808 | CLA | C4D-CHA | 2.66 | 1.47 | 1.38 |
| 12 | bA | 824 | CLA | C4D-CHA | 2.66 | 1.47 | 1.38 |
| 12 | cA | 823 | CLA | C1B-NB | -2.66 | 1.32 | 1.35 |
| 12 | cA | 827 | CLA | OBD-CAD | 2.66 | 1.27 | 1.22 |
| 12 | aB | 929 | CLA | C1B-NB | -2.66 | 1.32 | 1.35 |
| 12 | cB | 917 | CLA | C4D-CHA | 2.66 | 1.47 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 830 | CLA | C1C-NC | -2.66 | 1.33 | 1.37 |
| 12 | bB | 923 | CLA | C1B-NB | -2.66 | 1.32 | 1.35 |
| 12 | bA | 825 | CLA | C1C-C2C | 2.66 | 1.49 | 1.44 |
| 12 | aA | 819 | CLA | OBD-CAD | 2.66 | 1.27 | 1.22 |
| 12 | aL | 204 | CLA | C1B-NB | -2.66 | 1.32 | 1.35 |
| 12 | cA | 808 | CLA | C4D-CHA | 2.65 | 1.47 | 1.38 |
| 12 | bB | 907 | CLA | C1B-NB | -2.65 | 1.32 | 1.35 |
| 12 | cA | 825 | CLA | C1C-C2C | 2.65 | 1.49 | 1.44 |
| 12 | aA | 818 | CLA | C1C-NC | -2.65 | 1.33 | 1.37 |
| 12 | aB | 908 | CLA | C1C-NC | -2.65 | 1.33 | 1.37 |
| 12 | bB | 909 | CLA | C3D-C4D | -2.65 | 1.38 | 1.44 |
| 12 | aB | 949 | CLA | C4D-CHA | 2.65 | 1.47 | 1.38 |
| 12 | bB | 914 | CLA | C4D-CHA | 2.65 | 1.47 | 1.38 |
| 12 | bB | 917 | CLA | C4D-CHA | 2.65 | 1.47 | 1.38 |
| 15 | bB | 942 | BCR | C1-C6 | -2.65 | 1.50 | 1.53 |
| 12 | aB | 923 | CLA | OBD-CAD | 2.65 | 1.27 | 1.22 |
| 12 | cB | 936 | CLA | C1B-NB | -2.65 | 1.32 | 1.35 |
| 12 | cL | 204 | CLA | C1B-NB | -2.65 | 1.32 | 1.35 |
| 12 | cA | 832 | CLA | C3D-C4D | -2.65 | 1.38 | 1.44 |
| 12 | cA | 839 | CLA | OBD-CAD | 2.65 | 1.27 | 1.22 |
| 16 | bA | 852 | LHG | O7-C5 | -2.65 | 1.40 | 1.46 |
| 12 | aA | 827 | CLA | OBD-CAD | 2.65 | 1.27 | 1.22 |
| 12 | aB | 914 | CLA | C4D-CHA | 2.64 | 1.47 | 1.38 |
| 12 | aA | 818 | CLA | C1B-NB | -2.64 | 1.32 | 1.35 |
| 16 | cA | 852 | LHG | O7-C5 | -2.64 | 1.40 | 1.46 |
| 12 | bA | 839 | CLA | OBD-CAD | 2.64 | 1.27 | 1.22 |
| 12 | cA | 824 | CLA | C4D-CHA | 2.64 | 1.47 | 1.38 |
| 12 | aA | 840 | CLA | C1B-NB | -2.64 | 1.32 | 1.35 |
| 12 | aB | 917 | CLA | C4D-CHA | 2.64 | 1.47 | 1.38 |
| 12 | aB | 914 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 12 | aB | 909 | CLA | C3D-C4D | -2.64 | 1.38 | 1.44 |
| 12 | aB | 939 | CLA | C3D-C4D | -2.64 | 1.38 | 1.44 |
| 12 | aB | 923 | CLA | C1B-NB | -2.64 | 1.32 | 1.35 |
| 12 | cB | 939 | CLA | C3D-C4D | -2.64 | 1.38 | 1.44 |
| 12 | bA | 812 | CLA | C1B-NB | -2.64 | 1.32 | 1.35 |
| 12 | cB | 914 | CLA | C1C-C2C | 2.64 | 1.49 | 1.44 |
| 12 | aA | 839 | CLA | OBD-CAD | 2.64 | 1.27 | 1.22 |
| 12 | cB | 909 | CLA | C3D-C4D | -2.64 | 1.38 | 1.44 |
| 12 | bB | 939 | CLA | C3D-C4D | -2.64 | 1.38 | 1.44 |
| 12 | cA | 803 | CLA | C1D-ND | 2.64 | 1.41 | 1.37 |
| 12 | aA | 837 | CLA | C3D-C4D | -2.64 | 1.38 | 1.44 |
| 12 | bA | 818 | CLA | C1C-NC | -2.63 | 1.33 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 923 | CLA | OBD-CAD | 2.63 | 1.27 | 1.22 |
| 12 | bA | 837 | CLA | C3D-C4D | -2.63 | 1.38 | 1.44 |
| 12 | aA | 808 | CLA | C4D-CHA | 2.63 | 1.47 | 1.38 |
| 12 | cA | 832 | CLA | OBD-CAD | 2.63 | 1.27 | 1.22 |
| 15 | cF | 204 | BCR | C30-C25 | -2.63 | 1.50 | 1.53 |
| 12 | bA | 833 | CLA | OBD-CAD | 2.63 | 1.27 | 1.22 |
| 12 | cA | 829 | CLA | OBD-CAD | 2.63 | 1.27 | 1.22 |
| 12 | cA | 810 | CLA | C1B-NB | -2.63 | 1.32 | 1.35 |
| 12 | cB | 904 | CLA | C3D-C4D | -2.63 | 1.38 | 1.44 |
| 12 | aA | 832 | CLA | C3D-C4D | -2.63 | 1.38 | 1.44 |
| 12 | cB | 926 | CLA | C1C-NC | -2.63 | 1.33 | 1.37 |
| 12 | cB | 908 | CLA | C1C-NC | -2.62 | 1.33 | 1.37 |
| 12 | cA | 818 | CLA | C1B-NB | -2.62 | 1.32 | 1.35 |
| 12 | cA | 818 | CLA | C4B-NB | -2.62 | 1.32 | 1.35 |
| 12 | cB | 935 | CLA | C4B-NB | -2.62 | 1.32 | 1.35 |
| 12 | aA | 803 | CLA | C1D-ND | 2.62 | 1.41 | 1.37 |
| 12 | bA | 819 | CLA | OBD-CAD | 2.62 | 1.27 | 1.22 |
| 12 | cA | 815 | CLA | C4D-CHA | 2.62 | 1.47 | 1.38 |
| 12 | cB | 923 | CLA | C3D-C4D | -2.62 | 1.38 | 1.44 |
| 12 | aB | 913 | CLA | C4B-NB | -2.62 | 1.32 | 1.35 |
| 16 | aA | 853 | LHG | O7-C5 | -2.62 | 1.40 | 1.46 |
| 12 | aB | 905 | CLA | C4D-CHA | 2.62 | 1.47 | 1.38 |
| 12 | aB | 904 | CLA | C3D-C4D | -2.62 | 1.38 | 1.44 |
| 12 | cA | 837 | CLA | C3D-C4D | -2.62 | 1.38 | 1.44 |
| 12 | aA | 824 | CLA | C4D-CHA | 2.62 | 1.47 | 1.38 |
| 12 | cB | 922 | CLA | C3D-C4D | -2.62 | 1.38 | 1.44 |
| 12 | bA | 830 | CLA | C1C-NC | -2.62 | 1.33 | 1.37 |
| 12 | aB | 908 | CLA | C3D-C4D | -2.62 | 1.38 | 1.44 |
| 12 | bB | 904 | CLA | C3D-C4D | -2.62 | 1.38 | 1.44 |
| 12 | cA | 826 | CLA | C1B-NB | -2.62 | 1.32 | 1.35 |
| 12 | bB | 914 | CLA | C1C-C2C | 2.62 | 1.49 | 1.44 |
| 15 | bF | 204 | BCR | C30-C25 | -2.62 | 1.50 | 1.53 |
| 12 | cB | 905 | CLA | C4D-CHA | 2.62 | 1.47 | 1.38 |
| 12 | cB | 914 | CLA | C4D-CHA | 2.61 | 1.47 | 1.38 |
| 12 | bB | 939 | CLA | C1C-NC | -2.61 | 1.33 | 1.37 |
| 12 | aA | 829 | CLA | OBD-CAD | 2.61 | 1.27 | 1.22 |
| 12 | bA | 832 | CLA | OBD-CAD | 2.61 | 1.27 | 1.22 |
| 12 | bA | 815 | CLA | C4D-CHA | 2.61 | 1.47 | 1.38 |
| 15 | cB | 942 | BCR | C1-C6 | -2.61 | 1.50 | 1.53 |
| 12 | aA | 815 | CLA | C4D-CHA | 2.61 | 1.47 | 1.38 |
| 12 | aB | 939 | CLA | C1C-NC | -2.61 | 1.33 | 1.37 |
| 12 | bL | 202 | CLA | OBD-CAD | 2.61 | 1.27 | 1.22 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 923 | CLA | C3D-C4D | -2.61 | 1.38 | 1.44 |
| 12 | cB | 939 | CLA | C1C-NC | -2.61 | 1.33 | 1.37 |
| 12 | aL | 202 | CLA | OBD-CAD | 2.61 | 1.27 | 1.22 |
| 12 | bB | 925 | CLA | C4D-CHA | 2.61 | 1.47 | 1.38 |
| 12 | aA | 832 | CLA | OBD-CAD | 2.61 | 1.27 | 1.22 |
| 12 | aA | 818 | CLA | C4B-NB | -2.61 | 1.32 | 1.35 |
| 12 | bA | 835 | CLA | C4D-CHA | 2.61 | 1.47 | 1.38 |
| 12 | aA | 812 | CLA | C1B-NB | -2.61 | 1.32 | 1.35 |
| 15 | aB | 942 | BCR | C1-C6 | -2.61 | 1.50 | 1.53 |
| 12 | cB | 923 | CLA | OBD-CAD | 2.61 | 1.27 | 1.22 |
| 12 | bB | 922 | CLA | C3D-C4D | -2.61 | 1.38 | 1.44 |
| 12 | aA | 836 | CLA | C4D-CHA | 2.61 | 1.47 | 1.38 |
| 12 | cB | 932 | CLA | C1C-NC | -2.61 | 1.33 | 1.37 |
| 12 | aB | 909 | CLA | C4D-CHA | 2.61 | 1.47 | 1.38 |
| 12 | bA | 832 | CLA | C3D-C4D | -2.61 | 1.38 | 1.44 |
| 12 | bA | 813 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | cB | 925 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | bB | 905 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | cA | 813 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | aB | 923 | CLA | C3D-C4D | -2.60 | 1.38 | 1.44 |
| 12 | cB | 909 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | cA | 831 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | aA | 813 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | bA | 832 | CLA | C4B-NB | -2.60 | 1.32 | 1.35 |
| 12 | aA | 817 | CLA | C3D-C4D | -2.60 | 1.38 | 1.44 |
| 12 | aB | 908 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | bB | 929 | CLA | C1B-NB | -2.60 | 1.32 | 1.35 |
| 12 | bA | 840 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | bA | 829 | CLA | OBD-CAD | 2.60 | 1.27 | 1.22 |
| 12 | bB | 936 | CLA | C1B-NB | -2.60 | 1.32 | 1.35 |
| 12 | aB | 932 | CLA | C1C-NC | -2.60 | 1.33 | 1.37 |
| 12 | bA | 836 | CLA | C4D-CHA | 2.60 | 1.47 | 1.38 |
| 12 | cA | 836 | CLA | C4D-CHA | 2.59 | 1.47 | 1.38 |
| 12 | aB | 926 | CLA | C1C-NC | -2.59 | 1.33 | 1.37 |
| 12 | bB | 932 | CLA | C3D-C4D | -2.59 | 1.38 | 1.44 |
| 12 | aB | 925 | CLA | C4D-CHA | 2.59 | 1.47 | 1.38 |
| 12 | cA | 812 | CLA | C1B-NB | -2.59 | 1.32 | 1.35 |
| 12 | bB | 909 | CLA | C4D-CHA | 2.59 | 1.47 | 1.38 |
| 12 | bB | 920 | CLA | C4D-CHA | 2.59 | 1.47 | 1.38 |
| 12 | bB | 908 | CLA | C1C-NC | -2.59 | 1.33 | 1.37 |
| 12 | aB | 949 | CLA | C1B-NB | -2.59 | 1.32 | 1.35 |
| 12 | cB | 921 | CLA | C4D-CHA | 2.59 | 1.47 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 820 | CLA | C4D-CHA | 2.59 | 1.47 | 1.38 |
| 12 | cA | 817 | CLA | C3D-C4D | -2.59 | 1.38 | 1.44 |
| 12 | cA | 804 | CLA | C1B-NB | -2.59 | 1.32 | 1.35 |
| 12 | cA | 806 | CLA | C4B-NB | -2.59 | 1.32 | 1.35 |
| 12 | cB | 923 | CLA | C1B-NB | -2.59 | 1.32 | 1.35 |
| 12 | aA | 840 | CLA | C4D-CHA | 2.59 | 1.47 | 1.38 |
| 12 | bA | 841 | CLA | C1B-NB | -2.59 | 1.32 | 1.35 |
| 12 | aA | 805 | CLA | C4D-CHA | 2.59 | 1.47 | 1.38 |
| 12 | cA | 836 | CLA | C1B-NB | -2.59 | 1.32 | 1.35 |
| 12 | cA | 835 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | bA | 831 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | bA | 820 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | aB | 907 | CLA | C1B-NB | -2.58 | 1.32 | 1.35 |
| 12 | aB | 907 | CLA | C3D-C4D | -2.58 | 1.38 | 1.44 |
| 12 | aA | 830 | CLA | C1C-NC | -2.58 | 1.34 | 1.37 |
| 12 | bB | 932 | CLA | C1C-NC | -2.58 | 1.34 | 1.37 |
| 12 | bB | 908 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 13 | bA | 844 | 1L3 | O13-C12 | -2.58 | 1.17 | 1.23 |
| 12 | bB | 908 | CLA | C3D-C4D | -2.58 | 1.38 | 1.44 |
| 12 | aB | 935 | CLA | C4B-NB | -2.58 | 1.32 | 1.35 |
| 12 | cB | 908 | CLA | C3D-C4D | -2.58 | 1.38 | 1.44 |
| 12 | aB | 921 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | aA | 823 | CLA | C1B-NB | -2.58 | 1.32 | 1.35 |
| 12 | aA | 841 | CLA | C1B-NB | -2.58 | 1.32 | 1.35 |
| 12 | aA | 831 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | cB | 908 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | aA | 835 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | bB | 907 | CLA | C3D-C4D | -2.58 | 1.38 | 1.44 |
| 12 | cA | 820 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | aB | 920 | CLA | C4D-CHA | 2.58 | 1.47 | 1.38 |
| 12 | bB | 913 | CLA | C4B-NB | -2.58 | 1.32 | 1.35 |
| 12 | cB | 913 | CLA | C4B-NB | -2.58 | 1.32 | 1.35 |
| 12 | cB | 924 | CLA | C1C-NC | -2.58 | 1.34 | 1.37 |
| 15 | bM | 101 | BCR | C30-C25 | -2.58 | 1.50 | 1.53 |
| 13 | aA | 845 | 1L3 | O13-C12 | -2.57 | 1.17 | 1.23 |
| 12 | aA | 804 | CLA | C1B-NB | -2.57 | 1.32 | 1.35 |
| 12 | bB | 921 | CLA | C4D-CHA | 2.57 | 1.47 | 1.38 |
| 12 | bA | 842 | CLA | C3D-C4D | -2.57 | 1.38 | 1.44 |
| 12 | aA | 826 | CLA | C1B-NB | -2.57 | 1.32 | 1.35 |
| 12 | aB | 914 | CLA | C1B-NB | -2.57 | 1.32 | 1.35 |
| 12 | cA | 815 | CLA | C1B-NB | -2.57 | 1.32 | 1.35 |
| 12 | bA | 809 | CLA | C3D-C4D | -2.57 | 1.38 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 13 | cA | 844 | 1L3 | O13-C12 | -2.57 | 1.17 | 1.23 |
| 12 | aA | 842 | CLA | C3D-C4D | -2.57 | 1.38 | 1.44 |
| 12 | cA | 805 | CLA | C4D-CHA | 2.57 | 1.47 | 1.38 |
| 12 | cA | 841 | CLA | C1C-NC | -2.57 | 1.34 | 1.37 |
| 12 | aA | 822 | CLA | C4D-CHA | 2.57 | 1.47 | 1.38 |
| 12 | cA | 840 | CLA | C4D-CHA | 2.57 | 1.47 | 1.38 |
| 12 | aA | 821 | CLA | C3D-C4D | -2.57 | 1.38 | 1.44 |
| 15 | aF | 204 | BCR | C30-C25 | -2.57 | 1.50 | 1.53 |
| 12 | aA | 806 | CLA | C3D-C4D | -2.56 | 1.38 | 1.44 |
| 12 | cA | 809 | CLA | C3D-C4D | -2.56 | 1.38 | 1.44 |
| 12 | cL | 202 | CLA | OBD-CAD | 2.56 | 1.26 | 1.22 |
| 12 | bA | 805 | CLA | C4D-CHA | 2.56 | 1.47 | 1.38 |
| 12 | bA | 822 | CLA | C4D-CHA | 2.56 | 1.47 | 1.38 |
| 12 | cA | 839 | CLA | C3D-C4D | -2.56 | 1.38 | 1.44 |
| 12 | cB | 907 | CLA | C3D-C4D | -2.56 | 1.38 | 1.44 |
| 15 | bI | 101 | BCR | C30-C25 | -2.56 | 1.50 | 1.53 |
| 12 | aB | 932 | CLA | C3D-C4D | -2.56 | 1.38 | 1.44 |
| 12 | bA | 817 | CLA | C3D-C4D | -2.56 | 1.38 | 1.44 |
| 12 | cB | 920 | CLA | C4D-CHA | 2.56 | 1.47 | 1.38 |
| 12 | cA | 818 | CLA | C1C-NC | -2.56 | 1.34 | 1.37 |
| 12 | aA | 809 | CLA | C3D-C4D | -2.56 | 1.38 | 1.44 |
| 12 | bA | 804 | CLA | C1B-NB | -2.56 | 1.32 | 1.35 |
| 12 | bA | 806 | CLA | C3D-C4D | -2.56 | 1.38 | 1.44 |
| 12 | aB | 924 | CLA | C1C-NC | -2.56 | 1.34 | 1.37 |
| 12 | cA | 811 | CLA | C4D-CHA | 2.55 | 1.47 | 1.38 |
| 12 | cB | 932 | CLA | C3D-C4D | -2.55 | 1.38 | 1.44 |
| 12 | aA | 814 | CLA | C3D-C4D | -2.55 | 1.38 | 1.44 |
| 12 | aA | 832 | CLA | C4B-NB | -2.55 | 1.32 | 1.35 |
| 12 | cB | 929 | CLA | C4D-CHA | 2.55 | 1.47 | 1.38 |
| 12 | bB | 905 | CLA | OBD-CAD | 2.55 | 1.26 | 1.22 |
| 12 | bA | 821 | CLA | C3D-C4D | -2.55 | 1.38 | 1.44 |
| 12 | bA | 829 | CLA | C4D-CHA | 2.55 | 1.47 | 1.38 |
| 12 | cB | 903 | CLA | C4D-CHA | 2.55 | 1.47 | 1.38 |
| 12 | aA | 816 | CLA | C1B-NB | -2.55 | 1.32 | 1.35 |
| 12 | aB | 918 | CLA | C4B-NB | -2.55 | 1.32 | 1.35 |
| 12 | cB | 918 | CLA | C4B-NB | -2.55 | 1.32 | 1.35 |
| 12 | cA | 822 | CLA | C4D-CHA | 2.55 | 1.47 | 1.38 |
| 12 | bA | 811 | CLA | C4D-CHA | 2.55 | 1.47 | 1.38 |
| 15 | cI | 101 | BCR | C30-C25 | -2.55 | 1.50 | 1.53 |
| 12 | bF | 202 | CLA | C4D-CHA | 2.55 | 1.47 | 1.38 |
| 12 | bA | 818 | CLA | C4B-NB | -2.55 | 1.32 | 1.35 |
| 12 | cA | 806 | CLA | C1B-NB | -2.55 | 1.32 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 840 | CLA | C1B-NB | -2.55 | 1.32 | 1.35 |
| 12 | aA | 842 | CLA | C4D-CHA | 2.54 | 1.47 | 1.38 |
| 12 | cB | 935 | CLA | C4D-CHA | 2.54 | 1.47 | 1.38 |
| 15 | cF | 201 | BCR | C1-C6 | -2.54 | 1.50 | 1.53 |
| 12 | bB | 926 | CLA | C1C-NC | -2.54 | 1.34 | 1.37 |
| 12 | aA | 807 | CLA | C1C-NC | -2.54 | 1.34 | 1.37 |
| 12 | bB | 929 | CLA | C4D-CHA | 2.54 | 1.47 | 1.38 |
| 12 | aB | 903 | CLA | C4D-CHA | 2.54 | 1.47 | 1.38 |
| 12 | bA | 836 | CLA | C1B-NB | -2.54 | 1.32 | 1.35 |
| 12 | aB | 950 | CLA | C4C-C3C | 2.54 | 1.49 | 1.45 |
| 12 | cB | 936 | CLA | C3D-C4D | -2.54 | 1.38 | 1.44 |
| 12 | bB | 950 | CLA | C4C-C3C | 2.54 | 1.49 | 1.45 |
| 12 | aB | 929 | CLA | C4D-CHA | 2.54 | 1.47 | 1.38 |
| 12 | aB | 935 | CLA | C4D-CHA | 2.54 | 1.47 | 1.38 |
| 12 | cA | 807 | CLA | C1C-NC | -2.54 | 1.34 | 1.37 |
| 12 | bB | 925 | CLA | C4B-CHC | 2.54 | 1.48 | 1.41 |
| 12 | cB | 907 | CLA | C1C-NC | -2.54 | 1.34 | 1.37 |
| 12 | cA | 821 | CLA | C3D-C4D | -2.54 | 1.38 | 1.44 |
| 12 | cA | 825 | CLA | C4B-CHC | 2.54 | 1.48 | 1.41 |
| 12 | cA | 842 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 12 | aA | 843 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 12 | bA | 839 | CLA | C3D-C4D | -2.53 | 1.38 | 1.44 |
| 12 | bB | 911 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 12 | cB | 911 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 12 | bA | 807 | CLA | C1C-NC | -2.53 | 1.34 | 1.37 |
| 12 | bB | 903 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 12 | aB | 923 | CLA | C1C-C2C | 2.53 | 1.49 | 1.44 |
| 12 | cA | 806 | CLA | C3D-C4D | -2.53 | 1.38 | 1.44 |
| 12 | aF | 202 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 12 | bA | 841 | CLA | C1C-NC | -2.53 | 1.34 | 1.37 |
| 12 | cA | 828 | CLA | C3D-C4D | -2.53 | 1.38 | 1.44 |
| 12 | bB | 905 | CLA | C4B-NB | -2.53 | 1.33 | 1.35 |
| 12 | cF | 202 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 15 | cA | 850 | BCR | C30-C25 | -2.53 | 1.50 | 1.53 |
| 12 | aA | 842 | CLA | C1C-NC | -2.53 | 1.34 | 1.37 |
| 12 | bB | 935 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 12 | aB | 925 | CLA | C4B-CHC | 2.53 | 1.48 | 1.41 |
| 12 | aA | 806 | CLA | C1B-NB | -2.53 | 1.33 | 1.35 |
| 12 | bA | 815 | CLA | C1B-NB | -2.53 | 1.33 | 1.35 |
| 12 | bA | 839 | CLA | C4B-NB | -2.53 | 1.33 | 1.35 |
| 12 | bB | 920 | CLA | C1C-C2C | 2.53 | 1.49 | 1.44 |
| 12 | cB | 923 | CLA | C1C-C2C | 2.53 | 1.49 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 839 | CLA | C3D-C4D | -2.53 | 1.38 | 1.44 |
| 12 | bA | 825 | CLA | C4B-CHC | 2.53 | 1.48 | 1.41 |
| 12 | bB | 933 | CLA | C4D-CHA | 2.53 | 1.47 | 1.38 |
| 12 | aB | 907 | CLA | C1C-NC | -2.53 | 1.34 | 1.37 |
| 12 | aA | 844 | CLA | C4C-C3C | 2.52 | 1.49 | 1.45 |
| 12 | bA | 840 | CLA | C4C-C3C | 2.52 | 1.49 | 1.45 |
| 12 | aB | 913 | CLA | C3D-C4D | -2.52 | 1.38 | 1.44 |
| 12 | cA | 814 | CLA | C3D-C4D | -2.52 | 1.38 | 1.44 |
| 12 | cB | 928 | CLA | C1C-NC | -2.52 | 1.34 | 1.37 |
| 15 | cF | 203 | BCR | C30-C25 | -2.52 | 1.50 | 1.53 |
| 12 | cA | 842 | CLA | C3D-C4D | -2.52 | 1.38 | 1.44 |
| 12 | aB | 932 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | aB | 915 | CLA | C3D-C4D | -2.52 | 1.38 | 1.44 |
| 12 | cB | 905 | CLA | C4B-NB | -2.52 | 1.33 | 1.35 |
| 12 | bB | 950 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | aB | 936 | CLA | C3D-C4D | -2.52 | 1.38 | 1.44 |
| 12 | aB | 920 | CLA | C1C-C2C | 2.52 | 1.49 | 1.44 |
| 12 | aA | 829 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | cA | 810 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | bB | 935 | CLA | C4B-NB | -2.52 | 1.33 | 1.35 |
| 12 | aA | 830 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | bB | 932 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | cA | 830 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | bA | 828 | CLA | C3D-C4D | -2.52 | 1.38 | 1.44 |
| 12 | cA | 816 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | bA | 836 | CLA | C4C-C3C | 2.52 | 1.49 | 1.45 |
| 12 | cA | 829 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | aA | 811 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | aB | 939 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | cB | 915 | CLA | C4D-CHA | 2.52 | 1.47 | 1.38 |
| 12 | bA | 810 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | aB | 950 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | cA | 843 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | aA | 837 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | cB | 915 | CLA | C3D-C4D | -2.51 | 1.38 | 1.44 |
| 12 | bA | 813 | CLA | C4B-NB | -2.51 | 1.33 | 1.35 |
| 12 | cB | 914 | CLA | C1B-NB | -2.51 | 1.33 | 1.35 |
| 12 | cB | 933 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | cA | 842 | CLA | C1C-NC | -2.51 | 1.34 | 1.37 |
| 12 | bA | 806 | CLA | C1B-NB | -2.51 | 1.33 | 1.35 |
| 12 | bB | 939 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | aB | 905 | CLA | C4B-NB | -2.51 | 1.33 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 843 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 15 | aM | 101 | BCR | C30-C25 | -2.51 | 1.50 | 1.53 |
| 12 | bB | 924 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | aB | 905 | CLA | C3D-C4D | -2.51 | 1.38 | 1.44 |
| 12 | bA | 830 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | aB | 933 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | bA | 838 | CLA | C3D-C4D | -2.51 | 1.38 | 1.44 |
| 12 | aA | 824 | CLA | C1C-NC | -2.51 | 1.34 | 1.37 |
| 12 | bB | 903 | CLA | C1C-NC | -2.51 | 1.34 | 1.37 |
| 15 | aI | 101 | BCR | C30-C25 | -2.51 | 1.50 | 1.53 |
| 12 | bA | 824 | CLA | C3D-C4D | -2.51 | 1.38 | 1.44 |
| 12 | aB | 911 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | bB | 949 | CLA | C1B-NB | -2.51 | 1.33 | 1.35 |
| 12 | bA | 842 | CLA | C1C-NC | -2.51 | 1.34 | 1.37 |
| 12 | cB | 905 | CLA | OBD-CAD | 2.51 | 1.26 | 1.22 |
| 12 | bB | 936 | CLA | C3D-C4D | -2.51 | 1.38 | 1.44 |
| 12 | aA | 825 | CLA | C4B-CHC | 2.51 | 1.48 | 1.41 |
| 12 | cB | 924 | CLA | C4D-CHA | 2.51 | 1.47 | 1.38 |
| 12 | aB | 905 | CLA | OBD-CAD | 2.50 | 1.26 | 1.22 |
| 12 | aA | 810 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | aA | 813 | CLA | C4B-NB | -2.50 | 1.33 | 1.35 |
| 12 | aA | 834 | CLA | C3D-C4D | -2.50 | 1.38 | 1.44 |
| 12 | bA | 842 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | bB | 928 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 12 | cA | 831 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 15 | cM | 101 | BCR | C30-C25 | -2.50 | 1.50 | 1.53 |
| 12 | bB | 930 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | bA | 809 | CLA | C1B-NB | -2.50 | 1.33 | 1.35 |
| 12 | cB | 903 | CLA | C4B-NB | -2.50 | 1.33 | 1.35 |
| 12 | cA | 837 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | cA | 812 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | aA | 841 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 12 | aA | 816 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 15 | bF | 203 | BCR | C30-C25 | -2.50 | 1.50 | 1.53 |
| 12 | bB | 915 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | bA | 812 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | aB | 930 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | aA | 833 | CLA | C3D-C4D | -2.50 | 1.38 | 1.44 |
| 12 | cB | 949 | CLA | C1B-NB | -2.50 | 1.33 | 1.35 |
| 12 | aA | 844 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | cB | 903 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 12 | cA | 843 | CLA | C3D-C4D | -2.50 | 1.38 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 833 | CLA | C3D-C4D | -2.50 | 1.38 | 1.44 |
| 12 | aA | 840 | CLA | C4C-C3C | 2.50 | 1.49 | 1.45 |
| 12 | aB | 918 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | bA | 837 | CLA | C4D-CHA | 2.50 | 1.47 | 1.38 |
| 12 | cA | 833 | CLA | C3D-C4D | -2.50 | 1.38 | 1.44 |
| 12 | aA | 837 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 12 | bB | 924 | CLA | C1C-NC | -2.50 | 1.34 | 1.37 |
| 12 | cB | 911 | CLA | C3D-C4D | -2.50 | 1.38 | 1.44 |
| 12 | aB | 928 | CLA | C1C-NC | -2.49 | 1.34 | 1.37 |
| 12 | aB | 950 | CLA | C4B-NB | -2.49 | 1.33 | 1.35 |
| 12 | cA | 834 | CLA | C3D-C4D | -2.49 | 1.38 | 1.44 |
| 12 | bA | 814 | CLA | C1C-NC | -2.49 | 1.34 | 1.37 |
| 12 | aB | 915 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | cB | 920 | CLA | C1C-C2C | 2.49 | 1.49 | 1.44 |
| 12 | bB | 915 | CLA | C3D-C4D | -2.49 | 1.38 | 1.44 |
| 12 | cA | 813 | CLA | C4B-NB | -2.49 | 1.33 | 1.35 |
| 12 | bA | 828 | CLA | C1C-NC | -2.49 | 1.34 | 1.37 |
| 12 | bA | 831 | CLA | C1C-NC | -2.49 | 1.34 | 1.37 |
| 12 | cB | 925 | CLA | C4B-CHC | 2.49 | 1.47 | 1.41 |
| 12 | bB | 924 | CLA | C4B-NB | -2.49 | 1.33 | 1.35 |
| 12 | aA | 843 | CLA | C3D-C4D | -2.49 | 1.38 | 1.44 |
| 12 | aB | 936 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | cA | 830 | CLA | C3D-C4D | -2.49 | 1.38 | 1.44 |
| 15 | aF | 203 | BCR | C30-C25 | -2.49 | 1.50 | 1.53 |
| 12 | bA | 825 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | bA | 816 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | cB | 939 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | aA | 828 | CLA | C3D-C4D | -2.49 | 1.38 | 1.44 |
| 12 | aB | 924 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | bA | 814 | CLA | C3D-C4D | -2.49 | 1.38 | 1.44 |
| 12 | bB | 907 | CLA | C1C-NC | -2.49 | 1.34 | 1.37 |
| 12 | aB | 922 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | aL | 202 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | cB | 930 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | cA | 832 | CLA | C1B-NB | -2.49 | 1.33 | 1.35 |
| 12 | cB | 918 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | bB | 923 | CLA | C1C-C2C | 2.49 | 1.49 | 1.44 |
| 12 | cA | 827 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | aA | 821 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | cB | 932 | CLA | C4D-CHA | 2.49 | 1.47 | 1.38 |
| 12 | aA | 836 | CLA | C1B-NB | -2.49 | 1.33 | 1.35 |
| 12 | bA | 832 | CLA | C1B-NB | -2.49 | 1.33 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 15 | bB | 942 | BCR | C30-C25 | -2.48 | 1.50 | 1.53 |
| 12 | cA | 825 | CLA | C4D-CHA | 2.48 | 1.47 | 1.38 |
| 15 | aB | 942 | BCR | C30-C25 | -2.48 | 1.50 | 1.53 |
| 15 | aF | 201 | BCR | C1-C6 | -2.48 | 1.50 | 1.53 |
| 12 | cL | 202 | CLA | C4D-CHA | 2.48 | 1.47 | 1.38 |
| 12 | aA | 807 | CLA | C3D-C4D | -2.48 | 1.38 | 1.44 |
| 12 | bB | 914 | CLA | C1B-NB | -2.48 | 1.33 | 1.35 |
| 12 | aA | 812 | CLA | C4D-CHA | 2.48 | 1.47 | 1.38 |
| 12 | aA | 832 | CLA | C1B-NB | -2.48 | 1.33 | 1.35 |
| 12 | cA | 839 | CLA | C4B-NB | -2.48 | 1.33 | 1.35 |
| 12 | cB | 905 | CLA | C3D-C4D | -2.48 | 1.38 | 1.44 |
| 12 | aA | 844 | CLA | C4B-NB | -2.48 | 1.33 | 1.35 |
| 12 | bB | 918 | CLA | C4B-NB | -2.48 | 1.33 | 1.35 |
| 12 | cB | 922 | CLA | C4D-CHA | 2.48 | 1.47 | 1.38 |
| 12 | bB | 905 | CLA | C3D-C4D | -2.48 | 1.38 | 1.44 |
| 12 | aA | 815 | CLA | C1B-NB | -2.48 | 1.33 | 1.35 |
| 12 | aA | 839 | CLA | C4B-NB | -2.48 | 1.33 | 1.35 |
| 12 | bA | 837 | CLA | C1C-NC | -2.48 | 1.34 | 1.37 |
| 12 | bA | 843 | CLA | C1C-NC | -2.48 | 1.34 | 1.37 |
| 12 | aA | 825 | CLA | C4D-CHA | 2.48 | 1.47 | 1.38 |
| 12 | bA | 827 | CLA | C4D-CHA | 2.48 | 1.47 | 1.38 |
| 12 | aA | 836 | CLA | C4C-C3C | 2.48 | 1.49 | 1.45 |
| 12 | bB | 918 | CLA | C4D-CHA | 2.48 | 1.47 | 1.38 |
| 12 | bF | 202 | CLA | C4B-CHC | 2.47 | 1.47 | 1.41 |
| 12 | bA | 843 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 12 | bB | 913 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 12 | aA | 837 | CLA | OBD-CAD | 2.47 | 1.26 | 1.22 |
| 12 | cA | 837 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 12 | cB | 913 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 12 | bB | 903 | CLA | C4B-NB | -2.47 | 1.33 | 1.35 |
| 12 | bB | 950 | CLA | C4B-NB | -2.47 | 1.33 | 1.35 |
| 12 | cA | 814 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 12 | cA | 824 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 15 | bI | 101 | BCR | C1-C6 | -2.47 | 1.50 | 1.53 |
| 12 | aA | 838 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 12 | cA | 840 | CLA | C4C-C3C | 2.47 | 1.49 | 1.45 |
| 12 | bA | 807 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 12 | cB | 936 | CLA | C4D-CHA | 2.47 | 1.47 | 1.38 |
| 15 | bA | 850 | BCR | C1-C6 | -2.47 | 1.50 | 1.53 |
| 12 | cF | 202 | CLA | C4B-CHC | 2.47 | 1.47 | 1.41 |
| 12 | bB | 913 | CLA | C4D-CHA | 2.47 | 1.47 | 1.38 |
| 12 | aA | 827 | CLA | C4D-CHA | 2.47 | 1.47 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 853 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 12 | bB | 936 | CLA | C4D-CHA | 2.47 | 1.47 | 1.38 |
| 12 | aB | 913 | CLA | C4D-CHA | 2.47 | 1.47 | 1.38 |
| 12 | aA | 810 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 12 | bA | 834 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 12 | cA | 838 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 12 | aF | 202 | CLA | C4B-CHC | 2.47 | 1.47 | 1.41 |
| 12 | aB | 903 | CLA | C1C-NC | -2.47 | 1.34 | 1.37 |
| 12 | aA | 824 | CLA | C3D-C4D | -2.47 | 1.38 | 1.44 |
| 12 | bL | 202 | CLA | C4D-CHA | 2.46 | 1.47 | 1.38 |
| 12 | bA | 821 | CLA | C4D-CHA | 2.46 | 1.47 | 1.38 |
| 12 | bA | 817 | CLA | C4D-CHA | 2.46 | 1.47 | 1.38 |
| 12 | cA | 802 | CLA | OBD-CAD | 2.46 | 1.26 | 1.22 |
| 15 | aA | 851 | BCR | C30-C25 | -2.46 | 1.50 | 1.53 |
| 12 | bB | 916 | CLA | C3D-C4D | -2.46 | 1.38 | 1.44 |
| 12 | bA | 830 | CLA | C3D-C4D | -2.46 | 1.38 | 1.44 |
| 12 | cA | 821 | CLA | C4D-CHA | 2.46 | 1.47 | 1.38 |
| 12 | aA | 817 | CLA | C4D-CHA | 2.46 | 1.47 | 1.38 |
| 12 | cB | 930 | CLA | C3D-C4D | -2.46 | 1.38 | 1.44 |
| 12 | cB | 924 | CLA | C4B-NB | -2.46 | 1.33 | 1.35 |
| 12 | aA | 830 | CLA | C3D-C4D | -2.46 | 1.38 | 1.44 |
| 12 | cA | 817 | CLA | C4D-CHA | 2.46 | 1.47 | 1.38 |
| 12 | aB | 911 | CLA | C3D-C4D | -2.46 | 1.38 | 1.44 |
| 12 | cA | 813 | CLA | C4B-CHC | 2.46 | 1.47 | 1.41 |
| 12 | bA | 816 | CLA | C1B-NB | -2.46 | 1.33 | 1.35 |
| 12 | cA | 816 | CLA | C1B-NB | -2.46 | 1.33 | 1.35 |
| 12 | aA | 831 | CLA | C1C-NC | -2.46 | 1.34 | 1.37 |
| 12 | bB | 922 | CLA | C4D-CHA | 2.45 | 1.47 | 1.38 |
| 12 | aB | 916 | CLA | C3D-C4D | -2.45 | 1.38 | 1.44 |
| 12 | bB | 911 | CLA | C3D-C4D | -2.45 | 1.38 | 1.44 |
| 12 | aA | 841 | CLA | C4B-CHC | 2.45 | 1.47 | 1.41 |
| 12 | cB | 916 | CLA | C3D-C4D | -2.45 | 1.38 | 1.44 |
| 12 | bA | 808 | CLA | C1B-NB | -2.45 | 1.33 | 1.35 |
| 12 | cA | 853 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 12 | aA | 814 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 12 | bA | 833 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 12 | bA | 837 | CLA | OBD-CAD | 2.45 | 1.26 | 1.22 |
| 15 | bA | 850 | BCR | C30-C25 | -2.45 | 1.50 | 1.53 |
| 12 | aA | 813 | CLA | C4B-CHC | 2.45 | 1.47 | 1.41 |
| 15 | bF | 201 | BCR | C1-C6 | -2.45 | 1.50 | 1.53 |
| 12 | cA | 807 | CLA | C3D-C4D | -2.45 | 1.38 | 1.44 |
| 12 | cA | 804 | CLA | C4D-CHA | 2.45 | 1.47 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 813 | CLA | C4B-CHC | 2.45 | 1.47 | 1.41 |
| 12 | bF | 202 | CLA | C3D-C4D | -2.45 | 1.38 | 1.44 |
| 15 | aF | 204 | BCR | C1-C6 | -2.45 | 1.50 | 1.53 |
| 12 | cA | 823 | CLA | C1C-NC | -2.45 | 1.34 | 1.37 |
| 12 | aA | 822 | CLA | C4B-CHC | 2.45 | 1.47 | 1.41 |
| 12 | cA | 822 | CLA | C4B-CHC | 2.45 | 1.47 | 1.41 |
| 12 | cB | 913 | CLA | C4D-CHA | 2.45 | 1.47 | 1.38 |
| 12 | aA | 844 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | bB | 949 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | aA | 854 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | cA | 824 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | aB | 950 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | bA | 810 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | cB | 906 | CLA | C3D-C4D | -2.44 | 1.38 | 1.44 |
| 12 | cA | 836 | CLA | C4C-C3C | 2.44 | 1.49 | 1.45 |
| 15 | cA | 850 | BCR | C1-C6 | -2.44 | 1.50 | 1.53 |
| 12 | aA | 838 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | cA | 838 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | aA | 804 | CLA | C4D-CHA | 2.44 | 1.47 | 1.38 |
| 12 | cA | 843 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | aA | 823 | CLA | C4D-CHA | 2.44 | 1.47 | 1.38 |
| 12 | aA | 828 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | aA | 843 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | bB | 938 | CLA | C4B-NB | -2.44 | 1.33 | 1.35 |
| 12 | aA | 812 | CLA | C1C-NC | -2.44 | 1.34 | 1.37 |
| 12 | bB | 901 | CLA | C3D-C4D | -2.44 | 1.38 | 1.44 |
| 12 | cB | 918 | CLA | C3D-C4D | -2.44 | 1.38 | 1.44 |
| 12 | bA | 807 | CLA | OBD-CAD | 2.44 | 1.26 | 1.22 |
| 15 | cB | 942 | BCR | C30-C25 | -2.44 | 1.50 | 1.53 |
| 12 | cA | 826 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | bA | 809 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | cL | 204 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | aB | 930 | CLA | C3D-C4D | -2.43 | 1.38 | 1.44 |
| 12 | aB | 924 | CLA | C4B-NB | -2.43 | 1.33 | 1.35 |
| 12 | aA | 808 | CLA | C1B-NB | -2.43 | 1.33 | 1.35 |
| 12 | cA | 805 | CLA | C1B-NB | -2.43 | 1.33 | 1.35 |
| 15 | cI | 101 | BCR | C1-C6 | -2.43 | 1.50 | 1.53 |
| 12 | cL | 203 | CLA | C3D-C4D | -2.43 | 1.38 | 1.44 |
| 12 | aB | 931 | CLA | C4B-CHC | 2.43 | 1.47 | 1.41 |
| 12 | bA | 823 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | bB | 906 | CLA | C3D-C4D | -2.43 | 1.38 | 1.44 |
| 12 | aA | 823 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 950 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 12 | aB | 904 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | cB | 938 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | bB | 908 | CLA | OBD-CAD | 2.43 | 1.26 | 1.22 |
| 12 | cA | 807 | CLA | OBD-CAD | 2.43 | 1.26 | 1.22 |
| 12 | cA | 841 | CLA | C1B-NB | -2.43 | 1.33 | 1.35 |
| 12 | bA | 822 | CLA | C4B-CHC | 2.43 | 1.47 | 1.41 |
| 12 | cA | 837 | CLA | OBD-CAD | 2.43 | 1.26 | 1.22 |
| 12 | cA | 841 | CLA | C4B-CHC | 2.43 | 1.47 | 1.41 |
| 15 | cF | 204 | BCR | C1-C6 | -2.43 | 1.50 | 1.53 |
| 12 | bL | 203 | CLA | C3D-C4D | -2.43 | 1.38 | 1.44 |
| 12 | aB | 903 | CLA | C4B-NB | -2.43 | 1.33 | 1.35 |
| 12 | aB | 938 | CLA | C4B-NB | -2.43 | 1.33 | 1.35 |
| 12 | cA | 805 | CLA | C1C-C2C | 2.43 | 1.49 | 1.44 |
| 12 | bB | 910 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | bA | 827 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 12 | aA | 814 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | cB | 934 | CLA | C4B-CHC | 2.43 | 1.47 | 1.41 |
| 12 | aB | 922 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 12 | bA | 812 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 12 | bB | 938 | CLA | C4D-CHA | 2.43 | 1.47 | 1.38 |
| 12 | aB | 918 | CLA | C3D-C4D | -2.43 | 1.38 | 1.44 |
| 12 | cB | 931 | CLA | C4B-CHC | 2.43 | 1.47 | 1.41 |
| 12 | cA | 828 | CLA | C1C-NC | -2.43 | 1.34 | 1.37 |
| 12 | bB | 931 | CLA | C4B-CHC | 2.42 | 1.47 | 1.41 |
| 12 | cB | 907 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | aA | 827 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 12 | bA | 804 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | cB | 938 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 12 | aA | 809 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | bA | 802 | CLA | OBD-CAD | 2.42 | 1.26 | 1.22 |
| 12 | aB | 938 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | aA | 826 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | aL | 204 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | aB | 907 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | cB | 904 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | cA | 823 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | aF | 202 | CLA | C3D-C4D | -2.42 | 1.38 | 1.44 |
| 12 | bA | 823 | CLA | C1C-NC | -2.42 | 1.34 | 1.37 |
| 12 | bA | 814 | CLA | C4D-CHA | 2.42 | 1.47 | 1.38 |
| 12 | aL | 203 | CLA | C3D-C4D | -2.42 | 1.38 | 1.44 |
| 12 | bL | 204 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 833 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 12 | aA | 823 | CLA | C3D-C4D | -2.41 | 1.38 | 1.44 |
| 12 | bB | 918 | CLA | C3D-C4D | -2.41 | 1.38 | 1.44 |
| 12 | bB | 934 | CLA | C4B-CHC | 2.41 | 1.47 | 1.41 |
| 12 | cA | 838 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | aB | 910 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | aA | 805 | CLA | C1B-NB | -2.41 | 1.33 | 1.35 |
| 12 | cA | 827 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 12 | cA | 832 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | cL | 202 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 12 | bB | 906 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | cB | 938 | CLA | C4B-NB | -2.41 | 1.33 | 1.35 |
| 12 | bA | 832 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | cB | 910 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | cA | 810 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 12 | cA | 837 | CLA | C4C-C3C | 2.41 | 1.49 | 1.45 |
| 12 | cA | 833 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 12 | bB | 909 | CLA | OBD-CAD | 2.41 | 1.26 | 1.22 |
| 12 | aA | 803 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 12 | bA | 816 | CLA | C3D-C4D | -2.41 | 1.38 | 1.44 |
| 12 | aL | 202 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 12 | cA | 818 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 15 | aB | 946 | BCR | C1-C6 | -2.41 | 1.50 | 1.53 |
| 12 | aB | 914 | CLA | C4B-CHC | 2.41 | 1.47 | 1.41 |
| 12 | bA | 826 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | aA | 807 | CLA | OBD-CAD | 2.41 | 1.26 | 1.22 |
| 12 | cA | 823 | CLA | C3D-C4D | -2.41 | 1.38 | 1.44 |
| 12 | aA | 805 | CLA | C1C-C2C | 2.41 | 1.49 | 1.44 |
| 12 | aB | 937 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | bB | 938 | CLA | C1C-NC | -2.41 | 1.34 | 1.37 |
| 12 | bB | 907 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | aA | 832 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 15 | aI | 101 | BCR | C1-C6 | -2.41 | 1.50 | 1.53 |
| 12 | aA | 809 | CLA | C1B-NB | -2.41 | 1.33 | 1.35 |
| 12 | cA | 809 | CLA | C1B-NB | -2.41 | 1.33 | 1.35 |
| 12 | bA | 841 | CLA | C4D-CHA | 2.41 | 1.47 | 1.38 |
| 12 | bF | 202 | CLA | C4C-C3C | 2.41 | 1.49 | 1.45 |
| 12 | aB | 901 | CLA | C3D-C4D | -2.41 | 1.38 | 1.44 |
| 12 | cL | 204 | CLA | C1C-NC | -2.40 | 1.34 | 1.37 |
| 12 | bA | 838 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | cA | 841 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | bA | 823 | CLA | C3D-C4D | -2.40 | 1.38 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 841 | CLA | C4B-CHC | 2.40 | 1.47 | 1.41 |
| 12 | bB | 928 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | cA | 814 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | bA | 812 | CLA | C3D-C4D | -2.40 | 1.38 | 1.44 |
| 12 | bB | 904 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | bA | 805 | CLA | C1B-NB | -2.40 | 1.33 | 1.35 |
| 12 | cA | 816 | CLA | C3D-C4D | -2.40 | 1.38 | 1.44 |
| 12 | bB | 914 | CLA | C4B-CHC | 2.40 | 1.47 | 1.41 |
| 15 | bB | 946 | BCR | C1-C6 | -2.40 | 1.50 | 1.53 |
| 12 | cB | 906 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | aA | 837 | CLA | C4C-C3C | 2.40 | 1.49 | 1.45 |
| 12 | cA | 803 | CLA | C1C-NC | -2.40 | 1.34 | 1.37 |
| 12 | aA | 802 | CLA | OBD-CAD | 2.40 | 1.26 | 1.22 |
| 12 | cB | 937 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | cA | 809 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | aA | 841 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | aA | 854 | CLA | C4B-CHC | 2.40 | 1.47 | 1.41 |
| 12 | bL | 202 | CLA | C1C-NC | -2.40 | 1.34 | 1.37 |
| 12 | bB | 930 | CLA | C3D-C4D | -2.40 | 1.38 | 1.44 |
| 12 | cA | 839 | CLA | C4D-CHA | 2.40 | 1.46 | 1.38 |
| 12 | aA | 807 | CLA | C4B-CHC | 2.40 | 1.47 | 1.41 |
| 12 | bB | 908 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 12 | bL | 204 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 12 | cB | 908 | CLA | OBD-CAD | 2.39 | 1.26 | 1.22 |
| 12 | cB | 919 | CLA | C4B-CHC | 2.39 | 1.47 | 1.41 |
| 12 | cB | 931 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | aF | 202 | CLA | C4C-C3C | 2.39 | 1.49 | 1.45 |
| 12 | cA | 807 | CLA | C4B-CHC | 2.39 | 1.47 | 1.41 |
| 12 | aA | 817 | CLA | C4B-CHC | 2.39 | 1.47 | 1.41 |
| 12 | bA | 803 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 12 | cB | 906 | CLA | C1C-C2C | 2.39 | 1.49 | 1.44 |
| 15 | bA | 846 | BCR | C30-C25 | -2.39 | 1.50 | 1.53 |
| 12 | bA | 805 | CLA | C1C-C2C | 2.39 | 1.49 | 1.44 |
| 15 | bF | 204 | BCR | C1-C6 | -2.39 | 1.50 | 1.53 |
| 12 | bB | 937 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | aB | 949 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 12 | cA | 853 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | aB | 906 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | cB | 937 | CLA | OBD-CAD | 2.39 | 1.26 | 1.22 |
| 12 | aB | 906 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | cF | 202 | CLA | C4C-C3C | 2.39 | 1.49 | 1.45 |
| 12 | cB | 928 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 838 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 12 | aA | 833 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | aA | 812 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | aA | 818 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | cL | 203 | CLA | C1C-C2C | 2.39 | 1.49 | 1.44 |
| 12 | bA | 824 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 12 | aB | 931 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | cB | 922 | CLA | C1C-NC | -2.39 | 1.34 | 1.37 |
| 12 | cB | 910 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | cA | 833 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | aB | 912 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | aB | 908 | CLA | CMB-C2B | -2.39 | 1.46 | 1.51 |
| 12 | aB | 934 | CLA | C4B-CHC | 2.39 | 1.47 | 1.41 |
| 12 | cF | 202 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | bA | 807 | CLA | C4B-CHC | 2.39 | 1.47 | 1.41 |
| 12 | aB | 937 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | aB | 928 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | cL | 203 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | bL | 203 | CLA | C4D-CHA | 2.39 | 1.46 | 1.38 |
| 12 | cB | 901 | CLA | C3D-C4D | -2.39 | 1.38 | 1.44 |
| 12 | aB | 919 | CLA | C4B-CHC | 2.38 | 1.47 | 1.41 |
| 12 | cA | 812 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 12 | cB | 914 | CLA | C4B-CHC | 2.38 | 1.47 | 1.41 |
| 12 | bA | 816 | CLA | C1C-C2C | 2.38 | 1.49 | 1.44 |
| 12 | bA | 806 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | bA | 853 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | bB | 903 | CLA | C4B-CHC | 2.38 | 1.47 | 1.41 |
| 12 | bB | 937 | CLA | OBD-CAD | 2.38 | 1.26 | 1.22 |
| 12 | bA | 818 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | cA | 826 | CLA | C3D-C4D | -2.38 | 1.38 | 1.44 |
| 12 | cB | 949 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 12 | aB | 922 | CLA | C4B-NB | -2.38 | 1.33 | 1.35 |
| 12 | aA | 838 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | aA | 854 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | bA | 839 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | aA | 815 | CLA | C3D-C4D | -2.38 | 1.38 | 1.44 |
| 12 | bA | 817 | CLA | C4B-CHC | 2.38 | 1.47 | 1.41 |
| 12 | aA | 834 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | cB | 925 | CLA | C1C-NC | -2.38 | 1.34 | 1.37 |
| 12 | cB | 909 | CLA | OBD-CAD | 2.38 | 1.26 | 1.22 |
| 12 | cA | 817 | CLA | C4B-CHC | 2.38 | 1.47 | 1.41 |
| 12 | aB | 923 | CLA | C4B-CHC | 2.38 | 1.47 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 804 | CLA | C3D-C4D | -2.38 | 1.38 | 1.44 |
| 12 | aA | 825 | CLA | C3D-C4D | -2.38 | 1.38 | 1.44 |
| 12 | aA | 819 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | cB | 927 | CLA | C4D-CHA | 2.38 | 1.46 | 1.38 |
| 12 | cA | 812 | CLA | C3D-C4D | -2.38 | 1.38 | 1.44 |
| 12 | cA | 815 | CLA | C3D-C4D | -2.38 | 1.38 | 1.44 |
| 12 | cB | 912 | CLA | C3D-C4D | -2.38 | 1.38 | 1.44 |
| 12 | cA | 808 | CLA | C1B-NB | -2.38 | 1.33 | 1.35 |
| 12 | bB | 919 | CLA | C4B-CHC | 2.38 | 1.47 | 1.41 |
| 12 | bB | 910 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | aA | 813 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | aB | 908 | CLA | OBD-CAD | 2.37 | 1.26 | 1.22 |
| 12 | aL | 203 | CLA | C4B-CHC | 2.37 | 1.47 | 1.41 |
| 12 | cA | 821 | CLA | C4B-CHC | 2.37 | 1.47 | 1.41 |
| 12 | bA | 833 | CLA | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 12 | bB | 937 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | cA | 804 | CLA | C4B-NB | -2.37 | 1.33 | 1.35 |
| 12 | cA | 805 | CLA | C4B-CHC | 2.37 | 1.47 | 1.41 |
| 12 | aB | 906 | CLA | C1C-C2C | 2.37 | 1.49 | 1.44 |
| 12 | cA | 804 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | aB | 927 | CLA | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 12 | aB | 903 | CLA | C4B-CHC | 2.37 | 1.47 | 1.41 |
| 12 | cB | 937 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | bA | 815 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | cA | 853 | CLA | C4B-CHC | 2.37 | 1.47 | 1.41 |
| 12 | bA | 819 | CLA | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 12 | cB | 937 | CLA | C4C-C3C | 2.37 | 1.49 | 1.45 |
| 12 | aA | 839 | CLA | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 12 | cA | 806 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 12 | aL | 203 | CLA | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 12 | bB | 931 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | cA | 806 | CLA | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 12 | aB | 910 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | aB | 938 | CLA | C1C-NC | -2.37 | 1.34 | 1.37 |
| 12 | aB | 939 | CLA | C1B-CHB | 2.37 | 1.47 | 1.41 |
| 12 | cL | 203 | CLA | C4B-CHC | 2.37 | 1.47 | 1.41 |
| 12 | bB | 903 | CLA | C3D-C4D | -2.37 | 1.38 | 1.44 |
| 12 | cA | 819 | CLA | C4D-CHA | 2.37 | 1.46 | 1.38 |
| 12 | bA | 834 | CLA | C4D-CHA | 2.36 | 1.46 | 1.38 |
| 12 | cB | 908 | CLA | CMB-C2B | -2.36 | 1.46 | 1.51 |
| 12 | aA | 806 | CLA | C4D-CHA | 2.36 | 1.46 | 1.38 |
| 12 | bB | 903 | CLA | C1C-C2C | 2.36 | 1.49 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 923 | CLA | C4B-CHC | 2.36 | 1.47 | 1.41 |
| 12 | aB | 912 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 12 | aB | 909 | CLA | OBD-CAD | 2.36 | 1.26 | 1.22 |
| 12 | aA | 835 | CLA | C1C-C2C | 2.36 | 1.49 | 1.44 |
| 12 | bA | 853 | CLA | C4B-CHC | 2.36 | 1.47 | 1.41 |
| 12 | aA | 844 | CLA | C3D-C4D | -2.36 | 1.38 | 1.44 |
| 15 | aA | 851 | BCR | C1-C6 | -2.36 | 1.50 | 1.53 |
| 12 | aL | 203 | CLA | C1C-C2C | 2.36 | 1.49 | 1.44 |
| 12 | bL | 203 | CLA | C1C-C2C | 2.36 | 1.49 | 1.44 |
| 12 | cB | 939 | CLA | C1B-CHB | 2.36 | 1.47 | 1.41 |
| 12 | bB | 935 | CLA | C1C-C2C | 2.36 | 1.49 | 1.44 |
| 12 | bA | 825 | CLA | C3D-C4D | -2.36 | 1.38 | 1.44 |
| 12 | aA | 826 | CLA | C3D-C4D | -2.36 | 1.38 | 1.44 |
| 12 | bA | 837 | CLA | C4C-C3C | 2.36 | 1.49 | 1.45 |
| 12 | bA | 834 | CLA | C4C-C3C | 2.36 | 1.49 | 1.45 |
| 12 | cL | 204 | CLA | C3D-C4D | -2.36 | 1.38 | 1.44 |
| 12 | bB | 912 | CLA | C3D-C4D | -2.36 | 1.38 | 1.44 |
| 12 | cB | 903 | CLA | C3D-C4D | -2.36 | 1.38 | 1.44 |
| 12 | aB | 903 | CLA | C3D-C4D | -2.36 | 1.38 | 1.44 |
| 12 | cA | 809 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 12 | cB | 912 | CLA | C1C-NC | -2.36 | 1.34 | 1.37 |
| 12 | aA | 821 | CLA | C4B-CHC | 2.36 | 1.47 | 1.41 |
| 12 | bB | 927 | CLA | C4D-CHA | 2.35 | 1.46 | 1.38 |
| 12 | cB | 916 | CLA | C4B-CHC | 2.35 | 1.47 | 1.41 |
| 12 | bL | 204 | CLA | C3D-C4D | -2.35 | 1.38 | 1.44 |
| 13 | aB | 940 | 1L3 | O05-C04 | -2.35 | 1.18 | 1.23 |
| 12 | cA | 834 | CLA | C4D-CHA | 2.35 | 1.46 | 1.38 |
| 12 | bL | 203 | CLA | C4B-CHC | 2.35 | 1.47 | 1.41 |
| 12 | bB | 937 | CLA | C4C-C3C | 2.35 | 1.49 | 1.45 |
| 12 | bB | 949 | CLA | C3D-C4D | -2.35 | 1.38 | 1.44 |
| 12 | cB | 935 | CLA | C1C-C2C | 2.35 | 1.49 | 1.44 |
| 12 | aB | 931 | CLA | C1C-C2C | 2.35 | 1.49 | 1.44 |
| 12 | cB | 931 | CLA | C1C-C2C | 2.35 | 1.49 | 1.44 |
| 12 | bA | 804 | CLA | C3D-C4D | -2.35 | 1.38 | 1.44 |
| 12 | bA | 821 | CLA | C4B-CHC | 2.35 | 1.47 | 1.41 |
| 12 | bB | 922 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 12 | aB | 937 | CLA | OBD-CAD | 2.35 | 1.26 | 1.22 |
| 12 | aB | 935 | CLA | C1C-C2C | 2.35 | 1.49 | 1.44 |
| 12 | aA | 818 | CLA | C3D-C4D | -2.35 | 1.38 | 1.44 |
| 12 | aB | 902 | CLA | C4D-CHA | 2.35 | 1.46 | 1.38 |
| 12 | cB | 903 | CLA | C4B-CHC | 2.35 | 1.47 | 1.41 |
| 12 | bB | 902 | CLA | C4D-CHA | 2.35 | 1.46 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 929 | CLA | C1C-C2C | 2.35 | 1.49 | 1.44 |
| 12 | bA | 835 | CLA | C1C-C2C | 2.35 | 1.49 | 1.44 |
| 12 | bA | 818 | CLA | C3D-C4D | -2.35 | 1.38 | 1.44 |
| 12 | bB | 925 | CLA | C1C-NC | -2.35 | 1.34 | 1.37 |
| 12 | cB | 902 | CLA | C4D-CHA | 2.35 | 1.46 | 1.38 |
| 13 | bB | 940 | 1L3 | O05-C04 | -2.35 | 1.18 | 1.23 |
| 12 | bA | 813 | CLA | C3D-C4D | -2.35 | 1.38 | 1.44 |
| 12 | aL | 204 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 12 | bA | 806 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 12 | bB | 912 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 12 | aA | 816 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | bB | 939 | CLA | C1B-CHB | 2.34 | 1.47 | 1.41 |
| 17 | aB | 947 | LMG | O1-C7 | -2.34 | 1.39 | 1.43 |
| 12 | bB | 906 | CLA | C1C-C2C | 2.34 | 1.49 | 1.44 |
| 12 | cA | 803 | CLA | C4D-CHA | 2.34 | 1.46 | 1.38 |
| 12 | bB | 929 | CLA | C1C-C2C | 2.34 | 1.49 | 1.44 |
| 12 | cA | 838 | CLA | C4B-CHC | 2.34 | 1.47 | 1.41 |
| 12 | cA | 810 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | bA | 841 | CLA | C1C-C2C | 2.34 | 1.49 | 1.44 |
| 12 | cA | 816 | CLA | C1C-C2C | 2.34 | 1.49 | 1.44 |
| 12 | cA | 835 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | cL | 202 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | cB | 911 | CLA | C4B-CHC | 2.34 | 1.47 | 1.41 |
| 12 | aA | 826 | CLA | C1C-C2C | 2.34 | 1.49 | 1.44 |
| 12 | aB | 950 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | aA | 810 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | aL | 204 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | bB | 950 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | cA | 818 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 12 | aB | 925 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 12 | bA | 805 | CLA | C4B-CHC | 2.34 | 1.47 | 1.41 |
| 12 | bB | 911 | CLA | C4B-CHC | 2.34 | 1.47 | 1.41 |
| 12 | cA | 834 | CLA | C4C-C3C | 2.34 | 1.49 | 1.45 |
| 12 | cA | 825 | CLA | C3D-C4D | -2.34 | 1.38 | 1.44 |
| 15 | cB | 946 | BCR | C1-C6 | -2.34 | 1.50 | 1.53 |
| 12 | aA | 829 | CLA | C1C-NC | -2.34 | 1.34 | 1.37 |
| 17 | bB | 947 | LMG | O1-C7 | -2.34 | 1.39 | 1.43 |
| 12 | cA | 813 | CLA | C3D-C4D | -2.33 | 1.38 | 1.44 |
| 12 | bA | 826 | CLA | C3D-C4D | -2.33 | 1.38 | 1.44 |
| 12 | bA | 803 | CLA | C4D-CHA | 2.33 | 1.46 | 1.38 |
| 12 | aB | 903 | CLA | C1C-C2C | 2.33 | 1.49 | 1.44 |
| 12 | cA | 835 | CLA | C1C-C2C | 2.33 | 1.49 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 835 | CLA | C3D-C4D | -2.33 | 1.38 | 1.44 |
| 12 | bB | 916 | CLA | C4B-CHC | 2.33 | 1.47 | 1.41 |
| 12 | bA | 809 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 12 | aA | 805 | CLA | C4B-CHC | 2.33 | 1.47 | 1.41 |
| 12 | aA | 816 | CLA | C1C-C2C | 2.33 | 1.49 | 1.44 |
| 12 | aA | 803 | CLA | C4D-CHA | 2.33 | 1.46 | 1.38 |
| 12 | cA | 835 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 12 | cB | 904 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 12 | cB | 923 | CLA | C4B-CHC | 2.33 | 1.47 | 1.41 |
| 12 | cA | 832 | CLA | C1C-C2C | 2.33 | 1.49 | 1.44 |
| 11 | aA | 801 | CL0 | C1B-CHB | 2.33 | 1.47 | 1.41 |
| 12 | aA | 841 | CLA | C1C-C2C | 2.33 | 1.49 | 1.44 |
| 15 | bF | 201 | BCR | C30-C25 | -2.33 | 1.50 | 1.53 |
| 12 | bB | 933 | CLA | C4B-CHC | 2.33 | 1.47 | 1.41 |
| 12 | cA | 853 | CLA | C1C-C2C | 2.33 | 1.49 | 1.44 |
| 12 | bA | 835 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 12 | bA | 835 | CLA | C3D-C4D | -2.33 | 1.38 | 1.44 |
| 12 | aA | 834 | CLA | C4C-C3C | 2.33 | 1.49 | 1.45 |
| 12 | bA | 808 | CLA | C4C-C3C | 2.33 | 1.49 | 1.45 |
| 12 | cA | 814 | CLA | C4C-C3C | 2.33 | 1.49 | 1.45 |
| 12 | aA | 854 | CLA | C1C-C2C | 2.33 | 1.49 | 1.44 |
| 12 | bB | 904 | CLA | C1C-NC | -2.33 | 1.34 | 1.37 |
| 12 | cB | 934 | CLA | C4C-C3C | 2.33 | 1.49 | 1.45 |
| 11 | cA | 801 | CL0 | C1B-CHB | 2.33 | 1.47 | 1.41 |
| 15 | aB | 946 | BCR | C30-C25 | -2.32 | 1.50 | 1.53 |
| 12 | cB | 922 | CLA | C4B-NB | -2.32 | 1.33 | 1.35 |
| 12 | cB | 929 | CLA | C1C-C2C | 2.32 | 1.49 | 1.44 |
| 12 | cB | 933 | CLA | C4B-CHC | 2.32 | 1.47 | 1.41 |
| 12 | aB | 904 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 15 | bL | 206 | BCR | C1-C6 | -2.32 | 1.50 | 1.53 |
| 15 | cF | 201 | BCR | C30-C25 | -2.32 | 1.50 | 1.53 |
| 12 | aA | 806 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 12 | bA | 829 | CLA | C1C-NC | -2.32 | 1.34 | 1.37 |
| 11 | bA | 801 | CL0 | C1B-CHB | 2.32 | 1.47 | 1.41 |
| 12 | aA | 838 | CLA | C4B-CHC | 2.32 | 1.47 | 1.41 |
| 12 | bL | 202 | CLA | C3D-C4D | -2.32 | 1.38 | 1.44 |
| 12 | aB | 916 | CLA | C4B-CHC | 2.32 | 1.47 | 1.41 |
| 12 | aB | 929 | CLA | C3D-C4D | -2.32 | 1.38 | 1.44 |
| 12 | bA | 853 | CLA | C1C-C2C | 2.32 | 1.49 | 1.44 |
| 15 | aF | 201 | BCR | C30-C25 | -2.32 | 1.50 | 1.53 |
| 12 | aB | 901 | CLA | C4B-NB | -2.32 | 1.33 | 1.35 |
| 12 | bB | 929 | CLA | C4B-CHC | 2.32 | 1.47 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 802 | CLA | C3D-C4D | -2.32 | 1.38 | 1.44 |
| 12 | cA | 812 | CLA | C4B-CHC | 2.32 | 1.47 | 1.41 |
| 15 | cL | 205 | BCR | C1-C6 | -2.32 | 1.50 | 1.53 |
| 12 | bA | 802 | CLA | C3D-C4D | -2.32 | 1.38 | 1.44 |
| 12 | cB | 903 | CLA | C1C-C2C | 2.32 | 1.49 | 1.44 |
| 15 | aA | 847 | BCR | C30-C25 | -2.32 | 1.50 | 1.53 |
| 12 | cA | 811 | CLA | C3D-C4D | -2.32 | 1.38 | 1.44 |
| 12 | bA | 810 | CLA | C3D-C4D | -2.32 | 1.38 | 1.44 |
| 17 | cB | 947 | LMG | O1-C7 | -2.32 | 1.39 | 1.43 |
| 12 | bA | 814 | CLA | C1B-CHB | 2.32 | 1.47 | 1.41 |
| 15 | cL | 206 | BCR | C1-C6 | -2.32 | 1.50 | 1.53 |
| 13 | cB | 940 | 1L3 | O05-C04 | -2.31 | 1.18 | 1.23 |
| 15 | bL | 201 | BCR | C33-C5 | -2.31 | 1.47 | 1.50 |
| 12 | aL | 202 | CLA | C3D-C4D | -2.31 | 1.39 | 1.44 |
| 12 | bA | 826 | CLA | C1C-C2C | 2.31 | 1.49 | 1.44 |
| 12 | aB | 916 | CLA | C4D-CHA | 2.31 | 1.46 | 1.38 |
| 12 | bB | 931 | CLA | C1C-C2C | 2.31 | 1.49 | 1.44 |
| 12 | aA | 811 | CLA | C4B-NB | -2.31 | 1.33 | 1.35 |
| 12 | aB | 933 | CLA | C4B-CHC | 2.31 | 1.47 | 1.41 |
| 12 | bA | 811 | CLA | C3D-C4D | -2.31 | 1.39 | 1.44 |
| 12 | bB | 929 | CLA | C3D-C4D | -2.31 | 1.39 | 1.44 |
| 12 | cA | 840 | CLA | C3D-C4D | -2.31 | 1.39 | 1.44 |
| 12 | aA | 809 | CLA | C1C-NC | -2.31 | 1.34 | 1.37 |
| 12 | aB | 912 | CLA | C4D-CHA | 2.31 | 1.46 | 1.38 |
| 12 | bA | 824 | CLA | C4B-NB | -2.31 | 1.33 | 1.35 |
| 12 | cB | 912 | CLA | C4D-CHA | 2.31 | 1.46 | 1.38 |
| 12 | aB | 911 | CLA | C4B-CHC | 2.31 | 1.47 | 1.41 |
| 16 | bB | 948 | LHG | P-O6 | 2.31 | 1.68 | 1.59 |
| 12 | cL | 202 | CLA | C4B-NB | -2.31 | 1.33 | 1.35 |
| 12 | bA | 838 | CLA | C4B-CHC | 2.31 | 1.47 | 1.41 |
| 12 | cB | 904 | CLA | C1C-C2C | 2.31 | 1.49 | 1.44 |
| 12 | bA | 843 | CLA | C1B-CHB | 2.31 | 1.47 | 1.41 |
| 12 | cB | 949 | CLA | C3D-C4D | -2.31 | 1.39 | 1.44 |
| 12 | cB | 935 | CLA | C4B-CHC | 2.31 | 1.47 | 1.41 |
| 15 | aL | 206 | BCR | C1-C6 | -2.31 | 1.50 | 1.53 |
| 12 | aA | 843 | CLA | C1B-CHB | 2.31 | 1.47 | 1.41 |
| 15 | bB | 944 | BCR | C30-C25 | -2.30 | 1.50 | 1.53 |
| 12 | bB | 902 | CLA | C4B-NB | -2.30 | 1.33 | 1.35 |
| 12 | bB | 920 | CLA | C1B-NB | -2.30 | 1.33 | 1.35 |
| 16 | aB | 948 | LHG | P-O6 | 2.30 | 1.68 | 1.59 |
| 12 | aB | 920 | CLA | C4B-CHC | 2.30 | 1.47 | 1.41 |
| 12 | aA | 812 | CLA | C4B-CHC | 2.30 | 1.47 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 916 | CLA | C4D-CHA | 2.30 | 1.46 | 1.38 |
| 15 | aL | 205 | BCR | C1-C6 | -2.30 | 1.50 | 1.53 |
| 12 | bB | 911 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 12 | cB | 920 | CLA | C4B-CHC | 2.30 | 1.47 | 1.41 |
| 12 | bA | 840 | CLA | C3D-C4D | -2.30 | 1.39 | 1.44 |
| 12 | aA | 831 | CLA | C4B-NB | -2.30 | 1.33 | 1.35 |
| 15 | cA | 846 | BCR | C30-C25 | -2.30 | 1.50 | 1.53 |
| 12 | aA | 804 | CLA | C1B-CHB | 2.30 | 1.47 | 1.41 |
| 12 | cB | 913 | CLA | C1C-C2C | 2.30 | 1.49 | 1.44 |
| 12 | aB | 937 | CLA | C4C-C3C | 2.30 | 1.49 | 1.45 |
| 12 | bB | 912 | CLA | C4D-CHA | 2.30 | 1.46 | 1.38 |
| 12 | aA | 808 | CLA | C3D-C4D | -2.30 | 1.39 | 1.44 |
| 12 | cA | 838 | CLA | C1C-C2C | 2.30 | 1.49 | 1.44 |
| 15 | bL | 205 | BCR | C1-C6 | -2.30 | 1.50 | 1.53 |
| 12 | cA | 836 | CLA | C3D-C4D | -2.30 | 1.39 | 1.44 |
| 15 | aL | 201 | BCR | C33-C5 | -2.30 | 1.47 | 1.50 |
| 12 | aA | 814 | CLA | C1B-CHB | 2.30 | 1.47 | 1.41 |
| 12 | aA | 822 | CLA | C1C-C2C | 2.30 | 1.49 | 1.44 |
| 12 | cA | 828 | CLA | C4D-CHA | 2.30 | 1.46 | 1.38 |
| 12 | aB | 920 | CLA | C3D-C4D | -2.30 | 1.39 | 1.44 |
| 12 | cL | 204 | CLA | C1B-CHB | 2.30 | 1.47 | 1.41 |
| 12 | bB | 916 | CLA | C1C-NC | -2.30 | 1.34 | 1.37 |
| 12 | aA | 814 | CLA | C4C-C3C | 2.30 | 1.49 | 1.45 |
| 12 | bA | 838 | CLA | C1C-C2C | 2.29 | 1.49 | 1.44 |
| 12 | aB | 929 | CLA | C4B-CHC | 2.29 | 1.47 | 1.41 |
| 12 | bB | 921 | CLA | C4C-C3C | 2.29 | 1.49 | 1.45 |
| 12 | cA | 808 | CLA | C4C-C3C | 2.29 | 1.49 | 1.45 |
| 12 | aL | 204 | CLA | C1B-CHB | 2.29 | 1.47 | 1.41 |
| 12 | cA | 831 | CLA | C4B-NB | -2.29 | 1.33 | 1.35 |
| 12 | cB | 920 | CLA | C1B-NB | -2.29 | 1.33 | 1.35 |
| 12 | aB | 949 | CLA | C3D-C4D | -2.29 | 1.39 | 1.44 |
| 12 | cA | 821 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 12 | cA | 843 | CLA | C1B-CHB | 2.29 | 1.47 | 1.41 |
| 12 | cA | 822 | CLA | C1C-C2C | 2.29 | 1.49 | 1.44 |
| 12 | bB | 920 | CLA | C3D-C4D | -2.29 | 1.39 | 1.44 |
| 15 | cB | 946 | BCR | C30-C25 | -2.29 | 1.50 | 1.53 |
| 12 | bB | 937 | CLA | C4B-CHC | 2.29 | 1.47 | 1.41 |
| 12 | cA | 814 | CLA | C1B-CHB | 2.29 | 1.47 | 1.41 |
| 12 | aA | 824 | CLA | C4B-NB | -2.29 | 1.33 | 1.35 |
| 12 | bB | 917 | CLA | C3D-C4D | -2.29 | 1.39 | 1.44 |
| 12 | aB | 935 | CLA | C4B-CHC | 2.29 | 1.47 | 1.41 |
| 12 | aA | 828 | CLA | C4D-CHA | 2.29 | 1.46 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 916 | CLA | C4D-CHA | 2.29 | 1.46 | 1.38 |
| 12 | bB | 935 | CLA | C4B-CHC | 2.29 | 1.47 | 1.41 |
| 11 | bA | 801 | CL0 | C4C-C3C | 2.29 | 1.49 | 1.45 |
| 12 | cF | 202 | CLA | C1B-NB | -2.29 | 1.33 | 1.35 |
| 12 | bB | 904 | CLA | C1C-C2C | 2.29 | 1.49 | 1.44 |
| 12 | bB | 926 | CLA | C4D-CHA | 2.29 | 1.46 | 1.38 |
| 12 | bB | 920 | CLA | C4B-CHC | 2.29 | 1.47 | 1.41 |
| 12 | aB | 902 | CLA | C4B-NB | -2.29 | 1.33 | 1.35 |
| 12 | aA | 802 | CLA | C3D-C4D | -2.29 | 1.39 | 1.44 |
| 12 | aB | 912 | CLA | C4C-C3C | 2.29 | 1.49 | 1.45 |
| 12 | cB | 929 | CLA | C4B-CHC | 2.29 | 1.47 | 1.41 |
| 12 | bA | 819 | CLA | C1C-NC | -2.29 | 1.34 | 1.37 |
| 12 | bA | 831 | CLA | C4B-NB | -2.29 | 1.33 | 1.35 |
| 12 | aB | 917 | CLA | C3D-C4D | -2.29 | 1.39 | 1.44 |
| 12 | aA | 854 | CLA | C3D-C4D | -2.28 | 1.39 | 1.44 |
| 12 | cA | 841 | CLA | C1C-C2C | 2.28 | 1.49 | 1.44 |
| 12 | bB | 922 | CLA | C4B-NB | -2.28 | 1.33 | 1.35 |
| 12 | aA | 840 | CLA | C3D-C4D | -2.28 | 1.39 | 1.44 |
| 12 | cB | 927 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 12 | aA | 826 | CLA | C4B-CHC | 2.28 | 1.47 | 1.41 |
| 12 | cB | 917 | CLA | C3D-C4D | -2.28 | 1.39 | 1.44 |
| 12 | bA | 804 | CLA | C1B-CHB | 2.28 | 1.47 | 1.41 |
| 12 | cA | 809 | CLA | C4B-NB | -2.28 | 1.33 | 1.35 |
| 12 | aB | 921 | CLA | C4C-C3C | 2.28 | 1.49 | 1.45 |
| 12 | cB | 921 | CLA | C4C-C3C | 2.28 | 1.49 | 1.45 |
| 12 | aA | 813 | CLA | C1C-C2C | 2.28 | 1.49 | 1.44 |
| 12 | bA | 828 | CLA | C4D-CHA | 2.28 | 1.46 | 1.38 |
| 12 | cA | 826 | CLA | C1C-C2C | 2.28 | 1.49 | 1.44 |
| 12 | cB | 926 | CLA | C4D-CHA | 2.28 | 1.46 | 1.38 |
| 12 | bA | 827 | CLA | C4B-CHC | 2.28 | 1.47 | 1.41 |
| 12 | aB | 937 | CLA | C4B-CHC | 2.28 | 1.47 | 1.41 |
| 12 | aA | 838 | CLA | C1C-C2C | 2.28 | 1.49 | 1.44 |
| 12 | aB | 925 | CLA | C1C-C2C | 2.28 | 1.49 | 1.44 |
| 12 | bA | 822 | CLA | C1C-C2C | 2.28 | 1.49 | 1.44 |
| 12 | bA | 808 | CLA | C3D-C4D | -2.28 | 1.39 | 1.44 |
| 12 | bB | 901 | CLA | C4D-CHA | 2.28 | 1.46 | 1.38 |
| 12 | bB | 927 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 12 | cA | 808 | CLA | C3D-C4D | -2.28 | 1.39 | 1.44 |
| 12 | bL | 204 | CLA | C1B-CHB | 2.28 | 1.47 | 1.41 |
| 15 | bB | 946 | BCR | C30-C25 | -2.28 | 1.50 | 1.53 |
| 12 | aB | 904 | CLA | C1C-C2C | 2.28 | 1.49 | 1.44 |
| 12 | aA | 836 | CLA | C3D-C4D | -2.28 | 1.39 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 929 | CLA | C3D-C4D | -2.28 | 1.39 | 1.44 |
| 12 | cA | 827 | CLA | C4B-CHC | 2.28 | 1.47 | 1.41 |
| 12 | bA | 820 | CLA | C4B-CHC | 2.28 | 1.47 | 1.41 |
| 12 | aA | 834 | CLA | C1C-NC | -2.28 | 1.34 | 1.37 |
| 12 | bB | 906 | CLA | C4B-CHC | 2.28 | 1.47 | 1.41 |
| 12 | cB | 926 | CLA | C3D-C4D | -2.28 | 1.39 | 1.44 |
| 12 | bA | 814 | CLA | C4C-C3C | 2.28 | 1.49 | 1.45 |
| 12 | cA | 806 | CLA | C4C-C3C | 2.28 | 1.49 | 1.45 |
| 12 | bB | 927 | CLA | C1C-C2C | 2.28 | 1.49 | 1.44 |
| 12 | bA | 811 | CLA | C4B-NB | -2.27 | 1.33 | 1.35 |
| 12 | bB | 934 | CLA | C4C-C3C | 2.27 | 1.49 | 1.45 |
| 11 | aA | 801 | CL0 | C4D-CHA | 2.27 | 1.46 | 1.38 |
| 11 | cA | 801 | CL0 | C4C-C3C | 2.27 | 1.49 | 1.45 |
| 13 | bA | 844 | 1L3 | O05-C04 | -2.27 | 1.18 | 1.23 |
| 12 | aB | 901 | CLA | C4D-CHA | 2.27 | 1.46 | 1.38 |
| 12 | bA | 832 | CLA | C1C-C2C | 2.27 | 1.49 | 1.44 |
| 12 | cA | 804 | CLA | C1B-CHB | 2.27 | 1.47 | 1.41 |
| 12 | cA | 828 | CLA | C1C-C2C | 2.27 | 1.49 | 1.44 |
| 12 | bA | 812 | CLA | C4B-CHC | 2.27 | 1.47 | 1.41 |
| 12 | bB | 926 | CLA | C3D-C4D | -2.27 | 1.39 | 1.44 |
| 12 | aB | 923 | CLA | C4D-CHA | 2.27 | 1.46 | 1.38 |
| 12 | bB | 909 | CLA | C1B-CHB | 2.27 | 1.47 | 1.41 |
| 15 | aB | 944 | BCR | C30-C25 | -2.27 | 1.50 | 1.53 |
| 12 | aA | 819 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 12 | aL | 202 | CLA | C4C-C3C | 2.27 | 1.48 | 1.45 |
| 12 | bL | 202 | CLA | C4B-NB | -2.27 | 1.33 | 1.35 |
| 12 | aB | 927 | CLA | C3D-C4D | -2.27 | 1.39 | 1.44 |
| 12 | cA | 853 | CLA | C3D-C4D | -2.27 | 1.39 | 1.44 |
| 12 | aF | 202 | CLA | C1C-C2C | 2.27 | 1.49 | 1.44 |
| 16 | cB | 948 | LHG | P-O6 | 2.27 | 1.68 | 1.59 |
| 12 | aL | 202 | CLA | C4B-CHC | 2.27 | 1.47 | 1.41 |
| 12 | aA | 806 | CLA | C4C-C3C | 2.27 | 1.48 | 1.45 |
| 12 | cB | 937 | CLA | C4B-CHC | 2.27 | 1.47 | 1.41 |
| 15 | cL | 201 | BCR | C33-C5 | -2.27 | 1.47 | 1.50 |
| 12 | bA | 808 | CLA | C4B-CHC | 2.27 | 1.47 | 1.41 |
| 12 | bB | 912 | CLA | C4C-C3C | 2.27 | 1.48 | 1.45 |
| 12 | aB | 933 | CLA | C3D-C4D | -2.27 | 1.39 | 1.44 |
| 12 | cB | 927 | CLA | C3D-C4D | -2.27 | 1.39 | 1.44 |
| 12 | cB | 928 | CLA | C1B-CHB | 2.27 | 1.47 | 1.41 |
| 12 | aB | 920 | CLA | C1B-NB | -2.27 | 1.33 | 1.35 |
| 11 | bA | 801 | CL0 | C4D-CHA | 2.27 | 1.46 | 1.38 |
| 12 | cB | 923 | CLA | C4D-CHA | 2.27 | 1.46 | 1.38 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 933 | CLA | C3D-C4D | -2.27 | 1.39 | 1.44 |
| 12 | cA | 834 | CLA | C1C-NC | -2.27 | 1.34 | 1.37 |
| 11 | cA | 801 | CL0 | C4D-CHA | 2.26 | 1.46 | 1.38 |
| 12 | cA | 809 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | aA | 821 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 12 | cB | 933 | CLA | C3D-C4D | -2.26 | 1.39 | 1.44 |
| 12 | aB | 909 | CLA | C4C-C3C | 2.26 | 1.48 | 1.45 |
| 12 | aB | 905 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | cB | 906 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 13 | aA | 845 | 1L3 | C23-C21 | 2.26 | 1.56 | 1.51 |
| 12 | cB | 920 | CLA | C3D-C4D | -2.26 | 1.39 | 1.44 |
| 12 | aA | 815 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | aA | 811 | CLA | C3D-C4D | -2.26 | 1.39 | 1.44 |
| 12 | aA | 808 | CLA | C4C-C3C | 2.26 | 1.48 | 1.45 |
| 12 | aA | 828 | CLA | C1C-C2C | 2.26 | 1.48 | 1.44 |
| 12 | cB | 927 | CLA | C1C-C2C | 2.26 | 1.48 | 1.44 |
| 12 | cF | 202 | CLA | C1C-C2C | 2.26 | 1.48 | 1.44 |
| 12 | aB | 913 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 12 | aB | 926 | CLA | C4D-CHA | 2.26 | 1.46 | 1.38 |
| 12 | cA | 820 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | cB | 914 | CLA | C3D-C4D | -2.26 | 1.39 | 1.44 |
| 12 | aA | 820 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | cA | 811 | CLA | C4B-NB | -2.26 | 1.33 | 1.35 |
| 12 | aA | 835 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 12 | bA | 828 | CLA | C1C-C2C | 2.26 | 1.48 | 1.44 |
| 12 | cB | 918 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 12 | cA | 808 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | aB | 909 | CLA | C1B-CHB | 2.26 | 1.47 | 1.41 |
| 12 | bB | 913 | CLA | C1C-C2C | 2.26 | 1.48 | 1.44 |
| 12 | cB | 901 | CLA | C4D-CHA | 2.26 | 1.46 | 1.38 |
| 12 | aA | 827 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | cA | 842 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | bA | 836 | CLA | C3D-C4D | -2.26 | 1.39 | 1.44 |
| 12 | cB | 925 | CLA | C1C-C2C | 2.26 | 1.48 | 1.44 |
| 12 | aA | 836 | CLA | C1B-CHB | 2.26 | 1.47 | 1.41 |
| 12 | cB | 905 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | bA | 815 | CLA | C4B-CHC | 2.26 | 1.47 | 1.41 |
| 12 | aB | 916 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 15 | cB | 943 | BCR | C30-C25 | -2.26 | 1.50 | 1.53 |
| 12 | cA | 813 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 12 | cA | 819 | CLA | C1C-NC | -2.26 | 1.34 | 1.37 |
| 12 | aB | 910 | CLA | C1C-C2C | 2.26 | 1.48 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 832 | CLA | C1C-C2C | 2.26 | 1.48 | 1.44 |
| 12 | cB | 928 | CLA | C4C-C3C | 2.26 | 1.48 | 1.45 |
| 12 | bB | 949 | CLA | C1B-CHB | 2.26 | 1.47 | 1.41 |
| 12 | bA | 826 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | aB | 913 | CLA | C1C-C2C | 2.25 | 1.48 | 1.44 |
| 12 | bB | 923 | CLA | C4D-CHA | 2.25 | 1.46 | 1.38 |
| 12 | aB | 926 | CLA | C3D-C4D | -2.25 | 1.39 | 1.44 |
| 12 | aB | 908 | CLA | C4B-NB | -2.25 | 1.33 | 1.35 |
| 12 | bB | 906 | CLA | C4B-NB | -2.25 | 1.33 | 1.35 |
| 12 | bL | 204 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | cA | 841 | CLA | C3D-C4D | -2.25 | 1.39 | 1.44 |
| 12 | cA | 815 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | aB | 934 | CLA | C4C-C3C | 2.25 | 1.48 | 1.45 |
| 12 | bB | 901 | CLA | C4B-NB | -2.25 | 1.33 | 1.35 |
| 12 | bB | 928 | CLA | C1B-CHB | 2.25 | 1.47 | 1.41 |
| 12 | aA | 809 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | bA | 841 | CLA | C3D-C4D | -2.25 | 1.39 | 1.44 |
| 12 | cB | 912 | CLA | C4C-C3C | 2.25 | 1.48 | 1.45 |
| 12 | bB | 905 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | cA | 826 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | aB | 927 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 12 | aB | 949 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | cA | 836 | CLA | C1B-CHB | 2.25 | 1.47 | 1.41 |
| 12 | cL | 202 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | bA | 809 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | aB | 911 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 12 | bB | 918 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 12 | bL | 202 | CLA | C4B-CHC | 2.25 | 1.47 | 1.41 |
| 12 | bB | 935 | CLA | C1C-NC | -2.25 | 1.34 | 1.37 |
| 12 | aA | 844 | CLA | C1B-CHB | 2.25 | 1.47 | 1.41 |
| 12 | cB | 909 | CLA | C1B-CHB | 2.25 | 1.47 | 1.41 |
| 12 | aA | 805 | CLA | C3D-C4D | -2.25 | 1.39 | 1.44 |
| 12 | bA | 813 | CLA | C1C-C2C | 2.24 | 1.48 | 1.44 |
| 11 | aA | 801 | CL0 | C4C-C3C | 2.24 | 1.48 | 1.45 |
| 12 | cB | 909 | CLA | C1C-C2C | 2.24 | 1.48 | 1.44 |
| 12 | bA | 813 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 12 | aB | 927 | CLA | C1C-C2C | 2.24 | 1.48 | 1.44 |
| 12 | aB | 921 | CLA | C4B-CHC | 2.24 | 1.47 | 1.41 |
| 12 | bB | 950 | CLA | C1B-CHB | 2.24 | 1.47 | 1.41 |
| 12 | aB | 928 | CLA | C4C-C3C | 2.24 | 1.48 | 1.45 |
| 12 | aA | 808 | CLA | C4B-CHC | 2.24 | 1.47 | 1.41 |
| 12 | bA | 821 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 13 | cA | 844 | 1L3 | O05-C04 | -2.24 | 1.18 | 1.23 |
| 12 | bA | 805 | CLA | C3D-C4D | -2.24 | 1.39 | 1.44 |
| 12 | bB | 909 | CLA | C1C-C2C | 2.24 | 1.48 | 1.44 |
| 12 | bB | 925 | CLA | C1C-C2C | 2.24 | 1.48 | 1.44 |
| 12 | bF | 202 | CLA | C1C-C2C | 2.24 | 1.48 | 1.44 |
| 12 | cB | 902 | CLA | C4B-NB | -2.24 | 1.33 | 1.35 |
| 15 | bB | 943 | BCR | C30-C25 | -2.24 | 1.50 | 1.53 |
| 12 | bA | 834 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 13 | aA | 845 | 1L3 | O05-C04 | -2.24 | 1.18 | 1.23 |
| 12 | aB | 909 | CLA | C1C-C2C | 2.24 | 1.48 | 1.44 |
| 12 | bB | 906 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 12 | cA | 829 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 12 | bA | 842 | CLA | C4B-NB | -2.24 | 1.33 | 1.35 |
| 12 | cB | 936 | CLA | C4B-NB | -2.24 | 1.33 | 1.35 |
| 12 | aA | 816 | CLA | C1B-CHB | 2.24 | 1.47 | 1.41 |
| 12 | aA | 842 | CLA | C4B-CHC | 2.24 | 1.47 | 1.41 |
| 12 | cA | 824 | CLA | C4B-NB | -2.24 | 1.33 | 1.35 |
| 12 | aB | 918 | CLA | C1C-NC | -2.24 | 1.34 | 1.37 |
| 12 | cA | 820 | CLA | C1B-CHB | 2.24 | 1.47 | 1.41 |
| 12 | bB | 927 | CLA | C3D-C4D | -2.24 | 1.39 | 1.44 |
| 12 | bA | 853 | CLA | OBD-CAD | 2.24 | 1.26 | 1.22 |
| 12 | aB | 906 | CLA | C4B-CHC | 2.24 | 1.47 | 1.41 |
| 12 | bA | 804 | CLA | C4B-NB | -2.24 | 1.33 | 1.35 |
| 12 | cA | 805 | CLA | C3D-C4D | -2.24 | 1.39 | 1.44 |
| 12 | bA | 820 | CLA | C1B-CHB | 2.23 | 1.47 | 1.41 |
| 12 | bB | 915 | CLA | C4B-CHC | 2.23 | 1.47 | 1.41 |
| 12 | cA | 853 | CLA | C4B-NB | -2.23 | 1.33 | 1.35 |
| 12 | cB | 901 | CLA | C4B-NB | -2.23 | 1.33 | 1.35 |
| 12 | aA | 829 | CLA | C3D-C4D | -2.23 | 1.39 | 1.44 |
| 15 | aB | 943 | BCR | C30-C25 | -2.23 | 1.50 | 1.53 |
| 12 | cA | 813 | CLA | C1C-C2C | 2.23 | 1.48 | 1.44 |
| 12 | bA | 829 | CLA | C3D-C4D | -2.23 | 1.39 | 1.44 |
| 12 | aA | 817 | CLA | C1C-C2C | 2.23 | 1.48 | 1.44 |
| 12 | aA | 841 | CLA | C3D-C4D | -2.23 | 1.39 | 1.44 |
| 12 | cB | 938 | CLA | C1C-C2C | 2.23 | 1.48 | 1.44 |
| 12 | aA | 823 | CLA | C4B-CHC | 2.23 | 1.47 | 1.41 |
| 12 | bA | 842 | CLA | C4B-CHC | 2.23 | 1.47 | 1.41 |
| 12 | aB | 949 | CLA | C1B-CHB | 2.23 | 1.47 | 1.41 |
| 12 | bF | 202 | CLA | C1B-NB | -2.23 | 1.33 | 1.35 |
| 12 | cB | 915 | CLA | C4B-CHC | 2.23 | 1.47 | 1.41 |
| 12 | cB | 921 | CLA | C4B-CHC | 2.23 | 1.47 | 1.41 |
| 12 | cB | 906 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bL | 202 | CLA | C4C-C3C | 2.23 | 1.48 | 1.45 |
| 13 | bA | 844 | 1L3 | C23-C21 | 2.23 | 1.55 | 1.51 |
| 12 | aB | 928 | CLA | C1B-CHB | 2.23 | 1.47 | 1.41 |
| 12 | cB | 949 | CLA | C1B-CHB | 2.23 | 1.47 | 1.41 |
| 12 | bB | 914 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 12 | cB | 916 | CLA | C1C-NC | -2.23 | 1.34 | 1.37 |
| 12 | aB | 915 | CLA | C4B-CHC | 2.23 | 1.47 | 1.41 |
| 15 | cB | 944 | BCR | C30-C25 | -2.23 | 1.50 | 1.53 |
| 12 | aL | 202 | CLA | C4B-NB | -2.23 | 1.33 | 1.35 |
| 12 | cB | 949 | CLA | C4B-CHC | 2.23 | 1.47 | 1.41 |
| 12 | cB | 936 | CLA | C1C-C2C | 2.23 | 1.48 | 1.44 |
| 12 | bB | 930 | CLA | C4B-NB | -2.23 | 1.33 | 1.35 |
| 12 | bA | 823 | CLA | C4B-CHC | 2.23 | 1.47 | 1.41 |
| 12 | cB | 923 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 12 | bA | 836 | CLA | C1B-CHB | 2.22 | 1.47 | 1.41 |
| 12 | bB | 921 | CLA | C4B-CHC | 2.22 | 1.47 | 1.41 |
| 12 | aA | 813 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 12 | aA | 840 | CLA | C4B-CHC | 2.22 | 1.47 | 1.41 |
| 12 | cB | 930 | CLA | C4B-CHC | 2.22 | 1.47 | 1.41 |
| 12 | bA | 853 | CLA | C3D-C4D | -2.22 | 1.39 | 1.44 |
| 12 | bA | 806 | CLA | C4C-C3C | 2.22 | 1.48 | 1.45 |
| 12 | bB | 928 | CLA | C4C-C3C | 2.22 | 1.48 | 1.45 |
| 12 | cB | 935 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 12 | bB | 905 | CLA | C1B-CHB | 2.22 | 1.47 | 1.41 |
| 12 | aB | 914 | CLA | C3D-C4D | -2.22 | 1.39 | 1.44 |
| 12 | bB | 936 | CLA | C1C-C2C | 2.22 | 1.48 | 1.44 |
| 12 | aB | 935 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 12 | bB | 909 | CLA | C4B-CHC | 2.22 | 1.47 | 1.41 |
| 12 | bA | 822 | CLA | C3D-C4D | -2.22 | 1.39 | 1.44 |
| 12 | aB | 938 | CLA | C4B-CHC | 2.22 | 1.47 | 1.41 |
| 12 | cA | 853 | CLA | OBD-CAD | 2.22 | 1.26 | 1.22 |
| 12 | aA | 854 | CLA | OBD-CAD | 2.22 | 1.26 | 1.22 |
| 12 | bA | 802 | CLA | C1C-C2C | 2.22 | 1.48 | 1.44 |
| 12 | aB | 923 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 12 | aB | 950 | CLA | C1B-CHB | 2.22 | 1.47 | 1.41 |
| 12 | aB | 906 | CLA | C1C-NC | -2.22 | 1.34 | 1.37 |
| 12 | aA | 811 | CLA | C1C-NC | -2.21 | 1.34 | 1.37 |
| 12 | cL | 202 | CLA | C4C-C3C | 2.21 | 1.48 | 1.45 |
| 12 | aB | 919 | CLA | C3D-C4D | -2.21 | 1.39 | 1.44 |
| 12 | cA | 802 | CLA | C1C-C2C | 2.21 | 1.48 | 1.44 |
| 12 | cA | 823 | CLA | C4B-CHC | 2.21 | 1.47 | 1.41 |
| 12 | bB | 909 | CLA | C4C-C3C | 2.21 | 1.48 | 1.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 802 | CLA | C1C-C2C | 2.21 | 1.48 | 1.44 |
| 12 | aL | 204 | CLA | C4B-CHC | 2.21 | 1.47 | 1.41 |
| 12 | bB | 949 | CLA | C4B-CHC | 2.21 | 1.47 | 1.41 |
| 12 | cB | 902 | CLA | C4B-CHC | 2.21 | 1.47 | 1.41 |
| 12 | aA | 822 | CLA | C3D-C4D | -2.21 | 1.39 | 1.44 |
| 12 | cB | 914 | CLA | C1C-NC | -2.21 | 1.34 | 1.37 |
| 12 | cB | 910 | CLA | C1C-C2C | 2.21 | 1.48 | 1.44 |
| 12 | bB | 917 | CLA | C4B-NB | -2.21 | 1.33 | 1.35 |
| 15 | cA | 847 | BCR | C1-C6 | -2.21 | 1.50 | 1.53 |
| 12 | aB | 930 | CLA | C4B-CHC | 2.21 | 1.47 | 1.41 |
| 12 | cL | 204 | CLA | C4B-CHC | 2.21 | 1.47 | 1.41 |
| 12 | aB | 936 | CLA | C4C-C3C | 2.21 | 1.48 | 1.45 |
| 12 | aA | 804 | CLA | C4B-NB | -2.21 | 1.33 | 1.35 |
| 13 | cA | 844 | 1L3 | C23-C21 | 2.21 | 1.55 | 1.51 |
| 12 | cB | 911 | CLA | C1C-NC | -2.21 | 1.34 | 1.37 |
| 12 | aA | 820 | CLA | C1B-CHB | 2.21 | 1.47 | 1.41 |
| 12 | bA | 840 | CLA | C4B-CHC | 2.21 | 1.47 | 1.41 |
| 12 | aA | 826 | CLA | C4B-NB | -2.21 | 1.33 | 1.35 |
| 12 | cA | 842 | CLA | C4B-NB | -2.21 | 1.33 | 1.35 |
| 12 | bB | 930 | CLA | C4B-CHC | 2.21 | 1.47 | 1.41 |
| 12 | aB | 930 | CLA | C4B-NB | -2.21 | 1.33 | 1.35 |
| 12 | bB | 938 | CLA | C4B-CHC | 2.20 | 1.47 | 1.41 |
| 11 | aA | 801 | CL0 | C1C-NC | -2.20 | 1.34 | 1.37 |
| 12 | aB | 917 | CLA | C1C-NC | -2.20 | 1.34 | 1.37 |
| 12 | cB | 917 | CLA | C1C-NC | -2.20 | 1.34 | 1.37 |
| 11 | aA | 801 | CL0 | C1C-C2C | 2.20 | 1.48 | 1.44 |
| 12 | aB | 936 | CLA | C1C-C2C | 2.20 | 1.48 | 1.44 |
| 12 | cB | 909 | CLA | C4B-CHC | 2.20 | 1.47 | 1.41 |
| 12 | cB | 919 | CLA | C3D-C4D | -2.20 | 1.39 | 1.44 |
| 12 | cA | 817 | CLA | C1B-NB | -2.20 | 1.33 | 1.35 |
| 12 | bB | 936 | CLA | C1C-NC | -2.20 | 1.34 | 1.37 |
| 12 | cB | 913 | CLA | C1C-NC | -2.20 | 1.34 | 1.37 |
| 12 | bB | 914 | CLA | C3D-C4D | -2.20 | 1.39 | 1.44 |
| 12 | aB | 931 | CLA | C4D-CHA | 2.20 | 1.46 | 1.38 |
| 12 | bB | 908 | CLA | C4B-NB | -2.20 | 1.33 | 1.35 |
| 12 | bB | 910 | CLA | C1C-C2C | 2.20 | 1.48 | 1.44 |
| 12 | cB | 905 | CLA | C1B-CHB | 2.20 | 1.47 | 1.41 |
| 12 | cA | 832 | CLA | C4B-CHC | 2.20 | 1.47 | 1.41 |
| 12 | cB | 931 | CLA | C4D-CHA | 2.20 | 1.46 | 1.38 |
| 12 | cA | 840 | CLA | C4B-CHC | 2.20 | 1.47 | 1.41 |
| 12 | cB | 909 | CLA | C4C-C3C | 2.20 | 1.48 | 1.45 |
| 12 | cB | 938 | CLA | C4B-CHC | 2.20 | 1.47 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bA | 835 | CLA | C4B-CHC | 2.20 | 1.47 | 1.41 |
| 12 | bB | 931 | CLA | C4D-CHA | 2.20 | 1.46 | 1.38 |
| 12 | aA | 823 | CLA | C1C-C2C | 2.19 | 1.48 | 1.44 |
| 12 | bA | 811 | CLA | C1C-NC | -2.19 | 1.34 | 1.37 |
| 12 | bA | 816 | CLA | C1C-NC | -2.19 | 1.34 | 1.37 |
| 12 | aA | 820 | CLA | C3D-C4D | -2.19 | 1.39 | 1.44 |
| 12 | aA | 803 | CLA | C4B-NB | -2.19 | 1.33 | 1.35 |
| 12 | aA | 842 | CLA | C4B-NB | -2.19 | 1.33 | 1.35 |
| 12 | bL | 204 | CLA | C4B-NB | -2.19 | 1.33 | 1.35 |
| 12 | cA | 823 | CLA | C1B-CHB | 2.19 | 1.47 | 1.41 |
| 12 | cA | 835 | CLA | C4B-CHC | 2.19 | 1.47 | 1.41 |
| 12 | bB | 936 | CLA | C4C-C3C | 2.19 | 1.48 | 1.45 |
| 12 | cB | 917 | CLA | C4B-NB | -2.19 | 1.33 | 1.35 |
| 12 | bA | 825 | CLA | C1C-NC | -2.19 | 1.34 | 1.37 |
| 12 | cA | 816 | CLA | C1B-CHB | 2.19 | 1.47 | 1.41 |
| 12 | cA | 829 | CLA | C3D-C4D | -2.19 | 1.39 | 1.44 |
| 12 | cB | 934 | CLA | C3D-C4D | -2.19 | 1.39 | 1.44 |
| 12 | aA | 835 | CLA | C4B-CHC | 2.19 | 1.47 | 1.41 |
| 12 | cB | 908 | CLA | C4B-NB | -2.19 | 1.33 | 1.35 |
| 12 | aB | 909 | CLA | C4B-CHC | 2.19 | 1.47 | 1.41 |
| 11 | cA | 801 | CL0 | C1C-NC | -2.19 | 1.34 | 1.37 |
| 12 | cA | 811 | CLA | C1C-NC | -2.19 | 1.34 | 1.37 |
| 12 | bA | 816 | CLA | C1B-CHB | 2.19 | 1.47 | 1.41 |
| 12 | cB | 930 | CLA | C4B-NB | -2.19 | 1.33 | 1.35 |
| 12 | aB | 934 | CLA | C3D-C4D | -2.19 | 1.39 | 1.44 |
| 11 | bA | 801 | CL0 | C1C-C2C | 2.19 | 1.48 | 1.44 |
| 12 | aA | 839 | CLA | C4B-CHC | 2.19 | 1.47 | 1.41 |
| 12 | aA | 854 | CLA | C4B-NB | -2.19 | 1.33 | 1.35 |
| 12 | bA | 843 | CLA | C4C-C3C | 2.19 | 1.48 | 1.45 |
| 12 | aA | 823 | CLA | C1B-CHB | 2.19 | 1.47 | 1.41 |
| 12 | bB | 919 | CLA | C3D-C4D | -2.18 | 1.39 | 1.44 |
| 12 | aB | 901 | CLA | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 12 | aB | 914 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 12 | cB | 936 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 12 | cA | 818 | CLA | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 12 | cA | 823 | CLA | C1C-C2C | 2.18 | 1.48 | 1.44 |
| 12 | aA | 822 | CLA | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 12 | aA | 826 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 12 | bA | 823 | CLA | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 12 | aB | 905 | CLA | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 12 | bB | 917 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 12 | bA | 817 | CLA | C1C-C2C | 2.18 | 1.48 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 913 | CLA | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 12 | bA | 840 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 12 | bB | 913 | CLA | C1C-NC | -2.18 | 1.34 | 1.37 |
| 12 | bB | 901 | CLA | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 11 | cA | 801 | CL0 | C1C-C2C | 2.18 | 1.48 | 1.44 |
| 12 | bA | 839 | CLA | C4B-CHC | 2.18 | 1.47 | 1.41 |
| 12 | cB | 913 | CLA | C1B-CHB | 2.18 | 1.47 | 1.41 |
| 12 | bB | 902 | CLA | C4B-CHC | 2.17 | 1.47 | 1.41 |
| 12 | bA | 823 | CLA | C1C-C2C | 2.17 | 1.48 | 1.44 |
| 12 | cA | 822 | CLA | C3D-C4D | -2.17 | 1.39 | 1.44 |
| 12 | bB | 921 | CLA | C1C-C2C | 2.17 | 1.48 | 1.44 |
| 12 | aA | 820 | CLA | C1C-NC | -2.17 | 1.34 | 1.37 |
| 12 | aB | 934 | CLA | C1C-C2C | 2.17 | 1.48 | 1.44 |
| 12 | cB | 901 | CLA | C1B-CHB | 2.17 | 1.47 | 1.41 |
| 12 | aB | 902 | CLA | C4B-CHC | 2.17 | 1.47 | 1.41 |
| 12 | aB | 932 | CLA | C4B-CHC | 2.17 | 1.47 | 1.41 |
| 12 | bB | 934 | CLA | C3D-C4D | -2.17 | 1.39 | 1.44 |
| 12 | cA | 817 | CLA | C1C-C2C | 2.17 | 1.48 | 1.44 |
| 12 | cB | 924 | CLA | C4C-C3C | 2.17 | 1.48 | 1.45 |
| 12 | cA | 836 | CLA | C4B-CHC | 2.17 | 1.47 | 1.41 |
| 12 | bA | 804 | CLA | C1C-NC | -2.17 | 1.34 | 1.37 |
| 12 | cA | 839 | CLA | C4B-CHC | 2.17 | 1.47 | 1.41 |
| 15 | aB | 945 | BCR | C30-C25 | -2.17 | 1.50 | 1.53 |
| 12 | aB | 906 | CLA | C4B-NB | -2.17 | 1.33 | 1.35 |
| 12 | bA | 822 | CLA | C1B-CHB | 2.17 | 1.47 | 1.41 |
| 12 | bA | 818 | CLA | C1B-CHB | 2.17 | 1.47 | 1.41 |
| 12 | cA | 822 | CLA | C1B-CHB | 2.17 | 1.47 | 1.41 |
| 12 | aB | 926 | CLA | C1B-CHB | 2.17 | 1.47 | 1.41 |
| 15 | aA | 848 | BCR | C1-C6 | -2.16 | 1.50 | 1.53 |
| 12 | bA | 809 | CLA | C4B-NB | -2.16 | 1.33 | 1.35 |
| 12 | bB | 905 | CLA | C1C-C2C | 2.16 | 1.48 | 1.44 |
| 12 | aB | 925 | CLA | OBD-CAD | 2.16 | 1.26 | 1.22 |
| 12 | cA | 824 | CLA | C4C-C3C | 2.16 | 1.48 | 1.45 |
| 12 | bB | 920 | CLA | C1B-CHB | 2.16 | 1.47 | 1.41 |
| 12 | bB | 923 | CLA | C1C-NC | -2.16 | 1.34 | 1.37 |
| 12 | cA | 830 | CLA | C4C-C3C | 2.16 | 1.48 | 1.45 |
| 12 | aB | 905 | CLA | C1C-C2C | 2.16 | 1.48 | 1.44 |
| 12 | bB | 934 | CLA | C1C-C2C | 2.16 | 1.48 | 1.44 |
| 12 | aA | 830 | CLA | C4C-C3C | 2.16 | 1.48 | 1.45 |
| 12 | cA | 820 | CLA | C3D-C4D | -2.16 | 1.39 | 1.44 |
| 12 | aB | 920 | CLA | C1B-CHB | 2.16 | 1.47 | 1.41 |
| 12 | cA | 812 | CLA | C4B-NB | -2.16 | 1.33 | 1.35 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 11 | bA | 801 | CL0 | C1C-NC | -2.16 | 1.34 | 1.37 |
| 12 | bA | 805 | CLA | C1C-NC | -2.16 | 1.34 | 1.37 |
| 12 | bA | 817 | CLA | C1B-NB | -2.16 | 1.33 | 1.35 |
| 12 | bB | 938 | CLA | C1C-C2C | 2.16 | 1.48 | 1.44 |
| 12 | cA | 803 | CLA | C3D-C4D | -2.16 | 1.39 | 1.44 |
| 12 | cB | 906 | CLA | C4B-NB | -2.16 | 1.33 | 1.35 |
| 12 | aA | 840 | CLA | C1C-NC | -2.16 | 1.34 | 1.37 |
| 12 | aA | 832 | CLA | C4B-CHC | 2.16 | 1.47 | 1.41 |
| 12 | bB | 936 | CLA | OBD-CAD | 2.16 | 1.26 | 1.22 |
| 12 | cB | 920 | CLA | C1B-CHB | 2.16 | 1.47 | 1.41 |
| 12 | bB | 930 | CLA | C1C-NC | -2.16 | 1.34 | 1.37 |
| 12 | aB | 913 | CLA | C1B-CHB | 2.15 | 1.47 | 1.41 |
| 12 | bA | 804 | CLA | C4B-CHC | 2.15 | 1.47 | 1.41 |
| 12 | aB | 938 | CLA | C1C-C2C | 2.15 | 1.48 | 1.44 |
| 12 | cB | 932 | CLA | C4B-CHC | 2.15 | 1.47 | 1.41 |
| 12 | cA | 826 | CLA | C1C-NC | -2.15 | 1.34 | 1.37 |
| 12 | aA | 812 | CLA | C4B-NB | -2.15 | 1.33 | 1.35 |
| 12 | cB | 926 | CLA | C1B-CHB | 2.15 | 1.47 | 1.41 |
| 12 | bA | 841 | CLA | C1B-CHB | 2.15 | 1.47 | 1.41 |
| 12 | aB | 915 | CLA | C1B-NB | -2.15 | 1.33 | 1.35 |
| 12 | bB | 936 | CLA | C4B-NB | -2.15 | 1.33 | 1.35 |
| 12 | aA | 836 | CLA | C4B-CHC | 2.15 | 1.47 | 1.41 |
| 12 | bB | 926 | CLA | C1B-CHB | 2.15 | 1.47 | 1.41 |
| 12 | cA | 804 | CLA | C4B-CHC | 2.15 | 1.47 | 1.41 |
| 12 | bA | 820 | CLA | C3D-C4D | -2.15 | 1.39 | 1.44 |
| 12 | aB | 936 | CLA | C1C-NC | -2.15 | 1.34 | 1.37 |
| 12 | aB | 932 | CLA | C4B-NB | -2.15 | 1.33 | 1.35 |
| 12 | cA | 803 | CLA | C4B-NB | -2.15 | 1.33 | 1.35 |
| 12 | cB | 905 | CLA | C1C-C2C | 2.15 | 1.48 | 1.44 |
| 12 | cA | 816 | CLA | C1C-NC | -2.15 | 1.34 | 1.37 |
| 12 | bA | 832 | CLA | C4B-CHC | 2.15 | 1.47 | 1.41 |
| 12 | aB | 917 | CLA | C4B-NB | -2.15 | 1.33 | 1.35 |
| 12 | cL | 204 | CLA | C1C-C2C | 2.15 | 1.48 | 1.44 |
| 12 | aA | 802 | CLA | C4D-CHA | 2.15 | 1.46 | 1.38 |
| 12 | aA | 818 | CLA | C1B-CHB | 2.14 | 1.47 | 1.41 |
| 15 | bA | 847 | BCR | C1-C6 | -2.14 | 1.50 | 1.53 |
| 12 | bA | 825 | CLA | C4C-C3C | 2.14 | 1.48 | 1.45 |
| 12 | bB | 916 | CLA | C1C-C2C | 2.14 | 1.48 | 1.44 |
| 12 | bA | 803 | CLA | C4B-NB | -2.14 | 1.33 | 1.35 |
| 12 | cA | 809 | CLA | C1C-C2C | 2.14 | 1.48 | 1.44 |
| 12 | aB | 931 | CLA | C1C-NC | -2.14 | 1.34 | 1.37 |
| 12 | cB | 934 | CLA | C1C-C2C | 2.14 | 1.48 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aF | 202 | CLA | C1B-NB | -2.14 | 1.33 | 1.35 |
| 12 | bB | 932 | CLA | C4B-CHC | 2.14 | 1.46 | 1.41 |
| 12 | aL | 202 | CLA | C1C-C2C | 2.14 | 1.48 | 1.44 |
| 12 | aA | 809 | CLA | C4B-NB | -2.14 | 1.33 | 1.35 |
| 12 | aL | 204 | CLA | C1C-C2C | 2.14 | 1.48 | 1.44 |
| 12 | cB | 922 | CLA | C1B-CHB | 2.14 | 1.46 | 1.41 |
| 12 | cB | 936 | CLA | C4C-C3C | 2.14 | 1.48 | 1.45 |
| 12 | aB | 919 | CLA | C1B-NB | -2.14 | 1.33 | 1.35 |
| 12 | aA | 802 | CLA | C1B-CHB | 2.14 | 1.46 | 1.41 |
| 12 | cB | 916 | CLA | C1C-C2C | 2.14 | 1.48 | 1.44 |
| 12 | cB | 921 | CLA | C1C-C2C | 2.14 | 1.48 | 1.44 |
| 12 | bB | 923 | CLA | C1B-CHB | 2.14 | 1.46 | 1.41 |
| 12 | cA | 843 | CLA | C4C-C3C | 2.14 | 1.48 | 1.45 |
| 12 | aB | 923 | CLA | C1B-CHB | 2.14 | 1.46 | 1.41 |
| 12 | aA | 829 | CLA | C4B-CHC | 2.14 | 1.46 | 1.41 |
| 12 | bL | 203 | CLA | C1C-NC | -2.14 | 1.34 | 1.37 |
| 15 | cB | 945 | BCR | C1-C6 | -2.14 | 1.50 | 1.53 |
| 12 | aA | 826 | CLA | C4C-C3C | 2.14 | 1.48 | 1.45 |
| 12 | cA | 804 | CLA | C1C-NC | -2.14 | 1.34 | 1.37 |
| 12 | aA | 809 | CLA | C1C-C2C | 2.14 | 1.48 | 1.44 |
| 12 | aA | 817 | CLA | C1B-NB | -2.14 | 1.33 | 1.35 |
| 12 | cA | 826 | CLA | C4C-C3C | 2.14 | 1.48 | 1.45 |
| 12 | aB | 908 | CLA | C4C-C3C | 2.13 | 1.48 | 1.45 |
| 12 | bA | 815 | CLA | C4C-C3C | 2.13 | 1.48 | 1.45 |
| 12 | aA | 811 | CLA | C4B-CHC | 2.13 | 1.46 | 1.41 |
| 12 | cB | 931 | CLA | C1C-NC | -2.13 | 1.34 | 1.37 |
| 12 | cB | 936 | CLA | C4B-CHC | 2.13 | 1.46 | 1.41 |
| 12 | bA | 826 | CLA | C4B-NB | -2.13 | 1.33 | 1.35 |
| 12 | bA | 810 | CLA | C1B-CHB | 2.13 | 1.46 | 1.41 |
| 12 | aA | 828 | CLA | C4B-CHC | 2.13 | 1.46 | 1.41 |
| 12 | aA | 840 | CLA | C4B-NB | -2.13 | 1.33 | 1.35 |
| 12 | aL | 204 | CLA | C4B-NB | -2.13 | 1.33 | 1.35 |
| 12 | bB | 924 | CLA | C4C-C3C | 2.13 | 1.48 | 1.45 |
| 13 | cA | 844 | 1L3 | C14-C03 | 2.13 | 1.54 | 1.51 |
| 12 | cA | 840 | CLA | C4B-NB | -2.13 | 1.33 | 1.35 |
| 12 | aA | 835 | CLA | C4C-C3C | 2.13 | 1.48 | 1.45 |
| 12 | bA | 836 | CLA | C4B-CHC | 2.13 | 1.46 | 1.41 |
| 12 | cB | 912 | CLA | C1C-C2C | 2.13 | 1.48 | 1.44 |
| 12 | aA | 831 | CLA | C1C-C2C | 2.13 | 1.48 | 1.44 |
| 12 | aB | 921 | CLA | C1C-C2C | 2.13 | 1.48 | 1.44 |
| 12 | cB | 916 | CLA | C1B-CHB | 2.13 | 1.46 | 1.41 |
| 12 | cB | 933 | CLA | C1C-NC | -2.13 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 922 | CLA | C4B-CHC | 2.13 | 1.46 | 1.41 |
| 12 | cA | 802 | CLA | C4D-CHA | 2.13 | 1.46 | 1.38 |
| 12 | bA | 853 | CLA | C4B-NB | -2.13 | 1.33 | 1.35 |
| 12 | bA | 826 | CLA | C1C-NC | -2.13 | 1.34 | 1.37 |
| 12 | cB | 930 | CLA | C1C-NC | -2.13 | 1.34 | 1.37 |
| 12 | bA | 809 | CLA | C1C-C2C | 2.13 | 1.48 | 1.44 |
| 15 | cB | 946 | BCR | C38-C26 | -2.13 | 1.47 | 1.50 |
| 12 | bA | 828 | CLA | C4B-CHC | 2.13 | 1.46 | 1.41 |
| 15 | bB | 941 | BCR | C30-C25 | -2.12 | 1.50 | 1.53 |
| 12 | cA | 815 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 12 | cB | 923 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 12 | cA | 805 | CLA | C1C-NC | -2.12 | 1.34 | 1.37 |
| 12 | bA | 802 | CLA | C4D-CHA | 2.12 | 1.46 | 1.38 |
| 12 | aB | 915 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 12 | aA | 804 | CLA | C4B-CHC | 2.12 | 1.46 | 1.41 |
| 12 | aB | 936 | CLA | OBD-CAD | 2.12 | 1.26 | 1.22 |
| 12 | bA | 835 | CLA | C4C-C3C | 2.12 | 1.48 | 1.45 |
| 12 | aB | 916 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 12 | aA | 815 | CLA | C4C-C3C | 2.12 | 1.48 | 1.45 |
| 13 | cB | 940 | 1L3 | C14-C03 | 2.12 | 1.54 | 1.51 |
| 12 | aL | 203 | CLA | C1C-NC | -2.12 | 1.34 | 1.37 |
| 12 | aA | 805 | CLA | C1C-NC | -2.12 | 1.34 | 1.37 |
| 15 | aB | 946 | BCR | C38-C26 | -2.12 | 1.47 | 1.50 |
| 12 | aB | 914 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 12 | aA | 841 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 13 | bB | 940 | 1L3 | C18-C16 | 2.12 | 1.55 | 1.51 |
| 12 | cA | 802 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 15 | aL | 205 | BCR | C30-C25 | -2.12 | 1.50 | 1.53 |
| 15 | cB | 945 | BCR | C30-C25 | -2.12 | 1.50 | 1.53 |
| 12 | cL | 202 | CLA | C1C-C2C | 2.12 | 1.48 | 1.44 |
| 12 | bA | 830 | CLA | C4C-C3C | 2.12 | 1.48 | 1.45 |
| 12 | aA | 815 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 12 | aB | 936 | CLA | C4B-CHC | 2.12 | 1.46 | 1.41 |
| 12 | bA | 802 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 12 | aA | 804 | CLA | C1C-NC | -2.12 | 1.34 | 1.37 |
| 12 | aB | 930 | CLA | C1C-NC | -2.12 | 1.34 | 1.37 |
| 15 | cL | 205 | BCR | C30-C25 | -2.12 | 1.50 | 1.53 |
| 12 | cA | 825 | CLA | C4C-C3C | 2.12 | 1.48 | 1.45 |
| 12 | bA | 815 | CLA | C1B-CHB | 2.12 | 1.46 | 1.41 |
| 12 | bA | 803 | CLA | C3D-C4D | -2.12 | 1.39 | 1.44 |
| 12 | bB | 936 | CLA | C4B-CHC | 2.12 | 1.46 | 1.41 |
| 12 | bA | 811 | CLA | C4B-CHC | 2.12 | 1.46 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 812 | CLA | C4C-C3C | 2.12 | 1.48 | 1.45 |
| 12 | cA | 835 | CLA | C4C-C3C | 2.12 | 1.48 | 1.45 |
| 12 | bL | 204 | CLA | C1C-C2C | 2.12 | 1.48 | 1.44 |
| 12 | aA | 837 | CLA | C4B-CHC | 2.11 | 1.46 | 1.41 |
| 12 | aB | 916 | CLA | C1C-C2C | 2.11 | 1.48 | 1.44 |
| 12 | cB | 925 | CLA | OBD-CAD | 2.11 | 1.26 | 1.22 |
| 12 | cL | 204 | CLA | C4B-NB | -2.11 | 1.33 | 1.35 |
| 12 | bB | 925 | CLA | OBD-CAD | 2.11 | 1.26 | 1.22 |
| 12 | cA | 830 | CLA | C1B-CHB | 2.11 | 1.46 | 1.41 |
| 12 | aB | 936 | CLA | C4B-NB | -2.11 | 1.33 | 1.35 |
| 12 | bB | 922 | CLA | C1B-CHB | 2.11 | 1.46 | 1.41 |
| 12 | cB | 908 | CLA | C1B-CHB | 2.11 | 1.46 | 1.41 |
| 12 | aB | 926 | CLA | C1C-C2C | 2.11 | 1.48 | 1.44 |
| 15 | bL | 205 | BCR | C30-C25 | -2.11 | 1.50 | 1.53 |
| 12 | bA | 812 | CLA | C4B-NB | -2.11 | 1.33 | 1.35 |
| 12 | bA | 833 | CLA | C4B-NB | -2.11 | 1.33 | 1.35 |
| 13 | cB | 940 | 1L3 | C18-C16 | 2.11 | 1.55 | 1.51 |
| 12 | aB | 922 | CLA | C1B-CHB | 2.11 | 1.46 | 1.41 |
| 12 | aA | 824 | CLA | C4B-CHC | 2.11 | 1.46 | 1.41 |
| 12 | aA | 816 | CLA | C1C-NC | -2.11 | 1.34 | 1.37 |
| 12 | cB | 905 | CLA | C1C-NC | -2.11 | 1.34 | 1.37 |
| 12 | bA | 820 | CLA | C1C-NC | -2.11 | 1.34 | 1.37 |
| 12 | aB | 905 | CLA | C1C-NC | -2.11 | 1.34 | 1.37 |
| 12 | cA | 837 | CLA | C4B-CHC | 2.11 | 1.46 | 1.41 |
| 12 | cA | 840 | CLA | C1C-NC | -2.11 | 1.34 | 1.37 |
| 12 | cA | 805 | CLA | C1A-CHA | 2.11 | 1.51 | 1.43 |
| 12 | cB | 907 | CLA | C1B-CHB | 2.11 | 1.46 | 1.41 |
| 12 | aB | 907 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | cB | 926 | CLA | C1C-C2C | 2.10 | 1.48 | 1.44 |
| 12 | bB | 929 | CLA | C4B-NB | -2.10 | 1.33 | 1.35 |
| 12 | cB | 915 | CLA | C1B-NB | -2.10 | 1.33 | 1.35 |
| 12 | aA | 810 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | cB | 936 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | bB | 933 | CLA | C1C-NC | -2.10 | 1.34 | 1.37 |
| 12 | cA | 825 | CLA | C1C-NC | -2.10 | 1.34 | 1.37 |
| 12 | aA | 805 | CLA | C1A-CHA | 2.10 | 1.51 | 1.43 |
| 12 | cB | 922 | CLA | C4B-CHC | 2.10 | 1.46 | 1.41 |
| 12 | aA | 803 | CLA | C3D-C4D | -2.10 | 1.39 | 1.44 |
| 12 | bB | 907 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | cA | 828 | CLA | C4B-CHC | 2.10 | 1.46 | 1.41 |
| 12 | cA | 810 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | aB | 924 | CLA | C4C-C3C | 2.10 | 1.48 | 1.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aB | 908 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | bB | 914 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | cA | 841 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | aB | 918 | CLA | C4C-C3C | 2.10 | 1.48 | 1.45 |
| 12 | aA | 825 | CLA | C4C-C3C | 2.10 | 1.48 | 1.45 |
| 12 | cB | 914 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | cA | 831 | CLA | C1C-C2C | 2.10 | 1.48 | 1.44 |
| 12 | aA | 830 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 12 | cA | 811 | CLA | C4B-CHC | 2.10 | 1.46 | 1.41 |
| 12 | aA | 808 | CLA | C1C-NC | -2.10 | 1.34 | 1.37 |
| 12 | cA | 820 | CLA | C1C-NC | -2.10 | 1.34 | 1.37 |
| 12 | bA | 819 | CLA | C1C-C2C | 2.10 | 1.48 | 1.44 |
| 12 | bA | 824 | CLA | C4C-C3C | 2.10 | 1.48 | 1.45 |
| 12 | aB | 910 | CLA | C4B-CHC | 2.10 | 1.46 | 1.41 |
| 12 | bB | 916 | CLA | C1B-CHB | 2.10 | 1.46 | 1.41 |
| 13 | bB | 940 | 1L3 | C14-C03 | 2.10 | 1.54 | 1.51 |
| 15 | bA | 848 | BCR | C33-C5 | -2.10 | 1.47 | 1.50 |
| 12 | bA | 826 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | aA | 825 | CLA | C1C-NC | -2.09 | 1.34 | 1.37 |
| 12 | bA | 824 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | bB | 910 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | bA | 814 | CLA | C4B-NB | -2.09 | 1.33 | 1.35 |
| 12 | cA | 829 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | cB | 910 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | bA | 820 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | aB | 929 | CLA | C4B-NB | -2.09 | 1.33 | 1.35 |
| 12 | cA | 803 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | aB | 922 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | bA | 805 | CLA | C1A-CHA | 2.09 | 1.51 | 1.43 |
| 12 | aB | 924 | CLA | C1C-C2C | 2.09 | 1.48 | 1.44 |
| 12 | cA | 814 | CLA | C4B-NB | -2.09 | 1.33 | 1.35 |
| 12 | cA | 826 | CLA | C4B-NB | -2.09 | 1.33 | 1.35 |
| 12 | bB | 905 | CLA | C1C-NC | -2.09 | 1.34 | 1.37 |
| 15 | cA | 848 | BCR | C33-C5 | -2.09 | 1.47 | 1.50 |
| 12 | aA | 820 | CLA | C1C-C2C | 2.09 | 1.48 | 1.44 |
| 12 | bA | 831 | CLA | C1C-C2C | 2.09 | 1.48 | 1.44 |
| 12 | cB | 930 | CLA | C1C-C2C | 2.09 | 1.48 | 1.44 |
| 12 | bA | 837 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | cB | 907 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | bA | 829 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | aA | 824 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | aB | 912 | CLA | C1C-C2C | 2.09 | 1.48 | 1.44 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 820 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | aA | 838 | CLA | C1B-CHB | 2.09 | 1.46 | 1.41 |
| 12 | bB | 908 | CLA | C1B-CHB | 2.09 | 1.46 | 1.41 |
| 12 | cA | 813 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | cB | 908 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | aB | 927 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | cA | 815 | CLA | C4C-C3C | 2.09 | 1.48 | 1.45 |
| 12 | cA | 824 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | aB | 933 | CLA | C1C-NC | -2.09 | 1.34 | 1.37 |
| 12 | aA | 833 | CLA | C4B-NB | -2.09 | 1.33 | 1.35 |
| 12 | bA | 838 | CLA | OBD-CAD | 2.09 | 1.26 | 1.22 |
| 12 | bA | 816 | CLA | C4B-CHC | 2.09 | 1.46 | 1.41 |
| 12 | bA | 830 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 12 | cA | 838 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 13 | aB | 940 | 1L3 | C18-C16 | 2.08 | 1.55 | 1.51 |
| 12 | bB | 915 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 12 | cB | 915 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 12 | cB | 929 | CLA | C4B-NB | -2.08 | 1.33 | 1.35 |
| 12 | aL | 202 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 15 | aB | 945 | BCR | C1-C6 | -2.08 | 1.50 | 1.53 |
| 12 | cB | 936 | CLA | OBD-CAD | 2.08 | 1.26 | 1.22 |
| 13 | bA | 844 | 1L3 | C14-C03 | 2.08 | 1.54 | 1.51 |
| 12 | aA | 843 | CLA | C4C-C3C | 2.08 | 1.48 | 1.45 |
| 12 | bL | 202 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 12 | aA | 819 | CLA | C1C-C2C | 2.08 | 1.48 | 1.44 |
| 12 | cB | 918 | CLA | C4C-C3C | 2.08 | 1.48 | 1.45 |
| 15 | bB | 946 | BCR | C38-C26 | -2.08 | 1.47 | 1.50 |
| 12 | aL | 204 | CLA | C4C-C3C | 2.08 | 1.48 | 1.45 |
| 12 | bA | 803 | CLA | C4B-CHC | 2.08 | 1.46 | 1.41 |
| 12 | cA | 832 | CLA | C1C-NC | -2.08 | 1.34 | 1.37 |
| 12 | cA | 838 | CLA | OBD-CAD | 2.08 | 1.26 | 1.22 |
| 12 | bB | 911 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 12 | bA | 816 | CLA | C4C-C3C | 2.08 | 1.48 | 1.45 |
| 12 | aB | 911 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 12 | aA | 832 | CLA | C1C-NC | -2.08 | 1.34 | 1.37 |
| 12 | aB | 904 | CLA | C4B-CHC | 2.08 | 1.46 | 1.41 |
| 12 | bB | 915 | CLA | C1B-NB | -2.08 | 1.33 | 1.35 |
| 12 | bB | 932 | CLA | C4B-NB | -2.08 | 1.33 | 1.35 |
| 12 | bL | 202 | CLA | C1C-C2C | 2.08 | 1.48 | 1.44 |
| 12 | cA | 816 | CLA | C4B-CHC | 2.08 | 1.46 | 1.41 |
| 12 | cA | 819 | CLA | C1C-C2C | 2.08 | 1.48 | 1.44 |
| 12 | bA | 808 | CLA | C1C-NC | -2.08 | 1.34 | 1.37 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | bB | 937 | CLA | C1C-NC | -2.08 | 1.34 | 1.37 |
| 12 | cL | 203 | CLA | C1C-NC | -2.08 | 1.34 | 1.37 |
| 12 | aA | 818 | CLA | C4B-CHC | 2.08 | 1.46 | 1.41 |
| 15 | bB | 945 | BCR | C1-C6 | -2.08 | 1.50 | 1.53 |
| 13 | aA | 845 | 1L3 | C14-C03 | 2.08 | 1.54 | 1.51 |
| 12 | cB | 911 | CLA | C1B-CHB | 2.08 | 1.46 | 1.41 |
| 15 | aJ | 101 | BCR | C33-C5 | -2.08 | 1.47 | 1.50 |
| 12 | bB | 924 | CLA | C1C-C2C | 2.07 | 1.48 | 1.44 |
| 12 | bB | 929 | CLA | C4C-C3C | 2.07 | 1.48 | 1.45 |
| 12 | cB | 906 | CLA | C4C-C3C | 2.07 | 1.48 | 1.45 |
| 12 | bB | 931 | CLA | C1C-NC | -2.07 | 1.34 | 1.37 |
| 12 | cA | 819 | CLA | C4B-NB | -2.07 | 1.33 | 1.35 |
| 15 | cB | 941 | BCR | C30-C25 | -2.07 | 1.50 | 1.53 |
| 13 | aB | 940 | 1L3 | C14-C03 | 2.07 | 1.54 | 1.51 |
| 12 | cA | 812 | CLA | C4C-C3C | 2.07 | 1.48 | 1.45 |
| 12 | cL | 204 | CLA | C4C-C3C | 2.07 | 1.48 | 1.45 |
| 12 | aA | 839 | CLA | C1C-C2C | 2.07 | 1.48 | 1.44 |
| 12 | cB | 924 | CLA | C1C-C2C | 2.07 | 1.48 | 1.44 |
| 12 | bA | 838 | CLA | C1B-CHB | 2.07 | 1.46 | 1.41 |
| 12 | cB | 904 | CLA | C4B-CHC | 2.07 | 1.46 | 1.41 |
| 12 | bA | 808 | CLA | C1C-C2C | 2.07 | 1.48 | 1.44 |
| 12 | cA | 808 | CLA | C1C-NC | -2.07 | 1.34 | 1.37 |
| 12 | aA | 819 | CLA | C4B-NB | -2.07 | 1.33 | 1.35 |
| 12 | aA | 820 | CLA | C4C-C3C | 2.07 | 1.48 | 1.45 |
| 12 | aA | 816 | CLA | C4B-CHC | 2.07 | 1.46 | 1.41 |
| 12 | cA | 818 | CLA | C4B-CHC | 2.07 | 1.46 | 1.41 |
| 12 | bB | 911 | CLA | C1C-C2C | 2.07 | 1.48 | 1.44 |
| 12 | bA | 816 | CLA | C4B-NB | -2.07 | 1.33 | 1.35 |
| 12 | bB | 919 | CLA | C1B-NB | -2.07 | 1.33 | 1.35 |
| 12 | bB | 912 | CLA | C1C-C2C | 2.07 | 1.48 | 1.44 |
| 12 | aA | 806 | CLA | C4B-CHC | 2.07 | 1.46 | 1.41 |
| 12 | aB | 937 | CLA | C1C-C2C | 2.07 | 1.48 | 1.44 |
| 12 | bA | 839 | CLA | C1C-C2C | 2.07 | 1.48 | 1.44 |
| 12 | cB | 932 | CLA | C4B-NB | -2.07 | 1.33 | 1.35 |
| 12 | cL | 202 | CLA | C1B-CHB | 2.07 | 1.46 | 1.41 |
| 12 | aB | 913 | CLA | C4B-CHC | 2.07 | 1.46 | 1.41 |
| 12 | bB | 927 | CLA | C4C-C3C | 2.07 | 1.48 | 1.45 |
| 12 | aA | 803 | CLA | C4B-CHC | 2.07 | 1.46 | 1.41 |
| 12 | bB | 936 | CLA | C1B-CHB | 2.06 | 1.46 | 1.41 |
| 12 | cB | 937 | CLA | C1C-C2C | 2.06 | 1.48 | 1.44 |
| 12 | aA | 831 | CLA | C4B-CHC | 2.06 | 1.46 | 1.41 |
| 12 | aB | 926 | CLA | C4B-CHC | 2.06 | 1.46 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 15 | cJ | 101 | BCR | C33-C5 | -2.06 | 1.47 | 1.50 |
| 12 | aB | 937 | CLA | C4B-NB | -2.06 | 1.33 | 1.35 |
| 12 | cB | 919 | CLA | C1B-NB | -2.06 | 1.33 | 1.35 |
| 12 | bB | 937 | CLA | C1C-C2C | 2.06 | 1.48 | 1.44 |
| 12 | bA | 806 | CLA | C4B-CHC | 2.06 | 1.46 | 1.41 |
| 12 | aA | 838 | CLA | OBD-CAD | 2.06 | 1.26 | 1.22 |
| 12 | aB | 936 | CLA | C1B-CHB | 2.06 | 1.46 | 1.41 |
| 12 | bA | 818 | CLA | C4B-CHC | 2.06 | 1.46 | 1.41 |
| 12 | cB | 913 | CLA | C4B-CHC | 2.06 | 1.46 | 1.41 |
| 12 | bB | 906 | CLA | C4C-C3C | 2.06 | 1.48 | 1.45 |
| 12 | bB | 904 | CLA | C4B-CHC | 2.06 | 1.46 | 1.41 |
| 12 | bB | 926 | CLA | C1C-C2C | 2.06 | 1.48 | 1.44 |
| 12 | cA | 820 | CLA | C1C-C2C | 2.06 | 1.48 | 1.44 |
| 15 | aA | 849 | BCR | C33-C5 | -2.06 | 1.47 | 1.50 |
| 12 | aB | 906 | CLA | C4C-C3C | 2.06 | 1.48 | 1.45 |
| 12 | bA | 813 | CLA | C4C-C3C | 2.06 | 1.48 | 1.45 |
| 12 | bB | 908 | CLA | C4C-C3C | 2.06 | 1.48 | 1.45 |
| 12 | bB | 917 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 12 | aB | 917 | CLA | C1A-CHA | 2.06 | 1.51 | 1.43 |
| 12 | bA | 807 | CLA | C4B-NB | -2.06 | 1.33 | 1.35 |
| 12 | bA | 812 | CLA | C4C-C3C | 2.06 | 1.48 | 1.45 |
| 12 | aA | 828 | CLA | C1B-CHB | 2.06 | 1.46 | 1.41 |
| 12 | aA | 808 | CLA | C1C-C2C | 2.06 | 1.48 | 1.44 |
| 12 | aB | 939 | CLA | C4B-NB | -2.05 | 1.33 | 1.35 |
| 12 | aB | 918 | CLA | C4B-CHC | 2.05 | 1.46 | 1.41 |
| 12 | aB | 932 | CLA | C1B-CHB | 2.05 | 1.46 | 1.41 |
| 12 | bB | 913 | CLA | C4B-CHC | 2.05 | 1.46 | 1.41 |
| 12 | bA | 817 | CLA | C4B-NB | -2.05 | 1.33 | 1.35 |
| 12 | bA | 820 | CLA | C1C-C2C | 2.05 | 1.48 | 1.44 |
| 12 | cA | 828 | CLA | C1B-CHB | 2.05 | 1.46 | 1.41 |
| 12 | cA | 842 | CLA | C1C-C2C | 2.05 | 1.48 | 1.44 |
| 15 | bJ | 101 | BCR | C33-C5 | -2.05 | 1.47 | 1.50 |
| 15 | cL | 206 | BCR | C30-C25 | -2.05 | 1.50 | 1.53 |
| 12 | aA | 842 | CLA | C1C-C2C | 2.05 | 1.48 | 1.44 |
| 12 | aA | 802 | CLA | C1C-NC | -2.05 | 1.34 | 1.37 |
| 12 | cA | 822 | CLA | C1C-NC | -2.05 | 1.34 | 1.37 |
| 12 | cA | 833 | CLA | C4B-NB | -2.05 | 1.33 | 1.35 |
| 12 | cB | 918 | CLA | C4B-CHC | 2.05 | 1.46 | 1.41 |
| 12 | aB | 911 | CLA | C1C-C2C | 2.05 | 1.48 | 1.44 |
| 12 | bB | 930 | CLA | C1C-C2C | 2.05 | 1.48 | 1.44 |
| 12 | aA | 841 | CLA | C4C-C3C | 2.05 | 1.48 | 1.45 |
| 15 | cB | 941 | BCR | C33-C5 | -2.05 | 1.47 | 1.50 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 15 | bB | 941 | BCR | C33-C5 | -2.05 | 1.47 | 1.50 |
| 12 | bB | 912 | CLA | C4B-CHC | 2.05 | 1.46 | 1.41 |
| 12 | aB | 907 | CLA | C4C-C3C | 2.05 | 1.48 | 1.45 |
| 12 | cB | 912 | CLA | C4B-CHC | 2.05 | 1.46 | 1.41 |
| 15 | aL | 206 | BCR | C30-C25 | -2.05 | 1.51 | 1.53 |
| 15 | bB | 945 | BCR | C30-C25 | -2.05 | 1.51 | 1.53 |
| 12 | aA | 844 | CLA | C4B-CHC | 2.05 | 1.46 | 1.41 |
| 12 | aA | 822 | CLA | C1C-NC | -2.04 | 1.34 | 1.37 |
| 12 | cA | 807 | CLA | C4B-NB | -2.04 | 1.33 | 1.35 |
| 12 | cL | 203 | CLA | C4B-NB | -2.04 | 1.33 | 1.35 |
| 12 | cB | 917 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 12 | aB | 928 | CLA | C1C-C2C | 2.04 | 1.48 | 1.44 |
| 12 | bA | 822 | CLA | C1C-NC | -2.04 | 1.34 | 1.37 |
| 12 | bA | 831 | CLA | C4B-CHC | 2.04 | 1.46 | 1.41 |
| 12 | aA | 830 | CLA | C4B-NB | -2.04 | 1.33 | 1.35 |
| 12 | bB | 933 | CLA | C1C-C2C | 2.04 | 1.48 | 1.44 |
| 12 | cF | 202 | CLA | C1C-NC | -2.04 | 1.34 | 1.37 |
| 12 | bA | 828 | CLA | C1B-CHB | 2.04 | 1.46 | 1.41 |
| 12 | aB | 910 | CLA | C4C-C3C | 2.04 | 1.48 | 1.45 |
| 12 | bA | 803 | CLA | C4C-C3C | 2.04 | 1.48 | 1.45 |
| 12 | aA | 807 | CLA | C4B-NB | -2.04 | 1.33 | 1.35 |
| 12 | bA | 840 | CLA | C4B-NB | -2.04 | 1.33 | 1.35 |
| 12 | cA | 804 | CLA | C1C-C2C | 2.04 | 1.48 | 1.44 |
| 15 | aB | 941 | BCR | C30-C25 | -2.04 | 1.51 | 1.53 |
| 12 | bA | 805 | CLA | C4B-NB | -2.04 | 1.33 | 1.35 |
| 12 | cA | 839 | CLA | C1C-C2C | 2.04 | 1.48 | 1.44 |
| 12 | aB | 903 | CLA | C1B-CHB | 2.04 | 1.46 | 1.41 |
| 12 | bB | 917 | CLA | C1B-CHB | 2.04 | 1.46 | 1.41 |
| 12 | cA | 841 | CLA | C4C-C3C | 2.04 | 1.48 | 1.45 |
| 12 | aA | 836 | CLA | C1A-CHA | 2.04 | 1.51 | 1.43 |
| 12 | aB | 929 | CLA | C4C-C3C | 2.04 | 1.48 | 1.45 |
| 12 | bB | 918 | CLA | C4C-C3C | 2.04 | 1.48 | 1.45 |
| 12 | bB | 903 | CLA | C1B-CHB | 2.04 | 1.46 | 1.41 |
| 12 | cB | 911 | CLA | C1C-C2C | 2.04 | 1.48 | 1.44 |
| 12 | bB | 932 | CLA | C1B-CHB | 2.03 | 1.46 | 1.41 |
| 12 | bA | 836 | CLA | C1A-CHA | 2.03 | 1.51 | 1.43 |
| 12 | bA | 819 | CLA | C4B-NB | -2.03 | 1.33 | 1.35 |
| 12 | aB | 916 | CLA | C4B-NB | -2.03 | 1.33 | 1.35 |
| 12 | aB | 917 | CLA | C1B-CHB | 2.03 | 1.46 | 1.41 |
| 12 | bB | 928 | CLA | C1C-C2C | 2.03 | 1.48 | 1.44 |
| 12 | cA | 806 | CLA | C4B-CHC | 2.03 | 1.46 | 1.41 |
| 12 | cB | 903 | CLA | C1B-CHB | 2.03 | 1.46 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cB | 928 | CLA | C4B-CHC | 2.03 | 1.46 | 1.41 |
| 12 | aA | 813 | CLA | C4C-C3C | 2.03 | 1.48 | 1.45 |
| 12 | aA | 816 | CLA | C4C-C3C | 2.03 | 1.48 | 1.45 |
| 12 | aA | 814 | CLA | C4B-NB | -2.03 | 1.33 | 1.35 |
| 12 | aB | 928 | CLA | C4B-CHC | 2.03 | 1.46 | 1.41 |
| 12 | cA | 810 | CLA | C1C-C2C | 2.03 | 1.48 | 1.44 |
| 12 | cA | 831 | CLA | C4B-CHC | 2.03 | 1.46 | 1.41 |
| 12 | cA | 836 | CLA | C1A-CHA | 2.03 | 1.51 | 1.43 |
| 12 | cB | 932 | CLA | C1B-CHB | 2.03 | 1.46 | 1.41 |
| 12 | bB | 933 | CLA | C4C-C3C | 2.03 | 1.48 | 1.45 |
| 12 | cB | 927 | CLA | C4C-C3C | 2.03 | 1.48 | 1.45 |
| 12 | cB | 937 | CLA | C1C-NC | -2.03 | 1.34 | 1.37 |
| 12 | bB | 950 | CLA | C4B-CHC | 2.03 | 1.46 | 1.41 |
| 12 | bB | 926 | CLA | C4B-CHC | 2.03 | 1.46 | 1.41 |
| 12 | cB | 902 | CLA | C3D-C4D | -2.03 | 1.39 | 1.44 |
| 12 | bA | 843 | CLA | C4B-CHC | 2.03 | 1.46 | 1.41 |
| 12 | aL | 203 | CLA | C4B-NB | -2.03 | 1.33 | 1.35 |
| 12 | bA | 827 | CLA | C1C-C2C | 2.03 | 1.48 | 1.44 |
| 12 | cB | 917 | CLA | C1B-CHB | 2.03 | 1.46 | 1.41 |
| 12 | aA | 833 | CLA | C4B-CHC | 2.02 | 1.46 | 1.41 |
| 12 | cL | 203 | CLA | C4C-C3C | 2.02 | 1.48 | 1.45 |
| 12 | cB | 933 | CLA | C1C-C2C | 2.02 | 1.48 | 1.44 |
| 12 | bL | 204 | CLA | C4C-C3C | 2.02 | 1.48 | 1.45 |
| 12 | bA | 841 | CLA | C4C-C3C | 2.02 | 1.48 | 1.45 |
| 12 | cB | 926 | CLA | C4B-CHC | 2.02 | 1.46 | 1.41 |
| 12 | aA | 843 | CLA | C4B-CHC | 2.02 | 1.46 | 1.41 |
| 12 | cA | 802 | CLA | C1C-NC | -2.02 | 1.34 | 1.37 |
| 12 | aB | 912 | CLA | O2D-CED | -2.02 | 1.40 | 1.45 |
| 12 | aB | 931 | CLA | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 12 | cA | 843 | CLA | C4B-CHC | 2.02 | 1.46 | 1.41 |
| 12 | cB | 928 | CLA | C1C-C2C | 2.02 | 1.48 | 1.44 |
| 12 | aB | 950 | CLA | C4B-CHC | 2.02 | 1.46 | 1.41 |
| 12 | cA | 827 | CLA | C1C-C2C | 2.02 | 1.48 | 1.44 |
| 12 | aB | 937 | CLA | C1C-NC | -2.02 | 1.34 | 1.37 |
| 12 | aA | 832 | CLA | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 12 | bA | 810 | CLA | C4B-CHC | 2.02 | 1.46 | 1.41 |
| 12 | bB | 918 | CLA | C4B-CHC | 2.02 | 1.46 | 1.41 |
| 12 | bB | 907 | CLA | C4C-C3C | 2.02 | 1.48 | 1.45 |
| 15 | aB | 941 | BCR | C33-C5 | -2.02 | 1.47 | 1.50 |
| 12 | bA | 842 | CLA | C1C-C2C | 2.02 | 1.48 | 1.44 |
| 12 | cB | 921 | CLA | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 12 | cA | 813 | CLA | C1B-CHB | 2.02 | 1.46 | 1.41 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | cA | 817 | CLA | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 12 | cA | 842 | CLA | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 12 | aB | 912 | CLA | C4B-CHC | 2.02 | 1.46 | 1.41 |
| 12 | bB | 933 | CLA | C1B-CHB | 2.02 | 1.46 | 1.41 |
| 12 | cA | 816 | CLA | C4C-C3C | 2.01 | 1.48 | 1.45 |
| 12 | bB | 937 | CLA | C4B-NB | -2.01 | 1.33 | 1.35 |
| 12 | cB | 907 | CLA | C4B-NB | -2.01 | 1.33 | 1.35 |
| 12 | bB | 902 | CLA | C3D-C4D | -2.01 | 1.39 | 1.44 |
| 12 | aB | 930 | CLA | C1C-C2C | 2.01 | 1.48 | 1.44 |
| 12 | bB | 915 | CLA | C1C-C2C | 2.01 | 1.48 | 1.44 |
| 12 | bA | 815 | CLA | C4B-NB | -2.01 | 1.33 | 1.35 |
| 12 | bA | 832 | CLA | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 12 | cA | 833 | CLA | C4B-CHC | 2.01 | 1.46 | 1.41 |
| 12 | cB | 933 | CLA | C4C-C3C | 2.01 | 1.48 | 1.45 |
| 12 | bB | 912 | CLA | O2D-CED | -2.01 | 1.40 | 1.45 |
| 12 | aA | 813 | CLA | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 12 | bB | 928 | CLA | CMB-C2B | -2.01 | 1.47 | 1.51 |
| 12 | aA | 812 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 12 | aB | 915 | CLA | C1C-C2C | 2.01 | 1.48 | 1.44 |
| 12 | aB | 921 | CLA | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 12 | aB | 919 | CLA | C1C-C2C | 2.01 | 1.48 | 1.44 |
| 16 | cA | 851 | LHG | O7-C5 | -2.01 | 1.41 | 1.46 |
| 12 | aA | 803 | CLA | C4C-C3C | 2.01 | 1.48 | 1.45 |
| 12 | aB | 933 | CLA | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 12 | cA | 808 | CLA | C1C-C2C | 2.01 | 1.48 | 1.44 |
| 12 | bA | 812 | CLA | C1A-CHA | 2.01 | 1.51 | 1.43 |
| 12 | bA | 817 | CLA | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 17 | cB | 947 | LMG | C3-C2 | 2.01 | 1.57 | 1.52 |
| 12 | aB | 933 | CLA | C1C-C2C | 2.01 | 1.48 | 1.44 |
| 12 | bB | 949 | CLA | C4C-C3C | 2.01 | 1.48 | 1.45 |
| 12 | bA | 832 | CLA | C1C-NC | -2.01 | 1.34 | 1.37 |
| 12 | aA | 810 | CLA | C4B-CHC | 2.01 | 1.46 | 1.41 |
| 12 | aA | 829 | CLA | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 12 | cA | 803 | CLA | C4C-C3C | 2.01 | 1.48 | 1.45 |
| 12 | bA | 842 | CLA | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 12 | cB | 933 | CLA | C1B-CHB | 2.01 | 1.46 | 1.41 |
| 12 | bA | 823 | CLA | C4B-NB | -2.01 | 1.33 | 1.35 |
| 12 | aB | 902 | CLA | C3D-C4D | -2.01 | 1.39 | 1.44 |
| 16 | bA | 851 | LHG | O7-C5 | -2.00 | 1.41 | 1.46 |
| 12 | bA | 813 | CLA | C1B-CHB | 2.00 | 1.46 | 1.41 |
| 12 | cA | 827 | CLA | C1B-CHB | 2.00 | 1.46 | 1.41 |
| 12 | bB | 910 | CLA | C4C-C3C | 2.00 | 1.48 | 1.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 12 | aA | 810 | CLA | C1C-C2C | 2.00 | 1.48 | 1.44 |
| 12 | aA | 817 | CLA | C1B-CHB | 2.00 | 1.46 | 1.41 |
| 16 | aA | 852 | LHG | O7-C5 | -2.00 | 1.41 | 1.46 |
| 12 | bB | 902 | CLA | C4C-C3C | 2.00 | 1.48 | 1.45 |
| 12 | aA | 821 | CLA | C1C-C2C | 2.00 | 1.48 | 1.44 |
| 12 | bB | 928 | CLA | C4B-CHC | 2.00 | 1.46 | 1.41 |
| 12 | bB | 919 | CLA | C4C-C3C | 2.00 | 1.48 | 1.45 |
| 12 | bB | 939 | CLA | C4B-NB | -2.00 | 1.33 | 1.35 |
| 12 | cB | 912 | CLA | O2D-CED | -2.00 | 1.40 | 1.45 |
| 12 | cB | 915 | CLA | C1C-C2C | 2.00 | 1.48 | 1.44 |
| 12 | bA | 829 | CLA | C1B-CHB | 2.00 | 1.46 | 1.41 |
| 12 | bB | 922 | CLA | C1C-C2C | 2.00 | 1.48 | 1.44 |
| 12 | cB | 929 | CLA | C4C-C3C | 2.00 | 1.48 | 1.45 |

All (7566) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|--------|-------------|----------|
| 12 | aB | 931 | CLA | C1D-ND-C4D | -10.64 | 98.77 | 106.33 |
| 12 | cB | 931 | CLA | C1D-ND-C4D | -10.60 | 98.81 | 106.33 |
| 12 | bB | 931 | CLA | C1D-ND-C4D | -10.58 | 98.82 | 106.33 |
| 12 | aB | 931 | CLA | C2D-C1D-ND | 10.15 | 117.58 | 110.10 |
| 12 | cB | 931 | CLA | C2D-C1D-ND | 10.10 | 117.55 | 110.10 |
| 12 | bB | 931 | CLA | C2D-C1D-ND | 10.09 | 117.54 | 110.10 |
| 12 | aL | 203 | CLA | C1D-ND-C4D | -9.90 | 99.30 | 106.33 |
| 12 | cL | 203 | CLA | C1D-ND-C4D | -9.90 | 99.30 | 106.33 |
| 12 | aB | 920 | CLA | C1D-ND-C4D | -9.88 | 99.31 | 106.33 |
| 12 | bB | 920 | CLA | C1D-ND-C4D | -9.88 | 99.32 | 106.33 |
| 12 | aB | 939 | CLA | C1D-ND-C4D | -9.87 | 99.32 | 106.33 |
| 12 | bB | 939 | CLA | C1D-ND-C4D | -9.86 | 99.33 | 106.33 |
| 12 | bL | 203 | CLA | C1D-ND-C4D | -9.85 | 99.34 | 106.33 |
| 12 | cB | 920 | CLA | C1D-ND-C4D | -9.84 | 99.34 | 106.33 |
| 12 | cB | 939 | CLA | C1D-ND-C4D | -9.82 | 99.36 | 106.33 |
| 12 | aA | 822 | CLA | C1D-ND-C4D | -9.67 | 99.47 | 106.33 |
| 12 | bA | 822 | CLA | C1D-ND-C4D | -9.63 | 99.49 | 106.33 |
| 12 | aB | 915 | CLA | C1D-ND-C4D | -9.61 | 99.51 | 106.33 |
| 12 | cA | 822 | CLA | C1D-ND-C4D | -9.60 | 99.51 | 106.33 |
| 12 | aL | 203 | CLA | C2D-C1D-ND | 9.59 | 117.17 | 110.10 |
| 12 | cB | 915 | CLA | C1D-ND-C4D | -9.58 | 99.53 | 106.33 |
| 12 | cL | 203 | CLA | C2D-C1D-ND | 9.58 | 117.16 | 110.10 |
| 12 | aB | 932 | CLA | C1D-ND-C4D | -9.55 | 99.55 | 106.33 |
| 12 | aB | 916 | CLA | C1D-ND-C4D | -9.55 | 99.55 | 106.33 |
| 12 | bB | 916 | CLA | C1D-ND-C4D | -9.54 | 99.55 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | bL | 203 | CLA | C2D-C1D-ND | 9.54 | 117.14 | 110.10 |
| 12 | aA | 806 | CLA | C1D-ND-C4D | -9.54 | 99.56 | 106.33 |
| 12 | bB | 932 | CLA | C1D-ND-C4D | -9.54 | 99.56 | 106.33 |
| 12 | cB | 932 | CLA | C1D-ND-C4D | -9.53 | 99.57 | 106.33 |
| 12 | bA | 806 | CLA | C1D-ND-C4D | -9.51 | 99.58 | 106.33 |
| 12 | bB | 915 | CLA | C1D-ND-C4D | -9.50 | 99.58 | 106.33 |
| 12 | bA | 838 | CLA | C1D-ND-C4D | -9.49 | 99.59 | 106.33 |
| 12 | cA | 806 | CLA | C1D-ND-C4D | -9.49 | 99.59 | 106.33 |
| 12 | cB | 916 | CLA | C1D-ND-C4D | -9.49 | 99.60 | 106.33 |
| 12 | bA | 803 | CLA | C2D-C1D-ND | 9.48 | 117.09 | 110.10 |
| 12 | cL | 204 | CLA | C1D-ND-C4D | -9.47 | 99.60 | 106.33 |
| 12 | cA | 803 | CLA | C2D-C1D-ND | 9.47 | 117.09 | 110.10 |
| 12 | cA | 817 | CLA | C1D-ND-C4D | -9.45 | 99.62 | 106.33 |
| 12 | cA | 838 | CLA | C1D-ND-C4D | -9.45 | 99.62 | 106.33 |
| 12 | aL | 204 | CLA | C1D-ND-C4D | -9.44 | 99.63 | 106.33 |
| 12 | bL | 204 | CLA | C1D-ND-C4D | -9.44 | 99.63 | 106.33 |
| 12 | aA | 838 | CLA | C1D-ND-C4D | -9.43 | 99.63 | 106.33 |
| 12 | aA | 803 | CLA | C2D-C1D-ND | 9.43 | 117.05 | 110.10 |
| 12 | aA | 817 | CLA | C1D-ND-C4D | -9.42 | 99.64 | 106.33 |
| 12 | cA | 804 | CLA | C1D-ND-C4D | -9.41 | 99.65 | 106.33 |
| 12 | bA | 817 | CLA | C1D-ND-C4D | -9.37 | 99.68 | 106.33 |
| 12 | cB | 920 | CLA | C2D-C1D-ND | 9.37 | 117.01 | 110.10 |
| 12 | aA | 804 | CLA | C1D-ND-C4D | -9.36 | 99.68 | 106.33 |
| 12 | cA | 803 | CLA | C1D-ND-C4D | -9.35 | 99.69 | 106.33 |
| 12 | aB | 920 | CLA | C2D-C1D-ND | 9.35 | 116.99 | 110.10 |
| 12 | bB | 920 | CLA | C2D-C1D-ND | 9.34 | 116.98 | 110.10 |
| 12 | cB | 902 | CLA | C2D-C1D-ND | 9.33 | 116.98 | 110.10 |
| 12 | bA | 803 | CLA | C1D-ND-C4D | -9.33 | 99.71 | 106.33 |
| 12 | bB | 949 | CLA | C1D-ND-C4D | -9.32 | 99.71 | 106.33 |
| 12 | bA | 804 | CLA | C1D-ND-C4D | -9.31 | 99.72 | 106.33 |
| 12 | aA | 822 | CLA | C2D-C1D-ND | 9.31 | 116.96 | 110.10 |
| 12 | aB | 902 | CLA | C2D-C1D-ND | 9.30 | 116.96 | 110.10 |
| 12 | cB | 949 | CLA | C1D-ND-C4D | -9.30 | 99.73 | 106.33 |
| 12 | bB | 929 | CLA | C1D-ND-C4D | -9.29 | 99.74 | 106.33 |
| 12 | cA | 822 | CLA | C2D-C1D-ND | 9.28 | 116.94 | 110.10 |
| 12 | bA | 822 | CLA | C2D-C1D-ND | 9.28 | 116.94 | 110.10 |
| 12 | aB | 929 | CLA | C1D-ND-C4D | -9.28 | 99.75 | 106.33 |
| 12 | aB | 906 | CLA | C1D-ND-C4D | -9.27 | 99.75 | 106.33 |
| 12 | aA | 803 | CLA | C1D-ND-C4D | -9.26 | 99.75 | 106.33 |
| 12 | cB | 929 | CLA | C1D-ND-C4D | -9.26 | 99.76 | 106.33 |
| 12 | bB | 902 | CLA | C2D-C1D-ND | 9.26 | 116.93 | 110.10 |
| 12 | aB | 949 | CLA | C1D-ND-C4D | -9.26 | 99.76 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | bB | 906 | CLA | C1D-ND-C4D | -9.24 | 99.77 | 106.33 |
| 12 | bA | 841 | CLA | C1D-ND-C4D | -9.24 | 99.77 | 106.33 |
| 12 | cB | 906 | CLA | C1D-ND-C4D | -9.23 | 99.78 | 106.33 |
| 12 | bB | 914 | CLA | C1D-ND-C4D | -9.22 | 99.78 | 106.33 |
| 12 | cA | 841 | CLA | C1D-ND-C4D | -9.21 | 99.79 | 106.33 |
| 12 | cB | 914 | CLA | C1D-ND-C4D | -9.20 | 99.80 | 106.33 |
| 12 | cB | 937 | CLA | C1D-ND-C4D | -9.19 | 99.81 | 106.33 |
| 12 | aB | 914 | CLA | C1D-ND-C4D | -9.18 | 99.81 | 106.33 |
| 12 | bB | 937 | CLA | C1D-ND-C4D | -9.17 | 99.82 | 106.33 |
| 12 | aA | 841 | CLA | C1D-ND-C4D | -9.17 | 99.82 | 106.33 |
| 12 | aB | 937 | CLA | C1D-ND-C4D | -9.16 | 99.83 | 106.33 |
| 12 | cA | 853 | CLA | C2D-C1D-ND | 9.15 | 116.85 | 110.10 |
| 12 | aL | 202 | CLA | C1D-ND-C4D | -9.14 | 99.84 | 106.33 |
| 12 | cL | 202 | CLA | C1D-ND-C4D | -9.14 | 99.84 | 106.33 |
| 12 | bA | 853 | CLA | C2D-C1D-ND | 9.13 | 116.83 | 110.10 |
| 12 | aA | 854 | CLA | C2D-C1D-ND | 9.13 | 116.83 | 110.10 |
| 12 | cA | 810 | CLA | C1D-ND-C4D | -9.11 | 99.86 | 106.33 |
| 12 | aA | 810 | CLA | C1D-ND-C4D | -9.10 | 99.87 | 106.33 |
| 12 | cA | 839 | CLA | C1D-ND-C4D | -9.10 | 99.87 | 106.33 |
| 12 | bA | 823 | CLA | C1D-ND-C4D | -9.10 | 99.87 | 106.33 |
| 12 | bA | 839 | CLA | C1D-ND-C4D | -9.10 | 99.87 | 106.33 |
| 12 | bA | 810 | CLA | C1D-ND-C4D | -9.10 | 99.87 | 106.33 |
| 12 | aA | 823 | CLA | C1D-ND-C4D | -9.07 | 99.89 | 106.33 |
| 12 | bL | 202 | CLA | C1D-ND-C4D | -9.07 | 99.89 | 106.33 |
| 12 | aA | 839 | CLA | C1D-ND-C4D | -9.06 | 99.90 | 106.33 |
| 12 | cA | 823 | CLA | C1D-ND-C4D | -9.05 | 99.90 | 106.33 |
| 12 | aA | 809 | CLA | C1D-ND-C4D | -9.04 | 99.91 | 106.33 |
| 12 | cA | 826 | CLA | C1D-ND-C4D | -9.03 | 99.92 | 106.33 |
| 12 | cA | 809 | CLA | C1D-ND-C4D | -9.02 | 99.93 | 106.33 |
| 12 | bB | 902 | CLA | C1D-ND-C4D | -9.01 | 99.93 | 106.33 |
| 12 | bA | 826 | CLA | C1D-ND-C4D | -9.01 | 99.94 | 106.33 |
| 12 | bA | 809 | CLA | C1D-ND-C4D | -9.01 | 99.94 | 106.33 |
| 12 | aB | 902 | CLA | C1D-ND-C4D | -9.00 | 99.94 | 106.33 |
| 12 | cB | 902 | CLA | C1D-ND-C4D | -9.00 | 99.94 | 106.33 |
| 12 | bB | 936 | CLA | C1D-ND-C4D | -8.99 | 99.95 | 106.33 |
| 12 | aA | 826 | CLA | C1D-ND-C4D | -8.98 | 99.95 | 106.33 |
| 12 | aA | 820 | CLA | C1D-ND-C4D | -8.96 | 99.97 | 106.33 |
| 12 | cB | 936 | CLA | C1D-ND-C4D | -8.96 | 99.97 | 106.33 |
| 12 | cA | 808 | CLA | C1D-ND-C4D | -8.95 | 99.98 | 106.33 |
| 12 | aA | 826 | CLA | C2D-C1D-ND | 8.94 | 116.69 | 110.10 |
| 12 | bA | 826 | CLA | C2D-C1D-ND | 8.94 | 116.69 | 110.10 |
| 12 | aB | 936 | CLA | C1D-ND-C4D | -8.93 | 99.99 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | cA | 826 | CLA | C2D-C1D-ND | 8.92 | 116.68 | 110.10 |
| 12 | bA | 820 | CLA | C1D-ND-C4D | -8.92 | 100.00 | 106.33 |
| 12 | aA | 808 | CLA | C1D-ND-C4D | -8.91 | 100.01 | 106.33 |
| 12 | bF | 202 | CLA | C1D-ND-C4D | -8.91 | 100.01 | 106.33 |
| 12 | aB | 913 | CLA | C1D-ND-C4D | -8.90 | 100.01 | 106.33 |
| 12 | aF | 202 | CLA | C1D-ND-C4D | -8.90 | 100.01 | 106.33 |
| 12 | cA | 820 | CLA | C1D-ND-C4D | -8.89 | 100.02 | 106.33 |
| 12 | aB | 930 | CLA | C1D-ND-C4D | -8.89 | 100.02 | 106.33 |
| 12 | bB | 925 | CLA | C1D-ND-C4D | -8.88 | 100.03 | 106.33 |
| 12 | bB | 914 | CLA | C2D-C1D-ND | 8.87 | 116.64 | 110.10 |
| 12 | bA | 808 | CLA | C1D-ND-C4D | -8.87 | 100.03 | 106.33 |
| 12 | bB | 901 | CLA | C1D-ND-C4D | -8.87 | 100.03 | 106.33 |
| 12 | cB | 901 | CLA | C1D-ND-C4D | -8.87 | 100.03 | 106.33 |
| 12 | aB | 904 | CLA | C1D-ND-C4D | -8.86 | 100.04 | 106.33 |
| 12 | cB | 911 | CLA | C1D-ND-C4D | -8.85 | 100.05 | 106.33 |
| 12 | bB | 930 | CLA | C1D-ND-C4D | -8.85 | 100.05 | 106.33 |
| 12 | cF | 202 | CLA | C1D-ND-C4D | -8.85 | 100.05 | 106.33 |
| 12 | bB | 904 | CLA | C1D-ND-C4D | -8.84 | 100.06 | 106.33 |
| 12 | cB | 930 | CLA | C1D-ND-C4D | -8.83 | 100.06 | 106.33 |
| 12 | aB | 911 | CLA | C1D-ND-C4D | -8.83 | 100.06 | 106.33 |
| 12 | aB | 925 | CLA | C1D-ND-C4D | -8.83 | 100.06 | 106.33 |
| 12 | aB | 901 | CLA | C1D-ND-C4D | -8.81 | 100.07 | 106.33 |
| 12 | cB | 904 | CLA | C1D-ND-C4D | -8.81 | 100.08 | 106.33 |
| 12 | bA | 816 | CLA | C1D-ND-C4D | -8.81 | 100.08 | 106.33 |
| 12 | cB | 914 | CLA | C2D-C1D-ND | 8.80 | 116.59 | 110.10 |
| 12 | bA | 838 | CLA | C2D-C1D-ND | 8.80 | 116.59 | 110.10 |
| 12 | cB | 923 | CLA | C1D-ND-C4D | -8.80 | 100.09 | 106.33 |
| 12 | bA | 840 | CLA | C1D-ND-C4D | -8.79 | 100.09 | 106.33 |
| 12 | bB | 911 | CLA | C1D-ND-C4D | -8.79 | 100.09 | 106.33 |
| 12 | cA | 816 | CLA | C1D-ND-C4D | -8.79 | 100.09 | 106.33 |
| 12 | cA | 842 | CLA | C1D-ND-C4D | -8.78 | 100.10 | 106.33 |
| 12 | aA | 838 | CLA | C2D-C1D-ND | 8.78 | 116.57 | 110.10 |
| 12 | aB | 939 | CLA | C2D-C1D-ND | 8.78 | 116.57 | 110.10 |
| 12 | cB | 925 | CLA | C1D-ND-C4D | -8.78 | 100.10 | 106.33 |
| 12 | cA | 832 | CLA | C1D-ND-C4D | -8.77 | 100.10 | 106.33 |
| 12 | bB | 913 | CLA | C1D-ND-C4D | -8.77 | 100.11 | 106.33 |
| 12 | aB | 914 | CLA | C2D-C1D-ND | 8.77 | 116.57 | 110.10 |
| 12 | bA | 842 | CLA | C1D-ND-C4D | -8.76 | 100.11 | 106.33 |
| 12 | aA | 854 | CLA | C1D-ND-C4D | -8.76 | 100.11 | 106.33 |
| 12 | aA | 842 | CLA | C1D-ND-C4D | -8.76 | 100.11 | 106.33 |
| 12 | bA | 807 | CLA | C1D-ND-C4D | -8.76 | 100.11 | 106.33 |
| 12 | cB | 913 | CLA | C1D-ND-C4D | -8.76 | 100.11 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | aB | 923 | CLA | C1D-ND-C4D | -8.75 | 100.12 | 106.33 |
| 12 | aA | 805 | CLA | C1D-ND-C4D | -8.75 | 100.12 | 106.33 |
| 12 | aA | 840 | CLA | C1D-ND-C4D | -8.75 | 100.12 | 106.33 |
| 12 | bA | 853 | CLA | C1D-ND-C4D | -8.74 | 100.12 | 106.33 |
| 12 | cA | 805 | CLA | C1D-ND-C4D | -8.74 | 100.12 | 106.33 |
| 12 | cA | 853 | CLA | C1D-ND-C4D | -8.74 | 100.13 | 106.33 |
| 12 | cA | 838 | CLA | C2D-C1D-ND | 8.74 | 116.54 | 110.10 |
| 12 | aA | 816 | CLA | C1D-ND-C4D | -8.73 | 100.13 | 106.33 |
| 12 | cA | 807 | CLA | C1D-ND-C4D | -8.73 | 100.13 | 106.33 |
| 12 | aB | 905 | CLA | C1D-ND-C4D | -8.73 | 100.14 | 106.33 |
| 12 | bA | 836 | CLA | C1D-ND-C4D | -8.73 | 100.14 | 106.33 |
| 12 | bB | 923 | CLA | C1D-ND-C4D | -8.73 | 100.14 | 106.33 |
| 12 | bA | 805 | CLA | C1D-ND-C4D | -8.73 | 100.14 | 106.33 |
| 12 | aA | 832 | CLA | C1D-ND-C4D | -8.71 | 100.14 | 106.33 |
| 12 | bB | 939 | CLA | C2D-C1D-ND | 8.71 | 116.52 | 110.10 |
| 12 | aA | 836 | CLA | C1D-ND-C4D | -8.71 | 100.15 | 106.33 |
| 12 | bA | 810 | CLA | C2D-C1D-ND | 8.71 | 116.52 | 110.10 |
| 12 | bA | 832 | CLA | C1D-ND-C4D | -8.70 | 100.16 | 106.33 |
| 12 | cA | 836 | CLA | C1D-ND-C4D | -8.70 | 100.16 | 106.33 |
| 12 | aA | 807 | CLA | C1D-ND-C4D | -8.70 | 100.16 | 106.33 |
| 12 | aA | 810 | CLA | C2D-C1D-ND | 8.70 | 116.51 | 110.10 |
| 12 | cA | 810 | CLA | C2D-C1D-ND | 8.69 | 116.51 | 110.10 |
| 12 | cA | 840 | CLA | C1D-ND-C4D | -8.68 | 100.17 | 106.33 |
| 12 | cA | 828 | CLA | C1D-ND-C4D | -8.68 | 100.17 | 106.33 |
| 12 | aB | 929 | CLA | C2D-C1D-ND | 8.68 | 116.50 | 110.10 |
| 12 | bB | 929 | CLA | C2D-C1D-ND | 8.67 | 116.49 | 110.10 |
| 12 | cB | 939 | CLA | C2D-C1D-ND | 8.66 | 116.49 | 110.10 |
| 12 | bA | 812 | CLA | C1D-ND-C4D | -8.65 | 100.19 | 106.33 |
| 12 | cA | 812 | CLA | C1D-ND-C4D | -8.64 | 100.20 | 106.33 |
| 12 | bA | 804 | CLA | C2D-C1D-ND | 8.64 | 116.47 | 110.10 |
| 12 | aA | 843 | CLA | C1D-ND-C4D | -8.64 | 100.20 | 106.33 |
| 12 | bA | 828 | CLA | C1D-ND-C4D | -8.64 | 100.20 | 106.33 |
| 12 | bB | 905 | CLA | C1D-ND-C4D | -8.63 | 100.20 | 106.33 |
| 12 | aA | 828 | CLA | C1D-ND-C4D | -8.63 | 100.20 | 106.33 |
| 12 | aA | 812 | CLA | C1D-ND-C4D | -8.62 | 100.21 | 106.33 |
| 12 | cB | 929 | CLA | C2D-C1D-ND | 8.61 | 116.45 | 110.10 |
| 12 | cA | 804 | CLA | C2D-C1D-ND | 8.60 | 116.44 | 110.10 |
| 12 | cB | 921 | CLA | C1D-ND-C4D | -8.59 | 100.23 | 106.33 |
| 12 | cA | 839 | CLA | C2D-C1D-ND | 8.59 | 116.43 | 110.10 |
| 12 | cB | 905 | CLA | C1D-ND-C4D | -8.59 | 100.23 | 106.33 |
| 12 | aA | 804 | CLA | C2D-C1D-ND | 8.58 | 116.42 | 110.10 |
| 12 | cA | 802 | CLA | C1D-ND-C4D | -8.58 | 100.24 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | bB | 933 | CLA | C1D-ND-C4D | -8.57 | 100.25 | 106.33 |
| 12 | cA | 843 | CLA | C1D-ND-C4D | -8.57 | 100.25 | 106.33 |
| 12 | aB | 906 | CLA | C2D-C1D-ND | 8.57 | 116.42 | 110.10 |
| 12 | aB | 925 | CLA | C2D-C1D-ND | 8.57 | 116.42 | 110.10 |
| 12 | cA | 827 | CLA | C1D-ND-C4D | -8.57 | 100.25 | 106.33 |
| 12 | aB | 916 | CLA | C2D-C1D-ND | 8.56 | 116.42 | 110.10 |
| 12 | bB | 921 | CLA | C1D-ND-C4D | -8.56 | 100.25 | 106.33 |
| 12 | aA | 839 | CLA | C2D-C1D-ND | 8.56 | 116.41 | 110.10 |
| 12 | bB | 916 | CLA | C2D-C1D-ND | 8.56 | 116.41 | 110.10 |
| 12 | bA | 839 | CLA | C2D-C1D-ND | 8.56 | 116.41 | 110.10 |
| 12 | bB | 925 | CLA | C2D-C1D-ND | 8.56 | 116.41 | 110.10 |
| 12 | bB | 906 | CLA | C2D-C1D-ND | 8.55 | 116.40 | 110.10 |
| 12 | aA | 827 | CLA | C1D-ND-C4D | -8.55 | 100.26 | 106.33 |
| 12 | cB | 916 | CLA | C2D-C1D-ND | 8.54 | 116.39 | 110.10 |
| 12 | aB | 933 | CLA | C1D-ND-C4D | -8.54 | 100.27 | 106.33 |
| 12 | bA | 805 | CLA | C2D-C1D-ND | 8.53 | 116.39 | 110.10 |
| 12 | cB | 906 | CLA | C2D-C1D-ND | 8.53 | 116.39 | 110.10 |
| 12 | aA | 802 | CLA | C1D-ND-C4D | -8.53 | 100.27 | 106.33 |
| 12 | aA | 815 | CLA | C1D-ND-C4D | -8.53 | 100.28 | 106.33 |
| 12 | bA | 843 | CLA | C1D-ND-C4D | -8.52 | 100.28 | 106.33 |
| 12 | cB | 933 | CLA | C1D-ND-C4D | -8.52 | 100.28 | 106.33 |
| 12 | bA | 815 | CLA | C1D-ND-C4D | -8.52 | 100.28 | 106.33 |
| 12 | aB | 915 | CLA | C2D-C1D-ND | 8.52 | 116.38 | 110.10 |
| 12 | cA | 815 | CLA | C1D-ND-C4D | -8.51 | 100.29 | 106.33 |
| 12 | aB | 926 | CLA | C2D-C1D-ND | 8.51 | 116.37 | 110.10 |
| 12 | bA | 841 | CLA | C2D-C1D-ND | 8.51 | 116.37 | 110.10 |
| 12 | bB | 926 | CLA | C2D-C1D-ND | 8.51 | 116.37 | 110.10 |
| 12 | aB | 922 | CLA | C1D-ND-C4D | -8.51 | 100.29 | 106.33 |
| 12 | aA | 805 | CLA | C2D-C1D-ND | 8.51 | 116.37 | 110.10 |
| 12 | aB | 921 | CLA | C1D-ND-C4D | -8.50 | 100.30 | 106.33 |
| 12 | aB | 905 | CLA | C2D-C1D-ND | 8.50 | 116.37 | 110.10 |
| 12 | cA | 827 | CLA | C2D-C1D-ND | 8.49 | 116.36 | 110.10 |
| 12 | bB | 905 | CLA | C2D-C1D-ND | 8.49 | 116.36 | 110.10 |
| 12 | cA | 818 | CLA | C1D-ND-C4D | -8.49 | 100.31 | 106.33 |
| 12 | aA | 841 | CLA | C2D-C1D-ND | 8.48 | 116.36 | 110.10 |
| 12 | cB | 925 | CLA | C2D-C1D-ND | 8.48 | 116.36 | 110.10 |
| 12 | cA | 811 | CLA | C1D-ND-C4D | -8.48 | 100.31 | 106.33 |
| 12 | bA | 811 | CLA | C1D-ND-C4D | -8.48 | 100.31 | 106.33 |
| 12 | bB | 915 | CLA | C2D-C1D-ND | 8.47 | 116.35 | 110.10 |
| 12 | bA | 827 | CLA | C1D-ND-C4D | -8.47 | 100.32 | 106.33 |
| 12 | bB | 922 | CLA | C1D-ND-C4D | -8.47 | 100.32 | 106.33 |
| 12 | cB | 915 | CLA | C2D-C1D-ND | 8.47 | 116.35 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | bA | 802 | CLA | C1D-ND-C4D | -8.46 | 100.32 | 106.33 |
| 12 | aA | 827 | CLA | C2D-C1D-ND | 8.46 | 116.34 | 110.10 |
| 12 | cA | 805 | CLA | C2D-C1D-ND | 8.46 | 116.34 | 110.10 |
| 12 | bA | 825 | CLA | C1D-ND-C4D | -8.46 | 100.33 | 106.33 |
| 12 | cB | 905 | CLA | C2D-C1D-ND | 8.46 | 116.33 | 110.10 |
| 12 | bA | 818 | CLA | C1D-ND-C4D | -8.45 | 100.33 | 106.33 |
| 12 | cB | 926 | CLA | C2D-C1D-ND | 8.45 | 116.33 | 110.10 |
| 12 | aA | 818 | CLA | C1D-ND-C4D | -8.44 | 100.34 | 106.33 |
| 12 | aA | 809 | CLA | C2D-C1D-ND | 8.43 | 116.32 | 110.10 |
| 12 | bB | 950 | CLA | C1D-ND-C4D | -8.43 | 100.34 | 106.33 |
| 12 | cA | 825 | CLA | C1D-ND-C4D | -8.43 | 100.34 | 106.33 |
| 12 | cB | 924 | CLA | C1D-ND-C4D | -8.42 | 100.35 | 106.33 |
| 12 | cA | 841 | CLA | C2D-C1D-ND | 8.42 | 116.31 | 110.10 |
| 12 | aA | 825 | CLA | C1D-ND-C4D | -8.42 | 100.35 | 106.33 |
| 12 | cB | 922 | CLA | C1D-ND-C4D | -8.40 | 100.37 | 106.33 |
| 12 | bA | 809 | CLA | C2D-C1D-ND | 8.39 | 116.29 | 110.10 |
| 12 | aA | 844 | CLA | C1D-ND-C4D | -8.39 | 100.37 | 106.33 |
| 12 | aB | 938 | CLA | C1D-ND-C4D | -8.39 | 100.38 | 106.33 |
| 12 | bB | 938 | CLA | C1D-ND-C4D | -8.39 | 100.38 | 106.33 |
| 12 | aA | 806 | CLA | C2D-C1D-ND | 8.38 | 116.28 | 110.10 |
| 12 | bA | 827 | CLA | C2D-C1D-ND | 8.38 | 116.28 | 110.10 |
| 12 | cA | 807 | CLA | C2D-C1D-ND | 8.38 | 116.28 | 110.10 |
| 12 | cA | 842 | CLA | C2D-C1D-ND | 8.38 | 116.28 | 110.10 |
| 12 | bB | 926 | CLA | C1D-ND-C4D | -8.38 | 100.38 | 106.33 |
| 12 | aB | 926 | CLA | C1D-ND-C4D | -8.38 | 100.39 | 106.33 |
| 12 | aA | 811 | CLA | C1D-ND-C4D | -8.37 | 100.39 | 106.33 |
| 12 | cA | 809 | CLA | C2D-C1D-ND | 8.37 | 116.28 | 110.10 |
| 12 | aB | 950 | CLA | C1D-ND-C4D | -8.37 | 100.39 | 106.33 |
| 12 | cB | 912 | CLA | C1D-ND-C4D | -8.37 | 100.39 | 106.33 |
| 12 | bA | 842 | CLA | C2D-C1D-ND | 8.37 | 116.27 | 110.10 |
| 12 | bB | 924 | CLA | C1D-ND-C4D | -8.36 | 100.39 | 106.33 |
| 12 | bA | 820 | CLA | C2D-C1D-ND | 8.36 | 116.27 | 110.10 |
| 12 | aB | 918 | CLA | C1D-ND-C4D | -8.36 | 100.39 | 106.33 |
| 12 | cA | 806 | CLA | C2D-C1D-ND | 8.36 | 116.27 | 110.10 |
| 12 | aA | 820 | CLA | C2D-C1D-ND | 8.36 | 116.26 | 110.10 |
| 12 | cB | 926 | CLA | C1D-ND-C4D | -8.36 | 100.40 | 106.33 |
| 12 | cB | 938 | CLA | C1D-ND-C4D | -8.36 | 100.40 | 106.33 |
| 12 | cA | 814 | CLA | C1D-ND-C4D | -8.35 | 100.40 | 106.33 |
| 12 | aA | 842 | CLA | C2D-C1D-ND | 8.35 | 116.26 | 110.10 |
| 12 | bA | 806 | CLA | C2D-C1D-ND | 8.35 | 116.25 | 110.10 |
| 12 | aB | 912 | CLA | C1D-ND-C4D | -8.34 | 100.41 | 106.33 |
| 12 | bA | 819 | CLA | C1D-ND-C4D | -8.34 | 100.41 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | cB | 918 | CLA | C1D-ND-C4D | -8.33 | 100.41 | 106.33 |
| 12 | bB | 912 | CLA | C1D-ND-C4D | -8.33 | 100.42 | 106.33 |
| 12 | aB | 924 | CLA | C1D-ND-C4D | -8.33 | 100.42 | 106.33 |
| 12 | bL | 204 | CLA | C2D-C1D-ND | 8.33 | 116.24 | 110.10 |
| 12 | cL | 204 | CLA | C2D-C1D-ND | 8.33 | 116.24 | 110.10 |
| 12 | bB | 937 | CLA | C2D-C1D-ND | 8.32 | 116.24 | 110.10 |
| 12 | aB | 937 | CLA | C2D-C1D-ND | 8.32 | 116.24 | 110.10 |
| 12 | cB | 909 | CLA | C1D-ND-C4D | -8.32 | 100.42 | 106.33 |
| 12 | aA | 814 | CLA | C1D-ND-C4D | -8.32 | 100.43 | 106.33 |
| 12 | bB | 933 | CLA | C2D-C1D-ND | 8.32 | 116.23 | 110.10 |
| 12 | bA | 807 | CLA | C2D-C1D-ND | 8.31 | 116.23 | 110.10 |
| 12 | cA | 819 | CLA | C1D-ND-C4D | -8.31 | 100.43 | 106.33 |
| 12 | aA | 819 | CLA | C1D-ND-C4D | -8.30 | 100.44 | 106.33 |
| 12 | aL | 204 | CLA | C2D-C1D-ND | 8.30 | 116.22 | 110.10 |
| 12 | cB | 937 | CLA | C2D-C1D-ND | 8.30 | 116.22 | 110.10 |
| 12 | aA | 837 | CLA | C1D-ND-C4D | -8.29 | 100.44 | 106.33 |
| 12 | cA | 817 | CLA | C2D-C1D-ND | 8.29 | 116.21 | 110.10 |
| 12 | aA | 821 | CLA | C1D-ND-C4D | -8.29 | 100.45 | 106.33 |
| 12 | cA | 833 | CLA | C1D-ND-C4D | -8.29 | 100.45 | 106.33 |
| 12 | aB | 933 | CLA | C2D-C1D-ND | 8.28 | 116.21 | 110.10 |
| 12 | aB | 909 | CLA | C1D-ND-C4D | -8.28 | 100.45 | 106.33 |
| 12 | aA | 807 | CLA | C2D-C1D-ND | 8.27 | 116.20 | 110.10 |
| 12 | cA | 837 | CLA | C1D-ND-C4D | -8.27 | 100.46 | 106.33 |
| 12 | aA | 833 | CLA | C1D-ND-C4D | -8.27 | 100.46 | 106.33 |
| 12 | bA | 814 | CLA | C1D-ND-C4D | -8.27 | 100.46 | 106.33 |
| 12 | bB | 918 | CLA | C1D-ND-C4D | -8.26 | 100.46 | 106.33 |
| 12 | cA | 820 | CLA | C2D-C1D-ND | 8.26 | 116.19 | 110.10 |
| 12 | cA | 821 | CLA | C1D-ND-C4D | -8.26 | 100.47 | 106.33 |
| 12 | bB | 949 | CLA | C2D-C1D-ND | 8.25 | 116.19 | 110.10 |
| 12 | bA | 833 | CLA | C1D-ND-C4D | -8.24 | 100.48 | 106.33 |
| 12 | aA | 812 | CLA | C2D-C1D-ND | 8.24 | 116.18 | 110.10 |
| 12 | aB | 903 | CLA | C1D-ND-C4D | -8.24 | 100.48 | 106.33 |
| 12 | bA | 821 | CLA | C1D-ND-C4D | -8.23 | 100.48 | 106.33 |
| 12 | cB | 933 | CLA | C2D-C1D-ND | 8.23 | 116.17 | 110.10 |
| 12 | bA | 837 | CLA | C1D-ND-C4D | -8.23 | 100.49 | 106.33 |
| 12 | bB | 909 | CLA | C1D-ND-C4D | -8.22 | 100.49 | 106.33 |
| 12 | cB | 907 | CLA | C1D-ND-C4D | -8.22 | 100.49 | 106.33 |
| 12 | aB | 934 | CLA | C1D-ND-C4D | -8.21 | 100.50 | 106.33 |
| 12 | bB | 934 | CLA | C1D-ND-C4D | -8.21 | 100.50 | 106.33 |
| 12 | cA | 812 | CLA | C2D-C1D-ND | 8.20 | 116.15 | 110.10 |
| 12 | cA | 834 | CLA | C1D-ND-C4D | -8.19 | 100.52 | 106.33 |
| 12 | cB | 949 | CLA | C2D-C1D-ND | 8.19 | 116.14 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | cA | 835 | CLA | C1D-ND-C4D | -8.18 | 100.53 | 106.33 |
| 12 | bA | 817 | CLA | C2D-C1D-ND | 8.18 | 116.13 | 110.10 |
| 12 | bA | 812 | CLA | C2D-C1D-ND | 8.18 | 116.13 | 110.10 |
| 12 | aB | 949 | CLA | C2D-C1D-ND | 8.17 | 116.12 | 110.10 |
| 12 | bB | 907 | CLA | C1D-ND-C4D | -8.17 | 100.53 | 106.33 |
| 12 | cB | 903 | CLA | C1D-ND-C4D | -8.17 | 100.53 | 106.33 |
| 12 | bA | 828 | CLA | C2D-C1D-ND | 8.17 | 116.12 | 110.10 |
| 12 | aA | 834 | CLA | C1D-ND-C4D | -8.17 | 100.53 | 106.33 |
| 12 | aA | 817 | CLA | C2D-C1D-ND | 8.16 | 116.12 | 110.10 |
| 12 | bB | 903 | CLA | C1D-ND-C4D | -8.16 | 100.54 | 106.33 |
| 12 | aA | 828 | CLA | C2D-C1D-ND | 8.16 | 116.12 | 110.10 |
| 12 | cB | 901 | CLA | C2D-C1D-ND | 8.16 | 116.12 | 110.10 |
| 12 | cL | 202 | CLA | C2D-C1D-ND | 8.16 | 116.12 | 110.10 |
| 12 | cA | 828 | CLA | C2D-C1D-ND | 8.16 | 116.12 | 110.10 |
| 12 | bA | 835 | CLA | C1D-ND-C4D | -8.16 | 100.54 | 106.33 |
| 12 | cB | 934 | CLA | C1D-ND-C4D | -8.14 | 100.55 | 106.33 |
| 12 | aB | 903 | CLA | C2D-C1D-ND | 8.14 | 116.10 | 110.10 |
| 12 | aL | 202 | CLA | C2D-C1D-ND | 8.14 | 116.10 | 110.10 |
| 12 | bL | 202 | CLA | C2D-C1D-ND | 8.14 | 116.10 | 110.10 |
| 12 | bB | 910 | CLA | C1D-ND-C4D | -8.13 | 100.56 | 106.33 |
| 12 | aA | 835 | CLA | C1D-ND-C4D | -8.13 | 100.56 | 106.33 |
| 12 | bA | 834 | CLA | C1D-ND-C4D | -8.12 | 100.57 | 106.33 |
| 12 | cB | 903 | CLA | C2D-C1D-ND | 8.12 | 116.09 | 110.10 |
| 12 | bB | 903 | CLA | C2D-C1D-ND | 8.12 | 116.08 | 110.10 |
| 12 | aB | 910 | CLA | C1D-ND-C4D | -8.11 | 100.57 | 106.33 |
| 12 | aB | 907 | CLA | C1D-ND-C4D | -8.11 | 100.57 | 106.33 |
| 12 | aB | 932 | CLA | C2D-C1D-ND | 8.11 | 116.08 | 110.10 |
| 12 | bB | 901 | CLA | C2D-C1D-ND | 8.11 | 116.08 | 110.10 |
| 12 | aB | 901 | CLA | C2D-C1D-ND | 8.11 | 116.08 | 110.10 |
| 12 | cB | 932 | CLA | C2D-C1D-ND | 8.10 | 116.08 | 110.10 |
| 12 | aA | 813 | CLA | C1D-ND-C4D | -8.10 | 100.58 | 106.33 |
| 12 | cA | 813 | CLA | C1D-ND-C4D | -8.10 | 100.58 | 106.33 |
| 12 | aB | 917 | CLA | C2D-C1D-ND | 8.09 | 116.07 | 110.10 |
| 12 | cB | 917 | CLA | C2D-C1D-ND | 8.09 | 116.07 | 110.10 |
| 12 | bA | 823 | CLA | C2D-C1D-ND | 8.08 | 116.06 | 110.10 |
| 12 | bB | 950 | CLA | C2D-C1D-ND | 8.08 | 116.06 | 110.10 |
| 12 | cA | 834 | CLA | C2D-C1D-ND | 8.08 | 116.06 | 110.10 |
| 12 | cB | 910 | CLA | C1D-ND-C4D | -8.08 | 100.60 | 106.33 |
| 12 | bA | 813 | CLA | C1D-ND-C4D | -8.08 | 100.60 | 106.33 |
| 12 | bA | 824 | CLA | C1D-ND-C4D | -8.08 | 100.60 | 106.33 |
| 12 | aA | 829 | CLA | C1D-ND-C4D | -8.07 | 100.60 | 106.33 |
| 12 | cA | 824 | CLA | C1D-ND-C4D | -8.07 | 100.60 | 106.33 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | bA | 816 | CLA | C2D-C1D-ND | 8.07 | 116.05 | 110.10 |
| 12 | cB | 919 | CLA | C1D-ND-C4D | -8.07 | 100.60 | 106.33 |
| 12 | cA | 829 | CLA | C1D-ND-C4D | -8.07 | 100.61 | 106.33 |
| 12 | aA | 837 | CLA | C2D-C1D-ND | 8.06 | 116.05 | 110.10 |
| 12 | aA | 824 | CLA | C1D-ND-C4D | -8.06 | 100.61 | 106.33 |
| 12 | cA | 837 | CLA | C2D-C1D-ND | 8.06 | 116.04 | 110.10 |
| 12 | bB | 932 | CLA | C2D-C1D-ND | 8.05 | 116.04 | 110.10 |
| 12 | bB | 904 | CLA | C2D-C1D-ND | 8.05 | 116.04 | 110.10 |
| 12 | bA | 834 | CLA | C2D-C1D-ND | 8.05 | 116.04 | 110.10 |
| 12 | aB | 935 | CLA | C1D-ND-C4D | -8.05 | 100.62 | 106.33 |
| 12 | aA | 823 | CLA | C2D-C1D-ND | 8.04 | 116.03 | 110.10 |
| 12 | aB | 919 | CLA | C1D-ND-C4D | -8.04 | 100.62 | 106.33 |
| 12 | bB | 917 | CLA | C2D-C1D-ND | 8.04 | 116.03 | 110.10 |
| 12 | cA | 816 | CLA | C2D-C1D-ND | 8.04 | 116.03 | 110.10 |
| 12 | cA | 823 | CLA | C2D-C1D-ND | 8.04 | 116.03 | 110.10 |
| 12 | bA | 829 | CLA | C1D-ND-C4D | -8.04 | 100.63 | 106.33 |
| 12 | cB | 935 | CLA | C1D-ND-C4D | -8.03 | 100.63 | 106.33 |
| 12 | aA | 834 | CLA | C2D-C1D-ND | 8.03 | 116.02 | 110.10 |
| 12 | aA | 816 | CLA | C2D-C1D-ND | 8.03 | 116.02 | 110.10 |
| 12 | bA | 825 | CLA | C2D-C1D-ND | 8.02 | 116.02 | 110.10 |
| 12 | bA | 837 | CLA | C2D-C1D-ND | 8.02 | 116.02 | 110.10 |
| 12 | bB | 919 | CLA | C1D-ND-C4D | -8.02 | 100.64 | 106.33 |
| 12 | aB | 904 | CLA | C2D-C1D-ND | 8.00 | 116.00 | 110.10 |
| 12 | bB | 935 | CLA | C1D-ND-C4D | -8.00 | 100.65 | 106.33 |
| 12 | bB | 936 | CLA | C2D-C1D-ND | 8.00 | 116.00 | 110.10 |
| 12 | aB | 950 | CLA | C2D-C1D-ND | 7.99 | 115.99 | 110.10 |
| 12 | aA | 844 | CLA | C2D-C1D-ND | 7.98 | 115.98 | 110.10 |
| 12 | cB | 917 | CLA | C1D-ND-C4D | -7.98 | 100.67 | 106.33 |
| 12 | aB | 917 | CLA | C1D-ND-C4D | -7.98 | 100.67 | 106.33 |
| 12 | bA | 802 | CLA | C2D-C1D-ND | 7.97 | 115.98 | 110.10 |
| 12 | cA | 802 | CLA | C2D-C1D-ND | 7.97 | 115.98 | 110.10 |
| 12 | bB | 917 | CLA | C1D-ND-C4D | -7.97 | 100.67 | 106.33 |
| 12 | cB | 904 | CLA | C2D-C1D-ND | 7.97 | 115.97 | 110.10 |
| 12 | aA | 825 | CLA | C2D-C1D-ND | 7.96 | 115.97 | 110.10 |
| 12 | cB | 936 | CLA | C2D-C1D-ND | 7.95 | 115.97 | 110.10 |
| 12 | cA | 843 | CLA | C2D-C1D-ND | 7.94 | 115.96 | 110.10 |
| 12 | aA | 802 | CLA | C2D-C1D-ND | 7.94 | 115.95 | 110.10 |
| 12 | cA | 825 | CLA | C2D-C1D-ND | 7.94 | 115.95 | 110.10 |
| 12 | aA | 843 | CLA | C2D-C1D-ND | 7.93 | 115.95 | 110.10 |
| 12 | aA | 829 | CLA | C2D-C1D-ND | 7.93 | 115.94 | 110.10 |
| 12 | cB | 923 | CLA | C2D-C1D-ND | 7.92 | 115.94 | 110.10 |
| 12 | bB | 930 | CLA | C2D-C1D-ND | 7.90 | 115.93 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|-------|-------------|----------|
| 12 | cB | 930 | CLA | C2D-C1D-ND | 7.90 | 115.93 | 110.10 |
| 12 | cA | 829 | CLA | C2D-C1D-ND | 7.89 | 115.92 | 110.10 |
| 12 | aB | 930 | CLA | C2D-C1D-ND | 7.89 | 115.92 | 110.10 |
| 12 | cB | 919 | CLA | C2D-C1D-ND | 7.88 | 115.91 | 110.10 |
| 12 | aB | 923 | CLA | C2D-C1D-ND | 7.88 | 115.91 | 110.10 |
| 12 | aB | 936 | CLA | C2D-C1D-ND | 7.88 | 115.91 | 110.10 |
| 12 | aB | 913 | CLA | C2D-C1D-ND | 7.87 | 115.91 | 110.10 |
| 12 | bA | 829 | CLA | C2D-C1D-ND | 7.87 | 115.91 | 110.10 |
| 12 | bB | 923 | CLA | C2D-C1D-ND | 7.87 | 115.91 | 110.10 |
| 12 | bB | 912 | CLA | C2D-C1D-ND | 7.87 | 115.90 | 110.10 |
| 12 | cB | 912 | CLA | C2D-C1D-ND | 7.85 | 115.89 | 110.10 |
| 12 | bA | 843 | CLA | C2D-C1D-ND | 7.85 | 115.89 | 110.10 |
| 12 | bB | 919 | CLA | C2D-C1D-ND | 7.84 | 115.88 | 110.10 |
| 12 | cA | 832 | CLA | C2D-C1D-ND | 7.83 | 115.88 | 110.10 |
| 12 | aB | 919 | CLA | C2D-C1D-ND | 7.83 | 115.88 | 110.10 |
| 12 | cA | 831 | CLA | C1D-ND-C4D | -7.83 | 100.78 | 106.33 |
| 12 | aB | 912 | CLA | C2D-C1D-ND | 7.82 | 115.87 | 110.10 |
| 12 | aA | 832 | CLA | C2D-C1D-ND | 7.81 | 115.86 | 110.10 |
| 12 | aF | 202 | CLA | C2D-C1D-ND | 7.80 | 115.85 | 110.10 |
| 12 | bA | 830 | CLA | C2D-C1D-ND | 7.80 | 115.85 | 110.10 |
| 12 | bB | 913 | CLA | C2D-C1D-ND | 7.80 | 115.85 | 110.10 |
| 12 | cA | 833 | CLA | C2D-C1D-ND | 7.80 | 115.85 | 110.10 |
| 12 | bF | 202 | CLA | C2D-C1D-ND | 7.80 | 115.85 | 110.10 |
| 12 | cB | 913 | CLA | C2D-C1D-ND | 7.80 | 115.85 | 110.10 |
| 12 | cF | 202 | CLA | C2D-C1D-ND | 7.80 | 115.85 | 110.10 |
| 12 | bA | 833 | CLA | C2D-C1D-ND | 7.79 | 115.84 | 110.10 |
| 12 | aA | 831 | CLA | C1D-ND-C4D | -7.79 | 100.80 | 106.33 |
| 12 | bA | 830 | CLA | C1D-ND-C4D | -7.79 | 100.80 | 106.33 |
| 12 | bA | 831 | CLA | C1D-ND-C4D | -7.78 | 100.81 | 106.33 |
| 12 | aA | 833 | CLA | C2D-C1D-ND | 7.78 | 115.84 | 110.10 |
| 12 | bA | 832 | CLA | C2D-C1D-ND | 7.78 | 115.84 | 110.10 |
| 12 | aA | 830 | CLA | C2D-C1D-ND | 7.77 | 115.83 | 110.10 |
| 12 | aB | 911 | CLA | C2D-C1D-ND | 7.77 | 115.83 | 110.10 |
| 12 | bA | 818 | CLA | C2D-C1D-ND | 7.77 | 115.83 | 110.10 |
| 12 | cB | 909 | CLA | C2D-C1D-ND | 7.75 | 115.82 | 110.10 |
| 12 | aA | 818 | CLA | C2D-C1D-ND | 7.75 | 115.81 | 110.10 |
| 12 | cB | 911 | CLA | C2D-C1D-ND | 7.75 | 115.81 | 110.10 |
| 12 | bB | 909 | CLA | C2D-C1D-ND | 7.73 | 115.80 | 110.10 |
| 12 | cA | 818 | CLA | C2D-C1D-ND | 7.73 | 115.80 | 110.10 |
| 12 | cA | 830 | CLA | C2D-C1D-ND | 7.73 | 115.80 | 110.10 |
| 12 | aA | 830 | CLA | C1D-ND-C4D | -7.72 | 100.85 | 106.33 |
| 12 | aB | 909 | CLA | C2D-C1D-ND | 7.71 | 115.79 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 830 | CLA | C1D-ND-C4D | -7.71 | 100.86 | 106.33 |
| 12 | bB | 911 | CLA | C2D-C1D-ND | 7.68 | 115.76 | 110.10 |
| 12 | cA | 814 | CLA | C2D-C1D-ND | 7.65 | 115.75 | 110.10 |
| 12 | bA | 836 | CLA | C2D-C1D-ND | 7.65 | 115.74 | 110.10 |
| 12 | bA | 840 | CLA | C2D-C1D-ND | 7.65 | 115.74 | 110.10 |
| 12 | aA | 840 | CLA | C2D-C1D-ND | 7.64 | 115.73 | 110.10 |
| 12 | cA | 840 | CLA | C2D-C1D-ND | 7.63 | 115.73 | 110.10 |
| 12 | aA | 814 | CLA | C2D-C1D-ND | 7.62 | 115.72 | 110.10 |
| 12 | cB | 924 | CLA | C2D-C1D-ND | 7.62 | 115.72 | 110.10 |
| 12 | cA | 836 | CLA | C2D-C1D-ND | 7.62 | 115.72 | 110.10 |
| 12 | bA | 814 | CLA | C2D-C1D-ND | 7.61 | 115.72 | 110.10 |
| 12 | aA | 836 | CLA | C2D-C1D-ND | 7.60 | 115.70 | 110.10 |
| 12 | aA | 824 | CLA | C2D-C1D-ND | 7.59 | 115.70 | 110.10 |
| 12 | bA | 824 | CLA | C2D-C1D-ND | 7.59 | 115.70 | 110.10 |
| 12 | cA | 824 | CLA | C2D-C1D-ND | 7.58 | 115.69 | 110.10 |
| 12 | bA | 843 | CLA | CAA-C2A-C3A | -7.56 | 92.09 | 112.78 |
| 12 | cA | 843 | CLA | CAA-C2A-C3A | -7.56 | 92.09 | 112.78 |
| 12 | aA | 843 | CLA | CAA-C2A-C3A | -7.56 | 92.09 | 112.78 |
| 12 | cA | 835 | CLA | C2D-C1D-ND | 7.55 | 115.67 | 110.10 |
| 12 | cB | 927 | CLA | C1D-ND-C4D | -7.55 | 100.97 | 106.33 |
| 12 | cA | 813 | CLA | C2D-C1D-ND | 7.53 | 115.65 | 110.10 |
| 12 | aB | 924 | CLA | C2D-C1D-ND | 7.52 | 115.65 | 110.10 |
| 12 | aA | 813 | CLA | C2D-C1D-ND | 7.52 | 115.65 | 110.10 |
| 12 | bA | 835 | CLA | C2D-C1D-ND | 7.52 | 115.64 | 110.10 |
| 12 | bB | 924 | CLA | C2D-C1D-ND | 7.51 | 115.64 | 110.10 |
| 12 | bA | 819 | CLA | C2D-C1D-ND | 7.51 | 115.64 | 110.10 |
| 12 | cB | 918 | CLA | C2D-C1D-ND | 7.49 | 115.62 | 110.10 |
| 12 | bB | 918 | CLA | C2D-C1D-ND | 7.48 | 115.62 | 110.10 |
| 12 | aB | 918 | CLA | C2D-C1D-ND | 7.48 | 115.62 | 110.10 |
| 12 | aB | 927 | CLA | C1D-ND-C4D | -7.48 | 101.02 | 106.33 |
| 12 | cA | 819 | CLA | C2D-C1D-ND | 7.48 | 115.61 | 110.10 |
| 12 | bA | 813 | CLA | C2D-C1D-ND | 7.47 | 115.61 | 110.10 |
| 12 | aA | 835 | CLA | C2D-C1D-ND | 7.47 | 115.61 | 110.10 |
| 12 | aA | 819 | CLA | C2D-C1D-ND | 7.46 | 115.61 | 110.10 |
| 12 | aB | 928 | CLA | C1D-ND-C4D | -7.45 | 101.04 | 106.33 |
| 12 | cA | 821 | CLA | C2D-C1D-ND | 7.45 | 115.59 | 110.10 |
| 12 | bB | 922 | CLA | C2D-C1D-ND | 7.44 | 115.58 | 110.10 |
| 12 | cB | 928 | CLA | C1D-ND-C4D | -7.42 | 101.06 | 106.33 |
| 12 | aA | 821 | CLA | C2D-C1D-ND | 7.41 | 115.56 | 110.10 |
| 12 | bA | 821 | CLA | C2D-C1D-ND | 7.40 | 115.56 | 110.10 |
| 12 | bB | 927 | CLA | C1D-ND-C4D | -7.40 | 101.08 | 106.33 |
| 12 | cB | 922 | CLA | C2D-C1D-ND | 7.39 | 115.55 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 928 | CLA | C1D-ND-C4D | -7.39 | 101.09 | 106.33 |
| 12 | aB | 922 | CLA | C2D-C1D-ND | 7.39 | 115.55 | 110.10 |
| 12 | cA | 834 | CLA | O2D-CGD-CBD | 7.36 | 124.34 | 111.27 |
| 12 | cA | 808 | CLA | C2D-C1D-ND | 7.36 | 115.53 | 110.10 |
| 12 | aA | 834 | CLA | O2D-CGD-CBD | 7.35 | 124.33 | 111.27 |
| 12 | bA | 834 | CLA | O2D-CGD-CBD | 7.35 | 124.33 | 111.27 |
| 12 | aA | 808 | CLA | C2D-C1D-ND | 7.33 | 115.50 | 110.10 |
| 12 | cA | 815 | CLA | C2D-C1D-ND | 7.31 | 115.49 | 110.10 |
| 12 | bA | 808 | CLA | C2D-C1D-ND | 7.30 | 115.48 | 110.10 |
| 12 | aB | 938 | CLA | CMD-C2D-C1D | 7.30 | 137.57 | 124.71 |
| 12 | bA | 815 | CLA | C2D-C1D-ND | 7.30 | 115.48 | 110.10 |
| 11 | aA | 801 | CL0 | C1D-ND-C4D | -7.29 | 101.16 | 106.33 |
| 12 | cB | 938 | CLA | CMD-C2D-C1D | 7.28 | 137.55 | 124.71 |
| 12 | bB | 938 | CLA | CMD-C2D-C1D | 7.28 | 137.54 | 124.71 |
| 12 | cA | 811 | CLA | C2D-C1D-ND | 7.28 | 115.47 | 110.10 |
| 12 | aB | 935 | CLA | C2D-C1D-ND | 7.27 | 115.47 | 110.10 |
| 12 | aA | 815 | CLA | C2D-C1D-ND | 7.26 | 115.45 | 110.10 |
| 12 | bB | 907 | CLA | C2D-C1D-ND | 7.24 | 115.44 | 110.10 |
| 12 | aB | 910 | CLA | C2D-C1D-ND | 7.24 | 115.44 | 110.10 |
| 11 | bA | 801 | CL0 | C1D-ND-C4D | -7.24 | 101.19 | 106.33 |
| 12 | bB | 910 | CLA | C2D-C1D-ND | 7.23 | 115.43 | 110.10 |
| 11 | cA | 801 | CL0 | C1D-ND-C4D | -7.23 | 101.20 | 106.33 |
| 12 | aA | 811 | CLA | C2D-C1D-ND | 7.23 | 115.43 | 110.10 |
| 12 | cB | 907 | CLA | C2D-C1D-ND | 7.23 | 115.43 | 110.10 |
| 12 | bA | 811 | CLA | C2D-C1D-ND | 7.23 | 115.43 | 110.10 |
| 12 | cB | 910 | CLA | C2D-C1D-ND | 7.22 | 115.42 | 110.10 |
| 12 | aB | 907 | CLA | C2D-C1D-ND | 7.20 | 115.41 | 110.10 |
| 12 | cB | 935 | CLA | C2D-C1D-ND | 7.20 | 115.41 | 110.10 |
| 12 | bB | 935 | CLA | C2D-C1D-ND | 7.18 | 115.39 | 110.10 |
| 12 | cB | 908 | CLA | C2C-C1C-NC | 7.13 | 116.66 | 109.97 |
| 12 | bA | 818 | CLA | CMD-C2D-C1D | 7.11 | 137.25 | 124.71 |
| 12 | cB | 921 | CLA | C2D-C1D-ND | 7.11 | 115.34 | 110.10 |
| 12 | aA | 818 | CLA | CMD-C2D-C1D | 7.11 | 137.24 | 124.71 |
| 12 | cA | 818 | CLA | CMD-C2D-C1D | 7.10 | 137.22 | 124.71 |
| 12 | bB | 908 | CLA | C2C-C1C-NC | 7.09 | 116.61 | 109.97 |
| 12 | aB | 934 | CLA | C2D-C1D-ND | 7.08 | 115.32 | 110.10 |
| 12 | aB | 908 | CLA | C2C-C1C-NC | 7.07 | 116.59 | 109.97 |
| 12 | bB | 921 | CLA | C2D-C1D-ND | 7.06 | 115.31 | 110.10 |
| 12 | aB | 921 | CLA | C2D-C1D-ND | 7.04 | 115.30 | 110.10 |
| 12 | aB | 931 | CLA | CHD-C1D-ND | -7.04 | 117.98 | 124.45 |
| 12 | bB | 934 | CLA | C2D-C1D-ND | 7.01 | 115.27 | 110.10 |
| 12 | aA | 831 | CLA | C2D-C1D-ND | 7.00 | 115.27 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 928 | CLA | CMD-C2D-C1D | 7.00 | 137.04 | 124.71 |
| 12 | aB | 928 | CLA | CMD-C2D-C1D | 7.00 | 137.04 | 124.71 |
| 12 | cB | 928 | CLA | CMD-C2D-C1D | 7.00 | 137.04 | 124.71 |
| 12 | cA | 831 | CLA | C2D-C1D-ND | 6.98 | 115.25 | 110.10 |
| 12 | cB | 931 | CLA | CHD-C1D-ND | -6.98 | 118.04 | 124.45 |
| 12 | bA | 831 | CLA | C2D-C1D-ND | 6.98 | 115.25 | 110.10 |
| 12 | cB | 934 | CLA | C2D-C1D-ND | 6.97 | 115.24 | 110.10 |
| 12 | bB | 931 | CLA | CHD-C1D-ND | -6.95 | 118.07 | 124.45 |
| 12 | bA | 807 | CLA | CMD-C2D-C1D | 6.95 | 136.96 | 124.71 |
| 12 | cA | 807 | CLA | CMD-C2D-C1D | 6.94 | 136.95 | 124.71 |
| 12 | aA | 807 | CLA | CMD-C2D-C1D | 6.93 | 136.93 | 124.71 |
| 12 | bB | 938 | CLA | C2D-C1D-ND | 6.93 | 115.21 | 110.10 |
| 12 | aB | 938 | CLA | C2D-C1D-ND | 6.93 | 115.21 | 110.10 |
| 12 | cB | 938 | CLA | C2D-C1D-ND | 6.92 | 115.20 | 110.10 |
| 12 | aA | 802 | CLA | CHD-C1D-ND | -6.90 | 118.11 | 124.45 |
| 12 | bA | 802 | CLA | CHD-C1D-ND | -6.87 | 118.14 | 124.45 |
| 12 | cA | 802 | CLA | CHD-C1D-ND | -6.87 | 118.14 | 124.45 |
| 12 | cB | 921 | CLA | CMD-C2D-C1D | 6.85 | 136.79 | 124.71 |
| 12 | aB | 921 | CLA | CMD-C2D-C1D | 6.85 | 136.79 | 124.71 |
| 12 | cA | 822 | CLA | CHD-C1D-ND | -6.84 | 118.17 | 124.45 |
| 12 | bB | 921 | CLA | CMD-C2D-C1D | 6.84 | 136.77 | 124.71 |
| 12 | aA | 822 | CLA | CHD-C1D-ND | -6.82 | 118.19 | 124.45 |
| 12 | cL | 202 | CLA | CHD-C1D-ND | -6.82 | 118.19 | 124.45 |
| 12 | bA | 822 | CLA | CHD-C1D-ND | -6.82 | 118.19 | 124.45 |
| 12 | aL | 202 | CLA | CHD-C1D-ND | -6.80 | 118.20 | 124.45 |
| 12 | aB | 935 | CLA | CMD-C2D-C1D | 6.80 | 136.69 | 124.71 |
| 12 | bA | 819 | CLA | CAA-C2A-C1A | -6.80 | 89.70 | 111.97 |
| 12 | cB | 925 | CLA | O2D-CGD-CBD | 6.80 | 123.34 | 111.27 |
| 12 | cA | 819 | CLA | CAA-C2A-C1A | -6.79 | 89.72 | 111.97 |
| 12 | bB | 925 | CLA | O2D-CGD-CBD | 6.79 | 123.33 | 111.27 |
| 12 | aA | 819 | CLA | CAA-C2A-C1A | -6.79 | 89.72 | 111.97 |
| 12 | aB | 935 | CLA | CHD-C4C-C3C | -6.77 | 114.89 | 124.84 |
| 12 | cB | 935 | CLA | CMD-C2D-C1D | 6.77 | 136.65 | 124.71 |
| 12 | aB | 925 | CLA | O2D-CGD-CBD | 6.77 | 123.30 | 111.27 |
| 12 | bL | 202 | CLA | CHD-C1D-ND | -6.76 | 118.24 | 124.45 |
| 12 | bB | 935 | CLA | CMD-C2D-C1D | 6.76 | 136.63 | 124.71 |
| 12 | aB | 919 | CLA | O2D-CGD-CBD | 6.76 | 123.27 | 111.27 |
| 12 | bB | 935 | CLA | CHD-C4C-C3C | -6.74 | 114.93 | 124.84 |
| 12 | cB | 919 | CLA | O2D-CGD-CBD | 6.74 | 123.25 | 111.27 |
| 12 | bB | 919 | CLA | O2D-CGD-CBD | 6.73 | 123.23 | 111.27 |
| 12 | bA | 833 | CLA | CMD-C2D-C1D | 6.73 | 136.58 | 124.71 |
| 12 | cB | 935 | CLA | CHD-C4C-C3C | -6.73 | 114.95 | 124.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 833 | CLA | CMD-C2D-C1D | 6.72 | 136.56 | 124.71 |
| 12 | aA | 833 | CLA | CMD-C2D-C1D | 6.71 | 136.53 | 124.71 |
| 12 | aB | 908 | CLA | C1D-ND-C4D | -6.70 | 101.57 | 106.33 |
| 12 | aA | 811 | CLA | CMD-C2D-C1D | 6.70 | 136.52 | 124.71 |
| 12 | cA | 811 | CLA | CMD-C2D-C1D | 6.68 | 136.49 | 124.71 |
| 12 | aB | 937 | CLA | CMD-C2D-C1D | 6.67 | 136.48 | 124.71 |
| 12 | cB | 937 | CLA | CMD-C2D-C1D | 6.67 | 136.47 | 124.71 |
| 12 | bB | 937 | CLA | CMD-C2D-C1D | 6.67 | 136.47 | 124.71 |
| 12 | bA | 811 | CLA | CMD-C2D-C1D | 6.67 | 136.46 | 124.71 |
| 12 | bB | 908 | CLA | C2D-C1D-ND | 6.66 | 115.01 | 110.10 |
| 12 | cB | 908 | CLA | C1D-ND-C4D | -6.66 | 101.61 | 106.33 |
| 12 | aB | 915 | CLA | CMD-C2D-C1D | 6.66 | 136.44 | 124.71 |
| 12 | aB | 902 | CLA | CHD-C1D-ND | -6.66 | 118.34 | 124.45 |
| 12 | bA | 808 | CLA | CMD-C2D-C1D | 6.65 | 136.43 | 124.71 |
| 12 | bB | 931 | CLA | CMD-C2D-C1D | 6.65 | 136.43 | 124.71 |
| 12 | cB | 915 | CLA | CMD-C2D-C1D | 6.64 | 136.42 | 124.71 |
| 12 | bB | 915 | CLA | CMD-C2D-C1D | 6.64 | 136.42 | 124.71 |
| 12 | bB | 908 | CLA | C1D-ND-C4D | -6.64 | 101.62 | 106.33 |
| 12 | cA | 808 | CLA | CMD-C2D-C1D | 6.64 | 136.41 | 124.71 |
| 12 | bL | 204 | CLA | CMD-C2D-C1D | 6.63 | 136.41 | 124.71 |
| 12 | cB | 902 | CLA | CHD-C1D-ND | -6.63 | 118.36 | 124.45 |
| 12 | aA | 808 | CLA | CMD-C2D-C1D | 6.63 | 136.39 | 124.71 |
| 12 | aB | 931 | CLA | CMD-C2D-C1D | 6.63 | 136.39 | 124.71 |
| 12 | bB | 902 | CLA | CHD-C1D-ND | -6.63 | 118.36 | 124.45 |
| 12 | aL | 204 | CLA | CMD-C2D-C1D | 6.62 | 136.38 | 124.71 |
| 12 | cL | 204 | CLA | CMD-C2D-C1D | 6.62 | 136.37 | 124.71 |
| 12 | cB | 931 | CLA | CMD-C2D-C1D | 6.61 | 136.37 | 124.71 |
| 12 | aB | 932 | CLA | CMD-C2D-C1D | 6.61 | 136.37 | 124.71 |
| 12 | aB | 908 | CLA | C2D-C1D-ND | 6.61 | 114.97 | 110.10 |
| 12 | bB | 925 | CLA | CMD-C2D-C1D | 6.61 | 136.36 | 124.71 |
| 12 | bB | 932 | CLA | CMD-C2D-C1D | 6.60 | 136.35 | 124.71 |
| 12 | aB | 925 | CLA | CMD-C2D-C1D | 6.60 | 136.34 | 124.71 |
| 12 | cB | 908 | CLA | C2D-C1D-ND | 6.60 | 114.97 | 110.10 |
| 12 | cB | 932 | CLA | CMD-C2D-C1D | 6.59 | 136.33 | 124.71 |
| 12 | cB | 924 | CLA | CMD-C2D-C1D | 6.59 | 136.32 | 124.71 |
| 12 | bL | 202 | CLA | CMD-C2D-C1D | 6.58 | 136.32 | 124.71 |
| 12 | cB | 925 | CLA | CMD-C2D-C1D | 6.58 | 136.30 | 124.71 |
| 12 | bB | 936 | CLA | CMD-C2D-C1D | 6.58 | 136.30 | 124.71 |
| 12 | aL | 202 | CLA | CMD-C2D-C1D | 6.57 | 136.29 | 124.71 |
| 12 | cB | 936 | CLA | CMD-C2D-C1D | 6.56 | 136.28 | 124.71 |
| 12 | bB | 915 | CLA | CHD-C4C-C3C | -6.56 | 115.20 | 124.84 |
| 12 | bB | 949 | CLA | CMD-C2D-C1D | 6.56 | 136.28 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 901 | CLA | CHD-C4C-C3C | -6.56 | 115.20 | 124.84 |
| 12 | bB | 924 | CLA | CMD-C2D-C1D | 6.56 | 136.27 | 124.71 |
| 12 | cL | 202 | CLA | CMD-C2D-C1D | 6.55 | 136.26 | 124.71 |
| 12 | cB | 915 | CLA | CHD-C4C-C3C | -6.55 | 115.21 | 124.84 |
| 12 | aB | 924 | CLA | CMD-C2D-C1D | 6.55 | 136.26 | 124.71 |
| 12 | aA | 806 | CLA | CHD-C1D-ND | -6.55 | 118.44 | 124.45 |
| 12 | aB | 915 | CLA | CHD-C4C-C3C | -6.54 | 115.22 | 124.84 |
| 12 | aB | 901 | CLA | CHD-C4C-C3C | -6.54 | 115.23 | 124.84 |
| 12 | bB | 914 | CLA | CHD-C4C-C3C | -6.54 | 115.23 | 124.84 |
| 12 | bB | 901 | CLA | CHD-C4C-C3C | -6.53 | 115.24 | 124.84 |
| 12 | cA | 815 | CLA | CMD-C2D-C1D | 6.53 | 136.22 | 124.71 |
| 12 | aB | 936 | CLA | CMD-C2D-C1D | 6.53 | 136.22 | 124.71 |
| 12 | aB | 914 | CLA | CHD-C4C-C3C | -6.52 | 115.26 | 124.84 |
| 12 | cB | 914 | CLA | CHD-C4C-C3C | -6.52 | 115.26 | 124.84 |
| 12 | aB | 927 | CLA | C2D-C1D-ND | 6.52 | 114.91 | 110.10 |
| 12 | cB | 920 | CLA | CHD-C1D-ND | -6.52 | 118.47 | 124.45 |
| 12 | cB | 949 | CLA | CMD-C2D-C1D | 6.51 | 136.19 | 124.71 |
| 12 | aB | 949 | CLA | CMD-C2D-C1D | 6.51 | 136.19 | 124.71 |
| 12 | bB | 920 | CLA | CHD-C1D-ND | -6.51 | 118.47 | 124.45 |
| 12 | bA | 806 | CLA | CMD-C2D-C1D | 6.51 | 136.18 | 124.71 |
| 12 | aA | 815 | CLA | CMD-C2D-C1D | 6.51 | 136.18 | 124.71 |
| 12 | bA | 815 | CLA | CMD-C2D-C1D | 6.50 | 136.18 | 124.71 |
| 12 | cA | 806 | CLA | CMD-C2D-C1D | 6.50 | 136.18 | 124.71 |
| 12 | aB | 934 | CLA | CMD-C2D-C1D | 6.50 | 136.17 | 124.71 |
| 12 | aB | 925 | CLA | CHD-C4C-C3C | -6.50 | 115.29 | 124.84 |
| 12 | aB | 920 | CLA | CHD-C1D-ND | -6.50 | 118.48 | 124.45 |
| 12 | aA | 806 | CLA | CMD-C2D-C1D | 6.50 | 136.16 | 124.71 |
| 12 | bB | 925 | CLA | CHD-C4C-C3C | -6.49 | 115.30 | 124.84 |
| 12 | cB | 927 | CLA | C2D-C1D-ND | 6.48 | 114.88 | 110.10 |
| 12 | cB | 934 | CLA | CMD-C2D-C1D | 6.48 | 136.14 | 124.71 |
| 12 | cB | 925 | CLA | CHD-C4C-C3C | -6.48 | 115.31 | 124.84 |
| 12 | bB | 934 | CLA | CMD-C2D-C1D | 6.48 | 136.12 | 124.71 |
| 12 | cA | 806 | CLA | CHD-C1D-ND | -6.47 | 118.51 | 124.45 |
| 12 | cB | 922 | CLA | CMD-C2D-C1D | 6.47 | 136.11 | 124.71 |
| 12 | aA | 823 | CLA | CMD-C2D-C1D | 6.47 | 136.11 | 124.71 |
| 12 | bA | 806 | CLA | CHD-C1D-ND | -6.46 | 118.51 | 124.45 |
| 12 | bB | 922 | CLA | CMD-C2D-C1D | 6.46 | 136.10 | 124.71 |
| 12 | cA | 809 | CLA | CMD-C2D-C1D | 6.46 | 136.09 | 124.71 |
| 12 | aA | 837 | CLA | CMD-C2D-C1D | 6.45 | 136.09 | 124.71 |
| 12 | bA | 809 | CLA | CMD-C2D-C1D | 6.45 | 136.08 | 124.71 |
| 12 | bA | 804 | CLA | O2D-CGD-CBD | 6.45 | 122.73 | 111.27 |
| 12 | bB | 927 | CLA | C2D-C1D-ND | 6.45 | 114.86 | 110.10 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 922 | CLA | CMD-C2D-C1D | 6.44 | 136.07 | 124.71 |
| 12 | cA | 823 | CLA | CMD-C2D-C1D | 6.44 | 136.06 | 124.71 |
| 12 | aA | 809 | CLA | CMD-C2D-C1D | 6.44 | 136.06 | 124.71 |
| 12 | cA | 837 | CLA | CMD-C2D-C1D | 6.43 | 136.05 | 124.71 |
| 12 | bB | 923 | CLA | O2D-CGD-CBD | 6.43 | 122.69 | 111.27 |
| 12 | bA | 823 | CLA | CMD-C2D-C1D | 6.42 | 136.03 | 124.71 |
| 12 | aB | 923 | CLA | O2D-CGD-CBD | 6.42 | 122.68 | 111.27 |
| 12 | cB | 923 | CLA | O2D-CGD-CBD | 6.42 | 122.67 | 111.27 |
| 12 | aA | 804 | CLA | O2D-CGD-CBD | 6.42 | 122.67 | 111.27 |
| 12 | cA | 804 | CLA | O2D-CGD-CBD | 6.41 | 122.66 | 111.27 |
| 11 | aA | 801 | CL0 | C2C-C1C-NC | 6.41 | 115.97 | 109.97 |
| 12 | bA | 837 | CLA | CMD-C2D-C1D | 6.41 | 136.00 | 124.71 |
| 12 | cA | 805 | CLA | O2D-CGD-CBD | 6.40 | 122.64 | 111.27 |
| 12 | aB | 939 | CLA | C2C-C1C-NC | 6.40 | 115.96 | 109.97 |
| 12 | bA | 822 | CLA | CMD-C2D-C1D | 6.39 | 135.98 | 124.71 |
| 12 | bB | 939 | CLA | C2C-C1C-NC | 6.39 | 115.96 | 109.97 |
| 12 | bB | 914 | CLA | O2D-CGD-CBD | 6.38 | 122.61 | 111.27 |
| 12 | cA | 822 | CLA | CMD-C2D-C1D | 6.38 | 135.96 | 124.71 |
| 11 | cA | 801 | CL0 | C2C-C1C-NC | 6.38 | 115.95 | 109.97 |
| 12 | aA | 822 | CLA | CMD-C2D-C1D | 6.38 | 135.95 | 124.71 |
| 12 | bA | 805 | CLA | O2D-CGD-CBD | 6.37 | 122.60 | 111.27 |
| 12 | aA | 805 | CLA | O2D-CGD-CBD | 6.37 | 122.59 | 111.27 |
| 12 | cB | 914 | CLA | O2D-CGD-CBD | 6.37 | 122.59 | 111.27 |
| 12 | bB | 936 | CLA | CHD-C1D-ND | -6.37 | 118.60 | 124.45 |
| 12 | aB | 914 | CLA | O2D-CGD-CBD | 6.37 | 122.59 | 111.27 |
| 12 | cB | 926 | CLA | CHD-C4C-C3C | -6.37 | 115.48 | 124.84 |
| 12 | aB | 920 | CLA | CMD-C2D-C1D | 6.37 | 135.93 | 124.71 |
| 12 | aB | 939 | CLA | CMD-C2D-C1D | 6.36 | 135.93 | 124.71 |
| 12 | bB | 905 | CLA | CMD-C2D-C1D | 6.36 | 135.92 | 124.71 |
| 11 | bA | 801 | CL0 | C2C-C1C-NC | 6.36 | 115.93 | 109.97 |
| 12 | bB | 920 | CLA | CMD-C2D-C1D | 6.36 | 135.91 | 124.71 |
| 12 | bB | 939 | CLA | CMD-C2D-C1D | 6.35 | 135.91 | 124.71 |
| 12 | cB | 920 | CLA | CMD-C2D-C1D | 6.35 | 135.91 | 124.71 |
| 12 | cB | 905 | CLA | CMD-C2D-C1D | 6.35 | 135.91 | 124.71 |
| 12 | bB | 926 | CLA | CHD-C4C-C3C | -6.35 | 115.50 | 124.84 |
| 12 | cA | 821 | CLA | CMD-C2D-C1D | 6.35 | 135.90 | 124.71 |
| 12 | cB | 939 | CLA | C2C-C1C-NC | 6.35 | 115.92 | 109.97 |
| 12 | aA | 821 | CLA | CMD-C2D-C1D | 6.33 | 135.87 | 124.71 |
| 12 | aB | 905 | CLA | CMD-C2D-C1D | 6.33 | 135.87 | 124.71 |
| 12 | bA | 821 | CLA | CMD-C2D-C1D | 6.33 | 135.87 | 124.71 |
| 12 | bB | 929 | CLA | O2D-CGD-CBD | 6.33 | 122.52 | 111.27 |
| 12 | cB | 919 | CLA | CMD-C2D-C1D | 6.33 | 135.87 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 929 | CLA | O2D-CGD-CBD | 6.33 | 122.51 | 111.27 |
| 12 | cB | 929 | CLA | O2D-CGD-CBD | 6.32 | 122.50 | 111.27 |
| 12 | aB | 926 | CLA | CHD-C4C-C3C | -6.32 | 115.55 | 124.84 |
| 12 | bB | 924 | CLA | O2D-CGD-CBD | 6.32 | 122.49 | 111.27 |
| 12 | cB | 939 | CLA | CMD-C2D-C1D | 6.32 | 135.84 | 124.71 |
| 12 | aB | 919 | CLA | CMD-C2D-C1D | 6.31 | 135.83 | 124.71 |
| 12 | aB | 924 | CLA | O2D-CGD-CBD | 6.31 | 122.48 | 111.27 |
| 12 | bA | 838 | CLA | CMD-C2D-C1D | 6.31 | 135.83 | 124.71 |
| 12 | cB | 924 | CLA | O2D-CGD-CBD | 6.31 | 122.48 | 111.27 |
| 12 | aB | 932 | CLA | CHD-C1D-ND | -6.30 | 118.66 | 124.45 |
| 12 | aA | 838 | CLA | CMD-C2D-C1D | 6.30 | 135.82 | 124.71 |
| 12 | cA | 838 | CLA | CMD-C2D-C1D | 6.30 | 135.81 | 124.71 |
| 12 | bB | 932 | CLA | CHD-C1D-ND | -6.30 | 118.67 | 124.45 |
| 12 | cB | 932 | CLA | CHD-C1D-ND | -6.30 | 118.67 | 124.45 |
| 12 | bB | 919 | CLA | CMD-C2D-C1D | 6.30 | 135.81 | 124.71 |
| 12 | cB | 936 | CLA | CHD-C1D-ND | -6.29 | 118.67 | 124.45 |
| 12 | aA | 842 | CLA | CMD-C2D-C1D | 6.29 | 135.80 | 124.71 |
| 12 | bA | 842 | CLA | CMD-C2D-C1D | 6.28 | 135.78 | 124.71 |
| 12 | cB | 923 | CLA | CHD-C4C-C3C | -6.28 | 115.61 | 124.84 |
| 12 | aB | 936 | CLA | CHD-C1D-ND | -6.27 | 118.69 | 124.45 |
| 12 | cA | 842 | CLA | CMD-C2D-C1D | 6.26 | 135.75 | 124.71 |
| 12 | cA | 827 | CLA | CHD-C4C-C3C | -6.26 | 115.64 | 124.84 |
| 12 | bA | 827 | CLA | CHD-C4C-C3C | -6.26 | 115.64 | 124.84 |
| 12 | bB | 909 | CLA | C2C-C1C-NC | 6.25 | 115.83 | 109.97 |
| 12 | aA | 827 | CLA | CHD-C4C-C3C | -6.25 | 115.65 | 124.84 |
| 12 | cB | 929 | CLA | CHD-C4C-C3C | -6.25 | 115.66 | 124.84 |
| 12 | bA | 802 | CLA | CMD-C2D-C1D | 6.24 | 135.72 | 124.71 |
| 12 | aB | 937 | CLA | CHD-C1D-ND | -6.24 | 118.72 | 124.45 |
| 12 | aA | 830 | CLA | O2D-CGD-CBD | 6.23 | 122.34 | 111.27 |
| 12 | aB | 923 | CLA | CHD-C4C-C3C | -6.23 | 115.68 | 124.84 |
| 12 | bB | 929 | CLA | CMD-C2D-C1D | 6.23 | 135.69 | 124.71 |
| 12 | cA | 824 | CLA | C2C-C1C-NC | 6.23 | 115.81 | 109.97 |
| 12 | bB | 937 | CLA | CHD-C1D-ND | -6.23 | 118.73 | 124.45 |
| 12 | bA | 830 | CLA | O2D-CGD-CBD | 6.23 | 122.33 | 111.27 |
| 12 | cB | 937 | CLA | CHD-C1D-ND | -6.23 | 118.73 | 124.45 |
| 12 | cA | 830 | CLA | O2D-CGD-CBD | 6.23 | 122.33 | 111.27 |
| 12 | cA | 802 | CLA | CMD-C2D-C1D | 6.22 | 135.68 | 124.71 |
| 12 | bB | 929 | CLA | CHD-C4C-C3C | -6.22 | 115.70 | 124.84 |
| 11 | aA | 801 | CL0 | C2D-C1D-ND | 6.21 | 114.68 | 110.10 |
| 12 | bB | 923 | CLA | CHD-C4C-C3C | -6.21 | 115.71 | 124.84 |
| 12 | aB | 929 | CLA | CHD-C4C-C3C | -6.21 | 115.71 | 124.84 |
| 12 | cA | 853 | CLA | O2D-CGD-CBD | 6.21 | 122.30 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 929 | CLA | CHD-C1D-ND | -6.21 | 118.75 | 124.45 |
| 12 | bB | 929 | CLA | CHD-C1D-ND | -6.21 | 118.75 | 124.45 |
| 12 | aB | 929 | CLA | CMD-C2D-C1D | 6.21 | 135.65 | 124.71 |
| 12 | bB | 912 | CLA | CMD-C2D-C1D | 6.21 | 135.65 | 124.71 |
| 12 | aB | 912 | CLA | CMD-C2D-C1D | 6.20 | 135.65 | 124.71 |
| 12 | cB | 929 | CLA | CMD-C2D-C1D | 6.20 | 135.64 | 124.71 |
| 12 | aA | 824 | CLA | C2C-C1C-NC | 6.20 | 115.78 | 109.97 |
| 12 | bB | 933 | CLA | C2C-C1C-NC | 6.20 | 115.78 | 109.97 |
| 12 | cB | 933 | CLA | C2C-C1C-NC | 6.20 | 115.78 | 109.97 |
| 12 | aA | 802 | CLA | CMD-C2D-C1D | 6.20 | 135.63 | 124.71 |
| 12 | aA | 854 | CLA | O2D-CGD-CBD | 6.19 | 122.28 | 111.27 |
| 12 | cL | 204 | CLA | CHD-C1D-ND | -6.19 | 118.76 | 124.45 |
| 12 | cB | 909 | CLA | C2C-C1C-NC | 6.19 | 115.77 | 109.97 |
| 12 | aB | 915 | CLA | CHD-C1D-ND | -6.19 | 118.77 | 124.45 |
| 12 | cB | 907 | CLA | CMD-C2D-C1D | 6.18 | 135.60 | 124.71 |
| 12 | bB | 907 | CLA | CMD-C2D-C1D | 6.18 | 135.60 | 124.71 |
| 12 | bB | 905 | CLA | CHD-C4C-C3C | -6.18 | 115.76 | 124.84 |
| 12 | aB | 907 | CLA | CMD-C2D-C1D | 6.17 | 135.59 | 124.71 |
| 12 | cB | 912 | CLA | CMD-C2D-C1D | 6.17 | 135.59 | 124.71 |
| 12 | bA | 824 | CLA | C2C-C1C-NC | 6.17 | 115.75 | 109.97 |
| 12 | aF | 202 | CLA | CMD-C2D-C1D | 6.17 | 135.59 | 124.71 |
| 12 | bA | 853 | CLA | O2D-CGD-CBD | 6.17 | 122.23 | 111.27 |
| 12 | aB | 909 | CLA | C2C-C1C-NC | 6.17 | 115.75 | 109.97 |
| 12 | aB | 903 | CLA | CMD-C2D-C1D | 6.17 | 135.59 | 124.71 |
| 12 | aA | 828 | CLA | CHD-C4C-C3C | -6.17 | 115.77 | 124.84 |
| 12 | bB | 903 | CLA | CMD-C2D-C1D | 6.17 | 135.59 | 124.71 |
| 12 | bF | 202 | CLA | CMD-C2D-C1D | 6.17 | 135.58 | 124.71 |
| 12 | bB | 915 | CLA | CHD-C1D-ND | -6.17 | 118.79 | 124.45 |
| 12 | bL | 204 | CLA | CHD-C1D-ND | -6.17 | 118.79 | 124.45 |
| 12 | bA | 817 | CLA | CMD-C2D-C1D | 6.17 | 135.58 | 124.71 |
| 12 | cB | 903 | CLA | CMD-C2D-C1D | 6.17 | 135.58 | 124.71 |
| 12 | aB | 933 | CLA | C2C-C1C-NC | 6.16 | 115.75 | 109.97 |
| 12 | cA | 817 | CLA | CMD-C2D-C1D | 6.16 | 135.57 | 124.71 |
| 12 | cF | 202 | CLA | CMD-C2D-C1D | 6.16 | 135.57 | 124.71 |
| 12 | cB | 929 | CLA | CHD-C1D-ND | -6.16 | 118.79 | 124.45 |
| 12 | cB | 916 | CLA | CHD-C4C-C3C | -6.16 | 115.78 | 124.84 |
| 12 | aA | 817 | CLA | CMD-C2D-C1D | 6.16 | 135.57 | 124.71 |
| 12 | cA | 839 | CLA | CHD-C4C-C3C | -6.16 | 115.79 | 124.84 |
| 12 | cB | 905 | CLA | CHD-C4C-C3C | -6.16 | 115.79 | 124.84 |
| 12 | aA | 812 | CLA | CMD-C2D-C1D | 6.16 | 135.56 | 124.71 |
| 12 | cB | 915 | CLA | CHD-C1D-ND | -6.15 | 118.80 | 124.45 |
| 12 | aL | 204 | CLA | CHD-C1D-ND | -6.15 | 118.80 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 11 | cA | 801 | CL0 | C2D-C1D-ND | 6.15 | 114.64 | 110.10 |
| 12 | cA | 817 | CLA | CHD-C4C-C3C | -6.15 | 115.80 | 124.84 |
| 12 | cA | 827 | CLA | CMD-C2D-C1D | 6.15 | 135.55 | 124.71 |
| 12 | cA | 828 | CLA | CHD-C4C-C3C | -6.15 | 115.80 | 124.84 |
| 12 | aA | 817 | CLA | CHD-C4C-C3C | -6.15 | 115.81 | 124.84 |
| 11 | bA | 801 | CL0 | C2D-C1D-ND | 6.14 | 114.63 | 110.10 |
| 12 | bB | 916 | CLA | CHD-C4C-C3C | -6.14 | 115.81 | 124.84 |
| 12 | cB | 907 | CLA | O2D-CGD-CBD | 6.14 | 122.18 | 111.27 |
| 12 | aB | 907 | CLA | O2D-CGD-CBD | 6.14 | 122.18 | 111.27 |
| 12 | cA | 834 | CLA | CMD-C2D-C1D | 6.14 | 135.53 | 124.71 |
| 12 | bA | 828 | CLA | CHD-C4C-C3C | -6.14 | 115.82 | 124.84 |
| 12 | aB | 905 | CLA | CHD-C4C-C3C | -6.14 | 115.82 | 124.84 |
| 12 | aA | 827 | CLA | CMD-C2D-C1D | 6.13 | 135.52 | 124.71 |
| 12 | aA | 841 | CLA | CMD-C2D-C1D | 6.13 | 135.52 | 124.71 |
| 12 | aA | 807 | CLA | CHD-C4C-C3C | -6.13 | 115.83 | 124.84 |
| 12 | aB | 949 | CLA | CHD-C4C-C3C | -6.13 | 115.83 | 124.84 |
| 12 | aA | 836 | CLA | C2C-C1C-NC | 6.13 | 115.72 | 109.97 |
| 12 | cA | 812 | CLA | CMD-C2D-C1D | 6.13 | 135.52 | 124.71 |
| 12 | bA | 834 | CLA | CMD-C2D-C1D | 6.13 | 135.51 | 124.71 |
| 12 | bA | 812 | CLA | CMD-C2D-C1D | 6.13 | 135.51 | 124.71 |
| 12 | cB | 924 | CLA | CHD-C1D-ND | -6.13 | 118.82 | 124.45 |
| 12 | aA | 839 | CLA | CHD-C4C-C3C | -6.13 | 115.83 | 124.84 |
| 12 | bA | 839 | CLA | CHD-C4C-C3C | -6.13 | 115.84 | 124.84 |
| 12 | bB | 939 | CLA | CHD-C4C-C3C | -6.13 | 115.84 | 124.84 |
| 12 | bA | 841 | CLA | CMD-C2D-C1D | 6.12 | 135.50 | 124.71 |
| 12 | cA | 836 | CLA | C2C-C1C-NC | 6.12 | 115.71 | 109.97 |
| 12 | aA | 834 | CLA | CMD-C2D-C1D | 6.12 | 135.50 | 124.71 |
| 12 | bA | 807 | CLA | CHD-C4C-C3C | -6.12 | 115.85 | 124.84 |
| 12 | aA | 826 | CLA | CHD-C1D-ND | -6.12 | 118.83 | 124.45 |
| 12 | cA | 841 | CLA | CMD-C2D-C1D | 6.12 | 135.50 | 124.71 |
| 12 | aB | 939 | CLA | CHD-C4C-C3C | -6.12 | 115.85 | 124.84 |
| 12 | bA | 836 | CLA | C2C-C1C-NC | 6.12 | 115.70 | 109.97 |
| 12 | bA | 826 | CLA | CHD-C1D-ND | -6.11 | 118.83 | 124.45 |
| 12 | bB | 907 | CLA | O2D-CGD-CBD | 6.11 | 122.13 | 111.27 |
| 12 | aB | 916 | CLA | CHD-C4C-C3C | -6.11 | 115.86 | 124.84 |
| 12 | cB | 939 | CLA | CHD-C4C-C3C | -6.11 | 115.86 | 124.84 |
| 12 | cA | 842 | CLA | CHD-C4C-C3C | -6.11 | 115.86 | 124.84 |
| 12 | cA | 814 | CLA | CMD-C2D-C1D | 6.11 | 135.48 | 124.71 |
| 12 | cA | 826 | CLA | CHD-C1D-ND | -6.10 | 118.84 | 124.45 |
| 12 | bA | 817 | CLA | CHD-C4C-C3C | -6.10 | 115.87 | 124.84 |
| 12 | cA | 807 | CLA | CHD-C4C-C3C | -6.10 | 115.87 | 124.84 |
| 12 | bA | 827 | CLA | CMD-C2D-C1D | 6.10 | 135.47 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 814 | CLA | CMD-C2D-C1D | 6.10 | 135.46 | 124.71 |
| 12 | cB | 949 | CLA | CHD-C4C-C3C | -6.10 | 115.88 | 124.84 |
| 12 | bA | 814 | CLA | CMD-C2D-C1D | 6.09 | 135.45 | 124.71 |
| 12 | bB | 949 | CLA | CHD-C4C-C3C | -6.09 | 115.89 | 124.84 |
| 12 | cB | 903 | CLA | O2D-CGD-CBD | 6.09 | 122.09 | 111.27 |
| 12 | aB | 928 | CLA | C2C-C1C-NC | 6.09 | 115.68 | 109.97 |
| 12 | bB | 928 | CLA | C2C-C1C-NC | 6.09 | 115.68 | 109.97 |
| 12 | aB | 934 | CLA | CHD-C1D-ND | -6.09 | 118.86 | 124.45 |
| 12 | aB | 916 | CLA | CHD-C1D-ND | -6.08 | 118.86 | 124.45 |
| 12 | bB | 903 | CLA | O2D-CGD-CBD | 6.08 | 122.08 | 111.27 |
| 12 | aA | 842 | CLA | CHD-C4C-C3C | -6.08 | 115.90 | 124.84 |
| 12 | bB | 917 | CLA | CMD-C2D-C1D | 6.08 | 135.43 | 124.71 |
| 12 | cB | 917 | CLA | CMD-C2D-C1D | 6.08 | 135.43 | 124.71 |
| 12 | bB | 916 | CLA | CHD-C1D-ND | -6.08 | 118.87 | 124.45 |
| 12 | aA | 823 | CLA | CHD-C4C-C3C | -6.08 | 115.90 | 124.84 |
| 12 | aB | 903 | CLA | O2D-CGD-CBD | 6.08 | 122.07 | 111.27 |
| 12 | bA | 825 | CLA | CHD-C4C-C3C | -6.08 | 115.91 | 124.84 |
| 12 | cA | 832 | CLA | CMD-C2D-C1D | 6.08 | 135.42 | 124.71 |
| 12 | cB | 923 | CLA | CMD-C2D-C1D | 6.07 | 135.42 | 124.71 |
| 12 | aA | 832 | CLA | CMD-C2D-C1D | 6.07 | 135.41 | 124.71 |
| 12 | cA | 823 | CLA | CHD-C4C-C3C | -6.07 | 115.92 | 124.84 |
| 12 | bB | 904 | CLA | CHD-C1D-ND | -6.07 | 118.88 | 124.45 |
| 12 | aB | 923 | CLA | CMD-C2D-C1D | 6.07 | 135.40 | 124.71 |
| 12 | bB | 924 | CLA | CHD-C1D-ND | -6.07 | 118.88 | 124.45 |
| 12 | bB | 920 | CLA | O2D-CGD-CBD | 6.06 | 122.04 | 111.27 |
| 12 | bB | 923 | CLA | CMD-C2D-C1D | 6.06 | 135.40 | 124.71 |
| 12 | aB | 924 | CLA | CHD-C1D-ND | -6.06 | 118.88 | 124.45 |
| 12 | bA | 842 | CLA | CHD-C4C-C3C | -6.06 | 115.93 | 124.84 |
| 12 | aB | 917 | CLA | CMD-C2D-C1D | 6.06 | 135.39 | 124.71 |
| 12 | cB | 928 | CLA | C2C-C1C-NC | 6.06 | 115.65 | 109.97 |
| 12 | bA | 832 | CLA | CMD-C2D-C1D | 6.06 | 135.38 | 124.71 |
| 12 | aA | 825 | CLA | CHD-C4C-C3C | -6.05 | 115.94 | 124.84 |
| 12 | bB | 934 | CLA | CHD-C1D-ND | -6.05 | 118.89 | 124.45 |
| 12 | aB | 920 | CLA | O2D-CGD-CBD | 6.05 | 122.02 | 111.27 |
| 12 | bA | 823 | CLA | CHD-C4C-C3C | -6.05 | 115.95 | 124.84 |
| 12 | cB | 916 | CLA | CHD-C1D-ND | -6.05 | 118.89 | 124.45 |
| 12 | aB | 904 | CLA | CHD-C1D-ND | -6.05 | 118.90 | 124.45 |
| 12 | bA | 831 | CLA | CHD-C4C-C3C | -6.05 | 115.95 | 124.84 |
| 12 | cA | 825 | CLA | CHD-C4C-C3C | -6.05 | 115.95 | 124.84 |
| 12 | aA | 831 | CLA | O2D-CGD-CBD | 6.05 | 122.01 | 111.27 |
| 12 | aA | 822 | CLA | O2D-CGD-CBD | 6.05 | 122.01 | 111.27 |
| 12 | cB | 901 | CLA | CMD-C2D-C1D | 6.05 | 135.37 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 920 | CLA | O2D-CGD-CBD | 6.04 | 122.01 | 111.27 |
| 12 | aA | 831 | CLA | CHD-C4C-C3C | -6.04 | 115.96 | 124.84 |
| 12 | bA | 831 | CLA | O2D-CGD-CBD | 6.04 | 122.00 | 111.27 |
| 12 | cA | 811 | CLA | CHD-C1D-ND | -6.04 | 118.91 | 124.45 |
| 12 | cA | 818 | CLA | CHD-C4C-C3C | -6.03 | 115.97 | 124.84 |
| 12 | cB | 916 | CLA | CMD-C2D-C1D | 6.03 | 135.34 | 124.71 |
| 12 | cA | 831 | CLA | O2D-CGD-CBD | 6.03 | 121.99 | 111.27 |
| 12 | aB | 901 | CLA | CMD-C2D-C1D | 6.03 | 135.34 | 124.71 |
| 12 | bB | 901 | CLA | CMD-C2D-C1D | 6.03 | 135.34 | 124.71 |
| 12 | cB | 904 | CLA | CHD-C1D-ND | -6.03 | 118.91 | 124.45 |
| 12 | aA | 818 | CLA | CHD-C4C-C3C | -6.02 | 115.99 | 124.84 |
| 12 | cA | 822 | CLA | O2D-CGD-CBD | 6.02 | 121.97 | 111.27 |
| 12 | cA | 819 | CLA | CMD-C2D-C1D | 6.02 | 135.32 | 124.71 |
| 12 | aB | 917 | CLA | C2C-C1C-NC | 6.02 | 115.61 | 109.97 |
| 12 | bB | 916 | CLA | CMD-C2D-C1D | 6.01 | 135.31 | 124.71 |
| 12 | aA | 811 | CLA | CHD-C1D-ND | -6.01 | 118.93 | 124.45 |
| 12 | bA | 811 | CLA | CHD-C1D-ND | -6.01 | 118.93 | 124.45 |
| 12 | bB | 917 | CLA | C2C-C1C-NC | 6.01 | 115.60 | 109.97 |
| 12 | bL | 202 | CLA | O2D-CGD-CBD | 6.01 | 121.95 | 111.27 |
| 12 | cB | 917 | CLA | CHD-C1D-ND | -6.01 | 118.93 | 124.45 |
| 12 | aA | 834 | CLA | CHD-C1D-ND | -6.01 | 118.93 | 124.45 |
| 12 | bB | 933 | CLA | CHD-C4C-C3C | -6.01 | 116.01 | 124.84 |
| 12 | cA | 831 | CLA | CHD-C4C-C3C | -6.01 | 116.01 | 124.84 |
| 12 | aB | 916 | CLA | CMD-C2D-C1D | 6.01 | 135.30 | 124.71 |
| 12 | bA | 819 | CLA | CMD-C2D-C1D | 6.01 | 135.30 | 124.71 |
| 12 | cA | 834 | CLA | CHD-C1D-ND | -6.01 | 118.94 | 124.45 |
| 12 | cB | 934 | CLA | CHD-C1D-ND | -6.00 | 118.94 | 124.45 |
| 12 | cA | 810 | CLA | CAA-C2A-C3A | -6.00 | 96.34 | 112.78 |
| 12 | bA | 834 | CLA | CHD-C1D-ND | -6.00 | 118.94 | 124.45 |
| 12 | cA | 839 | CLA | CMD-C2D-C1D | 6.00 | 135.29 | 124.71 |
| 12 | cA | 840 | CLA | CMD-C2D-C1D | 6.00 | 135.29 | 124.71 |
| 12 | aA | 839 | CLA | CMD-C2D-C1D | 6.00 | 135.29 | 124.71 |
| 12 | aA | 840 | CLA | CMD-C2D-C1D | 6.00 | 135.29 | 124.71 |
| 12 | bA | 810 | CLA | CAA-C2A-C3A | -6.00 | 96.35 | 112.78 |
| 12 | aA | 810 | CLA | CAA-C2A-C3A | -6.00 | 96.35 | 112.78 |
| 12 | bB | 910 | CLA | CHD-C1D-ND | -6.00 | 118.94 | 124.45 |
| 12 | aA | 819 | CLA | CMD-C2D-C1D | 6.00 | 135.28 | 124.71 |
| 12 | cL | 202 | CLA | O2D-CGD-CBD | 6.00 | 121.92 | 111.27 |
| 12 | bA | 840 | CLA | CMD-C2D-C1D | 6.00 | 135.28 | 124.71 |
| 12 | bA | 822 | CLA | O2D-CGD-CBD | 5.99 | 121.92 | 111.27 |
| 12 | cB | 917 | CLA | C2C-C1C-NC | 5.99 | 115.58 | 109.97 |
| 12 | aB | 917 | CLA | CHD-C1D-ND | -5.99 | 118.95 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 818 | CLA | CHD-C4C-C3C | -5.99 | 116.04 | 124.84 |
| 12 | cB | 933 | CLA | CHD-C4C-C3C | -5.99 | 116.04 | 124.84 |
| 12 | bA | 839 | CLA | CMD-C2D-C1D | 5.99 | 135.26 | 124.71 |
| 12 | bB | 913 | CLA | O2D-CGD-CBD | 5.98 | 121.90 | 111.27 |
| 12 | bB | 903 | CLA | CHD-C4C-C3C | -5.98 | 116.04 | 124.84 |
| 12 | cB | 907 | CLA | C2C-C1C-NC | 5.98 | 115.58 | 109.97 |
| 12 | cB | 904 | CLA | CMD-C2D-C1D | 5.98 | 135.26 | 124.71 |
| 12 | aB | 921 | CLA | C4A-NA-C1A | -5.98 | 104.02 | 106.71 |
| 12 | aB | 933 | CLA | CHD-C4C-C3C | -5.98 | 116.05 | 124.84 |
| 12 | aL | 202 | CLA | O2D-CGD-CBD | 5.98 | 121.89 | 111.27 |
| 12 | cB | 913 | CLA | O2D-CGD-CBD | 5.98 | 121.89 | 111.27 |
| 12 | aB | 910 | CLA | CHD-C1D-ND | -5.98 | 118.96 | 124.45 |
| 12 | bB | 904 | CLA | CMD-C2D-C1D | 5.97 | 135.24 | 124.71 |
| 12 | cB | 903 | CLA | CHD-C4C-C3C | -5.97 | 116.06 | 124.84 |
| 12 | aB | 904 | CLA | CMD-C2D-C1D | 5.97 | 135.24 | 124.71 |
| 12 | cA | 839 | CLA | C2C-C1C-NC | 5.97 | 115.56 | 109.97 |
| 12 | bA | 843 | CLA | C2C-C1C-NC | 5.97 | 115.56 | 109.97 |
| 12 | aB | 903 | CLA | CHD-C4C-C3C | -5.97 | 116.07 | 124.84 |
| 12 | aB | 913 | CLA | O2D-CGD-CBD | 5.97 | 121.87 | 111.27 |
| 12 | aB | 907 | CLA | C2C-C1C-NC | 5.96 | 115.56 | 109.97 |
| 12 | bB | 907 | CLA | C2C-C1C-NC | 5.96 | 115.56 | 109.97 |
| 12 | bB | 928 | CLA | C2D-C1D-ND | 5.96 | 114.50 | 110.10 |
| 12 | aA | 839 | CLA | C2C-C1C-NC | 5.96 | 115.56 | 109.97 |
| 12 | cA | 838 | CLA | CHD-C1D-ND | -5.96 | 118.98 | 124.45 |
| 12 | bB | 922 | CLA | CHD-C4C-C3C | -5.95 | 116.09 | 124.84 |
| 12 | cB | 921 | CLA | CHD-C1D-ND | -5.95 | 118.99 | 124.45 |
| 12 | cB | 928 | CLA | C2D-C1D-ND | 5.95 | 114.49 | 110.10 |
| 12 | aA | 824 | CLA | CMD-C2D-C1D | 5.95 | 135.20 | 124.71 |
| 12 | bA | 824 | CLA | CMD-C2D-C1D | 5.95 | 135.20 | 124.71 |
| 12 | bB | 920 | CLA | CHD-C4C-C3C | -5.95 | 116.10 | 124.84 |
| 12 | bB | 917 | CLA | CHD-C1D-ND | -5.95 | 118.99 | 124.45 |
| 12 | cB | 910 | CLA | CHD-C1D-ND | -5.94 | 118.99 | 124.45 |
| 12 | aB | 928 | CLA | C2D-C1D-ND | 5.94 | 114.48 | 110.10 |
| 12 | aA | 827 | CLA | O2D-CGD-CBD | 5.94 | 121.82 | 111.27 |
| 12 | cB | 922 | CLA | CHD-C4C-C3C | -5.94 | 116.11 | 124.84 |
| 12 | aA | 838 | CLA | CHD-C1D-ND | -5.94 | 119.00 | 124.45 |
| 12 | cA | 843 | CLA | C2C-C1C-NC | 5.93 | 115.53 | 109.97 |
| 12 | aB | 920 | CLA | CHD-C4C-C3C | -5.93 | 116.12 | 124.84 |
| 12 | aA | 808 | CLA | CHD-C1D-ND | -5.93 | 119.00 | 124.45 |
| 12 | bA | 838 | CLA | CHD-C1D-ND | -5.93 | 119.00 | 124.45 |
| 12 | aB | 910 | CLA | CMD-C2D-C1D | 5.93 | 135.16 | 124.71 |
| 12 | cA | 808 | CLA | CHD-C1D-ND | -5.93 | 119.00 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 930 | CLA | CMD-C2D-C1D | 5.92 | 135.16 | 124.71 |
| 12 | cA | 824 | CLA | CMD-C2D-C1D | 5.92 | 135.15 | 124.71 |
| 12 | cA | 827 | CLA | O2D-CGD-CBD | 5.92 | 121.80 | 111.27 |
| 12 | aB | 922 | CLA | CHD-C4C-C3C | -5.92 | 116.13 | 124.84 |
| 12 | bB | 910 | CLA | CMD-C2D-C1D | 5.92 | 135.15 | 124.71 |
| 12 | cB | 930 | CLA | CMD-C2D-C1D | 5.92 | 135.15 | 124.71 |
| 12 | aA | 843 | CLA | C2C-C1C-NC | 5.92 | 115.52 | 109.97 |
| 12 | cB | 911 | CLA | CMD-C2D-C1D | 5.92 | 135.14 | 124.71 |
| 12 | bB | 911 | CLA | CMD-C2D-C1D | 5.92 | 135.14 | 124.71 |
| 12 | aA | 805 | CLA | CHD-C4C-C3C | -5.92 | 116.14 | 124.84 |
| 12 | bB | 930 | CLA | CMD-C2D-C1D | 5.91 | 135.13 | 124.71 |
| 12 | aB | 911 | CLA | CMD-C2D-C1D | 5.91 | 135.13 | 124.71 |
| 12 | cB | 910 | CLA | CMD-C2D-C1D | 5.91 | 135.13 | 124.71 |
| 12 | cB | 920 | CLA | CHD-C4C-C3C | -5.91 | 116.15 | 124.84 |
| 12 | cA | 817 | CLA | CHD-C1D-ND | -5.91 | 119.02 | 124.45 |
| 12 | bB | 928 | CLA | O2D-CGD-CBD | 5.91 | 121.77 | 111.27 |
| 12 | cA | 836 | CLA | CMD-C2D-C1D | 5.90 | 135.12 | 124.71 |
| 12 | cA | 805 | CLA | CHD-C4C-C3C | -5.90 | 116.17 | 124.84 |
| 12 | bB | 921 | CLA | C4A-NA-C1A | -5.90 | 104.05 | 106.71 |
| 12 | bA | 839 | CLA | C2C-C1C-NC | 5.90 | 115.50 | 109.97 |
| 12 | bB | 921 | CLA | CHD-C1D-ND | -5.90 | 119.03 | 124.45 |
| 12 | bA | 827 | CLA | O2D-CGD-CBD | 5.90 | 121.75 | 111.27 |
| 12 | aA | 836 | CLA | CMD-C2D-C1D | 5.90 | 135.11 | 124.71 |
| 12 | aB | 921 | CLA | CHD-C1D-ND | -5.90 | 119.03 | 124.45 |
| 12 | bA | 805 | CLA | CHD-C4C-C3C | -5.89 | 116.18 | 124.84 |
| 12 | bA | 836 | CLA | CMD-C2D-C1D | 5.89 | 135.09 | 124.71 |
| 12 | bA | 808 | CLA | CHD-C1D-ND | -5.89 | 119.05 | 124.45 |
| 12 | aA | 825 | CLA | CMD-C2D-C1D | 5.88 | 135.08 | 124.71 |
| 12 | bA | 817 | CLA | CHD-C1D-ND | -5.88 | 119.05 | 124.45 |
| 12 | bA | 825 | CLA | CMD-C2D-C1D | 5.88 | 135.07 | 124.71 |
| 12 | aA | 833 | CLA | CHD-C1D-ND | -5.88 | 119.05 | 124.45 |
| 12 | aB | 928 | CLA | O2D-CGD-CBD | 5.87 | 121.70 | 111.27 |
| 12 | cB | 928 | CLA | O2D-CGD-CBD | 5.87 | 121.70 | 111.27 |
| 12 | cA | 826 | CLA | O2D-CGD-CBD | 5.87 | 121.70 | 111.27 |
| 12 | bB | 927 | CLA | C2C-C1C-NC | 5.86 | 115.47 | 109.97 |
| 12 | cB | 921 | CLA | C4A-NA-C1A | -5.86 | 104.07 | 106.71 |
| 12 | cA | 833 | CLA | CHD-C1D-ND | -5.86 | 119.07 | 124.45 |
| 12 | bA | 817 | CLA | O2D-CGD-CBD | 5.86 | 121.68 | 111.27 |
| 12 | aA | 834 | CLA | C2C-C1C-NC | 5.86 | 115.46 | 109.97 |
| 12 | cA | 825 | CLA | CMD-C2D-C1D | 5.86 | 135.04 | 124.71 |
| 12 | bA | 826 | CLA | O2D-CGD-CBD | 5.86 | 121.68 | 111.27 |
| 12 | cA | 834 | CLA | C2C-C1C-NC | 5.85 | 115.45 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 834 | CLA | C2C-C1C-NC | 5.85 | 115.45 | 109.97 |
| 12 | aA | 817 | CLA | O2D-CGD-CBD | 5.85 | 121.66 | 111.27 |
| 12 | aA | 826 | CLA | O2D-CGD-CBD | 5.85 | 121.66 | 111.27 |
| 12 | cA | 817 | CLA | O2D-CGD-CBD | 5.84 | 121.65 | 111.27 |
| 12 | aB | 927 | CLA | C2C-C1C-NC | 5.83 | 115.44 | 109.97 |
| 12 | aA | 812 | CLA | C2C-C1C-NC | 5.83 | 115.43 | 109.97 |
| 12 | cA | 810 | CLA | CHD-C1D-ND | -5.83 | 119.10 | 124.45 |
| 12 | aA | 817 | CLA | CHD-C1D-ND | -5.82 | 119.10 | 124.45 |
| 12 | bB | 915 | CLA | C2C-C1C-NC | 5.82 | 115.43 | 109.97 |
| 12 | aA | 842 | CLA | C2C-C1C-NC | 5.82 | 115.43 | 109.97 |
| 12 | bA | 842 | CLA | C2C-C1C-NC | 5.82 | 115.42 | 109.97 |
| 12 | cB | 912 | CLA | CHD-C4C-C3C | -5.81 | 116.29 | 124.84 |
| 12 | cA | 842 | CLA | C2C-C1C-NC | 5.81 | 115.42 | 109.97 |
| 12 | aA | 826 | CLA | CMD-C2D-C1D | 5.81 | 134.96 | 124.71 |
| 12 | bA | 826 | CLA | CMD-C2D-C1D | 5.81 | 134.96 | 124.71 |
| 12 | aA | 822 | CLA | CHD-C4C-C3C | -5.81 | 116.30 | 124.84 |
| 12 | cB | 927 | CLA | C2C-C1C-NC | 5.81 | 115.42 | 109.97 |
| 12 | cA | 826 | CLA | CMD-C2D-C1D | 5.81 | 134.95 | 124.71 |
| 12 | cA | 822 | CLA | CHD-C4C-C3C | -5.81 | 116.30 | 124.84 |
| 12 | aA | 810 | CLA | CHD-C1D-ND | -5.81 | 119.12 | 124.45 |
| 12 | bB | 909 | CLA | CMD-C2D-C1D | 5.81 | 134.95 | 124.71 |
| 12 | bA | 853 | CLA | CHD-C4C-C3C | -5.81 | 116.31 | 124.84 |
| 12 | aA | 816 | CLA | CHD-C4C-C3C | -5.80 | 116.31 | 124.84 |
| 12 | bA | 816 | CLA | CHD-C4C-C3C | -5.80 | 116.31 | 124.84 |
| 12 | aB | 912 | CLA | CHD-C4C-C3C | -5.80 | 116.31 | 124.84 |
| 12 | aA | 804 | CLA | CHD-C4C-C3C | -5.80 | 116.31 | 124.84 |
| 12 | bF | 202 | CLA | O2D-CGD-CBD | 5.80 | 121.57 | 111.27 |
| 12 | bA | 822 | CLA | CHD-C4C-C3C | -5.80 | 116.32 | 124.84 |
| 12 | cB | 915 | CLA | C2C-C1C-NC | 5.80 | 115.40 | 109.97 |
| 12 | aF | 202 | CLA | O2D-CGD-CBD | 5.79 | 121.56 | 111.27 |
| 12 | aA | 854 | CLA | CHD-C4C-C3C | -5.79 | 116.33 | 124.84 |
| 12 | cB | 909 | CLA | CMD-C2D-C1D | 5.79 | 134.92 | 124.71 |
| 12 | cF | 202 | CLA | O2D-CGD-CBD | 5.79 | 121.56 | 111.27 |
| 12 | bB | 912 | CLA | CHD-C4C-C3C | -5.79 | 116.33 | 124.84 |
| 12 | cA | 816 | CLA | CHD-C4C-C3C | -5.79 | 116.33 | 124.84 |
| 12 | bB | 918 | CLA | CMD-C2D-C1D | 5.78 | 134.91 | 124.71 |
| 12 | aA | 831 | CLA | CMD-C2D-C1D | 5.78 | 134.91 | 124.71 |
| 12 | aB | 909 | CLA | CMD-C2D-C1D | 5.78 | 134.91 | 124.71 |
| 12 | cB | 918 | CLA | CMD-C2D-C1D | 5.78 | 134.90 | 124.71 |
| 12 | cB | 907 | CLA | CHD-C4C-C3C | -5.78 | 116.34 | 124.84 |
| 12 | aB | 915 | CLA | C2C-C1C-NC | 5.78 | 115.39 | 109.97 |
| 12 | bA | 812 | CLA | C2C-C1C-NC | 5.77 | 115.38 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 853 | CLA | CHD-C4C-C3C | -5.77 | 116.36 | 124.84 |
| 12 | cA | 804 | CLA | CHD-C4C-C3C | -5.77 | 116.36 | 124.84 |
| 12 | cL | 203 | CLA | O2D-CGD-CBD | 5.77 | 121.52 | 111.27 |
| 12 | cA | 831 | CLA | CMD-C2D-C1D | 5.77 | 134.88 | 124.71 |
| 12 | bA | 833 | CLA | CHD-C1D-ND | -5.77 | 119.15 | 124.45 |
| 12 | aB | 937 | CLA | O2D-CGD-CBD | 5.77 | 121.52 | 111.27 |
| 12 | aB | 918 | CLA | CMD-C2D-C1D | 5.77 | 134.88 | 124.71 |
| 12 | cA | 812 | CLA | C2C-C1C-NC | 5.77 | 115.38 | 109.97 |
| 12 | bA | 810 | CLA | CHD-C1D-ND | -5.77 | 119.15 | 124.45 |
| 12 | cB | 937 | CLA | O2D-CGD-CBD | 5.76 | 121.51 | 111.27 |
| 12 | aB | 913 | CLA | CHD-C4C-C3C | -5.76 | 116.37 | 124.84 |
| 12 | bA | 825 | CLA | CHD-C1D-ND | -5.76 | 119.16 | 124.45 |
| 12 | cB | 913 | CLA | CHD-C4C-C3C | -5.76 | 116.37 | 124.84 |
| 12 | bA | 804 | CLA | CHD-C4C-C3C | -5.76 | 116.37 | 124.84 |
| 12 | aL | 203 | CLA | O2D-CGD-CBD | 5.76 | 121.50 | 111.27 |
| 12 | bA | 831 | CLA | CMD-C2D-C1D | 5.76 | 134.86 | 124.71 |
| 12 | aA | 838 | CLA | CHD-C4C-C3C | -5.76 | 116.38 | 124.84 |
| 12 | bA | 838 | CLA | CHD-C4C-C3C | -5.76 | 116.38 | 124.84 |
| 12 | cA | 838 | CLA | CHD-C4C-C3C | -5.76 | 116.38 | 124.84 |
| 12 | bA | 809 | CLA | O2D-CGD-CBD | 5.76 | 121.50 | 111.27 |
| 12 | bA | 820 | CLA | O2D-CGD-CBD | 5.76 | 121.50 | 111.27 |
| 12 | bA | 806 | CLA | O2D-CGD-CBD | 5.76 | 121.50 | 111.27 |
| 12 | cA | 832 | CLA | CHD-C1D-ND | -5.75 | 119.17 | 124.45 |
| 12 | aA | 809 | CLA | O2D-CGD-CBD | 5.75 | 121.49 | 111.27 |
| 12 | aA | 820 | CLA | O2D-CGD-CBD | 5.75 | 121.49 | 111.27 |
| 12 | aA | 832 | CLA | CHD-C1D-ND | -5.75 | 119.17 | 124.45 |
| 12 | bA | 832 | CLA | CHD-C1D-ND | -5.75 | 119.17 | 124.45 |
| 12 | bL | 203 | CLA | O2D-CGD-CBD | 5.75 | 121.48 | 111.27 |
| 12 | cB | 906 | CLA | CHD-C4C-C3C | -5.75 | 116.39 | 124.84 |
| 12 | aB | 921 | CLA | C2C-C1C-NC | 5.75 | 115.36 | 109.97 |
| 12 | cA | 806 | CLA | O2D-CGD-CBD | 5.75 | 121.48 | 111.27 |
| 12 | cA | 805 | CLA | CHD-C1D-ND | -5.75 | 119.17 | 124.45 |
| 12 | bB | 907 | CLA | CHD-C4C-C3C | -5.75 | 116.39 | 124.84 |
| 12 | aA | 806 | CLA | O2D-CGD-CBD | 5.74 | 121.47 | 111.27 |
| 12 | bA | 805 | CLA | CHD-C1D-ND | -5.74 | 119.18 | 124.45 |
| 12 | bB | 913 | CLA | CHD-C4C-C3C | -5.74 | 116.40 | 124.84 |
| 12 | bB | 937 | CLA | O2D-CGD-CBD | 5.74 | 121.47 | 111.27 |
| 12 | bA | 805 | CLA | CMD-C2D-C1D | 5.74 | 134.83 | 124.71 |
| 12 | bA | 808 | CLA | C2C-C1C-NC | 5.74 | 115.35 | 109.97 |
| 12 | bB | 906 | CLA | CHD-C4C-C3C | -5.73 | 116.41 | 124.84 |
| 12 | cA | 808 | CLA | C2C-C1C-NC | 5.73 | 115.34 | 109.97 |
| 12 | aA | 808 | CLA | C2C-C1C-NC | 5.73 | 115.34 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 809 | CLA | CHD-C4C-C3C | -5.73 | 116.41 | 124.84 |
| 12 | aA | 805 | CLA | CHD-C1D-ND | -5.73 | 119.19 | 124.45 |
| 12 | cA | 825 | CLA | CHD-C1D-ND | -5.73 | 119.19 | 124.45 |
| 12 | aB | 907 | CLA | CHD-C4C-C3C | -5.73 | 116.42 | 124.84 |
| 12 | bB | 914 | CLA | CMD-C2D-C1D | 5.73 | 134.81 | 124.71 |
| 12 | aA | 825 | CLA | CHD-C1D-ND | -5.73 | 119.19 | 124.45 |
| 12 | cA | 812 | CLA | CHD-C1D-ND | -5.73 | 119.19 | 124.45 |
| 12 | aA | 805 | CLA | CMD-C2D-C1D | 5.73 | 134.81 | 124.71 |
| 12 | cA | 820 | CLA | O2D-CGD-CBD | 5.73 | 121.44 | 111.27 |
| 12 | cB | 914 | CLA | CMD-C2D-C1D | 5.73 | 134.81 | 124.71 |
| 12 | bB | 921 | CLA | C2C-C1C-NC | 5.72 | 115.33 | 109.97 |
| 12 | cA | 809 | CLA | O2D-CGD-CBD | 5.72 | 121.44 | 111.27 |
| 12 | bL | 204 | CLA | O2D-CGD-CBD | 5.72 | 121.44 | 111.27 |
| 12 | aA | 830 | CLA | C2C-C1C-NC | 5.72 | 115.33 | 109.97 |
| 12 | cB | 910 | CLA | C2C-C1C-NC | 5.72 | 115.33 | 109.97 |
| 12 | cB | 913 | CLA | CMD-C2D-C1D | 5.72 | 134.80 | 124.71 |
| 12 | cA | 813 | CLA | CHD-C4C-C3C | -5.72 | 116.43 | 124.84 |
| 12 | aA | 813 | CLA | CHD-C4C-C3C | -5.72 | 116.43 | 124.84 |
| 12 | bA | 802 | CLA | O2D-CGD-CBD | 5.72 | 121.42 | 111.27 |
| 12 | cA | 830 | CLA | C2C-C1C-NC | 5.71 | 115.32 | 109.97 |
| 12 | bB | 913 | CLA | CMD-C2D-C1D | 5.71 | 134.78 | 124.71 |
| 12 | aL | 204 | CLA | O2D-CGD-CBD | 5.71 | 121.42 | 111.27 |
| 12 | aB | 913 | CLA | CMD-C2D-C1D | 5.71 | 134.78 | 124.71 |
| 12 | bA | 830 | CLA | C2C-C1C-NC | 5.71 | 115.32 | 109.97 |
| 12 | aA | 835 | CLA | CHD-C4C-C3C | -5.71 | 116.45 | 124.84 |
| 12 | bA | 835 | CLA | CHD-C4C-C3C | -5.71 | 116.45 | 124.84 |
| 12 | aA | 844 | CLA | C2C-C1C-NC | 5.71 | 115.32 | 109.97 |
| 12 | bB | 910 | CLA | C2C-C1C-NC | 5.71 | 115.32 | 109.97 |
| 12 | bA | 813 | CLA | CHD-C4C-C3C | -5.71 | 116.45 | 124.84 |
| 12 | aB | 950 | CLA | C2C-C1C-NC | 5.70 | 115.32 | 109.97 |
| 12 | cA | 805 | CLA | CMD-C2D-C1D | 5.70 | 134.76 | 124.71 |
| 12 | aB | 909 | CLA | CHD-C4C-C3C | -5.70 | 116.46 | 124.84 |
| 12 | bB | 911 | CLA | C2C-C1C-NC | 5.70 | 115.31 | 109.97 |
| 12 | aA | 809 | CLA | CHD-C4C-C3C | -5.70 | 116.46 | 124.84 |
| 12 | cB | 935 | CLA | O2D-CGD-CBD | 5.70 | 121.40 | 111.27 |
| 12 | aB | 906 | CLA | CHD-C4C-C3C | -5.70 | 116.46 | 124.84 |
| 12 | aB | 914 | CLA | CMD-C2D-C1D | 5.70 | 134.75 | 124.71 |
| 12 | cB | 921 | CLA | C2C-C1C-NC | 5.70 | 115.31 | 109.97 |
| 12 | bB | 935 | CLA | O2D-CGD-CBD | 5.70 | 121.39 | 111.27 |
| 12 | bA | 809 | CLA | CHD-C4C-C3C | -5.69 | 116.47 | 124.84 |
| 12 | cA | 810 | CLA | CMD-C2D-C1D | 5.69 | 134.75 | 124.71 |
| 12 | aA | 802 | CLA | O2D-CGD-CBD | 5.69 | 121.38 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 935 | CLA | O2D-CGD-CBD | 5.69 | 121.38 | 111.27 |
| 12 | cB | 918 | CLA | CHD-C1D-ND | -5.69 | 119.22 | 124.45 |
| 12 | cA | 802 | CLA | O2D-CGD-CBD | 5.68 | 121.36 | 111.27 |
| 12 | bA | 810 | CLA | CMD-C2D-C1D | 5.68 | 134.72 | 124.71 |
| 12 | bB | 950 | CLA | C2C-C1C-NC | 5.68 | 115.29 | 109.97 |
| 12 | cA | 835 | CLA | CHD-C4C-C3C | -5.68 | 116.49 | 124.84 |
| 12 | aB | 918 | CLA | CHD-C1D-ND | -5.68 | 119.24 | 124.45 |
| 12 | aA | 812 | CLA | CHD-C1D-ND | -5.68 | 119.24 | 124.45 |
| 12 | aA | 810 | CLA | CHD-C4C-C3C | -5.68 | 116.50 | 124.84 |
| 12 | bB | 909 | CLA | CHD-C4C-C3C | -5.68 | 116.50 | 124.84 |
| 12 | aA | 810 | CLA | CMD-C2D-C1D | 5.68 | 134.72 | 124.71 |
| 12 | cL | 204 | CLA | O2D-CGD-CBD | 5.67 | 121.35 | 111.27 |
| 12 | cB | 909 | CLA | CHD-C4C-C3C | -5.67 | 116.50 | 124.84 |
| 12 | bA | 839 | CLA | O2D-CGD-CBD | 5.67 | 121.33 | 111.27 |
| 12 | aA | 842 | CLA | CHD-C1D-ND | -5.66 | 119.25 | 124.45 |
| 12 | bA | 823 | CLA | CHD-C1D-ND | -5.66 | 119.25 | 124.45 |
| 12 | bA | 815 | CLA | CHD-C1D-ND | -5.66 | 119.25 | 124.45 |
| 12 | bA | 812 | CLA | CHD-C1D-ND | -5.66 | 119.25 | 124.45 |
| 12 | bA | 840 | CLA | CHD-C1D-ND | -5.66 | 119.25 | 124.45 |
| 12 | aB | 911 | CLA | C2C-C1C-NC | 5.66 | 115.27 | 109.97 |
| 12 | bA | 810 | CLA | CHD-C4C-C3C | -5.66 | 116.52 | 124.84 |
| 12 | bA | 820 | CLA | CHD-C4C-C3C | -5.66 | 116.53 | 124.84 |
| 12 | cA | 814 | CLA | CHD-C4C-C3C | -5.66 | 116.53 | 124.84 |
| 12 | aA | 814 | CLA | CHD-C4C-C3C | -5.65 | 116.53 | 124.84 |
| 12 | bB | 914 | CLA | CHD-C1D-ND | -5.65 | 119.26 | 124.45 |
| 12 | cA | 821 | CLA | CHD-C4C-C3C | -5.65 | 116.54 | 124.84 |
| 12 | bA | 819 | CLA | CHD-C4C-C3C | -5.65 | 116.54 | 124.84 |
| 12 | cA | 820 | CLA | CHD-C4C-C3C | -5.65 | 116.54 | 124.84 |
| 12 | aA | 819 | CLA | CHD-C4C-C3C | -5.65 | 116.54 | 124.84 |
| 12 | cA | 810 | CLA | CHD-C4C-C3C | -5.65 | 116.54 | 124.84 |
| 12 | aA | 821 | CLA | CHD-C4C-C3C | -5.64 | 116.54 | 124.84 |
| 12 | aA | 854 | CLA | CHD-C1D-ND | -5.64 | 119.27 | 124.45 |
| 12 | aA | 820 | CLA | CHD-C4C-C3C | -5.64 | 116.55 | 124.84 |
| 12 | cA | 819 | CLA | CHD-C4C-C3C | -5.64 | 116.55 | 124.84 |
| 12 | aA | 839 | CLA | O2D-CGD-CBD | 5.64 | 121.29 | 111.27 |
| 12 | cA | 842 | CLA | CHD-C1D-ND | -5.64 | 119.27 | 124.45 |
| 12 | aB | 938 | CLA | CHD-C4C-C3C | -5.64 | 116.56 | 124.84 |
| 12 | bA | 828 | CLA | CMD-C2D-C1D | 5.64 | 134.65 | 124.71 |
| 12 | bB | 938 | CLA | CHD-C4C-C3C | -5.64 | 116.56 | 124.84 |
| 12 | bA | 811 | CLA | CHD-C4C-C3C | -5.64 | 116.56 | 124.84 |
| 12 | aA | 828 | CLA | CMD-C2D-C1D | 5.63 | 134.64 | 124.71 |
| 12 | bA | 814 | CLA | CHD-C4C-C3C | -5.63 | 116.56 | 124.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 828 | CLA | CMD-C2D-C1D | 5.63 | 134.64 | 124.71 |
| 12 | bA | 842 | CLA | CHD-C1D-ND | -5.63 | 119.28 | 124.45 |
| 12 | bB | 918 | CLA | CHD-C1D-ND | -5.63 | 119.28 | 124.45 |
| 12 | cA | 839 | CLA | O2D-CGD-CBD | 5.63 | 121.27 | 111.27 |
| 12 | cA | 815 | CLA | CHD-C1D-ND | -5.63 | 119.28 | 124.45 |
| 12 | bA | 821 | CLA | CHD-C4C-C3C | -5.63 | 116.57 | 124.84 |
| 12 | aB | 919 | CLA | CHD-C4C-C3C | -5.63 | 116.57 | 124.84 |
| 12 | aA | 815 | CLA | CHD-C1D-ND | -5.63 | 119.28 | 124.45 |
| 12 | aB | 914 | CLA | CHD-C1D-ND | -5.63 | 119.28 | 124.45 |
| 12 | aA | 823 | CLA | C2C-C1C-NC | 5.63 | 115.24 | 109.97 |
| 12 | bA | 853 | CLA | CHD-C1D-ND | -5.63 | 119.28 | 124.45 |
| 12 | cB | 911 | CLA | C2C-C1C-NC | 5.63 | 115.24 | 109.97 |
| 12 | cA | 823 | CLA | C2C-C1C-NC | 5.62 | 115.24 | 109.97 |
| 12 | cA | 811 | CLA | CHD-C4C-C3C | -5.62 | 116.58 | 124.84 |
| 12 | aB | 910 | CLA | C2C-C1C-NC | 5.62 | 115.24 | 109.97 |
| 12 | bA | 833 | CLA | C2C-C1C-NC | 5.62 | 115.24 | 109.97 |
| 12 | aB | 902 | CLA | CAC-C3C-C4C | 5.62 | 132.10 | 124.81 |
| 12 | bB | 919 | CLA | CHD-C4C-C3C | -5.62 | 116.58 | 124.84 |
| 12 | bB | 902 | CLA | CAC-C3C-C4C | 5.62 | 132.10 | 124.81 |
| 12 | aA | 840 | CLA | CHD-C1D-ND | -5.62 | 119.29 | 124.45 |
| 12 | aA | 811 | CLA | CHD-C4C-C3C | -5.62 | 116.58 | 124.84 |
| 12 | aB | 949 | CLA | O2D-CGD-CBD | 5.62 | 121.25 | 111.27 |
| 12 | cB | 938 | CLA | CHD-C4C-C3C | -5.62 | 116.59 | 124.84 |
| 12 | cA | 816 | CLA | O2D-CGD-CBD | 5.61 | 121.24 | 111.27 |
| 12 | aA | 829 | CLA | CHD-C4C-C3C | -5.61 | 116.59 | 124.84 |
| 12 | cA | 840 | CLA | CHD-C1D-ND | -5.61 | 119.30 | 124.45 |
| 12 | aA | 816 | CLA | O2D-CGD-CBD | 5.61 | 121.24 | 111.27 |
| 12 | bB | 949 | CLA | O2D-CGD-CBD | 5.61 | 121.24 | 111.27 |
| 12 | bA | 807 | CLA | CHD-C1D-ND | -5.61 | 119.30 | 124.45 |
| 12 | cB | 936 | CLA | O2D-CGD-CBD | 5.61 | 121.23 | 111.27 |
| 12 | cA | 807 | CLA | CHD-C1D-ND | -5.61 | 119.30 | 124.45 |
| 12 | cB | 914 | CLA | CHD-C1D-ND | -5.60 | 119.31 | 124.45 |
| 12 | aA | 809 | CLA | CHD-C1D-ND | -5.60 | 119.31 | 124.45 |
| 12 | cA | 829 | CLA | CHD-C4C-C3C | -5.60 | 116.61 | 124.84 |
| 12 | cB | 932 | CLA | CHD-C4C-C3C | -5.60 | 116.61 | 124.84 |
| 12 | cB | 902 | CLA | CAC-C3C-C4C | 5.60 | 132.07 | 124.81 |
| 12 | aB | 932 | CLA | CHD-C4C-C3C | -5.60 | 116.61 | 124.84 |
| 12 | bA | 833 | CLA | CHD-C4C-C3C | -5.60 | 116.61 | 124.84 |
| 12 | cB | 949 | CLA | O2D-CGD-CBD | 5.60 | 121.21 | 111.27 |
| 12 | bA | 829 | CLA | CHD-C4C-C3C | -5.60 | 116.61 | 124.84 |
| 12 | cL | 203 | CLA | CHD-C4C-C3C | -5.60 | 116.61 | 124.84 |
| 12 | bA | 816 | CLA | O2D-CGD-CBD | 5.60 | 121.21 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 930 | CLA | CHD-C4C-C3C | -5.59 | 116.62 | 124.84 |
| 12 | aB | 949 | CLA | CAA-C2A-C3A | -5.59 | 103.05 | 116.10 |
| 12 | aA | 833 | CLA | CHD-C4C-C3C | -5.59 | 116.62 | 124.84 |
| 12 | aA | 833 | CLA | C2C-C1C-NC | 5.59 | 115.21 | 109.97 |
| 12 | aL | 203 | CLA | CHD-C1D-ND | -5.59 | 119.31 | 124.45 |
| 12 | bA | 823 | CLA | C2C-C1C-NC | 5.59 | 115.21 | 109.97 |
| 12 | cB | 929 | CLA | C2C-C1C-NC | 5.59 | 115.21 | 109.97 |
| 12 | bA | 819 | CLA | CHD-C1D-ND | -5.59 | 119.32 | 124.45 |
| 12 | cA | 809 | CLA | CHD-C1D-ND | -5.59 | 119.32 | 124.45 |
| 12 | cB | 919 | CLA | CHD-C4C-C3C | -5.59 | 116.63 | 124.84 |
| 12 | aB | 904 | CLA | CHD-C4C-C3C | -5.59 | 116.63 | 124.84 |
| 12 | cA | 823 | CLA | CHD-C1D-ND | -5.59 | 119.32 | 124.45 |
| 12 | bB | 949 | CLA | CAA-C2A-C3A | -5.59 | 103.06 | 116.10 |
| 12 | cA | 853 | CLA | CHD-C1D-ND | -5.58 | 119.32 | 124.45 |
| 12 | cA | 819 | CLA | CHD-C1D-ND | -5.58 | 119.32 | 124.45 |
| 12 | aB | 936 | CLA | O2D-CGD-CBD | 5.58 | 121.19 | 111.27 |
| 12 | cA | 824 | CLA | CHD-C1D-ND | -5.58 | 119.32 | 124.45 |
| 12 | bL | 203 | CLA | CHD-C4C-C3C | -5.58 | 116.64 | 124.84 |
| 12 | aB | 929 | CLA | C2C-C1C-NC | 5.58 | 115.20 | 109.97 |
| 12 | bB | 930 | CLA | CHD-C4C-C3C | -5.58 | 116.64 | 124.84 |
| 12 | bB | 932 | CLA | CHD-C4C-C3C | -5.58 | 116.64 | 124.84 |
| 12 | cB | 904 | CLA | CHD-C4C-C3C | -5.58 | 116.64 | 124.84 |
| 12 | aA | 823 | CLA | CHD-C1D-ND | -5.58 | 119.33 | 124.45 |
| 12 | cA | 812 | CLA | O2D-CGD-CBD | 5.58 | 121.18 | 111.27 |
| 12 | cB | 949 | CLA | CAA-C2A-C3A | -5.57 | 103.09 | 116.10 |
| 12 | aA | 807 | CLA | C4A-NA-C1A | -5.57 | 104.20 | 106.71 |
| 12 | aB | 921 | CLA | CHD-C4C-C3C | -5.57 | 116.65 | 124.84 |
| 12 | bB | 921 | CLA | CHD-C4C-C3C | -5.57 | 116.65 | 124.84 |
| 12 | bA | 809 | CLA | CHD-C1D-ND | -5.57 | 119.33 | 124.45 |
| 12 | aA | 812 | CLA | O2D-CGD-CBD | 5.57 | 121.17 | 111.27 |
| 12 | aL | 203 | CLA | CHD-C4C-C3C | -5.57 | 116.66 | 124.84 |
| 12 | aA | 824 | CLA | CHD-C1D-ND | -5.57 | 119.34 | 124.45 |
| 12 | cA | 833 | CLA | CHD-C4C-C3C | -5.57 | 116.66 | 124.84 |
| 12 | aB | 930 | CLA | CHD-C4C-C3C | -5.57 | 116.66 | 124.84 |
| 12 | bA | 812 | CLA | O2D-CGD-CBD | 5.56 | 121.15 | 111.27 |
| 12 | bA | 824 | CLA | CHD-C1D-ND | -5.56 | 119.34 | 124.45 |
| 12 | bB | 936 | CLA | O2D-CGD-CBD | 5.56 | 121.14 | 111.27 |
| 12 | bB | 911 | CLA | CHD-C4C-C3C | -5.56 | 116.67 | 124.84 |
| 12 | cL | 203 | CLA | CHD-C1D-ND | -5.56 | 119.35 | 124.45 |
| 12 | aB | 911 | CLA | CHD-C4C-C3C | -5.56 | 116.67 | 124.84 |
| 12 | bB | 904 | CLA | CHD-C4C-C3C | -5.55 | 116.68 | 124.84 |
| 12 | bB | 938 | CLA | CHD-C1D-ND | -5.55 | 119.35 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 837 | CLA | C2C-C1C-NC | 5.55 | 115.17 | 109.97 |
| 12 | aA | 819 | CLA | CHD-C1D-ND | -5.55 | 119.36 | 124.45 |
| 12 | aA | 807 | CLA | CHD-C1D-ND | -5.55 | 119.36 | 124.45 |
| 12 | aA | 837 | CLA | C2C-C1C-NC | 5.54 | 115.17 | 109.97 |
| 12 | bA | 840 | CLA | C2C-C1C-NC | 5.54 | 115.17 | 109.97 |
| 12 | cA | 841 | CLA | CHD-C4C-C3C | -5.54 | 116.69 | 124.84 |
| 12 | bA | 807 | CLA | C4A-NA-C1A | -5.54 | 104.21 | 106.71 |
| 12 | aB | 931 | CLA | CHD-C4C-C3C | -5.54 | 116.70 | 124.84 |
| 12 | cA | 833 | CLA | C2C-C1C-NC | 5.54 | 115.16 | 109.97 |
| 12 | bA | 820 | CLA | CMD-C2D-C1D | 5.54 | 134.47 | 124.71 |
| 12 | aA | 841 | CLA | CHD-C4C-C3C | -5.54 | 116.70 | 124.84 |
| 12 | cB | 926 | CLA | O2D-CGD-CBD | 5.53 | 121.10 | 111.27 |
| 12 | bB | 926 | CLA | O2D-CGD-CBD | 5.53 | 121.10 | 111.27 |
| 12 | bB | 927 | CLA | CHD-C4C-C3C | -5.53 | 116.71 | 124.84 |
| 12 | aA | 820 | CLA | CMD-C2D-C1D | 5.53 | 134.46 | 124.71 |
| 12 | bB | 929 | CLA | C2C-C1C-NC | 5.53 | 115.16 | 109.97 |
| 12 | bA | 841 | CLA | CHD-C4C-C3C | -5.53 | 116.71 | 124.84 |
| 12 | bL | 203 | CLA | CHD-C1D-ND | -5.53 | 119.37 | 124.45 |
| 12 | cB | 938 | CLA | CHD-C1D-ND | -5.53 | 119.37 | 124.45 |
| 12 | aB | 927 | CLA | CHD-C4C-C3C | -5.53 | 116.71 | 124.84 |
| 12 | cB | 921 | CLA | CHD-C4C-C3C | -5.53 | 116.71 | 124.84 |
| 12 | aB | 936 | CLA | CHD-C4C-C3C | -5.52 | 116.72 | 124.84 |
| 12 | aB | 938 | CLA | CHD-C1D-ND | -5.52 | 119.38 | 124.45 |
| 12 | cB | 931 | CLA | O2D-CGD-CBD | 5.52 | 121.08 | 111.27 |
| 12 | bB | 936 | CLA | CHD-C4C-C3C | -5.52 | 116.72 | 124.84 |
| 12 | bB | 931 | CLA | CHD-C4C-C3C | -5.52 | 116.73 | 124.84 |
| 12 | cB | 911 | CLA | CHD-C4C-C3C | -5.52 | 116.73 | 124.84 |
| 12 | bA | 837 | CLA | C2C-C1C-NC | 5.52 | 115.14 | 109.97 |
| 12 | cB | 931 | CLA | CHD-C4C-C3C | -5.52 | 116.73 | 124.84 |
| 12 | cA | 820 | CLA | CMD-C2D-C1D | 5.52 | 134.43 | 124.71 |
| 12 | cB | 927 | CLA | CHD-C4C-C3C | -5.51 | 116.74 | 124.84 |
| 12 | bB | 931 | CLA | O2D-CGD-CBD | 5.51 | 121.06 | 111.27 |
| 12 | cB | 936 | CLA | CHD-C4C-C3C | -5.51 | 116.74 | 124.84 |
| 12 | aB | 926 | CLA | O2D-CGD-CBD | 5.51 | 121.05 | 111.27 |
| 12 | aB | 930 | CLA | C2C-C1C-NC | 5.50 | 115.13 | 109.97 |
| 12 | aB | 931 | CLA | O2D-CGD-CBD | 5.50 | 121.04 | 111.27 |
| 12 | cF | 202 | CLA | C2C-C1C-NC | 5.49 | 115.12 | 109.97 |
| 12 | cA | 826 | CLA | CHD-C4C-C3C | -5.49 | 116.77 | 124.84 |
| 12 | bB | 930 | CLA | C2C-C1C-NC | 5.49 | 115.11 | 109.97 |
| 12 | cA | 828 | CLA | CHD-C1D-ND | -5.49 | 119.41 | 124.45 |
| 12 | cA | 840 | CLA | C2C-C1C-NC | 5.49 | 115.11 | 109.97 |
| 12 | cB | 912 | CLA | CHD-C1D-ND | -5.49 | 119.41 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 823 | CLA | O2D-CGD-CBD | 5.48 | 121.01 | 111.27 |
| 12 | aA | 840 | CLA | C2C-C1C-NC | 5.48 | 115.11 | 109.97 |
| 12 | cA | 835 | CLA | C2C-C1C-NC | 5.48 | 115.11 | 109.97 |
| 12 | cA | 802 | CLA | CHD-C4C-C3C | -5.48 | 116.78 | 124.84 |
| 12 | bB | 930 | CLA | CHD-C1D-ND | -5.48 | 119.42 | 124.45 |
| 12 | cA | 807 | CLA | C4A-NA-C1A | -5.48 | 104.24 | 106.71 |
| 12 | aA | 829 | CLA | C2C-C1C-NC | 5.48 | 115.11 | 109.97 |
| 12 | aA | 841 | CLA | CHD-C1D-ND | -5.48 | 119.42 | 124.45 |
| 12 | bA | 818 | CLA | C2C-C1C-NC | 5.48 | 115.11 | 109.97 |
| 12 | bA | 841 | CLA | CHD-C1D-ND | -5.48 | 119.42 | 124.45 |
| 12 | cB | 917 | CLA | CHD-C4C-C3C | -5.48 | 116.79 | 124.84 |
| 12 | bA | 828 | CLA | CHD-C1D-ND | -5.48 | 119.42 | 124.45 |
| 12 | aA | 818 | CLA | CHD-C1D-ND | -5.47 | 119.43 | 124.45 |
| 12 | cB | 930 | CLA | C2C-C1C-NC | 5.47 | 115.10 | 109.97 |
| 12 | aB | 930 | CLA | CHD-C1D-ND | -5.47 | 119.43 | 124.45 |
| 12 | bA | 802 | CLA | CHD-C4C-C3C | -5.47 | 116.81 | 124.84 |
| 12 | aA | 826 | CLA | CHD-C4C-C3C | -5.46 | 116.81 | 124.84 |
| 12 | cA | 811 | CLA | C2C-C1C-NC | 5.46 | 115.09 | 109.97 |
| 12 | aB | 917 | CLA | CHD-C4C-C3C | -5.46 | 116.81 | 124.84 |
| 12 | cA | 823 | CLA | O2D-CGD-CBD | 5.46 | 120.97 | 111.27 |
| 12 | bA | 826 | CLA | CHD-C4C-C3C | -5.46 | 116.81 | 124.84 |
| 12 | bA | 835 | CLA | C2C-C1C-NC | 5.46 | 115.08 | 109.97 |
| 12 | bB | 917 | CLA | CHD-C4C-C3C | -5.46 | 116.82 | 124.84 |
| 12 | bA | 829 | CLA | C2C-C1C-NC | 5.45 | 115.08 | 109.97 |
| 12 | aA | 820 | CLA | C2C-C1C-NC | 5.45 | 115.08 | 109.97 |
| 12 | aA | 828 | CLA | CHD-C1D-ND | -5.45 | 119.44 | 124.45 |
| 12 | bA | 811 | CLA | C2C-C1C-NC | 5.45 | 115.08 | 109.97 |
| 12 | bA | 823 | CLA | O2D-CGD-CBD | 5.45 | 120.95 | 111.27 |
| 12 | aF | 202 | CLA | C2C-C1C-NC | 5.45 | 115.08 | 109.97 |
| 12 | bL | 202 | CLA | C2C-C1C-NC | 5.45 | 115.08 | 109.97 |
| 12 | cL | 202 | CLA | C2C-C1C-NC | 5.45 | 115.08 | 109.97 |
| 12 | aA | 802 | CLA | CHD-C4C-C3C | -5.44 | 116.84 | 124.84 |
| 12 | cA | 818 | CLA | CHD-C1D-ND | -5.44 | 119.45 | 124.45 |
| 12 | aL | 202 | CLA | C2C-C1C-NC | 5.44 | 115.07 | 109.97 |
| 12 | bL | 204 | CLA | CHD-C4C-C3C | -5.44 | 116.84 | 124.84 |
| 12 | cA | 841 | CLA | CHD-C1D-ND | -5.44 | 119.45 | 124.45 |
| 12 | bB | 938 | CLA | C2C-C1C-NC | 5.44 | 115.07 | 109.97 |
| 12 | cA | 828 | CLA | O2D-CGD-CBD | 5.44 | 120.94 | 111.27 |
| 12 | cA | 829 | CLA | C2C-C1C-NC | 5.44 | 115.07 | 109.97 |
| 12 | cB | 931 | CLA | C3D-C2D-C1D | -5.44 | 98.41 | 105.83 |
| 12 | bB | 910 | CLA | CHD-C4C-C3C | -5.44 | 116.85 | 124.84 |
| 12 | aA | 811 | CLA | C2C-C1C-NC | 5.44 | 115.06 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 930 | CLA | CHD-C1D-ND | -5.43 | 119.46 | 124.45 |
| 12 | aB | 910 | CLA | CHD-C4C-C3C | -5.43 | 116.85 | 124.84 |
| 12 | aB | 931 | CLA | C3D-C2D-C1D | -5.43 | 98.42 | 105.83 |
| 12 | bF | 202 | CLA | C2C-C1C-NC | 5.43 | 115.06 | 109.97 |
| 12 | cA | 820 | CLA | C2C-C1C-NC | 5.43 | 115.06 | 109.97 |
| 12 | cA | 806 | CLA | C2C-C1C-NC | 5.43 | 115.06 | 109.97 |
| 12 | bB | 912 | CLA | CHD-C1D-ND | -5.43 | 119.47 | 124.45 |
| 12 | aB | 938 | CLA | C2C-C1C-NC | 5.43 | 115.06 | 109.97 |
| 12 | cA | 803 | CLA | CHD-C1D-ND | -5.42 | 119.47 | 124.45 |
| 12 | bA | 828 | CLA | O2D-CGD-CBD | 5.42 | 120.91 | 111.27 |
| 12 | cB | 910 | CLA | CHD-C4C-C3C | -5.42 | 116.87 | 124.84 |
| 12 | aA | 828 | CLA | O2D-CGD-CBD | 5.42 | 120.90 | 111.27 |
| 12 | aB | 901 | CLA | C2C-C1C-NC | 5.42 | 115.05 | 109.97 |
| 12 | bA | 818 | CLA | CHD-C1D-ND | -5.42 | 119.47 | 124.45 |
| 12 | aB | 925 | CLA | C3D-C2D-C1D | -5.42 | 98.44 | 105.83 |
| 12 | cB | 925 | CLA | C3D-C2D-C1D | -5.42 | 98.44 | 105.83 |
| 12 | bA | 832 | CLA | CHD-C4C-C3C | -5.42 | 116.88 | 124.84 |
| 12 | aA | 835 | CLA | C2C-C1C-NC | 5.42 | 115.05 | 109.97 |
| 12 | bB | 925 | CLA | C3D-C2D-C1D | -5.42 | 98.44 | 105.83 |
| 12 | cF | 202 | CLA | CHD-C1D-ND | -5.42 | 119.48 | 124.45 |
| 12 | bB | 919 | CLA | CHD-C1D-ND | -5.41 | 119.48 | 124.45 |
| 12 | cA | 825 | CLA | O2D-CGD-CBD | 5.41 | 120.88 | 111.27 |
| 12 | aL | 204 | CLA | CHD-C4C-C3C | -5.41 | 116.89 | 124.84 |
| 12 | aF | 202 | CLA | CHD-C1D-ND | -5.41 | 119.48 | 124.45 |
| 12 | bF | 202 | CLA | CHD-C1D-ND | -5.41 | 119.48 | 124.45 |
| 12 | aA | 825 | CLA | O2D-CGD-CBD | 5.41 | 120.88 | 111.27 |
| 12 | aA | 832 | CLA | CHD-C4C-C3C | -5.41 | 116.89 | 124.84 |
| 12 | aA | 838 | CLA | O2D-CGD-CBD | 5.41 | 120.88 | 111.27 |
| 12 | bB | 906 | CLA | C2C-C1C-NC | 5.41 | 115.04 | 109.97 |
| 12 | bB | 931 | CLA | C3D-C2D-C1D | -5.41 | 98.45 | 105.83 |
| 12 | cB | 919 | CLA | CHD-C1D-ND | -5.41 | 119.48 | 124.45 |
| 12 | bA | 820 | CLA | C2C-C1C-NC | 5.40 | 115.03 | 109.97 |
| 12 | cB | 906 | CLA | C2C-C1C-NC | 5.40 | 115.03 | 109.97 |
| 12 | cA | 838 | CLA | O2D-CGD-CBD | 5.40 | 120.87 | 111.27 |
| 12 | cA | 832 | CLA | CHD-C4C-C3C | -5.40 | 116.90 | 124.84 |
| 12 | bA | 838 | CLA | O2D-CGD-CBD | 5.40 | 120.86 | 111.27 |
| 12 | aA | 815 | CLA | CHD-C4C-C3C | -5.40 | 116.90 | 124.84 |
| 12 | bA | 825 | CLA | O2D-CGD-CBD | 5.40 | 120.86 | 111.27 |
| 12 | bA | 803 | CLA | CHD-C1D-ND | -5.40 | 119.49 | 124.45 |
| 12 | cA | 818 | CLA | C2C-C1C-NC | 5.40 | 115.03 | 109.97 |
| 12 | cL | 204 | CLA | CHD-C4C-C3C | -5.40 | 116.91 | 124.84 |
| 12 | aA | 836 | CLA | CHD-C1D-ND | -5.40 | 119.50 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 837 | CLA | O2D-CGD-CBD | 5.39 | 120.85 | 111.27 |
| 12 | bB | 949 | CLA | CHD-C1D-ND | -5.39 | 119.50 | 124.45 |
| 12 | aA | 803 | CLA | CHD-C1D-ND | -5.39 | 119.50 | 124.45 |
| 12 | cA | 837 | CLA | O2D-CGD-CBD | 5.39 | 120.85 | 111.27 |
| 12 | cA | 815 | CLA | CHD-C4C-C3C | -5.39 | 116.92 | 124.84 |
| 12 | aA | 829 | CLA | CMD-C2D-C1D | 5.39 | 134.21 | 124.71 |
| 12 | aB | 949 | CLA | CHD-C1D-ND | -5.39 | 119.50 | 124.45 |
| 12 | bA | 836 | CLA | CHD-C1D-ND | -5.39 | 119.50 | 124.45 |
| 12 | bA | 829 | CLA | CMD-C2D-C1D | 5.39 | 134.21 | 124.71 |
| 12 | aB | 912 | CLA | CHD-C1D-ND | -5.39 | 119.50 | 124.45 |
| 12 | aB | 919 | CLA | CHD-C1D-ND | -5.39 | 119.50 | 124.45 |
| 12 | cA | 814 | CLA | CHD-C1D-ND | -5.39 | 119.50 | 124.45 |
| 12 | cB | 936 | CLA | C2C-C1C-NC | 5.39 | 115.02 | 109.97 |
| 12 | bA | 837 | CLA | O2D-CGD-CBD | 5.38 | 120.83 | 111.27 |
| 12 | aB | 906 | CLA | C2C-C1C-NC | 5.38 | 115.02 | 109.97 |
| 12 | aB | 939 | CLA | CHD-C1D-ND | -5.38 | 119.51 | 124.45 |
| 12 | aA | 806 | CLA | C2C-C1C-NC | 5.38 | 115.01 | 109.97 |
| 12 | aA | 818 | CLA | C2C-C1C-NC | 5.38 | 115.01 | 109.97 |
| 12 | cB | 938 | CLA | C2C-C1C-NC | 5.38 | 115.01 | 109.97 |
| 12 | cA | 829 | CLA | CMD-C2D-C1D | 5.38 | 134.19 | 124.71 |
| 12 | bA | 815 | CLA | CHD-C4C-C3C | -5.37 | 116.94 | 124.84 |
| 12 | bA | 808 | CLA | CHD-C4C-C3C | -5.37 | 116.94 | 124.84 |
| 12 | cB | 935 | CLA | C2C-C1C-NC | 5.37 | 115.00 | 109.97 |
| 12 | cA | 836 | CLA | CHD-C1D-ND | -5.37 | 119.52 | 124.45 |
| 12 | bB | 935 | CLA | C2C-C1C-NC | 5.37 | 115.00 | 109.97 |
| 12 | aB | 935 | CLA | C2C-C1C-NC | 5.36 | 115.00 | 109.97 |
| 12 | cB | 949 | CLA | CHD-C1D-ND | -5.36 | 119.52 | 124.45 |
| 12 | cA | 807 | CLA | C3D-C2D-C1D | -5.36 | 98.52 | 105.83 |
| 12 | bB | 901 | CLA | C2C-C1C-NC | 5.35 | 114.98 | 109.97 |
| 12 | aA | 808 | CLA | CHD-C4C-C3C | -5.35 | 116.98 | 124.84 |
| 12 | cB | 906 | CLA | CMD-C2D-C1D | 5.35 | 134.14 | 124.71 |
| 12 | aB | 906 | CLA | CMD-C2D-C1D | 5.35 | 134.14 | 124.71 |
| 12 | aA | 814 | CLA | CHD-C1D-ND | -5.35 | 119.54 | 124.45 |
| 12 | aB | 935 | CLA | CHD-C1D-ND | -5.35 | 119.54 | 124.45 |
| 12 | bB | 906 | CLA | CMD-C2D-C1D | 5.34 | 134.13 | 124.71 |
| 12 | bB | 935 | CLA | CHD-C1D-ND | -5.34 | 119.55 | 124.45 |
| 12 | aB | 936 | CLA | C2C-C1C-NC | 5.34 | 114.97 | 109.97 |
| 12 | bA | 814 | CLA | CHD-C1D-ND | -5.34 | 119.55 | 124.45 |
| 12 | aA | 814 | CLA | C2C-C1C-NC | 5.34 | 114.97 | 109.97 |
| 12 | cA | 826 | CLA | C2C-C1C-NC | 5.34 | 114.97 | 109.97 |
| 12 | cA | 808 | CLA | CHD-C4C-C3C | -5.33 | 117.00 | 124.84 |
| 12 | bA | 814 | CLA | C2C-C1C-NC | 5.33 | 114.97 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 819 | CLA | C2C-C1C-NC | 5.33 | 114.97 | 109.97 |
| 12 | aA | 826 | CLA | C2C-C1C-NC | 5.33 | 114.97 | 109.97 |
| 12 | cA | 814 | CLA | C2C-C1C-NC | 5.33 | 114.97 | 109.97 |
| 12 | cB | 935 | CLA | CHD-C1D-ND | -5.33 | 119.56 | 124.45 |
| 12 | cB | 901 | CLA | C2C-C1C-NC | 5.33 | 114.96 | 109.97 |
| 12 | cB | 904 | CLA | O2D-CGD-CBD | 5.33 | 120.73 | 111.27 |
| 12 | bB | 939 | CLA | CHD-C1D-ND | -5.33 | 119.56 | 124.45 |
| 12 | aA | 807 | CLA | C3D-C2D-C1D | -5.32 | 98.57 | 105.83 |
| 12 | bA | 806 | CLA | C2C-C1C-NC | 5.32 | 114.95 | 109.97 |
| 12 | aB | 904 | CLA | O2D-CGD-CBD | 5.32 | 120.72 | 111.27 |
| 12 | bB | 936 | CLA | C2C-C1C-NC | 5.31 | 114.95 | 109.97 |
| 12 | bA | 826 | CLA | C2C-C1C-NC | 5.31 | 114.95 | 109.97 |
| 12 | bB | 904 | CLA | O2D-CGD-CBD | 5.31 | 120.70 | 111.27 |
| 12 | bA | 807 | CLA | C3D-C2D-C1D | -5.31 | 98.59 | 105.83 |
| 12 | cA | 838 | CLA | C2C-C1C-NC | 5.31 | 114.94 | 109.97 |
| 12 | aB | 906 | CLA | CHD-C1D-ND | -5.31 | 119.58 | 124.45 |
| 12 | cB | 939 | CLA | CHD-C1D-ND | -5.30 | 119.58 | 124.45 |
| 12 | cL | 202 | CLA | CHD-C4C-C3C | -5.30 | 117.05 | 124.84 |
| 12 | aL | 202 | CLA | CHD-C4C-C3C | -5.30 | 117.05 | 124.84 |
| 12 | aA | 815 | CLA | C2C-C1C-NC | 5.29 | 114.93 | 109.97 |
| 12 | cA | 841 | CLA | C2C-C1C-NC | 5.29 | 114.93 | 109.97 |
| 11 | bA | 801 | CL0 | CHD-C4C-C3C | -5.29 | 117.06 | 124.84 |
| 12 | cA | 821 | CLA | C2C-C1C-NC | 5.29 | 114.93 | 109.97 |
| 12 | bA | 837 | CLA | CHD-C4C-C3C | -5.29 | 117.06 | 124.84 |
| 12 | cA | 813 | CLA | C2C-C1C-NC | 5.29 | 114.92 | 109.97 |
| 12 | aB | 905 | CLA | CHD-C1D-ND | -5.29 | 119.60 | 124.45 |
| 12 | aB | 913 | CLA | C2C-C1C-NC | 5.28 | 114.92 | 109.97 |
| 12 | bA | 813 | CLA | C2C-C1C-NC | 5.28 | 114.92 | 109.97 |
| 12 | aA | 837 | CLA | CHD-C4C-C3C | -5.28 | 117.07 | 124.84 |
| 12 | aB | 903 | CLA | CHD-C1D-ND | -5.28 | 119.60 | 124.45 |
| 12 | cA | 837 | CLA | CHD-C4C-C3C | -5.28 | 117.08 | 124.84 |
| 12 | aA | 813 | CLA | C2C-C1C-NC | 5.28 | 114.92 | 109.97 |
| 12 | bA | 815 | CLA | C2C-C1C-NC | 5.28 | 114.92 | 109.97 |
| 12 | bA | 821 | CLA | C2C-C1C-NC | 5.28 | 114.92 | 109.97 |
| 11 | aA | 801 | CL0 | CHD-C4C-C3C | -5.28 | 117.09 | 124.84 |
| 12 | aA | 822 | CLA | C3D-C2D-C1D | -5.27 | 98.63 | 105.83 |
| 12 | bL | 202 | CLA | CHD-C4C-C3C | -5.27 | 117.09 | 124.84 |
| 12 | cA | 827 | CLA | C3D-C2D-C1D | -5.27 | 98.64 | 105.83 |
| 12 | aA | 819 | CLA | C2C-C1C-NC | 5.27 | 114.91 | 109.97 |
| 11 | cA | 801 | CL0 | CHD-C4C-C3C | -5.27 | 117.09 | 124.84 |
| 12 | aA | 838 | CLA | C2C-C1C-NC | 5.27 | 114.91 | 109.97 |
| 12 | aA | 816 | CLA | C2C-C1C-NC | 5.27 | 114.91 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 903 | CLA | CHD-C1D-ND | -5.27 | 119.61 | 124.45 |
| 12 | aA | 821 | CLA | C2C-C1C-NC | 5.26 | 114.90 | 109.97 |
| 12 | cB | 934 | CLA | CHD-C4C-C3C | -5.26 | 117.11 | 124.84 |
| 12 | bA | 841 | CLA | C2C-C1C-NC | 5.26 | 114.90 | 109.97 |
| 12 | bB | 934 | CLA | CHD-C4C-C3C | -5.26 | 117.11 | 124.84 |
| 12 | cB | 911 | CLA | CHD-C1D-ND | -5.26 | 119.62 | 124.45 |
| 12 | bB | 913 | CLA | C2C-C1C-NC | 5.26 | 114.90 | 109.97 |
| 12 | aB | 934 | CLA | CHD-C4C-C3C | -5.25 | 117.12 | 124.84 |
| 12 | cB | 903 | CLA | CHD-C1D-ND | -5.25 | 119.62 | 124.45 |
| 12 | aA | 827 | CLA | C3D-C2D-C1D | -5.25 | 98.66 | 105.83 |
| 12 | cA | 822 | CLA | C3D-C2D-C1D | -5.25 | 98.66 | 105.83 |
| 12 | bA | 830 | CLA | CHD-C1D-ND | -5.25 | 119.63 | 124.45 |
| 12 | bA | 827 | CLA | C3D-C2D-C1D | -5.25 | 98.67 | 105.83 |
| 12 | bA | 819 | CLA | C2C-C1C-NC | 5.25 | 114.89 | 109.97 |
| 12 | cF | 202 | CLA | CHD-C4C-C3C | -5.25 | 117.13 | 124.84 |
| 12 | bA | 816 | CLA | C2C-C1C-NC | 5.25 | 114.89 | 109.97 |
| 12 | bA | 822 | CLA | C3D-C2D-C1D | -5.25 | 98.67 | 105.83 |
| 12 | cB | 913 | CLA | C2C-C1C-NC | 5.25 | 114.89 | 109.97 |
| 12 | cB | 919 | CLA | C2C-C1C-NC | 5.24 | 114.88 | 109.97 |
| 12 | bA | 843 | CLA | CHD-C4C-C3C | -5.24 | 117.14 | 124.84 |
| 12 | aF | 202 | CLA | CHD-C4C-C3C | -5.24 | 117.14 | 124.84 |
| 12 | bF | 202 | CLA | CHD-C4C-C3C | -5.24 | 117.14 | 124.84 |
| 12 | aA | 843 | CLA | CHD-C4C-C3C | -5.24 | 117.14 | 124.84 |
| 12 | bA | 838 | CLA | C2C-C1C-NC | 5.24 | 114.88 | 109.97 |
| 12 | bB | 906 | CLA | CHD-C1D-ND | -5.24 | 119.64 | 124.45 |
| 12 | cA | 843 | CLA | CHD-C4C-C3C | -5.23 | 117.15 | 124.84 |
| 12 | cA | 803 | CLA | CMB-C2B-C3B | 5.23 | 134.46 | 124.68 |
| 12 | aB | 911 | CLA | CHD-C1D-ND | -5.23 | 119.65 | 124.45 |
| 12 | bA | 804 | CLA | C2C-C1C-NC | 5.23 | 114.87 | 109.97 |
| 12 | bB | 905 | CLA | CHD-C1D-ND | -5.22 | 119.65 | 124.45 |
| 12 | aB | 919 | CLA | C2C-C1C-NC | 5.22 | 114.86 | 109.97 |
| 12 | bB | 919 | CLA | C2C-C1C-NC | 5.22 | 114.86 | 109.97 |
| 12 | aB | 913 | CLA | CHD-C1D-ND | -5.22 | 119.66 | 124.45 |
| 12 | cA | 816 | CLA | C2C-C1C-NC | 5.22 | 114.86 | 109.97 |
| 12 | cB | 906 | CLA | CHD-C1D-ND | -5.22 | 119.66 | 124.45 |
| 12 | aA | 803 | CLA | CMB-C2B-C3B | 5.22 | 134.44 | 124.68 |
| 12 | cB | 937 | CLA | C2C-C1C-NC | 5.22 | 114.86 | 109.97 |
| 12 | aA | 841 | CLA | C2C-C1C-NC | 5.21 | 114.85 | 109.97 |
| 12 | bB | 937 | CLA | C2C-C1C-NC | 5.21 | 114.85 | 109.97 |
| 12 | cB | 905 | CLA | CHD-C1D-ND | -5.20 | 119.67 | 124.45 |
| 12 | bA | 803 | CLA | CMB-C2B-C3B | 5.20 | 134.41 | 124.68 |
| 12 | aB | 911 | CLA | O2D-CGD-CBD | 5.20 | 120.50 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 930 | CLA | O2D-CGD-CBD | 5.19 | 120.50 | 111.27 |
| 12 | bB | 913 | CLA | CHD-C1D-ND | -5.19 | 119.68 | 124.45 |
| 12 | cB | 924 | CLA | CHD-C4C-C3C | -5.19 | 117.21 | 124.84 |
| 12 | cA | 815 | CLA | C2C-C1C-NC | 5.19 | 114.84 | 109.97 |
| 12 | cA | 816 | CLA | CMD-C2D-C1D | 5.19 | 133.86 | 124.71 |
| 12 | aB | 920 | CLA | C3D-C2D-C1D | -5.19 | 98.75 | 105.83 |
| 12 | bB | 930 | CLA | O2D-CGD-CBD | 5.19 | 120.49 | 111.27 |
| 12 | cA | 804 | CLA | C2C-C1C-NC | 5.19 | 114.83 | 109.97 |
| 12 | aA | 816 | CLA | CMD-C2D-C1D | 5.19 | 133.85 | 124.71 |
| 12 | cB | 913 | CLA | CHD-C1D-ND | -5.19 | 119.69 | 124.45 |
| 12 | bB | 924 | CLA | CHD-C4C-C3C | -5.18 | 117.22 | 124.84 |
| 12 | bB | 911 | CLA | O2D-CGD-CBD | 5.18 | 120.48 | 111.27 |
| 12 | bB | 911 | CLA | CHD-C1D-ND | -5.18 | 119.69 | 124.45 |
| 12 | cB | 920 | CLA | C3D-C2D-C1D | -5.18 | 98.76 | 105.83 |
| 12 | bA | 816 | CLA | CMD-C2D-C1D | 5.18 | 133.84 | 124.71 |
| 12 | aB | 924 | CLA | CHD-C4C-C3C | -5.18 | 117.23 | 124.84 |
| 12 | bB | 920 | CLA | C3D-C2D-C1D | -5.18 | 98.77 | 105.83 |
| 12 | cA | 802 | CLA | C2C-C1C-NC | 5.17 | 114.82 | 109.97 |
| 12 | cB | 911 | CLA | O2D-CGD-CBD | 5.17 | 120.46 | 111.27 |
| 12 | bB | 912 | CLA | C2C-C1C-NC | 5.17 | 114.82 | 109.97 |
| 12 | cB | 930 | CLA | O2D-CGD-CBD | 5.17 | 120.45 | 111.27 |
| 12 | aB | 937 | CLA | C2C-C1C-NC | 5.17 | 114.81 | 109.97 |
| 12 | aB | 902 | CLA | CMD-C2D-C1D | 5.16 | 133.81 | 124.71 |
| 12 | cB | 902 | CLA | CMD-C2D-C1D | 5.16 | 133.81 | 124.71 |
| 12 | bA | 834 | CLA | C3D-C2D-C1D | -5.16 | 98.78 | 105.83 |
| 12 | bB | 918 | CLA | CHD-C4C-C3C | -5.16 | 117.26 | 124.84 |
| 12 | bA | 831 | CLA | C2C-C1C-NC | 5.15 | 114.80 | 109.97 |
| 12 | cA | 834 | CLA | C3D-C2D-C1D | -5.15 | 98.80 | 105.83 |
| 12 | aA | 819 | CLA | O2D-CGD-CBD | 5.15 | 120.42 | 111.27 |
| 12 | cB | 918 | CLA | CHD-C4C-C3C | -5.15 | 117.27 | 124.84 |
| 12 | bL | 204 | CLA | C2C-C1C-NC | 5.15 | 114.80 | 109.97 |
| 12 | bA | 810 | CLA | C2C-C1C-NC | 5.15 | 114.80 | 109.97 |
| 12 | aA | 834 | CLA | C3D-C2D-C1D | -5.15 | 98.81 | 105.83 |
| 12 | cA | 813 | CLA | CMD-C2D-C1D | 5.15 | 133.78 | 124.71 |
| 12 | aA | 831 | CLA | C2C-C1C-NC | 5.14 | 114.79 | 109.97 |
| 12 | cB | 937 | CLA | CHD-C4C-C3C | -5.14 | 117.28 | 124.84 |
| 12 | aB | 918 | CLA | CHD-C4C-C3C | -5.14 | 117.28 | 124.84 |
| 12 | cA | 831 | CLA | C2C-C1C-NC | 5.14 | 114.79 | 109.97 |
| 12 | cB | 912 | CLA | C2C-C1C-NC | 5.14 | 114.79 | 109.97 |
| 12 | aA | 813 | CLA | CMD-C2D-C1D | 5.14 | 133.77 | 124.71 |
| 12 | aB | 912 | CLA | C2C-C1C-NC | 5.14 | 114.78 | 109.97 |
| 12 | cA | 830 | CLA | CHD-C1D-ND | -5.14 | 119.73 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 819 | CLA | O2D-CGD-CBD | 5.13 | 120.39 | 111.27 |
| 12 | aA | 830 | CLA | CHD-C1D-ND | -5.13 | 119.74 | 124.45 |
| 12 | aB | 934 | CLA | C2C-C1C-NC | 5.13 | 114.78 | 109.97 |
| 12 | cB | 904 | CLA | C2C-C1C-NC | 5.13 | 114.78 | 109.97 |
| 12 | bB | 902 | CLA | CMD-C2D-C1D | 5.13 | 133.75 | 124.71 |
| 12 | aA | 810 | CLA | C2C-C1C-NC | 5.13 | 114.78 | 109.97 |
| 12 | aB | 904 | CLA | C2C-C1C-NC | 5.13 | 114.77 | 109.97 |
| 12 | bB | 904 | CLA | C2C-C1C-NC | 5.13 | 114.77 | 109.97 |
| 12 | bB | 937 | CLA | CHD-C4C-C3C | -5.13 | 117.31 | 124.84 |
| 12 | aA | 804 | CLA | C2C-C1C-NC | 5.12 | 114.77 | 109.97 |
| 12 | cA | 821 | CLA | CHD-C1D-ND | -5.12 | 119.75 | 124.45 |
| 12 | bA | 819 | CLA | O2D-CGD-CBD | 5.12 | 120.37 | 111.27 |
| 12 | cL | 204 | CLA | C2C-C1C-NC | 5.12 | 114.77 | 109.97 |
| 12 | aB | 937 | CLA | CHD-C4C-C3C | -5.12 | 117.32 | 124.84 |
| 12 | aA | 802 | CLA | C2C-C1C-NC | 5.12 | 114.77 | 109.97 |
| 12 | bB | 934 | CLA | C2C-C1C-NC | 5.11 | 114.76 | 109.97 |
| 12 | cB | 934 | CLA | C2C-C1C-NC | 5.11 | 114.76 | 109.97 |
| 12 | aB | 905 | CLA | C3D-C2D-C1D | -5.11 | 98.86 | 105.83 |
| 12 | cA | 811 | CLA | O2D-CGD-CBD | 5.11 | 120.34 | 111.27 |
| 12 | aA | 838 | CLA | C3D-C2D-C1D | -5.11 | 98.86 | 105.83 |
| 12 | cB | 905 | CLA | C3D-C2D-C1D | -5.10 | 98.87 | 105.83 |
| 12 | cA | 810 | CLA | C2C-C1C-NC | 5.10 | 114.75 | 109.97 |
| 12 | bA | 813 | CLA | CMD-C2D-C1D | 5.10 | 133.70 | 124.71 |
| 12 | bB | 905 | CLA | C3D-C2D-C1D | -5.10 | 98.87 | 105.83 |
| 12 | aA | 821 | CLA | CHD-C1D-ND | -5.10 | 119.77 | 124.45 |
| 12 | aB | 922 | CLA | CHD-C1D-ND | -5.10 | 119.77 | 124.45 |
| 12 | cA | 837 | CLA | C3D-C2D-C1D | -5.10 | 98.87 | 105.83 |
| 12 | bA | 837 | CLA | C3D-C2D-C1D | -5.10 | 98.87 | 105.83 |
| 12 | bB | 922 | CLA | CHD-C1D-ND | -5.10 | 119.77 | 124.45 |
| 12 | bA | 838 | CLA | C3D-C2D-C1D | -5.10 | 98.88 | 105.83 |
| 12 | aA | 837 | CLA | C3D-C2D-C1D | -5.09 | 98.88 | 105.83 |
| 12 | cA | 826 | CLA | C3D-C2D-C1D | -5.09 | 98.88 | 105.83 |
| 12 | cA | 825 | CLA | C4A-NA-C1A | -5.09 | 104.42 | 106.71 |
| 12 | cB | 928 | CLA | CHD-C4C-C3C | -5.09 | 117.35 | 124.84 |
| 12 | cA | 853 | CLA | C3D-C2D-C1D | -5.09 | 98.88 | 105.83 |
| 12 | bA | 811 | CLA | O2D-CGD-CBD | 5.09 | 120.31 | 111.27 |
| 12 | bB | 923 | CLA | CHD-C1D-ND | -5.09 | 119.78 | 124.45 |
| 12 | cB | 932 | CLA | O2D-CGD-CBD | 5.09 | 120.31 | 111.27 |
| 12 | aB | 925 | CLA | CHD-C1D-ND | -5.09 | 119.78 | 124.45 |
| 12 | bA | 802 | CLA | C2C-C1C-NC | 5.09 | 114.74 | 109.97 |
| 12 | aA | 826 | CLA | C3D-C2D-C1D | -5.09 | 98.89 | 105.83 |
| 12 | bA | 821 | CLA | CHD-C1D-ND | -5.08 | 119.78 | 124.45 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 825 | CLA | C2C-C1C-NC | 5.08 | 114.73 | 109.97 |
| 12 | bA | 826 | CLA | C3D-C2D-C1D | -5.08 | 98.90 | 105.83 |
| 12 | aB | 932 | CLA | O2D-CGD-CBD | 5.08 | 120.30 | 111.27 |
| 12 | bB | 925 | CLA | CHD-C1D-ND | -5.08 | 119.79 | 124.45 |
| 12 | bB | 923 | CLA | C2C-C1C-NC | 5.08 | 114.73 | 109.97 |
| 12 | cA | 838 | CLA | C3D-C2D-C1D | -5.08 | 98.90 | 105.83 |
| 12 | aA | 811 | CLA | O2D-CGD-CBD | 5.08 | 120.29 | 111.27 |
| 12 | bB | 932 | CLA | O2D-CGD-CBD | 5.07 | 120.29 | 111.27 |
| 12 | bB | 918 | CLA | C2C-C1C-NC | 5.07 | 114.73 | 109.97 |
| 12 | cA | 827 | CLA | CHD-C1D-ND | -5.07 | 119.79 | 124.45 |
| 12 | cB | 923 | CLA | CHD-C1D-ND | -5.07 | 119.79 | 124.45 |
| 12 | aB | 923 | CLA | CHD-C1D-ND | -5.07 | 119.79 | 124.45 |
| 12 | bA | 832 | CLA | O2D-CGD-CBD | 5.07 | 120.28 | 111.27 |
| 12 | cA | 832 | CLA | O2D-CGD-CBD | 5.07 | 120.28 | 111.27 |
| 12 | aA | 832 | CLA | O2D-CGD-CBD | 5.07 | 120.28 | 111.27 |
| 12 | bB | 950 | CLA | CHD-C4C-C3C | -5.07 | 117.39 | 124.84 |
| 12 | aA | 803 | CLA | CHD-C4C-C3C | -5.07 | 117.39 | 124.84 |
| 12 | cB | 918 | CLA | C2C-C1C-NC | 5.07 | 114.72 | 109.97 |
| 12 | cB | 922 | CLA | CHD-C1D-ND | -5.07 | 119.80 | 124.45 |
| 12 | cB | 902 | CLA | C3D-C2D-C1D | -5.07 | 98.92 | 105.83 |
| 12 | bB | 933 | CLA | O2D-CGD-CBD | 5.07 | 120.27 | 111.27 |
| 12 | aA | 827 | CLA | CHD-C1D-ND | -5.07 | 119.80 | 124.45 |
| 12 | cA | 825 | CLA | C2C-C1C-NC | 5.06 | 114.72 | 109.97 |
| 12 | cB | 903 | CLA | C2C-C1C-NC | 5.06 | 114.71 | 109.97 |
| 12 | aB | 933 | CLA | O2D-CGD-CBD | 5.06 | 120.26 | 111.27 |
| 12 | bA | 853 | CLA | C3D-C2D-C1D | -5.06 | 98.93 | 105.83 |
| 12 | aB | 928 | CLA | CHD-C4C-C3C | -5.06 | 117.41 | 124.84 |
| 12 | aB | 922 | CLA | C2C-C1C-NC | 5.06 | 114.71 | 109.97 |
| 12 | aB | 950 | CLA | CHD-C4C-C3C | -5.06 | 117.41 | 124.84 |
| 12 | cB | 925 | CLA | CHD-C1D-ND | -5.05 | 119.81 | 124.45 |
| 12 | cA | 812 | CLA | CHD-C4C-C3C | -5.05 | 117.41 | 124.84 |
| 12 | bA | 825 | CLA | C4A-NA-C1A | -5.05 | 104.43 | 106.71 |
| 12 | cA | 815 | CLA | O2D-CGD-CBD | 5.05 | 120.25 | 111.27 |
| 12 | cB | 933 | CLA | O2D-CGD-CBD | 5.05 | 120.24 | 111.27 |
| 12 | bA | 812 | CLA | CHD-C4C-C3C | -5.05 | 117.42 | 124.84 |
| 12 | aA | 854 | CLA | C3D-C2D-C1D | -5.05 | 98.94 | 105.83 |
| 12 | bB | 914 | CLA | C2C-C1C-NC | 5.05 | 114.70 | 109.97 |
| 12 | aA | 812 | CLA | CHD-C4C-C3C | -5.05 | 117.42 | 124.84 |
| 12 | aA | 844 | CLA | CHD-C4C-C3C | -5.05 | 117.42 | 124.84 |
| 12 | bA | 815 | CLA | O2D-CGD-CBD | 5.05 | 120.24 | 111.27 |
| 12 | cB | 910 | CLA | O2D-CGD-CBD | 5.05 | 120.23 | 111.27 |
| 12 | aA | 810 | CLA | C3D-C2D-C1D | -5.05 | 98.94 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 840 | CLA | CHD-C4C-C3C | -5.04 | 117.43 | 124.84 |
| 12 | aB | 902 | CLA | C3D-C2D-C1D | -5.04 | 98.95 | 105.83 |
| 12 | bA | 842 | CLA | C3D-C2D-C1D | -5.04 | 98.95 | 105.83 |
| 12 | cB | 923 | CLA | C2C-C1C-NC | 5.04 | 114.69 | 109.97 |
| 12 | aA | 842 | CLA | C3D-C2D-C1D | -5.04 | 98.95 | 105.83 |
| 12 | aA | 815 | CLA | O2D-CGD-CBD | 5.04 | 120.22 | 111.27 |
| 12 | aL | 204 | CLA | C2C-C1C-NC | 5.04 | 114.69 | 109.97 |
| 12 | aA | 825 | CLA | C4A-NA-C1A | -5.04 | 104.44 | 106.71 |
| 12 | bA | 840 | CLA | CHD-C4C-C3C | -5.04 | 117.44 | 124.84 |
| 12 | bB | 928 | CLA | CHD-C4C-C3C | -5.03 | 117.44 | 124.84 |
| 12 | bA | 828 | CLA | C2C-C1C-NC | 5.03 | 114.69 | 109.97 |
| 12 | bA | 803 | CLA | CHD-C4C-C3C | -5.03 | 117.44 | 124.84 |
| 12 | bA | 817 | CLA | C2C-C1C-NC | 5.03 | 114.68 | 109.97 |
| 12 | bB | 902 | CLA | C3D-C2D-C1D | -5.03 | 98.97 | 105.83 |
| 12 | bA | 825 | CLA | C2C-C1C-NC | 5.03 | 114.68 | 109.97 |
| 12 | aB | 923 | CLA | C2C-C1C-NC | 5.02 | 114.68 | 109.97 |
| 12 | cB | 922 | CLA | C2C-C1C-NC | 5.02 | 114.68 | 109.97 |
| 12 | bA | 827 | CLA | CHD-C1D-ND | -5.02 | 119.84 | 124.45 |
| 12 | aB | 908 | CLA | CHD-C4C-C3C | -5.02 | 117.46 | 124.84 |
| 12 | bB | 903 | CLA | C2C-C1C-NC | 5.02 | 114.68 | 109.97 |
| 12 | cA | 817 | CLA | C2C-C1C-NC | 5.02 | 114.68 | 109.97 |
| 12 | cA | 842 | CLA | C3D-C2D-C1D | -5.02 | 98.98 | 105.83 |
| 12 | cB | 908 | CLA | CHD-C4C-C3C | -5.02 | 117.46 | 124.84 |
| 12 | aB | 910 | CLA | O2D-CGD-CBD | 5.02 | 120.19 | 111.27 |
| 12 | cA | 803 | CLA | CHD-C4C-C3C | -5.02 | 117.47 | 124.84 |
| 12 | cA | 839 | CLA | C3D-C2D-C1D | -5.02 | 98.99 | 105.83 |
| 12 | aA | 844 | CLA | O2D-CGD-CBD | 5.01 | 120.18 | 111.27 |
| 12 | aA | 828 | CLA | C2C-C1C-NC | 5.01 | 114.67 | 109.97 |
| 12 | bA | 810 | CLA | C3D-C2D-C1D | -5.01 | 98.99 | 105.83 |
| 12 | cA | 810 | CLA | C3D-C2D-C1D | -5.01 | 98.99 | 105.83 |
| 12 | aB | 914 | CLA | C2C-C1C-NC | 5.01 | 114.67 | 109.97 |
| 12 | bB | 910 | CLA | O2D-CGD-CBD | 5.01 | 120.17 | 111.27 |
| 12 | bB | 908 | CLA | CHD-C4C-C3C | -5.01 | 117.48 | 124.84 |
| 12 | aA | 840 | CLA | CHD-C4C-C3C | -5.01 | 117.48 | 124.84 |
| 12 | aA | 817 | CLA | C2C-C1C-NC | 5.01 | 114.66 | 109.97 |
| 12 | bB | 922 | CLA | C2C-C1C-NC | 5.00 | 114.66 | 109.97 |
| 12 | aB | 920 | CLA | C2C-C1C-NC | 5.00 | 114.66 | 109.97 |
| 12 | cA | 828 | CLA | C2C-C1C-NC | 5.00 | 114.66 | 109.97 |
| 12 | cB | 914 | CLA | C2C-C1C-NC | 5.00 | 114.66 | 109.97 |
| 12 | cB | 914 | CLA | C3D-C2D-C1D | -5.00 | 99.01 | 105.83 |
| 12 | aA | 832 | CLA | C2C-C1C-NC | 4.99 | 114.65 | 109.97 |
| 12 | aB | 918 | CLA | C2C-C1C-NC | 4.99 | 114.65 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 835 | CLA | CMD-C2D-C1D | 4.99 | 133.51 | 124.71 |
| 12 | bB | 914 | CLA | C3D-C2D-C1D | -4.99 | 99.02 | 105.83 |
| 12 | aB | 903 | CLA | C2C-C1C-NC | 4.99 | 114.65 | 109.97 |
| 12 | aA | 839 | CLA | C3D-C2D-C1D | -4.99 | 99.03 | 105.83 |
| 12 | bB | 950 | CLA | O2D-CGD-CBD | 4.98 | 120.12 | 111.27 |
| 12 | aB | 950 | CLA | O2D-CGD-CBD | 4.98 | 120.12 | 111.27 |
| 12 | cB | 908 | CLA | C1C-C2C-C3C | -4.98 | 101.72 | 106.96 |
| 12 | aB | 917 | CLA | C3D-C2D-C1D | -4.98 | 99.03 | 105.83 |
| 12 | bA | 839 | CLA | C3D-C2D-C1D | -4.98 | 99.04 | 105.83 |
| 12 | aA | 835 | CLA | CMD-C2D-C1D | 4.98 | 133.48 | 124.71 |
| 12 | bB | 908 | CLA | CMD-C2D-C1D | 4.97 | 133.48 | 124.71 |
| 12 | cB | 909 | CLA | CHD-C1D-ND | -4.97 | 119.89 | 124.45 |
| 12 | bA | 831 | CLA | CHD-C1D-ND | -4.97 | 119.89 | 124.45 |
| 12 | bA | 835 | CLA | CMD-C2D-C1D | 4.97 | 133.47 | 124.71 |
| 12 | aB | 914 | CLA | C3D-C2D-C1D | -4.97 | 99.05 | 105.83 |
| 12 | aB | 909 | CLA | CHD-C1D-ND | -4.97 | 119.89 | 124.45 |
| 12 | bA | 832 | CLA | C2C-C1C-NC | 4.96 | 114.62 | 109.97 |
| 12 | cB | 917 | CLA | C3D-C2D-C1D | -4.96 | 99.06 | 105.83 |
| 12 | bB | 920 | CLA | C2C-C1C-NC | 4.96 | 114.62 | 109.97 |
| 12 | cB | 920 | CLA | C2C-C1C-NC | 4.96 | 114.62 | 109.97 |
| 12 | bL | 203 | CLA | C3D-C2D-C1D | -4.96 | 99.06 | 105.83 |
| 12 | bB | 903 | CLA | C3D-C2D-C1D | -4.96 | 99.06 | 105.83 |
| 12 | aA | 831 | CLA | CHD-C1D-ND | -4.96 | 119.90 | 124.45 |
| 12 | aA | 854 | CLA | C2C-C1C-NC | 4.96 | 114.61 | 109.97 |
| 12 | cB | 903 | CLA | C3D-C2D-C1D | -4.95 | 99.07 | 105.83 |
| 12 | bB | 917 | CLA | C3D-C2D-C1D | -4.95 | 99.07 | 105.83 |
| 12 | bA | 853 | CLA | C2C-C1C-NC | 4.95 | 114.61 | 109.97 |
| 12 | cA | 813 | CLA | O2D-CGD-CBD | 4.95 | 120.06 | 111.27 |
| 12 | cA | 831 | CLA | CHD-C1D-ND | -4.95 | 119.91 | 124.45 |
| 12 | bB | 924 | CLA | CAA-C2A-C3A | -4.95 | 99.23 | 112.78 |
| 12 | aB | 903 | CLA | C3D-C2D-C1D | -4.95 | 99.08 | 105.83 |
| 12 | cL | 203 | CLA | C3D-C2D-C1D | -4.94 | 99.08 | 105.83 |
| 12 | cB | 924 | CLA | CAA-C2A-C3A | -4.94 | 99.24 | 112.78 |
| 12 | bA | 820 | CLA | CHD-C1D-ND | -4.94 | 119.91 | 124.45 |
| 12 | cB | 924 | CLA | C2C-C1C-NC | 4.94 | 114.60 | 109.97 |
| 12 | aL | 203 | CLA | C3D-C2D-C1D | -4.94 | 99.09 | 105.83 |
| 12 | bB | 908 | CLA | C1C-C2C-C3C | -4.94 | 101.76 | 106.96 |
| 12 | aA | 830 | CLA | CMD-C2D-C1D | 4.94 | 133.42 | 124.71 |
| 12 | aA | 813 | CLA | O2D-CGD-CBD | 4.94 | 120.04 | 111.27 |
| 12 | aB | 924 | CLA | C2C-C1C-NC | 4.94 | 114.60 | 109.97 |
| 12 | bB | 924 | CLA | C2C-C1C-NC | 4.94 | 114.60 | 109.97 |
| 12 | aB | 924 | CLA | CAA-C2A-C3A | -4.94 | 99.26 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 908 | CLA | CMD-C2D-C1D | 4.94 | 133.41 | 124.71 |
| 12 | aB | 908 | CLA | CMD-C2D-C1D | 4.94 | 133.41 | 124.71 |
| 12 | aB | 908 | CLA | C1C-C2C-C3C | -4.93 | 101.77 | 106.96 |
| 12 | bB | 909 | CLA | CHD-C1D-ND | -4.93 | 119.92 | 124.45 |
| 12 | aB | 925 | CLA | C2C-C1C-NC | 4.93 | 114.59 | 109.97 |
| 12 | cA | 853 | CLA | C2C-C1C-NC | 4.93 | 114.59 | 109.97 |
| 12 | bA | 853 | CLA | C3C-C4C-NC | 4.93 | 116.10 | 110.57 |
| 12 | cA | 830 | CLA | CMD-C2D-C1D | 4.93 | 133.40 | 124.71 |
| 12 | cA | 819 | CLA | CAA-C2A-C3A | -4.93 | 99.28 | 112.78 |
| 12 | aB | 935 | CLA | C3C-C4C-NC | 4.93 | 116.10 | 110.57 |
| 12 | aA | 819 | CLA | CAA-C2A-C3A | -4.93 | 99.28 | 112.78 |
| 12 | cB | 925 | CLA | C2C-C1C-NC | 4.92 | 114.58 | 109.97 |
| 12 | aA | 820 | CLA | CHD-C1D-ND | -4.92 | 119.93 | 124.45 |
| 12 | bA | 830 | CLA | CMD-C2D-C1D | 4.92 | 133.38 | 124.71 |
| 12 | aB | 929 | CLA | C3D-C2D-C1D | -4.92 | 99.12 | 105.83 |
| 12 | cA | 834 | CLA | CHD-C4C-C3C | -4.92 | 117.61 | 124.84 |
| 12 | cA | 832 | CLA | C2C-C1C-NC | 4.92 | 114.58 | 109.97 |
| 12 | bA | 813 | CLA | O2D-CGD-CBD | 4.92 | 120.00 | 111.27 |
| 12 | cB | 934 | CLA | C4A-NA-C1A | -4.91 | 104.50 | 106.71 |
| 12 | cA | 809 | CLA | C2C-C1C-NC | 4.91 | 114.58 | 109.97 |
| 12 | bA | 819 | CLA | CAA-C2A-C3A | -4.91 | 99.32 | 112.78 |
| 12 | bA | 809 | CLA | C3D-C2D-C1D | -4.91 | 99.13 | 105.83 |
| 12 | cA | 829 | CLA | CHD-C1D-ND | -4.91 | 119.94 | 124.45 |
| 12 | aA | 854 | CLA | C3C-C4C-NC | 4.91 | 116.08 | 110.57 |
| 12 | bB | 925 | CLA | C2C-C1C-NC | 4.91 | 114.57 | 109.97 |
| 12 | bB | 926 | CLA | C3C-C4C-NC | 4.91 | 116.07 | 110.57 |
| 12 | bB | 915 | CLA | C3D-C2D-C1D | -4.91 | 99.14 | 105.83 |
| 12 | bA | 834 | CLA | CHD-C4C-C3C | -4.91 | 117.63 | 124.84 |
| 12 | aA | 809 | CLA | C3D-C2D-C1D | -4.90 | 99.14 | 105.83 |
| 12 | aB | 912 | CLA | O2D-CGD-CBD | 4.90 | 119.98 | 111.27 |
| 12 | aA | 829 | CLA | CHD-C1D-ND | -4.90 | 119.95 | 124.45 |
| 12 | cB | 912 | CLA | O2D-CGD-CBD | 4.90 | 119.98 | 111.27 |
| 12 | aB | 915 | CLA | C3D-C2D-C1D | -4.90 | 99.14 | 105.83 |
| 12 | bB | 912 | CLA | O2D-CGD-CBD | 4.90 | 119.98 | 111.27 |
| 12 | aB | 935 | CLA | C3D-C2D-C1D | -4.90 | 99.14 | 105.83 |
| 12 | aB | 937 | CLA | C3D-C2D-C1D | -4.90 | 99.14 | 105.83 |
| 12 | cA | 820 | CLA | CHD-C1D-ND | -4.90 | 119.95 | 124.45 |
| 12 | cA | 809 | CLA | C3D-C2D-C1D | -4.90 | 99.15 | 105.83 |
| 12 | bB | 937 | CLA | C3D-C2D-C1D | -4.90 | 99.15 | 105.83 |
| 12 | aA | 839 | CLA | CHD-C1D-ND | -4.90 | 119.95 | 124.45 |
| 12 | bA | 842 | CLA | O2D-CGD-CBD | 4.89 | 119.97 | 111.27 |
| 12 | cL | 202 | CLA | C3D-C2D-C1D | -4.89 | 99.15 | 105.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 842 | CLA | O2D-CGD-CBD | 4.89 | 119.96 | 111.27 |
| 12 | bA | 809 | CLA | C2C-C1C-NC | 4.89 | 114.55 | 109.97 |
| 12 | bL | 202 | CLA | C3D-C2D-C1D | -4.89 | 99.16 | 105.83 |
| 12 | cB | 915 | CLA | C3D-C2D-C1D | -4.88 | 99.17 | 105.83 |
| 12 | cA | 835 | CLA | CHD-C1D-ND | -4.88 | 119.97 | 124.45 |
| 12 | cA | 853 | CLA | C3C-C4C-NC | 4.88 | 116.05 | 110.57 |
| 12 | aA | 809 | CLA | C2C-C1C-NC | 4.88 | 114.54 | 109.97 |
| 12 | bB | 929 | CLA | C3D-C2D-C1D | -4.88 | 99.18 | 105.83 |
| 12 | bA | 839 | CLA | CHD-C1D-ND | -4.87 | 119.97 | 124.45 |
| 12 | aA | 830 | CLA | CHD-C4C-C3C | -4.87 | 117.68 | 124.84 |
| 12 | cB | 937 | CLA | C3D-C2D-C1D | -4.87 | 99.18 | 105.83 |
| 12 | cB | 935 | CLA | C3C-C4C-NC | 4.87 | 116.03 | 110.57 |
| 12 | bA | 830 | CLA | CHD-C4C-C3C | -4.87 | 117.68 | 124.84 |
| 12 | cB | 929 | CLA | C3D-C2D-C1D | -4.87 | 99.18 | 105.83 |
| 12 | cA | 830 | CLA | CHD-C4C-C3C | -4.87 | 117.68 | 124.84 |
| 12 | aA | 842 | CLA | O2D-CGD-CBD | 4.87 | 119.92 | 111.27 |
| 12 | cB | 905 | CLA | C2C-C1C-NC | 4.87 | 114.53 | 109.97 |
| 12 | bA | 835 | CLA | CHD-C1D-ND | -4.87 | 119.98 | 124.45 |
| 12 | cA | 839 | CLA | CHD-C1D-ND | -4.86 | 119.98 | 124.45 |
| 12 | aA | 827 | CLA | C2C-C1C-NC | 4.86 | 114.53 | 109.97 |
| 12 | bB | 935 | CLA | C3C-C4C-NC | 4.86 | 116.03 | 110.57 |
| 12 | aA | 814 | CLA | O2D-CGD-CBD | 4.86 | 119.91 | 111.27 |
| 12 | aB | 926 | CLA | C3C-C4C-NC | 4.86 | 116.02 | 110.57 |
| 12 | aA | 834 | CLA | CHD-C4C-C3C | -4.86 | 117.69 | 124.84 |
| 12 | cB | 935 | CLA | C3D-C2D-C1D | -4.86 | 99.20 | 105.83 |
| 12 | bB | 935 | CLA | C3D-C2D-C1D | -4.86 | 99.20 | 105.83 |
| 12 | bA | 829 | CLA | CHD-C1D-ND | -4.86 | 119.99 | 124.45 |
| 12 | bB | 905 | CLA | C2C-C1C-NC | 4.85 | 114.52 | 109.97 |
| 12 | bA | 836 | CLA | CHD-C4C-C3C | -4.85 | 117.71 | 124.84 |
| 12 | aL | 202 | CLA | C3D-C2D-C1D | -4.85 | 99.21 | 105.83 |
| 12 | bA | 814 | CLA | O2D-CGD-CBD | 4.84 | 119.88 | 111.27 |
| 12 | aB | 916 | CLA | C3D-C2D-C1D | -4.84 | 99.22 | 105.83 |
| 12 | bB | 934 | CLA | C4A-NA-C1A | -4.84 | 104.53 | 106.71 |
| 12 | aA | 819 | CLA | CBA-CAA-C2A | 4.83 | 128.13 | 113.86 |
| 12 | bA | 819 | CLA | CBA-CAA-C2A | 4.83 | 128.12 | 113.86 |
| 12 | cA | 814 | CLA | O2D-CGD-CBD | 4.83 | 119.85 | 111.27 |
| 12 | bB | 916 | CLA | C3D-C2D-C1D | -4.83 | 99.24 | 105.83 |
| 12 | cB | 936 | CLA | C3D-C2D-C1D | -4.82 | 99.25 | 105.83 |
| 12 | bB | 936 | CLA | C3D-C2D-C1D | -4.82 | 99.25 | 105.83 |
| 12 | bA | 833 | CLA | C3D-C2D-C1D | -4.82 | 99.25 | 105.83 |
| 12 | bB | 949 | CLA | C3D-C2D-C1D | -4.82 | 99.25 | 105.83 |
| 12 | aB | 905 | CLA | C2C-C1C-NC | 4.82 | 114.49 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 819 | CLA | CBA-CAA-C2A | 4.82 | 128.09 | 113.86 |
| 12 | cA | 836 | CLA | CHD-C4C-C3C | -4.82 | 117.76 | 124.84 |
| 12 | aA | 812 | CLA | C3D-C2D-C1D | -4.82 | 99.26 | 105.83 |
| 12 | bB | 933 | CLA | CMD-C2D-C1D | 4.82 | 133.20 | 124.71 |
| 12 | aA | 835 | CLA | CHD-C1D-ND | -4.82 | 120.03 | 124.45 |
| 12 | cB | 926 | CLA | C3C-C4C-NC | 4.82 | 115.97 | 110.57 |
| 12 | cB | 916 | CLA | C3D-C2D-C1D | -4.81 | 99.26 | 105.83 |
| 12 | aB | 936 | CLA | C3D-C2D-C1D | -4.81 | 99.26 | 105.83 |
| 12 | cA | 827 | CLA | C2C-C1C-NC | 4.81 | 114.48 | 109.97 |
| 12 | cA | 832 | CLA | C3D-C2D-C1D | -4.81 | 99.27 | 105.83 |
| 12 | bA | 824 | CLA | CHD-C4C-C3C | -4.81 | 117.77 | 124.84 |
| 12 | cA | 833 | CLA | C3D-C2D-C1D | -4.81 | 99.27 | 105.83 |
| 12 | bA | 834 | CLA | C4A-NA-C1A | -4.81 | 104.55 | 106.71 |
| 12 | aL | 204 | CLA | C3D-C2D-C1D | -4.81 | 99.27 | 105.83 |
| 12 | bA | 822 | CLA | C2C-C1C-NC | 4.80 | 114.47 | 109.97 |
| 12 | cA | 824 | CLA | CHD-C4C-C3C | -4.80 | 117.78 | 124.84 |
| 12 | bA | 808 | CLA | O2D-CGD-CBD | 4.80 | 119.80 | 111.27 |
| 12 | aA | 802 | CLA | CAA-C2A-C3A | -4.80 | 99.63 | 112.78 |
| 12 | bB | 910 | CLA | C4A-NA-C1A | -4.80 | 104.55 | 106.71 |
| 12 | bA | 825 | CLA | C3D-C2D-C1D | -4.80 | 99.29 | 105.83 |
| 12 | cB | 949 | CLA | C3D-C2D-C1D | -4.79 | 99.29 | 105.83 |
| 12 | aA | 833 | CLA | C3D-C2D-C1D | -4.79 | 99.29 | 105.83 |
| 12 | aB | 901 | CLA | C3C-C4C-NC | 4.79 | 115.94 | 110.57 |
| 12 | bA | 827 | CLA | C2C-C1C-NC | 4.79 | 114.46 | 109.97 |
| 12 | cL | 203 | CLA | CMD-C2D-C1D | 4.79 | 133.15 | 124.71 |
| 12 | cA | 812 | CLA | C3D-C2D-C1D | -4.79 | 99.30 | 105.83 |
| 12 | aL | 203 | CLA | CMD-C2D-C1D | 4.78 | 133.15 | 124.71 |
| 12 | cL | 204 | CLA | C3D-C2D-C1D | -4.78 | 99.30 | 105.83 |
| 12 | cA | 808 | CLA | O2D-CGD-CBD | 4.78 | 119.77 | 111.27 |
| 11 | bA | 801 | CL0 | CAA-C2A-C3A | -4.78 | 99.68 | 112.78 |
| 12 | aA | 832 | CLA | C3D-C2D-C1D | -4.78 | 99.30 | 105.83 |
| 12 | aA | 836 | CLA | CHD-C4C-C3C | -4.78 | 117.81 | 124.84 |
| 12 | bA | 812 | CLA | C3D-C2D-C1D | -4.78 | 99.31 | 105.83 |
| 12 | bA | 802 | CLA | CAA-C2A-C3A | -4.78 | 99.69 | 112.78 |
| 12 | bL | 204 | CLA | C3D-C2D-C1D | -4.78 | 99.31 | 105.83 |
| 12 | aA | 825 | CLA | C3D-C2D-C1D | -4.78 | 99.31 | 105.83 |
| 12 | aA | 824 | CLA | CHD-C4C-C3C | -4.78 | 117.82 | 124.84 |
| 12 | aB | 949 | CLA | C3D-C2D-C1D | -4.78 | 99.31 | 105.83 |
| 12 | cA | 802 | CLA | CAA-C2A-C3A | -4.78 | 99.70 | 112.78 |
| 11 | cA | 801 | CL0 | CAA-C2A-C3A | -4.77 | 99.70 | 112.78 |
| 12 | bA | 832 | CLA | C3D-C2D-C1D | -4.77 | 99.32 | 105.83 |
| 11 | aA | 801 | CL0 | CAA-C2A-C3A | -4.77 | 99.71 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 933 | CLA | CMD-C2D-C1D | 4.77 | 133.12 | 124.71 |
| 12 | bB | 949 | CLA | C2C-C1C-NC | 4.77 | 114.44 | 109.97 |
| 12 | aB | 934 | CLA | C4A-NA-C1A | -4.77 | 104.56 | 106.71 |
| 12 | cA | 825 | CLA | C3D-C2D-C1D | -4.77 | 99.32 | 105.83 |
| 12 | cA | 837 | CLA | CHD-C1D-ND | -4.77 | 120.07 | 124.45 |
| 12 | bL | 203 | CLA | CMD-C2D-C1D | 4.77 | 133.11 | 124.71 |
| 12 | cB | 933 | CLA | CMD-C2D-C1D | 4.77 | 133.11 | 124.71 |
| 12 | aB | 939 | CLA | C3D-C2D-C1D | -4.76 | 99.33 | 105.83 |
| 12 | aB | 910 | CLA | C4A-NA-C1A | -4.76 | 104.56 | 106.71 |
| 12 | cB | 928 | CLA | CHD-C1D-ND | -4.76 | 120.08 | 124.45 |
| 12 | aA | 822 | CLA | C2C-C1C-NC | 4.76 | 114.43 | 109.97 |
| 12 | bA | 803 | CLA | C2C-C1C-NC | 4.76 | 114.43 | 109.97 |
| 12 | cA | 822 | CLA | C2C-C1C-NC | 4.76 | 114.43 | 109.97 |
| 12 | aA | 837 | CLA | CHD-C1D-ND | -4.76 | 120.08 | 124.45 |
| 12 | cA | 803 | CLA | C2C-C1C-NC | 4.76 | 114.43 | 109.97 |
| 12 | bB | 939 | CLA | C3D-C2D-C1D | -4.76 | 99.34 | 105.83 |
| 12 | aA | 805 | CLA | C3D-C2D-C1D | -4.76 | 99.34 | 105.83 |
| 12 | bA | 802 | CLA | C3D-C2D-C1D | -4.76 | 99.34 | 105.83 |
| 12 | cB | 901 | CLA | C3C-C4C-NC | 4.76 | 115.90 | 110.57 |
| 12 | cA | 805 | CLA | C3D-C2D-C1D | -4.76 | 99.34 | 105.83 |
| 12 | bA | 805 | CLA | C3D-C2D-C1D | -4.75 | 99.34 | 105.83 |
| 12 | aA | 808 | CLA | O2D-CGD-CBD | 4.75 | 119.72 | 111.27 |
| 12 | cA | 813 | CLA | C4A-NA-C1A | -4.75 | 104.57 | 106.71 |
| 12 | cB | 919 | CLA | C3D-C2D-C1D | -4.75 | 99.35 | 105.83 |
| 12 | cA | 817 | CLA | C3D-C2D-C1D | -4.74 | 99.36 | 105.83 |
| 12 | aA | 834 | CLA | C4A-NA-C1A | -4.74 | 104.57 | 106.71 |
| 12 | aB | 928 | CLA | CHD-C1D-ND | -4.74 | 120.10 | 124.45 |
| 12 | bB | 939 | CLA | C1C-C2C-C3C | -4.74 | 101.97 | 106.96 |
| 12 | bB | 928 | CLA | CHD-C1D-ND | -4.74 | 120.10 | 124.45 |
| 12 | bA | 837 | CLA | CHD-C1D-ND | -4.74 | 120.10 | 124.45 |
| 12 | cB | 939 | CLA | C3D-C2D-C1D | -4.73 | 99.37 | 105.83 |
| 12 | bA | 818 | CLA | C3D-C2D-C1D | -4.73 | 99.37 | 105.83 |
| 12 | aA | 813 | CLA | C4A-NA-C1A | -4.73 | 104.58 | 106.71 |
| 12 | cA | 802 | CLA | C3D-C2D-C1D | -4.73 | 99.38 | 105.83 |
| 12 | cB | 939 | CLA | C1C-C2C-C3C | -4.73 | 101.99 | 106.96 |
| 12 | cB | 915 | CLA | O2D-CGD-CBD | 4.73 | 119.67 | 111.27 |
| 12 | aA | 802 | CLA | C3D-C2D-C1D | -4.73 | 99.38 | 105.83 |
| 12 | aB | 939 | CLA | C1C-C2C-C3C | -4.72 | 101.99 | 106.96 |
| 12 | bB | 919 | CLA | C3D-C2D-C1D | -4.72 | 99.38 | 105.83 |
| 12 | cA | 818 | CLA | C3D-C2D-C1D | -4.72 | 99.38 | 105.83 |
| 12 | cA | 834 | CLA | C4A-NA-C1A | -4.72 | 104.58 | 106.71 |
| 12 | aA | 803 | CLA | C2C-C1C-NC | 4.72 | 114.39 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 910 | CLA | C4A-NA-C1A | -4.72 | 104.58 | 106.71 |
| 12 | bB | 915 | CLA | O2D-CGD-CBD | 4.72 | 119.66 | 111.27 |
| 12 | bB | 914 | CLA | C3C-C4C-NC | 4.72 | 115.86 | 110.57 |
| 12 | aB | 919 | CLA | C3D-C2D-C1D | -4.72 | 99.39 | 105.83 |
| 12 | aB | 949 | CLA | C2C-C1C-NC | 4.72 | 114.39 | 109.97 |
| 12 | aB | 914 | CLA | C3C-C4C-NC | 4.72 | 115.86 | 110.57 |
| 12 | aA | 818 | CLA | C3D-C2D-C1D | -4.71 | 99.40 | 105.83 |
| 12 | bB | 901 | CLA | C3C-C4C-NC | 4.71 | 115.86 | 110.57 |
| 12 | aB | 915 | CLA | O2D-CGD-CBD | 4.71 | 119.64 | 111.27 |
| 12 | bL | 203 | CLA | C2C-C1C-NC | 4.71 | 114.39 | 109.97 |
| 12 | bB | 904 | CLA | C3D-C2D-C1D | -4.71 | 99.40 | 105.83 |
| 12 | cA | 843 | CLA | CMD-C2D-C1D | 4.71 | 133.01 | 124.71 |
| 12 | cB | 912 | CLA | C3C-C4C-NC | 4.71 | 115.85 | 110.57 |
| 12 | aA | 817 | CLA | C3D-C2D-C1D | -4.70 | 99.41 | 105.83 |
| 12 | aA | 828 | CLA | C3C-C4C-NC | 4.70 | 115.84 | 110.57 |
| 12 | aL | 203 | CLA | C2C-C1C-NC | 4.70 | 114.38 | 109.97 |
| 12 | cB | 949 | CLA | C2C-C1C-NC | 4.70 | 114.38 | 109.97 |
| 12 | aB | 932 | CLA | C2C-C1C-NC | 4.70 | 114.37 | 109.97 |
| 12 | aA | 806 | CLA | C3D-C2D-C1D | -4.70 | 99.42 | 105.83 |
| 12 | aA | 843 | CLA | CMD-C2D-C1D | 4.70 | 132.99 | 124.71 |
| 12 | bA | 824 | CLA | C3D-C2D-C1D | -4.70 | 99.42 | 105.83 |
| 12 | aB | 904 | CLA | C3D-C2D-C1D | -4.69 | 99.43 | 105.83 |
| 12 | cB | 904 | CLA | C3D-C2D-C1D | -4.69 | 99.43 | 105.83 |
| 12 | bB | 932 | CLA | C2C-C1C-NC | 4.69 | 114.36 | 109.97 |
| 12 | bA | 813 | CLA | C4A-NA-C1A | -4.69 | 104.60 | 106.71 |
| 12 | cB | 914 | CLA | C3C-C4C-NC | 4.68 | 115.83 | 110.57 |
| 12 | cA | 806 | CLA | C3D-C2D-C1D | -4.68 | 99.44 | 105.83 |
| 12 | cB | 906 | CLA | C3D-C2D-C1D | -4.68 | 99.44 | 105.83 |
| 12 | cL | 203 | CLA | C2C-C1C-NC | 4.68 | 114.36 | 109.97 |
| 12 | bB | 909 | CLA | C3C-C4C-NC | 4.68 | 115.82 | 110.57 |
| 12 | aA | 843 | CLA | CHD-C1D-ND | -4.68 | 120.15 | 124.45 |
| 12 | aB | 908 | CLA | CHD-C1D-ND | -4.68 | 120.15 | 124.45 |
| 12 | cB | 928 | CLA | C4A-NA-C1A | -4.68 | 104.60 | 106.71 |
| 12 | bA | 806 | CLA | C3D-C2D-C1D | -4.68 | 99.45 | 105.83 |
| 12 | aB | 912 | CLA | C3C-C4C-NC | 4.68 | 115.82 | 110.57 |
| 12 | bB | 912 | CLA | C3C-C4C-NC | 4.68 | 115.81 | 110.57 |
| 12 | cB | 909 | CLA | C3C-C4C-NC | 4.68 | 115.81 | 110.57 |
| 12 | bB | 925 | CLA | C3C-C4C-NC | 4.68 | 115.81 | 110.57 |
| 12 | bB | 906 | CLA | C3D-C2D-C1D | -4.67 | 99.45 | 105.83 |
| 12 | aB | 926 | CLA | C2C-C1C-NC | 4.67 | 114.35 | 109.97 |
| 12 | aA | 824 | CLA | C3D-C2D-C1D | -4.67 | 99.45 | 105.83 |
| 12 | bA | 843 | CLA | CMD-C2D-C1D | 4.67 | 132.95 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 813 | CLA | CHD-C1D-ND | -4.67 | 120.16 | 124.45 |
| 12 | bB | 926 | CLA | C2C-C1C-NC | 4.67 | 114.35 | 109.97 |
| 12 | bA | 817 | CLA | C3D-C2D-C1D | -4.67 | 99.46 | 105.83 |
| 12 | cA | 824 | CLA | C3D-C2D-C1D | -4.67 | 99.46 | 105.83 |
| 12 | aB | 906 | CLA | C3D-C2D-C1D | -4.67 | 99.46 | 105.83 |
| 12 | cB | 926 | CLA | C2C-C1C-NC | 4.66 | 114.34 | 109.97 |
| 12 | cB | 932 | CLA | C2C-C1C-NC | 4.66 | 114.34 | 109.97 |
| 12 | bB | 923 | CLA | C3C-C4C-NC | 4.66 | 115.80 | 110.57 |
| 12 | aA | 828 | CLA | C3D-C2D-C1D | -4.66 | 99.47 | 105.83 |
| 12 | aB | 909 | CLA | C3C-C4C-NC | 4.66 | 115.80 | 110.57 |
| 12 | cA | 828 | CLA | C3C-C4C-NC | 4.66 | 115.80 | 110.57 |
| 12 | cA | 828 | CLA | C3D-C2D-C1D | -4.66 | 99.47 | 105.83 |
| 12 | cA | 813 | CLA | CHD-C1D-ND | -4.66 | 120.17 | 124.45 |
| 12 | bB | 931 | CLA | C2C-C1C-NC | 4.65 | 114.33 | 109.97 |
| 12 | cB | 925 | CLA | C3C-C4C-NC | 4.65 | 115.79 | 110.57 |
| 12 | bA | 823 | CLA | C3D-C2D-C1D | -4.65 | 99.48 | 105.83 |
| 12 | aA | 807 | CLA | CAA-C2A-C3A | -4.65 | 100.04 | 112.78 |
| 12 | cA | 807 | CLA | CAA-C2A-C3A | -4.65 | 100.04 | 112.78 |
| 12 | aA | 813 | CLA | CHD-C1D-ND | -4.65 | 120.18 | 124.45 |
| 12 | aB | 925 | CLA | C3C-C4C-NC | 4.65 | 115.78 | 110.57 |
| 12 | aA | 823 | CLA | C3D-C2D-C1D | -4.65 | 99.49 | 105.83 |
| 11 | aA | 801 | CL0 | CMD-C2D-C1D | 4.64 | 132.90 | 124.71 |
| 12 | aA | 819 | CLA | C3D-C2D-C1D | -4.64 | 99.50 | 105.83 |
| 12 | bA | 828 | CLA | C3D-C2D-C1D | -4.64 | 99.50 | 105.83 |
| 12 | aA | 830 | CLA | C3D-C2D-C1D | -4.64 | 99.50 | 105.83 |
| 12 | aB | 932 | CLA | C3D-C2D-C1D | -4.64 | 99.50 | 105.83 |
| 12 | bB | 909 | CLA | C3D-C2D-C1D | -4.64 | 99.50 | 105.83 |
| 12 | cB | 932 | CLA | C3D-C2D-C1D | -4.64 | 99.50 | 105.83 |
| 12 | aA | 821 | CLA | C4A-NA-C1A | -4.64 | 104.62 | 106.71 |
| 12 | cA | 827 | CLA | C4A-NA-C1A | -4.64 | 104.62 | 106.71 |
| 12 | aB | 931 | CLA | C2C-C1C-NC | 4.64 | 114.32 | 109.97 |
| 12 | bA | 819 | CLA | C3D-C2D-C1D | -4.64 | 99.50 | 105.83 |
| 12 | cB | 923 | CLA | C3C-C4C-NC | 4.63 | 115.77 | 110.57 |
| 12 | cA | 843 | CLA | CHD-C1D-ND | -4.63 | 120.20 | 124.45 |
| 12 | cB | 908 | CLA | CHD-C1D-ND | -4.63 | 120.20 | 124.45 |
| 12 | bB | 908 | CLA | CHD-C1D-ND | -4.63 | 120.20 | 124.45 |
| 12 | cA | 823 | CLA | C3D-C2D-C1D | -4.63 | 99.51 | 105.83 |
| 12 | bB | 932 | CLA | C3D-C2D-C1D | -4.63 | 99.51 | 105.83 |
| 12 | bA | 807 | CLA | CAA-C2A-C3A | -4.63 | 100.10 | 112.78 |
| 11 | bA | 801 | CL0 | CMD-C2D-C1D | 4.63 | 132.87 | 124.71 |
| 12 | cB | 931 | CLA | C2C-C1C-NC | 4.63 | 114.31 | 109.97 |
| 12 | bA | 828 | CLA | C3C-C4C-NC | 4.63 | 115.76 | 110.57 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 830 | CLA | C3D-C2D-C1D | -4.63 | 99.51 | 105.83 |
| 12 | bA | 814 | CLA | C3D-C2D-C1D | -4.62 | 99.52 | 105.83 |
| 12 | aB | 923 | CLA | C3C-C4C-NC | 4.62 | 115.76 | 110.57 |
| 12 | cA | 813 | CLA | CMB-C2B-C3B | 4.62 | 133.32 | 124.68 |
| 12 | bB | 926 | CLA | C3D-C2D-C1D | -4.62 | 99.53 | 105.83 |
| 12 | aA | 814 | CLA | C3D-C2D-C1D | -4.62 | 99.53 | 105.83 |
| 12 | aB | 927 | CLA | CMD-C2D-C1D | 4.62 | 132.85 | 124.71 |
| 12 | aB | 926 | CLA | CHD-C1D-ND | -4.62 | 120.21 | 124.45 |
| 12 | aA | 827 | CLA | C4A-NA-C1A | -4.62 | 104.63 | 106.71 |
| 12 | cA | 821 | CLA | C4A-NA-C1A | -4.62 | 104.63 | 106.71 |
| 11 | cA | 801 | CL0 | CMD-C2D-C1D | 4.62 | 132.85 | 124.71 |
| 12 | cA | 819 | CLA | C3D-C2D-C1D | -4.62 | 99.53 | 105.83 |
| 12 | bB | 928 | CLA | C4A-NA-C1A | -4.62 | 104.63 | 106.71 |
| 12 | cB | 930 | CLA | C3D-C2D-C1D | -4.62 | 99.53 | 105.83 |
| 12 | bA | 841 | CLA | C3D-C2D-C1D | -4.61 | 99.54 | 105.83 |
| 12 | bB | 906 | CLA | O2D-CGD-CBD | 4.61 | 119.46 | 111.27 |
| 12 | bA | 830 | CLA | C3D-C2D-C1D | -4.61 | 99.54 | 105.83 |
| 12 | cA | 814 | CLA | C3D-C2D-C1D | -4.61 | 99.54 | 105.83 |
| 12 | cB | 901 | CLA | CHD-C1D-ND | -4.61 | 120.22 | 124.45 |
| 12 | aA | 813 | CLA | CMB-C2B-C3B | 4.61 | 133.30 | 124.68 |
| 12 | cB | 926 | CLA | CHD-C1D-ND | -4.60 | 120.22 | 124.45 |
| 12 | bB | 927 | CLA | C3C-C4C-NC | 4.60 | 115.73 | 110.57 |
| 12 | aB | 927 | CLA | C3C-C4C-NC | 4.60 | 115.73 | 110.57 |
| 12 | cA | 827 | CLA | C3C-C4C-NC | 4.60 | 115.73 | 110.57 |
| 12 | cB | 926 | CLA | C3D-C2D-C1D | -4.60 | 99.55 | 105.83 |
| 12 | cB | 927 | CLA | CMD-C2D-C1D | 4.60 | 132.81 | 124.71 |
| 12 | bA | 843 | CLA | CHD-C1D-ND | -4.60 | 120.23 | 124.45 |
| 12 | aB | 926 | CLA | C3D-C2D-C1D | -4.60 | 99.56 | 105.83 |
| 12 | aA | 841 | CLA | C3D-C2D-C1D | -4.60 | 99.56 | 105.83 |
| 12 | aB | 928 | CLA | C3C-C4C-NC | 4.59 | 115.72 | 110.57 |
| 12 | cB | 929 | CLA | C3C-C4C-NC | 4.59 | 115.72 | 110.57 |
| 12 | bB | 901 | CLA | CHD-C1D-ND | -4.59 | 120.23 | 124.45 |
| 12 | cA | 816 | CLA | CHD-C1D-ND | -4.59 | 120.23 | 124.45 |
| 12 | bA | 827 | CLA | C3C-C4C-NC | 4.59 | 115.72 | 110.57 |
| 12 | cB | 909 | CLA | C3D-C2D-C1D | -4.59 | 99.56 | 105.83 |
| 12 | bA | 813 | CLA | CMB-C2B-C3B | 4.59 | 133.27 | 124.68 |
| 12 | aB | 909 | CLA | C3D-C2D-C1D | -4.59 | 99.56 | 105.83 |
| 12 | bB | 927 | CLA | CMD-C2D-C1D | 4.59 | 132.81 | 124.71 |
| 12 | aB | 917 | CLA | O2D-CGD-CBD | 4.59 | 119.42 | 111.27 |
| 12 | bB | 926 | CLA | CHD-C1D-ND | -4.59 | 120.24 | 124.45 |
| 12 | bA | 827 | CLA | C4A-NA-C1A | -4.58 | 104.64 | 106.71 |
| 12 | cB | 906 | CLA | O2D-CGD-CBD | 4.58 | 119.41 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 906 | CLA | O2D-CGD-CBD | 4.58 | 119.41 | 111.27 |
| 12 | aA | 827 | CLA | C3C-C4C-NC | 4.58 | 115.71 | 110.57 |
| 12 | bB | 930 | CLA | C3D-C2D-C1D | -4.58 | 99.58 | 105.83 |
| 12 | cB | 917 | CLA | O2D-CGD-CBD | 4.58 | 119.41 | 111.27 |
| 12 | cA | 841 | CLA | C3D-C2D-C1D | -4.58 | 99.58 | 105.83 |
| 12 | cB | 927 | CLA | C3C-C4C-NC | 4.58 | 115.70 | 110.57 |
| 12 | cA | 841 | CLA | C4A-NA-C1A | -4.58 | 104.65 | 106.71 |
| 12 | aB | 930 | CLA | C3D-C2D-C1D | -4.57 | 99.59 | 105.83 |
| 12 | bA | 841 | CLA | C4A-NA-C1A | -4.57 | 104.65 | 106.71 |
| 12 | bA | 816 | CLA | CHD-C1D-ND | -4.57 | 120.25 | 124.45 |
| 12 | cF | 202 | CLA | C4A-NA-C1A | -4.57 | 104.65 | 106.71 |
| 12 | bF | 202 | CLA | C3D-C2D-C1D | -4.57 | 99.60 | 105.83 |
| 12 | aA | 829 | CLA | C3D-C2D-C1D | -4.57 | 99.60 | 105.83 |
| 12 | cB | 928 | CLA | C3C-C4C-NC | 4.56 | 115.69 | 110.57 |
| 12 | bB | 917 | CLA | O2D-CGD-CBD | 4.56 | 119.38 | 111.27 |
| 12 | aB | 928 | CLA | C4A-NA-C1A | -4.56 | 104.66 | 106.71 |
| 12 | bB | 928 | CLA | C3C-C4C-NC | 4.56 | 115.69 | 110.57 |
| 12 | cA | 825 | CLA | C3C-C4C-NC | 4.56 | 115.69 | 110.57 |
| 12 | bA | 821 | CLA | C4A-NA-C1A | -4.56 | 104.66 | 106.71 |
| 12 | aA | 825 | CLA | C3C-C4C-NC | 4.56 | 115.68 | 110.57 |
| 12 | cB | 924 | CLA | C3D-C2D-C1D | -4.56 | 99.61 | 105.83 |
| 12 | aA | 802 | CLA | C4A-NA-C1A | -4.56 | 104.66 | 106.71 |
| 12 | aA | 842 | CLA | C3C-C4C-NC | 4.56 | 115.68 | 110.57 |
| 12 | cA | 836 | CLA | C1C-C2C-C3C | -4.56 | 102.17 | 106.96 |
| 12 | bB | 931 | CLA | C4A-NA-C1A | -4.56 | 104.66 | 106.71 |
| 12 | cB | 912 | CLA | C3D-C2D-C1D | -4.55 | 99.62 | 105.83 |
| 12 | bA | 829 | CLA | C3D-C2D-C1D | -4.55 | 99.62 | 105.83 |
| 11 | aA | 801 | CL0 | O2D-CGD-CBD | 4.55 | 119.35 | 111.27 |
| 12 | aA | 826 | CLA | CAA-C2A-C3A | -4.55 | 100.32 | 112.78 |
| 12 | cA | 842 | CLA | C3C-C4C-NC | 4.55 | 115.67 | 110.57 |
| 12 | aF | 202 | CLA | C3D-C2D-C1D | -4.55 | 99.62 | 105.83 |
| 12 | cA | 829 | CLA | C3D-C2D-C1D | -4.55 | 99.62 | 105.83 |
| 12 | cA | 826 | CLA | CAA-C2A-C3A | -4.55 | 100.33 | 112.78 |
| 12 | aB | 912 | CLA | C3D-C2D-C1D | -4.55 | 99.63 | 105.83 |
| 11 | cA | 801 | CL0 | O2D-CGD-CBD | 4.55 | 119.34 | 111.27 |
| 12 | bB | 912 | CLA | C3D-C2D-C1D | -4.55 | 99.63 | 105.83 |
| 12 | bA | 826 | CLA | CAA-C2A-C3A | -4.54 | 100.34 | 112.78 |
| 12 | cB | 917 | CLA | C1C-C2C-C3C | -4.54 | 102.18 | 106.96 |
| 12 | aA | 816 | CLA | CHD-C1D-ND | -4.54 | 120.28 | 124.45 |
| 12 | cF | 202 | CLA | C3D-C2D-C1D | -4.54 | 99.63 | 105.83 |
| 12 | aB | 933 | CLA | CHD-C1D-ND | -4.54 | 120.28 | 124.45 |
| 12 | aA | 813 | CLA | C3C-C4C-NC | 4.54 | 115.66 | 110.57 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 924 | CLA | C3D-C2D-C1D | -4.53 | 99.64 | 105.83 |
| 12 | aB | 924 | CLA | C3D-C2D-C1D | -4.53 | 99.64 | 105.83 |
| 12 | bB | 933 | CLA | CHD-C1D-ND | -4.53 | 120.29 | 124.45 |
| 12 | cB | 933 | CLA | CHD-C1D-ND | -4.53 | 120.30 | 124.45 |
| 12 | aB | 901 | CLA | CHD-C1D-ND | -4.52 | 120.30 | 124.45 |
| 12 | aB | 917 | CLA | C1C-C2C-C3C | -4.52 | 102.20 | 106.96 |
| 11 | bA | 801 | CL0 | O2D-CGD-CBD | 4.52 | 119.30 | 111.27 |
| 12 | bA | 813 | CLA | C3C-C4C-NC | 4.52 | 115.64 | 110.57 |
| 12 | bB | 917 | CLA | C1C-C2C-C3C | -4.51 | 102.21 | 106.96 |
| 12 | aB | 929 | CLA | C3C-C4C-NC | 4.51 | 115.63 | 110.57 |
| 12 | aA | 841 | CLA | C4A-NA-C1A | -4.51 | 104.68 | 106.71 |
| 12 | bA | 803 | CLA | C3D-C2D-C1D | -4.51 | 99.68 | 105.83 |
| 12 | aA | 839 | CLA | C3C-C4C-NC | 4.50 | 115.62 | 110.57 |
| 12 | aB | 932 | CLA | C3D-C4D-ND | 4.50 | 117.52 | 110.24 |
| 12 | bA | 825 | CLA | C3C-C4C-NC | 4.50 | 115.62 | 110.57 |
| 12 | aB | 926 | CLA | CMD-C2D-C1D | 4.50 | 132.64 | 124.71 |
| 12 | bB | 915 | CLA | C3C-C4C-NC | 4.50 | 115.62 | 110.57 |
| 12 | bA | 836 | CLA | C1C-C2C-C3C | -4.50 | 102.23 | 106.96 |
| 12 | bB | 929 | CLA | C3C-C4C-NC | 4.50 | 115.61 | 110.57 |
| 12 | bB | 933 | CLA | C3D-C2D-C1D | -4.50 | 99.69 | 105.83 |
| 12 | bA | 842 | CLA | C3C-C4C-NC | 4.50 | 115.61 | 110.57 |
| 12 | cB | 915 | CLA | C3C-C4C-NC | 4.49 | 115.61 | 110.57 |
| 12 | bB | 932 | CLA | C3D-C4D-ND | 4.49 | 117.50 | 110.24 |
| 12 | cA | 803 | CLA | C3D-C2D-C1D | -4.49 | 99.71 | 105.83 |
| 12 | aA | 820 | CLA | C3D-C2D-C1D | -4.49 | 99.71 | 105.83 |
| 12 | bA | 839 | CLA | C3C-C4C-NC | 4.49 | 115.60 | 110.57 |
| 12 | aA | 803 | CLA | C3D-C2D-C1D | -4.49 | 99.71 | 105.83 |
| 12 | aB | 933 | CLA | C3D-C2D-C1D | -4.49 | 99.71 | 105.83 |
| 12 | cA | 813 | CLA | C3C-C4C-NC | 4.48 | 115.60 | 110.57 |
| 12 | aA | 836 | CLA | C1C-C2C-C3C | -4.48 | 102.24 | 106.96 |
| 12 | bA | 820 | CLA | C3D-C2D-C1D | -4.48 | 99.71 | 105.83 |
| 12 | bB | 926 | CLA | CMD-C2D-C1D | 4.48 | 132.61 | 124.71 |
| 12 | cB | 910 | CLA | C3D-C2D-C1D | -4.48 | 99.71 | 105.83 |
| 12 | cA | 839 | CLA | C3C-C4C-NC | 4.48 | 115.60 | 110.57 |
| 12 | bB | 916 | CLA | O2D-CGD-CBD | 4.48 | 119.23 | 111.27 |
| 12 | aB | 935 | CLA | CMB-C2B-C3B | 4.48 | 133.06 | 124.68 |
| 12 | aB | 910 | CLA | C3D-C2D-C1D | -4.48 | 99.72 | 105.83 |
| 12 | bB | 935 | CLA | CMB-C2B-C3B | 4.48 | 133.06 | 124.68 |
| 12 | aA | 816 | CLA | C3C-C4C-NC | 4.48 | 115.59 | 110.57 |
| 12 | cA | 843 | CLA | C3D-C2D-C1D | -4.48 | 99.72 | 105.83 |
| 12 | cB | 935 | CLA | CMB-C2B-C3B | 4.48 | 133.05 | 124.68 |
| 12 | bA | 817 | CLA | C4A-NA-C1A | -4.47 | 104.70 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 933 | CLA | C3D-C2D-C1D | -4.47 | 99.73 | 105.83 |
| 12 | cB | 932 | CLA | C3D-C4D-ND | 4.47 | 117.47 | 110.24 |
| 12 | bF | 202 | CLA | C4A-NA-C1A | -4.47 | 104.70 | 106.71 |
| 12 | cB | 931 | CLA | C4A-NA-C1A | -4.47 | 104.70 | 106.71 |
| 12 | bA | 816 | CLA | C3C-C4C-NC | 4.47 | 115.58 | 110.57 |
| 12 | bB | 919 | CLA | C4A-NA-C1A | -4.46 | 104.70 | 106.71 |
| 12 | aB | 915 | CLA | C3C-C4C-NC | 4.46 | 115.58 | 110.57 |
| 12 | cA | 817 | CLA | C4A-NA-C1A | -4.46 | 104.70 | 106.71 |
| 12 | aA | 843 | CLA | CAC-C3C-C4C | 4.46 | 130.59 | 124.81 |
| 12 | bB | 910 | CLA | C3D-C2D-C1D | -4.46 | 99.75 | 105.83 |
| 12 | cB | 926 | CLA | CMD-C2D-C1D | 4.46 | 132.57 | 124.71 |
| 12 | aA | 843 | CLA | C3D-C2D-C1D | -4.46 | 99.75 | 105.83 |
| 12 | bA | 816 | CLA | C3D-C2D-C1D | -4.46 | 99.75 | 105.83 |
| 12 | cB | 919 | CLA | C4A-NA-C1A | -4.46 | 104.70 | 106.71 |
| 12 | aB | 916 | CLA | O2D-CGD-CBD | 4.45 | 119.18 | 111.27 |
| 12 | bA | 830 | CLA | C3C-C4C-NC | 4.45 | 115.57 | 110.57 |
| 12 | cB | 907 | CLA | CHD-C1D-ND | -4.45 | 120.36 | 124.45 |
| 12 | cA | 802 | CLA | C4A-NA-C1A | -4.45 | 104.70 | 106.71 |
| 12 | cA | 816 | CLA | C3C-C4C-NC | 4.45 | 115.56 | 110.57 |
| 12 | cB | 901 | CLA | C1D-CHD-C4C | -4.45 | 116.46 | 126.06 |
| 12 | cA | 805 | CLA | C2C-C1C-NC | 4.45 | 114.14 | 109.97 |
| 11 | aA | 801 | CL0 | C1C-C2C-C3C | -4.45 | 102.28 | 106.96 |
| 12 | aL | 202 | CLA | C3D-C4D-ND | 4.45 | 117.43 | 110.24 |
| 12 | aB | 931 | CLA | C4A-NA-C1A | -4.45 | 104.71 | 106.71 |
| 12 | cB | 916 | CLA | O2D-CGD-CBD | 4.45 | 119.17 | 111.27 |
| 12 | bB | 901 | CLA | C1D-CHD-C4C | -4.44 | 116.47 | 126.06 |
| 12 | aB | 901 | CLA | C1D-CHD-C4C | -4.44 | 116.47 | 126.06 |
| 12 | bA | 802 | CLA | C4A-NA-C1A | -4.44 | 104.71 | 106.71 |
| 12 | aA | 816 | CLA | C3D-C2D-C1D | -4.44 | 99.77 | 105.83 |
| 12 | bA | 843 | CLA | C3D-C2D-C1D | -4.44 | 99.77 | 105.83 |
| 12 | cA | 820 | CLA | C3D-C2D-C1D | -4.44 | 99.77 | 105.83 |
| 12 | aA | 835 | CLA | C3C-C4C-NC | 4.44 | 115.55 | 110.57 |
| 12 | bA | 843 | CLA | CAC-C3C-C4C | 4.44 | 130.57 | 124.81 |
| 12 | bA | 835 | CLA | C3C-C4C-NC | 4.44 | 115.55 | 110.57 |
| 12 | cA | 843 | CLA | CAC-C3C-C4C | 4.44 | 130.56 | 124.81 |
| 12 | cB | 901 | CLA | C3D-C2D-C1D | -4.43 | 99.78 | 105.83 |
| 12 | bA | 805 | CLA | C2C-C1C-NC | 4.43 | 114.12 | 109.97 |
| 12 | cA | 816 | CLA | C3D-C2D-C1D | -4.43 | 99.79 | 105.83 |
| 12 | bA | 804 | CLA | C3D-C2D-C1D | -4.43 | 99.79 | 105.83 |
| 12 | bB | 902 | CLA | CHD-C4C-C3C | -4.43 | 118.33 | 124.84 |
| 12 | aB | 901 | CLA | C3D-C2D-C1D | -4.43 | 99.79 | 105.83 |
| 12 | aA | 854 | CLA | CMD-C2D-C1D | 4.43 | 132.51 | 124.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 853 | CLA | CMD-C2D-C1D | 4.42 | 132.51 | 124.71 |
| 12 | aB | 919 | CLA | C4A-NA-C1A | -4.42 | 104.72 | 106.71 |
| 12 | cA | 815 | CLA | C3D-C2D-C1D | -4.42 | 99.80 | 105.83 |
| 12 | bA | 815 | CLA | C3D-C2D-C1D | -4.42 | 99.80 | 105.83 |
| 12 | cA | 821 | CLA | C3D-C2D-C1D | -4.42 | 99.80 | 105.83 |
| 12 | aA | 804 | CLA | C3D-C2D-C1D | -4.42 | 99.80 | 105.83 |
| 12 | bB | 907 | CLA | CHD-C1D-ND | -4.42 | 120.39 | 124.45 |
| 12 | cL | 202 | CLA | C3D-C4D-ND | 4.42 | 117.38 | 110.24 |
| 12 | bB | 928 | CLA | CMB-C2B-C3B | 4.41 | 132.94 | 124.68 |
| 12 | aB | 921 | CLA | O2D-CGD-CBD | 4.41 | 119.11 | 111.27 |
| 12 | bA | 821 | CLA | C3D-C2D-C1D | -4.41 | 99.81 | 105.83 |
| 12 | cB | 923 | CLA | C3D-C2D-C1D | -4.41 | 99.81 | 105.83 |
| 12 | cA | 804 | CLA | C3C-C4C-NC | 4.41 | 115.52 | 110.57 |
| 12 | bB | 901 | CLA | C3D-C2D-C1D | -4.41 | 99.81 | 105.83 |
| 12 | aA | 821 | CLA | C3D-C2D-C1D | -4.41 | 99.81 | 105.83 |
| 12 | cA | 804 | CLA | C3D-C2D-C1D | -4.41 | 99.82 | 105.83 |
| 12 | aA | 815 | CLA | C3D-C2D-C1D | -4.41 | 99.82 | 105.83 |
| 12 | aB | 908 | CLA | O2D-CGD-CBD | 4.41 | 119.10 | 111.27 |
| 12 | bB | 908 | CLA | O2D-CGD-CBD | 4.41 | 119.10 | 111.27 |
| 12 | aA | 817 | CLA | C3D-C4D-ND | 4.41 | 117.37 | 110.24 |
| 12 | bB | 921 | CLA | C4-C3-C5 | 4.41 | 122.68 | 115.27 |
| 12 | cB | 921 | CLA | O2D-CGD-CBD | 4.40 | 119.09 | 111.27 |
| 12 | bB | 931 | CLA | C3D-C4D-ND | 4.40 | 117.36 | 110.24 |
| 11 | bA | 801 | CL0 | C1C-C2C-C3C | -4.40 | 102.33 | 106.96 |
| 12 | bA | 853 | CLA | CMD-C2D-C1D | 4.40 | 132.47 | 124.71 |
| 11 | aA | 801 | CL0 | C3C-C4C-NC | 4.40 | 115.51 | 110.57 |
| 12 | aA | 813 | CLA | C3D-C2D-C1D | -4.40 | 99.82 | 105.83 |
| 12 | cB | 928 | CLA | CMB-C2B-C3B | 4.40 | 132.91 | 124.68 |
| 12 | bL | 202 | CLA | C3D-C4D-ND | 4.40 | 117.36 | 110.24 |
| 12 | cA | 830 | CLA | C3C-C4C-NC | 4.40 | 115.51 | 110.57 |
| 11 | cA | 801 | CL0 | C1C-C2C-C3C | -4.40 | 102.33 | 106.96 |
| 11 | bA | 801 | CL0 | C3C-C4C-NC | 4.40 | 115.50 | 110.57 |
| 11 | cA | 801 | CL0 | C3C-C4C-NC | 4.40 | 115.50 | 110.57 |
| 12 | cA | 823 | CLA | C3C-C4C-NC | 4.40 | 115.50 | 110.57 |
| 12 | aB | 931 | CLA | C3D-C4D-ND | 4.40 | 117.35 | 110.24 |
| 12 | aA | 823 | CLA | C3C-C4C-NC | 4.40 | 115.50 | 110.57 |
| 12 | aA | 830 | CLA | C3C-C4C-NC | 4.40 | 115.50 | 110.57 |
| 12 | cB | 931 | CLA | C3D-C4D-ND | 4.40 | 117.35 | 110.24 |
| 12 | bB | 923 | CLA | C3D-C2D-C1D | -4.40 | 99.83 | 105.83 |
| 12 | bA | 831 | CLA | C3C-C4C-NC | 4.40 | 115.50 | 110.57 |
| 12 | cA | 840 | CLA | C3D-C2D-C1D | -4.39 | 99.83 | 105.83 |
| 12 | cB | 921 | CLA | C4-C3-C5 | 4.39 | 122.66 | 115.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 804 | CLA | C3C-C4C-NC | 4.39 | 115.50 | 110.57 |
| 12 | bB | 921 | CLA | O2D-CGD-CBD | 4.39 | 119.07 | 111.27 |
| 12 | aB | 934 | CLA | O2D-CGD-CBD | 4.39 | 119.07 | 111.27 |
| 12 | bA | 823 | CLA | C3C-C4C-NC | 4.39 | 115.50 | 110.57 |
| 12 | cL | 203 | CLA | C3D-C4D-ND | 4.39 | 117.34 | 110.24 |
| 12 | bA | 843 | CLA | O2D-CGD-CBD | 4.39 | 119.07 | 111.27 |
| 12 | bA | 817 | CLA | C3D-C4D-ND | 4.39 | 117.33 | 110.24 |
| 12 | aB | 923 | CLA | C3D-C2D-C1D | -4.38 | 99.85 | 105.83 |
| 12 | aA | 806 | CLA | CHD-C4C-C3C | -4.38 | 118.40 | 124.84 |
| 12 | aB | 902 | CLA | CHD-C4C-C3C | -4.38 | 118.40 | 124.84 |
| 12 | aA | 837 | CLA | C3C-C4C-NC | 4.38 | 115.49 | 110.57 |
| 12 | cA | 811 | CLA | C3D-C2D-C1D | -4.38 | 99.85 | 105.83 |
| 12 | cB | 908 | CLA | O2D-CGD-CBD | 4.38 | 119.06 | 111.27 |
| 12 | cA | 843 | CLA | O2D-CGD-CBD | 4.38 | 119.06 | 111.27 |
| 12 | cA | 835 | CLA | C3C-C4C-NC | 4.38 | 115.48 | 110.57 |
| 12 | aB | 928 | CLA | CMB-C2B-C3B | 4.38 | 132.88 | 124.68 |
| 12 | cA | 813 | CLA | C3D-C2D-C1D | -4.38 | 99.85 | 105.83 |
| 12 | cA | 817 | CLA | C3D-C4D-ND | 4.38 | 117.32 | 110.24 |
| 12 | aA | 806 | CLA | CAC-C3C-C4C | 4.38 | 130.49 | 124.81 |
| 12 | cA | 836 | CLA | C3D-C2D-C1D | -4.38 | 99.86 | 105.83 |
| 12 | aL | 203 | CLA | C3D-C4D-ND | 4.38 | 117.32 | 110.24 |
| 12 | bA | 837 | CLA | C3C-C4C-NC | 4.38 | 115.48 | 110.57 |
| 12 | aA | 805 | CLA | C2C-C1C-NC | 4.38 | 114.07 | 109.97 |
| 12 | aA | 831 | CLA | C3C-C4C-NC | 4.38 | 115.48 | 110.57 |
| 12 | cB | 934 | CLA | O2D-CGD-CBD | 4.37 | 119.04 | 111.27 |
| 12 | aB | 916 | CLA | C3D-C4D-ND | 4.37 | 117.31 | 110.24 |
| 12 | bA | 836 | CLA | C3D-C2D-C1D | -4.37 | 99.86 | 105.83 |
| 12 | aB | 921 | CLA | C4-C3-C5 | 4.37 | 122.63 | 115.27 |
| 12 | aB | 911 | CLA | C3D-C2D-C1D | -4.37 | 99.87 | 105.83 |
| 12 | bL | 203 | CLA | C3D-C4D-ND | 4.37 | 117.31 | 110.24 |
| 12 | aF | 202 | CLA | C4A-NA-C1A | -4.37 | 104.74 | 106.71 |
| 12 | aA | 811 | CLA | C3D-C2D-C1D | -4.37 | 99.87 | 105.83 |
| 12 | bA | 804 | CLA | C3C-C4C-NC | 4.37 | 115.47 | 110.57 |
| 12 | cA | 806 | CLA | CHD-C4C-C3C | -4.37 | 118.42 | 124.84 |
| 12 | bA | 806 | CLA | CHD-C4C-C3C | -4.36 | 118.42 | 124.84 |
| 12 | cB | 921 | CLA | C3D-C2D-C1D | -4.36 | 99.88 | 105.83 |
| 12 | cB | 902 | CLA | CHD-C4C-C3C | -4.36 | 118.43 | 124.84 |
| 12 | cA | 804 | CLA | CHD-C1D-ND | -4.36 | 120.45 | 124.45 |
| 12 | aA | 821 | CLA | C3C-C4C-NC | 4.36 | 115.46 | 110.57 |
| 12 | aA | 840 | CLA | C3D-C2D-C1D | -4.36 | 99.88 | 105.83 |
| 12 | bA | 840 | CLA | C3D-C2D-C1D | -4.36 | 99.88 | 105.83 |
| 12 | bB | 934 | CLA | O2D-CGD-CBD | 4.36 | 119.01 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 918 | CLA | C3D-C2D-C1D | -4.36 | 99.89 | 105.83 |
| 12 | aB | 934 | CLA | C3D-C2D-C1D | -4.36 | 99.89 | 105.83 |
| 12 | bA | 811 | CLA | C3D-C2D-C1D | -4.35 | 99.89 | 105.83 |
| 12 | bB | 939 | CLA | C3D-C4D-ND | 4.35 | 117.28 | 110.24 |
| 12 | bB | 915 | CLA | C4A-NA-C1A | -4.35 | 104.75 | 106.71 |
| 12 | aB | 907 | CLA | CHD-C1D-ND | -4.35 | 120.45 | 124.45 |
| 12 | bA | 830 | CLA | C4A-NA-C1A | -4.35 | 104.75 | 106.71 |
| 12 | bA | 821 | CLA | C3C-C4C-NC | 4.35 | 115.45 | 110.57 |
| 12 | cA | 818 | CLA | C3C-C4C-NC | 4.35 | 115.45 | 110.57 |
| 12 | cB | 934 | CLA | C3D-C2D-C1D | -4.35 | 99.90 | 105.83 |
| 12 | cB | 911 | CLA | C3D-C2D-C1D | -4.35 | 99.90 | 105.83 |
| 12 | bA | 804 | CLA | CHD-C1D-ND | -4.35 | 120.46 | 124.45 |
| 12 | bB | 921 | CLA | C3D-C2D-C1D | -4.35 | 99.90 | 105.83 |
| 12 | aA | 843 | CLA | O2D-CGD-CBD | 4.35 | 118.99 | 111.27 |
| 12 | bA | 813 | CLA | C3D-C2D-C1D | -4.35 | 99.90 | 105.83 |
| 12 | cA | 821 | CLA | C3C-C4C-NC | 4.35 | 115.44 | 110.57 |
| 12 | aA | 818 | CLA | C3C-C4C-NC | 4.34 | 115.44 | 110.57 |
| 12 | aA | 844 | CLA | C3C-C4C-NC | 4.34 | 115.44 | 110.57 |
| 12 | bB | 916 | CLA | C3D-C4D-ND | 4.34 | 117.26 | 110.24 |
| 12 | aA | 854 | CLA | CAA-C2A-C3A | -4.34 | 100.89 | 112.78 |
| 12 | aB | 918 | CLA | C3D-C2D-C1D | -4.34 | 99.91 | 105.83 |
| 12 | aA | 841 | CLA | C3C-C4C-NC | 4.34 | 115.44 | 110.57 |
| 12 | bA | 841 | CLA | C3C-C4C-NC | 4.34 | 115.44 | 110.57 |
| 12 | cA | 837 | CLA | C3C-C4C-NC | 4.34 | 115.44 | 110.57 |
| 12 | aB | 921 | CLA | C3D-C2D-C1D | -4.34 | 99.91 | 105.83 |
| 12 | bA | 806 | CLA | C3D-C4D-ND | 4.34 | 117.26 | 110.24 |
| 12 | bA | 833 | CLA | O2D-CGD-CBD | 4.34 | 118.98 | 111.27 |
| 12 | bA | 812 | CLA | C4A-NA-C1A | -4.34 | 104.76 | 106.71 |
| 12 | aA | 836 | CLA | C3D-C2D-C1D | -4.34 | 99.91 | 105.83 |
| 12 | aA | 817 | CLA | C4A-NA-C1A | -4.34 | 104.76 | 106.71 |
| 12 | aA | 804 | CLA | CHD-C1D-ND | -4.33 | 120.47 | 124.45 |
| 12 | aA | 806 | CLA | C3D-C4D-ND | 4.33 | 117.25 | 110.24 |
| 12 | cA | 853 | CLA | CAA-C2A-C3A | -4.33 | 100.92 | 112.78 |
| 12 | aB | 939 | CLA | C3D-C4D-ND | 4.33 | 117.24 | 110.24 |
| 12 | cA | 831 | CLA | C3C-C4C-NC | 4.33 | 115.43 | 110.57 |
| 12 | bA | 837 | CLA | C4A-NA-C1A | -4.33 | 104.76 | 106.71 |
| 12 | bB | 933 | CLA | C3C-C4C-NC | 4.33 | 115.43 | 110.57 |
| 12 | bB | 950 | CLA | C3C-C4C-NC | 4.33 | 115.43 | 110.57 |
| 12 | cB | 933 | CLA | C3C-C4C-NC | 4.33 | 115.43 | 110.57 |
| 12 | cB | 915 | CLA | C4A-NA-C1A | -4.33 | 104.76 | 106.71 |
| 12 | bA | 806 | CLA | CAC-C3C-C4C | 4.33 | 130.43 | 124.81 |
| 12 | cA | 806 | CLA | CAC-C3C-C4C | 4.33 | 130.42 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 950 | CLA | C3D-C2D-C1D | -4.32 | 99.93 | 105.83 |
| 12 | aA | 812 | CLA | C4A-NA-C1A | -4.32 | 104.76 | 106.71 |
| 12 | aA | 844 | CLA | C3D-C2D-C1D | -4.32 | 99.93 | 105.83 |
| 12 | cB | 918 | CLA | C3D-C2D-C1D | -4.32 | 99.93 | 105.83 |
| 12 | cA | 806 | CLA | C3D-C4D-ND | 4.32 | 117.23 | 110.24 |
| 12 | cA | 841 | CLA | C3C-C4C-NC | 4.32 | 115.42 | 110.57 |
| 12 | bB | 934 | CLA | C3D-C2D-C1D | -4.32 | 99.93 | 105.83 |
| 12 | bA | 853 | CLA | CAA-C2A-C3A | -4.32 | 100.95 | 112.78 |
| 12 | cB | 916 | CLA | C3D-C4D-ND | 4.32 | 117.23 | 110.24 |
| 12 | cA | 833 | CLA | O2D-CGD-CBD | 4.32 | 118.94 | 111.27 |
| 12 | bB | 931 | CLA | C3C-C4C-NC | 4.32 | 115.41 | 110.57 |
| 12 | aA | 830 | CLA | C4A-NA-C1A | -4.32 | 104.77 | 106.71 |
| 12 | aB | 950 | CLA | C3D-C2D-C1D | -4.31 | 99.94 | 105.83 |
| 12 | cB | 939 | CLA | C3D-C4D-ND | 4.31 | 117.21 | 110.24 |
| 12 | aA | 824 | CLA | C1C-C2C-C3C | -4.31 | 102.42 | 106.96 |
| 12 | bA | 824 | CLA | C1C-C2C-C3C | -4.31 | 102.42 | 106.96 |
| 12 | aA | 833 | CLA | O2D-CGD-CBD | 4.31 | 118.93 | 111.27 |
| 12 | aB | 933 | CLA | C3C-C4C-NC | 4.31 | 115.41 | 110.57 |
| 12 | aB | 903 | CLA | C3C-C4C-NC | 4.31 | 115.40 | 110.57 |
| 12 | bB | 950 | CLA | CMD-C2D-C1D | 4.31 | 132.31 | 124.71 |
| 12 | aB | 950 | CLA | C3C-C4C-NC | 4.31 | 115.40 | 110.57 |
| 12 | bB | 903 | CLA | C3C-C4C-NC | 4.31 | 115.40 | 110.57 |
| 12 | aB | 931 | CLA | C3C-C4C-NC | 4.31 | 115.40 | 110.57 |
| 12 | cA | 811 | CLA | C4A-NA-C1A | -4.30 | 104.77 | 106.71 |
| 12 | aB | 950 | CLA | CMD-C2D-C1D | 4.30 | 132.30 | 124.71 |
| 12 | bB | 911 | CLA | C3D-C2D-C1D | -4.30 | 99.96 | 105.83 |
| 12 | bB | 913 | CLA | C3D-C2D-C1D | -4.30 | 99.96 | 105.83 |
| 12 | cB | 913 | CLA | C3D-C2D-C1D | -4.30 | 99.96 | 105.83 |
| 12 | bA | 818 | CLA | C3C-C4C-NC | 4.30 | 115.39 | 110.57 |
| 12 | aA | 808 | CLA | C3D-C2D-C1D | -4.30 | 99.96 | 105.83 |
| 12 | cB | 907 | CLA | C3C-C4C-NC | 4.30 | 115.39 | 110.57 |
| 12 | cA | 837 | CLA | C4A-NA-C1A | -4.29 | 104.78 | 106.71 |
| 12 | cA | 808 | CLA | C3D-C2D-C1D | -4.29 | 99.97 | 105.83 |
| 12 | cL | 203 | CLA | C3C-C4C-NC | 4.29 | 115.38 | 110.57 |
| 12 | cA | 808 | CLA | C3D-C4D-ND | 4.29 | 117.18 | 110.24 |
| 12 | cA | 830 | CLA | C4A-NA-C1A | -4.29 | 104.78 | 106.71 |
| 12 | aB | 913 | CLA | C3D-C4D-ND | 4.29 | 117.17 | 110.24 |
| 12 | aB | 913 | CLA | C3D-C2D-C1D | -4.28 | 99.98 | 105.83 |
| 12 | cB | 903 | CLA | C3C-C4C-NC | 4.28 | 115.38 | 110.57 |
| 12 | bB | 907 | CLA | C3C-C4C-NC | 4.28 | 115.37 | 110.57 |
| 12 | bA | 808 | CLA | C3D-C4D-ND | 4.28 | 117.16 | 110.24 |
| 12 | cB | 906 | CLA | C3C-C4C-NC | 4.28 | 115.37 | 110.57 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 950 | CLA | CAC-C3C-C4C | 4.28 | 130.36 | 124.81 |
| 12 | bB | 907 | CLA | C3D-C2D-C1D | -4.28 | 99.99 | 105.83 |
| 12 | bA | 808 | CLA | C3D-C2D-C1D | -4.28 | 99.99 | 105.83 |
| 12 | cA | 802 | CLA | C3C-C4C-NC | 4.28 | 115.37 | 110.57 |
| 12 | bB | 933 | CLA | C1C-C2C-C3C | -4.28 | 102.46 | 106.96 |
| 12 | bA | 819 | CLA | C4A-NA-C1A | -4.28 | 104.78 | 106.71 |
| 12 | cB | 935 | CLA | C4A-NA-C1A | -4.28 | 104.78 | 106.71 |
| 12 | aA | 844 | CLA | CMD-C2D-C1D | 4.27 | 132.25 | 124.71 |
| 12 | bB | 922 | CLA | C3C-C4C-NC | 4.27 | 115.36 | 110.57 |
| 12 | aA | 817 | CLA | C3C-C4C-NC | 4.27 | 115.36 | 110.57 |
| 12 | aB | 950 | CLA | CAC-C3C-C4C | 4.27 | 130.35 | 124.81 |
| 12 | bL | 203 | CLA | C3C-C4C-NC | 4.27 | 115.36 | 110.57 |
| 12 | aB | 907 | CLA | C3D-C2D-C1D | -4.26 | 100.01 | 105.83 |
| 12 | cA | 824 | CLA | C1C-C2C-C3C | -4.26 | 102.47 | 106.96 |
| 12 | cL | 204 | CLA | C3D-C4D-ND | 4.26 | 117.13 | 110.24 |
| 12 | aA | 844 | CLA | CAC-C3C-C4C | 4.26 | 130.34 | 124.81 |
| 12 | cA | 836 | CLA | O2D-CGD-CBD | 4.26 | 118.84 | 111.27 |
| 12 | aL | 204 | CLA | C3D-C4D-ND | 4.26 | 117.12 | 110.24 |
| 12 | cA | 804 | CLA | C3D-C4D-ND | 4.26 | 117.12 | 110.24 |
| 12 | aB | 938 | CLA | C3D-C2D-C1D | -4.25 | 100.03 | 105.83 |
| 12 | bB | 908 | CLA | C3D-C2D-C1D | -4.25 | 100.03 | 105.83 |
| 12 | cA | 817 | CLA | C3C-C4C-NC | 4.25 | 115.34 | 110.57 |
| 12 | bB | 915 | CLA | C1C-C2C-C3C | -4.25 | 102.49 | 106.96 |
| 12 | cB | 933 | CLA | C1C-C2C-C3C | -4.25 | 102.49 | 106.96 |
| 12 | aA | 808 | CLA | C3D-C4D-ND | 4.25 | 117.12 | 110.24 |
| 12 | cB | 917 | CLA | C4A-NA-C1A | -4.25 | 104.80 | 106.71 |
| 12 | aA | 804 | CLA | C3D-C4D-ND | 4.25 | 117.11 | 110.24 |
| 12 | aB | 906 | CLA | C3C-C4C-NC | 4.25 | 115.34 | 110.57 |
| 12 | aL | 203 | CLA | C3C-C4C-NC | 4.25 | 115.34 | 110.57 |
| 12 | bB | 920 | CLA | C3D-C4D-ND | 4.25 | 117.11 | 110.24 |
| 12 | cB | 938 | CLA | C3D-C2D-C1D | -4.25 | 100.03 | 105.83 |
| 12 | aB | 915 | CLA | C4A-NA-C1A | -4.25 | 104.80 | 106.71 |
| 12 | aB | 922 | CLA | C3C-C4C-NC | 4.25 | 115.33 | 110.57 |
| 12 | bB | 906 | CLA | C3C-C4C-NC | 4.25 | 115.33 | 110.57 |
| 12 | bA | 815 | CLA | C4A-NA-C1A | -4.24 | 104.80 | 106.71 |
| 12 | aB | 920 | CLA | C3D-C4D-ND | 4.24 | 117.10 | 110.24 |
| 12 | cB | 922 | CLA | C3C-C4C-NC | 4.24 | 115.33 | 110.57 |
| 12 | bB | 913 | CLA | C3D-C4D-ND | 4.24 | 117.10 | 110.24 |
| 12 | bA | 811 | CLA | C4A-NA-C1A | -4.24 | 104.80 | 106.71 |
| 12 | cA | 823 | CLA | C4A-NA-C1A | -4.24 | 104.80 | 106.71 |
| 12 | aB | 927 | CLA | CMB-C2B-C3B | 4.24 | 132.61 | 124.68 |
| 12 | bB | 906 | CLA | C3D-C4D-ND | 4.24 | 117.09 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 838 | CLA | C3D-C4D-ND | 4.24 | 117.09 | 110.24 |
| 12 | aB | 933 | CLA | C1C-C2C-C3C | -4.24 | 102.50 | 106.96 |
| 12 | bL | 204 | CLA | C3D-C4D-ND | 4.24 | 117.09 | 110.24 |
| 12 | bA | 802 | CLA | C3C-C4C-NC | 4.24 | 115.32 | 110.57 |
| 12 | bB | 938 | CLA | C3D-C2D-C1D | -4.24 | 100.05 | 105.83 |
| 12 | cB | 915 | CLA | C1C-C2C-C3C | -4.24 | 102.50 | 106.96 |
| 12 | aB | 907 | CLA | C3C-C4C-NC | 4.23 | 115.32 | 110.57 |
| 12 | bA | 838 | CLA | C3D-C4D-ND | 4.23 | 117.09 | 110.24 |
| 12 | cB | 907 | CLA | C3D-C2D-C1D | -4.23 | 100.06 | 105.83 |
| 12 | bA | 804 | CLA | CMD-C2D-C1D | 4.23 | 132.17 | 124.71 |
| 12 | cA | 835 | CLA | C3D-C2D-C1D | -4.23 | 100.06 | 105.83 |
| 12 | cB | 931 | CLA | C3C-C4C-NC | 4.23 | 115.31 | 110.57 |
| 12 | aA | 836 | CLA | O2D-CGD-CBD | 4.23 | 118.78 | 111.27 |
| 12 | bA | 834 | CLA | C1C-C2C-C3C | -4.23 | 102.51 | 106.96 |
| 12 | cA | 812 | CLA | C4A-NA-C1A | -4.23 | 104.81 | 106.71 |
| 12 | cB | 913 | CLA | C3D-C4D-ND | 4.23 | 117.08 | 110.24 |
| 12 | aB | 915 | CLA | C1C-C2C-C3C | -4.23 | 102.51 | 106.96 |
| 12 | cA | 834 | CLA | C1C-C2C-C3C | -4.23 | 102.51 | 106.96 |
| 12 | cB | 906 | CLA | C3D-C4D-ND | 4.23 | 117.07 | 110.24 |
| 12 | cB | 920 | CLA | C3D-C4D-ND | 4.22 | 117.07 | 110.24 |
| 12 | bA | 835 | CLA | C3D-C2D-C1D | -4.22 | 100.07 | 105.83 |
| 12 | aB | 906 | CLA | C3D-C4D-ND | 4.22 | 117.07 | 110.24 |
| 12 | bA | 817 | CLA | C3C-C4C-NC | 4.22 | 115.31 | 110.57 |
| 12 | bA | 836 | CLA | O2D-CGD-CBD | 4.22 | 118.77 | 111.27 |
| 12 | cB | 905 | CLA | C3C-C4C-NC | 4.22 | 115.30 | 110.57 |
| 12 | aA | 835 | CLA | C3D-C2D-C1D | -4.22 | 100.08 | 105.83 |
| 12 | cB | 911 | CLA | C3C-C4C-NC | 4.21 | 115.30 | 110.57 |
| 12 | aB | 908 | CLA | C3D-C2D-C1D | -4.21 | 100.08 | 105.83 |
| 12 | aA | 838 | CLA | C3D-C4D-ND | 4.21 | 117.05 | 110.24 |
| 12 | aB | 936 | CLA | C3D-C4D-ND | 4.21 | 117.05 | 110.24 |
| 12 | aB | 917 | CLA | C4A-NA-C1A | -4.21 | 104.81 | 106.71 |
| 12 | bA | 838 | CLA | C4A-NA-C1A | -4.21 | 104.81 | 106.71 |
| 12 | cB | 949 | CLA | C1D-CHD-C4C | -4.21 | 116.97 | 126.06 |
| 12 | bB | 917 | CLA | C4A-NA-C1A | -4.21 | 104.81 | 106.71 |
| 12 | aA | 802 | CLA | C3C-C4C-NC | 4.21 | 115.29 | 110.57 |
| 12 | bB | 949 | CLA | C1D-CHD-C4C | -4.21 | 116.98 | 126.06 |
| 12 | aA | 823 | CLA | C4A-NA-C1A | -4.21 | 104.81 | 106.71 |
| 12 | cA | 838 | CLA | C4A-NA-C1A | -4.21 | 104.81 | 106.71 |
| 12 | bA | 804 | CLA | C3D-C4D-ND | 4.21 | 117.05 | 110.24 |
| 12 | bB | 905 | CLA | C3C-C4C-NC | 4.21 | 115.29 | 110.57 |
| 16 | bA | 852 | LHG | O4-P-O5 | 4.21 | 133.04 | 112.24 |
| 12 | bF | 202 | CLA | C3D-C4D-ND | 4.21 | 117.04 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 935 | CLA | C4A-NA-C1A | -4.21 | 104.81 | 106.71 |
| 12 | bA | 824 | CLA | O2D-CGD-CBD | 4.21 | 118.74 | 111.27 |
| 12 | cB | 927 | CLA | CMB-C2B-C3B | 4.21 | 132.55 | 124.68 |
| 12 | aB | 949 | CLA | C1D-CHD-C4C | -4.20 | 116.99 | 126.06 |
| 16 | cA | 852 | LHG | O4-P-O5 | 4.20 | 133.03 | 112.24 |
| 12 | cA | 830 | CLA | CMB-C2B-C3B | 4.20 | 132.54 | 124.68 |
| 12 | aA | 834 | CLA | C1C-C2C-C3C | -4.20 | 102.54 | 106.96 |
| 12 | bA | 840 | CLA | C3D-C4D-ND | 4.20 | 117.04 | 110.24 |
| 12 | cB | 908 | CLA | C3D-C2D-C1D | -4.20 | 100.09 | 105.83 |
| 12 | bB | 927 | CLA | CMB-C2B-C3B | 4.20 | 132.54 | 124.68 |
| 12 | cA | 807 | CLA | C2C-C1C-NC | 4.20 | 113.91 | 109.97 |
| 12 | aA | 832 | CLA | CAA-C2A-C3A | -4.20 | 101.27 | 112.78 |
| 12 | aA | 840 | CLA | C3D-C4D-ND | 4.20 | 117.03 | 110.24 |
| 16 | aA | 853 | LHG | O4-P-O5 | 4.20 | 133.00 | 112.24 |
| 12 | aA | 837 | CLA | C4A-NA-C1A | -4.20 | 104.82 | 106.71 |
| 12 | aA | 804 | CLA | CMD-C2D-C1D | 4.20 | 132.11 | 124.71 |
| 12 | aA | 843 | CLA | C3D-C4D-ND | 4.20 | 117.03 | 110.24 |
| 12 | aB | 911 | CLA | C3C-C4C-NC | 4.20 | 115.28 | 110.57 |
| 12 | aA | 823 | CLA | C3D-C4D-ND | 4.20 | 117.03 | 110.24 |
| 12 | bB | 911 | CLA | C3C-C4C-NC | 4.20 | 115.28 | 110.57 |
| 12 | aB | 925 | CLA | C4A-NA-C1A | -4.20 | 104.82 | 106.71 |
| 12 | aF | 202 | CLA | C3D-C4D-ND | 4.19 | 117.02 | 110.24 |
| 12 | bB | 936 | CLA | C3D-C4D-ND | 4.19 | 117.02 | 110.24 |
| 12 | cB | 936 | CLA | C3D-C4D-ND | 4.19 | 117.02 | 110.24 |
| 16 | aA | 852 | LHG | O4-P-O5 | 4.19 | 132.97 | 112.24 |
| 12 | aB | 930 | CLA | C3D-C4D-ND | 4.19 | 117.02 | 110.24 |
| 12 | bA | 835 | CLA | C3D-C4D-ND | 4.19 | 117.02 | 110.24 |
| 16 | cA | 851 | LHG | O4-P-O5 | 4.19 | 132.97 | 112.24 |
| 12 | aA | 835 | CLA | C3D-C4D-ND | 4.19 | 117.02 | 110.24 |
| 12 | bA | 822 | CLA | C3D-C4D-ND | 4.19 | 117.02 | 110.24 |
| 12 | cA | 803 | CLA | C3D-C4D-ND | 4.19 | 117.01 | 110.24 |
| 12 | aA | 822 | CLA | C3D-C4D-ND | 4.19 | 117.01 | 110.24 |
| 12 | cA | 843 | CLA | C3D-C4D-ND | 4.19 | 117.01 | 110.24 |
| 16 | bA | 851 | LHG | O4-P-O5 | 4.19 | 132.94 | 112.24 |
| 12 | cA | 832 | CLA | CAA-C2A-C3A | -4.19 | 101.32 | 112.78 |
| 12 | cA | 804 | CLA | CMD-C2D-C1D | 4.19 | 132.09 | 124.71 |
| 12 | aA | 824 | CLA | O2D-CGD-CBD | 4.19 | 118.71 | 111.27 |
| 12 | bB | 913 | CLA | C3C-C4C-NC | 4.19 | 115.27 | 110.57 |
| 12 | cA | 824 | CLA | O2D-CGD-CBD | 4.18 | 118.70 | 111.27 |
| 12 | bA | 832 | CLA | CAA-C2A-C3A | -4.18 | 101.32 | 112.78 |
| 12 | cB | 925 | CLA | C4A-NA-C1A | -4.18 | 104.83 | 106.71 |
| 12 | aA | 830 | CLA | CMB-C2B-C3B | 4.18 | 132.50 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 843 | CLA | C3D-C4D-ND | 4.18 | 117.00 | 110.24 |
| 12 | aA | 805 | CLA | C3C-C4C-NC | 4.18 | 115.26 | 110.57 |
| 12 | bA | 823 | CLA | C3D-C4D-ND | 4.18 | 117.00 | 110.24 |
| 12 | cA | 835 | CLA | C3D-C4D-ND | 4.18 | 116.99 | 110.24 |
| 12 | bA | 830 | CLA | CMB-C2B-C3B | 4.18 | 132.49 | 124.68 |
| 12 | cL | 202 | CLA | C4A-NA-C1A | -4.18 | 104.83 | 106.71 |
| 12 | bB | 930 | CLA | C3D-C4D-ND | 4.17 | 116.99 | 110.24 |
| 12 | cB | 915 | CLA | C3D-C4D-ND | 4.17 | 116.99 | 110.24 |
| 12 | cB | 921 | CLA | C3D-C4D-ND | 4.17 | 116.98 | 110.24 |
| 12 | cB | 922 | CLA | C3D-C2D-C1D | -4.17 | 100.14 | 105.83 |
| 12 | cB | 913 | CLA | C3C-C4C-NC | 4.17 | 115.25 | 110.57 |
| 12 | aB | 922 | CLA | C3D-C2D-C1D | -4.17 | 100.14 | 105.83 |
| 12 | bB | 910 | CLA | C3C-C4C-NC | 4.17 | 115.25 | 110.57 |
| 12 | bA | 807 | CLA | C2C-C1C-NC | 4.17 | 113.88 | 109.97 |
| 12 | cA | 822 | CLA | C3D-C4D-ND | 4.17 | 116.98 | 110.24 |
| 12 | aB | 905 | CLA | C3C-C4C-NC | 4.17 | 115.24 | 110.57 |
| 12 | bA | 803 | CLA | C3D-C4D-ND | 4.16 | 116.97 | 110.24 |
| 12 | cA | 826 | CLA | C3D-C4D-ND | 4.16 | 116.97 | 110.24 |
| 12 | aA | 811 | CLA | C4A-NA-C1A | -4.16 | 104.83 | 106.71 |
| 12 | cA | 823 | CLA | C3D-C4D-ND | 4.16 | 116.97 | 110.24 |
| 12 | aA | 826 | CLA | C1C-C2C-C3C | -4.16 | 102.58 | 106.96 |
| 12 | cA | 842 | CLA | C1C-C2C-C3C | -4.16 | 102.58 | 106.96 |
| 12 | bB | 921 | CLA | C3D-C4D-ND | 4.16 | 116.97 | 110.24 |
| 12 | bA | 810 | CLA | C3D-C4D-ND | 4.16 | 116.97 | 110.24 |
| 12 | cA | 810 | CLA | C3D-C4D-ND | 4.16 | 116.97 | 110.24 |
| 12 | bB | 938 | CLA | C3C-C4C-NC | 4.16 | 115.24 | 110.57 |
| 12 | cB | 910 | CLA | C3C-C4C-NC | 4.16 | 115.24 | 110.57 |
| 12 | aA | 814 | CLA | C3C-C4C-NC | 4.16 | 115.23 | 110.57 |
| 12 | bA | 826 | CLA | C3D-C4D-ND | 4.16 | 116.97 | 110.24 |
| 12 | bB | 922 | CLA | C3D-C2D-C1D | -4.16 | 100.16 | 105.83 |
| 12 | cF | 202 | CLA | C3D-C4D-ND | 4.16 | 116.96 | 110.24 |
| 12 | aA | 831 | CLA | C3D-C2D-C1D | -4.16 | 100.16 | 105.83 |
| 12 | aB | 913 | CLA | C3C-C4C-NC | 4.16 | 115.23 | 110.57 |
| 12 | cB | 911 | CLA | C3D-C4D-ND | 4.16 | 116.96 | 110.24 |
| 12 | cB | 904 | CLA | CMB-C2B-C3B | 4.16 | 132.45 | 124.68 |
| 12 | aA | 807 | CLA | C2C-C1C-NC | 4.16 | 113.86 | 109.97 |
| 12 | bB | 911 | CLA | C3D-C4D-ND | 4.15 | 116.96 | 110.24 |
| 12 | aB | 904 | CLA | CMB-C2B-C3B | 4.15 | 132.45 | 124.68 |
| 12 | aB | 938 | CLA | C3C-C4C-NC | 4.15 | 115.23 | 110.57 |
| 12 | aA | 803 | CLA | C3D-C4D-ND | 4.15 | 116.96 | 110.24 |
| 12 | cB | 930 | CLA | C3D-C4D-ND | 4.15 | 116.95 | 110.24 |
| 12 | aB | 915 | CLA | C3D-C4D-ND | 4.15 | 116.95 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 920 | CLA | C1C-C2C-C3C | -4.15 | 102.59 | 106.96 |
| 12 | cA | 831 | CLA | C3D-C2D-C1D | -4.15 | 100.17 | 105.83 |
| 12 | aA | 842 | CLA | C1C-C2C-C3C | -4.15 | 102.59 | 106.96 |
| 12 | aB | 910 | CLA | C3C-C4C-NC | 4.15 | 115.22 | 110.57 |
| 12 | cA | 815 | CLA | C4A-NA-C1A | -4.15 | 104.84 | 106.71 |
| 12 | aA | 826 | CLA | C3D-C4D-ND | 4.15 | 116.95 | 110.24 |
| 12 | aB | 935 | CLA | C4A-NA-C1A | -4.15 | 104.84 | 106.71 |
| 12 | bL | 202 | CLA | C4A-NA-C1A | -4.15 | 104.84 | 106.71 |
| 12 | aB | 911 | CLA | C3D-C4D-ND | 4.15 | 116.94 | 110.24 |
| 12 | bA | 826 | CLA | C1C-C2C-C3C | -4.14 | 102.60 | 106.96 |
| 12 | cB | 910 | CLA | C1C-C2C-C3C | -4.14 | 102.60 | 106.96 |
| 12 | bA | 814 | CLA | C3C-C4C-NC | 4.14 | 115.22 | 110.57 |
| 12 | bA | 823 | CLA | C4A-NA-C1A | -4.14 | 104.84 | 106.71 |
| 12 | aB | 921 | CLA | C3D-C4D-ND | 4.14 | 116.94 | 110.24 |
| 12 | cA | 814 | CLA | C3C-C4C-NC | 4.14 | 115.22 | 110.57 |
| 12 | cB | 929 | CLA | C3D-C4D-ND | 4.14 | 116.94 | 110.24 |
| 12 | cA | 840 | CLA | C3D-C4D-ND | 4.14 | 116.94 | 110.24 |
| 12 | bA | 831 | CLA | C3D-C2D-C1D | -4.14 | 100.18 | 105.83 |
| 12 | cA | 829 | CLA | C3C-C4C-NC | 4.14 | 115.21 | 110.57 |
| 12 | aA | 810 | CLA | C3D-C4D-ND | 4.14 | 116.93 | 110.24 |
| 12 | bB | 904 | CLA | CMB-C2B-C3B | 4.14 | 132.42 | 124.68 |
| 12 | cB | 930 | CLA | C3C-C4C-NC | 4.14 | 115.21 | 110.57 |
| 12 | aA | 819 | CLA | C4A-NA-C1A | -4.13 | 104.85 | 106.71 |
| 12 | cA | 805 | CLA | C3C-C4C-NC | 4.13 | 115.21 | 110.57 |
| 12 | bA | 842 | CLA | C1C-C2C-C3C | -4.13 | 102.61 | 106.96 |
| 12 | bA | 829 | CLA | C3C-C4C-NC | 4.13 | 115.20 | 110.57 |
| 12 | cB | 908 | CLA | C3B-C4B-NB | 4.13 | 114.55 | 109.21 |
| 12 | cB | 904 | CLA | C3C-C4C-NC | 4.13 | 115.20 | 110.57 |
| 12 | cA | 826 | CLA | C1C-C2C-C3C | -4.12 | 102.62 | 106.96 |
| 12 | bA | 805 | CLA | C3C-C4C-NC | 4.12 | 115.19 | 110.57 |
| 12 | bB | 930 | CLA | C3C-C4C-NC | 4.12 | 115.19 | 110.57 |
| 12 | aB | 929 | CLA | C3D-C4D-ND | 4.12 | 116.91 | 110.24 |
| 12 | aB | 925 | CLA | C1D-CHD-C4C | -4.12 | 117.17 | 126.06 |
| 12 | bB | 910 | CLA | C1C-C2C-C3C | -4.12 | 102.62 | 106.96 |
| 12 | cB | 920 | CLA | C1C-C2C-C3C | -4.12 | 102.62 | 106.96 |
| 12 | aA | 838 | CLA | C4A-NA-C1A | -4.12 | 104.85 | 106.71 |
| 12 | cB | 904 | CLA | C4A-NA-C1A | -4.12 | 104.85 | 106.71 |
| 12 | bA | 815 | CLA | C3D-C4D-ND | 4.12 | 116.91 | 110.24 |
| 12 | bB | 908 | CLA | C3B-C4B-NB | 4.12 | 114.54 | 109.21 |
| 12 | cB | 915 | CLA | C1D-CHD-C4C | -4.12 | 117.17 | 126.06 |
| 12 | aA | 815 | CLA | C4A-NA-C1A | -4.12 | 104.85 | 106.71 |
| 12 | aA | 854 | CLA | C4A-NA-C1A | -4.12 | 104.85 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 937 | CLA | C3D-C4D-ND | 4.12 | 116.90 | 110.24 |
| 12 | bB | 915 | CLA | C1D-CHD-C4C | -4.12 | 117.17 | 126.06 |
| 12 | aA | 815 | CLA | C3D-C4D-ND | 4.12 | 116.90 | 110.24 |
| 12 | cB | 938 | CLA | C3C-C4C-NC | 4.12 | 115.19 | 110.57 |
| 12 | bB | 920 | CLA | C1C-C2C-C3C | -4.12 | 102.63 | 106.96 |
| 12 | aB | 939 | CLA | C3C-C4C-NC | 4.11 | 115.19 | 110.57 |
| 12 | bB | 915 | CLA | C3D-C4D-ND | 4.11 | 116.89 | 110.24 |
| 12 | bB | 918 | CLA | C4A-NA-C1A | -4.11 | 104.86 | 106.71 |
| 12 | aB | 915 | CLA | C1D-CHD-C4C | -4.11 | 117.19 | 126.06 |
| 12 | bB | 939 | CLA | C3C-C4C-NC | 4.11 | 115.18 | 110.57 |
| 12 | cB | 939 | CLA | C3C-C4C-NC | 4.11 | 115.18 | 110.57 |
| 12 | bB | 929 | CLA | C3D-C4D-ND | 4.11 | 116.89 | 110.24 |
| 12 | cA | 815 | CLA | C3D-C4D-ND | 4.11 | 116.89 | 110.24 |
| 12 | cA | 841 | CLA | C3D-C4D-ND | 4.11 | 116.89 | 110.24 |
| 12 | bA | 841 | CLA | C3D-C4D-ND | 4.11 | 116.89 | 110.24 |
| 12 | aB | 918 | CLA | C4A-NA-C1A | -4.11 | 104.86 | 106.71 |
| 12 | bB | 925 | CLA | C1D-CHD-C4C | -4.11 | 117.20 | 126.06 |
| 12 | bB | 924 | CLA | C3D-C4D-ND | 4.10 | 116.88 | 110.24 |
| 12 | cA | 810 | CLA | C3C-C4C-NC | 4.10 | 115.17 | 110.57 |
| 12 | cB | 901 | CLA | CMA-C3A-C2A | -4.10 | 97.27 | 113.83 |
| 12 | aB | 918 | CLA | C3D-C4D-ND | 4.10 | 116.88 | 110.24 |
| 12 | aB | 938 | CLA | C3D-C4D-ND | 4.10 | 116.88 | 110.24 |
| 12 | bB | 925 | CLA | C4A-NA-C1A | -4.10 | 104.86 | 106.71 |
| 12 | cA | 837 | CLA | CMB-C2B-C3B | 4.10 | 132.35 | 124.68 |
| 12 | bA | 822 | CLA | C1C-C2C-C3C | -4.10 | 102.65 | 106.96 |
| 12 | cB | 925 | CLA | C1D-CHD-C4C | -4.10 | 117.21 | 126.06 |
| 12 | bB | 937 | CLA | C3D-C4D-ND | 4.10 | 116.87 | 110.24 |
| 12 | aB | 901 | CLA | CMA-C3A-C2A | -4.10 | 97.30 | 113.83 |
| 12 | cB | 924 | CLA | C3D-C4D-ND | 4.10 | 116.86 | 110.24 |
| 12 | cB | 901 | CLA | CAA-C2A-C3A | -4.09 | 101.57 | 112.78 |
| 12 | bB | 901 | CLA | CMA-C3A-C2A | -4.09 | 97.32 | 113.83 |
| 12 | bB | 938 | CLA | C3D-C4D-ND | 4.09 | 116.86 | 110.24 |
| 12 | bA | 837 | CLA | CMB-C2B-C3B | 4.09 | 132.33 | 124.68 |
| 12 | aB | 908 | CLA | C3B-C4B-NB | 4.09 | 114.50 | 109.21 |
| 12 | bB | 901 | CLA | CAA-C2A-C3A | -4.09 | 101.58 | 112.78 |
| 12 | aA | 829 | CLA | C3C-C4C-NC | 4.09 | 115.16 | 110.57 |
| 12 | aB | 937 | CLA | C3D-C4D-ND | 4.09 | 116.85 | 110.24 |
| 12 | bB | 904 | CLA | C3C-C4C-NC | 4.09 | 115.15 | 110.57 |
| 12 | aB | 924 | CLA | C3D-C4D-ND | 4.08 | 116.84 | 110.24 |
| 12 | cB | 938 | CLA | C3D-C4D-ND | 4.08 | 116.84 | 110.24 |
| 12 | aB | 910 | CLA | C1C-C2C-C3C | -4.08 | 102.66 | 106.96 |
| 12 | cB | 918 | CLA | C3D-C4D-ND | 4.08 | 116.84 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 901 | CLA | CAA-C2A-C3A | -4.08 | 101.62 | 112.78 |
| 12 | bA | 838 | CLA | C3C-C4C-NC | 4.08 | 115.14 | 110.57 |
| 12 | aA | 841 | CLA | C3D-C4D-ND | 4.08 | 116.83 | 110.24 |
| 12 | aB | 930 | CLA | C3C-C4C-NC | 4.07 | 115.14 | 110.57 |
| 12 | bA | 810 | CLA | C3C-C4C-NC | 4.07 | 115.14 | 110.57 |
| 12 | aA | 821 | CLA | C3D-C4D-ND | 4.07 | 116.83 | 110.24 |
| 12 | aA | 837 | CLA | CMB-C2B-C3B | 4.07 | 132.29 | 124.68 |
| 12 | cA | 830 | CLA | C3B-C4B-NB | 4.07 | 114.47 | 109.21 |
| 12 | aA | 830 | CLA | C3B-C4B-NB | 4.07 | 114.47 | 109.21 |
| 12 | bB | 910 | CLA | C3D-C4D-ND | 4.07 | 116.82 | 110.24 |
| 12 | cA | 832 | CLA | C3D-C4D-ND | 4.07 | 116.82 | 110.24 |
| 12 | aB | 904 | CLA | C3C-C4C-NC | 4.07 | 115.13 | 110.57 |
| 12 | cA | 809 | CLA | C3C-C4C-NC | 4.07 | 115.13 | 110.57 |
| 12 | bB | 918 | CLA | C3D-C4D-ND | 4.06 | 116.81 | 110.24 |
| 12 | aB | 907 | CLA | C1D-CHD-C4C | -4.06 | 117.29 | 126.06 |
| 12 | aA | 822 | CLA | C1C-C2C-C3C | -4.06 | 102.69 | 106.96 |
| 12 | cA | 819 | CLA | C4A-NA-C1A | -4.06 | 104.88 | 106.71 |
| 12 | cB | 936 | CLA | C4A-NA-C1A | -4.06 | 104.88 | 106.71 |
| 12 | aA | 835 | CLA | O2D-CGD-CBD | 4.06 | 118.48 | 111.27 |
| 12 | cB | 910 | CLA | C3D-C4D-ND | 4.06 | 116.80 | 110.24 |
| 12 | aA | 809 | CLA | C3C-C4C-NC | 4.06 | 115.12 | 110.57 |
| 12 | aA | 810 | CLA | C3C-C4C-NC | 4.06 | 115.12 | 110.57 |
| 16 | bB | 948 | LHG | O4-P-O5 | 4.06 | 132.29 | 112.24 |
| 12 | bB | 949 | CLA | C4A-NA-C1A | -4.05 | 104.88 | 106.71 |
| 12 | aB | 910 | CLA | C3D-C4D-ND | 4.05 | 116.80 | 110.24 |
| 12 | cB | 907 | CLA | C1D-CHD-C4C | -4.05 | 117.31 | 126.06 |
| 12 | aA | 807 | CLA | C1D-CHD-C4C | -4.05 | 117.31 | 126.06 |
| 12 | bB | 907 | CLA | C1D-CHD-C4C | -4.05 | 117.32 | 126.06 |
| 12 | cA | 811 | CLA | C3D-C4D-ND | 4.05 | 116.79 | 110.24 |
| 16 | cB | 948 | LHG | O4-P-O5 | 4.05 | 132.27 | 112.24 |
| 12 | bA | 809 | CLA | C3C-C4C-NC | 4.05 | 115.11 | 110.57 |
| 16 | aB | 948 | LHG | O4-P-O5 | 4.05 | 132.27 | 112.24 |
| 12 | aA | 835 | CLA | C4A-NA-C1A | -4.05 | 104.89 | 106.71 |
| 12 | bA | 832 | CLA | C3D-C4D-ND | 4.05 | 116.79 | 110.24 |
| 12 | bA | 811 | CLA | C3D-C4D-ND | 4.05 | 116.79 | 110.24 |
| 12 | cA | 802 | CLA | C3D-C4D-ND | 4.05 | 116.78 | 110.24 |
| 12 | aA | 802 | CLA | C3D-C4D-ND | 4.04 | 116.78 | 110.24 |
| 12 | bA | 830 | CLA | C3B-C4B-NB | 4.04 | 114.44 | 109.21 |
| 12 | cB | 918 | CLA | C4A-NA-C1A | -4.04 | 104.89 | 106.71 |
| 12 | aA | 820 | CLA | C3D-C4D-ND | 4.04 | 116.78 | 110.24 |
| 12 | cA | 835 | CLA | O2D-CGD-CBD | 4.04 | 118.45 | 111.27 |
| 12 | cB | 949 | CLA | C3D-C4D-ND | 4.04 | 116.78 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 949 | CLA | C3D-C4D-ND | 4.04 | 116.78 | 110.24 |
| 12 | aA | 821 | CLA | O2D-CGD-CBD | 4.04 | 118.45 | 111.27 |
| 12 | cA | 838 | CLA | C3C-C4C-NC | 4.04 | 115.10 | 110.57 |
| 12 | aA | 819 | CLA | C3D-C4D-ND | 4.04 | 116.77 | 110.24 |
| 12 | aB | 949 | CLA | C3C-C4C-NC | 4.04 | 115.10 | 110.57 |
| 12 | cB | 916 | CLA | C3C-C4C-NC | 4.04 | 115.10 | 110.57 |
| 12 | cA | 807 | CLA | C1D-CHD-C4C | -4.04 | 117.35 | 126.06 |
| 12 | bA | 807 | CLA | C1D-CHD-C4C | -4.04 | 117.35 | 126.06 |
| 12 | aA | 832 | CLA | C3D-C4D-ND | 4.04 | 116.77 | 110.24 |
| 12 | bB | 904 | CLA | C4A-NA-C1A | -4.03 | 104.89 | 106.71 |
| 12 | bA | 821 | CLA | C3D-C4D-ND | 4.03 | 116.76 | 110.24 |
| 12 | aL | 202 | CLA | C4A-NA-C1A | -4.03 | 104.89 | 106.71 |
| 12 | cA | 819 | CLA | C3D-C4D-ND | 4.03 | 116.76 | 110.24 |
| 12 | bA | 819 | CLA | C3D-C4D-ND | 4.03 | 116.76 | 110.24 |
| 12 | bA | 821 | CLA | O2D-CGD-CBD | 4.03 | 118.43 | 111.27 |
| 12 | aB | 929 | CLA | C1C-C2C-C3C | -4.03 | 102.72 | 106.96 |
| 12 | cB | 927 | CLA | C3D-C4D-ND | 4.03 | 116.75 | 110.24 |
| 12 | bA | 835 | CLA | O2D-CGD-CBD | 4.03 | 118.42 | 111.27 |
| 12 | bB | 921 | CLA | C1C-C2C-C3C | -4.03 | 102.72 | 106.96 |
| 12 | aA | 816 | CLA | C1D-CHD-C4C | -4.03 | 117.37 | 126.06 |
| 12 | cA | 821 | CLA | C3D-C4D-ND | 4.02 | 116.75 | 110.24 |
| 12 | bA | 820 | CLA | C3D-C4D-ND | 4.02 | 116.75 | 110.24 |
| 12 | bA | 816 | CLA | C1D-CHD-C4C | -4.02 | 117.38 | 126.06 |
| 12 | aA | 834 | CLA | O2D-CGD-O1D | -4.02 | 115.98 | 123.84 |
| 12 | cB | 935 | CLA | C1C-C2C-C3C | -4.02 | 102.73 | 106.96 |
| 12 | cB | 949 | CLA | C3C-C4C-NC | 4.02 | 115.08 | 110.57 |
| 12 | cA | 822 | CLA | C1C-C2C-C3C | -4.02 | 102.73 | 106.96 |
| 12 | aB | 921 | CLA | C3C-C4C-NC | 4.02 | 115.08 | 110.57 |
| 12 | bA | 836 | CLA | C3D-C4D-ND | 4.02 | 116.74 | 110.24 |
| 12 | cA | 838 | CLA | C1C-C2C-C3C | -4.02 | 102.73 | 106.96 |
| 12 | cA | 821 | CLA | O2D-CGD-CBD | 4.02 | 118.41 | 111.27 |
| 12 | cA | 836 | CLA | C3D-C4D-ND | 4.02 | 116.73 | 110.24 |
| 12 | cA | 820 | CLA | C3D-C4D-ND | 4.02 | 116.73 | 110.24 |
| 12 | aB | 936 | CLA | C4A-NA-C1A | -4.01 | 104.90 | 106.71 |
| 12 | cA | 839 | CLA | C1C-C2C-C3C | -4.01 | 102.74 | 106.96 |
| 12 | aB | 949 | CLA | C3D-C4D-ND | 4.01 | 116.73 | 110.24 |
| 12 | bA | 802 | CLA | C3D-C4D-ND | 4.01 | 116.73 | 110.24 |
| 12 | cA | 816 | CLA | C1D-CHD-C4C | -4.01 | 117.41 | 126.06 |
| 12 | cA | 834 | CLA | O2D-CGD-O1D | -4.01 | 116.00 | 123.84 |
| 12 | cB | 929 | CLA | C1C-C2C-C3C | -4.01 | 102.74 | 106.96 |
| 12 | bA | 810 | CLA | C4A-NA-C1A | -4.01 | 104.90 | 106.71 |
| 12 | aA | 839 | CLA | C1C-C2C-C3C | -4.01 | 102.74 | 106.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 836 | CLA | C3D-C4D-ND | 4.01 | 116.72 | 110.24 |
| 12 | aA | 819 | CLA | C3C-C4C-NC | 4.00 | 115.06 | 110.57 |
| 12 | bA | 834 | CLA | O2D-CGD-O1D | -4.00 | 116.01 | 123.84 |
| 12 | aB | 939 | CLA | C3B-C4B-NB | 4.00 | 114.39 | 109.21 |
| 12 | bA | 839 | CLA | C1C-C2C-C3C | -4.00 | 102.75 | 106.96 |
| 12 | aA | 811 | CLA | C3D-C4D-ND | 4.00 | 116.71 | 110.24 |
| 12 | bB | 936 | CLA | C4A-NA-C1A | -4.00 | 104.91 | 106.71 |
| 12 | cA | 810 | CLA | C4A-NA-C1A | -4.00 | 104.91 | 106.71 |
| 12 | aB | 927 | CLA | C3D-C4D-ND | 4.00 | 116.71 | 110.24 |
| 12 | cA | 828 | CLA | C3B-C4B-NB | 4.00 | 114.38 | 109.21 |
| 12 | aA | 814 | CLA | C3B-C4B-NB | 4.00 | 114.38 | 109.21 |
| 12 | bB | 921 | CLA | C3C-C4C-NC | 4.00 | 115.06 | 110.57 |
| 12 | cA | 837 | CLA | C4-C3-C5 | 4.00 | 120.56 | 115.98 |
| 12 | aB | 914 | CLA | C3D-C4D-ND | 4.00 | 116.71 | 110.24 |
| 12 | aA | 814 | CLA | C3D-C4D-ND | 4.00 | 116.71 | 110.24 |
| 12 | aA | 838 | CLA | C3C-C4C-NC | 4.00 | 115.06 | 110.57 |
| 12 | bB | 935 | CLA | C1C-C2C-C3C | -4.00 | 102.75 | 106.96 |
| 12 | bA | 814 | CLA | C3B-C4B-NB | 4.00 | 114.38 | 109.21 |
| 12 | aA | 838 | CLA | C1C-C2C-C3C | -4.00 | 102.75 | 106.96 |
| 12 | bB | 934 | CLA | C3D-C4D-ND | 4.00 | 116.70 | 110.24 |
| 12 | aB | 935 | CLA | C1C-C2C-C3C | -4.00 | 102.76 | 106.96 |
| 12 | aA | 837 | CLA | C4-C3-C5 | 3.99 | 120.55 | 115.98 |
| 12 | bA | 828 | CLA | C3B-C4B-NB | 3.99 | 114.37 | 109.21 |
| 12 | bB | 950 | CLA | CHD-C1D-ND | -3.99 | 120.78 | 124.45 |
| 12 | cA | 814 | CLA | C3D-C4D-ND | 3.99 | 116.69 | 110.24 |
| 12 | cB | 901 | CLA | O2D-CGD-CBD | 3.99 | 118.36 | 111.27 |
| 12 | cB | 913 | CLA | C3B-C4B-NB | 3.99 | 114.37 | 109.21 |
| 12 | cA | 853 | CLA | C4A-NA-C1A | -3.99 | 104.91 | 106.71 |
| 11 | aA | 801 | CL0 | CMA-C3A-C4A | -3.99 | 101.05 | 111.77 |
| 12 | aA | 828 | CLA | C3B-C4B-NB | 3.99 | 114.37 | 109.21 |
| 12 | cB | 939 | CLA | C3B-C4B-NB | 3.99 | 114.36 | 109.21 |
| 12 | aA | 810 | CLA | C4A-NA-C1A | -3.99 | 104.91 | 106.71 |
| 11 | bA | 801 | CL0 | CMA-C3A-C4A | -3.99 | 101.06 | 111.77 |
| 12 | cA | 819 | CLA | C1C-C2C-C3C | -3.98 | 102.77 | 106.96 |
| 12 | cA | 819 | CLA | O2A-CGA-CBA | 3.98 | 124.41 | 111.91 |
| 12 | bB | 916 | CLA | C3C-C4C-NC | 3.98 | 115.04 | 110.57 |
| 12 | aB | 904 | CLA | C3D-C4D-ND | 3.98 | 116.68 | 110.24 |
| 12 | cA | 814 | CLA | C3B-C4B-NB | 3.98 | 114.36 | 109.21 |
| 12 | bB | 949 | CLA | C3C-C4C-NC | 3.98 | 115.04 | 110.57 |
| 12 | bB | 901 | CLA | O2D-CGD-CBD | 3.98 | 118.34 | 111.27 |
| 12 | bA | 814 | CLA | C3D-C4D-ND | 3.98 | 116.68 | 110.24 |
| 12 | bB | 914 | CLA | C3D-C4D-ND | 3.98 | 116.68 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 918 | CLA | C3C-C4C-NC | 3.98 | 115.03 | 110.57 |
| 12 | bB | 927 | CLA | C1C-C2C-C3C | -3.98 | 102.77 | 106.96 |
| 12 | aA | 843 | CLA | C1C-C2C-C3C | -3.98 | 102.77 | 106.96 |
| 12 | aB | 921 | CLA | C1C-C2C-C3C | -3.98 | 102.77 | 106.96 |
| 12 | cA | 820 | CLA | C3C-C4C-NC | 3.98 | 115.03 | 110.57 |
| 12 | bB | 918 | CLA | C3C-C4C-NC | 3.98 | 115.03 | 110.57 |
| 12 | bB | 927 | CLA | C3D-C4D-ND | 3.98 | 116.67 | 110.24 |
| 12 | bA | 819 | CLA | C3C-C4C-NC | 3.98 | 115.03 | 110.57 |
| 12 | aB | 913 | CLA | C3B-C4B-NB | 3.98 | 114.35 | 109.21 |
| 11 | cA | 801 | CL0 | CMA-C3A-C4A | -3.97 | 101.09 | 111.77 |
| 12 | aA | 844 | CLA | C3B-C4B-NB | 3.97 | 114.35 | 109.21 |
| 12 | cB | 934 | CLA | C3D-C4D-ND | 3.97 | 116.67 | 110.24 |
| 12 | cB | 921 | CLA | C1C-C2C-C3C | -3.97 | 102.78 | 106.96 |
| 12 | bA | 838 | CLA | C1C-C2C-C3C | -3.97 | 102.78 | 106.96 |
| 12 | aA | 819 | CLA | O2A-CGA-CBA | 3.97 | 124.36 | 111.91 |
| 12 | cA | 835 | CLA | C4A-NA-C1A | -3.97 | 104.92 | 106.71 |
| 12 | aB | 950 | CLA | C3D-C4D-ND | 3.97 | 116.66 | 110.24 |
| 12 | aA | 805 | CLA | C3D-C4D-ND | 3.97 | 116.66 | 110.24 |
| 12 | bB | 939 | CLA | C3B-C4B-NB | 3.97 | 114.34 | 109.21 |
| 12 | cA | 819 | CLA | C3C-C4C-NC | 3.97 | 115.02 | 110.57 |
| 12 | cB | 921 | CLA | C3C-C4C-NC | 3.97 | 115.02 | 110.57 |
| 12 | bA | 819 | CLA | O2A-CGA-CBA | 3.97 | 124.36 | 111.91 |
| 12 | aA | 833 | CLA | C3C-C4C-NC | 3.97 | 115.02 | 110.57 |
| 12 | bA | 811 | CLA | C3C-C4C-NC | 3.97 | 115.02 | 110.57 |
| 12 | bA | 824 | CLA | CAC-C3C-C4C | 3.96 | 129.95 | 124.81 |
| 12 | bB | 929 | CLA | C1C-C2C-C3C | -3.96 | 102.79 | 106.96 |
| 12 | cL | 202 | CLA | C1C-C2C-C3C | -3.96 | 102.79 | 106.96 |
| 12 | bB | 913 | CLA | C3B-C4B-NB | 3.96 | 114.33 | 109.21 |
| 12 | bB | 933 | CLA | C3D-C4D-ND | 3.96 | 116.65 | 110.24 |
| 12 | cA | 805 | CLA | C3D-C4D-ND | 3.96 | 116.65 | 110.24 |
| 12 | bA | 853 | CLA | C4A-NA-C1A | -3.96 | 104.92 | 106.71 |
| 12 | aB | 923 | CLA | C3D-C4D-ND | 3.96 | 116.64 | 110.24 |
| 12 | cB | 914 | CLA | C3D-C4D-ND | 3.96 | 116.64 | 110.24 |
| 12 | aB | 916 | CLA | C3C-C4C-NC | 3.96 | 115.01 | 110.57 |
| 12 | bA | 820 | CLA | C3C-C4C-NC | 3.96 | 115.01 | 110.57 |
| 12 | bA | 833 | CLA | C3C-C4C-NC | 3.96 | 115.01 | 110.57 |
| 12 | bB | 950 | CLA | C3B-C4B-NB | 3.96 | 114.33 | 109.21 |
| 12 | bA | 837 | CLA | C4-C3-C5 | 3.96 | 120.51 | 115.98 |
| 12 | bA | 812 | CLA | C3C-C4C-NC | 3.96 | 115.01 | 110.57 |
| 12 | bB | 904 | CLA | C3D-C4D-ND | 3.95 | 116.64 | 110.24 |
| 11 | cA | 801 | CL0 | CMA-C3A-C2A | -3.95 | 97.88 | 113.83 |
| 12 | cB | 904 | CLA | C3D-C4D-ND | 3.95 | 116.63 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aL | 202 | CLA | C1C-C2C-C3C | -3.95 | 102.80 | 106.96 |
| 12 | bB | 911 | CLA | C1C-C2C-C3C | -3.95 | 102.80 | 106.96 |
| 12 | cA | 808 | CLA | C4A-NA-C1A | -3.95 | 104.93 | 106.71 |
| 12 | aA | 820 | CLA | C3C-C4C-NC | 3.95 | 115.00 | 110.57 |
| 11 | aA | 801 | CL0 | CMA-C3A-C2A | -3.95 | 97.90 | 113.83 |
| 12 | aA | 844 | CLA | C3D-C4D-ND | 3.95 | 116.62 | 110.24 |
| 12 | aB | 934 | CLA | C3D-C4D-ND | 3.95 | 116.62 | 110.24 |
| 12 | bA | 805 | CLA | C3D-C4D-ND | 3.95 | 116.62 | 110.24 |
| 11 | bA | 801 | CL0 | CMA-C3A-C2A | -3.95 | 97.90 | 113.83 |
| 12 | cB | 923 | CLA | C3D-C4D-ND | 3.95 | 116.62 | 110.24 |
| 12 | aA | 827 | CLA | C1D-CHD-C4C | -3.95 | 117.54 | 126.06 |
| 12 | bB | 902 | CLA | C3D-C4D-ND | 3.95 | 116.62 | 110.24 |
| 12 | cA | 839 | CLA | C3D-C4D-ND | 3.95 | 116.62 | 110.24 |
| 12 | cB | 933 | CLA | C3D-C4D-ND | 3.95 | 116.62 | 110.24 |
| 12 | aB | 918 | CLA | C3C-C4C-NC | 3.95 | 115.00 | 110.57 |
| 12 | aB | 901 | CLA | O2D-CGD-CBD | 3.94 | 118.28 | 111.27 |
| 12 | bA | 806 | CLA | C3B-C4B-NB | 3.94 | 114.31 | 109.21 |
| 12 | cA | 833 | CLA | C3C-C4C-NC | 3.94 | 115.00 | 110.57 |
| 12 | aA | 819 | CLA | C1C-C2C-C3C | -3.94 | 102.81 | 106.96 |
| 12 | aA | 811 | CLA | C3C-C4C-NC | 3.94 | 114.99 | 110.57 |
| 12 | bA | 827 | CLA | C1D-CHD-C4C | -3.94 | 117.55 | 126.06 |
| 12 | cB | 902 | CLA | C3D-C4D-ND | 3.94 | 116.61 | 110.24 |
| 12 | bB | 924 | CLA | C3C-C4C-NC | 3.94 | 114.99 | 110.57 |
| 12 | cA | 827 | CLA | C1D-CHD-C4C | -3.94 | 117.56 | 126.06 |
| 12 | aB | 902 | CLA | C2C-C1C-NC | 3.94 | 113.66 | 109.97 |
| 12 | aB | 902 | CLA | C3D-C4D-ND | 3.94 | 116.61 | 110.24 |
| 12 | bA | 839 | CLA | C3D-C4D-ND | 3.94 | 116.61 | 110.24 |
| 12 | aA | 812 | CLA | C1C-C2C-C3C | -3.94 | 102.82 | 106.96 |
| 12 | bB | 950 | CLA | C3D-C4D-ND | 3.94 | 116.61 | 110.24 |
| 12 | aB | 912 | CLA | C3D-C4D-ND | 3.94 | 116.61 | 110.24 |
| 12 | cA | 828 | CLA | C3D-C4D-ND | 3.94 | 116.61 | 110.24 |
| 12 | bL | 202 | CLA | C1C-C2C-C3C | -3.94 | 102.82 | 106.96 |
| 12 | cB | 902 | CLA | C2C-C1C-NC | 3.94 | 113.66 | 109.97 |
| 12 | aB | 913 | CLA | C1C-C2C-C3C | -3.94 | 102.82 | 106.96 |
| 12 | cB | 927 | CLA | C1C-C2C-C3C | -3.94 | 102.82 | 106.96 |
| 12 | aA | 806 | CLA | C3B-C4B-NB | 3.93 | 114.30 | 109.21 |
| 12 | cA | 812 | CLA | C1C-C2C-C3C | -3.93 | 102.82 | 106.96 |
| 12 | bA | 826 | CLA | C3C-C4C-NC | 3.93 | 114.98 | 110.57 |
| 12 | aA | 808 | CLA | C1C-C2C-C3C | -3.93 | 102.82 | 106.96 |
| 12 | bA | 819 | CLA | C1C-C2C-C3C | -3.93 | 102.82 | 106.96 |
| 12 | cB | 903 | CLA | C4-C3-C5 | 3.93 | 120.48 | 115.98 |
| 12 | aB | 924 | CLA | C3C-C4C-NC | 3.93 | 114.98 | 110.57 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 904 | CLA | C4A-NA-C1A | -3.93 | 104.94 | 106.71 |
| 12 | aA | 828 | CLA | C3D-C4D-ND | 3.93 | 116.59 | 110.24 |
| 12 | bB | 923 | CLA | C3D-C4D-ND | 3.93 | 116.59 | 110.24 |
| 12 | bA | 843 | CLA | C1C-C2C-C3C | -3.93 | 102.83 | 106.96 |
| 12 | cA | 811 | CLA | C3C-C4C-NC | 3.93 | 114.97 | 110.57 |
| 12 | cB | 912 | CLA | C3D-C4D-ND | 3.93 | 116.59 | 110.24 |
| 12 | bB | 902 | CLA | C4C-C3C-C2C | -3.93 | 101.18 | 106.90 |
| 12 | bA | 812 | CLA | C1C-C2C-C3C | -3.92 | 102.83 | 106.96 |
| 12 | cB | 913 | CLA | C1C-C2C-C3C | -3.92 | 102.83 | 106.96 |
| 12 | bA | 828 | CLA | C3D-C4D-ND | 3.92 | 116.59 | 110.24 |
| 12 | bB | 903 | CLA | C4-C3-C5 | 3.92 | 120.47 | 115.98 |
| 12 | aA | 834 | CLA | C3D-C4D-ND | 3.92 | 116.58 | 110.24 |
| 12 | aB | 922 | CLA | C3D-C4D-ND | 3.92 | 116.58 | 110.24 |
| 12 | aB | 950 | CLA | C3B-C4B-NB | 3.92 | 114.28 | 109.21 |
| 12 | cA | 818 | CLA | C3D-C4D-ND | 3.92 | 116.58 | 110.24 |
| 12 | aA | 839 | CLA | C3D-C4D-ND | 3.92 | 116.58 | 110.24 |
| 15 | aL | 201 | BCR | C2-C1-C6 | 3.92 | 116.52 | 110.48 |
| 12 | aB | 911 | CLA | C1C-C2C-C3C | -3.92 | 102.83 | 106.96 |
| 12 | aB | 903 | CLA | C4-C3-C5 | 3.92 | 120.47 | 115.98 |
| 12 | aB | 927 | CLA | C1C-C2C-C3C | -3.92 | 102.83 | 106.96 |
| 12 | bA | 808 | CLA | C1C-C2C-C3C | -3.92 | 102.83 | 106.96 |
| 12 | bA | 833 | CLA | C1C-C2C-C3C | -3.92 | 102.84 | 106.96 |
| 12 | cA | 843 | CLA | C1C-C2C-C3C | -3.92 | 102.84 | 106.96 |
| 12 | bB | 909 | CLA | C1C-C2C-C3C | -3.92 | 102.84 | 106.96 |
| 12 | aA | 812 | CLA | C3C-C4C-NC | 3.92 | 114.97 | 110.57 |
| 12 | aB | 949 | CLA | C4A-NA-C1A | -3.92 | 104.94 | 106.71 |
| 12 | cA | 806 | CLA | C3B-C4B-NB | 3.92 | 114.27 | 109.21 |
| 12 | bB | 912 | CLA | C3D-C4D-ND | 3.92 | 116.57 | 110.24 |
| 12 | cA | 824 | CLA | CAC-C3C-C4C | 3.92 | 129.89 | 124.81 |
| 12 | aA | 844 | CLA | CHD-C1D-ND | -3.92 | 120.86 | 124.45 |
| 12 | cB | 949 | CLA | C4A-NA-C1A | -3.91 | 104.95 | 106.71 |
| 12 | cB | 936 | CLA | C3C-C4C-NC | 3.91 | 114.96 | 110.57 |
| 12 | bA | 809 | CLA | C3D-C4D-ND | 3.91 | 116.57 | 110.24 |
| 12 | aB | 904 | CLA | C3B-C4B-NB | 3.91 | 114.27 | 109.21 |
| 12 | aB | 933 | CLA | C3D-C4D-ND | 3.91 | 116.57 | 110.24 |
| 12 | aA | 824 | CLA | CAC-C3C-C4C | 3.91 | 129.88 | 124.81 |
| 12 | cA | 826 | CLA | C3C-C4C-NC | 3.91 | 114.96 | 110.57 |
| 12 | aA | 809 | CLA | C3D-C4D-ND | 3.91 | 116.56 | 110.24 |
| 12 | bA | 835 | CLA | C4A-NA-C1A | -3.91 | 104.95 | 106.71 |
| 12 | aB | 950 | CLA | CHD-C1D-ND | -3.91 | 120.86 | 124.45 |
| 12 | cA | 804 | CLA | C1-O2A-CGA | 3.91 | 126.69 | 116.44 |
| 12 | cA | 809 | CLA | C3D-C4D-ND | 3.91 | 116.56 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 936 | CLA | C3C-C4C-NC | 3.90 | 114.95 | 110.57 |
| 12 | aA | 842 | CLA | C3D-C4D-ND | 3.90 | 116.55 | 110.24 |
| 15 | cL | 201 | BCR | C2-C1-C6 | 3.90 | 116.49 | 110.48 |
| 12 | bA | 808 | CLA | C4A-NA-C1A | -3.90 | 104.95 | 106.71 |
| 12 | bA | 832 | CLA | C3C-C4C-NC | 3.90 | 114.95 | 110.57 |
| 12 | cA | 812 | CLA | C3C-C4C-NC | 3.90 | 114.94 | 110.57 |
| 12 | bA | 818 | CLA | C3D-C4D-ND | 3.90 | 116.55 | 110.24 |
| 12 | bB | 913 | CLA | C1C-C2C-C3C | -3.90 | 102.86 | 106.96 |
| 12 | cA | 808 | CLA | C1C-C2C-C3C | -3.90 | 102.86 | 106.96 |
| 12 | aA | 804 | CLA | C1-O2A-CGA | 3.90 | 126.67 | 116.44 |
| 12 | bA | 804 | CLA | C1-O2A-CGA | 3.90 | 126.67 | 116.44 |
| 12 | bB | 937 | CLA | C4A-NA-C1A | -3.89 | 104.95 | 106.71 |
| 12 | aA | 833 | CLA | C1C-C2C-C3C | -3.89 | 102.86 | 106.96 |
| 12 | cA | 835 | CLA | C1C-C2C-C3C | -3.89 | 102.86 | 106.96 |
| 12 | cB | 930 | CLA | C1C-C2C-C3C | -3.89 | 102.86 | 106.96 |
| 12 | cA | 834 | CLA | C3D-C4D-ND | 3.89 | 116.53 | 110.24 |
| 12 | cB | 904 | CLA | C3B-C4B-NB | 3.89 | 114.24 | 109.21 |
| 12 | aA | 826 | CLA | C3C-C4C-NC | 3.89 | 114.94 | 110.57 |
| 12 | cA | 833 | CLA | C1C-C2C-C3C | -3.89 | 102.86 | 106.96 |
| 12 | bB | 904 | CLA | C3B-C4B-NB | 3.89 | 114.24 | 109.21 |
| 12 | aB | 902 | CLA | C4C-C3C-C2C | -3.89 | 101.23 | 106.90 |
| 12 | aB | 927 | CLA | CHD-C1D-ND | -3.89 | 120.88 | 124.45 |
| 12 | cA | 832 | CLA | C3C-C4C-NC | 3.89 | 114.94 | 110.57 |
| 12 | cA | 842 | CLA | C3D-C4D-ND | 3.89 | 116.53 | 110.24 |
| 12 | aA | 832 | CLA | C3C-C4C-NC | 3.89 | 114.93 | 110.57 |
| 12 | bB | 919 | CLA | C3C-C4C-NC | 3.89 | 114.93 | 110.57 |
| 12 | cB | 937 | CLA | C4A-NA-C1A | -3.89 | 104.96 | 106.71 |
| 12 | cB | 927 | CLA | CHD-C1D-ND | -3.89 | 120.88 | 124.45 |
| 12 | aB | 919 | CLA | C3C-C4C-NC | 3.89 | 114.93 | 110.57 |
| 12 | aA | 823 | CLA | C1C-C2C-C3C | -3.89 | 102.87 | 106.96 |
| 12 | bB | 902 | CLA | C2C-C1C-NC | 3.89 | 113.61 | 109.97 |
| 12 | aA | 808 | CLA | C4A-NA-C1A | -3.89 | 104.96 | 106.71 |
| 13 | bA | 844 | 1L3 | C24-C25-C26 | -3.89 | 118.30 | 127.66 |
| 12 | bA | 834 | CLA | C3D-C4D-ND | 3.89 | 116.53 | 110.24 |
| 12 | bB | 920 | CLA | C3C-C4C-NC | 3.89 | 114.93 | 110.57 |
| 12 | bA | 837 | CLA | CAC-C3C-C4C | 3.89 | 129.85 | 124.81 |
| 12 | cB | 924 | CLA | C3C-C4C-NC | 3.89 | 114.93 | 110.57 |
| 12 | cA | 823 | CLA | C1C-C2C-C3C | -3.88 | 102.87 | 106.96 |
| 12 | bA | 842 | CLA | C3D-C4D-ND | 3.88 | 116.52 | 110.24 |
| 12 | bA | 823 | CLA | C1C-C2C-C3C | -3.88 | 102.87 | 106.96 |
| 12 | aA | 818 | CLA | C3D-C4D-ND | 3.88 | 116.52 | 110.24 |
| 12 | aB | 916 | CLA | C2C-C1C-NC | 3.88 | 113.61 | 109.97 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 936 | CLA | C3C-C4C-NC | 3.88 | 114.93 | 110.57 |
| 12 | aA | 854 | CLA | C3D-C4D-ND | 3.88 | 116.52 | 110.24 |
| 12 | cB | 909 | CLA | C1C-C2C-C3C | -3.88 | 102.88 | 106.96 |
| 12 | bB | 904 | CLA | C1C-C2C-C3C | -3.88 | 102.88 | 106.96 |
| 15 | bL | 201 | BCR | C2-C1-C6 | 3.88 | 116.45 | 110.48 |
| 12 | bA | 853 | CLA | C3D-C4D-ND | 3.87 | 116.50 | 110.24 |
| 12 | bA | 837 | CLA | C1D-CHD-C4C | -3.87 | 117.70 | 126.06 |
| 12 | aA | 837 | CLA | CAC-C3C-C4C | 3.87 | 129.83 | 124.81 |
| 12 | aB | 920 | CLA | C3C-C4C-NC | 3.87 | 114.91 | 110.57 |
| 12 | bA | 835 | CLA | C1C-C2C-C3C | -3.87 | 102.89 | 106.96 |
| 12 | cB | 902 | CLA | C4C-C3C-C2C | -3.87 | 101.26 | 106.90 |
| 12 | cB | 920 | CLA | C3C-C4C-NC | 3.87 | 114.91 | 110.57 |
| 12 | cB | 928 | CLA | CAC-C3C-C4C | 3.87 | 129.83 | 124.81 |
| 12 | aB | 909 | CLA | C1C-C2C-C3C | -3.86 | 102.89 | 106.96 |
| 12 | bB | 930 | CLA | C1C-C2C-C3C | -3.86 | 102.89 | 106.96 |
| 12 | cB | 919 | CLA | C3C-C4C-NC | 3.86 | 114.90 | 110.57 |
| 12 | aB | 935 | CLA | C1D-CHD-C4C | -3.86 | 117.72 | 126.06 |
| 13 | cA | 844 | 1L3 | C24-C25-C26 | -3.86 | 118.36 | 127.66 |
| 12 | bB | 922 | CLA | C3D-C4D-ND | 3.86 | 116.49 | 110.24 |
| 11 | aA | 801 | CL0 | C3D-C4D-ND | 3.86 | 116.48 | 110.24 |
| 12 | cB | 911 | CLA | C1C-C2C-C3C | -3.86 | 102.90 | 106.96 |
| 12 | bB | 916 | CLA | C2C-C1C-NC | 3.86 | 113.59 | 109.97 |
| 12 | aB | 904 | CLA | C1C-C2C-C3C | -3.86 | 102.90 | 106.96 |
| 12 | cB | 904 | CLA | C1C-C2C-C3C | -3.86 | 102.90 | 106.96 |
| 12 | cB | 935 | CLA | C1D-CHD-C4C | -3.86 | 117.74 | 126.06 |
| 11 | bA | 801 | CL0 | C3D-C4D-ND | 3.86 | 116.48 | 110.24 |
| 12 | cB | 936 | CLA | C1C-C2C-C3C | -3.86 | 102.90 | 106.96 |
| 12 | cA | 837 | CLA | C1D-CHD-C4C | -3.86 | 117.74 | 126.06 |
| 12 | aA | 837 | CLA | C1D-CHD-C4C | -3.85 | 117.74 | 126.06 |
| 13 | aA | 845 | 1L3 | C24-C25-C26 | -3.85 | 118.38 | 127.66 |
| 12 | cA | 853 | CLA | C3D-C4D-ND | 3.85 | 116.47 | 110.24 |
| 12 | cA | 837 | CLA | CAC-C3C-C4C | 3.85 | 129.81 | 124.81 |
| 12 | cB | 922 | CLA | C3D-C4D-ND | 3.85 | 116.47 | 110.24 |
| 12 | aA | 835 | CLA | C1C-C2C-C3C | -3.85 | 102.91 | 106.96 |
| 12 | bB | 924 | CLA | C3B-C4B-NB | 3.85 | 114.19 | 109.21 |
| 12 | bB | 935 | CLA | C1D-CHD-C4C | -3.85 | 117.75 | 126.06 |
| 12 | cA | 833 | CLA | C3D-C4D-ND | 3.84 | 116.46 | 110.24 |
| 12 | aB | 930 | CLA | C1C-C2C-C3C | -3.84 | 102.92 | 106.96 |
| 12 | aB | 928 | CLA | CAC-C3C-C4C | 3.84 | 129.79 | 124.81 |
| 12 | bB | 908 | CLA | C3C-C4C-NC | 3.84 | 114.88 | 110.57 |
| 12 | bB | 933 | CLA | C1D-CHD-C4C | -3.84 | 117.78 | 126.06 |
| 12 | aB | 924 | CLA | C3B-C4B-NB | 3.84 | 114.17 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 906 | CLA | C1C-C2C-C3C | -3.84 | 102.92 | 106.96 |
| 11 | cA | 801 | CL0 | C3D-C4D-ND | 3.84 | 116.44 | 110.24 |
| 12 | bA | 812 | CLA | C3D-C4D-ND | 3.84 | 116.44 | 110.24 |
| 12 | aA | 822 | CLA | C4A-NA-C1A | -3.84 | 104.98 | 106.71 |
| 12 | bB | 906 | CLA | C1C-C2C-C3C | -3.84 | 102.92 | 106.96 |
| 12 | bA | 805 | CLA | C4A-NA-C1A | -3.83 | 104.98 | 106.71 |
| 12 | bB | 927 | CLA | CHD-C1D-ND | -3.83 | 120.93 | 124.45 |
| 12 | cA | 813 | CLA | C1D-CHD-C4C | -3.83 | 117.79 | 126.06 |
| 12 | cB | 927 | CLA | C3B-C4B-NB | 3.83 | 114.16 | 109.21 |
| 12 | cB | 908 | CLA | C3C-C4C-NC | 3.83 | 114.87 | 110.57 |
| 12 | bL | 204 | CLA | C3C-C4C-NC | 3.83 | 114.87 | 110.57 |
| 12 | aB | 933 | CLA | C1D-CHD-C4C | -3.83 | 117.80 | 126.06 |
| 12 | cA | 818 | CLA | C1D-CHD-C4C | -3.83 | 117.80 | 126.06 |
| 12 | aA | 833 | CLA | C3D-C4D-ND | 3.83 | 116.43 | 110.24 |
| 12 | aA | 813 | CLA | C3D-C4D-ND | 3.83 | 116.43 | 110.24 |
| 12 | bB | 928 | CLA | CAC-C3C-C4C | 3.83 | 129.77 | 124.81 |
| 12 | cB | 933 | CLA | C1D-CHD-C4C | -3.82 | 117.81 | 126.06 |
| 12 | cA | 818 | CLA | O2D-CGD-CBD | 3.82 | 118.06 | 111.27 |
| 12 | bA | 818 | CLA | C1D-CHD-C4C | -3.82 | 117.81 | 126.06 |
| 12 | aA | 813 | CLA | C1D-CHD-C4C | -3.82 | 117.81 | 126.06 |
| 12 | aB | 906 | CLA | C1C-C2C-C3C | -3.82 | 102.94 | 106.96 |
| 12 | bA | 816 | CLA | C3D-C4D-ND | 3.82 | 116.42 | 110.24 |
| 12 | aB | 909 | CLA | C1D-CHD-C4C | -3.82 | 117.81 | 126.06 |
| 12 | cA | 813 | CLA | C3D-C4D-ND | 3.82 | 116.42 | 110.24 |
| 12 | cB | 916 | CLA | C2C-C1C-NC | 3.82 | 113.55 | 109.97 |
| 12 | aA | 812 | CLA | C3D-C4D-ND | 3.82 | 116.41 | 110.24 |
| 12 | cA | 812 | CLA | C3D-C4D-ND | 3.82 | 116.41 | 110.24 |
| 12 | aA | 818 | CLA | O2D-CGD-CBD | 3.82 | 118.05 | 111.27 |
| 12 | bA | 813 | CLA | C3D-C4D-ND | 3.81 | 116.41 | 110.24 |
| 12 | cB | 949 | CLA | O2D-CGD-O1D | -3.81 | 116.38 | 123.84 |
| 12 | cA | 816 | CLA | C3D-C4D-ND | 3.81 | 116.41 | 110.24 |
| 12 | aA | 818 | CLA | C1D-CHD-C4C | -3.81 | 117.83 | 126.06 |
| 12 | bA | 833 | CLA | C3D-C4D-ND | 3.81 | 116.40 | 110.24 |
| 12 | bB | 928 | CLA | C1C-C2C-C3C | -3.81 | 102.95 | 106.96 |
| 12 | bA | 804 | CLA | C3B-C4B-NB | 3.81 | 114.14 | 109.21 |
| 12 | aB | 936 | CLA | C1C-C2C-C3C | -3.81 | 102.95 | 106.96 |
| 12 | bA | 813 | CLA | C1D-CHD-C4C | -3.81 | 117.84 | 126.06 |
| 12 | bB | 901 | CLA | C3D-C4D-ND | 3.81 | 116.40 | 110.24 |
| 12 | bB | 909 | CLA | C1D-CHD-C4C | -3.81 | 117.84 | 126.06 |
| 12 | cB | 909 | CLA | C1D-CHD-C4C | -3.81 | 117.84 | 126.06 |
| 12 | aA | 816 | CLA | C3D-C4D-ND | 3.81 | 116.40 | 110.24 |
| 12 | cB | 939 | CLA | O2D-CGD-CBD | 3.81 | 118.03 | 111.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 805 | CLA | C4A-NA-C1A | -3.81 | 105.00 | 106.71 |
| 12 | cB | 924 | CLA | C3B-C4B-NB | 3.80 | 114.13 | 109.21 |
| 12 | cA | 827 | CLA | CMB-C2B-C3B | 3.80 | 131.79 | 124.68 |
| 12 | aB | 937 | CLA | C3C-C4C-NC | 3.80 | 114.83 | 110.57 |
| 12 | bB | 926 | CLA | C3D-C4D-ND | 3.80 | 116.39 | 110.24 |
| 12 | bB | 949 | CLA | O2D-CGD-O1D | -3.80 | 116.41 | 123.84 |
| 12 | aA | 827 | CLA | CMB-C2B-C3B | 3.80 | 131.79 | 124.68 |
| 12 | cB | 907 | CLA | C3D-C4D-ND | 3.80 | 116.39 | 110.24 |
| 12 | cA | 839 | CLA | C1D-CHD-C4C | -3.80 | 117.86 | 126.06 |
| 12 | aB | 928 | CLA | C1C-C2C-C3C | -3.80 | 102.96 | 106.96 |
| 12 | aB | 949 | CLA | O2D-CGD-O1D | -3.80 | 116.41 | 123.84 |
| 12 | bB | 927 | CLA | C3B-C4B-NB | 3.80 | 114.12 | 109.21 |
| 12 | bA | 818 | CLA | O2D-CGD-CBD | 3.80 | 118.02 | 111.27 |
| 13 | cA | 844 | 1L3 | C14-C15-C16 | -3.80 | 120.47 | 126.79 |
| 12 | cB | 901 | CLA | C3D-C4D-ND | 3.80 | 116.38 | 110.24 |
| 12 | bB | 939 | CLA | O2D-CGD-CBD | 3.80 | 118.01 | 111.27 |
| 12 | cB | 926 | CLA | C3D-C4D-ND | 3.80 | 116.38 | 110.24 |
| 12 | aB | 938 | CLA | C1D-CHD-C4C | -3.80 | 117.87 | 126.06 |
| 12 | aB | 927 | CLA | C3B-C4B-NB | 3.79 | 114.11 | 109.21 |
| 12 | aB | 901 | CLA | C3D-C4D-ND | 3.79 | 116.37 | 110.24 |
| 12 | cL | 204 | CLA | C3C-C4C-NC | 3.79 | 114.82 | 110.57 |
| 12 | aA | 803 | CLA | C3C-C4C-NC | 3.79 | 114.82 | 110.57 |
| 12 | bA | 808 | CLA | C4-C3-C5 | 3.79 | 120.31 | 115.98 |
| 12 | cA | 811 | CLA | C1C-C2C-C3C | -3.79 | 102.97 | 106.96 |
| 12 | bA | 808 | CLA | C3C-C4C-NC | 3.79 | 114.82 | 110.57 |
| 12 | aA | 829 | CLA | CMB-C2B-C3B | 3.79 | 131.76 | 124.68 |
| 12 | aB | 939 | CLA | O2D-CGD-CBD | 3.79 | 118.00 | 111.27 |
| 12 | aB | 909 | CLA | C3D-C4D-ND | 3.79 | 116.36 | 110.24 |
| 12 | aL | 204 | CLA | C3C-C4C-NC | 3.79 | 114.82 | 110.57 |
| 12 | cB | 938 | CLA | C1D-CHD-C4C | -3.78 | 117.89 | 126.06 |
| 12 | bA | 827 | CLA | CMB-C2B-C3B | 3.78 | 131.76 | 124.68 |
| 12 | aA | 816 | CLA | C4A-NA-C1A | -3.78 | 105.00 | 106.71 |
| 12 | cA | 808 | CLA | C4-C3-C5 | 3.78 | 120.31 | 115.98 |
| 12 | aB | 926 | CLA | C3D-C4D-ND | 3.78 | 116.36 | 110.24 |
| 12 | cB | 928 | CLA | C1C-C2C-C3C | -3.78 | 102.98 | 106.96 |
| 12 | cB | 909 | CLA | C3D-C4D-ND | 3.78 | 116.35 | 110.24 |
| 12 | aB | 908 | CLA | C3C-C4C-NC | 3.78 | 114.81 | 110.57 |
| 12 | bB | 938 | CLA | C1D-CHD-C4C | -3.78 | 117.90 | 126.06 |
| 12 | bB | 936 | CLA | C1C-C2C-C3C | -3.78 | 102.98 | 106.96 |
| 12 | bA | 803 | CLA | CAA-C2A-C3A | -3.78 | 102.43 | 112.78 |
| 12 | aF | 202 | CLA | C3C-C4C-NC | 3.78 | 114.81 | 110.57 |
| 12 | cB | 908 | CLA | CHC-C1C-C2C | -3.78 | 116.28 | 126.72 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 811 | CLA | C1C-C2C-C3C | -3.78 | 102.99 | 106.96 |
| 12 | aB | 914 | CLA | C1C-C2C-C3C | -3.77 | 102.99 | 106.96 |
| 12 | aB | 908 | CLA | CHC-C1C-C2C | -3.77 | 116.28 | 126.72 |
| 12 | aA | 803 | CLA | CAA-C2A-C3A | -3.77 | 102.44 | 112.78 |
| 12 | cA | 829 | CLA | CMB-C2B-C3B | 3.77 | 131.74 | 124.68 |
| 12 | bA | 839 | CLA | C1D-CHD-C4C | -3.77 | 117.92 | 126.06 |
| 12 | aA | 820 | CLA | C1C-C2C-C3C | -3.77 | 102.99 | 106.96 |
| 12 | aB | 919 | CLA | C1C-C2C-C3C | -3.77 | 102.99 | 106.96 |
| 12 | cA | 831 | CLA | C3D-C4D-ND | 3.77 | 116.34 | 110.24 |
| 12 | aA | 808 | CLA | C4-C3-C5 | 3.77 | 120.29 | 115.98 |
| 12 | bA | 824 | CLA | C3D-C4D-ND | 3.77 | 116.34 | 110.24 |
| 12 | cB | 914 | CLA | C1C-C2C-C3C | -3.77 | 102.99 | 106.96 |
| 12 | aB | 923 | CLA | C1C-C2C-C3C | -3.77 | 102.99 | 106.96 |
| 12 | cF | 202 | CLA | C1C-C2C-C3C | -3.77 | 102.99 | 106.96 |
| 12 | cA | 807 | CLA | O2A-CGA-CBA | 3.77 | 123.73 | 111.91 |
| 12 | bA | 811 | CLA | C1C-C2C-C3C | -3.77 | 103.00 | 106.96 |
| 12 | aA | 807 | CLA | O2A-CGA-CBA | 3.77 | 123.73 | 111.91 |
| 12 | bA | 803 | CLA | C3C-C4C-NC | 3.77 | 114.80 | 110.57 |
| 12 | cA | 804 | CLA | C3B-C4B-NB | 3.77 | 114.08 | 109.21 |
| 12 | bB | 903 | CLA | C1D-CHD-C4C | -3.77 | 117.93 | 126.06 |
| 12 | cA | 803 | CLA | CAA-C2A-C3A | -3.77 | 102.46 | 112.78 |
| 12 | cB | 903 | CLA | C1D-CHD-C4C | -3.77 | 117.93 | 126.06 |
| 12 | aA | 839 | CLA | C1D-CHD-C4C | -3.77 | 117.94 | 126.06 |
| 13 | aA | 845 | 1L3 | C14-C15-C16 | -3.77 | 120.52 | 126.79 |
| 12 | bB | 909 | CLA | C3D-C4D-ND | 3.76 | 116.33 | 110.24 |
| 12 | aA | 808 | CLA | C3C-C4C-NC | 3.76 | 114.79 | 110.57 |
| 12 | bB | 908 | CLA | CHC-C1C-C2C | -3.76 | 116.31 | 126.72 |
| 12 | cB | 932 | CLA | C3C-C4C-NC | 3.76 | 114.79 | 110.57 |
| 12 | cB | 923 | CLA | C1C-C2C-C3C | -3.76 | 103.00 | 106.96 |
| 12 | cB | 937 | CLA | C3C-C4C-NC | 3.76 | 114.79 | 110.57 |
| 12 | aB | 907 | CLA | C3D-C4D-ND | 3.76 | 116.32 | 110.24 |
| 12 | aA | 804 | CLA | C3B-C4B-NB | 3.76 | 114.07 | 109.21 |
| 12 | bB | 914 | CLA | C1C-C2C-C3C | -3.76 | 103.00 | 106.96 |
| 12 | aB | 903 | CLA | C1D-CHD-C4C | -3.76 | 117.95 | 126.06 |
| 12 | cB | 916 | CLA | CAA-C2A-C3A | -3.76 | 102.49 | 112.78 |
| 12 | bA | 830 | CLA | O2D-CGD-O1D | -3.76 | 116.49 | 123.84 |
| 12 | bB | 916 | CLA | CAA-C2A-C3A | -3.76 | 102.49 | 112.78 |
| 12 | bB | 931 | CLA | O2A-CGA-CBA | 3.76 | 123.69 | 111.91 |
| 12 | bA | 829 | CLA | CMB-C2B-C3B | 3.76 | 131.71 | 124.68 |
| 12 | cB | 931 | CLA | O2A-CGA-CBA | 3.76 | 123.69 | 111.91 |
| 12 | bB | 907 | CLA | C3D-C4D-ND | 3.75 | 116.31 | 110.24 |
| 12 | aB | 916 | CLA | CAA-C2A-C3A | -3.75 | 102.50 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 841 | CLA | C1D-CHD-C4C | -3.75 | 117.96 | 126.06 |
| 12 | bA | 807 | CLA | O2A-CGA-CBA | 3.75 | 123.68 | 111.91 |
| 12 | aB | 931 | CLA | O2A-CGA-CBA | 3.75 | 123.68 | 111.91 |
| 12 | cA | 824 | CLA | C3D-C4D-ND | 3.75 | 116.31 | 110.24 |
| 12 | bA | 841 | CLA | C1D-CHD-C4C | -3.75 | 117.97 | 126.06 |
| 12 | cB | 914 | CLA | C1D-CHD-C4C | -3.75 | 117.97 | 126.06 |
| 12 | cA | 803 | CLA | C3C-C4C-NC | 3.75 | 114.78 | 110.57 |
| 12 | aA | 831 | CLA | C3D-C4D-ND | 3.75 | 116.30 | 110.24 |
| 12 | cB | 919 | CLA | C1C-C2C-C3C | -3.75 | 103.02 | 106.96 |
| 12 | aA | 824 | CLA | C3D-C4D-ND | 3.74 | 116.29 | 110.24 |
| 12 | bF | 202 | CLA | C3C-C4C-NC | 3.74 | 114.77 | 110.57 |
| 12 | cA | 841 | CLA | CAA-C2A-C3A | -3.74 | 102.53 | 112.78 |
| 12 | aA | 830 | CLA | O2D-CGD-O1D | -3.74 | 116.52 | 123.84 |
| 13 | bA | 844 | 1L3 | C14-C15-C16 | -3.74 | 120.56 | 126.79 |
| 12 | bB | 928 | CLA | C3D-C4D-ND | 3.74 | 116.29 | 110.24 |
| 12 | bB | 937 | CLA | C3C-C4C-NC | 3.74 | 114.77 | 110.57 |
| 12 | cA | 816 | CLA | C4A-NA-C1A | -3.74 | 105.02 | 106.71 |
| 12 | aB | 938 | CLA | C1C-C2C-C3C | -3.74 | 103.02 | 106.96 |
| 12 | aA | 841 | CLA | CAA-C2A-C3A | -3.74 | 102.54 | 112.78 |
| 12 | aA | 841 | CLA | C1D-CHD-C4C | -3.74 | 117.99 | 126.06 |
| 12 | aB | 932 | CLA | C3C-C4C-NC | 3.74 | 114.77 | 110.57 |
| 12 | bB | 902 | CLA | O2D-CGD-CBD | 3.74 | 117.91 | 111.27 |
| 12 | cA | 822 | CLA | C4A-NA-C1A | -3.74 | 105.03 | 106.71 |
| 12 | aB | 928 | CLA | C3D-C4D-ND | 3.74 | 116.29 | 110.24 |
| 12 | bB | 932 | CLA | C3C-C4C-NC | 3.74 | 114.76 | 110.57 |
| 12 | aF | 202 | CLA | C1C-C2C-C3C | -3.74 | 103.03 | 106.96 |
| 12 | aA | 829 | CLA | C3B-C4B-NB | 3.74 | 114.04 | 109.21 |
| 12 | bB | 914 | CLA | C1D-CHD-C4C | -3.74 | 118.00 | 126.06 |
| 12 | bA | 829 | CLA | C3D-C4D-ND | 3.74 | 116.28 | 110.24 |
| 12 | bB | 923 | CLA | C1C-C2C-C3C | -3.74 | 103.03 | 106.96 |
| 12 | bA | 831 | CLA | C3D-C4D-ND | 3.74 | 116.28 | 110.24 |
| 12 | cB | 939 | CLA | C1D-CHD-C4C | -3.74 | 118.00 | 126.06 |
| 12 | cA | 829 | CLA | C3D-C4D-ND | 3.73 | 116.28 | 110.24 |
| 12 | aB | 902 | CLA | O2D-CGD-CBD | 3.73 | 117.90 | 111.27 |
| 12 | bA | 832 | CLA | C1C-C2C-C3C | -3.73 | 103.03 | 106.96 |
| 12 | bA | 822 | CLA | C3C-C4C-NC | 3.73 | 114.76 | 110.57 |
| 12 | aA | 829 | CLA | C3D-C4D-ND | 3.73 | 116.28 | 110.24 |
| 12 | cA | 825 | CLA | C3D-C4D-ND | 3.73 | 116.27 | 110.24 |
| 12 | cA | 830 | CLA | O2D-CGD-O1D | -3.73 | 116.54 | 123.84 |
| 12 | aB | 914 | CLA | C1D-CHD-C4C | -3.73 | 118.01 | 126.06 |
| 12 | bB | 939 | CLA | C1D-CHD-C4C | -3.73 | 118.01 | 126.06 |
| 12 | cA | 836 | CLA | CAC-C3C-C4C | 3.73 | 129.65 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 907 | CLA | C1C-C2C-C3C | -3.73 | 103.03 | 106.96 |
| 12 | aA | 805 | CLA | C4A-NA-C1A | -3.73 | 105.03 | 106.71 |
| 12 | cB | 928 | CLA | C3D-C4D-ND | 3.73 | 116.27 | 110.24 |
| 12 | aB | 935 | CLA | C3D-C4D-ND | 3.73 | 116.27 | 110.24 |
| 12 | cA | 837 | CLA | C3B-C4B-NB | 3.73 | 114.03 | 109.21 |
| 12 | aA | 825 | CLA | C3D-C4D-ND | 3.73 | 116.27 | 110.24 |
| 12 | cA | 842 | CLA | C1D-CHD-C4C | -3.73 | 118.02 | 126.06 |
| 12 | cA | 810 | CLA | CAC-C3C-C4C | 3.72 | 129.64 | 124.81 |
| 12 | cB | 935 | CLA | C3D-C4D-ND | 3.72 | 116.26 | 110.24 |
| 12 | cF | 202 | CLA | C3C-C4C-NC | 3.72 | 114.75 | 110.57 |
| 12 | cB | 902 | CLA | O2D-CGD-CBD | 3.72 | 117.89 | 111.27 |
| 12 | bB | 902 | CLA | C3C-C4C-NC | 3.72 | 114.75 | 110.57 |
| 12 | bB | 919 | CLA | C1C-C2C-C3C | -3.72 | 103.04 | 106.96 |
| 12 | aA | 837 | CLA | C3B-C4B-NB | 3.72 | 114.02 | 109.21 |
| 12 | bA | 841 | CLA | CAA-C2A-C3A | -3.72 | 102.58 | 112.78 |
| 12 | bA | 825 | CLA | C3D-C4D-ND | 3.72 | 116.26 | 110.24 |
| 12 | aB | 939 | CLA | C1D-CHD-C4C | -3.72 | 118.03 | 126.06 |
| 12 | bF | 202 | CLA | C1C-C2C-C3C | -3.72 | 103.04 | 106.96 |
| 12 | aF | 202 | CLA | CAC-C3C-C4C | 3.72 | 129.64 | 124.81 |
| 12 | bB | 939 | CLA | CBC-CAC-C3C | -3.72 | 102.17 | 112.43 |
| 12 | bA | 829 | CLA | C1C-C2C-C3C | -3.72 | 103.05 | 106.96 |
| 12 | cB | 938 | CLA | C1C-C2C-C3C | -3.72 | 103.05 | 106.96 |
| 12 | cF | 202 | CLA | CAC-C3C-C4C | 3.72 | 129.64 | 124.81 |
| 12 | cB | 905 | CLA | C4A-NA-C1A | -3.72 | 105.03 | 106.71 |
| 12 | cA | 808 | CLA | C3C-C4C-NC | 3.72 | 114.74 | 110.57 |
| 12 | bA | 822 | CLA | C4A-NA-C1A | -3.72 | 105.03 | 106.71 |
| 12 | cA | 816 | CLA | CAA-C2A-C3A | -3.72 | 102.61 | 112.78 |
| 12 | cB | 939 | CLA | CBC-CAC-C3C | -3.71 | 102.19 | 112.43 |
| 15 | bA | 850 | BCR | C2-C1-C6 | 3.71 | 116.20 | 110.48 |
| 12 | aA | 832 | CLA | C1C-C2C-C3C | -3.71 | 103.05 | 106.96 |
| 12 | bA | 810 | CLA | CAC-C3C-C4C | 3.71 | 129.63 | 124.81 |
| 12 | aA | 816 | CLA | CAA-C2A-C3A | -3.71 | 102.61 | 112.78 |
| 12 | aB | 913 | CLA | C1D-CHD-C4C | -3.71 | 118.05 | 126.06 |
| 12 | bA | 837 | CLA | C3B-C4B-NB | 3.71 | 114.01 | 109.21 |
| 12 | bA | 820 | CLA | C1C-C2C-C3C | -3.71 | 103.05 | 106.96 |
| 12 | cA | 806 | CLA | C1C-C2C-C3C | -3.71 | 103.06 | 106.96 |
| 12 | cA | 829 | CLA | C1C-C2C-C3C | -3.71 | 103.06 | 106.96 |
| 12 | aB | 939 | CLA | CBC-CAC-C3C | -3.71 | 102.20 | 112.43 |
| 12 | aA | 810 | CLA | CAC-C3C-C4C | 3.71 | 129.62 | 124.81 |
| 12 | bA | 842 | CLA | C1D-CHD-C4C | -3.71 | 118.05 | 126.06 |
| 12 | aB | 905 | CLA | C4A-NA-C1A | -3.71 | 105.04 | 106.71 |
| 12 | cA | 820 | CLA | C1C-C2C-C3C | -3.71 | 103.06 | 106.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 832 | CLA | CAA-C2A-C1A | -3.71 | 99.82 | 111.97 |
| 15 | cA | 850 | BCR | C2-C1-C6 | 3.71 | 116.19 | 110.48 |
| 12 | aA | 843 | CLA | C3C-C4C-NC | 3.71 | 114.73 | 110.57 |
| 12 | bA | 829 | CLA | C3B-C4B-NB | 3.71 | 114.00 | 109.21 |
| 12 | aB | 930 | CLA | CMB-C2B-C3B | 3.71 | 131.61 | 124.68 |
| 12 | cA | 832 | CLA | C1C-C2C-C3C | -3.71 | 103.06 | 106.96 |
| 12 | bA | 832 | CLA | CAA-C2A-C1A | -3.71 | 99.83 | 111.97 |
| 12 | aB | 902 | CLA | C3C-C4C-NC | 3.70 | 114.73 | 110.57 |
| 12 | cB | 902 | CLA | C3C-C4C-NC | 3.70 | 114.73 | 110.57 |
| 12 | cB | 917 | CLA | C3C-C4C-NC | 3.70 | 114.72 | 110.57 |
| 12 | cB | 914 | CLA | C4A-NA-C1A | -3.70 | 105.04 | 106.71 |
| 12 | aA | 822 | CLA | C3C-C4C-NC | 3.70 | 114.72 | 110.57 |
| 12 | cA | 822 | CLA | C3C-C4C-NC | 3.70 | 114.72 | 110.57 |
| 12 | bB | 917 | CLA | C3D-C4D-ND | 3.70 | 116.23 | 110.24 |
| 12 | bB | 935 | CLA | C3D-C4D-ND | 3.70 | 116.23 | 110.24 |
| 12 | bB | 938 | CLA | C1C-C2C-C3C | -3.70 | 103.06 | 106.96 |
| 15 | aA | 851 | BCR | C2-C1-C6 | 3.70 | 116.18 | 110.48 |
| 12 | bA | 816 | CLA | CAA-C2A-C3A | -3.70 | 102.64 | 112.78 |
| 12 | aA | 807 | CLA | C3C-C4C-NC | 3.70 | 114.72 | 110.57 |
| 12 | cB | 930 | CLA | CMB-C2B-C3B | 3.70 | 131.60 | 124.68 |
| 12 | cB | 907 | CLA | C1C-C2C-C3C | -3.70 | 103.07 | 106.96 |
| 12 | bF | 202 | CLA | CAC-C3C-C4C | 3.70 | 129.61 | 124.81 |
| 12 | cA | 832 | CLA | CAA-C2A-C1A | -3.70 | 99.85 | 111.97 |
| 12 | aA | 830 | CLA | C1C-C2C-C3C | -3.70 | 103.07 | 106.96 |
| 12 | cB | 913 | CLA | C1D-CHD-C4C | -3.70 | 118.08 | 126.06 |
| 12 | bB | 930 | CLA | CMB-C2B-C3B | 3.70 | 131.59 | 124.68 |
| 12 | cA | 830 | CLA | C3D-C4D-ND | 3.70 | 116.22 | 110.24 |
| 12 | cA | 807 | CLA | C3C-C4C-NC | 3.69 | 114.71 | 110.57 |
| 12 | aA | 829 | CLA | C1C-C2C-C3C | -3.69 | 103.07 | 106.96 |
| 12 | cA | 815 | CLA | C3C-C4C-NC | 3.69 | 114.71 | 110.57 |
| 12 | aB | 937 | CLA | C4A-NA-C1A | -3.69 | 105.05 | 106.71 |
| 12 | aA | 842 | CLA | C1D-CHD-C4C | -3.69 | 118.10 | 126.06 |
| 12 | bA | 830 | CLA | C3D-C4D-ND | 3.69 | 116.21 | 110.24 |
| 12 | aA | 836 | CLA | CAC-C3C-C4C | 3.69 | 129.59 | 124.81 |
| 12 | cB | 917 | CLA | C3D-C4D-ND | 3.69 | 116.20 | 110.24 |
| 12 | bB | 913 | CLA | C1D-CHD-C4C | -3.69 | 118.11 | 126.06 |
| 12 | bB | 934 | CLA | C1D-CHD-C4C | -3.69 | 118.11 | 126.06 |
| 12 | cB | 932 | CLA | C1D-CHD-C4C | -3.69 | 118.11 | 126.06 |
| 12 | bA | 836 | CLA | CAC-C3C-C4C | 3.69 | 129.59 | 124.81 |
| 12 | aA | 830 | CLA | C3D-C4D-ND | 3.68 | 116.20 | 110.24 |
| 12 | aA | 804 | CLA | C1D-CHD-C4C | -3.68 | 118.11 | 126.06 |
| 12 | aB | 932 | CLA | C1D-CHD-C4C | -3.68 | 118.11 | 126.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 934 | CLA | C1D-CHD-C4C | -3.68 | 118.12 | 126.06 |
| 12 | bA | 807 | CLA | C3C-C4C-NC | 3.68 | 114.70 | 110.57 |
| 12 | bA | 830 | CLA | CAC-C3C-C4C | 3.68 | 129.59 | 124.81 |
| 12 | aA | 815 | CLA | C3C-C4C-NC | 3.68 | 114.70 | 110.57 |
| 12 | bA | 815 | CLA | C3C-C4C-NC | 3.68 | 114.70 | 110.57 |
| 12 | bA | 816 | CLA | C4A-NA-C1A | -3.68 | 105.05 | 106.71 |
| 12 | bB | 907 | CLA | C1C-C2C-C3C | -3.68 | 103.09 | 106.96 |
| 12 | aB | 934 | CLA | C1D-CHD-C4C | -3.68 | 118.12 | 126.06 |
| 12 | aB | 917 | CLA | C3C-C4C-NC | 3.68 | 114.69 | 110.57 |
| 12 | cA | 829 | CLA | C3B-C4B-NB | 3.67 | 113.96 | 109.21 |
| 12 | aB | 912 | CLA | C4C-C3C-C2C | -3.67 | 101.54 | 106.90 |
| 12 | cA | 830 | CLA | C1C-C2C-C3C | -3.67 | 103.09 | 106.96 |
| 12 | bB | 903 | CLA | C1C-C2C-C3C | -3.67 | 103.10 | 106.96 |
| 12 | bA | 825 | CLA | C1D-CHD-C4C | -3.67 | 118.14 | 126.06 |
| 12 | bB | 932 | CLA | C1D-CHD-C4C | -3.67 | 118.15 | 126.06 |
| 12 | aA | 825 | CLA | C1D-CHD-C4C | -3.67 | 118.15 | 126.06 |
| 12 | aA | 815 | CLA | C3B-C4B-NB | 3.67 | 113.95 | 109.21 |
| 12 | bA | 830 | CLA | C1C-C2C-C3C | -3.67 | 103.10 | 106.96 |
| 12 | bL | 204 | CLA | C1C-C2C-C3C | -3.67 | 103.10 | 106.96 |
| 12 | bB | 917 | CLA | C3C-C4C-NC | 3.66 | 114.68 | 110.57 |
| 12 | cA | 843 | CLA | C3C-C4C-NC | 3.66 | 114.68 | 110.57 |
| 12 | bA | 804 | CLA | C1D-CHD-C4C | -3.66 | 118.15 | 126.06 |
| 12 | cA | 825 | CLA | C1D-CHD-C4C | -3.66 | 118.16 | 126.06 |
| 12 | aB | 917 | CLA | C3D-C4D-ND | 3.66 | 116.16 | 110.24 |
| 12 | cA | 804 | CLA | C1D-CHD-C4C | -3.66 | 118.17 | 126.06 |
| 12 | bA | 843 | CLA | C3C-C4C-NC | 3.66 | 114.67 | 110.57 |
| 12 | aA | 806 | CLA | CMB-C2B-C3B | 3.66 | 131.52 | 124.68 |
| 12 | cA | 853 | CLA | C1D-CHD-C4C | -3.66 | 118.17 | 126.06 |
| 12 | bB | 912 | CLA | C4C-C3C-C2C | -3.66 | 101.57 | 106.90 |
| 12 | aA | 814 | CLA | CAC-C3C-C4C | 3.66 | 129.55 | 124.81 |
| 11 | bA | 801 | CL0 | C1D-CHD-C4C | -3.65 | 118.17 | 126.06 |
| 12 | bA | 806 | CLA | C1C-C2C-C3C | -3.65 | 103.11 | 106.96 |
| 12 | cB | 912 | CLA | C4C-C3C-C2C | -3.65 | 101.57 | 106.90 |
| 12 | aB | 903 | CLA | C1C-C2C-C3C | -3.65 | 103.12 | 106.96 |
| 12 | cA | 806 | CLA | CMB-C2B-C3B | 3.65 | 131.51 | 124.68 |
| 12 | bA | 815 | CLA | C3B-C4B-NB | 3.65 | 113.93 | 109.21 |
| 12 | aA | 815 | CLA | C1C-C2C-C3C | -3.65 | 103.12 | 106.96 |
| 12 | aA | 810 | CLA | O2D-CGD-CBD | 3.65 | 117.75 | 111.27 |
| 12 | cA | 830 | CLA | CAC-C3C-C4C | 3.65 | 129.54 | 124.81 |
| 12 | cB | 937 | CLA | C1C-C2C-C3C | -3.65 | 103.12 | 106.96 |
| 12 | aB | 934 | CLA | C1C-C2C-C3C | -3.65 | 103.12 | 106.96 |
| 12 | cL | 204 | CLA | C1C-C2C-C3C | -3.65 | 103.12 | 106.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 830 | CLA | CAC-C3C-C4C | 3.65 | 129.54 | 124.81 |
| 12 | bA | 853 | CLA | C4C-C3C-C2C | -3.65 | 101.58 | 106.90 |
| 12 | cB | 916 | CLA | C1D-CHD-C4C | -3.64 | 118.20 | 126.06 |
| 12 | aB | 934 | CLA | C3C-C4C-NC | 3.64 | 114.66 | 110.57 |
| 12 | aA | 806 | CLA | C1C-C2C-C3C | -3.64 | 103.13 | 106.96 |
| 12 | cB | 903 | CLA | C1C-C2C-C3C | -3.64 | 103.13 | 106.96 |
| 12 | bA | 824 | CLA | C3C-C4C-NC | 3.64 | 114.66 | 110.57 |
| 15 | bJ | 101 | BCR | C11-C10-C9 | -3.64 | 122.11 | 127.31 |
| 12 | cA | 823 | CLA | C4-C3-C5 | 3.64 | 120.15 | 115.98 |
| 12 | bA | 824 | CLA | C4A-NA-C1A | -3.64 | 105.07 | 106.71 |
| 12 | bB | 926 | CLA | C4C-C3C-C2C | -3.64 | 101.59 | 106.90 |
| 12 | cB | 937 | CLA | CAC-C3C-C4C | 3.64 | 129.53 | 124.81 |
| 12 | bA | 806 | CLA | CMB-C2B-C3B | 3.64 | 131.49 | 124.68 |
| 12 | cA | 802 | CLA | C1C-C2C-C3C | -3.64 | 103.13 | 106.96 |
| 12 | aA | 854 | CLA | C1D-CHD-C4C | -3.64 | 118.21 | 126.06 |
| 12 | aB | 932 | CLA | CAA-C2A-C3A | -3.64 | 102.81 | 112.78 |
| 11 | aA | 801 | CL0 | C1D-CHD-C4C | -3.64 | 118.21 | 126.06 |
| 12 | bB | 916 | CLA | C1D-CHD-C4C | -3.64 | 118.21 | 126.06 |
| 12 | aB | 937 | CLA | CAC-C3C-C4C | 3.64 | 129.53 | 124.81 |
| 12 | cA | 811 | CLA | C1D-CHD-C4C | -3.64 | 118.21 | 126.06 |
| 12 | cF | 202 | CLA | C1D-CHD-C4C | -3.64 | 118.21 | 126.06 |
| 12 | aB | 905 | CLA | C3D-C4D-ND | 3.64 | 116.12 | 110.24 |
| 12 | bA | 811 | CLA | C1D-CHD-C4C | -3.64 | 118.21 | 126.06 |
| 12 | cA | 810 | CLA | O2D-CGD-CBD | 3.64 | 117.73 | 111.27 |
| 12 | bA | 823 | CLA | C4-C3-C5 | 3.63 | 120.14 | 115.98 |
| 12 | bB | 934 | CLA | C1C-C2C-C3C | -3.63 | 103.14 | 106.96 |
| 11 | cA | 801 | CL0 | C1D-CHD-C4C | -3.63 | 118.22 | 126.06 |
| 12 | bF | 202 | CLA | C1D-CHD-C4C | -3.63 | 118.22 | 126.06 |
| 12 | bA | 853 | CLA | C1D-CHD-C4C | -3.63 | 118.22 | 126.06 |
| 12 | cA | 815 | CLA | C3B-C4B-NB | 3.63 | 113.91 | 109.21 |
| 12 | bB | 934 | CLA | C3C-C4C-NC | 3.63 | 114.64 | 110.57 |
| 12 | aF | 202 | CLA | C1D-CHD-C4C | -3.63 | 118.22 | 126.06 |
| 12 | bB | 905 | CLA | C4A-NA-C1A | -3.63 | 105.07 | 106.71 |
| 12 | aB | 916 | CLA | C1D-CHD-C4C | -3.63 | 118.23 | 126.06 |
| 12 | aA | 802 | CLA | C1C-C2C-C3C | -3.63 | 103.14 | 106.96 |
| 12 | bB | 932 | CLA | CAA-C2A-C3A | -3.63 | 102.84 | 112.78 |
| 12 | bB | 937 | CLA | C1C-C2C-C3C | -3.63 | 103.14 | 106.96 |
| 12 | bA | 814 | CLA | CAC-C3C-C4C | 3.63 | 129.52 | 124.81 |
| 12 | aA | 822 | CLA | CMB-C2B-C3B | 3.63 | 131.46 | 124.68 |
| 12 | aA | 840 | CLA | C1C-C2C-C3C | -3.63 | 103.14 | 106.96 |
| 12 | bA | 817 | CLA | C1C-C2C-C3C | -3.63 | 103.14 | 106.96 |
| 12 | cB | 934 | CLA | C1C-C2C-C3C | -3.63 | 103.14 | 106.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 928 | CLA | C3B-C4B-NB | 3.62 | 113.90 | 109.21 |
| 12 | cA | 840 | CLA | C1C-C2C-C3C | -3.62 | 103.15 | 106.96 |
| 12 | cA | 827 | CLA | C3D-C4D-ND | 3.62 | 116.10 | 110.24 |
| 12 | aB | 928 | CLA | C3B-C4B-NB | 3.62 | 113.89 | 109.21 |
| 15 | aJ | 101 | BCR | C11-C10-C9 | -3.62 | 122.14 | 127.31 |
| 12 | aA | 811 | CLA | C1D-CHD-C4C | -3.62 | 118.25 | 126.06 |
| 12 | cB | 932 | CLA | CAA-C2A-C3A | -3.62 | 102.86 | 112.78 |
| 12 | bA | 840 | CLA | C1C-C2C-C3C | -3.62 | 103.15 | 106.96 |
| 12 | bA | 822 | CLA | CMB-C2B-C3B | 3.62 | 131.45 | 124.68 |
| 12 | bB | 922 | CLA | C1D-CHD-C4C | -3.62 | 118.25 | 126.06 |
| 12 | cA | 814 | CLA | CAC-C3C-C4C | 3.62 | 129.50 | 124.81 |
| 12 | aA | 812 | CLA | C1D-CHD-C4C | -3.62 | 118.25 | 126.06 |
| 12 | bA | 803 | CLA | CMD-C2D-C1D | 3.62 | 131.09 | 124.71 |
| 12 | bA | 812 | CLA | C1D-CHD-C4C | -3.62 | 118.26 | 126.06 |
| 12 | bA | 843 | CLA | C1D-CHD-C4C | -3.62 | 118.26 | 126.06 |
| 12 | aA | 843 | CLA | O2A-CGA-CBA | 3.62 | 123.25 | 111.91 |
| 12 | cA | 822 | CLA | CMB-C2B-C3B | 3.61 | 131.44 | 124.68 |
| 12 | bB | 937 | CLA | CAC-C3C-C4C | 3.61 | 129.50 | 124.81 |
| 12 | aA | 854 | CLA | C4C-C3C-C2C | -3.61 | 101.63 | 106.90 |
| 12 | bA | 843 | CLA | O2A-CGA-CBA | 3.61 | 123.25 | 111.91 |
| 12 | cA | 843 | CLA | C1D-CHD-C4C | -3.61 | 118.27 | 126.06 |
| 12 | aB | 930 | CLA | C3B-C4B-NB | 3.61 | 113.88 | 109.21 |
| 15 | cJ | 101 | BCR | C11-C10-C9 | -3.61 | 122.16 | 127.31 |
| 12 | bA | 815 | CLA | C1C-C2C-C3C | -3.61 | 103.16 | 106.96 |
| 12 | aB | 926 | CLA | C4C-C3C-C2C | -3.61 | 101.64 | 106.90 |
| 12 | aB | 910 | CLA | C3B-C4B-NB | 3.61 | 113.88 | 109.21 |
| 12 | cB | 925 | CLA | O2D-CGD-O1D | -3.61 | 116.78 | 123.84 |
| 12 | cA | 803 | CLA | CMD-C2D-C1D | 3.61 | 131.08 | 124.71 |
| 12 | cA | 843 | CLA | O2A-CGA-CBA | 3.61 | 123.24 | 111.91 |
| 12 | bA | 810 | CLA | O2D-CGD-CBD | 3.61 | 117.68 | 111.27 |
| 12 | bB | 910 | CLA | C3B-C4B-NB | 3.61 | 113.88 | 109.21 |
| 12 | bB | 925 | CLA | O2D-CGD-O1D | -3.61 | 116.78 | 123.84 |
| 12 | cA | 812 | CLA | C1D-CHD-C4C | -3.61 | 118.27 | 126.06 |
| 12 | aL | 202 | CLA | C3C-C4C-NC | 3.61 | 114.62 | 110.57 |
| 12 | aA | 823 | CLA | C4-C3-C5 | 3.61 | 120.11 | 115.98 |
| 12 | aA | 824 | CLA | C3C-C4C-NC | 3.61 | 114.62 | 110.57 |
| 12 | aA | 827 | CLA | C3D-C4D-ND | 3.61 | 116.07 | 110.24 |
| 12 | cB | 921 | CLA | C3B-C4B-NB | 3.61 | 113.87 | 109.21 |
| 12 | cA | 824 | CLA | C3C-C4C-NC | 3.61 | 114.62 | 110.57 |
| 12 | aB | 903 | CLA | C3D-C4D-ND | 3.61 | 116.07 | 110.24 |
| 12 | bA | 835 | CLA | CMB-C2B-C3B | 3.60 | 131.42 | 124.68 |
| 12 | cB | 922 | CLA | C1D-CHD-C4C | -3.60 | 118.28 | 126.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 937 | CLA | C1C-C2C-C3C | -3.60 | 103.17 | 106.96 |
| 12 | cB | 917 | CLA | O2A-CGA-CBA | 3.60 | 123.22 | 111.91 |
| 12 | aA | 803 | CLA | CMD-C2D-C1D | 3.60 | 131.06 | 124.71 |
| 12 | bB | 905 | CLA | C3D-C4D-ND | 3.60 | 116.07 | 110.24 |
| 12 | aL | 204 | CLA | C1C-C2C-C3C | -3.60 | 103.17 | 106.96 |
| 12 | aB | 925 | CLA | O2D-CGD-O1D | -3.60 | 116.79 | 123.84 |
| 12 | cA | 817 | CLA | C1C-C2C-C3C | -3.60 | 103.17 | 106.96 |
| 12 | cA | 820 | CLA | C1D-CHD-C4C | -3.60 | 118.29 | 126.06 |
| 12 | aB | 938 | CLA | O2D-CGD-CBD | 3.60 | 117.67 | 111.27 |
| 12 | cA | 824 | CLA | C4A-NA-C1A | -3.60 | 105.09 | 106.71 |
| 12 | cB | 926 | CLA | C4C-C3C-C2C | -3.60 | 101.65 | 106.90 |
| 12 | aA | 820 | CLA | C1D-CHD-C4C | -3.60 | 118.29 | 126.06 |
| 12 | bL | 203 | CLA | C1C-C2C-C3C | -3.60 | 103.17 | 106.96 |
| 12 | bB | 905 | CLA | C1D-CHD-C4C | -3.60 | 118.29 | 126.06 |
| 12 | aB | 916 | CLA | O2A-CGA-CBA | 3.60 | 123.21 | 111.91 |
| 12 | bA | 820 | CLA | C1D-CHD-C4C | -3.60 | 118.29 | 126.06 |
| 12 | aA | 814 | CLA | C1D-CHD-C4C | -3.60 | 118.30 | 126.06 |
| 12 | cA | 814 | CLA | C1D-CHD-C4C | -3.60 | 118.30 | 126.06 |
| 12 | bB | 928 | CLA | C3B-C4B-NB | 3.60 | 113.86 | 109.21 |
| 12 | aB | 921 | CLA | C3B-C4B-NB | 3.60 | 113.86 | 109.21 |
| 12 | bB | 921 | CLA | C3B-C4B-NB | 3.60 | 113.86 | 109.21 |
| 12 | bB | 925 | CLA | C4-C3-C5 | 3.60 | 121.32 | 115.27 |
| 12 | aA | 824 | CLA | C4A-NA-C1A | -3.60 | 105.09 | 106.71 |
| 12 | aA | 843 | CLA | C1D-CHD-C4C | -3.60 | 118.30 | 126.06 |
| 12 | bA | 827 | CLA | C3D-C4D-ND | 3.60 | 116.06 | 110.24 |
| 12 | cA | 818 | CLA | CMB-C2B-C3B | 3.60 | 131.41 | 124.68 |
| 12 | bB | 938 | CLA | O2D-CGD-CBD | 3.60 | 117.66 | 111.27 |
| 12 | aA | 817 | CLA | C1C-C2C-C3C | -3.59 | 103.18 | 106.96 |
| 12 | bA | 802 | CLA | C1C-C2C-C3C | -3.59 | 103.18 | 106.96 |
| 12 | aB | 925 | CLA | C4-C3-C5 | 3.59 | 121.32 | 115.27 |
| 12 | bB | 916 | CLA | O2A-CGA-CBA | 3.59 | 123.19 | 111.91 |
| 12 | cB | 934 | CLA | C3C-C4C-NC | 3.59 | 114.60 | 110.57 |
| 12 | aA | 817 | CLA | C1D-CHD-C4C | -3.59 | 118.31 | 126.06 |
| 12 | aA | 828 | CLA | C1C-C2C-C3C | -3.59 | 103.18 | 106.96 |
| 12 | aB | 922 | CLA | C1D-CHD-C4C | -3.59 | 118.31 | 126.06 |
| 12 | bA | 829 | CLA | O2D-CGD-CBD | 3.59 | 117.65 | 111.27 |
| 12 | bA | 808 | CLA | C1D-CHD-C4C | -3.59 | 118.31 | 126.06 |
| 12 | bA | 814 | CLA | C1D-CHD-C4C | -3.59 | 118.31 | 126.06 |
| 12 | bA | 807 | CLA | C3D-C4D-ND | 3.59 | 116.05 | 110.24 |
| 12 | aA | 818 | CLA | CMB-C2B-C3B | 3.59 | 131.40 | 124.68 |
| 12 | aA | 808 | CLA | C1D-CHD-C4C | -3.59 | 118.31 | 126.06 |
| 12 | bA | 811 | CLA | C3B-C4B-NB | 3.59 | 113.85 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 808 | CLA | C1D-CHD-C4C | -3.59 | 118.31 | 126.06 |
| 12 | cA | 853 | CLA | C4C-C3C-C2C | -3.59 | 101.67 | 106.90 |
| 12 | cB | 938 | CLA | O2D-CGD-CBD | 3.59 | 117.65 | 111.27 |
| 12 | cA | 827 | CLA | C4C-C3C-C2C | -3.59 | 101.67 | 106.90 |
| 12 | cA | 802 | CLA | C3B-C4B-NB | 3.59 | 113.85 | 109.21 |
| 12 | bB | 917 | CLA | O2A-CGA-CBA | 3.59 | 123.17 | 111.91 |
| 12 | cA | 817 | CLA | C1D-CHD-C4C | -3.59 | 118.32 | 126.06 |
| 12 | cA | 829 | CLA | O2D-CGD-CBD | 3.59 | 117.64 | 111.27 |
| 12 | bA | 828 | CLA | C1C-C2C-C3C | -3.59 | 103.19 | 106.96 |
| 12 | cB | 905 | CLA | C3D-C4D-ND | 3.58 | 116.04 | 110.24 |
| 12 | cL | 202 | CLA | C3C-C4C-NC | 3.58 | 114.59 | 110.57 |
| 12 | aA | 807 | CLA | C3D-C4D-ND | 3.58 | 116.04 | 110.24 |
| 12 | aA | 840 | CLA | O2D-CGD-CBD | 3.58 | 117.64 | 111.27 |
| 12 | cB | 905 | CLA | C1D-CHD-C4C | -3.58 | 118.33 | 126.06 |
| 12 | aA | 827 | CLA | C4C-C3C-C2C | -3.58 | 101.68 | 106.90 |
| 12 | bB | 903 | CLA | C3D-C4D-ND | 3.58 | 116.03 | 110.24 |
| 12 | aB | 917 | CLA | CBA-CAA-C2A | 3.58 | 124.44 | 113.86 |
| 12 | aA | 837 | CLA | C3D-C4D-ND | 3.58 | 116.03 | 110.24 |
| 12 | aA | 831 | CLA | C1C-C2C-C3C | -3.58 | 103.19 | 106.96 |
| 12 | bB | 937 | CLA | O2D-CGD-O1D | -3.58 | 116.84 | 123.84 |
| 12 | bB | 917 | CLA | CBA-CAA-C2A | 3.58 | 124.43 | 113.86 |
| 12 | cB | 916 | CLA | O2A-CGA-CBA | 3.58 | 123.14 | 111.91 |
| 12 | cB | 910 | CLA | C3B-C4B-NB | 3.58 | 113.84 | 109.21 |
| 12 | aB | 914 | CLA | C4A-NA-C1A | -3.58 | 105.10 | 106.71 |
| 12 | aB | 937 | CLA | O2D-CGD-O1D | -3.58 | 116.84 | 123.84 |
| 12 | aB | 917 | CLA | O2A-CGA-CBA | 3.58 | 123.14 | 111.91 |
| 12 | aA | 837 | CLA | C4C-C3C-C2C | -3.58 | 101.69 | 106.90 |
| 12 | aB | 914 | CLA | CAA-C2A-C3A | -3.58 | 102.98 | 112.78 |
| 12 | bA | 839 | CLA | O2D-CGD-O1D | -3.58 | 116.85 | 123.84 |
| 12 | bA | 809 | CLA | C1C-C2C-C3C | -3.58 | 103.20 | 106.96 |
| 12 | cB | 925 | CLA | C4-C3-C5 | 3.58 | 121.29 | 115.27 |
| 12 | cB | 917 | CLA | CBA-CAA-C2A | 3.58 | 124.42 | 113.86 |
| 12 | bA | 840 | CLA | O2D-CGD-CBD | 3.57 | 117.62 | 111.27 |
| 12 | cA | 809 | CLA | C1C-C2C-C3C | -3.57 | 103.20 | 106.96 |
| 12 | aB | 949 | CLA | C4C-C3C-C2C | -3.57 | 101.69 | 106.90 |
| 12 | aA | 835 | CLA | CMB-C2B-C3B | 3.57 | 131.36 | 124.68 |
| 12 | bA | 818 | CLA | CMB-C2B-C3B | 3.57 | 131.36 | 124.68 |
| 12 | aA | 829 | CLA | O2D-CGD-CBD | 3.57 | 117.62 | 111.27 |
| 12 | cB | 930 | CLA | C3B-C4B-NB | 3.57 | 113.83 | 109.21 |
| 12 | bL | 202 | CLA | C3C-C4C-NC | 3.57 | 114.58 | 110.57 |
| 12 | cL | 203 | CLA | C1C-C2C-C3C | -3.57 | 103.20 | 106.96 |
| 12 | cB | 903 | CLA | C3D-C4D-ND | 3.57 | 116.01 | 110.24 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 905 | CLA | C1C-C2C-C3C | -3.57 | 103.20 | 106.96 |
| 12 | bA | 802 | CLA | C3B-C4B-NB | 3.57 | 113.83 | 109.21 |
| 12 | cB | 937 | CLA | O2D-CGD-O1D | -3.57 | 116.86 | 123.84 |
| 12 | cB | 922 | CLA | O2D-CGD-CBD | 3.57 | 117.61 | 111.27 |
| 12 | aL | 203 | CLA | C1C-C2C-C3C | -3.57 | 103.20 | 106.96 |
| 12 | aB | 922 | CLA | O2D-CGD-CBD | 3.57 | 117.61 | 111.27 |
| 12 | cA | 828 | CLA | C1C-C2C-C3C | -3.57 | 103.20 | 106.96 |
| 12 | aA | 829 | CLA | C1D-CHD-C4C | -3.57 | 118.36 | 126.06 |
| 12 | bB | 922 | CLA | O2D-CGD-CBD | 3.57 | 117.61 | 111.27 |
| 12 | cA | 815 | CLA | C1C-C2C-C3C | -3.57 | 103.21 | 106.96 |
| 12 | cA | 835 | CLA | CMB-C2B-C3B | 3.57 | 131.35 | 124.68 |
| 12 | aB | 905 | CLA | C1D-CHD-C4C | -3.57 | 118.36 | 126.06 |
| 12 | cA | 836 | CLA | C3B-C4B-NB | 3.57 | 113.82 | 109.21 |
| 12 | cB | 914 | CLA | CAA-C2A-C3A | -3.56 | 103.02 | 112.78 |
| 12 | cB | 905 | CLA | C1C-C2C-C3C | -3.56 | 103.21 | 106.96 |
| 12 | bA | 827 | CLA | C4C-C3C-C2C | -3.56 | 101.70 | 106.90 |
| 12 | bA | 817 | CLA | C1D-CHD-C4C | -3.56 | 118.37 | 126.06 |
| 12 | aA | 836 | CLA | C3B-C4B-NB | 3.56 | 113.82 | 109.21 |
| 12 | bB | 925 | CLA | C3D-C4D-ND | 3.56 | 116.00 | 110.24 |
| 12 | bB | 914 | CLA | CAA-C2A-C3A | -3.56 | 103.02 | 112.78 |
| 12 | bF | 202 | CLA | CAA-C2A-C3A | -3.56 | 103.03 | 112.78 |
| 12 | cF | 202 | CLA | CAA-C2A-C3A | -3.56 | 103.03 | 112.78 |
| 12 | aA | 815 | CLA | C1D-CHD-C4C | -3.56 | 118.38 | 126.06 |
| 12 | aA | 838 | CLA | C1D-CHD-C4C | -3.56 | 118.38 | 126.06 |
| 12 | aA | 823 | CLA | C1D-CHD-C4C | -3.56 | 118.38 | 126.06 |
| 12 | bA | 829 | CLA | C1D-CHD-C4C | -3.56 | 118.38 | 126.06 |
| 12 | bB | 928 | CLA | C3D-C2D-C1D | -3.56 | 100.97 | 105.83 |
| 12 | bA | 838 | CLA | C1D-CHD-C4C | -3.56 | 118.38 | 126.06 |
| 12 | aB | 928 | CLA | C3D-C2D-C1D | -3.56 | 100.98 | 105.83 |
| 12 | aA | 839 | CLA | O2D-CGD-O1D | -3.56 | 116.89 | 123.84 |
| 12 | cA | 834 | CLA | C1D-CHD-C4C | -3.56 | 118.39 | 126.06 |
| 12 | cA | 807 | CLA | C3D-C4D-ND | 3.56 | 115.99 | 110.24 |
| 12 | cB | 928 | CLA | C3D-C2D-C1D | -3.55 | 100.98 | 105.83 |
| 12 | aA | 809 | CLA | C1C-C2C-C3C | -3.55 | 103.22 | 106.96 |
| 12 | cA | 829 | CLA | C1D-CHD-C4C | -3.55 | 118.39 | 126.06 |
| 12 | bA | 837 | CLA | C4C-C3C-C2C | -3.55 | 101.72 | 106.90 |
| 12 | cA | 823 | CLA | C1D-CHD-C4C | -3.55 | 118.40 | 126.06 |
| 12 | cA | 840 | CLA | O2D-CGD-CBD | 3.55 | 117.58 | 111.27 |
| 12 | cA | 815 | CLA | C1D-CHD-C4C | -3.55 | 118.40 | 126.06 |
| 12 | bA | 834 | CLA | C1D-CHD-C4C | -3.55 | 118.40 | 126.06 |
| 12 | cB | 919 | CLA | C3D-C4D-ND | 3.55 | 115.98 | 110.24 |
| 12 | bA | 831 | CLA | C1C-C2C-C3C | -3.55 | 103.23 | 106.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 802 | CLA | C3B-C4B-NB | 3.55 | 113.79 | 109.21 |
| 12 | cA | 837 | CLA | C4C-C3C-C2C | -3.55 | 101.73 | 106.90 |
| 12 | cA | 837 | CLA | C3D-C4D-ND | 3.55 | 115.97 | 110.24 |
| 12 | aA | 825 | CLA | C1C-C2C-C3C | -3.54 | 103.23 | 106.96 |
| 12 | aF | 202 | CLA | CAA-C2A-C3A | -3.54 | 103.07 | 112.78 |
| 12 | cA | 841 | CLA | C1C-C2C-C3C | -3.54 | 103.23 | 106.96 |
| 12 | bA | 841 | CLA | C1C-C2C-C3C | -3.54 | 103.23 | 106.96 |
| 12 | aB | 919 | CLA | C3D-C4D-ND | 3.54 | 115.96 | 110.24 |
| 12 | bA | 810 | CLA | C1C-C2C-C3C | -3.54 | 103.23 | 106.96 |
| 12 | cA | 839 | CLA | O2D-CGD-O1D | -3.54 | 116.92 | 123.84 |
| 12 | aB | 905 | CLA | C1C-C2C-C3C | -3.54 | 103.24 | 106.96 |
| 11 | aA | 801 | CL0 | C3B-C4B-NB | 3.54 | 113.78 | 109.21 |
| 12 | cB | 911 | CLA | C4A-NA-C1A | -3.54 | 105.12 | 106.71 |
| 12 | bA | 815 | CLA | C1D-CHD-C4C | -3.53 | 118.43 | 126.06 |
| 12 | cA | 838 | CLA | C1D-CHD-C4C | -3.53 | 118.44 | 126.06 |
| 12 | cA | 840 | CLA | C3C-C4C-NC | 3.53 | 114.53 | 110.57 |
| 12 | bB | 949 | CLA | C4C-C3C-C2C | -3.53 | 101.75 | 106.90 |
| 12 | cB | 925 | CLA | C3D-C4D-ND | 3.53 | 115.95 | 110.24 |
| 12 | bB | 918 | CLA | CAC-C3C-C4C | 3.53 | 129.39 | 124.81 |
| 12 | bA | 823 | CLA | C1D-CHD-C4C | -3.53 | 118.44 | 126.06 |
| 12 | bB | 914 | CLA | C4A-NA-C1A | -3.53 | 105.12 | 106.71 |
| 12 | cA | 811 | CLA | C3B-C4B-NB | 3.53 | 113.77 | 109.21 |
| 12 | cB | 906 | CLA | C1D-CHD-C4C | -3.53 | 118.45 | 126.06 |
| 12 | aA | 834 | CLA | C1D-CHD-C4C | -3.53 | 118.45 | 126.06 |
| 12 | bB | 930 | CLA | C3B-C4B-NB | 3.53 | 113.77 | 109.21 |
| 12 | bA | 837 | CLA | C3D-C4D-ND | 3.53 | 115.94 | 110.24 |
| 12 | aB | 907 | CLA | CAA-C2A-C3A | -3.53 | 103.12 | 112.78 |
| 12 | cA | 810 | CLA | C1C-C2C-C3C | -3.53 | 103.25 | 106.96 |
| 12 | cA | 831 | CLA | C1C-C2C-C3C | -3.53 | 103.25 | 106.96 |
| 12 | bB | 906 | CLA | C1D-CHD-C4C | -3.53 | 118.45 | 126.06 |
| 12 | bA | 836 | CLA | C3B-C4B-NB | 3.52 | 113.77 | 109.21 |
| 12 | cA | 821 | CLA | C1C-C2C-C3C | -3.52 | 103.25 | 106.96 |
| 12 | bB | 919 | CLA | C3D-C4D-ND | 3.52 | 115.94 | 110.24 |
| 12 | cB | 949 | CLA | C4C-C3C-C2C | -3.52 | 101.76 | 106.90 |
| 12 | aB | 901 | CLA | C4C-C3C-C2C | -3.52 | 101.76 | 106.90 |
| 12 | cB | 923 | CLA | C1D-CHD-C4C | -3.52 | 118.46 | 126.06 |
| 12 | bA | 821 | CLA | C1C-C2C-C3C | -3.52 | 103.25 | 106.96 |
| 12 | aA | 811 | CLA | C3B-C4B-NB | 3.52 | 113.76 | 109.21 |
| 12 | aA | 831 | CLA | C1D-CHD-C4C | -3.52 | 118.47 | 126.06 |
| 12 | aB | 907 | CLA | C3B-C4B-NB | 3.52 | 113.76 | 109.21 |
| 12 | aB | 925 | CLA | C3D-C4D-ND | 3.52 | 115.93 | 110.24 |
| 12 | aA | 821 | CLA | C1C-C2C-C3C | -3.52 | 103.26 | 106.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 918 | CLA | CAC-C3C-C4C | 3.52 | 129.37 | 124.81 |
| 12 | cB | 926 | CLA | C1D-CHD-C4C | -3.51 | 118.48 | 126.06 |
| 12 | aA | 810 | CLA | C1C-C2C-C3C | -3.51 | 103.26 | 106.96 |
| 12 | cA | 840 | CLA | C4A-NA-C1A | -3.51 | 105.13 | 106.71 |
| 12 | cA | 821 | CLA | C1D-CHD-C4C | -3.51 | 118.48 | 126.06 |
| 12 | aA | 828 | CLA | C1D-CHD-C4C | -3.51 | 118.48 | 126.06 |
| 12 | cB | 907 | CLA | CAA-C2A-C3A | -3.51 | 103.17 | 112.78 |
| 12 | cB | 924 | CLA | CMB-C2B-C3B | 3.51 | 131.24 | 124.68 |
| 12 | bB | 907 | CLA | CAA-C2A-C3A | -3.51 | 103.17 | 112.78 |
| 12 | aB | 904 | CLA | C1D-CHD-C4C | -3.51 | 118.49 | 126.06 |
| 12 | aA | 821 | CLA | C1D-CHD-C4C | -3.51 | 118.49 | 126.06 |
| 12 | bA | 821 | CLA | C1D-CHD-C4C | -3.51 | 118.49 | 126.06 |
| 12 | cA | 831 | CLA | C1D-CHD-C4C | -3.51 | 118.49 | 126.06 |
| 12 | cA | 816 | CLA | C3B-C4B-NB | 3.51 | 113.74 | 109.21 |
| 12 | bA | 831 | CLA | C1D-CHD-C4C | -3.51 | 118.50 | 126.06 |
| 12 | aB | 932 | CLA | C4A-NA-C1A | -3.50 | 105.13 | 106.71 |
| 12 | cA | 824 | CLA | C3B-C4B-NB | 3.50 | 113.74 | 109.21 |
| 12 | bA | 828 | CLA | C1D-CHD-C4C | -3.50 | 118.50 | 126.06 |
| 12 | aA | 814 | CLA | C4C-C3C-C2C | -3.50 | 101.80 | 106.90 |
| 12 | cB | 928 | CLA | C1D-CHD-C4C | -3.50 | 118.51 | 126.06 |
| 11 | bA | 801 | CL0 | C3B-C4B-NB | 3.50 | 113.73 | 109.21 |
| 12 | bB | 926 | CLA | C1D-CHD-C4C | -3.50 | 118.51 | 126.06 |
| 12 | cB | 901 | CLA | C4C-C3C-C2C | -3.50 | 101.80 | 106.90 |
| 12 | aB | 923 | CLA | C1D-CHD-C4C | -3.50 | 118.52 | 126.06 |
| 12 | bA | 825 | CLA | C1C-C2C-C3C | -3.49 | 103.28 | 106.96 |
| 12 | cA | 825 | CLA | C1C-C2C-C3C | -3.49 | 103.28 | 106.96 |
| 11 | cA | 801 | CL0 | C3B-C4B-NB | 3.49 | 113.73 | 109.21 |
| 12 | cA | 828 | CLA | CMB-C2B-C3B | 3.49 | 131.21 | 124.68 |
| 12 | aA | 816 | CLA | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 12 | bB | 928 | CLA | CMB-C2B-C1B | -3.49 | 123.10 | 128.46 |
| 12 | bA | 828 | CLA | CMB-C2B-C3B | 3.49 | 131.21 | 124.68 |
| 12 | cA | 840 | CLA | C1D-CHD-C4C | -3.49 | 118.53 | 126.06 |
| 12 | aA | 854 | CLA | CMB-C2B-C3B | 3.49 | 131.21 | 124.68 |
| 12 | aA | 809 | CLA | C1D-CHD-C4C | -3.49 | 118.53 | 126.06 |
| 12 | aB | 922 | CLA | C1C-C2C-C3C | -3.49 | 103.29 | 106.96 |
| 12 | aB | 926 | CLA | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 12 | cB | 907 | CLA | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 12 | aB | 918 | CLA | CAC-C3C-C4C | 3.49 | 129.34 | 124.81 |
| 12 | cA | 803 | CLA | O2D-CGD-CBD | 3.49 | 117.47 | 111.27 |
| 12 | bL | 204 | CLA | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 12 | cA | 828 | CLA | C1D-CHD-C4C | -3.49 | 118.53 | 126.06 |
| 12 | bA | 809 | CLA | C1D-CHD-C4C | -3.49 | 118.53 | 126.06 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 816 | CLA | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 12 | aA | 824 | CLA | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 12 | aB | 906 | CLA | C1D-CHD-C4C | -3.49 | 118.53 | 126.06 |
| 12 | cA | 809 | CLA | C1D-CHD-C4C | -3.49 | 118.53 | 126.06 |
| 12 | bA | 853 | CLA | CMB-C2B-C3B | 3.49 | 131.20 | 124.68 |
| 12 | cA | 814 | CLA | C4C-C3C-C2C | -3.49 | 101.82 | 106.90 |
| 12 | cA | 829 | CLA | C4A-NA-C1A | -3.49 | 105.14 | 106.71 |
| 12 | bB | 907 | CLA | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 12 | cL | 204 | CLA | C3B-C4B-NB | 3.49 | 113.72 | 109.21 |
| 12 | aA | 840 | CLA | C1D-CHD-C4C | -3.49 | 118.54 | 126.06 |
| 12 | cA | 853 | CLA | O2D-CGD-O1D | -3.48 | 117.03 | 123.84 |
| 12 | bB | 928 | CLA | C1D-CHD-C4C | -3.48 | 118.54 | 126.06 |
| 12 | bA | 829 | CLA | C4A-NA-C1A | -3.48 | 105.14 | 106.71 |
| 12 | aA | 828 | CLA | CMB-C2B-C3B | 3.48 | 131.19 | 124.68 |
| 12 | aB | 926 | CLA | C1D-CHD-C4C | -3.48 | 118.55 | 126.06 |
| 12 | aB | 928 | CLA | C1D-CHD-C4C | -3.48 | 118.55 | 126.06 |
| 12 | cB | 904 | CLA | C1D-CHD-C4C | -3.48 | 118.55 | 126.06 |
| 12 | bA | 840 | CLA | C1D-CHD-C4C | -3.48 | 118.55 | 126.06 |
| 12 | bA | 840 | CLA | C3C-C4C-NC | 3.48 | 114.48 | 110.57 |
| 12 | aA | 841 | CLA | C1C-C2C-C3C | -3.48 | 103.30 | 106.96 |
| 12 | bB | 924 | CLA | C1C-C2C-C3C | -3.48 | 103.30 | 106.96 |
| 12 | cA | 853 | CLA | CMB-C2B-C3B | 3.48 | 131.19 | 124.68 |
| 12 | aA | 854 | CLA | O2D-CGD-O1D | -3.48 | 117.04 | 123.84 |
| 12 | bB | 923 | CLA | C1D-CHD-C4C | -3.48 | 118.55 | 126.06 |
| 12 | bB | 924 | CLA | CMB-C2B-C3B | 3.48 | 131.19 | 124.68 |
| 12 | bB | 904 | CLA | C1D-CHD-C4C | -3.48 | 118.56 | 126.06 |
| 12 | cB | 922 | CLA | C4A-NA-C1A | -3.48 | 105.14 | 106.71 |
| 12 | bA | 836 | CLA | C1D-CHD-C4C | -3.48 | 118.56 | 126.06 |
| 12 | cB | 936 | CLA | O2D-CGD-O1D | -3.47 | 117.04 | 123.84 |
| 12 | bA | 853 | CLA | O2D-CGD-O1D | -3.47 | 117.05 | 123.84 |
| 12 | aB | 936 | CLA | O2D-CGD-O1D | -3.47 | 117.05 | 123.84 |
| 12 | aA | 844 | CLA | C4C-C3C-C2C | -3.47 | 101.84 | 106.90 |
| 12 | bB | 903 | CLA | CMC-C2C-C1C | 3.47 | 130.33 | 125.04 |
| 12 | cB | 928 | CLA | CMB-C2B-C1B | -3.47 | 123.13 | 128.46 |
| 12 | aB | 924 | CLA | CMB-C2B-C3B | 3.47 | 131.17 | 124.68 |
| 12 | aB | 908 | CLA | C3D-C4D-ND | 3.47 | 115.85 | 110.24 |
| 12 | bB | 926 | CLA | C3B-C4B-NB | 3.47 | 113.70 | 109.21 |
| 15 | bA | 849 | BCR | C15-C14-C13 | -3.47 | 122.36 | 127.31 |
| 12 | cA | 816 | CLA | C1C-C2C-C3C | -3.47 | 103.31 | 106.96 |
| 12 | bB | 901 | CLA | C4C-C3C-C2C | -3.47 | 101.84 | 106.90 |
| 12 | aA | 803 | CLA | O2D-CGD-CBD | 3.47 | 117.43 | 111.27 |
| 12 | aL | 204 | CLA | C3B-C4B-NB | 3.47 | 113.69 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 816 | CLA | C1C-C2C-C3C | -3.47 | 103.31 | 106.96 |
| 12 | bA | 814 | CLA | C4C-C3C-C2C | -3.47 | 101.84 | 106.90 |
| 12 | aB | 903 | CLA | CMC-C2C-C1C | 3.47 | 130.32 | 125.04 |
| 15 | aA | 850 | BCR | C15-C14-C13 | -3.47 | 122.36 | 127.31 |
| 12 | aB | 924 | CLA | C1C-C2C-C3C | -3.46 | 103.31 | 106.96 |
| 12 | bA | 808 | CLA | C3B-C4B-NB | 3.46 | 113.69 | 109.21 |
| 12 | bB | 921 | CLA | C1D-CHD-C4C | -3.46 | 118.58 | 126.06 |
| 12 | cB | 903 | CLA | CMC-C2C-C1C | 3.46 | 130.31 | 125.04 |
| 12 | bA | 803 | CLA | O2D-CGD-CBD | 3.46 | 117.42 | 111.27 |
| 12 | cB | 920 | CLA | C3B-C4B-NB | 3.46 | 113.69 | 109.21 |
| 12 | aA | 816 | CLA | C1C-C2C-C3C | -3.46 | 103.31 | 106.96 |
| 12 | cA | 803 | CLA | C1C-C2C-C3C | -3.46 | 103.31 | 106.96 |
| 12 | cA | 804 | CLA | C1C-C2C-C3C | -3.46 | 103.31 | 106.96 |
| 12 | cA | 805 | CLA | C1C-C2C-C3C | -3.46 | 103.31 | 106.96 |
| 12 | aB | 928 | CLA | CMB-C2B-C1B | -3.46 | 123.14 | 128.46 |
| 12 | bA | 813 | CLA | C4C-C3C-C2C | -3.46 | 101.85 | 106.90 |
| 12 | cB | 908 | CLA | C1D-CHD-C4C | -3.46 | 118.59 | 126.06 |
| 12 | cA | 809 | CLA | CAA-C2A-C3A | -3.46 | 103.30 | 112.78 |
| 15 | cA | 849 | BCR | C15-C14-C13 | -3.46 | 122.37 | 127.31 |
| 12 | aA | 828 | CLA | C4C-C3C-C2C | -3.46 | 101.86 | 106.90 |
| 12 | bA | 802 | CLA | O2D-CGD-O1D | -3.46 | 117.08 | 123.84 |
| 12 | aA | 809 | CLA | CAA-C2A-C3A | -3.46 | 103.31 | 112.78 |
| 12 | bA | 824 | CLA | C3B-C4B-NB | 3.46 | 113.68 | 109.21 |
| 12 | bB | 950 | CLA | C4C-C3C-C2C | -3.46 | 101.86 | 106.90 |
| 12 | cA | 836 | CLA | C1D-CHD-C4C | -3.46 | 118.60 | 126.06 |
| 12 | bA | 809 | CLA | CAA-C2A-C3A | -3.46 | 103.31 | 112.78 |
| 12 | aA | 840 | CLA | C3C-C4C-NC | 3.46 | 114.45 | 110.57 |
| 12 | cB | 908 | CLA | C3D-C4D-ND | 3.46 | 115.83 | 110.24 |
| 12 | cA | 813 | CLA | C4C-C3C-C2C | -3.46 | 101.86 | 106.90 |
| 12 | aB | 921 | CLA | C1D-CHD-C4C | -3.45 | 118.61 | 126.06 |
| 12 | cA | 808 | CLA | C3B-C4B-NB | 3.45 | 113.68 | 109.21 |
| 12 | cB | 922 | CLA | C1C-C2C-C3C | -3.45 | 103.33 | 106.96 |
| 12 | cB | 923 | CLA | O2D-CGD-O1D | -3.45 | 117.08 | 123.84 |
| 12 | cB | 926 | CLA | C3B-C4B-NB | 3.45 | 113.67 | 109.21 |
| 12 | aB | 950 | CLA | C4C-C3C-C2C | -3.45 | 101.86 | 106.90 |
| 12 | aA | 802 | CLA | O2D-CGD-O1D | -3.45 | 117.09 | 123.84 |
| 12 | cB | 924 | CLA | C1C-C2C-C3C | -3.45 | 103.33 | 106.96 |
| 12 | aB | 918 | CLA | CMB-C2B-C3B | 3.45 | 131.13 | 124.68 |
| 12 | bB | 922 | CLA | C1C-C2C-C3C | -3.45 | 103.33 | 106.96 |
| 12 | cA | 819 | CLA | C1D-CHD-C4C | -3.45 | 118.61 | 126.06 |
| 12 | bA | 843 | CLA | C4A-NA-C1A | -3.45 | 105.16 | 106.71 |
| 12 | aA | 839 | CLA | C3B-C4B-NB | 3.45 | 113.67 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 802 | CLA | O2D-CGD-O1D | -3.45 | 117.10 | 123.84 |
| 12 | bB | 908 | CLA | C1D-CHD-C4C | -3.45 | 118.62 | 126.06 |
| 12 | aL | 203 | CLA | O2D-CGD-O1D | -3.45 | 117.10 | 123.84 |
| 12 | cB | 932 | CLA | C4A-NA-C1A | -3.45 | 105.16 | 106.71 |
| 12 | aA | 803 | CLA | C1C-C2C-C3C | -3.45 | 103.33 | 106.96 |
| 12 | bB | 911 | CLA | C1D-CHD-C4C | -3.45 | 118.62 | 126.06 |
| 12 | aA | 819 | CLA | C1D-CHD-C4C | -3.45 | 118.62 | 126.06 |
| 12 | bA | 804 | CLA | C1C-C2C-C3C | -3.45 | 103.33 | 106.96 |
| 12 | aB | 908 | CLA | C1D-CHD-C4C | -3.45 | 118.62 | 126.06 |
| 12 | bA | 819 | CLA | C1D-CHD-C4C | -3.45 | 118.62 | 126.06 |
| 11 | cA | 801 | CL0 | C3D-C2D-C1D | -3.45 | 101.13 | 105.83 |
| 12 | aB | 911 | CLA | C1D-CHD-C4C | -3.45 | 118.63 | 126.06 |
| 12 | aA | 843 | CLA | CMC-C2C-C1C | 3.44 | 130.28 | 125.04 |
| 12 | bB | 908 | CLA | C3D-C4D-ND | 3.44 | 115.81 | 110.24 |
| 12 | aA | 808 | CLA | C3B-C4B-NB | 3.44 | 113.66 | 109.21 |
| 12 | bA | 839 | CLA | C3B-C4B-NB | 3.44 | 113.66 | 109.21 |
| 12 | bB | 920 | CLA | C3B-C4B-NB | 3.44 | 113.66 | 109.21 |
| 11 | aA | 801 | CL0 | C3D-C2D-C1D | -3.44 | 101.13 | 105.83 |
| 11 | bA | 801 | CL0 | C3D-C2D-C1D | -3.44 | 101.13 | 105.83 |
| 12 | aA | 840 | CLA | C4A-NA-C1A | -3.44 | 105.16 | 106.71 |
| 12 | aB | 920 | CLA | C3B-C4B-NB | 3.44 | 113.66 | 109.21 |
| 12 | cA | 843 | CLA | CBA-CAA-C2A | 3.44 | 124.02 | 113.86 |
| 12 | bA | 843 | CLA | CMC-C2C-C1C | 3.44 | 130.28 | 125.04 |
| 12 | aA | 836 | CLA | C1D-CHD-C4C | -3.44 | 118.64 | 126.06 |
| 12 | bA | 843 | CLA | CBA-CAA-C2A | 3.44 | 124.01 | 113.86 |
| 12 | cB | 921 | CLA | C1D-CHD-C4C | -3.44 | 118.64 | 126.06 |
| 12 | aA | 843 | CLA | C4A-NA-C1A | -3.44 | 105.16 | 106.71 |
| 12 | bA | 840 | CLA | C4A-NA-C1A | -3.44 | 105.16 | 106.71 |
| 12 | bB | 923 | CLA | O2D-CGD-O1D | -3.44 | 117.12 | 123.84 |
| 12 | bA | 805 | CLA | C1C-C2C-C3C | -3.44 | 103.34 | 106.96 |
| 12 | bA | 828 | CLA | C4C-C3C-C2C | -3.44 | 101.89 | 106.90 |
| 12 | bA | 818 | CLA | C1-O2A-CGA | 3.44 | 125.46 | 116.44 |
| 12 | aA | 818 | CLA | C1-O2A-CGA | 3.43 | 125.45 | 116.44 |
| 12 | cA | 828 | CLA | C4C-C3C-C2C | -3.43 | 101.89 | 106.90 |
| 12 | bB | 936 | CLA | O2D-CGD-O1D | -3.43 | 117.12 | 123.84 |
| 12 | bB | 918 | CLA | C1D-CHD-C4C | -3.43 | 118.65 | 126.06 |
| 12 | cA | 816 | CLA | CMB-C2B-C3B | 3.43 | 131.10 | 124.68 |
| 12 | aA | 843 | CLA | CBA-CAA-C2A | 3.43 | 124.00 | 113.86 |
| 12 | cA | 839 | CLA | C3B-C4B-NB | 3.43 | 113.64 | 109.21 |
| 12 | cB | 918 | CLA | CMB-C2B-C3B | 3.43 | 131.10 | 124.68 |
| 12 | bB | 918 | CLA | CMB-C2B-C3B | 3.43 | 131.09 | 124.68 |
| 12 | aA | 813 | CLA | C4C-C3C-C2C | -3.43 | 101.90 | 106.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 818 | CLA | C1-O2A-CGA | 3.43 | 125.43 | 116.44 |
| 12 | aA | 835 | CLA | C1D-CHD-C4C | -3.42 | 118.67 | 126.06 |
| 12 | bB | 927 | CLA | C1D-CHD-C4C | -3.42 | 118.67 | 126.06 |
| 12 | cL | 203 | CLA | O2D-CGD-O1D | -3.42 | 117.14 | 123.84 |
| 12 | bA | 803 | CLA | C1C-C2C-C3C | -3.42 | 103.36 | 106.96 |
| 12 | bB | 925 | CLA | C4C-C3C-C2C | -3.42 | 101.91 | 106.90 |
| 15 | bA | 849 | BCR | C15-C16-C17 | -3.42 | 116.47 | 123.47 |
| 12 | bB | 903 | CLA | CMB-C2B-C3B | 3.42 | 131.08 | 124.68 |
| 12 | aB | 950 | CLA | C1D-CHD-C4C | -3.42 | 118.68 | 126.06 |
| 12 | cB | 934 | CLA | CAA-C2A-C3A | -3.42 | 103.41 | 112.78 |
| 12 | cB | 918 | CLA | C1D-CHD-C4C | -3.42 | 118.69 | 126.06 |
| 12 | cA | 843 | CLA | CMC-C2C-C1C | 3.42 | 130.24 | 125.04 |
| 12 | bA | 835 | CLA | C1D-CHD-C4C | -3.41 | 118.69 | 126.06 |
| 12 | aB | 934 | CLA | CAA-C2A-C3A | -3.41 | 103.43 | 112.78 |
| 12 | aA | 843 | CLA | C3B-C4B-NB | 3.41 | 113.62 | 109.21 |
| 12 | cB | 911 | CLA | C1D-CHD-C4C | -3.41 | 118.70 | 126.06 |
| 12 | aB | 923 | CLA | O2D-CGD-O1D | -3.41 | 117.17 | 123.84 |
| 12 | bB | 939 | CLA | CAA-C2A-C3A | -3.41 | 103.44 | 112.78 |
| 12 | aB | 918 | CLA | C1D-CHD-C4C | -3.41 | 118.70 | 126.06 |
| 12 | cA | 835 | CLA | C1D-CHD-C4C | -3.41 | 118.70 | 126.06 |
| 12 | bB | 911 | CLA | C4A-NA-C1A | -3.41 | 105.17 | 106.71 |
| 12 | aB | 927 | CLA | C1D-CHD-C4C | -3.41 | 118.70 | 126.06 |
| 12 | aA | 804 | CLA | C1C-C2C-C3C | -3.41 | 103.37 | 106.96 |
| 12 | cB | 927 | CLA | C1D-CHD-C4C | -3.41 | 118.71 | 126.06 |
| 12 | cA | 843 | CLA | C4A-NA-C1A | -3.41 | 105.17 | 106.71 |
| 12 | aB | 939 | CLA | CAA-C2A-C3A | -3.41 | 103.45 | 112.78 |
| 12 | bB | 950 | CLA | C1D-CHD-C4C | -3.41 | 118.71 | 126.06 |
| 12 | bA | 810 | CLA | C1D-CHD-C4C | -3.41 | 118.71 | 126.06 |
| 15 | cA | 849 | BCR | C15-C16-C17 | -3.41 | 116.50 | 123.47 |
| 12 | aA | 813 | CLA | C1C-C2C-C3C | -3.41 | 103.38 | 106.96 |
| 12 | bA | 830 | CLA | C4C-C3C-C2C | -3.41 | 101.93 | 106.90 |
| 12 | bB | 934 | CLA | CAA-C2A-C3A | -3.41 | 103.45 | 112.78 |
| 12 | bL | 203 | CLA | O2D-CGD-O1D | -3.40 | 117.18 | 123.84 |
| 12 | cA | 843 | CLA | C3B-C4B-NB | 3.40 | 113.61 | 109.21 |
| 12 | bA | 816 | CLA | CMB-C2B-C3B | 3.40 | 131.05 | 124.68 |
| 12 | aA | 844 | CLA | C1D-CHD-C4C | -3.40 | 118.72 | 126.06 |
| 12 | cA | 830 | CLA | C4C-C3C-C2C | -3.40 | 101.94 | 106.90 |
| 12 | cA | 805 | CLA | CMC-C2C-C1C | 3.40 | 130.22 | 125.04 |
| 12 | cB | 910 | CLA | CAA-C2A-C3A | -3.40 | 103.47 | 112.78 |
| 12 | aA | 816 | CLA | CMB-C2B-C3B | 3.40 | 131.04 | 124.68 |
| 12 | cA | 820 | CLA | C4-C3-C5 | 3.40 | 120.99 | 115.27 |
| 12 | cB | 903 | CLA | CMB-C2B-C3B | 3.40 | 131.04 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 806 | CLA | CHB-C4A-NA | 3.40 | 129.21 | 124.51 |
| 12 | bA | 805 | CLA | CAA-C2A-C3A | -3.40 | 103.47 | 112.78 |
| 12 | cB | 923 | CLA | C4A-NA-C1A | -3.40 | 105.18 | 106.71 |
| 12 | aA | 810 | CLA | C1D-CHD-C4C | -3.40 | 118.73 | 126.06 |
| 12 | cB | 939 | CLA | CAA-C2A-C3A | -3.39 | 103.48 | 112.78 |
| 12 | cA | 828 | CLA | CAA-C2A-C3A | -3.39 | 103.49 | 112.78 |
| 12 | bB | 922 | CLA | C4A-NA-C1A | -3.39 | 105.18 | 106.71 |
| 12 | aA | 820 | CLA | C4-C3-C5 | 3.39 | 120.98 | 115.27 |
| 12 | aB | 903 | CLA | CMB-C2B-C3B | 3.39 | 131.02 | 124.68 |
| 12 | aA | 828 | CLA | CAA-C2A-C3A | -3.39 | 103.49 | 112.78 |
| 12 | aA | 818 | CLA | C4C-C3C-C2C | -3.39 | 101.96 | 106.90 |
| 12 | bB | 910 | CLA | CAA-C2A-C3A | -3.39 | 103.50 | 112.78 |
| 12 | cB | 925 | CLA | C4C-C3C-C2C | -3.39 | 101.96 | 106.90 |
| 12 | cB | 918 | CLA | CAA-C2A-C3A | -3.39 | 103.50 | 112.78 |
| 12 | aA | 805 | CLA | C1C-C2C-C3C | -3.39 | 103.39 | 106.96 |
| 12 | bB | 936 | CLA | C3B-C4B-NB | 3.39 | 113.59 | 109.21 |
| 12 | cB | 930 | CLA | C1D-CHD-C4C | -3.39 | 118.75 | 126.06 |
| 12 | cB | 916 | CLA | C4C-C3C-C2C | -3.39 | 101.96 | 106.90 |
| 12 | aB | 918 | CLA | CAA-C2A-C3A | -3.39 | 103.51 | 112.78 |
| 12 | cB | 936 | CLA | C3B-C4B-NB | 3.39 | 113.59 | 109.21 |
| 12 | bB | 919 | CLA | O2D-CGD-O1D | -3.39 | 117.22 | 123.84 |
| 12 | cA | 809 | CLA | C4A-NA-C1A | -3.39 | 105.18 | 106.71 |
| 12 | cB | 919 | CLA | O2D-CGD-O1D | -3.38 | 117.22 | 123.84 |
| 12 | bA | 828 | CLA | CAA-C2A-C3A | -3.38 | 103.52 | 112.78 |
| 12 | aB | 918 | CLA | O2D-CGD-CBD | 3.38 | 117.28 | 111.27 |
| 12 | aB | 912 | CLA | C1D-CHD-C4C | -3.38 | 118.76 | 126.06 |
| 12 | aB | 911 | CLA | C4A-NA-C1A | -3.38 | 105.19 | 106.71 |
| 12 | aB | 923 | CLA | C4A-NA-C1A | -3.38 | 105.19 | 106.71 |
| 12 | cB | 930 | CLA | C4A-NA-C1A | -3.38 | 105.19 | 106.71 |
| 12 | aB | 905 | CLA | O2D-CGD-CBD | 3.38 | 117.28 | 111.27 |
| 12 | bB | 918 | CLA | O2D-CGD-CBD | 3.38 | 117.28 | 111.27 |
| 12 | bB | 918 | CLA | CAA-C2A-C3A | -3.38 | 103.52 | 112.78 |
| 12 | cA | 805 | CLA | CAA-C2A-C3A | -3.38 | 103.52 | 112.78 |
| 12 | bA | 843 | CLA | C3B-C4B-NB | 3.38 | 113.58 | 109.21 |
| 12 | cA | 818 | CLA | C3B-C4B-NB | 3.38 | 113.58 | 109.21 |
| 12 | cA | 822 | CLA | C3B-C4B-NB | 3.38 | 113.58 | 109.21 |
| 12 | cA | 818 | CLA | C4C-C3C-C2C | -3.38 | 101.97 | 106.90 |
| 15 | aA | 850 | BCR | C15-C16-C17 | -3.38 | 116.55 | 123.47 |
| 12 | aA | 805 | CLA | CAA-C2A-C3A | -3.38 | 103.53 | 112.78 |
| 12 | aB | 910 | CLA | CAA-C2A-C3A | -3.38 | 103.53 | 112.78 |
| 12 | bA | 813 | CLA | C1C-C2C-C3C | -3.38 | 103.41 | 106.96 |
| 12 | bA | 820 | CLA | C4-C3-C5 | 3.38 | 120.95 | 115.27 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 905 | CLA | O2D-CGD-CBD | 3.37 | 117.26 | 111.27 |
| 12 | aA | 818 | CLA | C3B-C4B-NB | 3.37 | 113.57 | 109.21 |
| 12 | aA | 844 | CLA | CMB-C2B-C3B | 3.37 | 130.99 | 124.68 |
| 12 | cA | 802 | CLA | C1D-CHD-C4C | -3.37 | 118.78 | 126.06 |
| 12 | aA | 832 | CLA | C4A-NA-C1A | -3.37 | 105.19 | 106.71 |
| 12 | aB | 925 | CLA | C4C-C3C-C2C | -3.37 | 101.98 | 106.90 |
| 12 | bA | 820 | CLA | C4A-NA-C1A | -3.37 | 105.19 | 106.71 |
| 12 | cB | 918 | CLA | O2D-CGD-CBD | 3.37 | 117.26 | 111.27 |
| 12 | aB | 911 | CLA | CAC-C3C-C4C | 3.37 | 129.18 | 124.81 |
| 12 | aB | 919 | CLA | O2D-CGD-O1D | -3.37 | 117.25 | 123.84 |
| 12 | cA | 813 | CLA | C1C-C2C-C3C | -3.37 | 103.41 | 106.96 |
| 12 | bB | 912 | CLA | C1D-CHD-C4C | -3.37 | 118.79 | 126.06 |
| 12 | aB | 930 | CLA | C1D-CHD-C4C | -3.37 | 118.79 | 126.06 |
| 12 | cB | 905 | CLA | CMC-C2C-C1C | 3.37 | 130.17 | 125.04 |
| 12 | bB | 916 | CLA | C4C-C3C-C2C | -3.37 | 101.99 | 106.90 |
| 12 | bA | 806 | CLA | CHB-C4A-NA | 3.37 | 129.17 | 124.51 |
| 12 | bA | 833 | CLA | C1D-CHD-C4C | -3.37 | 118.80 | 126.06 |
| 12 | bB | 930 | CLA | C1D-CHD-C4C | -3.37 | 118.80 | 126.06 |
| 12 | cA | 810 | CLA | C1D-CHD-C4C | -3.37 | 118.80 | 126.06 |
| 12 | cA | 836 | CLA | CHC-C1C-C2C | -3.37 | 117.41 | 126.72 |
| 12 | aA | 830 | CLA | C4C-C3C-C2C | -3.36 | 102.00 | 106.90 |
| 12 | aB | 919 | CLA | C1D-CHD-C4C | -3.36 | 118.81 | 126.06 |
| 12 | bA | 805 | CLA | CMC-C2C-C1C | 3.36 | 130.16 | 125.04 |
| 12 | bB | 911 | CLA | CAC-C3C-C4C | 3.36 | 129.17 | 124.81 |
| 12 | aB | 936 | CLA | C3B-C4B-NB | 3.36 | 113.55 | 109.21 |
| 12 | cL | 203 | CLA | CMB-C2B-C3B | 3.36 | 130.96 | 124.68 |
| 12 | aA | 811 | CLA | CAA-C2A-C3A | -3.36 | 103.58 | 112.78 |
| 12 | bB | 909 | CLA | CAC-C3C-C4C | 3.36 | 129.17 | 124.81 |
| 12 | aB | 922 | CLA | C4A-NA-C1A | -3.36 | 105.20 | 106.71 |
| 12 | aA | 806 | CLA | CHB-C4A-NA | 3.36 | 129.16 | 124.51 |
| 12 | bB | 922 | CLA | C3B-C4B-NB | 3.36 | 113.55 | 109.21 |
| 12 | aL | 203 | CLA | CMB-C2B-C3B | 3.36 | 130.96 | 124.68 |
| 12 | aA | 805 | CLA | C1D-CHD-C4C | -3.36 | 118.81 | 126.06 |
| 12 | cB | 909 | CLA | CAC-C3C-C4C | 3.36 | 129.17 | 124.81 |
| 12 | cB | 905 | CLA | O2D-CGD-CBD | 3.36 | 117.23 | 111.27 |
| 12 | cA | 832 | CLA | C4A-NA-C1A | -3.36 | 105.20 | 106.71 |
| 12 | bL | 203 | CLA | CMB-C2B-C3B | 3.36 | 130.96 | 124.68 |
| 12 | bA | 817 | CLA | C3B-C4B-NB | 3.36 | 113.55 | 109.21 |
| 12 | bA | 805 | CLA | C1D-CHD-C4C | -3.35 | 118.82 | 126.06 |
| 12 | cB | 912 | CLA | C1D-CHD-C4C | -3.35 | 118.82 | 126.06 |
| 12 | aB | 901 | CLA | C1C-C2C-C3C | -3.35 | 103.43 | 106.96 |
| 12 | cA | 811 | CLA | CAA-C2A-C3A | -3.35 | 103.60 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 911 | CLA | CAC-C3C-C4C | 3.35 | 129.16 | 124.81 |
| 12 | bA | 811 | CLA | CAA-C2A-C3A | -3.35 | 103.60 | 112.78 |
| 12 | bB | 905 | CLA | CMC-C2C-C1C | 3.35 | 130.14 | 125.04 |
| 12 | bA | 802 | CLA | C1D-CHD-C4C | -3.35 | 118.83 | 126.06 |
| 12 | aA | 805 | CLA | CMC-C2C-C1C | 3.35 | 130.14 | 125.04 |
| 12 | aB | 905 | CLA | CMC-C2C-C1C | 3.35 | 130.14 | 125.04 |
| 12 | bA | 816 | CLA | C4C-C3C-C2C | -3.35 | 102.02 | 106.90 |
| 12 | aA | 820 | CLA | C3B-C4B-NB | 3.35 | 113.54 | 109.21 |
| 12 | aB | 920 | CLA | C1D-CHD-C4C | -3.35 | 118.84 | 126.06 |
| 12 | bB | 901 | CLA | C1C-C2C-C3C | -3.35 | 103.44 | 106.96 |
| 12 | cA | 807 | CLA | CMC-C2C-C1C | 3.35 | 130.14 | 125.04 |
| 12 | bB | 920 | CLA | C1D-CHD-C4C | -3.35 | 118.84 | 126.06 |
| 12 | cA | 805 | CLA | C1D-CHD-C4C | -3.35 | 118.84 | 126.06 |
| 12 | aB | 927 | CLA | C3D-C2D-C1D | -3.35 | 101.26 | 105.83 |
| 12 | aB | 916 | CLA | C4C-C3C-C2C | -3.35 | 102.02 | 106.90 |
| 12 | aA | 822 | CLA | C3B-C4B-NB | 3.35 | 113.54 | 109.21 |
| 12 | bB | 919 | CLA | C1D-CHD-C4C | -3.35 | 118.84 | 126.06 |
| 12 | aA | 829 | CLA | C4A-NA-C1A | -3.35 | 105.20 | 106.71 |
| 12 | bB | 931 | CLA | C4C-C3C-C2C | -3.35 | 102.02 | 106.90 |
| 12 | bA | 818 | CLA | C4C-C3C-C2C | -3.34 | 102.02 | 106.90 |
| 12 | cB | 919 | CLA | C1D-CHD-C4C | -3.34 | 118.84 | 126.06 |
| 12 | cL | 204 | CLA | CMB-C2B-C3B | 3.34 | 130.93 | 124.68 |
| 12 | aB | 925 | CLA | C1C-C2C-C3C | -3.34 | 103.44 | 106.96 |
| 12 | aA | 820 | CLA | C4A-NA-C1A | -3.34 | 105.20 | 106.71 |
| 12 | bA | 836 | CLA | CHC-C1C-C2C | -3.34 | 117.47 | 126.72 |
| 12 | bA | 818 | CLA | C3B-C4B-NB | 3.34 | 113.53 | 109.21 |
| 12 | bB | 950 | CLA | C1C-C2C-C3C | -3.34 | 103.44 | 106.96 |
| 12 | cB | 928 | CLA | C4C-C3C-C2C | -3.34 | 102.03 | 106.90 |
| 12 | bB | 950 | CLA | CMB-C2B-C3B | 3.34 | 130.93 | 124.68 |
| 12 | aB | 931 | CLA | C4C-C3C-C2C | -3.34 | 102.03 | 106.90 |
| 12 | aB | 930 | CLA | C4A-NA-C1A | -3.34 | 105.20 | 106.71 |
| 12 | aA | 817 | CLA | C3B-C4B-NB | 3.34 | 113.53 | 109.21 |
| 12 | cB | 901 | CLA | C1C-C2C-C3C | -3.34 | 103.44 | 106.96 |
| 12 | aB | 950 | CLA | CMB-C2B-C3B | 3.34 | 130.92 | 124.68 |
| 12 | aB | 922 | CLA | C3B-C4B-NB | 3.34 | 113.52 | 109.21 |
| 12 | bB | 926 | CLA | C4A-NA-C1A | -3.34 | 105.21 | 106.71 |
| 12 | aA | 807 | CLA | CMC-C2C-C1C | 3.34 | 130.12 | 125.04 |
| 12 | aB | 922 | CLA | CMB-C2B-C3B | 3.34 | 130.92 | 124.68 |
| 12 | bB | 922 | CLA | CMB-C2B-C3B | 3.34 | 130.92 | 124.68 |
| 12 | bA | 820 | CLA | C3B-C4B-NB | 3.33 | 113.52 | 109.21 |
| 12 | aB | 909 | CLA | CAC-C3C-C4C | 3.33 | 129.13 | 124.81 |
| 12 | bL | 204 | CLA | CAC-C3C-C4C | 3.33 | 129.13 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 844 | CLA | C1C-C2C-C3C | -3.33 | 103.45 | 106.96 |
| 12 | aA | 802 | CLA | C1D-CHD-C4C | -3.33 | 118.87 | 126.06 |
| 12 | bA | 807 | CLA | CHD-C4C-NC | 3.33 | 129.45 | 124.20 |
| 12 | bB | 932 | CLA | C4A-NA-C1A | -3.33 | 105.21 | 106.71 |
| 12 | aA | 807 | CLA | CHD-C4C-NC | 3.33 | 129.45 | 124.20 |
| 12 | bA | 822 | CLA | C3B-C4B-NB | 3.33 | 113.52 | 109.21 |
| 12 | aB | 928 | CLA | C4C-C3C-C2C | -3.33 | 102.04 | 106.90 |
| 12 | cB | 925 | CLA | C1C-C2C-C3C | -3.33 | 103.45 | 106.96 |
| 12 | bL | 204 | CLA | CMB-C2B-C3B | 3.33 | 130.91 | 124.68 |
| 12 | bA | 807 | CLA | CMC-C2C-C1C | 3.33 | 130.11 | 125.04 |
| 12 | cB | 920 | CLA | C1D-CHD-C4C | -3.33 | 118.88 | 126.06 |
| 12 | aA | 816 | CLA | C4C-C3C-C2C | -3.33 | 102.05 | 106.90 |
| 12 | aA | 836 | CLA | CHC-C1C-C2C | -3.33 | 117.52 | 126.72 |
| 12 | aA | 841 | CLA | CAC-C3C-C4C | 3.33 | 129.13 | 124.81 |
| 12 | cA | 833 | CLA | C1D-CHD-C4C | -3.33 | 118.88 | 126.06 |
| 12 | bA | 831 | CLA | CMA-C3A-C4A | -3.33 | 102.83 | 111.77 |
| 12 | aA | 833 | CLA | C1D-CHD-C4C | -3.32 | 118.89 | 126.06 |
| 12 | cB | 935 | CLA | C3B-C4B-NB | 3.32 | 113.51 | 109.21 |
| 12 | cA | 812 | CLA | CAA-C2A-C3A | -3.32 | 103.67 | 112.78 |
| 12 | cA | 817 | CLA | C3B-C4B-NB | 3.32 | 113.50 | 109.21 |
| 12 | cA | 816 | CLA | C4C-C3C-C2C | -3.32 | 102.06 | 106.90 |
| 12 | cA | 831 | CLA | CMA-C3A-C4A | -3.32 | 102.85 | 111.77 |
| 12 | aL | 204 | CLA | CMB-C2B-C3B | 3.32 | 130.89 | 124.68 |
| 12 | aB | 950 | CLA | C1C-C2C-C3C | -3.32 | 103.47 | 106.96 |
| 12 | aA | 812 | CLA | CAA-C2A-C3A | -3.32 | 103.69 | 112.78 |
| 12 | bB | 923 | CLA | C4A-NA-C1A | -3.32 | 105.21 | 106.71 |
| 12 | aA | 831 | CLA | CMA-C3A-C4A | -3.32 | 102.86 | 111.77 |
| 12 | cB | 929 | CLA | C1D-CHD-C4C | -3.32 | 118.90 | 126.06 |
| 12 | cB | 923 | CLA | CMC-C2C-C1C | 3.32 | 130.09 | 125.04 |
| 12 | cB | 916 | CLA | C4A-NA-C1A | -3.32 | 105.22 | 106.71 |
| 12 | bB | 929 | CLA | C1D-CHD-C4C | -3.32 | 118.91 | 126.06 |
| 12 | cB | 922 | CLA | C3B-C4B-NB | 3.32 | 113.50 | 109.21 |
| 12 | cB | 931 | CLA | C4C-C3C-C2C | -3.31 | 102.07 | 106.90 |
| 12 | aB | 929 | CLA | C1D-CHD-C4C | -3.31 | 118.91 | 126.06 |
| 12 | cA | 841 | CLA | CAC-C3C-C4C | 3.31 | 129.11 | 124.81 |
| 12 | bA | 812 | CLA | CAA-C2A-C3A | -3.31 | 103.70 | 112.78 |
| 12 | cA | 824 | CLA | C1D-CHD-C4C | -3.31 | 118.91 | 126.06 |
| 12 | aB | 913 | CLA | CMC-C2C-C1C | 3.31 | 130.08 | 125.04 |
| 12 | bB | 927 | CLA | C3D-C2D-C1D | -3.31 | 101.31 | 105.83 |
| 12 | aA | 821 | CLA | CAC-C3C-C4C | 3.31 | 129.10 | 124.81 |
| 12 | aB | 909 | CLA | C4C-C3C-C2C | -3.31 | 102.08 | 106.90 |
| 12 | bA | 832 | CLA | C4A-NA-C1A | -3.31 | 105.22 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 922 | CLA | CMB-C2B-C3B | 3.31 | 130.87 | 124.68 |
| 12 | cA | 834 | CLA | C3C-C4C-NC | 3.31 | 114.28 | 110.57 |
| 12 | cA | 807 | CLA | CHD-C4C-NC | 3.31 | 129.41 | 124.20 |
| 12 | aB | 923 | CLA | CMC-C2C-C1C | 3.31 | 130.07 | 125.04 |
| 12 | bA | 824 | CLA | C1D-CHD-C4C | -3.31 | 118.92 | 126.06 |
| 12 | aA | 804 | CLA | C4C-C3C-C2C | -3.31 | 102.08 | 106.90 |
| 12 | cA | 817 | CLA | O2D-CGD-O1D | -3.31 | 117.37 | 123.84 |
| 12 | cB | 927 | CLA | C3D-C2D-C1D | -3.30 | 101.32 | 105.83 |
| 12 | bB | 923 | CLA | CMC-C2C-C1C | 3.30 | 130.07 | 125.04 |
| 12 | bA | 804 | CLA | C4C-C3C-C2C | -3.30 | 102.08 | 106.90 |
| 12 | bB | 928 | CLA | C4C-C3C-C2C | -3.30 | 102.08 | 106.90 |
| 12 | cA | 840 | CLA | CAC-C3C-C4C | 3.30 | 129.09 | 124.81 |
| 12 | aA | 809 | CLA | C4A-NA-C1A | -3.30 | 105.22 | 106.71 |
| 12 | bA | 805 | CLA | CMB-C2B-C3B | 3.30 | 130.85 | 124.68 |
| 12 | bA | 834 | CLA | C3C-C4C-NC | 3.30 | 114.27 | 110.57 |
| 12 | cB | 909 | CLA | C4C-C3C-C2C | -3.30 | 102.09 | 106.90 |
| 12 | bA | 817 | CLA | O2D-CGD-O1D | -3.30 | 117.39 | 123.84 |
| 12 | bB | 914 | CLA | C3B-C4B-NB | 3.30 | 113.47 | 109.21 |
| 12 | bB | 918 | CLA | C1C-C2C-C3C | -3.30 | 103.49 | 106.96 |
| 12 | aA | 805 | CLA | CMB-C2B-C3B | 3.29 | 130.84 | 124.68 |
| 12 | bA | 809 | CLA | C4A-NA-C1A | -3.29 | 105.22 | 106.71 |
| 12 | bA | 841 | CLA | CAC-C3C-C4C | 3.29 | 129.08 | 124.81 |
| 12 | cA | 820 | CLA | C3B-C4B-NB | 3.29 | 113.47 | 109.21 |
| 12 | aB | 935 | CLA | C3B-C4B-NB | 3.29 | 113.47 | 109.21 |
| 12 | bA | 821 | CLA | CAC-C3C-C4C | 3.29 | 129.08 | 124.81 |
| 12 | aA | 824 | CLA | C1D-CHD-C4C | -3.29 | 118.95 | 126.06 |
| 12 | bB | 905 | CLA | C4-C3-C5 | 3.29 | 120.81 | 115.27 |
| 12 | bA | 818 | CLA | C1C-C2C-C3C | -3.29 | 103.50 | 106.96 |
| 12 | bA | 840 | CLA | CHC-C1C-C2C | -3.29 | 117.62 | 126.72 |
| 12 | cA | 821 | CLA | CAC-C3C-C4C | 3.29 | 129.08 | 124.81 |
| 12 | aB | 931 | CLA | C1C-C2C-C3C | -3.29 | 103.50 | 106.96 |
| 12 | aL | 204 | CLA | CAC-C3C-C4C | 3.29 | 129.08 | 124.81 |
| 12 | cB | 907 | CLA | CHC-C1C-C2C | -3.29 | 117.62 | 126.72 |
| 16 | bA | 852 | LHG | O8-C23-C24 | 3.29 | 120.00 | 111.38 |
| 12 | cB | 931 | CLA | C1C-C2C-C3C | -3.29 | 103.50 | 106.96 |
| 12 | bB | 909 | CLA | C4C-C3C-C2C | -3.29 | 102.11 | 106.90 |
| 12 | cB | 930 | CLA | CAA-C2A-C3A | -3.28 | 103.78 | 112.78 |
| 12 | cA | 804 | CLA | C4C-C3C-C2C | -3.28 | 102.11 | 106.90 |
| 12 | cB | 918 | CLA | C1C-C2C-C3C | -3.28 | 103.50 | 106.96 |
| 12 | cB | 905 | CLA | C1-C2-C3 | -3.28 | 120.36 | 126.04 |
| 12 | aA | 840 | CLA | CHC-C1C-C2C | -3.28 | 117.64 | 126.72 |
| 12 | cA | 837 | CLA | C1C-C2C-C3C | -3.28 | 103.50 | 106.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 13 | cB | 940 | 1L3 | C14-C15-C16 | -3.28 | 121.33 | 126.79 |
| 12 | bA | 832 | CLA | C1D-CHD-C4C | -3.28 | 118.98 | 126.06 |
| 12 | cL | 204 | CLA | CAC-C3C-C4C | 3.28 | 129.07 | 124.81 |
| 16 | aA | 853 | LHG | O8-C23-C24 | 3.28 | 119.99 | 111.38 |
| 12 | cA | 805 | CLA | CMB-C2B-C3B | 3.28 | 130.82 | 124.68 |
| 12 | bA | 825 | CLA | C4C-C3C-C2C | -3.28 | 102.12 | 106.90 |
| 12 | aA | 817 | CLA | O2D-CGD-O1D | -3.28 | 117.42 | 123.84 |
| 12 | cA | 853 | CLA | C3B-C4B-NB | 3.28 | 113.45 | 109.21 |
| 12 | bB | 905 | CLA | C1-C2-C3 | -3.28 | 120.37 | 126.04 |
| 12 | bB | 935 | CLA | C3B-C4B-NB | 3.28 | 113.45 | 109.21 |
| 12 | bB | 930 | CLA | CAA-C2A-C3A | -3.28 | 103.80 | 112.78 |
| 12 | aA | 813 | CLA | C3B-C4B-NB | 3.28 | 113.45 | 109.21 |
| 12 | aA | 833 | CLA | C4A-NA-C1A | -3.28 | 105.23 | 106.71 |
| 12 | aB | 916 | CLA | C4A-NA-C1A | -3.28 | 105.23 | 106.71 |
| 12 | bA | 803 | CLA | C4A-NA-C1A | -3.28 | 105.23 | 106.71 |
| 12 | bB | 925 | CLA | C1C-C2C-C3C | -3.28 | 103.51 | 106.96 |
| 12 | cB | 907 | CLA | C4C-C3C-C2C | -3.28 | 102.12 | 106.90 |
| 12 | bB | 931 | CLA | C1C-C2C-C3C | -3.28 | 103.51 | 106.96 |
| 12 | aA | 832 | CLA | C1D-CHD-C4C | -3.27 | 118.99 | 126.06 |
| 12 | bB | 913 | CLA | CMC-C2C-C1C | 3.27 | 130.03 | 125.04 |
| 12 | cB | 913 | CLA | CMC-C2C-C1C | 3.27 | 130.03 | 125.04 |
| 12 | aB | 907 | CLA | CHC-C1C-C2C | -3.27 | 117.67 | 126.72 |
| 16 | cA | 852 | LHG | O8-C23-C24 | 3.27 | 119.96 | 111.38 |
| 12 | aA | 818 | CLA | C4-C3-C5 | 3.27 | 120.78 | 115.27 |
| 12 | aA | 837 | CLA | C1C-C2C-C3C | -3.27 | 103.52 | 106.96 |
| 12 | cA | 840 | CLA | CHC-C1C-C2C | -3.27 | 117.67 | 126.72 |
| 12 | cB | 921 | CLA | CMB-C2B-C3B | 3.27 | 130.80 | 124.68 |
| 12 | bA | 837 | CLA | C1C-C2C-C3C | -3.27 | 103.52 | 106.96 |
| 12 | cB | 932 | CLA | C4C-C3C-C2C | -3.27 | 102.13 | 106.90 |
| 12 | bB | 939 | CLA | CHC-C1C-C2C | -3.27 | 117.68 | 126.72 |
| 12 | aB | 930 | CLA | CAA-C2A-C3A | -3.27 | 103.82 | 112.78 |
| 12 | bB | 927 | CLA | C4A-NA-C1A | -3.27 | 105.24 | 106.71 |
| 12 | bA | 840 | CLA | CAC-C3C-C4C | 3.27 | 129.05 | 124.81 |
| 12 | cA | 832 | CLA | C1D-CHD-C4C | -3.27 | 119.01 | 126.06 |
| 12 | aB | 902 | CLA | CMB-C2B-C3B | 3.27 | 130.79 | 124.68 |
| 12 | bA | 831 | CLA | C4C-C3C-C2C | -3.27 | 102.13 | 106.90 |
| 12 | cA | 825 | CLA | C4C-C3C-C2C | -3.27 | 102.14 | 106.90 |
| 12 | bB | 916 | CLA | C4A-NA-C1A | -3.27 | 105.24 | 106.71 |
| 12 | bB | 907 | CLA | CHC-C1C-C2C | -3.27 | 117.68 | 126.72 |
| 12 | aB | 905 | CLA | C4-C3-C5 | 3.27 | 120.77 | 115.27 |
| 12 | bA | 813 | CLA | C3B-C4B-NB | 3.26 | 113.43 | 109.21 |
| 13 | bB | 940 | 1L3 | C14-C15-C16 | -3.26 | 121.36 | 126.79 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 13 | aB | 940 | 1L3 | C14-C15-C16 | -3.26 | 121.36 | 126.79 |
| 12 | aB | 918 | CLA | C1C-C2C-C3C | -3.26 | 103.53 | 106.96 |
| 12 | aA | 834 | CLA | C3C-C4C-NC | 3.26 | 114.23 | 110.57 |
| 12 | aB | 939 | CLA | CHC-C1C-C2C | -3.26 | 117.70 | 126.72 |
| 12 | aA | 840 | CLA | CAC-C3C-C4C | 3.26 | 129.04 | 124.81 |
| 12 | bB | 949 | CLA | C3B-C4B-NB | 3.26 | 113.43 | 109.21 |
| 12 | aB | 936 | CLA | C1D-CHD-C4C | -3.26 | 119.02 | 126.06 |
| 12 | bB | 921 | CLA | CMB-C2B-C3B | 3.26 | 130.78 | 124.68 |
| 12 | aB | 905 | CLA | C1-C2-C3 | -3.26 | 120.40 | 126.04 |
| 12 | aB | 914 | CLA | C3B-C4B-NB | 3.26 | 113.42 | 109.21 |
| 12 | cB | 939 | CLA | CHC-C1C-C2C | -3.26 | 117.70 | 126.72 |
| 12 | cB | 901 | CLA | C3B-C4B-NB | 3.26 | 113.42 | 109.21 |
| 12 | cB | 934 | CLA | CMB-C2B-C3B | 3.26 | 130.78 | 124.68 |
| 12 | bB | 934 | CLA | CMB-C2B-C3B | 3.26 | 130.78 | 124.68 |
| 12 | aA | 854 | CLA | C3B-C4B-NB | 3.26 | 113.42 | 109.21 |
| 12 | bA | 819 | CLA | C3B-C4B-NB | 3.26 | 113.42 | 109.21 |
| 12 | cB | 914 | CLA | C3B-C4B-NB | 3.26 | 113.42 | 109.21 |
| 12 | bB | 932 | CLA | C4C-C3C-C2C | -3.26 | 102.15 | 106.90 |
| 12 | cB | 949 | CLA | C3B-C4B-NB | 3.26 | 113.42 | 109.21 |
| 12 | aB | 932 | CLA | C4C-C3C-C2C | -3.26 | 102.15 | 106.90 |
| 12 | cB | 918 | CLA | C4C-C3C-C2C | -3.26 | 102.15 | 106.90 |
| 12 | aA | 821 | CLA | C4C-C3C-C2C | -3.26 | 102.15 | 106.90 |
| 12 | cA | 821 | CLA | C4C-C3C-C2C | -3.26 | 102.15 | 106.90 |
| 12 | aB | 934 | CLA | CMB-C2B-C3B | 3.26 | 130.77 | 124.68 |
| 12 | bA | 853 | CLA | C3B-C4B-NB | 3.25 | 113.42 | 109.21 |
| 12 | cB | 912 | CLA | CAC-C3C-C4C | 3.25 | 129.03 | 124.81 |
| 12 | cB | 936 | CLA | C1D-CHD-C4C | -3.25 | 119.04 | 126.06 |
| 12 | aB | 921 | CLA | CMB-C2B-C3B | 3.25 | 130.77 | 124.68 |
| 12 | cA | 818 | CLA | CAA-C2A-C3A | -3.25 | 103.87 | 112.78 |
| 12 | cB | 902 | CLA | CMB-C2B-C3B | 3.25 | 130.76 | 124.68 |
| 12 | aB | 949 | CLA | C3B-C4B-NB | 3.25 | 113.42 | 109.21 |
| 12 | bB | 907 | CLA | C4C-C3C-C2C | -3.25 | 102.16 | 106.90 |
| 12 | bB | 908 | CLA | CAA-C2A-C3A | -3.25 | 103.87 | 112.78 |
| 12 | bB | 932 | CLA | C3B-C4B-NB | 3.25 | 113.41 | 109.21 |
| 12 | cA | 813 | CLA | C3B-C4B-NB | 3.25 | 113.41 | 109.21 |
| 12 | cB | 904 | CLA | C4-C3-C5 | 3.25 | 120.74 | 115.27 |
| 12 | bB | 927 | CLA | CED-O2D-CGD | 3.25 | 123.29 | 115.94 |
| 12 | aB | 932 | CLA | C3B-C4B-NB | 3.25 | 113.41 | 109.21 |
| 12 | cB | 922 | CLA | C4C-C3C-C2C | -3.25 | 102.16 | 106.90 |
| 12 | aA | 841 | CLA | C4C-C3C-C2C | -3.25 | 102.16 | 106.90 |
| 12 | cA | 820 | CLA | C4A-NA-C1A | -3.25 | 105.25 | 106.71 |
| 12 | cA | 840 | CLA | O2A-CGA-CBA | 3.25 | 122.10 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 927 | CLA | CED-O2D-CGD | 3.25 | 123.28 | 115.94 |
| 12 | aA | 819 | CLA | C3B-C4B-NB | 3.25 | 113.41 | 109.21 |
| 12 | cB | 908 | CLA | CAA-C2A-C3A | -3.25 | 103.89 | 112.78 |
| 12 | cA | 818 | CLA | C1C-C2C-C3C | -3.25 | 103.54 | 106.96 |
| 12 | aA | 818 | CLA | CAA-C2A-C3A | -3.25 | 103.89 | 112.78 |
| 12 | bA | 840 | CLA | O2A-CGA-CBA | 3.25 | 122.09 | 111.91 |
| 12 | cA | 841 | CLA | C4C-C3C-C2C | -3.24 | 102.17 | 106.90 |
| 15 | bB | 945 | BCR | C15-C14-C13 | -3.24 | 122.68 | 127.31 |
| 12 | aB | 927 | CLA | CED-O2D-CGD | 3.24 | 123.28 | 115.94 |
| 12 | cB | 905 | CLA | C4-C3-C5 | 3.24 | 120.73 | 115.27 |
| 12 | cA | 831 | CLA | C4C-C3C-C2C | -3.24 | 102.17 | 106.90 |
| 12 | cA | 819 | CLA | C3B-C4B-NB | 3.24 | 113.40 | 109.21 |
| 12 | aB | 912 | CLA | CAC-C3C-C4C | 3.24 | 129.01 | 124.81 |
| 12 | bB | 912 | CLA | CAC-C3C-C4C | 3.24 | 129.01 | 124.81 |
| 12 | aA | 818 | CLA | C1C-C2C-C3C | -3.24 | 103.55 | 106.96 |
| 12 | bB | 918 | CLA | C4C-C3C-C2C | -3.24 | 102.18 | 106.90 |
| 12 | aA | 833 | CLA | C3B-C4B-NB | 3.24 | 113.40 | 109.21 |
| 12 | aB | 918 | CLA | C4C-C3C-C2C | -3.24 | 102.18 | 106.90 |
| 12 | bB | 922 | CLA | C4C-C3C-C2C | -3.24 | 102.18 | 106.90 |
| 12 | bL | 204 | CLA | C1D-CHD-C4C | -3.24 | 119.08 | 126.06 |
| 12 | aA | 825 | CLA | C4C-C3C-C2C | -3.23 | 102.18 | 106.90 |
| 12 | bB | 936 | CLA | C1D-CHD-C4C | -3.23 | 119.08 | 126.06 |
| 15 | cB | 945 | BCR | C15-C14-C13 | -3.23 | 122.69 | 127.31 |
| 12 | aB | 908 | CLA | CAA-C2A-C3A | -3.23 | 103.92 | 112.78 |
| 12 | bA | 818 | CLA | C4-C3-C5 | 3.23 | 120.71 | 115.27 |
| 12 | bA | 821 | CLA | C4C-C3C-C2C | -3.23 | 102.19 | 106.90 |
| 12 | bB | 902 | CLA | CMB-C2B-C3B | 3.23 | 130.72 | 124.68 |
| 12 | bA | 831 | CLA | C3B-C4B-NB | 3.23 | 113.39 | 109.21 |
| 12 | bB | 901 | CLA | C3B-C4B-NB | 3.23 | 113.39 | 109.21 |
| 12 | aB | 904 | CLA | C4-C3-C5 | 3.23 | 120.71 | 115.27 |
| 12 | cA | 818 | CLA | C4-C3-C5 | 3.23 | 120.71 | 115.27 |
| 12 | bA | 818 | CLA | CAA-C2A-C3A | -3.23 | 103.93 | 112.78 |
| 12 | aA | 831 | CLA | C3B-C4B-NB | 3.23 | 113.39 | 109.21 |
| 12 | bA | 833 | CLA | C4A-NA-C1A | -3.23 | 105.25 | 106.71 |
| 12 | bB | 906 | CLA | C4A-NA-C1A | -3.23 | 105.25 | 106.71 |
| 12 | bB | 909 | CLA | C3B-C4B-NB | 3.23 | 113.39 | 109.21 |
| 12 | bB | 917 | CLA | C3B-C4B-NB | 3.23 | 113.39 | 109.21 |
| 12 | aL | 204 | CLA | C1D-CHD-C4C | -3.23 | 119.09 | 126.06 |
| 12 | aB | 922 | CLA | C4C-C3C-C2C | -3.23 | 102.19 | 106.90 |
| 12 | aA | 840 | CLA | O2A-CGA-CBA | 3.23 | 122.04 | 111.91 |
| 12 | bB | 930 | CLA | C4A-NA-C1A | -3.23 | 105.25 | 106.71 |
| 12 | cB | 909 | CLA | C3B-C4B-NB | 3.23 | 113.38 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 841 | CLA | C4C-C3C-C2C | -3.23 | 102.20 | 106.90 |
| 12 | cA | 840 | CLA | C3B-C4B-NB | 3.22 | 113.38 | 109.21 |
| 12 | aB | 910 | CLA | C1D-CHD-C4C | -3.22 | 119.10 | 126.06 |
| 15 | bF | 203 | BCR | C35-C13-C14 | -3.22 | 118.41 | 122.92 |
| 12 | bB | 904 | CLA | C4-C3-C5 | 3.22 | 120.69 | 115.27 |
| 12 | cA | 833 | CLA | C4A-NA-C1A | -3.22 | 105.26 | 106.71 |
| 12 | cA | 853 | CLA | C1C-C2C-C3C | -3.22 | 103.57 | 106.96 |
| 12 | cB | 910 | CLA | C1D-CHD-C4C | -3.22 | 119.11 | 126.06 |
| 12 | aA | 840 | CLA | C3B-C4B-NB | 3.22 | 113.37 | 109.21 |
| 15 | aF | 203 | BCR | C35-C13-C14 | -3.22 | 118.41 | 122.92 |
| 12 | cB | 932 | CLA | C3B-C4B-NB | 3.22 | 113.37 | 109.21 |
| 12 | aA | 806 | CLA | C3C-C4C-NC | 3.22 | 114.18 | 110.57 |
| 12 | aA | 854 | CLA | C1C-C2C-C3C | -3.22 | 103.58 | 106.96 |
| 12 | aB | 901 | CLA | C3B-C4B-NB | 3.22 | 113.37 | 109.21 |
| 12 | bB | 917 | CLA | C1D-CHD-C4C | -3.22 | 119.12 | 126.06 |
| 12 | aA | 831 | CLA | C4C-C3C-C2C | -3.22 | 102.21 | 106.90 |
| 12 | bA | 805 | CLA | O2D-CGD-O1D | -3.22 | 117.55 | 123.84 |
| 12 | bA | 853 | CLA | C1C-C2C-C3C | -3.21 | 103.58 | 106.96 |
| 12 | bB | 911 | CLA | CMC-C2C-C1C | 3.21 | 129.93 | 125.04 |
| 12 | aA | 819 | CLA | CMB-C2B-C3B | 3.21 | 130.69 | 124.68 |
| 12 | cA | 839 | CLA | C4C-C3C-C2C | -3.21 | 102.22 | 106.90 |
| 12 | aA | 830 | CLA | C1D-CHD-C4C | -3.21 | 119.13 | 126.06 |
| 12 | aB | 917 | CLA | C3B-C4B-NB | 3.21 | 113.36 | 109.21 |
| 12 | cL | 204 | CLA | C1D-CHD-C4C | -3.21 | 119.13 | 126.06 |
| 12 | cA | 831 | CLA | C3B-C4B-NB | 3.21 | 113.36 | 109.21 |
| 12 | aB | 917 | CLA | C1D-CHD-C4C | -3.21 | 119.13 | 126.06 |
| 12 | aB | 907 | CLA | C4C-C3C-C2C | -3.21 | 102.22 | 106.90 |
| 12 | bA | 835 | CLA | C4C-C3C-C2C | -3.21 | 102.22 | 106.90 |
| 12 | bB | 910 | CLA | C1D-CHD-C4C | -3.21 | 119.14 | 126.06 |
| 12 | cB | 909 | CLA | C4A-NA-C1A | -3.21 | 105.26 | 106.71 |
| 12 | cB | 924 | CLA | C4C-C3C-C2C | -3.21 | 102.22 | 106.90 |
| 13 | cB | 940 | 1L3 | C27-C26-C28 | 3.21 | 120.66 | 115.27 |
| 12 | aA | 834 | CLA | CAA-C2A-C3A | -3.20 | 104.00 | 112.78 |
| 12 | aA | 839 | CLA | C4C-C3C-C2C | -3.20 | 102.23 | 106.90 |
| 12 | bA | 839 | CLA | C4C-C3C-C2C | -3.20 | 102.23 | 106.90 |
| 15 | aB | 945 | BCR | C15-C14-C13 | -3.20 | 122.74 | 127.31 |
| 12 | bA | 806 | CLA | C3C-C4C-NC | 3.20 | 114.16 | 110.57 |
| 12 | aA | 822 | CLA | O2D-CGD-O1D | -3.20 | 117.58 | 123.84 |
| 12 | bA | 841 | CLA | C4-C3-C5 | 3.20 | 119.64 | 115.98 |
| 12 | aB | 911 | CLA | CMC-C2C-C1C | 3.20 | 129.92 | 125.04 |
| 12 | aB | 938 | CLA | C3B-C4B-NB | 3.20 | 113.35 | 109.21 |
| 12 | cA | 805 | CLA | O2D-CGD-O1D | -3.20 | 117.58 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 842 | CLA | C4A-NA-C1A | -3.20 | 105.27 | 106.71 |
| 12 | cB | 917 | CLA | C1D-CHD-C4C | -3.20 | 119.15 | 126.06 |
| 12 | cA | 819 | CLA | CMB-C2B-C3B | 3.20 | 130.67 | 124.68 |
| 12 | cB | 917 | CLA | C3B-C4B-NB | 3.20 | 113.35 | 109.21 |
| 12 | cA | 830 | CLA | C1D-CHD-C4C | -3.20 | 119.16 | 126.06 |
| 12 | aB | 924 | CLA | C4C-C3C-C2C | -3.20 | 102.23 | 106.90 |
| 12 | bB | 903 | CLA | C3B-C4B-NB | 3.20 | 113.34 | 109.21 |
| 13 | aB | 940 | 1L3 | C27-C26-C28 | 3.20 | 120.65 | 115.27 |
| 12 | aA | 843 | CLA | C1-C2-C3 | -3.20 | 120.51 | 126.04 |
| 13 | bB | 940 | 1L3 | C27-C26-C28 | 3.20 | 120.65 | 115.27 |
| 12 | aA | 806 | CLA | O2D-CGD-O1D | -3.20 | 117.59 | 123.84 |
| 12 | bB | 938 | CLA | C3B-C4B-NB | 3.20 | 113.34 | 109.21 |
| 12 | bA | 840 | CLA | C3B-C4B-NB | 3.19 | 113.34 | 109.21 |
| 12 | aA | 805 | CLA | O2D-CGD-O1D | -3.19 | 117.59 | 123.84 |
| 12 | aA | 815 | CLA | CHC-C1C-C2C | -3.19 | 117.89 | 126.72 |
| 12 | aA | 817 | CLA | CMB-C2B-C3B | 3.19 | 130.65 | 124.68 |
| 12 | bA | 803 | CLA | C3B-C4B-NB | 3.19 | 113.34 | 109.21 |
| 12 | aA | 835 | CLA | C4C-C3C-C2C | -3.19 | 102.24 | 106.90 |
| 12 | aA | 812 | CLA | O2D-CGD-O1D | -3.19 | 117.60 | 123.84 |
| 12 | cA | 817 | CLA | CMB-C2B-C3B | 3.19 | 130.65 | 124.68 |
| 12 | cA | 833 | CLA | C3B-C4B-NB | 3.19 | 113.34 | 109.21 |
| 12 | bA | 806 | CLA | O2D-CGD-O1D | -3.19 | 117.60 | 123.84 |
| 12 | aA | 829 | CLA | CAC-C3C-C4C | 3.19 | 128.95 | 124.81 |
| 12 | bB | 924 | CLA | C4C-C3C-C2C | -3.19 | 102.25 | 106.90 |
| 12 | bA | 819 | CLA | CMB-C2B-C3B | 3.19 | 130.65 | 124.68 |
| 12 | aB | 914 | CLA | O2D-CGD-O1D | -3.19 | 117.60 | 123.84 |
| 12 | bA | 829 | CLA | CAC-C3C-C4C | 3.19 | 128.95 | 124.81 |
| 12 | aB | 909 | CLA | C3B-C4B-NB | 3.19 | 113.33 | 109.21 |
| 12 | aB | 906 | CLA | C4A-NA-C1A | -3.19 | 105.27 | 106.71 |
| 12 | bB | 931 | CLA | CAA-C2A-C3A | -3.19 | 104.04 | 112.78 |
| 12 | cA | 843 | CLA | C1-C2-C3 | -3.19 | 120.53 | 126.04 |
| 12 | cA | 822 | CLA | O2D-CGD-O1D | -3.19 | 117.60 | 123.84 |
| 12 | cB | 914 | CLA | O2D-CGD-O1D | -3.19 | 117.60 | 123.84 |
| 12 | cA | 829 | CLA | CAC-C3C-C4C | 3.19 | 128.95 | 124.81 |
| 12 | bA | 810 | CLA | CMB-C2B-C3B | 3.19 | 130.64 | 124.68 |
| 12 | cB | 901 | CLA | CMA-C3A-C4A | -3.19 | 103.21 | 111.77 |
| 12 | bA | 834 | CLA | CAA-C2A-C3A | -3.19 | 104.05 | 112.78 |
| 12 | bA | 833 | CLA | C3B-C4B-NB | 3.19 | 113.33 | 109.21 |
| 15 | cF | 203 | BCR | C35-C13-C14 | -3.19 | 118.46 | 122.92 |
| 12 | cA | 820 | CLA | C1-O2A-CGA | 3.19 | 124.80 | 116.44 |
| 12 | bB | 901 | CLA | CMA-C3A-C4A | -3.19 | 103.21 | 111.77 |
| 12 | bB | 914 | CLA | O2D-CGD-O1D | -3.19 | 117.61 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 834 | CLA | CHC-C1C-C2C | -3.19 | 117.91 | 126.72 |
| 12 | aB | 931 | CLA | CAA-C2A-C3A | -3.19 | 104.06 | 112.78 |
| 12 | cA | 806 | CLA | O2D-CGD-O1D | -3.18 | 117.61 | 123.84 |
| 12 | bA | 843 | CLA | C1-C2-C3 | -3.18 | 120.54 | 126.04 |
| 12 | cA | 834 | CLA | CAA-C2A-C3A | -3.18 | 104.06 | 112.78 |
| 12 | bA | 822 | CLA | O2D-CGD-O1D | -3.18 | 117.62 | 123.84 |
| 12 | cB | 931 | CLA | CAA-C2A-C3A | -3.18 | 104.06 | 112.78 |
| 12 | cL | 203 | CLA | C4C-C3C-C2C | -3.18 | 102.26 | 106.90 |
| 12 | bB | 908 | CLA | CAC-C3C-C4C | 3.18 | 128.94 | 124.81 |
| 12 | bB | 933 | CLA | C4A-NA-C1A | -3.18 | 105.28 | 106.71 |
| 12 | aA | 834 | CLA | CHC-C1C-C2C | -3.18 | 117.92 | 126.72 |
| 12 | cA | 826 | CLA | C1D-CHD-C4C | -3.18 | 119.20 | 126.06 |
| 15 | aL | 205 | BCR | C27-C26-C25 | 3.18 | 127.34 | 122.73 |
| 12 | cB | 911 | CLA | CMC-C2C-C1C | 3.18 | 129.88 | 125.04 |
| 12 | aB | 901 | CLA | CMA-C3A-C4A | -3.18 | 103.23 | 111.77 |
| 12 | cA | 803 | CLA | C3B-C4B-NB | 3.18 | 113.32 | 109.21 |
| 12 | bA | 820 | CLA | C1-O2A-CGA | 3.18 | 124.78 | 116.44 |
| 12 | aA | 810 | CLA | CMB-C2B-C3B | 3.18 | 130.62 | 124.68 |
| 12 | bA | 815 | CLA | CHC-C1C-C2C | -3.18 | 117.94 | 126.72 |
| 12 | cB | 927 | CLA | C4A-NA-C1A | -3.18 | 105.28 | 106.71 |
| 12 | aA | 811 | CLA | CMA-C3A-C2A | -3.18 | 101.02 | 113.83 |
| 12 | bA | 811 | CLA | CMA-C3A-C2A | -3.18 | 101.02 | 113.83 |
| 12 | cB | 938 | CLA | C3B-C4B-NB | 3.18 | 113.31 | 109.21 |
| 12 | aA | 820 | CLA | C1-O2A-CGA | 3.17 | 124.77 | 116.44 |
| 12 | cA | 834 | CLA | CHC-C1C-C2C | -3.17 | 117.94 | 126.72 |
| 12 | aA | 824 | CLA | CHC-C1C-C2C | -3.17 | 117.94 | 126.72 |
| 12 | cA | 812 | CLA | O2D-CGD-O1D | -3.17 | 117.63 | 123.84 |
| 12 | cA | 811 | CLA | CMA-C3A-C2A | -3.17 | 101.02 | 113.83 |
| 12 | bA | 817 | CLA | CMB-C2B-C3B | 3.17 | 130.61 | 124.68 |
| 12 | cB | 903 | CLA | C3B-C4B-NB | 3.17 | 113.31 | 109.21 |
| 12 | bA | 830 | CLA | C1D-CHD-C4C | -3.17 | 119.22 | 126.06 |
| 12 | cA | 841 | CLA | C4-C3-C5 | 3.17 | 119.61 | 115.98 |
| 12 | cA | 806 | CLA | C3C-C4C-NC | 3.17 | 114.13 | 110.57 |
| 12 | cA | 810 | CLA | CMB-C2B-C3B | 3.17 | 130.61 | 124.68 |
| 12 | aA | 841 | CLA | C4-C3-C5 | 3.17 | 119.61 | 115.98 |
| 12 | aB | 927 | CLA | C4C-C3C-C2C | -3.17 | 102.28 | 106.90 |
| 12 | bB | 914 | CLA | C4C-C3C-C2C | -3.17 | 102.28 | 106.90 |
| 12 | aB | 927 | CLA | C4A-NA-C1A | -3.17 | 105.28 | 106.71 |
| 12 | cB | 933 | CLA | C4A-NA-C1A | -3.17 | 105.28 | 106.71 |
| 12 | bA | 812 | CLA | CAC-C3C-C4C | 3.17 | 128.92 | 124.81 |
| 12 | bL | 203 | CLA | C4C-C3C-C2C | -3.17 | 102.28 | 106.90 |
| 12 | cA | 824 | CLA | CHC-C1C-C2C | -3.16 | 117.97 | 126.72 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 812 | CLA | CAC-C3C-C4C | 3.16 | 128.92 | 124.81 |
| 12 | bB | 902 | CLA | C1D-CHD-C4C | -3.16 | 119.23 | 126.06 |
| 12 | bB | 931 | CLA | C1D-CHD-C4C | -3.16 | 119.23 | 126.06 |
| 12 | aB | 935 | CLA | C4C-C3C-C2C | -3.16 | 102.29 | 106.90 |
| 12 | aA | 826 | CLA | C1D-CHD-C4C | -3.16 | 119.23 | 126.06 |
| 12 | cA | 835 | CLA | C4C-C3C-C2C | -3.16 | 102.29 | 106.90 |
| 15 | bL | 205 | BCR | C27-C26-C25 | 3.16 | 127.32 | 122.73 |
| 12 | cL | 202 | CLA | C3B-C4B-NB | 3.16 | 113.30 | 109.21 |
| 12 | aB | 915 | CLA | CHD-C4C-NC | 3.16 | 129.18 | 124.20 |
| 12 | aB | 903 | CLA | C3B-C4B-NB | 3.16 | 113.30 | 109.21 |
| 12 | aA | 810 | CLA | C4C-C3C-C2C | -3.16 | 102.29 | 106.90 |
| 12 | bA | 826 | CLA | C1D-CHD-C4C | -3.16 | 119.25 | 126.06 |
| 12 | bL | 202 | CLA | C3B-C4B-NB | 3.16 | 113.29 | 109.21 |
| 12 | cA | 815 | CLA | CHC-C1C-C2C | -3.16 | 117.99 | 126.72 |
| 12 | cL | 203 | CLA | C1D-CHD-C4C | -3.16 | 119.25 | 126.06 |
| 12 | cB | 908 | CLA | CAC-C3C-C4C | 3.16 | 128.91 | 124.81 |
| 12 | aL | 203 | CLA | C4C-C3C-C2C | -3.16 | 102.30 | 106.90 |
| 12 | bL | 203 | CLA | C1D-CHD-C4C | -3.16 | 119.25 | 126.06 |
| 12 | aL | 202 | CLA | C3B-C4B-NB | 3.16 | 113.29 | 109.21 |
| 12 | bA | 824 | CLA | CHC-C1C-C2C | -3.15 | 118.00 | 126.72 |
| 12 | bB | 915 | CLA | CHD-C4C-NC | 3.15 | 129.17 | 124.20 |
| 12 | cB | 931 | CLA | C1D-CHD-C4C | -3.15 | 119.25 | 126.06 |
| 12 | aB | 902 | CLA | CAA-C2A-C3A | -3.15 | 104.14 | 112.78 |
| 12 | cB | 917 | CLA | CHC-C1C-C2C | -3.15 | 118.00 | 126.72 |
| 12 | cB | 915 | CLA | CHD-C4C-NC | 3.15 | 129.17 | 124.20 |
| 12 | aB | 933 | CLA | C4A-NA-C1A | -3.15 | 105.29 | 106.71 |
| 12 | bA | 806 | CLA | CAA-C2A-C3A | -3.15 | 104.15 | 112.78 |
| 12 | bA | 812 | CLA | O2D-CGD-O1D | -3.15 | 117.68 | 123.84 |
| 12 | cB | 902 | CLA | C1D-CHD-C4C | -3.15 | 119.26 | 126.06 |
| 12 | aA | 812 | CLA | CAC-C3C-C4C | 3.15 | 128.90 | 124.81 |
| 12 | bA | 810 | CLA | C4C-C3C-C2C | -3.15 | 102.31 | 106.90 |
| 12 | bA | 803 | CLA | CMA-C3A-C2A | -3.15 | 101.13 | 113.83 |
| 12 | cA | 803 | CLA | CMA-C3A-C2A | -3.15 | 101.13 | 113.83 |
| 12 | cA | 829 | CLA | O2A-CGA-CBA | 3.15 | 121.79 | 111.91 |
| 12 | cA | 842 | CLA | C4A-NA-C1A | -3.15 | 105.29 | 106.71 |
| 15 | cL | 205 | BCR | C27-C26-C25 | 3.15 | 127.30 | 122.73 |
| 12 | aL | 203 | CLA | C1D-CHD-C4C | -3.15 | 119.27 | 126.06 |
| 12 | cA | 806 | CLA | CHC-C1C-C2C | -3.15 | 118.02 | 126.72 |
| 12 | cA | 806 | CLA | CAA-C2A-C3A | -3.15 | 104.16 | 112.78 |
| 12 | bB | 902 | CLA | CAA-C2A-C3A | -3.15 | 104.16 | 112.78 |
| 12 | aB | 917 | CLA | CHC-C1C-C2C | -3.15 | 118.02 | 126.72 |
| 12 | aB | 908 | CLA | CAC-C3C-C4C | 3.15 | 128.89 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 931 | CLA | C1D-CHD-C4C | -3.15 | 119.27 | 126.06 |
| 12 | cA | 810 | CLA | C4C-C3C-C2C | -3.14 | 102.31 | 106.90 |
| 12 | aA | 823 | CLA | C3B-C4B-NB | 3.14 | 113.28 | 109.21 |
| 12 | bB | 927 | CLA | C4C-C3C-C2C | -3.14 | 102.32 | 106.90 |
| 12 | cB | 927 | CLA | C4C-C3C-C2C | -3.14 | 102.32 | 106.90 |
| 12 | bA | 842 | CLA | C3B-C4B-NB | 3.14 | 113.27 | 109.21 |
| 12 | aA | 803 | CLA | CMA-C3A-C2A | -3.14 | 101.16 | 113.83 |
| 12 | bA | 829 | CLA | O2A-CGA-CBA | 3.14 | 121.77 | 111.91 |
| 12 | bB | 916 | CLA | CHD-C4C-NC | 3.14 | 129.15 | 124.20 |
| 12 | cB | 902 | CLA | CAA-C2A-C3A | -3.14 | 104.18 | 112.78 |
| 12 | bB | 935 | CLA | C4C-C3C-C2C | -3.14 | 102.32 | 106.90 |
| 12 | aB | 902 | CLA | C1D-CHD-C4C | -3.14 | 119.29 | 126.06 |
| 12 | aB | 914 | CLA | C4C-C3C-C2C | -3.14 | 102.32 | 106.90 |
| 12 | aA | 829 | CLA | O2A-CGA-CBA | 3.14 | 121.75 | 111.91 |
| 12 | aA | 803 | CLA | C3B-C4B-NB | 3.14 | 113.27 | 109.21 |
| 12 | cB | 914 | CLA | C4C-C3C-C2C | -3.14 | 102.33 | 106.90 |
| 12 | aA | 806 | CLA | CAA-C2A-C3A | -3.14 | 104.19 | 112.78 |
| 12 | bB | 937 | CLA | O2A-CGA-CBA | 3.14 | 121.75 | 111.91 |
| 12 | aA | 806 | CLA | CHC-C1C-C2C | -3.14 | 118.05 | 126.72 |
| 12 | bB | 917 | CLA | CHC-C1C-C2C | -3.14 | 118.05 | 126.72 |
| 12 | aB | 920 | CLA | C4A-NA-C1A | -3.13 | 105.30 | 106.71 |
| 12 | cB | 912 | CLA | C1C-C2C-C3C | -3.13 | 103.66 | 106.96 |
| 12 | bB | 909 | CLA | C4A-NA-C1A | -3.13 | 105.30 | 106.71 |
| 12 | bB | 929 | CLA | C4A-NA-C1A | -3.13 | 105.30 | 106.71 |
| 11 | aA | 801 | CL0 | CAC-C3C-C4C | 3.13 | 128.87 | 124.81 |
| 12 | bA | 806 | CLA | CHC-C1C-C2C | -3.13 | 118.06 | 126.72 |
| 12 | aB | 916 | CLA | CHD-C4C-NC | 3.13 | 129.13 | 124.20 |
| 12 | cA | 803 | CLA | C4A-NA-C1A | -3.13 | 105.30 | 106.71 |
| 12 | aA | 807 | CLA | CAC-C3C-C4C | 3.13 | 128.87 | 124.81 |
| 12 | aA | 826 | CLA | C4A-NA-C1A | -3.13 | 105.30 | 106.71 |
| 12 | aB | 929 | CLA | C4A-NA-C1A | -3.13 | 105.30 | 106.71 |
| 13 | bB | 940 | 1L3 | C22-C21-C23 | 3.13 | 120.53 | 115.27 |
| 12 | cA | 832 | CLA | CMB-C2B-C3B | 3.13 | 130.53 | 124.68 |
| 12 | cA | 823 | CLA | C3B-C4B-NB | 3.12 | 113.25 | 109.21 |
| 12 | aA | 842 | CLA | C4C-C3C-C2C | -3.12 | 102.34 | 106.90 |
| 12 | cB | 935 | CLA | C4C-C3C-C2C | -3.12 | 102.34 | 106.90 |
| 12 | bA | 818 | CLA | C4A-NA-C1A | -3.12 | 105.30 | 106.71 |
| 12 | aB | 937 | CLA | O2A-CGA-CBA | 3.12 | 121.71 | 111.91 |
| 12 | cL | 202 | CLA | C1D-CHD-C4C | -3.12 | 119.33 | 126.06 |
| 12 | cB | 923 | CLA | C4C-C3C-C2C | -3.12 | 102.35 | 106.90 |
| 12 | aB | 920 | CLA | CMC-C2C-C1C | 3.12 | 129.79 | 125.04 |
| 12 | cB | 902 | CLA | C3B-C4B-NB | 3.12 | 113.24 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 916 | CLA | CHD-C4C-NC | 3.12 | 129.12 | 124.20 |
| 12 | bB | 912 | CLA | C1C-C2C-C3C | -3.12 | 103.68 | 106.96 |
| 12 | cB | 920 | CLA | C4A-NA-C1A | -3.12 | 105.31 | 106.71 |
| 12 | bL | 202 | CLA | C1D-CHD-C4C | -3.12 | 119.34 | 126.06 |
| 12 | bA | 823 | CLA | C3B-C4B-NB | 3.11 | 113.24 | 109.21 |
| 12 | aB | 932 | CLA | C1C-C2C-C3C | -3.11 | 103.68 | 106.96 |
| 11 | bA | 801 | CL0 | CAC-C3C-C4C | 3.11 | 128.85 | 124.81 |
| 12 | bB | 920 | CLA | CMC-C2C-C1C | 3.11 | 129.78 | 125.04 |
| 12 | bB | 923 | CLA | C4C-C3C-C2C | -3.11 | 102.36 | 106.90 |
| 12 | bA | 804 | CLA | CAA-C2A-C3A | -3.11 | 104.26 | 112.78 |
| 12 | cA | 826 | CLA | O2D-CGD-O1D | -3.11 | 117.75 | 123.84 |
| 12 | aA | 842 | CLA | C3B-C4B-NB | 3.11 | 113.23 | 109.21 |
| 12 | aL | 202 | CLA | C1D-CHD-C4C | -3.11 | 119.35 | 126.06 |
| 12 | cA | 842 | CLA | C4C-C3C-C2C | -3.11 | 102.36 | 106.90 |
| 12 | bB | 902 | CLA | C3B-C4B-NB | 3.11 | 113.23 | 109.21 |
| 12 | cB | 920 | CLA | CMC-C2C-C1C | 3.11 | 129.78 | 125.04 |
| 12 | cA | 842 | CLA | C3B-C4B-NB | 3.11 | 113.23 | 109.21 |
| 12 | bB | 904 | CLA | CHB-C4A-NA | 3.11 | 128.81 | 124.51 |
| 12 | cA | 812 | CLA | C3B-C4B-NB | 3.11 | 113.23 | 109.21 |
| 12 | cB | 903 | CLA | CBC-CAC-C3C | -3.11 | 103.86 | 112.43 |
| 12 | aA | 804 | CLA | CAA-C2A-C3A | -3.11 | 104.27 | 112.78 |
| 12 | aB | 927 | CLA | O2D-CGD-CBD | 3.11 | 116.79 | 111.27 |
| 12 | bB | 927 | CLA | O2D-CGD-CBD | 3.11 | 116.79 | 111.27 |
| 12 | bB | 920 | CLA | C4A-NA-C1A | -3.11 | 105.31 | 106.71 |
| 13 | aB | 940 | 1L3 | C22-C21-C23 | 3.11 | 120.50 | 115.27 |
| 12 | cB | 937 | CLA | C1D-CHD-C4C | -3.11 | 119.36 | 126.06 |
| 12 | bA | 842 | CLA | C4C-C3C-C2C | -3.11 | 102.37 | 106.90 |
| 12 | aB | 926 | CLA | C4A-NA-C1A | -3.11 | 105.31 | 106.71 |
| 12 | bA | 827 | CLA | C1C-C2C-C3C | -3.10 | 103.69 | 106.96 |
| 12 | cB | 929 | CLA | C4C-C3C-C2C | -3.10 | 102.37 | 106.90 |
| 12 | aA | 812 | CLA | C3B-C4B-NB | 3.10 | 113.22 | 109.21 |
| 12 | bB | 937 | CLA | C1D-CHD-C4C | -3.10 | 119.36 | 126.06 |
| 15 | aB | 941 | BCR | C15-C14-C13 | -3.10 | 122.88 | 127.31 |
| 12 | aB | 902 | CLA | C3B-C4B-NB | 3.10 | 113.22 | 109.21 |
| 12 | aB | 904 | CLA | CMC-C2C-C1C | 3.10 | 129.77 | 125.04 |
| 12 | cB | 913 | CLA | C4A-NA-C1A | -3.10 | 105.31 | 106.71 |
| 12 | cB | 937 | CLA | O2A-CGA-CBA | 3.10 | 121.64 | 111.91 |
| 12 | cA | 832 | CLA | C3B-C4B-NB | 3.10 | 113.22 | 109.21 |
| 12 | bB | 928 | CLA | CHC-C1C-C2C | -3.10 | 118.14 | 126.72 |
| 12 | aB | 928 | CLA | CHC-C1C-C2C | -3.10 | 118.14 | 126.72 |
| 13 | cB | 940 | 1L3 | C22-C21-C23 | 3.10 | 120.49 | 115.27 |
| 12 | cB | 931 | CLA | O2D-CGD-O1D | -3.10 | 117.78 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 832 | CLA | CMB-C2B-C3B | 3.10 | 130.48 | 124.68 |
| 12 | aA | 835 | CLA | CAC-C3C-C4C | 3.10 | 128.83 | 124.81 |
| 12 | bA | 807 | CLA | CAC-C3C-C4C | 3.10 | 128.83 | 124.81 |
| 12 | aL | 202 | CLA | CMB-C2B-C3B | 3.10 | 130.48 | 124.68 |
| 12 | aA | 844 | CLA | CHC-C1C-C2C | -3.10 | 118.15 | 126.72 |
| 12 | bL | 202 | CLA | CMB-C2B-C3B | 3.10 | 130.47 | 124.68 |
| 12 | bA | 826 | CLA | O2D-CGD-O1D | -3.10 | 117.78 | 123.84 |
| 12 | cB | 927 | CLA | O2D-CGD-CBD | 3.10 | 116.77 | 111.27 |
| 12 | bA | 853 | CLA | O2A-CGA-CBA | 3.10 | 121.63 | 111.91 |
| 12 | aB | 935 | CLA | C1-C2-C3 | -3.10 | 121.74 | 126.75 |
| 12 | aB | 924 | CLA | CAC-C3C-C4C | 3.10 | 128.83 | 124.81 |
| 12 | cA | 804 | CLA | CAA-C2A-C3A | -3.10 | 104.30 | 112.78 |
| 15 | cB | 941 | BCR | C15-C14-C13 | -3.10 | 122.89 | 127.31 |
| 12 | bA | 842 | CLA | C4A-NA-C1A | -3.10 | 105.31 | 106.71 |
| 12 | cB | 928 | CLA | CHC-C1C-C2C | -3.10 | 118.16 | 126.72 |
| 12 | aA | 841 | CLA | C1-C2-C3 | -3.10 | 120.69 | 126.04 |
| 12 | aA | 832 | CLA | CMB-C2B-C3B | 3.09 | 130.47 | 124.68 |
| 12 | aA | 829 | CLA | C4C-C3C-C2C | -3.09 | 102.39 | 106.90 |
| 12 | cB | 924 | CLA | CAC-C3C-C4C | 3.09 | 128.82 | 124.81 |
| 12 | aB | 903 | CLA | CBC-CAC-C3C | -3.09 | 103.90 | 112.43 |
| 12 | aB | 912 | CLA | C1C-C2C-C3C | -3.09 | 103.70 | 106.96 |
| 12 | bB | 949 | CLA | CHD-C4C-NC | 3.09 | 129.08 | 124.20 |
| 12 | bA | 841 | CLA | C1-C2-C3 | -3.09 | 120.69 | 126.04 |
| 12 | cA | 818 | CLA | C4A-NA-C1A | -3.09 | 105.32 | 106.71 |
| 12 | aB | 923 | CLA | C4C-C3C-C2C | -3.09 | 102.39 | 106.90 |
| 12 | cA | 803 | CLA | CHB-C4A-NA | 3.09 | 128.79 | 124.51 |
| 12 | cA | 807 | CLA | CAC-C3C-C4C | 3.09 | 128.82 | 124.81 |
| 12 | bB | 903 | CLA | CBC-CAC-C3C | -3.09 | 103.91 | 112.43 |
| 12 | bA | 835 | CLA | C3B-C4B-NB | 3.09 | 113.20 | 109.21 |
| 12 | aA | 826 | CLA | O2D-CGD-O1D | -3.09 | 117.80 | 123.84 |
| 12 | cB | 926 | CLA | C4A-NA-C1A | -3.09 | 105.32 | 106.71 |
| 12 | bB | 950 | CLA | CHC-C1C-C2C | -3.09 | 118.18 | 126.72 |
| 12 | bB | 924 | CLA | CAC-C3C-C4C | 3.09 | 128.82 | 124.81 |
| 12 | bA | 843 | CLA | CHC-C1C-C2C | -3.09 | 118.18 | 126.72 |
| 12 | aB | 937 | CLA | C1D-CHD-C4C | -3.09 | 119.40 | 126.06 |
| 12 | aB | 949 | CLA | CHD-C4C-NC | 3.09 | 129.07 | 124.20 |
| 12 | bA | 829 | CLA | C4C-C3C-C2C | -3.09 | 102.40 | 106.90 |
| 12 | cA | 835 | CLA | C3B-C4B-NB | 3.09 | 113.20 | 109.21 |
| 12 | bA | 835 | CLA | CAC-C3C-C4C | 3.09 | 128.81 | 124.81 |
| 12 | aA | 803 | CLA | CHB-C4A-NA | 3.08 | 128.78 | 124.51 |
| 12 | cA | 809 | CLA | C4C-C3C-C2C | -3.08 | 102.40 | 106.90 |
| 12 | cA | 853 | CLA | O2A-CGA-CBA | 3.08 | 121.58 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 827 | CLA | C3B-C4B-NB | 3.08 | 113.20 | 109.21 |
| 12 | aA | 854 | CLA | O2A-CGA-CBA | 3.08 | 121.58 | 111.91 |
| 12 | cB | 903 | CLA | C4C-C3C-C2C | -3.08 | 102.40 | 106.90 |
| 12 | cB | 906 | CLA | C4A-NA-C1A | -3.08 | 105.32 | 106.71 |
| 12 | cB | 933 | CLA | CHC-C1C-C2C | -3.08 | 118.19 | 126.72 |
| 12 | cB | 918 | CLA | C3B-C4B-NB | 3.08 | 113.19 | 109.21 |
| 12 | aB | 950 | CLA | CHC-C1C-C2C | -3.08 | 118.20 | 126.72 |
| 12 | cB | 929 | CLA | C4A-NA-C1A | -3.08 | 105.32 | 106.71 |
| 12 | cB | 935 | CLA | C1-C2-C3 | -3.08 | 121.77 | 126.75 |
| 12 | aA | 809 | CLA | C4C-C3C-C2C | -3.08 | 102.41 | 106.90 |
| 12 | bB | 929 | CLA | C4C-C3C-C2C | -3.08 | 102.41 | 106.90 |
| 12 | aB | 904 | CLA | CHB-C4A-NA | 3.08 | 128.77 | 124.51 |
| 12 | aB | 936 | CLA | CAA-C2A-C3A | -3.08 | 104.34 | 112.78 |
| 12 | bB | 933 | CLA | CHC-C1C-C2C | -3.08 | 118.20 | 126.72 |
| 12 | cL | 202 | CLA | CMB-C2B-C3B | 3.08 | 130.44 | 124.68 |
| 12 | cA | 830 | CLA | CHC-C1C-C2C | -3.08 | 118.21 | 126.72 |
| 12 | cB | 918 | CLA | CHC-C1C-C2C | -3.08 | 118.21 | 126.72 |
| 12 | aA | 843 | CLA | CHC-C1C-C2C | -3.08 | 118.21 | 126.72 |
| 12 | aA | 803 | CLA | C4A-NA-C1A | -3.08 | 105.32 | 106.71 |
| 11 | cA | 801 | CL0 | CAC-C3C-C4C | 3.08 | 128.80 | 124.81 |
| 15 | cA | 847 | BCR | C15-C14-C13 | -3.08 | 122.92 | 127.31 |
| 12 | cB | 904 | CLA | CHB-C4A-NA | 3.07 | 128.76 | 124.51 |
| 15 | bA | 847 | BCR | C15-C14-C13 | -3.07 | 122.92 | 127.31 |
| 12 | bB | 913 | CLA | O2D-CGD-O1D | -3.07 | 117.83 | 123.84 |
| 12 | bB | 931 | CLA | O2D-CGD-O1D | -3.07 | 117.83 | 123.84 |
| 12 | bA | 806 | CLA | C1D-CHD-C4C | -3.07 | 119.43 | 126.06 |
| 12 | aB | 903 | CLA | C4C-C3C-C2C | -3.07 | 102.42 | 106.90 |
| 12 | bA | 812 | CLA | C3B-C4B-NB | 3.07 | 113.18 | 109.21 |
| 12 | aA | 827 | CLA | C1C-C2C-C3C | -3.07 | 103.72 | 106.96 |
| 12 | cA | 807 | CLA | C1C-C2C-C3C | -3.07 | 103.72 | 106.96 |
| 12 | bA | 803 | CLA | CHB-C4A-NA | 3.07 | 128.76 | 124.51 |
| 12 | cA | 806 | CLA | C1D-CHD-C4C | -3.07 | 119.43 | 126.06 |
| 12 | bA | 830 | CLA | CHC-C1C-C2C | -3.07 | 118.22 | 126.72 |
| 12 | cB | 949 | CLA | CHD-C4C-NC | 3.07 | 129.04 | 124.20 |
| 12 | bB | 903 | CLA | C4C-C3C-C2C | -3.07 | 102.42 | 106.90 |
| 12 | cA | 823 | CLA | C4C-C3C-C2C | -3.07 | 102.42 | 106.90 |
| 13 | cA | 844 | 1L3 | C17-C16-C18 | 3.07 | 120.44 | 115.27 |
| 12 | bB | 935 | CLA | CHD-C4C-NC | 3.07 | 129.04 | 124.20 |
| 12 | bB | 932 | CLA | C1C-C2C-C3C | -3.07 | 103.73 | 106.96 |
| 12 | bB | 922 | CLA | CBC-CAC-C3C | -3.07 | 103.97 | 112.43 |
| 13 | aA | 845 | 1L3 | C17-C16-C18 | 3.07 | 120.44 | 115.27 |
| 12 | cB | 936 | CLA | CAA-C2A-C3A | -3.07 | 104.37 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 829 | CLA | C4C-C3C-C2C | -3.07 | 102.42 | 106.90 |
| 12 | bA | 831 | CLA | O2A-CGA-CBA | 3.07 | 121.54 | 111.91 |
| 12 | aB | 909 | CLA | C4A-NA-C1A | -3.07 | 105.33 | 106.71 |
| 12 | aB | 913 | CLA | O2D-CGD-O1D | -3.07 | 117.84 | 123.84 |
| 13 | bA | 844 | 1L3 | C17-C16-C18 | 3.07 | 120.43 | 115.27 |
| 12 | bB | 935 | CLA | C1-C2-C3 | -3.07 | 121.79 | 126.75 |
| 12 | aB | 922 | CLA | CBC-CAC-C3C | -3.07 | 103.97 | 112.43 |
| 12 | cA | 831 | CLA | O2A-CGA-CBA | 3.07 | 121.53 | 111.91 |
| 12 | bB | 913 | CLA | C4A-NA-C1A | -3.07 | 105.33 | 106.71 |
| 12 | bA | 814 | CLA | C1C-C2C-C3C | -3.07 | 103.73 | 106.96 |
| 12 | cB | 932 | CLA | C1C-C2C-C3C | -3.07 | 103.73 | 106.96 |
| 12 | cB | 913 | CLA | O2D-CGD-O1D | -3.07 | 117.84 | 123.84 |
| 12 | aB | 918 | CLA | CHC-C1C-C2C | -3.07 | 118.24 | 126.72 |
| 12 | cA | 843 | CLA | CHC-C1C-C2C | -3.07 | 118.24 | 126.72 |
| 12 | bA | 803 | CLA | C4C-C3C-C2C | -3.07 | 102.43 | 106.90 |
| 12 | cB | 922 | CLA | CBC-CAC-C3C | -3.07 | 103.98 | 112.43 |
| 12 | aA | 835 | CLA | C3B-C4B-NB | 3.07 | 113.17 | 109.21 |
| 12 | aB | 931 | CLA | O2D-CGD-O1D | -3.07 | 117.84 | 123.84 |
| 12 | cB | 903 | CLA | O2D-CGD-O1D | -3.07 | 117.84 | 123.84 |
| 12 | cA | 807 | CLA | CED-O2D-CGD | 3.07 | 122.87 | 115.94 |
| 12 | aA | 831 | CLA | O2A-CGA-CBA | 3.07 | 121.53 | 111.91 |
| 12 | bB | 918 | CLA | CHC-C1C-C2C | -3.07 | 118.24 | 126.72 |
| 12 | aB | 918 | CLA | C3B-C4B-NB | 3.06 | 113.17 | 109.21 |
| 12 | bB | 910 | CLA | CMA-C3A-C2A | -3.06 | 101.47 | 113.83 |
| 12 | aA | 803 | CLA | C4C-C3C-C2C | -3.06 | 102.43 | 106.90 |
| 12 | cB | 910 | CLA | CMA-C3A-C2A | -3.06 | 101.48 | 113.83 |
| 12 | cA | 827 | CLA | C1C-C2C-C3C | -3.06 | 103.74 | 106.96 |
| 12 | aB | 910 | CLA | CMA-C3A-C2A | -3.06 | 101.48 | 113.83 |
| 12 | bA | 827 | CLA | C3B-C4B-NB | 3.06 | 113.17 | 109.21 |
| 12 | cB | 904 | CLA | CMC-C2C-C1C | 3.06 | 129.70 | 125.04 |
| 12 | bB | 936 | CLA | CAA-C2A-C3A | -3.06 | 104.40 | 112.78 |
| 12 | aA | 818 | CLA | CAC-C3C-C4C | 3.06 | 128.78 | 124.81 |
| 12 | aB | 933 | CLA | CHC-C1C-C2C | -3.06 | 118.26 | 126.72 |
| 12 | bA | 809 | CLA | C4C-C3C-C2C | -3.06 | 102.44 | 106.90 |
| 12 | bB | 904 | CLA | CMC-C2C-C1C | 3.06 | 129.70 | 125.04 |
| 12 | bB | 903 | CLA | O2D-CGD-O1D | -3.06 | 117.86 | 123.84 |
| 12 | bA | 826 | CLA | C4A-NA-C1A | -3.06 | 105.33 | 106.71 |
| 12 | aA | 823 | CLA | C4C-C3C-C2C | -3.06 | 102.44 | 106.90 |
| 12 | cA | 841 | CLA | C1-C2-C3 | -3.06 | 120.75 | 126.04 |
| 12 | cB | 902 | CLA | CHC-C1C-C2C | -3.06 | 118.26 | 126.72 |
| 12 | aA | 830 | CLA | CMA-C3A-C2A | -3.06 | 101.50 | 113.83 |
| 12 | bA | 832 | CLA | C3B-C4B-NB | 3.06 | 113.16 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 830 | CLA | CMA-C3A-C2A | -3.06 | 101.50 | 113.83 |
| 15 | aF | 203 | BCR | C16-C15-C14 | -3.06 | 117.21 | 123.47 |
| 12 | cA | 802 | CLA | C4C-C3C-C2C | -3.06 | 102.44 | 106.90 |
| 12 | aA | 830 | CLA | CHC-C1C-C2C | -3.06 | 118.27 | 126.72 |
| 12 | cA | 818 | CLA | CAC-C3C-C4C | 3.06 | 128.77 | 124.81 |
| 12 | bA | 834 | CLA | CAC-C3C-C4C | 3.05 | 128.77 | 124.81 |
| 15 | aA | 848 | BCR | C15-C14-C13 | -3.05 | 122.95 | 127.31 |
| 11 | aA | 801 | CL0 | CBC-CAC-C3C | -3.05 | 104.01 | 112.43 |
| 12 | cA | 802 | CLA | CAC-C3C-C4C | 3.05 | 128.77 | 124.81 |
| 12 | cB | 935 | CLA | CHD-C4C-NC | 3.05 | 129.01 | 124.20 |
| 12 | aA | 832 | CLA | C3B-C4B-NB | 3.05 | 113.16 | 109.21 |
| 12 | bA | 802 | CLA | C4C-C3C-C2C | -3.05 | 102.45 | 106.90 |
| 12 | aA | 806 | CLA | C1D-CHD-C4C | -3.05 | 119.47 | 126.06 |
| 12 | aA | 805 | CLA | C4C-C3C-C2C | -3.05 | 102.45 | 106.90 |
| 12 | aB | 929 | CLA | C4C-C3C-C2C | -3.05 | 102.45 | 106.90 |
| 12 | aB | 928 | CLA | CMA-C3A-C2A | -3.05 | 101.52 | 113.83 |
| 12 | aB | 935 | CLA | CHD-C4C-NC | 3.05 | 129.01 | 124.20 |
| 12 | cA | 843 | CLA | CMA-C3A-C2A | -3.05 | 101.52 | 113.83 |
| 12 | bA | 830 | CLA | CMA-C3A-C2A | -3.05 | 101.53 | 113.83 |
| 12 | bA | 843 | CLA | CMA-C3A-C2A | -3.05 | 101.53 | 113.83 |
| 12 | cA | 832 | CLA | O2A-CGA-CBA | 3.05 | 121.48 | 111.91 |
| 12 | bA | 807 | CLA | CED-O2D-CGD | 3.05 | 122.83 | 115.94 |
| 11 | cA | 801 | CL0 | CHD-C1D-ND | -3.05 | 121.65 | 124.45 |
| 12 | cA | 817 | CLA | C4C-C3C-C2C | -3.05 | 102.45 | 106.90 |
| 12 | aA | 838 | CLA | CAA-C2A-C3A | -3.05 | 104.43 | 112.78 |
| 12 | bB | 928 | CLA | CMA-C3A-C2A | -3.05 | 101.53 | 113.83 |
| 12 | bB | 918 | CLA | C3B-C4B-NB | 3.05 | 113.15 | 109.21 |
| 12 | bB | 914 | CLA | CMC-C2C-C1C | 3.05 | 129.68 | 125.04 |
| 12 | aB | 902 | CLA | CHC-C1C-C2C | -3.05 | 118.29 | 126.72 |
| 12 | aA | 827 | CLA | C3B-C4B-NB | 3.05 | 113.15 | 109.21 |
| 12 | aA | 843 | CLA | CMA-C3A-C2A | -3.05 | 101.53 | 113.83 |
| 12 | aA | 802 | CLA | C4C-C3C-C2C | -3.05 | 102.46 | 106.90 |
| 12 | bA | 832 | CLA | O2A-CGA-CBA | 3.05 | 121.47 | 111.91 |
| 12 | aL | 202 | CLA | O2A-CGA-CBA | 3.05 | 121.47 | 111.91 |
| 12 | bA | 802 | CLA | CAC-C3C-C4C | 3.05 | 128.76 | 124.81 |
| 12 | cB | 928 | CLA | CMA-C3A-C2A | -3.05 | 101.54 | 113.83 |
| 12 | bA | 853 | CLA | CAC-C3C-C4C | 3.05 | 128.76 | 124.81 |
| 12 | bA | 823 | CLA | C4C-C3C-C2C | -3.05 | 102.46 | 106.90 |
| 12 | bB | 938 | CLA | C4C-C3C-C2C | -3.05 | 102.46 | 106.90 |
| 12 | aB | 903 | CLA | O2D-CGD-O1D | -3.05 | 117.88 | 123.84 |
| 11 | aA | 801 | CL0 | CHD-C1D-ND | -3.05 | 121.66 | 124.45 |
| 12 | aA | 832 | CLA | O2A-CGA-CBA | 3.05 | 121.47 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | aA | 850 | BCR | C24-C23-C22 | -3.04 | 121.63 | 126.23 |
| 15 | bF | 203 | BCR | C16-C15-C14 | -3.04 | 117.24 | 123.47 |
| 12 | cA | 838 | CLA | CAA-C2A-C3A | -3.04 | 104.44 | 112.78 |
| 15 | bB | 941 | BCR | C15-C14-C13 | -3.04 | 122.97 | 127.31 |
| 12 | aB | 905 | CLA | C3B-C4B-NB | 3.04 | 113.14 | 109.21 |
| 12 | cB | 905 | CLA | C3B-C4B-NB | 3.04 | 113.14 | 109.21 |
| 12 | aA | 841 | CLA | O2A-CGA-CBA | 3.04 | 121.45 | 111.91 |
| 12 | cA | 834 | CLA | CAC-C3C-C4C | 3.04 | 128.76 | 124.81 |
| 12 | bB | 902 | CLA | CHC-C1C-C2C | -3.04 | 118.31 | 126.72 |
| 12 | bA | 830 | CLA | C1-C2-C3 | -3.04 | 120.78 | 126.04 |
| 12 | cA | 836 | CLA | C3C-C4C-NC | 3.04 | 113.98 | 110.57 |
| 12 | bB | 903 | CLA | CAC-C3C-C4C | 3.04 | 128.75 | 124.81 |
| 12 | aA | 807 | CLA | CED-O2D-CGD | 3.04 | 122.81 | 115.94 |
| 12 | bB | 916 | CLA | CAA-C2A-C1A | -3.04 | 102.01 | 111.97 |
| 12 | bA | 819 | CLA | C2A-C3A-C4A | -3.04 | 96.96 | 101.87 |
| 12 | bA | 841 | CLA | O2A-CGA-CBA | 3.04 | 121.44 | 111.91 |
| 12 | cA | 803 | CLA | C4C-C3C-C2C | -3.04 | 102.47 | 106.90 |
| 12 | cA | 841 | CLA | O2A-CGA-CBA | 3.04 | 121.44 | 111.91 |
| 15 | cA | 849 | BCR | C24-C23-C22 | -3.04 | 121.64 | 126.23 |
| 11 | cA | 801 | CL0 | CBC-CAC-C3C | -3.04 | 104.06 | 112.43 |
| 12 | aA | 802 | CLA | CAC-C3C-C4C | 3.04 | 128.75 | 124.81 |
| 12 | aB | 916 | CLA | CAA-C2A-C1A | -3.04 | 102.02 | 111.97 |
| 12 | bL | 202 | CLA | O2A-CGA-CBA | 3.04 | 121.44 | 111.91 |
| 11 | bA | 801 | CL0 | CBC-CAC-C3C | -3.04 | 104.06 | 112.43 |
| 12 | aA | 817 | CLA | C4C-C3C-C2C | -3.04 | 102.47 | 106.90 |
| 12 | bB | 926 | CLA | CAC-C3C-C4C | 3.04 | 128.75 | 124.81 |
| 12 | aA | 826 | CLA | CMC-C2C-C1C | 3.03 | 129.66 | 125.04 |
| 15 | bA | 849 | BCR | C24-C23-C22 | -3.03 | 121.65 | 126.23 |
| 12 | cB | 916 | CLA | CAA-C2A-C1A | -3.03 | 102.03 | 111.97 |
| 12 | bA | 838 | CLA | CAA-C2A-C3A | -3.03 | 104.47 | 112.78 |
| 12 | cL | 202 | CLA | O2A-CGA-CBA | 3.03 | 121.42 | 111.91 |
| 15 | cF | 203 | BCR | C16-C15-C14 | -3.03 | 117.26 | 123.47 |
| 12 | bA | 818 | CLA | CAC-C3C-C4C | 3.03 | 128.74 | 124.81 |
| 12 | bB | 939 | CLA | CHD-C4C-NC | 3.03 | 128.98 | 124.20 |
| 12 | bA | 833 | CLA | CMA-C3A-C4A | -3.03 | 103.63 | 111.77 |
| 12 | cB | 926 | CLA | C1C-C2C-C3C | -3.03 | 103.77 | 106.96 |
| 12 | bA | 835 | CLA | CMC-C2C-C1C | 3.03 | 129.65 | 125.04 |
| 12 | aA | 808 | CLA | CHC-C1C-C2C | -3.03 | 118.34 | 126.72 |
| 12 | cA | 826 | CLA | C4A-NA-C1A | -3.03 | 105.34 | 106.71 |
| 15 | bI | 101 | BCR | C2-C1-C6 | 3.03 | 115.14 | 110.48 |
| 12 | aB | 933 | CLA | C3B-C4B-NB | 3.03 | 113.13 | 109.21 |
| 12 | cB | 933 | CLA | C3B-C4B-NB | 3.03 | 113.13 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 822 | CLA | CHD-C4C-NC | 3.03 | 128.98 | 124.20 |
| 12 | cA | 835 | CLA | CAC-C3C-C4C | 3.03 | 128.74 | 124.81 |
| 12 | cA | 814 | CLA | C1C-C2C-C3C | -3.03 | 103.77 | 106.96 |
| 12 | bB | 906 | CLA | CMC-C2C-C1C | 3.03 | 129.65 | 125.04 |
| 12 | bB | 920 | CLA | CHD-C4C-NC | 3.03 | 128.97 | 124.20 |
| 12 | cA | 833 | CLA | CMA-C3A-C4A | -3.03 | 103.64 | 111.77 |
| 12 | cB | 914 | CLA | CMC-C2C-C1C | 3.03 | 129.65 | 125.04 |
| 12 | cA | 830 | CLA | C1-C2-C3 | -3.03 | 120.81 | 126.04 |
| 12 | cA | 822 | CLA | CHD-C4C-NC | 3.03 | 128.97 | 124.20 |
| 12 | cB | 906 | CLA | C4C-C3C-C2C | -3.03 | 102.49 | 106.90 |
| 12 | bA | 833 | CLA | CHC-C1C-C2C | -3.02 | 118.35 | 126.72 |
| 12 | aA | 833 | CLA | CMA-C3A-C4A | -3.02 | 103.64 | 111.77 |
| 12 | aA | 834 | CLA | CAC-C3C-C4C | 3.02 | 128.73 | 124.81 |
| 12 | aA | 807 | CLA | C1C-C2C-C3C | -3.02 | 103.78 | 106.96 |
| 12 | bB | 926 | CLA | CAA-C2A-C3A | -3.02 | 104.50 | 112.78 |
| 12 | aB | 920 | CLA | CHD-C4C-NC | 3.02 | 128.97 | 124.20 |
| 12 | bA | 836 | CLA | C3C-C4C-NC | 3.02 | 113.96 | 110.57 |
| 12 | cB | 906 | CLA | C3B-C4B-NB | 3.02 | 113.12 | 109.21 |
| 12 | cA | 835 | CLA | CMC-C2C-C1C | 3.02 | 129.64 | 125.04 |
| 12 | aB | 939 | CLA | CHD-C4C-NC | 3.02 | 128.96 | 124.20 |
| 12 | aA | 814 | CLA | C1C-C2C-C3C | -3.02 | 103.78 | 106.96 |
| 12 | bA | 808 | CLA | CHC-C1C-C2C | -3.02 | 118.37 | 126.72 |
| 12 | bB | 930 | CLA | C4C-C3C-C2C | -3.02 | 102.50 | 106.90 |
| 15 | cI | 101 | BCR | C2-C1-C6 | 3.02 | 115.13 | 110.48 |
| 12 | cA | 833 | CLA | CHC-C1C-C2C | -3.02 | 118.37 | 126.72 |
| 12 | cB | 903 | CLA | CAC-C3C-C4C | 3.02 | 128.73 | 124.81 |
| 12 | aB | 934 | CLA | CHC-C1C-C2C | -3.02 | 118.37 | 126.72 |
| 12 | bA | 814 | CLA | CHC-C1C-C2C | -3.02 | 118.37 | 126.72 |
| 12 | aB | 914 | CLA | CMC-C2C-C1C | 3.02 | 129.64 | 125.04 |
| 12 | aB | 903 | CLA | CAC-C3C-C4C | 3.02 | 128.73 | 124.81 |
| 12 | aA | 812 | CLA | CHC-C1C-C2C | -3.02 | 118.38 | 126.72 |
| 12 | cA | 826 | CLA | CMC-C2C-C1C | 3.02 | 129.63 | 125.04 |
| 12 | aB | 938 | CLA | C4C-C3C-C2C | -3.02 | 102.50 | 106.90 |
| 12 | cB | 939 | CLA | CHD-C4C-NC | 3.02 | 128.96 | 124.20 |
| 12 | bB | 934 | CLA | C3B-C4B-NB | 3.02 | 113.11 | 109.21 |
| 12 | aA | 833 | CLA | CHC-C1C-C2C | -3.02 | 118.38 | 126.72 |
| 12 | bA | 805 | CLA | C4C-C3C-C2C | -3.02 | 102.50 | 106.90 |
| 12 | bB | 905 | CLA | C3B-C4B-NB | 3.02 | 113.11 | 109.21 |
| 12 | bB | 909 | CLA | CHC-C1C-C2C | -3.01 | 118.38 | 126.72 |
| 12 | bB | 928 | CLA | O2D-CGD-O1D | -3.01 | 117.94 | 123.84 |
| 12 | bB | 915 | CLA | C3B-C4B-NB | 3.01 | 113.11 | 109.21 |
| 12 | bA | 807 | CLA | C1C-C2C-C3C | -3.01 | 103.79 | 106.96 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 930 | CLA | C4C-C3C-C2C | -3.01 | 102.51 | 106.90 |
| 12 | cB | 906 | CLA | CMC-C2C-C1C | 3.01 | 129.63 | 125.04 |
| 12 | cB | 934 | CLA | CHC-C1C-C2C | -3.01 | 118.39 | 126.72 |
| 12 | aA | 819 | CLA | C2A-C3A-C4A | -3.01 | 97.00 | 101.87 |
| 12 | aB | 915 | CLA | C3B-C4B-NB | 3.01 | 113.10 | 109.21 |
| 12 | bB | 905 | CLA | CHD-C4C-NC | 3.01 | 128.95 | 124.20 |
| 12 | bB | 906 | CLA | C4C-C3C-C2C | -3.01 | 102.51 | 106.90 |
| 12 | cA | 814 | CLA | CHC-C1C-C2C | -3.01 | 118.39 | 126.72 |
| 12 | aA | 830 | CLA | C1-C2-C3 | -3.01 | 120.84 | 126.04 |
| 12 | bA | 817 | CLA | C4C-C3C-C2C | -3.01 | 102.51 | 106.90 |
| 12 | cA | 819 | CLA | C2A-C3A-C4A | -3.01 | 97.01 | 101.87 |
| 12 | cB | 938 | CLA | C4C-C3C-C2C | -3.01 | 102.51 | 106.90 |
| 12 | cA | 808 | CLA | CHC-C1C-C2C | -3.01 | 118.40 | 126.72 |
| 12 | aA | 814 | CLA | CHC-C1C-C2C | -3.01 | 118.40 | 126.72 |
| 12 | aB | 928 | CLA | O2D-CGD-O1D | -3.01 | 117.96 | 123.84 |
| 12 | bB | 906 | CLA | C3B-C4B-NB | 3.01 | 113.10 | 109.21 |
| 12 | cA | 853 | CLA | CAC-C3C-C4C | 3.01 | 128.71 | 124.81 |
| 12 | aB | 909 | CLA | CHC-C1C-C2C | -3.01 | 118.41 | 126.72 |
| 12 | cB | 920 | CLA | CHD-C4C-NC | 3.00 | 128.94 | 124.20 |
| 12 | bA | 812 | CLA | CHC-C1C-C2C | -3.00 | 118.41 | 126.72 |
| 12 | cB | 909 | CLA | CHC-C1C-C2C | -3.00 | 118.41 | 126.72 |
| 15 | aI | 101 | BCR | C2-C1-C6 | 3.00 | 115.11 | 110.48 |
| 12 | aB | 919 | CLA | CAC-C3C-C4C | 3.00 | 128.71 | 124.81 |
| 12 | cB | 926 | CLA | CAA-C2A-C3A | -3.00 | 104.55 | 112.78 |
| 12 | aB | 926 | CLA | CAA-C2A-C3A | -3.00 | 104.56 | 112.78 |
| 12 | bB | 949 | CLA | CHC-C1C-C2C | -3.00 | 118.42 | 126.72 |
| 12 | cF | 202 | CLA | CMC-C2C-C1C | 3.00 | 129.61 | 125.04 |
| 12 | cB | 907 | CLA | CAC-C3C-C4C | 3.00 | 128.71 | 124.81 |
| 15 | bB | 941 | BCR | C15-C16-C17 | -3.00 | 117.32 | 123.47 |
| 12 | aB | 905 | CLA | CHD-C4C-NC | 3.00 | 128.93 | 124.20 |
| 12 | aF | 202 | CLA | CMC-C2C-C1C | 3.00 | 129.61 | 125.04 |
| 12 | cB | 905 | CLA | C11-C12-C13 | -3.00 | 106.22 | 115.92 |
| 12 | cA | 805 | CLA | C4C-C3C-C2C | -3.00 | 102.52 | 106.90 |
| 12 | aB | 913 | CLA | C4A-NA-C1A | -3.00 | 105.36 | 106.71 |
| 12 | aA | 837 | CLA | CHC-C1C-C2C | -3.00 | 118.42 | 126.72 |
| 12 | aB | 926 | CLA | C1C-C2C-C3C | -3.00 | 103.80 | 106.96 |
| 11 | aA | 801 | CL0 | CHC-C1C-C2C | -3.00 | 118.42 | 126.72 |
| 12 | bB | 933 | CLA | C3B-C4B-NB | 3.00 | 113.09 | 109.21 |
| 12 | cB | 934 | CLA | C3B-C4B-NB | 3.00 | 113.09 | 109.21 |
| 12 | aA | 833 | CLA | C4C-C3C-C2C | -3.00 | 102.53 | 106.90 |
| 12 | bA | 826 | CLA | CMC-C2C-C1C | 3.00 | 129.60 | 125.04 |
| 12 | bB | 929 | CLA | O2D-CGD-O1D | -3.00 | 117.98 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 906 | CLA | C4C-C3C-C2C | -3.00 | 102.53 | 106.90 |
| 12 | aA | 836 | CLA | C3C-C4C-NC | 3.00 | 113.93 | 110.57 |
| 12 | bB | 919 | CLA | CAC-C3C-C4C | 3.00 | 128.70 | 124.81 |
| 15 | aB | 941 | BCR | C15-C16-C17 | -3.00 | 117.34 | 123.47 |
| 12 | aB | 906 | CLA | CMC-C2C-C1C | 3.00 | 129.60 | 125.04 |
| 12 | aB | 929 | CLA | O2D-CGD-O1D | -3.00 | 117.98 | 123.84 |
| 12 | bB | 905 | CLA | C11-C12-C13 | -3.00 | 106.23 | 115.92 |
| 12 | aB | 925 | CLA | CHD-C4C-NC | 3.00 | 128.92 | 124.20 |
| 12 | bB | 934 | CLA | CHC-C1C-C2C | -3.00 | 118.44 | 126.72 |
| 12 | bA | 822 | CLA | CHD-C4C-NC | 3.00 | 128.92 | 124.20 |
| 12 | bB | 907 | CLA | O2A-CGA-CBA | 3.00 | 121.31 | 111.91 |
| 12 | aA | 820 | CLA | CHC-C1C-C2C | -2.99 | 118.44 | 126.72 |
| 12 | cB | 910 | CLA | CHC-C1C-C2C | -2.99 | 118.44 | 126.72 |
| 12 | cA | 812 | CLA | CHC-C1C-C2C | -2.99 | 118.44 | 126.72 |
| 12 | aA | 804 | CLA | CAC-C3C-C4C | 2.99 | 128.69 | 124.81 |
| 12 | cB | 949 | CLA | CHC-C1C-C2C | -2.99 | 118.44 | 126.72 |
| 12 | cB | 915 | CLA | C3B-C4B-NB | 2.99 | 113.08 | 109.21 |
| 12 | bA | 833 | CLA | C4-C3-C5 | 2.99 | 119.41 | 115.98 |
| 12 | aA | 854 | CLA | CAC-C3C-C4C | 2.99 | 128.69 | 124.81 |
| 12 | aB | 907 | CLA | CAC-C3C-C4C | 2.99 | 128.69 | 124.81 |
| 12 | cA | 815 | CLA | CAC-C3C-C4C | 2.99 | 128.69 | 124.81 |
| 12 | aA | 807 | CLA | C4C-C3C-C2C | -2.99 | 102.54 | 106.90 |
| 11 | bA | 801 | CL0 | CHC-C1C-C2C | -2.99 | 118.44 | 126.72 |
| 15 | cB | 941 | BCR | C15-C16-C17 | -2.99 | 117.34 | 123.47 |
| 12 | cB | 928 | CLA | O2D-CGD-O1D | -2.99 | 117.99 | 123.84 |
| 12 | cB | 914 | CLA | CHD-C4C-NC | 2.99 | 128.92 | 124.20 |
| 15 | bB | 945 | BCR | C15-C16-C17 | -2.99 | 117.35 | 123.47 |
| 12 | bB | 936 | CLA | C4C-C3C-C2C | -2.99 | 102.54 | 106.90 |
| 12 | cB | 930 | CLA | C4C-C3C-C2C | -2.99 | 102.54 | 106.90 |
| 12 | aB | 905 | CLA | C11-C12-C13 | -2.99 | 106.25 | 115.92 |
| 12 | bF | 202 | CLA | CMC-C2C-C1C | 2.99 | 129.59 | 125.04 |
| 12 | bA | 833 | CLA | C4C-C3C-C2C | -2.99 | 102.54 | 106.90 |
| 11 | bA | 801 | CL0 | CHD-C1D-ND | -2.99 | 121.71 | 124.45 |
| 13 | cA | 844 | 1L3 | C01-C02-C03 | -2.99 | 119.52 | 124.40 |
| 12 | cA | 820 | CLA | CHC-C1C-C2C | -2.99 | 118.45 | 126.72 |
| 12 | bA | 838 | CLA | C4C-C3C-C2C | -2.99 | 102.54 | 106.90 |
| 12 | bB | 907 | CLA | CAC-C3C-C4C | 2.99 | 128.69 | 124.81 |
| 12 | aA | 844 | CLA | O2D-CGD-O1D | -2.99 | 118.00 | 123.84 |
| 11 | cA | 801 | CL0 | CHC-C1C-C2C | -2.99 | 118.46 | 126.72 |
| 12 | cA | 837 | CLA | CHC-C1C-C2C | -2.99 | 118.46 | 126.72 |
| 12 | bA | 820 | CLA | CHC-C1C-C2C | -2.99 | 118.46 | 126.72 |
| 12 | cB | 905 | CLA | CHD-C4C-NC | 2.99 | 128.91 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 807 | CLA | C4C-C3C-C2C | -2.99 | 102.55 | 106.90 |
| 12 | bL | 202 | CLA | CBC-CAC-C3C | -2.99 | 104.20 | 112.43 |
| 12 | cA | 804 | CLA | CAC-C3C-C4C | 2.98 | 128.68 | 124.81 |
| 12 | aA | 803 | CLA | C4-C3-C5 | 2.98 | 120.29 | 115.27 |
| 12 | cA | 803 | CLA | C4-C3-C5 | 2.98 | 120.29 | 115.27 |
| 12 | aB | 906 | CLA | C3B-C4B-NB | 2.98 | 113.07 | 109.21 |
| 12 | bB | 910 | CLA | CHC-C1C-C2C | -2.98 | 118.47 | 126.72 |
| 15 | cB | 945 | BCR | C15-C16-C17 | -2.98 | 117.36 | 123.47 |
| 12 | aB | 949 | CLA | CHC-C1C-C2C | -2.98 | 118.47 | 126.72 |
| 12 | bB | 914 | CLA | CHD-C4C-NC | 2.98 | 128.90 | 124.20 |
| 12 | bB | 937 | CLA | C3B-C4B-NB | 2.98 | 113.07 | 109.21 |
| 12 | aB | 910 | CLA | CHC-C1C-C2C | -2.98 | 118.48 | 126.72 |
| 12 | bB | 924 | CLA | C4A-NA-C1A | -2.98 | 105.37 | 106.71 |
| 12 | cA | 803 | CLA | CMB-C2B-C1B | -2.98 | 123.88 | 128.46 |
| 12 | aB | 937 | CLA | C3B-C4B-NB | 2.98 | 113.06 | 109.21 |
| 12 | bA | 810 | CLA | C3B-C4B-NB | 2.98 | 113.06 | 109.21 |
| 12 | aB | 907 | CLA | O2A-CGA-CBA | 2.98 | 121.26 | 111.91 |
| 12 | cB | 907 | CLA | O2A-CGA-CBA | 2.98 | 121.26 | 111.91 |
| 12 | aA | 833 | CLA | C4-C3-C5 | 2.98 | 119.39 | 115.98 |
| 12 | bB | 950 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 12 | cB | 929 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 12 | aB | 924 | CLA | O2D-CGD-O1D | -2.98 | 118.01 | 123.84 |
| 12 | aB | 926 | CLA | CAC-C3C-C4C | 2.98 | 128.68 | 124.81 |
| 12 | cB | 926 | CLA | CAC-C3C-C4C | 2.98 | 128.68 | 124.81 |
| 12 | bA | 803 | CLA | C4-C3-C5 | 2.98 | 120.28 | 115.27 |
| 12 | cB | 920 | CLA | CMB-C2B-C3B | 2.98 | 130.25 | 124.68 |
| 15 | cB | 945 | BCR | C2-C1-C6 | 2.98 | 115.06 | 110.48 |
| 12 | bA | 820 | CLA | C4C-C3C-C2C | -2.98 | 102.56 | 106.90 |
| 12 | bA | 811 | CLA | C4C-C3C-C2C | -2.98 | 102.56 | 106.90 |
| 12 | cB | 924 | CLA | O2D-CGD-O1D | -2.98 | 118.02 | 123.84 |
| 12 | cB | 924 | CLA | C4A-NA-C1A | -2.98 | 105.37 | 106.71 |
| 12 | aA | 815 | CLA | CAC-C3C-C4C | 2.98 | 128.67 | 124.81 |
| 12 | bB | 901 | CLA | CHD-C4C-NC | 2.98 | 128.89 | 124.20 |
| 12 | aA | 835 | CLA | CMC-C2C-C1C | 2.98 | 129.57 | 125.04 |
| 12 | bB | 924 | CLA | O2D-CGD-O1D | -2.97 | 118.02 | 123.84 |
| 12 | bA | 837 | CLA | CHC-C1C-C2C | -2.97 | 118.49 | 126.72 |
| 12 | bB | 926 | CLA | C1C-C2C-C3C | -2.97 | 103.83 | 106.96 |
| 12 | cB | 925 | CLA | CHD-C4C-NC | 2.97 | 128.89 | 124.20 |
| 15 | aB | 945 | BCR | C15-C16-C17 | -2.97 | 117.38 | 123.47 |
| 12 | aF | 202 | CLA | C3B-C4B-NB | 2.97 | 113.05 | 109.21 |
| 12 | cB | 911 | CLA | C3B-C4B-NB | 2.97 | 113.05 | 109.21 |
| 12 | aB | 937 | CLA | C4C-C3C-C2C | -2.97 | 102.56 | 106.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 937 | CLA | C4C-C3C-C2C | -2.97 | 102.57 | 106.90 |
| 12 | aA | 818 | CLA | C4A-NA-C1A | -2.97 | 105.37 | 106.71 |
| 12 | aA | 803 | CLA | C1D-CHD-C4C | -2.97 | 119.65 | 126.06 |
| 12 | aB | 914 | CLA | CHD-C4C-NC | 2.97 | 128.88 | 124.20 |
| 12 | aA | 811 | CLA | C4C-C3C-C2C | -2.97 | 102.57 | 106.90 |
| 12 | cA | 820 | CLA | C4C-C3C-C2C | -2.97 | 102.57 | 106.90 |
| 12 | cB | 901 | CLA | CHD-C4C-NC | 2.97 | 128.88 | 124.20 |
| 12 | cB | 905 | CLA | C4C-C3C-C2C | -2.97 | 102.57 | 106.90 |
| 12 | aB | 936 | CLA | C4C-C3C-C2C | -2.97 | 102.57 | 106.90 |
| 12 | bB | 937 | CLA | CMB-C2B-C3B | 2.97 | 130.23 | 124.68 |
| 12 | cA | 833 | CLA | C4C-C3C-C2C | -2.97 | 102.57 | 106.90 |
| 12 | cB | 937 | CLA | C4C-C3C-C2C | -2.97 | 102.57 | 106.90 |
| 12 | bB | 907 | CLA | O2A-CGA-O1A | -2.97 | 116.10 | 123.59 |
| 12 | bB | 925 | CLA | CHD-C4C-NC | 2.97 | 128.88 | 124.20 |
| 12 | bB | 916 | CLA | CMB-C2B-C3B | 2.97 | 130.23 | 124.68 |
| 12 | bB | 907 | CLA | CBA-CAA-C2A | 2.97 | 122.62 | 113.86 |
| 12 | aB | 933 | CLA | O2D-CGD-O1D | -2.97 | 118.04 | 123.84 |
| 12 | bB | 919 | CLA | CHC-C1C-C2C | -2.96 | 118.52 | 126.72 |
| 13 | bA | 844 | 1L3 | C01-C02-C03 | -2.96 | 119.56 | 124.40 |
| 12 | aB | 919 | CLA | CHC-C1C-C2C | -2.96 | 118.52 | 126.72 |
| 12 | cL | 202 | CLA | CBC-CAC-C3C | -2.96 | 104.26 | 112.43 |
| 12 | cB | 907 | CLA | O2A-CGA-O1A | -2.96 | 116.11 | 123.59 |
| 12 | bB | 933 | CLA | O2D-CGD-O1D | -2.96 | 118.05 | 123.84 |
| 15 | bA | 850 | BCR | C15-C16-C17 | -2.96 | 117.41 | 123.47 |
| 12 | aB | 934 | CLA | C3B-C4B-NB | 2.96 | 113.04 | 109.21 |
| 12 | cB | 907 | CLA | CBA-CAA-C2A | 2.96 | 122.60 | 113.86 |
| 13 | aA | 845 | 1L3 | C01-C02-C03 | -2.96 | 119.57 | 124.40 |
| 12 | bB | 905 | CLA | C4C-C3C-C2C | -2.96 | 102.58 | 106.90 |
| 12 | bA | 803 | CLA | C1D-CHD-C4C | -2.96 | 119.67 | 126.06 |
| 12 | cA | 811 | CLA | C4C-C3C-C2C | -2.96 | 102.58 | 106.90 |
| 12 | bA | 804 | CLA | CAC-C3C-C4C | 2.96 | 128.65 | 124.81 |
| 12 | cB | 911 | CLA | C4C-C3C-C2C | -2.96 | 102.58 | 106.90 |
| 12 | aA | 803 | CLA | CMB-C2B-C1B | -2.96 | 123.92 | 128.46 |
| 12 | aL | 202 | CLA | CBC-CAC-C3C | -2.96 | 104.28 | 112.43 |
| 12 | cB | 919 | CLA | CHC-C1C-C2C | -2.96 | 118.54 | 126.72 |
| 12 | cA | 803 | CLA | C1D-CHD-C4C | -2.96 | 119.68 | 126.06 |
| 12 | bL | 204 | CLA | C4C-C3C-C2C | -2.96 | 102.59 | 106.90 |
| 12 | cA | 807 | CLA | C4C-C3C-C2C | -2.96 | 102.59 | 106.90 |
| 12 | cB | 936 | CLA | C4C-C3C-C2C | -2.96 | 102.59 | 106.90 |
| 12 | aB | 907 | CLA | O2A-CGA-O1A | -2.96 | 116.13 | 123.59 |
| 15 | bB | 945 | BCR | C2-C1-C6 | 2.95 | 115.03 | 110.48 |
| 15 | cA | 850 | BCR | C15-C16-C17 | -2.95 | 117.42 | 123.47 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aL | 204 | CLA | O2D-CGD-O1D | -2.95 | 118.06 | 123.84 |
| 12 | cA | 833 | CLA | C4-C3-C5 | 2.95 | 119.36 | 115.98 |
| 12 | aB | 905 | CLA | C4C-C3C-C2C | -2.95 | 102.59 | 106.90 |
| 12 | bA | 815 | CLA | CAC-C3C-C4C | 2.95 | 128.64 | 124.81 |
| 12 | aB | 937 | CLA | CMB-C2B-C3B | 2.95 | 130.21 | 124.68 |
| 12 | bL | 204 | CLA | O2D-CGD-O1D | -2.95 | 118.06 | 123.84 |
| 12 | cB | 937 | CLA | CMB-C2B-C3B | 2.95 | 130.20 | 124.68 |
| 12 | bB | 911 | CLA | C3B-C4B-NB | 2.95 | 113.03 | 109.21 |
| 12 | bA | 840 | CLA | C4C-C3C-C2C | -2.95 | 102.59 | 106.90 |
| 12 | cL | 204 | CLA | C4C-C3C-C2C | -2.95 | 102.59 | 106.90 |
| 12 | cA | 842 | CLA | C4-C3-C5 | 2.95 | 120.24 | 115.27 |
| 12 | aL | 204 | CLA | C4C-C3C-C2C | -2.95 | 102.59 | 106.90 |
| 12 | cA | 838 | CLA | C4C-C3C-C2C | -2.95 | 102.59 | 106.90 |
| 12 | aB | 911 | CLA | C3B-C4B-NB | 2.95 | 113.03 | 109.21 |
| 12 | aB | 924 | CLA | C4A-NA-C1A | -2.95 | 105.38 | 106.71 |
| 12 | bA | 803 | CLA | CMB-C2B-C1B | -2.95 | 123.93 | 128.46 |
| 12 | cA | 817 | CLA | CHD-C4C-NC | 2.95 | 128.85 | 124.20 |
| 12 | bA | 831 | CLA | CHC-C1C-C2C | -2.95 | 118.56 | 126.72 |
| 12 | aA | 842 | CLA | C4-C3-C5 | 2.95 | 120.23 | 115.27 |
| 12 | aB | 907 | CLA | CBA-CAA-C2A | 2.95 | 122.57 | 113.86 |
| 12 | cA | 836 | CLA | CMC-C2C-C1C | 2.95 | 129.53 | 125.04 |
| 12 | aA | 822 | CLA | C1D-CHD-C4C | -2.95 | 119.70 | 126.06 |
| 12 | aA | 820 | CLA | C4C-C3C-C2C | -2.95 | 102.60 | 106.90 |
| 12 | cB | 937 | CLA | C3B-C4B-NB | 2.95 | 113.02 | 109.21 |
| 12 | cB | 919 | CLA | CAC-C3C-C4C | 2.95 | 128.63 | 124.81 |
| 12 | aA | 838 | CLA | C4C-C3C-C2C | -2.95 | 102.60 | 106.90 |
| 12 | aB | 950 | CLA | O2D-CGD-O1D | -2.95 | 118.08 | 123.84 |
| 12 | bA | 842 | CLA | C4-C3-C5 | 2.95 | 120.23 | 115.27 |
| 12 | cB | 916 | CLA | C1-C2-C3 | -2.94 | 120.95 | 126.04 |
| 12 | aA | 832 | CLA | CAC-C3C-C4C | 2.94 | 128.63 | 124.81 |
| 12 | bB | 915 | CLA | C4C-C3C-C2C | -2.94 | 102.61 | 106.90 |
| 12 | cA | 815 | CLA | C4C-C3C-C2C | -2.94 | 102.61 | 106.90 |
| 12 | bB | 920 | CLA | CMB-C2B-C3B | 2.94 | 130.18 | 124.68 |
| 12 | aB | 911 | CLA | C4C-C3C-C2C | -2.94 | 102.61 | 106.90 |
| 12 | cA | 824 | CLA | CAA-C2A-C3A | -2.94 | 104.73 | 112.78 |
| 12 | cA | 831 | CLA | CHC-C1C-C2C | -2.94 | 118.59 | 126.72 |
| 15 | aA | 851 | BCR | C15-C16-C17 | -2.94 | 117.45 | 123.47 |
| 12 | cB | 924 | CLA | C1D-CHD-C4C | -2.94 | 119.72 | 126.06 |
| 12 | aA | 811 | CLA | CHC-C1C-C2C | -2.94 | 118.59 | 126.72 |
| 12 | aA | 831 | CLA | CHC-C1C-C2C | -2.94 | 118.59 | 126.72 |
| 12 | aA | 814 | CLA | C4A-NA-C1A | -2.94 | 105.39 | 106.71 |
| 12 | aA | 817 | CLA | CHD-C4C-NC | 2.94 | 128.83 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 924 | CLA | C1D-CHD-C4C | -2.94 | 119.72 | 126.06 |
| 12 | cA | 810 | CLA | C3B-C4B-NB | 2.94 | 113.01 | 109.21 |
| 12 | cF | 202 | CLA | C3B-C4B-NB | 2.94 | 113.01 | 109.21 |
| 12 | aB | 915 | CLA | C4C-C3C-C2C | -2.94 | 102.62 | 106.90 |
| 12 | bB | 911 | CLA | C4C-C3C-C2C | -2.94 | 102.62 | 106.90 |
| 12 | aB | 920 | CLA | CMB-C2B-C3B | 2.94 | 130.17 | 124.68 |
| 12 | aB | 916 | CLA | CMB-C2B-C3B | 2.94 | 130.17 | 124.68 |
| 12 | bA | 836 | CLA | CMC-C2C-C1C | 2.94 | 129.51 | 125.04 |
| 12 | aB | 924 | CLA | C1D-CHD-C4C | -2.93 | 119.73 | 126.06 |
| 12 | aA | 824 | CLA | CAA-C2A-C3A | -2.93 | 104.74 | 112.78 |
| 12 | bA | 815 | CLA | C4C-C3C-C2C | -2.93 | 102.62 | 106.90 |
| 12 | bA | 822 | CLA | C1D-CHD-C4C | -2.93 | 119.73 | 126.06 |
| 12 | cA | 826 | CLA | CBC-CAC-C3C | -2.93 | 104.35 | 112.43 |
| 12 | cA | 817 | CLA | CAA-C2A-C3A | -2.93 | 104.75 | 112.78 |
| 12 | cB | 915 | CLA | C4C-C3C-C2C | -2.93 | 102.63 | 106.90 |
| 12 | aB | 902 | CLA | CHB-C4A-NA | 2.93 | 128.56 | 124.51 |
| 12 | bA | 824 | CLA | CAA-C2A-C3A | -2.93 | 104.75 | 112.78 |
| 12 | bB | 927 | CLA | CHC-C1C-C2C | -2.93 | 118.62 | 126.72 |
| 12 | bA | 817 | CLA | CHD-C4C-NC | 2.93 | 128.82 | 124.20 |
| 12 | aA | 826 | CLA | CBC-CAC-C3C | -2.93 | 104.36 | 112.43 |
| 12 | bA | 826 | CLA | CBC-CAC-C3C | -2.93 | 104.36 | 112.43 |
| 12 | cB | 916 | CLA | CMB-C2B-C3B | 2.93 | 130.16 | 124.68 |
| 12 | bA | 811 | CLA | CHC-C1C-C2C | -2.93 | 118.62 | 126.72 |
| 12 | aA | 817 | CLA | CAA-C2A-C3A | -2.93 | 104.76 | 112.78 |
| 12 | bA | 832 | CLA | CAC-C3C-C4C | 2.93 | 128.61 | 124.81 |
| 12 | cA | 840 | CLA | C4C-C3C-C2C | -2.93 | 102.63 | 106.90 |
| 12 | aL | 203 | CLA | C4A-NA-C1A | -2.93 | 105.39 | 106.71 |
| 12 | bA | 812 | CLA | C4C-C3C-C2C | -2.93 | 102.63 | 106.90 |
| 12 | cA | 811 | CLA | CHC-C1C-C2C | -2.93 | 118.62 | 126.72 |
| 12 | aA | 819 | CLA | C4C-C3C-C2C | -2.93 | 102.63 | 106.90 |
| 12 | cB | 932 | CLA | CAC-C3C-C4C | 2.93 | 128.61 | 124.81 |
| 12 | bB | 916 | CLA | C1-C2-C3 | -2.93 | 120.98 | 126.04 |
| 12 | bL | 203 | CLA | C4A-NA-C1A | -2.92 | 105.39 | 106.71 |
| 12 | cA | 822 | CLA | C1D-CHD-C4C | -2.92 | 119.75 | 126.06 |
| 12 | aA | 828 | CLA | C4-C3-C5 | 2.92 | 120.19 | 115.27 |
| 12 | cA | 828 | CLA | C4-C3-C5 | 2.92 | 120.19 | 115.27 |
| 12 | bF | 202 | CLA | C3B-C4B-NB | 2.92 | 112.99 | 109.21 |
| 15 | aA | 848 | BCR | C40-C30-C25 | 2.92 | 115.04 | 110.30 |
| 12 | aB | 901 | CLA | CHD-C4C-NC | 2.92 | 128.81 | 124.20 |
| 12 | aB | 932 | CLA | CAC-C3C-C4C | 2.92 | 128.60 | 124.81 |
| 12 | bA | 817 | CLA | CAA-C2A-C3A | -2.92 | 104.78 | 112.78 |
| 12 | aA | 836 | CLA | CMC-C2C-C1C | 2.92 | 129.49 | 125.04 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 828 | CLA | C4-C3-C5 | 2.92 | 120.18 | 115.27 |
| 12 | cB | 933 | CLA | O2D-CGD-O1D | -2.92 | 118.13 | 123.84 |
| 12 | cL | 204 | CLA | O2D-CGD-O1D | -2.92 | 118.13 | 123.84 |
| 12 | bA | 831 | CLA | O2D-CGD-O1D | -2.92 | 118.13 | 123.84 |
| 15 | aB | 945 | BCR | C2-C1-C6 | 2.92 | 114.98 | 110.48 |
| 12 | bA | 819 | CLA | C4C-C3C-C2C | -2.92 | 102.64 | 106.90 |
| 12 | bA | 804 | CLA | CMB-C2B-C3B | 2.92 | 130.14 | 124.68 |
| 12 | aA | 815 | CLA | C4C-C3C-C2C | -2.92 | 102.64 | 106.90 |
| 12 | aA | 803 | CLA | CBC-CAC-C3C | -2.92 | 104.39 | 112.43 |
| 15 | cA | 847 | BCR | C40-C30-C25 | 2.92 | 115.03 | 110.30 |
| 12 | aB | 904 | CLA | O2D-CGD-O1D | -2.92 | 118.14 | 123.84 |
| 12 | aA | 840 | CLA | C4C-C3C-C2C | -2.92 | 102.65 | 106.90 |
| 12 | aA | 810 | CLA | C3B-C4B-NB | 2.92 | 112.98 | 109.21 |
| 12 | aB | 916 | CLA | C1-C2-C3 | -2.92 | 121.00 | 126.04 |
| 12 | aA | 812 | CLA | C4C-C3C-C2C | -2.91 | 102.65 | 106.90 |
| 12 | cL | 202 | CLA | C4-C3-C5 | 2.91 | 120.17 | 115.27 |
| 12 | cA | 804 | CLA | CMB-C2B-C3B | 2.91 | 130.13 | 124.68 |
| 15 | bA | 847 | BCR | C40-C30-C25 | 2.91 | 115.02 | 110.30 |
| 12 | cA | 838 | CLA | O2D-CGD-O1D | -2.91 | 118.14 | 123.84 |
| 12 | aB | 925 | CLA | OBD-CAD-C3D | -2.91 | 121.51 | 128.52 |
| 12 | aB | 927 | CLA | CHC-C1C-C2C | -2.91 | 118.67 | 126.72 |
| 12 | cA | 821 | CLA | CHC-C1C-C2C | -2.91 | 118.67 | 126.72 |
| 12 | cA | 832 | CLA | CAC-C3C-C4C | 2.91 | 128.58 | 124.81 |
| 12 | cB | 927 | CLA | CHC-C1C-C2C | -2.91 | 118.68 | 126.72 |
| 12 | aA | 831 | CLA | O2D-CGD-O1D | -2.91 | 118.15 | 123.84 |
| 12 | aA | 838 | CLA | O2D-CGD-O1D | -2.91 | 118.15 | 123.84 |
| 12 | bB | 932 | CLA | CAC-C3C-C4C | 2.91 | 128.58 | 124.81 |
| 12 | aL | 202 | CLA | C4-C3-C5 | 2.91 | 120.16 | 115.27 |
| 13 | cA | 844 | 1L3 | C01-C02-C12 | 2.91 | 121.09 | 116.27 |
| 12 | cB | 904 | CLA | O2D-CGD-O1D | -2.91 | 118.16 | 123.84 |
| 12 | bB | 925 | CLA | OBD-CAD-C3D | -2.90 | 121.53 | 128.52 |
| 12 | aB | 915 | CLA | C4-C3-C5 | 2.90 | 120.16 | 115.27 |
| 12 | cA | 805 | CLA | C3B-C4B-NB | 2.90 | 112.96 | 109.21 |
| 12 | cA | 831 | CLA | O2D-CGD-O1D | -2.90 | 118.16 | 123.84 |
| 11 | bA | 801 | CL0 | C4C-C3C-C2C | -2.90 | 102.67 | 106.90 |
| 12 | cB | 905 | CLA | CAC-C3C-C4C | 2.90 | 128.57 | 124.81 |
| 12 | cA | 819 | CLA | C4C-C3C-C2C | -2.90 | 102.67 | 106.90 |
| 12 | bB | 904 | CLA | O2D-CGD-O1D | -2.90 | 118.17 | 123.84 |
| 12 | bB | 930 | CLA | CHC-C1C-C2C | -2.90 | 118.70 | 126.72 |
| 12 | bB | 902 | CLA | CHB-C4A-NA | 2.90 | 128.52 | 124.51 |
| 13 | bA | 844 | 1L3 | C01-C02-C12 | 2.90 | 121.08 | 116.27 |
| 12 | aA | 804 | CLA | CMB-C2B-C3B | 2.90 | 130.10 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bL | 202 | CLA | C4-C3-C5 | 2.90 | 120.15 | 115.27 |
| 12 | aA | 821 | CLA | CHC-C1C-C2C | -2.90 | 118.71 | 126.72 |
| 12 | cB | 925 | CLA | OBD-CAD-C3D | -2.90 | 121.55 | 128.52 |
| 12 | bL | 202 | CLA | CAA-C2A-C3A | -2.90 | 104.85 | 112.78 |
| 12 | cL | 202 | CLA | CAA-C2A-C3A | -2.90 | 104.85 | 112.78 |
| 12 | bA | 838 | CLA | O2D-CGD-O1D | -2.89 | 118.18 | 123.84 |
| 12 | aA | 829 | CLA | CHC-C1C-C2C | -2.89 | 118.72 | 126.72 |
| 11 | cA | 801 | CL0 | C4C-C3C-C2C | -2.89 | 102.68 | 106.90 |
| 15 | cA | 847 | BCR | C7-C8-C9 | -2.89 | 121.86 | 126.23 |
| 12 | bB | 937 | CLA | CHC-C1C-C2C | -2.89 | 118.72 | 126.72 |
| 12 | aL | 202 | CLA | CHC-C1C-C2C | -2.89 | 118.72 | 126.72 |
| 12 | cB | 930 | CLA | CHC-C1C-C2C | -2.89 | 118.72 | 126.72 |
| 12 | aB | 932 | CLA | CHC-C1C-C2C | -2.89 | 118.72 | 126.72 |
| 12 | aA | 809 | CLA | CHB-C4A-NA | 2.89 | 128.51 | 124.51 |
| 12 | bB | 938 | CLA | CAC-C3C-C4C | 2.89 | 128.56 | 124.81 |
| 12 | cA | 814 | CLA | C4A-NA-C1A | -2.89 | 105.41 | 106.71 |
| 12 | cB | 937 | CLA | CHC-C1C-C2C | -2.89 | 118.72 | 126.72 |
| 12 | aL | 202 | CLA | CAA-C2A-C3A | -2.89 | 104.86 | 112.78 |
| 12 | cA | 807 | CLA | C1-C2-C3 | -2.89 | 121.05 | 126.04 |
| 12 | cA | 812 | CLA | C4C-C3C-C2C | -2.89 | 102.69 | 106.90 |
| 12 | bA | 829 | CLA | CHC-C1C-C2C | -2.89 | 118.73 | 126.72 |
| 12 | bA | 809 | CLA | CHB-C4A-NA | 2.89 | 128.50 | 124.51 |
| 12 | cA | 803 | CLA | CBC-CAC-C3C | -2.89 | 104.47 | 112.43 |
| 12 | aA | 805 | CLA | C3B-C4B-NB | 2.89 | 112.94 | 109.21 |
| 12 | cL | 202 | CLA | CHC-C1C-C2C | -2.89 | 118.74 | 126.72 |
| 12 | cA | 841 | CLA | O2D-CGD-CBD | 2.88 | 116.39 | 111.27 |
| 12 | bA | 816 | CLA | CHC-C1C-C2C | -2.88 | 118.75 | 126.72 |
| 12 | cA | 804 | CLA | C4A-NA-C1A | -2.88 | 105.41 | 106.71 |
| 11 | aA | 801 | CL0 | C4C-C3C-C2C | -2.88 | 102.70 | 106.90 |
| 12 | cA | 840 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |
| 12 | bA | 804 | CLA | O2D-CGD-O1D | -2.88 | 118.20 | 123.84 |
| 13 | aA | 845 | 1L3 | C01-C02-C12 | 2.88 | 121.05 | 116.27 |
| 12 | cA | 824 | CLA | CMB-C2B-C3B | 2.88 | 130.07 | 124.68 |
| 12 | bA | 805 | CLA | C3B-C4B-NB | 2.88 | 112.93 | 109.21 |
| 12 | bA | 816 | CLA | CAC-C3C-C4C | 2.88 | 128.55 | 124.81 |
| 12 | bB | 905 | CLA | CAC-C3C-C4C | 2.88 | 128.55 | 124.81 |
| 12 | cA | 804 | CLA | O2D-CGD-O1D | -2.88 | 118.21 | 123.84 |
| 12 | cB | 935 | CLA | O2A-CGA-CBA | 2.88 | 120.95 | 111.91 |
| 12 | bL | 202 | CLA | CHC-C1C-C2C | -2.88 | 118.76 | 126.72 |
| 12 | cB | 932 | CLA | CHC-C1C-C2C | -2.88 | 118.76 | 126.72 |
| 12 | cB | 902 | CLA | CHB-C4A-NA | 2.88 | 128.49 | 124.51 |
| 15 | cJ | 101 | BCR | C7-C8-C9 | -2.88 | 121.89 | 126.23 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 938 | CLA | CAC-C3C-C4C | 2.88 | 128.54 | 124.81 |
| 12 | aB | 937 | CLA | CHC-C1C-C2C | -2.88 | 118.76 | 126.72 |
| 12 | cA | 829 | CLA | CHC-C1C-C2C | -2.88 | 118.76 | 126.72 |
| 12 | cA | 818 | CLA | O2A-C1-C2 | -2.88 | 101.07 | 108.64 |
| 12 | aB | 935 | CLA | O2A-CGA-CBA | 2.88 | 120.94 | 111.91 |
| 12 | bA | 841 | CLA | O2D-CGD-CBD | 2.88 | 116.38 | 111.27 |
| 12 | aB | 938 | CLA | CAC-C3C-C4C | 2.88 | 128.54 | 124.81 |
| 12 | cB | 933 | CLA | C4C-C3C-C2C | -2.88 | 102.70 | 106.90 |
| 12 | cB | 934 | CLA | C4C-C3C-C2C | -2.88 | 102.70 | 106.90 |
| 15 | bA | 847 | BCR | C7-C8-C9 | -2.88 | 121.89 | 126.23 |
| 12 | aA | 818 | CLA | O2A-C1-C2 | -2.88 | 101.08 | 108.64 |
| 12 | aB | 911 | CLA | O2D-CGD-O1D | -2.88 | 118.22 | 123.84 |
| 12 | bA | 803 | CLA | CBC-CAC-C3C | -2.88 | 104.50 | 112.43 |
| 12 | aA | 816 | CLA | CAC-C3C-C4C | 2.88 | 128.54 | 124.81 |
| 15 | aA | 848 | BCR | C7-C8-C9 | -2.88 | 121.89 | 126.23 |
| 12 | bA | 840 | CLA | CMB-C2B-C3B | 2.87 | 130.06 | 124.68 |
| 12 | bB | 915 | CLA | C4-C3-C5 | 2.87 | 120.11 | 115.27 |
| 12 | aB | 930 | CLA | CHC-C1C-C2C | -2.87 | 118.77 | 126.72 |
| 12 | cA | 816 | CLA | CAC-C3C-C4C | 2.87 | 128.54 | 124.81 |
| 12 | cA | 817 | CLA | CMC-C2C-C1C | 2.87 | 129.41 | 125.04 |
| 12 | cA | 819 | CLA | CHC-C1C-C2C | -2.87 | 118.78 | 126.72 |
| 17 | aB | 947 | LMG | O6-C1-O1 | -2.87 | 103.17 | 109.97 |
| 17 | cB | 947 | LMG | O6-C1-O1 | -2.87 | 103.17 | 109.97 |
| 12 | cA | 816 | CLA | CHC-C1C-C2C | -2.87 | 118.78 | 126.72 |
| 12 | bB | 918 | CLA | CMA-C3A-C4A | -2.87 | 104.05 | 111.77 |
| 12 | aA | 816 | CLA | CHC-C1C-C2C | -2.87 | 118.78 | 126.72 |
| 12 | bA | 821 | CLA | CHC-C1C-C2C | -2.87 | 118.78 | 126.72 |
| 12 | aA | 831 | CLA | CHB-C4A-NA | 2.87 | 128.48 | 124.51 |
| 12 | cA | 843 | CLA | O2A-CGA-O1A | -2.87 | 116.35 | 123.59 |
| 12 | aA | 841 | CLA | O2D-CGD-CBD | 2.87 | 116.37 | 111.27 |
| 12 | aA | 842 | CLA | CHC-C1C-C2C | -2.87 | 118.79 | 126.72 |
| 12 | aB | 918 | CLA | CMA-C3A-C4A | -2.87 | 104.06 | 111.77 |
| 12 | aB | 913 | CLA | C4C-C3C-C2C | -2.87 | 102.72 | 106.90 |
| 12 | cB | 915 | CLA | C4-C3-C5 | 2.87 | 120.09 | 115.27 |
| 12 | bA | 818 | CLA | O2A-C1-C2 | -2.87 | 101.10 | 108.64 |
| 12 | bB | 932 | CLA | CHC-C1C-C2C | -2.87 | 118.80 | 126.72 |
| 12 | bA | 817 | CLA | CMC-C2C-C1C | 2.86 | 129.40 | 125.04 |
| 15 | bJ | 101 | BCR | C7-C8-C9 | -2.86 | 121.91 | 126.23 |
| 12 | bA | 818 | CLA | CHC-C1C-C2C | -2.86 | 118.80 | 126.72 |
| 12 | cB | 918 | CLA | CMA-C3A-C4A | -2.86 | 104.07 | 111.77 |
| 12 | aA | 804 | CLA | O2D-CGD-O1D | -2.86 | 118.24 | 123.84 |
| 12 | aB | 934 | CLA | C4C-C3C-C2C | -2.86 | 102.72 | 106.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 17 | bB | 947 | LMG | O6-C1-O1 | -2.86 | 103.19 | 109.97 |
| 12 | aA | 813 | CLA | O2D-CGD-O1D | -2.86 | 118.24 | 123.84 |
| 12 | bB | 913 | CLA | C4C-C3C-C2C | -2.86 | 102.72 | 106.90 |
| 12 | bB | 935 | CLA | O2A-CGA-CBA | 2.86 | 120.89 | 111.91 |
| 12 | aA | 802 | CLA | C4-C3-C5 | 2.86 | 120.08 | 115.27 |
| 12 | cB | 936 | CLA | CHC-C1C-C2C | -2.86 | 118.81 | 126.72 |
| 12 | bA | 843 | CLA | O2A-CGA-O1A | -2.86 | 116.37 | 123.59 |
| 15 | aI | 101 | BCR | C15-C16-C17 | -2.86 | 117.61 | 123.47 |
| 12 | bB | 933 | CLA | C4C-C3C-C2C | -2.86 | 102.73 | 106.90 |
| 12 | cB | 913 | CLA | C4C-C3C-C2C | -2.86 | 102.73 | 106.90 |
| 12 | aB | 933 | CLA | C4C-C3C-C2C | -2.86 | 102.73 | 106.90 |
| 12 | cA | 831 | CLA | C1-C2-C3 | -2.86 | 122.13 | 126.75 |
| 12 | bA | 824 | CLA | CMB-C2B-C3B | 2.86 | 130.03 | 124.68 |
| 12 | cA | 842 | CLA | CHC-C1C-C2C | -2.86 | 118.81 | 126.72 |
| 12 | bB | 937 | CLA | CAA-C2A-C3A | -2.86 | 104.95 | 112.78 |
| 12 | cA | 813 | CLA | O2D-CGD-O1D | -2.86 | 118.25 | 123.84 |
| 12 | cB | 905 | CLA | CED-O2D-CGD | 2.86 | 122.40 | 115.94 |
| 12 | aA | 832 | CLA | C4-C3-C5 | 2.86 | 120.08 | 115.27 |
| 12 | cA | 843 | CLA | C4-C3-C5 | 2.86 | 120.08 | 115.27 |
| 15 | cI | 101 | BCR | C15-C16-C17 | -2.86 | 117.62 | 123.47 |
| 12 | aA | 842 | CLA | C1-O2A-CGA | 2.86 | 123.94 | 116.44 |
| 12 | aA | 818 | CLA | CHC-C1C-C2C | -2.86 | 118.82 | 126.72 |
| 12 | aB | 924 | CLA | CHC-C1C-C2C | -2.86 | 118.82 | 126.72 |
| 12 | cA | 818 | CLA | CHC-C1C-C2C | -2.86 | 118.82 | 126.72 |
| 12 | bB | 933 | CLA | CAA-C2A-C3A | -2.86 | 104.96 | 112.78 |
| 12 | aA | 819 | CLA | CHC-C1C-C2C | -2.86 | 118.82 | 126.72 |
| 12 | cB | 924 | CLA | CHC-C1C-C2C | -2.86 | 118.82 | 126.72 |
| 12 | aA | 843 | CLA | O2A-CGA-O1A | -2.85 | 116.39 | 123.59 |
| 12 | aA | 840 | CLA | CMB-C2B-C3B | 2.85 | 130.02 | 124.68 |
| 12 | aA | 831 | CLA | C1-C2-C3 | -2.85 | 122.13 | 126.75 |
| 12 | aB | 931 | CLA | CAC-C3C-C4C | 2.85 | 128.51 | 124.81 |
| 12 | cA | 831 | CLA | CHB-C4A-NA | 2.85 | 128.46 | 124.51 |
| 12 | bA | 842 | CLA | C1-O2A-CGA | 2.85 | 123.93 | 116.44 |
| 12 | bA | 819 | CLA | CHC-C1C-C2C | -2.85 | 118.83 | 126.72 |
| 12 | aA | 814 | CLA | CMB-C2B-C3B | 2.85 | 130.02 | 124.68 |
| 12 | bB | 911 | CLA | O2D-CGD-O1D | -2.85 | 118.26 | 123.84 |
| 12 | bA | 807 | CLA | C1-C2-C3 | -2.85 | 121.11 | 126.04 |
| 12 | cB | 916 | CLA | CAC-C3C-C4C | 2.85 | 128.51 | 124.81 |
| 12 | aL | 204 | CLA | CAA-C2A-C3A | -2.85 | 104.97 | 112.78 |
| 12 | bB | 934 | CLA | C4C-C3C-C2C | -2.85 | 102.74 | 106.90 |
| 12 | aB | 905 | CLA | CED-O2D-CGD | 2.85 | 122.39 | 115.94 |
| 12 | cB | 912 | CLA | C3B-C4B-NB | 2.85 | 112.90 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 919 | CLA | C3B-C4B-NB | 2.85 | 112.90 | 109.21 |
| 12 | aB | 936 | CLA | CHC-C1C-C2C | -2.85 | 118.83 | 126.72 |
| 12 | cB | 933 | CLA | CAA-C2A-C3A | -2.85 | 104.97 | 112.78 |
| 12 | bB | 903 | CLA | CAA-C2A-C3A | -2.85 | 104.97 | 112.78 |
| 12 | aA | 807 | CLA | C1-C2-C3 | -2.85 | 121.11 | 126.04 |
| 12 | aA | 827 | CLA | O2D-CGD-O1D | -2.85 | 118.27 | 123.84 |
| 12 | bB | 905 | CLA | CED-O2D-CGD | 2.85 | 122.38 | 115.94 |
| 12 | cB | 910 | CLA | CAC-C3C-C4C | 2.85 | 128.51 | 124.81 |
| 12 | bB | 924 | CLA | CHC-C1C-C2C | -2.85 | 118.84 | 126.72 |
| 12 | bB | 936 | CLA | CHC-C1C-C2C | -2.85 | 118.85 | 126.72 |
| 12 | aB | 937 | CLA | CAA-C2A-C3A | -2.85 | 104.98 | 112.78 |
| 12 | cB | 937 | CLA | CAA-C2A-C3A | -2.85 | 104.98 | 112.78 |
| 12 | aB | 905 | CLA | CAC-C3C-C4C | 2.85 | 128.50 | 124.81 |
| 12 | aB | 903 | CLA | CAA-C2A-C3A | -2.85 | 104.98 | 112.78 |
| 12 | cA | 832 | CLA | C4-C3-C5 | 2.85 | 120.06 | 115.27 |
| 12 | cB | 907 | CLA | O2D-CGD-O1D | -2.85 | 118.28 | 123.84 |
| 12 | cA | 827 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 12 | bB | 911 | CLA | CHC-C1C-C2C | -2.84 | 118.86 | 126.72 |
| 12 | cB | 910 | CLA | O2D-CGD-O1D | -2.84 | 118.28 | 123.84 |
| 12 | cL | 204 | CLA | CAA-C2A-C3A | -2.84 | 104.99 | 112.78 |
| 15 | aJ | 101 | BCR | C7-C8-C9 | -2.84 | 121.94 | 126.23 |
| 12 | cB | 903 | CLA | CAA-C2A-C3A | -2.84 | 104.99 | 112.78 |
| 12 | bA | 842 | CLA | CHC-C1C-C2C | -2.84 | 118.86 | 126.72 |
| 12 | bB | 929 | CLA | CHD-C4C-NC | 2.84 | 128.68 | 124.20 |
| 12 | aB | 910 | CLA | CAC-C3C-C4C | 2.84 | 128.50 | 124.81 |
| 12 | bA | 832 | CLA | C4-C3-C5 | 2.84 | 120.05 | 115.27 |
| 12 | bA | 806 | CLA | C4A-NA-C1A | -2.84 | 105.43 | 106.71 |
| 12 | aB | 933 | CLA | CAA-C2A-C3A | -2.84 | 105.00 | 112.78 |
| 15 | cA | 846 | BCR | C29-C30-C25 | 2.84 | 114.85 | 110.48 |
| 12 | bA | 831 | CLA | C1-C2-C3 | -2.84 | 122.16 | 126.75 |
| 12 | bB | 917 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 12 | aA | 832 | CLA | C4C-C3C-C2C | -2.84 | 102.76 | 106.90 |
| 12 | cB | 911 | CLA | O2D-CGD-O1D | -2.84 | 118.29 | 123.84 |
| 12 | aA | 824 | CLA | CMB-C2B-C3B | 2.84 | 129.99 | 124.68 |
| 12 | bB | 926 | CLA | O2A-CGA-CBA | 2.84 | 120.81 | 111.91 |
| 12 | bB | 910 | CLA | CAC-C3C-C4C | 2.84 | 128.49 | 124.81 |
| 12 | cA | 809 | CLA | CHB-C4A-NA | 2.84 | 128.44 | 124.51 |
| 12 | bB | 949 | CLA | C1C-C2C-C3C | -2.84 | 103.97 | 106.96 |
| 12 | cB | 949 | CLA | C1C-C2C-C3C | -2.84 | 103.97 | 106.96 |
| 12 | cA | 842 | CLA | C1-O2A-CGA | 2.84 | 123.89 | 116.44 |
| 12 | aA | 802 | CLA | CHC-C1C-C2C | -2.84 | 118.87 | 126.72 |
| 12 | aA | 829 | CLA | C1-C2-C3 | -2.84 | 121.14 | 126.04 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 917 | CLA | CMC-C2C-C1C | 2.84 | 129.36 | 125.04 |
| 12 | cA | 802 | CLA | CHC-C1C-C2C | -2.84 | 118.88 | 126.72 |
| 12 | bA | 831 | CLA | CHB-C4A-NA | 2.84 | 128.43 | 124.51 |
| 12 | aA | 806 | CLA | C4A-NA-C1A | -2.84 | 105.43 | 106.71 |
| 12 | bA | 827 | CLA | O2D-CGD-O1D | -2.84 | 118.30 | 123.84 |
| 12 | cB | 916 | CLA | CHB-C4A-NA | 2.83 | 128.43 | 124.51 |
| 12 | aB | 917 | CLA | CMC-C2C-C1C | 2.83 | 129.36 | 125.04 |
| 12 | bL | 204 | CLA | CAA-C2A-C3A | -2.83 | 105.02 | 112.78 |
| 15 | aA | 847 | BCR | C29-C30-C25 | 2.83 | 114.84 | 110.48 |
| 12 | aB | 921 | CLA | C4C-C3C-C2C | -2.83 | 102.77 | 106.90 |
| 12 | cA | 834 | CLA | C3B-C4B-NB | 2.83 | 112.87 | 109.21 |
| 12 | bA | 843 | CLA | C4-C3-C5 | 2.83 | 120.03 | 115.27 |
| 12 | aB | 913 | CLA | CAA-C2A-C3A | -2.83 | 105.02 | 112.78 |
| 12 | bA | 814 | CLA | CMB-C2B-C3B | 2.83 | 129.98 | 124.68 |
| 15 | bA | 846 | BCR | C29-C30-C25 | 2.83 | 114.84 | 110.48 |
| 12 | aA | 834 | CLA | O2A-CGA-CBA | 2.83 | 120.79 | 111.91 |
| 12 | bA | 808 | CLA | C4C-C3C-C2C | -2.83 | 102.77 | 106.90 |
| 12 | cA | 814 | CLA | CMB-C2B-C3B | 2.83 | 129.97 | 124.68 |
| 12 | aB | 907 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 12 | aA | 817 | CLA | CMC-C2C-C1C | 2.83 | 129.35 | 125.04 |
| 15 | aA | 849 | BCR | C27-C26-C25 | 2.83 | 126.84 | 122.73 |
| 12 | cB | 904 | CLA | C4C-C3C-C2C | -2.83 | 102.77 | 106.90 |
| 15 | bI | 101 | BCR | C15-C16-C17 | -2.83 | 117.68 | 123.47 |
| 12 | bA | 813 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 12 | cB | 915 | CLA | O2A-CGA-CBA | 2.83 | 120.78 | 111.91 |
| 12 | bB | 912 | CLA | C3B-C4B-NB | 2.83 | 112.86 | 109.21 |
| 12 | cL | 203 | CLA | C4A-NA-C1A | -2.83 | 105.44 | 106.71 |
| 12 | bB | 907 | CLA | O2D-CGD-O1D | -2.83 | 118.31 | 123.84 |
| 12 | bB | 915 | CLA | O2A-CGA-CBA | 2.83 | 120.78 | 111.91 |
| 12 | aA | 834 | CLA | C3B-C4B-NB | 2.83 | 112.86 | 109.21 |
| 12 | cA | 832 | CLA | C4C-C3C-C2C | -2.83 | 102.78 | 106.90 |
| 12 | aA | 843 | CLA | C4-C3-C5 | 2.83 | 120.03 | 115.27 |
| 12 | aB | 926 | CLA | O2A-CGA-CBA | 2.83 | 120.78 | 111.91 |
| 12 | bA | 834 | CLA | O2A-CGA-CBA | 2.83 | 120.78 | 111.91 |
| 12 | aF | 202 | CLA | C4C-C3C-C2C | -2.83 | 102.78 | 106.90 |
| 12 | bF | 202 | CLA | C4C-C3C-C2C | -2.82 | 102.78 | 106.90 |
| 11 | bA | 801 | CL0 | C4A-NA-C1A | -2.82 | 105.44 | 106.71 |
| 12 | cA | 834 | CLA | O2A-CGA-CBA | 2.82 | 120.77 | 111.91 |
| 12 | aB | 929 | CLA | CHD-C4C-NC | 2.82 | 128.65 | 124.20 |
| 12 | cA | 802 | CLA | C4-C3-C5 | 2.82 | 120.02 | 115.27 |
| 12 | bB | 910 | CLA | C4C-C3C-C2C | -2.82 | 102.78 | 106.90 |
| 12 | bB | 917 | CLA | CMC-C2C-C1C | 2.82 | 129.34 | 125.04 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | aB | 946 | BCR | C16-C15-C14 | -2.82 | 117.69 | 123.47 |
| 12 | bA | 830 | CLA | CMB-C2B-C1B | -2.82 | 124.13 | 128.46 |
| 15 | cA | 848 | BCR | C27-C26-C25 | 2.82 | 126.83 | 122.73 |
| 12 | bA | 829 | CLA | C1-C2-C3 | -2.82 | 121.16 | 126.04 |
| 12 | aB | 904 | CLA | C4C-C3C-C2C | -2.82 | 102.79 | 106.90 |
| 12 | aB | 930 | CLA | O2D-CGD-O1D | -2.82 | 118.32 | 123.84 |
| 12 | cB | 917 | CLA | O2D-CGD-O1D | -2.82 | 118.32 | 123.84 |
| 12 | cB | 926 | CLA | O2A-CGA-CBA | 2.82 | 120.76 | 111.91 |
| 12 | cB | 925 | CLA | CMB-C2B-C3B | 2.82 | 129.95 | 124.68 |
| 12 | bB | 916 | CLA | CAC-C3C-C4C | 2.82 | 128.47 | 124.81 |
| 12 | aB | 915 | CLA | O2A-CGA-CBA | 2.82 | 120.75 | 111.91 |
| 13 | aB | 940 | 1L3 | C17-C16-C18 | 2.82 | 120.01 | 115.27 |
| 12 | aA | 839 | CLA | CHC-C1C-C2C | -2.82 | 118.92 | 126.72 |
| 15 | cB | 946 | BCR | C16-C15-C14 | -2.82 | 117.70 | 123.47 |
| 12 | aB | 911 | CLA | CHC-C1C-C2C | -2.82 | 118.92 | 126.72 |
| 12 | bB | 931 | CLA | CAC-C3C-C4C | 2.82 | 128.47 | 124.81 |
| 12 | bB | 913 | CLA | CAA-C2A-C3A | -2.82 | 105.06 | 112.78 |
| 12 | aA | 812 | CLA | C7-C6-C5 | -2.82 | 105.70 | 113.36 |
| 12 | bA | 839 | CLA | CHC-C1C-C2C | -2.82 | 118.93 | 126.72 |
| 12 | cB | 910 | CLA | C4C-C3C-C2C | -2.82 | 102.79 | 106.90 |
| 12 | aA | 805 | CLA | CAC-C3C-C4C | 2.82 | 128.47 | 124.81 |
| 12 | bA | 802 | CLA | CHC-C1C-C2C | -2.82 | 118.93 | 126.72 |
| 12 | bB | 910 | CLA | O2D-CGD-O1D | -2.82 | 118.33 | 123.84 |
| 12 | aB | 910 | CLA | C4C-C3C-C2C | -2.82 | 102.79 | 106.90 |
| 12 | bB | 912 | CLA | C4-C3-C5 | 2.82 | 120.01 | 115.27 |
| 12 | cA | 830 | CLA | CMB-C2B-C1B | -2.82 | 124.14 | 128.46 |
| 12 | aA | 827 | CLA | CHD-C4C-NC | 2.82 | 128.64 | 124.20 |
| 12 | bA | 827 | CLA | CHD-C4C-NC | 2.82 | 128.64 | 124.20 |
| 12 | cB | 931 | CLA | CAC-C3C-C4C | 2.82 | 128.46 | 124.81 |
| 12 | bA | 812 | CLA | C7-C6-C5 | -2.81 | 105.72 | 113.36 |
| 12 | cA | 812 | CLA | C7-C6-C5 | -2.81 | 105.72 | 113.36 |
| 12 | aA | 822 | CLA | O2A-CGA-CBA | 2.81 | 120.74 | 111.91 |
| 12 | bA | 822 | CLA | O2A-CGA-CBA | 2.81 | 120.74 | 111.91 |
| 12 | cB | 913 | CLA | CAA-C2A-C3A | -2.81 | 105.08 | 112.78 |
| 12 | aB | 917 | CLA | O2D-CGD-O1D | -2.81 | 118.34 | 123.84 |
| 12 | aB | 916 | CLA | CHB-C4A-NA | 2.81 | 128.40 | 124.51 |
| 12 | aB | 912 | CLA | C3B-C4B-NB | 2.81 | 112.84 | 109.21 |
| 12 | bB | 929 | CLA | CHC-C1C-C2C | -2.81 | 118.94 | 126.72 |
| 12 | cA | 827 | CLA | CHD-C4C-NC | 2.81 | 128.63 | 124.20 |
| 12 | cA | 839 | CLA | CHC-C1C-C2C | -2.81 | 118.95 | 126.72 |
| 12 | bB | 901 | CLA | CBC-CAC-C3C | -2.81 | 104.68 | 112.43 |
| 12 | cB | 911 | CLA | CHC-C1C-C2C | -2.81 | 118.95 | 126.72 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 802 | CLA | C4-C3-C5 | 2.81 | 120.00 | 115.27 |
| 12 | cA | 836 | CLA | CED-O2D-CGD | 2.81 | 122.29 | 115.94 |
| 12 | cB | 912 | CLA | C4-C3-C5 | 2.81 | 120.00 | 115.27 |
| 12 | aL | 204 | CLA | C4A-NA-C1A | -2.81 | 105.44 | 106.71 |
| 12 | bB | 919 | CLA | C4C-C3C-C2C | -2.81 | 102.80 | 106.90 |
| 15 | aA | 847 | BCR | C15-C14-C13 | -2.81 | 123.30 | 127.31 |
| 12 | cB | 929 | CLA | CHC-C1C-C2C | -2.81 | 118.96 | 126.72 |
| 12 | cL | 204 | CLA | C4A-NA-C1A | -2.81 | 105.44 | 106.71 |
| 12 | bB | 921 | CLA | CHC-C1C-C2C | -2.81 | 118.96 | 126.72 |
| 12 | bA | 832 | CLA | C4C-C3C-C2C | -2.81 | 102.81 | 106.90 |
| 15 | bA | 848 | BCR | C27-C26-C25 | 2.81 | 126.80 | 122.73 |
| 12 | aL | 202 | CLA | C4C-C3C-C2C | -2.80 | 102.81 | 106.90 |
| 12 | cF | 202 | CLA | C4C-C3C-C2C | -2.80 | 102.81 | 106.90 |
| 12 | aA | 803 | CLA | C1-O2A-CGA | 2.80 | 123.80 | 116.44 |
| 12 | aB | 929 | CLA | CHC-C1C-C2C | -2.80 | 118.96 | 126.72 |
| 12 | cA | 805 | CLA | CHD-C4C-NC | 2.80 | 128.62 | 124.20 |
| 12 | cB | 901 | CLA | CBC-CAC-C3C | -2.80 | 104.70 | 112.43 |
| 12 | bA | 803 | CLA | C1-O2A-CGA | 2.80 | 123.80 | 116.44 |
| 12 | cA | 829 | CLA | C1-C2-C3 | -2.80 | 121.19 | 126.04 |
| 12 | bB | 921 | CLA | C4C-C3C-C2C | -2.80 | 102.81 | 106.90 |
| 12 | aA | 808 | CLA | C4C-C3C-C2C | -2.80 | 102.81 | 106.90 |
| 12 | aB | 912 | CLA | C4-C3-C5 | 2.80 | 119.99 | 115.27 |
| 12 | aA | 804 | CLA | C4A-NA-C1A | -2.80 | 105.45 | 106.71 |
| 12 | aB | 921 | CLA | CHC-C1C-C2C | -2.80 | 118.97 | 126.72 |
| 12 | bA | 805 | CLA | CHD-C4C-NC | 2.80 | 128.62 | 124.20 |
| 12 | aB | 932 | CLA | CHD-C4C-NC | 2.80 | 128.62 | 124.20 |
| 12 | cB | 923 | CLA | CHD-C4C-NC | 2.80 | 128.62 | 124.20 |
| 12 | cF | 202 | CLA | CHC-C1C-C2C | -2.80 | 118.97 | 126.72 |
| 12 | cA | 808 | CLA | C4C-C3C-C2C | -2.80 | 102.81 | 106.90 |
| 12 | bB | 916 | CLA | O2D-CGD-O1D | -2.80 | 118.36 | 123.84 |
| 12 | bB | 930 | CLA | O2D-CGD-O1D | -2.80 | 118.36 | 123.84 |
| 12 | aF | 202 | CLA | CHC-C1C-C2C | -2.80 | 118.97 | 126.72 |
| 12 | bB | 904 | CLA | C4C-C3C-C2C | -2.80 | 102.81 | 106.90 |
| 12 | bF | 202 | CLA | CHC-C1C-C2C | -2.80 | 118.98 | 126.72 |
| 12 | aA | 832 | CLA | CMC-C2C-C1C | 2.80 | 129.30 | 125.04 |
| 12 | aB | 901 | CLA | CBC-CAC-C3C | -2.80 | 104.71 | 112.43 |
| 12 | bA | 813 | CLA | CHC-C1C-C2C | -2.80 | 118.98 | 126.72 |
| 12 | cA | 841 | CLA | CMC-C2C-C1C | 2.80 | 129.30 | 125.04 |
| 12 | cB | 929 | CLA | CHD-C4C-NC | 2.80 | 128.61 | 124.20 |
| 12 | cA | 824 | CLA | CMC-C2C-C1C | 2.80 | 129.30 | 125.04 |
| 12 | cA | 802 | CLA | CHA-C1A-NA | -2.80 | 119.99 | 126.40 |
| 12 | cB | 921 | CLA | C4C-C3C-C2C | -2.80 | 102.82 | 106.90 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 803 | CLA | C1-O2A-CGA | 2.80 | 123.78 | 116.44 |
| 15 | bB | 946 | BCR | C16-C15-C14 | -2.80 | 117.75 | 123.47 |
| 12 | aA | 830 | CLA | CMB-C2B-C1B | -2.80 | 124.17 | 128.46 |
| 12 | aB | 922 | CLA | CHC-C1C-C2C | -2.80 | 118.99 | 126.72 |
| 12 | bA | 836 | CLA | CED-O2D-CGD | 2.79 | 122.26 | 115.94 |
| 12 | aB | 910 | CLA | O2D-CGD-O1D | -2.79 | 118.38 | 123.84 |
| 12 | aB | 916 | CLA | CAC-C3C-C4C | 2.79 | 128.44 | 124.81 |
| 12 | bA | 831 | CLA | C4A-NA-C1A | -2.79 | 105.45 | 106.71 |
| 12 | cA | 839 | CLA | CHD-C4C-NC | 2.79 | 128.60 | 124.20 |
| 12 | bB | 914 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 12 | cB | 913 | CLA | CAC-C3C-C4C | 2.79 | 128.43 | 124.81 |
| 12 | aB | 949 | CLA | C1C-C2C-C3C | -2.79 | 104.02 | 106.96 |
| 12 | aA | 836 | CLA | CED-O2D-CGD | 2.79 | 122.25 | 115.94 |
| 12 | cB | 921 | CLA | CHC-C1C-C2C | -2.79 | 119.00 | 126.72 |
| 12 | cA | 813 | CLA | CHC-C1C-C2C | -2.79 | 119.00 | 126.72 |
| 12 | aB | 925 | CLA | CMB-C2B-C3B | 2.79 | 129.90 | 124.68 |
| 12 | bB | 919 | CLA | C3B-C4B-NB | 2.79 | 112.82 | 109.21 |
| 12 | cB | 922 | CLA | CHC-C1C-C2C | -2.79 | 119.00 | 126.72 |
| 12 | aB | 913 | CLA | CAC-C3C-C4C | 2.79 | 128.43 | 124.81 |
| 12 | aB | 901 | CLA | CHC-C1C-C2C | -2.79 | 119.01 | 126.72 |
| 12 | aB | 916 | CLA | O2D-CGD-O1D | -2.79 | 118.39 | 123.84 |
| 12 | bA | 823 | CLA | O2D-CGD-O1D | -2.79 | 118.39 | 123.84 |
| 12 | bB | 925 | CLA | CMB-C2B-C3B | 2.79 | 129.89 | 124.68 |
| 12 | bB | 916 | CLA | CHB-C4A-NA | 2.79 | 128.37 | 124.51 |
| 12 | bA | 834 | CLA | C3B-C4B-NB | 2.79 | 112.81 | 109.21 |
| 12 | cB | 932 | CLA | CHD-C4C-NC | 2.79 | 128.60 | 124.20 |
| 13 | cB | 940 | 1L3 | C17-C16-C18 | 2.79 | 119.96 | 115.27 |
| 12 | bL | 202 | CLA | C4C-C3C-C2C | -2.79 | 102.83 | 106.90 |
| 11 | cA | 801 | CL0 | C4A-NA-C1A | -2.79 | 105.45 | 106.71 |
| 12 | bA | 814 | CLA | C4A-NA-C1A | -2.79 | 105.45 | 106.71 |
| 12 | bB | 912 | CLA | C4A-NA-C1A | -2.79 | 105.45 | 106.71 |
| 12 | aA | 813 | CLA | CHC-C1C-C2C | -2.79 | 119.01 | 126.72 |
| 12 | aA | 805 | CLA | CHD-C4C-NC | 2.79 | 128.59 | 124.20 |
| 12 | aA | 823 | CLA | O2D-CGD-O1D | -2.78 | 118.39 | 123.84 |
| 12 | aA | 823 | CLA | CHD-C4C-NC | 2.78 | 128.59 | 124.20 |
| 12 | cL | 202 | CLA | C4C-C3C-C2C | -2.78 | 102.84 | 106.90 |
| 12 | bA | 802 | CLA | CHA-C1A-NA | -2.78 | 120.02 | 126.40 |
| 12 | bB | 922 | CLA | CHC-C1C-C2C | -2.78 | 119.02 | 126.72 |
| 12 | bB | 915 | CLA | CHC-C1C-C2C | -2.78 | 119.02 | 126.72 |
| 12 | bB | 932 | CLA | CHD-C4C-NC | 2.78 | 128.59 | 124.20 |
| 12 | cB | 930 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 12 | cA | 809 | CLA | C3B-C4B-NB | 2.78 | 112.81 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 917 | CLA | CMB-C2B-C3B | 2.78 | 129.88 | 124.68 |
| 12 | aA | 802 | CLA | CHA-C1A-NA | -2.78 | 120.03 | 126.40 |
| 12 | cA | 805 | CLA | CAC-C3C-C4C | 2.78 | 128.42 | 124.81 |
| 12 | aA | 824 | CLA | CMC-C2C-C1C | 2.78 | 129.28 | 125.04 |
| 12 | cB | 916 | CLA | O2D-CGD-O1D | -2.78 | 118.40 | 123.84 |
| 12 | bA | 820 | CLA | CAC-C3C-C4C | 2.78 | 128.42 | 124.81 |
| 12 | bB | 927 | CLA | CAC-C3C-C4C | 2.78 | 128.42 | 124.81 |
| 12 | aA | 805 | CLA | CHB-C4A-NA | 2.78 | 128.36 | 124.51 |
| 12 | cA | 822 | CLA | O2A-CGA-CBA | 2.78 | 120.63 | 111.91 |
| 12 | aB | 919 | CLA | C3B-C4B-NB | 2.78 | 112.80 | 109.21 |
| 12 | aB | 919 | CLA | C4C-C3C-C2C | -2.78 | 102.85 | 106.90 |
| 12 | bA | 832 | CLA | CMC-C2C-C1C | 2.78 | 129.27 | 125.04 |
| 12 | aA | 806 | CLA | C4C-C3C-C2C | -2.78 | 102.85 | 106.90 |
| 12 | cA | 818 | CLA | CHD-C4C-NC | 2.78 | 128.58 | 124.20 |
| 12 | aB | 927 | CLA | CAC-C3C-C4C | 2.78 | 128.41 | 124.81 |
| 12 | bB | 917 | CLA | CMB-C2B-C3B | 2.78 | 129.87 | 124.68 |
| 12 | bA | 814 | CLA | CHB-C4A-NA | 2.78 | 128.35 | 124.51 |
| 12 | aA | 809 | CLA | C3B-C4B-NB | 2.78 | 112.80 | 109.21 |
| 12 | cB | 927 | CLA | CAC-C3C-C4C | 2.78 | 128.41 | 124.81 |
| 12 | aB | 901 | CLA | CMC-C2C-C1C | 2.78 | 129.27 | 125.04 |
| 12 | bA | 820 | CLA | C6-C5-C3 | 2.78 | 120.73 | 113.45 |
| 13 | bB | 940 | 1L3 | C17-C16-C18 | 2.78 | 119.94 | 115.27 |
| 12 | cB | 901 | CLA | CHC-C1C-C2C | -2.77 | 119.05 | 126.72 |
| 12 | bB | 931 | CLA | C1-C2-C3 | -2.77 | 121.24 | 126.04 |
| 12 | cA | 823 | CLA | CHD-C4C-NC | 2.77 | 128.57 | 124.20 |
| 12 | bA | 805 | CLA | CAC-C3C-C4C | 2.77 | 128.41 | 124.81 |
| 12 | aA | 832 | CLA | C1-O2A-CGA | 2.77 | 123.72 | 116.44 |
| 12 | cA | 820 | CLA | C6-C5-C3 | 2.77 | 120.73 | 113.45 |
| 12 | bA | 832 | CLA | C1-O2A-CGA | 2.77 | 123.72 | 116.44 |
| 12 | aA | 818 | CLA | CHD-C4C-NC | 2.77 | 128.57 | 124.20 |
| 12 | aA | 820 | CLA | CAC-C3C-C4C | 2.77 | 128.41 | 124.81 |
| 12 | aB | 915 | CLA | CHC-C1C-C2C | -2.77 | 119.06 | 126.72 |
| 12 | cA | 823 | CLA | O2D-CGD-O1D | -2.77 | 118.42 | 123.84 |
| 12 | cB | 926 | CLA | C1-C2-C3 | -2.77 | 121.25 | 126.04 |
| 12 | bB | 901 | CLA | CHC-C1C-C2C | -2.77 | 119.06 | 126.72 |
| 12 | bL | 204 | CLA | CHC-C1C-C2C | -2.77 | 119.06 | 126.72 |
| 12 | bA | 818 | CLA | CHD-C4C-NC | 2.77 | 128.57 | 124.20 |
| 12 | bL | 204 | CLA | CMC-C2C-C1C | 2.77 | 129.26 | 125.04 |
| 12 | aB | 913 | CLA | CHC-C1C-C2C | -2.77 | 119.06 | 126.72 |
| 12 | bB | 926 | CLA | C1-C2-C3 | -2.77 | 121.26 | 126.04 |
| 13 | aB | 940 | 1L3 | C19-C20-C21 | -2.77 | 121.00 | 127.66 |
| 12 | aA | 831 | CLA | CHD-C4C-NC | 2.77 | 128.56 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 919 | CLA | C4C-C3C-C2C | -2.77 | 102.86 | 106.90 |
| 12 | cB | 914 | CLA | CMB-C2B-C3B | 2.77 | 129.85 | 124.68 |
| 12 | aA | 838 | CLA | CHD-C4C-NC | 2.77 | 128.56 | 124.20 |
| 12 | aB | 917 | CLA | CMB-C2B-C3B | 2.77 | 129.85 | 124.68 |
| 12 | bB | 933 | CLA | CHD-C4C-NC | 2.77 | 128.56 | 124.20 |
| 12 | cB | 903 | CLA | CHD-C4C-NC | 2.77 | 128.56 | 124.20 |
| 12 | cL | 204 | CLA | CMC-C2C-C1C | 2.77 | 129.25 | 125.04 |
| 12 | cA | 831 | CLA | C4A-NA-C1A | -2.76 | 105.46 | 106.71 |
| 12 | aB | 923 | CLA | CHD-C4C-NC | 2.76 | 128.56 | 124.20 |
| 12 | cA | 831 | CLA | CHD-C4C-NC | 2.76 | 128.56 | 124.20 |
| 12 | bB | 913 | CLA | CAC-C3C-C4C | 2.76 | 128.40 | 124.81 |
| 13 | cB | 940 | 1L3 | C19-C20-C21 | -2.76 | 121.00 | 127.66 |
| 12 | bA | 823 | CLA | CHD-C4C-NC | 2.76 | 128.56 | 124.20 |
| 12 | cA | 820 | CLA | CAC-C3C-C4C | 2.76 | 128.40 | 124.81 |
| 12 | cA | 832 | CLA | C1-O2A-CGA | 2.76 | 123.69 | 116.44 |
| 15 | aI | 101 | BCR | C38-C26-C27 | -2.76 | 108.31 | 113.62 |
| 12 | bA | 824 | CLA | CMC-C2C-C1C | 2.76 | 129.25 | 125.04 |
| 12 | cA | 826 | CLA | C4C-C3C-C2C | -2.76 | 102.87 | 106.90 |
| 12 | bA | 808 | CLA | CAC-C3C-C4C | 2.76 | 128.39 | 124.81 |
| 12 | cB | 922 | CLA | CHD-C4C-NC | 2.76 | 128.56 | 124.20 |
| 12 | cA | 823 | CLA | CHC-C1C-C2C | -2.76 | 119.08 | 126.72 |
| 12 | cB | 915 | CLA | CHC-C1C-C2C | -2.76 | 119.08 | 126.72 |
| 12 | bA | 823 | CLA | CHC-C1C-C2C | -2.76 | 119.08 | 126.72 |
| 15 | bL | 205 | BCR | C2-C1-C6 | 2.76 | 114.73 | 110.48 |
| 12 | cA | 832 | CLA | CMC-C2C-C1C | 2.76 | 129.24 | 125.04 |
| 12 | aA | 823 | CLA | CHC-C1C-C2C | -2.76 | 119.09 | 126.72 |
| 12 | aB | 931 | CLA | C1-C2-C3 | -2.76 | 121.27 | 126.04 |
| 12 | bB | 903 | CLA | CHD-C4C-NC | 2.76 | 128.55 | 124.20 |
| 12 | cB | 926 | CLA | C4-C3-C5 | 2.76 | 119.91 | 115.27 |
| 12 | cL | 204 | CLA | CHC-C1C-C2C | -2.76 | 119.09 | 126.72 |
| 12 | bA | 839 | CLA | CHD-C4C-NC | 2.76 | 128.55 | 124.20 |
| 15 | cI | 101 | BCR | C38-C26-C27 | -2.76 | 108.32 | 113.62 |
| 13 | bB | 940 | 1L3 | C19-C20-C21 | -2.76 | 121.02 | 127.66 |
| 12 | cB | 926 | CLA | CHD-C4C-NC | 2.76 | 128.55 | 124.20 |
| 12 | bA | 804 | CLA | C4A-NA-C1A | -2.76 | 105.47 | 106.71 |
| 11 | aA | 801 | CL0 | CMC-C2C-C1C | 2.76 | 129.24 | 125.04 |
| 15 | aB | 945 | BCR | C11-C10-C9 | -2.76 | 123.37 | 127.31 |
| 12 | aA | 854 | CLA | CHA-C1A-NA | -2.76 | 120.08 | 126.40 |
| 12 | cA | 814 | CLA | CHB-C4A-NA | 2.76 | 128.32 | 124.51 |
| 11 | bA | 801 | CL0 | CMC-C2C-C1C | 2.76 | 129.24 | 125.04 |
| 12 | bA | 831 | CLA | CHD-C4C-NC | 2.76 | 128.55 | 124.20 |
| 15 | bA | 846 | BCR | C15-C14-C13 | -2.76 | 123.38 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 909 | CLA | O2D-CGD-CBD | 2.76 | 116.17 | 111.27 |
| 12 | bA | 804 | CLA | CHC-C1C-C2C | -2.76 | 119.10 | 126.72 |
| 12 | bA | 822 | CLA | CHC-C1C-C2C | -2.76 | 119.10 | 126.72 |
| 12 | cB | 913 | CLA | CHC-C1C-C2C | -2.76 | 119.10 | 126.72 |
| 12 | aB | 926 | CLA | C1-C2-C3 | -2.76 | 121.28 | 126.04 |
| 15 | cB | 945 | BCR | C11-C10-C9 | -2.75 | 123.38 | 127.31 |
| 15 | aL | 205 | BCR | C2-C1-C6 | 2.75 | 114.72 | 110.48 |
| 12 | aB | 933 | CLA | CHD-C4C-NC | 2.75 | 128.54 | 124.20 |
| 12 | bB | 922 | CLA | CHD-C4C-NC | 2.75 | 128.54 | 124.20 |
| 15 | bB | 945 | BCR | C11-C10-C9 | -2.75 | 123.38 | 127.31 |
| 12 | bA | 805 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 12 | aA | 831 | CLA | C4A-NA-C1A | -2.75 | 105.47 | 106.71 |
| 12 | cA | 805 | CLA | CHB-C4A-NA | 2.75 | 128.32 | 124.51 |
| 12 | aB | 914 | CLA | CMB-C2B-C3B | 2.75 | 129.82 | 124.68 |
| 12 | bL | 204 | CLA | C4A-NA-C1A | -2.75 | 105.47 | 106.71 |
| 12 | bB | 913 | CLA | CHC-C1C-C2C | -2.75 | 119.12 | 126.72 |
| 12 | aA | 839 | CLA | CHD-C4C-NC | 2.75 | 128.53 | 124.20 |
| 12 | bA | 809 | CLA | C3B-C4B-NB | 2.75 | 112.76 | 109.21 |
| 12 | cB | 933 | CLA | CHD-C4C-NC | 2.75 | 128.53 | 124.20 |
| 12 | aB | 922 | CLA | CHD-C4C-NC | 2.75 | 128.53 | 124.20 |
| 12 | bA | 843 | CLA | C4C-C3C-C2C | -2.75 | 102.89 | 106.90 |
| 15 | bI | 101 | BCR | C38-C26-C27 | -2.75 | 108.34 | 113.62 |
| 15 | cA | 846 | BCR | C15-C14-C13 | -2.75 | 123.39 | 127.31 |
| 12 | aA | 820 | CLA | C6-C5-C3 | 2.75 | 120.65 | 113.45 |
| 12 | cB | 926 | CLA | CMC-C2C-C1C | 2.74 | 129.22 | 125.04 |
| 12 | aB | 909 | CLA | O2D-CGD-CBD | 2.74 | 116.14 | 111.27 |
| 12 | cB | 909 | CLA | O2D-CGD-CBD | 2.74 | 116.14 | 111.27 |
| 12 | aB | 932 | CLA | CAA-CBA-CGA | -2.74 | 105.23 | 112.51 |
| 12 | aA | 854 | CLA | CMC-C2C-C1C | 2.74 | 129.22 | 125.04 |
| 12 | bA | 853 | CLA | CMC-C2C-C1C | 2.74 | 129.22 | 125.04 |
| 12 | aL | 204 | CLA | CHC-C1C-C2C | -2.74 | 119.14 | 126.72 |
| 12 | cA | 804 | CLA | CHC-C1C-C2C | -2.74 | 119.14 | 126.72 |
| 12 | bA | 841 | CLA | CMC-C2C-C1C | 2.74 | 129.22 | 125.04 |
| 12 | cB | 908 | CLA | CMC-C2C-C1C | 2.74 | 129.22 | 125.04 |
| 12 | aB | 903 | CLA | CHD-C4C-NC | 2.74 | 128.52 | 124.20 |
| 11 | cA | 801 | CL0 | CMC-C2C-C1C | 2.74 | 129.21 | 125.04 |
| 12 | cA | 853 | CLA | CHA-C1A-NA | -2.74 | 120.13 | 126.40 |
| 12 | cB | 912 | CLA | CHC-C1C-C2C | -2.74 | 119.15 | 126.72 |
| 12 | aB | 925 | CLA | O2A-CGA-CBA | 2.74 | 120.50 | 111.91 |
| 12 | aA | 826 | CLA | C4C-C3C-C2C | -2.74 | 102.91 | 106.90 |
| 12 | bA | 806 | CLA | C4C-C3C-C2C | -2.74 | 102.91 | 106.90 |
| 12 | cB | 932 | CLA | CAA-CBA-CGA | -2.74 | 105.24 | 112.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 938 | CLA | CHC-C1C-C2C | -2.74 | 119.15 | 126.72 |
| 12 | bB | 912 | CLA | CHC-C1C-C2C | -2.74 | 119.15 | 126.72 |
| 12 | bB | 938 | CLA | CHC-C1C-C2C | -2.74 | 119.15 | 126.72 |
| 12 | cA | 838 | CLA | CHD-C4C-NC | 2.74 | 128.51 | 124.20 |
| 12 | aB | 907 | CLA | CBC-CAC-C3C | -2.74 | 104.89 | 112.43 |
| 12 | bA | 826 | CLA | C4C-C3C-C2C | -2.74 | 102.91 | 106.90 |
| 12 | aA | 822 | CLA | CHC-C1C-C2C | -2.74 | 119.16 | 126.72 |
| 12 | cB | 938 | CLA | CHC-C1C-C2C | -2.73 | 119.16 | 126.72 |
| 12 | bL | 202 | CLA | O2A-CGA-O1A | -2.73 | 116.69 | 123.59 |
| 12 | aA | 808 | CLA | CAC-C3C-C4C | 2.73 | 128.36 | 124.81 |
| 15 | bB | 946 | BCR | C27-C26-C25 | 2.73 | 126.70 | 122.73 |
| 12 | aA | 826 | CLA | CHC-C1C-C2C | -2.73 | 119.16 | 126.72 |
| 12 | bA | 853 | CLA | CHA-C1A-NA | -2.73 | 120.14 | 126.40 |
| 12 | aB | 932 | CLA | CAA-C2A-C1A | -2.73 | 103.02 | 111.97 |
| 12 | cL | 202 | CLA | O2A-CGA-O1A | -2.73 | 116.70 | 123.59 |
| 12 | cA | 822 | CLA | CHC-C1C-C2C | -2.73 | 119.16 | 126.72 |
| 12 | aB | 926 | CLA | C4-C3-C5 | 2.73 | 119.87 | 115.27 |
| 12 | cB | 904 | CLA | CHC-C1C-C2C | -2.73 | 119.17 | 126.72 |
| 12 | cB | 931 | CLA | C1-C2-C3 | -2.73 | 121.32 | 126.04 |
| 12 | bA | 835 | CLA | CHC-C1C-C2C | -2.73 | 119.17 | 126.72 |
| 12 | cA | 843 | CLA | C4C-C3C-C2C | -2.73 | 102.92 | 106.90 |
| 12 | aL | 202 | CLA | O2A-CGA-O1A | -2.73 | 116.70 | 123.59 |
| 12 | bA | 815 | CLA | CMB-C2B-C3B | 2.73 | 129.79 | 124.68 |
| 12 | aA | 810 | CLA | CHC-C1C-C2C | -2.73 | 119.17 | 126.72 |
| 12 | aB | 913 | CLA | CMB-C2B-C3B | 2.73 | 129.78 | 124.68 |
| 12 | bB | 925 | CLA | O2A-CGA-CBA | 2.73 | 120.47 | 111.91 |
| 12 | bB | 932 | CLA | CAA-C2A-C1A | -2.73 | 103.03 | 111.97 |
| 12 | cB | 932 | CLA | CAA-C2A-C1A | -2.73 | 103.03 | 111.97 |
| 12 | bB | 903 | CLA | CHC-C1C-C2C | -2.73 | 119.17 | 126.72 |
| 12 | bB | 923 | CLA | CMB-C2B-C3B | 2.73 | 129.78 | 124.68 |
| 12 | aA | 804 | CLA | CHC-C1C-C2C | -2.73 | 119.18 | 126.72 |
| 12 | aB | 904 | CLA | CHC-C1C-C2C | -2.73 | 119.18 | 126.72 |
| 12 | bB | 926 | CLA | C4-C3-C5 | 2.73 | 119.86 | 115.27 |
| 12 | aA | 836 | CLA | C4A-NA-C1A | -2.73 | 105.48 | 106.71 |
| 12 | bB | 917 | CLA | CHD-C4C-NC | 2.73 | 128.50 | 124.20 |
| 12 | cB | 925 | CLA | O2A-CGA-CBA | 2.73 | 120.46 | 111.91 |
| 12 | cA | 808 | CLA | CAC-C3C-C4C | 2.73 | 128.35 | 124.81 |
| 12 | cB | 923 | CLA | CMB-C2B-C3B | 2.73 | 129.78 | 124.68 |
| 12 | aB | 908 | CLA | CMC-C2C-C1C | 2.73 | 129.19 | 125.04 |
| 12 | bA | 809 | CLA | CMC-C2C-C1C | 2.73 | 129.19 | 125.04 |
| 12 | cA | 853 | CLA | CMC-C2C-C1C | 2.73 | 129.19 | 125.04 |
| 12 | aB | 917 | CLA | CHD-C4C-NC | 2.73 | 128.50 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 806 | CLA | C4C-C3C-C2C | -2.73 | 102.92 | 106.90 |
| 12 | bB | 901 | CLA | CMC-C2C-C1C | 2.73 | 129.19 | 125.04 |
| 12 | bB | 927 | CLA | CMC-C2C-C1C | 2.73 | 129.19 | 125.04 |
| 12 | bA | 810 | CLA | CHC-C1C-C2C | -2.72 | 119.18 | 126.72 |
| 12 | aB | 919 | CLA | CHD-C4C-NC | 2.72 | 128.50 | 124.20 |
| 11 | aA | 801 | CL0 | C4A-NA-C1A | -2.72 | 105.48 | 106.71 |
| 12 | bB | 934 | CLA | O2D-CGD-O1D | -2.72 | 118.51 | 123.84 |
| 12 | aA | 841 | CLA | CMC-C2C-C1C | 2.72 | 129.19 | 125.04 |
| 15 | cL | 205 | BCR | C2-C1-C6 | 2.72 | 114.67 | 110.48 |
| 12 | aA | 809 | CLA | CMC-C2C-C1C | 2.72 | 129.19 | 125.04 |
| 12 | bB | 908 | CLA | CMC-C2C-C1C | 2.72 | 129.18 | 125.04 |
| 12 | aB | 903 | CLA | CHC-C1C-C2C | -2.72 | 119.19 | 126.72 |
| 12 | aB | 912 | CLA | CHC-C1C-C2C | -2.72 | 119.19 | 126.72 |
| 12 | aB | 938 | CLA | CMC-C2C-C1C | 2.72 | 129.18 | 125.04 |
| 12 | cA | 817 | CLA | C1-O2A-CGA | 2.72 | 123.58 | 116.44 |
| 12 | bB | 923 | CLA | CHD-C4C-NC | 2.72 | 128.49 | 124.20 |
| 12 | cA | 810 | CLA | CHC-C1C-C2C | -2.72 | 119.20 | 126.72 |
| 12 | aB | 926 | CLA | CMC-C2C-C1C | 2.72 | 129.18 | 125.04 |
| 12 | aB | 923 | CLA | CMB-C2B-C3B | 2.72 | 129.77 | 124.68 |
| 12 | aL | 204 | CLA | CMC-C2C-C1C | 2.72 | 129.18 | 125.04 |
| 12 | cB | 901 | CLA | CMC-C2C-C1C | 2.72 | 129.18 | 125.04 |
| 12 | bB | 904 | CLA | CHC-C1C-C2C | -2.72 | 119.20 | 126.72 |
| 12 | bB | 926 | CLA | CMC-C2C-C1C | 2.72 | 129.18 | 125.04 |
| 12 | cA | 835 | CLA | CHC-C1C-C2C | -2.72 | 119.20 | 126.72 |
| 12 | cA | 815 | CLA | CMB-C2B-C3B | 2.72 | 129.76 | 124.68 |
| 12 | bB | 919 | CLA | CHD-C4C-NC | 2.72 | 128.49 | 124.20 |
| 12 | cB | 907 | CLA | CBC-CAC-C3C | -2.72 | 104.94 | 112.43 |
| 12 | cB | 913 | CLA | CMB-C2B-C3B | 2.72 | 129.76 | 124.68 |
| 12 | cA | 803 | CLA | CHC-C1C-C2C | -2.72 | 119.21 | 126.72 |
| 12 | cB | 917 | CLA | CHD-C4C-NC | 2.72 | 128.48 | 124.20 |
| 12 | bB | 907 | CLA | CBC-CAC-C3C | -2.72 | 104.94 | 112.43 |
| 12 | aB | 925 | CLA | C3B-C4B-NB | 2.72 | 112.72 | 109.21 |
| 12 | aA | 813 | CLA | CAC-C3C-C4C | 2.72 | 128.33 | 124.81 |
| 12 | aA | 843 | CLA | C4C-C3C-C2C | -2.72 | 102.94 | 106.90 |
| 12 | cA | 828 | CLA | O2A-CGA-CBA | 2.72 | 120.43 | 111.91 |
| 12 | aB | 934 | CLA | O2D-CGD-O1D | -2.71 | 118.53 | 123.84 |
| 12 | bB | 932 | CLA | CAA-CBA-CGA | -2.71 | 105.30 | 112.51 |
| 12 | aB | 927 | CLA | CMC-C2C-C1C | 2.71 | 129.17 | 125.04 |
| 12 | cA | 825 | CLA | CMC-C2C-C1C | 2.71 | 129.17 | 125.04 |
| 12 | bA | 813 | CLA | CAC-C3C-C4C | 2.71 | 128.33 | 124.81 |
| 12 | bA | 817 | CLA | C1-O2A-CGA | 2.71 | 123.56 | 116.44 |
| 12 | aA | 814 | CLA | CHB-C4A-NA | 2.71 | 128.26 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 903 | CLA | CHC-C1C-C2C | -2.71 | 119.22 | 126.72 |
| 12 | bA | 838 | CLA | CHD-C4C-NC | 2.71 | 128.47 | 124.20 |
| 12 | cA | 813 | CLA | CAC-C3C-C4C | 2.71 | 128.33 | 124.81 |
| 12 | aB | 916 | CLA | O2A-CGA-O1A | -2.71 | 116.75 | 123.59 |
| 12 | cB | 927 | CLA | CMC-C2C-C1C | 2.71 | 129.16 | 125.04 |
| 12 | aA | 815 | CLA | CMB-C2B-C3B | 2.71 | 129.75 | 124.68 |
| 12 | bA | 825 | CLA | CMC-C2C-C1C | 2.71 | 129.16 | 125.04 |
| 12 | cA | 826 | CLA | CHC-C1C-C2C | -2.71 | 119.23 | 126.72 |
| 12 | cB | 919 | CLA | CHD-C4C-NC | 2.71 | 128.47 | 124.20 |
| 12 | aA | 828 | CLA | O2A-CGA-CBA | 2.71 | 120.40 | 111.91 |
| 12 | cB | 917 | CLA | C4-C3-C5 | 2.71 | 119.83 | 115.27 |
| 12 | aB | 912 | CLA | C4A-NA-C1A | -2.71 | 105.49 | 106.71 |
| 15 | aB | 946 | BCR | C27-C26-C25 | 2.71 | 126.66 | 122.73 |
| 12 | cA | 832 | CLA | CHC-C1C-C2C | -2.71 | 119.24 | 126.72 |
| 12 | cA | 842 | CLA | CHD-C4C-NC | 2.70 | 128.47 | 124.20 |
| 12 | aA | 817 | CLA | C1-O2A-CGA | 2.70 | 123.54 | 116.44 |
| 12 | aB | 917 | CLA | C4-C3-C5 | 2.70 | 119.82 | 115.27 |
| 12 | aA | 821 | CLA | C3B-C4B-NB | 2.70 | 112.71 | 109.21 |
| 12 | bA | 826 | CLA | CHC-C1C-C2C | -2.70 | 119.24 | 126.72 |
| 12 | bA | 820 | CLA | CHD-C4C-NC | 2.70 | 128.46 | 124.20 |
| 12 | bA | 825 | CLA | CHD-C4C-NC | 2.70 | 128.46 | 124.20 |
| 12 | bB | 938 | CLA | CMC-C2C-C1C | 2.70 | 129.16 | 125.04 |
| 12 | cA | 842 | CLA | CMC-C2C-C1C | 2.70 | 129.16 | 125.04 |
| 12 | aA | 835 | CLA | CHC-C1C-C2C | -2.70 | 119.24 | 126.72 |
| 12 | cA | 809 | CLA | CMC-C2C-C1C | 2.70 | 129.16 | 125.04 |
| 12 | aB | 902 | CLA | O2A-CGA-CBA | 2.70 | 120.39 | 111.91 |
| 12 | bB | 913 | CLA | CMB-C2B-C3B | 2.70 | 129.73 | 124.68 |
| 12 | cB | 935 | CLA | CHC-C1C-C2C | -2.70 | 119.25 | 126.72 |
| 12 | cB | 934 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 12 | bA | 842 | CLA | CHD-C4C-NC | 2.70 | 128.46 | 124.20 |
| 12 | bA | 803 | CLA | CHC-C1C-C2C | -2.70 | 119.25 | 126.72 |
| 12 | aA | 832 | CLA | CHC-C1C-C2C | -2.70 | 119.26 | 126.72 |
| 12 | cA | 806 | CLA | C4A-NA-C1A | -2.70 | 105.49 | 106.71 |
| 12 | aA | 828 | CLA | O2D-CGD-O1D | -2.70 | 118.56 | 123.84 |
| 12 | bA | 842 | CLA | CMC-C2C-C1C | 2.70 | 129.15 | 125.04 |
| 12 | cB | 905 | CLA | CAA-C2A-C3A | -2.70 | 105.39 | 112.78 |
| 12 | aA | 842 | CLA | CMC-C2C-C1C | 2.70 | 129.15 | 125.04 |
| 12 | aA | 820 | CLA | CHD-C4C-NC | 2.70 | 128.45 | 124.20 |
| 12 | aA | 803 | CLA | CHC-C1C-C2C | -2.70 | 119.26 | 126.72 |
| 12 | bB | 902 | CLA | O2A-CGA-CBA | 2.70 | 120.37 | 111.91 |
| 12 | bB | 916 | CLA | O2A-CGA-O1A | -2.70 | 116.79 | 123.59 |
| 12 | bB | 905 | CLA | CAA-C2A-C3A | -2.70 | 105.40 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 809 | CLA | CHD-C4C-NC | 2.69 | 128.45 | 124.20 |
| 12 | bB | 935 | CLA | CHC-C1C-C2C | -2.69 | 119.27 | 126.72 |
| 12 | bA | 810 | CLA | CMC-C2C-C1C | 2.69 | 129.14 | 125.04 |
| 12 | cA | 821 | CLA | C3B-C4B-NB | 2.69 | 112.69 | 109.21 |
| 12 | bA | 828 | CLA | O2A-CGA-CBA | 2.69 | 120.36 | 111.91 |
| 12 | bA | 821 | CLA | C3B-C4B-NB | 2.69 | 112.69 | 109.21 |
| 12 | aB | 902 | CLA | C4-C3-C5 | 2.69 | 119.80 | 115.27 |
| 12 | cB | 902 | CLA | O2A-CGA-CBA | 2.69 | 120.35 | 111.91 |
| 12 | cA | 811 | CLA | CHD-C4C-NC | 2.69 | 128.44 | 124.20 |
| 12 | cA | 828 | CLA | O2D-CGD-O1D | -2.69 | 118.58 | 123.84 |
| 12 | aB | 916 | CLA | CMC-C2C-C1C | 2.69 | 129.13 | 125.04 |
| 12 | bA | 828 | CLA | O2D-CGD-O1D | -2.69 | 118.58 | 123.84 |
| 12 | aA | 834 | CLA | C1-C2-C3 | -2.69 | 121.39 | 126.04 |
| 12 | aB | 926 | CLA | CHC-C1C-C2C | -2.69 | 119.28 | 126.72 |
| 15 | aB | 942 | BCR | C29-C30-C25 | 2.69 | 114.62 | 110.48 |
| 12 | aB | 935 | CLA | CHC-C1C-C2C | -2.69 | 119.28 | 126.72 |
| 12 | bA | 832 | CLA | CHC-C1C-C2C | -2.69 | 119.28 | 126.72 |
| 12 | cB | 926 | CLA | CHC-C1C-C2C | -2.69 | 119.29 | 126.72 |
| 15 | aI | 101 | BCR | C3-C4-C5 | -2.69 | 109.28 | 114.08 |
| 12 | bB | 917 | CLA | C4-C3-C5 | 2.69 | 119.79 | 115.27 |
| 12 | cB | 906 | CLA | CAC-C3C-C4C | 2.68 | 128.29 | 124.81 |
| 12 | aA | 827 | CLA | CHC-C1C-C2C | -2.68 | 119.30 | 126.72 |
| 15 | bI | 101 | BCR | C3-C4-C5 | -2.68 | 109.29 | 114.08 |
| 12 | aB | 905 | CLA | CAA-C2A-C3A | -2.68 | 105.43 | 112.78 |
| 12 | bA | 827 | CLA | CHC-C1C-C2C | -2.68 | 119.30 | 126.72 |
| 13 | cB | 940 | 1L3 | C24-C25-C26 | -2.68 | 121.20 | 127.66 |
| 12 | bL | 203 | CLA | CMC-C2C-C1C | 2.68 | 129.12 | 125.04 |
| 12 | cB | 938 | CLA | CMC-C2C-C1C | 2.68 | 129.12 | 125.04 |
| 12 | cA | 820 | CLA | CHD-C4C-NC | 2.68 | 128.43 | 124.20 |
| 12 | aB | 920 | CLA | CHC-C1C-C2C | -2.68 | 119.31 | 126.72 |
| 12 | bA | 836 | CLA | C4A-NA-C1A | -2.68 | 105.50 | 106.71 |
| 12 | bA | 819 | CLA | CHD-C4C-NC | 2.68 | 128.43 | 124.20 |
| 12 | aL | 203 | CLA | CBC-CAC-C3C | -2.68 | 105.05 | 112.43 |
| 13 | aB | 940 | 1L3 | C24-C25-C26 | -2.68 | 121.21 | 127.66 |
| 12 | aA | 825 | CLA | CMC-C2C-C1C | 2.68 | 129.12 | 125.04 |
| 12 | aB | 926 | CLA | CHD-C4C-NC | 2.68 | 128.42 | 124.20 |
| 12 | cA | 819 | CLA | CHD-C4C-NC | 2.68 | 128.42 | 124.20 |
| 12 | cB | 902 | CLA | C4-C3-C5 | 2.68 | 119.78 | 115.27 |
| 12 | cA | 809 | CLA | CMB-C2B-C3B | 2.68 | 129.69 | 124.68 |
| 12 | aB | 929 | CLA | C3B-C4B-NB | 2.68 | 112.67 | 109.21 |
| 12 | bB | 926 | CLA | CHD-C4C-NC | 2.68 | 128.42 | 124.20 |
| 12 | cA | 827 | CLA | CHC-C1C-C2C | -2.68 | 119.32 | 126.72 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 809 | CLA | CMB-C2B-C3B | 2.68 | 129.68 | 124.68 |
| 12 | bB | 925 | CLA | C3B-C4B-NB | 2.68 | 112.67 | 109.21 |
| 12 | bB | 926 | CLA | CHC-C1C-C2C | -2.68 | 119.32 | 126.72 |
| 13 | bB | 940 | 1L3 | C24-C25-C26 | -2.68 | 121.22 | 127.66 |
| 12 | bA | 819 | CLA | C1-C2-C3 | -2.68 | 121.42 | 126.04 |
| 12 | bA | 834 | CLA | C1-C2-C3 | -2.68 | 121.42 | 126.04 |
| 12 | aA | 842 | CLA | CHD-C4C-NC | 2.67 | 128.42 | 124.20 |
| 12 | bA | 811 | CLA | CHD-C4C-NC | 2.67 | 128.42 | 124.20 |
| 12 | aA | 811 | CLA | CHD-C4C-NC | 2.67 | 128.42 | 124.20 |
| 15 | cB | 944 | BCR | C27-C26-C25 | 2.67 | 126.61 | 122.73 |
| 12 | bB | 949 | CLA | CMA-C3A-C2A | -2.67 | 109.86 | 116.10 |
| 12 | cB | 912 | CLA | C4A-NA-C1A | -2.67 | 105.50 | 106.71 |
| 12 | aA | 809 | CLA | CMB-C2B-C3B | 2.67 | 129.68 | 124.68 |
| 12 | aL | 203 | CLA | CMC-C2C-C1C | 2.67 | 129.11 | 125.04 |
| 12 | cB | 904 | CLA | CMA-C3A-C2A | -2.67 | 103.05 | 113.83 |
| 12 | bA | 828 | CLA | CHD-C4C-NC | 2.67 | 128.41 | 124.20 |
| 12 | cA | 807 | CLA | C3B-C4B-NB | 2.67 | 112.66 | 109.21 |
| 12 | aB | 949 | CLA | CMA-C3A-C2A | -2.67 | 109.86 | 116.10 |
| 12 | aA | 809 | CLA | CHD-C4C-NC | 2.67 | 128.41 | 124.20 |
| 12 | bB | 929 | CLA | CMB-C2B-C3B | 2.67 | 129.67 | 124.68 |
| 12 | bA | 809 | CLA | CHD-C4C-NC | 2.67 | 128.41 | 124.20 |
| 12 | bB | 920 | CLA | CHC-C1C-C2C | -2.67 | 119.34 | 126.72 |
| 15 | cI | 101 | BCR | C3-C4-C5 | -2.67 | 109.31 | 114.08 |
| 12 | cA | 816 | CLA | O2D-CGD-O1D | -2.67 | 118.62 | 123.84 |
| 12 | cA | 819 | CLA | C1-C2-C3 | -2.67 | 121.43 | 126.04 |
| 12 | cB | 920 | CLA | CHC-C1C-C2C | -2.67 | 119.34 | 126.72 |
| 15 | aB | 944 | BCR | C27-C26-C25 | 2.67 | 126.60 | 122.73 |
| 12 | cB | 916 | CLA | O2A-CGA-O1A | -2.67 | 116.86 | 123.59 |
| 15 | cB | 946 | BCR | C27-C26-C25 | 2.67 | 126.60 | 122.73 |
| 15 | bA | 850 | BCR | C24-C23-C22 | -2.67 | 122.21 | 126.23 |
| 15 | bF | 204 | BCR | C2-C1-C6 | 2.67 | 114.58 | 110.48 |
| 12 | cB | 929 | CLA | C3B-C4B-NB | 2.66 | 112.66 | 109.21 |
| 12 | aA | 810 | CLA | CMC-C2C-C1C | 2.66 | 129.10 | 125.04 |
| 12 | aB | 929 | CLA | CMB-C2B-C3B | 2.66 | 129.66 | 124.68 |
| 12 | aB | 904 | CLA | CMA-C3A-C2A | -2.66 | 103.08 | 113.83 |
| 12 | bL | 203 | CLA | CBC-CAC-C3C | -2.66 | 105.09 | 112.43 |
| 12 | cB | 913 | CLA | O2A-CGA-CBA | 2.66 | 120.27 | 111.91 |
| 12 | bB | 929 | CLA | C3B-C4B-NB | 2.66 | 112.65 | 109.21 |
| 16 | aA | 852 | LHG | O8-C23-C24 | 2.66 | 120.26 | 111.91 |
| 12 | bB | 902 | CLA | C4-C3-C5 | 2.66 | 119.75 | 115.27 |
| 12 | aA | 815 | CLA | CHD-C4C-NC | 2.66 | 128.40 | 124.20 |
| 12 | cB | 925 | CLA | C3B-C4B-NB | 2.66 | 112.65 | 109.21 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 939 | CLA | C4C-C3C-C2C | -2.66 | 103.02 | 106.90 |
| 12 | cA | 817 | CLA | CHC-C1C-C2C | -2.66 | 119.36 | 126.72 |
| 12 | cA | 834 | CLA | C1-C2-C3 | -2.66 | 121.44 | 126.04 |
| 15 | cF | 204 | BCR | C2-C1-C6 | 2.66 | 114.58 | 110.48 |
| 12 | bA | 808 | CLA | O2D-CGD-O1D | -2.66 | 118.63 | 123.84 |
| 12 | cL | 203 | CLA | CBC-CAC-C3C | -2.66 | 105.09 | 112.43 |
| 12 | bA | 817 | CLA | CHC-C1C-C2C | -2.66 | 119.36 | 126.72 |
| 12 | aB | 913 | CLA | CHD-C4C-NC | 2.66 | 128.40 | 124.20 |
| 12 | cB | 917 | CLA | CAC-C3C-C4C | 2.66 | 128.26 | 124.81 |
| 12 | cA | 836 | CLA | C4A-NA-C1A | -2.66 | 105.51 | 106.71 |
| 12 | bB | 904 | CLA | CMA-C3A-C2A | -2.66 | 103.10 | 113.83 |
| 16 | bA | 851 | LHG | O8-C23-C24 | 2.66 | 120.25 | 111.91 |
| 11 | aA | 801 | CL0 | C4-C3-C5 | 2.66 | 119.74 | 115.27 |
| 12 | cA | 828 | CLA | CHD-C4C-NC | 2.66 | 128.39 | 124.20 |
| 12 | cA | 824 | CLA | C4C-C3C-C2C | -2.66 | 103.02 | 106.90 |
| 12 | bA | 826 | CLA | C3B-C4B-NB | 2.66 | 112.65 | 109.21 |
| 12 | bA | 804 | CLA | O1D-CGD-CBD | -2.66 | 119.05 | 124.48 |
| 12 | cB | 949 | CLA | CMA-C3A-C2A | -2.66 | 109.90 | 116.10 |
| 12 | aA | 817 | CLA | CHC-C1C-C2C | -2.66 | 119.38 | 126.72 |
| 12 | cA | 839 | CLA | C4A-NA-C1A | -2.66 | 105.51 | 106.71 |
| 12 | aA | 819 | CLA | CHD-C4C-NC | 2.66 | 128.39 | 124.20 |
| 11 | cA | 801 | CL0 | C4-C3-C5 | 2.65 | 119.74 | 115.27 |
| 12 | bA | 838 | CLA | CMC-C2C-C1C | 2.65 | 129.08 | 125.04 |
| 12 | cB | 916 | CLA | CMC-C2C-C1C | 2.65 | 129.08 | 125.04 |
| 12 | cL | 203 | CLA | CMC-C2C-C1C | 2.65 | 129.08 | 125.04 |
| 12 | cA | 809 | CLA | CHC-C1C-C2C | -2.65 | 119.38 | 126.72 |
| 12 | aB | 913 | CLA | O2A-CGA-CBA | 2.65 | 120.23 | 111.91 |
| 12 | cA | 839 | CLA | CAA-CBA-CGA | -2.65 | 105.47 | 112.51 |
| 15 | bB | 942 | BCR | C29-C30-C25 | 2.65 | 114.56 | 110.48 |
| 12 | cA | 841 | CLA | CHC-C1C-C2C | -2.65 | 119.38 | 126.72 |
| 16 | cA | 851 | LHG | O8-C23-C24 | 2.65 | 120.23 | 111.91 |
| 12 | aA | 828 | CLA | CHD-C4C-NC | 2.65 | 128.38 | 124.20 |
| 12 | bA | 807 | CLA | C3B-C4B-NB | 2.65 | 112.64 | 109.21 |
| 12 | aA | 810 | CLA | CHD-C4C-NC | 2.65 | 128.38 | 124.20 |
| 12 | cB | 913 | CLA | CHD-C4C-NC | 2.65 | 128.38 | 124.20 |
| 12 | aA | 826 | CLA | C3B-C4B-NB | 2.65 | 112.64 | 109.21 |
| 12 | cA | 841 | CLA | C3B-C4B-NB | 2.65 | 112.64 | 109.21 |
| 12 | bB | 916 | CLA | CMC-C2C-C1C | 2.65 | 129.08 | 125.04 |
| 12 | cA | 810 | CLA | CMC-C2C-C1C | 2.65 | 129.08 | 125.04 |
| 12 | aA | 839 | CLA | C4A-NA-C1A | -2.65 | 105.51 | 106.71 |
| 12 | aB | 939 | CLA | C4C-C3C-C2C | -2.65 | 103.03 | 106.90 |
| 12 | bB | 917 | CLA | CAC-C3C-C4C | 2.65 | 128.25 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 11 | bA | 801 | CL0 | C4-C3-C5 | 2.65 | 119.73 | 115.27 |
| 12 | bA | 816 | CLA | O2D-CGD-O1D | -2.65 | 118.66 | 123.84 |
| 12 | aA | 816 | CLA | O2D-CGD-O1D | -2.65 | 118.66 | 123.84 |
| 12 | aB | 936 | CLA | CBA-CAA-C2A | 2.65 | 121.68 | 113.86 |
| 12 | aA | 819 | CLA | C1-C2-C3 | -2.65 | 121.46 | 126.04 |
| 12 | aB | 935 | CLA | O2D-CGD-O1D | -2.65 | 118.66 | 123.84 |
| 12 | bA | 809 | CLA | CHC-C1C-C2C | -2.65 | 119.40 | 126.72 |
| 12 | aA | 839 | CLA | CAA-CBA-CGA | -2.65 | 105.48 | 112.51 |
| 12 | bB | 906 | CLA | CAC-C3C-C4C | 2.65 | 128.24 | 124.81 |
| 12 | aA | 804 | CLA | O1D-CGD-CBD | -2.65 | 119.07 | 124.48 |
| 12 | bB | 935 | CLA | O2D-CGD-O1D | -2.65 | 118.66 | 123.84 |
| 12 | bA | 839 | CLA | CAA-CBA-CGA | -2.65 | 105.48 | 112.51 |
| 12 | cB | 939 | CLA | C4C-C3C-C2C | -2.65 | 103.04 | 106.90 |
| 15 | aF | 204 | BCR | C2-C1-C6 | 2.65 | 114.55 | 110.48 |
| 12 | aB | 917 | CLA | CAC-C3C-C4C | 2.65 | 128.24 | 124.81 |
| 12 | aA | 809 | CLA | CHC-C1C-C2C | -2.64 | 119.41 | 126.72 |
| 12 | cA | 815 | CLA | CHD-C4C-NC | 2.64 | 128.37 | 124.20 |
| 13 | cA | 844 | 1L3 | C22-C21-C23 | 2.64 | 119.72 | 115.27 |
| 15 | cB | 942 | BCR | C29-C30-C25 | 2.64 | 114.55 | 110.48 |
| 13 | bA | 844 | 1L3 | C22-C21-C23 | 2.64 | 119.72 | 115.27 |
| 12 | bA | 833 | CLA | CHD-C4C-NC | 2.64 | 128.37 | 124.20 |
| 15 | bB | 944 | BCR | C27-C26-C25 | 2.64 | 126.57 | 122.73 |
| 12 | bB | 913 | CLA | O2A-CGA-CBA | 2.64 | 120.20 | 111.91 |
| 12 | aB | 921 | CLA | CAA-C2A-C3A | -2.64 | 105.54 | 112.78 |
| 12 | aA | 825 | CLA | CHD-C4C-NC | 2.64 | 128.37 | 124.20 |
| 12 | bA | 841 | CLA | CHC-C1C-C2C | -2.64 | 119.42 | 126.72 |
| 12 | bB | 921 | CLA | CAA-C2A-C3A | -2.64 | 105.55 | 112.78 |
| 12 | bB | 901 | CLA | O2D-CGD-O1D | -2.64 | 118.68 | 123.84 |
| 12 | cB | 936 | CLA | CBA-CAA-C2A | 2.64 | 121.66 | 113.86 |
| 12 | bB | 925 | CLA | C1-C2-C3 | -2.64 | 121.48 | 126.04 |
| 12 | aB | 925 | CLA | C1-C2-C3 | -2.64 | 121.48 | 126.04 |
| 12 | cB | 912 | CLA | O2A-CGA-CBA | 2.64 | 120.19 | 111.91 |
| 12 | bA | 828 | CLA | CHC-C1C-C2C | -2.64 | 119.42 | 126.72 |
| 12 | bA | 815 | CLA | CHD-C4C-NC | 2.64 | 128.36 | 124.20 |
| 12 | aA | 838 | CLA | CMC-C2C-C1C | 2.64 | 129.06 | 125.04 |
| 12 | aA | 828 | CLA | CHC-C1C-C2C | -2.64 | 119.42 | 126.72 |
| 12 | aB | 921 | CLA | CAC-C3C-C4C | 2.64 | 128.23 | 124.81 |
| 15 | bI | 101 | BCR | C15-C14-C13 | -2.64 | 123.55 | 127.31 |
| 12 | cB | 929 | CLA | CMB-C2B-C3B | 2.64 | 129.61 | 124.68 |
| 12 | cB | 925 | CLA | C1-C2-C3 | -2.64 | 121.48 | 126.04 |
| 12 | aA | 844 | CLA | C4A-NA-C1A | -2.64 | 105.52 | 106.71 |
| 12 | bB | 938 | CLA | C4A-NA-C1A | -2.64 | 105.52 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 912 | CLA | O2A-CGA-CBA | 2.64 | 120.18 | 111.91 |
| 13 | aA | 845 | 1L3 | C22-C21-C23 | 2.64 | 119.70 | 115.27 |
| 15 | bA | 849 | BCR | C11-C10-C9 | -2.63 | 123.55 | 127.31 |
| 12 | bB | 921 | CLA | CAC-C3C-C4C | 2.63 | 128.23 | 124.81 |
| 12 | aA | 833 | CLA | CHD-C4C-NC | 2.63 | 128.35 | 124.20 |
| 12 | aA | 841 | CLA | CHC-C1C-C2C | -2.63 | 119.44 | 126.72 |
| 12 | cB | 901 | CLA | O2D-CGD-O1D | -2.63 | 118.69 | 123.84 |
| 12 | aB | 936 | CLA | CHD-C4C-NC | 2.63 | 128.35 | 124.20 |
| 12 | cA | 825 | CLA | CHD-C4C-NC | 2.63 | 128.35 | 124.20 |
| 12 | cA | 822 | CLA | C4C-C3C-C2C | -2.63 | 103.06 | 106.90 |
| 12 | cB | 921 | CLA | CAA-C2A-C3A | -2.63 | 105.58 | 112.78 |
| 12 | aB | 901 | CLA | C1-C2-C3 | -2.63 | 121.49 | 126.04 |
| 12 | cA | 808 | CLA | O2D-CGD-O1D | -2.63 | 118.70 | 123.84 |
| 12 | bA | 824 | CLA | C4C-C3C-C2C | -2.63 | 103.06 | 106.90 |
| 12 | bB | 901 | CLA | C1-C2-C3 | -2.63 | 121.50 | 126.04 |
| 12 | bB | 936 | CLA | CBA-CAA-C2A | 2.63 | 121.62 | 113.86 |
| 12 | cA | 805 | CLA | O2A-CGA-CBA | 2.63 | 120.15 | 111.91 |
| 12 | aA | 841 | CLA | C3B-C4B-NB | 2.63 | 112.61 | 109.21 |
| 12 | cA | 832 | CLA | CED-O2D-CGD | 2.63 | 121.88 | 115.94 |
| 12 | aB | 906 | CLA | CAC-C3C-C4C | 2.63 | 128.22 | 124.81 |
| 12 | aB | 901 | CLA | O2D-CGD-O1D | -2.62 | 118.71 | 123.84 |
| 15 | aI | 101 | BCR | C15-C14-C13 | -2.62 | 123.56 | 127.31 |
| 15 | aA | 851 | BCR | C7-C8-C9 | -2.62 | 122.27 | 126.23 |
| 12 | cA | 804 | CLA | O1D-CGD-CBD | -2.62 | 119.11 | 124.48 |
| 12 | cA | 838 | CLA | CMC-C2C-C1C | 2.62 | 129.03 | 125.04 |
| 12 | aA | 807 | CLA | C3B-C4B-NB | 2.62 | 112.60 | 109.21 |
| 12 | aB | 920 | CLA | O2D-CGD-O1D | -2.62 | 118.71 | 123.84 |
| 12 | cA | 833 | CLA | CHD-C4C-NC | 2.62 | 128.34 | 124.20 |
| 12 | cL | 202 | CLA | CHD-C4C-NC | 2.62 | 128.34 | 124.20 |
| 12 | aA | 832 | CLA | CED-O2D-CGD | 2.62 | 121.87 | 115.94 |
| 12 | bB | 912 | CLA | O2A-CGA-CBA | 2.62 | 120.14 | 111.91 |
| 12 | bA | 810 | CLA | CHD-C4C-NC | 2.62 | 128.34 | 124.20 |
| 12 | aA | 824 | CLA | C4C-C3C-C2C | -2.62 | 103.08 | 106.90 |
| 12 | aA | 805 | CLA | CBC-CAC-C3C | -2.62 | 105.20 | 112.43 |
| 12 | bA | 805 | CLA | CBC-CAC-C3C | -2.62 | 105.20 | 112.43 |
| 12 | bB | 920 | CLA | O2D-CGD-O1D | -2.62 | 118.71 | 123.84 |
| 12 | bB | 919 | CLA | CBC-CAC-C3C | -2.62 | 105.21 | 112.43 |
| 12 | bA | 805 | CLA | O2A-CGA-CBA | 2.62 | 120.13 | 111.91 |
| 12 | bB | 913 | CLA | CHD-C4C-NC | 2.62 | 128.33 | 124.20 |
| 12 | cB | 935 | CLA | O2D-CGD-O1D | -2.62 | 118.72 | 123.84 |
| 12 | cA | 828 | CLA | CHC-C1C-C2C | -2.62 | 119.48 | 126.72 |
| 15 | aA | 851 | BCR | C24-C23-C22 | -2.62 | 122.28 | 126.23 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 805 | CLA | O2A-CGA-CBA | 2.62 | 120.12 | 111.91 |
| 12 | cA | 826 | CLA | C3B-C4B-NB | 2.62 | 112.59 | 109.21 |
| 12 | bB | 928 | CLA | O2A-CGA-CBA | 2.62 | 120.12 | 111.91 |
| 12 | cB | 928 | CLA | O2A-CGA-CBA | 2.62 | 120.12 | 111.91 |
| 12 | bB | 936 | CLA | CHD-C4C-NC | 2.62 | 128.33 | 124.20 |
| 12 | bA | 836 | CLA | CHD-C4C-NC | 2.62 | 128.33 | 124.20 |
| 12 | bA | 832 | CLA | CED-O2D-CGD | 2.61 | 121.85 | 115.94 |
| 12 | cB | 920 | CLA | O2D-CGD-O1D | -2.61 | 118.73 | 123.84 |
| 12 | cA | 805 | CLA | CBC-CAC-C3C | -2.61 | 105.22 | 112.43 |
| 15 | cA | 850 | BCR | C24-C23-C22 | -2.61 | 122.28 | 126.23 |
| 13 | cA | 844 | 1L3 | C22-C21-C20 | -2.61 | 116.97 | 123.68 |
| 12 | bA | 839 | CLA | C4A-NA-C1A | -2.61 | 105.53 | 106.71 |
| 12 | aB | 928 | CLA | O2A-CGA-CBA | 2.61 | 120.11 | 111.91 |
| 12 | aA | 808 | CLA | O2D-CGD-O1D | -2.61 | 118.73 | 123.84 |
| 15 | bA | 850 | BCR | C7-C8-C9 | -2.61 | 122.29 | 126.23 |
| 12 | bA | 841 | CLA | C3B-C4B-NB | 2.61 | 112.58 | 109.21 |
| 15 | cA | 850 | BCR | C7-C8-C9 | -2.61 | 122.29 | 126.23 |
| 12 | cB | 901 | CLA | C1-C2-C3 | -2.61 | 121.53 | 126.04 |
| 12 | bA | 836 | CLA | CBC-CAC-C3C | -2.61 | 105.24 | 112.43 |
| 12 | bA | 834 | CLA | C4C-C3C-C2C | -2.61 | 103.10 | 106.90 |
| 12 | cA | 836 | CLA | CBC-CAC-C3C | -2.61 | 105.24 | 112.43 |
| 12 | bL | 202 | CLA | CHD-C4C-NC | 2.61 | 128.31 | 124.20 |
| 15 | aA | 848 | BCR | C15-C16-C17 | -2.61 | 118.14 | 123.47 |
| 12 | bA | 822 | CLA | CMC-C2C-C1C | 2.61 | 129.01 | 125.04 |
| 12 | aL | 202 | CLA | CHD-C4C-NC | 2.61 | 128.31 | 124.20 |
| 12 | bA | 843 | CLA | C11-C12-C13 | -2.61 | 107.50 | 115.92 |
| 12 | cA | 834 | CLA | C4C-C3C-C2C | -2.60 | 103.10 | 106.90 |
| 15 | cJ | 101 | BCR | C15-C14-C13 | -2.60 | 123.59 | 127.31 |
| 12 | cA | 843 | CLA | C11-C12-C13 | -2.60 | 107.51 | 115.92 |
| 12 | aA | 822 | CLA | C4C-C3C-C2C | -2.60 | 103.11 | 106.90 |
| 15 | bA | 847 | BCR | C15-C16-C17 | -2.60 | 118.14 | 123.47 |
| 12 | aB | 901 | CLA | O2A-CGA-CBA | 2.60 | 120.07 | 111.91 |
| 12 | bA | 812 | CLA | O2A-CGA-CBA | 2.60 | 120.07 | 111.91 |
| 12 | bA | 822 | CLA | C4C-C3C-C2C | -2.60 | 103.11 | 106.90 |
| 12 | aA | 843 | CLA | C11-C12-C13 | -2.60 | 107.51 | 115.92 |
| 13 | bA | 844 | 1L3 | C22-C21-C20 | -2.60 | 117.01 | 123.68 |
| 12 | aB | 906 | CLA | CMB-C2B-C3B | 2.60 | 129.54 | 124.68 |
| 13 | aA | 845 | 1L3 | C22-C21-C20 | -2.60 | 117.01 | 123.68 |
| 12 | aA | 820 | CLA | O2D-CGD-O1D | -2.60 | 118.76 | 123.84 |
| 12 | bA | 820 | CLA | O2D-CGD-O1D | -2.60 | 118.76 | 123.84 |
| 12 | cB | 921 | CLA | CAC-C3C-C4C | 2.60 | 128.18 | 124.81 |
| 12 | aB | 938 | CLA | C4A-NA-C1A | -2.60 | 105.54 | 106.71 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 838 | CLA | C4-C3-C5 | 2.60 | 119.64 | 115.27 |
| 12 | cB | 936 | CLA | CHD-C4C-NC | 2.60 | 128.30 | 124.20 |
| 12 | aA | 831 | CLA | CBC-CAC-C3C | -2.60 | 105.27 | 112.43 |
| 12 | aA | 836 | CLA | CBC-CAC-C3C | -2.60 | 105.27 | 112.43 |
| 12 | aA | 854 | CLA | CHC-C1C-C2C | -2.60 | 119.54 | 126.72 |
| 12 | bB | 930 | CLA | O2A-CGA-CBA | 2.60 | 120.06 | 111.91 |
| 12 | cB | 930 | CLA | O2A-CGA-CBA | 2.60 | 120.06 | 111.91 |
| 12 | aB | 909 | CLA | O2A-CGA-CBA | 2.60 | 120.05 | 111.91 |
| 12 | aB | 933 | CLA | CAC-C3C-C4C | 2.60 | 128.18 | 124.81 |
| 12 | aA | 838 | CLA | C4-C3-C5 | 2.60 | 119.64 | 115.27 |
| 15 | bJ | 101 | BCR | C15-C14-C13 | -2.60 | 123.61 | 127.31 |
| 12 | cB | 919 | CLA | CBC-CAC-C3C | -2.59 | 105.28 | 112.43 |
| 12 | cB | 906 | CLA | CHC-C1C-C2C | -2.59 | 119.55 | 126.72 |
| 12 | bB | 921 | CLA | CHD-C4C-NC | 2.59 | 128.29 | 124.20 |
| 15 | cI | 101 | BCR | C15-C14-C13 | -2.59 | 123.61 | 127.31 |
| 12 | cA | 820 | CLA | O2D-CGD-O1D | -2.59 | 118.77 | 123.84 |
| 12 | cB | 901 | CLA | O2A-CGA-CBA | 2.59 | 120.05 | 111.91 |
| 12 | bB | 933 | CLA | CAC-C3C-C4C | 2.59 | 128.18 | 124.81 |
| 12 | bB | 935 | CLA | C5-C3-C4 | 2.59 | 120.33 | 114.60 |
| 15 | aF | 203 | BCR | C27-C26-C25 | 2.59 | 126.50 | 122.73 |
| 12 | aB | 919 | CLA | CBC-CAC-C3C | -2.59 | 105.28 | 112.43 |
| 12 | aB | 915 | CLA | CAC-C3C-C2C | 2.59 | 131.96 | 127.53 |
| 12 | aB | 930 | CLA | O2A-CGA-CBA | 2.59 | 120.04 | 111.91 |
| 12 | bB | 906 | CLA | CMB-C2B-C3B | 2.59 | 129.53 | 124.68 |
| 12 | aA | 834 | CLA | C4C-C3C-C2C | -2.59 | 103.12 | 106.90 |
| 12 | aA | 812 | CLA | O2A-CGA-CBA | 2.59 | 120.04 | 111.91 |
| 12 | bB | 909 | CLA | O2A-CGA-CBA | 2.59 | 120.04 | 111.91 |
| 12 | bA | 831 | CLA | CBC-CAC-C3C | -2.59 | 105.29 | 112.43 |
| 12 | aB | 911 | CLA | CMB-C2B-C3B | 2.59 | 129.52 | 124.68 |
| 12 | cA | 812 | CLA | O2A-CGA-CBA | 2.59 | 120.03 | 111.91 |
| 12 | cA | 810 | CLA | CHD-C4C-NC | 2.59 | 128.28 | 124.20 |
| 12 | cB | 915 | CLA | CAC-C3C-C2C | 2.59 | 131.96 | 127.53 |
| 15 | bF | 203 | BCR | C27-C26-C25 | 2.59 | 126.49 | 122.73 |
| 12 | aL | 204 | CLA | CHD-C4C-NC | 2.59 | 128.28 | 124.20 |
| 12 | bB | 915 | CLA | CAC-C3C-C2C | 2.59 | 131.96 | 127.53 |
| 15 | cF | 203 | BCR | C40-C30-C25 | 2.59 | 114.50 | 110.30 |
| 12 | cA | 831 | CLA | CBC-CAC-C3C | -2.59 | 105.30 | 112.43 |
| 12 | bB | 911 | CLA | CMB-C2B-C3B | 2.59 | 129.52 | 124.68 |
| 12 | bL | 202 | CLA | O1D-CGD-CBD | -2.59 | 119.19 | 124.48 |
| 12 | cB | 934 | CLA | CHD-C4C-NC | 2.59 | 128.28 | 124.20 |
| 12 | aB | 950 | CLA | C4A-NA-C1A | -2.59 | 105.54 | 106.71 |
| 12 | cA | 802 | CLA | O2A-CGA-CBA | 2.59 | 120.03 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 802 | CLA | O2A-CGA-CBA | 2.59 | 120.02 | 111.91 |
| 12 | cA | 826 | CLA | CHD-C4C-NC | 2.59 | 128.28 | 124.20 |
| 12 | bB | 906 | CLA | CHC-C1C-C2C | -2.59 | 119.57 | 126.72 |
| 12 | cL | 202 | CLA | O1D-CGD-CBD | -2.59 | 119.19 | 124.48 |
| 15 | aA | 850 | BCR | C11-C10-C9 | -2.58 | 123.62 | 127.31 |
| 12 | bA | 825 | CLA | CHA-C1A-NA | -2.58 | 120.48 | 126.40 |
| 12 | bL | 204 | CLA | CHD-C4C-NC | 2.58 | 128.28 | 124.20 |
| 12 | bA | 853 | CLA | CHC-C1C-C2C | -2.58 | 119.57 | 126.72 |
| 12 | aA | 819 | CLA | O2D-CGD-O1D | -2.58 | 118.79 | 123.84 |
| 12 | cB | 911 | CLA | CMB-C2B-C3B | 2.58 | 129.51 | 124.68 |
| 12 | aL | 202 | CLA | O1D-CGD-CBD | -2.58 | 119.20 | 124.48 |
| 12 | aB | 935 | CLA | C5-C3-C4 | 2.58 | 120.31 | 114.60 |
| 12 | bB | 901 | CLA | O2A-CGA-CBA | 2.58 | 120.01 | 111.91 |
| 12 | cA | 853 | CLA | CHC-C1C-C2C | -2.58 | 119.58 | 126.72 |
| 12 | aB | 921 | CLA | CHD-C4C-NC | 2.58 | 128.27 | 124.20 |
| 12 | cA | 819 | CLA | O2D-CGD-O1D | -2.58 | 118.79 | 123.84 |
| 12 | aA | 804 | CLA | O2A-CGA-CBA | 2.58 | 120.01 | 111.91 |
| 12 | aA | 821 | CLA | CAA-C2A-C3A | -2.58 | 105.71 | 112.78 |
| 12 | aB | 916 | CLA | C1C-C2C-C3C | -2.58 | 104.24 | 106.96 |
| 12 | bB | 916 | CLA | C1C-C2C-C3C | -2.58 | 104.24 | 106.96 |
| 12 | cA | 838 | CLA | C3B-C4B-NB | 2.58 | 112.55 | 109.21 |
| 12 | cB | 926 | CLA | CHB-C4A-NA | 2.58 | 128.08 | 124.51 |
| 12 | bA | 819 | CLA | O2D-CGD-O1D | -2.58 | 118.80 | 123.84 |
| 12 | bA | 821 | CLA | CAA-C2A-C3A | -2.58 | 105.72 | 112.78 |
| 12 | bA | 802 | CLA | O2A-CGA-CBA | 2.58 | 120.00 | 111.91 |
| 12 | aB | 936 | CLA | CMB-C2B-C3B | 2.58 | 129.50 | 124.68 |
| 12 | cB | 921 | CLA | CHD-C4C-NC | 2.58 | 128.27 | 124.20 |
| 12 | cB | 907 | CLA | CHD-C4C-NC | 2.58 | 128.26 | 124.20 |
| 12 | bA | 832 | CLA | O2D-CGD-O1D | -2.58 | 118.80 | 123.84 |
| 12 | cB | 933 | CLA | CAC-C3C-C4C | 2.58 | 128.15 | 124.81 |
| 15 | aB | 941 | BCR | C33-C5-C6 | -2.58 | 121.64 | 124.53 |
| 12 | aA | 812 | CLA | C1-O2A-CGA | 2.58 | 123.20 | 116.44 |
| 15 | aF | 203 | BCR | C40-C30-C25 | 2.58 | 114.48 | 110.30 |
| 12 | aA | 832 | CLA | O2D-CGD-O1D | -2.58 | 118.80 | 123.84 |
| 15 | cF | 203 | BCR | C27-C26-C25 | 2.57 | 126.47 | 122.73 |
| 12 | cA | 804 | CLA | O2A-CGA-CBA | 2.57 | 119.99 | 111.91 |
| 12 | cA | 836 | CLA | CHD-C4C-NC | 2.57 | 128.26 | 124.20 |
| 12 | cB | 935 | CLA | C5-C3-C4 | 2.57 | 120.29 | 114.60 |
| 12 | cA | 808 | CLA | CHD-C4C-NC | 2.57 | 128.26 | 124.20 |
| 12 | cB | 926 | CLA | CMB-C2B-C3B | 2.57 | 129.49 | 124.68 |
| 12 | aA | 836 | CLA | CHD-C4C-NC | 2.57 | 128.26 | 124.20 |
| 12 | aB | 907 | CLA | CHD-C4C-NC | 2.57 | 128.26 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 906 | CLA | CHD-C4C-NC | 2.57 | 128.26 | 124.20 |
| 12 | cB | 906 | CLA | CMB-C2B-C3B | 2.57 | 129.49 | 124.68 |
| 15 | cA | 847 | BCR | C15-C16-C17 | -2.57 | 118.21 | 123.47 |
| 12 | aA | 826 | CLA | CHD-C4C-NC | 2.57 | 128.25 | 124.20 |
| 12 | cB | 909 | CLA | O2A-CGA-CBA | 2.57 | 119.98 | 111.91 |
| 12 | aA | 829 | CLA | CHD-C4C-NC | 2.57 | 128.25 | 124.20 |
| 12 | cA | 814 | CLA | CHD-C4C-NC | 2.57 | 128.25 | 124.20 |
| 12 | cL | 204 | CLA | CHD-C4C-NC | 2.57 | 128.25 | 124.20 |
| 12 | bA | 804 | CLA | O2A-CGA-CBA | 2.57 | 119.97 | 111.91 |
| 15 | aJ | 101 | BCR | C15-C14-C13 | -2.57 | 123.64 | 127.31 |
| 12 | aB | 926 | CLA | CMB-C2B-C3B | 2.57 | 129.48 | 124.68 |
| 12 | cA | 826 | CLA | CMB-C2B-C3B | 2.57 | 129.48 | 124.68 |
| 12 | cA | 821 | CLA | CAA-C2A-C3A | -2.57 | 105.75 | 112.78 |
| 12 | cA | 842 | CLA | CAC-C3C-C4C | 2.57 | 128.14 | 124.81 |
| 12 | aA | 838 | CLA | CHC-C1C-C2C | -2.57 | 119.62 | 126.72 |
| 12 | bA | 838 | CLA | CHC-C1C-C2C | -2.57 | 119.62 | 126.72 |
| 12 | aB | 906 | CLA | CHC-C1C-C2C | -2.57 | 119.62 | 126.72 |
| 12 | cB | 938 | CLA | CMB-C2B-C3B | 2.57 | 129.48 | 124.68 |
| 12 | bB | 928 | CLA | CMA-C3A-C4A | -2.57 | 104.88 | 111.77 |
| 15 | cB | 941 | BCR | C33-C5-C6 | -2.57 | 121.65 | 124.53 |
| 12 | cA | 838 | CLA | CHC-C1C-C2C | -2.57 | 119.62 | 126.72 |
| 12 | bF | 202 | CLA | O2D-CGD-O1D | -2.57 | 118.82 | 123.84 |
| 12 | bA | 825 | CLA | CAC-C3C-C4C | 2.56 | 128.14 | 124.81 |
| 12 | bB | 920 | CLA | O1D-CGD-CBD | -2.56 | 119.24 | 124.48 |
| 12 | bB | 920 | CLA | C4C-C3C-C2C | -2.56 | 103.16 | 106.90 |
| 12 | aB | 930 | CLA | CHB-C4A-NA | 2.56 | 128.06 | 124.51 |
| 12 | cA | 822 | CLA | CMC-C2C-C1C | 2.56 | 128.94 | 125.04 |
| 15 | cA | 847 | BCR | C2-C1-C6 | 2.56 | 114.43 | 110.48 |
| 12 | aA | 815 | CLA | CBC-CAC-C3C | -2.56 | 105.36 | 112.43 |
| 12 | cB | 925 | CLA | CMC-C2C-C1C | 2.56 | 128.94 | 125.04 |
| 12 | bB | 936 | CLA | CMB-C2B-C3B | 2.56 | 129.47 | 124.68 |
| 12 | aB | 915 | CLA | CMB-C2B-C3B | 2.56 | 129.47 | 124.68 |
| 12 | aB | 904 | CLA | CHD-C4C-NC | 2.56 | 128.24 | 124.20 |
| 12 | aA | 825 | CLA | CAC-C3C-C4C | 2.56 | 128.13 | 124.81 |
| 12 | aA | 842 | CLA | CAC-C3C-C4C | 2.56 | 128.13 | 124.81 |
| 12 | aA | 811 | CLA | CMB-C2B-C3B | 2.56 | 129.47 | 124.68 |
| 12 | cB | 936 | CLA | CMB-C2B-C3B | 2.56 | 129.47 | 124.68 |
| 12 | aB | 928 | CLA | C1-C2-C3 | -2.56 | 122.61 | 126.75 |
| 12 | cB | 906 | CLA | CHD-C4C-NC | 2.56 | 128.24 | 124.20 |
| 12 | aA | 826 | CLA | CMB-C2B-C3B | 2.56 | 129.47 | 124.68 |
| 12 | cB | 916 | CLA | C1C-C2C-C3C | -2.56 | 104.27 | 106.96 |
| 15 | cL | 201 | BCR | C1-C6-C5 | -2.56 | 119.01 | 122.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 938 | CLA | CMB-C2B-C3B | 2.56 | 129.47 | 124.68 |
| 12 | cA | 832 | CLA | O2D-CGD-O1D | -2.56 | 118.83 | 123.84 |
| 15 | bF | 203 | BCR | C40-C30-C25 | 2.56 | 114.45 | 110.30 |
| 12 | bB | 930 | CLA | CHB-C4A-NA | 2.56 | 128.05 | 124.51 |
| 12 | cA | 825 | CLA | CAC-C3C-C4C | 2.56 | 128.13 | 124.81 |
| 12 | bA | 808 | CLA | CHD-C4C-NC | 2.56 | 128.23 | 124.20 |
| 12 | bB | 934 | CLA | CHD-C4C-NC | 2.56 | 128.23 | 124.20 |
| 12 | aA | 822 | CLA | CMC-C2C-C1C | 2.56 | 128.93 | 125.04 |
| 12 | bA | 811 | CLA | CMB-C2B-C3B | 2.56 | 129.46 | 124.68 |
| 15 | bB | 941 | BCR | C33-C5-C6 | -2.56 | 121.66 | 124.53 |
| 15 | aL | 201 | BCR | C1-C6-C5 | -2.56 | 119.01 | 122.61 |
| 12 | bA | 838 | CLA | C4-C3-C5 | 2.56 | 119.57 | 115.27 |
| 12 | bA | 812 | CLA | C1-O2A-CGA | 2.56 | 123.15 | 116.44 |
| 12 | cB | 915 | CLA | CMB-C2B-C3B | 2.56 | 129.46 | 124.68 |
| 12 | aA | 814 | CLA | CHD-C4C-NC | 2.56 | 128.23 | 124.20 |
| 12 | cB | 933 | CLA | CMC-C2C-C1C | 2.56 | 128.93 | 125.04 |
| 12 | bA | 826 | CLA | CMB-C2B-C3B | 2.55 | 129.46 | 124.68 |
| 12 | cF | 202 | CLA | O2D-CGD-O1D | -2.55 | 118.84 | 123.84 |
| 12 | cB | 920 | CLA | O1D-CGD-CBD | -2.55 | 119.26 | 124.48 |
| 12 | bB | 907 | CLA | CHD-C4C-NC | 2.55 | 128.23 | 124.20 |
| 12 | aA | 825 | CLA | CHA-C1A-NA | -2.55 | 120.55 | 126.40 |
| 12 | aA | 808 | CLA | CHD-C4C-NC | 2.55 | 128.23 | 124.20 |
| 12 | bB | 931 | CLA | CMC-C2C-C1C | 2.55 | 128.93 | 125.04 |
| 12 | bA | 815 | CLA | CBC-CAC-C3C | -2.55 | 105.39 | 112.43 |
| 12 | cA | 812 | CLA | C1-O2A-CGA | 2.55 | 123.14 | 116.44 |
| 12 | aB | 907 | CLA | C4-C3-C5 | 2.55 | 119.56 | 115.27 |
| 12 | cB | 938 | CLA | CHD-C4C-NC | 2.55 | 128.22 | 124.20 |
| 12 | cA | 825 | CLA | CHA-C1A-NA | -2.55 | 120.56 | 126.40 |
| 12 | aB | 921 | CLA | O2A-CGA-CBA | 2.55 | 119.91 | 111.91 |
| 12 | aB | 928 | CLA | CMA-C3A-C4A | -2.55 | 104.92 | 111.77 |
| 12 | bB | 906 | CLA | O2D-CGD-O1D | -2.55 | 118.85 | 123.84 |
| 12 | aB | 920 | CLA | O1D-CGD-CBD | -2.55 | 119.26 | 124.48 |
| 12 | aB | 933 | CLA | CMC-C2C-C1C | 2.55 | 128.92 | 125.04 |
| 12 | cA | 815 | CLA | CBC-CAC-C3C | -2.55 | 105.40 | 112.43 |
| 12 | cB | 931 | CLA | C3B-C4B-NB | 2.55 | 112.51 | 109.21 |
| 15 | cA | 849 | BCR | C11-C10-C9 | -2.55 | 123.67 | 127.31 |
| 12 | bA | 808 | CLA | CED-O2D-CGD | 2.55 | 121.70 | 115.94 |
| 12 | bB | 925 | CLA | CMC-C2C-C1C | 2.55 | 128.92 | 125.04 |
| 12 | cB | 920 | CLA | C4C-C3C-C2C | -2.55 | 103.18 | 106.90 |
| 12 | aA | 803 | CLA | CAC-C3C-C4C | 2.55 | 128.12 | 124.81 |
| 12 | aB | 931 | CLA | C3B-C4B-NB | 2.55 | 112.50 | 109.21 |
| 12 | cA | 802 | CLA | CMB-C2B-C3B | 2.55 | 129.44 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 921 | CLA | CMC-C2C-C1C | 2.55 | 128.92 | 125.04 |
| 12 | aB | 926 | CLA | CHB-C4A-NA | 2.55 | 128.03 | 124.51 |
| 12 | bA | 814 | CLA | CHD-C4C-NC | 2.55 | 128.22 | 124.20 |
| 12 | aF | 202 | CLA | O2D-CGD-O1D | -2.55 | 118.86 | 123.84 |
| 12 | bL | 202 | CLA | O2D-CGD-O1D | -2.55 | 118.86 | 123.84 |
| 12 | bA | 838 | CLA | C3B-C4B-NB | 2.55 | 112.50 | 109.21 |
| 12 | bB | 926 | CLA | CMB-C2B-C3B | 2.55 | 129.44 | 124.68 |
| 12 | aB | 931 | CLA | CMC-C2C-C1C | 2.55 | 128.92 | 125.04 |
| 15 | cM | 101 | BCR | C27-C26-C25 | 2.55 | 126.43 | 122.73 |
| 12 | aB | 934 | CLA | CHD-C4C-NC | 2.55 | 128.22 | 124.20 |
| 12 | bB | 921 | CLA | CMC-C2C-C1C | 2.55 | 128.91 | 125.04 |
| 12 | aB | 938 | CLA | CHD-C4C-NC | 2.55 | 128.21 | 124.20 |
| 12 | aA | 838 | CLA | C3B-C4B-NB | 2.54 | 112.50 | 109.21 |
| 12 | bA | 817 | CLA | C4-C3-C5 | 2.54 | 119.55 | 115.27 |
| 12 | bB | 928 | CLA | C1-C2-C3 | -2.54 | 122.64 | 126.75 |
| 12 | cB | 928 | CLA | CMA-C3A-C4A | -2.54 | 104.94 | 111.77 |
| 12 | bB | 933 | CLA | CMC-C2C-C1C | 2.54 | 128.91 | 125.04 |
| 12 | aB | 925 | CLA | CMC-C2C-C1C | 2.54 | 128.91 | 125.04 |
| 12 | cB | 921 | CLA | O2A-CGA-CBA | 2.54 | 119.89 | 111.91 |
| 12 | aB | 920 | CLA | C4C-C3C-C2C | -2.54 | 103.19 | 106.90 |
| 12 | bA | 821 | CLA | CED-O2D-CGD | 2.54 | 121.68 | 115.94 |
| 12 | cA | 808 | CLA | CED-O2D-CGD | 2.54 | 121.68 | 115.94 |
| 12 | bB | 907 | CLA | C4-C3-C5 | 2.54 | 119.54 | 115.27 |
| 12 | cA | 811 | CLA | CMB-C2B-C3B | 2.54 | 129.43 | 124.68 |
| 12 | bB | 938 | CLA | CHD-C4C-NC | 2.54 | 128.20 | 124.20 |
| 12 | aB | 923 | CLA | C3B-C4B-NB | 2.54 | 112.49 | 109.21 |
| 12 | bB | 901 | CLA | C4-C3-C5 | 2.54 | 119.54 | 115.27 |
| 12 | bA | 826 | CLA | CHD-C4C-NC | 2.54 | 128.20 | 124.20 |
| 12 | cL | 202 | CLA | O2D-CGD-O1D | -2.54 | 118.88 | 123.84 |
| 12 | bB | 925 | CLA | CHC-C1C-C2C | -2.54 | 119.70 | 126.72 |
| 12 | aA | 802 | CLA | CMB-C2B-C3B | 2.54 | 129.42 | 124.68 |
| 12 | bB | 918 | CLA | CED-O2D-CGD | 2.54 | 121.67 | 115.94 |
| 12 | cB | 906 | CLA | O2D-CGD-O1D | -2.54 | 118.88 | 123.84 |
| 12 | aB | 906 | CLA | CHD-C4C-NC | 2.54 | 128.20 | 124.20 |
| 12 | aB | 918 | CLA | CED-O2D-CGD | 2.54 | 121.67 | 115.94 |
| 12 | cB | 918 | CLA | CED-O2D-CGD | 2.54 | 121.67 | 115.94 |
| 12 | aL | 203 | CLA | C3B-C4B-NB | 2.54 | 112.49 | 109.21 |
| 12 | aA | 818 | CLA | C1-C2-C3 | -2.54 | 121.66 | 126.04 |
| 12 | bA | 825 | CLA | CHC-C1C-C2C | -2.53 | 119.71 | 126.72 |
| 12 | bB | 915 | CLA | CMB-C2B-C3B | 2.53 | 129.42 | 124.68 |
| 12 | aA | 811 | CLA | CAC-C3C-C4C | 2.53 | 128.10 | 124.81 |
| 12 | cA | 825 | CLA | CHC-C1C-C2C | -2.53 | 119.71 | 126.72 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | cF | 204 | BCR | C7-C8-C9 | -2.53 | 122.41 | 126.23 |
| 12 | bB | 921 | CLA | O2A-CGA-CBA | 2.53 | 119.86 | 111.91 |
| 12 | aB | 930 | CLA | CHD-C4C-NC | 2.53 | 128.19 | 124.20 |
| 12 | aB | 925 | CLA | CHC-C1C-C2C | -2.53 | 119.72 | 126.72 |
| 12 | cB | 932 | CLA | O2D-CGD-O1D | -2.53 | 118.89 | 123.84 |
| 12 | cL | 202 | CLA | CAC-C3C-C4C | 2.53 | 128.10 | 124.81 |
| 12 | cA | 836 | CLA | O2D-CGD-O1D | -2.53 | 118.89 | 123.84 |
| 15 | aA | 848 | BCR | C2-C1-C6 | 2.53 | 114.38 | 110.48 |
| 12 | cB | 931 | CLA | CMC-C2C-C1C | 2.53 | 128.89 | 125.04 |
| 12 | cB | 928 | CLA | C1-C2-C3 | -2.53 | 122.66 | 126.75 |
| 12 | aL | 202 | CLA | CAC-C3C-C4C | 2.53 | 128.09 | 124.81 |
| 12 | cB | 925 | CLA | CHC-C1C-C2C | -2.53 | 119.72 | 126.72 |
| 12 | aA | 817 | CLA | C4-C3-C5 | 2.53 | 119.53 | 115.27 |
| 12 | cB | 907 | CLA | C4-C3-C5 | 2.53 | 119.53 | 115.27 |
| 12 | aA | 804 | CLA | CHD-C4C-NC | 2.53 | 128.19 | 124.20 |
| 15 | aA | 848 | BCR | C27-C26-C25 | 2.53 | 126.40 | 122.73 |
| 12 | bB | 902 | CLA | CHC-C1C-NC | 2.53 | 128.04 | 124.20 |
| 12 | aA | 821 | CLA | CED-O2D-CGD | 2.53 | 121.66 | 115.94 |
| 12 | cB | 902 | CLA | CHC-C1C-NC | 2.53 | 128.04 | 124.20 |
| 12 | aA | 825 | CLA | CHC-C1C-C2C | -2.53 | 119.73 | 126.72 |
| 12 | cA | 820 | CLA | O2A-CGA-CBA | 2.53 | 119.84 | 111.91 |
| 12 | bA | 818 | CLA | C1-C2-C3 | -2.53 | 121.67 | 126.04 |
| 12 | bA | 843 | CLA | CHD-C4C-NC | 2.53 | 128.19 | 124.20 |
| 12 | bA | 802 | CLA | CMB-C2B-C3B | 2.53 | 129.41 | 124.68 |
| 12 | bL | 203 | CLA | C3B-C4B-NB | 2.53 | 112.48 | 109.21 |
| 12 | aL | 202 | CLA | O2D-CGD-O1D | -2.53 | 118.90 | 123.84 |
| 12 | bA | 811 | CLA | CAC-C3C-C4C | 2.52 | 128.09 | 124.81 |
| 12 | bA | 823 | CLA | O2A-CGA-CBA | 2.52 | 119.83 | 111.91 |
| 12 | bA | 829 | CLA | CHD-C4C-NC | 2.52 | 128.18 | 124.20 |
| 15 | bA | 847 | BCR | C2-C1-C6 | 2.52 | 114.37 | 110.48 |
| 12 | cB | 901 | CLA | C4-C3-C5 | 2.52 | 119.52 | 115.27 |
| 12 | cA | 818 | CLA | C1-C2-C3 | -2.52 | 121.68 | 126.04 |
| 12 | aA | 823 | CLA | O2A-CGA-CBA | 2.52 | 119.83 | 111.91 |
| 12 | cA | 829 | CLA | CHD-C4C-NC | 2.52 | 128.18 | 124.20 |
| 12 | bB | 931 | CLA | C3B-C4B-NB | 2.52 | 112.47 | 109.21 |
| 12 | cA | 811 | CLA | CAC-C3C-C4C | 2.52 | 128.08 | 124.81 |
| 12 | cB | 938 | CLA | CHB-C4A-NA | 2.52 | 128.00 | 124.51 |
| 12 | cA | 817 | CLA | C4-C3-C5 | 2.52 | 119.51 | 115.27 |
| 12 | bA | 832 | CLA | CHD-C4C-NC | 2.52 | 128.18 | 124.20 |
| 12 | aA | 832 | CLA | CHD-C4C-NC | 2.52 | 128.18 | 124.20 |
| 12 | cB | 923 | CLA | C3B-C4B-NB | 2.52 | 112.47 | 109.21 |
| 12 | bA | 820 | CLA | O2A-CGA-CBA | 2.52 | 119.82 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 826 | CLA | CAC-C3C-C4C | 2.52 | 128.08 | 124.81 |
| 12 | aA | 802 | CLA | CMC-C2C-C1C | 2.52 | 128.88 | 125.04 |
| 15 | aF | 204 | BCR | C7-C8-C9 | -2.52 | 122.43 | 126.23 |
| 12 | bB | 923 | CLA | C3B-C4B-NB | 2.52 | 112.47 | 109.21 |
| 12 | aA | 820 | CLA | O2A-CGA-CBA | 2.52 | 119.81 | 111.91 |
| 12 | aB | 938 | CLA | CHB-C4A-NA | 2.52 | 127.99 | 124.51 |
| 12 | bB | 904 | CLA | CHD-C4C-NC | 2.52 | 128.17 | 124.20 |
| 12 | cA | 843 | CLA | CHD-C4C-NC | 2.52 | 128.17 | 124.20 |
| 12 | bA | 842 | CLA | CAC-C3C-C4C | 2.52 | 128.08 | 124.81 |
| 15 | cA | 847 | BCR | C27-C26-C25 | 2.52 | 126.39 | 122.73 |
| 12 | cB | 930 | CLA | CHD-C4C-NC | 2.52 | 128.17 | 124.20 |
| 12 | aA | 808 | CLA | CED-O2D-CGD | 2.52 | 121.63 | 115.94 |
| 12 | cA | 805 | CLA | CHC-C1C-C2C | -2.51 | 119.77 | 126.72 |
| 12 | aA | 831 | CLA | CMB-C2B-C3B | 2.51 | 129.38 | 124.68 |
| 12 | aB | 928 | CLA | CMC-C2C-C1C | 2.51 | 128.87 | 125.04 |
| 12 | cA | 832 | CLA | CHD-C4C-NC | 2.51 | 128.16 | 124.20 |
| 12 | aA | 840 | CLA | CED-O2D-CGD | 2.51 | 121.62 | 115.94 |
| 12 | bB | 928 | CLA | CMC-C2C-C1C | 2.51 | 128.86 | 125.04 |
| 12 | cA | 819 | CLA | CBC-CAC-C3C | -2.51 | 105.51 | 112.43 |
| 12 | bB | 950 | CLA | C4A-NA-C1A | -2.51 | 105.58 | 106.71 |
| 12 | bA | 826 | CLA | CAC-C3C-C4C | 2.51 | 128.07 | 124.81 |
| 12 | bA | 804 | CLA | CHD-C4C-NC | 2.51 | 128.16 | 124.20 |
| 12 | cA | 821 | CLA | CED-O2D-CGD | 2.51 | 121.62 | 115.94 |
| 12 | aB | 923 | CLA | O2A-CGA-O1A | -2.51 | 117.26 | 123.59 |
| 12 | bB | 923 | CLA | O2A-CGA-O1A | -2.51 | 117.26 | 123.59 |
| 15 | bM | 101 | BCR | C7-C8-C9 | -2.51 | 122.44 | 126.23 |
| 12 | bB | 930 | CLA | CHD-C4C-NC | 2.51 | 128.16 | 124.20 |
| 12 | cB | 904 | CLA | CHD-C4C-NC | 2.51 | 128.16 | 124.20 |
| 12 | cA | 802 | CLA | CMC-C2C-C1C | 2.51 | 128.86 | 125.04 |
| 12 | bA | 840 | CLA | CED-O2D-CGD | 2.51 | 121.61 | 115.94 |
| 12 | aB | 902 | CLA | CHC-C1C-NC | 2.51 | 128.01 | 124.20 |
| 12 | bA | 819 | CLA | C4-C3-C5 | 2.51 | 119.49 | 115.27 |
| 12 | cA | 823 | CLA | O2A-CGA-CBA | 2.51 | 119.78 | 111.91 |
| 15 | cA | 847 | BCR | C11-C10-C9 | -2.51 | 123.73 | 127.31 |
| 12 | aA | 817 | CLA | C4-C3-C2 | -2.51 | 117.24 | 123.68 |
| 12 | cB | 921 | CLA | CMC-C2C-C1C | 2.51 | 128.86 | 125.04 |
| 12 | bA | 842 | CLA | CAA-C2A-C3A | -2.51 | 105.91 | 112.78 |
| 12 | bB | 938 | CLA | CMB-C2B-C3B | 2.51 | 129.37 | 124.68 |
| 15 | bF | 204 | BCR | C7-C8-C9 | -2.51 | 122.44 | 126.23 |
| 12 | cA | 817 | CLA | C4-C3-C2 | -2.51 | 117.25 | 123.68 |
| 15 | bL | 201 | BCR | C1-C6-C5 | -2.51 | 119.08 | 122.61 |
| 12 | bA | 805 | CLA | CHC-C1C-C2C | -2.51 | 119.79 | 126.72 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 912 | CLA | C1-C2-C3 | -2.51 | 121.71 | 126.04 |
| 12 | cB | 901 | CLA | CAC-C3C-C4C | 2.50 | 128.06 | 124.81 |
| 12 | bA | 819 | CLA | CBC-CAC-C3C | -2.50 | 105.53 | 112.43 |
| 12 | cA | 842 | CLA | CAA-C2A-C3A | -2.50 | 105.92 | 112.78 |
| 15 | aA | 848 | BCR | C11-C10-C9 | -2.50 | 123.74 | 127.31 |
| 12 | cA | 840 | CLA | CED-O2D-CGD | 2.50 | 121.60 | 115.94 |
| 12 | aB | 906 | CLA | O2D-CGD-O1D | -2.50 | 118.94 | 123.84 |
| 12 | cA | 840 | CLA | CAA-C2A-C3A | -2.50 | 105.92 | 112.78 |
| 12 | bA | 804 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 12 | cA | 819 | CLA | C4-C3-C5 | 2.50 | 119.48 | 115.27 |
| 15 | bM | 101 | BCR | C27-C26-C25 | 2.50 | 126.36 | 122.73 |
| 12 | aL | 203 | CLA | CHC-C1C-C2C | -2.50 | 119.80 | 126.72 |
| 12 | cB | 928 | CLA | CMC-C2C-C1C | 2.50 | 128.85 | 125.04 |
| 12 | bA | 817 | CLA | C4-C3-C2 | -2.50 | 117.26 | 123.68 |
| 12 | aB | 932 | CLA | O2D-CGD-O1D | -2.50 | 118.95 | 123.84 |
| 12 | cB | 931 | CLA | CMB-C2B-C3B | 2.50 | 129.36 | 124.68 |
| 12 | bL | 202 | CLA | CAC-C3C-C4C | 2.50 | 128.05 | 124.81 |
| 12 | bA | 838 | CLA | CBC-CAC-C3C | -2.50 | 105.54 | 112.43 |
| 12 | aB | 931 | CLA | CMB-C2B-C3B | 2.50 | 129.35 | 124.68 |
| 12 | aB | 901 | CLA | C4-C3-C5 | 2.50 | 119.48 | 115.27 |
| 12 | aA | 842 | CLA | CAA-C2A-C3A | -2.50 | 105.93 | 112.78 |
| 12 | aA | 826 | CLA | CAC-C3C-C4C | 2.50 | 128.05 | 124.81 |
| 12 | cL | 203 | CLA | CHC-C1C-C2C | -2.50 | 119.81 | 126.72 |
| 12 | aA | 819 | CLA | CBC-CAC-C3C | -2.50 | 105.54 | 112.43 |
| 12 | cA | 833 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 12 | cB | 930 | CLA | CHB-C4A-NA | 2.50 | 127.97 | 124.51 |
| 12 | bA | 831 | CLA | CMB-C2B-C3B | 2.50 | 129.35 | 124.68 |
| 12 | aA | 805 | CLA | CHC-C1C-C2C | -2.50 | 119.81 | 126.72 |
| 12 | bL | 203 | CLA | CHC-C1C-C2C | -2.50 | 119.81 | 126.72 |
| 12 | aB | 908 | CLA | O2D-CGD-O1D | -2.50 | 118.96 | 123.84 |
| 12 | bB | 914 | CLA | CHC-C1C-C2C | -2.50 | 119.81 | 126.72 |
| 12 | aB | 914 | CLA | CHC-C1C-C2C | -2.50 | 119.82 | 126.72 |
| 12 | bA | 836 | CLA | O2D-CGD-O1D | -2.50 | 118.96 | 123.84 |
| 12 | bA | 840 | CLA | CAA-C2A-C3A | -2.49 | 105.95 | 112.78 |
| 12 | bA | 807 | CLA | CMB-C2B-C3B | 2.49 | 129.34 | 124.68 |
| 12 | aB | 912 | CLA | C1-C2-C3 | -2.49 | 121.73 | 126.04 |
| 12 | aA | 819 | CLA | C4-C3-C5 | 2.49 | 119.47 | 115.27 |
| 12 | aB | 923 | CLA | CHC-C1C-C2C | -2.49 | 119.82 | 126.72 |
| 12 | bB | 932 | CLA | CBC-CAC-C3C | -2.49 | 105.56 | 112.43 |
| 12 | aA | 836 | CLA | O2D-CGD-O1D | -2.49 | 118.96 | 123.84 |
| 12 | cB | 909 | CLA | C1-C2-C3 | -2.49 | 121.73 | 126.04 |
| 12 | cB | 912 | CLA | C1-C2-C3 | -2.49 | 121.73 | 126.04 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 803 | CLA | CAC-C3C-C4C | 2.49 | 128.04 | 124.81 |
| 12 | bB | 926 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 15 | aM | 101 | BCR | C27-C26-C25 | 2.49 | 126.35 | 122.73 |
| 12 | cB | 914 | CLA | CHC-C1C-C2C | -2.49 | 119.83 | 126.72 |
| 12 | bB | 904 | CLA | CBC-CAC-C3C | -2.49 | 105.56 | 112.43 |
| 12 | aA | 833 | CLA | CHB-C4A-NA | 2.49 | 127.96 | 124.51 |
| 12 | cA | 828 | CLA | C4A-NA-C1A | -2.49 | 105.59 | 106.71 |
| 12 | cA | 831 | CLA | CMB-C2B-C3B | 2.49 | 129.34 | 124.68 |
| 12 | aB | 932 | CLA | CBC-CAC-C3C | -2.49 | 105.56 | 112.43 |
| 12 | aA | 843 | CLA | CHD-C4C-NC | 2.49 | 128.13 | 124.20 |
| 12 | aA | 814 | CLA | CMC-C2C-C1C | 2.49 | 128.83 | 125.04 |
| 12 | cA | 804 | CLA | CHD-C4C-NC | 2.49 | 128.13 | 124.20 |
| 12 | cA | 838 | CLA | CBC-CAC-C3C | -2.49 | 105.57 | 112.43 |
| 12 | cB | 923 | CLA | O2A-CGA-O1A | -2.49 | 117.31 | 123.59 |
| 12 | cF | 202 | CLA | CHD-C4C-NC | 2.49 | 128.12 | 124.20 |
| 12 | bA | 814 | CLA | CMC-C2C-C1C | 2.49 | 128.83 | 125.04 |
| 12 | aA | 809 | CLA | O2D-CGD-O1D | -2.49 | 118.97 | 123.84 |
| 12 | bB | 938 | CLA | CHB-C4A-NA | 2.49 | 127.95 | 124.51 |
| 12 | bB | 932 | CLA | O2D-CGD-O1D | -2.49 | 118.97 | 123.84 |
| 15 | bA | 847 | BCR | C27-C26-C25 | 2.49 | 126.34 | 122.73 |
| 12 | cA | 809 | CLA | CAC-C3C-C4C | 2.49 | 128.04 | 124.81 |
| 12 | bA | 809 | CLA | O2D-CGD-O1D | -2.49 | 118.98 | 123.84 |
| 15 | bA | 847 | BCR | C11-C10-C9 | -2.49 | 123.76 | 127.31 |
| 15 | aA | 848 | BCR | C16-C15-C14 | -2.49 | 118.38 | 123.47 |
| 12 | cB | 908 | CLA | O2D-CGD-O1D | -2.49 | 118.98 | 123.84 |
| 15 | bA | 847 | BCR | C16-C15-C14 | -2.48 | 118.38 | 123.47 |
| 12 | cL | 203 | CLA | C3B-C4B-NB | 2.48 | 112.42 | 109.21 |
| 12 | bA | 802 | CLA | CMC-C2C-C1C | 2.48 | 128.82 | 125.04 |
| 12 | aA | 838 | CLA | CBC-CAC-C3C | -2.48 | 105.58 | 112.43 |
| 12 | aB | 904 | CLA | CBC-CAC-C3C | -2.48 | 105.58 | 112.43 |
| 12 | cB | 935 | CLA | CMC-C2C-C1C | 2.48 | 128.82 | 125.04 |
| 15 | cF | 204 | BCR | C27-C26-C25 | 2.48 | 126.33 | 122.73 |
| 12 | bB | 909 | CLA | C1-C2-C3 | -2.48 | 121.75 | 126.04 |
| 12 | cB | 904 | CLA | CBC-CAC-C3C | -2.48 | 105.59 | 112.43 |
| 12 | bA | 833 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 12 | aB | 901 | CLA | CAC-C3C-C4C | 2.48 | 128.03 | 124.81 |
| 12 | bB | 923 | CLA | CHC-C1C-C2C | -2.48 | 119.86 | 126.72 |
| 12 | cA | 807 | CLA | CMB-C2B-C3B | 2.48 | 129.32 | 124.68 |
| 12 | cB | 923 | CLA | CHC-C1C-C2C | -2.48 | 119.86 | 126.72 |
| 12 | aB | 912 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 12 | aA | 840 | CLA | CAA-C2A-C3A | -2.48 | 105.99 | 112.78 |
| 12 | bB | 930 | CLA | CAC-C3C-C4C | 2.48 | 128.03 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 930 | CLA | CAC-C3C-C4C | 2.48 | 128.03 | 124.81 |
| 12 | bB | 931 | CLA | CMB-C2B-C3B | 2.48 | 129.32 | 124.68 |
| 12 | aA | 821 | CLA | O2A-CGA-CBA | 2.48 | 119.69 | 111.91 |
| 12 | cB | 932 | CLA | CBC-CAC-C3C | -2.48 | 105.60 | 112.43 |
| 12 | bB | 908 | CLA | O2D-CGD-O1D | -2.48 | 118.99 | 123.84 |
| 15 | cA | 847 | BCR | C16-C15-C14 | -2.48 | 118.40 | 123.47 |
| 12 | bB | 909 | CLA | CMC-C2C-C1C | 2.48 | 128.81 | 125.04 |
| 12 | cA | 838 | CLA | CAC-C3C-C4C | 2.48 | 128.03 | 124.81 |
| 12 | cA | 803 | CLA | CAC-C3C-C4C | 2.48 | 128.02 | 124.81 |
| 12 | cB | 912 | CLA | CHB-C4A-NA | 2.48 | 127.94 | 124.51 |
| 12 | bA | 816 | CLA | CHD-C4C-NC | 2.48 | 128.11 | 124.20 |
| 12 | aB | 931 | CLA | CHC-C1C-C2C | -2.48 | 119.87 | 126.72 |
| 12 | cB | 916 | CLA | C4-C3-C5 | 2.48 | 119.44 | 115.27 |
| 12 | cA | 834 | CLA | CHD-C4C-NC | 2.48 | 128.10 | 124.20 |
| 12 | cA | 821 | CLA | O2A-CGA-CBA | 2.48 | 119.67 | 111.91 |
| 15 | cM | 101 | BCR | C7-C8-C9 | -2.47 | 122.50 | 126.23 |
| 12 | aB | 935 | CLA | CMC-C2C-C1C | 2.47 | 128.81 | 125.04 |
| 12 | cA | 803 | CLA | CMC-C2C-C1C | 2.47 | 128.81 | 125.04 |
| 12 | bB | 901 | CLA | CAC-C3C-C4C | 2.47 | 128.02 | 124.81 |
| 12 | cB | 938 | CLA | C4A-NA-C1A | -2.47 | 105.59 | 106.71 |
| 12 | cB | 910 | CLA | CED-O2D-CGD | 2.47 | 121.53 | 115.94 |
| 12 | aA | 804 | CLA | CHB-C4A-NA | 2.47 | 127.93 | 124.51 |
| 15 | bA | 846 | BCR | C35-C13-C14 | -2.47 | 119.46 | 122.92 |
| 12 | bA | 834 | CLA | CHD-C4C-NC | 2.47 | 128.10 | 124.20 |
| 12 | aA | 854 | CLA | O2A-CGA-O1A | -2.47 | 117.35 | 123.59 |
| 12 | cA | 816 | CLA | CHD-C4C-NC | 2.47 | 128.10 | 124.20 |
| 15 | aM | 101 | BCR | C7-C8-C9 | -2.47 | 122.50 | 126.23 |
| 12 | bA | 803 | CLA | CMC-C2C-C1C | 2.47 | 128.80 | 125.04 |
| 12 | bB | 916 | CLA | C4-C3-C5 | 2.47 | 119.42 | 115.27 |
| 15 | aF | 204 | BCR | C27-C26-C25 | 2.47 | 126.32 | 122.73 |
| 12 | bA | 803 | CLA | O2A-CGA-CBA | 2.47 | 119.65 | 111.91 |
| 12 | aA | 807 | CLA | CMB-C2B-C3B | 2.47 | 129.29 | 124.68 |
| 12 | cA | 808 | CLA | CBC-CAC-C3C | -2.47 | 105.63 | 112.43 |
| 12 | aA | 816 | CLA | CHD-C4C-NC | 2.47 | 128.09 | 124.20 |
| 12 | aA | 804 | CLA | C4-C3-C5 | 2.47 | 119.42 | 115.27 |
| 12 | aA | 831 | CLA | CAC-C3C-C4C | 2.47 | 128.01 | 124.81 |
| 12 | bF | 202 | CLA | CHD-C4C-NC | 2.47 | 128.09 | 124.20 |
| 12 | aB | 909 | CLA | C1-C2-C3 | -2.47 | 121.78 | 126.04 |
| 12 | aB | 909 | CLA | CMC-C2C-C1C | 2.47 | 128.79 | 125.04 |
| 12 | aA | 809 | CLA | CAC-C3C-C4C | 2.47 | 128.01 | 124.81 |
| 12 | bA | 831 | CLA | CAC-C3C-C4C | 2.47 | 128.01 | 124.81 |
| 15 | aF | 203 | BCR | C38-C26-C27 | -2.47 | 108.88 | 113.62 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 804 | CLA | C4-C3-C5 | 2.47 | 119.42 | 115.27 |
| 12 | cA | 843 | CLA | CBC-CAC-C3C | -2.46 | 105.64 | 112.43 |
| 12 | cA | 809 | CLA | O2D-CGD-O1D | -2.46 | 119.02 | 123.84 |
| 12 | cA | 853 | CLA | O2A-CGA-O1A | -2.46 | 117.37 | 123.59 |
| 12 | bB | 919 | CLA | CMC-C2C-C1C | 2.46 | 128.79 | 125.04 |
| 12 | bB | 931 | CLA | CHC-C1C-C2C | -2.46 | 119.91 | 126.72 |
| 12 | bA | 838 | CLA | CAC-C3C-C4C | 2.46 | 128.00 | 124.81 |
| 12 | bB | 935 | CLA | CMC-C2C-C1C | 2.46 | 128.79 | 125.04 |
| 12 | aA | 837 | CLA | O2D-CGD-O1D | -2.46 | 119.03 | 123.84 |
| 12 | bB | 923 | CLA | C1-C2-C3 | -2.46 | 121.79 | 126.04 |
| 12 | cB | 912 | CLA | O2A-CGA-O1A | -2.46 | 117.39 | 123.59 |
| 12 | bA | 840 | CLA | CHD-C4C-NC | 2.46 | 128.08 | 124.20 |
| 12 | aA | 843 | CLA | CBC-CAC-C3C | -2.46 | 105.65 | 112.43 |
| 12 | bA | 853 | CLA | O2A-CGA-O1A | -2.46 | 117.39 | 123.59 |
| 12 | bB | 908 | CLA | C4C-C3C-C2C | -2.46 | 103.31 | 106.90 |
| 12 | aB | 913 | CLA | CBC-CAC-C3C | -2.46 | 105.65 | 112.43 |
| 12 | bA | 808 | CLA | CBC-CAC-C3C | -2.46 | 105.65 | 112.43 |
| 12 | bA | 843 | CLA | CBC-CAC-C3C | -2.46 | 105.65 | 112.43 |
| 12 | bB | 913 | CLA | CBC-CAC-C3C | -2.46 | 105.65 | 112.43 |
| 12 | aA | 803 | CLA | O2A-CGA-CBA | 2.46 | 119.62 | 111.91 |
| 12 | cA | 804 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 12 | bB | 910 | CLA | CED-O2D-CGD | 2.46 | 121.50 | 115.94 |
| 12 | bB | 912 | CLA | CHB-C4A-NA | 2.46 | 127.91 | 124.51 |
| 12 | cA | 814 | CLA | CMC-C2C-C1C | 2.46 | 128.78 | 125.04 |
| 12 | cB | 931 | CLA | CHC-C1C-C2C | -2.46 | 119.92 | 126.72 |
| 15 | bF | 203 | BCR | C38-C26-C27 | -2.46 | 108.90 | 113.62 |
| 12 | cA | 837 | CLA | O2D-CGD-O1D | -2.46 | 119.03 | 123.84 |
| 12 | aA | 834 | CLA | CHD-C4C-NC | 2.46 | 128.07 | 124.20 |
| 12 | bA | 809 | CLA | CAC-C3C-C4C | 2.46 | 128.00 | 124.81 |
| 12 | aB | 908 | CLA | C4C-C3C-C2C | -2.45 | 103.32 | 106.90 |
| 12 | bA | 821 | CLA | O2A-CGA-CBA | 2.45 | 119.61 | 111.91 |
| 15 | cA | 846 | BCR | C35-C13-C14 | -2.45 | 119.48 | 122.92 |
| 12 | cA | 803 | CLA | O2A-CGA-CBA | 2.45 | 119.61 | 111.91 |
| 12 | cB | 923 | CLA | C1-C2-C3 | -2.45 | 121.80 | 126.04 |
| 12 | bB | 916 | CLA | CHC-C1C-C2C | -2.45 | 119.94 | 126.72 |
| 12 | aB | 919 | CLA | O1D-CGD-CBD | -2.45 | 119.47 | 124.48 |
| 12 | cB | 906 | CLA | C4-C3-C5 | 2.45 | 119.39 | 115.27 |
| 12 | cB | 928 | CLA | CMD-C2D-C3D | -2.45 | 121.97 | 127.61 |
| 12 | cA | 806 | CLA | O2A-CGA-CBA | 2.45 | 119.60 | 111.91 |
| 12 | aA | 840 | CLA | CHD-C4C-NC | 2.45 | 128.07 | 124.20 |
| 12 | aB | 923 | CLA | C1-C2-C3 | -2.45 | 121.80 | 126.04 |
| 12 | aB | 928 | CLA | CMD-C2D-C3D | -2.45 | 121.98 | 127.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 804 | CLA | C4-C3-C5 | 2.45 | 119.39 | 115.27 |
| 12 | cL | 203 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 12 | bB | 928 | CLA | CMD-C2D-C3D | -2.45 | 121.98 | 127.61 |
| 12 | aA | 823 | CLA | CBC-CAC-C3C | -2.45 | 105.68 | 112.43 |
| 15 | cF | 203 | BCR | C38-C26-C27 | -2.45 | 108.91 | 113.62 |
| 12 | aB | 930 | CLA | CAC-C3C-C4C | 2.45 | 127.99 | 124.81 |
| 15 | cA | 849 | BCR | C27-C26-C25 | 2.45 | 126.29 | 122.73 |
| 12 | cB | 909 | CLA | CMC-C2C-C1C | 2.45 | 128.77 | 125.04 |
| 12 | cB | 907 | CLA | CHB-C4A-NA | 2.45 | 127.90 | 124.51 |
| 12 | cB | 919 | CLA | CMC-C2C-C1C | 2.45 | 128.77 | 125.04 |
| 12 | bA | 837 | CLA | O2D-CGD-O1D | -2.45 | 119.05 | 123.84 |
| 15 | aA | 848 | BCR | C38-C26-C27 | -2.45 | 108.92 | 113.62 |
| 12 | bA | 842 | CLA | CHB-C4A-NA | 2.45 | 127.89 | 124.51 |
| 12 | cB | 908 | CLA | C4C-C3C-C2C | -2.45 | 103.33 | 106.90 |
| 12 | cB | 916 | CLA | CHC-C1C-C2C | -2.44 | 119.96 | 126.72 |
| 12 | bA | 828 | CLA | C4A-NA-C1A | -2.44 | 105.61 | 106.71 |
| 12 | aF | 202 | CLA | CHD-C4C-NC | 2.44 | 128.06 | 124.20 |
| 15 | bA | 847 | BCR | C38-C26-C27 | -2.44 | 108.92 | 113.62 |
| 12 | aA | 808 | CLA | CBC-CAC-C3C | -2.44 | 105.69 | 112.43 |
| 11 | aA | 801 | CL0 | CHB-C4A-NA | 2.44 | 127.89 | 124.51 |
| 12 | bL | 203 | CLA | CHB-C4A-NA | 2.44 | 127.89 | 124.51 |
| 12 | bA | 825 | CLA | O2D-CGD-O1D | -2.44 | 119.06 | 123.84 |
| 12 | cB | 913 | CLA | CBC-CAC-C3C | -2.44 | 105.70 | 112.43 |
| 12 | bB | 909 | CLA | CED-O2D-CGD | 2.44 | 121.46 | 115.94 |
| 12 | aB | 916 | CLA | CHC-C1C-C2C | -2.44 | 119.97 | 126.72 |
| 12 | bB | 924 | CLA | O1D-CGD-CBD | -2.44 | 119.49 | 124.48 |
| 12 | cB | 917 | CLA | C4C-C3C-C2C | -2.44 | 103.34 | 106.90 |
| 15 | cF | 204 | BCR | C15-C14-C13 | -2.44 | 123.83 | 127.31 |
| 12 | cB | 929 | CLA | O1D-CGD-CBD | -2.44 | 119.49 | 124.48 |
| 12 | bA | 806 | CLA | O2A-CGA-CBA | 2.44 | 119.57 | 111.91 |
| 12 | bB | 911 | CLA | CHD-C4C-NC | 2.44 | 128.05 | 124.20 |
| 12 | bB | 906 | CLA | C4-C3-C5 | 2.44 | 119.38 | 115.27 |
| 12 | aA | 806 | CLA | O2A-CGA-CBA | 2.44 | 119.57 | 111.91 |
| 12 | aB | 911 | CLA | CHD-C4C-NC | 2.44 | 128.05 | 124.20 |
| 12 | cA | 817 | CLA | CAC-C3C-C4C | 2.44 | 127.98 | 124.81 |
| 12 | aB | 909 | CLA | CAA-C2A-C3A | -2.44 | 106.10 | 112.78 |
| 12 | cA | 825 | CLA | O2D-CGD-O1D | -2.44 | 119.07 | 123.84 |
| 15 | bF | 204 | BCR | C27-C26-C25 | 2.44 | 126.27 | 122.73 |
| 12 | cB | 909 | CLA | CAA-C2A-C3A | -2.44 | 106.10 | 112.78 |
| 12 | aB | 934 | CLA | CAC-C3C-C4C | 2.44 | 127.97 | 124.81 |
| 12 | aL | 203 | CLA | CHB-C4A-NA | 2.44 | 127.89 | 124.51 |
| 12 | cA | 842 | CLA | O2D-CGD-O1D | -2.44 | 119.07 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 916 | CLA | C4-C3-C5 | 2.44 | 119.37 | 115.27 |
| 12 | cB | 934 | CLA | CAC-C3C-C4C | 2.44 | 127.97 | 124.81 |
| 12 | cA | 823 | CLA | CMC-C2C-C1C | 2.44 | 128.75 | 125.04 |
| 12 | bB | 909 | CLA | CAA-C2A-C3A | -2.44 | 106.10 | 112.78 |
| 12 | aA | 817 | CLA | CAC-C3C-C4C | 2.44 | 127.97 | 124.81 |
| 12 | aA | 840 | CLA | CHB-C4A-NA | 2.44 | 127.88 | 124.51 |
| 12 | aA | 803 | CLA | CMC-C2C-C1C | 2.44 | 128.75 | 125.04 |
| 12 | bA | 811 | CLA | O2D-CGD-O1D | -2.44 | 119.07 | 123.84 |
| 12 | bA | 842 | CLA | O2D-CGD-O1D | -2.44 | 119.07 | 123.84 |
| 12 | cA | 811 | CLA | O2D-CGD-O1D | -2.44 | 119.07 | 123.84 |
| 12 | aA | 835 | CLA | CED-O2D-CGD | 2.44 | 121.45 | 115.94 |
| 12 | aB | 912 | CLA | O2A-CGA-O1A | -2.44 | 117.44 | 123.59 |
| 12 | cA | 831 | CLA | CAC-C3C-C4C | 2.44 | 127.97 | 124.81 |
| 12 | aB | 924 | CLA | CMC-C2C-C1C | 2.44 | 128.75 | 125.04 |
| 12 | aA | 825 | CLA | O2D-CGD-O1D | -2.44 | 119.08 | 123.84 |
| 12 | aB | 910 | CLA | CED-O2D-CGD | 2.44 | 121.45 | 115.94 |
| 17 | cB | 947 | LMG | C1-C2-C3 | -2.44 | 104.92 | 110.00 |
| 12 | bB | 908 | CLA | C4A-NA-C1A | -2.44 | 105.61 | 106.71 |
| 12 | aA | 811 | CLA | O2D-CGD-O1D | -2.43 | 119.08 | 123.84 |
| 12 | bB | 912 | CLA | O2A-CGA-O1A | -2.43 | 117.45 | 123.59 |
| 15 | cA | 846 | BCR | C27-C26-C25 | 2.43 | 126.26 | 122.73 |
| 12 | aB | 924 | CLA | O1D-CGD-CBD | -2.43 | 119.50 | 124.48 |
| 12 | cB | 924 | CLA | O1D-CGD-CBD | -2.43 | 119.50 | 124.48 |
| 12 | cB | 935 | CLA | O2A-CGA-O1A | -2.43 | 117.45 | 123.59 |
| 12 | cB | 905 | CLA | CHC-C1C-C2C | -2.43 | 119.99 | 126.72 |
| 12 | aA | 830 | CLA | O2A-CGA-CBA | 2.43 | 119.54 | 111.91 |
| 12 | bB | 929 | CLA | O1D-CGD-CBD | -2.43 | 119.51 | 124.48 |
| 17 | aB | 947 | LMG | C1-C2-C3 | -2.43 | 104.93 | 110.00 |
| 12 | aB | 917 | CLA | C4C-C3C-C2C | -2.43 | 103.35 | 106.90 |
| 12 | aB | 919 | CLA | CMC-C2C-C1C | 2.43 | 128.74 | 125.04 |
| 12 | aB | 909 | CLA | CED-O2D-CGD | 2.43 | 121.44 | 115.94 |
| 12 | aB | 929 | CLA | O1D-CGD-CBD | -2.43 | 119.51 | 124.48 |
| 12 | aA | 838 | CLA | CAC-C3C-C4C | 2.43 | 127.97 | 124.81 |
| 12 | cA | 823 | CLA | CBC-CAC-C3C | -2.43 | 105.73 | 112.43 |
| 12 | cB | 909 | CLA | CED-O2D-CGD | 2.43 | 121.44 | 115.94 |
| 11 | bA | 801 | CL0 | O2D-CGD-O1D | -2.43 | 119.09 | 123.84 |
| 12 | cA | 835 | CLA | CED-O2D-CGD | 2.43 | 121.43 | 115.94 |
| 17 | bB | 947 | LMG | C1-C2-C3 | -2.43 | 104.94 | 110.00 |
| 12 | aA | 842 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 12 | cA | 840 | CLA | CHD-C4C-NC | 2.43 | 128.03 | 124.20 |
| 12 | aB | 935 | CLA | O2A-CGA-O1A | -2.43 | 117.46 | 123.59 |
| 11 | aA | 801 | CL0 | O2D-CGD-O1D | -2.43 | 119.09 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 840 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 15 | bA | 849 | BCR | C27-C26-C25 | 2.43 | 126.25 | 122.73 |
| 12 | aB | 907 | CLA | O1D-CGD-CBD | -2.43 | 119.52 | 124.48 |
| 12 | cA | 842 | CLA | CHB-C4A-NA | 2.43 | 127.87 | 124.51 |
| 12 | bB | 917 | CLA | C4C-C3C-C2C | -2.43 | 103.36 | 106.90 |
| 12 | cB | 919 | CLA | O1D-CGD-CBD | -2.43 | 119.52 | 124.48 |
| 12 | aA | 832 | CLA | CBC-CAC-C3C | -2.43 | 105.74 | 112.43 |
| 12 | bA | 823 | CLA | CBC-CAC-C3C | -2.43 | 105.74 | 112.43 |
| 15 | aA | 850 | BCR | C27-C26-C25 | 2.43 | 126.25 | 122.73 |
| 12 | bB | 924 | CLA | CMC-C2C-C1C | 2.42 | 128.73 | 125.04 |
| 12 | cA | 832 | CLA | CBC-CAC-C3C | -2.42 | 105.75 | 112.43 |
| 12 | aB | 909 | CLA | C4-C3-C5 | 2.42 | 119.35 | 115.27 |
| 15 | cA | 847 | BCR | C38-C26-C27 | -2.42 | 108.96 | 113.62 |
| 12 | cB | 924 | CLA | CMC-C2C-C1C | 2.42 | 128.73 | 125.04 |
| 12 | bA | 809 | CLA | O1D-CGD-CBD | -2.42 | 119.53 | 124.48 |
| 12 | cB | 916 | CLA | C3B-C4B-NB | 2.42 | 112.34 | 109.21 |
| 12 | bB | 935 | CLA | O2A-CGA-O1A | -2.42 | 117.48 | 123.59 |
| 12 | bB | 934 | CLA | CAC-C3C-C4C | 2.42 | 127.95 | 124.81 |
| 12 | aA | 842 | CLA | O2D-CGD-O1D | -2.42 | 119.10 | 123.84 |
| 12 | bB | 905 | CLA | CMB-C2B-C3B | 2.42 | 129.21 | 124.68 |
| 12 | bB | 905 | CLA | CHC-C1C-C2C | -2.42 | 120.02 | 126.72 |
| 12 | cA | 807 | CLA | O2A-CGA-O1A | -2.42 | 117.48 | 123.59 |
| 12 | bB | 907 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 12 | cA | 835 | CLA | CHD-C4C-NC | 2.42 | 128.02 | 124.20 |
| 12 | aA | 809 | CLA | O1D-CGD-CBD | -2.42 | 119.53 | 124.48 |
| 12 | cB | 909 | CLA | C4-C3-C5 | 2.42 | 119.34 | 115.27 |
| 15 | bM | 101 | BCR | C33-C5-C6 | -2.42 | 121.81 | 124.53 |
| 12 | aB | 907 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 12 | bB | 909 | CLA | C4-C3-C5 | 2.42 | 119.34 | 115.27 |
| 12 | cA | 820 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 12 | aB | 905 | CLA | CHC-C1C-C2C | -2.42 | 120.03 | 126.72 |
| 12 | aB | 906 | CLA | C4-C3-C5 | 2.42 | 119.34 | 115.27 |
| 12 | bA | 835 | CLA | CED-O2D-CGD | 2.42 | 121.41 | 115.94 |
| 12 | cA | 819 | CLA | CMC-C2C-C1C | 2.42 | 128.72 | 125.04 |
| 12 | cA | 821 | CLA | CHD-C4C-NC | 2.42 | 128.01 | 124.20 |
| 12 | bA | 823 | CLA | CMC-C2C-C1C | 2.42 | 128.72 | 125.04 |
| 12 | aA | 828 | CLA | CHB-C4A-NA | 2.42 | 127.86 | 124.51 |
| 12 | bB | 919 | CLA | O1D-CGD-CBD | -2.42 | 119.54 | 124.48 |
| 12 | bA | 807 | CLA | O2A-CGA-O1A | -2.42 | 117.49 | 123.59 |
| 11 | cA | 801 | CL0 | O2D-CGD-O1D | -2.42 | 119.11 | 123.84 |
| 15 | cA | 846 | BCR | C38-C26-C27 | -2.42 | 108.97 | 113.62 |
| 12 | aA | 823 | CLA | CMC-C2C-C1C | 2.42 | 128.72 | 125.04 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 809 | CLA | O1D-CGD-CBD | -2.42 | 119.54 | 124.48 |
| 12 | bA | 832 | CLA | CBC-CAC-C3C | -2.42 | 105.77 | 112.43 |
| 12 | aB | 908 | CLA | O2A-CGA-CBA | 2.42 | 119.49 | 111.91 |
| 12 | cA | 830 | CLA | O2A-CGA-CBA | 2.42 | 119.49 | 111.91 |
| 12 | bA | 840 | CLA | CHB-C4A-NA | 2.42 | 127.85 | 124.51 |
| 12 | cB | 907 | CLA | O1D-CGD-CBD | -2.41 | 119.54 | 124.48 |
| 12 | cB | 905 | CLA | CMB-C2B-C3B | 2.41 | 129.19 | 124.68 |
| 12 | aL | 203 | CLA | CHD-C4C-NC | 2.41 | 128.01 | 124.20 |
| 12 | bL | 203 | CLA | CHD-C4C-NC | 2.41 | 128.01 | 124.20 |
| 12 | cB | 908 | CLA | O2A-CGA-CBA | 2.41 | 119.48 | 111.91 |
| 12 | aB | 931 | CLA | O2A-CGA-O1A | -2.41 | 117.50 | 123.59 |
| 11 | bA | 801 | CL0 | C1-O2A-CGA | 2.41 | 122.77 | 116.44 |
| 12 | aB | 913 | CLA | C1-C2-C3 | -2.41 | 121.87 | 126.04 |
| 15 | cA | 848 | BCR | C24-C23-C22 | -2.41 | 122.59 | 126.23 |
| 11 | aA | 801 | CL0 | C1-O2A-CGA | 2.41 | 122.77 | 116.44 |
| 15 | aA | 847 | BCR | C35-C13-C14 | -2.41 | 119.55 | 122.92 |
| 12 | bA | 835 | CLA | CHD-C4C-NC | 2.41 | 128.00 | 124.20 |
| 12 | cL | 203 | CLA | CHD-C4C-NC | 2.41 | 128.00 | 124.20 |
| 15 | bF | 204 | BCR | C15-C14-C13 | -2.41 | 123.87 | 127.31 |
| 12 | bB | 908 | CLA | O2A-CGA-CBA | 2.41 | 119.47 | 111.91 |
| 15 | bA | 846 | BCR | C38-C26-C27 | -2.41 | 108.99 | 113.62 |
| 12 | aA | 830 | CLA | CAA-C2A-C3A | -2.41 | 106.18 | 112.78 |
| 12 | aA | 835 | CLA | CHD-C4C-NC | 2.41 | 128.00 | 124.20 |
| 12 | bA | 828 | CLA | CHB-C4A-NA | 2.41 | 127.84 | 124.51 |
| 15 | aA | 847 | BCR | C38-C26-C27 | -2.41 | 108.99 | 113.62 |
| 12 | bB | 907 | CLA | O1D-CGD-CBD | -2.41 | 119.56 | 124.48 |
| 12 | bB | 916 | CLA | C3B-C4B-NB | 2.41 | 112.32 | 109.21 |
| 12 | aB | 936 | CLA | C1-C2-C3 | -2.41 | 121.88 | 126.04 |
| 11 | bA | 801 | CL0 | CHB-C4A-NA | 2.41 | 127.84 | 124.51 |
| 12 | bB | 913 | CLA | C1-C2-C3 | -2.41 | 121.88 | 126.04 |
| 11 | bA | 801 | CL0 | C1-C2-C3 | -2.41 | 121.88 | 126.04 |
| 12 | cB | 926 | CLA | O2D-CGD-O1D | -2.40 | 119.14 | 123.84 |
| 12 | cB | 908 | CLA | C4A-NA-C1A | -2.40 | 105.62 | 106.71 |
| 12 | aA | 821 | CLA | CHD-C4C-NC | 2.40 | 127.99 | 124.20 |
| 12 | aA | 824 | CLA | O2A-CGA-CBA | 2.40 | 119.45 | 111.91 |
| 12 | bA | 820 | CLA | CMC-C2C-C1C | 2.40 | 128.70 | 125.04 |
| 12 | aA | 807 | CLA | O2A-CGA-O1A | -2.40 | 117.53 | 123.59 |
| 11 | cA | 801 | CL0 | C1-O2A-CGA | 2.40 | 122.75 | 116.44 |
| 12 | bA | 830 | CLA | O2A-CGA-CBA | 2.40 | 119.45 | 111.91 |
| 12 | cA | 842 | CLA | C1-C2-C3 | -2.40 | 121.89 | 126.04 |
| 12 | aB | 905 | CLA | CMB-C2B-C3B | 2.40 | 129.18 | 124.68 |
| 12 | bA | 830 | CLA | CAA-C2A-C3A | -2.40 | 106.20 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cA | 830 | CLA | CAA-C2A-C3A | -2.40 | 106.20 | 112.78 |
| 12 | aB | 916 | CLA | C3B-C4B-NB | 2.40 | 112.32 | 109.21 |
| 12 | bB | 936 | CLA | C1-C2-C3 | -2.40 | 121.89 | 126.04 |
| 15 | aF | 204 | BCR | C15-C14-C13 | -2.40 | 123.88 | 127.31 |
| 12 | aA | 833 | CLA | O2A-CGA-CBA | 2.40 | 119.44 | 111.91 |
| 12 | bA | 817 | CLA | CAC-C3C-C4C | 2.40 | 127.92 | 124.81 |
| 15 | aA | 848 | BCR | C16-C17-C18 | -2.40 | 123.89 | 127.31 |
| 12 | aB | 933 | CLA | CBC-CAC-C3C | -2.40 | 105.82 | 112.43 |
| 12 | cA | 821 | CLA | CMC-C2C-C1C | 2.40 | 128.69 | 125.04 |
| 12 | aA | 842 | CLA | C1-C2-C3 | -2.40 | 121.89 | 126.04 |
| 12 | bA | 827 | CLA | OBD-CAD-C3D | -2.40 | 122.75 | 128.52 |
| 12 | bA | 833 | CLA | O2A-CGA-CBA | 2.40 | 119.43 | 111.91 |
| 12 | bA | 824 | CLA | O2A-CGA-CBA | 2.40 | 119.43 | 111.91 |
| 15 | bB | 946 | BCR | C29-C30-C25 | 2.40 | 114.17 | 110.48 |
| 12 | bA | 821 | CLA | CHD-C4C-NC | 2.40 | 127.98 | 124.20 |
| 15 | aA | 849 | BCR | C24-C23-C22 | -2.40 | 122.61 | 126.23 |
| 12 | aF | 202 | CLA | O1D-CGD-CBD | -2.40 | 119.58 | 124.48 |
| 12 | cA | 828 | CLA | CHB-C4A-NA | 2.40 | 127.83 | 124.51 |
| 12 | bA | 833 | CLA | CAA-C2A-C3A | -2.40 | 106.22 | 112.78 |
| 11 | aA | 801 | CL0 | C1-C2-C3 | -2.40 | 121.90 | 126.04 |
| 15 | cF | 201 | BCR | C15-C16-C17 | -2.40 | 118.57 | 123.47 |
| 15 | bB | 946 | BCR | C38-C26-C27 | -2.40 | 109.02 | 113.62 |
| 15 | bA | 847 | BCR | C16-C17-C18 | -2.39 | 123.89 | 127.31 |
| 12 | cA | 824 | CLA | O2A-CGA-CBA | 2.39 | 119.42 | 111.91 |
| 12 | cB | 913 | CLA | C1-C2-C3 | -2.39 | 121.90 | 126.04 |
| 12 | bA | 829 | CLA | CMC-C2C-C1C | 2.39 | 128.68 | 125.04 |
| 12 | bA | 819 | CLA | CMC-C2C-C1C | 2.39 | 128.68 | 125.04 |
| 12 | cA | 815 | CLA | O2D-CGD-O1D | -2.39 | 119.16 | 123.84 |
| 12 | aA | 820 | CLA | CMC-C2C-C1C | 2.39 | 128.68 | 125.04 |
| 12 | cA | 820 | CLA | CMC-C2C-C1C | 2.39 | 128.68 | 125.04 |
| 12 | cB | 911 | CLA | CHD-C4C-NC | 2.39 | 127.97 | 124.20 |
| 12 | aA | 816 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 15 | aA | 847 | BCR | C27-C26-C25 | 2.39 | 126.20 | 122.73 |
| 15 | bF | 204 | BCR | C24-C23-C22 | -2.39 | 122.62 | 126.23 |
| 12 | aA | 810 | CLA | CED-O2D-CGD | 2.39 | 121.34 | 115.94 |
| 12 | cB | 901 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 12 | bB | 939 | CLA | CED-O2D-CGD | 2.39 | 121.34 | 115.94 |
| 15 | bA | 848 | BCR | C24-C23-C22 | -2.39 | 122.62 | 126.23 |
| 12 | bA | 816 | CLA | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |
| 12 | bB | 926 | CLA | O2D-CGD-O1D | -2.39 | 119.17 | 123.84 |
| 15 | bA | 846 | BCR | C27-C26-C25 | 2.39 | 126.20 | 122.73 |
| 11 | cA | 801 | CL0 | CHB-C4A-NA | 2.39 | 127.82 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cF | 202 | CLA | O1D-CGD-CBD | -2.39 | 119.60 | 124.48 |
| 12 | aA | 828 | CLA | C4A-NA-C1A | -2.39 | 105.63 | 106.71 |
| 12 | bB | 931 | CLA | O2A-CGA-O1A | -2.39 | 117.56 | 123.59 |
| 12 | aB | 901 | CLA | CHB-C4A-NA | 2.39 | 127.81 | 124.51 |
| 12 | cA | 816 | CLA | CHB-C4A-NA | 2.39 | 127.81 | 124.51 |
| 12 | cA | 813 | CLA | CHD-C4C-NC | 2.39 | 127.97 | 124.20 |
| 12 | aB | 929 | CLA | CMC-C2C-C1C | 2.39 | 128.68 | 125.04 |
| 11 | cA | 801 | CL0 | C1-C2-C3 | -2.39 | 121.91 | 126.04 |
| 12 | cA | 810 | CLA | CED-O2D-CGD | 2.39 | 121.34 | 115.94 |
| 15 | cF | 203 | BCR | C30-C25-C26 | -2.39 | 119.25 | 122.61 |
| 12 | cB | 931 | CLA | O2A-CGA-O1A | -2.39 | 117.57 | 123.59 |
| 12 | bF | 202 | CLA | O1D-CGD-CBD | -2.39 | 119.60 | 124.48 |
| 12 | aB | 911 | CLA | O2A-CGA-CBA | 2.38 | 121.69 | 114.03 |
| 12 | bA | 842 | CLA | C1-C2-C3 | -2.38 | 121.92 | 126.04 |
| 15 | cB | 944 | BCR | C30-C25-C26 | -2.38 | 119.26 | 122.61 |
| 15 | bL | 201 | BCR | C27-C26-C25 | 2.38 | 126.19 | 122.73 |
| 12 | cA | 833 | CLA | O2A-CGA-CBA | 2.38 | 119.39 | 111.91 |
| 15 | aF | 203 | BCR | C30-C25-C26 | -2.38 | 119.26 | 122.61 |
| 12 | cA | 827 | CLA | OBD-CAD-C3D | -2.38 | 122.79 | 128.52 |
| 15 | aF | 201 | BCR | C15-C16-C17 | -2.38 | 118.59 | 123.47 |
| 12 | aA | 819 | CLA | CMC-C2C-C1C | 2.38 | 128.67 | 125.04 |
| 12 | bA | 812 | CLA | CMB-C2B-C3B | 2.38 | 129.13 | 124.68 |
| 12 | aB | 926 | CLA | O1D-CGD-CBD | -2.38 | 119.61 | 124.48 |
| 12 | cA | 829 | CLA | C4-C3-C5 | 2.38 | 119.28 | 115.27 |
| 12 | cB | 936 | CLA | C1-C2-C3 | -2.38 | 121.92 | 126.04 |
| 12 | cB | 933 | CLA | CBC-CAC-C3C | -2.38 | 105.87 | 112.43 |
| 15 | aB | 946 | BCR | C38-C26-C27 | -2.38 | 109.04 | 113.62 |
| 15 | bF | 201 | BCR | C15-C16-C17 | -2.38 | 118.60 | 123.47 |
| 12 | aA | 818 | CLA | CHB-C4A-NA | 2.38 | 127.80 | 124.51 |
| 12 | bA | 829 | CLA | C4-C3-C5 | 2.38 | 119.27 | 115.27 |
| 12 | cB | 929 | CLA | CMC-C2C-C1C | 2.38 | 128.66 | 125.04 |
| 12 | cB | 931 | CLA | CHD-C4C-NC | 2.38 | 127.95 | 124.20 |
| 12 | aA | 827 | CLA | OBD-CAD-C3D | -2.38 | 122.80 | 128.52 |
| 12 | bA | 808 | CLA | C1-C2-C3 | -2.38 | 121.93 | 126.04 |
| 12 | bA | 820 | CLA | CHB-C4A-NA | 2.38 | 127.80 | 124.51 |
| 12 | bB | 924 | CLA | CHB-C4A-NA | 2.38 | 127.80 | 124.51 |
| 15 | cB | 946 | BCR | C29-C30-C25 | 2.38 | 114.14 | 110.48 |
| 12 | bA | 810 | CLA | CED-O2D-CGD | 2.38 | 121.31 | 115.94 |
| 12 | aA | 823 | CLA | CAA-C2A-C3A | -2.38 | 106.27 | 112.78 |
| 15 | cB | 946 | BCR | C38-C26-C27 | -2.38 | 109.05 | 113.62 |
| 12 | aA | 833 | CLA | CAA-C2A-C3A | -2.38 | 106.27 | 112.78 |
| 15 | aB | 946 | BCR | C29-C30-C25 | 2.38 | 114.14 | 110.48 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 933 | CLA | CBC-CAC-C3C | -2.38 | 105.88 | 112.43 |
| 12 | aB | 927 | CLA | CMA-C3A-C2A | -2.38 | 104.25 | 113.83 |
| 12 | aA | 829 | CLA | C4-C3-C5 | 2.37 | 119.27 | 115.27 |
| 12 | cB | 939 | CLA | CED-O2D-CGD | 2.37 | 121.31 | 115.94 |
| 12 | aA | 820 | CLA | CHB-C4A-NA | 2.37 | 127.80 | 124.51 |
| 15 | aF | 201 | BCR | C16-C15-C14 | -2.37 | 118.61 | 123.47 |
| 15 | cF | 204 | BCR | C24-C23-C22 | -2.37 | 122.65 | 126.23 |
| 12 | bA | 815 | CLA | O2D-CGD-O1D | -2.37 | 119.20 | 123.84 |
| 12 | bB | 932 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 12 | cB | 922 | CLA | CED-O2D-CGD | 2.37 | 121.31 | 115.94 |
| 12 | aA | 815 | CLA | O2D-CGD-O1D | -2.37 | 119.20 | 123.84 |
| 12 | aA | 829 | CLA | CMC-C2C-C1C | 2.37 | 128.65 | 125.04 |
| 12 | cB | 911 | CLA | O2A-CGA-CBA | 2.37 | 121.65 | 114.03 |
| 15 | cF | 201 | BCR | C16-C15-C14 | -2.37 | 118.61 | 123.47 |
| 12 | bB | 911 | CLA | O2A-CGA-CBA | 2.37 | 121.65 | 114.03 |
| 12 | bB | 901 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 15 | cM | 101 | BCR | C33-C5-C6 | -2.37 | 121.86 | 124.53 |
| 12 | aB | 936 | CLA | C4-C3-C5 | 2.37 | 119.26 | 115.27 |
| 12 | aB | 908 | CLA | C4A-NA-C1A | -2.37 | 105.64 | 106.71 |
| 12 | bA | 823 | CLA | CAA-C2A-C3A | -2.37 | 106.29 | 112.78 |
| 12 | aB | 939 | CLA | CED-O2D-CGD | 2.37 | 121.30 | 115.94 |
| 12 | aA | 815 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 12 | aA | 821 | CLA | CMC-C2C-C1C | 2.37 | 128.65 | 125.04 |
| 12 | cA | 833 | CLA | CAA-C2A-C3A | -2.37 | 106.29 | 112.78 |
| 12 | aA | 834 | CLA | CMA-C3A-C2A | -2.37 | 104.27 | 113.83 |
| 12 | cA | 839 | CLA | CMC-C2C-C1C | 2.37 | 128.65 | 125.04 |
| 12 | cA | 823 | CLA | CAA-C2A-C3A | -2.37 | 106.29 | 112.78 |
| 12 | cA | 812 | CLA | CMB-C2B-C3B | 2.37 | 129.11 | 124.68 |
| 15 | aB | 944 | BCR | C30-C25-C26 | -2.37 | 119.28 | 122.61 |
| 15 | cL | 206 | BCR | C16-C15-C14 | -2.37 | 118.62 | 123.47 |
| 12 | bL | 202 | CLA | CMC-C2C-C1C | 2.37 | 128.65 | 125.04 |
| 12 | cA | 815 | CLA | CHB-C4A-NA | 2.37 | 127.79 | 124.51 |
| 15 | aB | 943 | BCR | C27-C26-C25 | 2.37 | 126.17 | 122.73 |
| 15 | bF | 203 | BCR | C30-C25-C26 | -2.37 | 119.28 | 122.61 |
| 12 | aB | 929 | CLA | CBC-CAC-C3C | -2.37 | 105.91 | 112.43 |
| 12 | bB | 926 | CLA | O1D-CGD-CBD | -2.36 | 119.64 | 124.48 |
| 12 | bB | 910 | CLA | CBC-CAC-C3C | -2.36 | 105.91 | 112.43 |
| 15 | bL | 206 | BCR | C16-C15-C14 | -2.36 | 118.63 | 123.47 |
| 12 | aB | 932 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 12 | bA | 839 | CLA | CAC-C3C-C4C | 2.36 | 127.88 | 124.81 |
| 12 | bB | 929 | CLA | CMC-C2C-C1C | 2.36 | 128.64 | 125.04 |
| 12 | cB | 937 | CLA | CHD-C4C-NC | 2.36 | 127.93 | 124.20 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 910 | CLA | CBC-CAC-C3C | -2.36 | 105.92 | 112.43 |
| 12 | aA | 812 | CLA | CMB-C2B-C3B | 2.36 | 129.10 | 124.68 |
| 12 | bB | 937 | CLA | CHD-C4C-NC | 2.36 | 127.93 | 124.20 |
| 12 | aA | 839 | CLA | CAC-C3C-C4C | 2.36 | 127.88 | 124.81 |
| 12 | cA | 834 | CLA | O1D-CGD-CBD | -2.36 | 119.65 | 124.48 |
| 15 | cA | 847 | BCR | C16-C17-C18 | -2.36 | 123.94 | 127.31 |
| 15 | aA | 847 | BCR | C15-C16-C17 | -2.36 | 118.64 | 123.47 |
| 12 | aB | 924 | CLA | CHB-C4A-NA | 2.36 | 127.78 | 124.51 |
| 12 | cA | 834 | CLA | CMA-C3A-C2A | -2.36 | 104.31 | 113.83 |
| 12 | bA | 834 | CLA | O1D-CGD-CBD | -2.36 | 119.66 | 124.48 |
| 12 | bA | 839 | CLA | CMC-C2C-C1C | 2.36 | 128.63 | 125.04 |
| 12 | cA | 829 | CLA | CMC-C2C-C1C | 2.36 | 128.63 | 125.04 |
| 12 | bB | 922 | CLA | CED-O2D-CGD | 2.36 | 121.27 | 115.94 |
| 15 | cB | 943 | BCR | C27-C26-C25 | 2.36 | 126.16 | 122.73 |
| 12 | aB | 922 | CLA | CED-O2D-CGD | 2.36 | 121.27 | 115.94 |
| 12 | bB | 927 | CLA | CMA-C3A-C2A | -2.36 | 104.32 | 113.83 |
| 12 | cB | 927 | CLA | CMA-C3A-C2A | -2.36 | 104.32 | 113.83 |
| 12 | bA | 821 | CLA | CMC-C2C-C1C | 2.36 | 128.63 | 125.04 |
| 12 | cA | 808 | CLA | C1-C2-C3 | -2.36 | 121.97 | 126.04 |
| 12 | bB | 929 | CLA | CBC-CAC-C3C | -2.36 | 105.93 | 112.43 |
| 12 | aA | 807 | CLA | CHC-C1C-C2C | -2.36 | 120.20 | 126.72 |
| 12 | cA | 807 | CLA | CHC-C1C-C2C | -2.36 | 120.20 | 126.72 |
| 12 | bA | 834 | CLA | CMA-C3A-C2A | -2.36 | 104.33 | 113.83 |
| 12 | cB | 929 | CLA | CBC-CAC-C3C | -2.36 | 105.94 | 112.43 |
| 15 | cA | 846 | BCR | C15-C16-C17 | -2.35 | 118.65 | 123.47 |
| 12 | cB | 936 | CLA | C4-C3-C5 | 2.35 | 119.23 | 115.27 |
| 15 | cL | 201 | BCR | C27-C26-C25 | 2.35 | 126.15 | 122.73 |
| 15 | aF | 204 | BCR | C24-C23-C22 | -2.35 | 122.68 | 126.23 |
| 12 | aA | 839 | CLA | CMB-C2B-C3B | 2.35 | 129.08 | 124.68 |
| 12 | cL | 202 | CLA | CMC-C2C-C1C | 2.35 | 128.62 | 125.04 |
| 15 | cA | 847 | BCR | C31-C1-C6 | 2.35 | 114.11 | 110.30 |
| 12 | aA | 813 | CLA | CHD-C4C-NC | 2.35 | 127.91 | 124.20 |
| 12 | bA | 813 | CLA | CHD-C4C-NC | 2.35 | 127.91 | 124.20 |
| 12 | cB | 926 | CLA | O1D-CGD-CBD | -2.35 | 119.67 | 124.48 |
| 12 | aA | 808 | CLA | C1-C2-C3 | -2.35 | 121.98 | 126.04 |
| 12 | aA | 828 | CLA | CBA-CAA-C2A | 2.35 | 120.80 | 113.86 |
| 12 | bA | 839 | CLA | CAA-C2A-C3A | -2.35 | 106.34 | 112.78 |
| 12 | aA | 823 | CLA | CMA-C3A-C2A | -2.35 | 104.35 | 113.83 |
| 12 | bA | 818 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 15 | aL | 206 | BCR | C16-C15-C14 | -2.35 | 118.66 | 123.47 |
| 12 | aB | 910 | CLA | CHD-C4C-NC | 2.35 | 127.91 | 124.20 |
| 12 | cB | 924 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | bB | 942 | BCR | C28-C27-C26 | -2.35 | 109.88 | 114.08 |
| 12 | bB | 936 | CLA | C4-C3-C5 | 2.35 | 119.22 | 115.27 |
| 12 | aB | 926 | CLA | O2D-CGD-O1D | -2.35 | 119.25 | 123.84 |
| 12 | cA | 822 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 12 | cB | 910 | CLA | CBC-CAC-C3C | -2.35 | 105.96 | 112.43 |
| 12 | cA | 820 | CLA | C4-C3-C2 | -2.35 | 117.66 | 123.68 |
| 12 | bA | 828 | CLA | CBA-CAA-C2A | 2.35 | 120.79 | 113.86 |
| 12 | cB | 932 | CLA | CHB-C4A-NA | 2.35 | 127.76 | 124.51 |
| 15 | bB | 943 | BCR | C27-C26-C25 | 2.35 | 126.14 | 122.73 |
| 12 | aA | 833 | CLA | CAC-C3C-C4C | 2.35 | 127.85 | 124.81 |
| 12 | cA | 839 | CLA | CAA-C2A-C3A | -2.35 | 106.35 | 112.78 |
| 12 | aB | 931 | CLA | CHD-C4C-NC | 2.35 | 127.90 | 124.20 |
| 12 | bA | 807 | CLA | CHC-C1C-C2C | -2.35 | 120.23 | 126.72 |
| 12 | aA | 834 | CLA | O1D-CGD-CBD | -2.34 | 119.69 | 124.48 |
| 15 | aL | 201 | BCR | C27-C26-C25 | 2.34 | 126.14 | 122.73 |
| 12 | aA | 839 | CLA | CMC-C2C-C1C | 2.34 | 128.61 | 125.04 |
| 15 | bA | 846 | BCR | C15-C16-C17 | -2.34 | 118.67 | 123.47 |
| 12 | cA | 828 | CLA | CBA-CAA-C2A | 2.34 | 120.78 | 113.86 |
| 12 | bB | 931 | CLA | CGD-CBD-CAD | -2.34 | 103.15 | 110.73 |
| 12 | aA | 820 | CLA | C4-C3-C2 | -2.34 | 117.67 | 123.68 |
| 15 | cF | 201 | BCR | C27-C26-C25 | 2.34 | 126.13 | 122.73 |
| 12 | cA | 833 | CLA | CBC-CAC-C3C | -2.34 | 105.98 | 112.43 |
| 12 | cA | 839 | CLA | CMB-C2B-C3B | 2.34 | 129.06 | 124.68 |
| 12 | cB | 931 | CLA | CGD-CBD-CAD | -2.34 | 103.15 | 110.73 |
| 12 | aA | 822 | CLA | CHB-C4A-NA | 2.34 | 127.75 | 124.51 |
| 15 | cB | 942 | BCR | C28-C27-C26 | -2.34 | 109.90 | 114.08 |
| 12 | bA | 815 | CLA | CHB-C4A-NA | 2.34 | 127.75 | 124.51 |
| 12 | aA | 839 | CLA | CAA-C2A-C3A | -2.34 | 106.37 | 112.78 |
| 15 | aB | 942 | BCR | C28-C27-C26 | -2.34 | 109.90 | 114.08 |
| 12 | aA | 809 | CLA | CAA-C2A-C1A | -2.34 | 104.31 | 111.97 |
| 12 | bB | 910 | CLA | CHD-C4C-NC | 2.34 | 127.89 | 124.20 |
| 12 | cA | 841 | CLA | CHD-C4C-NC | 2.34 | 127.89 | 124.20 |
| 12 | aB | 931 | CLA | CGD-CBD-CAD | -2.34 | 103.16 | 110.73 |
| 12 | bA | 833 | CLA | CAC-C3C-C4C | 2.34 | 127.84 | 124.81 |
| 12 | aB | 908 | CLA | CBC-CAC-C3C | -2.34 | 105.99 | 112.43 |
| 12 | aB | 903 | CLA | C4A-NA-C1A | -2.34 | 105.66 | 106.71 |
| 12 | bA | 833 | CLA | CBC-CAC-C3C | -2.34 | 105.99 | 112.43 |
| 12 | aL | 202 | CLA | CMC-C2C-C1C | 2.34 | 128.59 | 125.04 |
| 12 | cA | 823 | CLA | CMA-C3A-C2A | -2.33 | 104.41 | 113.83 |
| 15 | bA | 847 | BCR | C31-C1-C6 | 2.33 | 114.08 | 110.30 |
| 12 | cA | 839 | CLA | CAC-C3C-C4C | 2.33 | 127.84 | 124.81 |
| 12 | bA | 822 | CLA | CHB-C4A-NA | 2.33 | 127.74 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | aM | 101 | BCR | C33-C5-C6 | -2.33 | 121.91 | 124.53 |
| 15 | cA | 846 | BCR | C33-C5-C6 | -2.33 | 121.91 | 124.53 |
| 12 | aB | 910 | CLA | CMB-C2B-C3B | 2.33 | 129.04 | 124.68 |
| 12 | aA | 819 | CLA | C11-C10-C8 | -2.33 | 108.38 | 115.92 |
| 12 | cA | 818 | CLA | CHB-C4A-NA | 2.33 | 127.74 | 124.51 |
| 15 | bA | 847 | BCR | C3-C4-C5 | -2.33 | 109.91 | 114.08 |
| 12 | cB | 908 | CLA | CBC-CAC-C3C | -2.33 | 106.00 | 112.43 |
| 12 | cB | 910 | CLA | CHD-C4C-NC | 2.33 | 127.88 | 124.20 |
| 12 | cA | 809 | CLA | CAA-C2A-C1A | -2.33 | 104.34 | 111.97 |
| 12 | bB | 910 | CLA | CMB-C2B-C3B | 2.33 | 129.04 | 124.68 |
| 12 | aB | 906 | CLA | C1-O2A-CGA | 2.33 | 122.56 | 116.44 |
| 12 | cA | 819 | CLA | C11-C10-C8 | -2.33 | 108.39 | 115.92 |
| 12 | cA | 810 | CLA | CAA-C2A-C1A | -2.33 | 104.34 | 111.97 |
| 12 | cB | 910 | CLA | CMB-C2B-C3B | 2.33 | 129.04 | 124.68 |
| 12 | bA | 809 | CLA | O2A-CGA-CBA | 2.33 | 121.51 | 114.03 |
| 15 | aF | 201 | BCR | C27-C26-C25 | 2.33 | 126.11 | 122.73 |
| 12 | aA | 837 | CLA | CBA-CAA-C2A | -2.33 | 106.99 | 113.86 |
| 12 | bA | 802 | CLA | CHD-C4C-NC | 2.33 | 127.87 | 124.20 |
| 12 | bA | 820 | CLA | C4-C3-C2 | -2.33 | 117.71 | 123.68 |
| 12 | aB | 912 | CLA | CHD-C4C-NC | 2.33 | 127.87 | 124.20 |
| 12 | cB | 906 | CLA | C1-O2A-CGA | 2.33 | 122.55 | 116.44 |
| 15 | bB | 944 | BCR | C30-C25-C26 | -2.33 | 119.34 | 122.61 |
| 12 | aA | 809 | CLA | O2A-CGA-CBA | 2.33 | 121.51 | 114.03 |
| 12 | bB | 906 | CLA | C1-O2A-CGA | 2.33 | 122.55 | 116.44 |
| 12 | aA | 802 | CLA | CHD-C4C-NC | 2.33 | 127.87 | 124.20 |
| 15 | aA | 848 | BCR | C31-C1-C6 | 2.33 | 114.07 | 110.30 |
| 12 | cF | 202 | CLA | CMB-C2B-C3B | 2.33 | 129.03 | 124.68 |
| 15 | aA | 847 | BCR | C33-C5-C6 | -2.33 | 121.92 | 124.53 |
| 15 | bF | 201 | BCR | C16-C15-C14 | -2.32 | 118.71 | 123.47 |
| 12 | bA | 819 | CLA | C11-C10-C8 | -2.32 | 108.41 | 115.92 |
| 12 | aF | 202 | CLA | CMB-C2B-C3B | 2.32 | 129.02 | 124.68 |
| 12 | cB | 936 | CLA | CMC-C2C-C1C | 2.32 | 128.58 | 125.04 |
| 12 | bA | 839 | CLA | CMB-C2B-C3B | 2.32 | 129.02 | 124.68 |
| 12 | cB | 924 | CLA | CHD-C4C-NC | 2.32 | 127.86 | 124.20 |
| 12 | bA | 823 | CLA | CMA-C3A-C2A | -2.32 | 104.46 | 113.83 |
| 15 | bJ | 101 | BCR | C15-C16-C17 | -2.32 | 118.72 | 123.47 |
| 15 | cJ | 101 | BCR | C15-C16-C17 | -2.32 | 118.72 | 123.47 |
| 12 | bA | 831 | CLA | CMC-C2C-C1C | 2.32 | 128.57 | 125.04 |
| 15 | aB | 946 | BCR | C2-C1-C6 | 2.32 | 114.05 | 110.48 |
| 15 | bF | 201 | BCR | C27-C26-C25 | 2.32 | 126.10 | 122.73 |
| 12 | bA | 809 | CLA | CAA-C2A-C1A | -2.32 | 104.37 | 111.97 |
| 12 | aB | 911 | CLA | CBC-CAC-C3C | -2.32 | 106.04 | 112.43 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 833 | CLA | CBC-CAC-C3C | -2.32 | 106.04 | 112.43 |
| 15 | bA | 848 | BCR | C15-C14-C13 | -2.32 | 124.00 | 127.31 |
| 12 | bA | 820 | CLA | O1D-CGD-CBD | -2.32 | 119.74 | 124.48 |
| 12 | bB | 931 | CLA | CHD-C4C-NC | 2.32 | 127.86 | 124.20 |
| 12 | cB | 912 | CLA | CHD-C4C-NC | 2.32 | 127.86 | 124.20 |
| 12 | cA | 809 | CLA | O2A-CGA-CBA | 2.32 | 121.48 | 114.03 |
| 12 | bB | 908 | CLA | CBC-CAC-C3C | -2.32 | 106.04 | 112.43 |
| 12 | bB | 938 | CLA | CED-O2D-CGD | 2.32 | 121.18 | 115.94 |
| 12 | aA | 810 | CLA | CAA-C2A-C1A | -2.32 | 104.38 | 111.97 |
| 12 | aA | 808 | CLA | CMB-C2B-C3B | 2.32 | 129.01 | 124.68 |
| 12 | aA | 820 | CLA | O1D-CGD-CBD | -2.32 | 119.74 | 124.48 |
| 12 | bB | 912 | CLA | CHD-C4C-NC | 2.32 | 127.85 | 124.20 |
| 12 | cB | 911 | CLA | CBC-CAC-C3C | -2.32 | 106.05 | 112.43 |
| 12 | aA | 841 | CLA | CHD-C4C-NC | 2.32 | 127.85 | 124.20 |
| 12 | bA | 810 | CLA | CAA-C2A-C1A | -2.31 | 104.39 | 111.97 |
| 12 | bB | 911 | CLA | CBC-CAC-C3C | -2.31 | 106.05 | 112.43 |
| 12 | cA | 808 | CLA | CMB-C2B-C3B | 2.31 | 129.01 | 124.68 |
| 12 | aA | 840 | CLA | CBC-CAC-C3C | -2.31 | 106.05 | 112.43 |
| 12 | bA | 808 | CLA | CAA-C2A-C3A | -2.31 | 106.44 | 112.78 |
| 12 | bA | 841 | CLA | CHD-C4C-NC | 2.31 | 127.85 | 124.20 |
| 12 | cA | 802 | CLA | CHD-C4C-NC | 2.31 | 127.85 | 124.20 |
| 12 | bB | 939 | CLA | CAA-CBA-CGA | -2.31 | 106.37 | 112.51 |
| 12 | bA | 835 | CLA | CMA-C3A-C4A | -2.31 | 105.56 | 111.77 |
| 12 | bB | 911 | CLA | CHB-C4A-NA | 2.31 | 127.71 | 124.51 |
| 12 | aB | 937 | CLA | CHD-C4C-NC | 2.31 | 127.85 | 124.20 |
| 12 | aB | 938 | CLA | CED-O2D-CGD | 2.31 | 121.17 | 115.94 |
| 12 | cB | 903 | CLA | C4A-NA-C1A | -2.31 | 105.67 | 106.71 |
| 12 | cB | 904 | CLA | CAC-C3C-C4C | 2.31 | 127.81 | 124.81 |
| 12 | aA | 808 | CLA | CAA-C2A-C3A | -2.31 | 106.45 | 112.78 |
| 12 | cA | 837 | CLA | CBA-CAA-C2A | -2.31 | 107.04 | 113.86 |
| 12 | bB | 936 | CLA | O2A-CGA-CBA | 2.31 | 119.16 | 111.91 |
| 15 | bB | 946 | BCR | C2-C1-C6 | 2.31 | 114.04 | 110.48 |
| 12 | cA | 805 | CLA | O1D-CGD-CBD | -2.31 | 119.76 | 124.48 |
| 15 | aL | 206 | BCR | C2-C1-C6 | 2.31 | 114.03 | 110.48 |
| 12 | cB | 938 | CLA | CED-O2D-CGD | 2.31 | 121.16 | 115.94 |
| 12 | cB | 903 | CLA | CHB-C4A-NA | 2.31 | 127.70 | 124.51 |
| 15 | aA | 848 | BCR | C3-C4-C5 | -2.31 | 109.96 | 114.08 |
| 12 | aB | 919 | CLA | O2A-CGA-CBA | 2.31 | 119.14 | 111.91 |
| 12 | cA | 836 | CLA | CHB-C4A-NA | 2.31 | 127.70 | 124.51 |
| 12 | aA | 835 | CLA | CMA-C3A-C4A | -2.31 | 105.58 | 111.77 |
| 12 | cB | 936 | CLA | O2A-CGA-CBA | 2.31 | 119.14 | 111.91 |
| 12 | bA | 836 | CLA | CAA-C2A-C3A | -2.31 | 106.47 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 810 | CLA | CAA-CBA-CGA | -2.30 | 106.39 | 112.51 |
| 15 | cB | 946 | BCR | C2-C1-C6 | 2.30 | 114.03 | 110.48 |
| 12 | cA | 808 | CLA | CAA-C2A-C3A | -2.30 | 106.47 | 112.78 |
| 12 | cB | 939 | CLA | CAA-CBA-CGA | -2.30 | 106.39 | 112.51 |
| 12 | bA | 840 | CLA | O2A-CGA-O1A | -2.30 | 117.78 | 123.59 |
| 12 | cA | 833 | CLA | CAC-C3C-C4C | 2.30 | 127.80 | 124.81 |
| 15 | aJ | 101 | BCR | C33-C5-C6 | -2.30 | 121.94 | 124.53 |
| 12 | aB | 938 | CLA | CAA-C2A-C3A | -2.30 | 106.47 | 112.78 |
| 12 | aB | 936 | CLA | O2A-CGA-CBA | 2.30 | 119.13 | 111.91 |
| 12 | bB | 919 | CLA | O2A-CGA-CBA | 2.30 | 119.13 | 111.91 |
| 12 | cA | 830 | CLA | CMC-C2C-C1C | 2.30 | 128.54 | 125.04 |
| 15 | cJ | 101 | BCR | C33-C5-C6 | -2.30 | 121.94 | 124.53 |
| 15 | aL | 206 | BCR | C40-C30-C25 | 2.30 | 114.03 | 110.30 |
| 12 | aA | 836 | CLA | CAA-C2A-C3A | -2.30 | 106.48 | 112.78 |
| 12 | aB | 911 | CLA | CHB-C4A-NA | 2.30 | 127.69 | 124.51 |
| 12 | bA | 808 | CLA | CMB-C2B-C3B | 2.30 | 128.98 | 124.68 |
| 12 | bB | 914 | CLA | O1D-CGD-CBD | -2.30 | 119.78 | 124.48 |
| 12 | bA | 853 | CLA | CGD-CBD-CAD | -2.30 | 103.28 | 110.73 |
| 12 | cA | 840 | CLA | CBC-CAC-C3C | -2.30 | 106.09 | 112.43 |
| 12 | aB | 939 | CLA | CAA-CBA-CGA | -2.30 | 106.40 | 112.51 |
| 12 | bA | 810 | CLA | CAA-CBA-CGA | -2.30 | 106.40 | 112.51 |
| 12 | aB | 936 | CLA | CMC-C2C-C1C | 2.30 | 128.54 | 125.04 |
| 15 | cA | 848 | BCR | C15-C14-C13 | -2.30 | 124.03 | 127.31 |
| 12 | aA | 817 | CLA | CHB-C4A-NA | 2.30 | 127.69 | 124.51 |
| 12 | cA | 820 | CLA | O1D-CGD-CBD | -2.30 | 119.78 | 124.48 |
| 12 | aB | 930 | CLA | CMC-C2C-C1C | 2.30 | 128.54 | 125.04 |
| 12 | cA | 836 | CLA | CAA-C2A-C3A | -2.30 | 106.48 | 112.78 |
| 12 | aA | 807 | CLA | CHA-C1A-NA | -2.30 | 121.14 | 126.40 |
| 12 | bA | 837 | CLA | CBA-CAA-C2A | -2.30 | 107.08 | 113.86 |
| 12 | bF | 202 | CLA | CMB-C2B-C3B | 2.30 | 128.97 | 124.68 |
| 12 | bB | 930 | CLA | CMC-C2C-C1C | 2.30 | 128.53 | 125.04 |
| 12 | aA | 812 | CLA | CMC-C2C-C1C | 2.29 | 128.53 | 125.04 |
| 12 | aA | 805 | CLA | O1D-CGD-CBD | -2.29 | 119.79 | 124.48 |
| 12 | bA | 807 | CLA | CHA-C1A-NA | -2.29 | 121.14 | 126.40 |
| 12 | cB | 935 | CLA | O1D-CGD-CBD | -2.29 | 119.79 | 124.48 |
| 12 | cB | 919 | CLA | O2A-CGA-CBA | 2.29 | 119.10 | 111.91 |
| 12 | bA | 812 | CLA | CMC-C2C-C1C | 2.29 | 128.53 | 125.04 |
| 12 | bA | 831 | CLA | O2A-CGA-O1A | -2.29 | 117.81 | 123.59 |
| 12 | cB | 915 | CLA | O2D-CGD-O1D | -2.29 | 119.36 | 123.84 |
| 12 | cB | 936 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 12 | aA | 831 | CLA | O2A-CGA-O1A | -2.29 | 117.81 | 123.59 |
| 12 | bA | 842 | CLA | CMA-C3A-C2A | -2.29 | 104.58 | 113.83 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 854 | CLA | CGD-CBD-CAD | -2.29 | 103.31 | 110.73 |
| 12 | cB | 933 | CLA | CHB-C4A-NA | 2.29 | 127.68 | 124.51 |
| 12 | cB | 914 | CLA | O1D-CGD-CBD | -2.29 | 119.80 | 124.48 |
| 12 | cA | 835 | CLA | CMA-C3A-C4A | -2.29 | 105.62 | 111.77 |
| 12 | aA | 842 | CLA | CMA-C3A-C2A | -2.29 | 104.59 | 113.83 |
| 12 | bA | 840 | CLA | CBC-CAC-C3C | -2.29 | 106.12 | 112.43 |
| 15 | bL | 206 | BCR | C40-C30-C25 | 2.29 | 114.01 | 110.30 |
| 12 | cA | 810 | CLA | CAA-CBA-CGA | -2.29 | 106.43 | 112.51 |
| 12 | bA | 830 | CLA | CMC-C2C-C1C | 2.29 | 128.53 | 125.04 |
| 11 | bA | 801 | CL0 | O2A-CGA-CBA | 2.29 | 119.09 | 111.91 |
| 12 | aA | 807 | CLA | C16-C15-C13 | -2.29 | 108.52 | 115.92 |
| 12 | bB | 936 | CLA | CMC-C2C-C1C | 2.29 | 128.52 | 125.04 |
| 12 | cA | 807 | CLA | CHA-C1A-NA | -2.29 | 121.16 | 126.40 |
| 12 | aB | 914 | CLA | O1D-CGD-CBD | -2.29 | 119.81 | 124.48 |
| 12 | aA | 836 | CLA | CHB-C4A-NA | 2.29 | 127.67 | 124.51 |
| 15 | cL | 206 | BCR | C27-C26-C25 | 2.29 | 126.05 | 122.73 |
| 12 | cA | 831 | CLA | O2A-CGA-O1A | -2.29 | 117.82 | 123.59 |
| 12 | aA | 831 | CLA | CMC-C2C-C1C | 2.29 | 128.52 | 125.04 |
| 12 | bA | 828 | CLA | CMA-C3A-C2A | -2.29 | 104.61 | 113.83 |
| 12 | cA | 853 | CLA | CGD-CBD-CAD | -2.29 | 103.33 | 110.73 |
| 12 | bB | 904 | CLA | CAC-C3C-C4C | 2.29 | 127.78 | 124.81 |
| 15 | aJ | 101 | BCR | C15-C16-C17 | -2.28 | 118.80 | 123.47 |
| 12 | cA | 828 | CLA | CMA-C3A-C2A | -2.28 | 104.62 | 113.83 |
| 15 | cA | 847 | BCR | C3-C4-C5 | -2.28 | 110.00 | 114.08 |
| 12 | bA | 817 | CLA | CHB-C4A-NA | 2.28 | 127.67 | 124.51 |
| 12 | cA | 842 | CLA | CMA-C3A-C2A | -2.28 | 104.62 | 113.83 |
| 12 | cB | 923 | CLA | CAC-C3C-C4C | 2.28 | 127.77 | 124.81 |
| 12 | bA | 807 | CLA | C16-C15-C13 | -2.28 | 108.54 | 115.92 |
| 15 | cL | 206 | BCR | C40-C30-C25 | 2.28 | 114.00 | 110.30 |
| 12 | cB | 938 | CLA | CAA-C2A-C3A | -2.28 | 106.53 | 112.78 |
| 12 | cB | 911 | CLA | CHB-C4A-NA | 2.28 | 127.67 | 124.51 |
| 12 | aB | 912 | CLA | O1D-CGD-CBD | -2.28 | 119.81 | 124.48 |
| 12 | aB | 933 | CLA | CHB-C4A-NA | 2.28 | 127.67 | 124.51 |
| 15 | cA | 850 | BCR | C20-C21-C22 | -2.28 | 124.05 | 127.31 |
| 12 | cA | 807 | CLA | C16-C15-C13 | -2.28 | 108.55 | 115.92 |
| 15 | cA | 849 | BCR | C35-C13-C14 | -2.28 | 119.73 | 122.92 |
| 12 | bA | 836 | CLA | CHB-C4A-NA | 2.28 | 127.67 | 124.51 |
| 12 | aA | 840 | CLA | O2A-CGA-O1A | -2.28 | 117.84 | 123.59 |
| 15 | bA | 846 | BCR | C33-C5-C6 | -2.28 | 121.97 | 124.53 |
| 12 | cA | 840 | CLA | O2A-CGA-O1A | -2.28 | 117.84 | 123.59 |
| 12 | aA | 828 | CLA | CMA-C3A-C2A | -2.28 | 104.63 | 113.83 |
| 11 | cA | 801 | CL0 | O2A-CGA-CBA | 2.28 | 119.06 | 111.91 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 910 | CLA | CMC-C2C-C1C | 2.28 | 128.51 | 125.04 |
| 12 | bA | 829 | CLA | CED-O2D-CGD | 2.28 | 121.09 | 115.94 |
| 12 | bB | 915 | CLA | O2D-CGD-O1D | -2.28 | 119.39 | 123.84 |
| 12 | aA | 826 | CLA | CAA-C2A-C1A | -2.28 | 104.51 | 111.97 |
| 12 | cA | 828 | CLA | C1-O2A-CGA | 2.28 | 122.42 | 116.44 |
| 12 | bB | 906 | CLA | CAA-C2A-C3A | -2.28 | 106.54 | 112.78 |
| 12 | bB | 933 | CLA | CHB-C4A-NA | 2.28 | 127.66 | 124.51 |
| 12 | cB | 915 | CLA | CED-O2D-CGD | 2.28 | 121.09 | 115.94 |
| 12 | bB | 938 | CLA | CAA-C2A-C3A | -2.28 | 106.55 | 112.78 |
| 12 | aB | 924 | CLA | CHD-C4C-NC | 2.28 | 127.79 | 124.20 |
| 15 | cB | 946 | BCR | C10-C11-C12 | -2.28 | 116.11 | 123.22 |
| 15 | cB | 945 | BCR | C29-C30-C25 | 2.28 | 113.98 | 110.48 |
| 12 | aA | 831 | CLA | O1D-CGD-CBD | -2.27 | 119.83 | 124.48 |
| 11 | aA | 801 | CL0 | O2A-CGA-CBA | 2.27 | 119.05 | 111.91 |
| 12 | cA | 817 | CLA | CHB-C4A-NA | 2.27 | 127.66 | 124.51 |
| 12 | aA | 833 | CLA | CHA-C1A-NA | -2.27 | 121.19 | 126.40 |
| 12 | bB | 924 | CLA | CHD-C4C-NC | 2.27 | 127.79 | 124.20 |
| 12 | bA | 827 | CLA | CAC-C3C-C4C | 2.27 | 127.76 | 124.81 |
| 12 | aB | 937 | CLA | CHB-C4A-NA | 2.27 | 127.66 | 124.51 |
| 12 | bA | 805 | CLA | O1D-CGD-CBD | -2.27 | 119.83 | 124.48 |
| 12 | aA | 803 | CLA | CHD-C4C-NC | 2.27 | 127.79 | 124.20 |
| 12 | aA | 830 | CLA | CMC-C2C-C1C | 2.27 | 128.50 | 125.04 |
| 12 | bB | 918 | CLA | CHB-C4A-NA | 2.27 | 127.66 | 124.51 |
| 12 | bB | 936 | CLA | CAC-C3C-C4C | 2.27 | 127.76 | 124.81 |
| 15 | bJ | 101 | BCR | C33-C5-C6 | -2.27 | 121.98 | 124.53 |
| 12 | cB | 912 | CLA | O1D-CGD-CBD | -2.27 | 119.83 | 124.48 |
| 12 | aB | 918 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 12 | cL | 204 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 12 | cB | 936 | CLA | CAC-C3C-C4C | 2.27 | 127.76 | 124.81 |
| 12 | cA | 831 | CLA | CMC-C2C-C1C | 2.27 | 128.50 | 125.04 |
| 12 | bB | 903 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 12 | bB | 937 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 12 | aB | 938 | CLA | CMD-C2D-C3D | -2.27 | 122.39 | 127.61 |
| 12 | aB | 938 | CLA | O2A-CGA-CBA | 2.27 | 119.03 | 111.91 |
| 15 | aL | 206 | BCR | C27-C26-C25 | 2.27 | 126.03 | 122.73 |
| 15 | aA | 850 | BCR | C35-C13-C14 | -2.27 | 119.74 | 122.92 |
| 12 | aB | 915 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 12 | aA | 819 | CLA | CED-O2D-CGD | 2.27 | 121.07 | 115.94 |
| 12 | aA | 828 | CLA | C1-O2A-CGA | 2.27 | 122.40 | 116.44 |
| 15 | cL | 206 | BCR | C2-C1-C6 | 2.27 | 113.97 | 110.48 |
| 12 | bA | 807 | CLA | C4-C3-C5 | 2.27 | 119.09 | 115.27 |
| 15 | bL | 206 | BCR | C27-C26-C25 | 2.27 | 126.03 | 122.73 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | bB | 946 | BCR | C10-C11-C12 | -2.27 | 116.14 | 123.22 |
| 12 | cA | 826 | CLA | CAA-C2A-C1A | -2.27 | 104.54 | 111.97 |
| 12 | cB | 930 | CLA | CMC-C2C-C1C | 2.27 | 128.49 | 125.04 |
| 12 | bB | 938 | CLA | O2A-CGA-CBA | 2.27 | 119.02 | 111.91 |
| 15 | bL | 206 | BCR | C2-C1-C6 | 2.27 | 113.97 | 110.48 |
| 12 | aA | 829 | CLA | CHB-C4A-NA | 2.27 | 127.65 | 124.51 |
| 12 | aA | 834 | CLA | O2A-CGA-O1A | -2.27 | 117.87 | 123.59 |
| 15 | aA | 849 | BCR | C15-C14-C13 | -2.27 | 124.08 | 127.31 |
| 12 | cB | 906 | CLA | CAA-C2A-C3A | -2.27 | 106.57 | 112.78 |
| 15 | bA | 849 | BCR | C35-C13-C14 | -2.27 | 119.75 | 122.92 |
| 12 | bB | 938 | CLA | CMD-C2D-C3D | -2.27 | 122.40 | 127.61 |
| 12 | aF | 202 | CLA | CHB-C4A-NA | 2.27 | 127.64 | 124.51 |
| 12 | cB | 938 | CLA | O2A-CGA-CBA | 2.27 | 119.02 | 111.91 |
| 12 | cA | 831 | CLA | O1D-CGD-CBD | -2.27 | 119.85 | 124.48 |
| 12 | aB | 936 | CLA | CHB-C4A-NA | 2.26 | 127.64 | 124.51 |
| 12 | cB | 918 | CLA | CHB-C4A-NA | 2.26 | 127.64 | 124.51 |
| 12 | aB | 904 | CLA | CAC-C3C-C4C | 2.26 | 127.75 | 124.81 |
| 17 | bB | 947 | LMG | C38-C37-C36 | -2.26 | 102.93 | 114.42 |
| 12 | bB | 935 | CLA | O1D-CGD-CBD | -2.26 | 119.85 | 124.48 |
| 12 | aB | 915 | CLA | O2D-CGD-O1D | -2.26 | 119.41 | 123.84 |
| 12 | bL | 204 | CLA | CHB-C4A-NA | 2.26 | 127.64 | 124.51 |
| 15 | aB | 946 | BCR | C10-C11-C12 | -2.26 | 116.15 | 123.22 |
| 17 | cB | 947 | LMG | C38-C37-C36 | -2.26 | 102.94 | 114.42 |
| 12 | aB | 906 | CLA | CAA-C2A-C3A | -2.26 | 106.58 | 112.78 |
| 12 | aB | 923 | CLA | CAC-C3C-C4C | 2.26 | 127.75 | 124.81 |
| 15 | bA | 850 | BCR | C20-C21-C22 | -2.26 | 124.08 | 127.31 |
| 17 | aB | 947 | LMG | C38-C37-C36 | -2.26 | 102.95 | 114.42 |
| 12 | bB | 936 | CLA | CHB-C4A-NA | 2.26 | 127.64 | 124.51 |
| 12 | cB | 938 | CLA | CMD-C2D-C3D | -2.26 | 122.41 | 127.61 |
| 12 | aB | 922 | CLA | O2A-CGA-CBA | 2.26 | 121.29 | 114.03 |
| 12 | bA | 826 | CLA | CAA-C2A-C1A | -2.26 | 104.57 | 111.97 |
| 12 | bA | 823 | CLA | C1-C2-C3 | -2.26 | 122.14 | 126.04 |
| 12 | cA | 837 | CLA | CHA-C1A-NA | -2.26 | 121.22 | 126.40 |
| 12 | aB | 935 | CLA | O1D-CGD-CBD | -2.26 | 119.86 | 124.48 |
| 12 | bB | 912 | CLA | O1D-CGD-CBD | -2.26 | 119.86 | 124.48 |
| 12 | cA | 829 | CLA | CED-O2D-CGD | 2.26 | 121.05 | 115.94 |
| 12 | bB | 922 | CLA | O2A-CGA-CBA | 2.26 | 121.28 | 114.03 |
| 12 | cA | 819 | CLA | CED-O2D-CGD | 2.26 | 121.04 | 115.94 |
| 12 | cA | 807 | CLA | C4-C3-C5 | 2.26 | 119.07 | 115.27 |
| 12 | bA | 833 | CLA | CHA-C1A-NA | -2.26 | 121.23 | 126.40 |
| 12 | aL | 204 | CLA | O2A-CGA-CBA | 2.26 | 121.28 | 114.03 |
| 12 | cA | 833 | CLA | CHA-C1A-NA | -2.26 | 121.23 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 831 | CLA | O1D-CGD-CBD | -2.26 | 119.87 | 124.48 |
| 12 | bB | 906 | CLA | CED-O2D-CGD | 2.25 | 121.04 | 115.94 |
| 12 | aA | 829 | CLA | CED-O2D-CGD | 2.25 | 121.04 | 115.94 |
| 12 | bA | 803 | CLA | CHD-C4C-NC | 2.25 | 127.76 | 124.20 |
| 12 | aA | 808 | CLA | CMC-C2C-C1C | 2.25 | 128.47 | 125.04 |
| 12 | cA | 812 | CLA | CMC-C2C-C1C | 2.25 | 128.47 | 125.04 |
| 12 | aA | 807 | CLA | C4-C3-C5 | 2.25 | 119.06 | 115.27 |
| 12 | bB | 915 | CLA | CED-O2D-CGD | 2.25 | 121.03 | 115.94 |
| 12 | aB | 936 | CLA | CAC-C3C-C4C | 2.25 | 127.73 | 124.81 |
| 12 | bA | 825 | CLA | CAA-CBA-CGA | -2.25 | 106.67 | 113.25 |
| 12 | aB | 914 | CLA | CHB-C4A-NA | 2.25 | 127.63 | 124.51 |
| 12 | bF | 202 | CLA | CHB-C4A-NA | 2.25 | 127.63 | 124.51 |
| 12 | cA | 803 | CLA | CHD-C4C-NC | 2.25 | 127.75 | 124.20 |
| 12 | aA | 837 | CLA | CHA-C1A-NA | -2.25 | 121.24 | 126.40 |
| 12 | cB | 925 | CLA | O1D-CGD-CBD | -2.25 | 119.88 | 124.48 |
| 12 | bL | 203 | CLA | CAC-C3C-C4C | 2.25 | 127.73 | 124.81 |
| 12 | bB | 914 | CLA | CHB-C4A-NA | 2.25 | 127.63 | 124.51 |
| 12 | cA | 834 | CLA | O2A-CGA-O1A | -2.25 | 117.91 | 123.59 |
| 12 | bA | 828 | CLA | C1-O2A-CGA | 2.25 | 122.35 | 116.44 |
| 12 | bA | 837 | CLA | CHA-C1A-NA | -2.25 | 121.24 | 126.40 |
| 12 | aA | 814 | CLA | CAA-C2A-C3A | -2.25 | 106.61 | 112.78 |
| 12 | bA | 834 | CLA | O2A-CGA-O1A | -2.25 | 117.91 | 123.59 |
| 12 | cB | 922 | CLA | O2A-CGA-CBA | 2.25 | 121.26 | 114.03 |
| 12 | bA | 836 | CLA | C4C-C3C-C2C | -2.25 | 103.62 | 106.90 |
| 12 | cB | 906 | CLA | CED-O2D-CGD | 2.25 | 121.03 | 115.94 |
| 12 | bA | 819 | CLA | CED-O2D-CGD | 2.25 | 121.03 | 115.94 |
| 12 | cA | 827 | CLA | CAC-C3C-C4C | 2.25 | 127.73 | 124.81 |
| 12 | bB | 910 | CLA | CMC-C2C-C1C | 2.25 | 128.47 | 125.04 |
| 12 | aB | 915 | CLA | CED-O2D-CGD | 2.25 | 121.03 | 115.94 |
| 12 | bA | 814 | CLA | CAA-C2A-C3A | -2.25 | 106.62 | 112.78 |
| 15 | cB | 944 | BCR | C33-C5-C6 | -2.25 | 122.00 | 124.53 |
| 12 | bB | 950 | CLA | CHB-C4A-NA | 2.25 | 127.62 | 124.51 |
| 12 | bB | 925 | CLA | O1D-CGD-CBD | -2.25 | 119.88 | 124.48 |
| 15 | bB | 944 | BCR | C37-C22-C21 | -2.25 | 119.77 | 122.92 |
| 12 | cA | 825 | CLA | CAA-CBA-CGA | -2.25 | 106.69 | 113.25 |
| 12 | aL | 204 | CLA | CHB-C4A-NA | 2.25 | 127.62 | 124.51 |
| 12 | bB | 938 | CLA | C1-C2-C3 | -2.25 | 122.16 | 126.04 |
| 12 | aB | 909 | CLA | CHD-C4C-NC | 2.25 | 127.74 | 124.20 |
| 12 | cA | 831 | CLA | C5-C3-C4 | 2.25 | 119.56 | 114.60 |
| 12 | bB | 904 | CLA | CBA-CAA-C2A | 2.25 | 120.49 | 113.86 |
| 12 | cA | 824 | CLA | CED-O2D-CGD | 2.25 | 121.02 | 115.94 |
| 12 | bA | 821 | CLA | CMB-C2B-C3B | 2.25 | 128.88 | 124.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 837 | CLA | O1D-CGD-CBD | -2.25 | 119.89 | 124.48 |
| 12 | cL | 203 | CLA | CAC-C3C-C4C | 2.25 | 127.72 | 124.81 |
| 12 | bL | 204 | CLA | O2A-CGA-CBA | 2.24 | 121.24 | 114.03 |
| 15 | aB | 944 | BCR | C37-C22-C21 | -2.24 | 119.78 | 122.92 |
| 12 | aA | 825 | CLA | CAA-CBA-CGA | -2.24 | 106.70 | 113.25 |
| 12 | cA | 837 | CLA | O1D-CGD-CBD | -2.24 | 119.89 | 124.48 |
| 12 | cA | 815 | CLA | CAA-C2A-C3A | -2.24 | 106.64 | 112.78 |
| 12 | cL | 204 | CLA | O2A-CGA-CBA | 2.24 | 121.23 | 114.03 |
| 12 | aA | 837 | CLA | O1D-CGD-CBD | -2.24 | 119.90 | 124.48 |
| 15 | aB | 944 | BCR | C33-C5-C6 | -2.24 | 122.01 | 124.53 |
| 12 | cB | 938 | CLA | C1-C2-C3 | -2.24 | 122.17 | 126.04 |
| 12 | cA | 826 | CLA | CHB-C4A-NA | 2.24 | 127.61 | 124.51 |
| 12 | aA | 823 | CLA | C1-C2-C3 | -2.24 | 122.17 | 126.04 |
| 12 | aB | 938 | CLA | C1-C2-C3 | -2.24 | 122.17 | 126.04 |
| 12 | aB | 903 | CLA | CHB-C4A-NA | 2.24 | 127.61 | 124.51 |
| 15 | cB | 943 | BCR | C38-C26-C27 | -2.24 | 109.31 | 113.62 |
| 12 | aB | 908 | CLA | CHD-C4C-NC | 2.24 | 127.73 | 124.20 |
| 12 | aA | 824 | CLA | CED-O2D-CGD | 2.24 | 121.00 | 115.94 |
| 12 | bA | 826 | CLA | CHB-C4A-NA | 2.24 | 127.61 | 124.51 |
| 12 | cA | 829 | CLA | CHB-C4A-NA | 2.24 | 127.61 | 124.51 |
| 15 | bB | 943 | BCR | C38-C26-C27 | -2.24 | 109.32 | 113.62 |
| 12 | cB | 915 | CLA | CHB-C4A-NA | 2.24 | 127.61 | 124.51 |
| 12 | cA | 827 | CLA | CAA-C2A-C3A | -2.24 | 106.65 | 112.78 |
| 12 | bA | 824 | CLA | CED-O2D-CGD | 2.24 | 121.00 | 115.94 |
| 12 | aB | 904 | CLA | CBA-CAA-C2A | 2.24 | 120.47 | 113.86 |
| 12 | bA | 808 | CLA | CMC-C2C-C1C | 2.24 | 128.45 | 125.04 |
| 12 | cA | 814 | CLA | CAA-C2A-C3A | -2.24 | 106.65 | 112.78 |
| 12 | cF | 202 | CLA | CHB-C4A-NA | 2.24 | 127.61 | 124.51 |
| 12 | aA | 827 | CLA | O1D-CGD-CBD | -2.24 | 119.91 | 124.48 |
| 16 | bA | 851 | LHG | C20-C19-C18 | -2.24 | 103.07 | 114.42 |
| 15 | aB | 945 | BCR | C29-C30-C25 | 2.24 | 113.92 | 110.48 |
| 12 | cB | 914 | CLA | CHB-C4A-NA | 2.24 | 127.60 | 124.51 |
| 15 | bB | 945 | BCR | C29-C30-C25 | 2.24 | 113.92 | 110.48 |
| 16 | bA | 851 | LHG | O8-C23-O10 | -2.24 | 117.95 | 123.59 |
| 12 | aB | 925 | CLA | O1D-CGD-CBD | -2.23 | 119.91 | 124.48 |
| 12 | cB | 949 | CLA | CGD-CBD-CAD | -2.23 | 103.50 | 110.73 |
| 12 | cA | 824 | CLA | CHB-C4A-NA | 2.23 | 127.60 | 124.51 |
| 12 | aA | 827 | CLA | CAC-C3C-C4C | 2.23 | 127.71 | 124.81 |
| 12 | bB | 923 | CLA | CAC-C3C-C4C | 2.23 | 127.71 | 124.81 |
| 12 | cB | 904 | CLA | CBA-CAA-C2A | 2.23 | 120.46 | 113.86 |
| 15 | aB | 943 | BCR | C38-C26-C27 | -2.23 | 109.32 | 113.62 |
| 12 | cA | 808 | CLA | CMC-C2C-C1C | 2.23 | 128.44 | 125.04 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 13 | aA | 845 | 1L3 | C14-C03-C04 | 2.23 | 120.89 | 118.50 |
| 16 | aA | 852 | LHG | C20-C19-C18 | -2.23 | 103.09 | 114.42 |
| 12 | aB | 926 | CLA | CBA-CAA-C2A | 2.23 | 120.45 | 113.86 |
| 12 | bA | 804 | CLA | CMC-C2C-C1C | 2.23 | 128.44 | 125.04 |
| 12 | cB | 926 | CLA | CBA-CAA-C2A | 2.23 | 120.45 | 113.86 |
| 12 | aB | 906 | CLA | CED-O2D-CGD | 2.23 | 120.98 | 115.94 |
| 17 | bB | 947 | LMG | O7-C10-O9 | -2.23 | 118.31 | 123.70 |
| 12 | aB | 918 | CLA | CHD-C4C-NC | 2.23 | 127.72 | 124.20 |
| 16 | cA | 851 | LHG | C20-C19-C18 | -2.23 | 103.10 | 114.42 |
| 12 | aA | 821 | CLA | CMB-C2B-C3B | 2.23 | 128.85 | 124.68 |
| 12 | cA | 821 | CLA | CMB-C2B-C3B | 2.23 | 128.85 | 124.68 |
| 15 | aA | 851 | BCR | C20-C21-C22 | -2.23 | 124.13 | 127.31 |
| 12 | cA | 827 | CLA | O1D-CGD-CBD | -2.23 | 119.92 | 124.48 |
| 12 | cB | 939 | CLA | CHB-C4A-NA | 2.23 | 127.59 | 124.51 |
| 12 | bA | 825 | CLA | C1-C2-C3 | -2.23 | 122.19 | 126.04 |
| 12 | bA | 816 | CLA | CMC-C2C-C1C | 2.23 | 128.43 | 125.04 |
| 12 | aA | 827 | CLA | CAA-C2A-C3A | -2.23 | 106.67 | 112.78 |
| 12 | aA | 831 | CLA | C5-C3-C4 | 2.23 | 119.53 | 114.60 |
| 15 | bB | 944 | BCR | C33-C5-C6 | -2.23 | 122.03 | 124.53 |
| 12 | cA | 836 | CLA | C4C-C3C-C2C | -2.23 | 103.65 | 106.90 |
| 12 | bA | 811 | CLA | CBC-CAC-C3C | -2.23 | 106.29 | 112.43 |
| 12 | aA | 825 | CLA | O2A-CGA-CBA | 2.23 | 118.90 | 111.91 |
| 12 | cA | 825 | CLA | O2A-CGA-CBA | 2.23 | 118.90 | 111.91 |
| 12 | aL | 203 | CLA | CAC-C3C-C4C | 2.23 | 127.70 | 124.81 |
| 17 | cB | 947 | LMG | O7-C10-O9 | -2.23 | 118.32 | 123.70 |
| 12 | bA | 827 | CLA | CAA-C2A-C3A | -2.23 | 106.68 | 112.78 |
| 12 | cA | 823 | CLA | C1-C2-C3 | -2.23 | 122.19 | 126.04 |
| 12 | aA | 836 | CLA | C4C-C3C-C2C | -2.23 | 103.65 | 106.90 |
| 12 | cB | 937 | CLA | CHB-C4A-NA | 2.23 | 127.59 | 124.51 |
| 12 | aA | 816 | CLA | CMC-C2C-C1C | 2.22 | 128.43 | 125.04 |
| 12 | cA | 841 | CLA | CMB-C2B-C3B | 2.22 | 128.84 | 124.68 |
| 12 | aB | 949 | CLA | CGD-CBD-CAD | -2.22 | 103.53 | 110.73 |
| 12 | bB | 918 | CLA | CHD-C4C-NC | 2.22 | 127.71 | 124.20 |
| 12 | bA | 815 | CLA | CAA-C2A-C3A | -2.22 | 106.69 | 112.78 |
| 12 | aA | 811 | CLA | CBC-CAC-C3C | -2.22 | 106.31 | 112.43 |
| 12 | bA | 829 | CLA | CHB-C4A-NA | 2.22 | 127.58 | 124.51 |
| 12 | cA | 811 | CLA | CBC-CAC-C3C | -2.22 | 106.31 | 112.43 |
| 12 | aA | 826 | CLA | CHB-C4A-NA | 2.22 | 127.58 | 124.51 |
| 12 | bB | 924 | CLA | CBC-CAC-C3C | -2.22 | 106.31 | 112.43 |
| 12 | aA | 838 | CLA | C1-O2A-CGA | 2.22 | 122.27 | 116.44 |
| 12 | bB | 903 | CLA | C4A-NA-C1A | -2.22 | 105.71 | 106.71 |
| 12 | bB | 949 | CLA | CGD-CBD-CAD | -2.22 | 103.55 | 110.73 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 828 | CLA | CMC-C2C-C1C | 2.22 | 128.42 | 125.04 |
| 12 | bA | 825 | CLA | O2A-CGA-CBA | 2.22 | 118.87 | 111.91 |
| 15 | cB | 944 | BCR | C37-C22-C21 | -2.22 | 119.82 | 122.92 |
| 12 | aA | 824 | CLA | CHB-C4A-NA | 2.22 | 127.58 | 124.51 |
| 12 | bB | 926 | CLA | CBA-CAA-C2A | 2.22 | 120.41 | 113.86 |
| 12 | cB | 904 | CLA | C1-O2A-CGA | 2.22 | 122.26 | 116.44 |
| 17 | aB | 947 | LMG | O7-C10-O9 | -2.22 | 118.35 | 123.70 |
| 12 | aB | 910 | CLA | CMC-C2C-C1C | 2.22 | 128.41 | 125.04 |
| 12 | bA | 827 | CLA | O1D-CGD-CBD | -2.22 | 119.95 | 124.48 |
| 16 | aA | 852 | LHG | O8-C23-O10 | -2.22 | 118.00 | 123.59 |
| 12 | aA | 825 | CLA | C1-C2-C3 | -2.22 | 122.21 | 126.04 |
| 12 | cB | 918 | CLA | CHD-C4C-NC | 2.21 | 127.69 | 124.20 |
| 12 | aA | 840 | CLA | C4-C3-C5 | 2.21 | 119.00 | 115.27 |
| 12 | bA | 831 | CLA | C5-C3-C4 | 2.21 | 119.49 | 114.60 |
| 12 | aB | 904 | CLA | C1-O2A-CGA | 2.21 | 122.25 | 116.44 |
| 12 | bA | 811 | CLA | CHB-C4A-NA | 2.21 | 127.57 | 124.51 |
| 12 | cA | 807 | CLA | C7-C6-C5 | -2.21 | 107.35 | 113.36 |
| 13 | bA | 844 | 1L3 | C14-C03-C04 | 2.21 | 120.87 | 118.50 |
| 12 | aA | 804 | CLA | CMC-C2C-C1C | 2.21 | 128.41 | 125.04 |
| 16 | cA | 851 | LHG | O8-C23-O10 | -2.21 | 118.01 | 123.59 |
| 12 | cB | 925 | CLA | CAC-C3C-C4C | 2.21 | 127.68 | 124.81 |
| 12 | aA | 807 | CLA | C7-C6-C5 | -2.21 | 107.36 | 113.36 |
| 12 | cA | 838 | CLA | C1-O2A-CGA | 2.21 | 122.24 | 116.44 |
| 12 | bA | 815 | CLA | O2A-CGA-CBA | 2.21 | 121.13 | 114.03 |
| 12 | aA | 841 | CLA | CMB-C2B-C3B | 2.21 | 128.81 | 124.68 |
| 12 | bB | 909 | CLA | CHD-C4C-NC | 2.21 | 127.68 | 124.20 |
| 12 | bA | 824 | CLA | CHB-C4A-NA | 2.21 | 127.56 | 124.51 |
| 12 | cB | 935 | CLA | CAC-C3C-C2C | 2.21 | 131.31 | 127.53 |
| 12 | cA | 816 | CLA | CMC-C2C-C1C | 2.21 | 128.40 | 125.04 |
| 12 | cB | 909 | CLA | CHD-C4C-NC | 2.21 | 127.68 | 124.20 |
| 12 | aB | 924 | CLA | CBC-CAC-C3C | -2.21 | 106.35 | 112.43 |
| 12 | bB | 907 | CLA | C1-C2-C3 | -2.21 | 122.23 | 126.04 |
| 12 | bA | 841 | CLA | CMB-C2B-C3B | 2.21 | 128.81 | 124.68 |
| 12 | bB | 915 | CLA | CHB-C4A-NA | 2.21 | 127.56 | 124.51 |
| 12 | bB | 939 | CLA | CHB-C4A-NA | 2.20 | 127.56 | 124.51 |
| 12 | cA | 825 | CLA | C1-C2-C3 | -2.20 | 122.23 | 126.04 |
| 12 | aB | 950 | CLA | CHB-C4A-NA | 2.20 | 127.56 | 124.51 |
| 15 | aB | 942 | BCR | C30-C25-C26 | -2.20 | 119.51 | 122.61 |
| 12 | aA | 815 | CLA | CAA-C2A-C3A | -2.20 | 106.74 | 112.78 |
| 12 | aF | 202 | CLA | CBC-CAC-C3C | -2.20 | 106.36 | 112.43 |
| 12 | cB | 916 | CLA | C1B-CHB-C4A | -2.20 | 125.75 | 130.12 |
| 12 | bB | 915 | CLA | C4-C3-C2 | -2.20 | 118.03 | 123.68 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 904 | CLA | C1-O2A-CGA | 2.20 | 122.22 | 116.44 |
| 12 | cB | 908 | CLA | CHD-C4C-NC | 2.20 | 127.67 | 124.20 |
| 12 | bA | 829 | CLA | CBC-CAC-C3C | -2.20 | 106.36 | 112.43 |
| 12 | cB | 924 | CLA | CBC-CAC-C3C | -2.20 | 106.36 | 112.43 |
| 12 | bA | 828 | CLA | CMC-C2C-C1C | 2.20 | 128.39 | 125.04 |
| 12 | bB | 935 | CLA | CAC-C3C-C2C | 2.20 | 131.30 | 127.53 |
| 12 | cB | 921 | CLA | CBC-CAC-C3C | -2.20 | 106.36 | 112.43 |
| 12 | aA | 811 | CLA | CHB-C4A-NA | 2.20 | 127.56 | 124.51 |
| 12 | aA | 815 | CLA | O2A-CGA-CBA | 2.20 | 121.10 | 114.03 |
| 12 | aB | 939 | CLA | CHB-C4A-NA | 2.20 | 127.56 | 124.51 |
| 12 | aB | 915 | CLA | C4-C3-C2 | -2.20 | 118.03 | 123.68 |
| 12 | bA | 807 | CLA | C7-C6-C5 | -2.20 | 107.38 | 113.36 |
| 12 | cB | 949 | CLA | CHB-C4A-NA | 2.20 | 127.55 | 124.51 |
| 12 | cA | 804 | CLA | CMC-C2C-C1C | 2.20 | 128.39 | 125.04 |
| 12 | bB | 925 | CLA | CAC-C3C-C4C | 2.20 | 127.66 | 124.81 |
| 12 | bA | 840 | CLA | C4-C3-C5 | 2.20 | 118.97 | 115.27 |
| 12 | aA | 829 | CLA | CBC-CAC-C3C | -2.20 | 106.37 | 112.43 |
| 12 | aB | 921 | CLA | CBC-CAC-C3C | -2.20 | 106.37 | 112.43 |
| 12 | bB | 938 | CLA | CBC-CAC-C3C | -2.20 | 106.37 | 112.43 |
| 11 | aA | 801 | CL0 | CGD-CBD-CAD | -2.20 | 103.62 | 110.73 |
| 12 | cA | 815 | CLA | O2A-CGA-CBA | 2.20 | 121.09 | 114.03 |
| 12 | cB | 907 | CLA | C1-C2-C3 | -2.20 | 122.24 | 126.04 |
| 15 | cA | 850 | BCR | C20-C19-C18 | -2.20 | 120.25 | 126.42 |
| 15 | cB | 943 | BCR | C30-C25-C26 | -2.19 | 119.52 | 122.61 |
| 12 | cA | 840 | CLA | C4-C3-C5 | 2.19 | 118.96 | 115.27 |
| 12 | bB | 936 | CLA | O2A-CGA-O1A | -2.19 | 118.05 | 123.59 |
| 12 | cB | 915 | CLA | C4-C3-C2 | -2.19 | 118.05 | 123.68 |
| 12 | aB | 935 | CLA | CAC-C3C-C2C | 2.19 | 131.28 | 127.53 |
| 15 | bA | 848 | BCR | C15-C16-C17 | -2.19 | 118.98 | 123.47 |
| 11 | cA | 801 | CL0 | CGD-CBD-CAD | -2.19 | 103.63 | 110.73 |
| 12 | bB | 933 | CLA | CED-O2D-CGD | 2.19 | 120.89 | 115.94 |
| 12 | bF | 202 | CLA | CBC-CAC-C3C | -2.19 | 106.39 | 112.43 |
| 12 | bA | 838 | CLA | C1-O2A-CGA | 2.19 | 122.19 | 116.44 |
| 15 | bB | 943 | BCR | C30-C25-C26 | -2.19 | 119.53 | 122.61 |
| 12 | bA | 843 | CLA | O2D-CGD-O1D | -2.19 | 119.56 | 123.84 |
| 12 | aB | 938 | CLA | CBC-CAC-C3C | -2.19 | 106.39 | 112.43 |
| 12 | cF | 202 | CLA | CBC-CAC-C3C | -2.19 | 106.40 | 112.43 |
| 12 | aB | 922 | CLA | O2A-CGA-O1A | -2.19 | 117.84 | 123.30 |
| 12 | aB | 925 | CLA | CAC-C3C-C4C | 2.19 | 127.65 | 124.81 |
| 12 | bB | 921 | CLA | CBC-CAC-C3C | -2.19 | 106.40 | 112.43 |
| 12 | aB | 933 | CLA | CED-O2D-CGD | 2.19 | 120.89 | 115.94 |
| 12 | bA | 838 | CLA | CBA-CAA-C2A | 2.19 | 120.32 | 113.86 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 922 | CLA | O2A-CGA-O1A | -2.19 | 117.85 | 123.30 |
| 12 | aB | 927 | CLA | CMB-C2B-C1B | -2.19 | 125.10 | 128.46 |
| 12 | cA | 829 | CLA | CBC-CAC-C3C | -2.19 | 106.40 | 112.43 |
| 12 | aA | 829 | CLA | O2A-CGA-O1A | -2.19 | 118.08 | 123.59 |
| 15 | bF | 201 | BCR | C24-C23-C22 | -2.19 | 122.93 | 126.23 |
| 12 | bA | 808 | CLA | CHB-C4A-NA | 2.18 | 127.53 | 124.51 |
| 12 | bB | 908 | CLA | CHD-C4C-NC | 2.18 | 127.64 | 124.20 |
| 12 | aA | 833 | CLA | O2A-CGA-O1A | -2.18 | 118.08 | 123.59 |
| 12 | aB | 916 | CLA | C1B-CHB-C4A | -2.18 | 125.79 | 130.12 |
| 12 | cA | 812 | CLA | CHD-C4C-NC | 2.18 | 127.64 | 124.20 |
| 12 | aA | 844 | CLA | CHB-C4A-NA | 2.18 | 127.53 | 124.51 |
| 12 | bA | 835 | CLA | CHB-C4A-NA | 2.18 | 127.53 | 124.51 |
| 12 | cA | 811 | CLA | CHB-C4A-NA | 2.18 | 127.53 | 124.51 |
| 12 | bB | 927 | CLA | CMB-C2B-C1B | -2.18 | 125.11 | 128.46 |
| 11 | bA | 801 | CL0 | CGD-CBD-CAD | -2.18 | 103.67 | 110.73 |
| 12 | cA | 806 | CLA | CMC-C2C-C1C | 2.18 | 128.36 | 125.04 |
| 12 | cA | 828 | CLA | CMC-C2C-C1C | 2.18 | 128.36 | 125.04 |
| 15 | bA | 850 | BCR | C20-C19-C18 | -2.18 | 120.29 | 126.42 |
| 15 | bB | 942 | BCR | C30-C25-C26 | -2.18 | 119.54 | 122.61 |
| 12 | bA | 825 | CLA | CED-O2D-CGD | 2.18 | 120.87 | 115.94 |
| 15 | cM | 101 | BCR | C24-C23-C22 | -2.18 | 122.94 | 126.23 |
| 15 | aB | 943 | BCR | C30-C25-C26 | -2.18 | 119.55 | 122.61 |
| 12 | cA | 838 | CLA | CBA-CAA-C2A | 2.18 | 120.29 | 113.86 |
| 15 | bM | 101 | BCR | C24-C23-C22 | -2.18 | 122.94 | 126.23 |
| 12 | cB | 938 | CLA | CBC-CAC-C3C | -2.18 | 106.43 | 112.43 |
| 12 | cA | 843 | CLA | O2D-CGD-O1D | -2.18 | 119.58 | 123.84 |
| 12 | aB | 936 | CLA | O2A-CGA-O1A | -2.18 | 118.10 | 123.59 |
| 12 | cA | 829 | CLA | O2A-CGA-O1A | -2.18 | 118.10 | 123.59 |
| 12 | cA | 833 | CLA | O2A-CGA-O1A | -2.18 | 118.10 | 123.59 |
| 12 | aA | 808 | CLA | O2A-CGA-CBA | 2.18 | 118.74 | 111.91 |
| 12 | cA | 808 | CLA | O2A-CGA-CBA | 2.18 | 118.74 | 111.91 |
| 12 | bB | 922 | CLA | O2A-CGA-O1A | -2.18 | 117.88 | 123.30 |
| 12 | cB | 933 | CLA | CED-O2D-CGD | 2.18 | 120.86 | 115.94 |
| 15 | aA | 851 | BCR | C20-C19-C18 | -2.17 | 120.31 | 126.42 |
| 12 | bB | 935 | CLA | CHA-C1A-NA | -2.17 | 121.42 | 126.40 |
| 12 | bA | 843 | CLA | CED-O2D-CGD | 2.17 | 120.86 | 115.94 |
| 12 | aA | 838 | CLA | CBA-CAA-C2A | 2.17 | 120.28 | 113.86 |
| 13 | cA | 844 | 1L3 | C14-C03-C04 | 2.17 | 120.83 | 118.50 |
| 15 | cA | 848 | BCR | C15-C16-C17 | -2.17 | 119.02 | 123.47 |
| 12 | bA | 833 | CLA | O2A-CGA-O1A | -2.17 | 118.11 | 123.59 |
| 12 | bA | 829 | CLA | O2A-CGA-O1A | -2.17 | 118.11 | 123.59 |
| 12 | aA | 822 | CLA | CAA-C2A-C3A | -2.17 | 106.83 | 112.78 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 835 | CLA | CAA-C2A-C3A | -2.17 | 106.83 | 112.78 |
| 12 | aB | 903 | CLA | O1D-CGD-CBD | -2.17 | 120.04 | 124.48 |
| 12 | cB | 935 | CLA | CHA-C1A-NA | -2.17 | 121.42 | 126.40 |
| 15 | aF | 201 | BCR | C24-C23-C22 | -2.17 | 122.95 | 126.23 |
| 12 | aA | 825 | CLA | CED-O2D-CGD | 2.17 | 120.85 | 115.94 |
| 12 | cB | 929 | CLA | CHB-C4A-NA | 2.17 | 127.52 | 124.51 |
| 15 | cB | 942 | BCR | C30-C25-C26 | -2.17 | 119.56 | 122.61 |
| 15 | aM | 101 | BCR | C24-C23-C22 | -2.17 | 122.95 | 126.23 |
| 12 | cA | 821 | CLA | O2A-CGA-O1A | -2.17 | 118.11 | 123.59 |
| 12 | aA | 825 | CLA | O1D-CGD-CBD | -2.17 | 120.04 | 124.48 |
| 12 | cB | 935 | CLA | CBA-CAA-C2A | -2.17 | 107.45 | 113.86 |
| 12 | aB | 902 | CLA | C1-O2A-CGA | 2.17 | 122.14 | 116.44 |
| 12 | bA | 822 | CLA | CAA-C2A-C3A | -2.17 | 106.83 | 112.78 |
| 12 | bB | 916 | CLA | C1B-CHB-C4A | -2.17 | 125.82 | 130.12 |
| 12 | bB | 950 | CLA | CBC-CAC-C3C | -2.17 | 106.45 | 112.43 |
| 12 | bB | 949 | CLA | CHB-C4A-NA | 2.17 | 127.51 | 124.51 |
| 15 | aA | 849 | BCR | C15-C16-C17 | -2.17 | 119.03 | 123.47 |
| 12 | cA | 825 | CLA | O1D-CGD-CBD | -2.17 | 120.05 | 124.48 |
| 12 | aA | 806 | CLA | CMC-C2C-C1C | 2.17 | 128.34 | 125.04 |
| 12 | cA | 807 | CLA | CHB-C4A-NA | 2.17 | 127.51 | 124.51 |
| 12 | cA | 811 | CLA | CMC-C2C-C1C | 2.17 | 128.34 | 125.04 |
| 12 | cB | 936 | CLA | O2A-CGA-O1A | -2.17 | 118.12 | 123.59 |
| 15 | bL | 205 | BCR | C11-C10-C9 | -2.17 | 124.22 | 127.31 |
| 12 | cA | 826 | CLA | C1-C2-C3 | -2.17 | 122.30 | 126.04 |
| 15 | bB | 941 | BCR | C35-C13-C14 | -2.17 | 119.89 | 122.92 |
| 12 | bA | 833 | CLA | CMA-C3A-C2A | -2.17 | 105.09 | 113.83 |
| 12 | cB | 902 | CLA | C1-O2A-CGA | 2.17 | 122.12 | 116.44 |
| 12 | aA | 844 | CLA | CBC-CAC-C3C | -2.17 | 106.46 | 112.43 |
| 12 | bB | 902 | CLA | C1-O2A-CGA | 2.16 | 122.12 | 116.44 |
| 12 | bB | 935 | CLA | CBA-CAA-C2A | -2.16 | 107.47 | 113.86 |
| 12 | aB | 907 | CLA | C1-C2-C3 | -2.16 | 122.30 | 126.04 |
| 12 | cB | 903 | CLA | O1D-CGD-CBD | -2.16 | 120.06 | 124.48 |
| 12 | aA | 812 | CLA | CHD-C4C-NC | 2.16 | 127.61 | 124.20 |
| 12 | bB | 903 | CLA | O1D-CGD-CBD | -2.16 | 120.06 | 124.48 |
| 15 | cF | 201 | BCR | C24-C23-C22 | -2.16 | 122.97 | 126.23 |
| 12 | bA | 808 | CLA | O2A-CGA-CBA | 2.16 | 118.70 | 111.91 |
| 15 | aB | 945 | BCR | C7-C8-C9 | -2.16 | 122.97 | 126.23 |
| 12 | aA | 825 | CLA | C7-C6-C5 | -2.16 | 107.48 | 113.36 |
| 15 | bF | 201 | BCR | C2-C1-C6 | 2.16 | 113.81 | 110.48 |
| 12 | cA | 808 | CLA | CHB-C4A-NA | 2.16 | 127.50 | 124.51 |
| 12 | cA | 825 | CLA | CED-O2D-CGD | 2.16 | 120.83 | 115.94 |
| 15 | cF | 201 | BCR | C2-C1-C6 | 2.16 | 113.81 | 110.48 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 826 | CLA | C1-C2-C3 | -2.16 | 122.30 | 126.04 |
| 15 | aL | 205 | BCR | C11-C10-C9 | -2.16 | 124.22 | 127.31 |
| 12 | aA | 821 | CLA | O2A-CGA-O1A | -2.16 | 118.14 | 123.59 |
| 12 | cA | 833 | CLA | CMA-C3A-C2A | -2.16 | 105.11 | 113.83 |
| 15 | cM | 101 | BCR | C16-C15-C14 | -2.16 | 119.05 | 123.47 |
| 12 | cA | 835 | CLA | CHB-C4A-NA | 2.16 | 127.50 | 124.51 |
| 12 | aA | 826 | CLA | C1-C2-C3 | -2.16 | 122.31 | 126.04 |
| 15 | aM | 101 | BCR | C16-C15-C14 | -2.16 | 119.05 | 123.47 |
| 12 | aA | 835 | CLA | CAA-C2A-C3A | -2.16 | 106.86 | 112.78 |
| 12 | bB | 912 | CLA | CMC-C2C-C1C | 2.16 | 128.33 | 125.04 |
| 12 | bB | 906 | CLA | O2A-CGA-CBA | 2.16 | 118.68 | 111.91 |
| 12 | aB | 950 | CLA | CBC-CAC-C3C | -2.16 | 106.48 | 112.43 |
| 12 | cB | 927 | CLA | CHB-C4A-NA | 2.16 | 127.50 | 124.51 |
| 12 | aB | 906 | CLA | O2A-CGA-CBA | 2.16 | 118.68 | 111.91 |
| 15 | bJ | 101 | BCR | C28-C27-C26 | -2.16 | 110.22 | 114.08 |
| 12 | aB | 922 | CLA | CMC-C2C-C1C | 2.16 | 128.32 | 125.04 |
| 12 | cA | 824 | CLA | CHD-C4C-NC | 2.16 | 127.60 | 124.20 |
| 12 | aA | 843 | CLA | O2D-CGD-O1D | -2.16 | 119.62 | 123.84 |
| 12 | bA | 825 | CLA | O1D-CGD-CBD | -2.16 | 120.07 | 124.48 |
| 12 | bA | 824 | CLA | O2D-CGD-O1D | -2.15 | 119.62 | 123.84 |
| 15 | aF | 201 | BCR | C2-C1-C6 | 2.15 | 113.80 | 110.48 |
| 12 | aA | 824 | CLA | O2D-CGD-O1D | -2.15 | 119.63 | 123.84 |
| 12 | aB | 949 | CLA | CHB-C4A-NA | 2.15 | 127.49 | 124.51 |
| 12 | cB | 920 | CLA | CAC-C3C-C4C | 2.15 | 127.61 | 124.81 |
| 15 | cB | 945 | BCR | C7-C8-C9 | -2.15 | 122.98 | 126.23 |
| 12 | cA | 853 | CLA | CHD-C4C-NC | 2.15 | 127.60 | 124.20 |
| 12 | aB | 935 | CLA | CBA-CAA-C2A | -2.15 | 107.51 | 113.86 |
| 12 | aA | 808 | CLA | CHB-C4A-NA | 2.15 | 127.49 | 124.51 |
| 12 | aA | 854 | CLA | CHD-C4C-NC | 2.15 | 127.60 | 124.20 |
| 12 | cA | 843 | CLA | CED-O2D-CGD | 2.15 | 120.81 | 115.94 |
| 12 | aB | 935 | CLA | CHA-C1A-NA | -2.15 | 121.47 | 126.40 |
| 12 | aA | 833 | CLA | CMA-C3A-C2A | -2.15 | 105.15 | 113.83 |
| 12 | bA | 853 | CLA | CHD-C4C-NC | 2.15 | 127.59 | 124.20 |
| 15 | aJ | 101 | BCR | C28-C27-C26 | -2.15 | 110.24 | 114.08 |
| 12 | aB | 921 | CLA | O2D-CGD-O1D | -2.15 | 119.64 | 123.84 |
| 12 | bB | 920 | CLA | CAC-C3C-C4C | 2.15 | 127.60 | 124.81 |
| 15 | bM | 101 | BCR | C16-C15-C14 | -2.15 | 119.07 | 123.47 |
| 12 | bB | 949 | CLA | C2A-C3A-C4A | -2.15 | 99.04 | 101.78 |
| 12 | aB | 934 | CLA | CHB-C4A-NA | 2.15 | 127.48 | 124.51 |
| 12 | cA | 822 | CLA | CAA-C2A-C3A | -2.15 | 106.89 | 112.78 |
| 12 | bA | 806 | CLA | CMC-C2C-C1C | 2.15 | 128.31 | 125.04 |
| 12 | cA | 853 | CLA | CHB-C4A-NA | 2.15 | 127.48 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 819 | CLA | CAC-C3C-C4C | 2.15 | 127.59 | 124.81 |
| 12 | aB | 927 | CLA | CHB-C4A-NA | 2.15 | 127.48 | 124.51 |
| 12 | bA | 853 | CLA | CHB-C4A-NA | 2.15 | 127.48 | 124.51 |
| 15 | bA | 850 | BCR | C27-C26-C25 | 2.14 | 125.84 | 122.73 |
| 12 | cB | 925 | CLA | O2A-CGA-O1A | -2.14 | 118.18 | 123.59 |
| 15 | bB | 941 | BCR | C28-C27-C26 | -2.14 | 110.25 | 114.08 |
| 12 | cA | 835 | CLA | CAA-C2A-C3A | -2.14 | 106.91 | 112.78 |
| 17 | cB | 947 | LMG | O2-C2-C1 | -2.14 | 104.84 | 110.05 |
| 12 | aA | 816 | CLA | O1D-CGD-CBD | -2.14 | 120.10 | 124.48 |
| 15 | cB | 943 | BCR | C40-C30-C25 | 2.14 | 113.77 | 110.30 |
| 12 | aB | 931 | CLA | CHB-C4A-NA | 2.14 | 127.47 | 124.51 |
| 12 | bA | 811 | CLA | CMC-C2C-C1C | 2.14 | 128.30 | 125.04 |
| 12 | cB | 912 | CLA | CMC-C2C-C1C | 2.14 | 128.30 | 125.04 |
| 12 | bA | 818 | CLA | CHA-C1A-NA | -2.14 | 121.49 | 126.40 |
| 12 | aA | 828 | CLA | CAC-C3C-C2C | 2.14 | 131.19 | 127.53 |
| 12 | cB | 927 | CLA | CMB-C2B-C1B | -2.14 | 125.17 | 128.46 |
| 12 | cA | 827 | CLA | O2A-CGA-CBA | 2.14 | 120.69 | 112.23 |
| 12 | bA | 812 | CLA | CHD-C4C-NC | 2.14 | 127.58 | 124.20 |
| 12 | cB | 906 | CLA | O2A-CGA-CBA | 2.14 | 118.62 | 111.91 |
| 12 | bB | 927 | CLA | CHB-C4A-NA | 2.14 | 127.47 | 124.51 |
| 12 | cA | 837 | CLA | O2A-CGA-CBA | 2.14 | 118.62 | 111.91 |
| 12 | aA | 831 | CLA | CAA-C2A-C3A | -2.14 | 106.92 | 112.78 |
| 12 | aA | 835 | CLA | CBC-CAC-C3C | -2.14 | 106.53 | 112.43 |
| 15 | bB | 945 | BCR | C7-C8-C9 | -2.14 | 123.00 | 126.23 |
| 12 | aB | 930 | CLA | O2A-C1-C2 | 2.14 | 113.97 | 108.97 |
| 12 | bB | 922 | CLA | CAC-C3C-C4C | 2.14 | 127.58 | 124.81 |
| 12 | cA | 825 | CLA | C7-C6-C5 | -2.14 | 107.56 | 113.36 |
| 15 | aB | 941 | BCR | C28-C27-C26 | -2.14 | 110.26 | 114.08 |
| 12 | cA | 824 | CLA | CBC-CAC-C3C | -2.14 | 106.54 | 112.43 |
| 12 | cA | 803 | CLA | C6-C7-C8 | -2.14 | 109.02 | 115.92 |
| 12 | aB | 909 | CLA | CGD-CBD-CAD | -2.14 | 103.82 | 110.73 |
| 12 | bA | 835 | CLA | CBC-CAC-C3C | -2.14 | 106.54 | 112.43 |
| 12 | bA | 821 | CLA | O2A-CGA-O1A | -2.14 | 118.20 | 123.59 |
| 12 | aB | 929 | CLA | CHB-C4A-NA | 2.14 | 127.47 | 124.51 |
| 12 | bA | 828 | CLA | CAC-C3C-C2C | 2.14 | 131.18 | 127.53 |
| 12 | bA | 824 | CLA | CHD-C4C-NC | 2.13 | 127.57 | 124.20 |
| 12 | bB | 911 | CLA | O2A-CGA-O1A | -2.13 | 117.98 | 123.30 |
| 15 | aI | 101 | BCR | C27-C26-C25 | 2.13 | 125.83 | 122.73 |
| 12 | cA | 831 | CLA | CAA-C2A-C3A | -2.13 | 106.93 | 112.78 |
| 12 | cB | 919 | CLA | CHA-C1A-NA | -2.13 | 121.51 | 126.40 |
| 12 | cB | 930 | CLA | O2A-C1-C2 | 2.13 | 113.96 | 108.97 |
| 12 | cB | 922 | CLA | CMC-C2C-C1C | 2.13 | 128.29 | 125.04 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aB | 922 | CLA | CAC-C3C-C4C | 2.13 | 127.58 | 124.81 |
| 12 | bA | 813 | CLA | CHB-C4A-NA | 2.13 | 127.46 | 124.51 |
| 12 | cB | 913 | CLA | CHB-C4A-NA | 2.13 | 127.46 | 124.51 |
| 12 | bB | 925 | CLA | O2A-CGA-O1A | -2.13 | 118.21 | 123.59 |
| 12 | aA | 803 | CLA | C6-C7-C8 | -2.13 | 109.03 | 115.92 |
| 15 | bA | 850 | BCR | C38-C26-C27 | -2.13 | 109.52 | 113.62 |
| 12 | bA | 807 | CLA | CHB-C4A-NA | 2.13 | 127.46 | 124.51 |
| 12 | aA | 824 | CLA | CBC-CAC-C3C | -2.13 | 106.55 | 112.43 |
| 12 | bB | 929 | CLA | CHB-C4A-NA | 2.13 | 127.46 | 124.51 |
| 12 | aB | 912 | CLA | CMC-C2C-C1C | 2.13 | 128.28 | 125.04 |
| 12 | bB | 908 | CLA | CED-O2D-CGD | 2.13 | 120.76 | 115.94 |
| 12 | aA | 824 | CLA | CHD-C4C-NC | 2.13 | 127.56 | 124.20 |
| 12 | bB | 927 | CLA | CHD-C4C-NC | 2.13 | 127.56 | 124.20 |
| 12 | cB | 927 | CLA | CHD-C4C-NC | 2.13 | 127.56 | 124.20 |
| 12 | aA | 806 | CLA | C4-C3-C5 | 2.13 | 118.86 | 115.27 |
| 12 | bA | 803 | CLA | C6-C7-C8 | -2.13 | 109.03 | 115.92 |
| 12 | aB | 908 | CLA | CED-O2D-CGD | 2.13 | 120.75 | 115.94 |
| 12 | bA | 825 | CLA | C7-C6-C5 | -2.13 | 107.57 | 113.36 |
| 12 | cA | 835 | CLA | CBC-CAC-C3C | -2.13 | 106.56 | 112.43 |
| 12 | aB | 923 | CLA | O1D-CGD-CBD | -2.13 | 120.13 | 124.48 |
| 12 | bA | 827 | CLA | O2A-CGA-CBA | 2.13 | 120.65 | 112.23 |
| 12 | bB | 921 | CLA | O2D-CGD-O1D | -2.13 | 119.67 | 123.84 |
| 15 | aB | 943 | BCR | C40-C30-C25 | 2.13 | 113.75 | 110.30 |
| 12 | aA | 811 | CLA | CMC-C2C-C1C | 2.13 | 128.28 | 125.04 |
| 12 | cA | 824 | CLA | O2D-CGD-O1D | -2.13 | 119.68 | 123.84 |
| 12 | aB | 927 | CLA | CHD-C4C-NC | 2.13 | 127.56 | 124.20 |
| 12 | bB | 913 | CLA | CHB-C4A-NA | 2.13 | 127.45 | 124.51 |
| 12 | bA | 816 | CLA | O1D-CGD-CBD | -2.13 | 120.13 | 124.48 |
| 15 | aA | 851 | BCR | C38-C26-C27 | -2.13 | 109.53 | 113.62 |
| 12 | cA | 816 | CLA | O1D-CGD-CBD | -2.13 | 120.13 | 124.48 |
| 12 | aA | 827 | CLA | O2A-CGA-CBA | 2.13 | 120.64 | 112.23 |
| 12 | bB | 922 | CLA | CMC-C2C-C1C | 2.13 | 128.28 | 125.04 |
| 12 | cA | 813 | CLA | CHB-C4A-NA | 2.13 | 127.45 | 124.51 |
| 16 | cA | 851 | LHG | C18-C17-C16 | -2.13 | 103.63 | 114.42 |
| 12 | aA | 812 | CLA | C4-C3-C5 | 2.13 | 118.85 | 115.27 |
| 12 | cA | 812 | CLA | C4-C3-C5 | 2.13 | 118.85 | 115.27 |
| 12 | aA | 843 | CLA | CED-O2D-CGD | 2.13 | 120.75 | 115.94 |
| 12 | aB | 920 | CLA | CAC-C3C-C4C | 2.13 | 127.57 | 124.81 |
| 16 | aA | 852 | LHG | C18-C17-C16 | -2.13 | 103.63 | 114.42 |
| 12 | aB | 925 | CLA | O2A-CGA-O1A | -2.13 | 118.23 | 123.59 |
| 12 | cB | 906 | CLA | CHB-C4A-NA | 2.13 | 127.45 | 124.51 |
| 12 | aA | 818 | CLA | CHA-C1A-NA | -2.13 | 121.53 | 126.40 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | bI | 101 | BCR | C27-C26-C25 | 2.12 | 125.82 | 122.73 |
| 15 | cJ | 101 | BCR | C28-C27-C26 | -2.12 | 110.28 | 114.08 |
| 12 | cB | 917 | CLA | O1A-CGA-CBA | -2.12 | 115.44 | 123.73 |
| 12 | cB | 921 | CLA | O2D-CGD-O1D | -2.12 | 119.69 | 123.84 |
| 15 | cM | 101 | BCR | C10-C11-C12 | -2.12 | 116.59 | 123.22 |
| 15 | cI | 101 | BCR | C27-C26-C25 | 2.12 | 125.81 | 122.73 |
| 12 | cB | 908 | CLA | CED-O2D-CGD | 2.12 | 120.74 | 115.94 |
| 12 | bB | 921 | CLA | CHA-C1A-NA | -2.12 | 121.54 | 126.40 |
| 17 | aB | 947 | LMG | O2-C2-C1 | -2.12 | 104.89 | 110.05 |
| 16 | bA | 851 | LHG | C18-C17-C16 | -2.12 | 103.65 | 114.42 |
| 12 | aA | 834 | CLA | CMB-C2B-C3B | 2.12 | 128.65 | 124.68 |
| 12 | aB | 907 | CLA | C4A-NA-C1A | -2.12 | 105.75 | 106.71 |
| 12 | aB | 949 | CLA | C2A-C3A-C4A | -2.12 | 99.08 | 101.78 |
| 12 | aB | 919 | CLA | CHA-C1A-NA | -2.12 | 121.54 | 126.40 |
| 12 | aB | 911 | CLA | O2A-CGA-O1A | -2.12 | 118.01 | 123.30 |
| 12 | bA | 831 | CLA | CAA-C2A-C3A | -2.12 | 106.97 | 112.78 |
| 12 | cA | 803 | CLA | C1-C2-C3 | -2.12 | 122.38 | 126.04 |
| 12 | bA | 824 | CLA | CBC-CAC-C3C | -2.12 | 106.58 | 112.43 |
| 12 | aA | 807 | CLA | CHB-C4A-NA | 2.12 | 127.44 | 124.51 |
| 15 | cB | 941 | BCR | C28-C27-C26 | -2.12 | 110.29 | 114.08 |
| 12 | cA | 828 | CLA | CAC-C3C-C2C | 2.12 | 131.15 | 127.53 |
| 12 | bA | 837 | CLA | O2A-CGA-CBA | 2.12 | 118.56 | 111.91 |
| 12 | bA | 832 | CLA | C2A-C1A-CHA | -2.12 | 120.16 | 123.86 |
| 12 | cA | 818 | CLA | CHA-C1A-NA | -2.12 | 121.55 | 126.40 |
| 12 | bB | 905 | CLA | CHB-C4A-NA | 2.12 | 127.44 | 124.51 |
| 11 | bA | 801 | CL0 | CMB-C2B-C1B | 2.12 | 131.72 | 128.46 |
| 12 | aA | 823 | CLA | O2A-CGA-O1A | -2.12 | 118.25 | 123.59 |
| 12 | bB | 934 | CLA | CHB-C4A-NA | 2.12 | 127.44 | 124.51 |
| 12 | cB | 934 | CLA | CHB-C4A-NA | 2.12 | 127.44 | 124.51 |
| 12 | bB | 919 | CLA | CHA-C1A-NA | -2.12 | 121.55 | 126.40 |
| 12 | bB | 919 | CLA | CMB-C2B-C3B | 2.12 | 128.64 | 124.68 |
| 12 | cA | 834 | CLA | CMB-C2B-C3B | 2.12 | 128.64 | 124.68 |
| 12 | aA | 832 | CLA | C2A-C1A-CHA | -2.12 | 120.16 | 123.86 |
| 12 | aB | 921 | CLA | CHA-C1A-NA | -2.12 | 121.55 | 126.40 |
| 12 | cB | 949 | CLA | C2A-C3A-C4A | -2.12 | 99.08 | 101.78 |
| 15 | cL | 205 | BCR | C11-C10-C9 | -2.12 | 124.29 | 127.31 |
| 12 | aA | 837 | CLA | O2A-CGA-CBA | 2.12 | 118.55 | 111.91 |
| 12 | cA | 832 | CLA | C2A-C1A-CHA | -2.12 | 120.16 | 123.86 |
| 15 | bB | 943 | BCR | C40-C30-C25 | 2.12 | 113.73 | 110.30 |
| 12 | bB | 909 | CLA | CGD-CBD-CAD | -2.12 | 103.88 | 110.73 |
| 12 | bB | 930 | CLA | O2A-C1-C2 | 2.12 | 113.92 | 108.97 |
| 12 | bA | 819 | CLA | CAC-C3C-C4C | 2.12 | 127.56 | 124.81 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 919 | CLA | CMB-C2B-C3B | 2.11 | 128.63 | 124.68 |
| 12 | cB | 909 | CLA | CGD-CBD-CAD | -2.11 | 103.88 | 110.73 |
| 15 | cA | 850 | BCR | C27-C26-C25 | 2.11 | 125.80 | 122.73 |
| 12 | bA | 806 | CLA | C4-C3-C5 | 2.11 | 118.83 | 115.27 |
| 15 | bB | 944 | BCR | C15-C16-C17 | -2.11 | 119.14 | 123.47 |
| 17 | bB | 947 | LMG | O2-C2-C1 | -2.11 | 104.91 | 110.05 |
| 15 | aA | 851 | BCR | C27-C26-C25 | 2.11 | 125.80 | 122.73 |
| 12 | bB | 923 | CLA | O1D-CGD-CBD | -2.11 | 120.16 | 124.48 |
| 12 | cB | 922 | CLA | CAC-C3C-C4C | 2.11 | 127.55 | 124.81 |
| 15 | aB | 941 | BCR | C35-C13-C14 | -2.11 | 119.96 | 122.92 |
| 12 | aB | 913 | CLA | CHB-C4A-NA | 2.11 | 127.43 | 124.51 |
| 12 | aA | 830 | CLA | CMA-C3A-C4A | -2.11 | 106.10 | 111.77 |
| 17 | aB | 947 | LMG | C3-C4-C5 | -2.11 | 106.47 | 110.24 |
| 12 | aB | 902 | CLA | CMA-C3A-C2A | -2.11 | 105.31 | 113.83 |
| 12 | aB | 903 | CLA | C1-O2A-CGA | 2.11 | 121.98 | 116.44 |
| 12 | aA | 835 | CLA | CHB-C4A-NA | 2.11 | 127.43 | 124.51 |
| 15 | cB | 944 | BCR | C15-C16-C17 | -2.11 | 119.15 | 123.47 |
| 12 | bB | 918 | CLA | CMC-C2C-C1C | 2.11 | 128.25 | 125.04 |
| 12 | bB | 909 | CLA | C1-O2A-CGA | 2.11 | 121.98 | 116.44 |
| 12 | bA | 830 | CLA | CMA-C3A-C4A | -2.11 | 106.10 | 111.77 |
| 12 | bA | 819 | CLA | C3A-C2A-C1A | 2.11 | 104.50 | 101.34 |
| 15 | cA | 850 | BCR | C38-C26-C27 | -2.11 | 109.56 | 113.62 |
| 12 | aB | 917 | CLA | O1A-CGA-CBA | -2.11 | 115.50 | 123.73 |
| 12 | aB | 939 | CLA | O2A-CGA-CBA | 2.11 | 120.80 | 114.03 |
| 15 | bM | 101 | BCR | C10-C11-C12 | -2.11 | 116.64 | 123.22 |
| 12 | cB | 902 | CLA | CMA-C3A-C2A | -2.11 | 105.33 | 113.83 |
| 12 | cB | 918 | CLA | CMC-C2C-C1C | 2.11 | 128.25 | 125.04 |
| 12 | bA | 834 | CLA | CMB-C2B-C3B | 2.11 | 128.62 | 124.68 |
| 12 | aA | 810 | CLA | CHB-C4A-NA | 2.11 | 127.42 | 124.51 |
| 12 | aB | 922 | CLA | CHB-C4A-NA | 2.11 | 127.42 | 124.51 |
| 12 | bB | 902 | CLA | CMA-C3A-C2A | -2.10 | 105.34 | 113.83 |
| 12 | bA | 823 | CLA | O2A-CGA-O1A | -2.10 | 118.28 | 123.59 |
| 12 | bB | 903 | CLA | C1-O2A-CGA | 2.10 | 121.97 | 116.44 |
| 12 | aB | 919 | CLA | CMB-C2B-C3B | 2.10 | 128.62 | 124.68 |
| 12 | cA | 819 | CLA | CAC-C3C-C4C | 2.10 | 127.54 | 124.81 |
| 12 | bB | 917 | CLA | O1A-CGA-CBA | -2.10 | 115.53 | 123.73 |
| 12 | cB | 911 | CLA | O2A-CGA-O1A | -2.10 | 118.06 | 123.30 |
| 12 | bA | 803 | CLA | C1-C2-C3 | -2.10 | 122.41 | 126.04 |
| 12 | cA | 813 | CLA | CHA-C1A-NA | -2.10 | 121.58 | 126.40 |
| 17 | bB | 947 | LMG | C3-C4-C5 | -2.10 | 106.49 | 110.24 |
| 12 | bA | 812 | CLA | C4-C3-C5 | 2.10 | 118.81 | 115.27 |
| 12 | aA | 813 | CLA | CHB-C4A-NA | 2.10 | 127.42 | 124.51 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | aM | 101 | BCR | C10-C11-C12 | -2.10 | 116.66 | 123.22 |
| 15 | cF | 203 | BCR | C11-C10-C9 | -2.10 | 124.31 | 127.31 |
| 15 | aB | 944 | BCR | C15-C16-C17 | -2.10 | 119.17 | 123.47 |
| 12 | aB | 920 | CLA | O2A-CGA-CBA | 2.10 | 120.78 | 114.03 |
| 12 | aA | 803 | CLA | C1-C2-C3 | -2.10 | 122.41 | 126.04 |
| 12 | aA | 819 | CLA | C3A-C2A-C1A | 2.10 | 104.48 | 101.34 |
| 12 | bB | 931 | CLA | C4-C3-C5 | 2.10 | 118.80 | 115.27 |
| 12 | cA | 806 | CLA | C4-C3-C5 | 2.10 | 118.80 | 115.27 |
| 12 | cB | 931 | CLA | CHB-C4A-NA | 2.10 | 127.42 | 124.51 |
| 15 | cB | 941 | BCR | C35-C13-C14 | -2.10 | 119.98 | 122.92 |
| 12 | cA | 830 | CLA | CMA-C3A-C4A | -2.10 | 106.13 | 111.77 |
| 12 | bB | 937 | CLA | O2A-CGA-O1A | -2.10 | 118.30 | 123.59 |
| 12 | cB | 921 | CLA | CHA-C1A-NA | -2.10 | 121.59 | 126.40 |
| 12 | bB | 906 | CLA | CBC-CAC-C3C | -2.10 | 106.65 | 112.43 |
| 12 | cB | 906 | CLA | CBC-CAC-C3C | -2.10 | 106.65 | 112.43 |
| 12 | aA | 813 | CLA | CHA-C1A-NA | -2.10 | 121.59 | 126.40 |
| 12 | aA | 814 | CLA | O2D-CGD-O1D | -2.10 | 119.74 | 123.84 |
| 12 | aB | 937 | CLA | O2A-CGA-O1A | -2.10 | 118.30 | 123.59 |
| 15 | cL | 205 | BCR | C16-C15-C14 | -2.10 | 119.18 | 123.47 |
| 12 | aA | 812 | CLA | O2A-CGA-O1A | -2.09 | 118.31 | 123.59 |
| 12 | aB | 909 | CLA | C1-O2A-CGA | 2.09 | 121.94 | 116.44 |
| 15 | aF | 204 | BCR | C20-C21-C22 | -2.09 | 124.32 | 127.31 |
| 15 | cF | 204 | BCR | C11-C10-C9 | -2.09 | 124.32 | 127.31 |
| 12 | bB | 931 | CLA | CHB-C4A-NA | 2.09 | 127.41 | 124.51 |
| 12 | cB | 909 | CLA | C1-O2A-CGA | 2.09 | 121.94 | 116.44 |
| 12 | bA | 813 | CLA | CHA-C1A-NA | -2.09 | 121.60 | 126.40 |
| 12 | aB | 905 | CLA | CHB-C4A-NA | 2.09 | 127.41 | 124.51 |
| 15 | cA | 847 | BCR | C30-C25-C26 | -2.09 | 119.67 | 122.61 |
| 12 | cB | 917 | CLA | CHA-C1A-NA | -2.09 | 121.61 | 126.40 |
| 12 | cB | 903 | CLA | C1-O2A-CGA | 2.09 | 121.93 | 116.44 |
| 15 | bF | 204 | BCR | C11-C10-C9 | -2.09 | 124.33 | 127.31 |
| 13 | aA | 845 | 1L3 | C23-C24-C25 | 2.09 | 118.75 | 111.88 |
| 12 | bB | 912 | CLA | CHA-C1A-NA | -2.09 | 121.61 | 126.40 |
| 12 | bB | 917 | CLA | CHA-C1A-NA | -2.09 | 121.61 | 126.40 |
| 12 | aL | 202 | CLA | CHB-C4A-NA | 2.09 | 127.40 | 124.51 |
| 12 | cB | 905 | CLA | CHB-C4A-NA | 2.09 | 127.40 | 124.51 |
| 13 | cA | 844 | 1L3 | C23-C24-C25 | 2.09 | 118.75 | 111.88 |
| 12 | aA | 854 | CLA | CHB-C4A-NA | 2.09 | 127.40 | 124.51 |
| 12 | bB | 920 | CLA | O2A-CGA-CBA | 2.09 | 120.74 | 114.03 |
| 12 | cB | 928 | CLA | CBC-CAC-C3C | -2.09 | 106.67 | 112.43 |
| 12 | bB | 928 | CLA | CBC-CAC-C3C | -2.09 | 106.68 | 112.43 |
| 12 | cB | 923 | CLA | O1D-CGD-CBD | -2.09 | 120.21 | 124.48 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 820 | CLA | CMB-C2B-C3B | 2.09 | 128.58 | 124.68 |
| 12 | cA | 819 | CLA | C3A-C2A-C1A | 2.09 | 104.46 | 101.34 |
| 12 | aA | 812 | CLA | CHB-C4A-NA | 2.09 | 127.40 | 124.51 |
| 12 | bB | 922 | CLA | CHB-C4A-NA | 2.09 | 127.40 | 124.51 |
| 15 | aA | 848 | BCR | C30-C25-C26 | -2.08 | 119.68 | 122.61 |
| 12 | bA | 812 | CLA | O2A-CGA-O1A | -2.08 | 118.33 | 123.59 |
| 12 | aA | 819 | CLA | C1B-CHB-C4A | -2.08 | 125.99 | 130.12 |
| 12 | cB | 931 | CLA | C4-C3-C5 | 2.08 | 118.78 | 115.27 |
| 12 | aB | 906 | CLA | CHB-C4A-NA | 2.08 | 127.39 | 124.51 |
| 12 | bB | 906 | CLA | CHB-C4A-NA | 2.08 | 127.39 | 124.51 |
| 12 | cB | 937 | CLA | O2A-CGA-O1A | -2.08 | 118.34 | 123.59 |
| 12 | aB | 917 | CLA | CHA-C1A-NA | -2.08 | 121.63 | 126.40 |
| 12 | cB | 920 | CLA | O2A-CGA-CBA | 2.08 | 120.72 | 114.03 |
| 11 | cA | 801 | CL0 | CMB-C2B-C1B | 2.08 | 131.66 | 128.46 |
| 12 | bA | 842 | CLA | CED-O2D-CGD | 2.08 | 120.65 | 115.94 |
| 12 | bA | 820 | CLA | CMB-C2B-C3B | 2.08 | 128.57 | 124.68 |
| 17 | cB | 947 | LMG | C3-C4-C5 | -2.08 | 106.53 | 110.24 |
| 13 | bA | 844 | 1L3 | C23-C24-C25 | 2.08 | 118.72 | 111.88 |
| 12 | bB | 939 | CLA | O2A-CGA-CBA | 2.08 | 120.72 | 114.03 |
| 12 | aB | 906 | CLA | CBC-CAC-C3C | -2.08 | 106.70 | 112.43 |
| 12 | cA | 837 | CLA | CHD-C4C-NC | 2.08 | 127.48 | 124.20 |
| 12 | cA | 814 | CLA | O2D-CGD-O1D | -2.08 | 119.78 | 123.84 |
| 12 | cA | 812 | CLA | CHB-C4A-NA | 2.08 | 127.39 | 124.51 |
| 12 | cA | 823 | CLA | O2A-CGA-O1A | -2.08 | 118.35 | 123.59 |
| 12 | aB | 928 | CLA | CBC-CAC-C3C | -2.08 | 106.70 | 112.43 |
| 11 | aA | 801 | CL0 | CMB-C2B-C1B | 2.08 | 131.65 | 128.46 |
| 12 | cA | 837 | CLA | OBD-CAD-C3D | -2.08 | 123.53 | 128.52 |
| 12 | cB | 939 | CLA | O2A-CGA-CBA | 2.08 | 120.70 | 114.03 |
| 12 | cA | 823 | CLA | CAC-C3C-C4C | 2.07 | 127.50 | 124.81 |
| 12 | cF | 202 | CLA | O2A-CGA-CBA | 2.07 | 120.69 | 114.03 |
| 15 | aL | 205 | BCR | C16-C15-C14 | -2.07 | 119.22 | 123.47 |
| 15 | aL | 201 | BCR | C3-C4-C5 | -2.07 | 110.38 | 114.08 |
| 12 | cA | 819 | CLA | C1B-CHB-C4A | -2.07 | 126.01 | 130.12 |
| 12 | cA | 807 | CLA | O2D-CGD-CBD | 2.07 | 114.95 | 111.27 |
| 12 | bA | 819 | CLA | C1B-CHB-C4A | -2.07 | 126.01 | 130.12 |
| 12 | aA | 808 | CLA | C1-O2A-CGA | 2.07 | 121.88 | 116.44 |
| 15 | cF | 203 | BCR | C33-C5-C6 | -2.07 | 122.20 | 124.53 |
| 12 | aB | 936 | CLA | CMA-C3A-C2A | -2.07 | 105.48 | 113.83 |
| 12 | aB | 938 | CLA | C4-C3-C5 | 2.07 | 118.35 | 115.98 |
| 15 | cB | 944 | BCR | C38-C26-C27 | -2.07 | 109.64 | 113.62 |
| 12 | cB | 925 | CLA | CHB-C4A-NA | 2.07 | 127.37 | 124.51 |
| 15 | aF | 204 | BCR | C11-C10-C9 | -2.07 | 124.36 | 127.31 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 917 | CLA | C2A-C3A-C4A | -2.07 | 98.53 | 101.87 |
| 12 | aA | 842 | CLA | CED-O2D-CGD | 2.07 | 120.62 | 115.94 |
| 16 | cA | 852 | LHG | C11-C10-C9 | -2.07 | 103.92 | 114.42 |
| 15 | bL | 205 | BCR | C16-C15-C14 | -2.07 | 119.24 | 123.47 |
| 12 | cA | 808 | CLA | C1-O2A-CGA | 2.07 | 121.87 | 116.44 |
| 15 | bL | 201 | BCR | C3-C4-C5 | -2.07 | 110.39 | 114.08 |
| 12 | cB | 909 | CLA | CBC-CAC-C3C | -2.07 | 106.73 | 112.43 |
| 12 | cA | 842 | CLA | CED-O2D-CGD | 2.07 | 120.61 | 115.94 |
| 12 | aA | 833 | CLA | CMC-C2C-C1C | 2.07 | 128.19 | 125.04 |
| 15 | cF | 204 | BCR | C15-C16-C17 | -2.07 | 119.24 | 123.47 |
| 12 | bB | 936 | CLA | CMA-C3A-C2A | -2.07 | 105.49 | 113.83 |
| 15 | bB | 944 | BCR | C40-C30-C25 | 2.07 | 113.65 | 110.30 |
| 15 | bF | 203 | BCR | C11-C10-C9 | -2.07 | 124.36 | 127.31 |
| 12 | cB | 925 | CLA | CHA-C1A-NA | -2.07 | 121.67 | 126.40 |
| 12 | cA | 820 | CLA | CMB-C2B-C3B | 2.07 | 128.54 | 124.68 |
| 16 | bA | 852 | LHG | C11-C10-C9 | -2.07 | 103.94 | 114.42 |
| 12 | cA | 821 | CLA | CMA-C3A-C4A | -2.06 | 106.22 | 111.77 |
| 12 | cA | 812 | CLA | O2A-CGA-O1A | -2.06 | 118.38 | 123.59 |
| 15 | aB | 944 | BCR | C38-C26-C27 | -2.06 | 109.65 | 113.62 |
| 12 | bB | 925 | CLA | CHA-C1A-NA | -2.06 | 121.67 | 126.40 |
| 15 | aF | 203 | BCR | C11-C10-C9 | -2.06 | 124.36 | 127.31 |
| 12 | cB | 907 | CLA | C4A-NA-C1A | -2.06 | 105.78 | 106.71 |
| 12 | aB | 918 | CLA | CMC-C2C-C1C | 2.06 | 128.18 | 125.04 |
| 12 | cB | 912 | CLA | CHA-C1A-NA | -2.06 | 121.67 | 126.40 |
| 12 | cA | 836 | CLA | O2A-CGA-CBA | 2.06 | 120.66 | 114.03 |
| 12 | bA | 837 | CLA | CHD-C4C-NC | 2.06 | 127.45 | 124.20 |
| 16 | aA | 853 | LHG | C11-C10-C9 | -2.06 | 103.95 | 114.42 |
| 12 | bB | 925 | CLA | CHB-C4A-NA | 2.06 | 127.36 | 124.51 |
| 12 | bA | 821 | CLA | CMA-C3A-C4A | -2.06 | 106.23 | 111.77 |
| 12 | bB | 917 | CLA | C2A-C3A-C4A | -2.06 | 98.54 | 101.87 |
| 12 | cB | 936 | CLA | CMA-C3A-C2A | -2.06 | 105.51 | 113.83 |
| 12 | aB | 931 | CLA | C4-C3-C5 | 2.06 | 118.74 | 115.27 |
| 12 | bA | 839 | CLA | CHB-C4A-NA | 2.06 | 127.36 | 124.51 |
| 12 | cB | 913 | CLA | O1D-CGD-CBD | -2.06 | 120.26 | 124.48 |
| 15 | bF | 204 | BCR | C20-C21-C22 | -2.06 | 124.37 | 127.31 |
| 12 | aA | 812 | CLA | CMA-C3A-C2A | -2.06 | 105.51 | 113.83 |
| 12 | aA | 821 | CLA | CMA-C3A-C4A | -2.06 | 106.23 | 111.77 |
| 15 | bF | 201 | BCR | C10-C11-C12 | -2.06 | 116.78 | 123.22 |
| 15 | cF | 201 | BCR | C10-C11-C12 | -2.06 | 116.78 | 123.22 |
| 12 | cA | 803 | CLA | C11-C10-C8 | -2.06 | 109.26 | 115.92 |
| 12 | aA | 829 | CLA | CMA-C3A-C2A | -2.06 | 105.51 | 113.83 |
| 15 | bA | 847 | BCR | C30-C25-C26 | -2.06 | 119.71 | 122.61 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | aA | 837 | CLA | OBD-CAD-C3D | -2.06 | 123.56 | 128.52 |
| 12 | aA | 803 | CLA | C11-C10-C8 | -2.06 | 109.26 | 115.92 |
| 12 | bA | 814 | CLA | O2D-CGD-O1D | -2.06 | 119.81 | 123.84 |
| 12 | cA | 806 | CLA | CHD-C4C-NC | 2.06 | 127.45 | 124.20 |
| 12 | bA | 803 | CLA | C11-C10-C8 | -2.06 | 109.26 | 115.92 |
| 12 | aB | 925 | CLA | CHA-C1A-NA | -2.06 | 121.68 | 126.40 |
| 12 | bA | 810 | CLA | CHB-C4A-NA | 2.06 | 127.36 | 124.51 |
| 12 | bB | 913 | CLA | O1D-CGD-CBD | -2.06 | 120.27 | 124.48 |
| 12 | bA | 823 | CLA | CAC-C3C-C4C | 2.06 | 127.48 | 124.81 |
| 12 | aB | 912 | CLA | CHA-C1A-NA | -2.06 | 121.68 | 126.40 |
| 12 | bB | 938 | CLA | C4-C3-C5 | 2.06 | 118.34 | 115.98 |
| 12 | bB | 926 | CLA | CHA-C1A-NA | -2.06 | 121.68 | 126.40 |
| 15 | bB | 944 | BCR | C38-C26-C27 | -2.06 | 109.66 | 113.62 |
| 15 | cF | 204 | BCR | C20-C21-C22 | -2.06 | 124.37 | 127.31 |
| 12 | bA | 833 | CLA | CMC-C2C-C1C | 2.06 | 128.17 | 125.04 |
| 12 | bA | 812 | CLA | CHB-C4A-NA | 2.06 | 127.36 | 124.51 |
| 12 | cB | 908 | CLA | CHA-C1A-NA | -2.06 | 121.69 | 126.40 |
| 12 | cB | 922 | CLA | CHB-C4A-NA | 2.06 | 127.36 | 124.51 |
| 12 | cB | 937 | CLA | CMC-C2C-C1C | 2.06 | 128.17 | 125.04 |
| 12 | bA | 812 | CLA | CMA-C3A-C2A | -2.06 | 105.53 | 113.83 |
| 12 | bB | 903 | CLA | O2A-CGA-CBA | 2.06 | 118.36 | 111.91 |
| 15 | aF | 204 | BCR | C15-C16-C17 | -2.06 | 119.26 | 123.47 |
| 12 | bA | 808 | CLA | C1-O2A-CGA | 2.06 | 121.84 | 116.44 |
| 12 | bB | 937 | CLA | CMC-C2C-C1C | 2.06 | 128.17 | 125.04 |
| 12 | aA | 837 | CLA | CHD-C4C-NC | 2.06 | 127.44 | 124.20 |
| 12 | cA | 812 | CLA | CMA-C3A-C2A | -2.05 | 105.54 | 113.83 |
| 12 | cA | 829 | CLA | CMA-C3A-C2A | -2.05 | 105.54 | 113.83 |
| 12 | cB | 922 | CLA | O2D-CGD-O1D | -2.05 | 119.82 | 123.84 |
| 12 | aB | 932 | CLA | CMB-C2B-C1B | 2.05 | 131.62 | 128.46 |
| 12 | cA | 833 | CLA | CMC-C2C-C1C | 2.05 | 128.17 | 125.04 |
| 12 | bB | 908 | CLA | CHA-C1A-NA | -2.05 | 121.70 | 126.40 |
| 12 | cA | 809 | CLA | CBC-CAC-C3C | -2.05 | 106.77 | 112.43 |
| 12 | bB | 907 | CLA | C4A-NA-C1A | -2.05 | 105.78 | 106.71 |
| 12 | bF | 202 | CLA | O2A-CGA-CBA | 2.05 | 120.62 | 114.03 |
| 15 | bF | 204 | BCR | C15-C16-C17 | -2.05 | 119.27 | 123.47 |
| 12 | aB | 903 | CLA | O2A-CGA-CBA | 2.05 | 118.35 | 111.91 |
| 12 | aA | 836 | CLA | O2A-CGA-CBA | 2.05 | 120.62 | 114.03 |
| 12 | aB | 901 | CLA | CMB-C2B-C1B | 2.05 | 131.62 | 128.46 |
| 12 | bA | 829 | CLA | CMA-C3A-C2A | -2.05 | 105.55 | 113.83 |
| 12 | aB | 908 | CLA | CHA-C1A-NA | -2.05 | 121.70 | 126.40 |
| 12 | cB | 904 | CLA | CMA-C3A-C4A | -2.05 | 106.26 | 111.77 |
| 12 | bB | 922 | CLA | O2D-CGD-O1D | -2.05 | 119.83 | 123.84 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 917 | CLA | C1-C2-C3 | -2.05 | 122.50 | 126.04 |
| 12 | aB | 925 | CLA | CHB-C4A-NA | 2.05 | 127.35 | 124.51 |
| 12 | cA | 810 | CLA | CHB-C4A-NA | 2.05 | 127.35 | 124.51 |
| 12 | cA | 839 | CLA | CHB-C4A-NA | 2.05 | 127.35 | 124.51 |
| 15 | cL | 201 | BCR | C3-C4-C5 | -2.05 | 110.42 | 114.08 |
| 12 | bB | 928 | CLA | O1D-CGD-CBD | -2.05 | 120.29 | 124.48 |
| 12 | aF | 202 | CLA | O2A-CGA-CBA | 2.05 | 120.62 | 114.03 |
| 15 | aB | 944 | BCR | C40-C30-C25 | 2.05 | 113.62 | 110.30 |
| 12 | cB | 929 | CLA | CAC-C3C-C4C | 2.05 | 127.47 | 124.81 |
| 12 | aB | 909 | CLA | CBC-CAC-C3C | -2.05 | 106.78 | 112.43 |
| 12 | bA | 837 | CLA | OBD-CAD-C3D | -2.05 | 123.59 | 128.52 |
| 15 | aI | 101 | BCR | C31-C1-C6 | 2.05 | 113.62 | 110.30 |
| 12 | aB | 917 | CLA | C2A-C3A-C4A | -2.05 | 98.56 | 101.87 |
| 12 | cB | 904 | CLA | CAA-C2A-C3A | -2.05 | 107.17 | 112.78 |
| 12 | bA | 833 | CLA | O2D-CGD-O1D | -2.05 | 119.83 | 123.84 |
| 12 | bB | 929 | CLA | O2A-CGA-CBA | 2.05 | 120.61 | 114.03 |
| 12 | aB | 913 | CLA | O1D-CGD-CBD | -2.05 | 120.29 | 124.48 |
| 12 | aB | 904 | CLA | CAA-C2A-C3A | -2.05 | 107.17 | 112.78 |
| 12 | bB | 904 | CLA | CAA-C2A-C3A | -2.05 | 107.17 | 112.78 |
| 12 | aA | 809 | CLA | CBC-CAC-C3C | -2.05 | 106.78 | 112.43 |
| 12 | bA | 802 | CLA | CBC-CAC-C3C | -2.05 | 106.78 | 112.43 |
| 15 | cI | 101 | BCR | C31-C1-C6 | 2.05 | 113.62 | 110.30 |
| 11 | bA | 801 | CL0 | CHD-C4C-NC | 2.05 | 127.43 | 124.20 |
| 12 | cB | 926 | CLA | CHA-C1A-NA | -2.05 | 121.71 | 126.40 |
| 12 | cB | 929 | CLA | O2A-CGA-CBA | 2.05 | 120.61 | 114.03 |
| 15 | aI | 101 | BCR | C11-C10-C9 | -2.05 | 124.39 | 127.31 |
| 15 | bF | 204 | BCR | C1-C6-C5 | -2.05 | 119.73 | 122.61 |
| 12 | aB | 949 | CLA | CAC-C3C-C2C | 2.05 | 131.03 | 127.53 |
| 12 | cB | 919 | CLA | CHB-C4A-NA | 2.05 | 127.34 | 124.51 |
| 12 | cL | 202 | CLA | CHB-C4A-NA | 2.05 | 127.34 | 124.51 |
| 12 | bB | 904 | CLA | CMA-C3A-C4A | -2.04 | 106.28 | 111.77 |
| 12 | aA | 823 | CLA | CAC-C3C-C4C | 2.04 | 127.46 | 124.81 |
| 12 | aB | 917 | CLA | C1-C2-C3 | -2.04 | 122.51 | 126.04 |
| 12 | bB | 923 | CLA | C4-C3-C5 | 2.04 | 118.71 | 115.27 |
| 12 | bB | 909 | CLA | CBC-CAC-C3C | -2.04 | 106.80 | 112.43 |
| 12 | bB | 949 | CLA | CAC-C3C-C2C | 2.04 | 131.03 | 127.53 |
| 12 | bA | 809 | CLA | CBC-CAC-C3C | -2.04 | 106.80 | 112.43 |
| 12 | aA | 806 | CLA | CHD-C4C-NC | 2.04 | 127.42 | 124.20 |
| 12 | cB | 911 | CLA | CAA-C2A-C3A | -2.04 | 107.18 | 112.78 |
| 12 | aA | 832 | CLA | O2A-CGA-O1A | -2.04 | 118.44 | 123.59 |
| 12 | cA | 833 | CLA | O2D-CGD-O1D | -2.04 | 119.84 | 123.84 |
| 12 | bB | 901 | CLA | CMB-C2B-C1B | 2.04 | 131.60 | 128.46 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bA | 814 | CLA | O1D-CGD-CBD | -2.04 | 120.30 | 124.48 |
| 12 | bB | 911 | CLA | CAA-C2A-C3A | -2.04 | 107.18 | 112.78 |
| 12 | aA | 802 | CLA | CBC-CAC-C3C | -2.04 | 106.80 | 112.43 |
| 12 | aB | 904 | CLA | CMA-C3A-C4A | -2.04 | 106.29 | 111.77 |
| 12 | aA | 833 | CLA | O2D-CGD-O1D | -2.04 | 119.85 | 123.84 |
| 12 | aB | 929 | CLA | O2A-CGA-CBA | 2.04 | 120.59 | 114.03 |
| 12 | cB | 932 | CLA | CMB-C2B-C1B | 2.04 | 131.60 | 128.46 |
| 12 | cB | 928 | CLA | O1D-CGD-CBD | -2.04 | 120.31 | 124.48 |
| 15 | cB | 944 | BCR | C40-C30-C25 | 2.04 | 113.61 | 110.30 |
| 12 | cA | 802 | CLA | CBC-CAC-C3C | -2.04 | 106.81 | 112.43 |
| 12 | bA | 836 | CLA | O2A-CGA-CBA | 2.04 | 120.58 | 114.03 |
| 12 | cB | 923 | CLA | C4-C3-C5 | 2.04 | 118.70 | 115.27 |
| 11 | cA | 801 | CL0 | C2A-C1A-CHA | -2.04 | 120.30 | 123.86 |
| 15 | bI | 101 | BCR | C31-C1-C6 | 2.04 | 113.61 | 110.30 |
| 12 | bB | 917 | CLA | C1-C2-C3 | -2.04 | 122.52 | 126.04 |
| 12 | aB | 911 | CLA | CAA-C2A-C3A | -2.04 | 107.20 | 112.78 |
| 12 | aA | 827 | CLA | CHA-C1A-NA | -2.04 | 121.73 | 126.40 |
| 16 | aA | 852 | LHG | C11-C10-C9 | -2.04 | 104.09 | 114.42 |
| 12 | aB | 926 | CLA | CHA-C1A-NA | -2.04 | 121.73 | 126.40 |
| 12 | bB | 919 | CLA | CHB-C4A-NA | 2.04 | 127.33 | 124.51 |
| 12 | cB | 903 | CLA | O2A-CGA-CBA | 2.04 | 118.30 | 111.91 |
| 12 | cB | 939 | CLA | O2D-CGD-O1D | -2.04 | 119.86 | 123.84 |
| 12 | aA | 825 | CLA | C1-O2A-CGA | 2.04 | 121.78 | 116.44 |
| 16 | bA | 851 | LHG | C11-C10-C9 | -2.03 | 104.09 | 114.42 |
| 12 | bA | 806 | CLA | CHD-C4C-NC | 2.03 | 127.41 | 124.20 |
| 12 | cB | 901 | CLA | CMB-C2B-C1B | 2.03 | 131.59 | 128.46 |
| 12 | cA | 812 | CLA | C11-C10-C8 | -2.03 | 109.34 | 115.92 |
| 15 | aL | 205 | BCR | C38-C26-C27 | -2.03 | 109.71 | 113.62 |
| 12 | bL | 202 | CLA | CHB-C4A-NA | 2.03 | 127.33 | 124.51 |
| 12 | bA | 821 | CLA | CBC-CAC-C3C | -2.03 | 106.83 | 112.43 |
| 12 | bA | 825 | CLA | C1-O2A-CGA | 2.03 | 121.78 | 116.44 |
| 12 | cB | 910 | CLA | CMA-C3A-C4A | -2.03 | 106.31 | 111.77 |
| 12 | aB | 930 | CLA | CED-O2D-CGD | 2.03 | 120.53 | 115.94 |
| 12 | aA | 821 | CLA | CBC-CAC-C3C | -2.03 | 106.83 | 112.43 |
| 12 | cA | 837 | CLA | C1-C2-C3 | -2.03 | 122.53 | 126.04 |
| 12 | cA | 827 | CLA | CHA-C1A-NA | -2.03 | 121.74 | 126.40 |
| 16 | cA | 851 | LHG | C11-C10-C9 | -2.03 | 104.11 | 114.42 |
| 12 | aA | 807 | CLA | O2D-CGD-CBD | 2.03 | 114.88 | 111.27 |
| 12 | cB | 938 | CLA | C4-C3-C5 | 2.03 | 118.31 | 115.98 |
| 15 | aF | 201 | BCR | C10-C11-C12 | -2.03 | 116.88 | 123.22 |
| 12 | bB | 930 | CLA | CED-O2D-CGD | 2.03 | 120.53 | 115.94 |
| 12 | cB | 930 | CLA | CED-O2D-CGD | 2.03 | 120.53 | 115.94 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 15 | cF | 204 | BCR | C1-C6-C5 | -2.03 | 119.75 | 122.61 |
| 12 | cA | 821 | CLA | CBC-CAC-C3C | -2.03 | 106.84 | 112.43 |
| 12 | bB | 904 | CLA | O2A-C1-C2 | -2.03 | 103.30 | 108.64 |
| 15 | cL | 205 | BCR | C38-C26-C27 | -2.03 | 109.72 | 113.62 |
| 12 | bB | 902 | CLA | CED-O2D-CGD | 2.03 | 120.53 | 115.94 |
| 15 | cL | 205 | BCR | C15-C16-C17 | -2.03 | 119.32 | 123.47 |
| 11 | aA | 801 | CL0 | CHD-C4C-NC | 2.03 | 127.40 | 124.20 |
| 12 | bA | 827 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 12 | bA | 831 | CLA | CHA-C1A-NA | -2.03 | 121.75 | 126.40 |
| 12 | bB | 910 | CLA | CMA-C3A-C4A | -2.03 | 106.32 | 111.77 |
| 12 | bA | 818 | CLA | CMC-C2C-C1C | 2.03 | 128.13 | 125.04 |
| 12 | cB | 902 | CLA | CED-O2D-CGD | 2.03 | 120.52 | 115.94 |
| 12 | cB | 932 | CLA | CED-O2D-CGD | 2.03 | 120.52 | 115.94 |
| 15 | bL | 205 | BCR | C38-C26-C27 | -2.03 | 109.72 | 113.62 |
| 15 | cI | 101 | BCR | C11-C10-C9 | -2.03 | 124.42 | 127.31 |
| 11 | cA | 801 | CL0 | CHD-C4C-NC | 2.03 | 127.40 | 124.20 |
| 12 | aB | 910 | CLA | CMA-C3A-C4A | -2.03 | 106.33 | 111.77 |
| 12 | aB | 919 | CLA | CHB-C4A-NA | 2.03 | 127.31 | 124.51 |
| 12 | aB | 928 | CLA | O1D-CGD-CBD | -2.03 | 120.34 | 124.48 |
| 12 | aB | 932 | CLA | CED-O2D-CGD | 2.03 | 120.52 | 115.94 |
| 12 | cA | 819 | CLA | CHB-C4A-NA | 2.03 | 127.31 | 124.51 |
| 12 | cA | 830 | CLA | O2A-CGA-O1A | -2.03 | 118.48 | 123.59 |
| 12 | bA | 807 | CLA | O2D-CGD-CBD | 2.03 | 114.87 | 111.27 |
| 12 | cA | 832 | CLA | O2A-CGA-O1A | -2.02 | 118.48 | 123.59 |
| 12 | aA | 814 | CLA | O1D-CGD-CBD | -2.02 | 120.34 | 124.48 |
| 12 | aA | 812 | CLA | C11-C10-C8 | -2.02 | 109.38 | 115.92 |
| 15 | aF | 203 | BCR | C33-C5-C6 | -2.02 | 122.25 | 124.53 |
| 12 | aA | 819 | CLA | CHB-C4A-NA | 2.02 | 127.31 | 124.51 |
| 12 | cB | 909 | CLA | CHA-C1A-NA | -2.02 | 121.76 | 126.40 |
| 15 | bB | 945 | BCR | C27-C26-C25 | 2.02 | 125.67 | 122.73 |
| 12 | aB | 902 | CLA | CED-O2D-CGD | 2.02 | 120.51 | 115.94 |
| 12 | aA | 810 | CLA | O2A-CGA-CBA | 2.02 | 120.53 | 114.03 |
| 12 | cA | 825 | CLA | C1-O2A-CGA | 2.02 | 121.75 | 116.44 |
| 12 | aA | 831 | CLA | CHA-C1A-NA | -2.02 | 121.77 | 126.40 |
| 12 | bA | 832 | CLA | O2A-CGA-O1A | -2.02 | 118.49 | 123.59 |
| 15 | cL | 206 | BCR | C30-C25-C26 | -2.02 | 119.77 | 122.61 |
| 12 | aB | 904 | CLA | O2A-C1-C2 | -2.02 | 103.32 | 108.64 |
| 12 | bB | 908 | CLA | CMB-C2B-C3B | 2.02 | 128.46 | 124.68 |
| 15 | cB | 945 | BCR | C27-C26-C25 | 2.02 | 125.66 | 122.73 |
| 12 | cB | 949 | CLA | CAC-C3C-C2C | 2.02 | 130.98 | 127.53 |
| 12 | cB | 913 | CLA | O2A-CGA-O1A | -2.02 | 118.49 | 123.59 |
| 11 | aA | 801 | CL0 | C2A-C1A-CHA | -2.02 | 120.33 | 123.86 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | cB | 904 | CLA | O2A-C1-C2 | -2.02 | 103.33 | 108.64 |
| 12 | aB | 908 | CLA | CMB-C2B-C3B | 2.02 | 128.46 | 124.68 |
| 12 | cB | 903 | CLA | C1-C2-C3 | -2.02 | 122.55 | 126.04 |
| 12 | aB | 922 | CLA | O2D-CGD-O1D | -2.02 | 119.89 | 123.84 |
| 12 | bB | 932 | CLA | CMB-C2B-C1B | 2.02 | 131.56 | 128.46 |
| 12 | bA | 810 | CLA | O2A-CGA-CBA | 2.02 | 120.51 | 114.03 |
| 15 | bI | 101 | BCR | C30-C25-C26 | -2.02 | 119.77 | 122.61 |
| 12 | bA | 837 | CLA | C1-C2-C3 | -2.02 | 122.56 | 126.04 |
| 12 | cA | 814 | CLA | O1D-CGD-CBD | -2.02 | 120.36 | 124.48 |
| 15 | bL | 206 | BCR | C20-C21-C22 | -2.02 | 124.43 | 127.31 |
| 12 | cA | 831 | CLA | CHA-C1A-NA | -2.02 | 121.78 | 126.40 |
| 12 | bB | 903 | CLA | C1-C2-C3 | -2.02 | 122.56 | 126.04 |
| 12 | cA | 829 | CLA | CHA-C1A-NA | -2.01 | 121.78 | 126.40 |
| 12 | aA | 822 | CLA | O1D-CGD-CBD | -2.01 | 120.36 | 124.48 |
| 15 | aI | 101 | BCR | C30-C25-C26 | -2.01 | 119.78 | 122.61 |
| 12 | aA | 840 | CLA | O2D-CGD-O1D | -2.01 | 119.90 | 123.84 |
| 12 | aB | 937 | CLA | CMC-C2C-C1C | 2.01 | 128.10 | 125.04 |
| 12 | aA | 839 | CLA | CHB-C4A-NA | 2.01 | 127.30 | 124.51 |
| 12 | aB | 923 | CLA | C4-C3-C5 | 2.01 | 118.66 | 115.27 |
| 12 | bB | 932 | CLA | CED-O2D-CGD | 2.01 | 120.49 | 115.94 |
| 12 | cA | 818 | CLA | CBC-CAC-C3C | -2.01 | 106.88 | 112.43 |
| 15 | bI | 101 | BCR | C11-C10-C9 | -2.01 | 124.44 | 127.31 |
| 12 | aA | 834 | CLA | CBC-CAC-C3C | -2.01 | 106.89 | 112.43 |
| 12 | cB | 928 | CLA | O2A-CGA-O1A | -2.01 | 118.52 | 123.59 |
| 12 | cA | 818 | CLA | CMC-C2C-C1C | 2.01 | 128.10 | 125.04 |
| 12 | cA | 810 | CLA | O2A-CGA-CBA | 2.01 | 120.49 | 114.03 |
| 12 | bA | 840 | CLA | O2D-CGD-O1D | -2.01 | 119.91 | 123.84 |
| 12 | bA | 834 | CLA | CMC-C2C-C1C | 2.01 | 128.10 | 125.04 |
| 12 | aA | 840 | CLA | CHC-C1C-NC | 2.01 | 127.25 | 124.20 |
| 12 | aB | 939 | CLA | O2D-CGD-O1D | -2.01 | 119.91 | 123.84 |
| 12 | bA | 834 | CLA | CBC-CAC-C3C | -2.01 | 106.89 | 112.43 |
| 15 | aL | 205 | BCR | C15-C16-C17 | -2.01 | 119.36 | 123.47 |
| 12 | cA | 813 | CLA | CAA-C2A-C3A | -2.01 | 107.28 | 112.78 |
| 12 | bB | 928 | CLA | O2A-CGA-O1A | -2.01 | 118.52 | 123.59 |
| 12 | bB | 939 | CLA | O2D-CGD-O1D | -2.01 | 119.91 | 123.84 |
| 12 | aA | 818 | CLA | CBC-CAC-C3C | -2.01 | 106.89 | 112.43 |
| 12 | bA | 813 | CLA | CAA-C2A-C3A | -2.01 | 107.28 | 112.78 |
| 15 | bL | 205 | BCR | C15-C16-C17 | -2.01 | 119.36 | 123.47 |
| 12 | cA | 822 | CLA | O1D-CGD-CBD | -2.01 | 120.38 | 124.48 |
| 12 | bB | 926 | CLA | CMA-C3A-C2A | -2.01 | 105.73 | 113.83 |
| 12 | aB | 903 | CLA | C1-C2-C3 | -2.01 | 122.57 | 126.04 |
| 13 | cB | 940 | 1L3 | C33-C31-C32 | 2.01 | 119.04 | 114.60 |

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| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 12 | bB | 913 | CLA | CMA-C3A-C2A | -2.01 | 105.73 | 113.83 |
| 15 | cB | 942 | BCR | C38-C26-C27 | -2.01 | 109.76 | 113.62 |
| 12 | bB | 909 | CLA | CHA-C1A-NA | -2.01 | 121.80 | 126.40 |
| 12 | bA | 812 | CLA | C11-C10-C8 | -2.01 | 109.44 | 115.92 |
| 15 | aB | 945 | BCR | C40-C30-C25 | 2.01 | 113.55 | 110.30 |
| 12 | aA | 824 | CLA | CHA-C1A-NA | -2.01 | 121.81 | 126.40 |
| 12 | cB | 922 | CLA | CMA-C3A-C2A | -2.01 | 105.74 | 113.83 |
| 15 | aF | 204 | BCR | C1-C6-C5 | -2.01 | 119.79 | 122.61 |
| 12 | aB | 913 | CLA | CMA-C3A-C2A | -2.01 | 105.74 | 113.83 |
| 13 | aA | 845 | 1L3 | C27-C26-C28 | 2.00 | 118.64 | 115.27 |
| 15 | aF | 201 | BCR | C7-C8-C9 | -2.00 | 123.21 | 126.23 |
| 12 | bA | 818 | CLA | CBC-CAC-C3C | -2.00 | 106.91 | 112.43 |
| 12 | cB | 926 | CLA | CMA-C3A-C2A | -2.00 | 105.75 | 113.83 |
| 12 | aB | 909 | CLA | CHA-C1A-NA | -2.00 | 121.81 | 126.40 |
| 12 | cB | 908 | CLA | CMB-C2B-C3B | 2.00 | 128.43 | 124.68 |
| 15 | cI | 101 | BCR | C30-C25-C26 | -2.00 | 119.79 | 122.61 |
| 12 | aA | 813 | CLA | CAA-C2A-C3A | -2.00 | 107.30 | 112.78 |
| 13 | bB | 940 | 1L3 | C33-C31-C32 | 2.00 | 119.03 | 114.60 |
| 12 | cB | 913 | CLA | CMA-C3A-C2A | -2.00 | 105.76 | 113.83 |
| 12 | aA | 830 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |
| 12 | bB | 918 | CLA | O2A-CGA-CBA | 2.00 | 120.14 | 112.23 |
| 12 | cA | 824 | CLA | CHA-C1A-NA | -2.00 | 121.82 | 126.40 |
| 12 | bA | 830 | CLA | O2A-CGA-O1A | -2.00 | 118.54 | 123.59 |

All (225) chirality outliers are listed below:

| Mol | Chain | Res | Type | Atom |
|-----|-------|-----|------|------|
| 11 | aA | 801 | CL0 | ND |
| 11 | aA | 801 | CL0 | NC |
| 11 | aA | 801 | CL0 | NA |
| 11 | bA | 801 | CL0 | ND |
| 11 | bA | 801 | CL0 | NC |
| 11 | bA | 801 | CL0 | NA |
| 11 | cA | 801 | CL0 | ND |
| 11 | cA | 801 | CL0 | NC |
| 11 | cA | 801 | CL0 | NA |
| 12 | aA | 802 | CLA | ND |
| 12 | aA | 803 | CLA | ND |
| 12 | aA | 804 | CLA | ND |
| 12 | aA | 805 | CLA | ND |
| 12 | aA | 806 | CLA | ND |
| 12 | aA | 807 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 12 | aA | 808 | CLA | ND |
| 12 | aA | 809 | CLA | ND |
| 12 | aA | 810 | CLA | ND |
| 12 | aA | 811 | CLA | ND |
| 12 | aA | 812 | CLA | ND |
| 12 | aA | 813 | CLA | ND |
| 12 | aA | 814 | CLA | ND |
| 12 | aA | 816 | CLA | ND |
| 12 | aA | 818 | CLA | ND |
| 12 | aA | 819 | CLA | ND |
| 12 | aA | 820 | CLA | ND |
| 12 | aA | 821 | CLA | ND |
| 12 | aA | 823 | CLA | ND |
| 12 | aA | 825 | CLA | ND |
| 12 | aA | 826 | CLA | ND |
| 12 | aA | 827 | CLA | ND |
| 12 | aA | 828 | CLA | ND |
| 12 | aA | 829 | CLA | ND |
| 12 | aA | 830 | CLA | ND |
| 12 | aA | 832 | CLA | ND |
| 12 | aA | 833 | CLA | ND |
| 12 | aA | 834 | CLA | ND |
| 12 | aA | 835 | CLA | ND |
| 12 | aA | 836 | CLA | ND |
| 12 | aA | 837 | CLA | ND |
| 12 | aA | 838 | CLA | ND |
| 12 | aA | 839 | CLA | ND |
| 12 | aA | 840 | CLA | ND |
| 12 | aA | 841 | CLA | ND |
| 12 | aA | 842 | CLA | ND |
| 12 | aA | 843 | CLA | ND |
| 12 | aA | 854 | CLA | ND |
| 12 | aB | 901 | CLA | ND |
| 12 | aB | 902 | CLA | ND |
| 12 | aB | 903 | CLA | ND |
| 12 | aB | 904 | CLA | ND |
| 12 | aB | 905 | CLA | ND |
| 12 | aB | 906 | CLA | ND |
| 12 | aB | 907 | CLA | ND |
| 12 | aB | 908 | CLA | ND |
| 12 | aB | 909 | CLA | ND |
| 12 | aB | 910 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 12 | aB | 912 | CLA | ND |
| 12 | aB | 913 | CLA | ND |
| 12 | aB | 914 | CLA | ND |
| 12 | aB | 917 | CLA | ND |
| 12 | aB | 918 | CLA | ND |
| 12 | aB | 919 | CLA | ND |
| 12 | aB | 922 | CLA | ND |
| 12 | aB | 923 | CLA | ND |
| 12 | aB | 924 | CLA | ND |
| 12 | aB | 925 | CLA | ND |
| 12 | aB | 926 | CLA | ND |
| 12 | aB | 927 | CLA | ND |
| 12 | aB | 928 | CLA | ND |
| 12 | aB | 930 | CLA | ND |
| 12 | aB | 931 | CLA | ND |
| 12 | aB | 933 | CLA | ND |
| 12 | aB | 934 | CLA | ND |
| 12 | aB | 935 | CLA | ND |
| 12 | aB | 936 | CLA | ND |
| 12 | aB | 937 | CLA | ND |
| 12 | aB | 938 | CLA | ND |
| 12 | aB | 939 | CLA | ND |
| 12 | aB | 949 | CLA | ND |
| 12 | aF | 202 | CLA | ND |
| 12 | bA | 802 | CLA | ND |
| 12 | bA | 803 | CLA | ND |
| 12 | bA | 804 | CLA | ND |
| 12 | bA | 805 | CLA | ND |
| 12 | bA | 806 | CLA | ND |
| 12 | bA | 807 | CLA | ND |
| 12 | bA | 808 | CLA | ND |
| 12 | bA | 809 | CLA | ND |
| 12 | bA | 810 | CLA | ND |
| 12 | bA | 811 | CLA | ND |
| 12 | bA | 812 | CLA | ND |
| 12 | bA | 813 | CLA | ND |
| 12 | bA | 814 | CLA | ND |
| 12 | bA | 816 | CLA | ND |
| 12 | bA | 818 | CLA | ND |
| 12 | bA | 819 | CLA | ND |
| 12 | bA | 820 | CLA | ND |
| 12 | bA | 821 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 12 | bA | 823 | CLA | ND |
| 12 | bA | 825 | CLA | ND |
| 12 | bA | 826 | CLA | ND |
| 12 | bA | 827 | CLA | ND |
| 12 | bA | 828 | CLA | ND |
| 12 | bA | 829 | CLA | ND |
| 12 | bA | 830 | CLA | ND |
| 12 | bA | 832 | CLA | ND |
| 12 | bA | 833 | CLA | ND |
| 12 | bA | 834 | CLA | ND |
| 12 | bA | 835 | CLA | ND |
| 12 | bA | 836 | CLA | ND |
| 12 | bA | 837 | CLA | ND |
| 12 | bA | 838 | CLA | ND |
| 12 | bA | 839 | CLA | ND |
| 12 | bA | 840 | CLA | ND |
| 12 | bA | 841 | CLA | ND |
| 12 | bA | 842 | CLA | ND |
| 12 | bA | 843 | CLA | ND |
| 12 | bA | 853 | CLA | ND |
| 12 | bB | 901 | CLA | ND |
| 12 | bB | 902 | CLA | ND |
| 12 | bB | 903 | CLA | ND |
| 12 | bB | 904 | CLA | ND |
| 12 | bB | 905 | CLA | ND |
| 12 | bB | 906 | CLA | ND |
| 12 | bB | 907 | CLA | ND |
| 12 | bB | 908 | CLA | ND |
| 12 | bB | 909 | CLA | ND |
| 12 | bB | 910 | CLA | ND |
| 12 | bB | 912 | CLA | ND |
| 12 | bB | 913 | CLA | ND |
| 12 | bB | 914 | CLA | ND |
| 12 | bB | 917 | CLA | ND |
| 12 | bB | 918 | CLA | ND |
| 12 | bB | 919 | CLA | ND |
| 12 | bB | 922 | CLA | ND |
| 12 | bB | 923 | CLA | ND |
| 12 | bB | 924 | CLA | ND |
| 12 | bB | 925 | CLA | ND |
| 12 | bB | 926 | CLA | ND |
| 12 | bB | 927 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 12 | bB | 928 | CLA | ND |
| 12 | bB | 930 | CLA | ND |
| 12 | bB | 931 | CLA | ND |
| 12 | bB | 933 | CLA | ND |
| 12 | bB | 934 | CLA | ND |
| 12 | bB | 935 | CLA | ND |
| 12 | bB | 936 | CLA | ND |
| 12 | bB | 937 | CLA | ND |
| 12 | bB | 938 | CLA | ND |
| 12 | bB | 939 | CLA | ND |
| 12 | bB | 949 | CLA | ND |
| 12 | bF | 202 | CLA | ND |
| 12 | cA | 802 | CLA | ND |
| 12 | cA | 803 | CLA | ND |
| 12 | cA | 804 | CLA | ND |
| 12 | cA | 805 | CLA | ND |
| 12 | cA | 806 | CLA | ND |
| 12 | cA | 807 | CLA | ND |
| 12 | cA | 808 | CLA | ND |
| 12 | cA | 809 | CLA | ND |
| 12 | cA | 810 | CLA | ND |
| 12 | cA | 811 | CLA | ND |
| 12 | cA | 812 | CLA | ND |
| 12 | cA | 813 | CLA | ND |
| 12 | cA | 814 | CLA | ND |
| 12 | cA | 816 | CLA | ND |
| 12 | cA | 818 | CLA | ND |
| 12 | cA | 819 | CLA | ND |
| 12 | cA | 820 | CLA | ND |
| 12 | cA | 821 | CLA | ND |
| 12 | cA | 823 | CLA | ND |
| 12 | cA | 825 | CLA | ND |
| 12 | cA | 826 | CLA | ND |
| 12 | cA | 827 | CLA | ND |
| 12 | cA | 828 | CLA | ND |
| 12 | cA | 829 | CLA | ND |
| 12 | cA | 830 | CLA | ND |
| 12 | cA | 832 | CLA | ND |
| 12 | cA | 833 | CLA | ND |
| 12 | cA | 834 | CLA | ND |
| 12 | cA | 835 | CLA | ND |
| 12 | cA | 836 | CLA | ND |

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| Mol | Chain | Res | Type | Atom |
|------------|--------------|------------|-------------|-------------|
| 12 | cA | 837 | CLA | ND |
| 12 | cA | 838 | CLA | ND |
| 12 | cA | 839 | CLA | ND |
| 12 | cA | 840 | CLA | ND |
| 12 | cA | 841 | CLA | ND |
| 12 | cA | 842 | CLA | ND |
| 12 | cA | 843 | CLA | ND |
| 12 | cA | 853 | CLA | ND |
| 12 | cB | 901 | CLA | ND |
| 12 | cB | 902 | CLA | ND |
| 12 | cB | 903 | CLA | ND |
| 12 | cB | 904 | CLA | ND |
| 12 | cB | 905 | CLA | ND |
| 12 | cB | 906 | CLA | ND |
| 12 | cB | 907 | CLA | ND |
| 12 | cB | 908 | CLA | ND |
| 12 | cB | 909 | CLA | ND |
| 12 | cB | 910 | CLA | ND |
| 12 | cB | 912 | CLA | ND |
| 12 | cB | 913 | CLA | ND |
| 12 | cB | 914 | CLA | ND |
| 12 | cB | 917 | CLA | ND |
| 12 | cB | 918 | CLA | ND |
| 12 | cB | 919 | CLA | ND |
| 12 | cB | 922 | CLA | ND |
| 12 | cB | 923 | CLA | ND |
| 12 | cB | 924 | CLA | ND |
| 12 | cB | 925 | CLA | ND |
| 12 | cB | 926 | CLA | ND |
| 12 | cB | 927 | CLA | ND |
| 12 | cB | 928 | CLA | ND |
| 12 | cB | 930 | CLA | ND |
| 12 | cB | 931 | CLA | ND |
| 12 | cB | 933 | CLA | ND |
| 12 | cB | 934 | CLA | ND |
| 12 | cB | 935 | CLA | ND |
| 12 | cB | 936 | CLA | ND |
| 12 | cB | 937 | CLA | ND |
| 12 | cB | 938 | CLA | ND |
| 12 | cB | 939 | CLA | ND |
| 12 | cB | 949 | CLA | ND |
| 12 | cF | 202 | CLA | ND |

All (2490) torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 804 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 804 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 807 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 808 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 808 | CLA | C2-C3-C5-C6 |
| 12 | aA | 809 | CLA | CHA-CBD-CGD-O2D |
| 12 | aA | 811 | CLA | CHA-CBD-CGD-O1D |
| 12 | aA | 811 | CLA | CHA-CBD-CGD-O2D |
| 12 | aA | 817 | CLA | C2-C3-C5-C6 |
| 12 | aA | 817 | CLA | C4-C3-C5-C6 |
| 12 | aA | 818 | CLA | C4-C3-C5-C6 |
| 12 | aA | 819 | CLA | C2-C3-C5-C6 |
| 12 | aA | 819 | CLA | C4-C3-C5-C6 |
| 12 | aA | 820 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 820 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 823 | CLA | C2-C3-C5-C6 |
| 12 | aA | 823 | CLA | C4-C3-C5-C6 |
| 12 | aA | 824 | CLA | CHA-CBD-CGD-O1D |
| 12 | aA | 824 | CLA | CHA-CBD-CGD-O2D |
| 12 | aA | 830 | CLA | CHA-CBD-CGD-O1D |
| 12 | aA | 830 | CLA | CHA-CBD-CGD-O2D |
| 12 | aA | 832 | CLA | C2-C3-C5-C6 |
| 12 | aA | 832 | CLA | C4-C3-C5-C6 |
| 12 | aA | 833 | CLA | C2-C3-C5-C6 |
| 12 | aA | 833 | CLA | C4-C3-C5-C6 |
| 12 | aA | 834 | CLA | CHA-CBD-CGD-O1D |
| 12 | aA | 834 | CLA | CHA-CBD-CGD-O2D |
| 12 | aA | 837 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 837 | CLA | C2-C3-C5-C6 |
| 12 | aA | 837 | CLA | C4-C3-C5-C6 |
| 12 | aA | 839 | CLA | CHA-CBD-CGD-O1D |
| 12 | aA | 839 | CLA | CHA-CBD-CGD-O2D |
| 12 | aA | 840 | CLA | CHA-CBD-CGD-O1D |
| 12 | aA | 840 | CLA | CHA-CBD-CGD-O2D |
| 12 | aA | 841 | CLA | C2-C3-C5-C6 |
| 12 | aA | 841 | CLA | C4-C3-C5-C6 |
| 12 | aA | 842 | CLA | C2-C1-O2A-CGA |
| 12 | aB | 901 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 901 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 903 | CLA | C2-C3-C5-C6 |
| 12 | aB | 903 | CLA | C4-C3-C5-C6 |
| 12 | aB | 904 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aB | 904 | CLA | C3A-C2A-CAA-CBA |
| 12 | aB | 905 | CLA | C2-C3-C5-C6 |
| 12 | aB | 905 | CLA | C4-C3-C5-C6 |
| 12 | aB | 907 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 907 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 915 | CLA | C4-C3-C5-C6 |
| 12 | aB | 917 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 917 | CLA | C3A-C2A-CAA-CBA |
| 12 | aB | 917 | CLA | C2-C3-C5-C6 |
| 12 | aB | 917 | CLA | C4-C3-C5-C6 |
| 12 | aB | 919 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 919 | CLA | C3A-C2A-CAA-CBA |
| 12 | aB | 921 | CLA | C4-C3-C5-C6 |
| 12 | aB | 922 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 924 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 925 | CLA | C2-C3-C5-C6 |
| 12 | aB | 925 | CLA | C4-C3-C5-C6 |
| 12 | aB | 926 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 927 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 927 | CLA | C3A-C2A-CAA-CBA |
| 12 | aB | 927 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 927 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 929 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 929 | CLA | C3A-C2A-CAA-CBA |
| 12 | aF | 202 | CLA | C1A-C2A-CAA-CBA |
| 12 | aF | 202 | CLA | C3A-C2A-CAA-CBA |
| 12 | aF | 202 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 804 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 804 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 807 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 808 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 808 | CLA | C2-C3-C5-C6 |
| 12 | bA | 809 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 811 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 811 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 817 | CLA | C2-C3-C5-C6 |
| 12 | bA | 817 | CLA | C4-C3-C5-C6 |
| 12 | bA | 818 | CLA | C4-C3-C5-C6 |
| 12 | bA | 819 | CLA | C2-C3-C5-C6 |
| 12 | bA | 819 | CLA | C4-C3-C5-C6 |
| 12 | bA | 820 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 820 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bA | 823 | CLA | C2-C3-C5-C6 |
| 12 | bA | 823 | CLA | C4-C3-C5-C6 |
| 12 | bA | 824 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 824 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 830 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 830 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 832 | CLA | C2-C3-C5-C6 |
| 12 | bA | 832 | CLA | C4-C3-C5-C6 |
| 12 | bA | 833 | CLA | C2-C3-C5-C6 |
| 12 | bA | 833 | CLA | C4-C3-C5-C6 |
| 12 | bA | 834 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 834 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 837 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 837 | CLA | C2-C3-C5-C6 |
| 12 | bA | 837 | CLA | C4-C3-C5-C6 |
| 12 | bA | 839 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 839 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 840 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 840 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 841 | CLA | C2-C3-C5-C6 |
| 12 | bA | 841 | CLA | C4-C3-C5-C6 |
| 12 | bA | 842 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 901 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 901 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 903 | CLA | C2-C3-C5-C6 |
| 12 | bB | 903 | CLA | C4-C3-C5-C6 |
| 12 | bB | 904 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 904 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 905 | CLA | C2-C3-C5-C6 |
| 12 | bB | 905 | CLA | C4-C3-C5-C6 |
| 12 | bB | 907 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 907 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 915 | CLA | C4-C3-C5-C6 |
| 12 | bB | 917 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 917 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 917 | CLA | C2-C3-C5-C6 |
| 12 | bB | 917 | CLA | C4-C3-C5-C6 |
| 12 | bB | 919 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 919 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 921 | CLA | C4-C3-C5-C6 |
| 12 | bB | 922 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 924 | CLA | CHA-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 925 | CLA | C2-C3-C5-C6 |
| 12 | bB | 925 | CLA | C4-C3-C5-C6 |
| 12 | bB | 926 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 927 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 927 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 927 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 927 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 929 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 929 | CLA | C3A-C2A-CAA-CBA |
| 12 | bF | 202 | CLA | C1A-C2A-CAA-CBA |
| 12 | bF | 202 | CLA | C3A-C2A-CAA-CBA |
| 12 | bF | 202 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 804 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 804 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 807 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 808 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 808 | CLA | C2-C3-C5-C6 |
| 12 | cA | 809 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 811 | CLA | CHA-CBD-CGD-O1D |
| 12 | cA | 811 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 817 | CLA | C2-C3-C5-C6 |
| 12 | cA | 817 | CLA | C4-C3-C5-C6 |
| 12 | cA | 818 | CLA | C4-C3-C5-C6 |
| 12 | cA | 819 | CLA | C2-C3-C5-C6 |
| 12 | cA | 819 | CLA | C4-C3-C5-C6 |
| 12 | cA | 820 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 820 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 823 | CLA | C2-C3-C5-C6 |
| 12 | cA | 823 | CLA | C4-C3-C5-C6 |
| 12 | cA | 824 | CLA | CHA-CBD-CGD-O1D |
| 12 | cA | 824 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 830 | CLA | CHA-CBD-CGD-O1D |
| 12 | cA | 830 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 832 | CLA | C2-C3-C5-C6 |
| 12 | cA | 832 | CLA | C4-C3-C5-C6 |
| 12 | cA | 833 | CLA | C2-C3-C5-C6 |
| 12 | cA | 833 | CLA | C4-C3-C5-C6 |
| 12 | cA | 834 | CLA | CHA-CBD-CGD-O1D |
| 12 | cA | 834 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 837 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 837 | CLA | C2-C3-C5-C6 |
| 12 | cA | 837 | CLA | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 839 | CLA | CHA-CBD-CGD-O1D |
| 12 | cA | 839 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 840 | CLA | CHA-CBD-CGD-O1D |
| 12 | cA | 840 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 841 | CLA | C2-C3-C5-C6 |
| 12 | cA | 841 | CLA | C4-C3-C5-C6 |
| 12 | cA | 842 | CLA | C2-C1-O2A-CGA |
| 12 | cB | 901 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 901 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 903 | CLA | C2-C3-C5-C6 |
| 12 | cB | 903 | CLA | C4-C3-C5-C6 |
| 12 | cB | 904 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 904 | CLA | C3A-C2A-CAA-CBA |
| 12 | cB | 905 | CLA | C2-C3-C5-C6 |
| 12 | cB | 905 | CLA | C4-C3-C5-C6 |
| 12 | cB | 907 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 907 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 915 | CLA | C4-C3-C5-C6 |
| 12 | cB | 917 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 917 | CLA | C3A-C2A-CAA-CBA |
| 12 | cB | 917 | CLA | C2-C3-C5-C6 |
| 12 | cB | 917 | CLA | C4-C3-C5-C6 |
| 12 | cB | 919 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 919 | CLA | C3A-C2A-CAA-CBA |
| 12 | cB | 921 | CLA | C4-C3-C5-C6 |
| 12 | cB | 922 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 924 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 925 | CLA | C2-C3-C5-C6 |
| 12 | cB | 925 | CLA | C4-C3-C5-C6 |
| 12 | cB | 926 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 927 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 927 | CLA | C3A-C2A-CAA-CBA |
| 12 | cB | 927 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 927 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 929 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 929 | CLA | C3A-C2A-CAA-CBA |
| 12 | cF | 202 | CLA | C1A-C2A-CAA-CBA |
| 12 | cF | 202 | CLA | C3A-C2A-CAA-CBA |
| 12 | cF | 202 | CLA | CHA-CBD-CGD-O2D |
| 13 | aA | 845 | 1L3 | C22-C21-C23-C24 |
| 13 | bA | 844 | 1L3 | C20-C21-C23-C24 |
| 13 | bA | 844 | 1L3 | C22-C21-C23-C24 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 13 | cA | 844 | 1L3 | C22-C21-C23-C24 |
| 15 | aA | 847 | BCR | C1-C6-C7-C8 |
| 15 | aA | 847 | BCR | C7-C8-C9-C10 |
| 15 | aA | 847 | BCR | C17-C18-C19-C20 |
| 15 | aA | 847 | BCR | C37-C22-C23-C24 |
| 15 | aA | 847 | BCR | C22-C23-C24-C25 |
| 15 | aA | 848 | BCR | C7-C8-C9-C10 |
| 15 | aA | 848 | BCR | C7-C8-C9-C34 |
| 15 | aA | 848 | BCR | C37-C22-C23-C24 |
| 15 | aA | 849 | BCR | C22-C23-C24-C25 |
| 15 | aA | 850 | BCR | C1-C6-C7-C8 |
| 15 | aA | 850 | BCR | C7-C8-C9-C34 |
| 15 | aA | 850 | BCR | C17-C18-C19-C20 |
| 15 | aA | 850 | BCR | C18-C19-C20-C21 |
| 15 | aA | 850 | BCR | C21-C22-C23-C24 |
| 15 | aA | 851 | BCR | C7-C8-C9-C10 |
| 15 | aA | 851 | BCR | C20-C21-C22-C23 |
| 15 | aA | 851 | BCR | C21-C22-C23-C24 |
| 15 | aB | 941 | BCR | C37-C22-C23-C24 |
| 15 | aB | 942 | BCR | C1-C6-C7-C8 |
| 15 | aB | 942 | BCR | C21-C22-C23-C24 |
| 15 | aB | 942 | BCR | C37-C22-C23-C24 |
| 15 | aB | 943 | BCR | C11-C10-C9-C8 |
| 15 | aB | 943 | BCR | C11-C10-C9-C34 |
| 15 | aB | 944 | BCR | C1-C6-C7-C8 |
| 15 | aB | 944 | BCR | C6-C7-C8-C9 |
| 15 | aB | 944 | BCR | C7-C8-C9-C34 |
| 15 | aB | 944 | BCR | C11-C10-C9-C8 |
| 15 | aB | 944 | BCR | C18-C19-C20-C21 |
| 15 | aB | 944 | BCR | C20-C21-C22-C23 |
| 15 | aB | 944 | BCR | C20-C21-C22-C37 |
| 15 | aB | 944 | BCR | C21-C22-C23-C24 |
| 15 | aB | 944 | BCR | C37-C22-C23-C24 |
| 15 | aB | 945 | BCR | C23-C24-C25-C30 |
| 15 | aB | 946 | BCR | C1-C6-C7-C8 |
| 15 | aF | 201 | BCR | C14-C15-C16-C17 |
| 15 | aF | 201 | BCR | C21-C22-C23-C24 |
| 15 | aF | 203 | BCR | C7-C8-C9-C34 |
| 15 | aF | 204 | BCR | C7-C8-C9-C10 |
| 15 | aF | 204 | BCR | C7-C8-C9-C34 |
| 15 | aF | 204 | BCR | C23-C24-C25-C30 |
| 15 | aI | 101 | BCR | C7-C8-C9-C34 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | aI | 101 | BCR | C11-C12-C13-C35 |
| 15 | aI | 101 | BCR | C17-C18-C19-C20 |
| 15 | aI | 101 | BCR | C20-C21-C22-C23 |
| 15 | aI | 101 | BCR | C21-C22-C23-C24 |
| 15 | aJ | 101 | BCR | C5-C6-C7-C8 |
| 15 | aJ | 101 | BCR | C7-C8-C9-C10 |
| 15 | aJ | 101 | BCR | C7-C8-C9-C34 |
| 15 | aJ | 101 | BCR | C20-C21-C22-C37 |
| 15 | aJ | 101 | BCR | C22-C23-C24-C25 |
| 15 | aL | 201 | BCR | C7-C8-C9-C34 |
| 15 | aL | 201 | BCR | C23-C24-C25-C30 |
| 15 | aL | 205 | BCR | C7-C8-C9-C10 |
| 15 | aL | 205 | BCR | C7-C8-C9-C34 |
| 15 | aL | 205 | BCR | C21-C22-C23-C24 |
| 15 | aL | 205 | BCR | C23-C24-C25-C26 |
| 15 | aL | 205 | BCR | C23-C24-C25-C30 |
| 15 | aL | 206 | BCR | C1-C6-C7-C8 |
| 15 | aM | 101 | BCR | C7-C8-C9-C34 |
| 15 | aM | 101 | BCR | C17-C18-C19-C20 |
| 15 | aM | 101 | BCR | C36-C18-C19-C20 |
| 15 | aM | 101 | BCR | C20-C21-C22-C23 |
| 15 | aM | 101 | BCR | C20-C21-C22-C37 |
| 15 | aM | 101 | BCR | C21-C22-C23-C24 |
| 15 | bA | 846 | BCR | C1-C6-C7-C8 |
| 15 | bA | 846 | BCR | C7-C8-C9-C10 |
| 15 | bA | 846 | BCR | C17-C18-C19-C20 |
| 15 | bA | 846 | BCR | C37-C22-C23-C24 |
| 15 | bA | 846 | BCR | C22-C23-C24-C25 |
| 15 | bA | 847 | BCR | C7-C8-C9-C10 |
| 15 | bA | 847 | BCR | C7-C8-C9-C34 |
| 15 | bA | 847 | BCR | C37-C22-C23-C24 |
| 15 | bA | 848 | BCR | C22-C23-C24-C25 |
| 15 | bA | 849 | BCR | C1-C6-C7-C8 |
| 15 | bA | 849 | BCR | C7-C8-C9-C34 |
| 15 | bA | 849 | BCR | C17-C18-C19-C20 |
| 15 | bA | 849 | BCR | C18-C19-C20-C21 |
| 15 | bA | 849 | BCR | C21-C22-C23-C24 |
| 15 | bA | 850 | BCR | C7-C8-C9-C10 |
| 15 | bA | 850 | BCR | C20-C21-C22-C23 |
| 15 | bA | 850 | BCR | C21-C22-C23-C24 |
| 15 | bB | 941 | BCR | C37-C22-C23-C24 |
| 15 | bB | 942 | BCR | C1-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | bB | 942 | BCR | C21-C22-C23-C24 |
| 15 | bB | 942 | BCR | C37-C22-C23-C24 |
| 15 | bB | 943 | BCR | C11-C10-C9-C8 |
| 15 | bB | 943 | BCR | C11-C10-C9-C34 |
| 15 | bB | 944 | BCR | C1-C6-C7-C8 |
| 15 | bB | 944 | BCR | C6-C7-C8-C9 |
| 15 | bB | 944 | BCR | C7-C8-C9-C34 |
| 15 | bB | 944 | BCR | C11-C10-C9-C8 |
| 15 | bB | 944 | BCR | C18-C19-C20-C21 |
| 15 | bB | 944 | BCR | C20-C21-C22-C23 |
| 15 | bB | 944 | BCR | C20-C21-C22-C37 |
| 15 | bB | 944 | BCR | C21-C22-C23-C24 |
| 15 | bB | 944 | BCR | C37-C22-C23-C24 |
| 15 | bB | 945 | BCR | C23-C24-C25-C30 |
| 15 | bB | 946 | BCR | C1-C6-C7-C8 |
| 15 | bF | 201 | BCR | C14-C15-C16-C17 |
| 15 | bF | 201 | BCR | C21-C22-C23-C24 |
| 15 | bF | 203 | BCR | C7-C8-C9-C34 |
| 15 | bF | 204 | BCR | C7-C8-C9-C10 |
| 15 | bF | 204 | BCR | C7-C8-C9-C34 |
| 15 | bF | 204 | BCR | C23-C24-C25-C30 |
| 15 | bI | 101 | BCR | C7-C8-C9-C34 |
| 15 | bI | 101 | BCR | C11-C12-C13-C35 |
| 15 | bI | 101 | BCR | C17-C18-C19-C20 |
| 15 | bI | 101 | BCR | C20-C21-C22-C23 |
| 15 | bI | 101 | BCR | C21-C22-C23-C24 |
| 15 | bJ | 101 | BCR | C5-C6-C7-C8 |
| 15 | bJ | 101 | BCR | C7-C8-C9-C10 |
| 15 | bJ | 101 | BCR | C7-C8-C9-C34 |
| 15 | bJ | 101 | BCR | C20-C21-C22-C37 |
| 15 | bJ | 101 | BCR | C22-C23-C24-C25 |
| 15 | bL | 201 | BCR | C7-C8-C9-C34 |
| 15 | bL | 201 | BCR | C23-C24-C25-C30 |
| 15 | bL | 205 | BCR | C7-C8-C9-C10 |
| 15 | bL | 205 | BCR | C21-C22-C23-C24 |
| 15 | bL | 205 | BCR | C23-C24-C25-C26 |
| 15 | bL | 205 | BCR | C23-C24-C25-C30 |
| 15 | bL | 206 | BCR | C1-C6-C7-C8 |
| 15 | bM | 101 | BCR | C7-C8-C9-C34 |
| 15 | bM | 101 | BCR | C17-C18-C19-C20 |
| 15 | bM | 101 | BCR | C36-C18-C19-C20 |
| 15 | bM | 101 | BCR | C20-C21-C22-C23 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | bM | 101 | BCR | C20-C21-C22-C37 |
| 15 | bM | 101 | BCR | C21-C22-C23-C24 |
| 15 | cA | 846 | BCR | C1-C6-C7-C8 |
| 15 | cA | 846 | BCR | C7-C8-C9-C10 |
| 15 | cA | 846 | BCR | C17-C18-C19-C20 |
| 15 | cA | 846 | BCR | C37-C22-C23-C24 |
| 15 | cA | 846 | BCR | C22-C23-C24-C25 |
| 15 | cA | 847 | BCR | C7-C8-C9-C10 |
| 15 | cA | 847 | BCR | C7-C8-C9-C34 |
| 15 | cA | 847 | BCR | C37-C22-C23-C24 |
| 15 | cA | 848 | BCR | C22-C23-C24-C25 |
| 15 | cA | 849 | BCR | C1-C6-C7-C8 |
| 15 | cA | 849 | BCR | C7-C8-C9-C34 |
| 15 | cA | 849 | BCR | C17-C18-C19-C20 |
| 15 | cA | 849 | BCR | C18-C19-C20-C21 |
| 15 | cA | 849 | BCR | C21-C22-C23-C24 |
| 15 | cA | 850 | BCR | C7-C8-C9-C10 |
| 15 | cA | 850 | BCR | C20-C21-C22-C23 |
| 15 | cA | 850 | BCR | C21-C22-C23-C24 |
| 15 | cB | 941 | BCR | C37-C22-C23-C24 |
| 15 | cB | 942 | BCR | C1-C6-C7-C8 |
| 15 | cB | 942 | BCR | C21-C22-C23-C24 |
| 15 | cB | 942 | BCR | C37-C22-C23-C24 |
| 15 | cB | 943 | BCR | C11-C10-C9-C8 |
| 15 | cB | 943 | BCR | C11-C10-C9-C34 |
| 15 | cB | 944 | BCR | C1-C6-C7-C8 |
| 15 | cB | 944 | BCR | C6-C7-C8-C9 |
| 15 | cB | 944 | BCR | C7-C8-C9-C34 |
| 15 | cB | 944 | BCR | C11-C10-C9-C8 |
| 15 | cB | 944 | BCR | C18-C19-C20-C21 |
| 15 | cB | 944 | BCR | C20-C21-C22-C23 |
| 15 | cB | 944 | BCR | C20-C21-C22-C37 |
| 15 | cB | 944 | BCR | C21-C22-C23-C24 |
| 15 | cB | 944 | BCR | C37-C22-C23-C24 |
| 15 | cB | 945 | BCR | C23-C24-C25-C30 |
| 15 | cB | 946 | BCR | C1-C6-C7-C8 |
| 15 | cF | 201 | BCR | C14-C15-C16-C17 |
| 15 | cF | 201 | BCR | C21-C22-C23-C24 |
| 15 | cF | 203 | BCR | C7-C8-C9-C34 |
| 15 | cF | 204 | BCR | C7-C8-C9-C10 |
| 15 | cF | 204 | BCR | C7-C8-C9-C34 |
| 15 | cF | 204 | BCR | C23-C24-C25-C30 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | cI | 101 | BCR | C7-C8-C9-C34 |
| 15 | cI | 101 | BCR | C11-C12-C13-C35 |
| 15 | cI | 101 | BCR | C17-C18-C19-C20 |
| 15 | cI | 101 | BCR | C20-C21-C22-C23 |
| 15 | cI | 101 | BCR | C21-C22-C23-C24 |
| 15 | cJ | 101 | BCR | C5-C6-C7-C8 |
| 15 | cJ | 101 | BCR | C7-C8-C9-C10 |
| 15 | cJ | 101 | BCR | C7-C8-C9-C34 |
| 15 | cJ | 101 | BCR | C20-C21-C22-C37 |
| 15 | cJ | 101 | BCR | C22-C23-C24-C25 |
| 15 | cL | 201 | BCR | C7-C8-C9-C34 |
| 15 | cL | 201 | BCR | C23-C24-C25-C30 |
| 15 | cL | 205 | BCR | C7-C8-C9-C10 |
| 15 | cL | 205 | BCR | C21-C22-C23-C24 |
| 15 | cL | 205 | BCR | C23-C24-C25-C26 |
| 15 | cL | 205 | BCR | C23-C24-C25-C30 |
| 15 | cL | 206 | BCR | C1-C6-C7-C8 |
| 15 | cM | 101 | BCR | C7-C8-C9-C34 |
| 15 | cM | 101 | BCR | C17-C18-C19-C20 |
| 15 | cM | 101 | BCR | C36-C18-C19-C20 |
| 15 | cM | 101 | BCR | C20-C21-C22-C23 |
| 15 | cM | 101 | BCR | C20-C21-C22-C37 |
| 15 | cM | 101 | BCR | C21-C22-C23-C24 |
| 16 | aA | 852 | LHG | C3-O3-P-O5 |
| 16 | aA | 852 | LHG | O7-C5-C6-O8 |
| 16 | aA | 853 | LHG | C3-O3-P-O5 |
| 16 | aA | 853 | LHG | C3-O3-P-O6 |
| 16 | aA | 853 | LHG | C4-O6-P-O5 |
| 16 | aB | 948 | LHG | C4-O6-P-O5 |
| 16 | bA | 851 | LHG | C3-O3-P-O5 |
| 16 | bA | 851 | LHG | O7-C5-C6-O8 |
| 16 | bA | 852 | LHG | C3-O3-P-O6 |
| 16 | bA | 852 | LHG | C4-O6-P-O5 |
| 16 | bB | 948 | LHG | C4-O6-P-O5 |
| 16 | cA | 851 | LHG | C3-O3-P-O5 |
| 16 | cA | 851 | LHG | O7-C5-C6-O8 |
| 16 | cA | 852 | LHG | C3-O3-P-O6 |
| 16 | cA | 852 | LHG | C4-O6-P-O5 |
| 16 | cB | 948 | LHG | C4-O6-P-O5 |
| 12 | aA | 844 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 950 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 950 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 837 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 837 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 805 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 815 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 834 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 935 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 805 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 815 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 834 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 935 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 805 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 815 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 834 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 935 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 822 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 930 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 822 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 837 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 930 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 822 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 930 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 837 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 837 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 837 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 915 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 915 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 915 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 807 | CLA | C3-C5-C6-C7 |
| 12 | aA | 820 | CLA | C3-C5-C6-C7 |
| 12 | aA | 832 | CLA | C3-C5-C6-C7 |
| 12 | aB | 912 | CLA | C3-C5-C6-C7 |
| 12 | aL | 202 | CLA | C3-C5-C6-C7 |
| 12 | bA | 807 | CLA | C3-C5-C6-C7 |
| 12 | bA | 820 | CLA | C3-C5-C6-C7 |
| 12 | bA | 832 | CLA | C3-C5-C6-C7 |
| 12 | bB | 912 | CLA | C3-C5-C6-C7 |
| 12 | bL | 202 | CLA | C3-C5-C6-C7 |
| 12 | cA | 807 | CLA | C3-C5-C6-C7 |
| 12 | cA | 820 | CLA | C3-C5-C6-C7 |
| 12 | cA | 832 | CLA | C3-C5-C6-C7 |
| 12 | cB | 912 | CLA | C3-C5-C6-C7 |
| 12 | cL | 202 | CLA | C3-C5-C6-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 823 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 930 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 823 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 930 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 823 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 930 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 902 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 902 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 902 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 915 | CLA | C3-C5-C6-C7 |
| 12 | bB | 915 | CLA | C3-C5-C6-C7 |
| 12 | cB | 915 | CLA | C3-C5-C6-C7 |
| 12 | aA | 818 | CLA | C2-C3-C5-C6 |
| 12 | aB | 921 | CLA | C2-C3-C5-C6 |
| 12 | bA | 818 | CLA | C2-C3-C5-C6 |
| 12 | bB | 921 | CLA | C2-C3-C5-C6 |
| 12 | cA | 818 | CLA | C2-C3-C5-C6 |
| 12 | cB | 921 | CLA | C2-C3-C5-C6 |
| 13 | aA | 845 | 1L3 | C20-C21-C23-C24 |
| 13 | cA | 844 | 1L3 | C20-C21-C23-C24 |
| 12 | aB | 921 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 921 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 921 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 809 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 820 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 829 | CLA | C2A-CAA-CBA-CGA |
| 12 | aB | 923 | CLA | C2A-CAA-CBA-CGA |
| 12 | aF | 202 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 809 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 820 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 829 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 923 | CLA | C2A-CAA-CBA-CGA |
| 12 | bF | 202 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 809 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 820 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 829 | CLA | C2A-CAA-CBA-CGA |
| 12 | cB | 923 | CLA | C2A-CAA-CBA-CGA |
| 12 | cF | 202 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 806 | CLA | C3-C5-C6-C7 |
| 12 | aA | 818 | CLA | C3-C5-C6-C7 |
| 12 | bA | 806 | CLA | C3-C5-C6-C7 |
| 12 | bA | 818 | CLA | C3-C5-C6-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 806 | CLA | C3-C5-C6-C7 |
| 12 | cA | 818 | CLA | C3-C5-C6-C7 |
| 12 | aA | 822 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 837 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 915 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 822 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 837 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 915 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 822 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 837 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 915 | CLA | CBA-CGA-O2A-C1 |
| 16 | aA | 852 | LHG | C28-C29-C30-C31 |
| 16 | bA | 851 | LHG | C28-C29-C30-C31 |
| 16 | cA | 851 | LHG | C28-C29-C30-C31 |
| 12 | aA | 818 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 922 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 818 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 922 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 818 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 922 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 823 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 823 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 823 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 829 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 905 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 908 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 829 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 905 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 908 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 829 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 905 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 908 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 832 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 917 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 832 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 917 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 832 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 917 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 808 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 808 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 808 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 949 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 949 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 832 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 832 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 832 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 915 | CLA | C2-C3-C5-C6 |
| 12 | bB | 915 | CLA | C2-C3-C5-C6 |
| 12 | cB | 915 | CLA | C2-C3-C5-C6 |
| 12 | cB | 949 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 831 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 841 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 844 | CLA | C2A-CAA-CBA-CGA |
| 12 | aB | 938 | CLA | C2A-CAA-CBA-CGA |
| 12 | aB | 950 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 831 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 841 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 938 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 950 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 831 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 841 | CLA | C2A-CAA-CBA-CGA |
| 12 | cB | 938 | CLA | C2A-CAA-CBA-CGA |
| 13 | aA | 845 | 1L3 | C26-C28-C29-C30 |
| 13 | bA | 844 | 1L3 | C26-C28-C29-C30 |
| 13 | cA | 844 | 1L3 | C26-C28-C29-C30 |
| 12 | aA | 804 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 804 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 921 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 844 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 950 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 950 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 926 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 926 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 926 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 834 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 834 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 834 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 807 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 812 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 818 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 820 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 921 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 807 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 812 | CLA | CBA-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bA | 818 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 820 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 921 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 804 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 807 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 812 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 818 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 820 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 927 | CLA | C5-C6-C7-C8 |
| 12 | bB | 927 | CLA | C5-C6-C7-C8 |
| 12 | cB | 927 | CLA | C5-C6-C7-C8 |
| 12 | aB | 916 | CLA | C10-C11-C12-C13 |
| 12 | bB | 916 | CLA | C10-C11-C12-C13 |
| 12 | cB | 916 | CLA | C10-C11-C12-C13 |
| 12 | aA | 804 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 917 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 804 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 804 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 838 | CLA | C11-C12-C13-C14 |
| 12 | aA | 842 | CLA | C11-C10-C8-C9 |
| 12 | aB | 912 | CLA | C6-C7-C8-C9 |
| 12 | bA | 838 | CLA | C11-C12-C13-C14 |
| 12 | bA | 842 | CLA | C11-C10-C8-C9 |
| 12 | bB | 912 | CLA | C6-C7-C8-C9 |
| 12 | cA | 838 | CLA | C11-C12-C13-C14 |
| 12 | cA | 842 | CLA | C11-C10-C8-C9 |
| 12 | cB | 912 | CLA | C6-C7-C8-C9 |
| 12 | aA | 805 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 805 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 805 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 854 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 853 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 853 | CLA | C2A-CAA-CBA-CGA |
| 15 | aA | 847 | BCR | C7-C8-C9-C34 |
| 15 | aA | 849 | BCR | C37-C22-C23-C24 |
| 15 | aA | 850 | BCR | C11-C12-C13-C35 |
| 15 | aA | 851 | BCR | C37-C22-C23-C24 |
| 15 | aB | 943 | BCR | C7-C8-C9-C34 |
| 15 | aF | 201 | BCR | C7-C8-C9-C34 |
| 15 | aF | 201 | BCR | C37-C22-C23-C24 |
| 15 | aI | 101 | BCR | C37-C22-C23-C24 |
| 15 | aJ | 101 | BCR | C37-C22-C23-C24 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | aL | 206 | BCR | C37-C22-C23-C24 |
| 15 | bA | 846 | BCR | C7-C8-C9-C34 |
| 15 | bA | 848 | BCR | C37-C22-C23-C24 |
| 15 | bA | 849 | BCR | C11-C12-C13-C35 |
| 15 | bA | 850 | BCR | C37-C22-C23-C24 |
| 15 | bB | 943 | BCR | C7-C8-C9-C34 |
| 15 | bF | 201 | BCR | C7-C8-C9-C34 |
| 15 | bF | 201 | BCR | C37-C22-C23-C24 |
| 15 | bI | 101 | BCR | C37-C22-C23-C24 |
| 15 | bJ | 101 | BCR | C37-C22-C23-C24 |
| 15 | bL | 205 | BCR | C7-C8-C9-C34 |
| 15 | bL | 206 | BCR | C37-C22-C23-C24 |
| 15 | cA | 846 | BCR | C7-C8-C9-C34 |
| 15 | cA | 848 | BCR | C37-C22-C23-C24 |
| 15 | cA | 849 | BCR | C11-C12-C13-C35 |
| 15 | cA | 850 | BCR | C37-C22-C23-C24 |
| 15 | cB | 943 | BCR | C7-C8-C9-C34 |
| 15 | cF | 201 | BCR | C7-C8-C9-C34 |
| 15 | cF | 201 | BCR | C37-C22-C23-C24 |
| 15 | cI | 101 | BCR | C37-C22-C23-C24 |
| 15 | cJ | 101 | BCR | C37-C22-C23-C24 |
| 15 | cL | 205 | BCR | C7-C8-C9-C34 |
| 15 | cL | 206 | BCR | C37-C22-C23-C24 |
| 15 | aB | 941 | BCR | C7-C8-C9-C10 |
| 15 | aB | 943 | BCR | C7-C8-C9-C10 |
| 15 | aF | 201 | BCR | C7-C8-C9-C10 |
| 15 | aL | 206 | BCR | C21-C22-C23-C24 |
| 15 | bB | 941 | BCR | C7-C8-C9-C10 |
| 15 | bB | 943 | BCR | C7-C8-C9-C10 |
| 15 | bF | 201 | BCR | C7-C8-C9-C10 |
| 15 | bL | 206 | BCR | C21-C22-C23-C24 |
| 15 | cB | 941 | BCR | C7-C8-C9-C10 |
| 15 | cB | 943 | BCR | C7-C8-C9-C10 |
| 15 | cF | 201 | BCR | C7-C8-C9-C10 |
| 15 | cL | 206 | BCR | C21-C22-C23-C24 |
| 12 | aA | 807 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 812 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 818 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 820 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 807 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 812 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 818 | CLA | O1A-CGA-O2A-C1 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bA | 820 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 917 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 807 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 812 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 818 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 820 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 917 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 820 | CLA | C5-C6-C7-C8 |
| 12 | aA | 843 | CLA | C13-C15-C16-C17 |
| 12 | bA | 820 | CLA | C5-C6-C7-C8 |
| 12 | bA | 843 | CLA | C13-C15-C16-C17 |
| 12 | cA | 820 | CLA | C5-C6-C7-C8 |
| 12 | aA | 831 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 831 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 831 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 904 | CLA | C15-C16-C17-C18 |
| 12 | aB | 931 | CLA | C15-C16-C17-C18 |
| 12 | bB | 904 | CLA | C15-C16-C17-C18 |
| 12 | bB | 931 | CLA | C15-C16-C17-C18 |
| 12 | cA | 843 | CLA | C13-C15-C16-C17 |
| 12 | cB | 904 | CLA | C15-C16-C17-C18 |
| 12 | cB | 931 | CLA | C15-C16-C17-C18 |
| 17 | aB | 947 | LMG | C28-C29-C30-C31 |
| 17 | bB | 947 | LMG | C28-C29-C30-C31 |
| 17 | cB | 947 | LMG | C28-C29-C30-C31 |
| 12 | aB | 935 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 935 | CLA | O1D-CGD-O2D-CED |
| 12 | cB | 935 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 843 | CLA | C15-C16-C17-C18 |
| 12 | bA | 843 | CLA | C15-C16-C17-C18 |
| 12 | cA | 843 | CLA | C15-C16-C17-C18 |
| 12 | aA | 806 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 806 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 806 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 902 | CLA | C5-C6-C7-C8 |
| 12 | aB | 931 | CLA | C10-C11-C12-C13 |
| 12 | bB | 902 | CLA | C5-C6-C7-C8 |
| 12 | bB | 931 | CLA | C10-C11-C12-C13 |
| 12 | cB | 902 | CLA | C5-C6-C7-C8 |
| 12 | cB | 931 | CLA | C10-C11-C12-C13 |
| 16 | aB | 948 | LHG | O10-C23-O8-C6 |
| 16 | bB | 948 | LHG | O10-C23-O8-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 16 | cB | 948 | LHG | O10-C23-O8-C6 |
| 12 | aA | 804 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 804 | CLA | C2-C1-O2A-CGA |
| 12 | cA | 804 | CLA | C2-C1-O2A-CGA |
| 12 | aB | 907 | CLA | C3-C5-C6-C7 |
| 12 | bB | 907 | CLA | C3-C5-C6-C7 |
| 12 | cB | 907 | CLA | C3-C5-C6-C7 |
| 12 | aA | 825 | CLA | C8-C10-C11-C12 |
| 12 | bA | 825 | CLA | C8-C10-C11-C12 |
| 12 | cA | 825 | CLA | C8-C10-C11-C12 |
| 12 | aB | 931 | CLA | C6-C7-C8-C10 |
| 12 | bB | 931 | CLA | C6-C7-C8-C10 |
| 12 | cB | 931 | CLA | C6-C7-C8-C10 |
| 12 | bB | 901 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 915 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 915 | CLA | C2A-CAA-CBA-CGA |
| 12 | cB | 915 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 825 | CLA | C10-C11-C12-C13 |
| 12 | aB | 925 | CLA | C5-C6-C7-C8 |
| 12 | bA | 825 | CLA | C10-C11-C12-C13 |
| 12 | bB | 925 | CLA | C5-C6-C7-C8 |
| 12 | cA | 825 | CLA | C10-C11-C12-C13 |
| 12 | aB | 901 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 901 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 840 | CLA | C8-C10-C11-C12 |
| 12 | bA | 840 | CLA | C8-C10-C11-C12 |
| 12 | cA | 840 | CLA | C8-C10-C11-C12 |
| 12 | cB | 925 | CLA | C5-C6-C7-C8 |
| 15 | aA | 847 | BCR | C18-C19-C20-C21 |
| 15 | aB | 942 | BCR | C10-C11-C12-C13 |
| 15 | aJ | 101 | BCR | C18-C19-C20-C21 |
| 15 | aM | 101 | BCR | C18-C19-C20-C21 |
| 15 | bA | 846 | BCR | C18-C19-C20-C21 |
| 15 | bB | 942 | BCR | C10-C11-C12-C13 |
| 15 | bJ | 101 | BCR | C18-C19-C20-C21 |
| 15 | bM | 101 | BCR | C18-C19-C20-C21 |
| 15 | cA | 846 | BCR | C18-C19-C20-C21 |
| 15 | cB | 942 | BCR | C10-C11-C12-C13 |
| 15 | cJ | 101 | BCR | C18-C19-C20-C21 |
| 15 | cM | 101 | BCR | C18-C19-C20-C21 |
| 12 | aA | 825 | CLA | C15-C16-C17-C18 |
| 12 | aA | 838 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bA | 838 | CLA | C10-C11-C12-C13 |
| 12 | cA | 838 | CLA | C10-C11-C12-C13 |
| 12 | aB | 921 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 921 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 921 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 803 | CLA | C13-C15-C16-C17 |
| 12 | bA | 803 | CLA | C13-C15-C16-C17 |
| 12 | bA | 825 | CLA | C15-C16-C17-C18 |
| 12 | cA | 803 | CLA | C13-C15-C16-C17 |
| 12 | aA | 815 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 815 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 815 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 831 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 831 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 831 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 842 | CLA | C8-C10-C11-C12 |
| 12 | bA | 842 | CLA | C8-C10-C11-C12 |
| 12 | cA | 825 | CLA | C15-C16-C17-C18 |
| 12 | cA | 842 | CLA | C8-C10-C11-C12 |
| 16 | aA | 853 | LHG | C4-O6-P-O3 |
| 16 | aB | 948 | LHG | C3-O3-P-O6 |
| 16 | bA | 852 | LHG | C4-O6-P-O3 |
| 16 | bB | 948 | LHG | C3-O3-P-O6 |
| 16 | cA | 852 | LHG | C4-O6-P-O3 |
| 16 | cB | 948 | LHG | C3-O3-P-O6 |
| 12 | aA | 830 | CLA | C3-C5-C6-C7 |
| 12 | aB | 909 | CLA | C3-C5-C6-C7 |
| 12 | bA | 830 | CLA | C3-C5-C6-C7 |
| 12 | bB | 909 | CLA | C3-C5-C6-C7 |
| 12 | bB | 923 | CLA | C3-C5-C6-C7 |
| 12 | cB | 909 | CLA | C3-C5-C6-C7 |
| 12 | aA | 832 | CLA | C5-C6-C7-C8 |
| 12 | bA | 832 | CLA | C5-C6-C7-C8 |
| 12 | cA | 832 | CLA | C5-C6-C7-C8 |
| 12 | aB | 926 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 926 | CLA | C2A-CAA-CBA-CGA |
| 12 | cB | 926 | CLA | C2A-CAA-CBA-CGA |
| 12 | aB | 923 | CLA | C3-C5-C6-C7 |
| 12 | cA | 830 | CLA | C3-C5-C6-C7 |
| 12 | cB | 923 | CLA | C3-C5-C6-C7 |
| 12 | aA | 824 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 916 | CLA | CBD-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bA | 824 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 916 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 824 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 916 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 829 | CLA | C5-C6-C7-C8 |
| 12 | bA | 829 | CLA | C5-C6-C7-C8 |
| 12 | cA | 829 | CLA | C5-C6-C7-C8 |
| 15 | aA | 849 | BCR | C20-C21-C22-C37 |
| 15 | aB | 942 | BCR | C11-C10-C9-C34 |
| 15 | aB | 944 | BCR | C11-C10-C9-C34 |
| 15 | aF | 203 | BCR | C20-C21-C22-C37 |
| 15 | aM | 101 | BCR | C16-C17-C18-C36 |
| 15 | bA | 848 | BCR | C20-C21-C22-C37 |
| 15 | bB | 942 | BCR | C11-C10-C9-C34 |
| 15 | bB | 944 | BCR | C11-C10-C9-C34 |
| 15 | bF | 203 | BCR | C20-C21-C22-C37 |
| 15 | bM | 101 | BCR | C16-C17-C18-C36 |
| 15 | cA | 848 | BCR | C20-C21-C22-C37 |
| 15 | cB | 942 | BCR | C11-C10-C9-C34 |
| 15 | cB | 944 | BCR | C11-C10-C9-C34 |
| 15 | cF | 203 | BCR | C20-C21-C22-C37 |
| 15 | cM | 101 | BCR | C16-C17-C18-C36 |
| 12 | aB | 904 | CLA | C16-C17-C18-C19 |
| 12 | bB | 904 | CLA | C16-C17-C18-C19 |
| 12 | cB | 904 | CLA | C16-C17-C18-C19 |
| 16 | aA | 852 | LHG | C13-C14-C15-C16 |
| 16 | cA | 851 | LHG | C13-C14-C15-C16 |
| 12 | aA | 854 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 853 | CLA | CBD-CGD-O2D-CED |
| 16 | bA | 851 | LHG | C13-C14-C15-C16 |
| 12 | aB | 905 | CLA | O1D-CGD-O2D-CED |
| 12 | cB | 905 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 905 | CLA | O1D-CGD-O2D-CED |
| 15 | aA | 847 | BCR | C11-C10-C9-C8 |
| 15 | aA | 849 | BCR | C20-C21-C22-C23 |
| 15 | aB | 942 | BCR | C11-C10-C9-C8 |
| 15 | aF | 203 | BCR | C11-C10-C9-C8 |
| 15 | aF | 203 | BCR | C20-C21-C22-C23 |
| 15 | aM | 101 | BCR | C11-C10-C9-C8 |
| 15 | aM | 101 | BCR | C16-C17-C18-C19 |
| 15 | bA | 846 | BCR | C11-C10-C9-C8 |
| 15 | bA | 848 | BCR | C20-C21-C22-C23 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | bB | 942 | BCR | C11-C10-C9-C8 |
| 15 | bF | 203 | BCR | C11-C10-C9-C8 |
| 15 | bF | 203 | BCR | C20-C21-C22-C23 |
| 15 | bM | 101 | BCR | C11-C10-C9-C8 |
| 15 | bM | 101 | BCR | C16-C17-C18-C19 |
| 15 | cA | 846 | BCR | C11-C10-C9-C8 |
| 15 | cA | 848 | BCR | C20-C21-C22-C23 |
| 15 | cB | 942 | BCR | C11-C10-C9-C8 |
| 15 | cF | 203 | BCR | C11-C10-C9-C8 |
| 15 | cF | 203 | BCR | C20-C21-C22-C23 |
| 15 | cM | 101 | BCR | C11-C10-C9-C8 |
| 15 | cM | 101 | BCR | C16-C17-C18-C19 |
| 12 | aA | 818 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 921 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 818 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 921 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 818 | CLA | O1D-CGD-O2D-CED |
| 12 | cB | 921 | CLA | O1D-CGD-O2D-CED |
| 16 | aA | 852 | LHG | C26-C27-C28-C29 |
| 16 | bA | 851 | LHG | C26-C27-C28-C29 |
| 16 | cA | 851 | LHG | C26-C27-C28-C29 |
| 12 | aA | 825 | CLA | C2-C3-C5-C6 |
| 12 | bA | 825 | CLA | C2-C3-C5-C6 |
| 12 | cA | 825 | CLA | C2-C3-C5-C6 |
| 12 | aB | 901 | CLA | C14-C13-C15-C16 |
| 12 | bB | 901 | CLA | C14-C13-C15-C16 |
| 12 | cB | 901 | CLA | C14-C13-C15-C16 |
| 15 | aB | 941 | BCR | C7-C8-C9-C34 |
| 15 | aL | 205 | BCR | C37-C22-C23-C24 |
| 15 | aM | 101 | BCR | C37-C22-C23-C24 |
| 15 | bB | 941 | BCR | C7-C8-C9-C34 |
| 15 | bL | 205 | BCR | C37-C22-C23-C24 |
| 15 | bM | 101 | BCR | C37-C22-C23-C24 |
| 15 | cB | 941 | BCR | C7-C8-C9-C34 |
| 15 | cL | 205 | BCR | C37-C22-C23-C24 |
| 15 | cM | 101 | BCR | C37-C22-C23-C24 |
| 16 | aA | 852 | LHG | O1-C1-C2-C3 |
| 16 | bA | 851 | LHG | O1-C1-C2-C3 |
| 16 | cA | 851 | LHG | O1-C1-C2-C3 |
| 15 | aA | 847 | BCR | C21-C22-C23-C24 |
| 15 | aB | 941 | BCR | C21-C22-C23-C24 |
| 15 | aJ | 101 | BCR | C21-C22-C23-C24 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | bA | 846 | BCR | C21-C22-C23-C24 |
| 15 | bB | 941 | BCR | C21-C22-C23-C24 |
| 15 | bJ | 101 | BCR | C21-C22-C23-C24 |
| 15 | cA | 846 | BCR | C21-C22-C23-C24 |
| 15 | cB | 941 | BCR | C21-C22-C23-C24 |
| 15 | cJ | 101 | BCR | C21-C22-C23-C24 |
| 12 | aA | 854 | CLA | C3-C5-C6-C7 |
| 12 | bA | 853 | CLA | C3-C5-C6-C7 |
| 12 | cA | 853 | CLA | C3-C5-C6-C7 |
| 12 | bA | 853 | CLA | CBD-CGD-O2D-CED |
| 17 | aB | 947 | LMG | C36-C37-C38-C39 |
| 17 | bB | 947 | LMG | C36-C37-C38-C39 |
| 17 | cB | 947 | LMG | C36-C37-C38-C39 |
| 12 | bB | 934 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 934 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 902 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 902 | CLA | O1D-CGD-O2D-CED |
| 12 | cB | 902 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 935 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 935 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 935 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 802 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 807 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 810 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 816 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 832 | CLA | C3A-C2A-CAA-CBA |
| 12 | aB | 914 | CLA | C3A-C2A-CAA-CBA |
| 12 | aB | 939 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 802 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 807 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 810 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 816 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 832 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 914 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 939 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 802 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 807 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 810 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 816 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 832 | CLA | C3A-C2A-CAA-CBA |
| 12 | cB | 914 | CLA | C3A-C2A-CAA-CBA |
| 12 | cB | 939 | CLA | C3A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 16 | aA | 852 | LHG | C10-C11-C12-C13 |
| 16 | bA | 851 | LHG | C10-C11-C12-C13 |
| 16 | cA | 851 | LHG | C10-C11-C12-C13 |
| 17 | aB | 947 | LMG | C35-C36-C37-C38 |
| 17 | bB | 947 | LMG | C35-C36-C37-C38 |
| 17 | cB | 947 | LMG | C35-C36-C37-C38 |
| 12 | aB | 908 | CLA | O2A-C1-C2-C3 |
| 12 | bB | 908 | CLA | O2A-C1-C2-C3 |
| 12 | cB | 908 | CLA | O2A-C1-C2-C3 |
| 16 | bB | 948 | LHG | C24-C23-O8-C6 |
| 16 | cB | 948 | LHG | C24-C23-O8-C6 |
| 12 | aB | 934 | CLA | CBD-CGD-O2D-CED |
| 15 | aA | 847 | BCR | C14-C15-C16-C17 |
| 15 | bA | 846 | BCR | C14-C15-C16-C17 |
| 15 | cA | 846 | BCR | C14-C15-C16-C17 |
| 12 | aB | 921 | CLA | C3-C5-C6-C7 |
| 12 | bB | 921 | CLA | C3-C5-C6-C7 |
| 12 | cB | 921 | CLA | C3-C5-C6-C7 |
| 12 | aB | 935 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 935 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 935 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 825 | CLA | C4-C3-C5-C6 |
| 12 | aB | 913 | CLA | C4-C3-C5-C6 |
| 12 | bA | 825 | CLA | C4-C3-C5-C6 |
| 12 | bB | 913 | CLA | C4-C3-C5-C6 |
| 12 | cA | 825 | CLA | C4-C3-C5-C6 |
| 12 | cB | 913 | CLA | C4-C3-C5-C6 |
| 16 | aB | 948 | LHG | C24-C23-O8-C6 |
| 12 | aB | 908 | CLA | O1D-CGD-O2D-CED |
| 12 | cB | 908 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 908 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 817 | CLA | C2-C1-O2A-CGA |
| 16 | bA | 851 | LHG | C27-C28-C29-C30 |
| 16 | cA | 851 | LHG | C27-C28-C29-C30 |
| 12 | aA | 806 | CLA | C8-C10-C11-C12 |
| 12 | bA | 806 | CLA | C8-C10-C11-C12 |
| 12 | cA | 806 | CLA | C8-C10-C11-C12 |
| 16 | aA | 852 | LHG | C27-C28-C29-C30 |
| 15 | aA | 847 | BCR | C5-C6-C7-C8 |
| 15 | aA | 848 | BCR | C5-C6-C7-C8 |
| 15 | aA | 849 | BCR | C23-C24-C25-C26 |
| 15 | aA | 849 | BCR | C23-C24-C25-C30 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | aA | 850 | BCR | C5-C6-C7-C8 |
| 15 | aB | 941 | BCR | C1-C6-C7-C8 |
| 15 | aB | 941 | BCR | C5-C6-C7-C8 |
| 15 | aB | 942 | BCR | C5-C6-C7-C8 |
| 15 | aB | 943 | BCR | C5-C6-C7-C8 |
| 15 | aB | 944 | BCR | C5-C6-C7-C8 |
| 15 | aB | 945 | BCR | C23-C24-C25-C26 |
| 15 | aB | 946 | BCR | C5-C6-C7-C8 |
| 15 | aF | 203 | BCR | C1-C6-C7-C8 |
| 15 | aF | 203 | BCR | C5-C6-C7-C8 |
| 15 | aF | 204 | BCR | C23-C24-C25-C26 |
| 15 | aI | 101 | BCR | C5-C6-C7-C8 |
| 15 | aJ | 101 | BCR | C1-C6-C7-C8 |
| 15 | aJ | 101 | BCR | C23-C24-C25-C26 |
| 15 | aJ | 101 | BCR | C23-C24-C25-C30 |
| 15 | aL | 201 | BCR | C23-C24-C25-C26 |
| 15 | aL | 205 | BCR | C5-C6-C7-C8 |
| 15 | aL | 206 | BCR | C5-C6-C7-C8 |
| 15 | aM | 101 | BCR | C1-C6-C7-C8 |
| 15 | aM | 101 | BCR | C5-C6-C7-C8 |
| 15 | aM | 101 | BCR | C23-C24-C25-C26 |
| 15 | aM | 101 | BCR | C23-C24-C25-C30 |
| 15 | bA | 846 | BCR | C5-C6-C7-C8 |
| 15 | bA | 847 | BCR | C5-C6-C7-C8 |
| 15 | bA | 848 | BCR | C23-C24-C25-C26 |
| 15 | bA | 848 | BCR | C23-C24-C25-C30 |
| 15 | bA | 849 | BCR | C5-C6-C7-C8 |
| 15 | bB | 941 | BCR | C1-C6-C7-C8 |
| 15 | bB | 941 | BCR | C5-C6-C7-C8 |
| 15 | bB | 942 | BCR | C5-C6-C7-C8 |
| 15 | bB | 943 | BCR | C5-C6-C7-C8 |
| 15 | bB | 944 | BCR | C5-C6-C7-C8 |
| 15 | bB | 945 | BCR | C23-C24-C25-C26 |
| 15 | bB | 946 | BCR | C5-C6-C7-C8 |
| 15 | bF | 203 | BCR | C1-C6-C7-C8 |
| 15 | bF | 203 | BCR | C5-C6-C7-C8 |
| 15 | bF | 204 | BCR | C23-C24-C25-C26 |
| 15 | bI | 101 | BCR | C5-C6-C7-C8 |
| 15 | bJ | 101 | BCR | C1-C6-C7-C8 |
| 15 | bJ | 101 | BCR | C23-C24-C25-C26 |
| 15 | bJ | 101 | BCR | C23-C24-C25-C30 |
| 15 | bL | 201 | BCR | C23-C24-C25-C26 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | bL | 205 | BCR | C5-C6-C7-C8 |
| 15 | bL | 206 | BCR | C5-C6-C7-C8 |
| 15 | bM | 101 | BCR | C1-C6-C7-C8 |
| 15 | bM | 101 | BCR | C5-C6-C7-C8 |
| 15 | bM | 101 | BCR | C23-C24-C25-C26 |
| 15 | bM | 101 | BCR | C23-C24-C25-C30 |
| 15 | cA | 846 | BCR | C5-C6-C7-C8 |
| 15 | cA | 847 | BCR | C5-C6-C7-C8 |
| 15 | cA | 848 | BCR | C23-C24-C25-C26 |
| 15 | cA | 848 | BCR | C23-C24-C25-C30 |
| 15 | cA | 849 | BCR | C5-C6-C7-C8 |
| 15 | cB | 941 | BCR | C1-C6-C7-C8 |
| 15 | cB | 941 | BCR | C5-C6-C7-C8 |
| 15 | cB | 942 | BCR | C5-C6-C7-C8 |
| 15 | cB | 943 | BCR | C5-C6-C7-C8 |
| 15 | cB | 944 | BCR | C5-C6-C7-C8 |
| 15 | cB | 945 | BCR | C23-C24-C25-C26 |
| 15 | cB | 946 | BCR | C5-C6-C7-C8 |
| 15 | cF | 203 | BCR | C1-C6-C7-C8 |
| 15 | cF | 203 | BCR | C5-C6-C7-C8 |
| 15 | cF | 204 | BCR | C23-C24-C25-C26 |
| 15 | cI | 101 | BCR | C5-C6-C7-C8 |
| 15 | cJ | 101 | BCR | C1-C6-C7-C8 |
| 15 | cJ | 101 | BCR | C23-C24-C25-C26 |
| 15 | cJ | 101 | BCR | C23-C24-C25-C30 |
| 15 | cL | 201 | BCR | C23-C24-C25-C26 |
| 15 | cL | 205 | BCR | C5-C6-C7-C8 |
| 15 | cL | 206 | BCR | C5-C6-C7-C8 |
| 15 | cM | 101 | BCR | C1-C6-C7-C8 |
| 15 | cM | 101 | BCR | C5-C6-C7-C8 |
| 15 | cM | 101 | BCR | C23-C24-C25-C26 |
| 15 | cM | 101 | BCR | C23-C24-C25-C30 |
| 16 | aA | 852 | LHG | C8-C7-O7-C5 |
| 16 | bA | 851 | LHG | C8-C7-O7-C5 |
| 16 | cA | 851 | LHG | C8-C7-O7-C5 |
| 17 | aB | 947 | LMG | C29-C30-C31-C32 |
| 17 | cB | 947 | LMG | C29-C30-C31-C32 |
| 12 | aB | 931 | CLA | C4-C3-C5-C6 |
| 12 | bB | 931 | CLA | C4-C3-C5-C6 |
| 12 | cB | 931 | CLA | C4-C3-C5-C6 |
| 12 | cB | 922 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 806 | CLA | C2-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 842 | CLA | C11-C12-C13-C15 |
| 12 | aB | 901 | CLA | C12-C13-C15-C16 |
| 12 | aB | 912 | CLA | C6-C7-C8-C10 |
| 12 | aB | 913 | CLA | C2-C3-C5-C6 |
| 12 | aB | 926 | CLA | C11-C12-C13-C15 |
| 12 | aB | 931 | CLA | C2-C3-C5-C6 |
| 12 | bA | 806 | CLA | C2-C3-C5-C6 |
| 12 | bA | 842 | CLA | C11-C12-C13-C15 |
| 12 | bB | 901 | CLA | C12-C13-C15-C16 |
| 12 | bB | 912 | CLA | C6-C7-C8-C10 |
| 12 | bB | 913 | CLA | C2-C3-C5-C6 |
| 12 | bB | 926 | CLA | C11-C12-C13-C15 |
| 12 | bB | 931 | CLA | C2-C3-C5-C6 |
| 12 | cA | 806 | CLA | C2-C3-C5-C6 |
| 12 | cA | 842 | CLA | C11-C12-C13-C15 |
| 12 | cB | 901 | CLA | C12-C13-C15-C16 |
| 12 | cB | 912 | CLA | C6-C7-C8-C10 |
| 12 | cB | 913 | CLA | C2-C3-C5-C6 |
| 12 | cB | 926 | CLA | C11-C12-C13-C15 |
| 12 | cB | 931 | CLA | C2-C3-C5-C6 |
| 17 | bB | 947 | LMG | C29-C30-C31-C32 |
| 15 | aF | 203 | BCR | C19-C20-C21-C22 |
| 15 | bF | 203 | BCR | C19-C20-C21-C22 |
| 15 | cF | 203 | BCR | C19-C20-C21-C22 |
| 12 | aA | 830 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 830 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 830 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 825 | CLA | C16-C17-C18-C19 |
| 12 | aB | 904 | CLA | C16-C17-C18-C20 |
| 12 | bB | 904 | CLA | C16-C17-C18-C20 |
| 12 | cB | 904 | CLA | C16-C17-C18-C20 |
| 12 | aA | 808 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 922 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 808 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 922 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 808 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 802 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 802 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 802 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 829 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 829 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 829 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | aM | 101 | BCR | C22-C23-C24-C25 |
| 15 | bM | 101 | BCR | C22-C23-C24-C25 |
| 15 | cM | 101 | BCR | C22-C23-C24-C25 |
| 12 | aA | 830 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 830 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 830 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 825 | CLA | C16-C17-C18-C19 |
| 12 | cA | 825 | CLA | C16-C17-C18-C19 |
| 16 | bA | 851 | LHG | C14-C15-C16-C17 |
| 15 | aJ | 101 | BCR | C14-C15-C16-C17 |
| 15 | bJ | 101 | BCR | C14-C15-C16-C17 |
| 15 | cJ | 101 | BCR | C14-C15-C16-C17 |
| 12 | aF | 202 | CLA | CBD-CGD-O2D-CED |
| 12 | bF | 202 | CLA | CBD-CGD-O2D-CED |
| 12 | cF | 202 | CLA | CBD-CGD-O2D-CED |
| 16 | aA | 852 | LHG | C14-C15-C16-C17 |
| 16 | cA | 851 | LHG | C14-C15-C16-C17 |
| 16 | aA | 852 | LHG | O9-C7-O7-C5 |
| 16 | bA | 851 | LHG | O9-C7-O7-C5 |
| 16 | cA | 851 | LHG | O9-C7-O7-C5 |
| 16 | bB | 948 | LHG | O7-C5-C6-O8 |
| 16 | cB | 948 | LHG | O7-C5-C6-O8 |
| 12 | aB | 902 | CLA | C6-C7-C8-C9 |
| 12 | aB | 931 | CLA | C6-C7-C8-C9 |
| 12 | bB | 902 | CLA | C6-C7-C8-C9 |
| 12 | bB | 931 | CLA | C6-C7-C8-C9 |
| 12 | cB | 902 | CLA | C6-C7-C8-C9 |
| 12 | cB | 931 | CLA | C6-C7-C8-C9 |
| 12 | aA | 811 | CLA | CBD-CGD-O2D-CED |
| 12 | bA | 811 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 811 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 824 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 824 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 824 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 810 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 811 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 812 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 816 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 818 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 821 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 824 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 834 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aB | 910 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 913 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 914 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 918 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 922 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 930 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 931 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 933 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 934 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 939 | CLA | C1A-C2A-CAA-CBA |
| 12 | aL | 202 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 810 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 811 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 812 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 816 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 818 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 821 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 824 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 834 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 910 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 913 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 914 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 918 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 922 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 930 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 931 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 933 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 934 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 939 | CLA | C1A-C2A-CAA-CBA |
| 12 | bL | 202 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 810 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 811 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 812 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 816 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 818 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 821 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 824 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 834 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 910 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 913 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 914 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 918 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cB | 922 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 930 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 931 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 933 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 934 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 939 | CLA | C1A-C2A-CAA-CBA |
| 12 | cL | 202 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 902 | CLA | C3-C5-C6-C7 |
| 12 | aB | 925 | CLA | C3-C5-C6-C7 |
| 12 | bB | 902 | CLA | C3-C5-C6-C7 |
| 12 | bB | 925 | CLA | C3-C5-C6-C7 |
| 12 | cB | 902 | CLA | C3-C5-C6-C7 |
| 12 | cB | 925 | CLA | C3-C5-C6-C7 |
| 12 | bB | 920 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 920 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 806 | CLA | C4-C3-C5-C6 |
| 12 | bA | 806 | CLA | C4-C3-C5-C6 |
| 12 | cA | 806 | CLA | C4-C3-C5-C6 |
| 16 | aA | 852 | LHG | C4-C5-C6-O8 |
| 16 | aB | 948 | LHG | C4-C5-C6-O8 |
| 16 | bA | 851 | LHG | C4-C5-C6-O8 |
| 16 | bB | 948 | LHG | C4-C5-C6-O8 |
| 16 | cA | 851 | LHG | C4-C5-C6-O8 |
| 16 | cB | 948 | LHG | C4-C5-C6-O8 |
| 12 | aB | 920 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 916 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 916 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 916 | CLA | O1D-CGD-O2D-CED |
| 15 | aB | 942 | BCR | C35-C13-C14-C15 |
| 15 | bB | 942 | BCR | C35-C13-C14-C15 |
| 15 | cB | 942 | BCR | C35-C13-C14-C15 |
| 12 | aB | 904 | CLA | C4-C3-C5-C6 |
| 12 | aB | 923 | CLA | C4-C3-C5-C6 |
| 12 | bB | 904 | CLA | C4-C3-C5-C6 |
| 12 | bB | 923 | CLA | C4-C3-C5-C6 |
| 12 | cB | 904 | CLA | C4-C3-C5-C6 |
| 12 | cB | 923 | CLA | C4-C3-C5-C6 |
| 12 | aB | 927 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 927 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 927 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 916 | CLA | C11-C12-C13-C14 |
| 12 | aA | 834 | CLA | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 840 | CLA | C5-C6-C7-C8 |
| 12 | bA | 834 | CLA | C5-C6-C7-C8 |
| 12 | bA | 840 | CLA | C5-C6-C7-C8 |
| 12 | cA | 834 | CLA | C5-C6-C7-C8 |
| 12 | cA | 840 | CLA | C5-C6-C7-C8 |
| 12 | bB | 916 | CLA | C11-C12-C13-C14 |
| 12 | cB | 916 | CLA | C11-C12-C13-C14 |
| 12 | aA | 817 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 817 | CLA | C2-C1-O2A-CGA |
| 17 | bB | 947 | LMG | C31-C32-C33-C34 |
| 12 | aA | 842 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 842 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 842 | CLA | CBA-CGA-O2A-C1 |
| 17 | aB | 947 | LMG | C31-C32-C33-C34 |
| 17 | cB | 947 | LMG | C31-C32-C33-C34 |
| 12 | aA | 830 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 830 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 830 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 923 | CLA | C6-C7-C8-C9 |
| 12 | bB | 923 | CLA | C6-C7-C8-C9 |
| 12 | cB | 923 | CLA | C6-C7-C8-C9 |
| 15 | aL | 201 | BCR | C11-C10-C9-C8 |
| 15 | bL | 201 | BCR | C11-C10-C9-C8 |
| 15 | cL | 201 | BCR | C11-C10-C9-C8 |
| 16 | aB | 948 | LHG | O7-C5-C6-O8 |
| 12 | aA | 807 | CLA | C4-C3-C5-C6 |
| 12 | bA | 807 | CLA | C4-C3-C5-C6 |
| 12 | cA | 807 | CLA | C4-C3-C5-C6 |
| 12 | aA | 825 | CLA | C12-C13-C15-C16 |
| 12 | aA | 838 | CLA | C11-C10-C8-C7 |
| 12 | aA | 843 | CLA | C11-C12-C13-C15 |
| 12 | aB | 902 | CLA | C6-C7-C8-C10 |
| 12 | aB | 904 | CLA | C12-C13-C15-C16 |
| 12 | aB | 923 | CLA | C2-C3-C5-C6 |
| 12 | bA | 825 | CLA | C12-C13-C15-C16 |
| 12 | bA | 838 | CLA | C11-C10-C8-C7 |
| 12 | bA | 843 | CLA | C11-C12-C13-C15 |
| 12 | bB | 902 | CLA | C6-C7-C8-C10 |
| 12 | bB | 904 | CLA | C12-C13-C15-C16 |
| 12 | bB | 923 | CLA | C2-C3-C5-C6 |
| 12 | cA | 825 | CLA | C12-C13-C15-C16 |
| 12 | cA | 838 | CLA | C11-C10-C8-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 843 | CLA | C11-C12-C13-C15 |
| 12 | cB | 902 | CLA | C6-C7-C8-C10 |
| 12 | cB | 904 | CLA | C12-C13-C15-C16 |
| 12 | cB | 923 | CLA | C2-C3-C5-C6 |
| 12 | aA | 838 | CLA | C11-C10-C8-C9 |
| 12 | aB | 904 | CLA | C14-C13-C15-C16 |
| 12 | aB | 905 | CLA | C6-C7-C8-C9 |
| 12 | aB | 926 | CLA | C11-C10-C8-C9 |
| 12 | aB | 926 | CLA | C14-C13-C15-C16 |
| 12 | aB | 936 | CLA | C6-C7-C8-C9 |
| 12 | bA | 838 | CLA | C11-C10-C8-C9 |
| 12 | bB | 904 | CLA | C14-C13-C15-C16 |
| 12 | bB | 905 | CLA | C6-C7-C8-C9 |
| 12 | bB | 926 | CLA | C11-C10-C8-C9 |
| 12 | bB | 926 | CLA | C14-C13-C15-C16 |
| 12 | bB | 936 | CLA | C6-C7-C8-C9 |
| 12 | cA | 838 | CLA | C11-C10-C8-C9 |
| 12 | cB | 904 | CLA | C14-C13-C15-C16 |
| 12 | cB | 905 | CLA | C6-C7-C8-C9 |
| 12 | cB | 926 | CLA | C11-C10-C8-C9 |
| 12 | cB | 926 | CLA | C14-C13-C15-C16 |
| 12 | cB | 936 | CLA | C6-C7-C8-C9 |
| 15 | aM | 101 | BCR | C19-C20-C21-C22 |
| 15 | bM | 101 | BCR | C19-C20-C21-C22 |
| 15 | cM | 101 | BCR | C19-C20-C21-C22 |
| 12 | aB | 907 | CLA | CBD-CGD-O2D-CED |
| 12 | bB | 907 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 907 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 936 | CLA | C11-C12-C13-C14 |
| 16 | aA | 852 | LHG | C29-C30-C31-C32 |
| 16 | bA | 851 | LHG | C29-C30-C31-C32 |
| 12 | aA | 808 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 909 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 808 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 909 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 808 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 909 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 854 | CLA | C5-C6-C7-C8 |
| 12 | bA | 853 | CLA | C5-C6-C7-C8 |
| 12 | cA | 853 | CLA | C5-C6-C7-C8 |
| 12 | aB | 936 | CLA | C11-C12-C13-C14 |
| 12 | bB | 936 | CLA | C11-C12-C13-C14 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 16 | cA | 851 | LHG | C29-C30-C31-C32 |
| 12 | bA | 839 | CLA | CBD-CGD-O2D-CED |
| 15 | aF | 203 | BCR | C21-C22-C23-C24 |
| 15 | aM | 101 | BCR | C7-C8-C9-C10 |
| 15 | bF | 203 | BCR | C21-C22-C23-C24 |
| 15 | bM | 101 | BCR | C7-C8-C9-C10 |
| 15 | cF | 203 | BCR | C21-C22-C23-C24 |
| 15 | cM | 101 | BCR | C7-C8-C9-C10 |
| 12 | aA | 826 | CLA | C3-C5-C6-C7 |
| 12 | bA | 826 | CLA | C3-C5-C6-C7 |
| 12 | cA | 826 | CLA | C3-C5-C6-C7 |
| 12 | aA | 817 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 912 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 817 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 817 | CLA | CBA-CGA-O2A-C1 |
| 15 | aB | 941 | BCR | C22-C23-C24-C25 |
| 15 | aB | 945 | BCR | C6-C7-C8-C9 |
| 15 | bB | 941 | BCR | C22-C23-C24-C25 |
| 15 | bB | 945 | BCR | C6-C7-C8-C9 |
| 15 | cB | 941 | BCR | C22-C23-C24-C25 |
| 15 | cB | 945 | BCR | C6-C7-C8-C9 |
| 12 | aA | 839 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 839 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 805 | CLA | C3-C5-C6-C7 |
| 12 | aA | 817 | CLA | C3-C5-C6-C7 |
| 12 | bA | 805 | CLA | C3-C5-C6-C7 |
| 12 | bA | 817 | CLA | C3-C5-C6-C7 |
| 12 | cA | 805 | CLA | C3-C5-C6-C7 |
| 12 | cA | 817 | CLA | C3-C5-C6-C7 |
| 12 | bB | 912 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 912 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 842 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 842 | CLA | C4-C3-C5-C6 |
| 12 | aB | 927 | CLA | C4-C3-C5-C6 |
| 12 | bA | 842 | CLA | C4-C3-C5-C6 |
| 12 | bB | 927 | CLA | C4-C3-C5-C6 |
| 12 | cA | 842 | CLA | C4-C3-C5-C6 |
| 12 | cB | 927 | CLA | C4-C3-C5-C6 |
| 12 | aA | 807 | CLA | C2-C3-C5-C6 |
| 12 | aB | 904 | CLA | C2-C3-C5-C6 |
| 12 | bA | 807 | CLA | C2-C3-C5-C6 |
| 12 | bB | 904 | CLA | C2-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 807 | CLA | C2-C3-C5-C6 |
| 12 | cB | 904 | CLA | C2-C3-C5-C6 |
| 12 | bA | 842 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 842 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 926 | CLA | C3A-C2A-CAA-CBA |
| 12 | aL | 203 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 926 | CLA | C3A-C2A-CAA-CBA |
| 12 | bL | 203 | CLA | C3A-C2A-CAA-CBA |
| 12 | cB | 926 | CLA | C3A-C2A-CAA-CBA |
| 12 | cL | 203 | CLA | C3A-C2A-CAA-CBA |
| 17 | bB | 947 | LMG | C34-C35-C36-C37 |
| 17 | aB | 947 | LMG | C34-C35-C36-C37 |
| 17 | aB | 947 | LMG | C38-C39-C40-C41 |
| 17 | bB | 947 | LMG | C38-C39-C40-C41 |
| 17 | cB | 947 | LMG | C34-C35-C36-C37 |
| 17 | cB | 947 | LMG | C38-C39-C40-C41 |
| 12 | aA | 806 | CLA | C16-C17-C18-C20 |
| 12 | bA | 806 | CLA | C16-C17-C18-C20 |
| 12 | cA | 806 | CLA | C16-C17-C18-C20 |
| 12 | aB | 927 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 927 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 927 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 808 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 909 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 808 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 909 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 808 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 909 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 927 | CLA | C2-C3-C5-C6 |
| 12 | bB | 927 | CLA | C2-C3-C5-C6 |
| 12 | cB | 927 | CLA | C2-C3-C5-C6 |
| 12 | bA | 806 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 949 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 806 | CLA | O1D-CGD-O2D-CED |
| 16 | bA | 852 | LHG | C9-C10-C11-C12 |
| 16 | cA | 852 | LHG | C9-C10-C11-C12 |
| 16 | aA | 853 | LHG | C9-C10-C11-C12 |
| 12 | aA | 806 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 949 | CLA | O1D-CGD-O2D-CED |
| 12 | cB | 949 | CLA | O1D-CGD-O2D-CED |
| 16 | aA | 852 | LHG | O1-C1-C2-O2 |
| 16 | bA | 851 | LHG | O1-C1-C2-O2 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 16 | cA | 851 | LHG | O1-C1-C2-O2 |
| 16 | aA | 853 | LHG | C7-C8-C9-C10 |
| 16 | bA | 852 | LHG | C7-C8-C9-C10 |
| 16 | cA | 852 | LHG | C7-C8-C9-C10 |
| 11 | aA | 801 | CL0 | C16-C17-C18-C20 |
| 12 | bA | 812 | CLA | C10-C11-C12-C13 |
| 12 | cA | 812 | CLA | C10-C11-C12-C13 |
| 11 | bA | 801 | CL0 | C16-C17-C18-C20 |
| 11 | cA | 801 | CL0 | C16-C17-C18-C20 |
| 12 | aA | 812 | CLA | C10-C11-C12-C13 |
| 12 | aA | 812 | CLA | C2-C1-O2A-CGA |
| 12 | aB | 909 | CLA | C2-C1-O2A-CGA |
| 12 | aB | 925 | CLA | C2-C1-O2A-CGA |
| 12 | aB | 928 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 812 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 909 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 925 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 928 | CLA | C2-C1-O2A-CGA |
| 12 | cA | 812 | CLA | C2-C1-O2A-CGA |
| 12 | cB | 909 | CLA | C2-C1-O2A-CGA |
| 12 | cB | 925 | CLA | C2-C1-O2A-CGA |
| 12 | cB | 928 | CLA | C2-C1-O2A-CGA |
| 12 | aA | 842 | CLA | C2-C3-C5-C6 |
| 12 | bA | 842 | CLA | C2-C3-C5-C6 |
| 12 | cA | 842 | CLA | C2-C3-C5-C6 |
| 12 | aA | 825 | CLA | C14-C13-C15-C16 |
| 12 | aA | 840 | CLA | C11-C10-C8-C9 |
| 12 | aA | 843 | CLA | C11-C12-C13-C14 |
| 12 | bA | 825 | CLA | C14-C13-C15-C16 |
| 12 | bA | 840 | CLA | C11-C10-C8-C9 |
| 12 | bA | 843 | CLA | C11-C12-C13-C14 |
| 12 | cA | 825 | CLA | C14-C13-C15-C16 |
| 12 | cA | 840 | CLA | C11-C10-C8-C9 |
| 12 | cA | 843 | CLA | C11-C12-C13-C14 |
| 12 | aA | 821 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 821 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 808 | CLA | C4-C3-C5-C6 |
| 12 | bA | 808 | CLA | C4-C3-C5-C6 |
| 12 | cA | 808 | CLA | C4-C3-C5-C6 |
| 12 | aB | 915 | CLA | C2C-C3C-CAC-CBC |
| 12 | cB | 927 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 824 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 825 | CLA | C16-C17-C18-C20 |
| 12 | bA | 825 | CLA | C16-C17-C18-C20 |
| 12 | cA | 825 | CLA | C16-C17-C18-C20 |
| 12 | bA | 821 | CLA | CBD-CGD-O2D-CED |
| 15 | aA | 848 | BCR | C1-C6-C7-C8 |
| 15 | aA | 849 | BCR | C5-C6-C7-C8 |
| 15 | aA | 850 | BCR | C23-C24-C25-C26 |
| 15 | aA | 850 | BCR | C23-C24-C25-C30 |
| 15 | aB | 941 | BCR | C23-C24-C25-C26 |
| 15 | aB | 943 | BCR | C1-C6-C7-C8 |
| 15 | aB | 944 | BCR | C23-C24-C25-C26 |
| 15 | aB | 945 | BCR | C5-C6-C7-C8 |
| 15 | aF | 201 | BCR | C5-C6-C7-C8 |
| 15 | aI | 101 | BCR | C1-C6-C7-C8 |
| 15 | aL | 205 | BCR | C1-C6-C7-C8 |
| 15 | aL | 206 | BCR | C23-C24-C25-C26 |
| 15 | aL | 206 | BCR | C23-C24-C25-C30 |
| 15 | bA | 847 | BCR | C1-C6-C7-C8 |
| 15 | bA | 848 | BCR | C5-C6-C7-C8 |
| 15 | bA | 849 | BCR | C23-C24-C25-C26 |
| 15 | bA | 849 | BCR | C23-C24-C25-C30 |
| 15 | bB | 941 | BCR | C23-C24-C25-C26 |
| 15 | bB | 943 | BCR | C1-C6-C7-C8 |
| 15 | bB | 944 | BCR | C23-C24-C25-C26 |
| 15 | bB | 945 | BCR | C5-C6-C7-C8 |
| 15 | bF | 201 | BCR | C5-C6-C7-C8 |
| 15 | bI | 101 | BCR | C1-C6-C7-C8 |
| 15 | bL | 205 | BCR | C1-C6-C7-C8 |
| 15 | bL | 206 | BCR | C23-C24-C25-C26 |
| 15 | bL | 206 | BCR | C23-C24-C25-C30 |
| 15 | cA | 847 | BCR | C1-C6-C7-C8 |
| 15 | cA | 848 | BCR | C5-C6-C7-C8 |
| 15 | cA | 849 | BCR | C23-C24-C25-C26 |
| 15 | cA | 849 | BCR | C23-C24-C25-C30 |
| 15 | cB | 941 | BCR | C23-C24-C25-C26 |
| 15 | cB | 943 | BCR | C1-C6-C7-C8 |
| 15 | cB | 944 | BCR | C23-C24-C25-C26 |
| 15 | cB | 945 | BCR | C5-C6-C7-C8 |
| 15 | cF | 201 | BCR | C5-C6-C7-C8 |
| 15 | cI | 101 | BCR | C1-C6-C7-C8 |
| 15 | cL | 205 | BCR | C1-C6-C7-C8 |
| 15 | cL | 206 | BCR | C23-C24-C25-C26 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | cL | 206 | BCR | C23-C24-C25-C30 |
| 12 | bA | 824 | CLA | O1D-CGD-O2D-CED |
| 15 | aA | 849 | BCR | C21-C22-C23-C24 |
| 15 | aB | 944 | BCR | C7-C8-C9-C10 |
| 15 | aI | 101 | BCR | C7-C8-C9-C10 |
| 15 | aL | 201 | BCR | C7-C8-C9-C10 |
| 15 | bA | 848 | BCR | C21-C22-C23-C24 |
| 15 | bB | 944 | BCR | C7-C8-C9-C10 |
| 15 | bI | 101 | BCR | C7-C8-C9-C10 |
| 15 | bL | 201 | BCR | C7-C8-C9-C10 |
| 15 | cA | 848 | BCR | C21-C22-C23-C24 |
| 15 | cB | 944 | BCR | C7-C8-C9-C10 |
| 15 | cI | 101 | BCR | C7-C8-C9-C10 |
| 15 | cL | 201 | BCR | C7-C8-C9-C10 |
| 11 | aA | 801 | CL0 | C15-C16-C17-C18 |
| 11 | bA | 801 | CL0 | C15-C16-C17-C18 |
| 11 | cA | 801 | CL0 | C15-C16-C17-C18 |
| 12 | cA | 824 | CLA | O1D-CGD-O2D-CED |
| 15 | aB | 942 | BCR | C14-C15-C16-C17 |
| 15 | bB | 942 | BCR | C14-C15-C16-C17 |
| 15 | cB | 942 | BCR | C14-C15-C16-C17 |
| 12 | bB | 915 | CLA | C2C-C3C-CAC-CBC |
| 12 | cB | 915 | CLA | C2C-C3C-CAC-CBC |
| 12 | aA | 807 | CLA | C15-C16-C17-C18 |
| 12 | bA | 807 | CLA | C15-C16-C17-C18 |
| 12 | cA | 807 | CLA | C15-C16-C17-C18 |
| 12 | aA | 817 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 817 | CLA | O1A-CGA-O2A-C1 |
| 16 | cA | 851 | LHG | C30-C31-C32-C33 |
| 16 | aA | 852 | LHG | C30-C31-C32-C33 |
| 16 | bA | 851 | LHG | C30-C31-C32-C33 |
| 12 | aA | 834 | CLA | C12-C13-C15-C16 |
| 12 | aA | 838 | CLA | C11-C12-C13-C15 |
| 12 | aA | 840 | CLA | C11-C10-C8-C7 |
| 12 | aB | 905 | CLA | C6-C7-C8-C10 |
| 12 | aB | 926 | CLA | C11-C10-C8-C7 |
| 12 | aB | 926 | CLA | C12-C13-C15-C16 |
| 12 | aB | 936 | CLA | C6-C7-C8-C10 |
| 12 | bA | 834 | CLA | C12-C13-C15-C16 |
| 12 | bA | 838 | CLA | C11-C12-C13-C15 |
| 12 | bA | 840 | CLA | C11-C10-C8-C7 |
| 12 | bB | 905 | CLA | C6-C7-C8-C10 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 926 | CLA | C11-C10-C8-C7 |
| 12 | bB | 926 | CLA | C12-C13-C15-C16 |
| 12 | bB | 936 | CLA | C6-C7-C8-C10 |
| 12 | cA | 834 | CLA | C12-C13-C15-C16 |
| 12 | cA | 838 | CLA | C11-C12-C13-C15 |
| 12 | cA | 840 | CLA | C11-C10-C8-C7 |
| 12 | cB | 905 | CLA | C6-C7-C8-C10 |
| 12 | cB | 926 | CLA | C11-C10-C8-C7 |
| 12 | cB | 926 | CLA | C12-C13-C15-C16 |
| 12 | cB | 936 | CLA | C6-C7-C8-C10 |
| 12 | cA | 817 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 836 | CLA | C2A-CAA-CBA-CGA |
| 12 | aB | 927 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 836 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 927 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 836 | CLA | C2A-CAA-CBA-CGA |
| 15 | aA | 851 | BCR | C20-C21-C22-C37 |
| 15 | aB | 941 | BCR | C20-C21-C22-C37 |
| 15 | aB | 943 | BCR | C20-C21-C22-C37 |
| 15 | aB | 945 | BCR | C35-C13-C14-C15 |
| 15 | aF | 204 | BCR | C11-C10-C9-C34 |
| 15 | bA | 850 | BCR | C20-C21-C22-C37 |
| 15 | bB | 941 | BCR | C20-C21-C22-C37 |
| 15 | bB | 943 | BCR | C20-C21-C22-C37 |
| 15 | bB | 945 | BCR | C35-C13-C14-C15 |
| 15 | bF | 204 | BCR | C11-C10-C9-C34 |
| 15 | cA | 850 | BCR | C20-C21-C22-C37 |
| 15 | cB | 941 | BCR | C20-C21-C22-C37 |
| 15 | cB | 943 | BCR | C20-C21-C22-C37 |
| 15 | cB | 945 | BCR | C35-C13-C14-C15 |
| 15 | cF | 204 | BCR | C11-C10-C9-C34 |
| 12 | aA | 819 | CLA | C5-C6-C7-C8 |
| 12 | bA | 819 | CLA | C5-C6-C7-C8 |
| 12 | cA | 819 | CLA | C5-C6-C7-C8 |
| 12 | aA | 826 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 841 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 826 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 841 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 841 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 934 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 804 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 805 | CLA | CAD-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 810 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 812 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 815 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 816 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 820 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 833 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 909 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 910 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 917 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 919 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 928 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 939 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 804 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 805 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 810 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 812 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 815 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 816 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 820 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 833 | CLA | CAD-CBD-CGD-O2D |
| 12 | bB | 909 | CLA | CAD-CBD-CGD-O2D |
| 12 | bB | 910 | CLA | CAD-CBD-CGD-O2D |
| 12 | bB | 917 | CLA | CAD-CBD-CGD-O2D |
| 12 | bB | 919 | CLA | CAD-CBD-CGD-O2D |
| 12 | bB | 928 | CLA | CAD-CBD-CGD-O2D |
| 12 | bB | 939 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 804 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 805 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 810 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 812 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 815 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 816 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 820 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 833 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 909 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 910 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 917 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 919 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 928 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 939 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 818 | CLA | C6-C7-C8-C9 |
| 12 | aA | 804 | CLA | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bA | 804 | CLA | C5-C6-C7-C8 |
| 12 | bA | 842 | CLA | C10-C11-C12-C13 |
| 12 | cA | 804 | CLA | C5-C6-C7-C8 |
| 12 | aB | 934 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 818 | CLA | C6-C7-C8-C9 |
| 15 | aB | 946 | BCR | C6-C7-C8-C9 |
| 15 | bB | 946 | BCR | C6-C7-C8-C9 |
| 15 | cB | 946 | BCR | C6-C7-C8-C9 |
| 12 | cA | 826 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 830 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 830 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 842 | CLA | C10-C11-C12-C13 |
| 12 | cA | 842 | CLA | C10-C11-C12-C13 |
| 12 | bB | 934 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 818 | CLA | C6-C7-C8-C9 |
| 12 | cB | 904 | CLA | C13-C15-C16-C17 |
| 12 | cA | 830 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 916 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 916 | CLA | C2A-CAA-CBA-CGA |
| 12 | cB | 916 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 904 | CLA | C13-C15-C16-C17 |
| 12 | aF | 202 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 926 | CLA | O1D-CGD-O2D-CED |
| 12 | cF | 202 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 809 | CLA | CHA-CBD-CGD-O1D |
| 12 | aA | 820 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 903 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 903 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 914 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 914 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 922 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 924 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 935 | CLA | CHA-CBD-CGD-O1D |
| 12 | aF | 202 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 809 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 820 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 903 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 903 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 914 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 914 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 922 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 924 | CLA | CHA-CBD-CGD-O1D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 935 | CLA | CHA-CBD-CGD-O1D |
| 12 | bF | 202 | CLA | CHA-CBD-CGD-O1D |
| 12 | cA | 809 | CLA | CHA-CBD-CGD-O1D |
| 12 | cA | 820 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 903 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 903 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 914 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 914 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 922 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 924 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 935 | CLA | CHA-CBD-CGD-O1D |
| 12 | cF | 202 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 905 | CLA | C3-C5-C6-C7 |
| 12 | cA | 828 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 843 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 912 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 843 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 912 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 926 | CLA | O1D-CGD-O2D-CED |
| 12 | cB | 926 | CLA | O1D-CGD-O2D-CED |
| 15 | aF | 204 | BCR | C11-C10-C9-C8 |
| 15 | aJ | 101 | BCR | C20-C21-C22-C23 |
| 15 | aL | 205 | BCR | C20-C21-C22-C23 |
| 15 | bF | 204 | BCR | C11-C10-C9-C8 |
| 15 | bJ | 101 | BCR | C20-C21-C22-C23 |
| 15 | bL | 205 | BCR | C20-C21-C22-C23 |
| 15 | cF | 204 | BCR | C11-C10-C9-C8 |
| 15 | cJ | 101 | BCR | C20-C21-C22-C23 |
| 15 | cL | 205 | BCR | C20-C21-C22-C23 |
| 12 | aB | 904 | CLA | C13-C15-C16-C17 |
| 17 | aB | 947 | LMG | O7-C8-C9-O8 |
| 17 | bB | 947 | LMG | O7-C8-C9-O8 |
| 17 | cB | 947 | LMG | O7-C8-C9-O8 |
| 16 | aA | 853 | LHG | C24-C23-O8-C6 |
| 16 | bA | 852 | LHG | C24-C23-O8-C6 |
| 16 | cA | 852 | LHG | C24-C23-O8-C6 |
| 12 | bF | 202 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 841 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 841 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 843 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 912 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 806 | CLA | C16-C17-C18-C19 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bA | 806 | CLA | C16-C17-C18-C19 |
| 12 | cA | 806 | CLA | C16-C17-C18-C19 |
| 12 | aB | 905 | CLA | C3-C5-C6-C7 |
| 12 | cB | 905 | CLA | C3-C5-C6-C7 |
| 12 | aA | 812 | CLA | C4-C3-C5-C6 |
| 12 | bA | 812 | CLA | C4-C3-C5-C6 |
| 12 | cA | 812 | CLA | C4-C3-C5-C6 |
| 12 | aA | 827 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 827 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 827 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 834 | CLA | C14-C13-C15-C16 |
| 12 | bA | 834 | CLA | C14-C13-C15-C16 |
| 12 | cA | 834 | CLA | C14-C13-C15-C16 |
| 12 | aA | 828 | CLA | CBD-CGD-O2D-CED |
| 12 | cA | 826 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 841 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 828 | CLA | CBD-CGD-O2D-CED |
| 16 | bA | 851 | LHG | C32-C33-C34-C35 |
| 16 | cA | 851 | LHG | C32-C33-C34-C35 |
| 12 | aA | 826 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 826 | CLA | O1A-CGA-O2A-C1 |
| 15 | aF | 203 | BCR | C37-C22-C23-C24 |
| 15 | bF | 203 | BCR | C37-C22-C23-C24 |
| 15 | cF | 203 | BCR | C37-C22-C23-C24 |
| 12 | cB | 915 | CLA | C4C-C3C-CAC-CBC |
| 16 | aA | 852 | LHG | C32-C33-C34-C35 |
| 12 | aA | 809 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 817 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 839 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 809 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 817 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 839 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 809 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 817 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 839 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 915 | CLA | C4C-C3C-CAC-CBC |
| 12 | bB | 915 | CLA | C4C-C3C-CAC-CBC |
| 12 | aA | 820 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 820 | CLA | C2-C1-O2A-CGA |
| 12 | cA | 820 | CLA | C2-C1-O2A-CGA |
| 12 | aB | 901 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 901 | CLA | O1D-CGD-O2D-CED |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 926 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 901 | CLA | O1D-CGD-O2D-CED |
| 16 | aA | 853 | LHG | C4-O6-P-O4 |
| 16 | aB | 948 | LHG | C3-O3-P-O5 |
| 16 | bA | 852 | LHG | C3-O3-P-O5 |
| 16 | bA | 852 | LHG | C4-O6-P-O4 |
| 16 | bB | 948 | LHG | C3-O3-P-O5 |
| 16 | cA | 852 | LHG | C3-O3-P-O5 |
| 16 | cA | 852 | LHG | C4-O6-P-O4 |
| 16 | cB | 948 | LHG | C3-O3-P-O5 |
| 17 | aB | 947 | LMG | C37-C38-C39-C40 |
| 17 | cB | 947 | LMG | C37-C38-C39-C40 |
| 12 | aB | 907 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 926 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 926 | CLA | CAA-CBA-CGA-O2A |
| 17 | bB | 947 | LMG | C37-C38-C39-C40 |
| 12 | cB | 907 | CLA | O1D-CGD-O2D-CED |
| 12 | bA | 821 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 827 | CLA | CAD-CBD-CGD-O1D |
| 12 | aB | 904 | CLA | CAD-CBD-CGD-O1D |
| 12 | aB | 935 | CLA | CAD-CBD-CGD-O1D |
| 12 | bA | 827 | CLA | CAD-CBD-CGD-O1D |
| 12 | bB | 904 | CLA | CAD-CBD-CGD-O1D |
| 12 | bB | 935 | CLA | CAD-CBD-CGD-O1D |
| 12 | cA | 827 | CLA | CAD-CBD-CGD-O1D |
| 12 | cB | 904 | CLA | CAD-CBD-CGD-O1D |
| 12 | cB | 935 | CLA | CAD-CBD-CGD-O1D |
| 12 | aA | 821 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 821 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 917 | CLA | C5-C6-C7-C8 |
| 12 | aA | 821 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 821 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 907 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 917 | CLA | C5-C6-C7-C8 |
| 12 | cB | 917 | CLA | C5-C6-C7-C8 |
| 12 | aA | 803 | CLA | C11-C10-C8-C7 |
| 12 | aA | 803 | CLA | C12-C13-C15-C16 |
| 12 | aA | 814 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 842 | CLA | C12-C13-C15-C16 |
| 12 | aB | 905 | CLA | C12-C13-C15-C16 |
| 12 | bA | 803 | CLA | C11-C10-C8-C7 |
| 12 | bA | 803 | CLA | C12-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bA | 814 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 842 | CLA | C12-C13-C15-C16 |
| 12 | bB | 905 | CLA | C12-C13-C15-C16 |
| 12 | cA | 803 | CLA | C11-C10-C8-C7 |
| 12 | cA | 803 | CLA | C12-C13-C15-C16 |
| 12 | cA | 814 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 842 | CLA | C12-C13-C15-C16 |
| 12 | cB | 905 | CLA | C12-C13-C15-C16 |
| 16 | bA | 851 | LHG | O6-C4-C5-O7 |
| 16 | cA | 851 | LHG | O6-C4-C5-O7 |
| 12 | aB | 916 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 916 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 916 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 830 | CLA | C10-C11-C12-C13 |
| 12 | bA | 830 | CLA | C10-C11-C12-C13 |
| 12 | cA | 830 | CLA | C10-C11-C12-C13 |
| 16 | aA | 852 | LHG | C11-C10-C9-C8 |
| 16 | bA | 851 | LHG | C11-C10-C9-C8 |
| 16 | cA | 851 | LHG | C11-C10-C9-C8 |
| 12 | aA | 840 | CLA | C4-C3-C5-C6 |
| 12 | bA | 840 | CLA | C4-C3-C5-C6 |
| 12 | cA | 840 | CLA | C4-C3-C5-C6 |
| 12 | bA | 821 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 842 | CLA | C14-C13-C15-C16 |
| 12 | aA | 843 | CLA | C14-C13-C15-C16 |
| 12 | bA | 842 | CLA | C14-C13-C15-C16 |
| 12 | bA | 843 | CLA | C14-C13-C15-C16 |
| 12 | cA | 842 | CLA | C14-C13-C15-C16 |
| 12 | cA | 843 | CLA | C14-C13-C15-C16 |
| 12 | aA | 854 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 931 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 931 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 840 | CLA | C15-C16-C17-C18 |
| 12 | bA | 840 | CLA | C15-C16-C17-C18 |
| 12 | cA | 840 | CLA | C15-C16-C17-C18 |
| 12 | cA | 853 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 832 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 832 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 832 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 853 | CLA | O1D-CGD-O2D-CED |
| 12 | aB | 912 | CLA | C10-C11-C12-C13 |
| 12 | cB | 912 | CLA | C10-C11-C12-C13 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 931 | CLA | CBD-CGD-O2D-CED |
| 12 | cB | 920 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 812 | CLA | C16-C17-C18-C19 |
| 12 | bA | 812 | CLA | C16-C17-C18-C19 |
| 12 | cA | 812 | CLA | C16-C17-C18-C19 |
| 12 | aB | 920 | CLA | O1D-CGD-O2D-CED |
| 12 | bB | 912 | CLA | C10-C11-C12-C13 |
| 12 | aA | 822 | CLA | C1-C2-C3-C4 |
| 12 | aB | 930 | CLA | C1-C2-C3-C4 |
| 12 | bA | 822 | CLA | C1-C2-C3-C4 |
| 12 | bB | 930 | CLA | C1-C2-C3-C4 |
| 12 | cA | 822 | CLA | C1-C2-C3-C4 |
| 12 | cB | 930 | CLA | C1-C2-C3-C4 |
| 12 | aA | 818 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 818 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 818 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 829 | CLA | C2-C1-O2A-CGA |
| 12 | aB | 903 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 829 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 903 | CLA | C2-C1-O2A-CGA |
| 12 | cA | 829 | CLA | C2-C1-O2A-CGA |
| 12 | cB | 903 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 920 | CLA | O1D-CGD-O2D-CED |
| 16 | aA | 852 | LHG | O6-C4-C5-O7 |
| 12 | aB | 926 | CLA | C16-C17-C18-C20 |
| 12 | bB | 926 | CLA | C16-C17-C18-C20 |
| 12 | cB | 926 | CLA | C16-C17-C18-C20 |
| 15 | aA | 849 | BCR | C1-C6-C7-C8 |
| 15 | aB | 941 | BCR | C23-C24-C25-C30 |
| 15 | aB | 945 | BCR | C1-C6-C7-C8 |
| 15 | aF | 201 | BCR | C1-C6-C7-C8 |
| 15 | bA | 848 | BCR | C1-C6-C7-C8 |
| 15 | bB | 941 | BCR | C23-C24-C25-C30 |
| 15 | bB | 945 | BCR | C1-C6-C7-C8 |
| 15 | bF | 201 | BCR | C1-C6-C7-C8 |
| 15 | cA | 848 | BCR | C1-C6-C7-C8 |
| 15 | cB | 941 | BCR | C23-C24-C25-C30 |
| 15 | cB | 945 | BCR | C1-C6-C7-C8 |
| 15 | cF | 201 | BCR | C1-C6-C7-C8 |
| 12 | aA | 812 | CLA | C2-C3-C5-C6 |
| 12 | bA | 812 | CLA | C2-C3-C5-C6 |
| 12 | cA | 812 | CLA | C2-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 16 | cA | 851 | LHG | C17-C18-C19-C20 |
| 16 | aA | 852 | LHG | C17-C18-C19-C20 |
| 16 | bA | 851 | LHG | C17-C18-C19-C20 |
| 12 | aA | 843 | CLA | CBA-CGA-O2A-C1 |
| 12 | bA | 843 | CLA | CBA-CGA-O2A-C1 |
| 12 | cA | 843 | CLA | CBA-CGA-O2A-C1 |
| 12 | aB | 921 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 921 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 921 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 812 | CLA | C16-C17-C18-C20 |
| 12 | bA | 812 | CLA | C16-C17-C18-C20 |
| 12 | cA | 812 | CLA | C16-C17-C18-C20 |
| 16 | bA | 851 | LHG | C7-C8-C9-C10 |
| 15 | aB | 943 | BCR | C20-C21-C22-C23 |
| 15 | bB | 943 | BCR | C20-C21-C22-C23 |
| 15 | cB | 943 | BCR | C20-C21-C22-C23 |
| 16 | aA | 852 | LHG | C3-O3-P-O6 |
| 16 | bA | 851 | LHG | C3-O3-P-O6 |
| 16 | cA | 851 | LHG | C3-O3-P-O6 |
| 16 | aA | 852 | LHG | C7-C8-C9-C10 |
| 16 | cA | 851 | LHG | C7-C8-C9-C10 |
| 12 | bA | 811 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 811 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 842 | CLA | C11-C12-C13-C14 |
| 12 | bA | 842 | CLA | C11-C12-C13-C14 |
| 12 | cA | 842 | CLA | C11-C12-C13-C14 |
| 15 | aF | 203 | BCR | C11-C12-C13-C35 |
| 15 | bF | 203 | BCR | C11-C12-C13-C35 |
| 12 | cA | 811 | CLA | O1D-CGD-O2D-CED |
| 13 | aB | 940 | 1L3 | C16-C18-C19-C20 |
| 13 | bB | 940 | 1L3 | C16-C18-C19-C20 |
| 13 | cB | 940 | 1L3 | C16-C18-C19-C20 |
| 15 | aB | 945 | BCR | C18-C19-C20-C21 |
| 15 | bB | 945 | BCR | C18-C19-C20-C21 |
| 15 | bL | 205 | BCR | C18-C19-C20-C21 |
| 15 | cB | 945 | BCR | C18-C19-C20-C21 |
| 15 | cL | 205 | BCR | C18-C19-C20-C21 |
| 11 | aA | 801 | CL0 | CAA-CBA-CGA-O2A |
| 11 | bA | 801 | CL0 | CAA-CBA-CGA-O2A |
| 11 | cA | 801 | CL0 | CAA-CBA-CGA-O2A |
| 12 | aA | 826 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 826 | CLA | C2-C1-O2A-CGA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 826 | CLA | C2-C1-O2A-CGA |
| 12 | aA | 813 | CLA | C2A-CAA-CBA-CGA |
| 12 | aB | 912 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 813 | CLA | C2A-CAA-CBA-CGA |
| 12 | bB | 912 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 813 | CLA | C2A-CAA-CBA-CGA |
| 12 | cB | 912 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 838 | CLA | C15-C16-C17-C18 |
| 12 | cB | 931 | CLA | C3-C5-C6-C7 |
| 12 | aB | 950 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 838 | CLA | C15-C16-C17-C18 |
| 12 | bA | 838 | CLA | C15-C16-C17-C18 |
| 12 | bA | 840 | CLA | C2-C3-C5-C6 |
| 12 | cA | 840 | CLA | C2-C3-C5-C6 |
| 12 | aB | 926 | CLA | C16-C17-C18-C19 |
| 12 | bB | 926 | CLA | C16-C17-C18-C19 |
| 12 | cB | 926 | CLA | C16-C17-C18-C19 |
| 12 | bA | 842 | CLA | CBD-CGD-O2D-CED |
| 15 | aA | 850 | BCR | C20-C21-C22-C37 |
| 15 | aA | 851 | BCR | C16-C17-C18-C36 |
| 15 | aB | 944 | BCR | C35-C13-C14-C15 |
| 15 | aF | 203 | BCR | C35-C13-C14-C15 |
| 15 | aL | 201 | BCR | C20-C21-C22-C37 |
| 15 | bA | 849 | BCR | C20-C21-C22-C37 |
| 15 | bA | 850 | BCR | C16-C17-C18-C36 |
| 15 | bB | 944 | BCR | C35-C13-C14-C15 |
| 15 | bF | 203 | BCR | C35-C13-C14-C15 |
| 15 | bL | 201 | BCR | C20-C21-C22-C37 |
| 15 | cA | 849 | BCR | C20-C21-C22-C37 |
| 15 | cA | 850 | BCR | C16-C17-C18-C36 |
| 15 | cB | 944 | BCR | C35-C13-C14-C15 |
| 15 | cF | 203 | BCR | C35-C13-C14-C15 |
| 15 | cL | 201 | BCR | C20-C21-C22-C37 |
| 12 | aA | 816 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 816 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 816 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 839 | CLA | O1D-CGD-O2D-CED |
| 15 | aB | 945 | BCR | C36-C18-C19-C20 |
| 15 | bB | 945 | BCR | C36-C18-C19-C20 |
| 15 | cB | 945 | BCR | C36-C18-C19-C20 |
| 15 | cF | 203 | BCR | C11-C12-C13-C35 |
| 12 | aB | 931 | CLA | C3-C5-C6-C7 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 931 | CLA | C3-C5-C6-C7 |
| 12 | cA | 814 | CLA | CAA-CBA-CGA-O1A |
| 12 | aA | 834 | CLA | C4-C3-C5-C6 |
| 12 | bA | 834 | CLA | C4-C3-C5-C6 |
| 12 | cA | 834 | CLA | C4-C3-C5-C6 |
| 12 | aA | 806 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 814 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 822 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 912 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 923 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 806 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 814 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 822 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 912 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 923 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 806 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 814 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 822 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 912 | CLA | C1A-C2A-CAA-CBA |
| 12 | cB | 923 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 842 | CLA | CBD-CGD-O2D-CED |
| 12 | aA | 840 | CLA | C2-C3-C5-C6 |
| 12 | aB | 931 | CLA | C11-C10-C8-C7 |
| 12 | bB | 931 | CLA | C11-C10-C8-C7 |
| 12 | cB | 931 | CLA | C11-C10-C8-C7 |
| 12 | aA | 814 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 814 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 912 | CLA | C2C-C3C-CAC-CBC |
| 15 | aA | 849 | BCR | C19-C20-C21-C22 |
| 15 | aB | 944 | BCR | C9-C10-C11-C12 |
| 15 | bA | 848 | BCR | C19-C20-C21-C22 |
| 15 | bB | 944 | BCR | C9-C10-C11-C12 |
| 15 | cA | 848 | BCR | C19-C20-C21-C22 |
| 15 | cB | 944 | BCR | C9-C10-C11-C12 |
| 12 | aA | 842 | CLA | CBD-CGD-O2D-CED |
| 12 | aB | 912 | CLA | C2C-C3C-CAC-CBC |
| 12 | aA | 816 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 816 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 839 | CLA | O1D-CGD-O2D-CED |
| 12 | aF | 202 | CLA | CAA-CBA-CGA-O2A |
| 12 | bF | 202 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 816 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cF | 202 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 912 | CLA | C2C-C3C-CAC-CBC |
| 12 | aB | 916 | CLA | C5-C6-C7-C8 |
| 12 | bB | 916 | CLA | C5-C6-C7-C8 |
| 11 | aA | 801 | CL0 | C16-C17-C18-C19 |
| 11 | bA | 801 | CL0 | C16-C17-C18-C19 |
| 11 | cA | 801 | CL0 | C16-C17-C18-C19 |
| 12 | cB | 916 | CLA | C5-C6-C7-C8 |
| 12 | aA | 834 | CLA | C2-C3-C5-C6 |
| 12 | bA | 834 | CLA | C2-C3-C5-C6 |
| 12 | cA | 834 | CLA | C2-C3-C5-C6 |
| 12 | aA | 813 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 813 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 813 | CLA | CAA-CBA-CGA-O1A |
| 12 | aA | 839 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 843 | CLA | C16-C17-C18-C19 |
| 12 | bA | 843 | CLA | C16-C17-C18-C19 |
| 15 | aF | 203 | BCR | C12-C13-C14-C15 |
| 15 | bF | 203 | BCR | C12-C13-C14-C15 |
| 15 | cF | 203 | BCR | C12-C13-C14-C15 |
| 12 | aB | 922 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 922 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 922 | CLA | CAA-CBA-CGA-O2A |
| 16 | aA | 853 | LHG | O7-C5-C6-O8 |
| 16 | bA | 852 | LHG | O7-C5-C6-O8 |
| 16 | cA | 852 | LHG | O7-C5-C6-O8 |
| 15 | aA | 848 | BCR | C6-C7-C8-C9 |
| 15 | aB | 943 | BCR | C6-C7-C8-C9 |
| 15 | bA | 847 | BCR | C6-C7-C8-C9 |
| 15 | bB | 943 | BCR | C6-C7-C8-C9 |
| 15 | cA | 847 | BCR | C6-C7-C8-C9 |
| 12 | cA | 843 | CLA | C16-C17-C18-C19 |
| 12 | aA | 813 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 813 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 813 | CLA | CAA-CBA-CGA-O2A |
| 16 | cA | 852 | LHG | C11-C10-C9-C8 |
| 12 | aA | 802 | CLA | C4-C3-C5-C6 |
| 12 | aB | 936 | CLA | C4-C3-C5-C6 |
| 12 | bA | 802 | CLA | C4-C3-C5-C6 |
| 12 | bB | 936 | CLA | C4-C3-C5-C6 |
| 12 | cA | 802 | CLA | C4-C3-C5-C6 |
| 12 | cB | 936 | CLA | C4-C3-C5-C6 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 818 | CLA | C2-C1-O2A-CGA |
| 12 | aA | 830 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 818 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 830 | CLA | C2-C1-O2A-CGA |
| 12 | cA | 818 | CLA | C2-C1-O2A-CGA |
| 12 | cA | 830 | CLA | C2-C1-O2A-CGA |
| 16 | aA | 853 | LHG | C11-C10-C9-C8 |
| 15 | aL | 205 | BCR | C18-C19-C20-C21 |
| 12 | aA | 814 | CLA | CAA-CBA-CGA-O2A |
| 12 | aF | 202 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 814 | CLA | CAA-CBA-CGA-O2A |
| 12 | bF | 202 | CLA | CAA-CBA-CGA-O1A |
| 12 | cF | 202 | CLA | CAA-CBA-CGA-O1A |
| 16 | bA | 852 | LHG | C11-C10-C9-C8 |
| 12 | bB | 931 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 814 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 922 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 931 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 912 | CLA | C4C-C3C-CAC-CBC |
| 12 | aA | 814 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 819 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 814 | CLA | C2A-CAA-CBA-CGA |
| 12 | bA | 819 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 814 | CLA | C2A-CAA-CBA-CGA |
| 12 | cA | 819 | CLA | C2A-CAA-CBA-CGA |
| 12 | aA | 844 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 950 | CLA | CAA-CBA-CGA-O1A |
| 12 | bB | 950 | CLA | CAA-CBA-CGA-O1A |
| 12 | bB | 912 | CLA | C4C-C3C-CAC-CBC |
| 12 | cB | 912 | CLA | C4C-C3C-CAC-CBC |
| 12 | aB | 913 | CLA | O1A-CGA-O2A-C1 |
| 12 | bB | 913 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 913 | CLA | O1A-CGA-O2A-C1 |
| 15 | aA | 848 | BCR | C23-C24-C25-C30 |
| 15 | aB | 944 | BCR | C23-C24-C25-C30 |
| 15 | aB | 946 | BCR | C23-C24-C25-C30 |
| 15 | aF | 201 | BCR | C23-C24-C25-C26 |
| 15 | aF | 201 | BCR | C23-C24-C25-C30 |
| 15 | aI | 101 | BCR | C23-C24-C25-C30 |
| 15 | bA | 847 | BCR | C23-C24-C25-C30 |
| 15 | bB | 944 | BCR | C23-C24-C25-C30 |
| 15 | bB | 946 | BCR | C23-C24-C25-C30 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | bF | 201 | BCR | C23-C24-C25-C26 |
| 15 | bF | 201 | BCR | C23-C24-C25-C30 |
| 15 | bI | 101 | BCR | C23-C24-C25-C30 |
| 15 | cA | 847 | BCR | C23-C24-C25-C30 |
| 15 | cB | 944 | BCR | C23-C24-C25-C30 |
| 15 | cB | 946 | BCR | C23-C24-C25-C30 |
| 15 | cF | 201 | BCR | C23-C24-C25-C26 |
| 15 | cF | 201 | BCR | C23-C24-C25-C30 |
| 15 | cI | 101 | BCR | C23-C24-C25-C30 |
| 12 | aB | 931 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 922 | CLA | CAA-CBA-CGA-O1A |
| 12 | bB | 922 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 909 | CLA | C5-C6-C7-C8 |
| 12 | bB | 909 | CLA | C5-C6-C7-C8 |
| 12 | cA | 827 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 926 | CLA | C4-C3-C5-C6 |
| 12 | bB | 926 | CLA | C4-C3-C5-C6 |
| 12 | cB | 926 | CLA | C4-C3-C5-C6 |
| 12 | aA | 830 | CLA | C15-C16-C17-C18 |
| 12 | bA | 830 | CLA | C15-C16-C17-C18 |
| 12 | cA | 830 | CLA | C15-C16-C17-C18 |
| 12 | cB | 909 | CLA | C5-C6-C7-C8 |
| 12 | bB | 905 | CLA | C8-C10-C11-C12 |
| 12 | aB | 905 | CLA | C8-C10-C11-C12 |
| 12 | aA | 810 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 929 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 810 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 929 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 810 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 929 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 827 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 827 | CLA | O1A-CGA-O2A-C1 |
| 11 | cA | 801 | CL0 | C3-C5-C6-C7 |
| 12 | cB | 905 | CLA | C8-C10-C11-C12 |
| 12 | aB | 926 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 926 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 926 | CLA | CBA-CGA-O2A-C1 |
| 11 | aA | 801 | CL0 | C3-C5-C6-C7 |
| 11 | bA | 801 | CL0 | C3-C5-C6-C7 |
| 12 | aA | 839 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 929 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 839 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 839 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 838 | CLA | C4-C3-C5-C6 |
| 12 | aB | 912 | CLA | C4-C3-C5-C6 |
| 12 | bA | 838 | CLA | C4-C3-C5-C6 |
| 12 | bB | 912 | CLA | C4-C3-C5-C6 |
| 12 | cA | 838 | CLA | C4-C3-C5-C6 |
| 12 | cB | 912 | CLA | C4-C3-C5-C6 |
| 12 | bB | 929 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 929 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 913 | CLA | CBA-CGA-O2A-C1 |
| 12 | bB | 913 | CLA | CBA-CGA-O2A-C1 |
| 12 | cB | 913 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 836 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 836 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 836 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 902 | CLA | C8-C10-C11-C12 |
| 12 | bB | 902 | CLA | C8-C10-C11-C12 |
| 12 | cB | 902 | CLA | C8-C10-C11-C12 |
| 15 | aA | 851 | BCR | C11-C10-C9-C34 |
| 15 | bA | 850 | BCR | C11-C10-C9-C34 |
| 15 | cA | 850 | BCR | C11-C10-C9-C34 |
| 12 | aB | 919 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 919 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 829 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 919 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 810 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 810 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 810 | CLA | CAA-CBA-CGA-O1A |
| 12 | aA | 803 | CLA | C11-C10-C8-C9 |
| 12 | aA | 803 | CLA | C14-C13-C15-C16 |
| 12 | aA | 807 | CLA | C6-C7-C8-C9 |
| 12 | aA | 807 | CLA | C11-C10-C8-C9 |
| 12 | aB | 905 | CLA | C14-C13-C15-C16 |
| 12 | aB | 926 | CLA | C11-C12-C13-C14 |
| 12 | aB | 931 | CLA | C11-C10-C8-C9 |
| 12 | bA | 803 | CLA | C11-C10-C8-C9 |
| 12 | bA | 803 | CLA | C14-C13-C15-C16 |
| 12 | bA | 807 | CLA | C6-C7-C8-C9 |
| 12 | bA | 807 | CLA | C11-C10-C8-C9 |
| 12 | bB | 905 | CLA | C14-C13-C15-C16 |
| 12 | bB | 926 | CLA | C11-C12-C13-C14 |
| 12 | bB | 931 | CLA | C11-C10-C8-C9 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 803 | CLA | C11-C10-C8-C9 |
| 12 | cA | 803 | CLA | C14-C13-C15-C16 |
| 12 | cA | 807 | CLA | C6-C7-C8-C9 |
| 12 | cA | 807 | CLA | C11-C10-C8-C9 |
| 12 | cB | 905 | CLA | C14-C13-C15-C16 |
| 12 | cB | 926 | CLA | C11-C12-C13-C14 |
| 12 | cB | 931 | CLA | C11-C10-C8-C9 |
| 12 | aA | 809 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 822 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 844 | CLA | C3A-C2A-CAA-CBA |
| 12 | aB | 912 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 809 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 822 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 912 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 950 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 809 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 822 | CLA | C3A-C2A-CAA-CBA |
| 12 | cB | 912 | CLA | C3A-C2A-CAA-CBA |
| 12 | aA | 822 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 823 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 829 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 822 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 823 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 829 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 822 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 823 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 933 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 933 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 933 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 822 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 826 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 831 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 837 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 912 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 929 | CLA | CAD-CBD-CGD-O2D |
| 12 | aB | 949 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 822 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 826 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 831 | CLA | CAD-CBD-CGD-O2D |
| 12 | bA | 837 | CLA | CAD-CBD-CGD-O2D |
| 12 | bB | 912 | CLA | CAD-CBD-CGD-O2D |
| 12 | bB | 929 | CLA | CAD-CBD-CGD-O2D |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 949 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 822 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 826 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 831 | CLA | CAD-CBD-CGD-O2D |
| 12 | cA | 837 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 912 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 929 | CLA | CAD-CBD-CGD-O2D |
| 12 | cB | 949 | CLA | CAD-CBD-CGD-O2D |
| 12 | aA | 834 | CLA | C2-C1-O2A-CGA |
| 12 | aB | 927 | CLA | C2-C1-O2A-CGA |
| 12 | bA | 834 | CLA | C2-C1-O2A-CGA |
| 12 | cA | 834 | CLA | C2-C1-O2A-CGA |
| 15 | cB | 943 | BCR | C6-C7-C8-C9 |
| 12 | bB | 928 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 802 | CLA | C2-C3-C5-C6 |
| 12 | aB | 926 | CLA | C2-C3-C5-C6 |
| 12 | bA | 802 | CLA | C2-C3-C5-C6 |
| 12 | bB | 926 | CLA | C2-C3-C5-C6 |
| 12 | cA | 802 | CLA | C2-C3-C5-C6 |
| 12 | cB | 926 | CLA | C2-C3-C5-C6 |
| 12 | cA | 843 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 836 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 933 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 836 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 839 | CLA | CAA-CBA-CGA-O1A |
| 12 | bB | 933 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 836 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 933 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 928 | CLA | CBA-CGA-O2A-C1 |
| 12 | aA | 828 | CLA | O1D-CGD-O2D-CED |
| 12 | cA | 828 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 843 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 843 | CLA | CAA-CBA-CGA-O2A |
| 17 | aB | 947 | LMG | O7-C10-C11-C12 |
| 17 | bB | 947 | LMG | O7-C10-C11-C12 |
| 17 | cB | 947 | LMG | O7-C10-C11-C12 |
| 12 | aB | 923 | CLA | O2A-C1-C2-C3 |
| 12 | bB | 923 | CLA | O2A-C1-C2-C3 |
| 12 | cB | 923 | CLA | O2A-C1-C2-C3 |
| 12 | cB | 928 | CLA | CBA-CGA-O2A-C1 |
| 15 | bB | 945 | BCR | C14-C15-C16-C17 |
| 12 | aB | 905 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 905 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 905 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 839 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 839 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 818 | CLA | C5-C6-C7-C8 |
| 12 | aA | 803 | CLA | CHA-CBD-CGD-O2D |
| 12 | aA | 827 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 904 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 908 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 908 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 923 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 923 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 932 | CLA | CHA-CBD-CGD-O1D |
| 12 | aB | 932 | CLA | CHA-CBD-CGD-O2D |
| 12 | aB | 935 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 803 | CLA | CHA-CBD-CGD-O2D |
| 12 | bA | 816 | CLA | CHA-CBD-CGD-O1D |
| 12 | bA | 827 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 904 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 908 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 908 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 923 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 923 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 932 | CLA | CHA-CBD-CGD-O1D |
| 12 | bB | 932 | CLA | CHA-CBD-CGD-O2D |
| 12 | bB | 935 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 803 | CLA | CHA-CBD-CGD-O2D |
| 12 | cA | 827 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 904 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 908 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 908 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 923 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 923 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 932 | CLA | CHA-CBD-CGD-O1D |
| 12 | cB | 932 | CLA | CHA-CBD-CGD-O2D |
| 12 | cB | 935 | CLA | CHA-CBD-CGD-O2D |
| 12 | aL | 203 | CLA | CAA-CBA-CGA-O2A |
| 12 | bL | 203 | CLA | CAA-CBA-CGA-O2A |
| 12 | cL | 203 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 909 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 818 | CLA | C5-C6-C7-C8 |
| 12 | cA | 818 | CLA | C5-C6-C7-C8 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 15 | aA | 851 | BCR | C11-C10-C9-C8 |
| 15 | aA | 851 | BCR | C16-C17-C18-C19 |
| 15 | aL | 201 | BCR | C20-C21-C22-C23 |
| 15 | bA | 850 | BCR | C11-C10-C9-C8 |
| 15 | bA | 850 | BCR | C16-C17-C18-C19 |
| 15 | bB | 945 | BCR | C12-C13-C14-C15 |
| 15 | bL | 201 | BCR | C20-C21-C22-C23 |
| 15 | cA | 850 | BCR | C11-C10-C9-C8 |
| 15 | cA | 850 | BCR | C16-C17-C18-C19 |
| 15 | cL | 201 | BCR | C20-C21-C22-C23 |
| 12 | aA | 827 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 909 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 909 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 820 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 936 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 936 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 936 | CLA | CAA-CBA-CGA-O2A |
| 16 | aA | 853 | LHG | O7-C7-C8-C9 |
| 16 | cA | 852 | LHG | O7-C7-C8-C9 |
| 12 | bA | 828 | CLA | O1D-CGD-O2D-CED |
| 12 | aA | 844 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 950 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 826 | CLA | C5-C6-C7-C8 |
| 12 | bB | 926 | CLA | O1A-CGA-O2A-C1 |
| 12 | bA | 820 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 827 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 820 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 827 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 908 | CLA | CAA-CBA-CGA-O2A |
| 16 | bA | 852 | LHG | O7-C7-C8-C9 |
| 12 | aB | 950 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 926 | CLA | O1A-CGA-O2A-C1 |
| 12 | aA | 807 | CLA | C11-C10-C8-C7 |
| 12 | aA | 807 | CLA | C12-C13-C15-C16 |
| 12 | aA | 842 | CLA | C11-C10-C8-C7 |
| 12 | aB | 912 | CLA | C2-C3-C5-C6 |
| 12 | bA | 807 | CLA | C11-C10-C8-C7 |
| 12 | bA | 807 | CLA | C12-C13-C15-C16 |
| 12 | bA | 842 | CLA | C11-C10-C8-C7 |
| 12 | bB | 912 | CLA | C2-C3-C5-C6 |
| 12 | cA | 807 | CLA | C11-C10-C8-C7 |
| 12 | cA | 807 | CLA | C12-C13-C15-C16 |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 842 | CLA | C11-C10-C8-C7 |
| 12 | cB | 912 | CLA | C2-C3-C5-C6 |
| 12 | aA | 826 | CLA | C5-C6-C7-C8 |
| 12 | cA | 826 | CLA | C5-C6-C7-C8 |
| 12 | aA | 805 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 908 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 805 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 908 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 805 | CLA | CAA-CBA-CGA-O2A |
| 15 | aB | 945 | BCR | C14-C15-C16-C17 |
| 15 | cB | 945 | BCR | C14-C15-C16-C17 |
| 12 | aB | 926 | CLA | O1A-CGA-O2A-C1 |
| 12 | cA | 834 | CLA | C13-C15-C16-C17 |
| 12 | aB | 914 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 914 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 914 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 834 | CLA | C13-C15-C16-C17 |
| 12 | bA | 834 | CLA | C13-C15-C16-C17 |
| 17 | aB | 947 | LMG | C14-C15-C16-C17 |
| 15 | aA | 851 | BCR | C7-C8-C9-C34 |
| 15 | bA | 849 | BCR | C37-C22-C23-C24 |
| 15 | cA | 850 | BCR | C7-C8-C9-C34 |
| 12 | aA | 822 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 822 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 909 | CLA | C4-C3-C5-C6 |
| 12 | bB | 909 | CLA | C4-C3-C5-C6 |
| 12 | cB | 909 | CLA | C4-C3-C5-C6 |
| 17 | bB | 947 | LMG | C14-C15-C16-C17 |
| 17 | cB | 947 | LMG | C14-C15-C16-C17 |
| 12 | aA | 802 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 815 | CLA | C1A-C2A-CAA-CBA |
| 12 | aA | 832 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 937 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 950 | CLA | C1A-C2A-CAA-CBA |
| 12 | aL | 203 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 802 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 815 | CLA | C1A-C2A-CAA-CBA |
| 12 | bA | 832 | CLA | C1A-C2A-CAA-CBA |
| 12 | bB | 937 | CLA | C1A-C2A-CAA-CBA |
| 12 | bL | 203 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 802 | CLA | C1A-C2A-CAA-CBA |
| 12 | cA | 815 | CLA | C1A-C2A-CAA-CBA |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | cA | 832 | CLA | C1A-C2A-CAA-CBA |
| 12 | cL | 203 | CLA | C1A-C2A-CAA-CBA |
| 12 | aB | 919 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 822 | CLA | CAA-CBA-CGA-O1A |
| 12 | bB | 919 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 919 | CLA | CAA-CBA-CGA-O1A |
| 12 | aL | 203 | CLA | CAA-CBA-CGA-O1A |
| 12 | bL | 203 | CLA | CAA-CBA-CGA-O1A |
| 12 | cL | 203 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 928 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 928 | CLA | O1A-CGA-O2A-C1 |
| 12 | aB | 926 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 926 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 927 | CLA | C2-C1-O2A-CGA |
| 12 | cB | 926 | CLA | C2-C1-O2A-CGA |
| 12 | cB | 927 | CLA | C2-C1-O2A-CGA |
| 12 | bB | 926 | CLA | C8-C10-C11-C12 |
| 12 | aA | 805 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 805 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 805 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 926 | CLA | C8-C10-C11-C12 |
| 12 | bB | 928 | CLA | O1A-CGA-O2A-C1 |
| 12 | cB | 926 | CLA | C8-C10-C11-C12 |
| 12 | aA | 823 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 823 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 936 | CLA | C2-C3-C5-C6 |
| 12 | bB | 936 | CLA | C2-C3-C5-C6 |
| 12 | cB | 936 | CLA | C2-C3-C5-C6 |
| 12 | aB | 905 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 823 | CLA | CAA-CBA-CGA-O1A |
| 12 | bB | 905 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 905 | CLA | CAA-CBA-CGA-O1A |
| 15 | aF | 203 | BCR | C23-C24-C25-C26 |
| 15 | aF | 203 | BCR | C23-C24-C25-C30 |
| 15 | bF | 203 | BCR | C23-C24-C25-C26 |
| 15 | bF | 203 | BCR | C23-C24-C25-C30 |
| 15 | cF | 203 | BCR | C23-C24-C25-C26 |
| 15 | cF | 203 | BCR | C23-C24-C25-C30 |
| 12 | aB | 909 | CLA | CAA-CBA-CGA-O1A |
| 12 | bB | 909 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 909 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 906 | CLA | CAA-CBA-CGA-O2A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 906 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 906 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 806 | CLA | CAD-CBD-CGD-O1D |
| 12 | aA | 814 | CLA | CAD-CBD-CGD-O1D |
| 12 | aA | 825 | CLA | CAD-CBD-CGD-O1D |
| 12 | aA | 830 | CLA | CAD-CBD-CGD-O1D |
| 12 | aB | 908 | CLA | CAD-CBD-CGD-O1D |
| 12 | aB | 912 | CLA | CAD-CBD-CGD-O1D |
| 12 | aB | 927 | CLA | CAD-CBD-CGD-O1D |
| 12 | aB | 934 | CLA | CAD-CBD-CGD-O1D |
| 12 | bA | 806 | CLA | CAD-CBD-CGD-O1D |
| 12 | bA | 814 | CLA | CAD-CBD-CGD-O1D |
| 12 | bA | 825 | CLA | CAD-CBD-CGD-O1D |
| 12 | bA | 830 | CLA | CAD-CBD-CGD-O1D |
| 12 | bB | 908 | CLA | CAD-CBD-CGD-O1D |
| 12 | bB | 912 | CLA | CAD-CBD-CGD-O1D |
| 12 | bB | 927 | CLA | CAD-CBD-CGD-O1D |
| 12 | cA | 806 | CLA | CAD-CBD-CGD-O1D |
| 12 | cA | 814 | CLA | CAD-CBD-CGD-O1D |
| 12 | cA | 825 | CLA | CAD-CBD-CGD-O1D |
| 12 | cA | 830 | CLA | CAD-CBD-CGD-O1D |
| 12 | cB | 908 | CLA | CAD-CBD-CGD-O1D |
| 12 | cB | 912 | CLA | CAD-CBD-CGD-O1D |
| 12 | cB | 927 | CLA | CAD-CBD-CGD-O1D |
| 12 | cB | 934 | CLA | CAD-CBD-CGD-O1D |
| 12 | aB | 908 | CLA | CAA-CBA-CGA-O1A |
| 12 | bB | 908 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 908 | CLA | CAA-CBA-CGA-O1A |
| 16 | aA | 852 | LHG | O10-C23-C24-C25 |
| 16 | bA | 851 | LHG | O10-C23-C24-C25 |
| 16 | cA | 851 | LHG | O10-C23-C24-C25 |
| 12 | aA | 806 | CLA | C6-C7-C8-C9 |
| 12 | aB | 926 | CLA | C6-C7-C8-C9 |
| 12 | bA | 806 | CLA | C6-C7-C8-C9 |
| 12 | bB | 926 | CLA | C6-C7-C8-C9 |
| 12 | cA | 806 | CLA | C6-C7-C8-C9 |
| 12 | cB | 926 | CLA | C6-C7-C8-C9 |
| 12 | bB | 914 | CLA | CAA-CBA-CGA-O1A |
| 12 | aA | 838 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 913 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 914 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 914 | CLA | CAA-CBA-CGA-O1A |

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| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | aA | 803 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 913 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 803 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 838 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 803 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 838 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 913 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 828 | CLA | C10-C11-C12-C13 |
| 12 | bA | 828 | CLA | C10-C11-C12-C13 |
| 12 | cA | 828 | CLA | C10-C11-C12-C13 |
| 12 | aA | 827 | CLA | CAA-CBA-CGA-O1A |
| 12 | aB | 936 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 827 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 827 | CLA | CAA-CBA-CGA-O1A |
| 12 | cB | 936 | CLA | CAA-CBA-CGA-O1A |
| 12 | aA | 854 | CLA | C4-C3-C5-C6 |
| 12 | bA | 853 | CLA | C4-C3-C5-C6 |
| 12 | cA | 853 | CLA | C4-C3-C5-C6 |
| 12 | aA | 843 | CLA | C12-C13-C15-C16 |
| 12 | aB | 923 | CLA | C3A-C2A-CAA-CBA |
| 12 | bA | 843 | CLA | C12-C13-C15-C16 |
| 12 | bB | 923 | CLA | C3A-C2A-CAA-CBA |
| 12 | cA | 843 | CLA | C12-C13-C15-C16 |
| 12 | cB | 923 | CLA | C3A-C2A-CAA-CBA |
| 12 | bB | 936 | CLA | CAA-CBA-CGA-O1A |
| 12 | aA | 825 | CLA | CAA-CBA-CGA-O2A |
| 12 | aB | 915 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 807 | CLA | CAA-CBA-CGA-O2A |
| 12 | bA | 825 | CLA | CAA-CBA-CGA-O2A |
| 12 | bB | 915 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 807 | CLA | CAA-CBA-CGA-O2A |
| 12 | cA | 825 | CLA | CAA-CBA-CGA-O2A |
| 12 | cB | 915 | CLA | CAA-CBA-CGA-O2A |
| 15 | aF | 203 | BCR | C7-C8-C9-C10 |
| 15 | bF | 203 | BCR | C7-C8-C9-C10 |
| 15 | cF | 203 | BCR | C7-C8-C9-C10 |
| 17 | bB | 947 | LMG | O9-C10-C11-C12 |
| 17 | cB | 947 | LMG | O9-C10-C11-C12 |
| 12 | cB | 920 | CLA | CAA-CBA-CGA-O2A |
| 12 | aA | 807 | CLA | CAA-CBA-CGA-O2A |
| 17 | aB | 947 | LMG | O9-C10-C11-C12 |
| 12 | aB | 920 | CLA | CAA-CBA-CGA-O2A |

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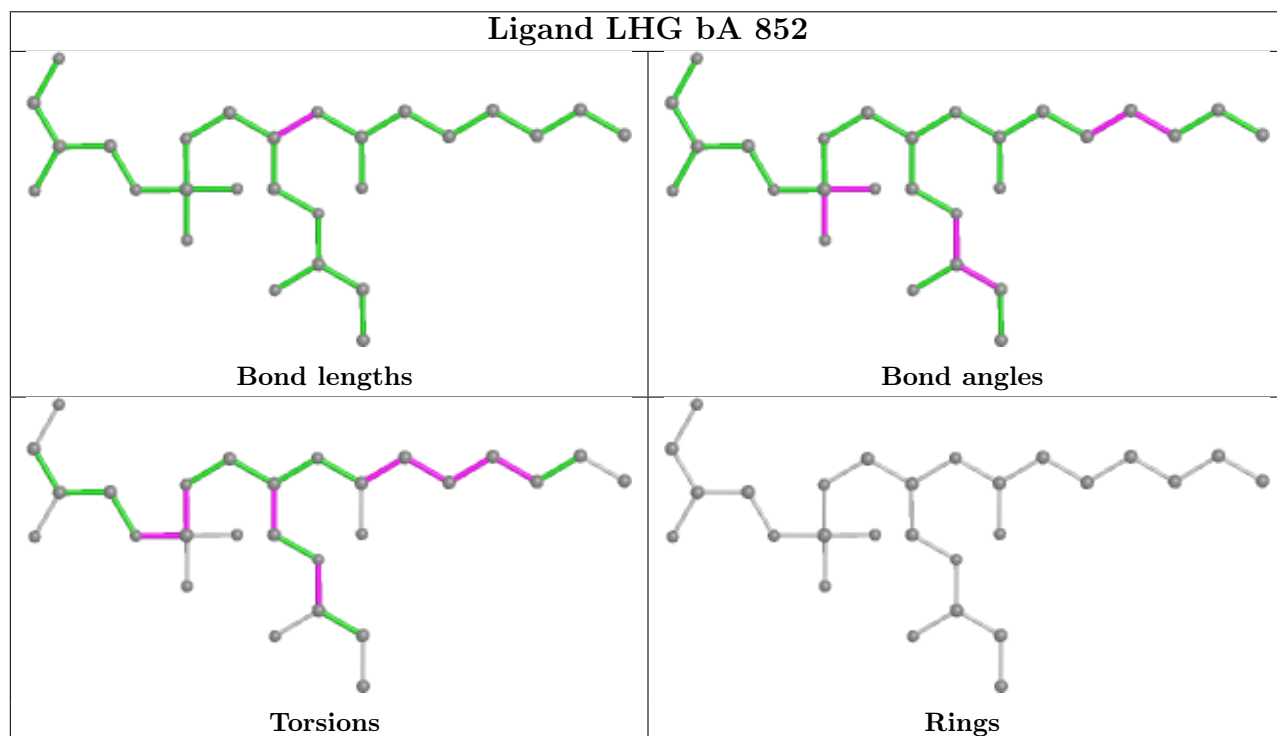
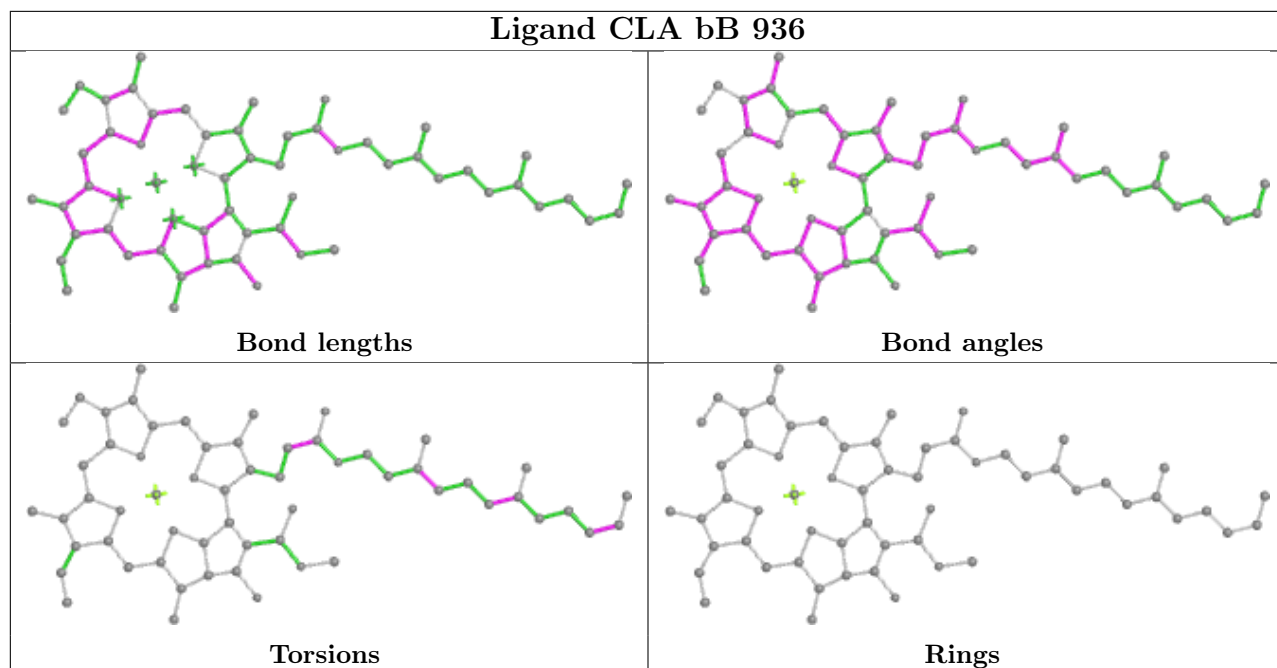
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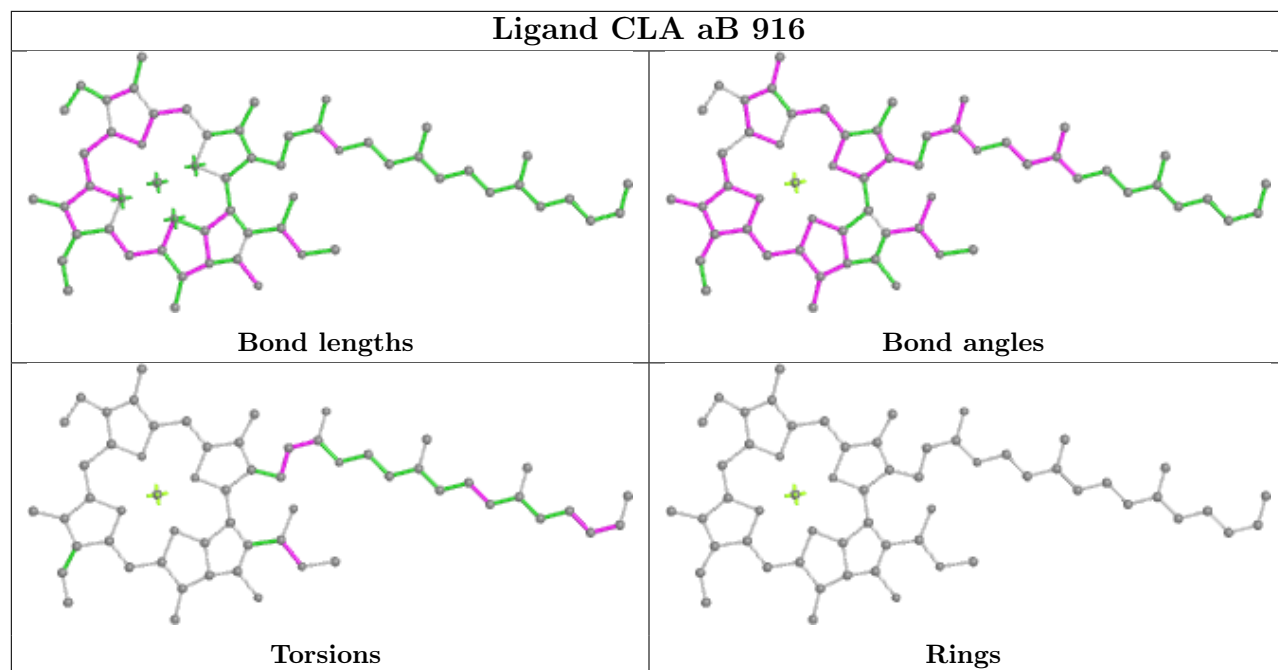
| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 12 | bB | 920 | CLA | CAA-CBA-CGA-O2A |
| 16 | aB | 948 | LHG | O7-C7-C8-C9 |
| 16 | bB | 948 | LHG | O7-C7-C8-C9 |
| 12 | aA | 825 | CLA | CAA-CBA-CGA-O1A |
| 12 | bA | 825 | CLA | CAA-CBA-CGA-O1A |
| 12 | cA | 825 | CLA | CAA-CBA-CGA-O1A |
| 16 | bA | 851 | LHG | O9-C7-C8-C9 |
| 12 | aB | 905 | CLA | C15-C16-C17-C18 |
| 12 | bB | 905 | CLA | C15-C16-C17-C18 |
| 12 | cB | 905 | CLA | C15-C16-C17-C18 |
| 12 | bB | 907 | CLA | CAA-CBA-CGA-O2A |
| 16 | cB | 948 | LHG | O7-C7-C8-C9 |

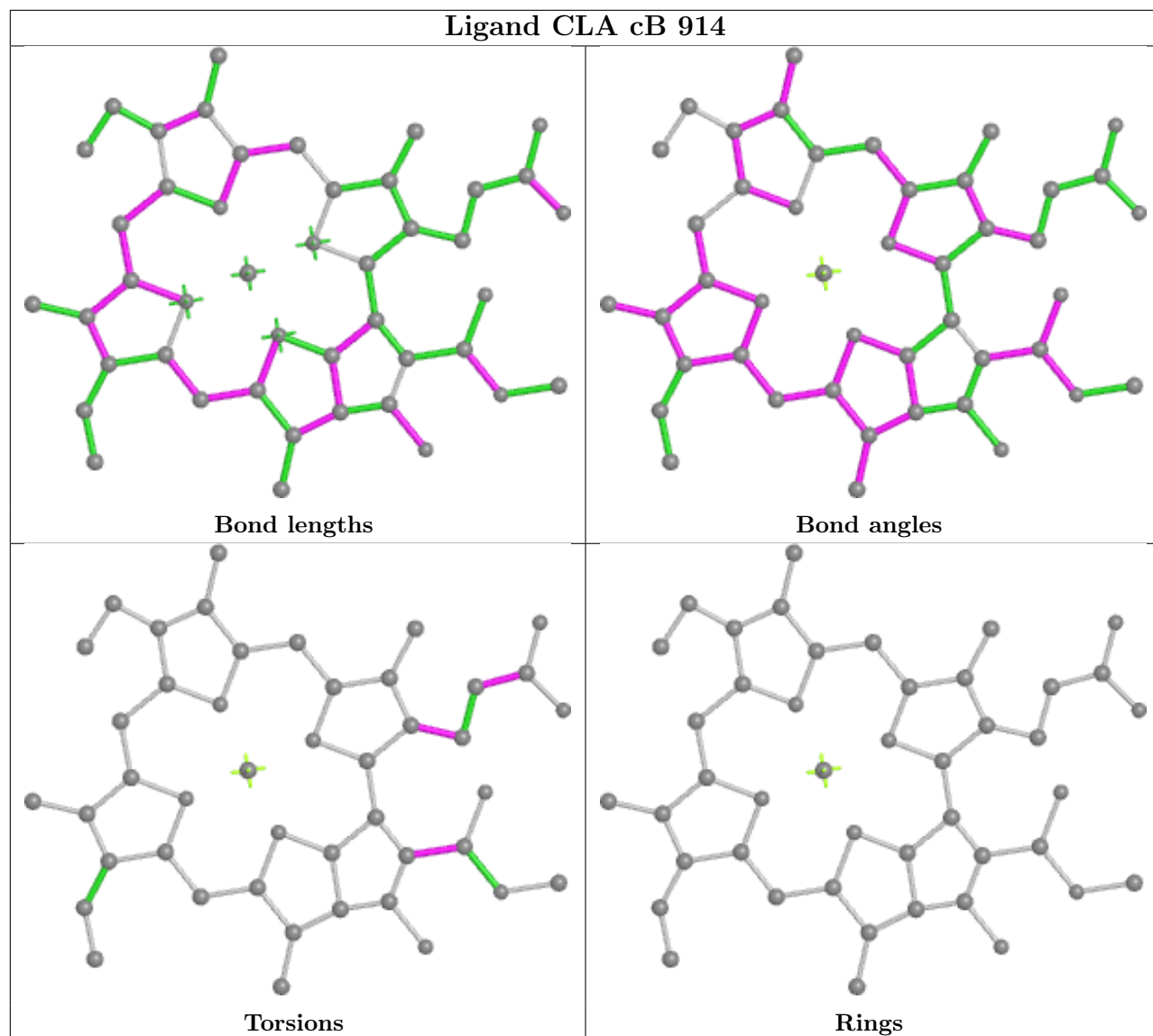
There are no ring outliers.

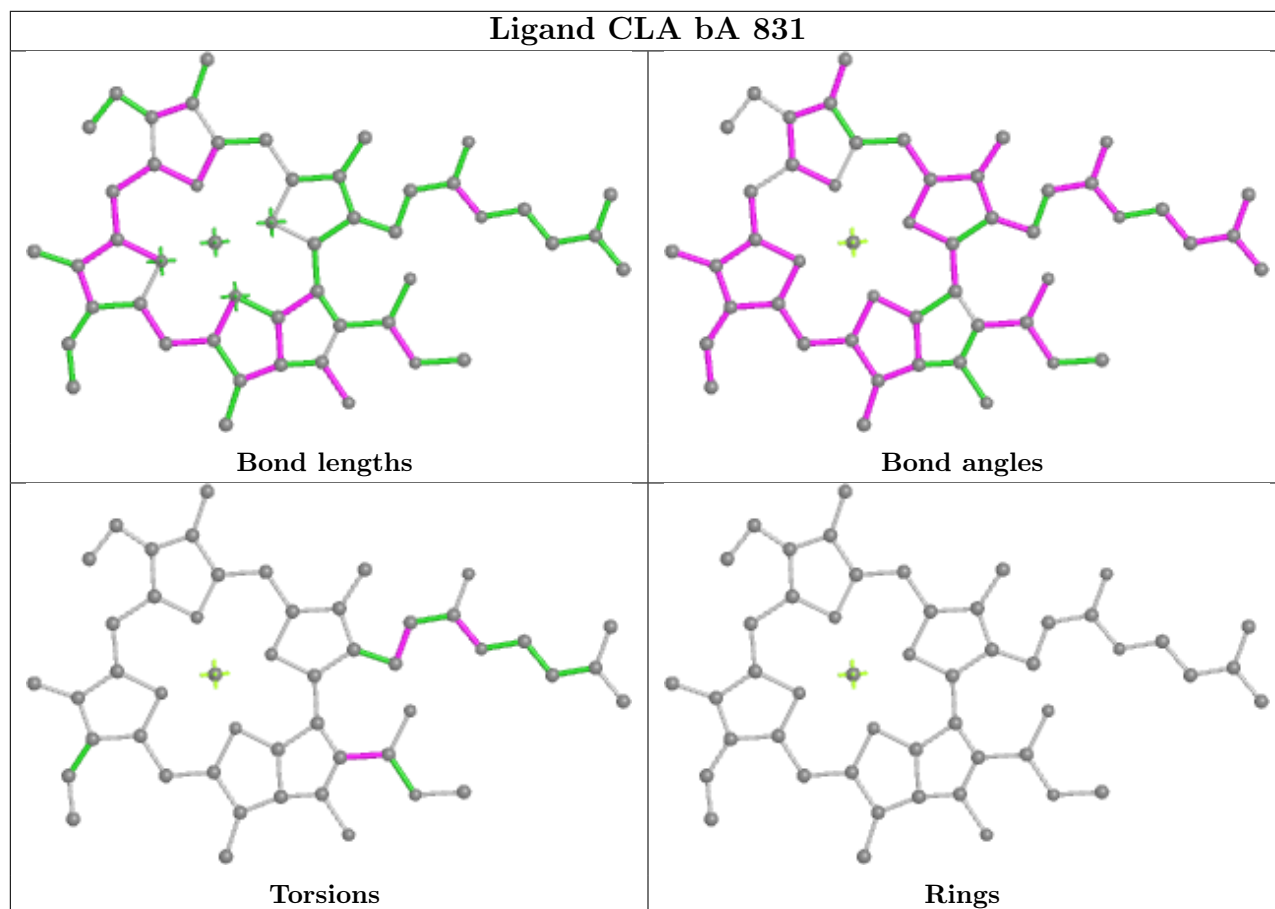
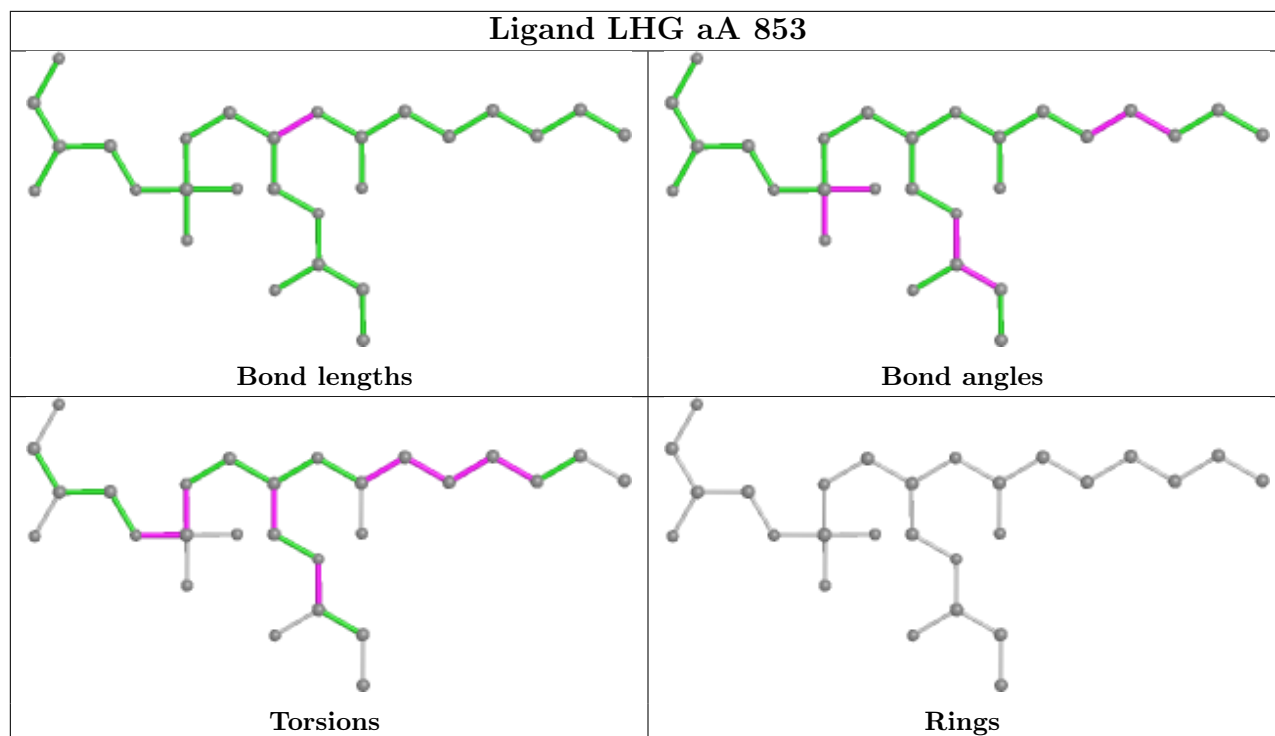
No monomer is involved in short contacts.

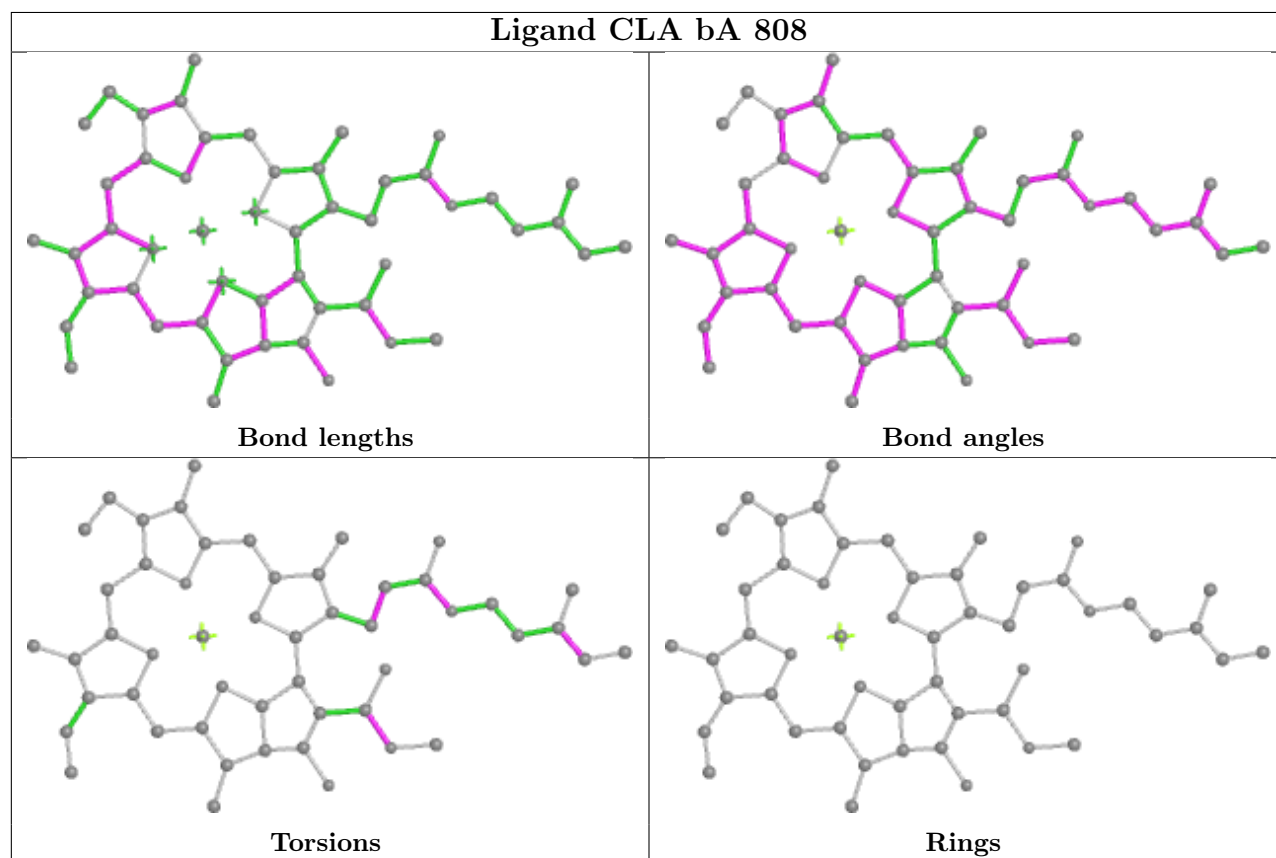
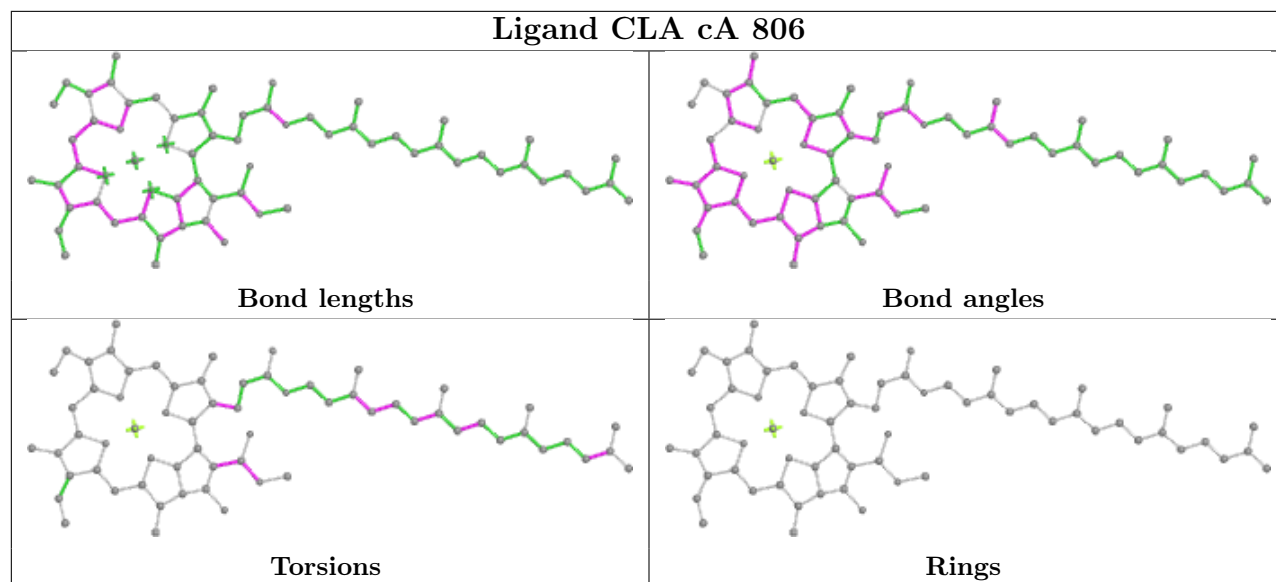
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

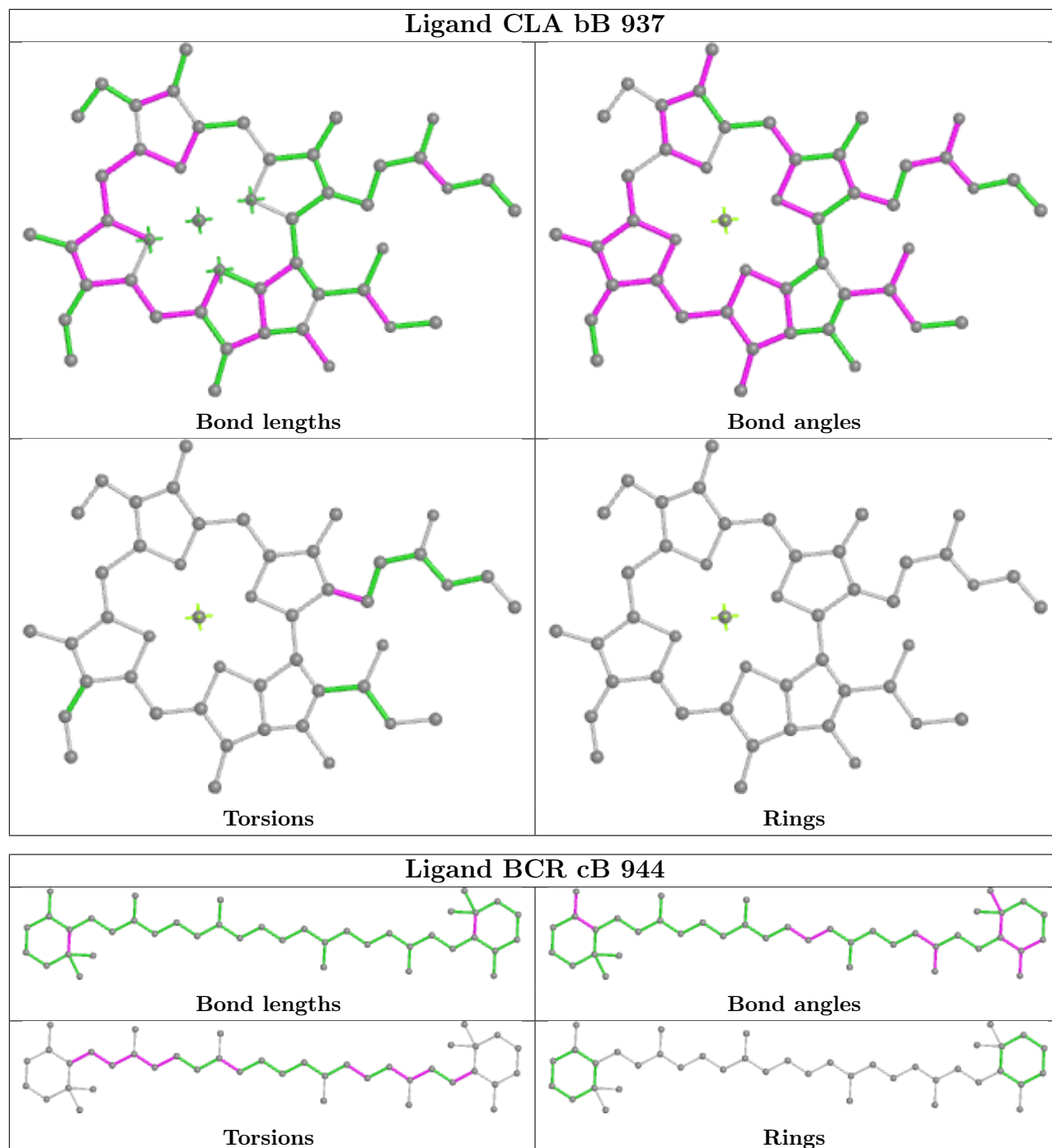


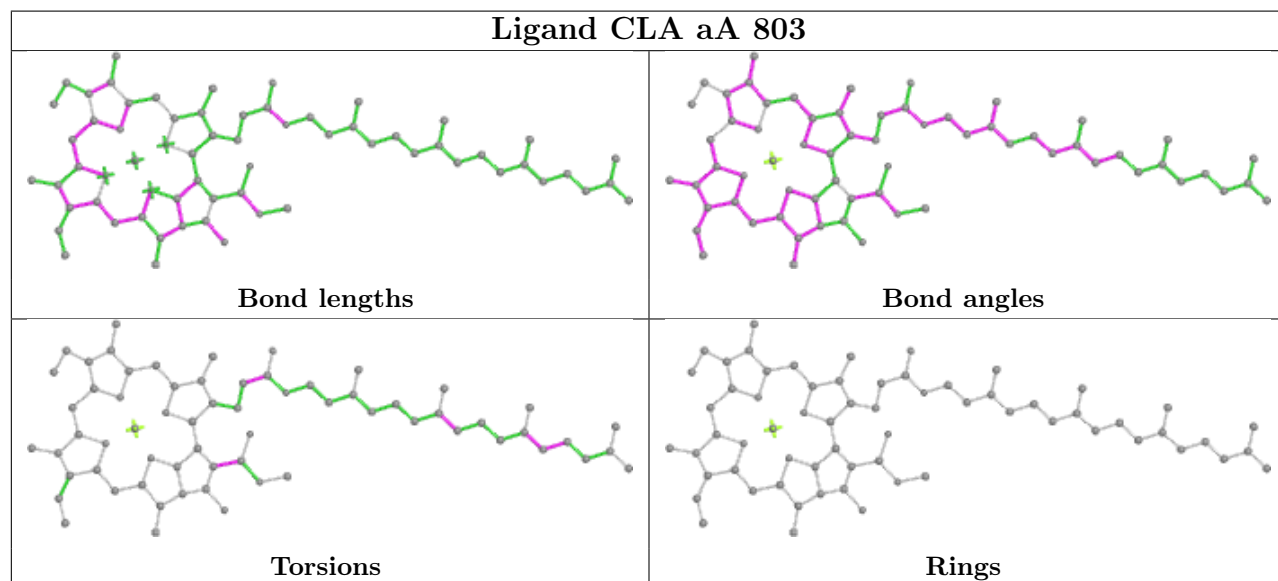
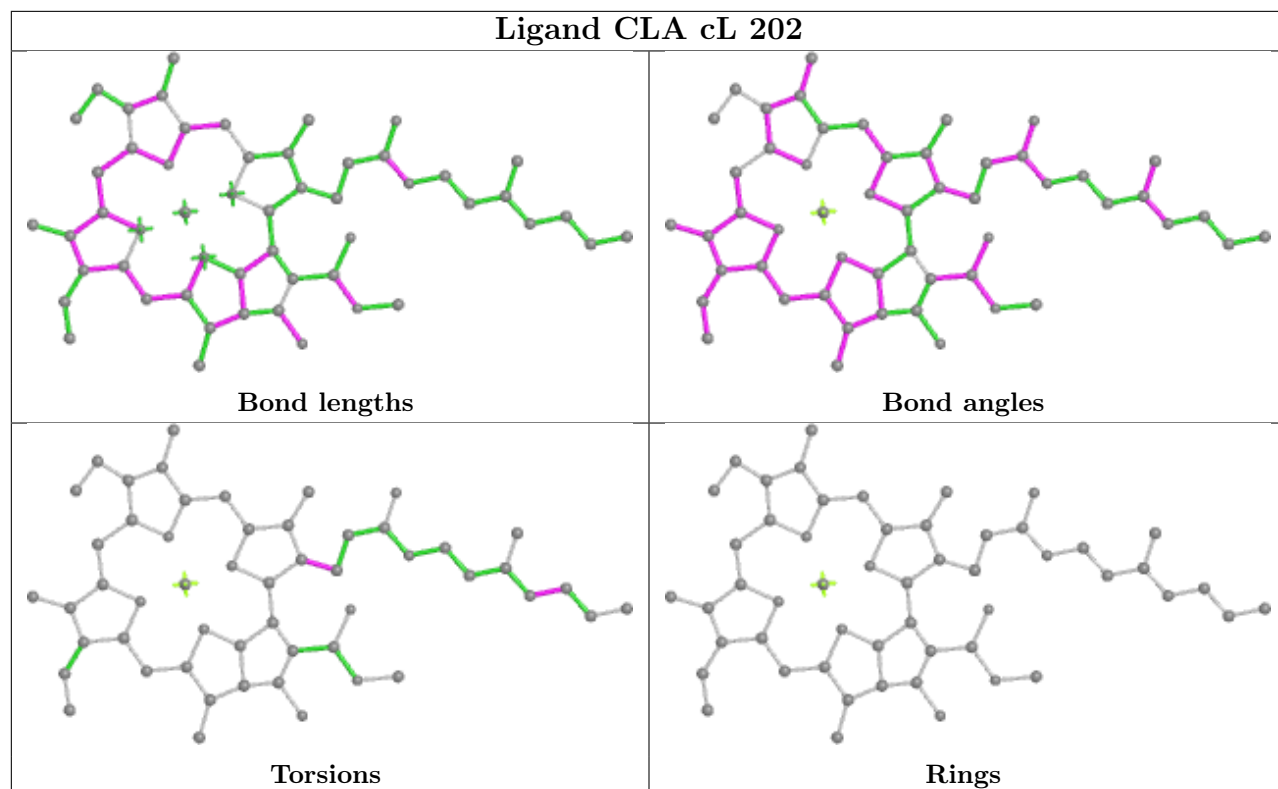


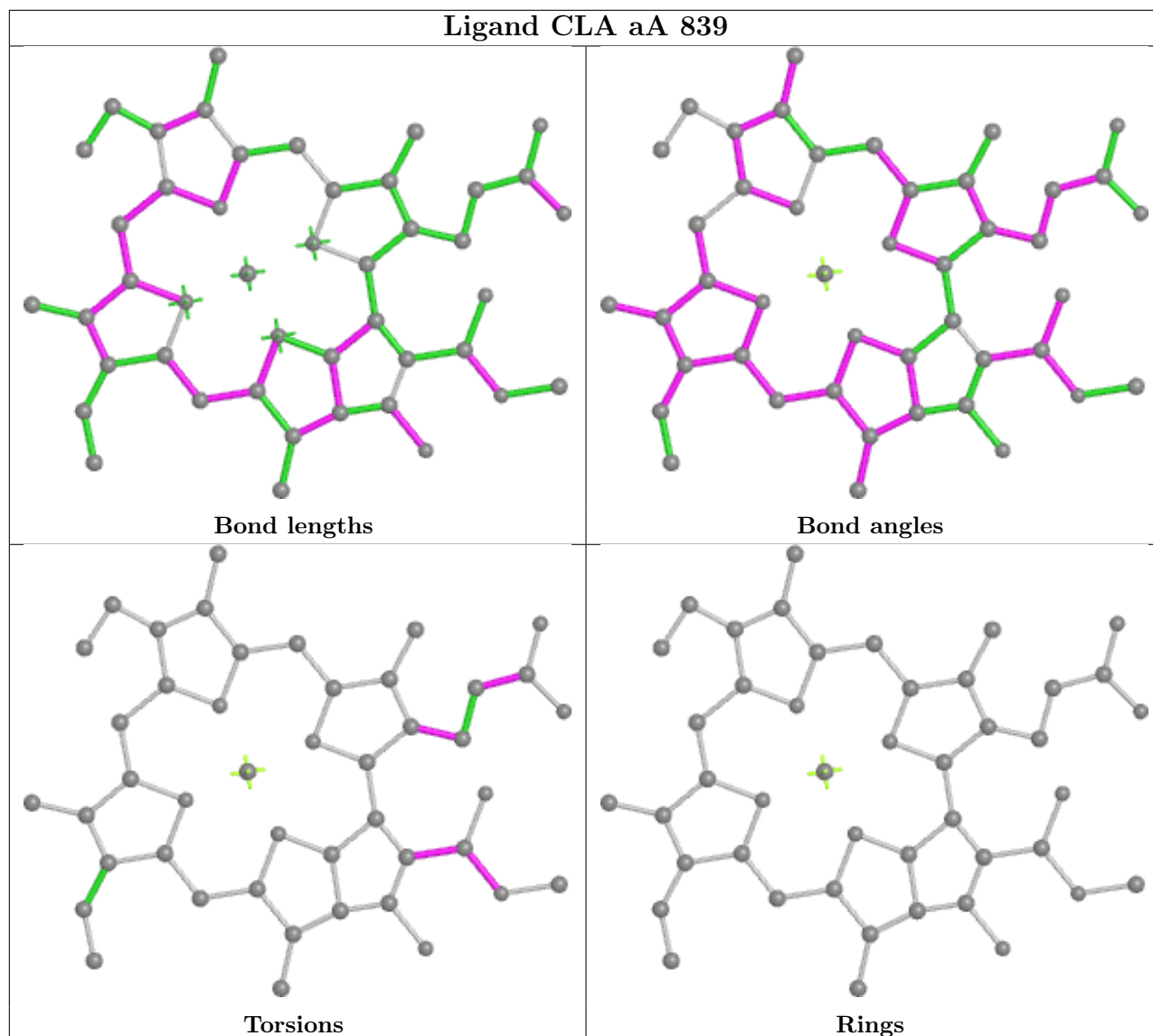


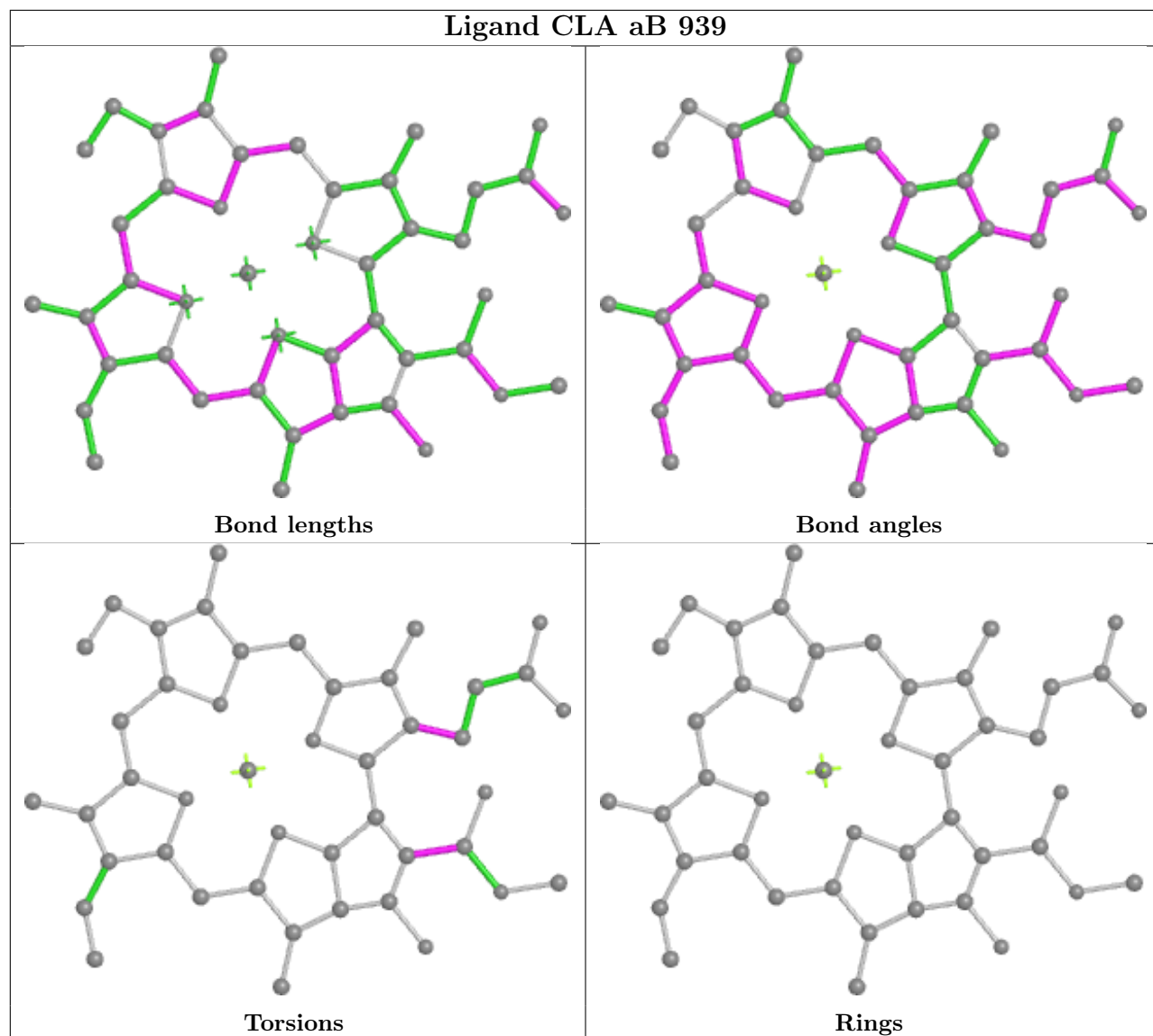


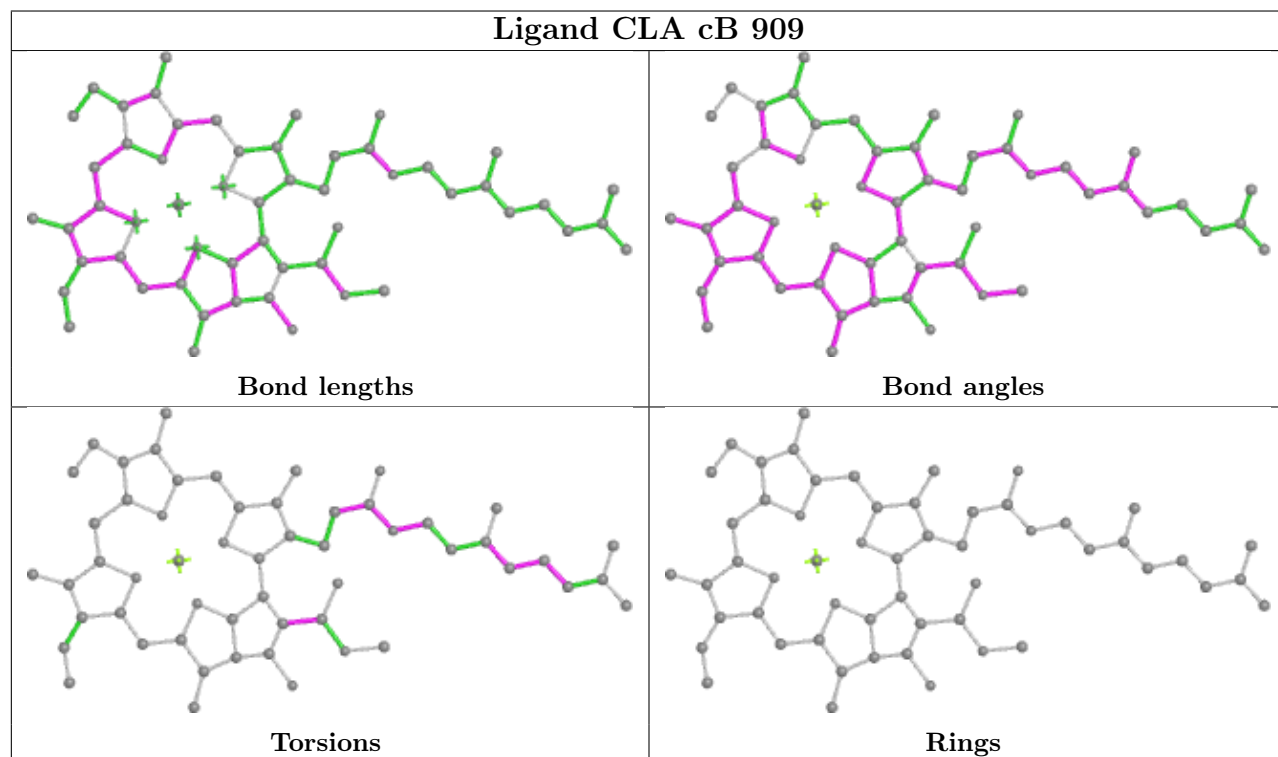
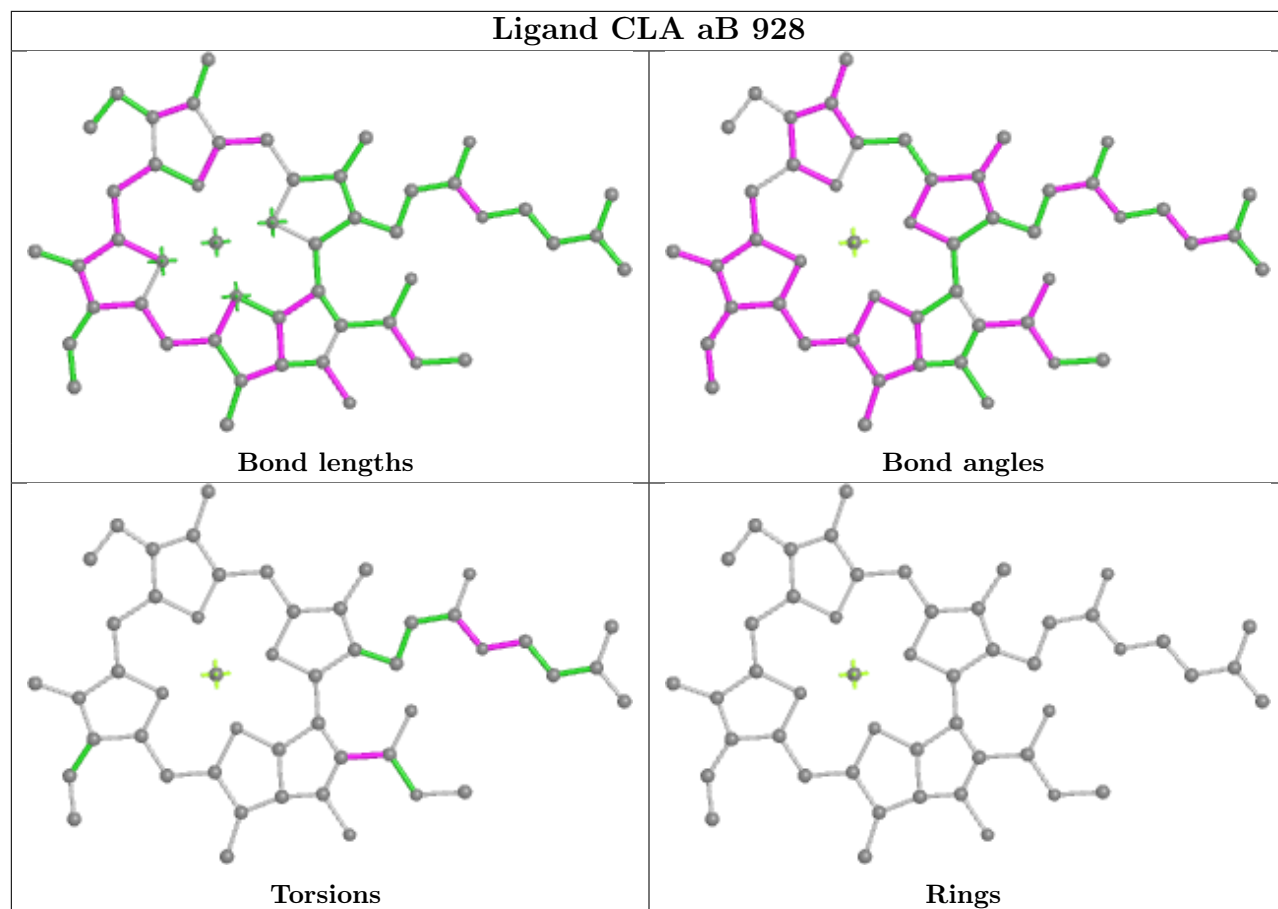


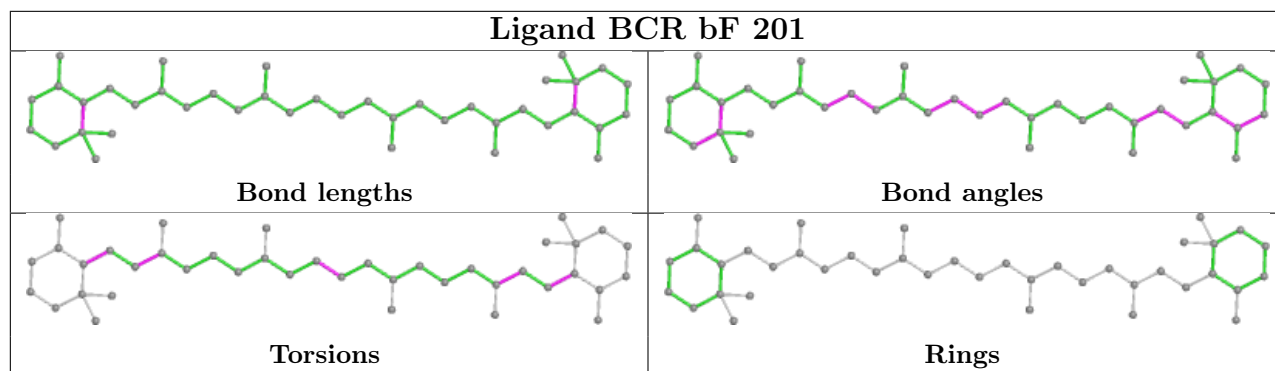
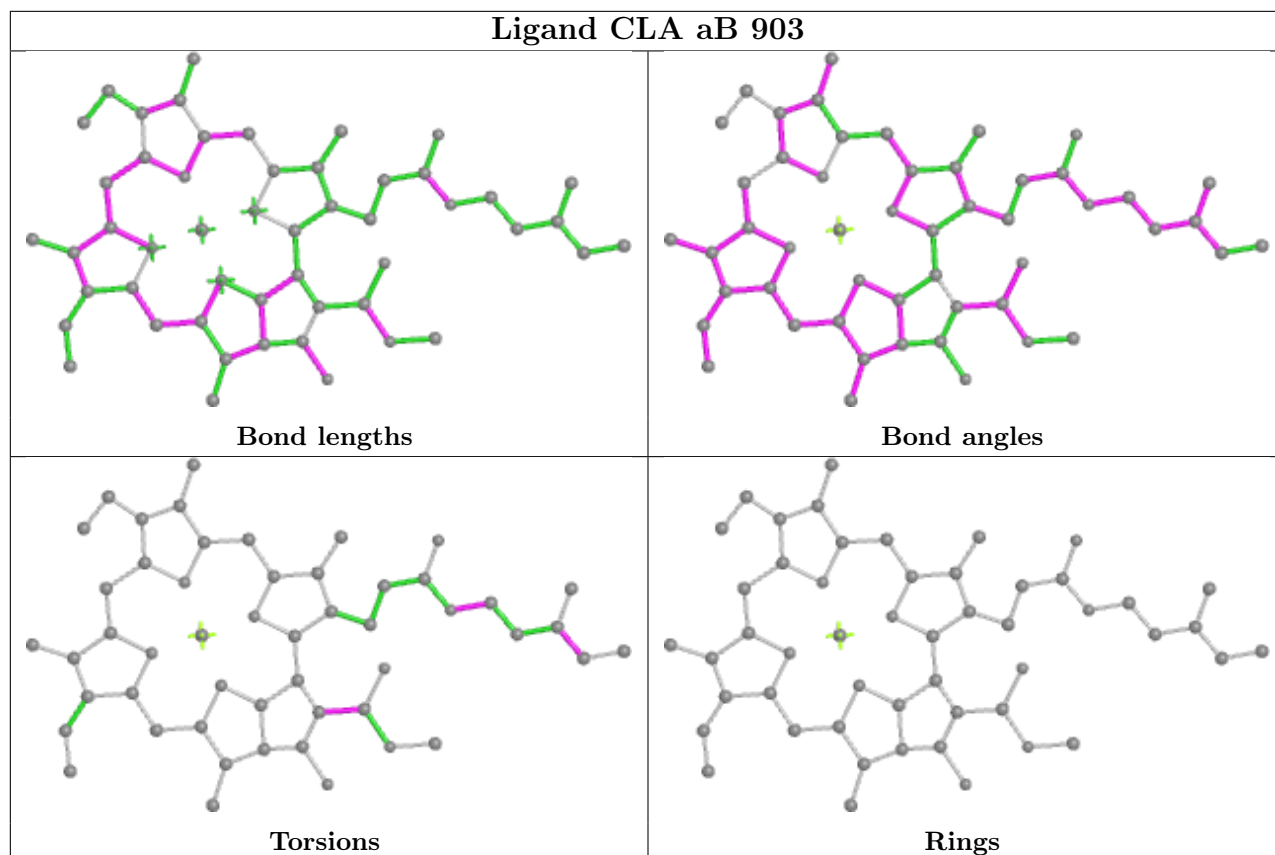
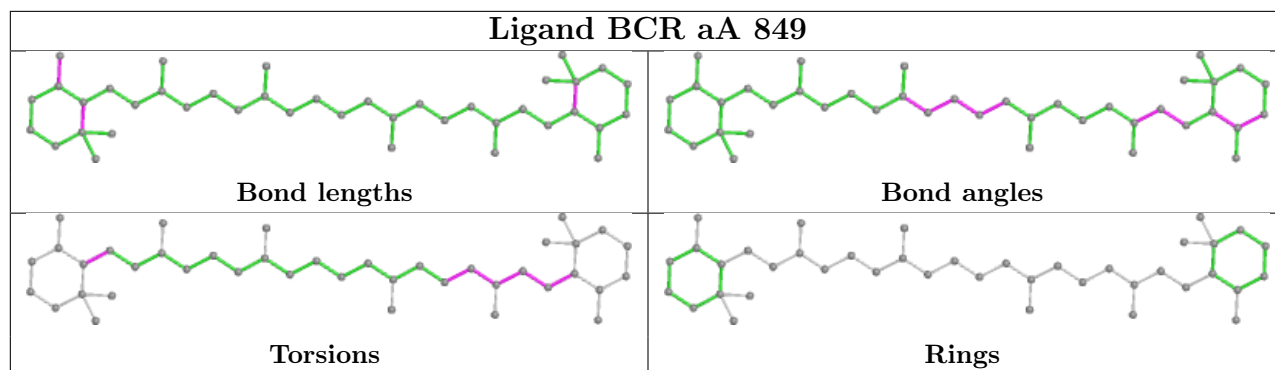


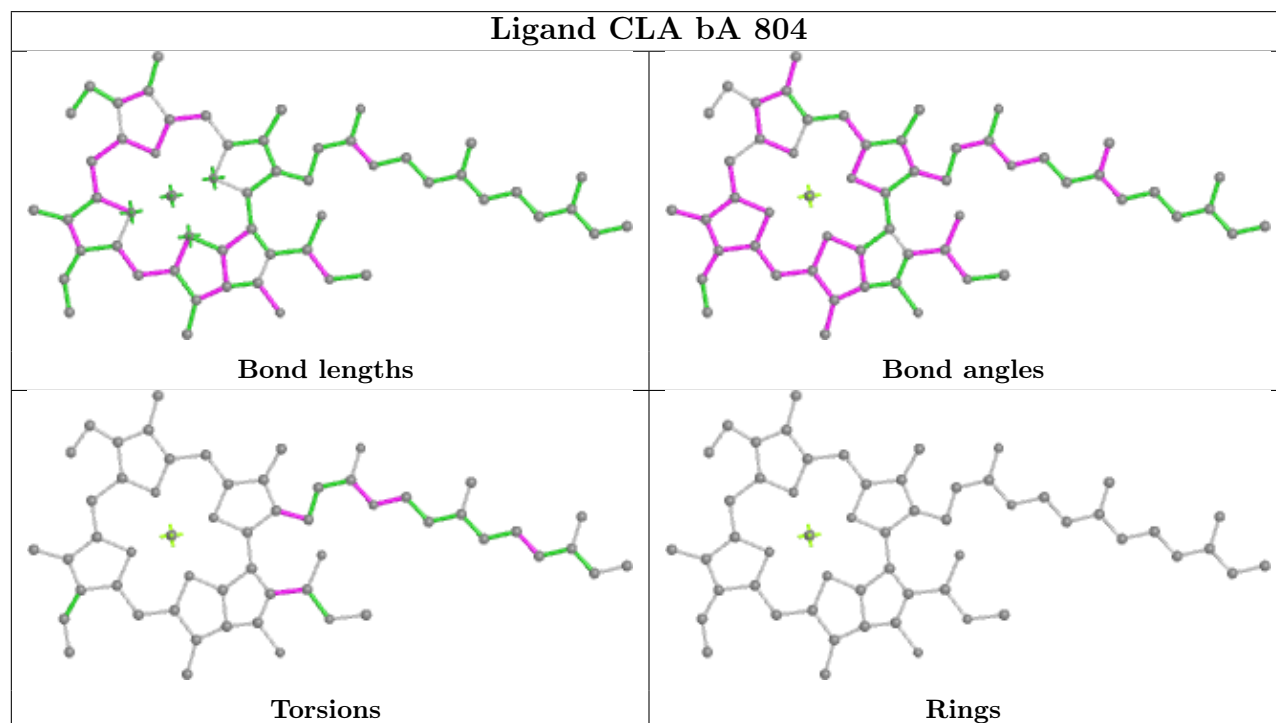
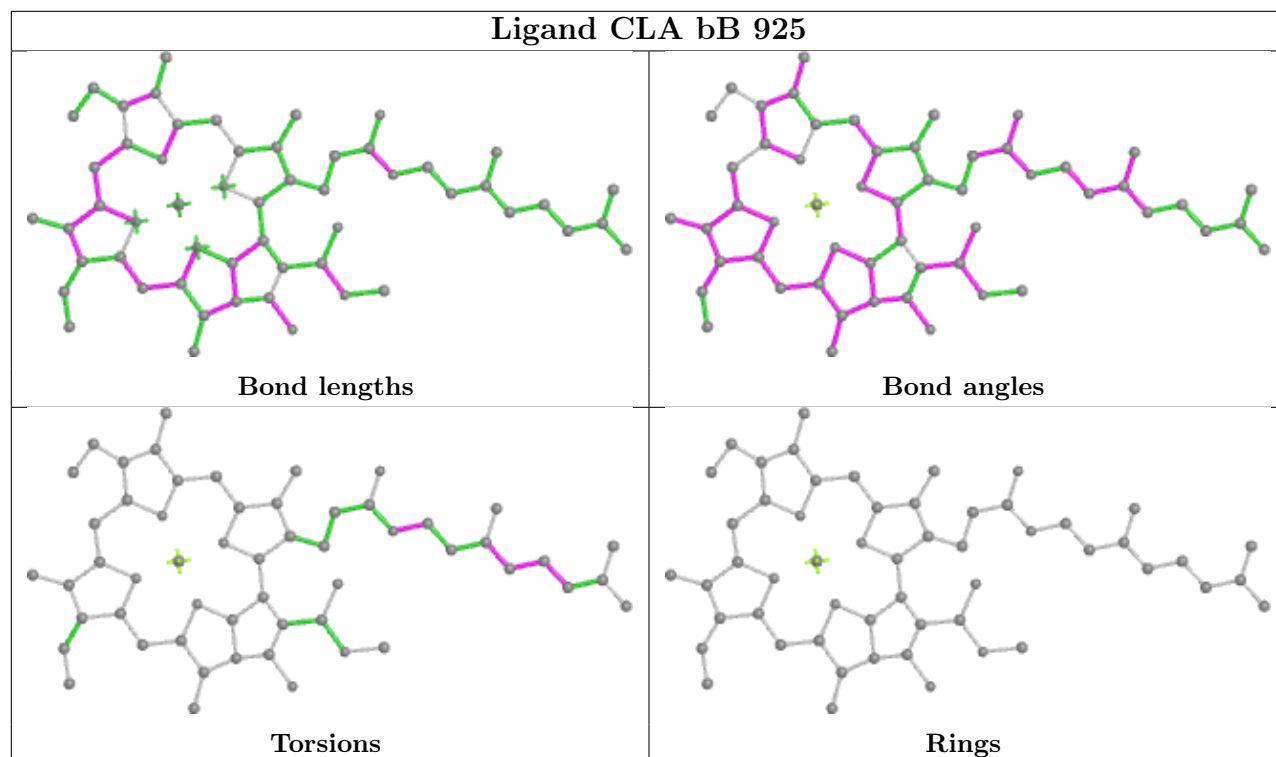


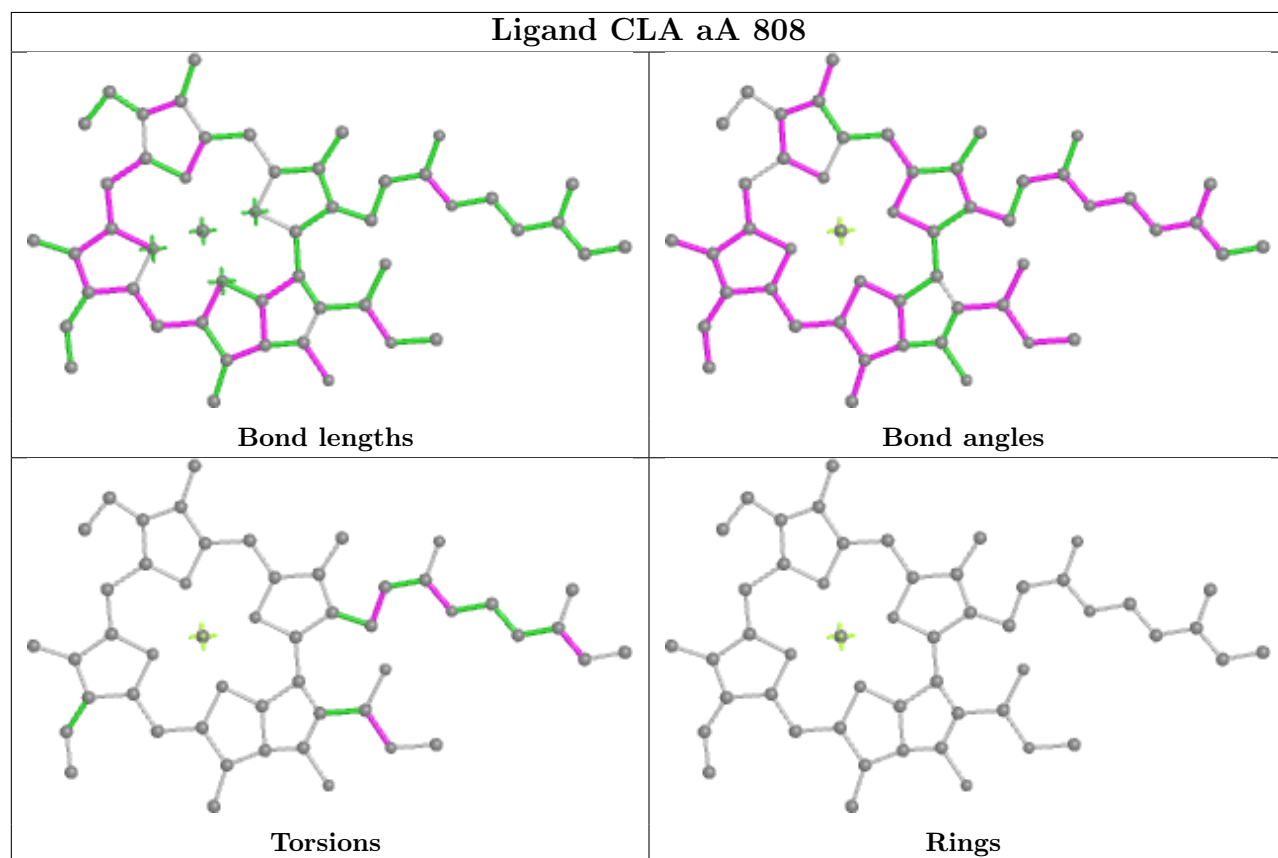
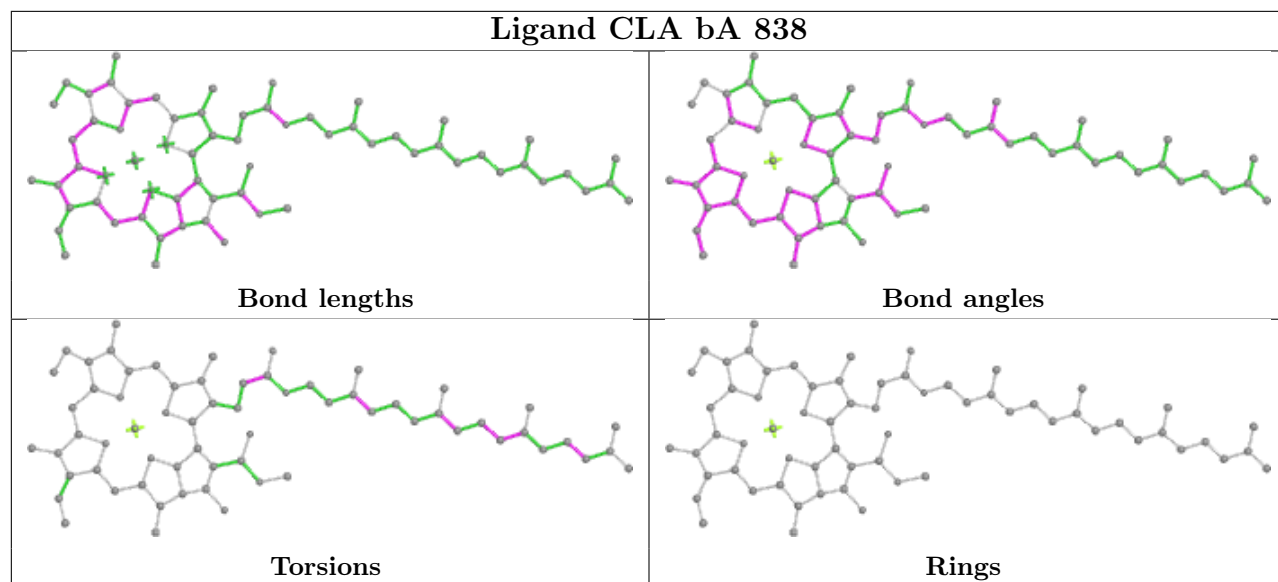


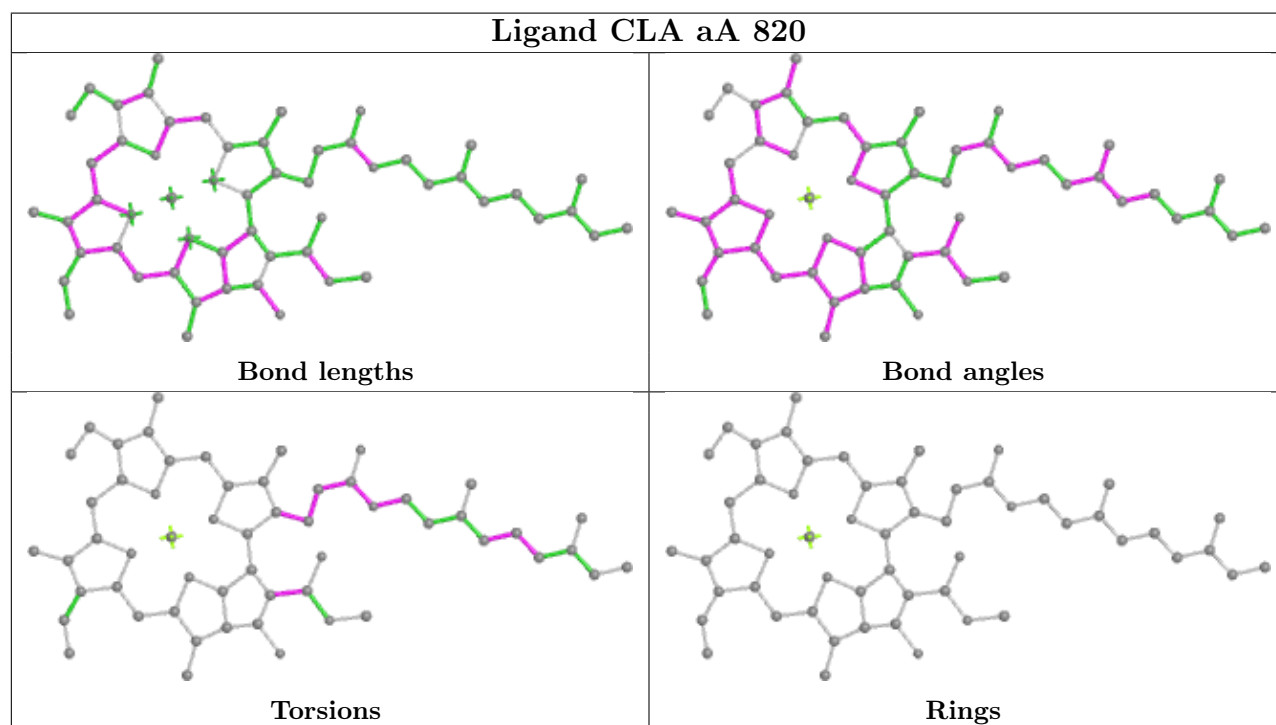
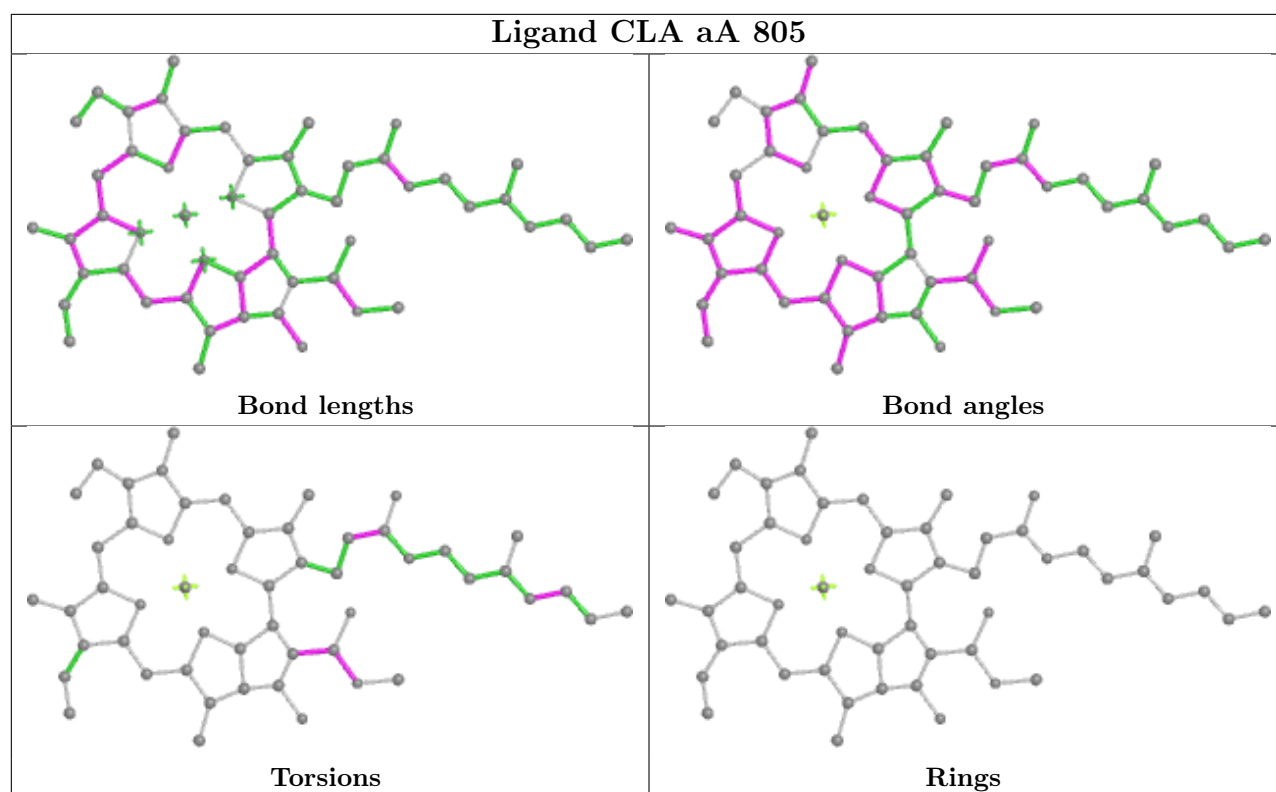


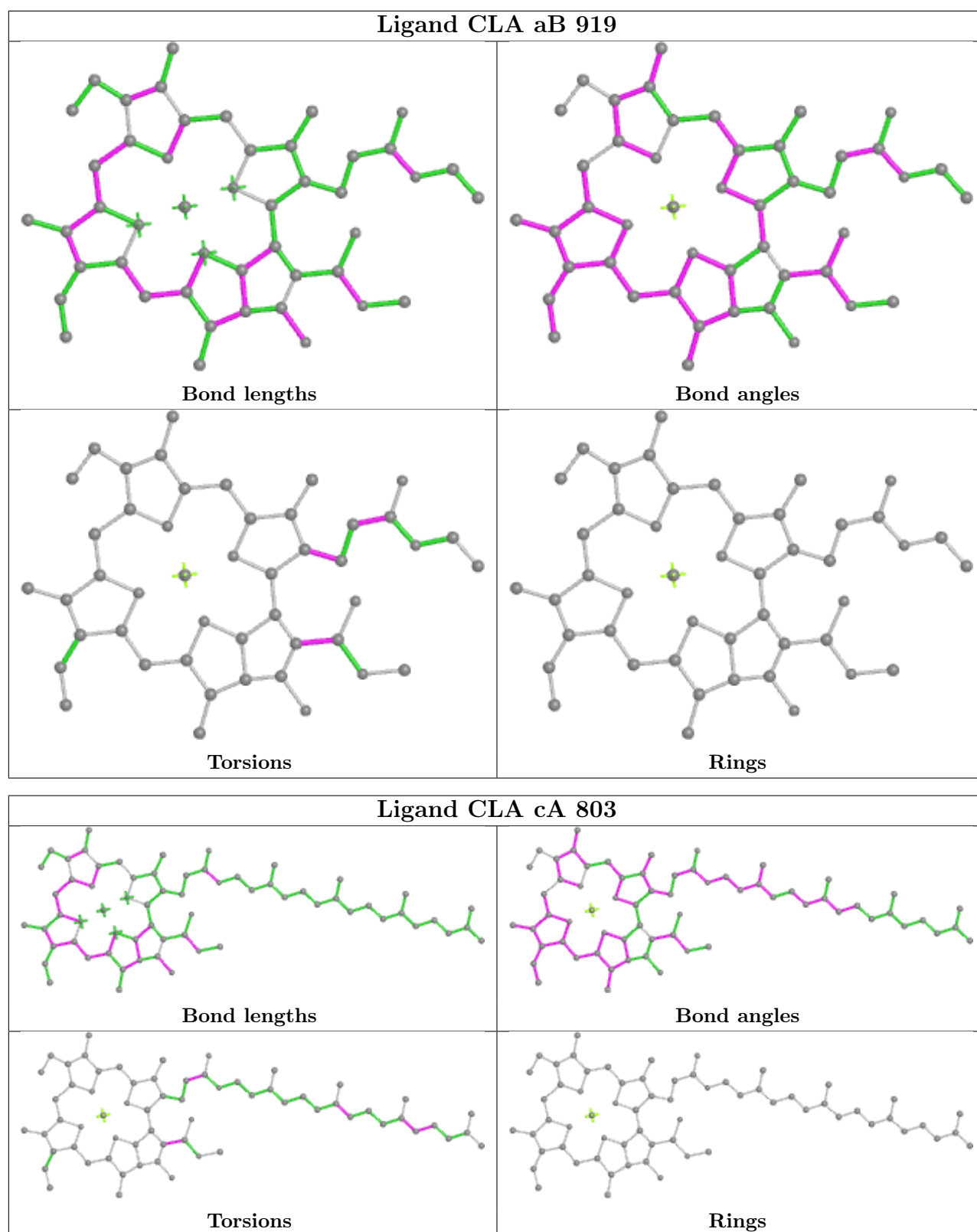


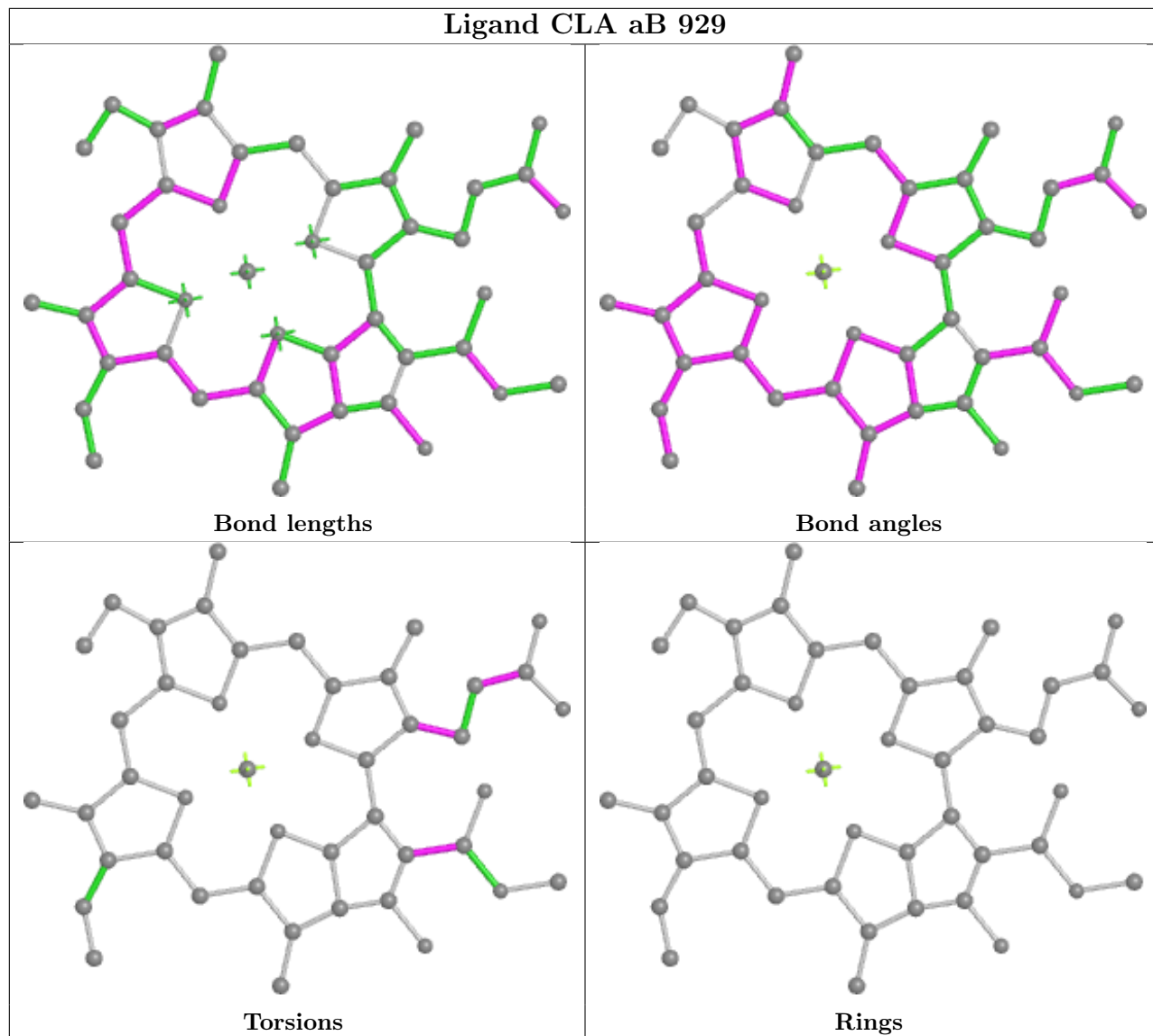
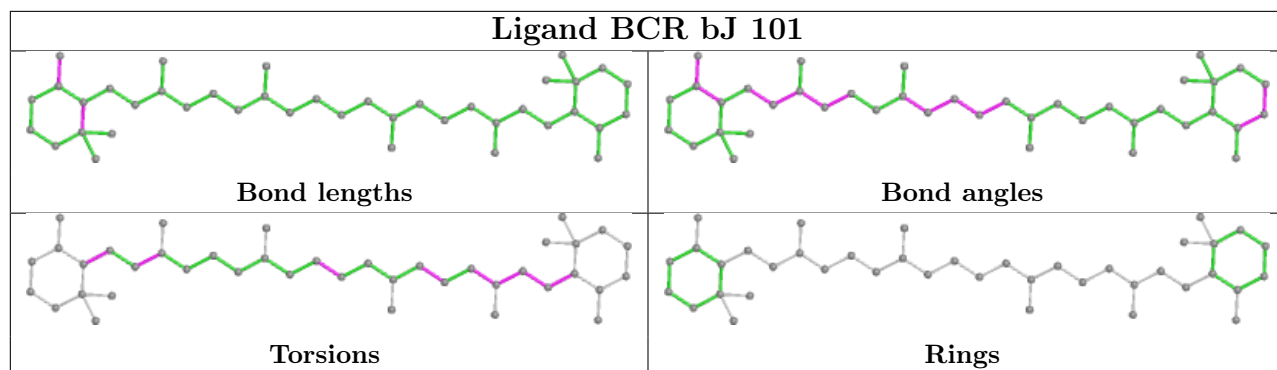


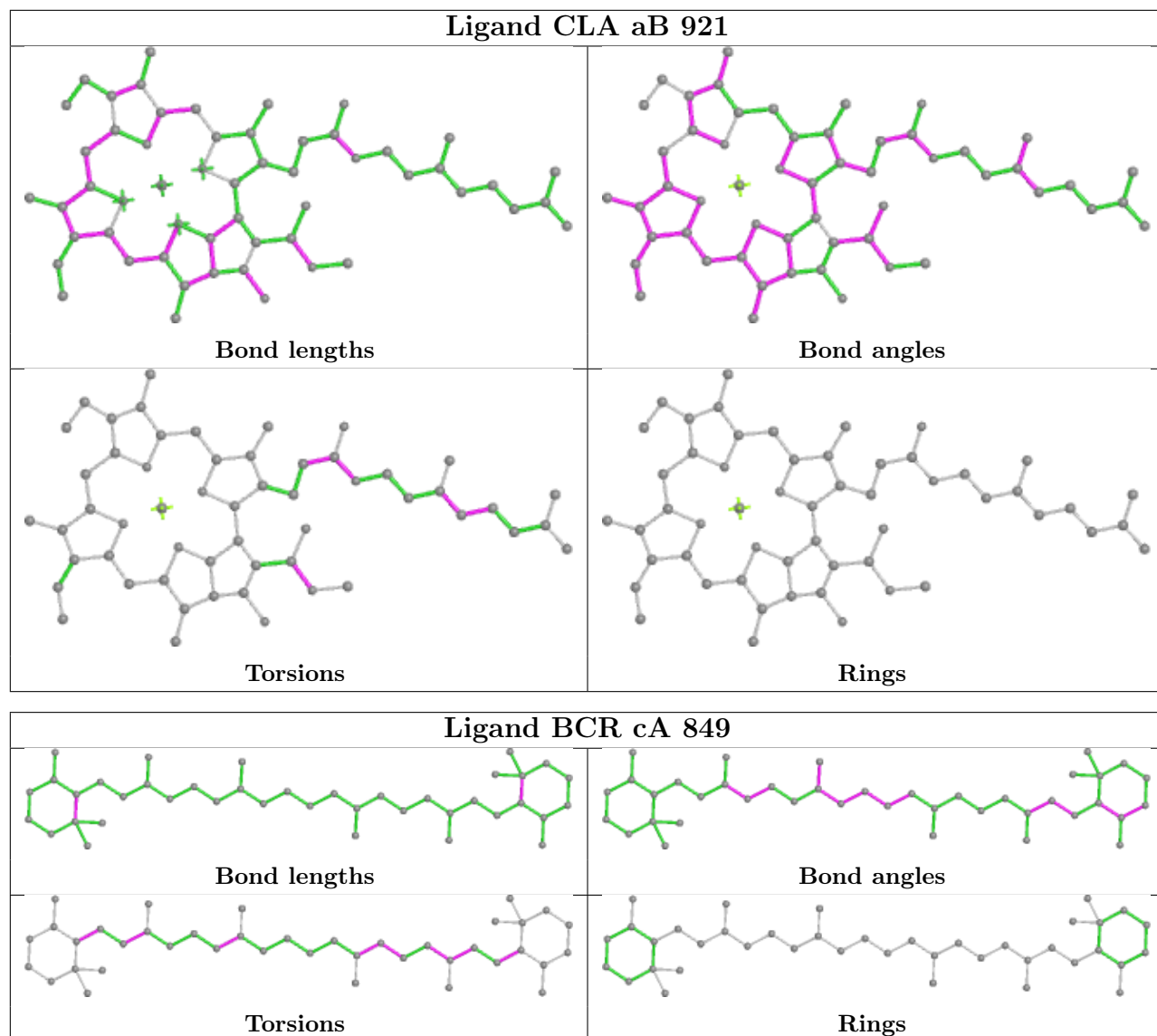


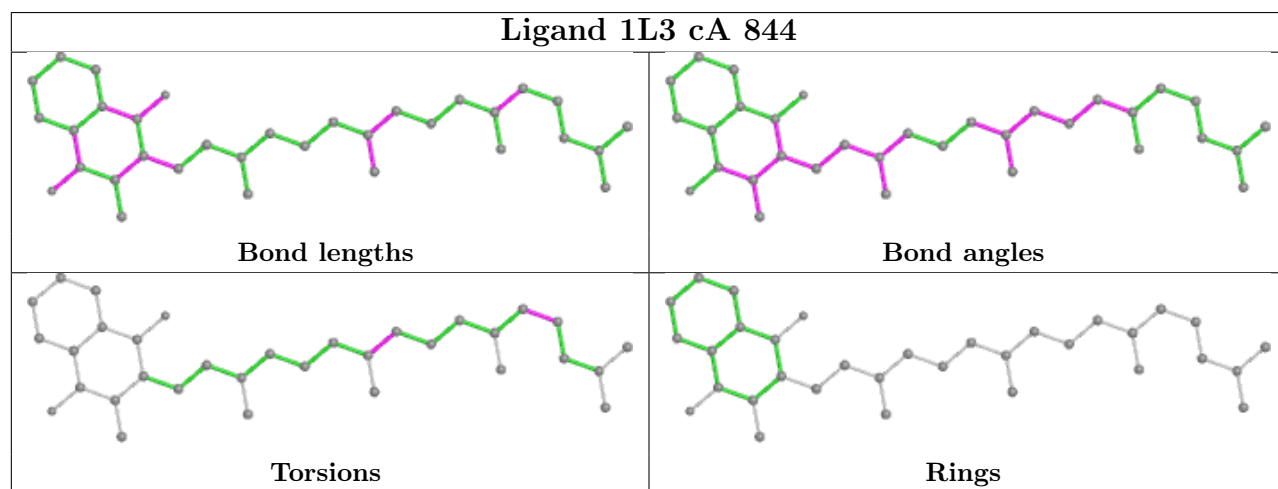
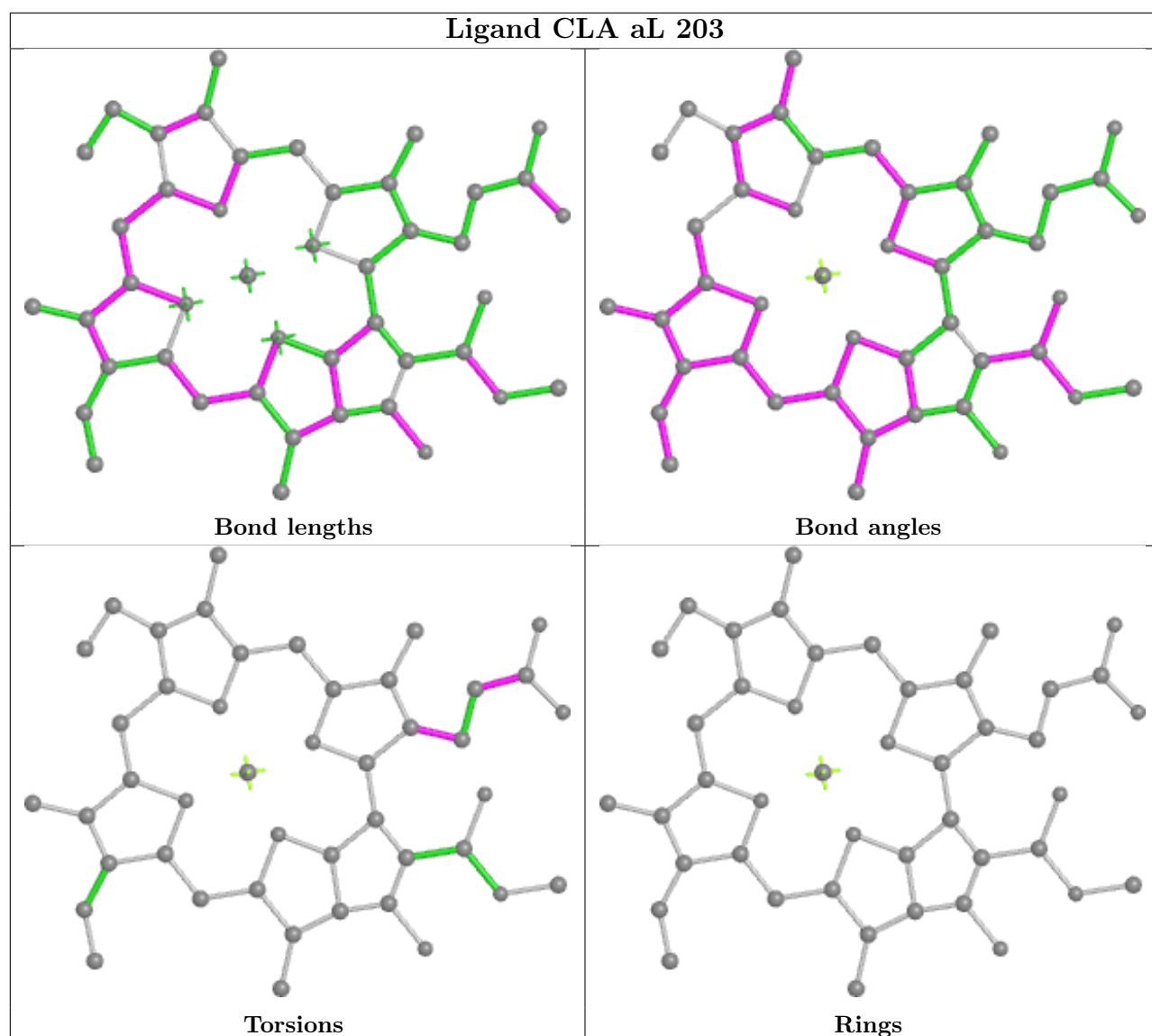


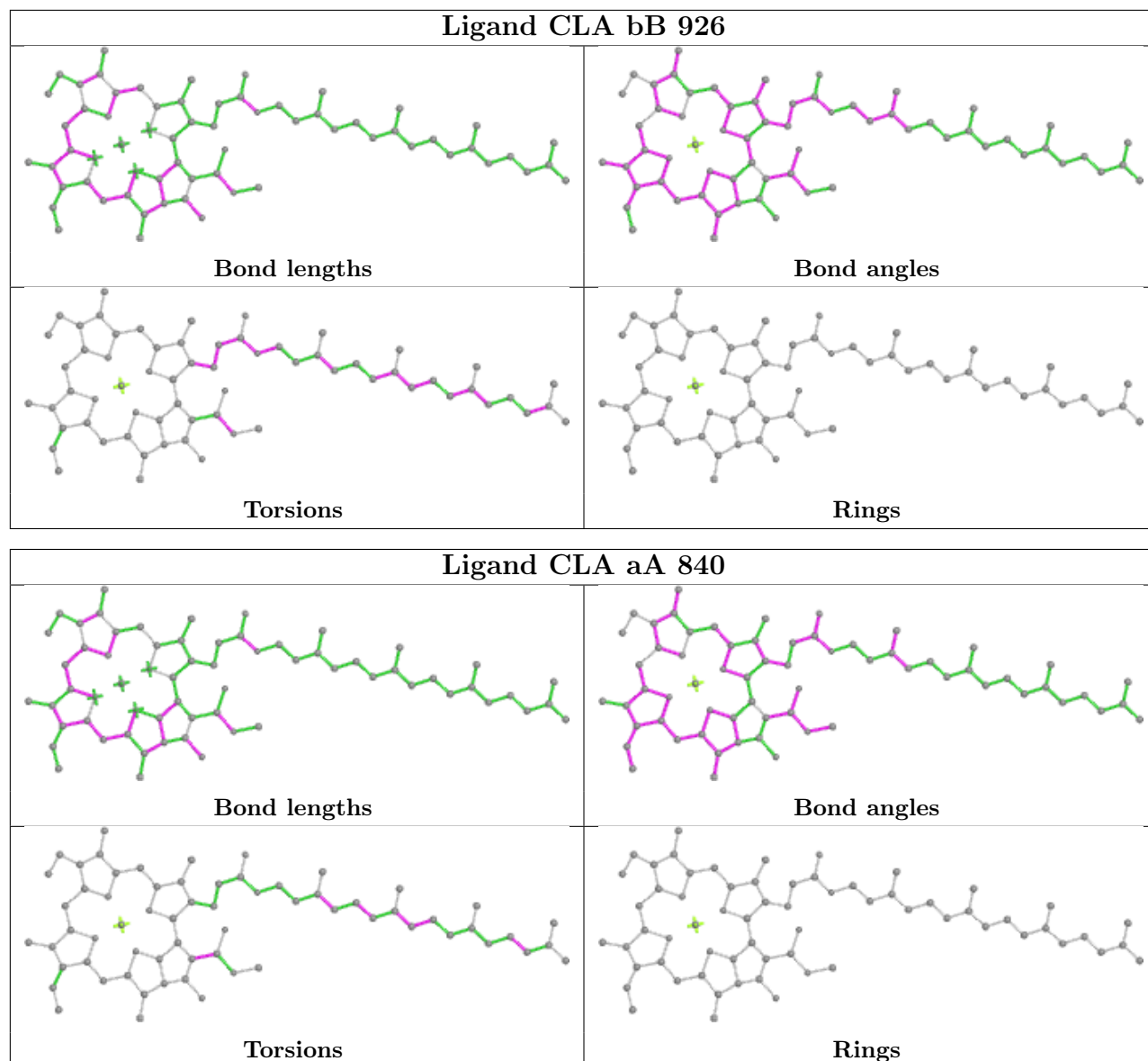


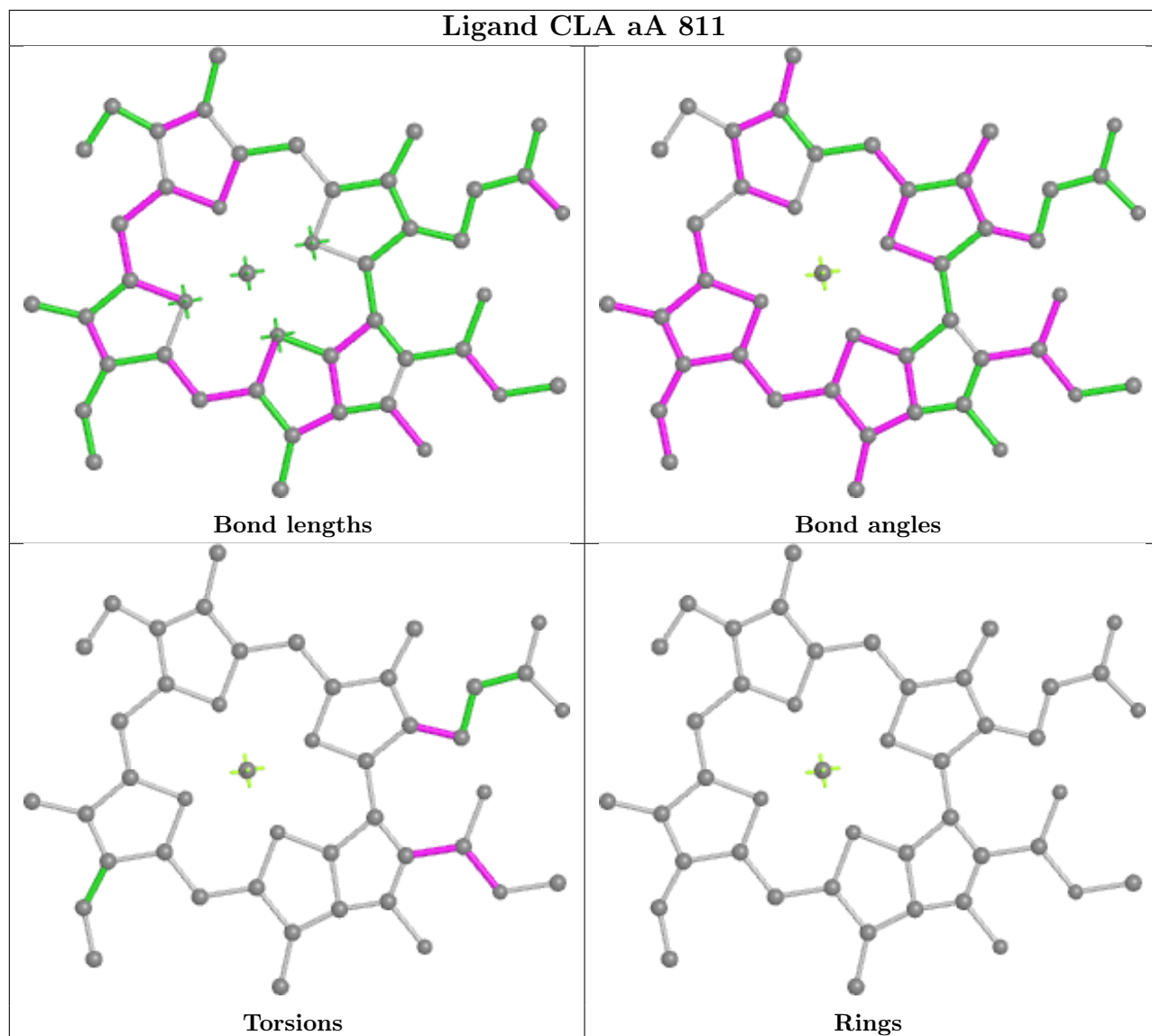


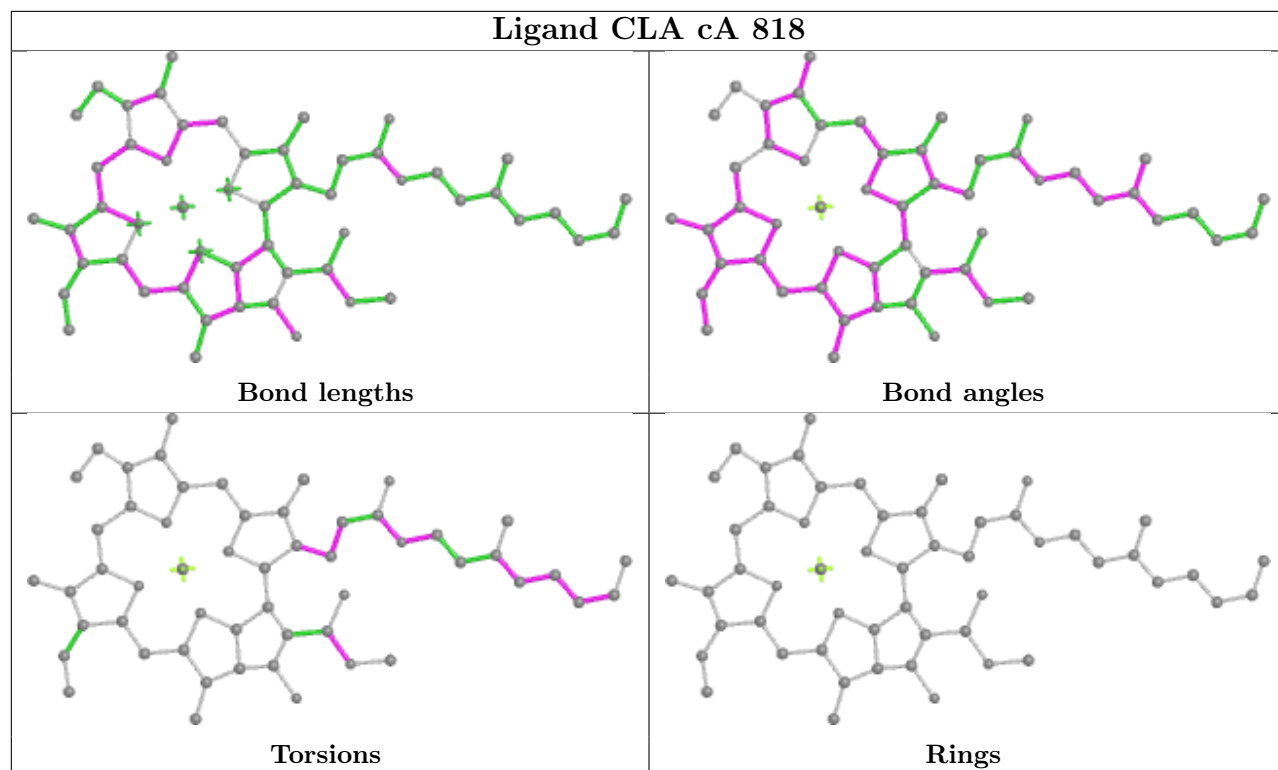


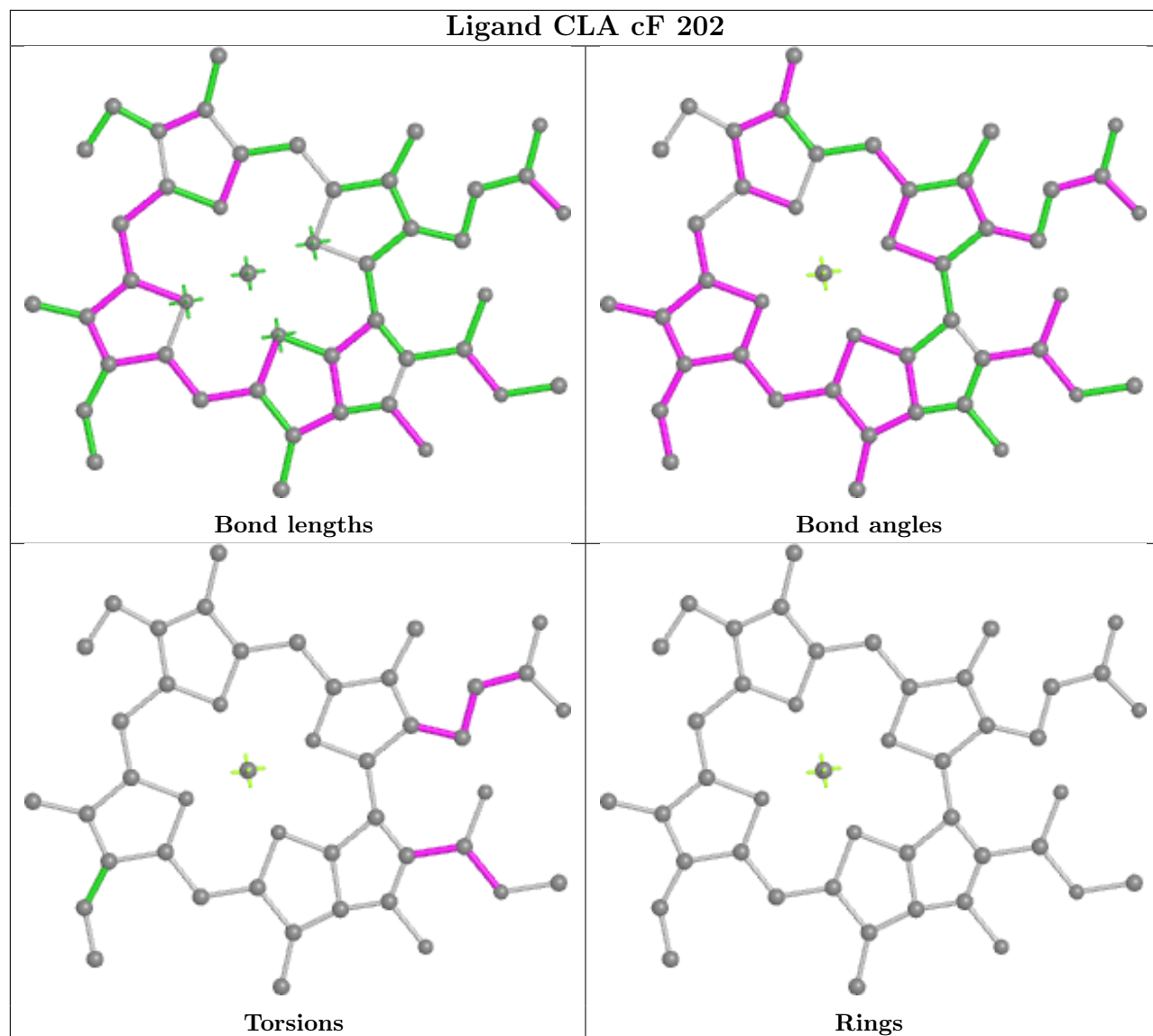


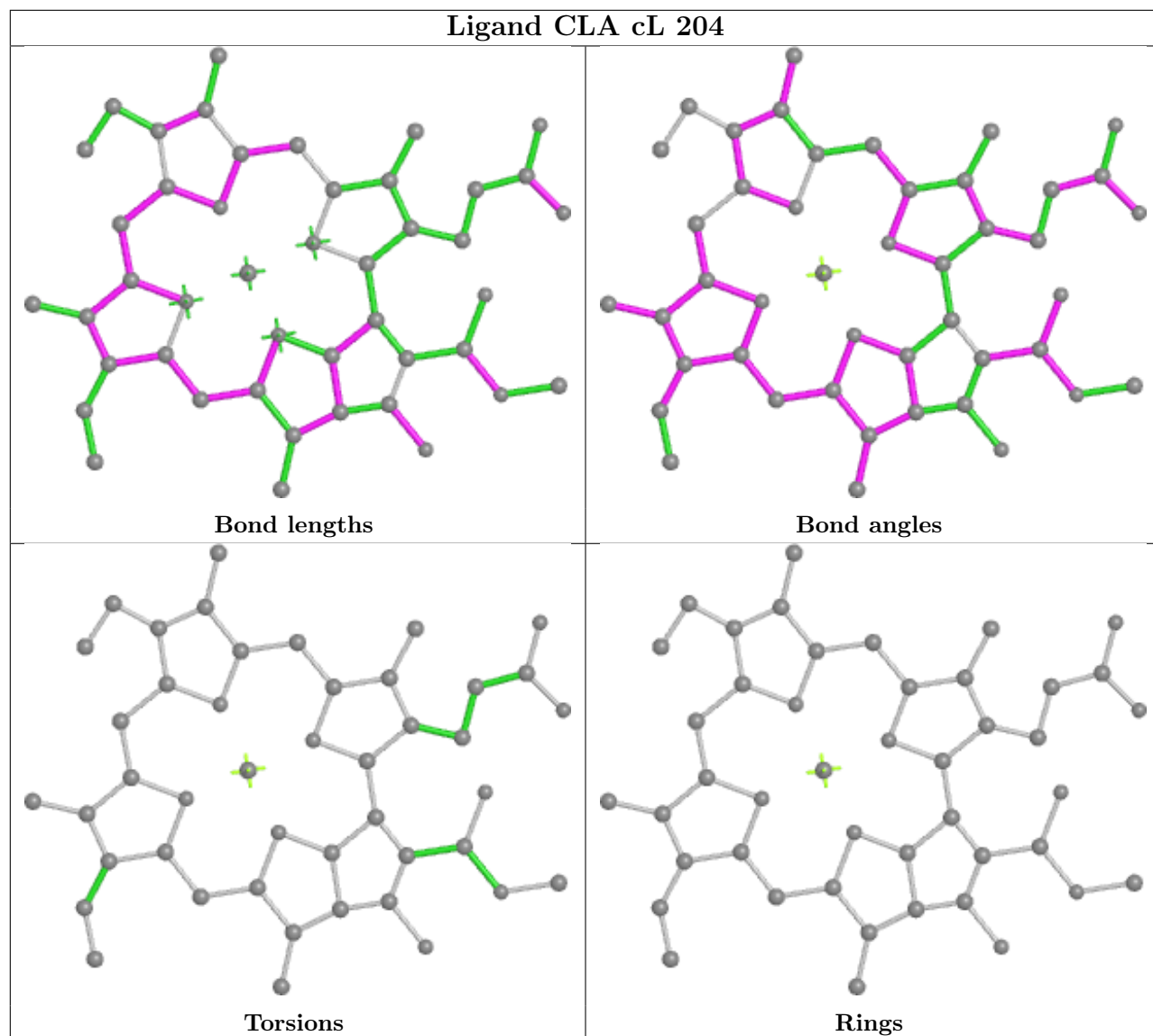


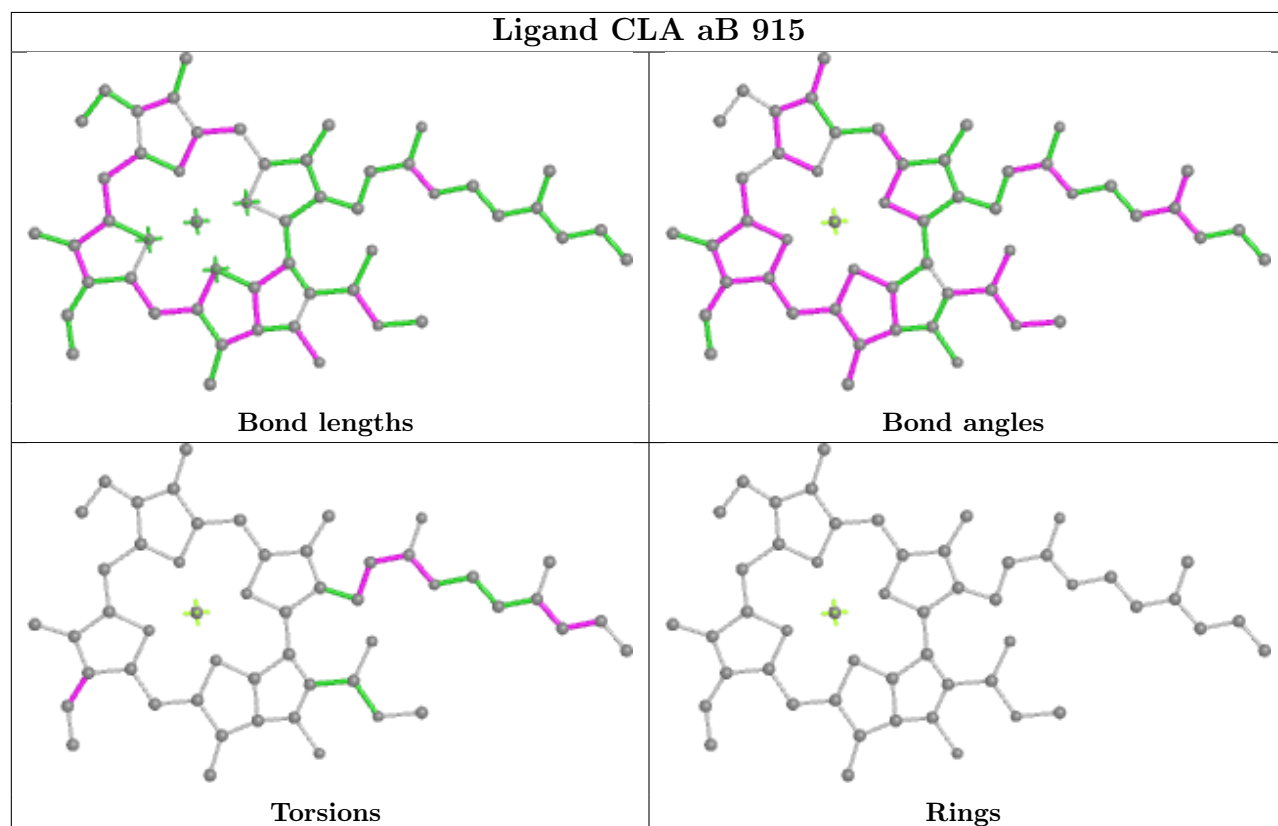
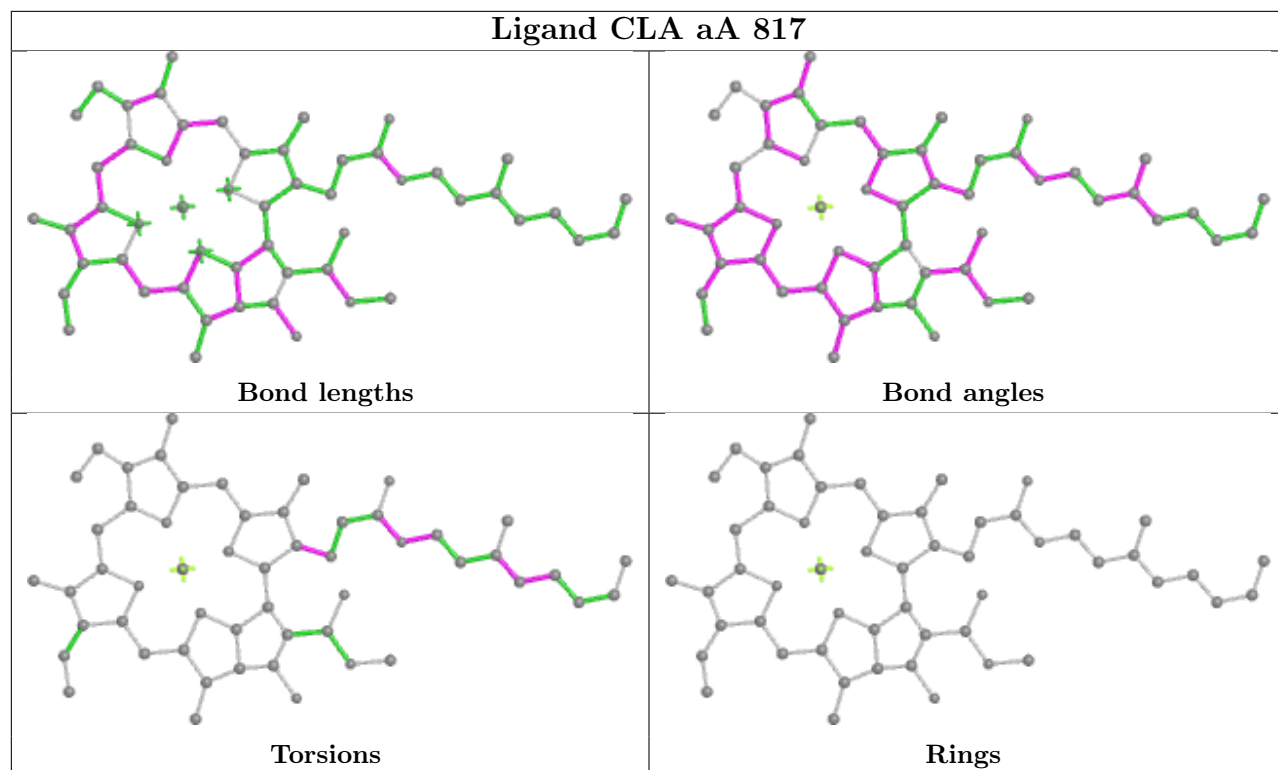


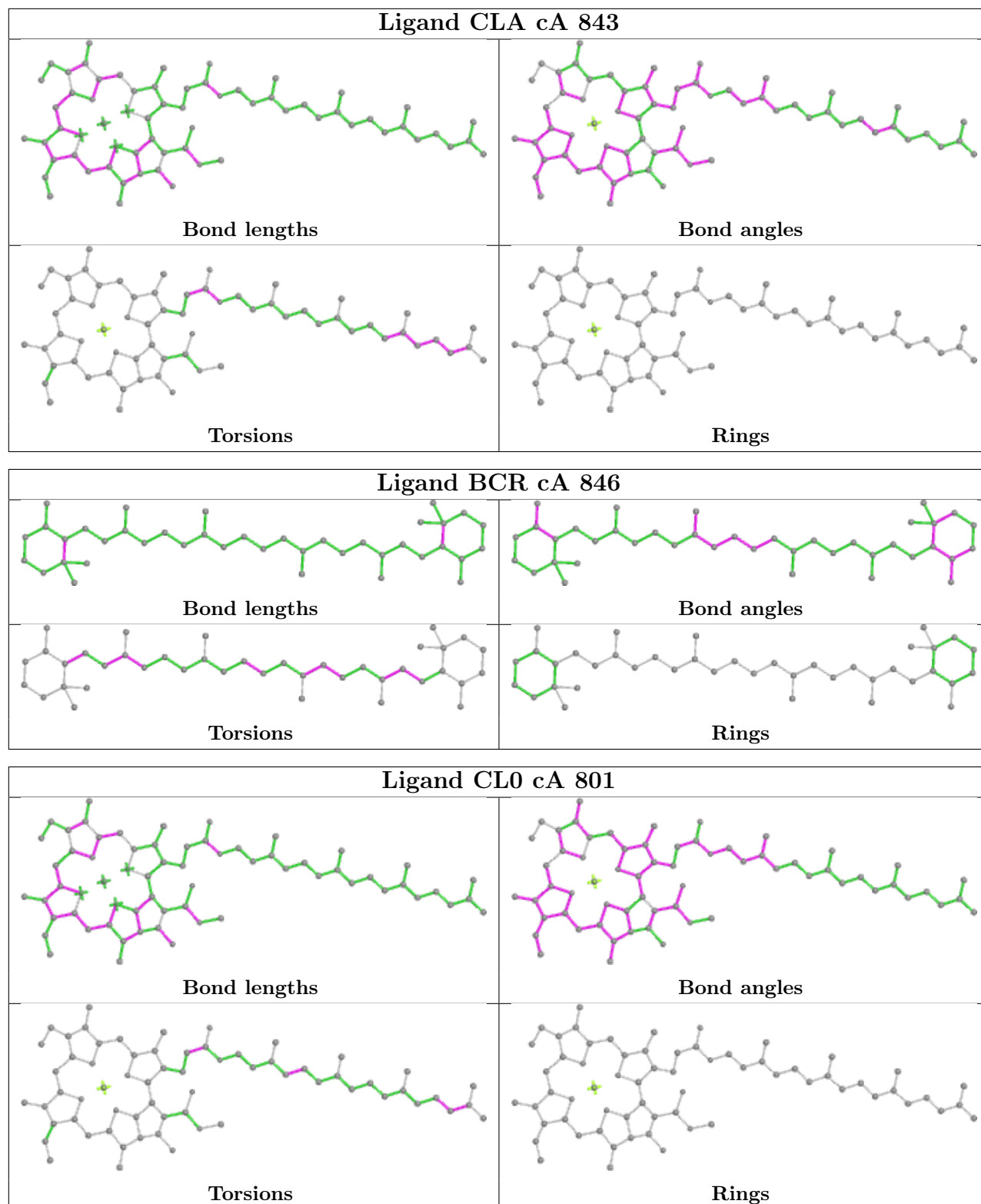


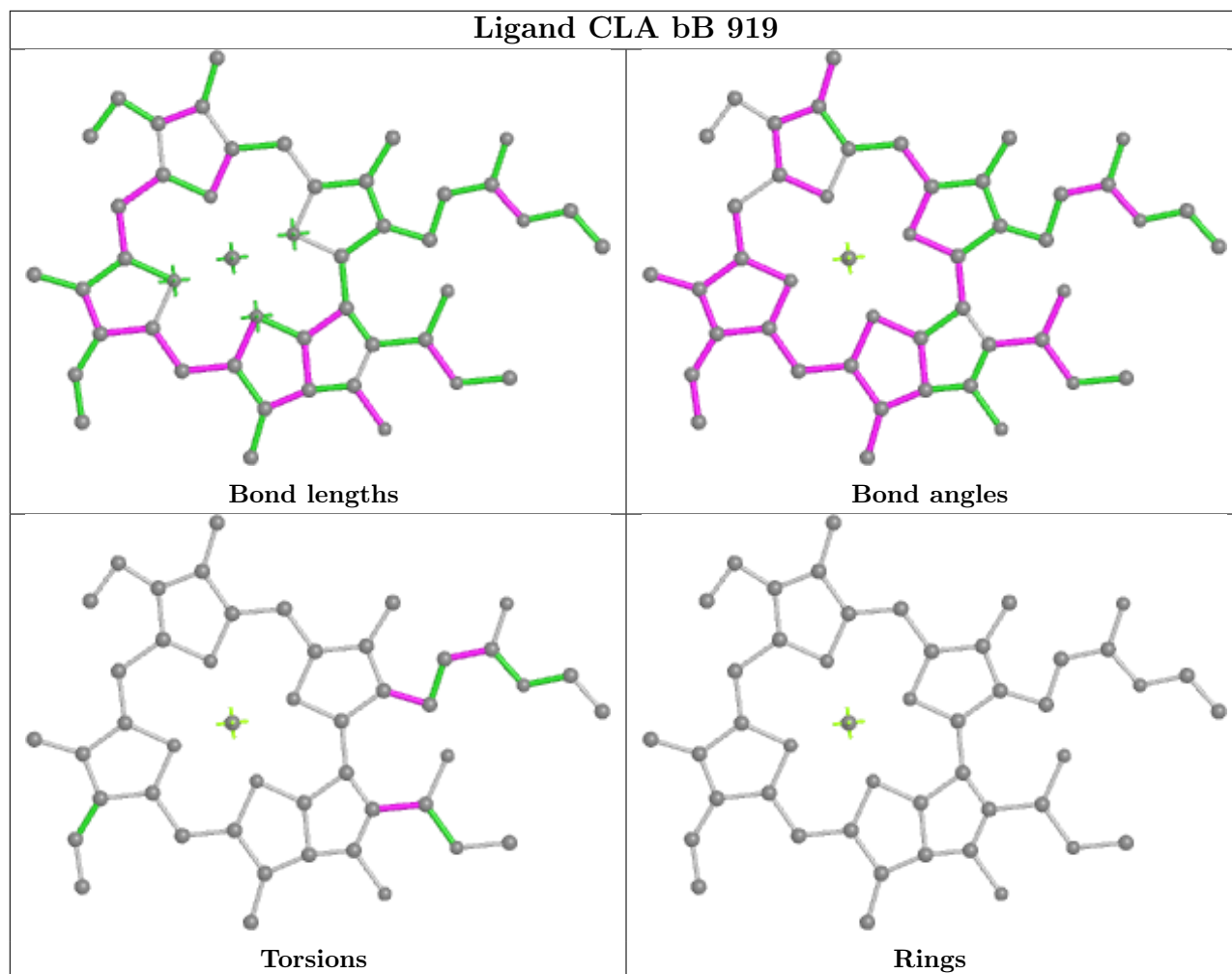


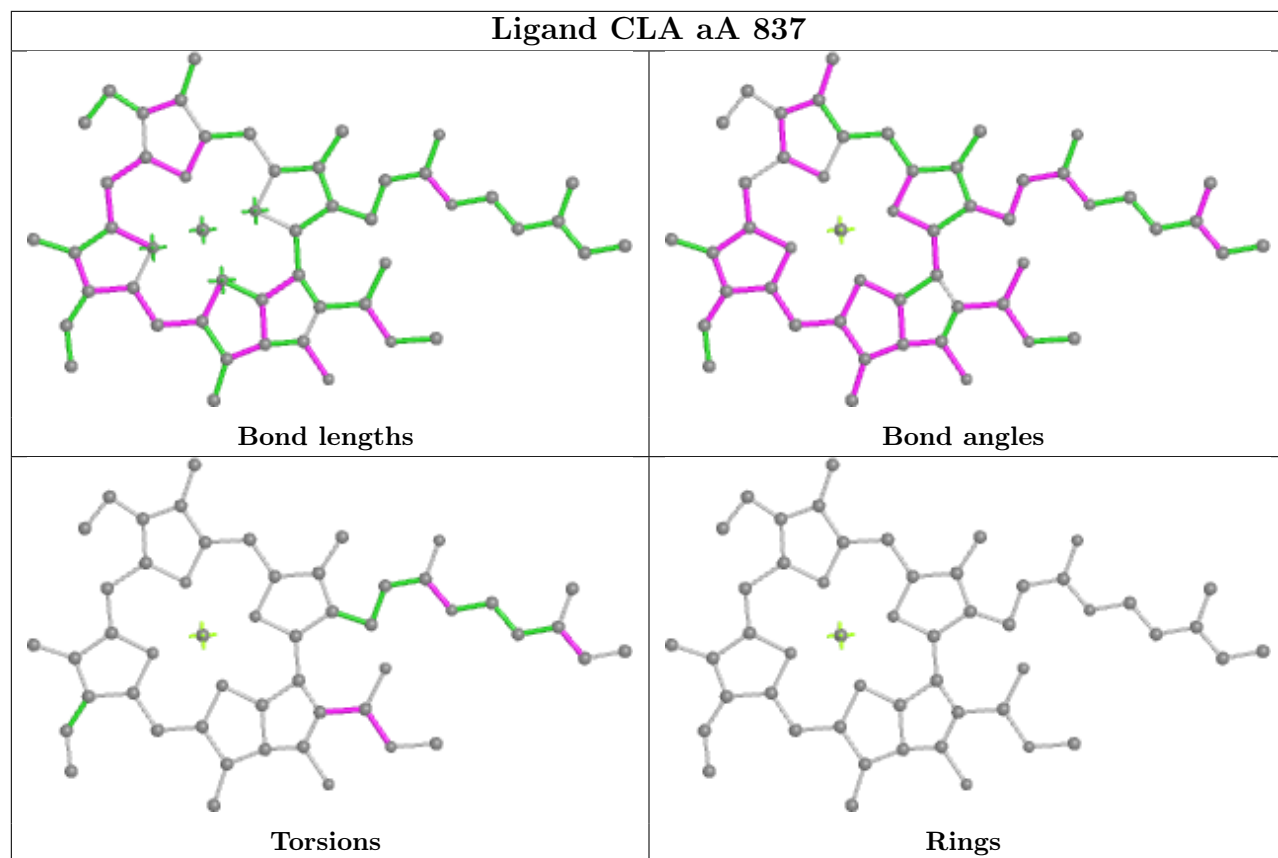


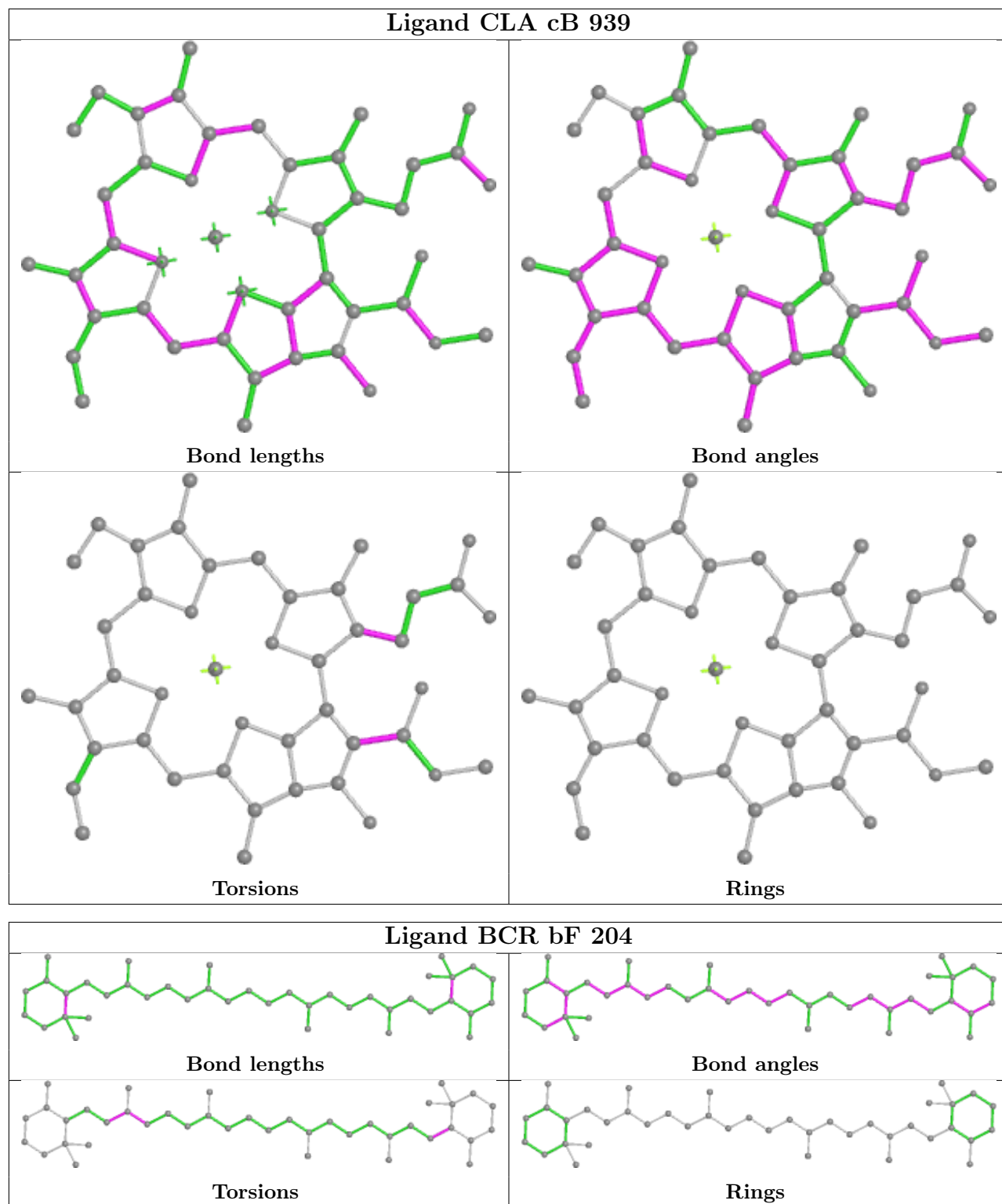


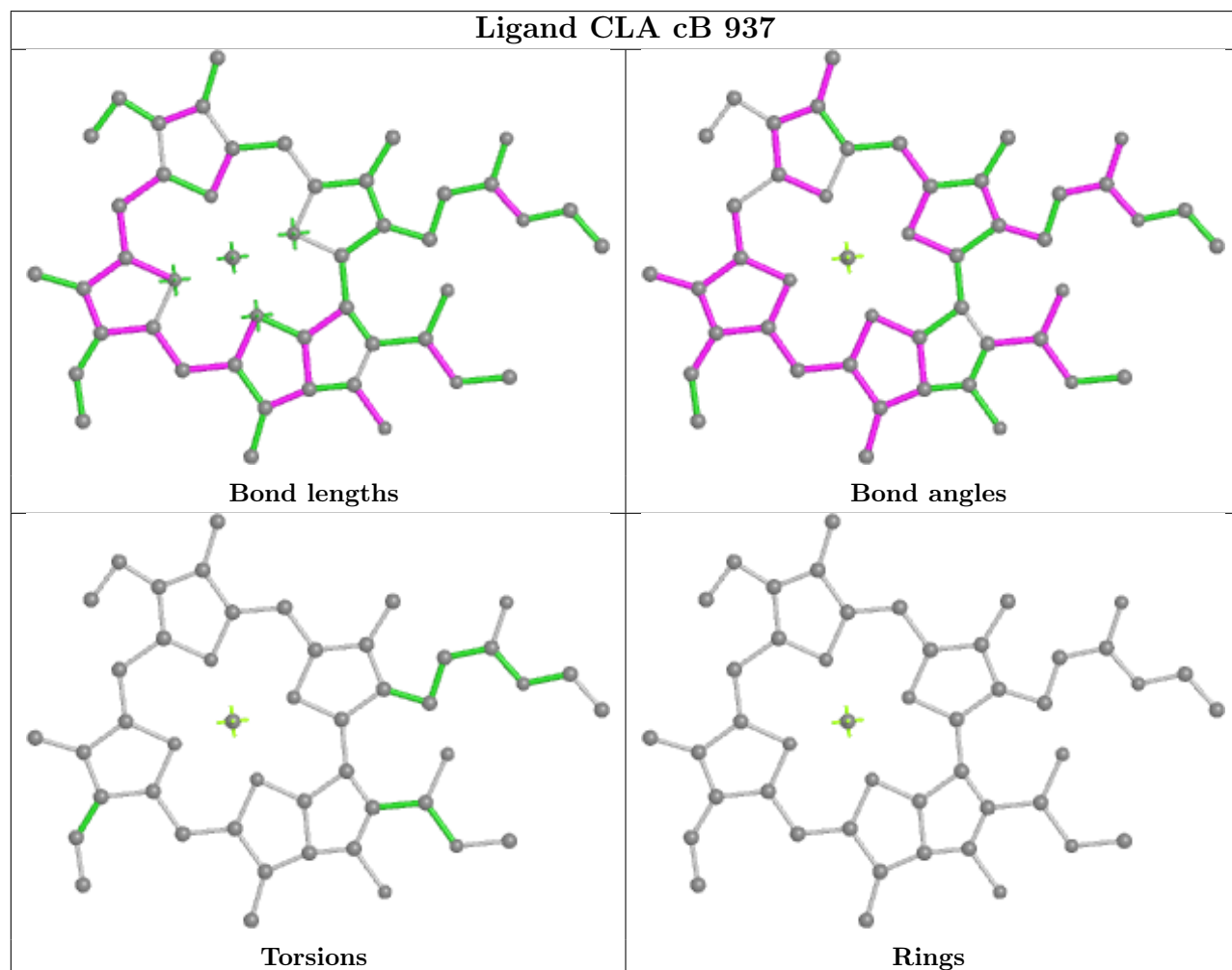
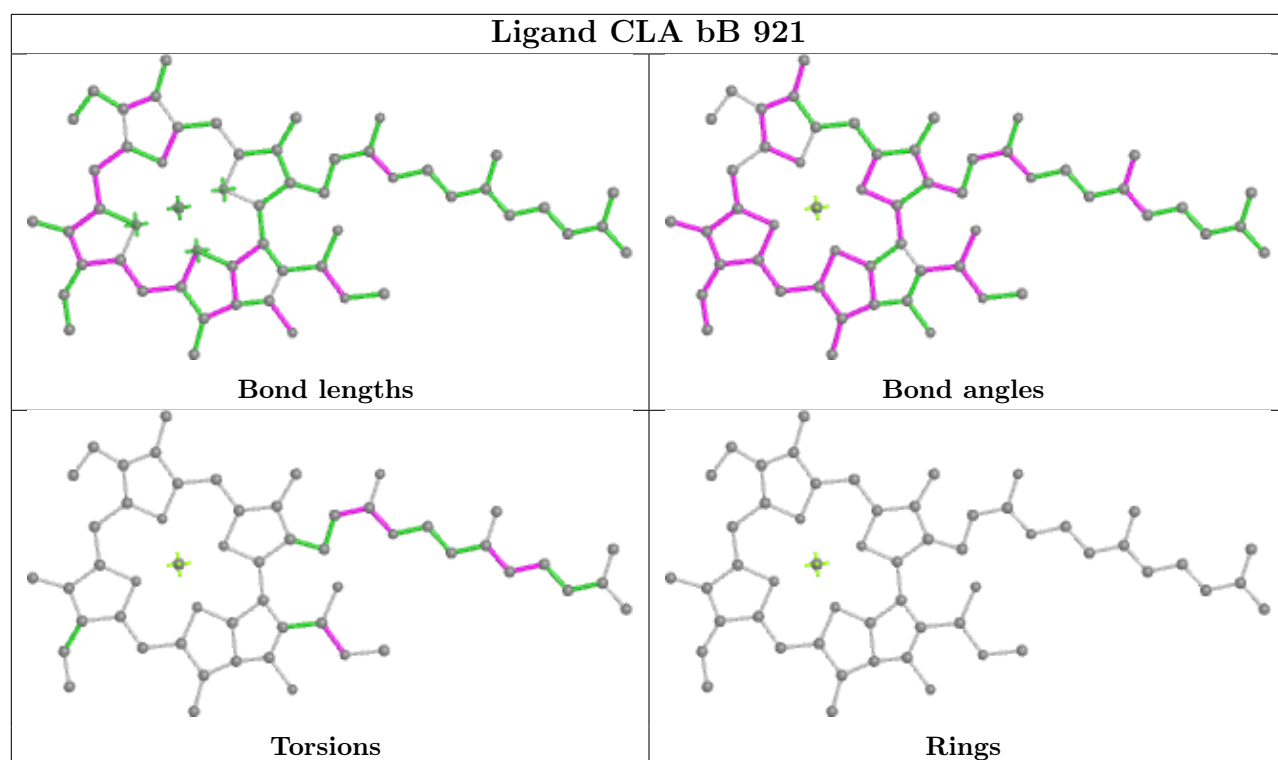


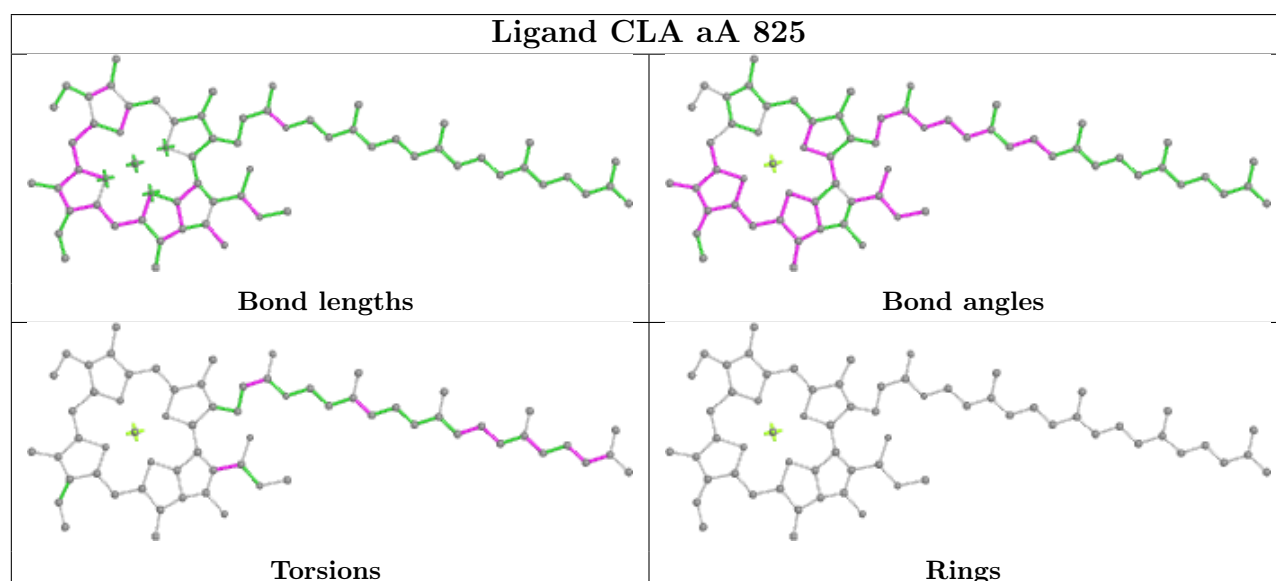
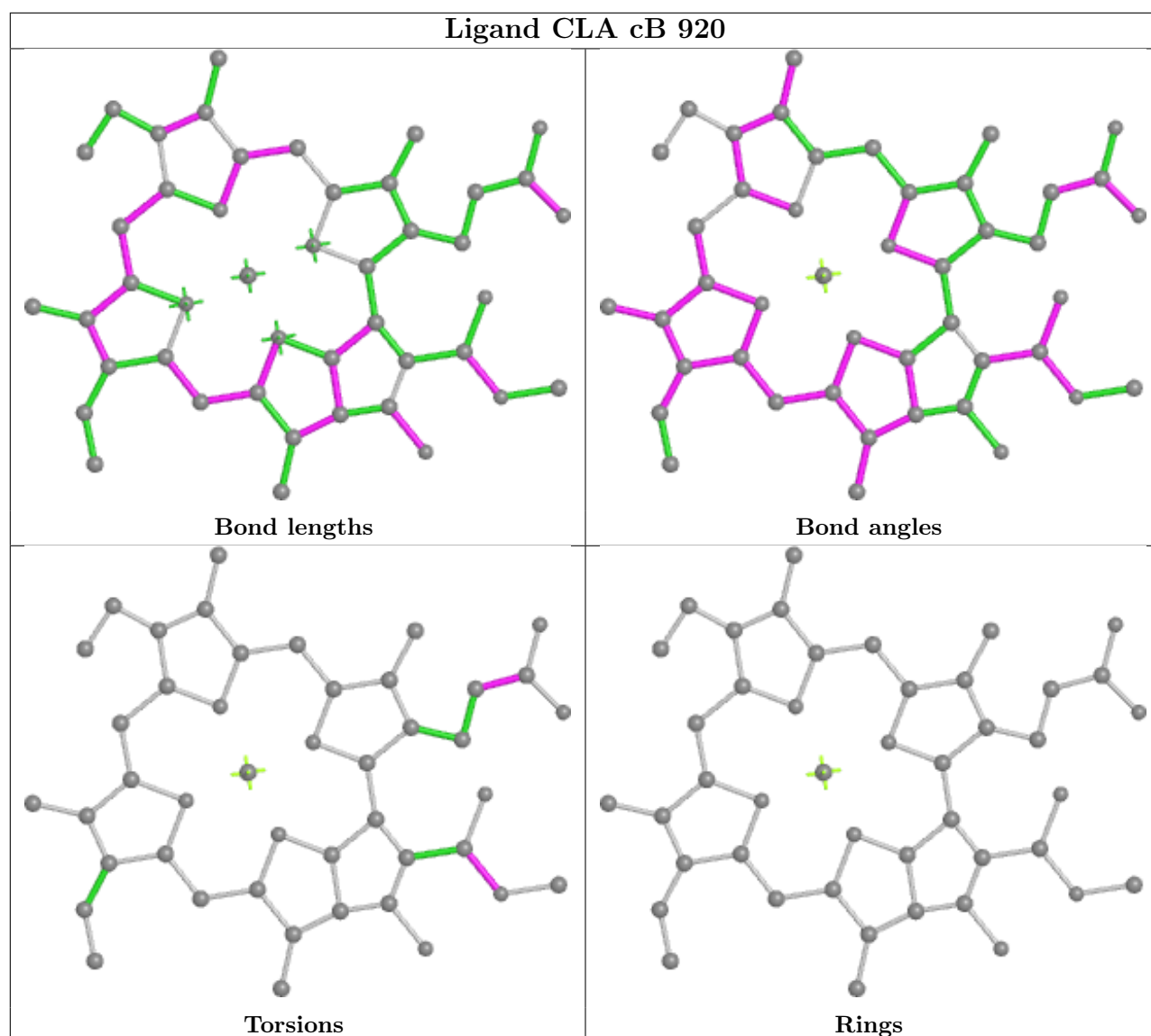


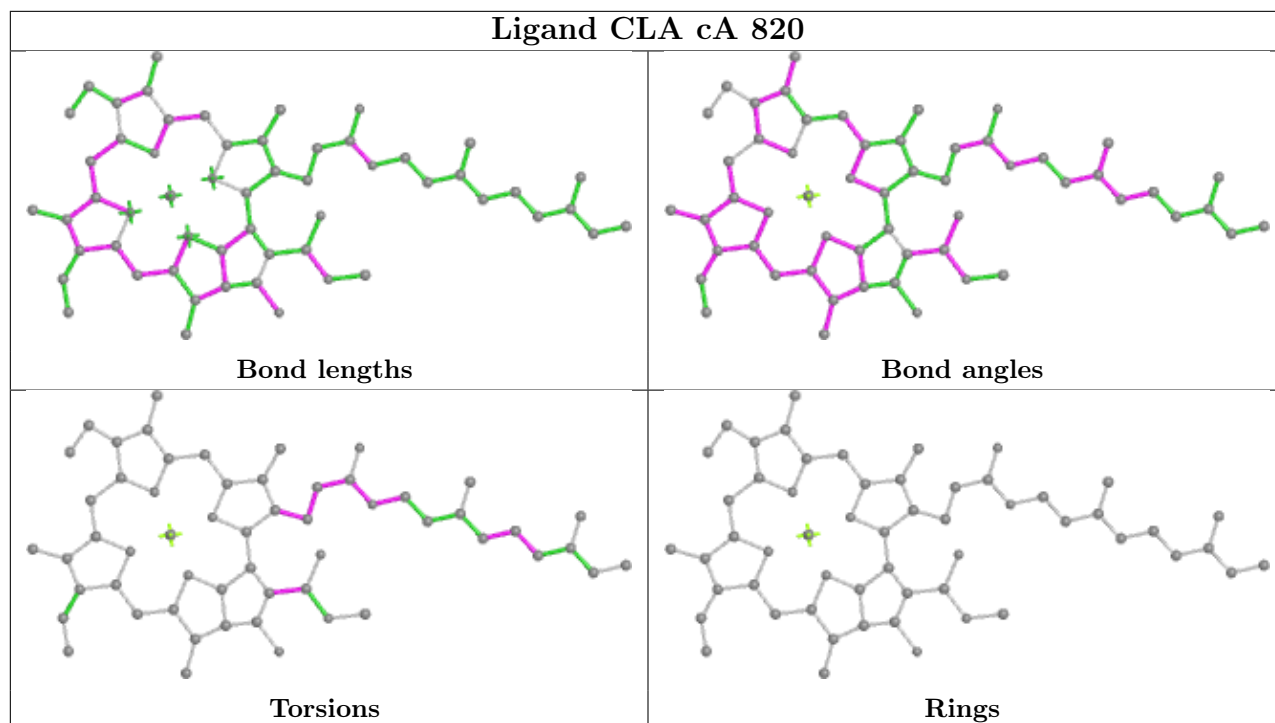
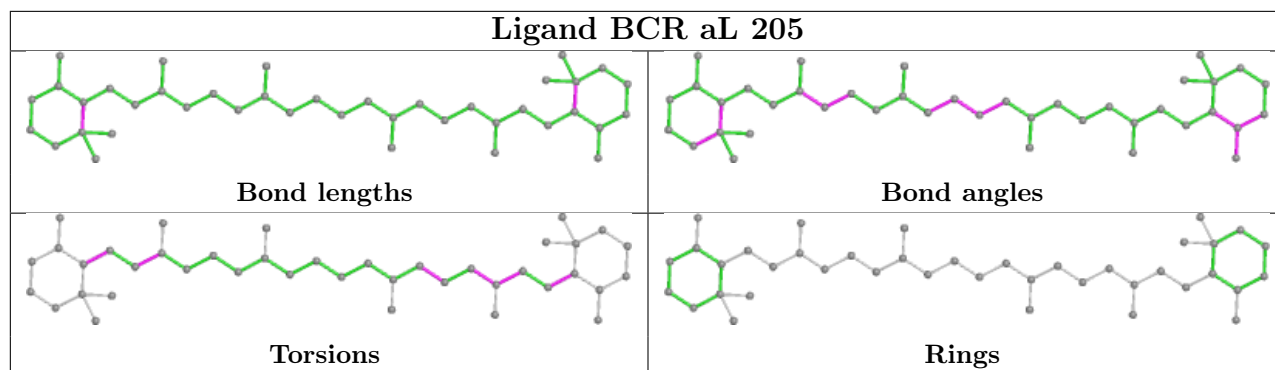


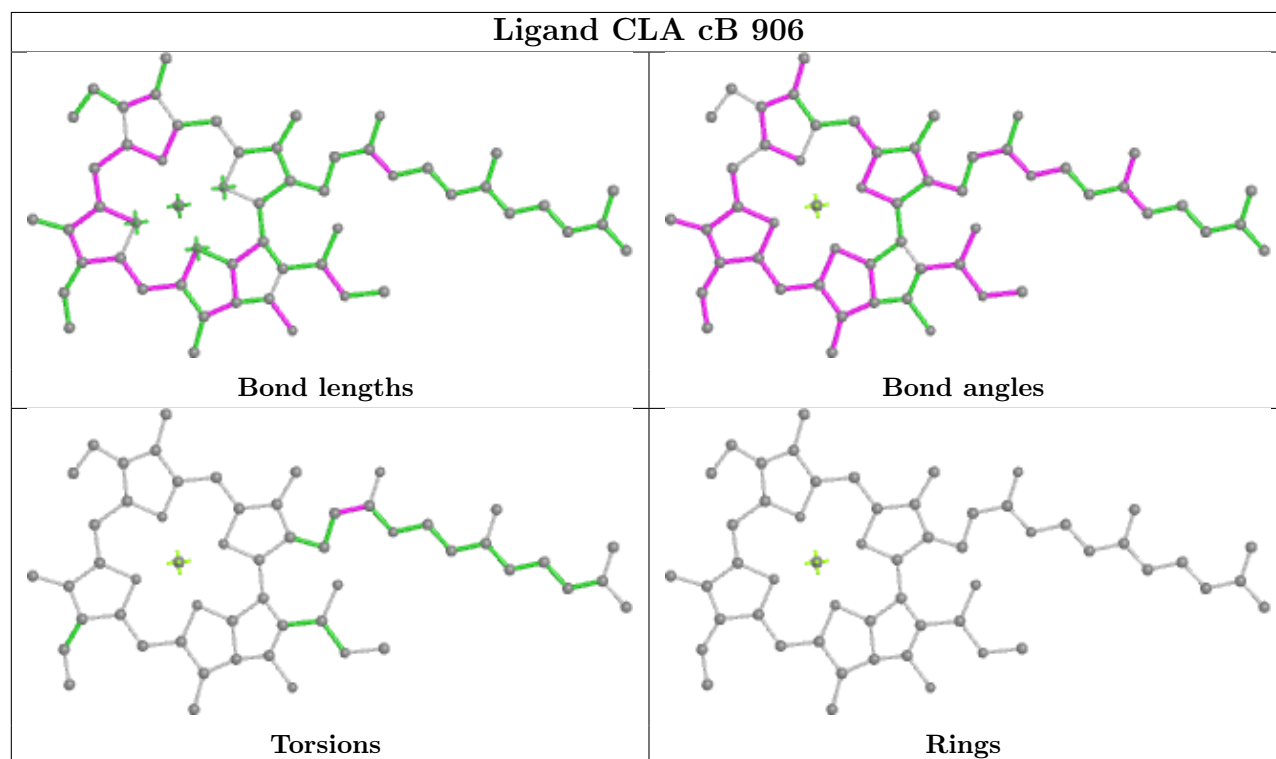
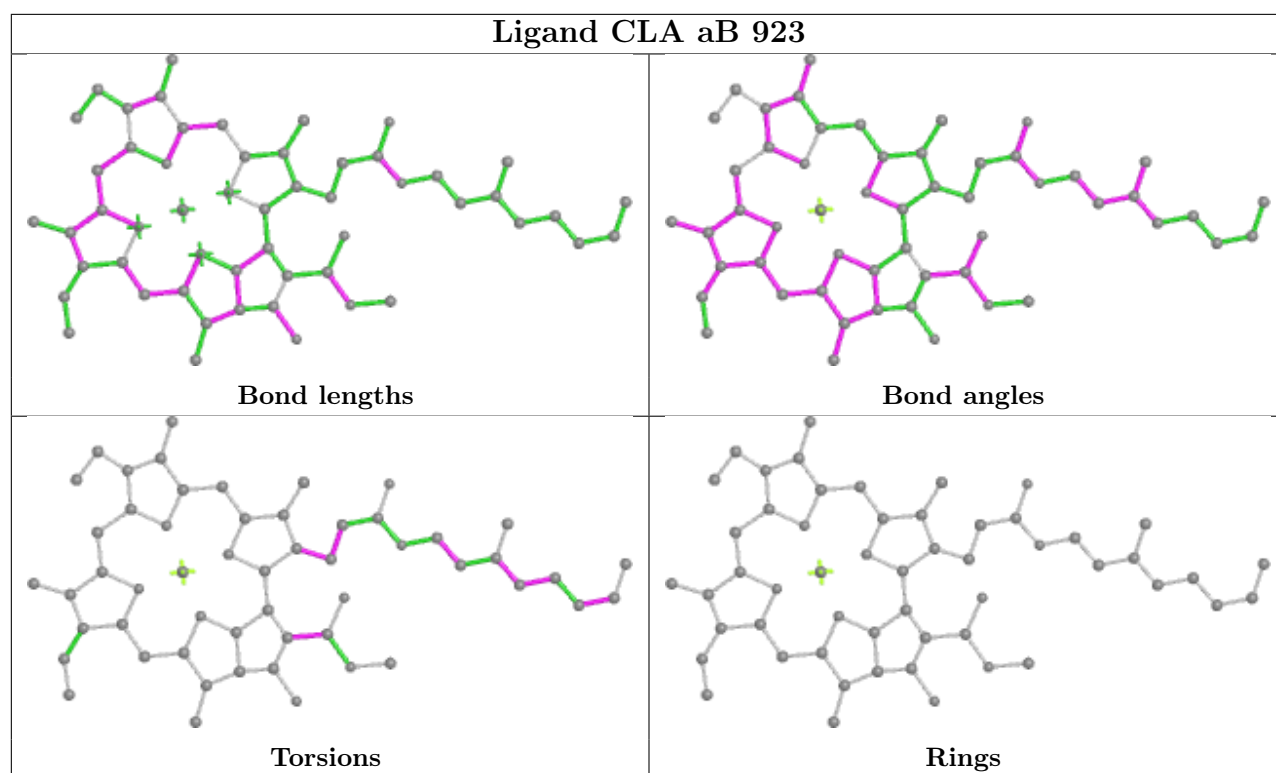


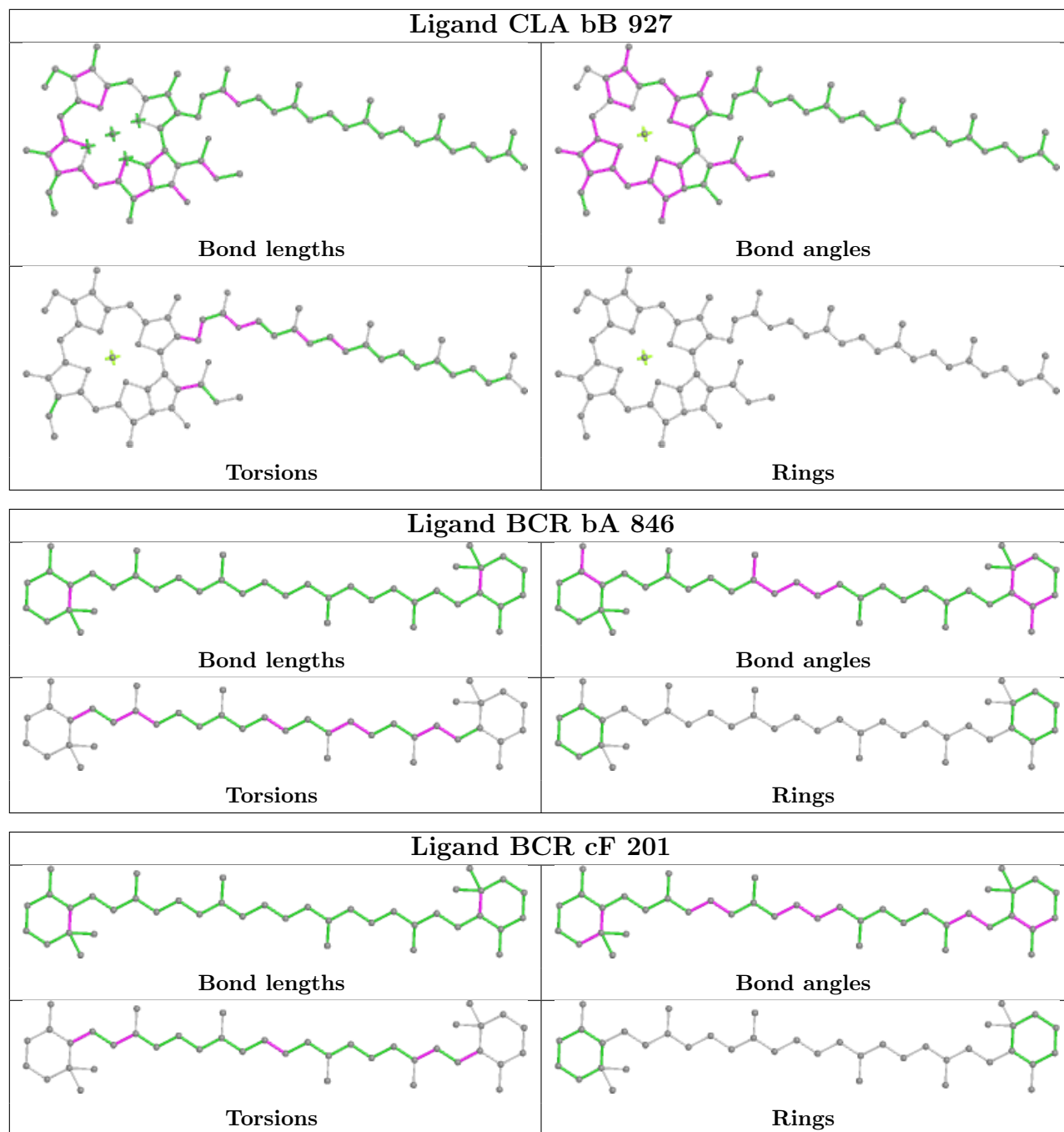


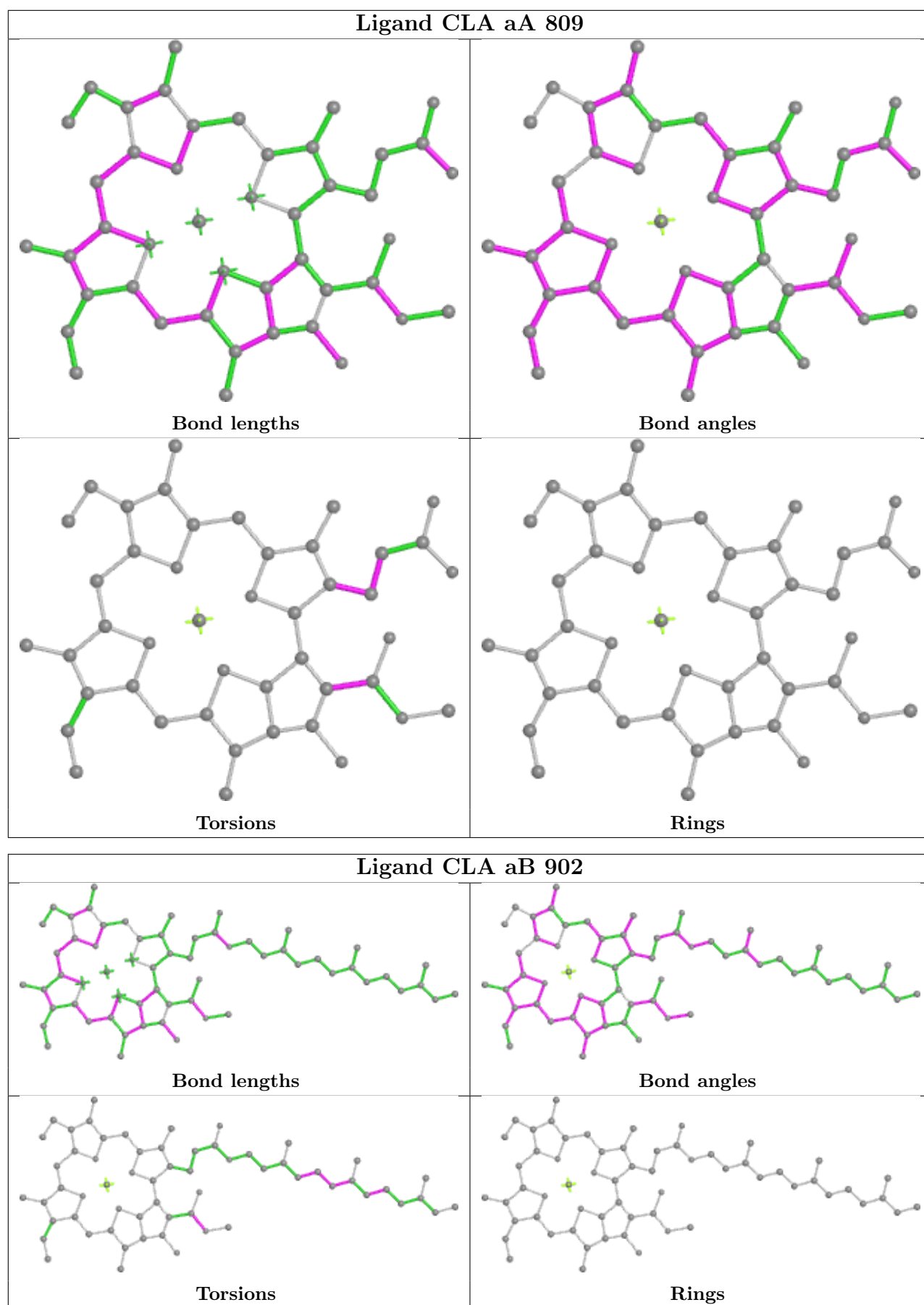


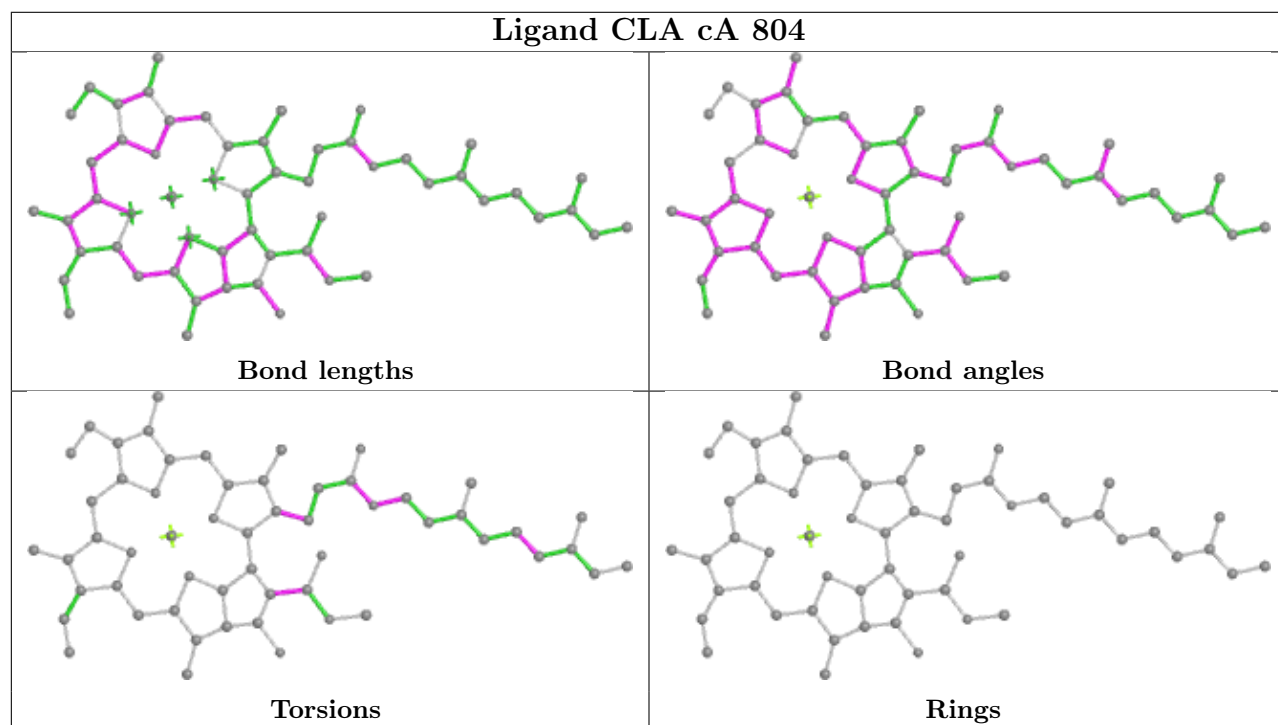
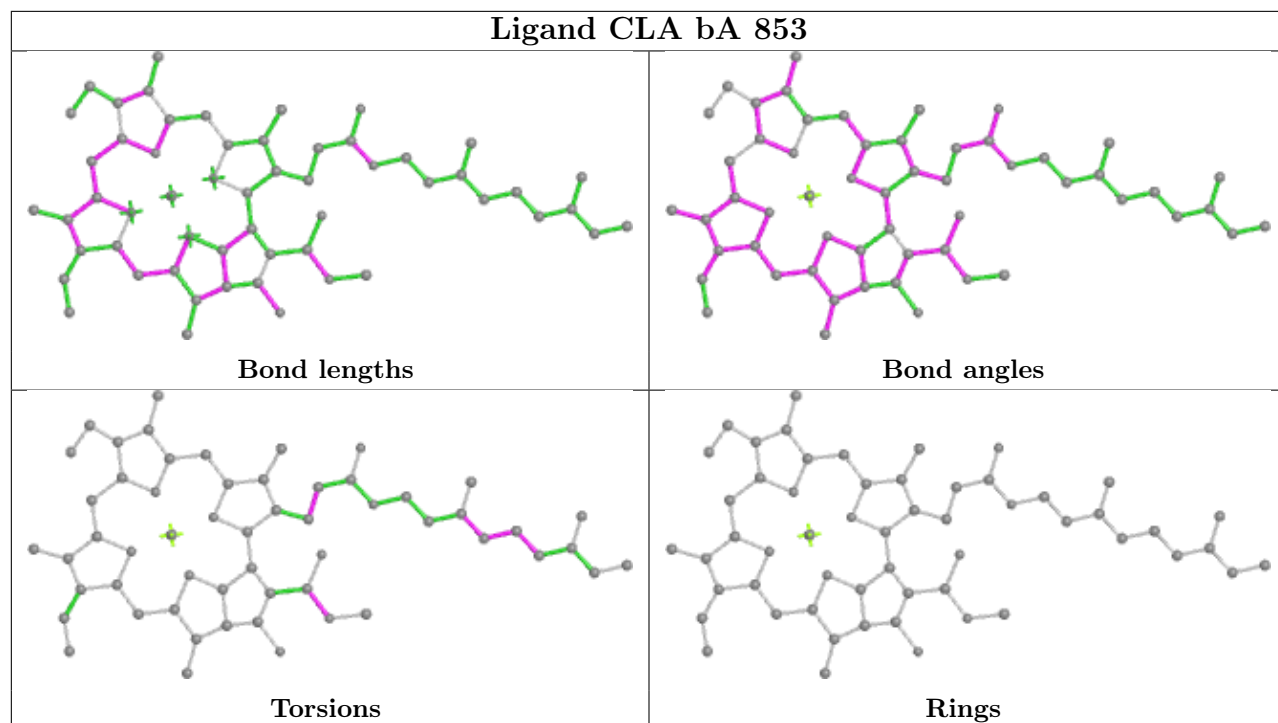


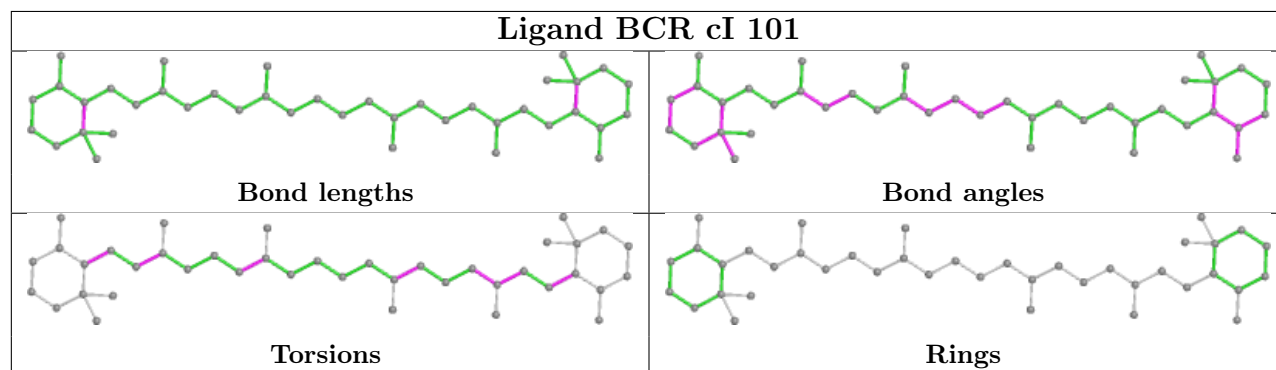
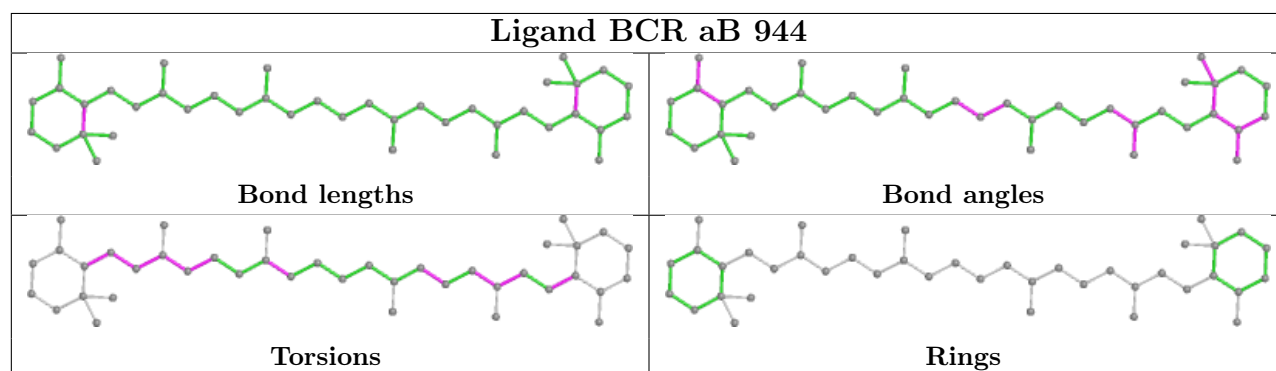
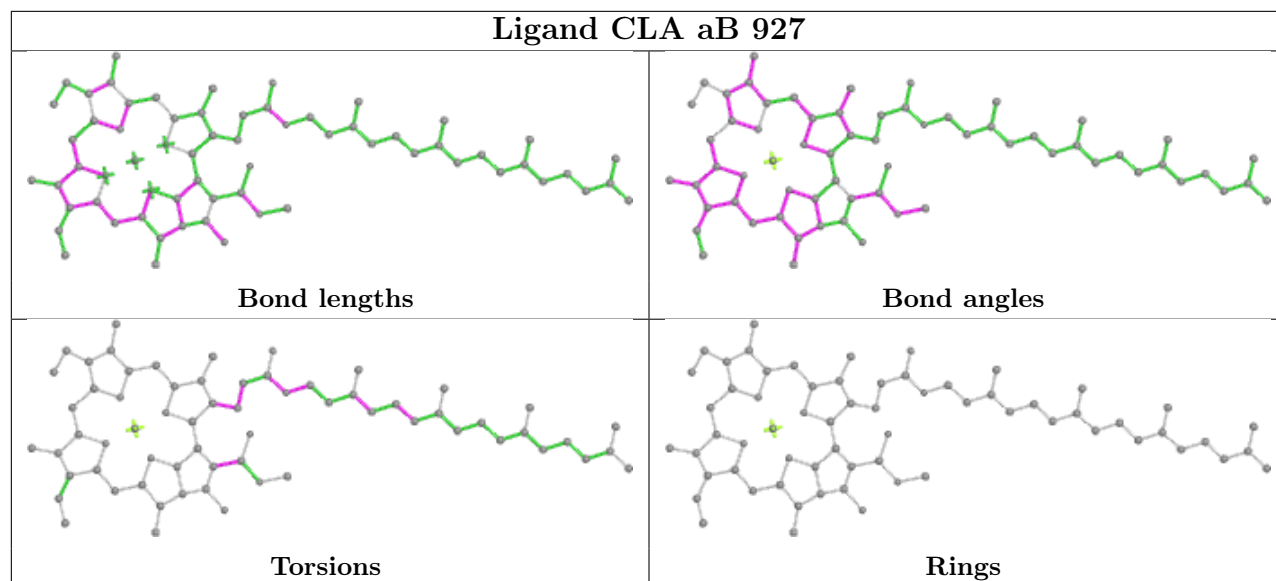
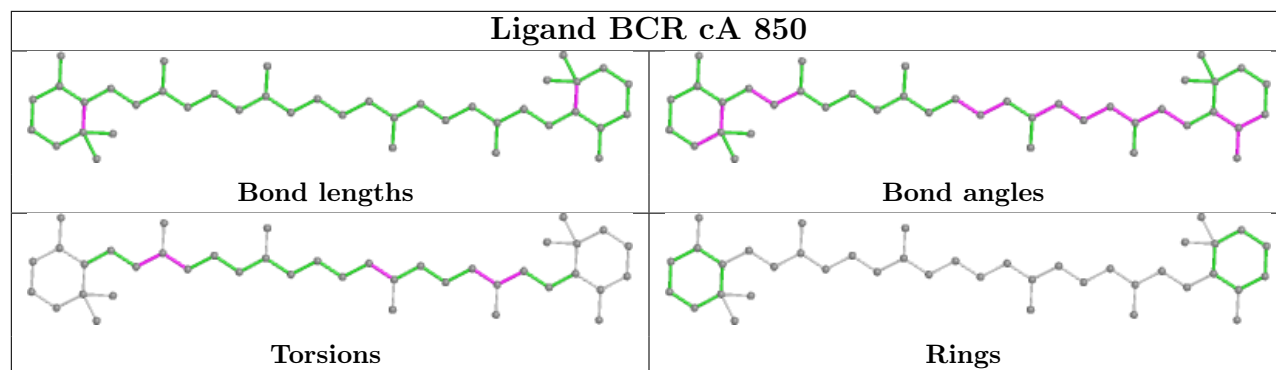


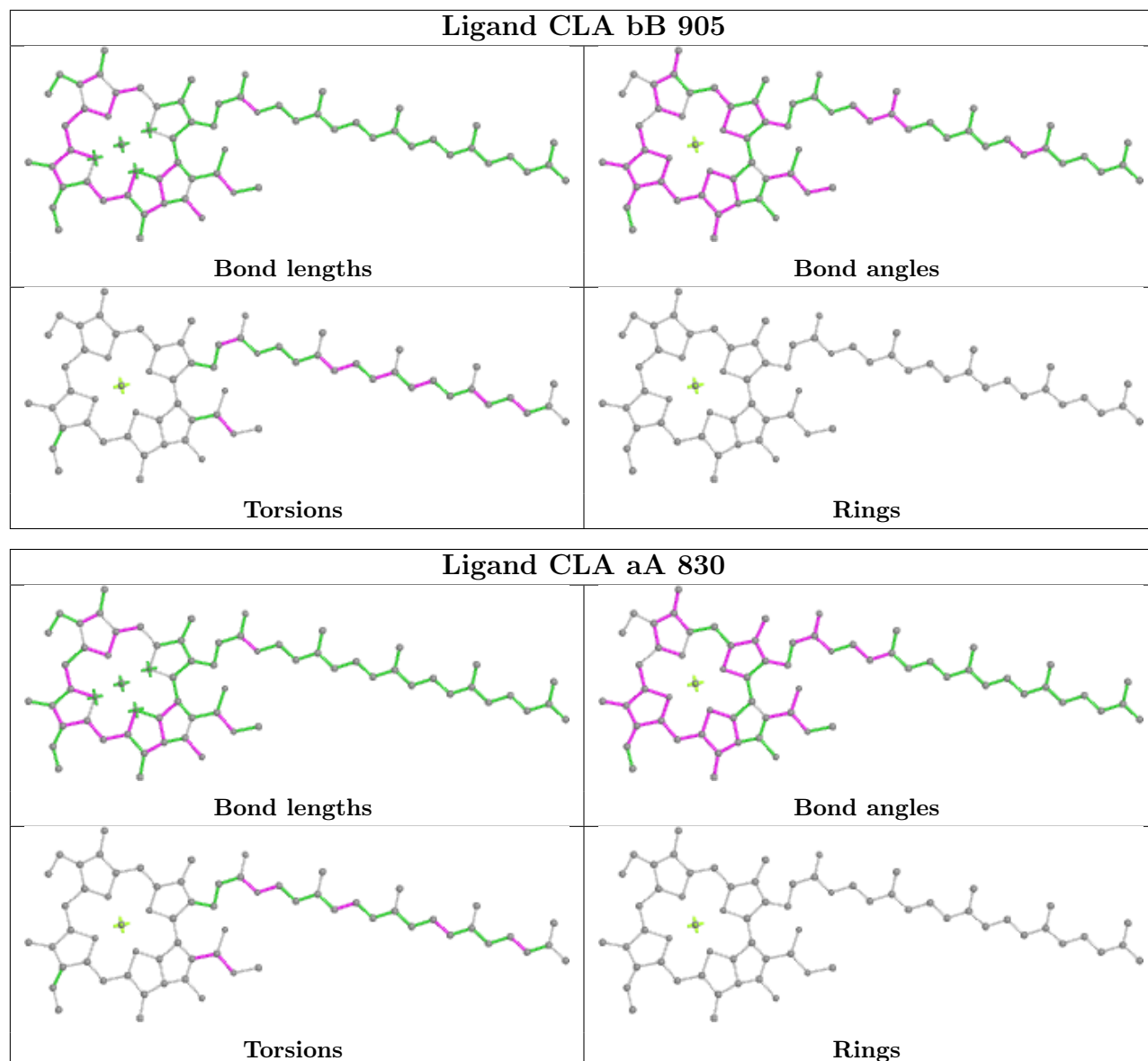


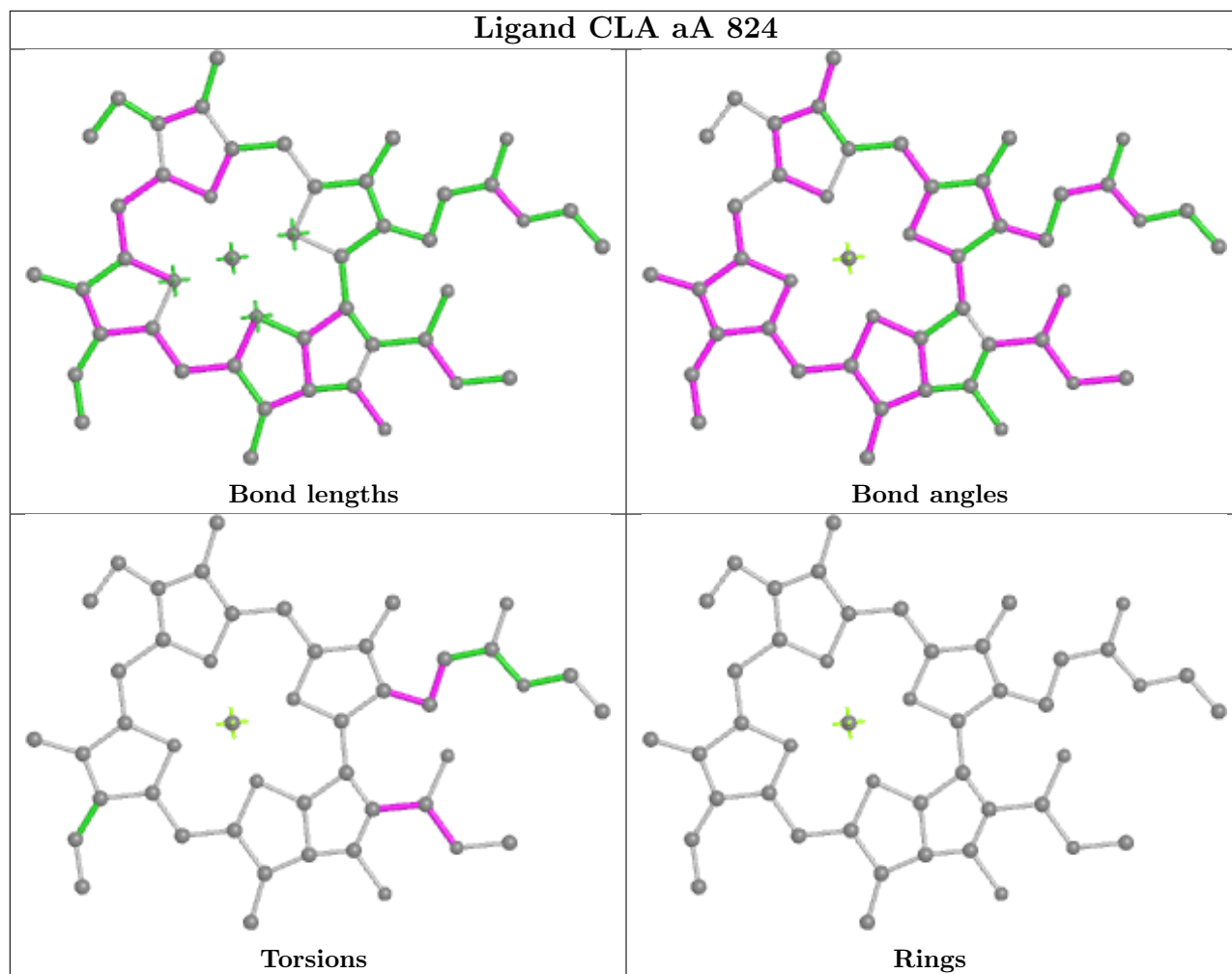


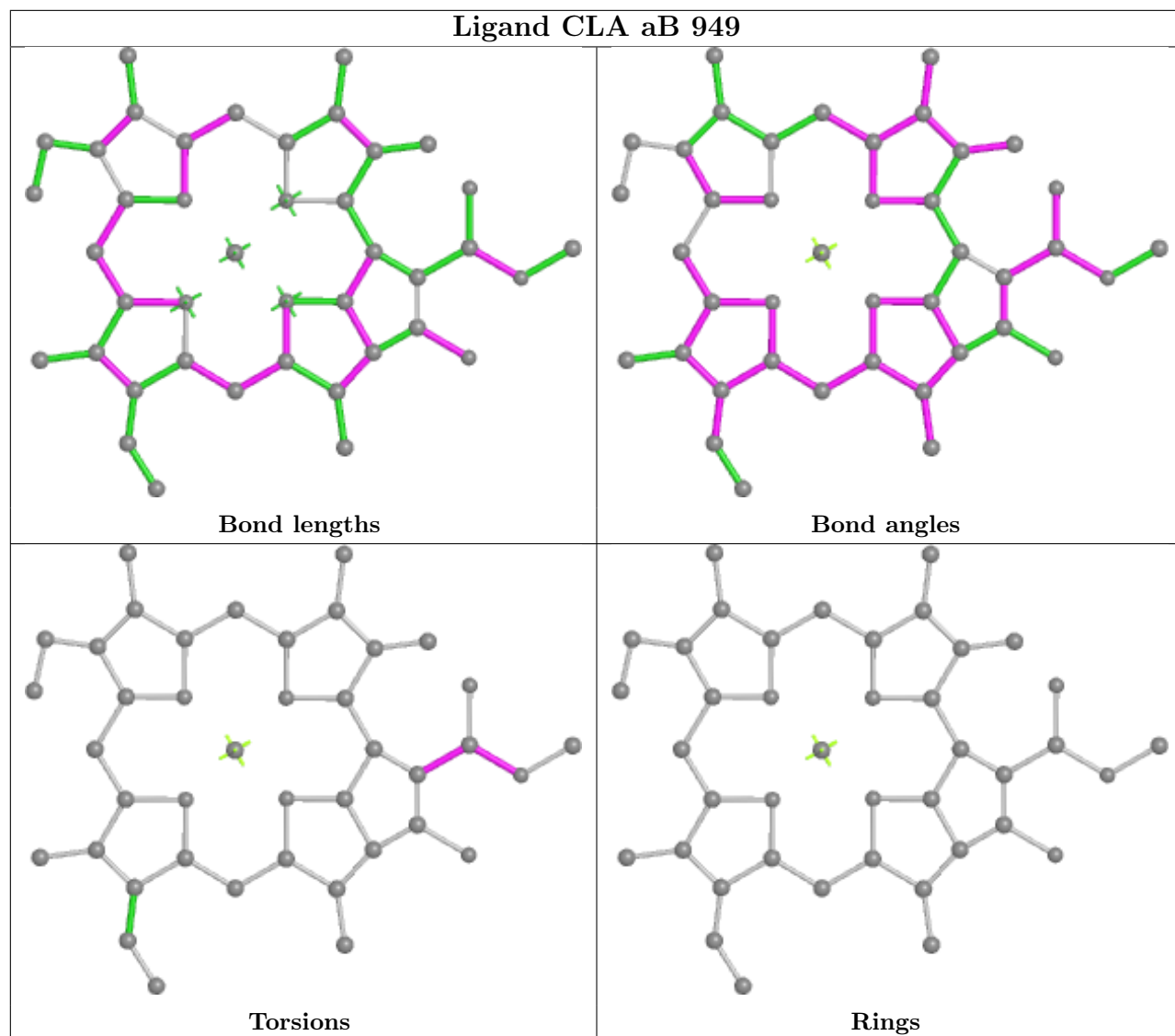


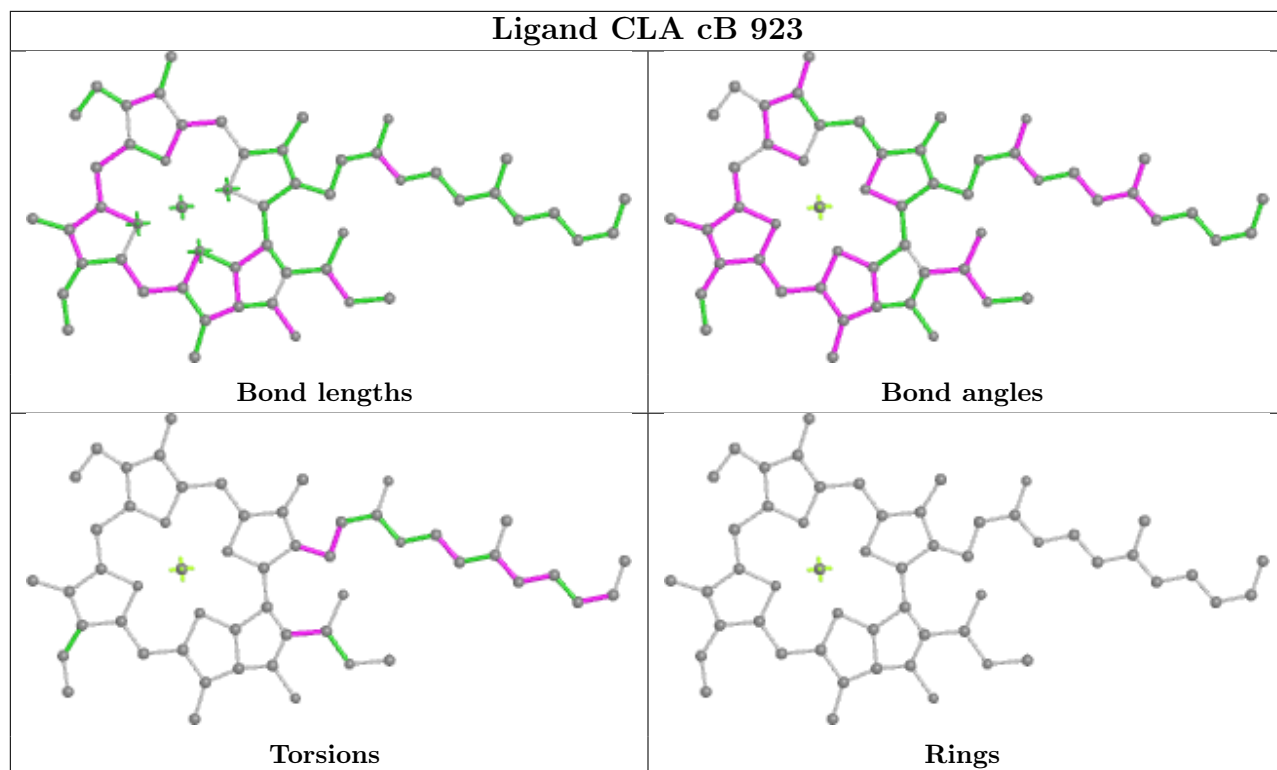


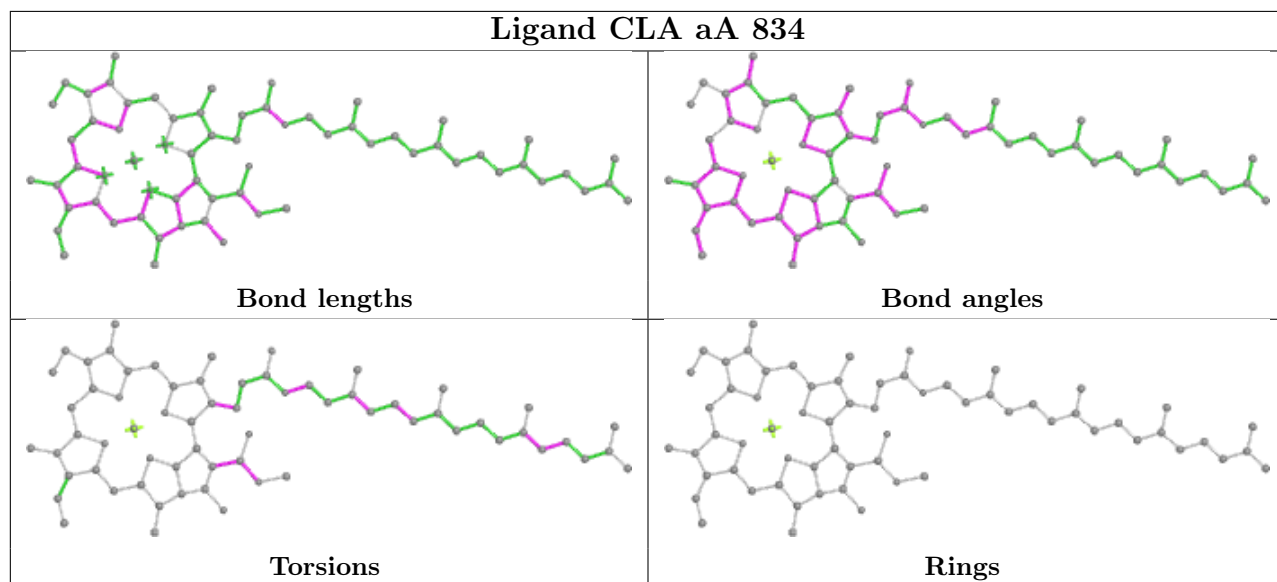
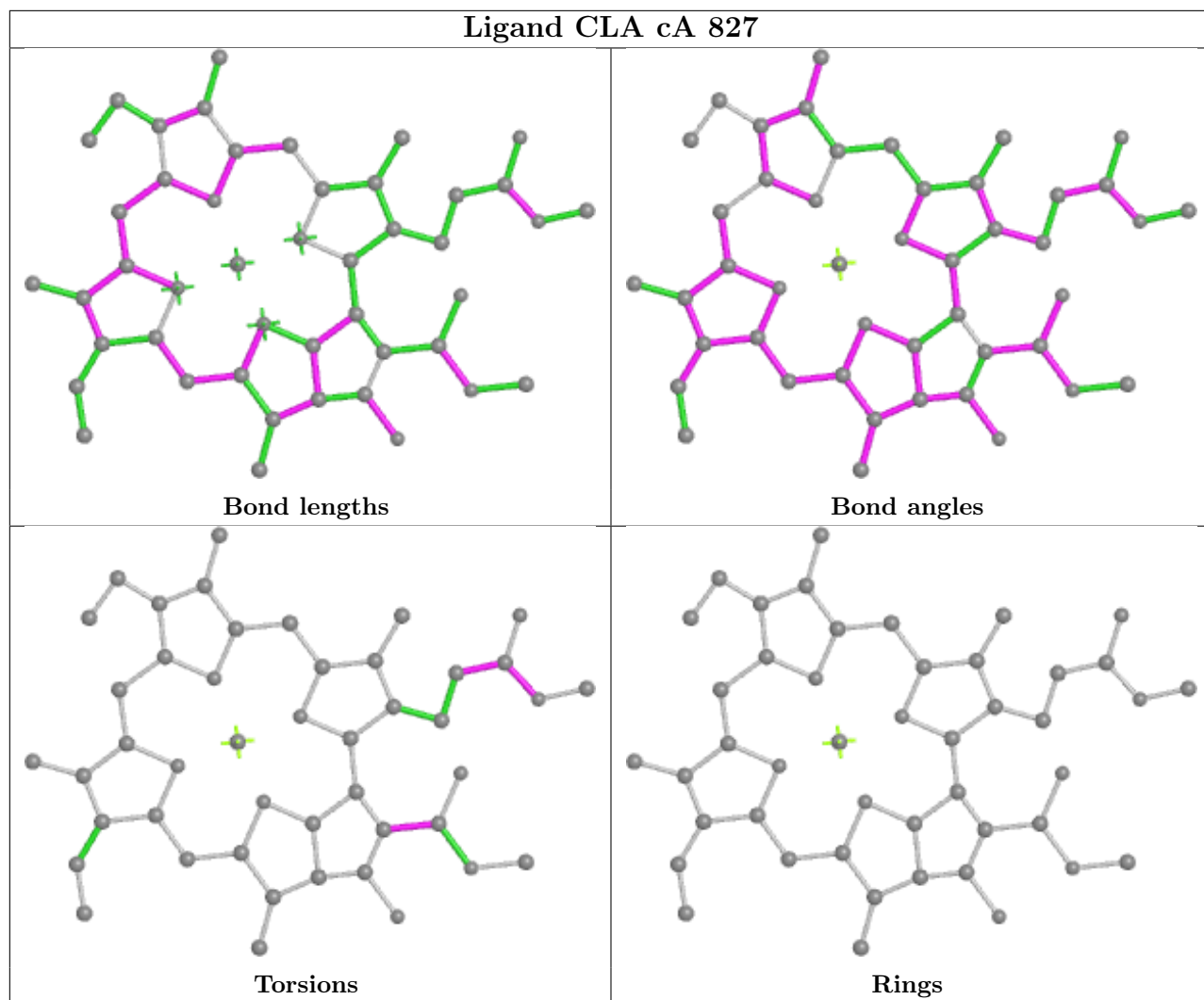


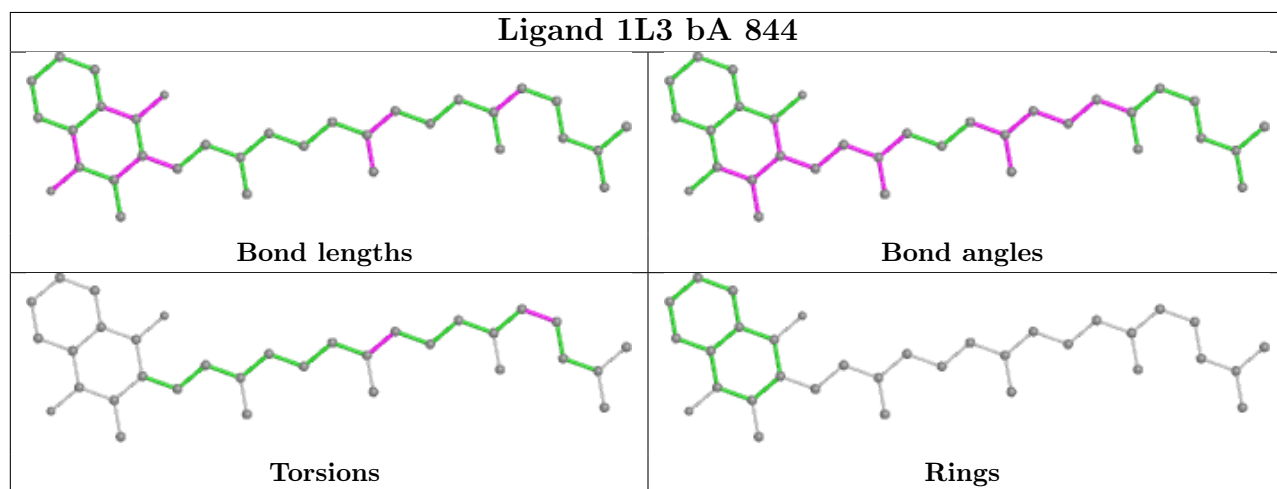
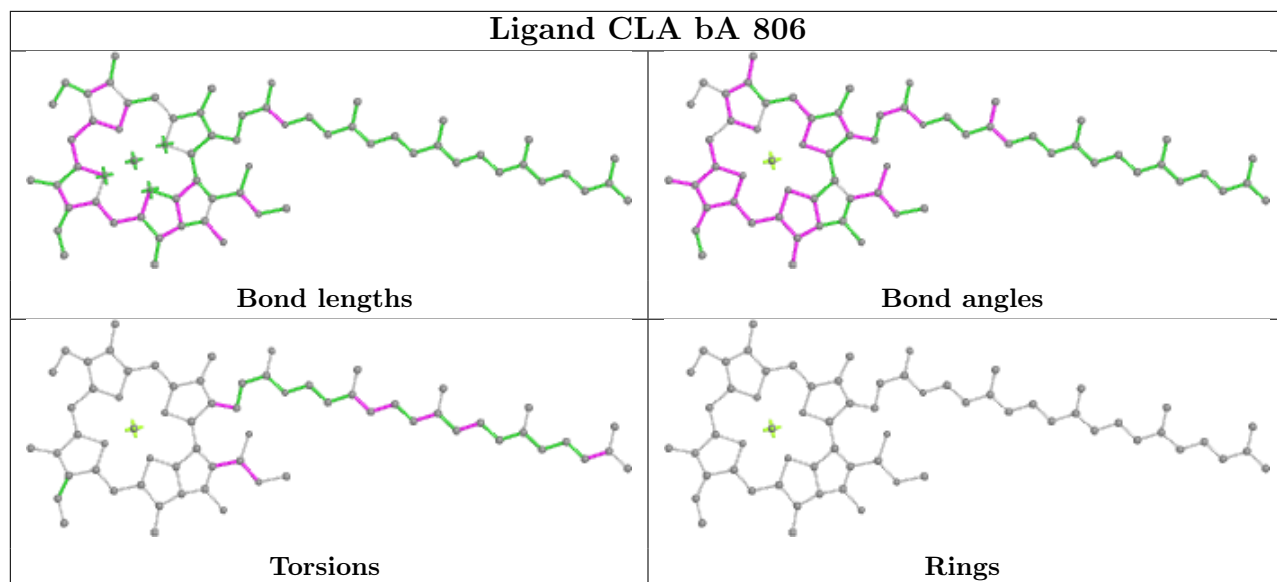


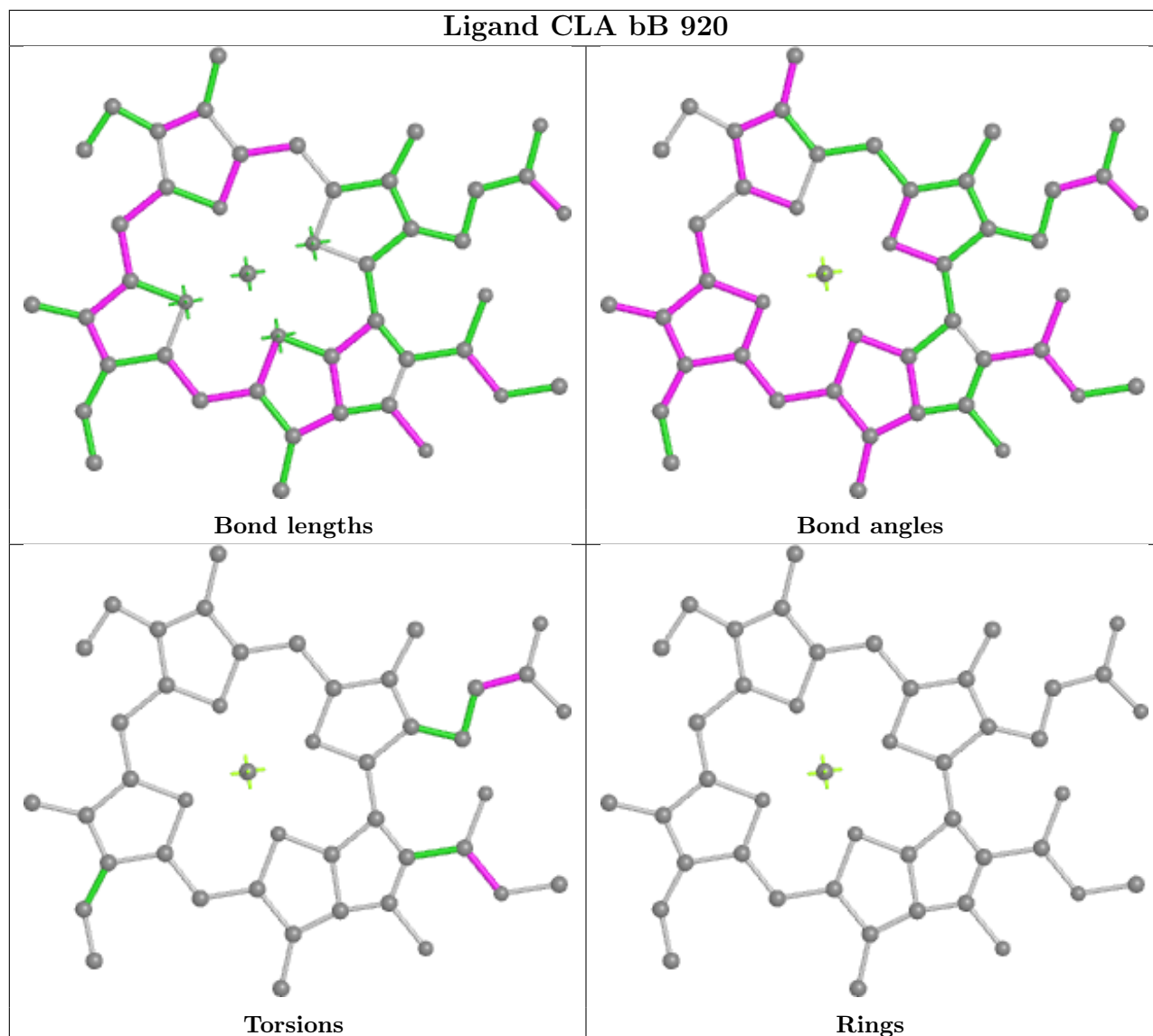


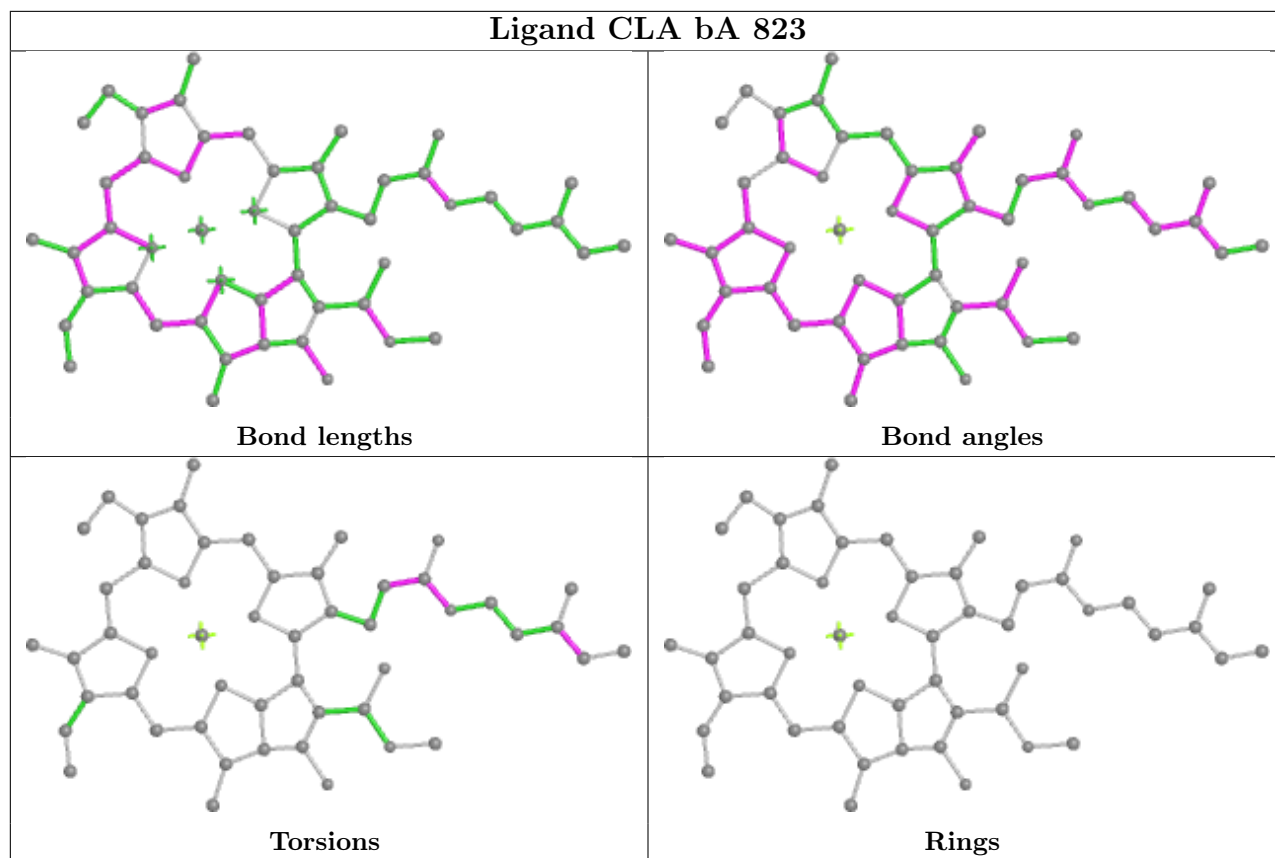


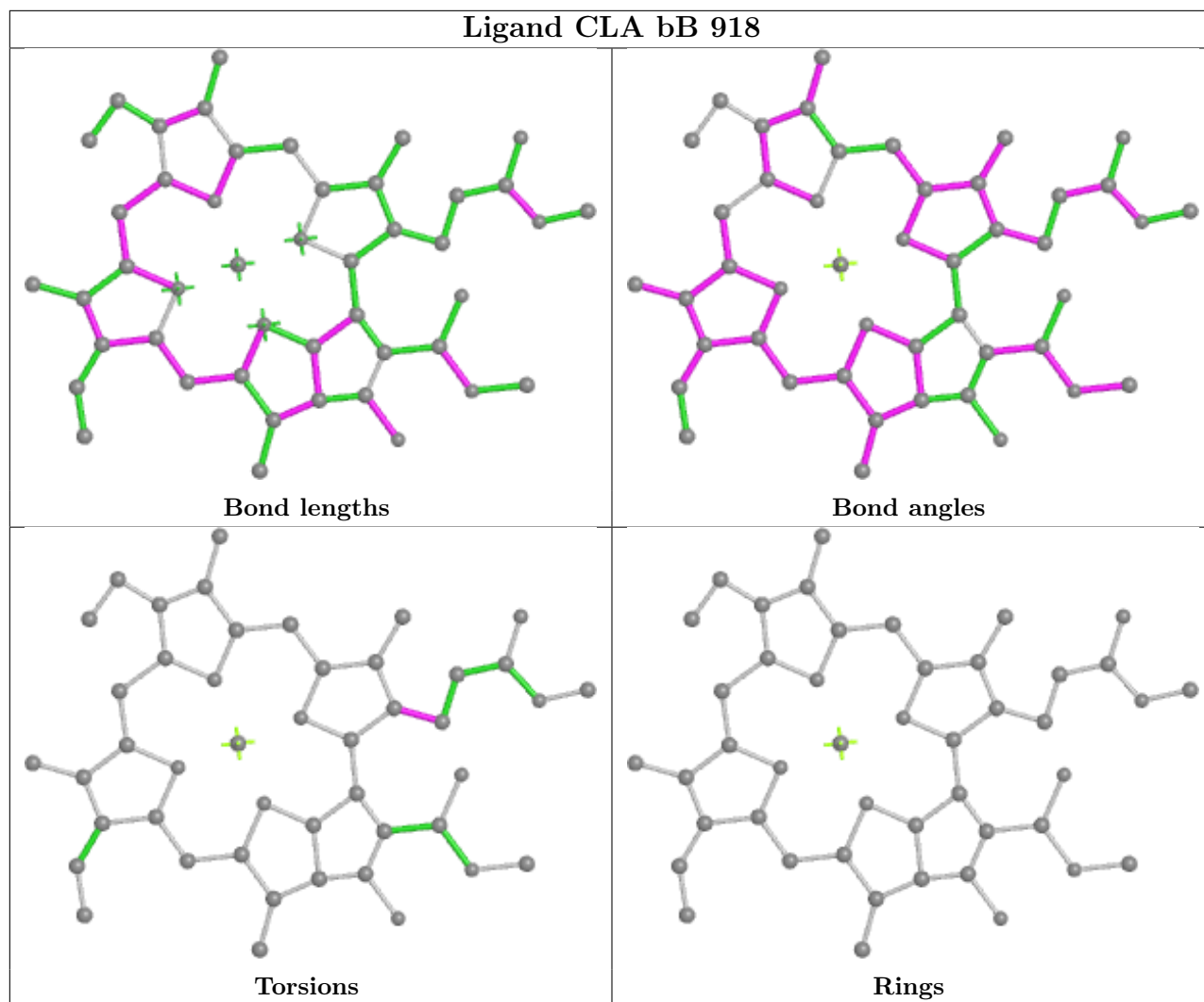


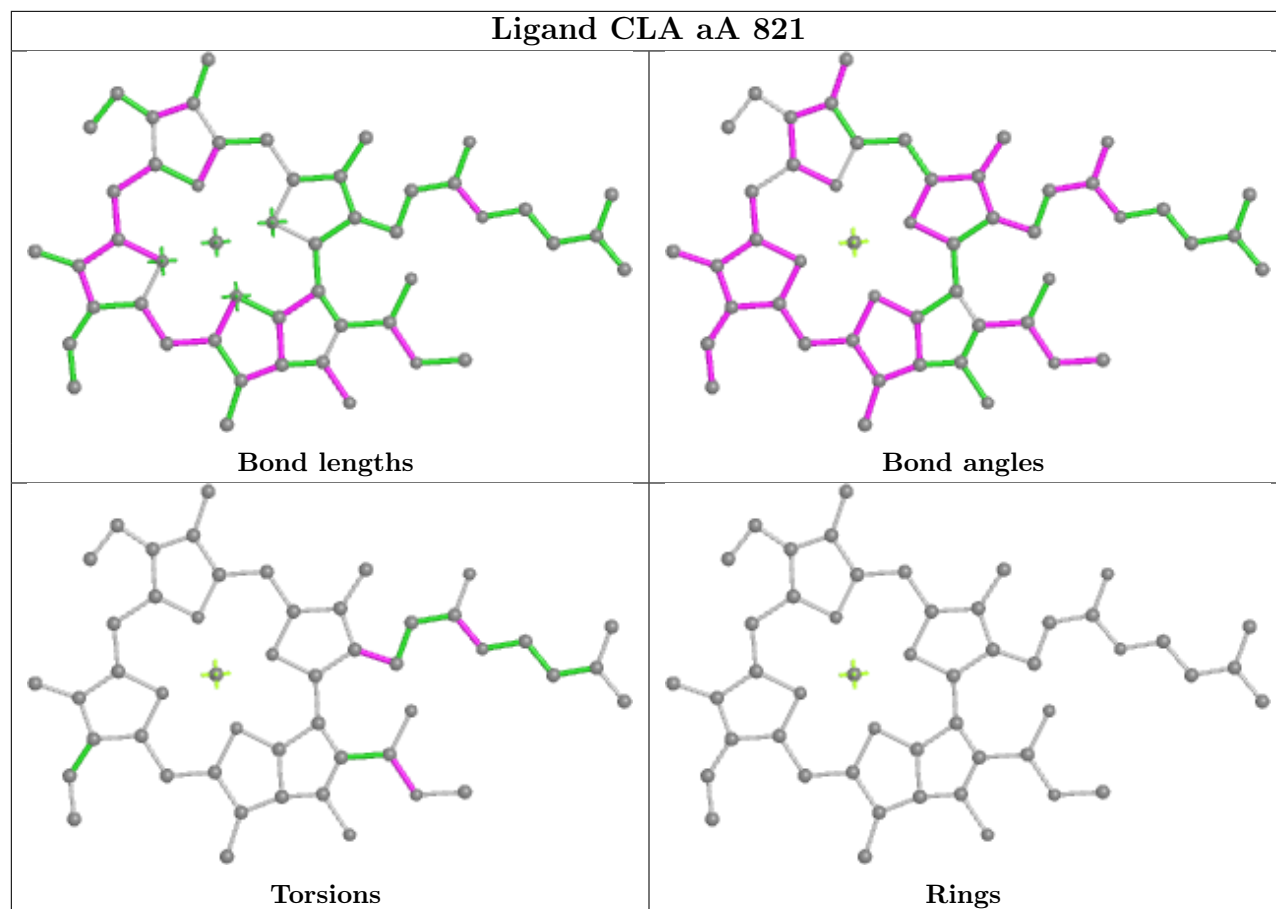


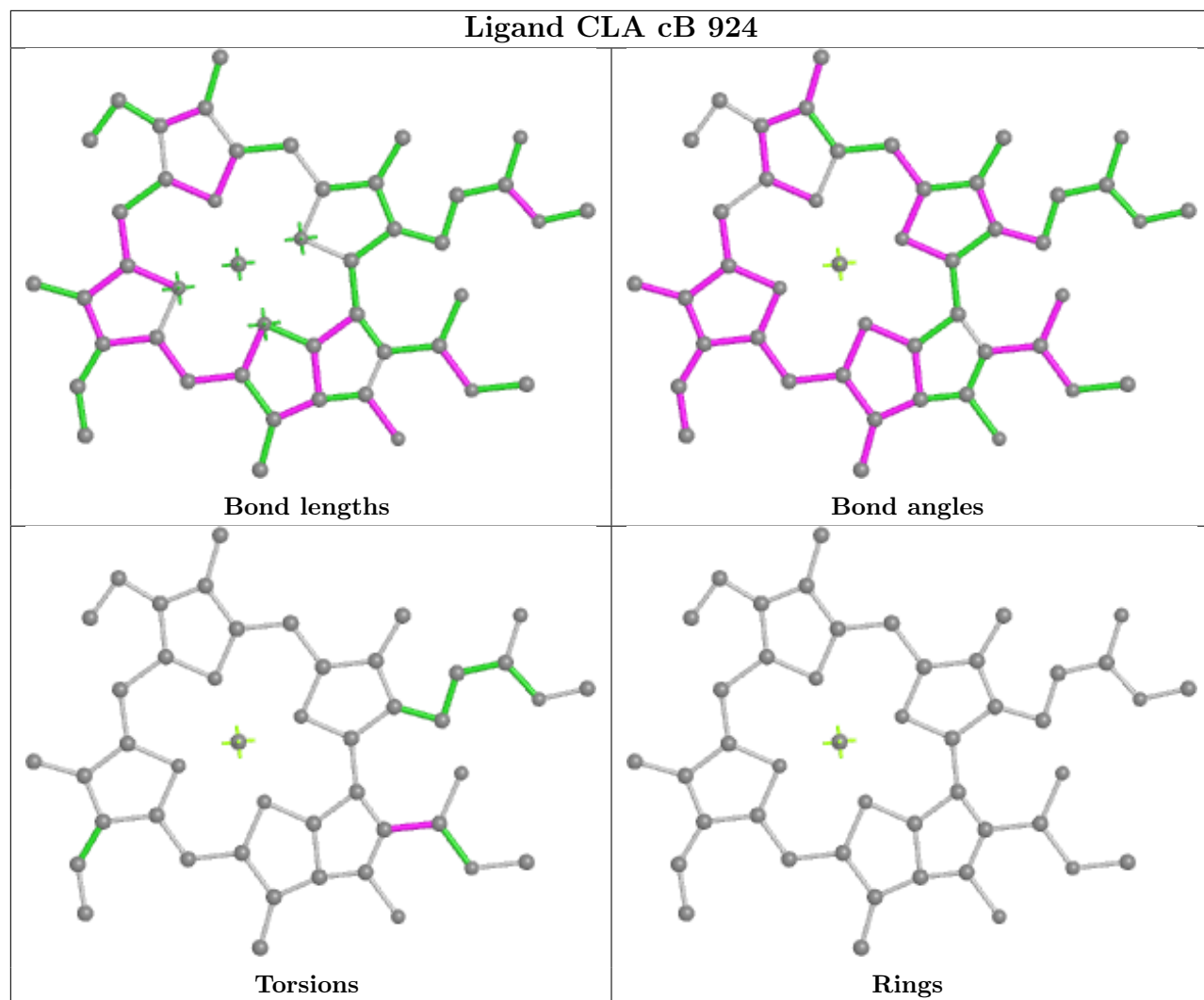


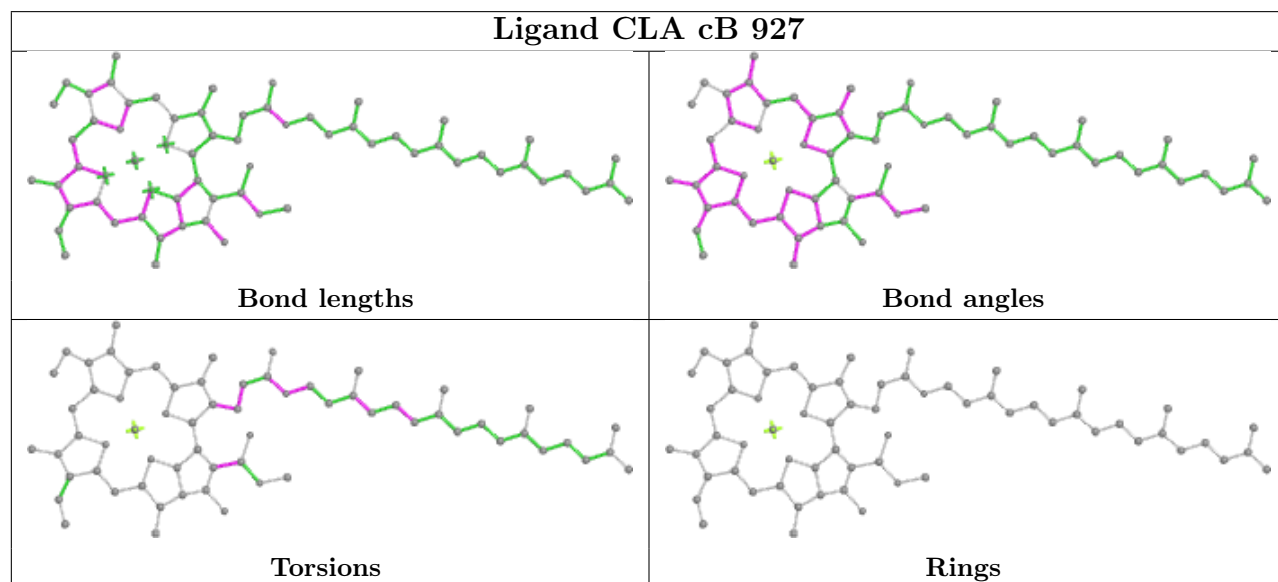
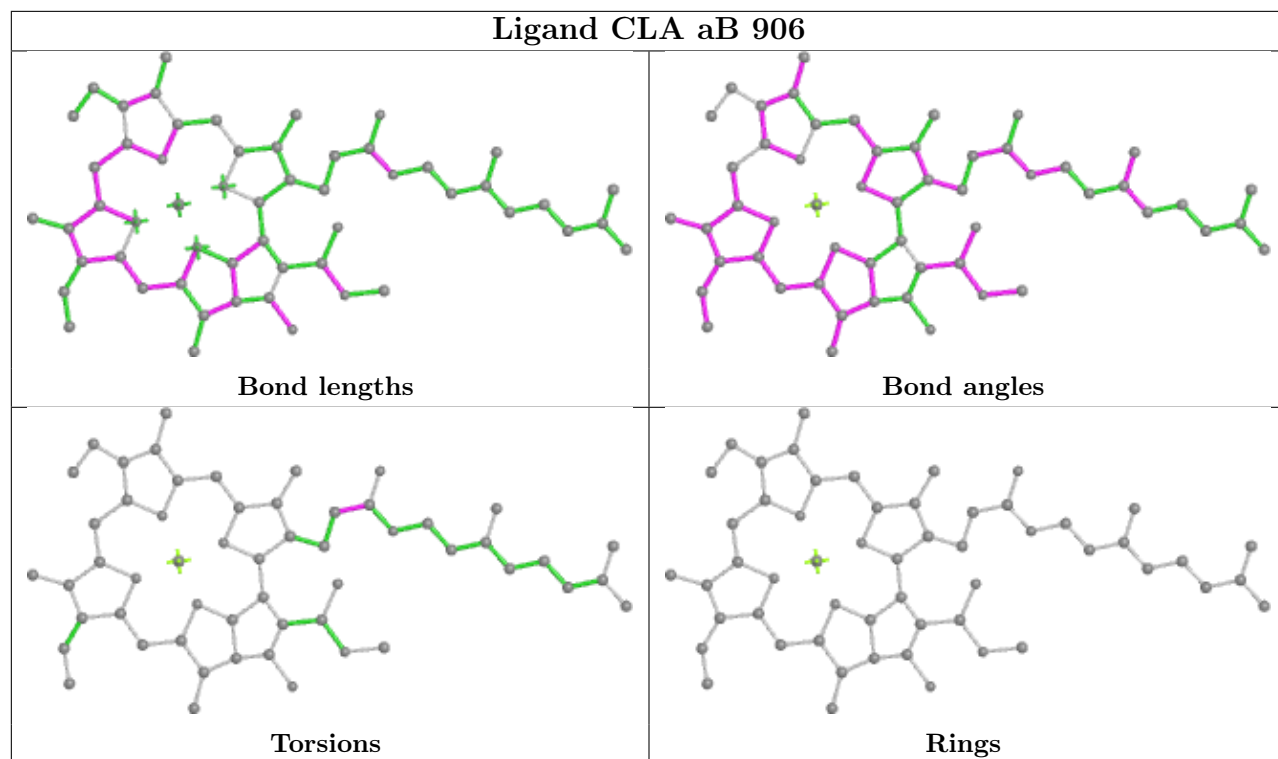


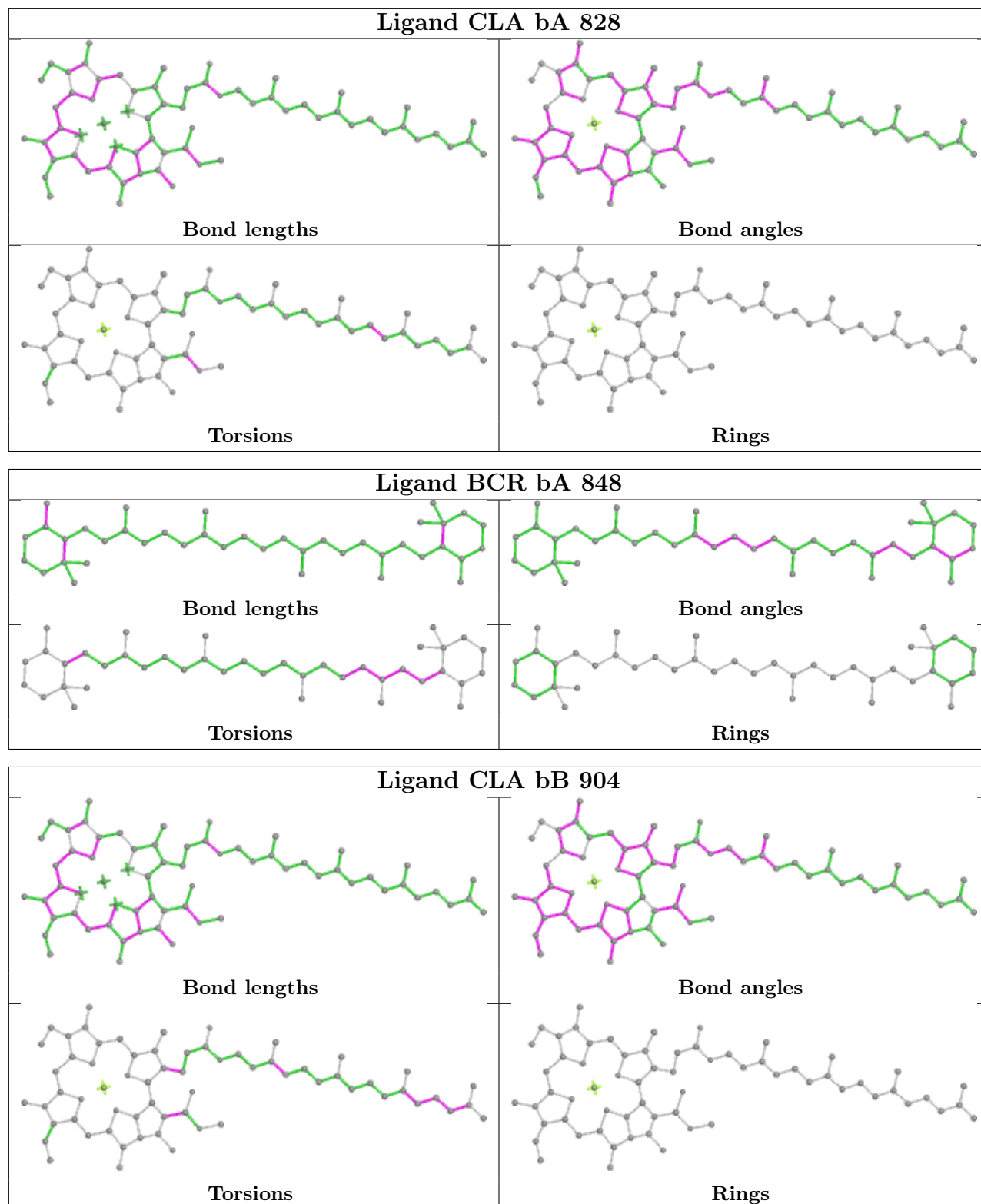


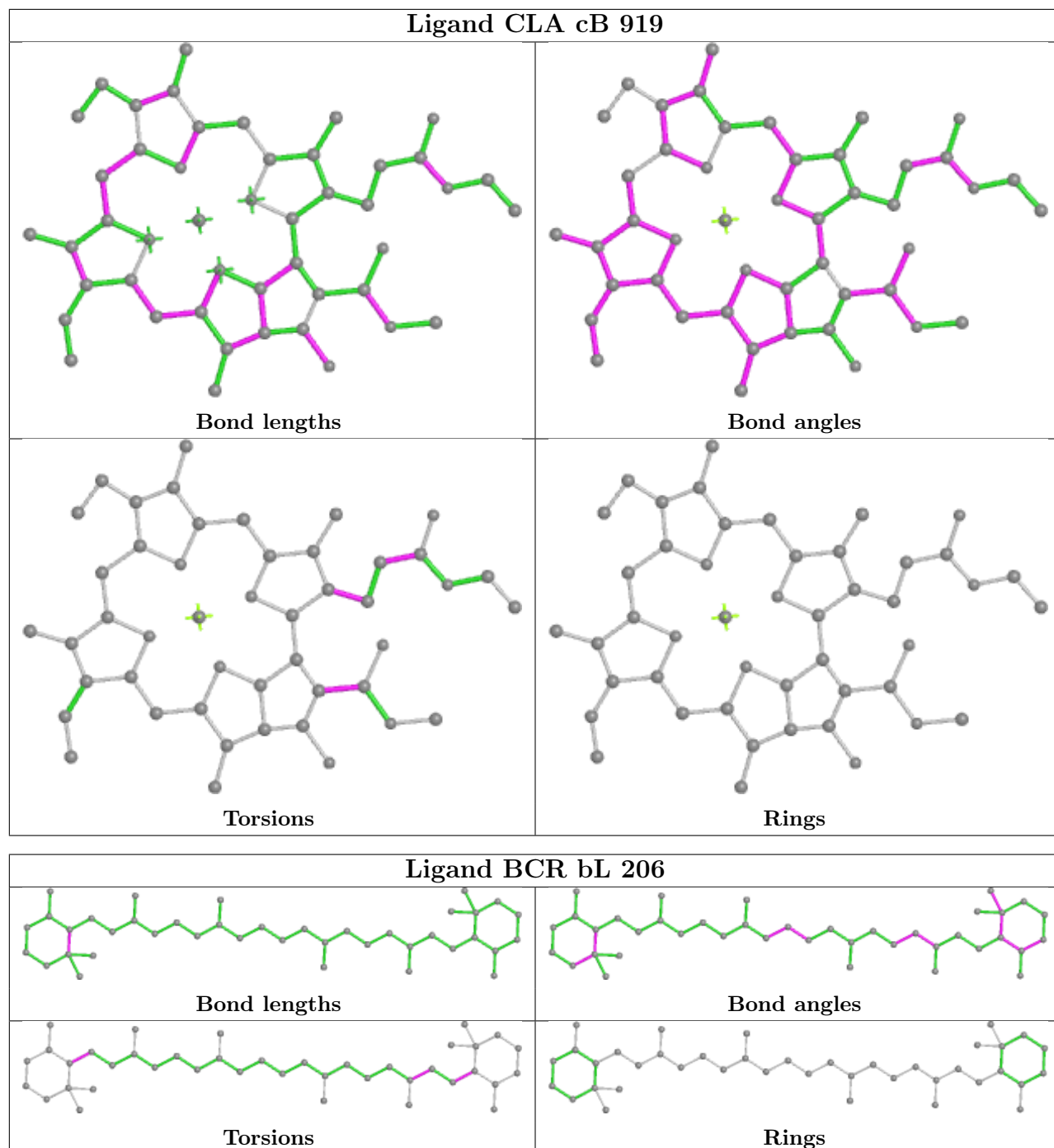


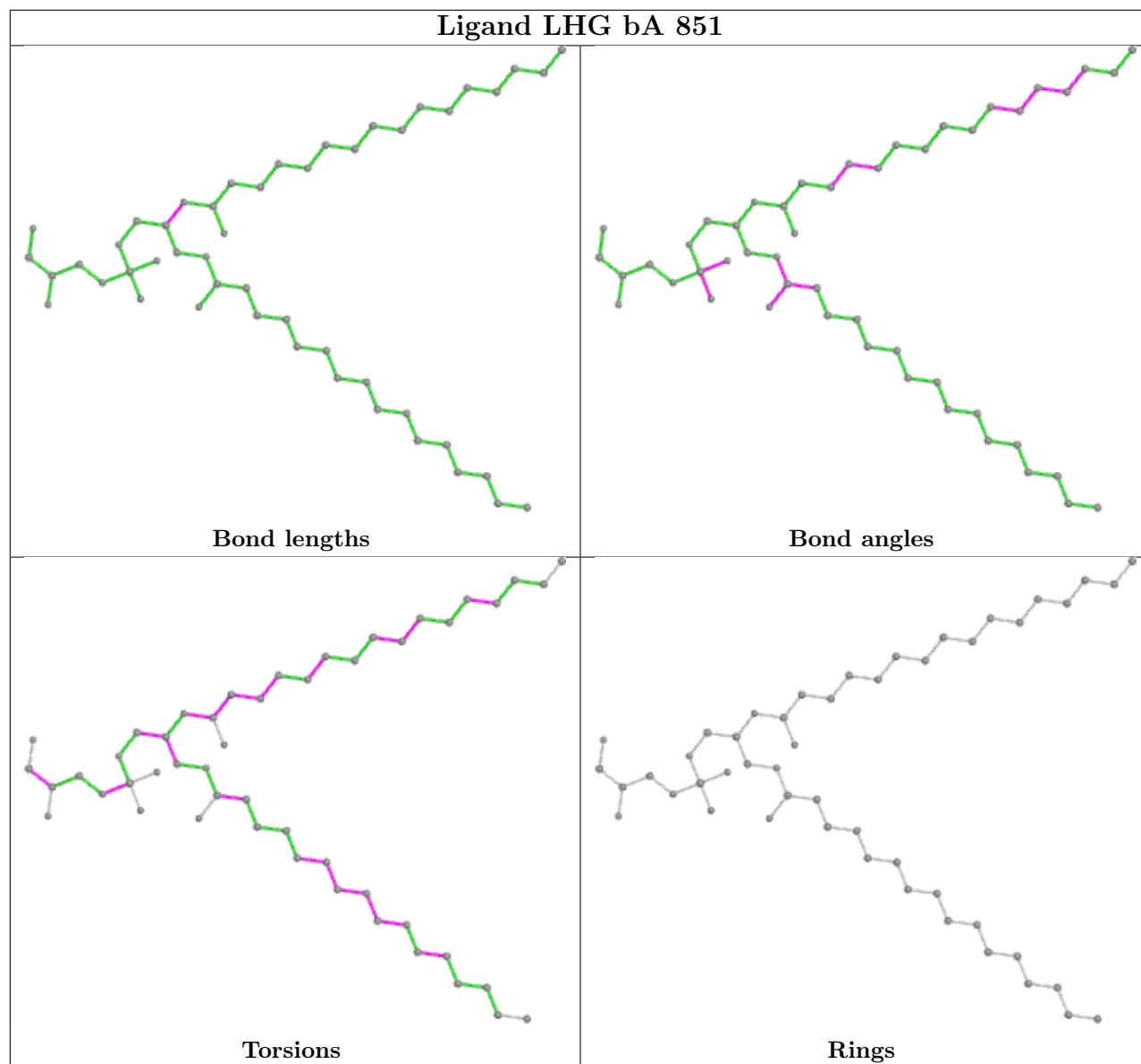


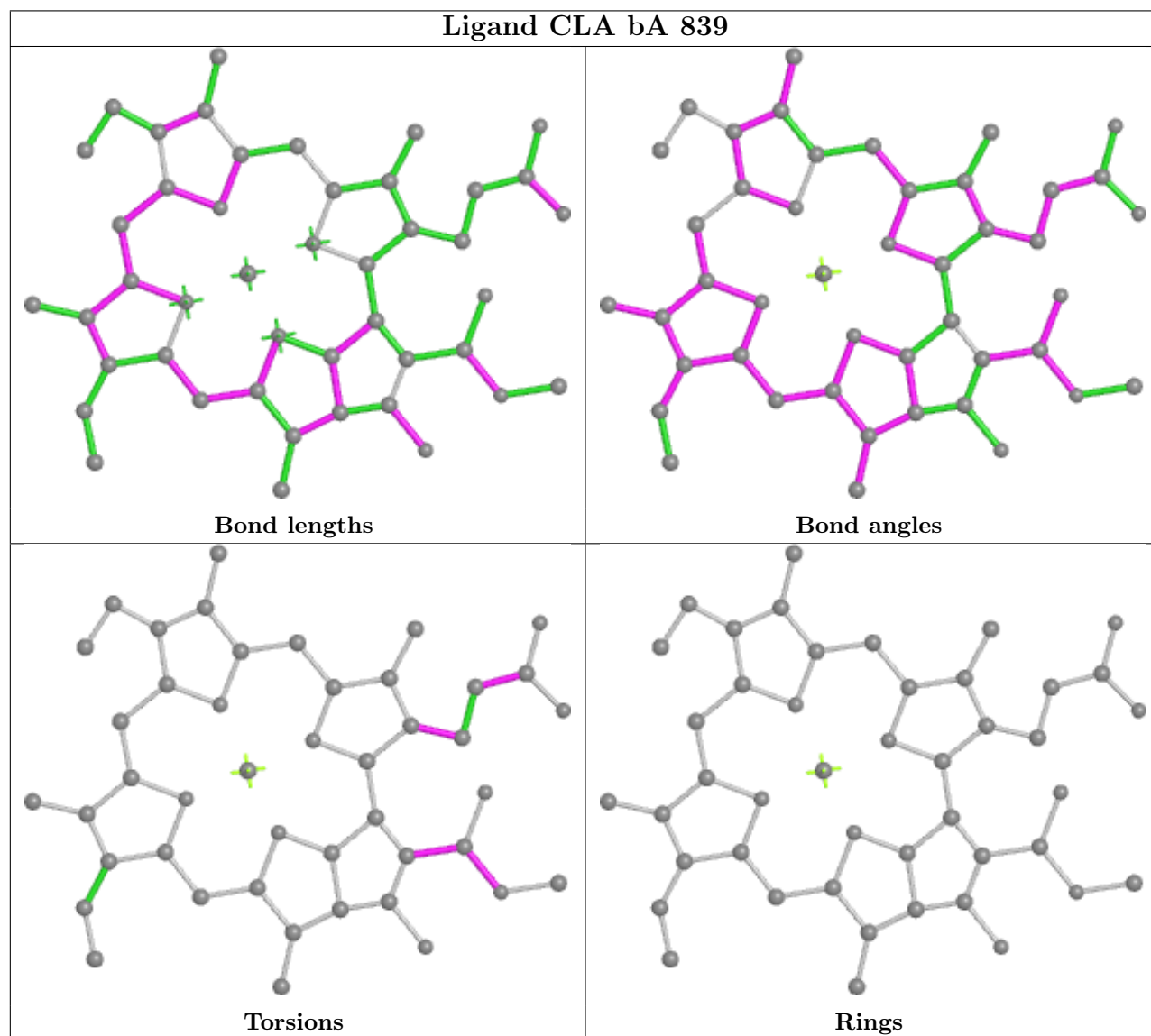
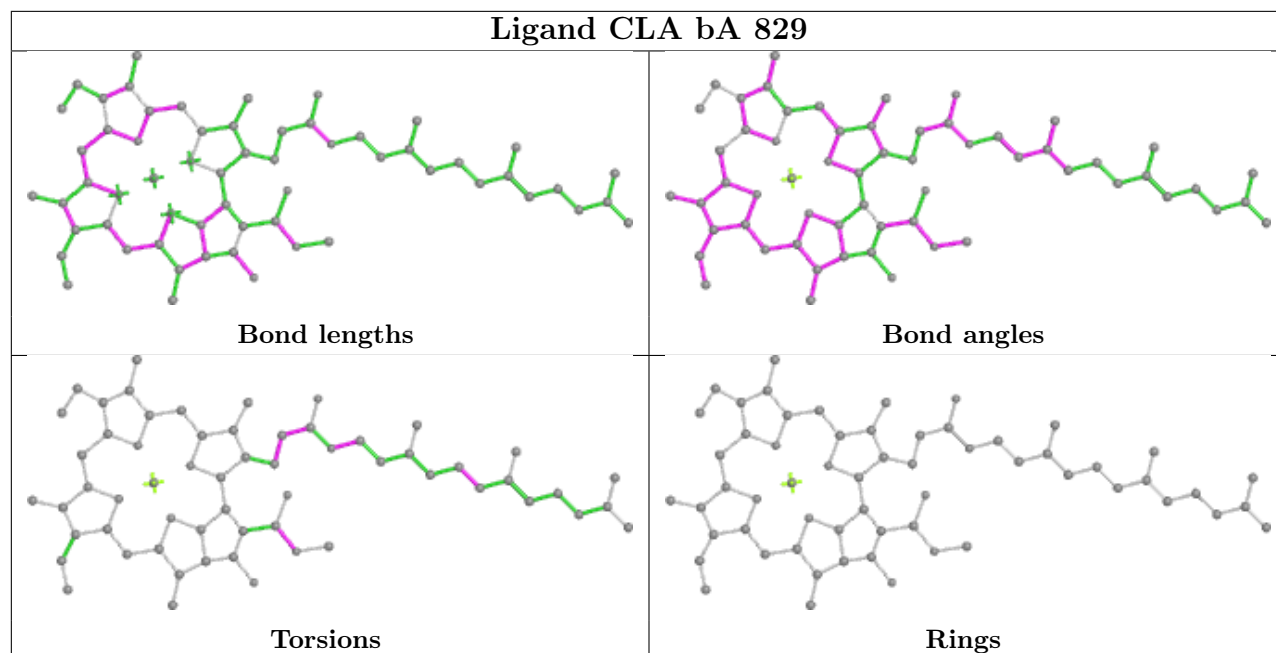


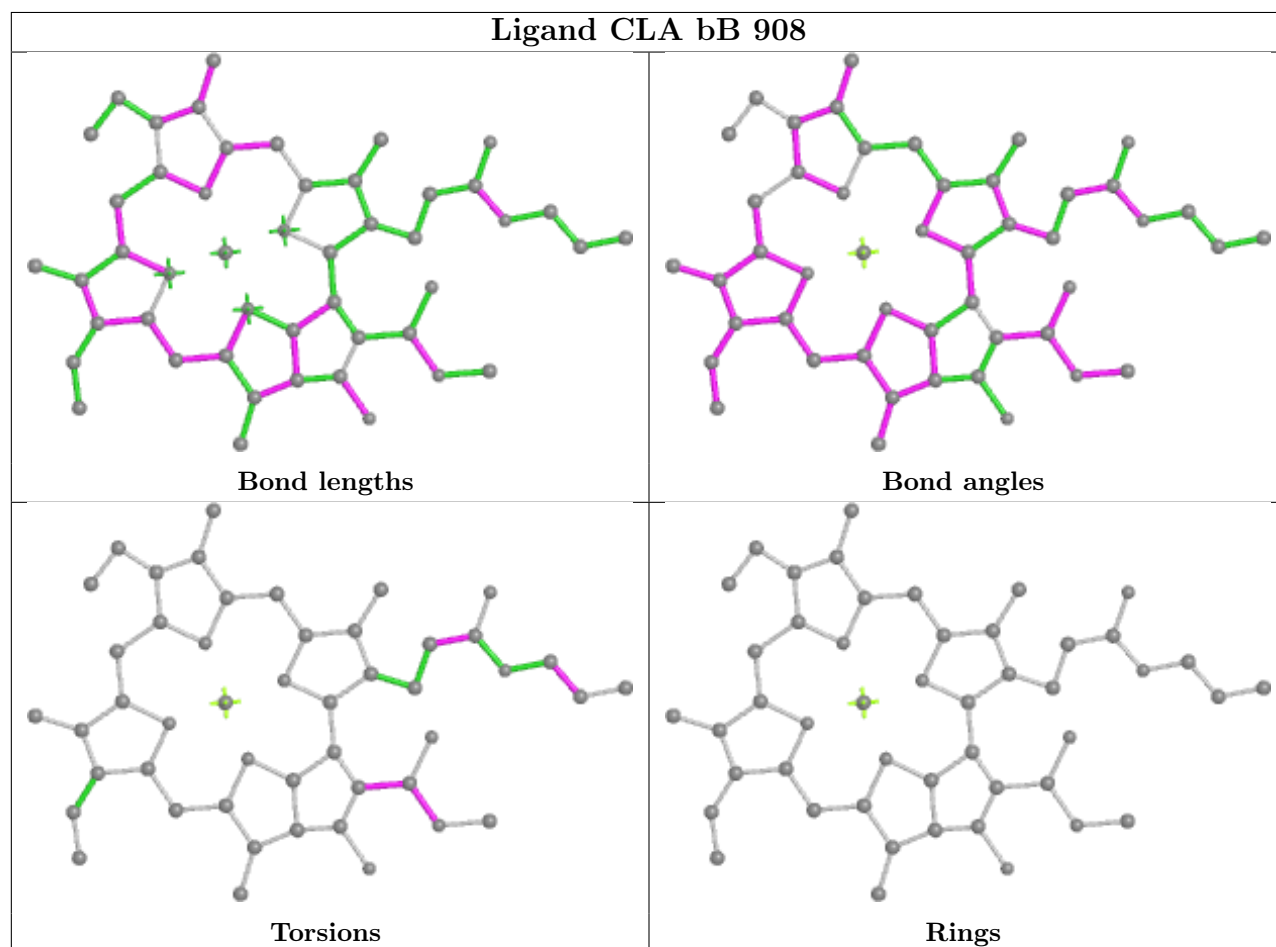
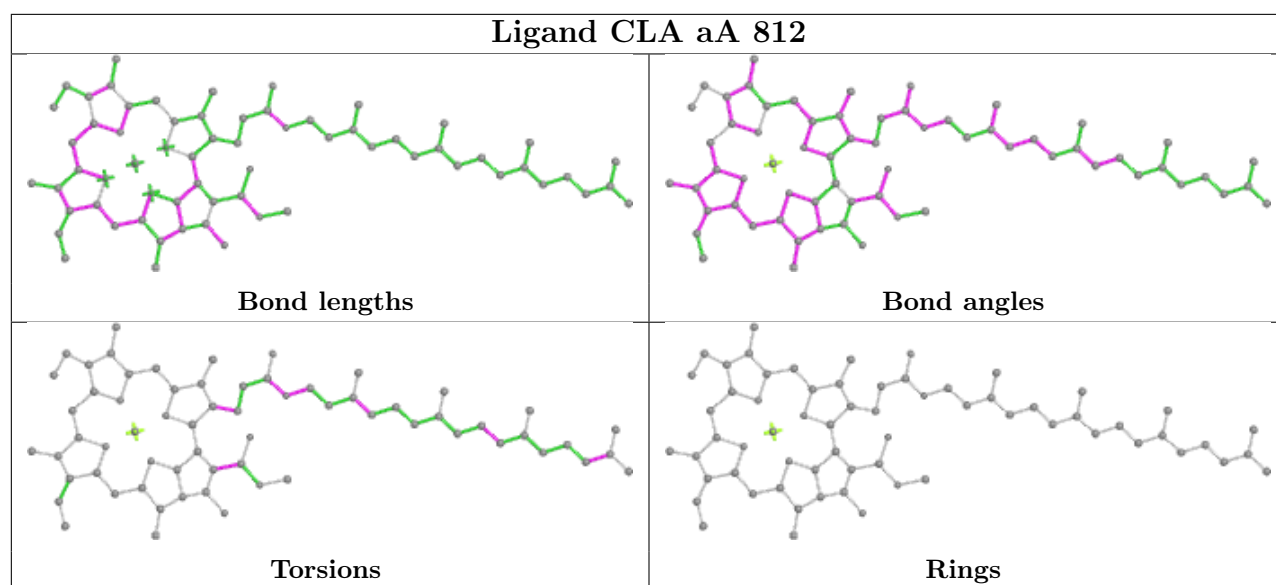


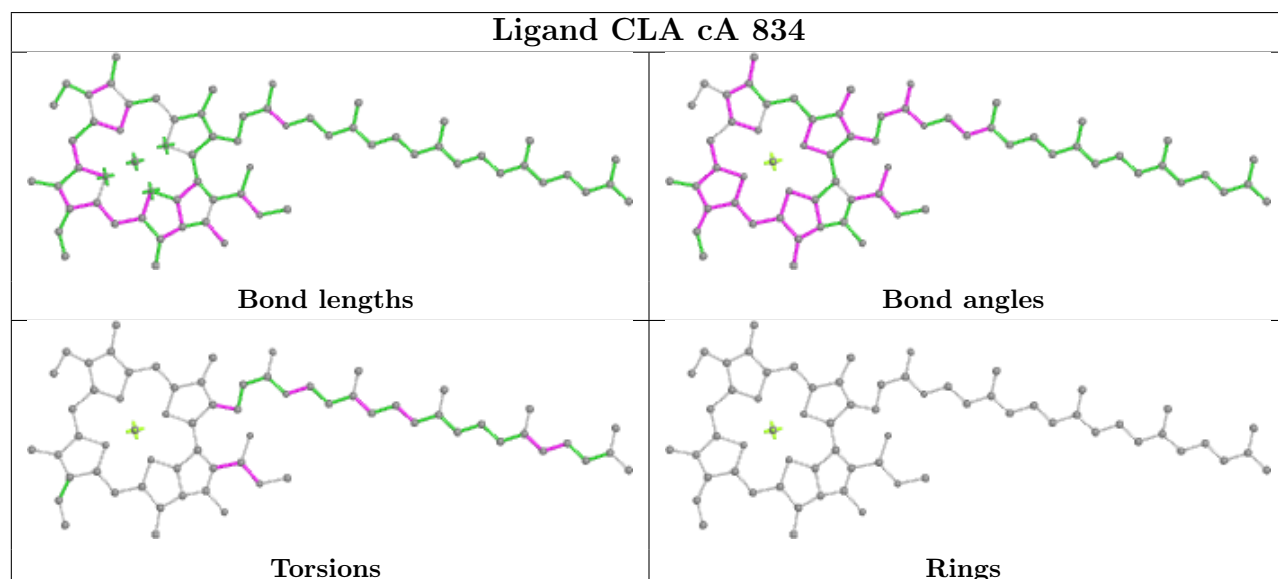
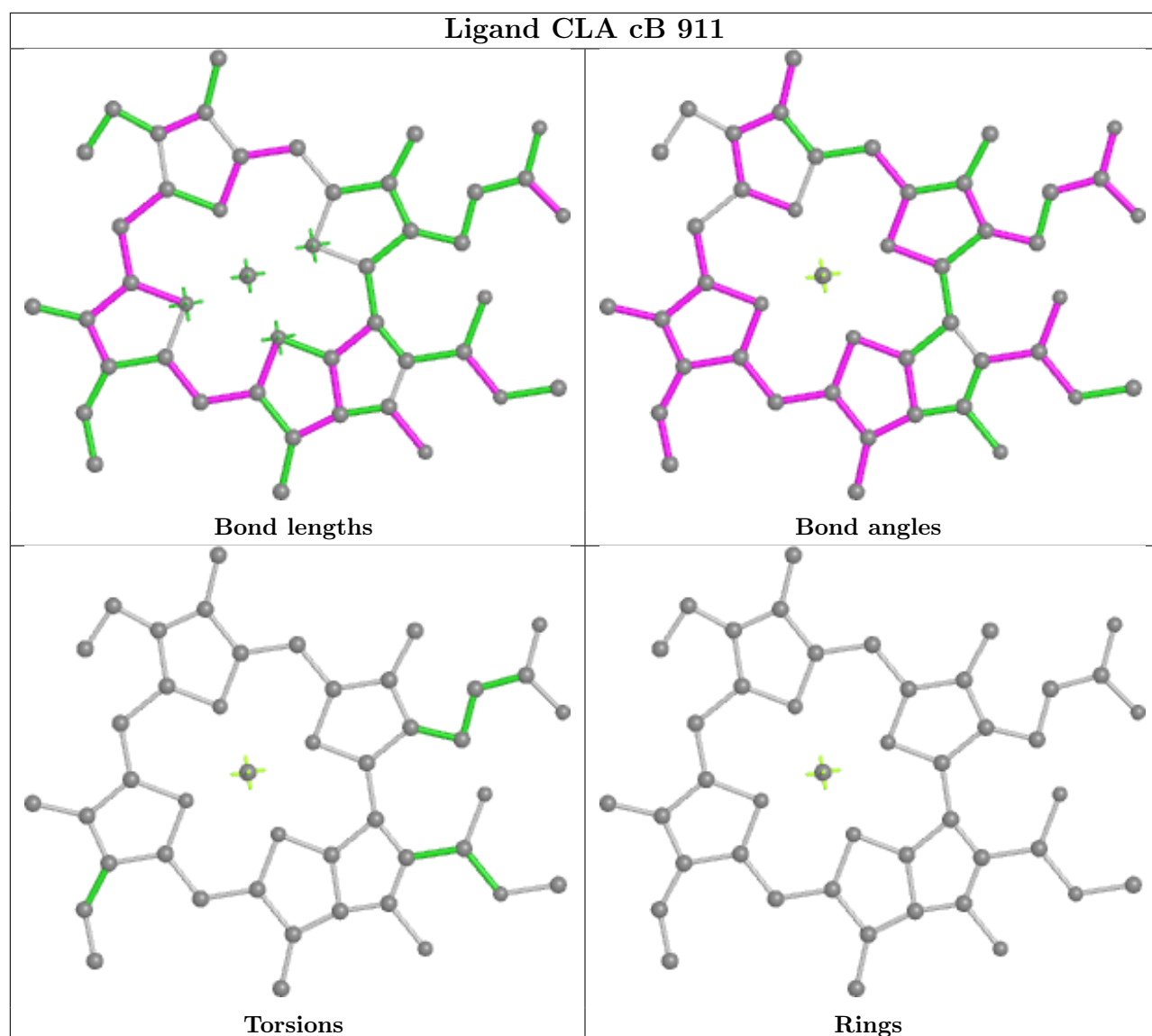


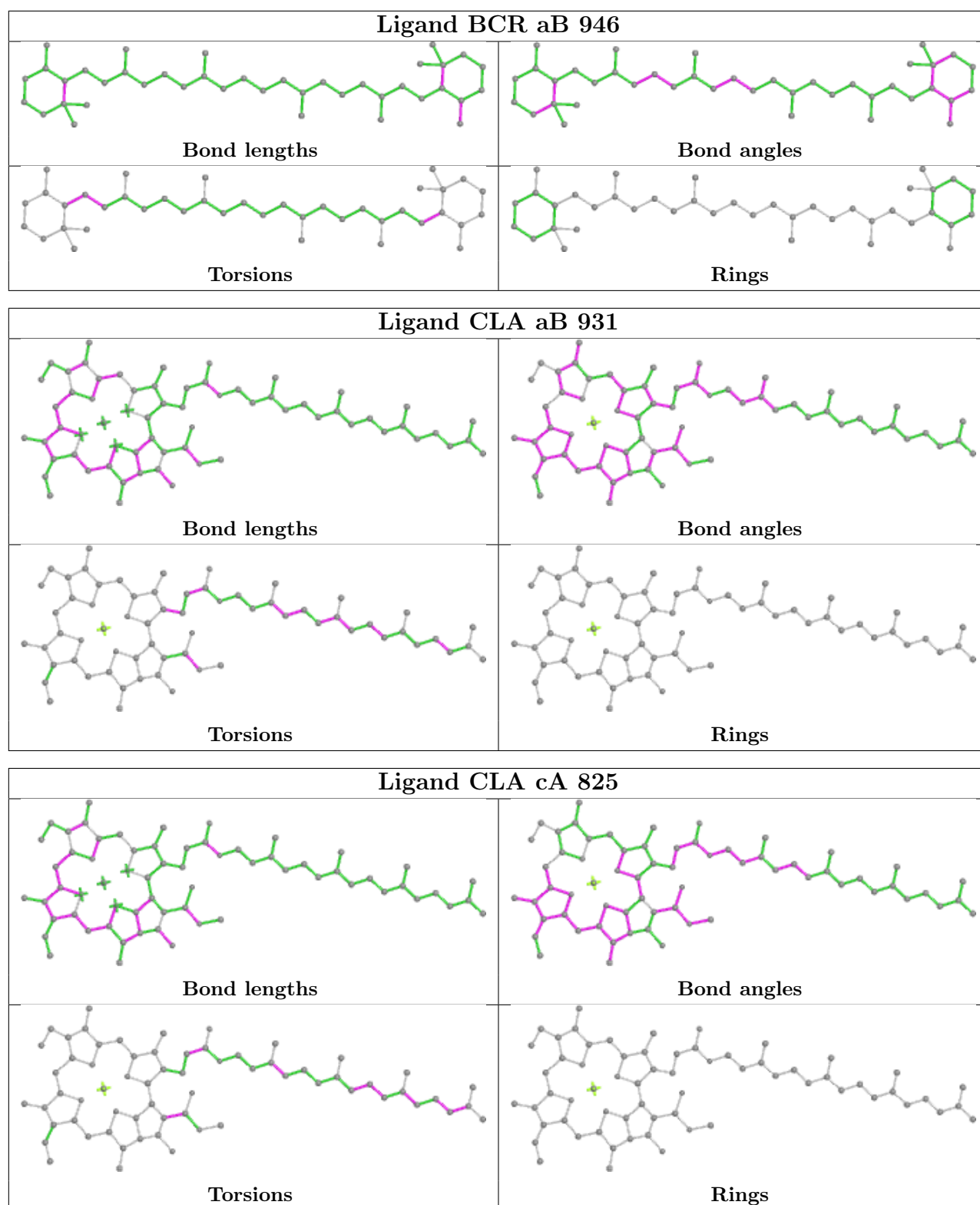


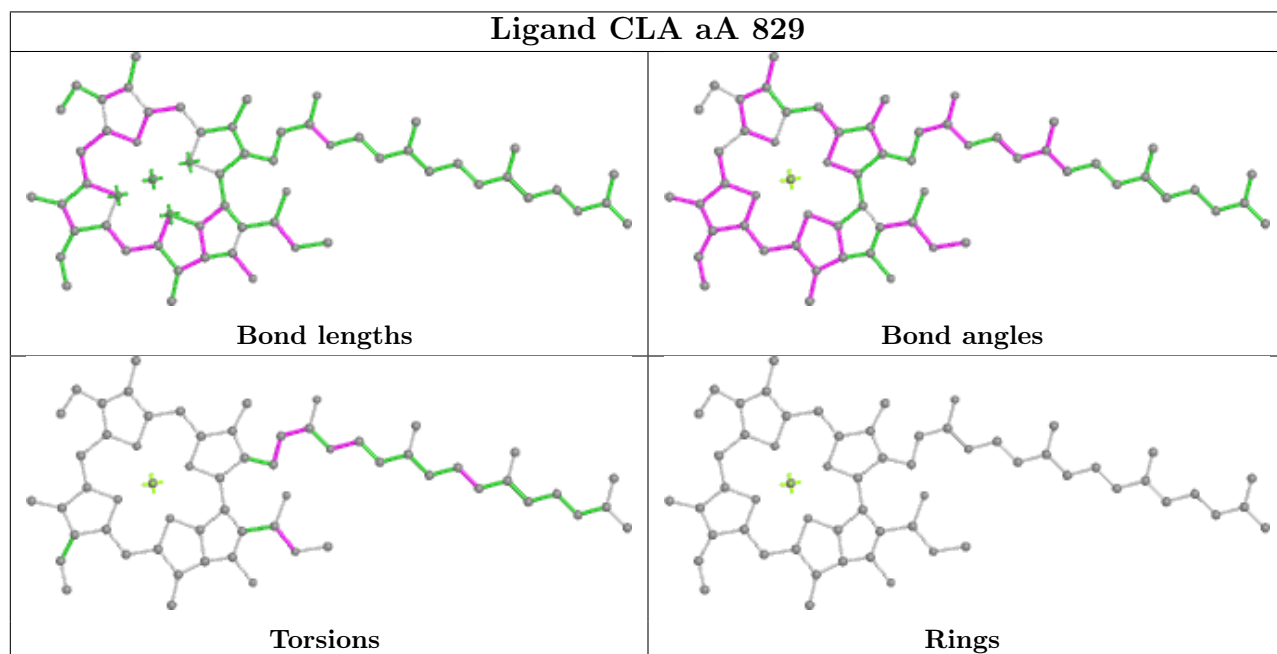
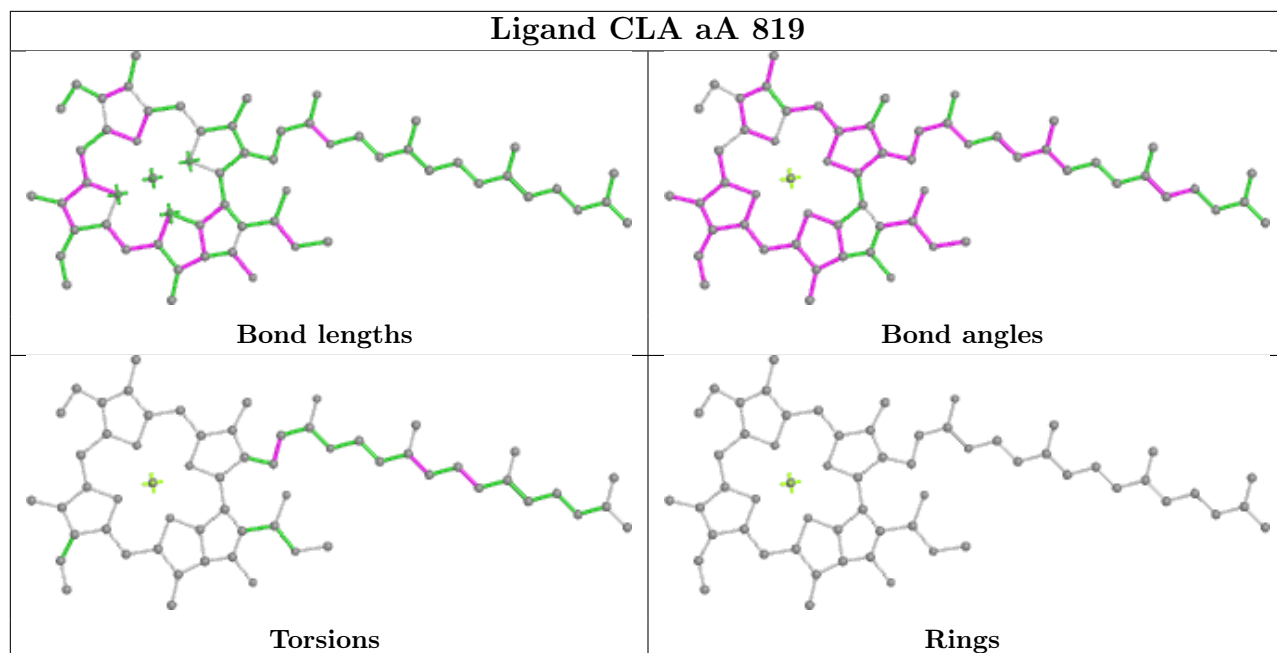


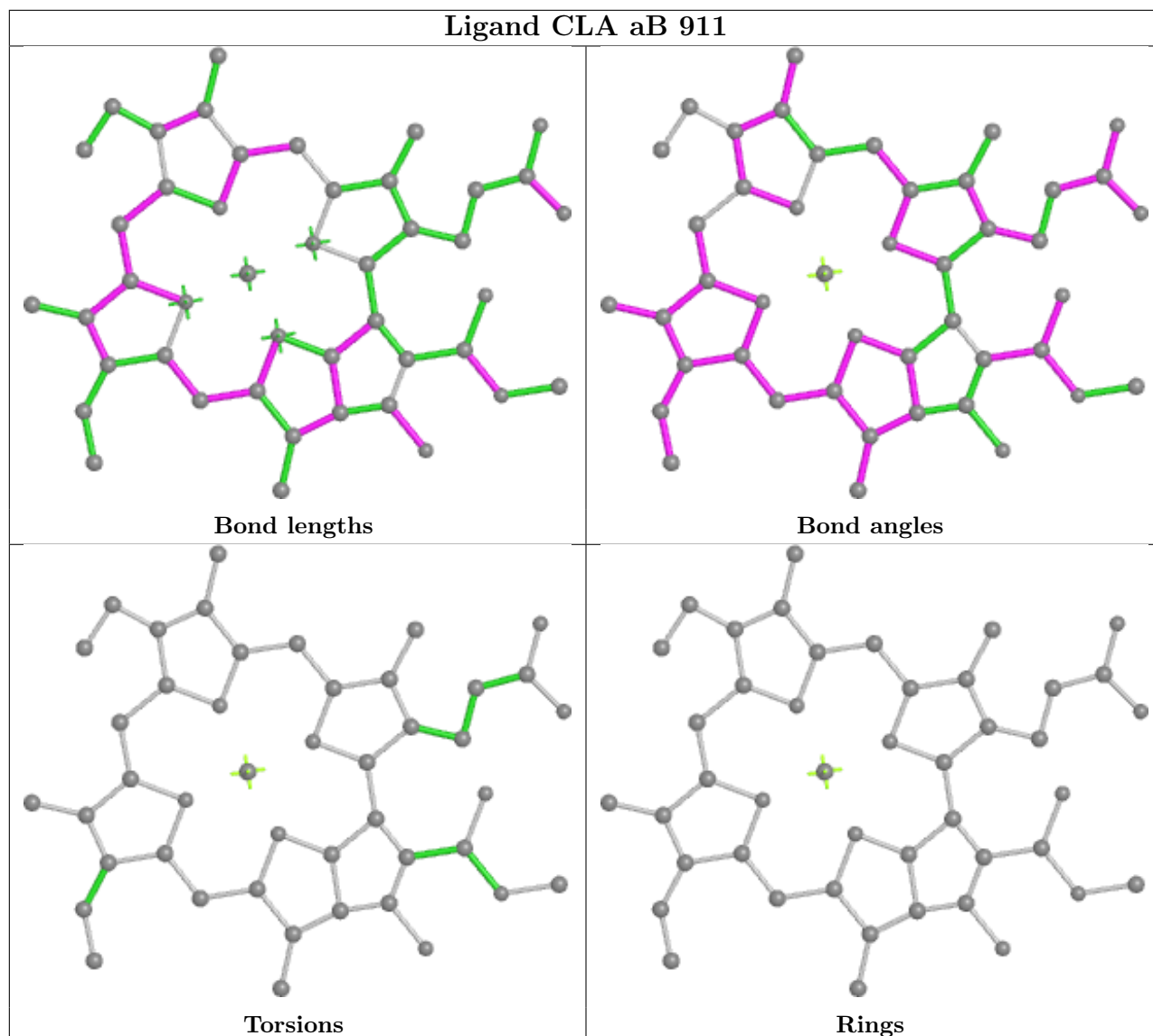


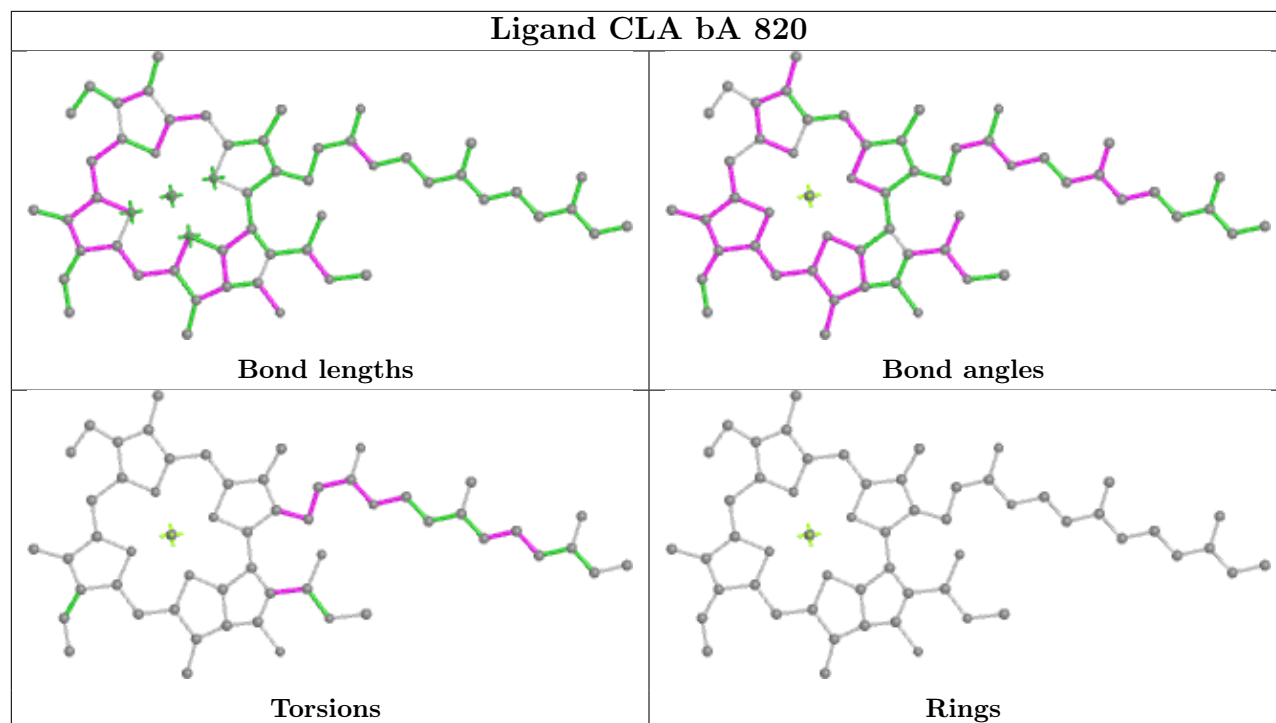


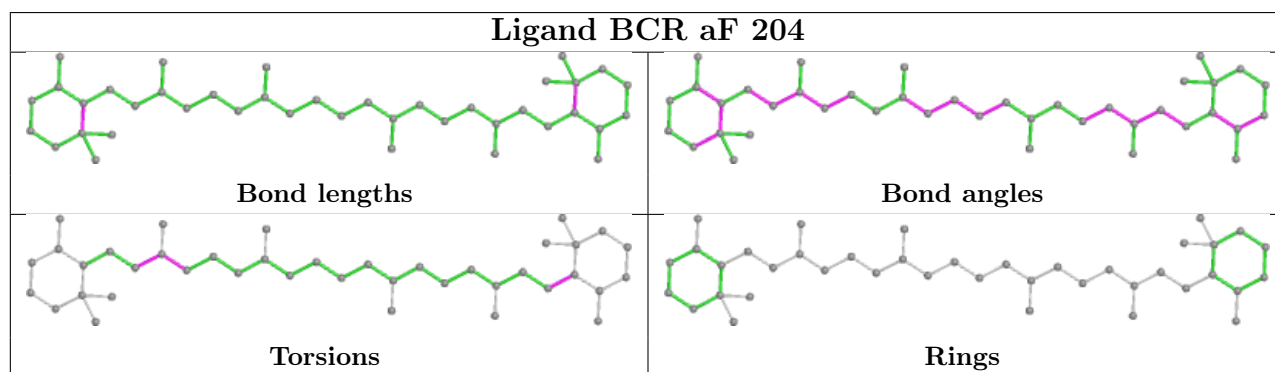
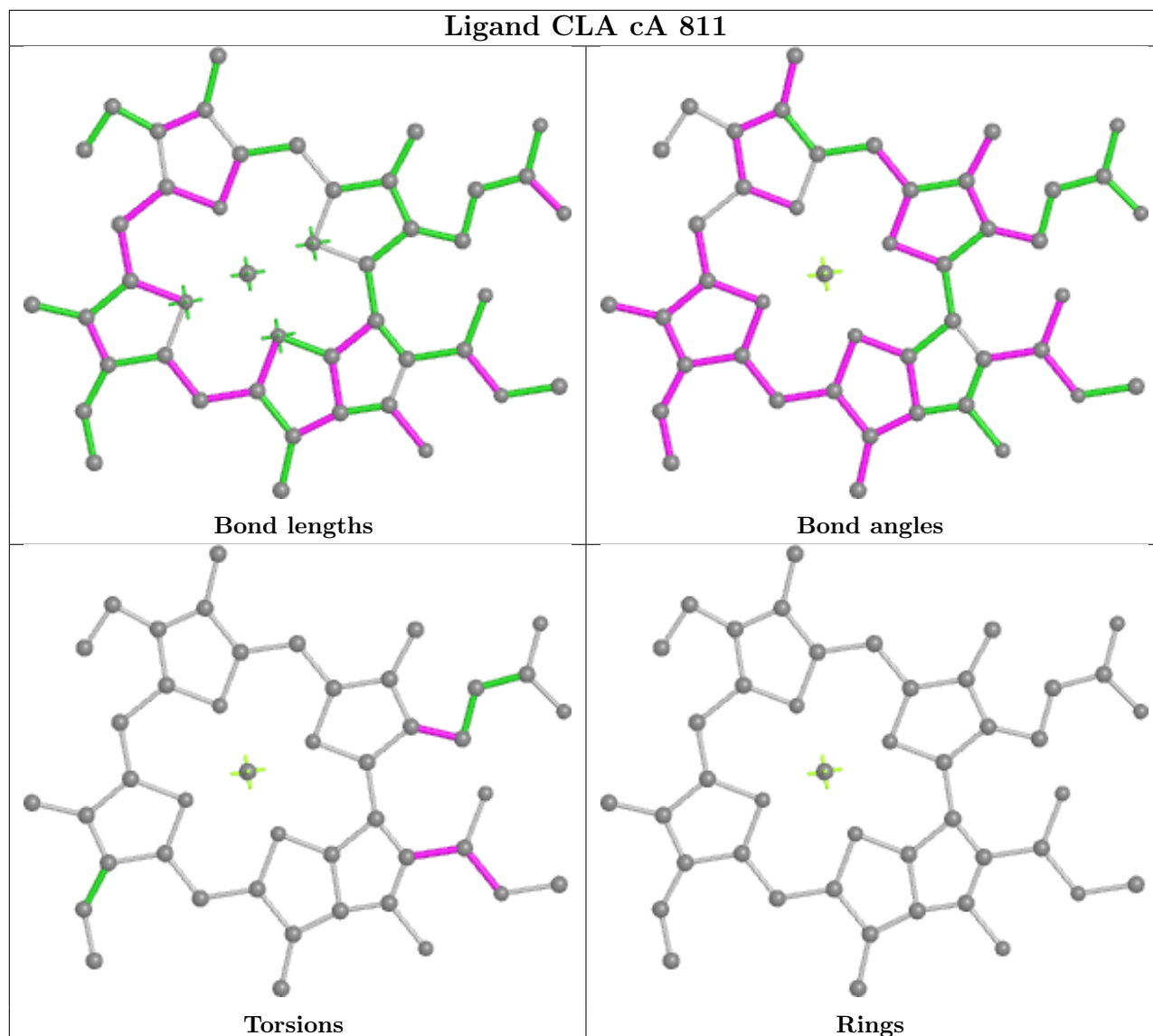


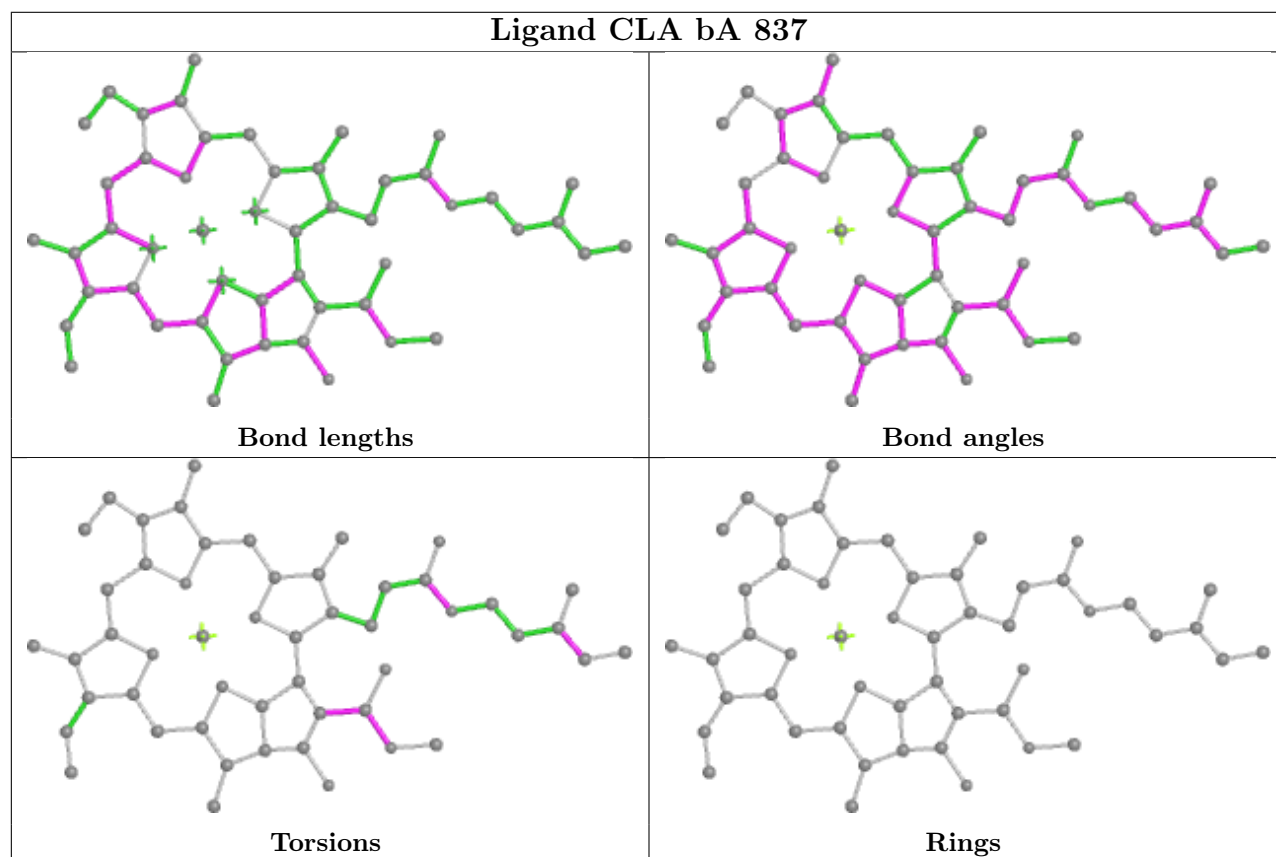
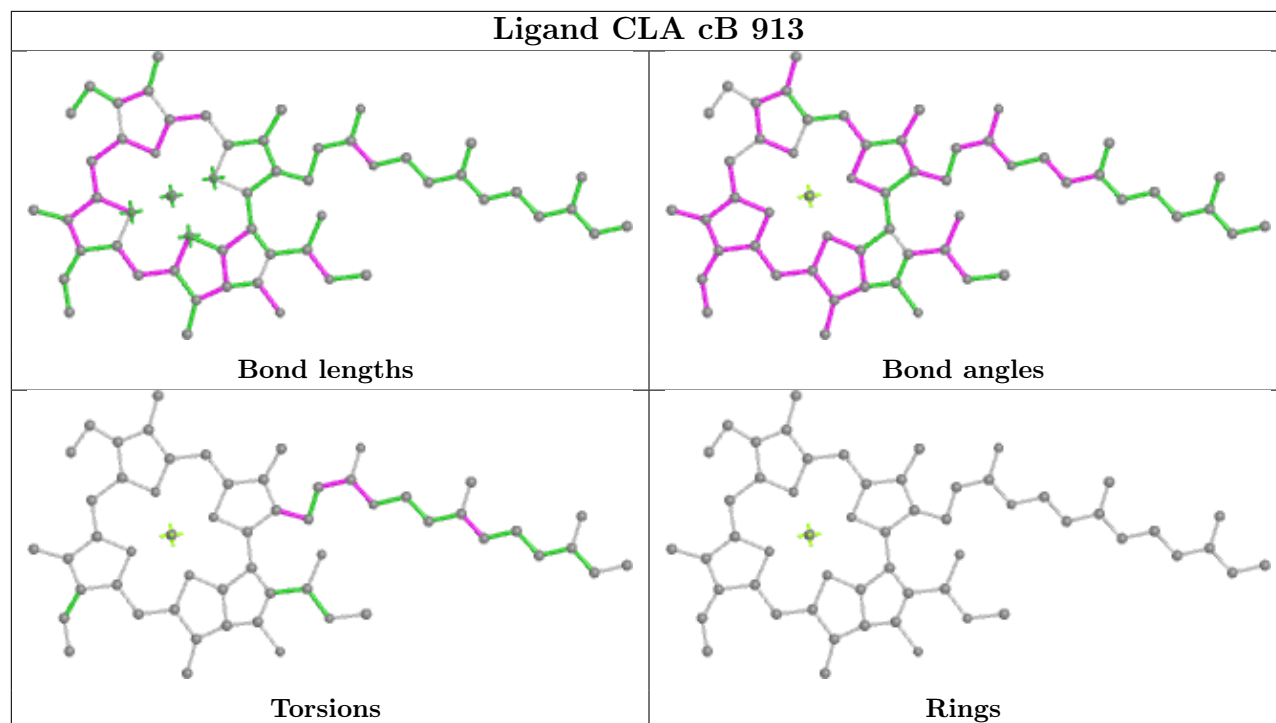


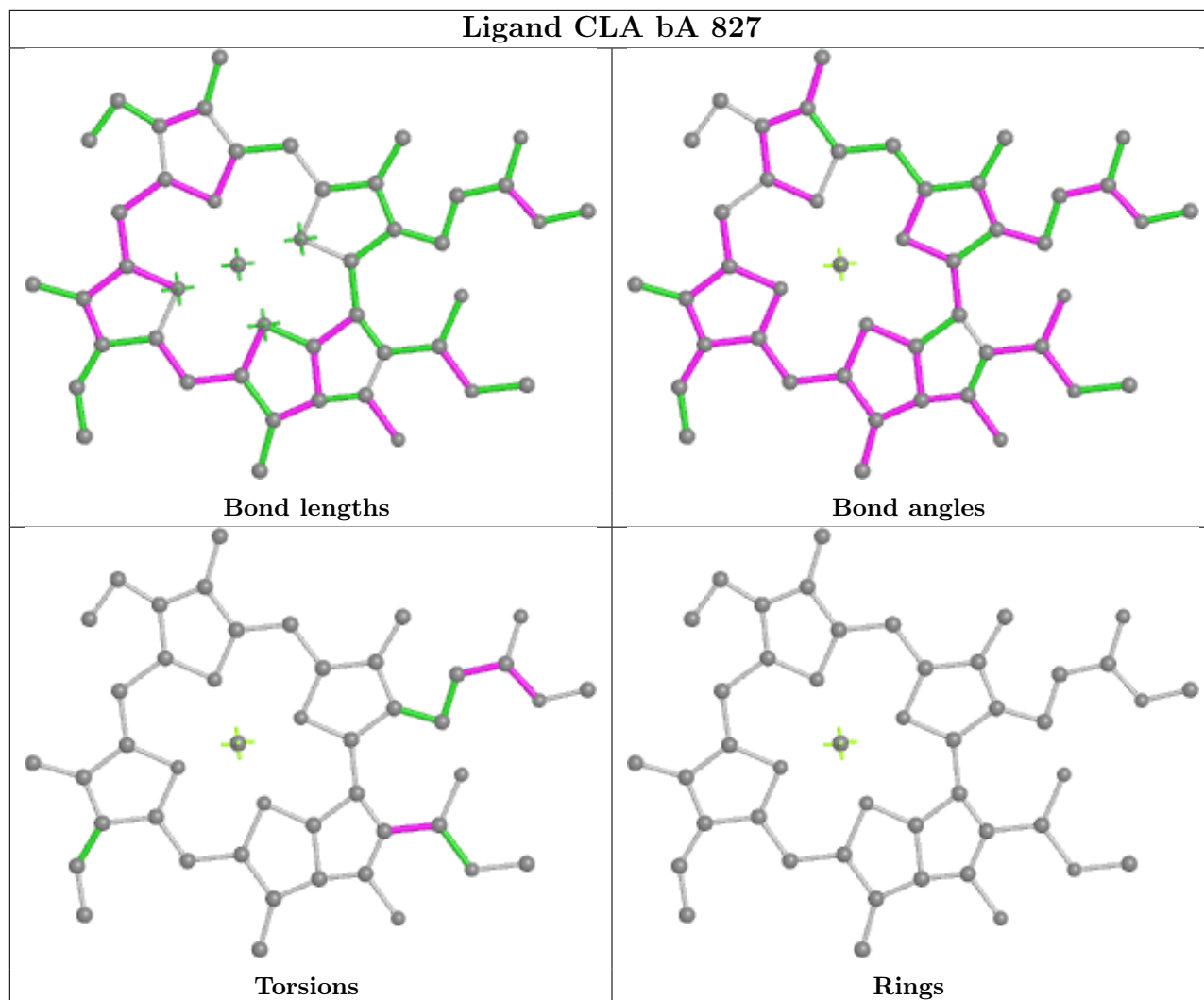


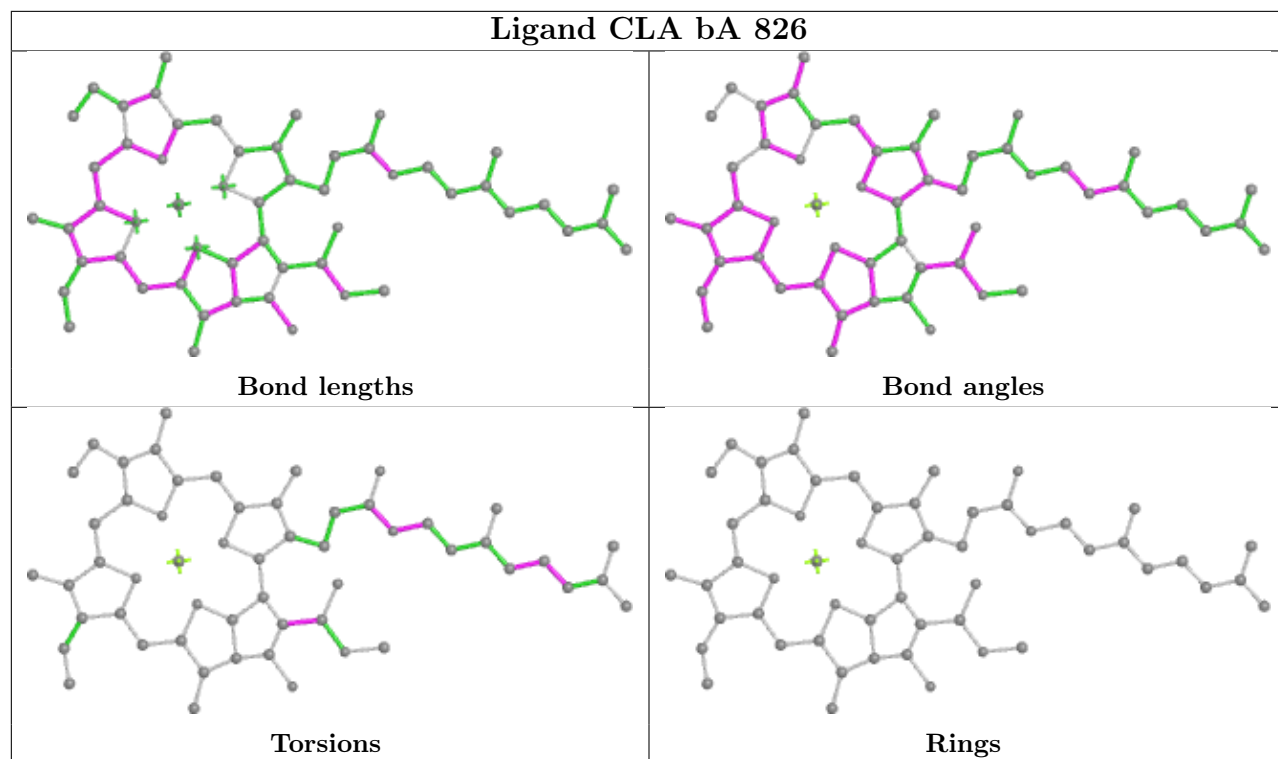


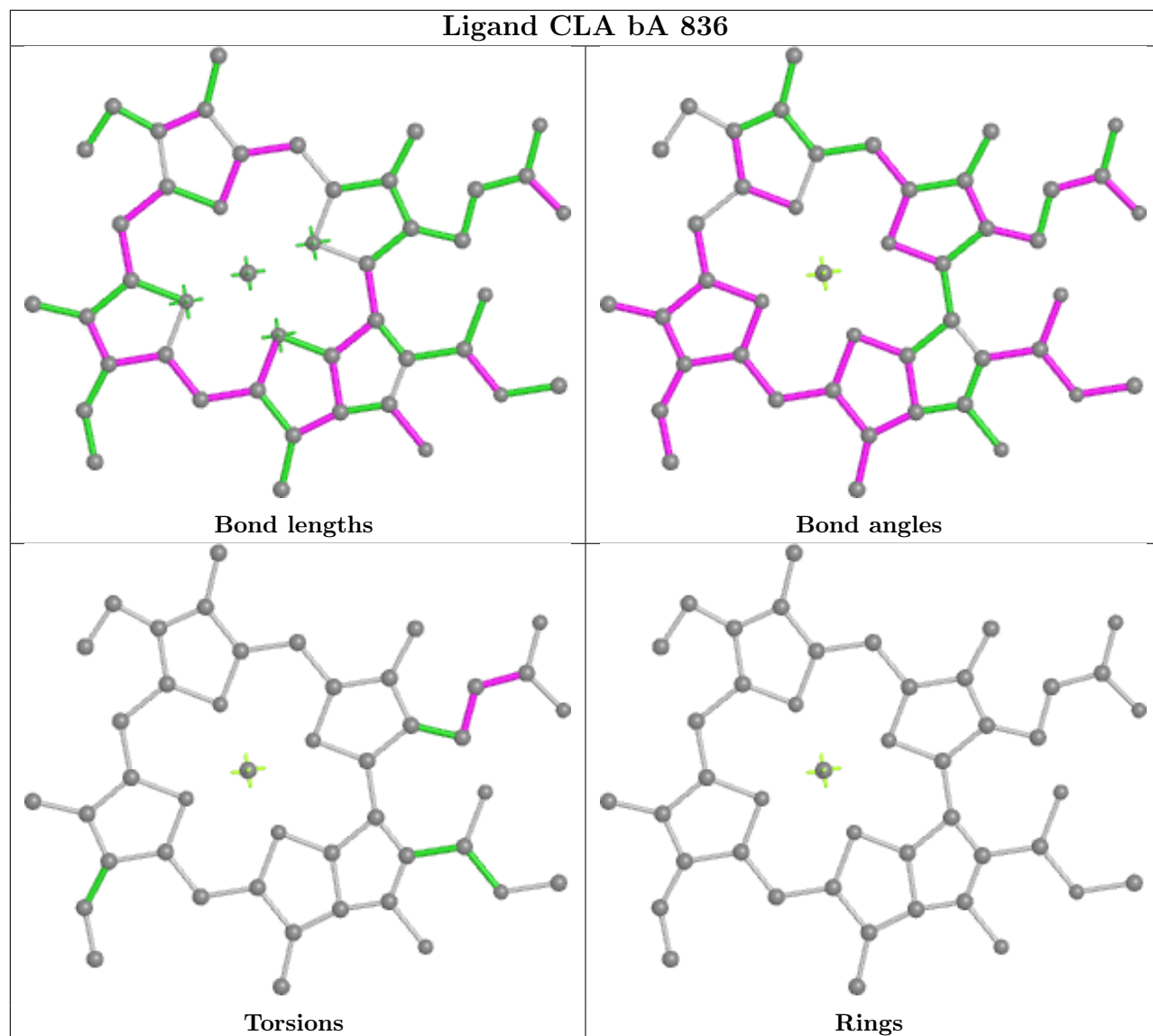


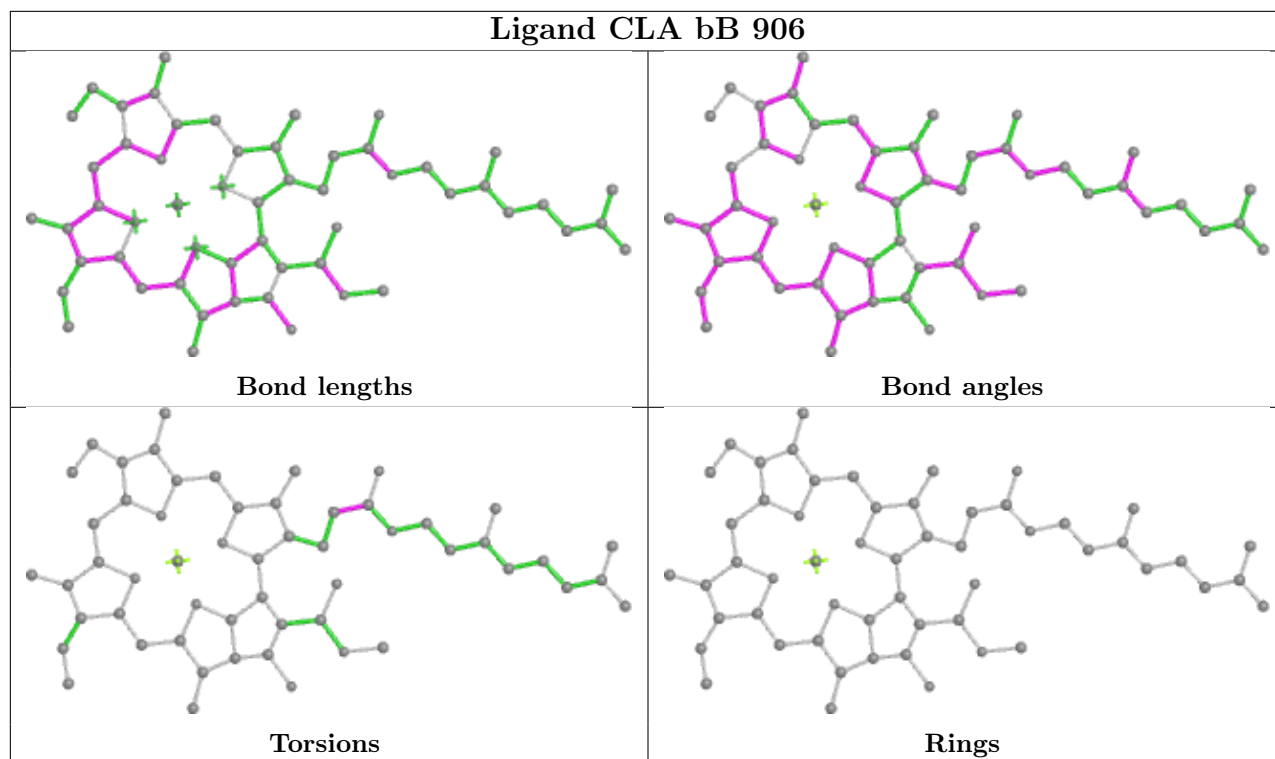


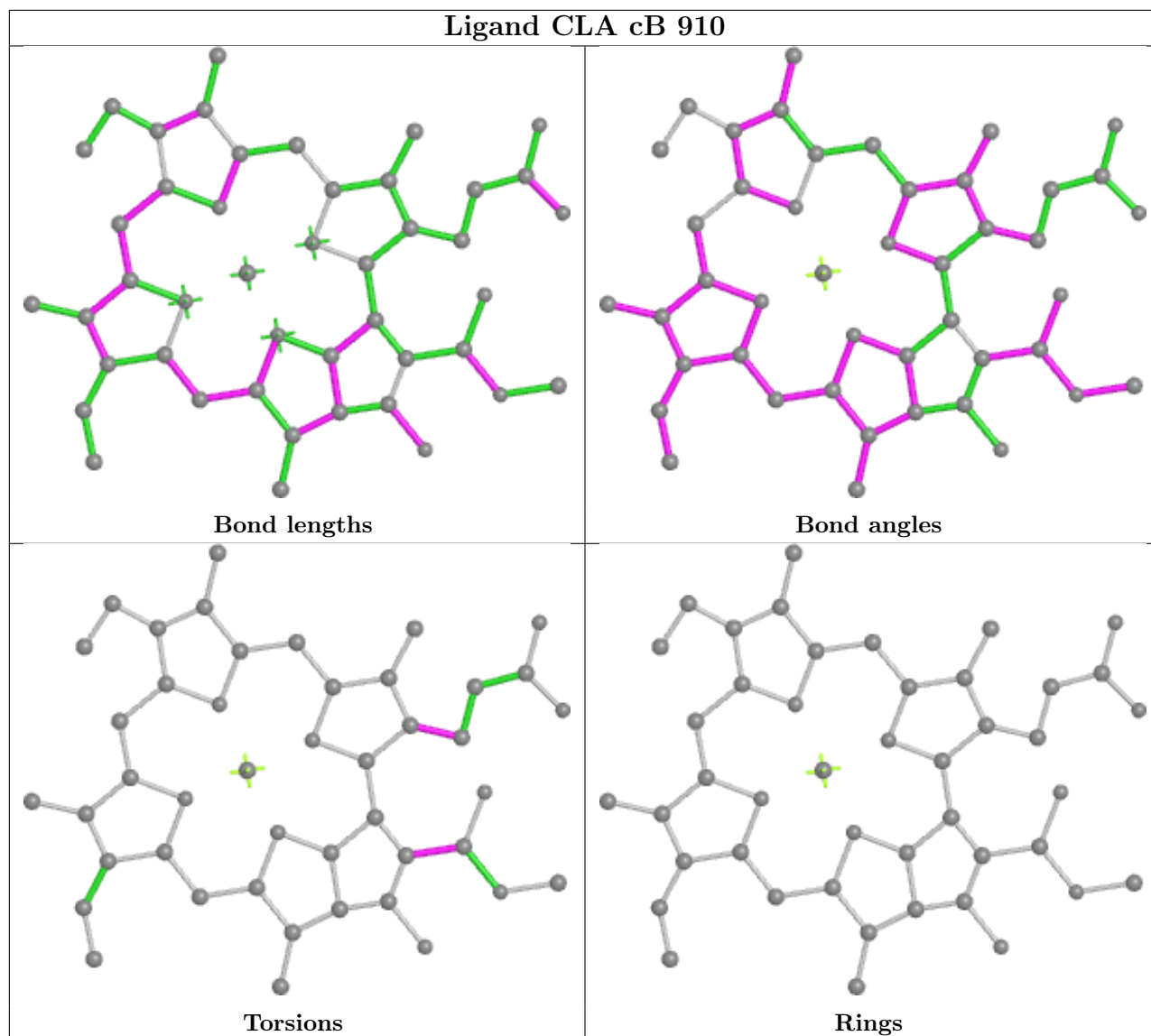


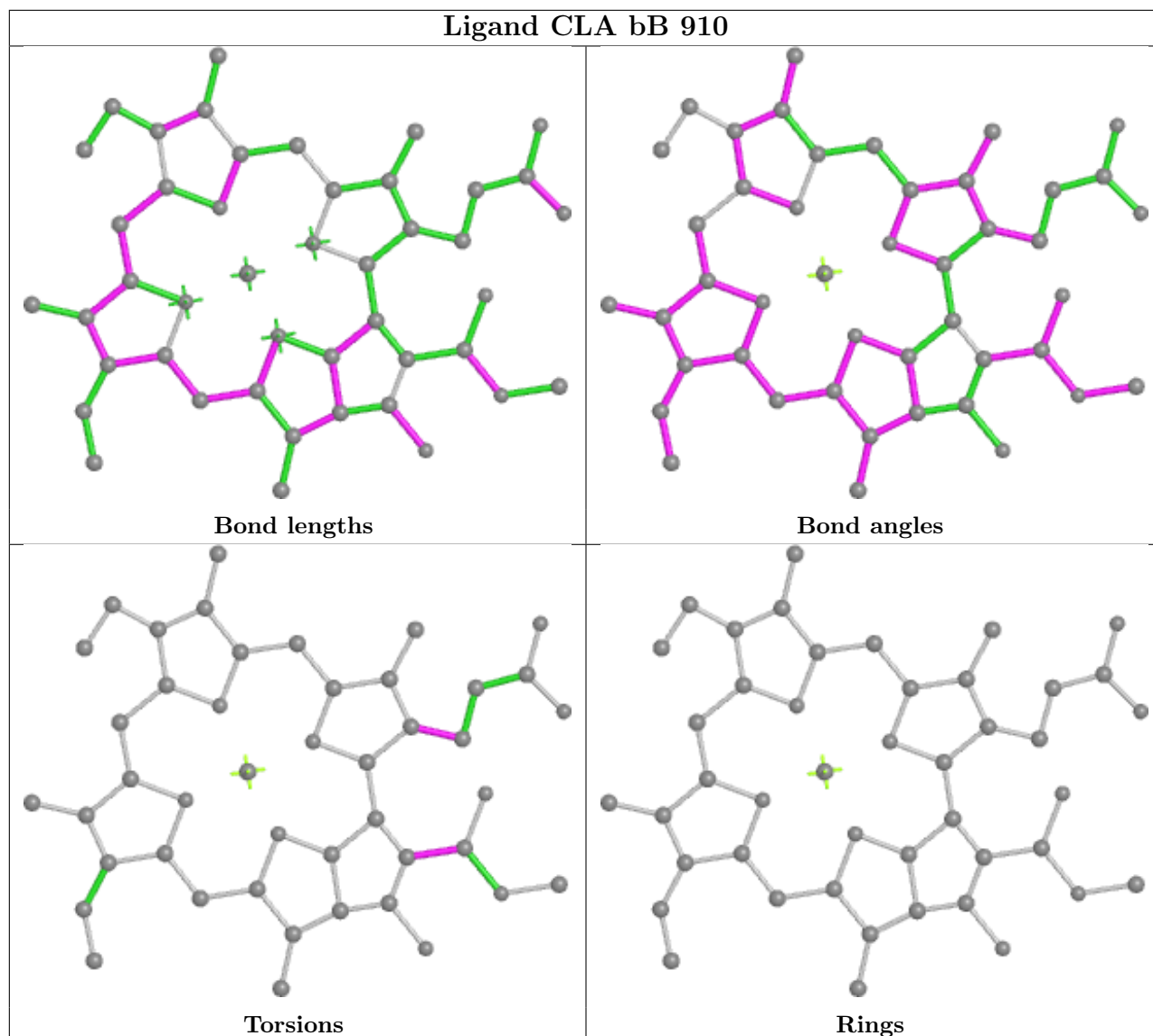


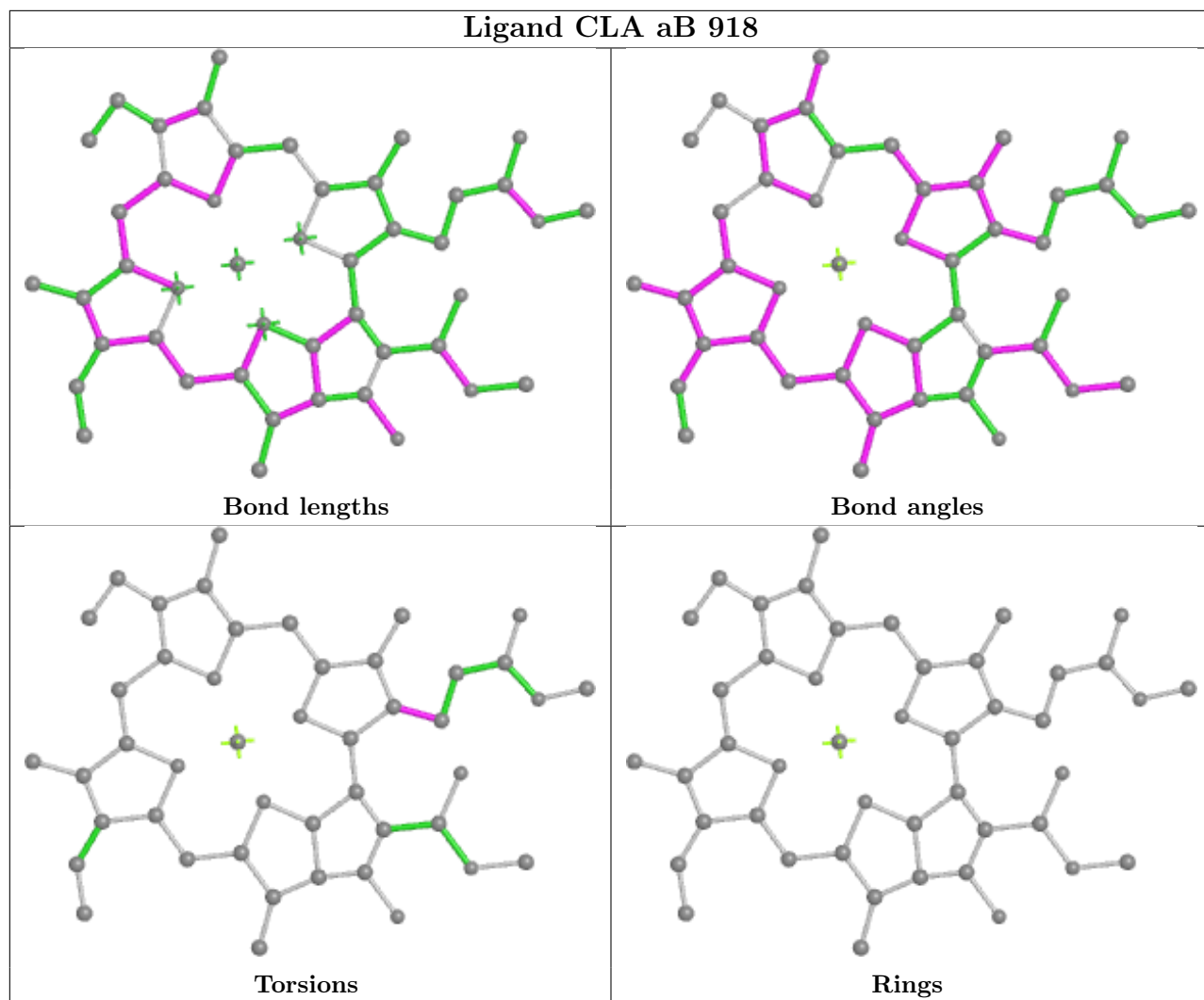


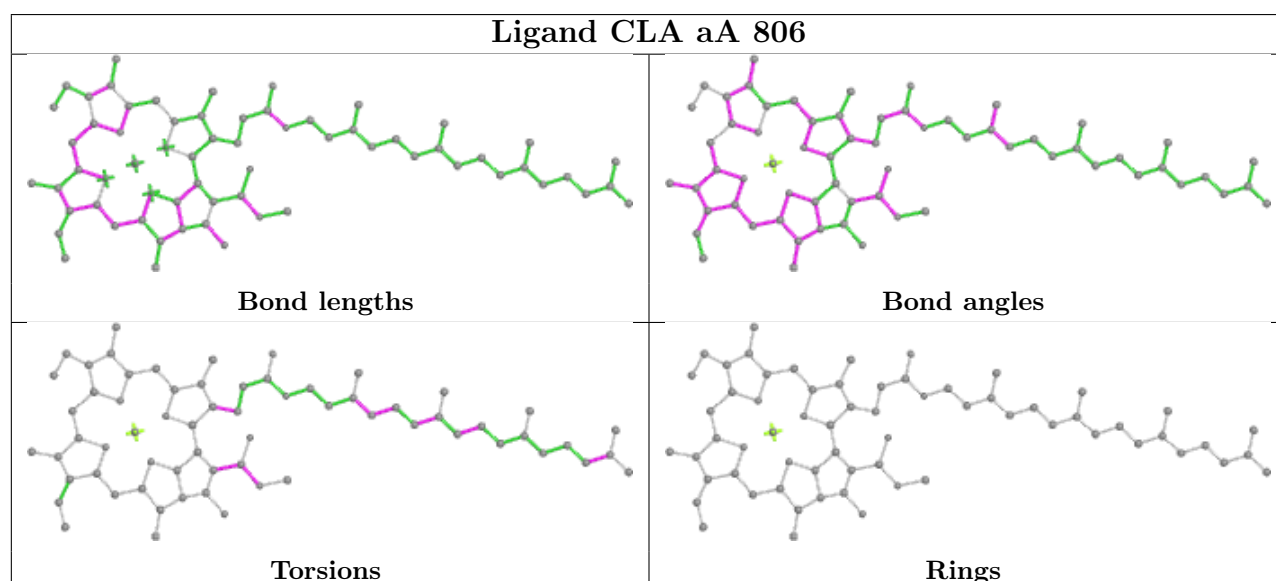
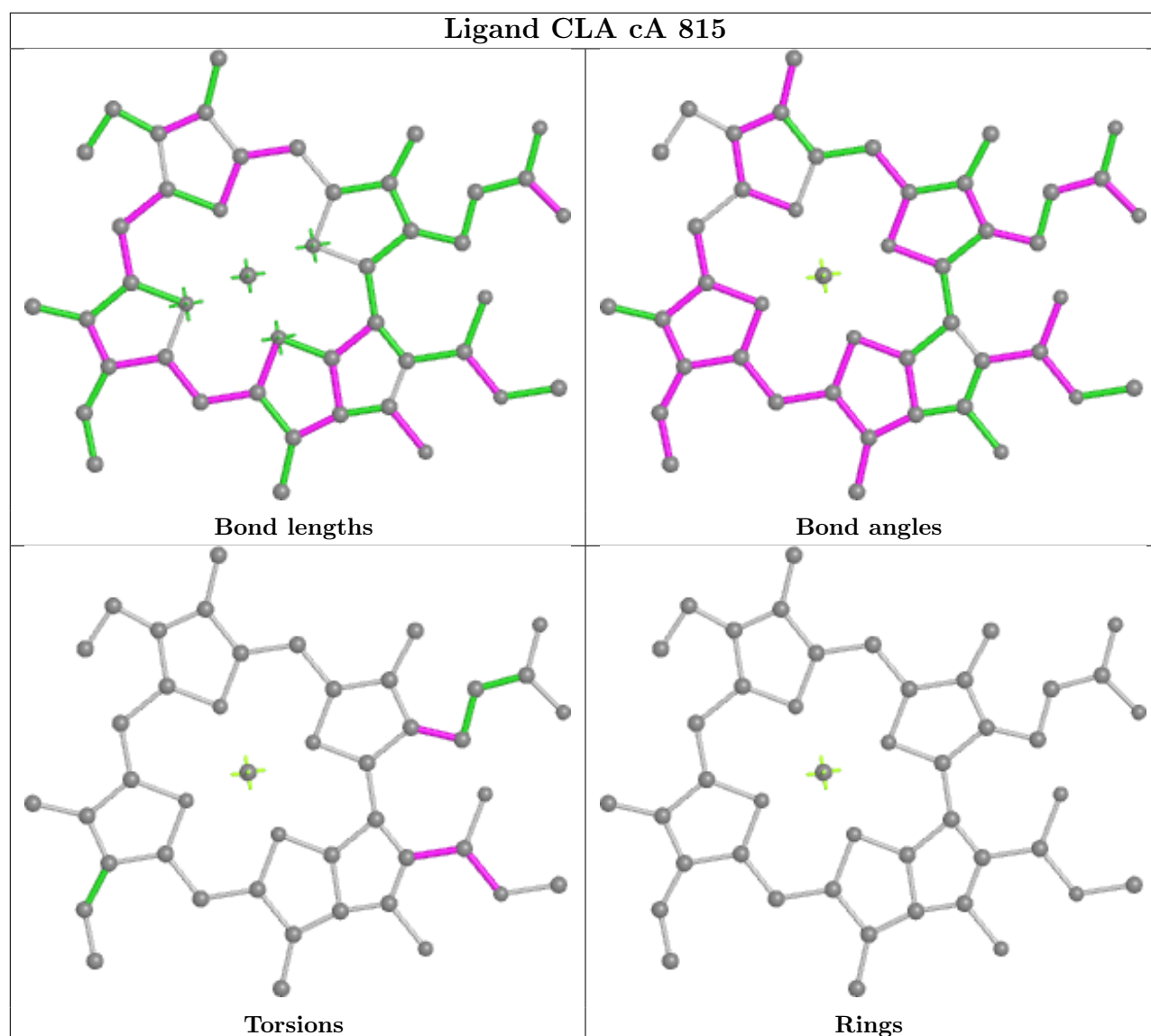


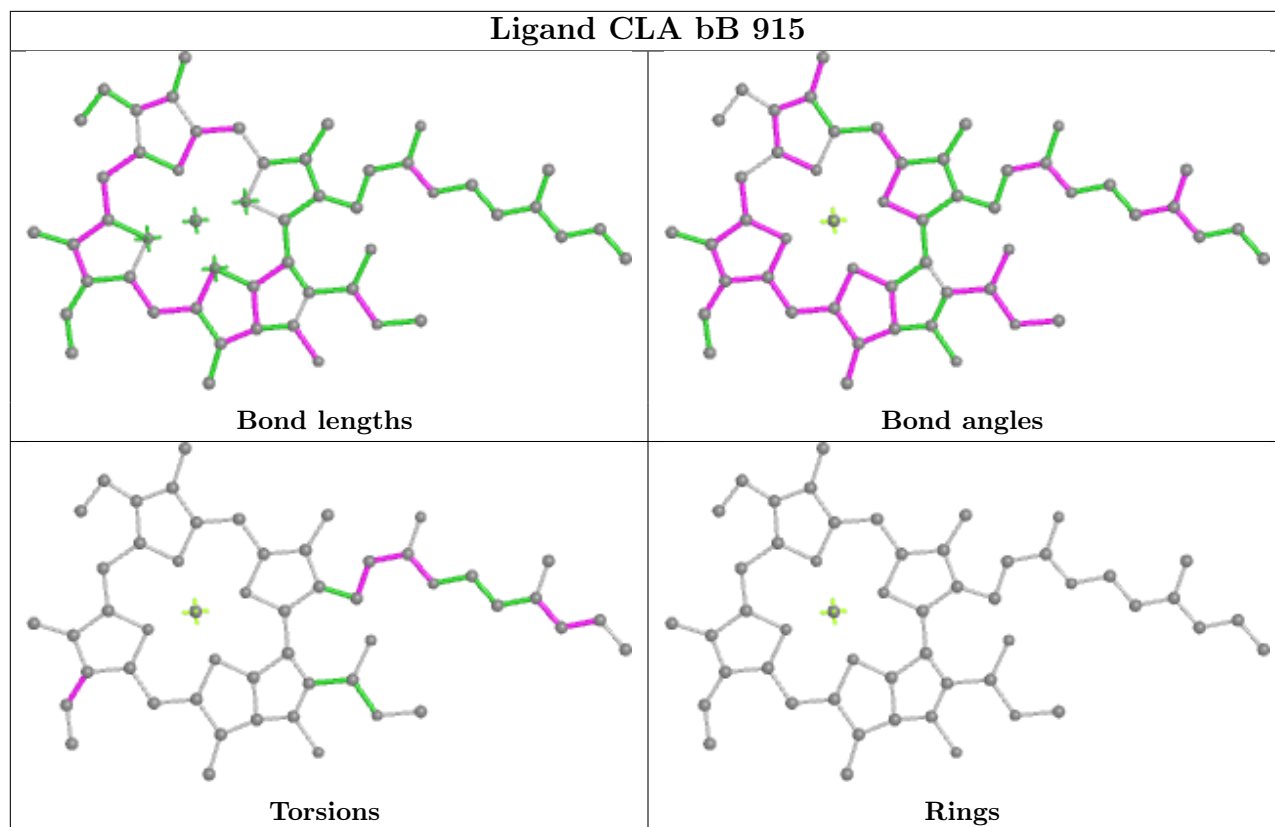


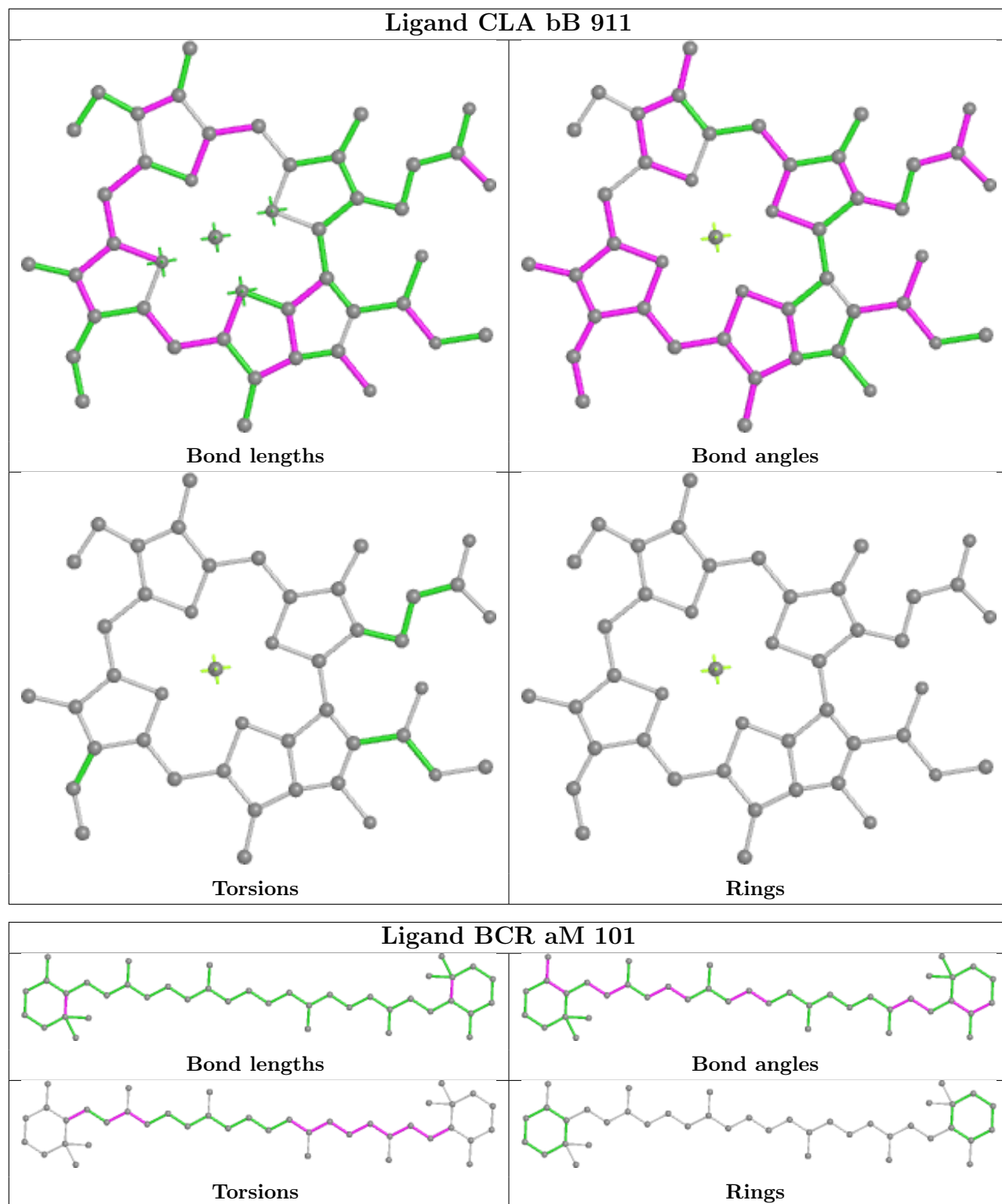


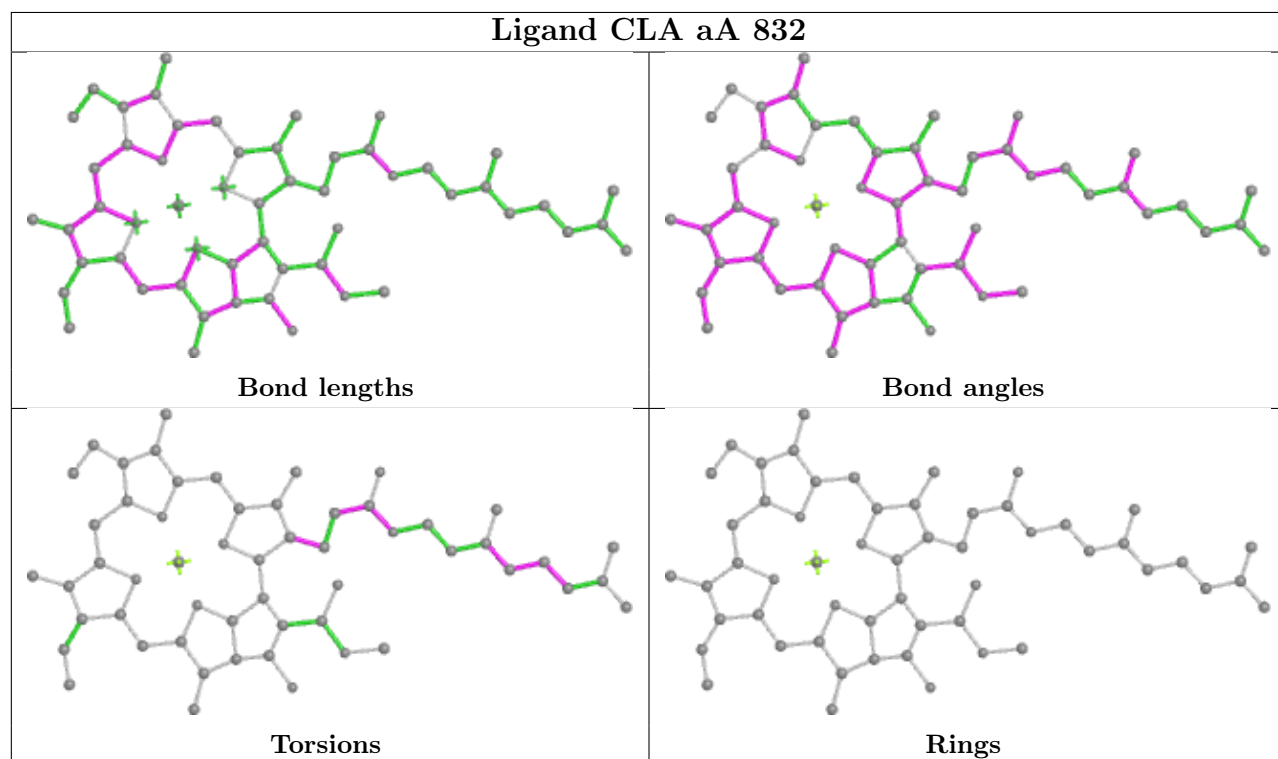
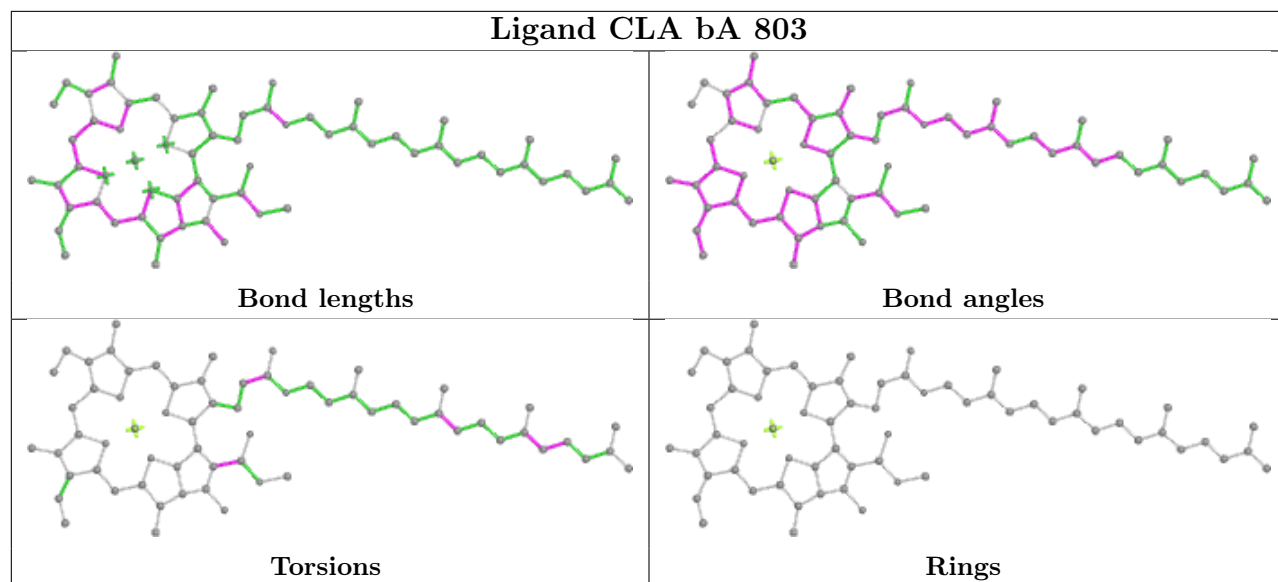


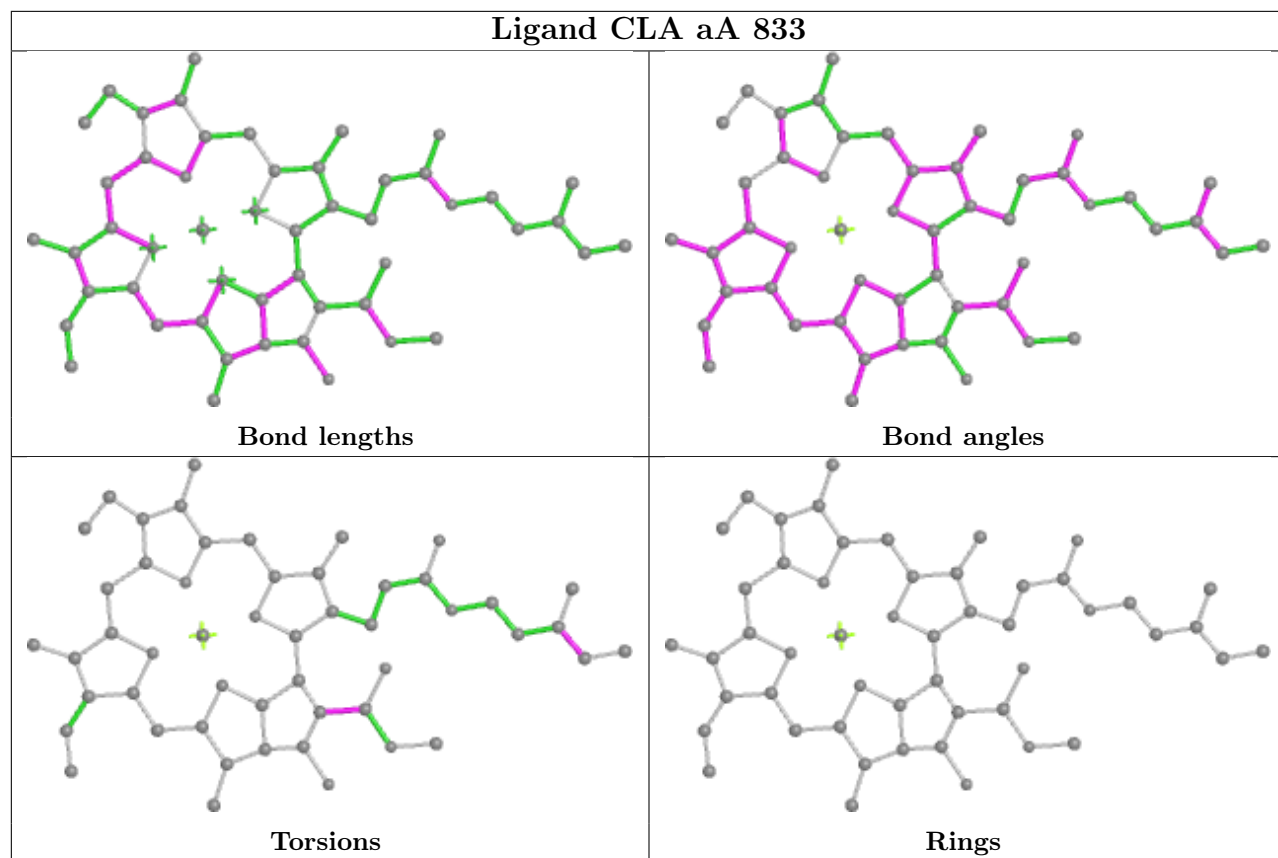


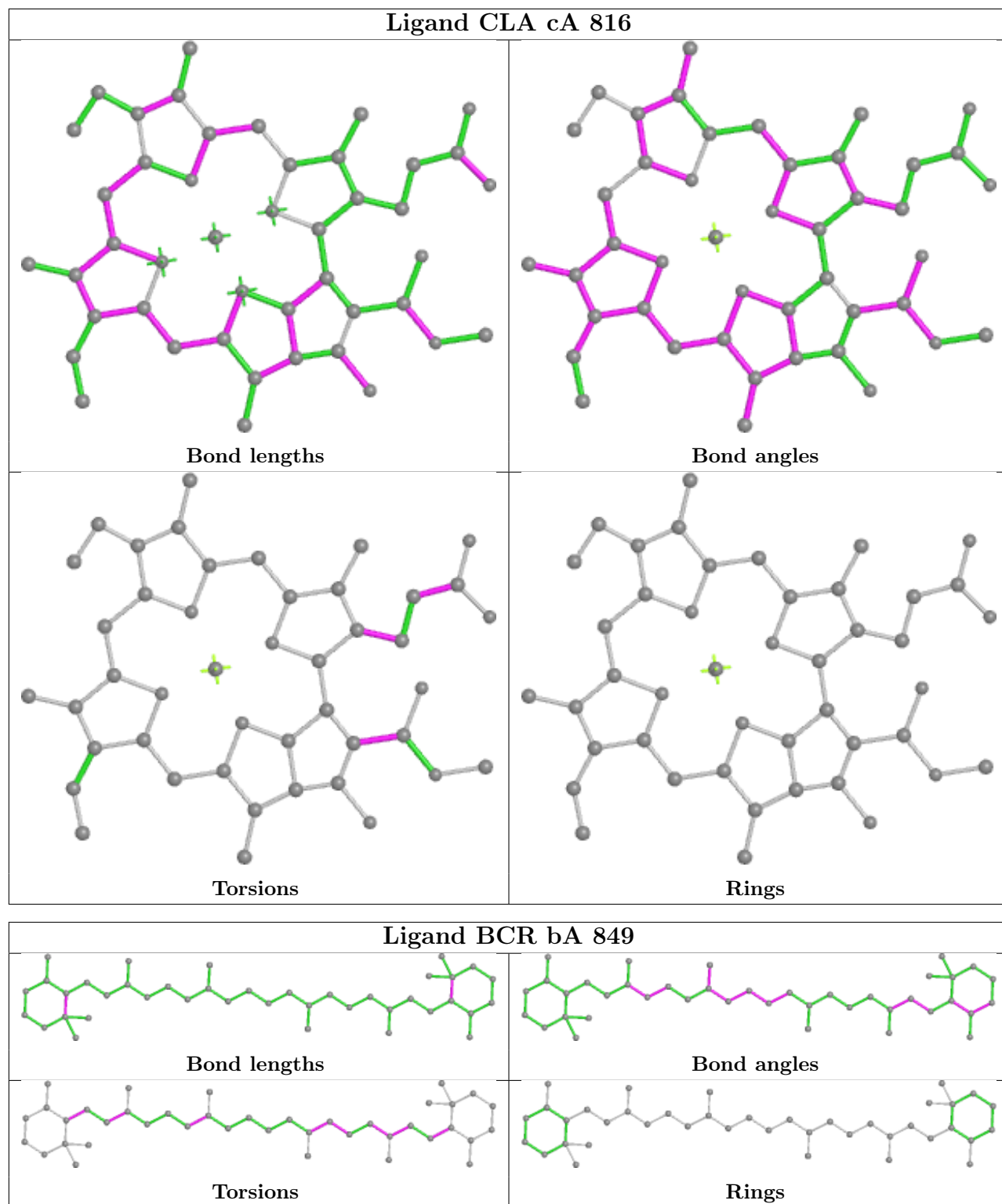


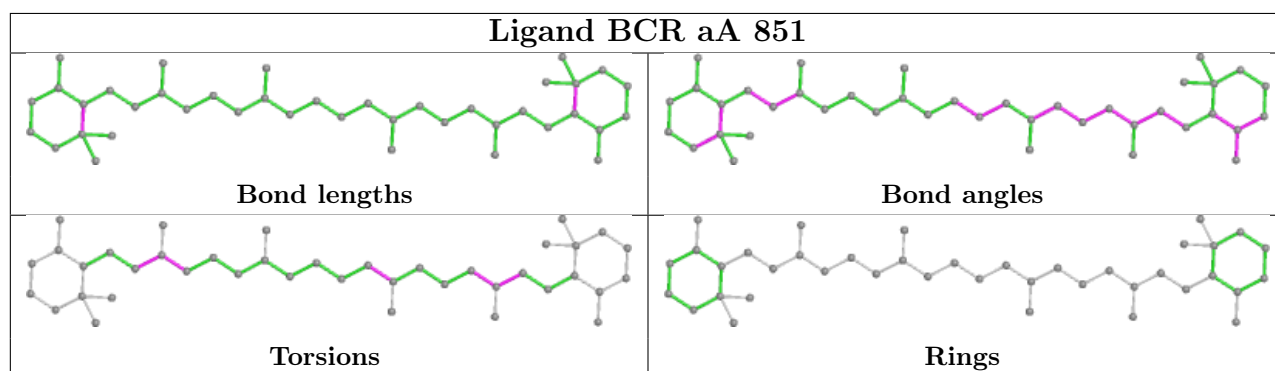
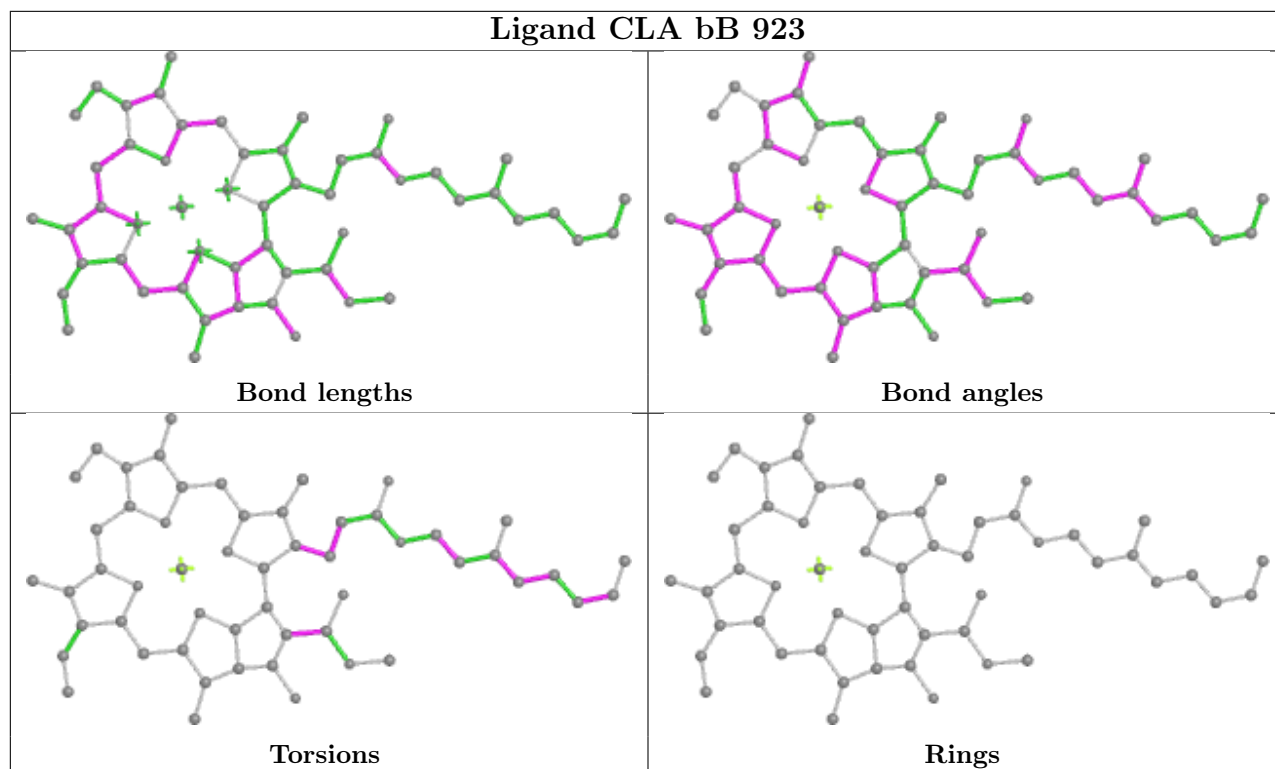
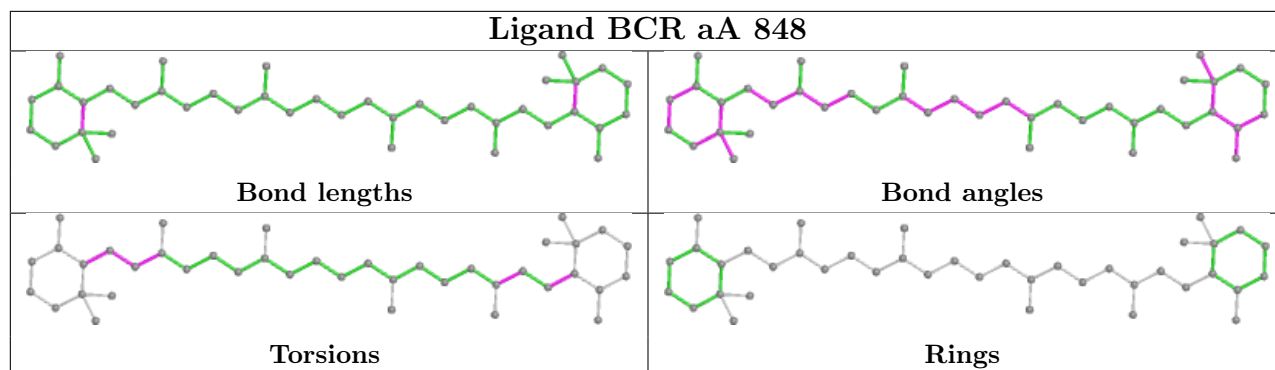


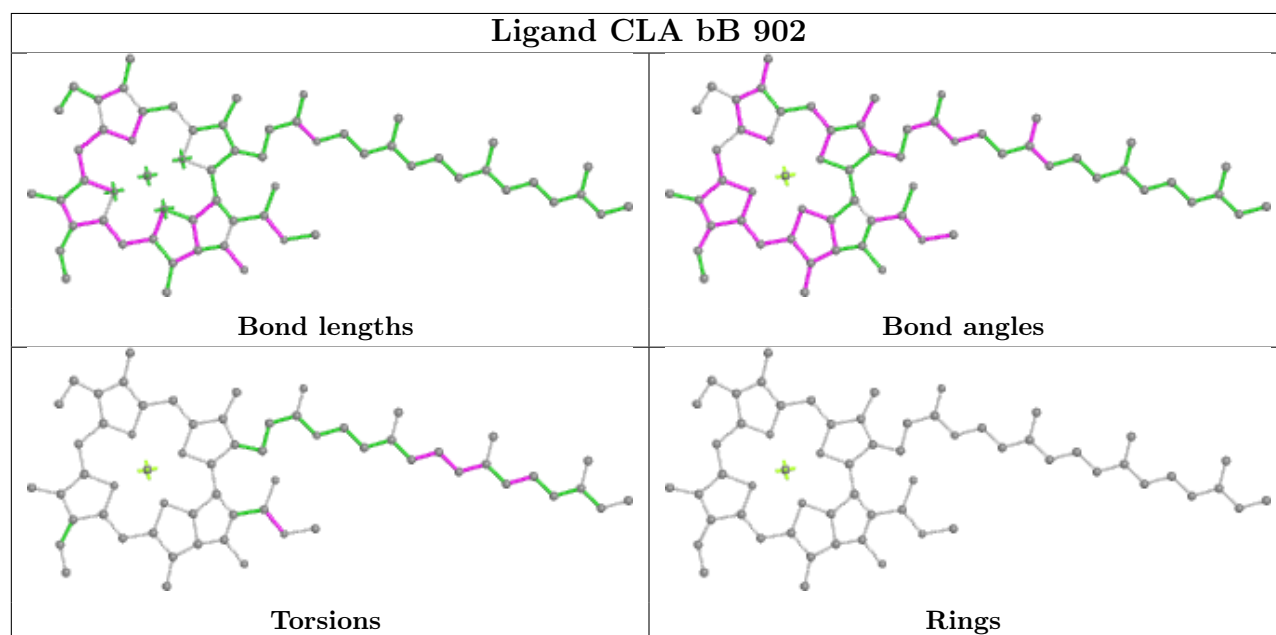
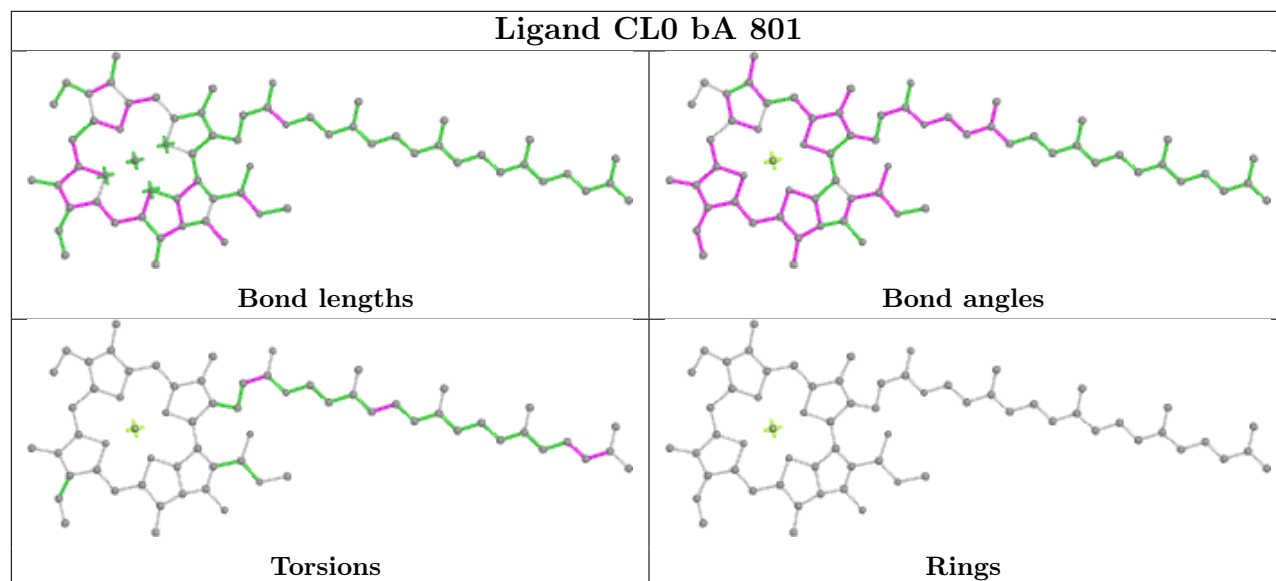
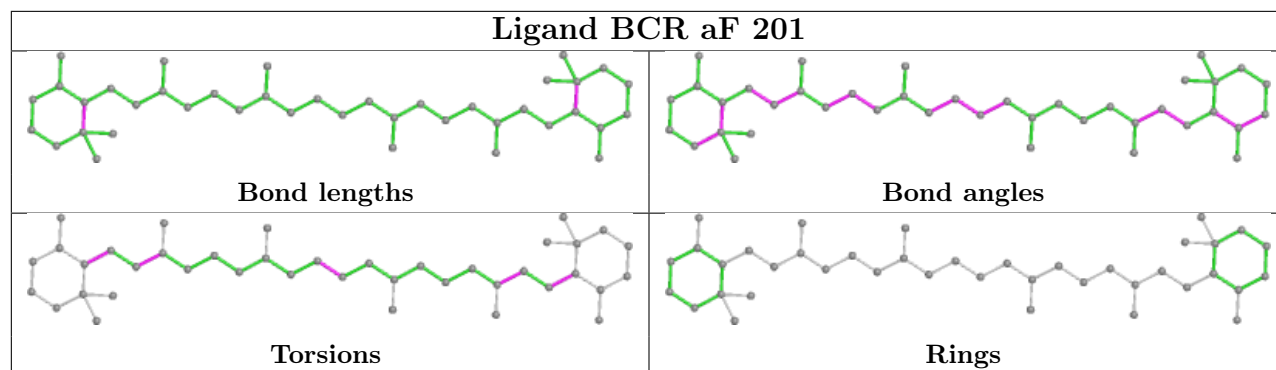


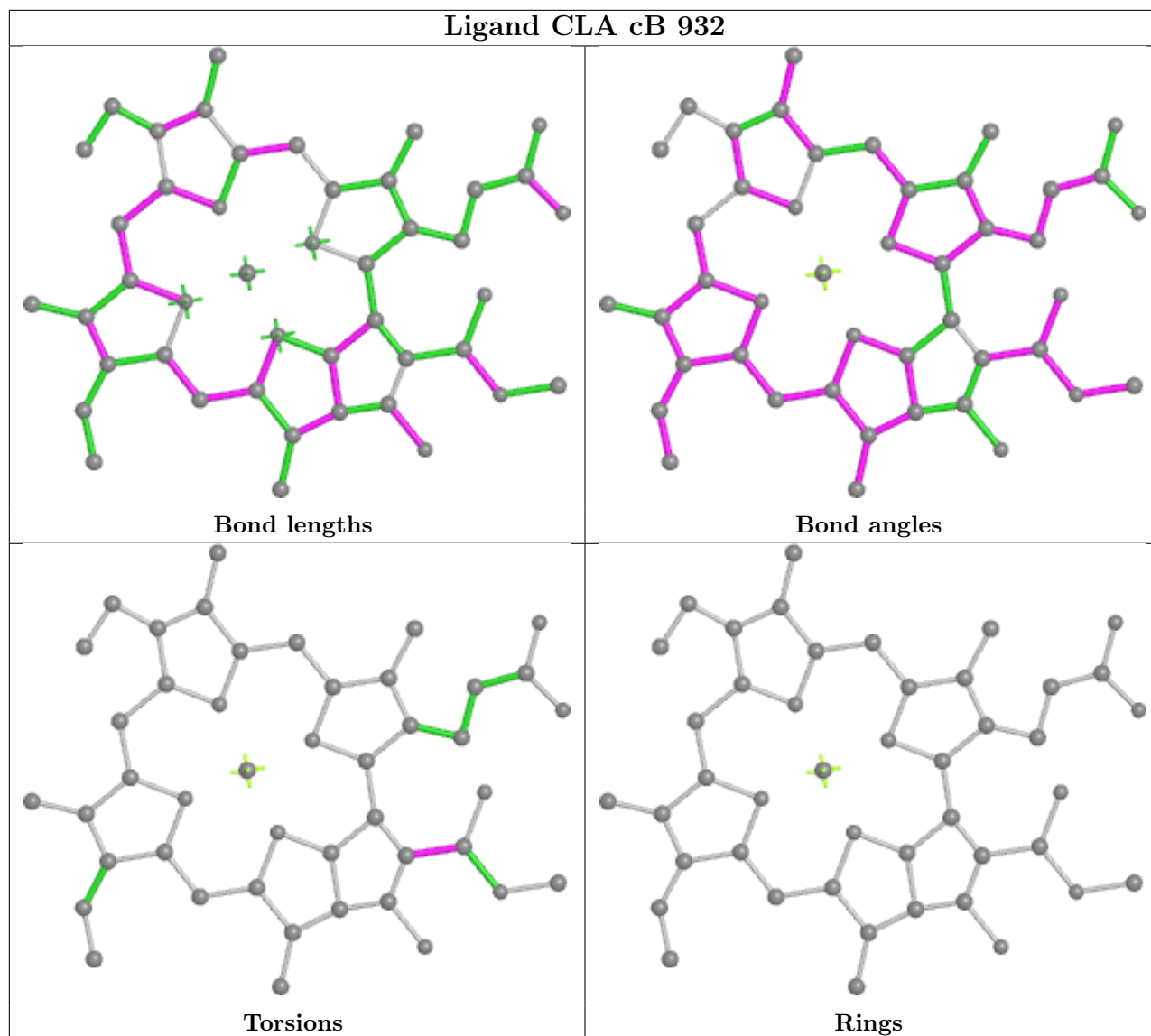


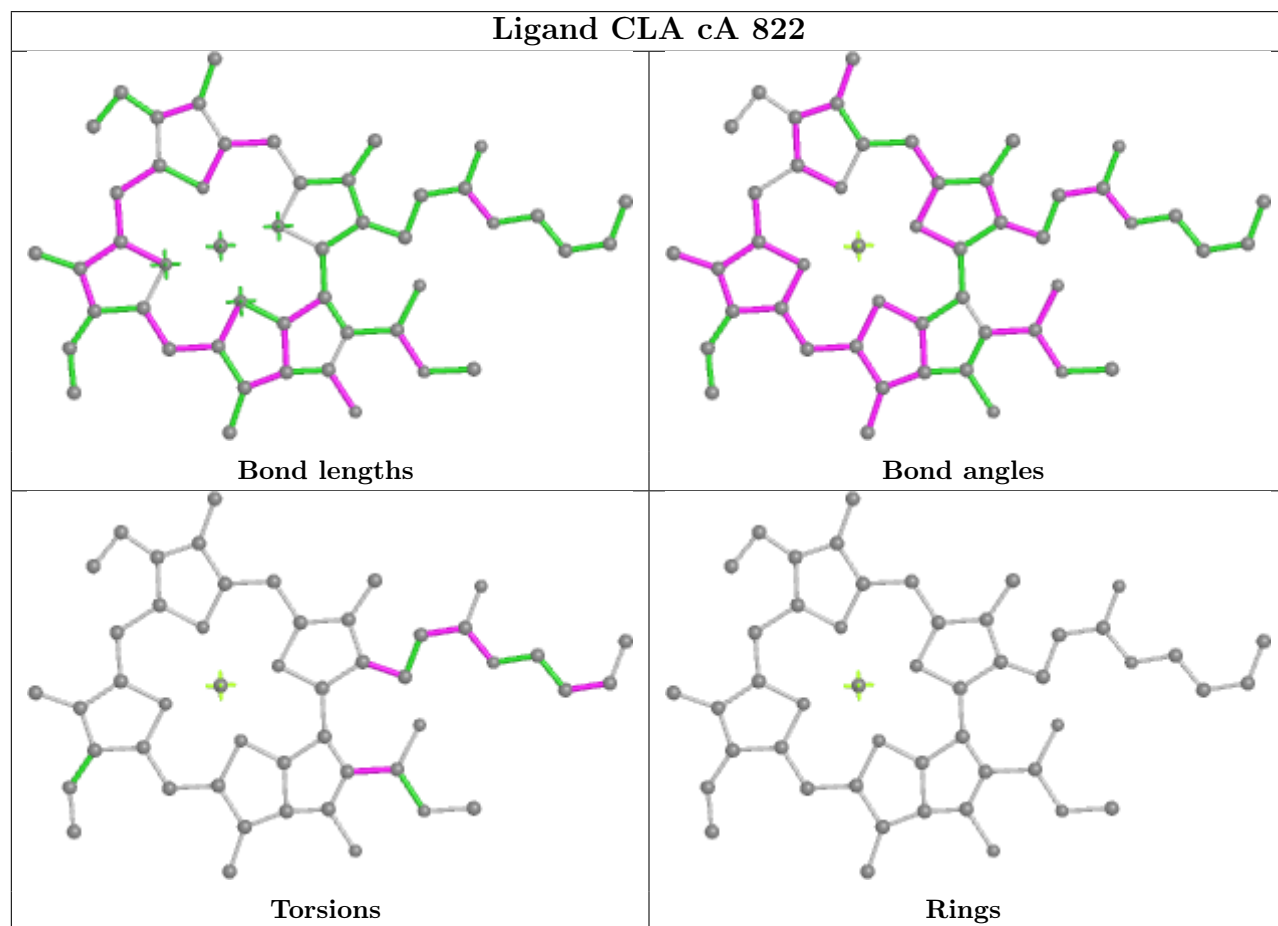
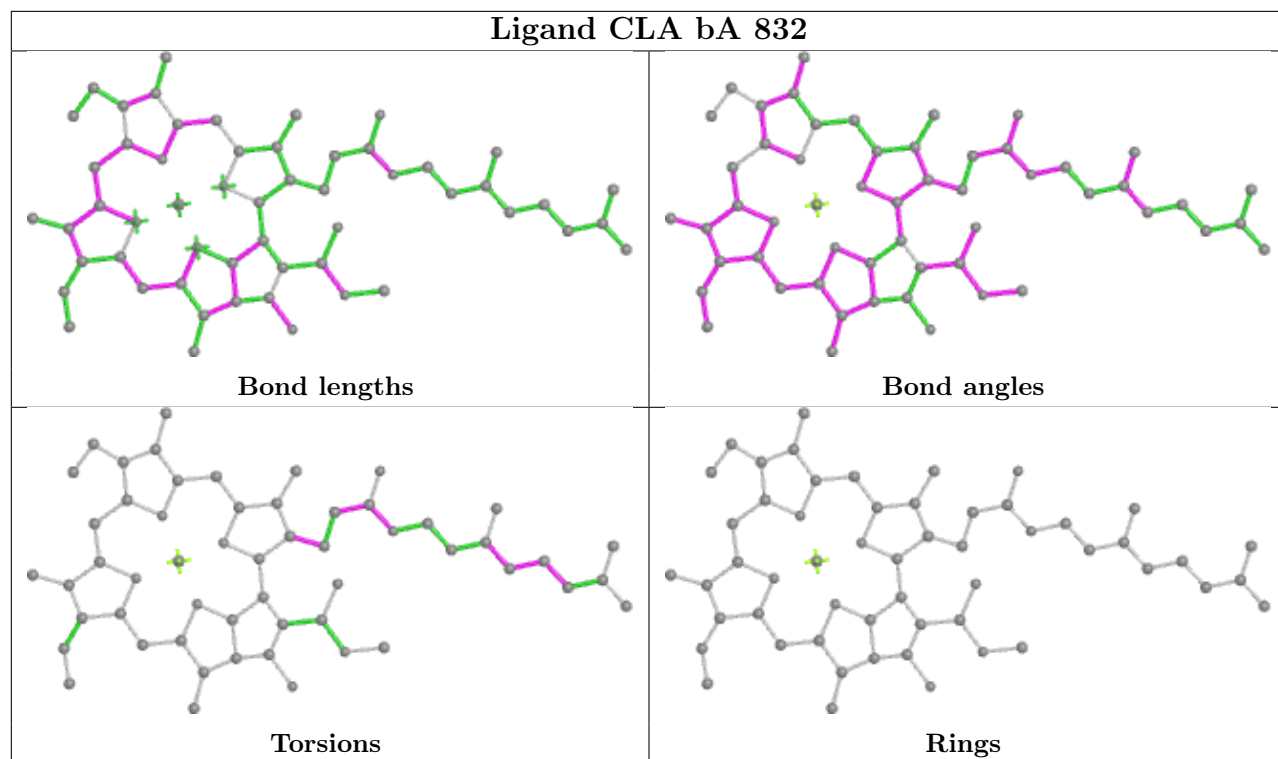


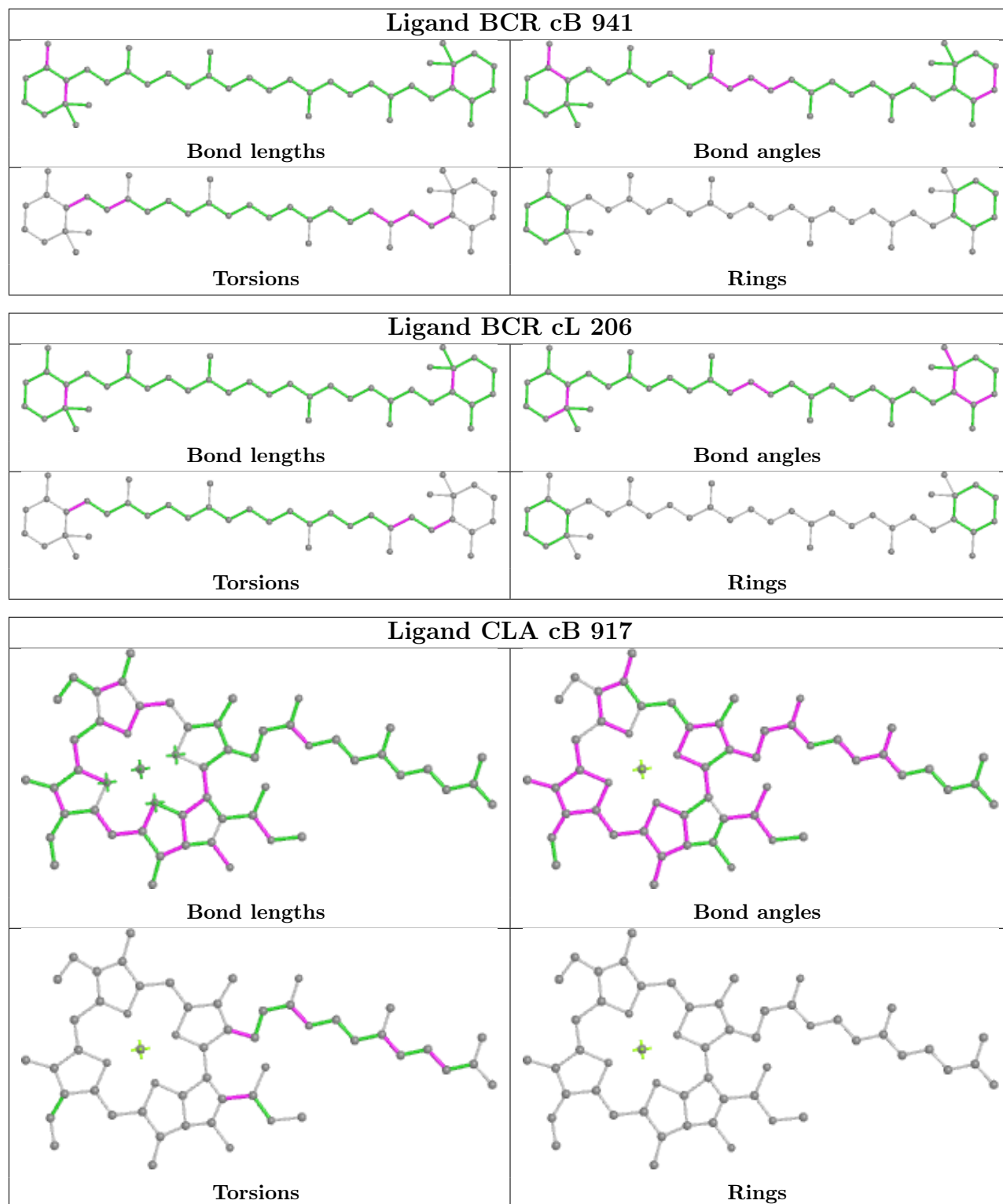


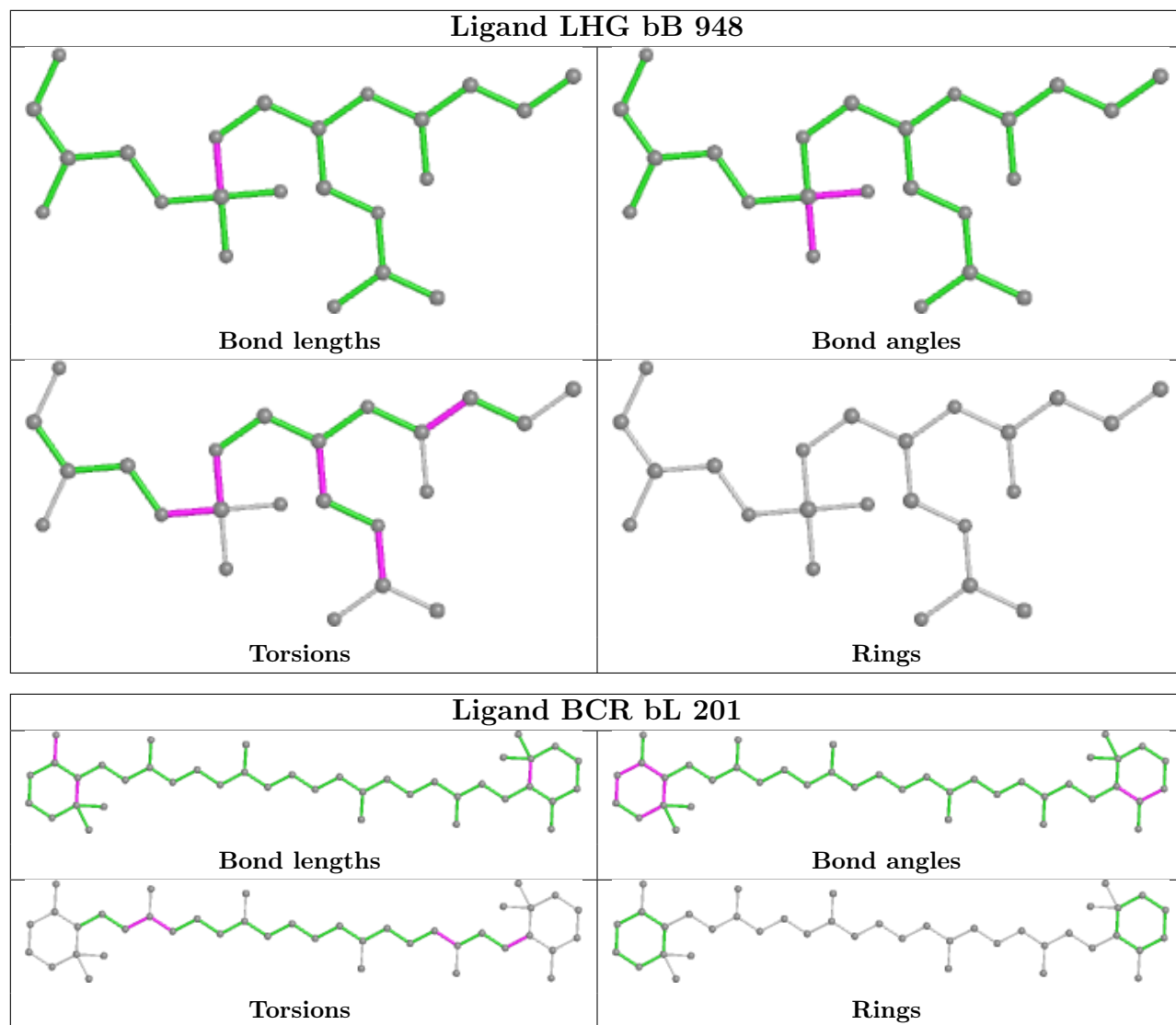


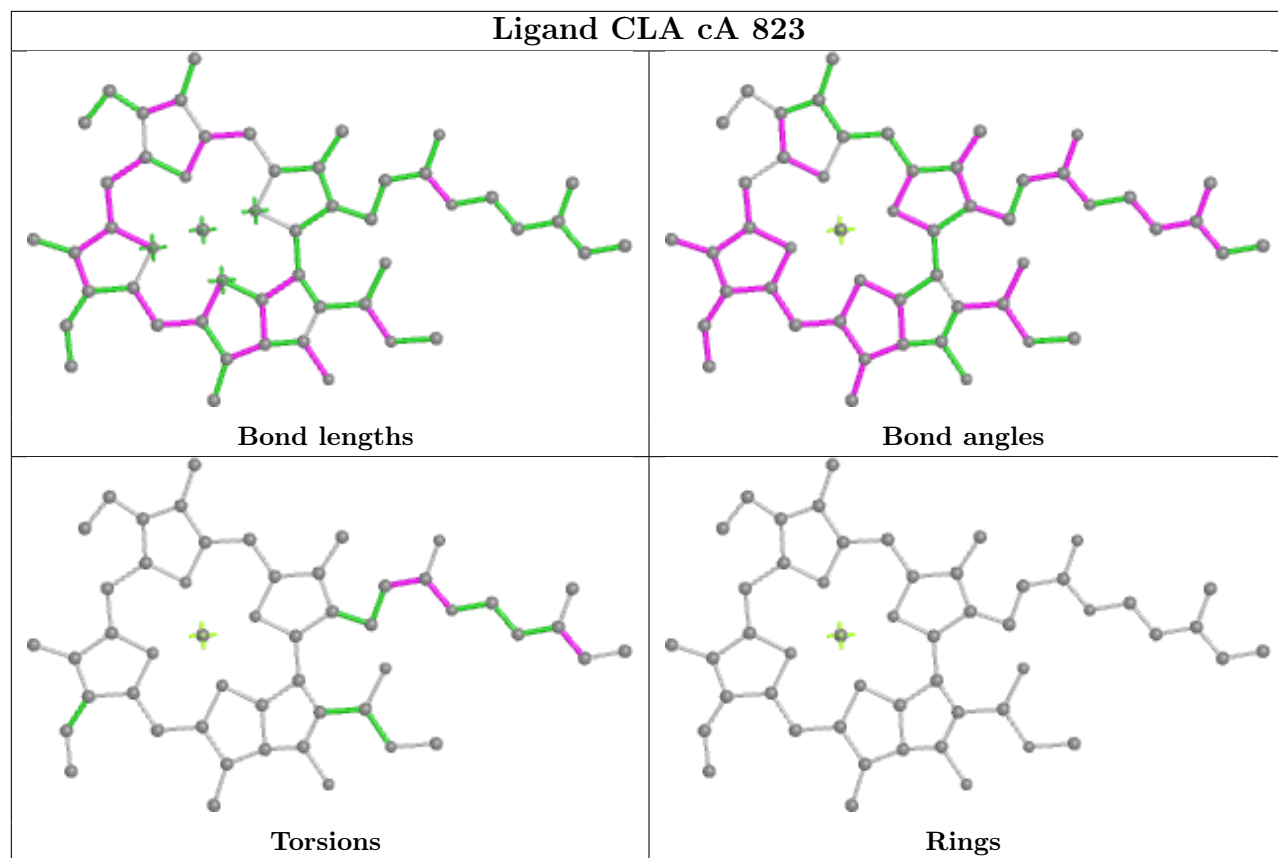


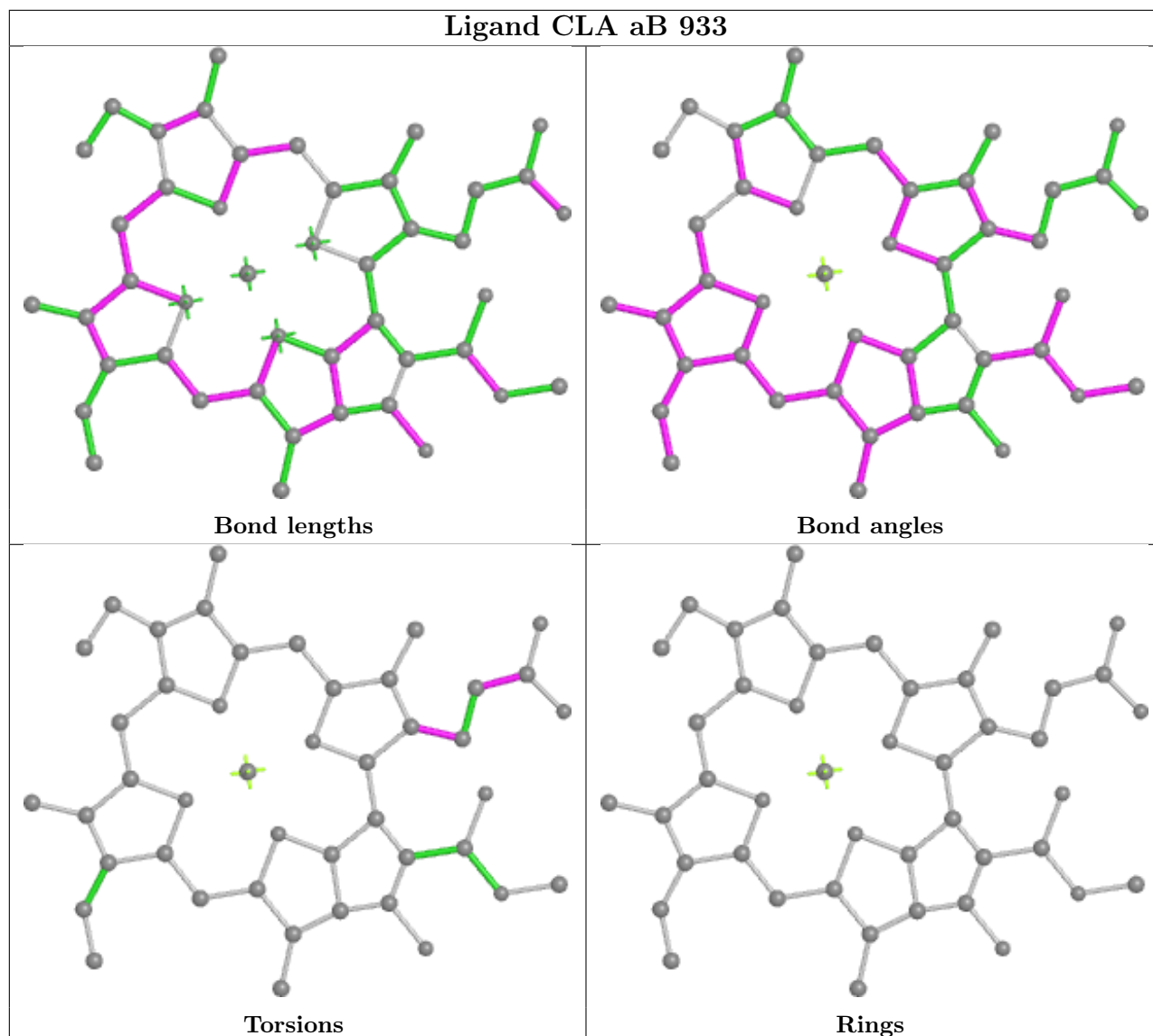


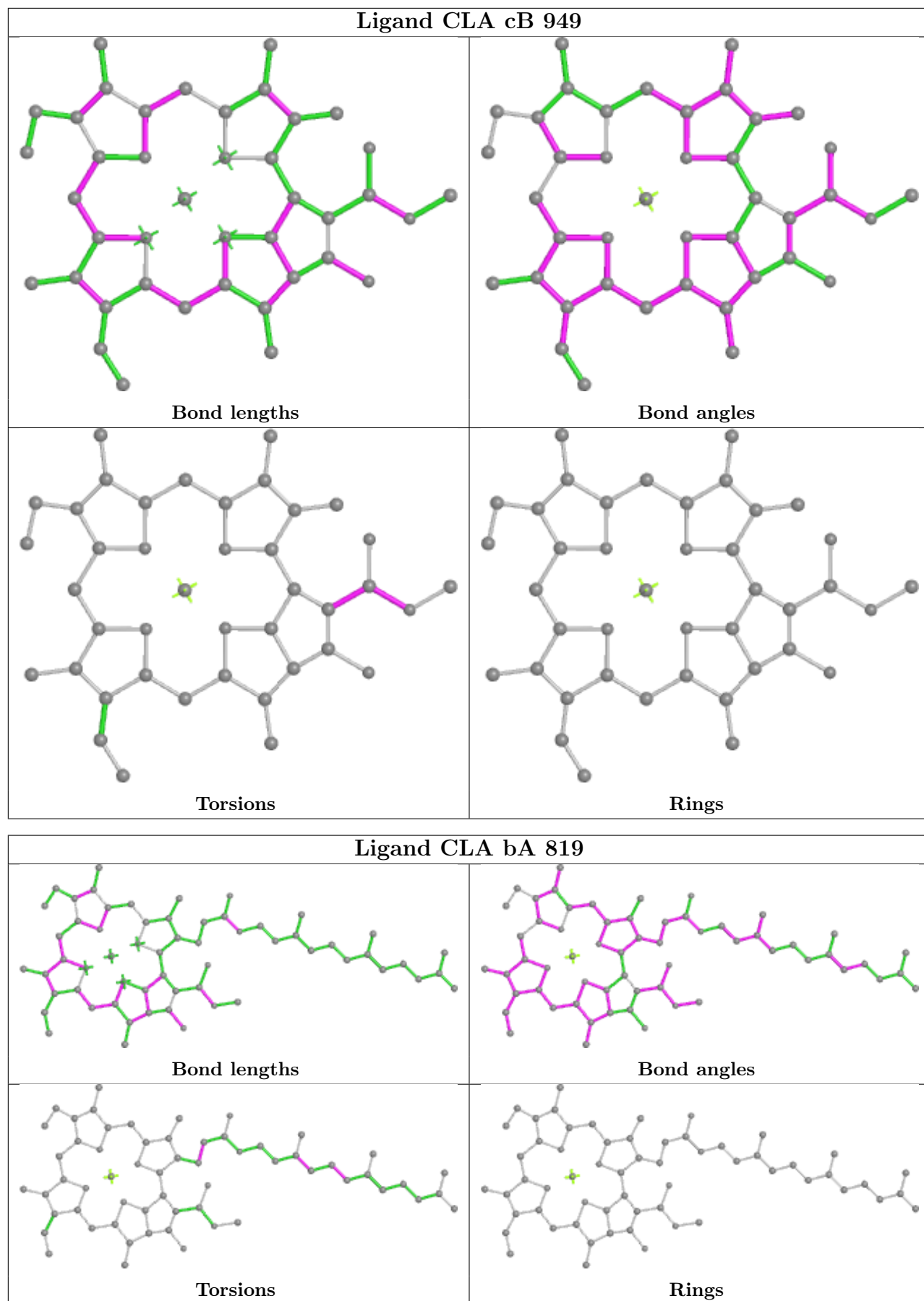


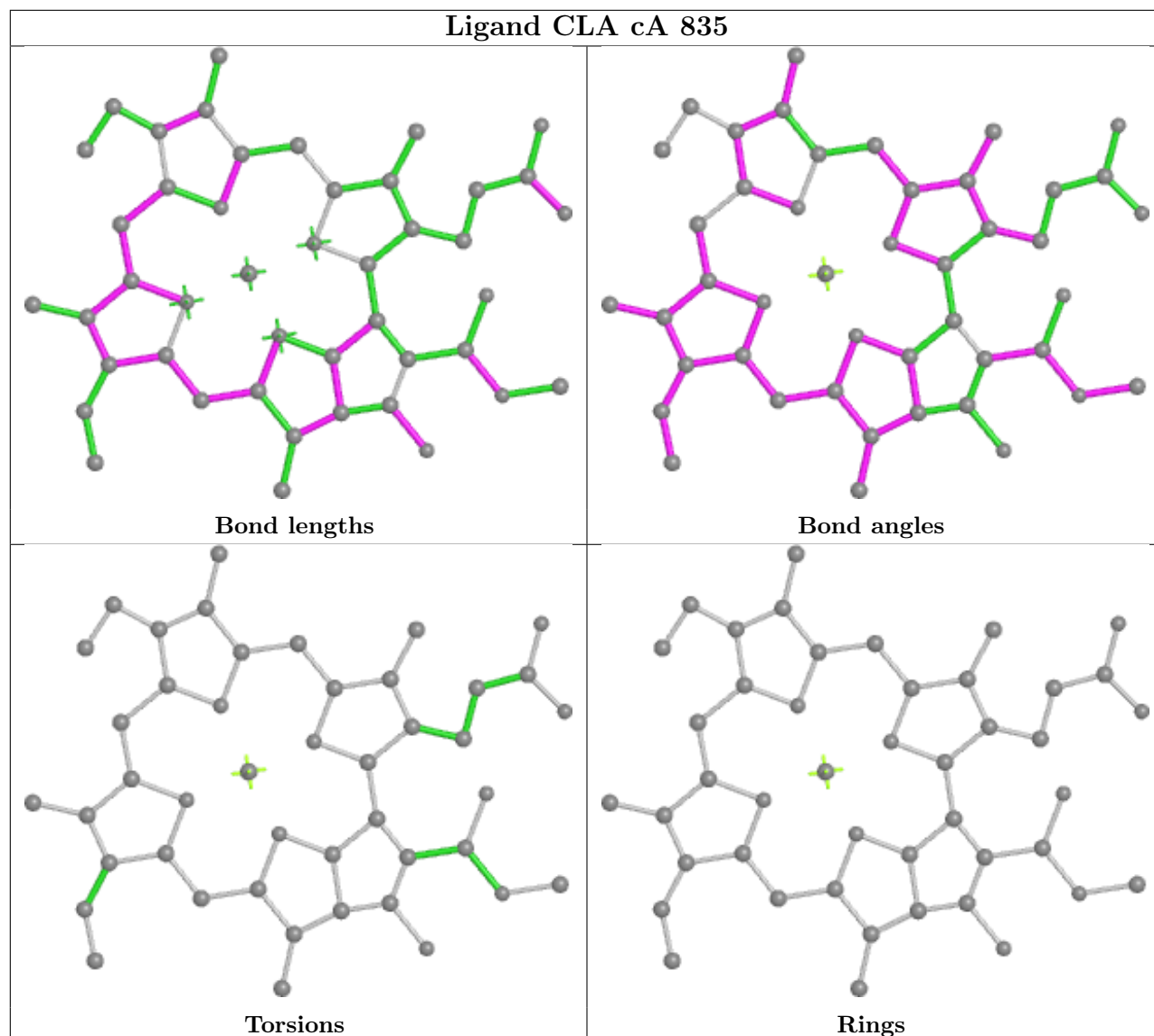


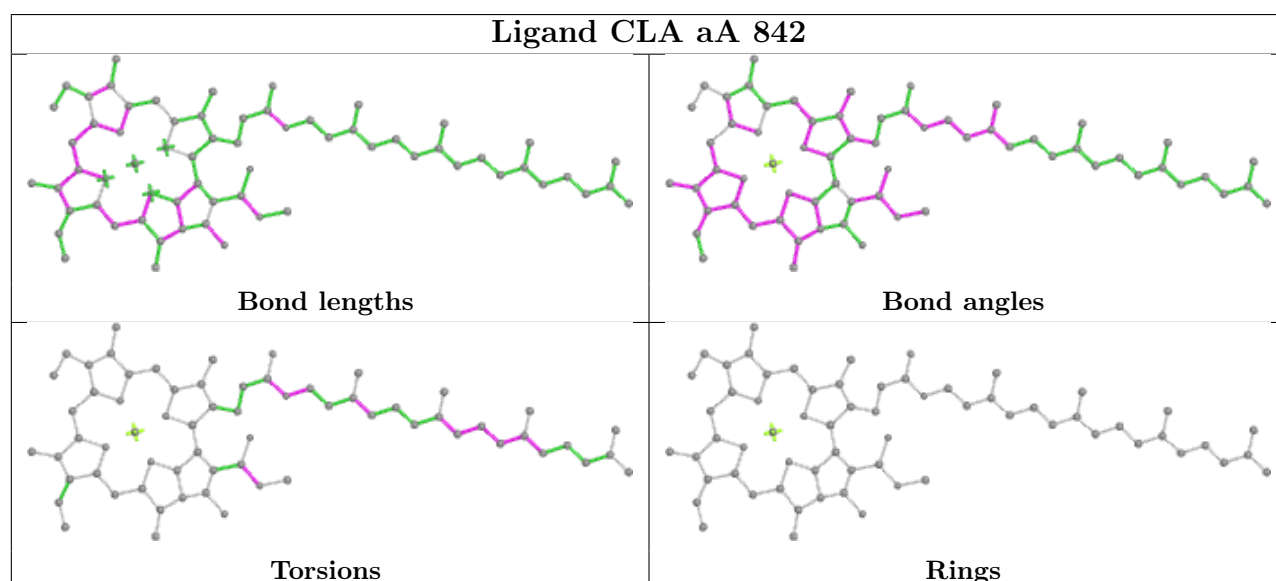
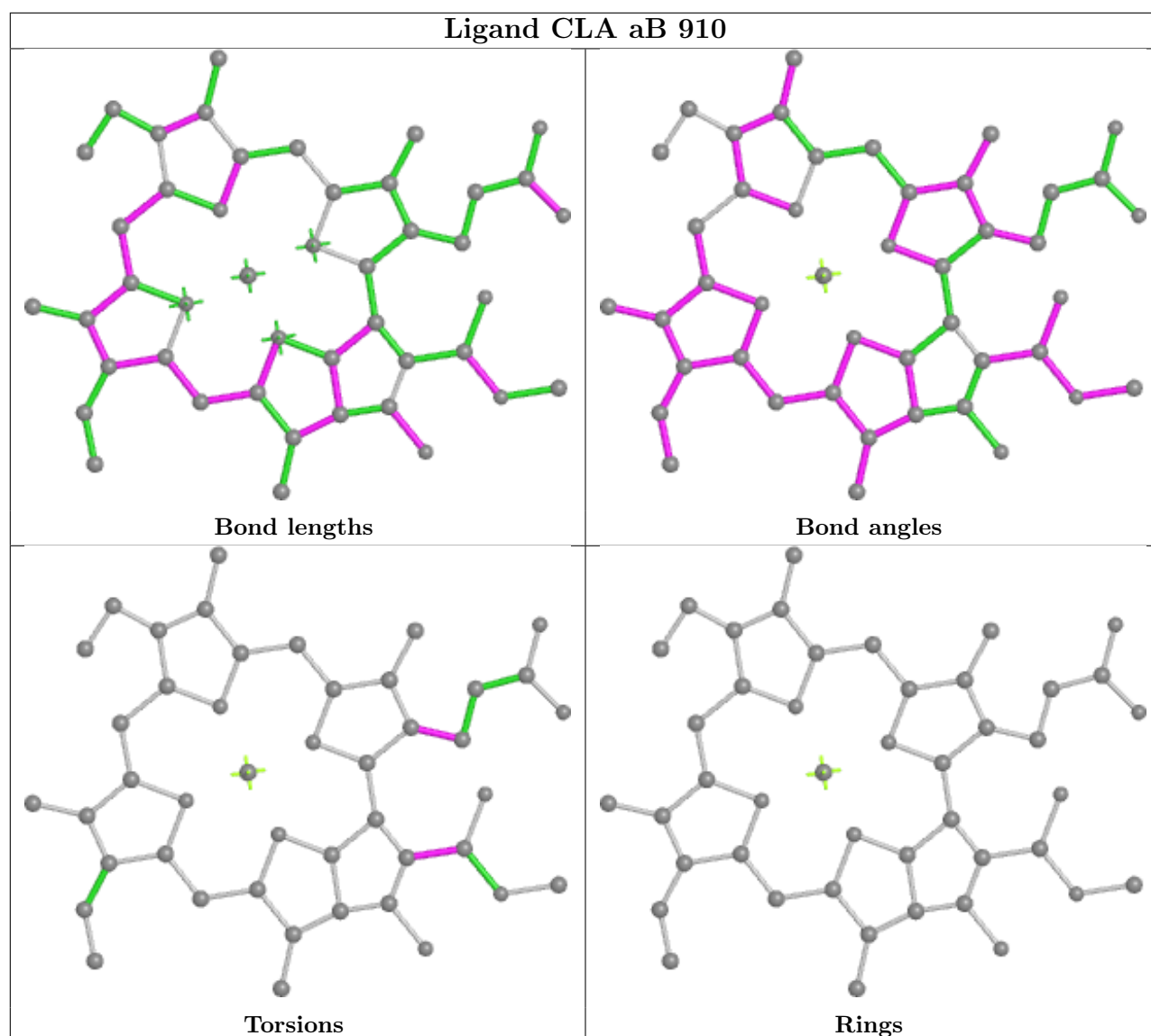


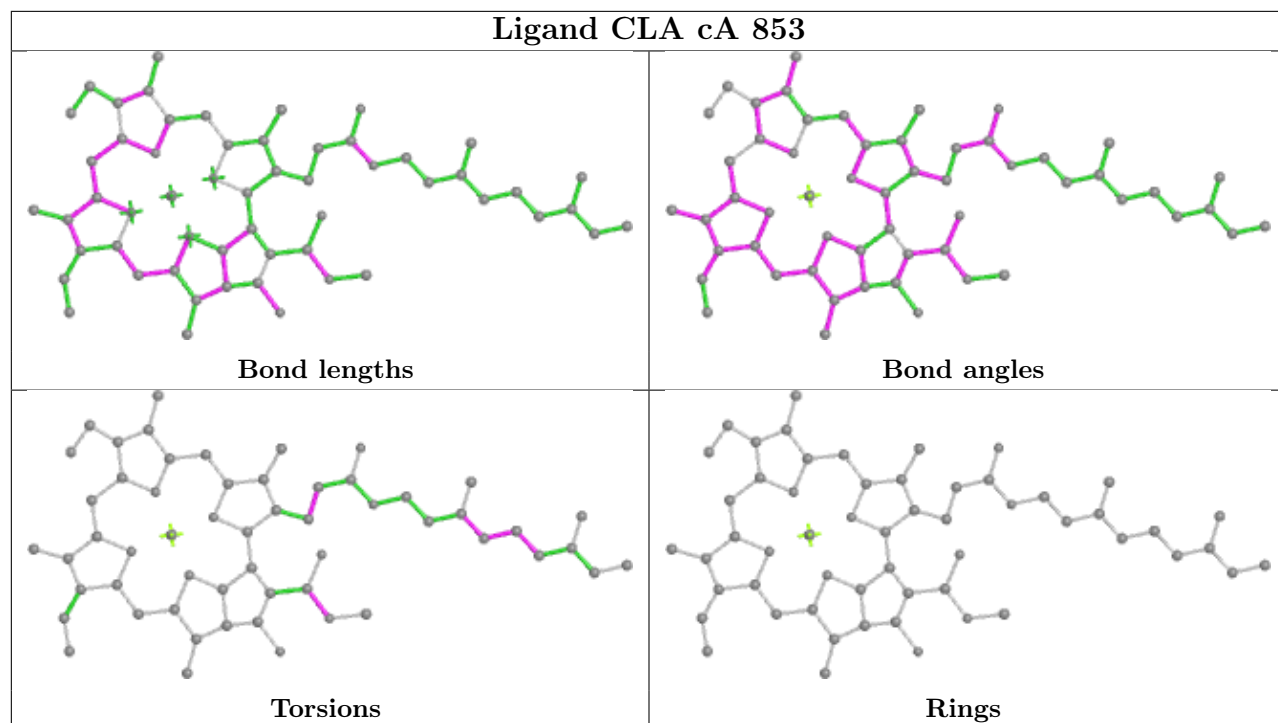


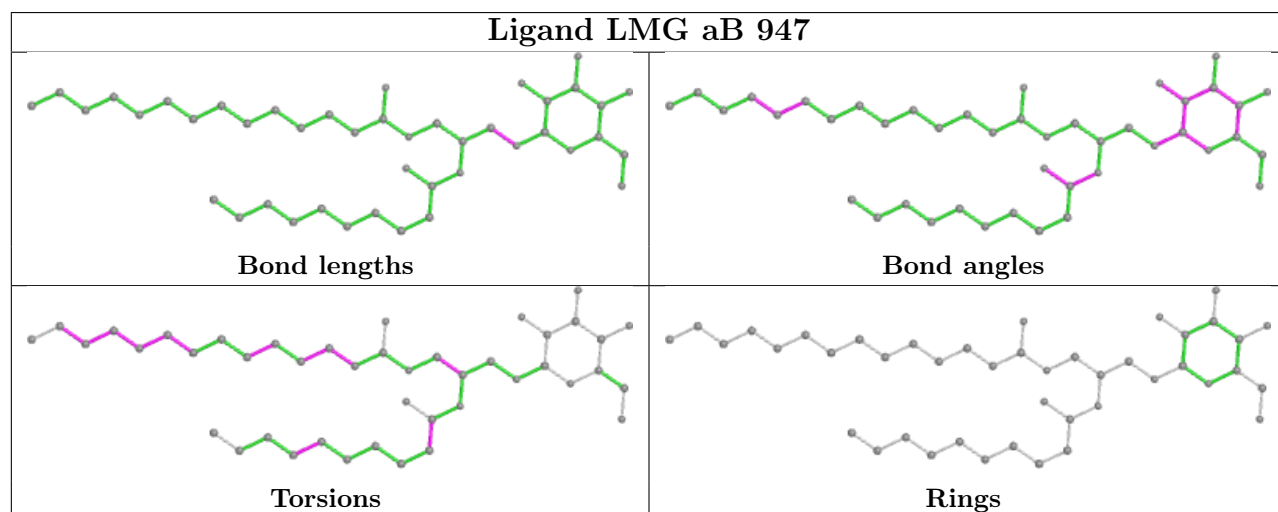
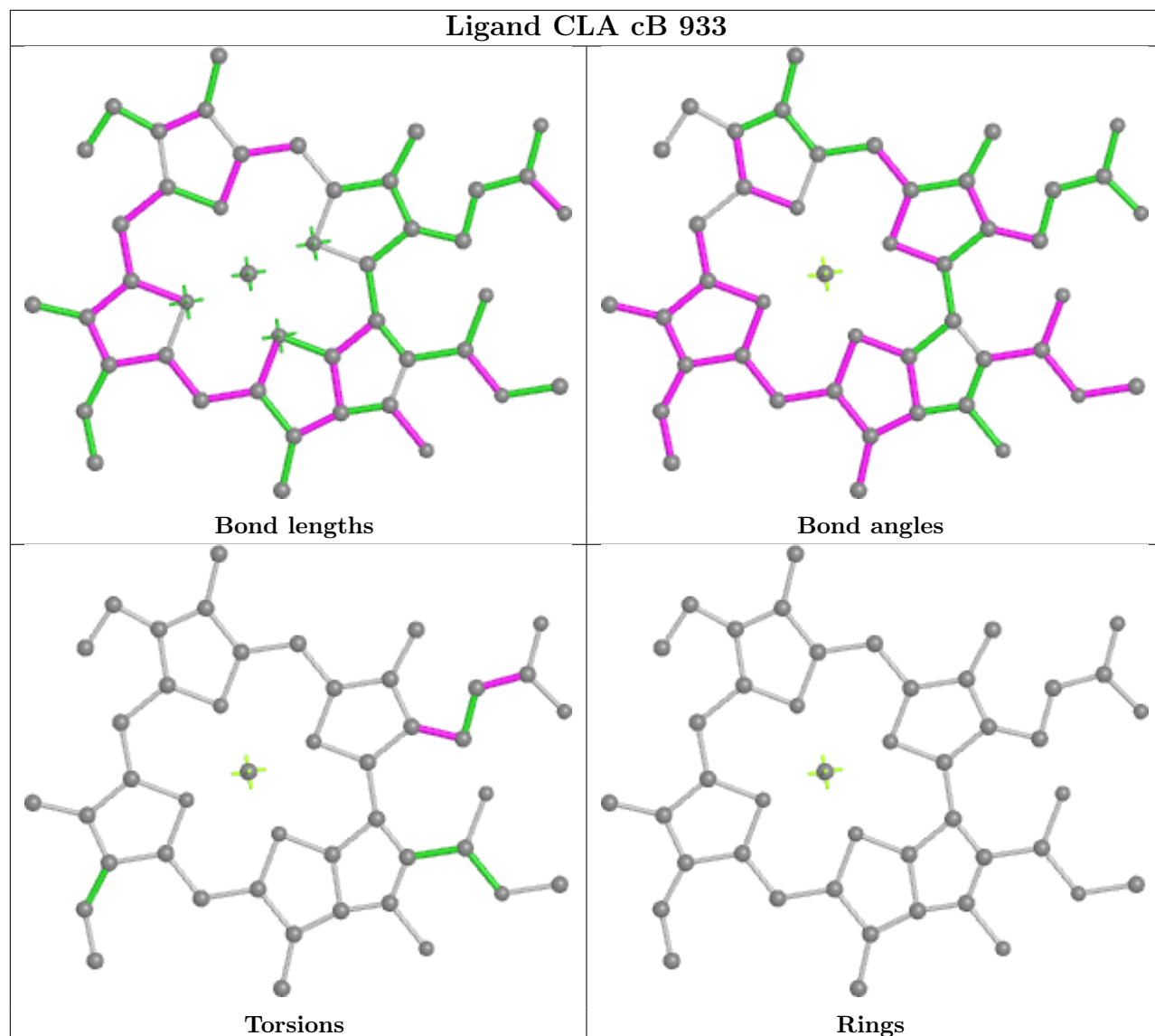


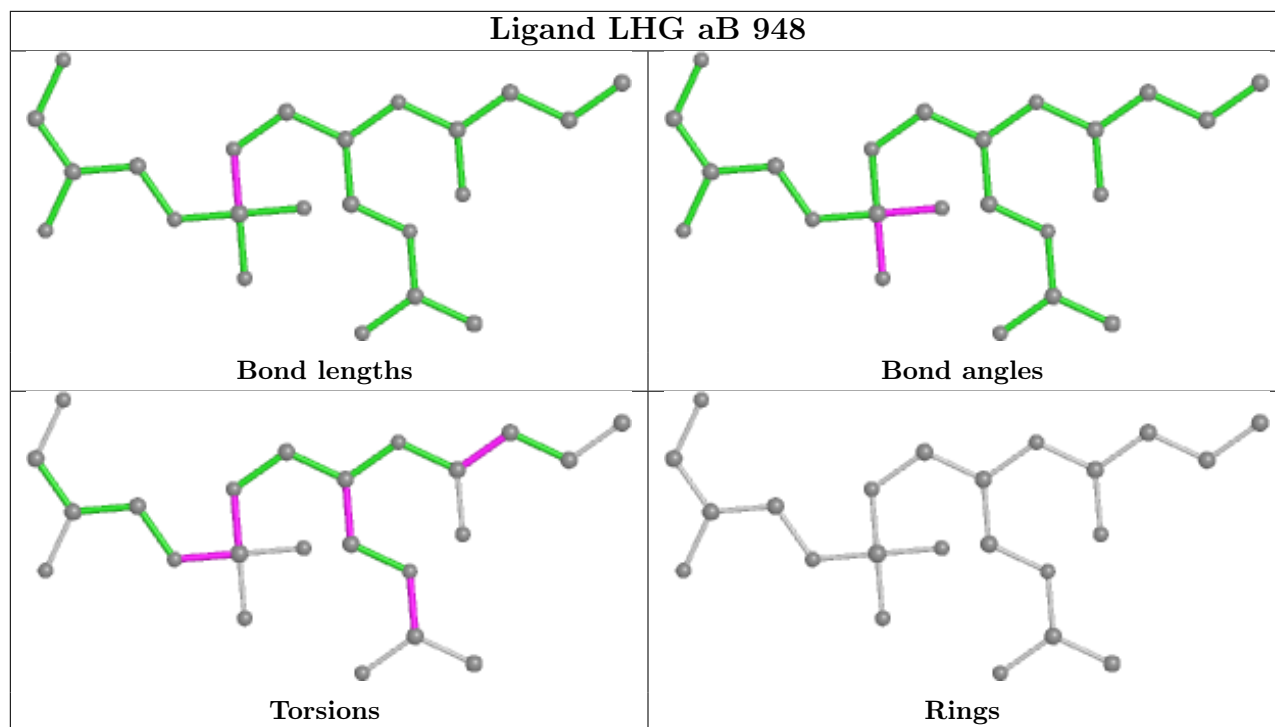
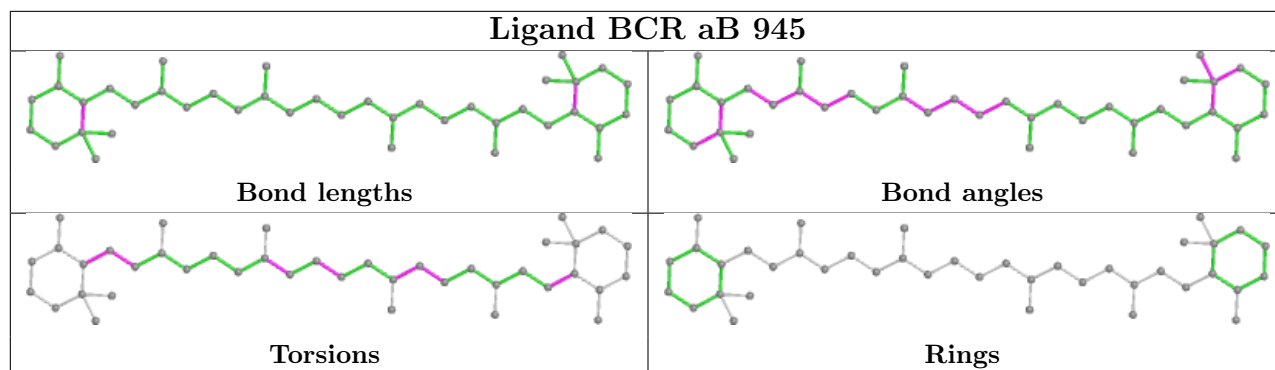


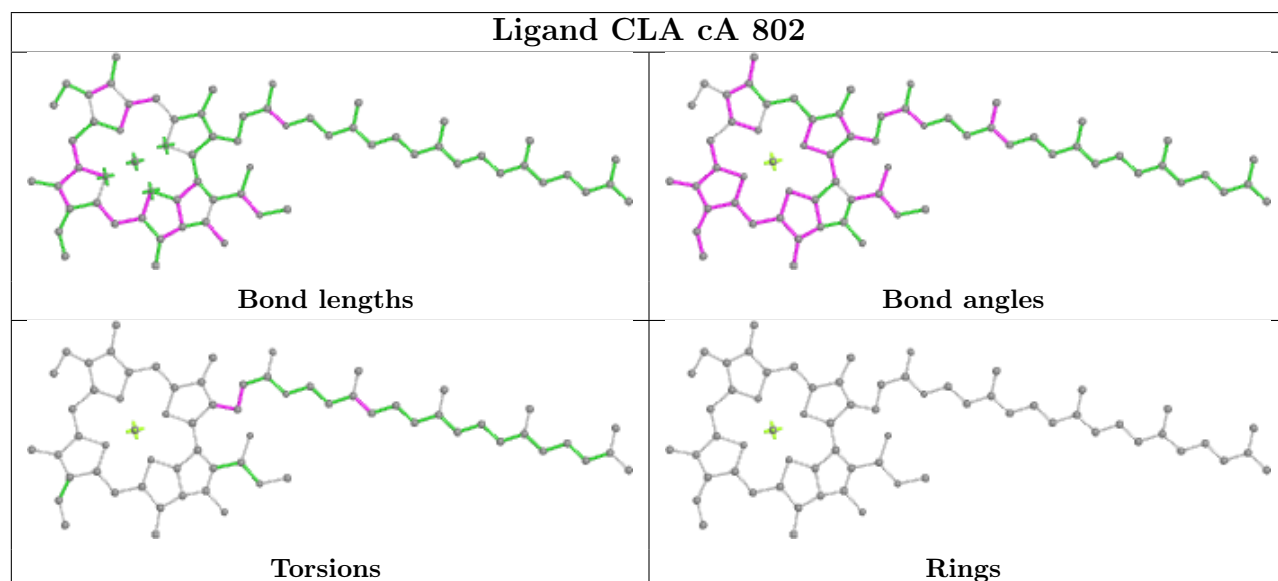
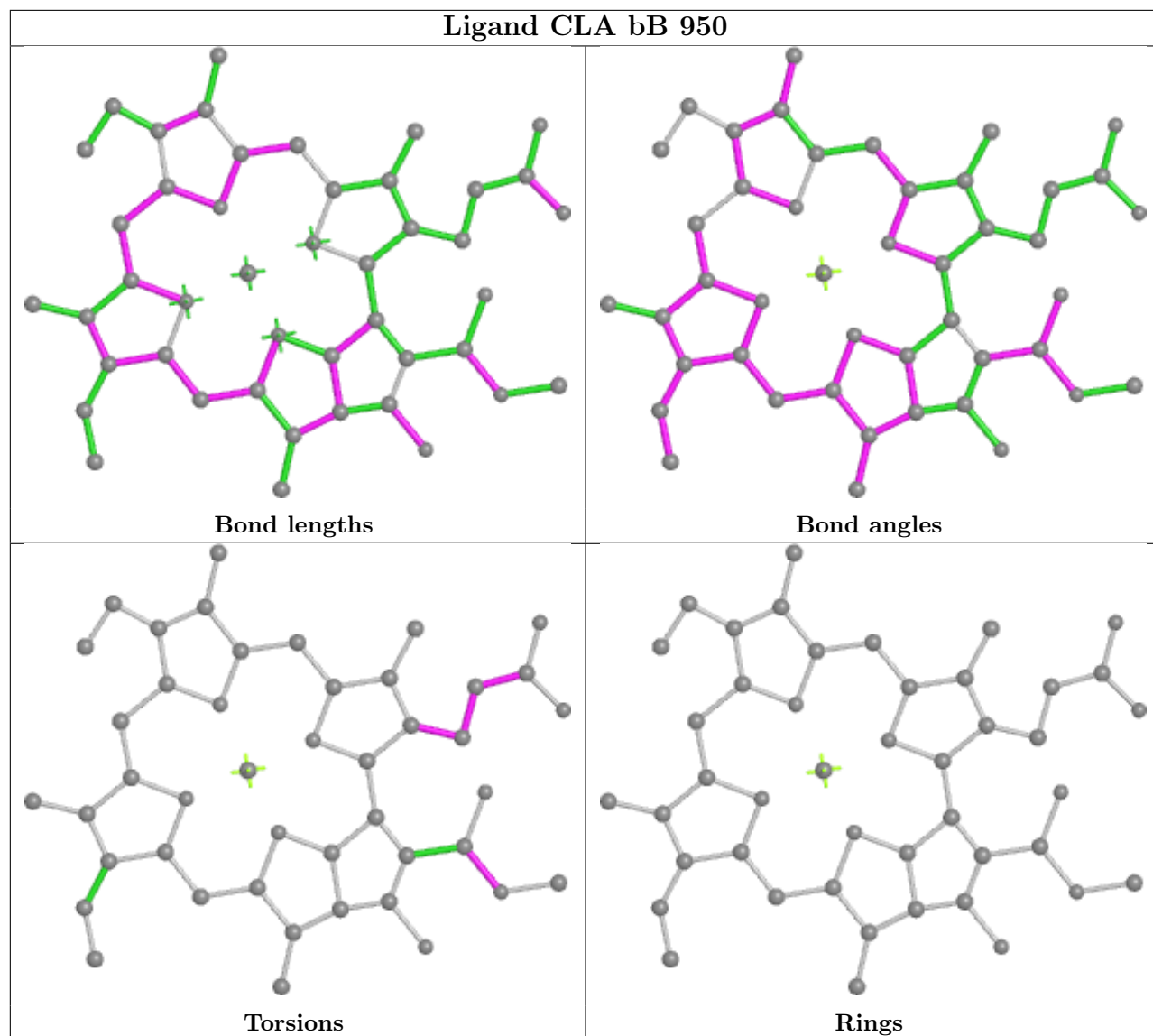


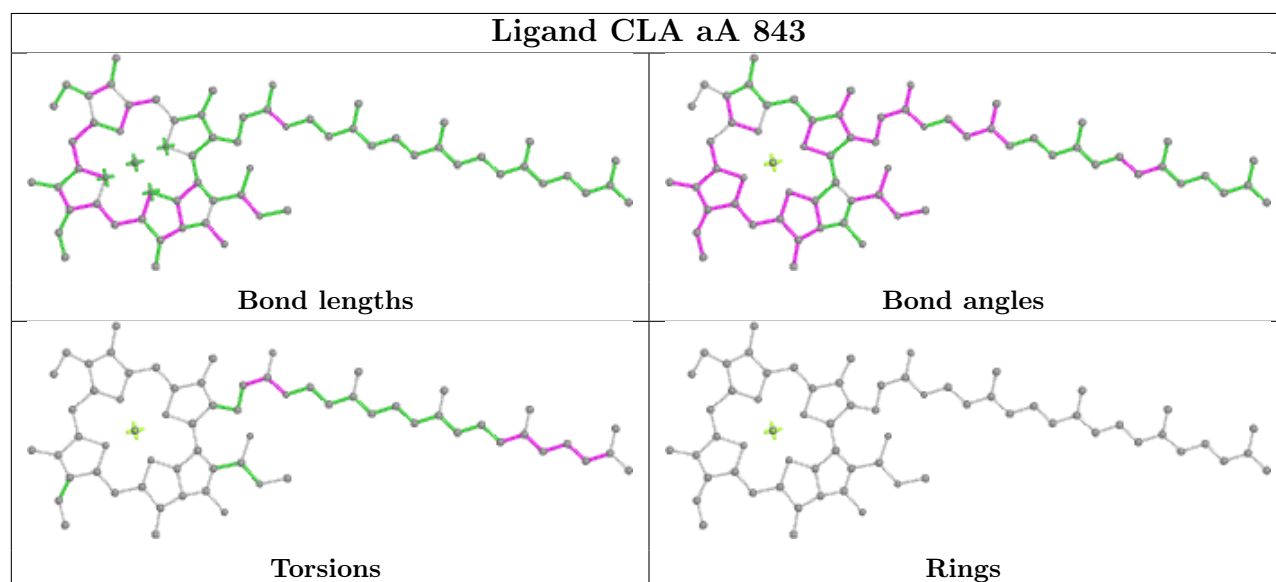
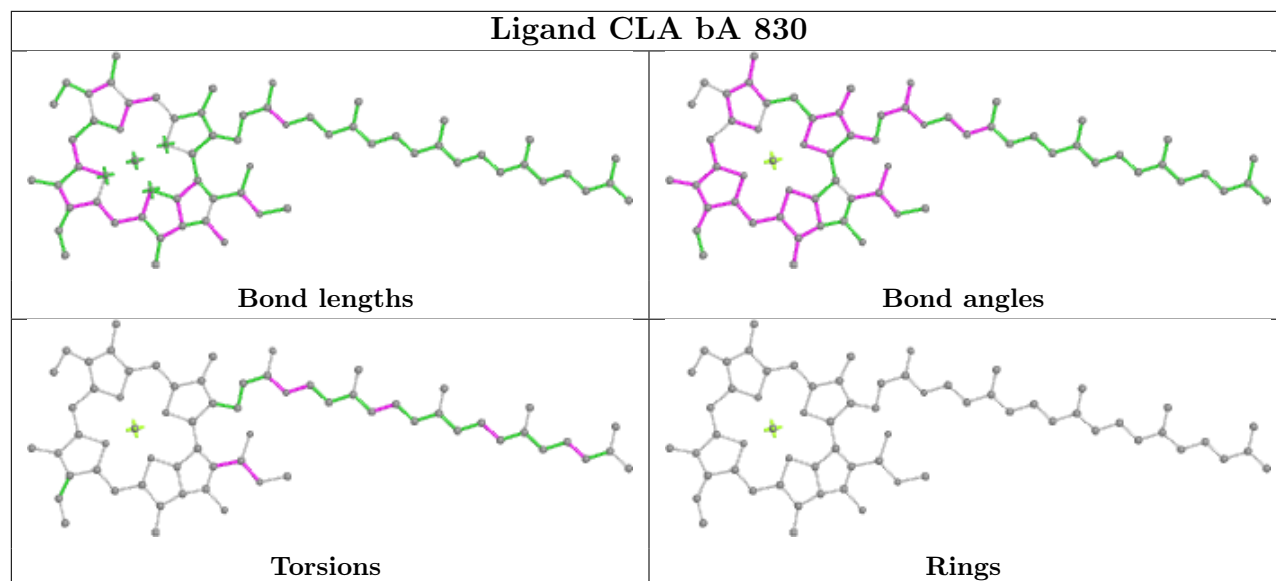
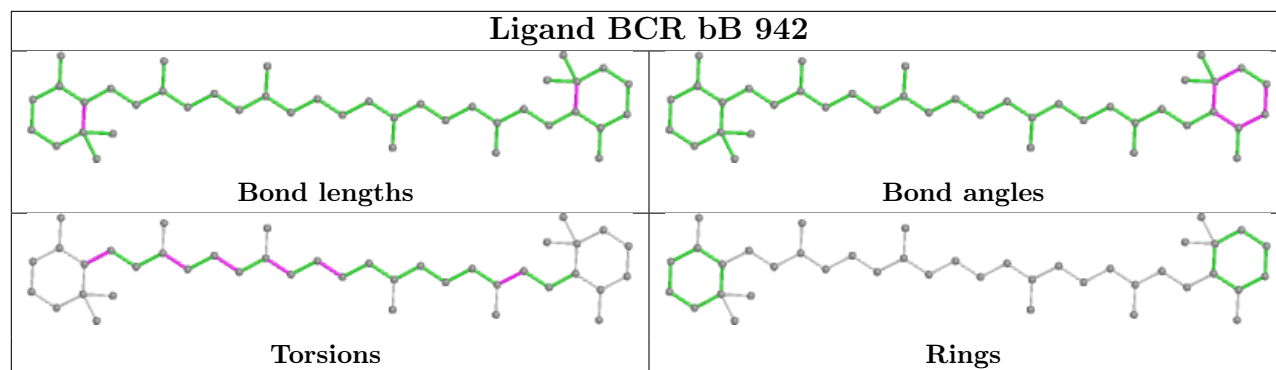


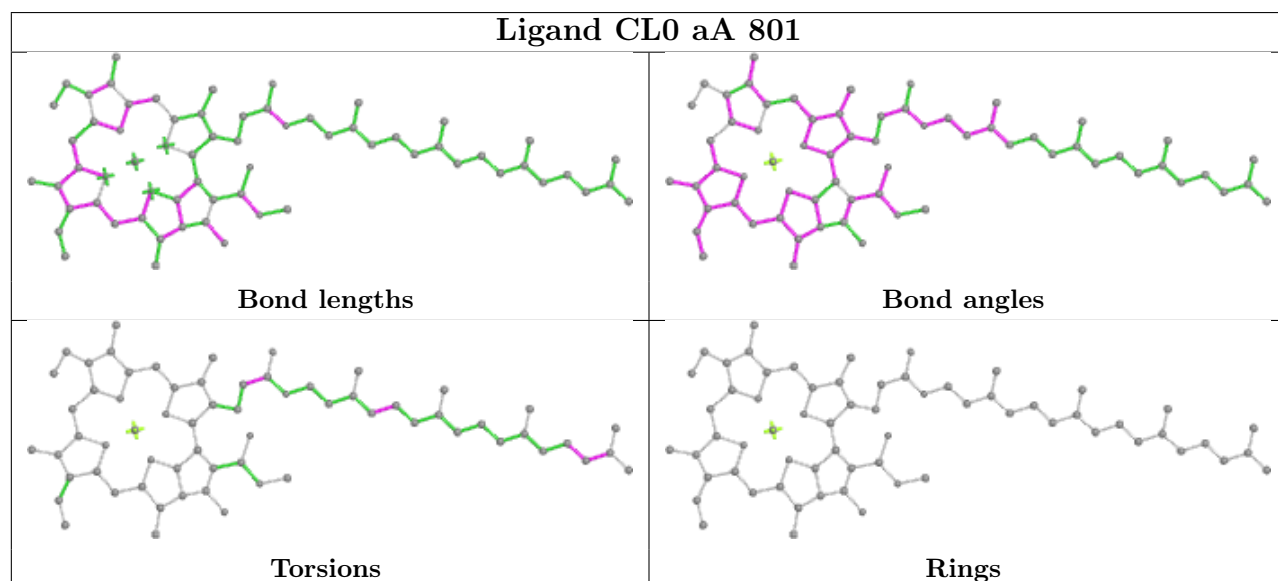
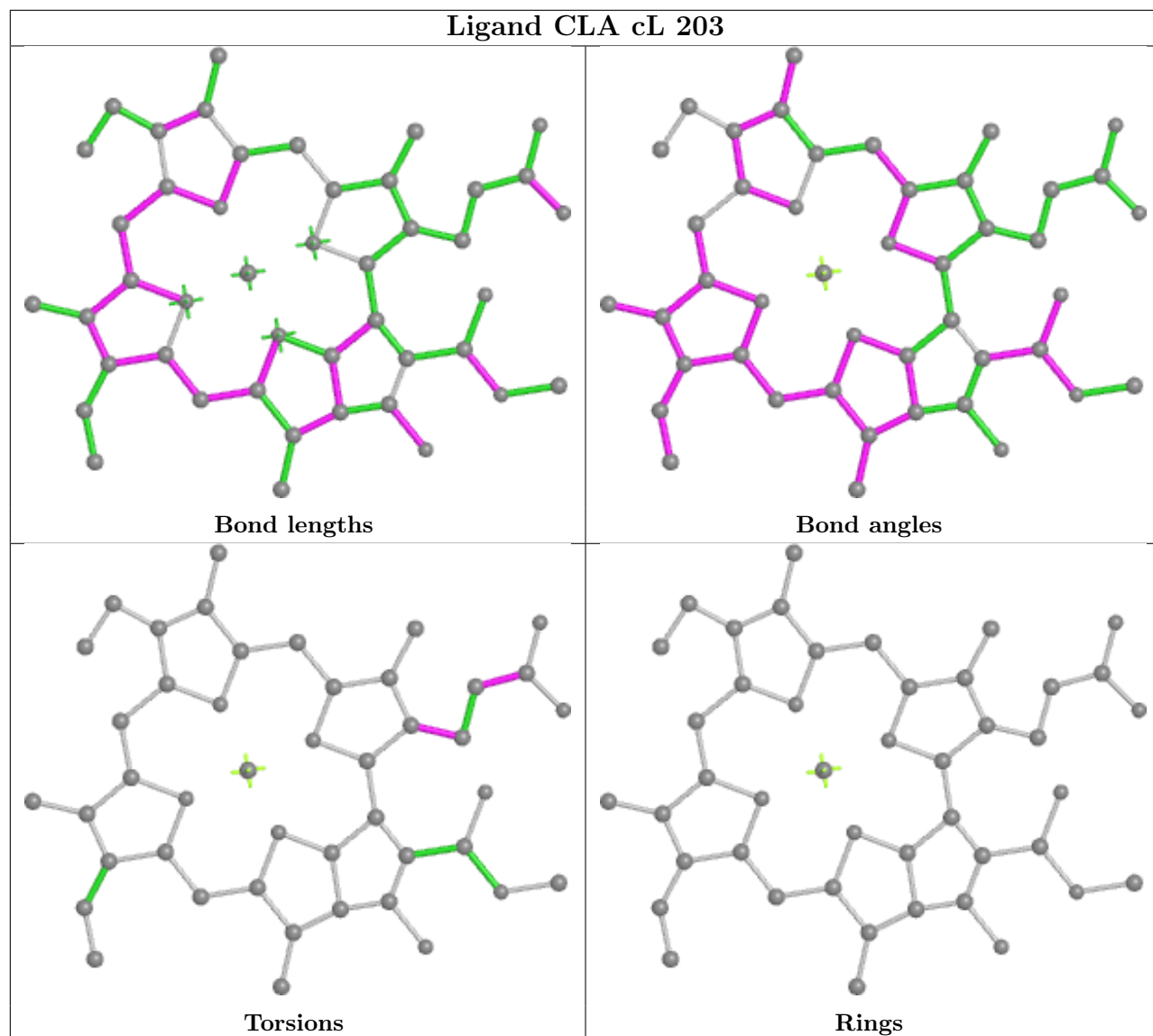


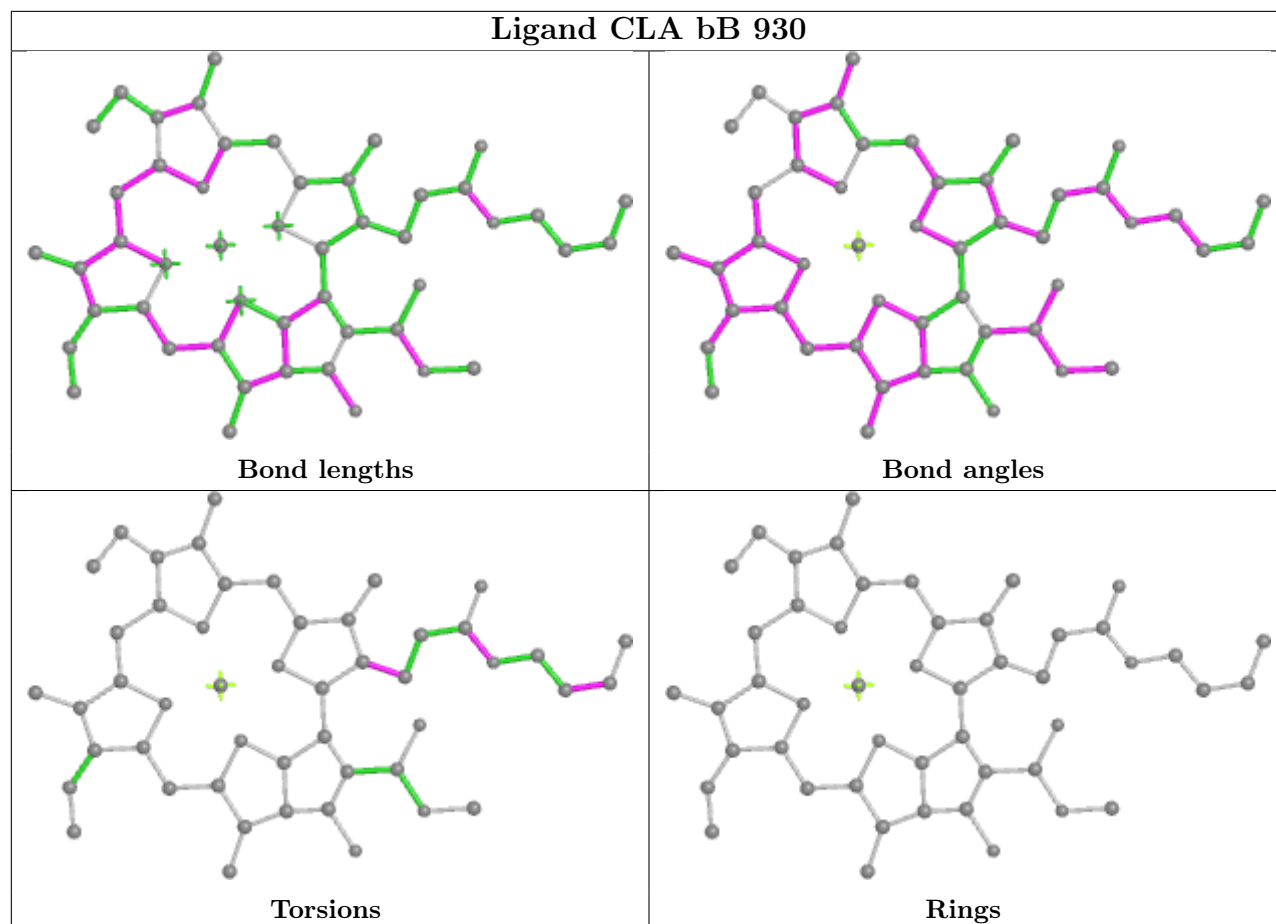
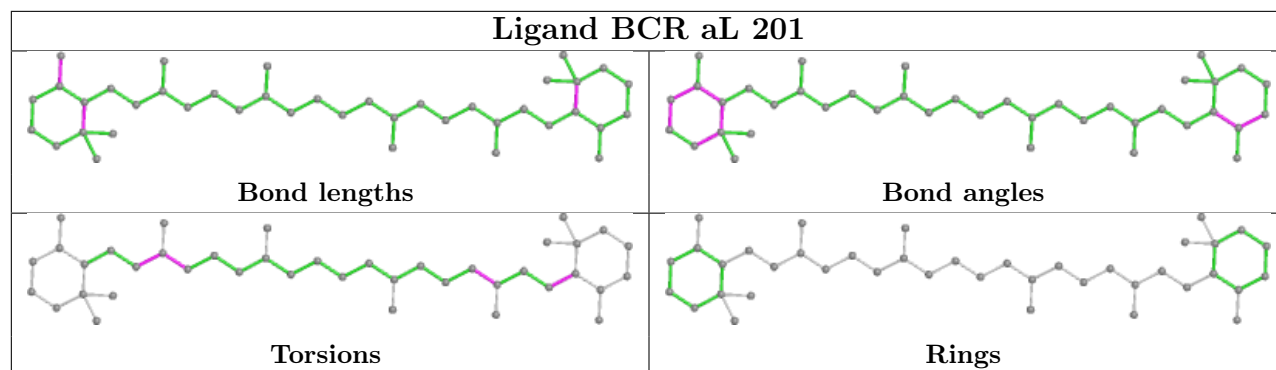


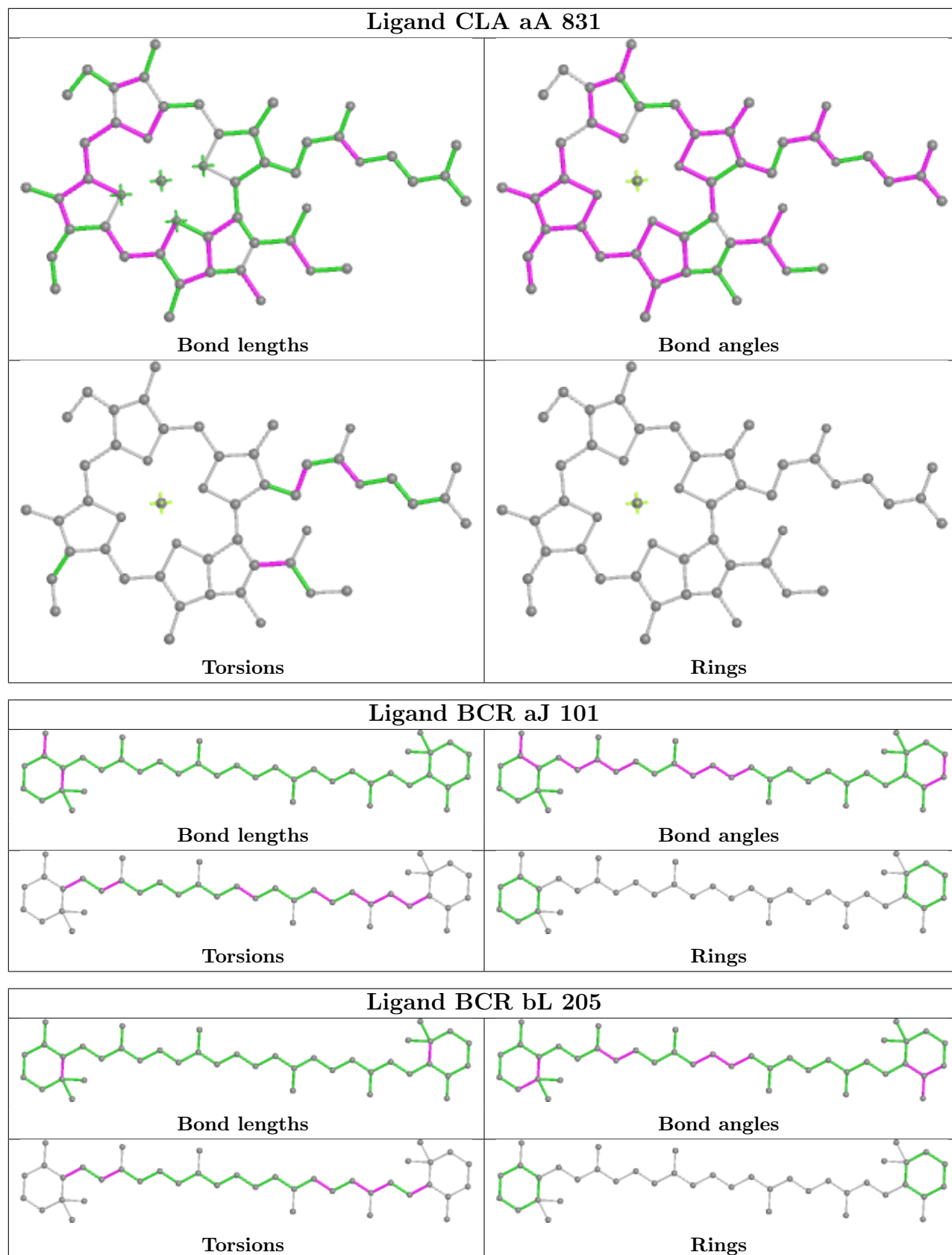


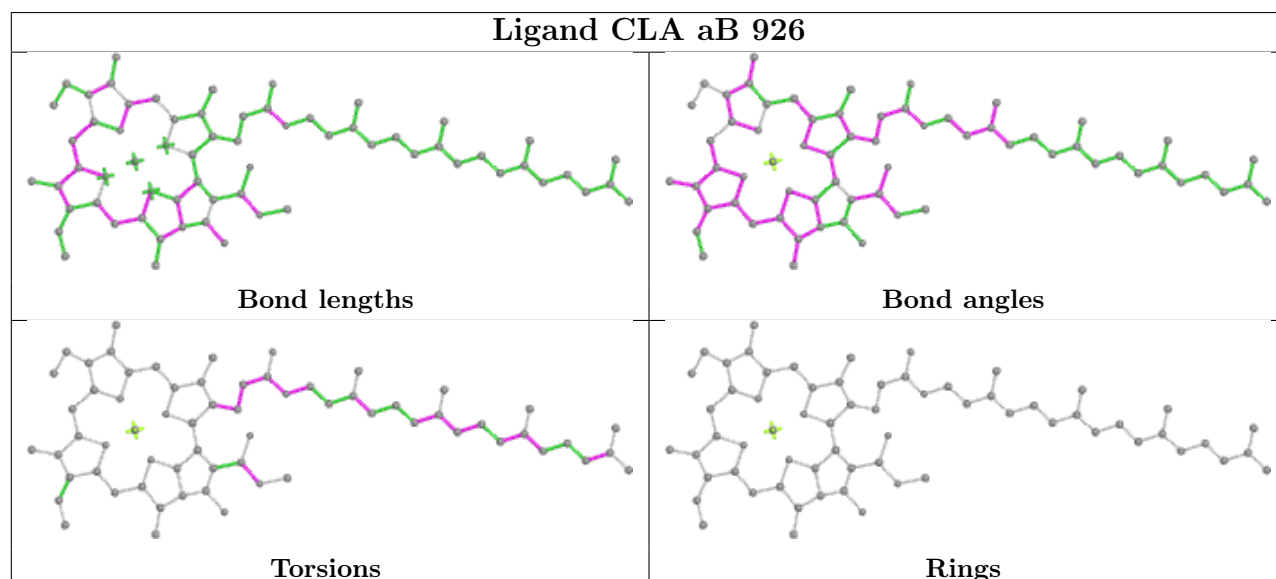
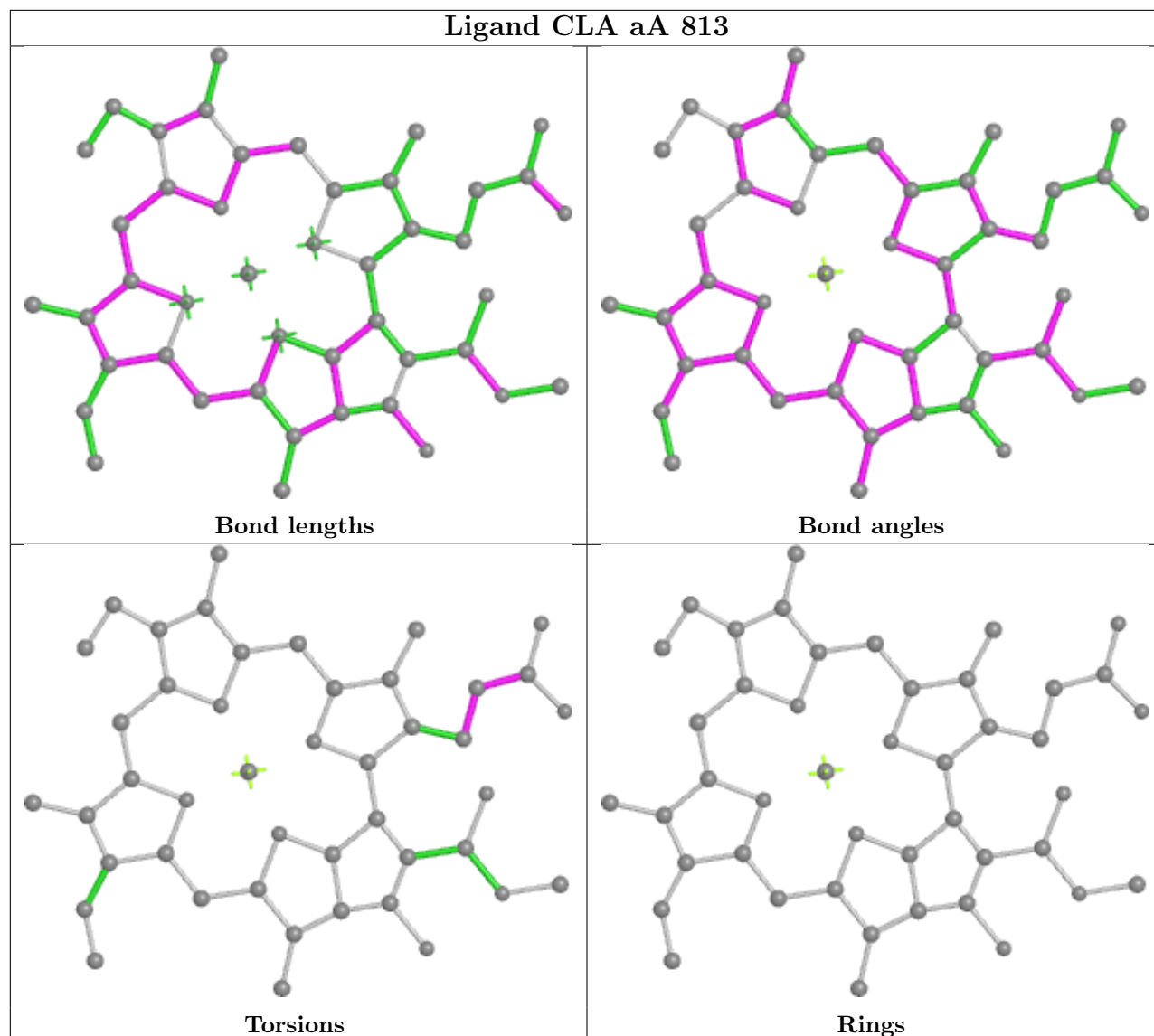


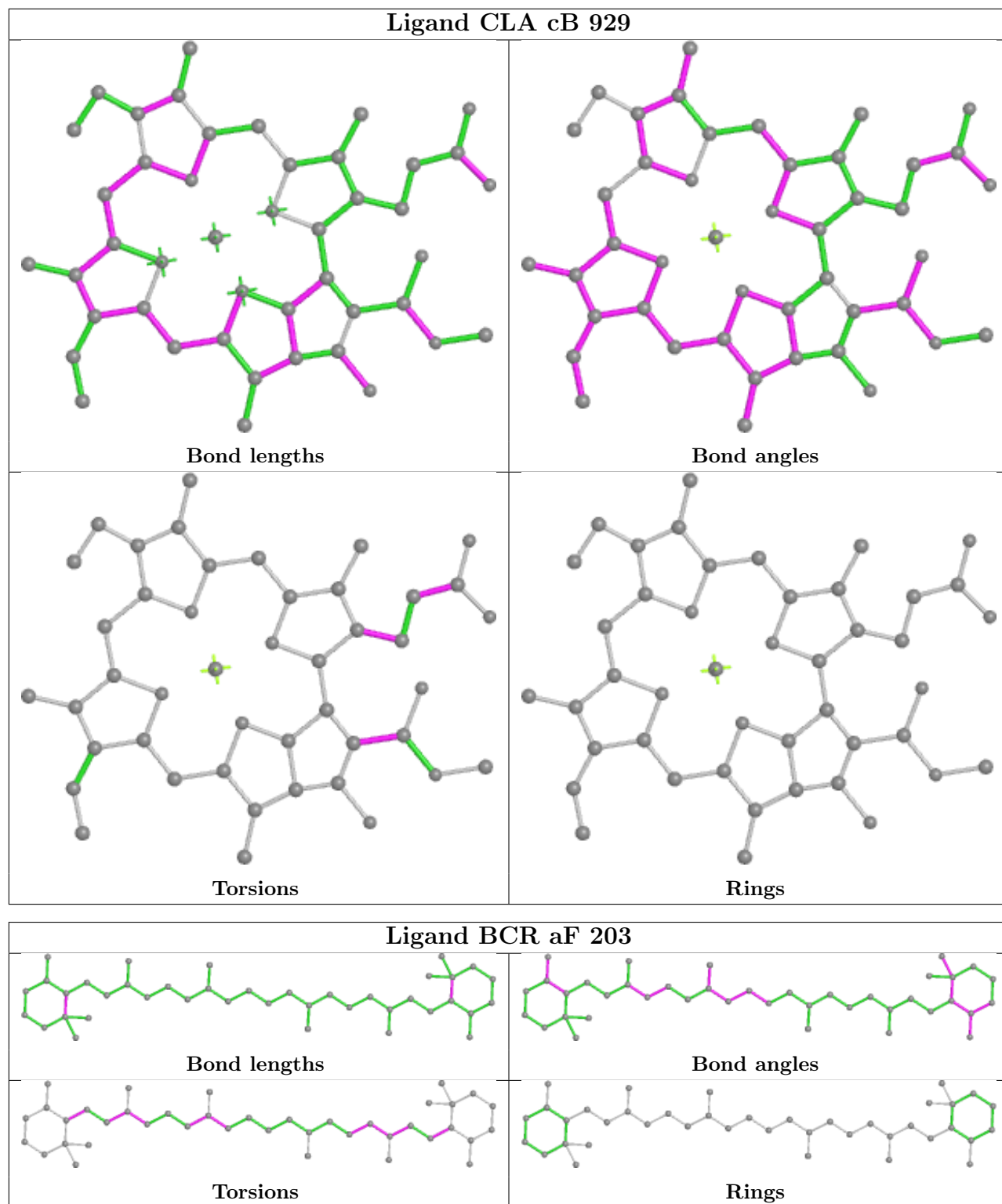


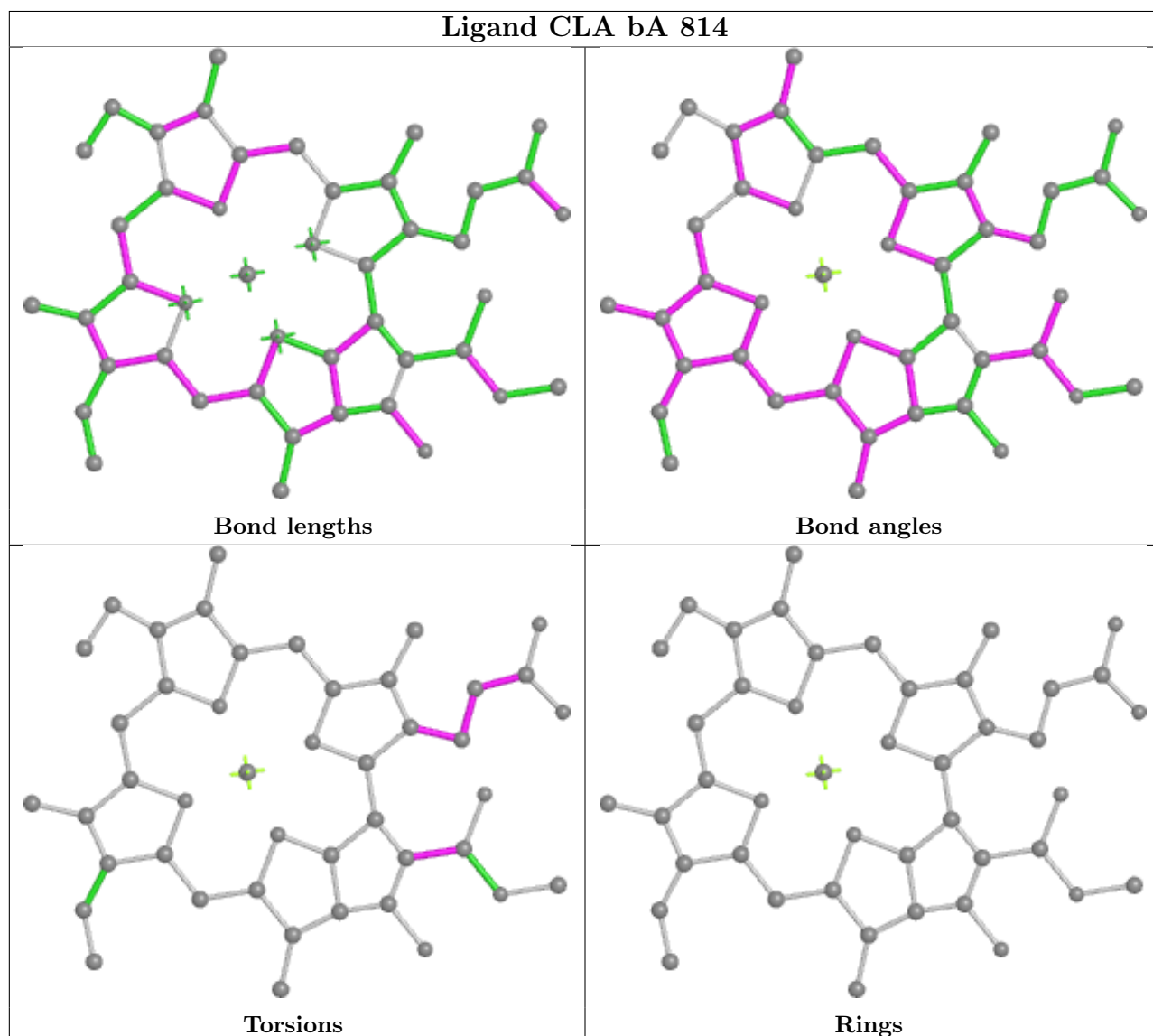
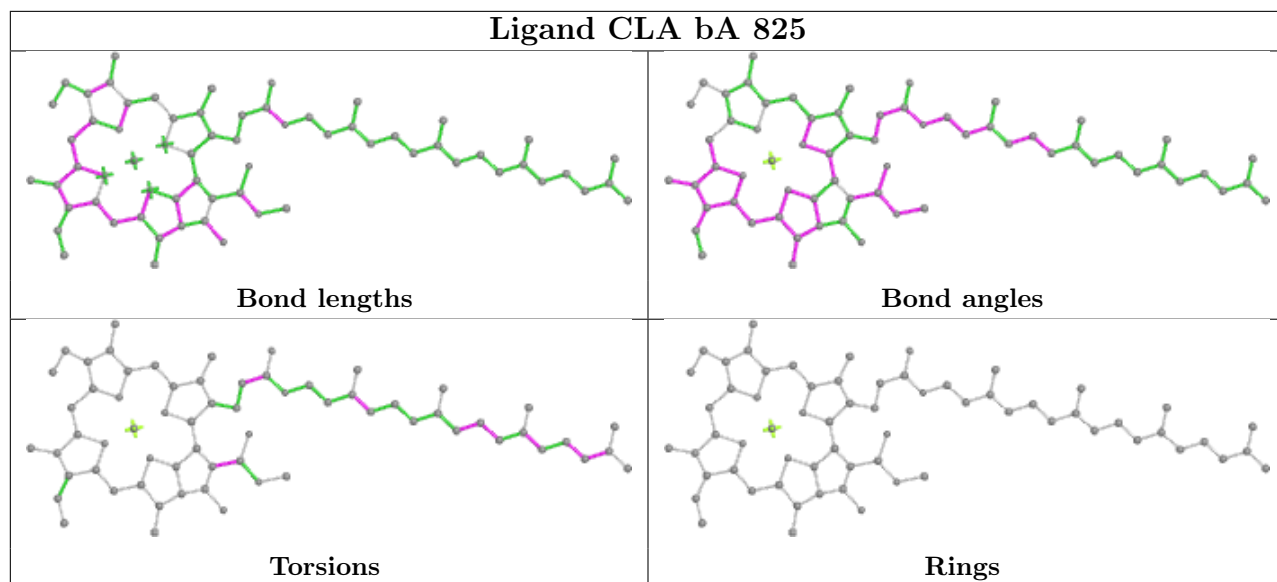


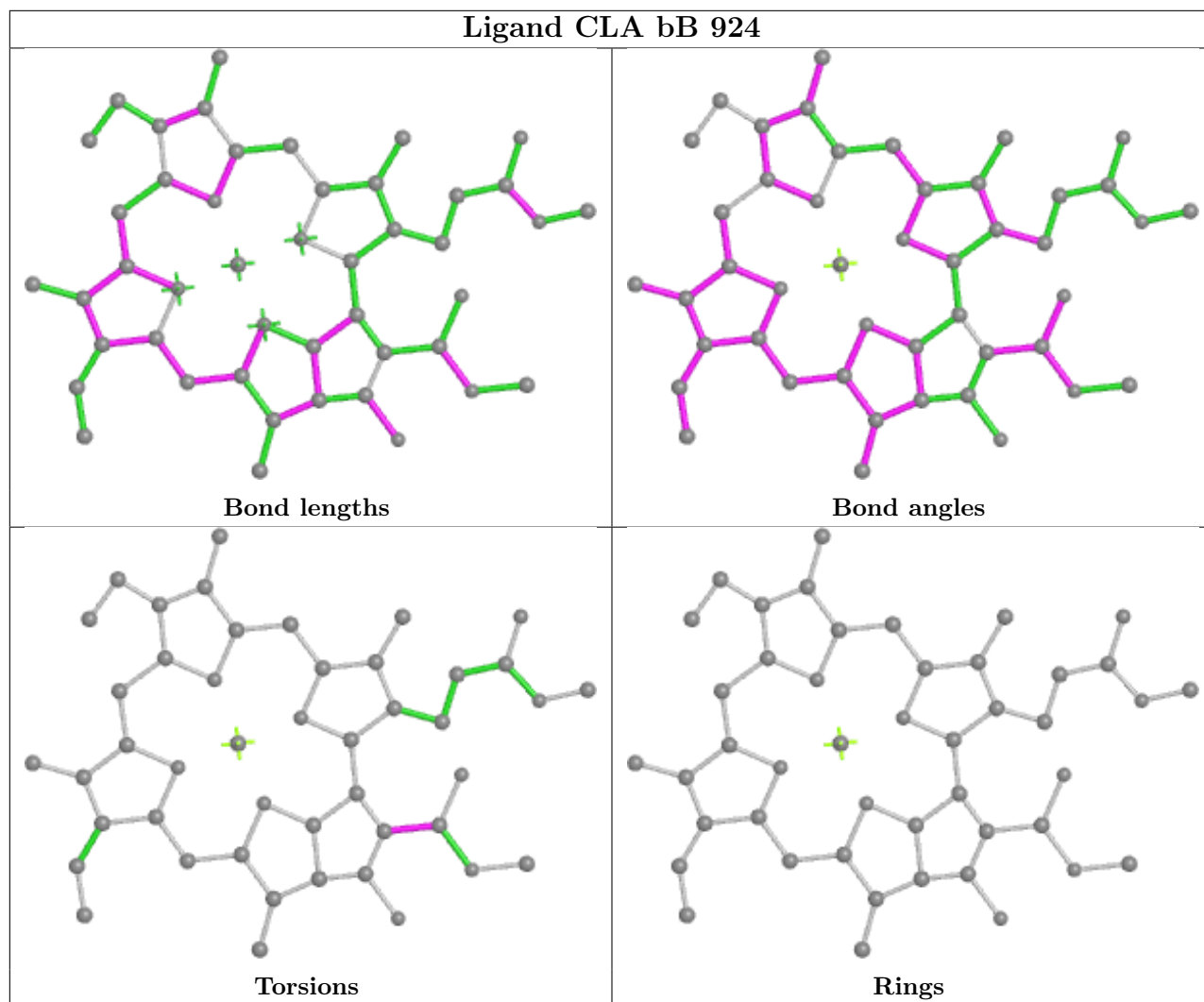
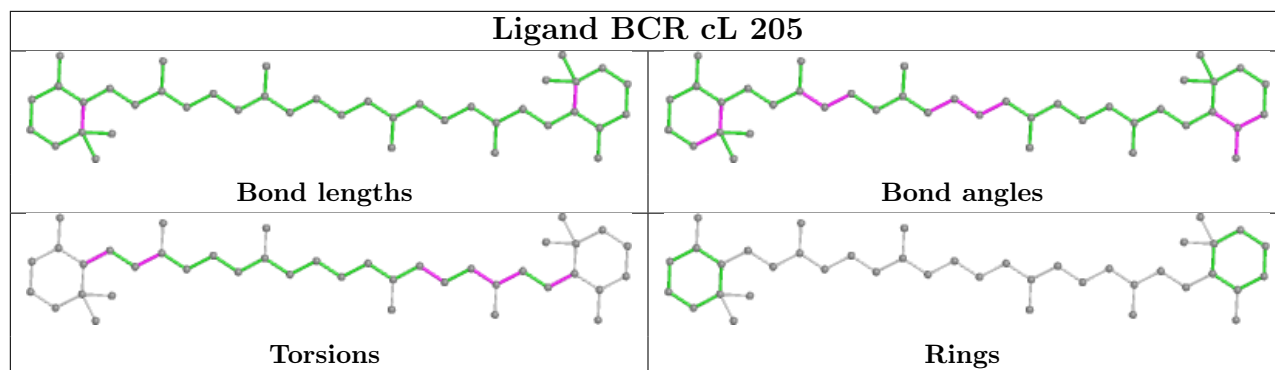


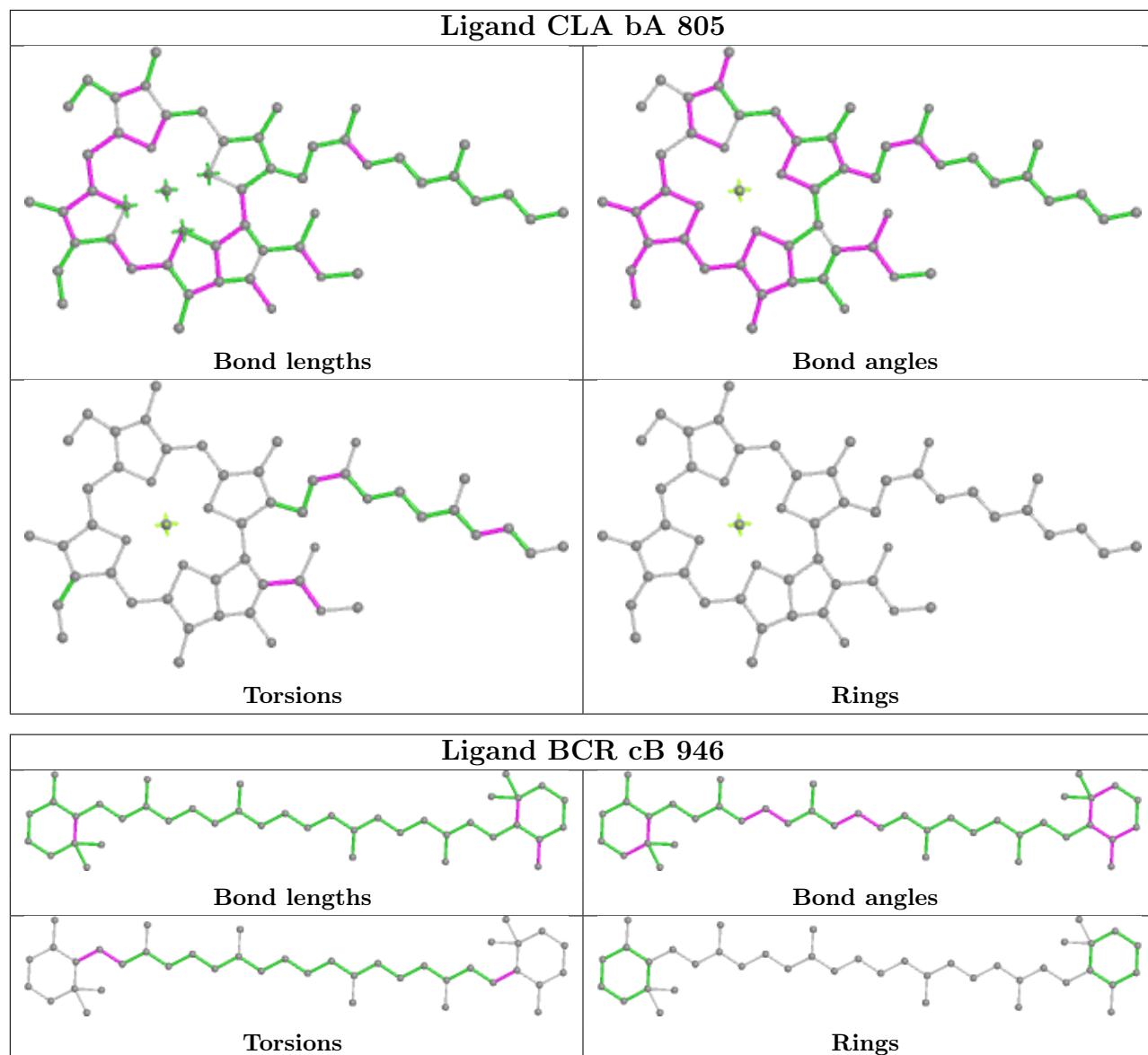


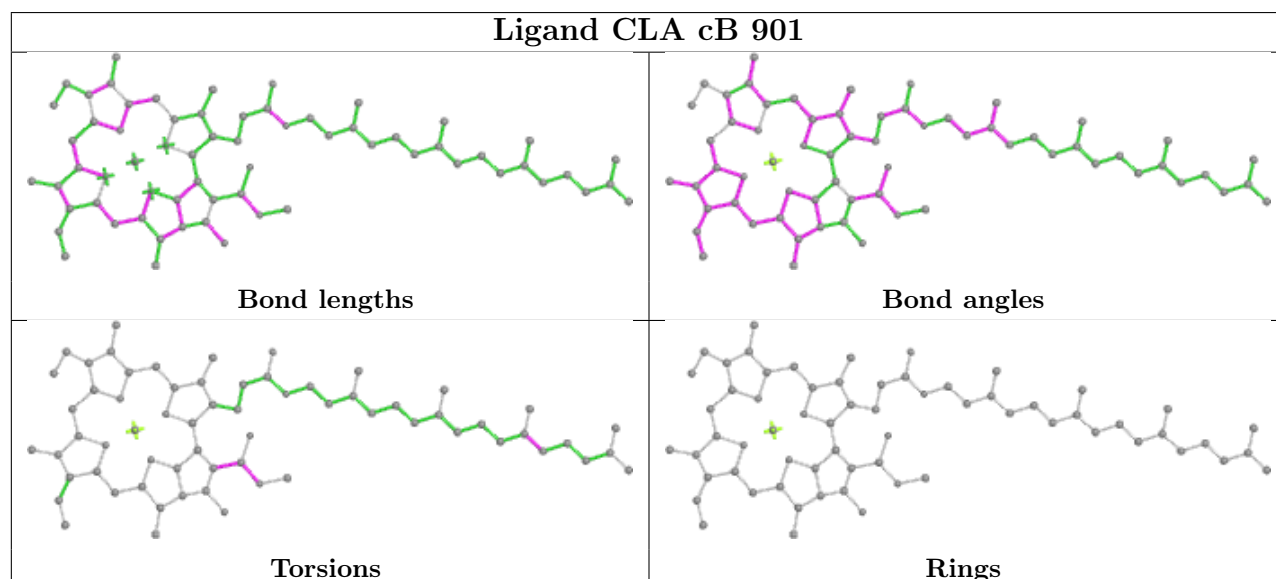
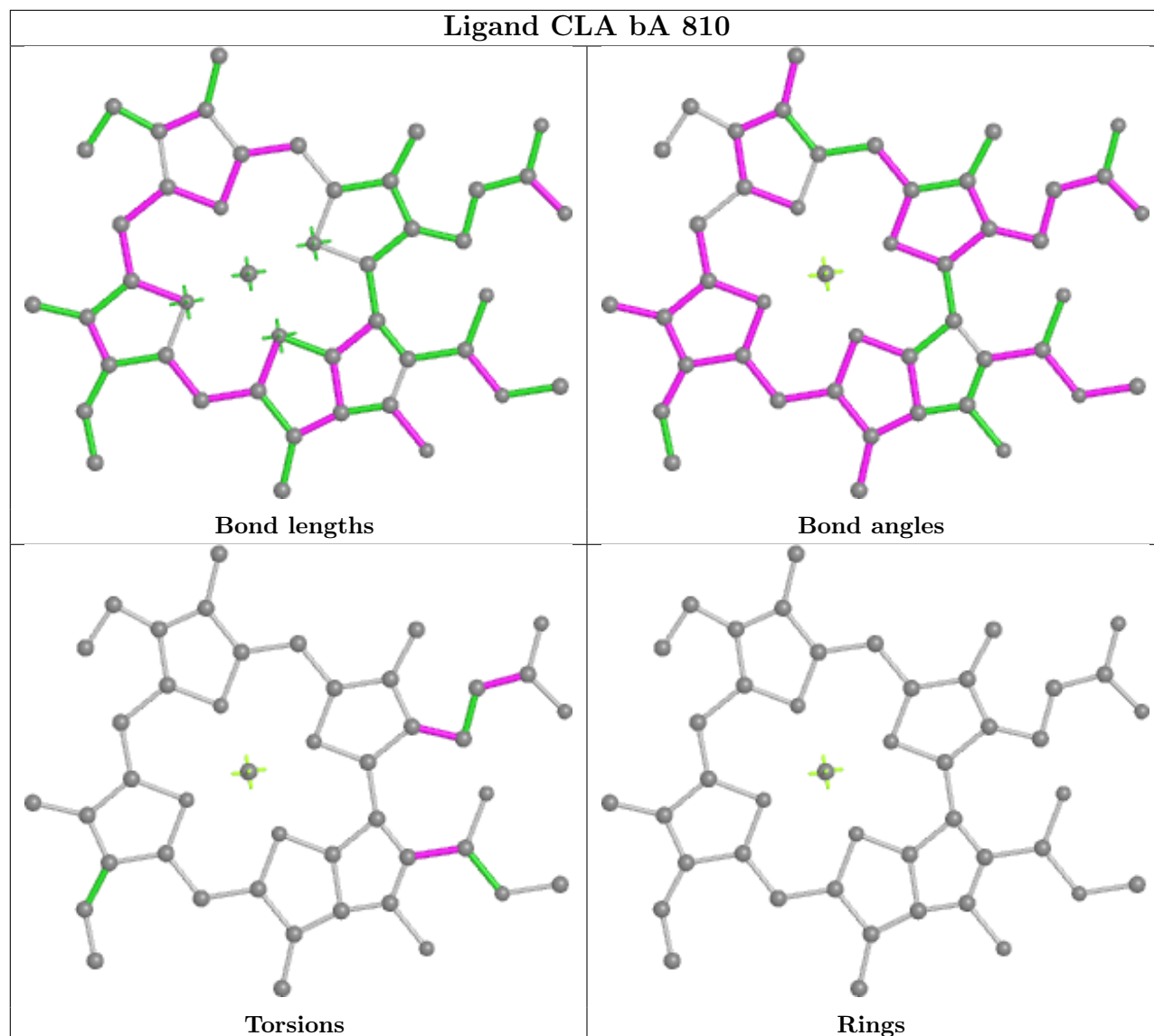


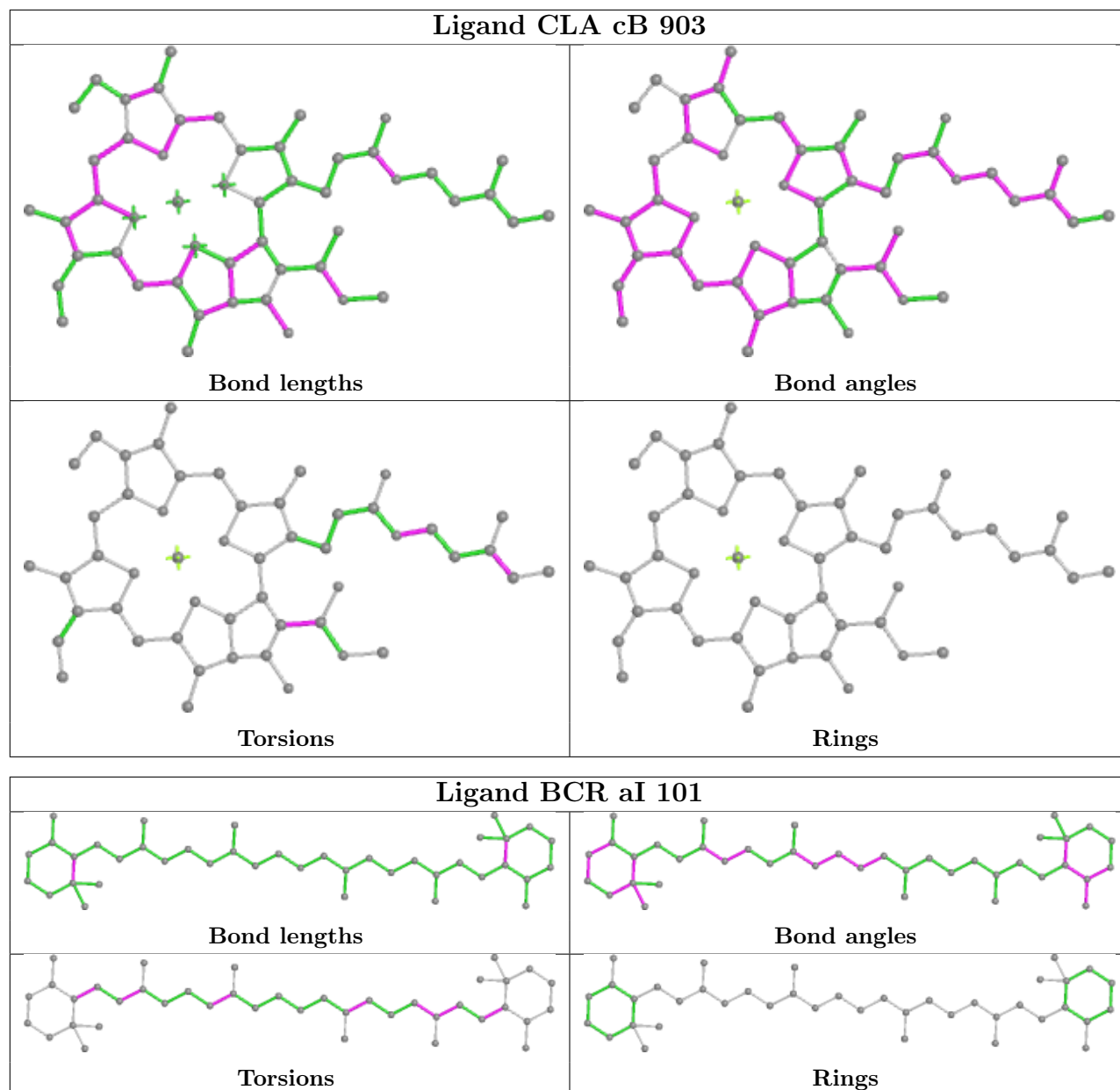


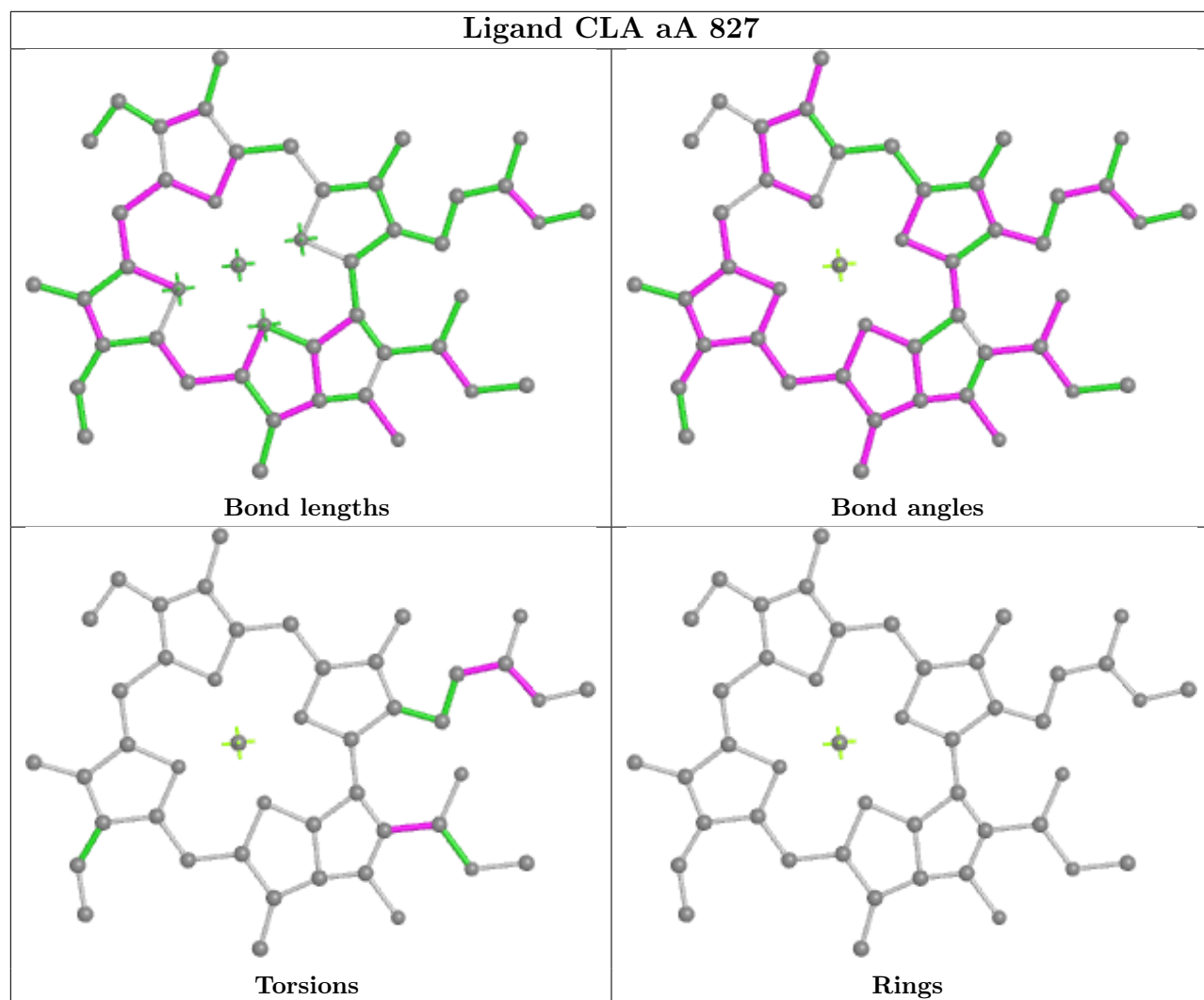
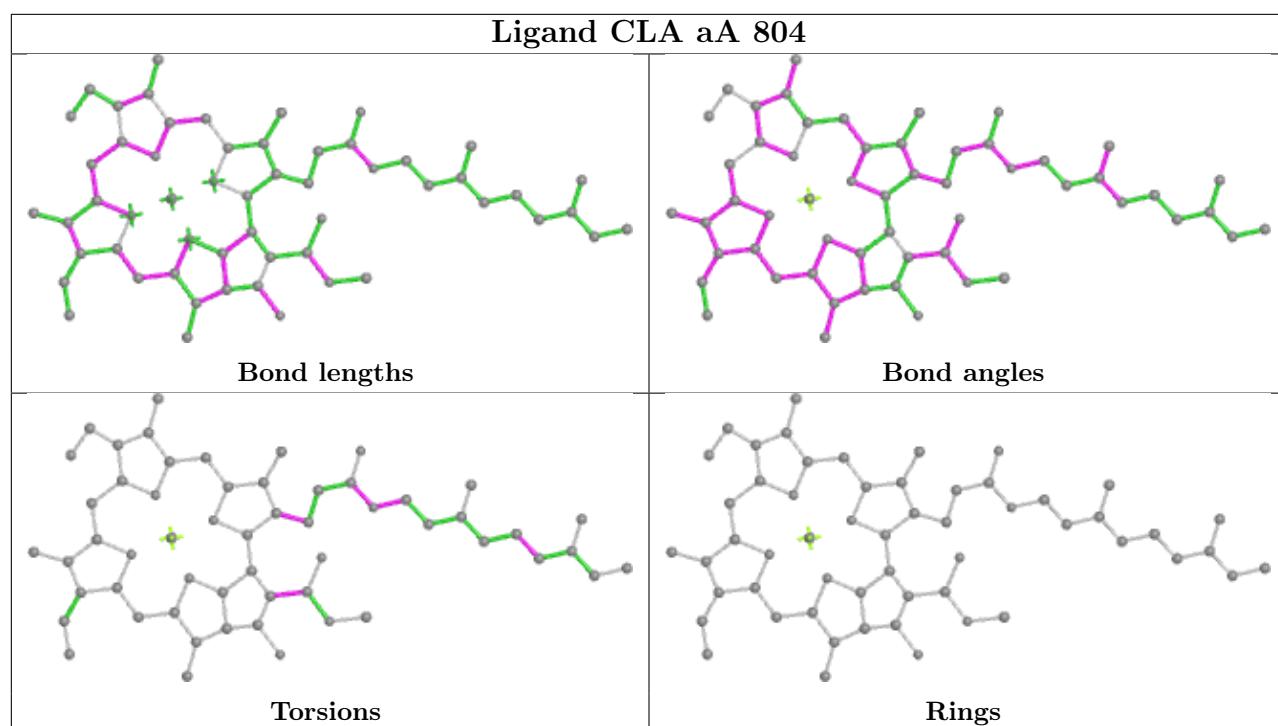


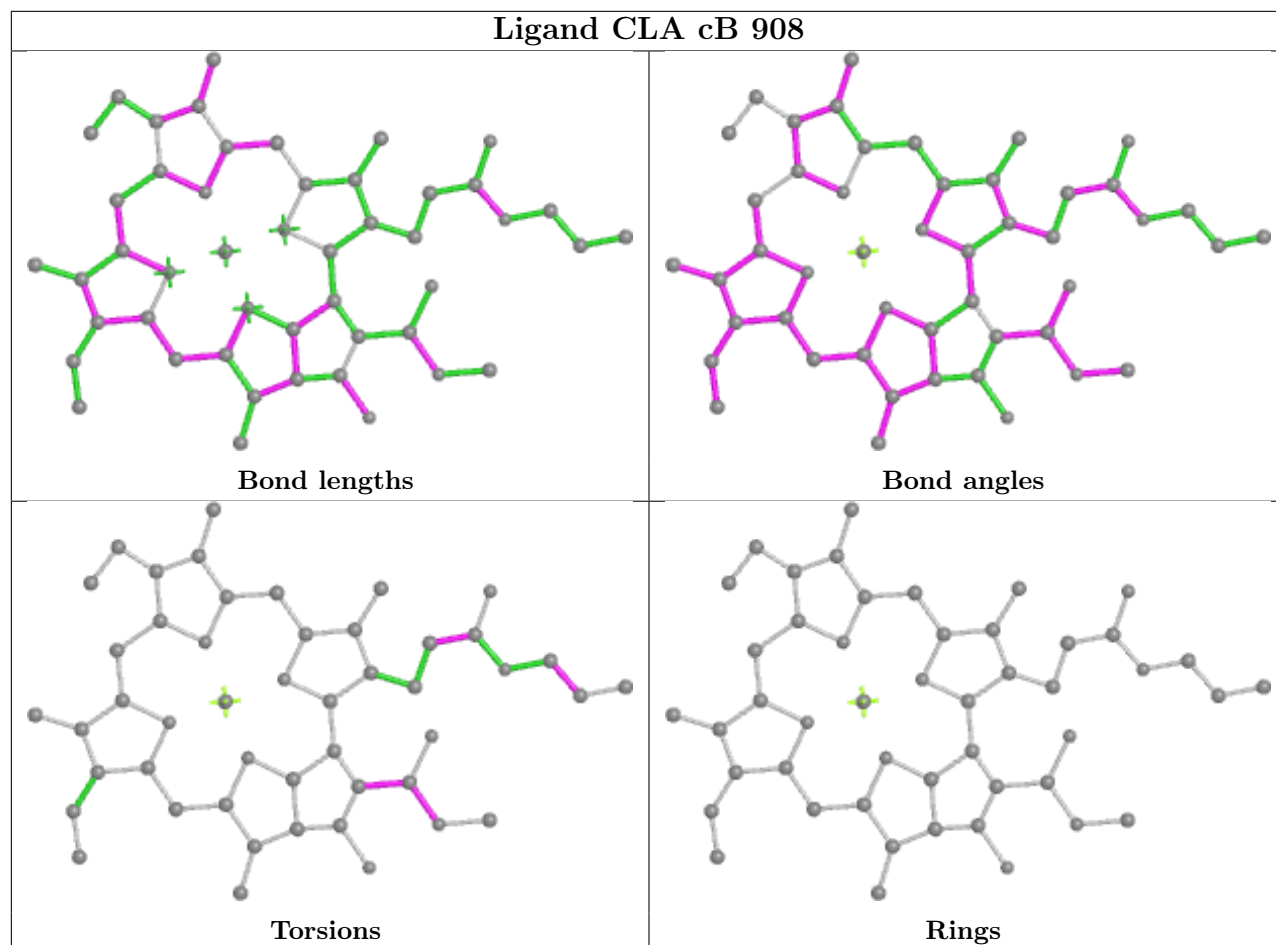


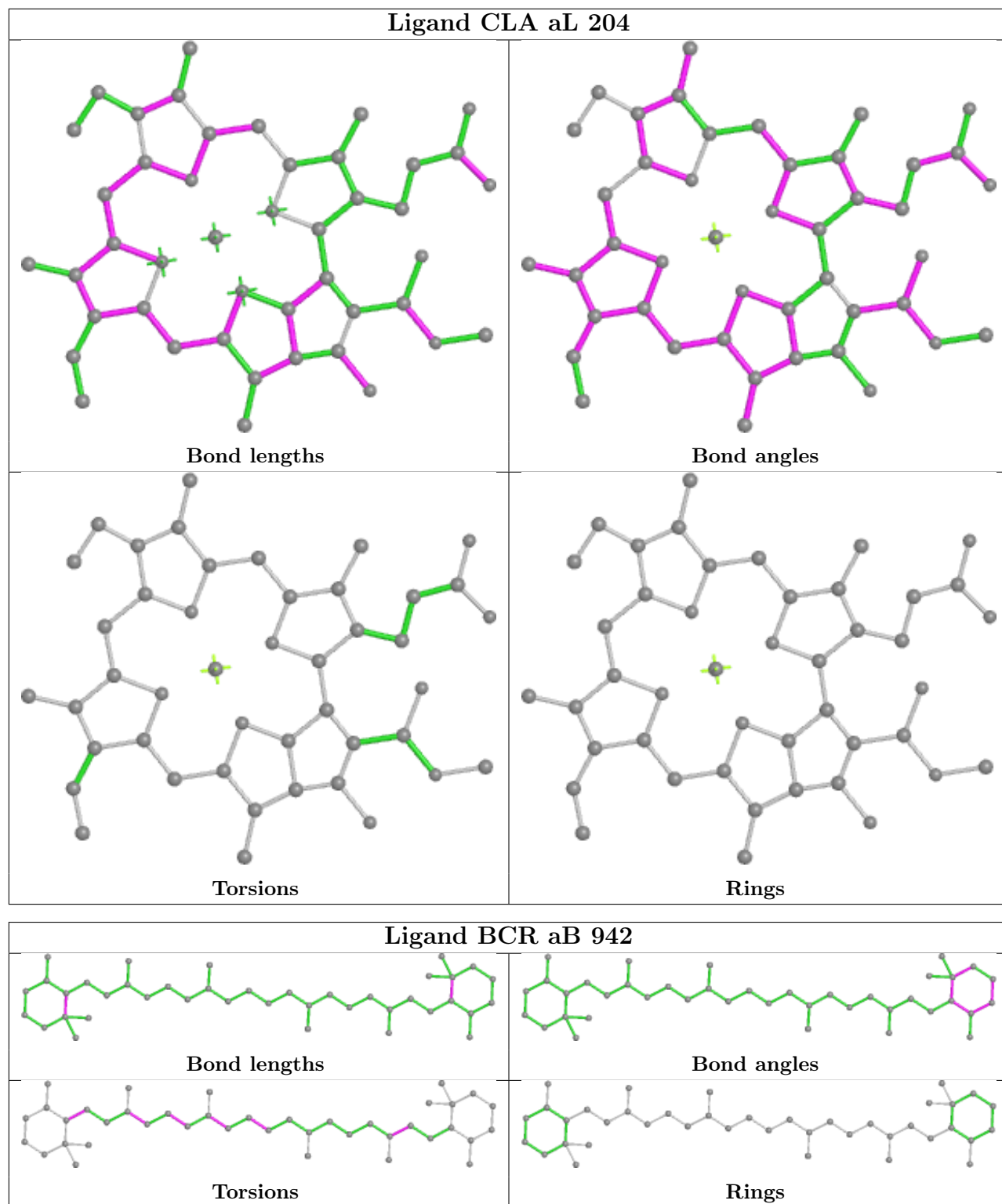


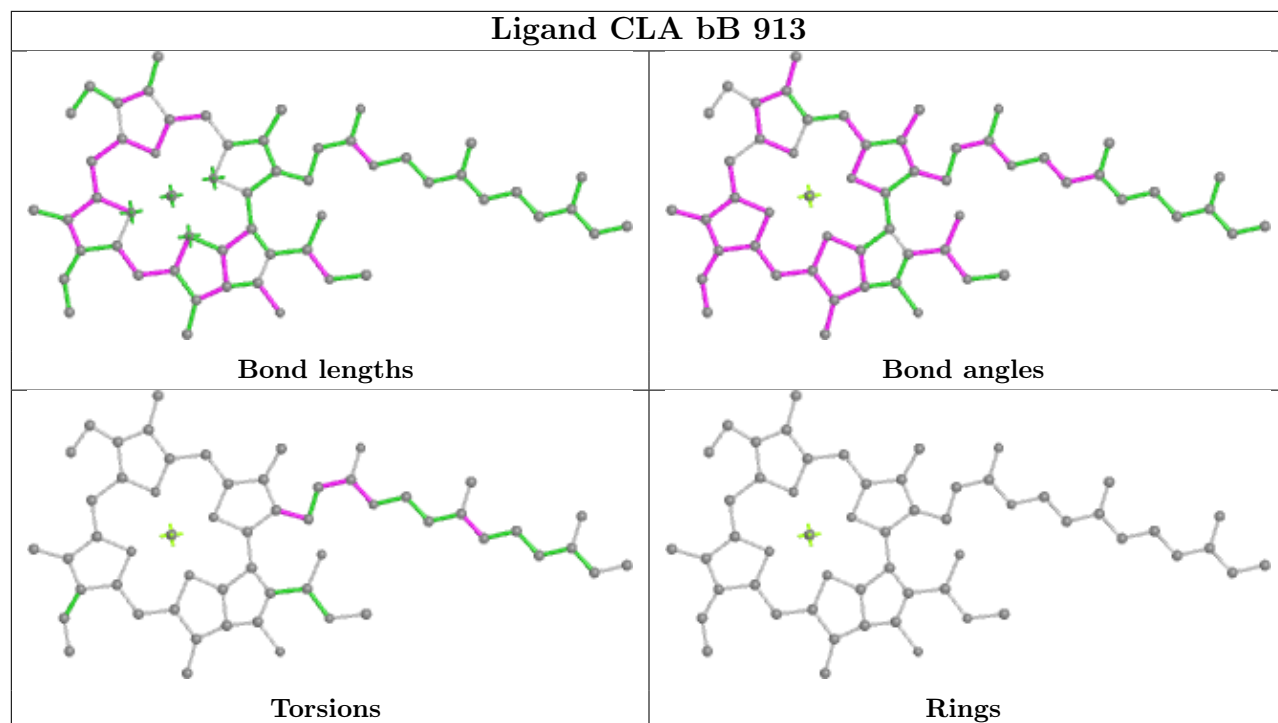


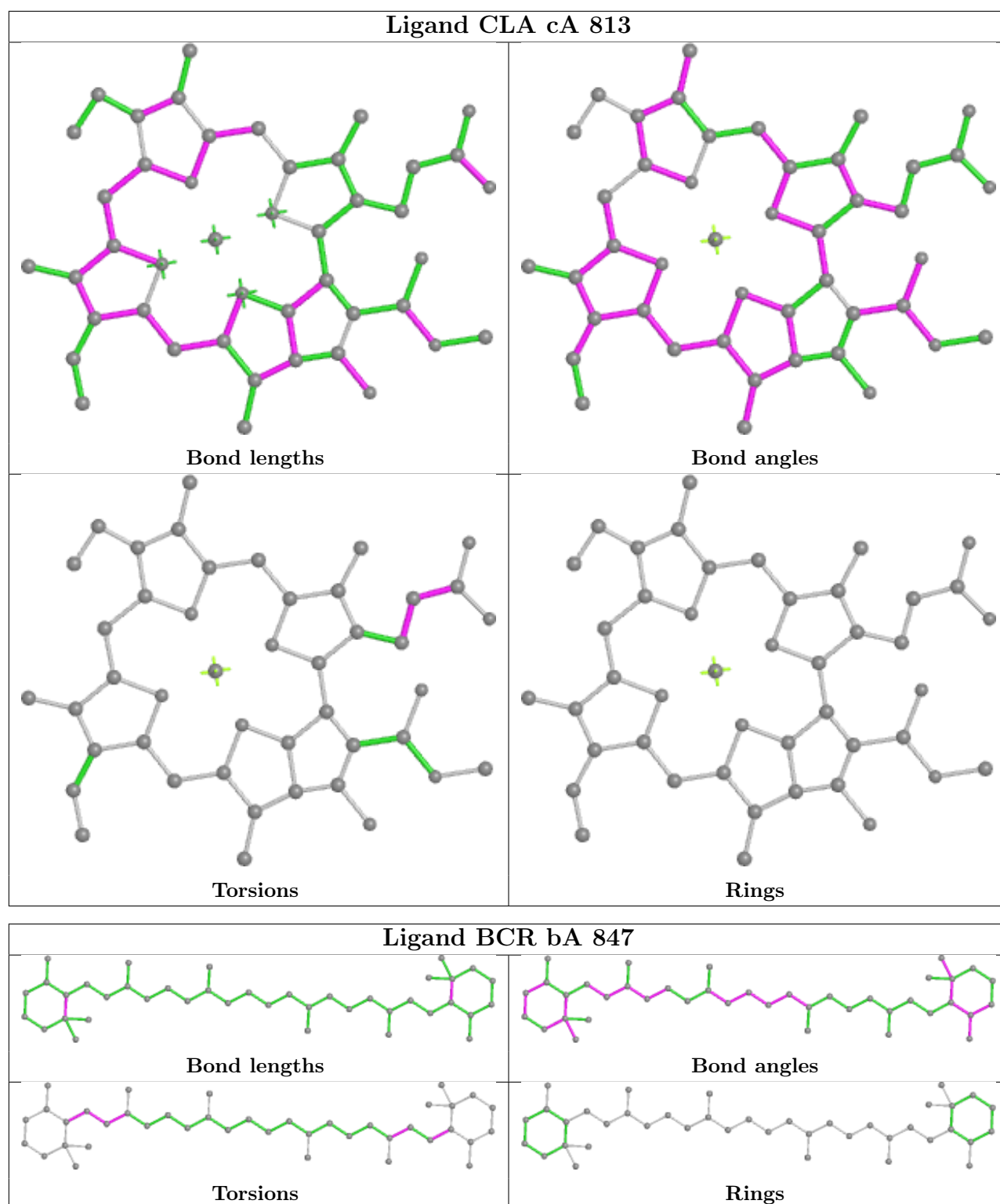


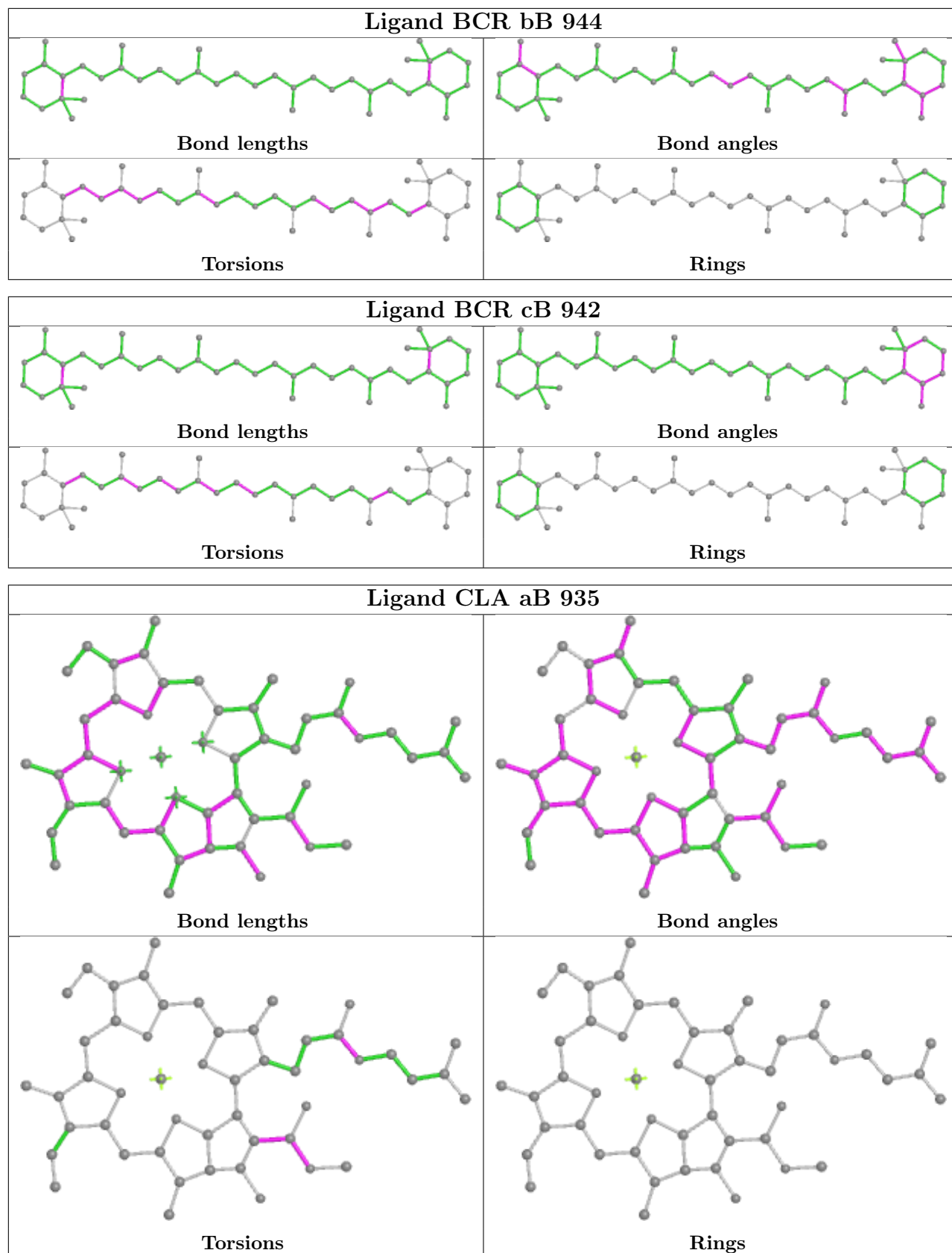


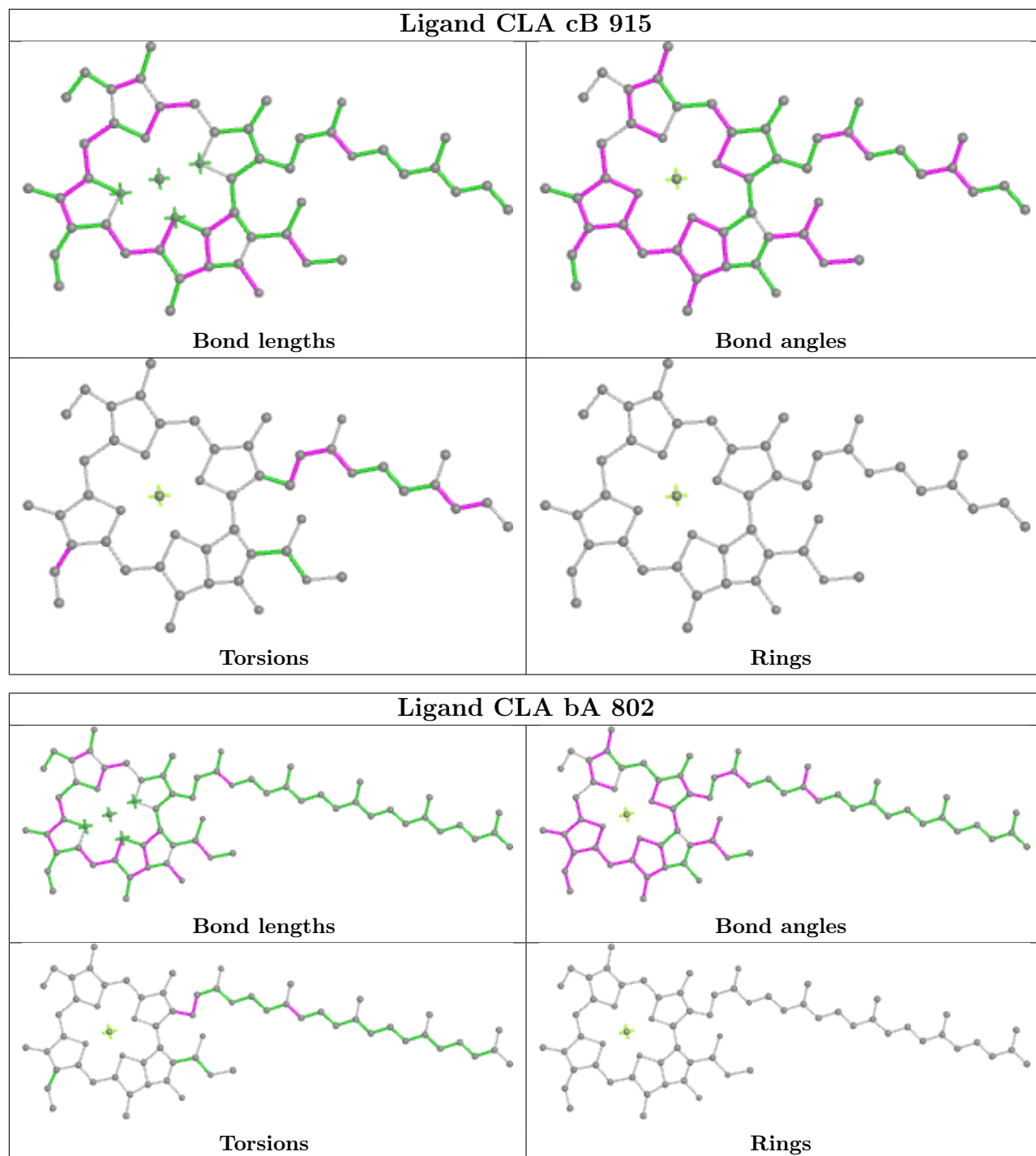


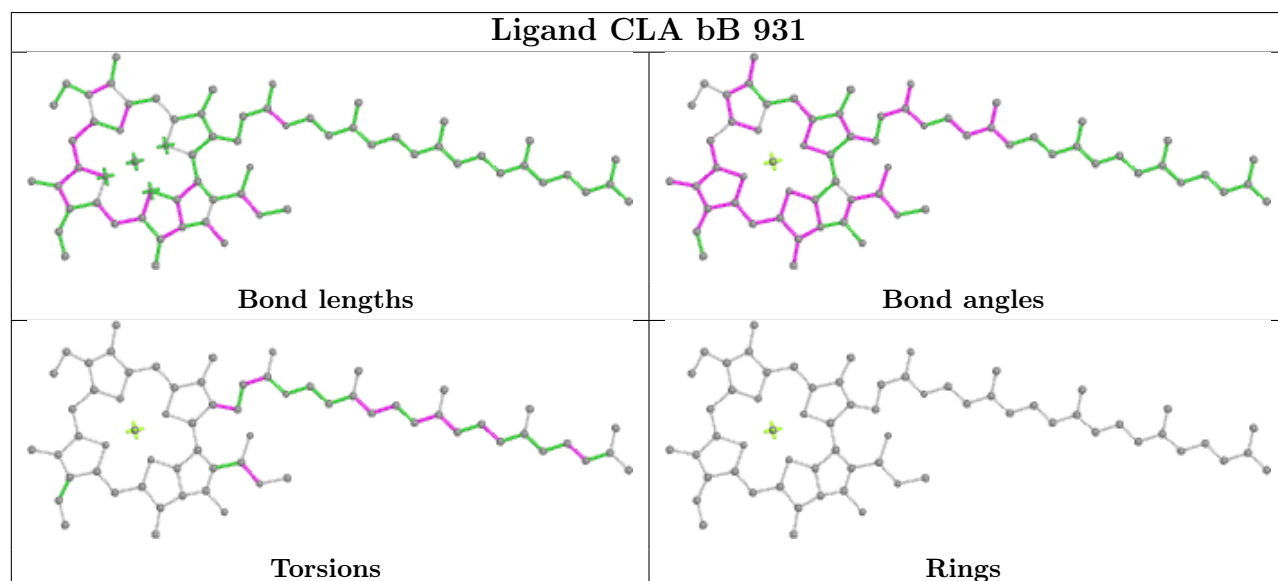
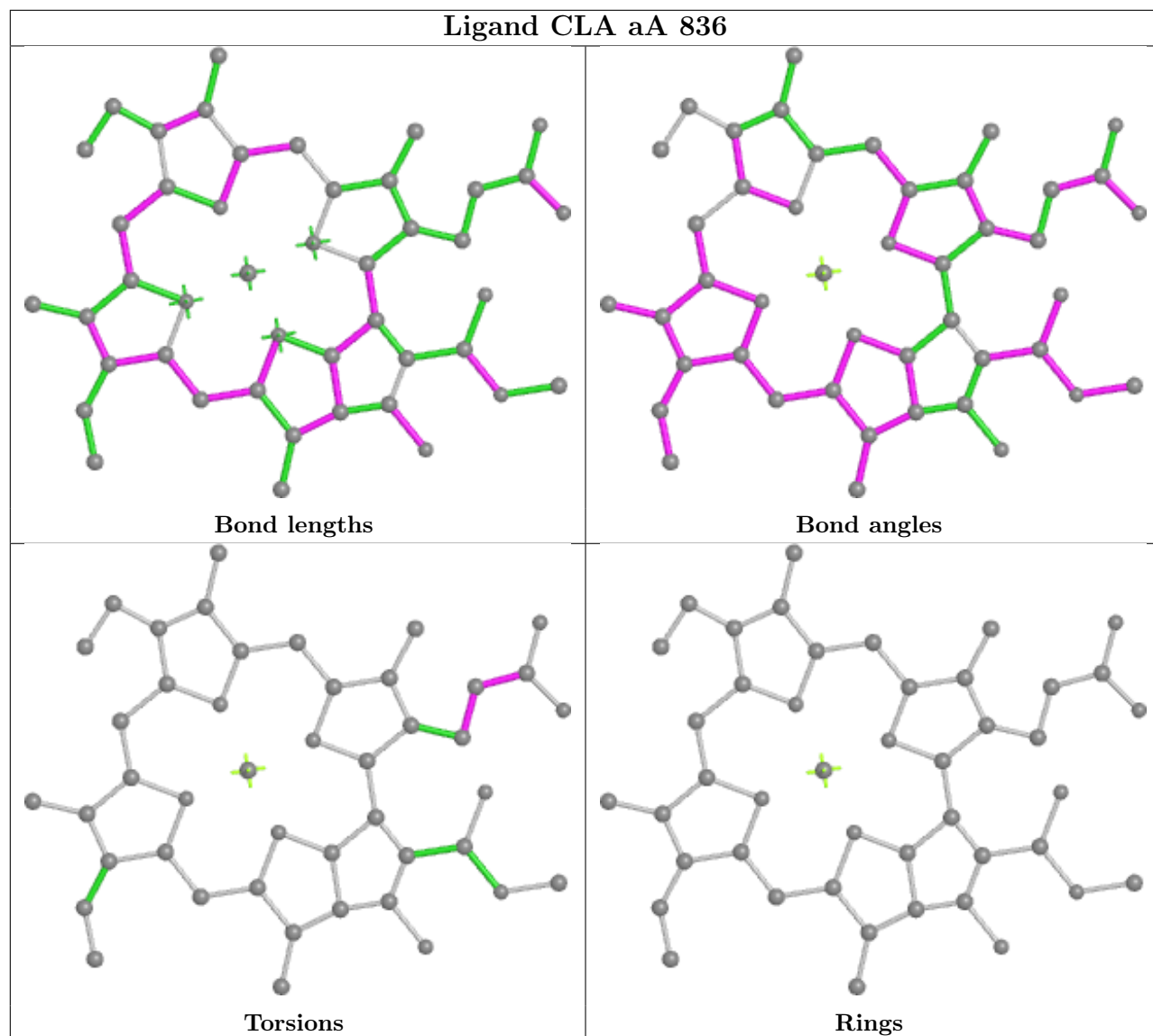


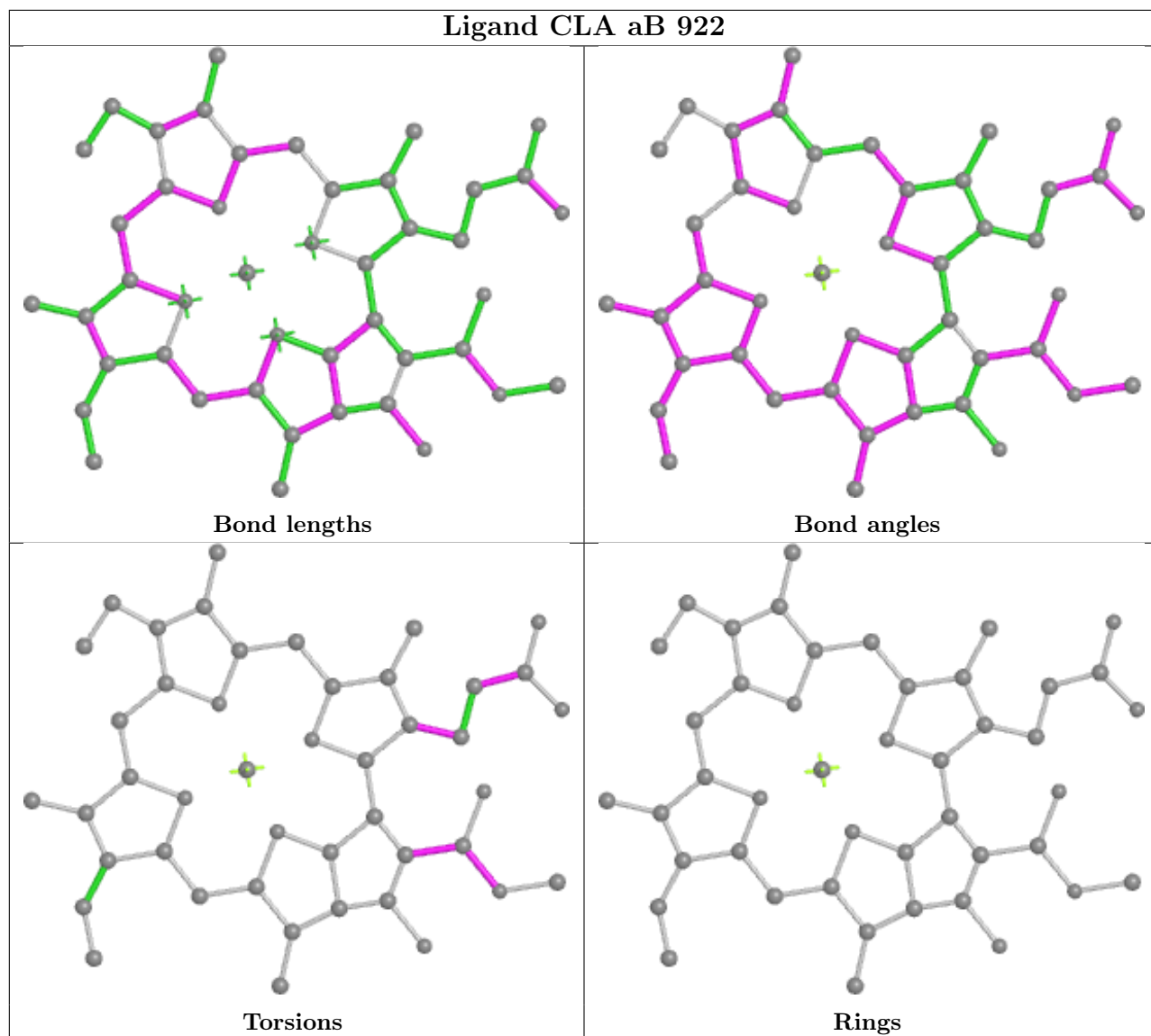
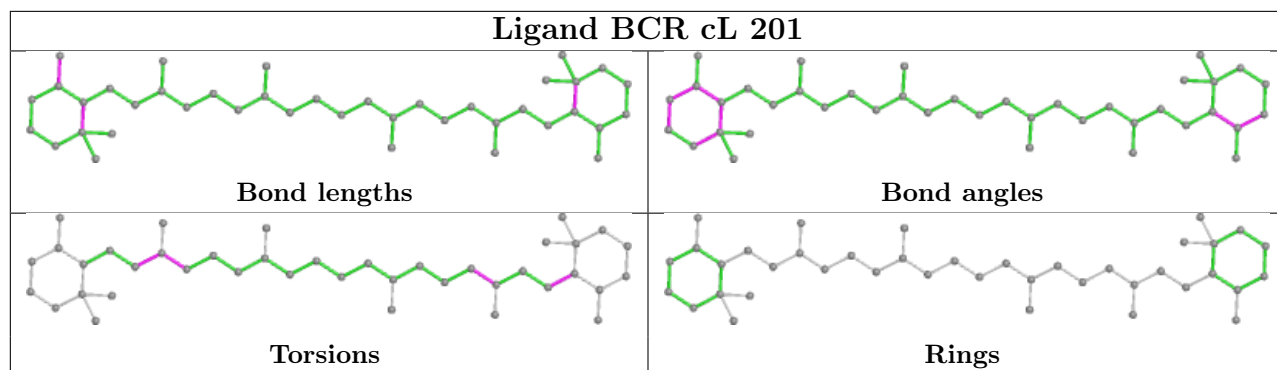


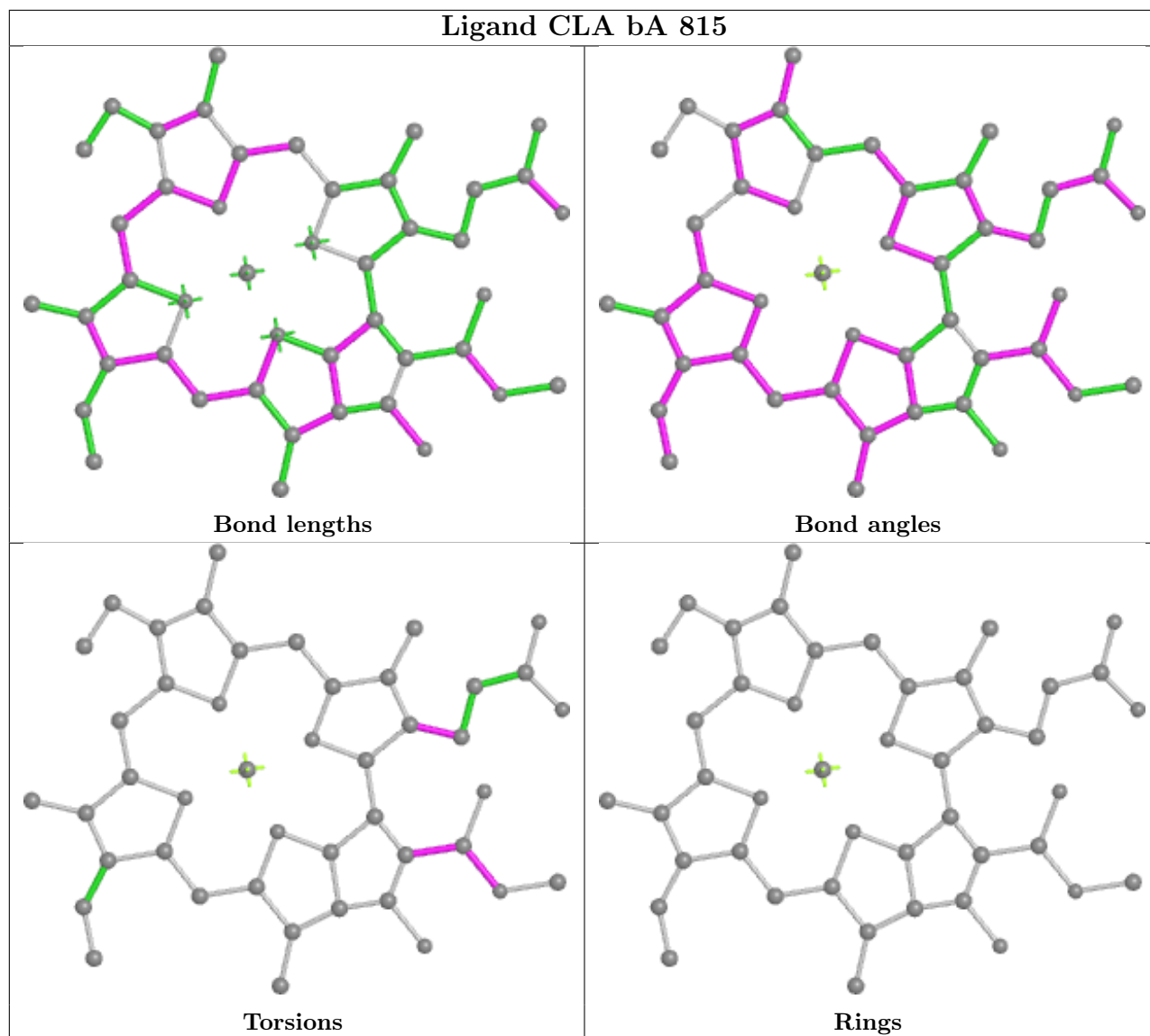
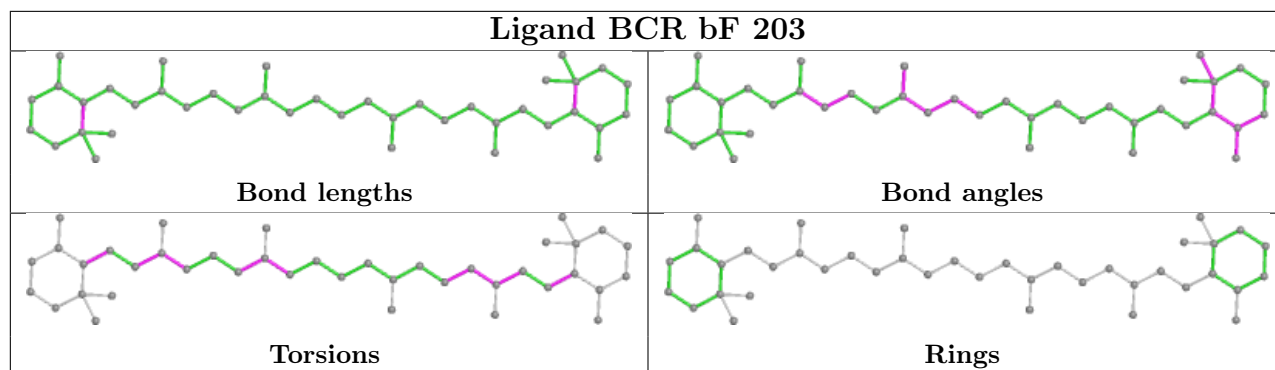


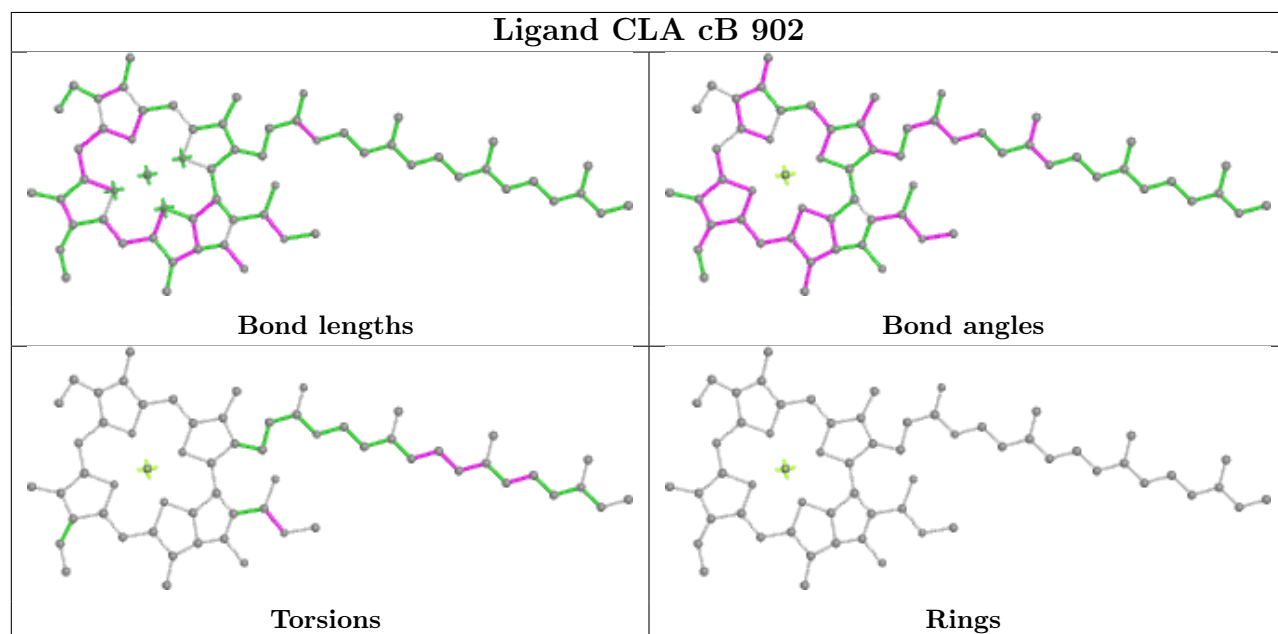
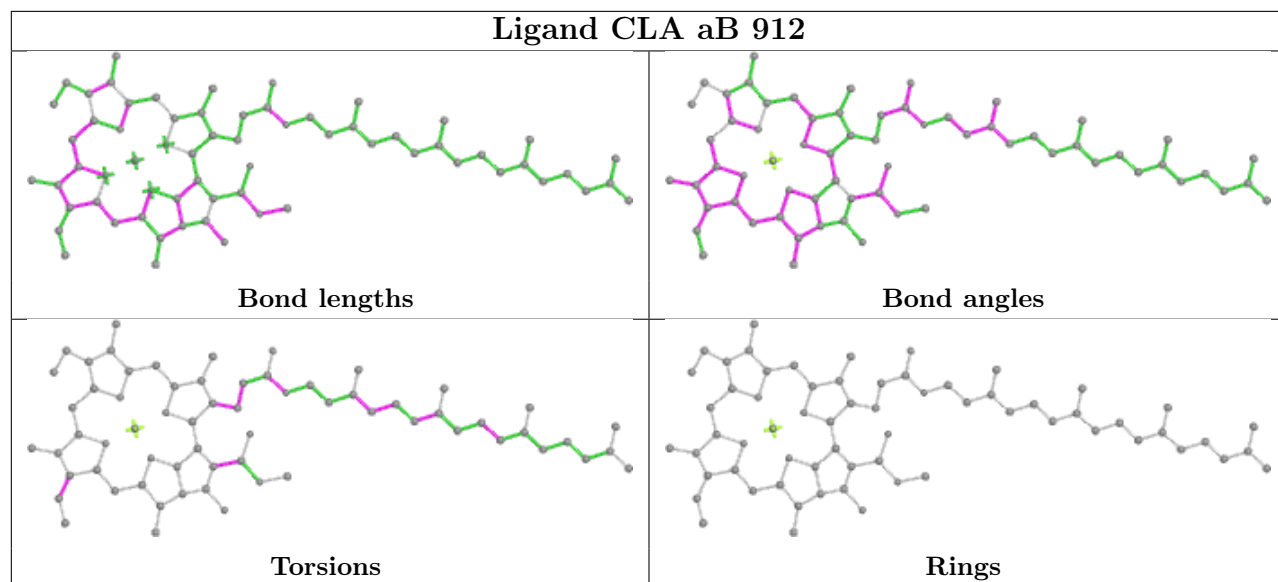


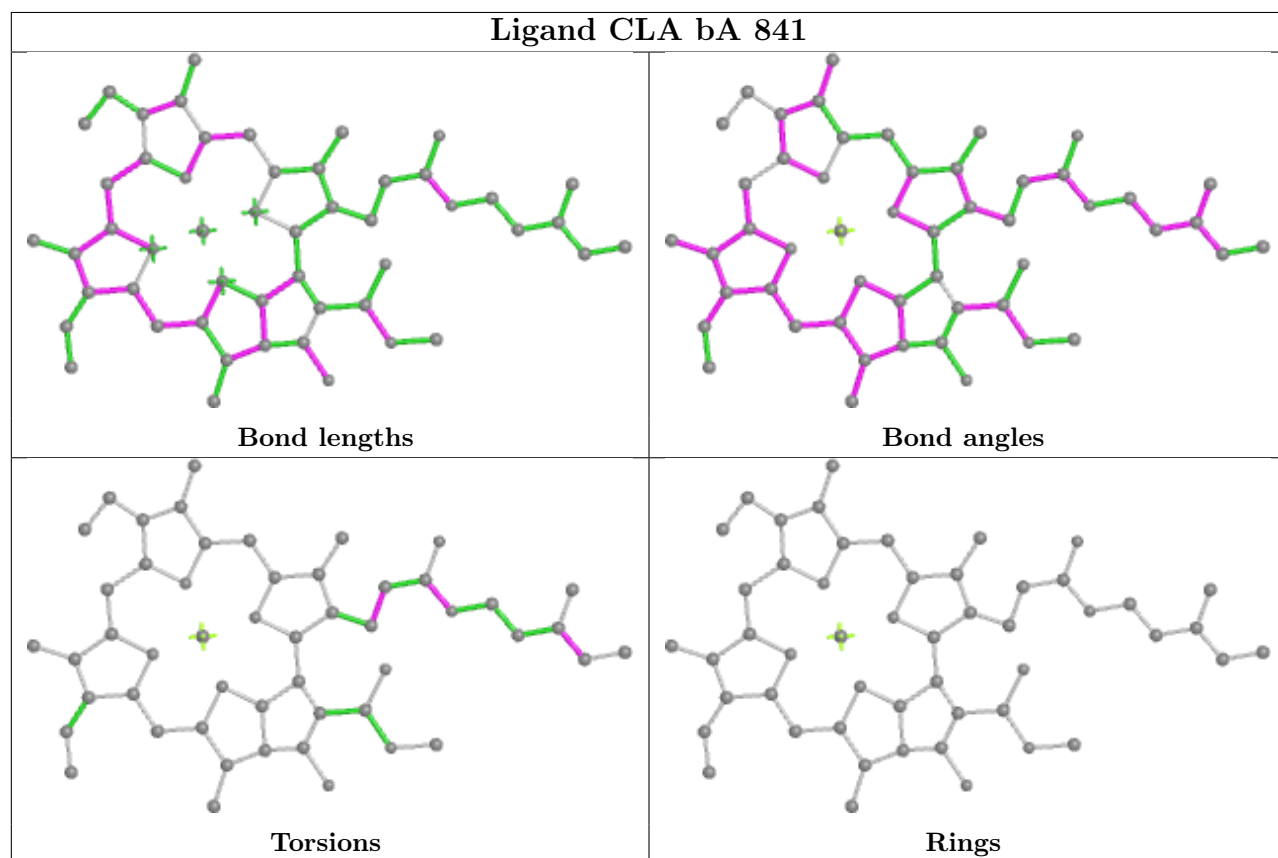
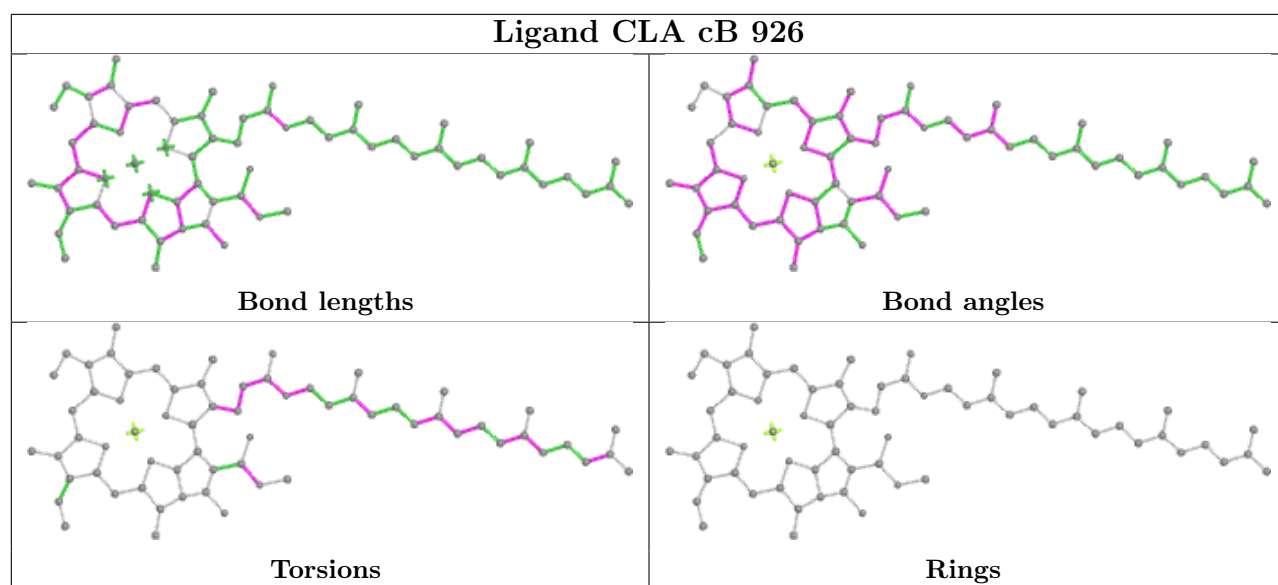


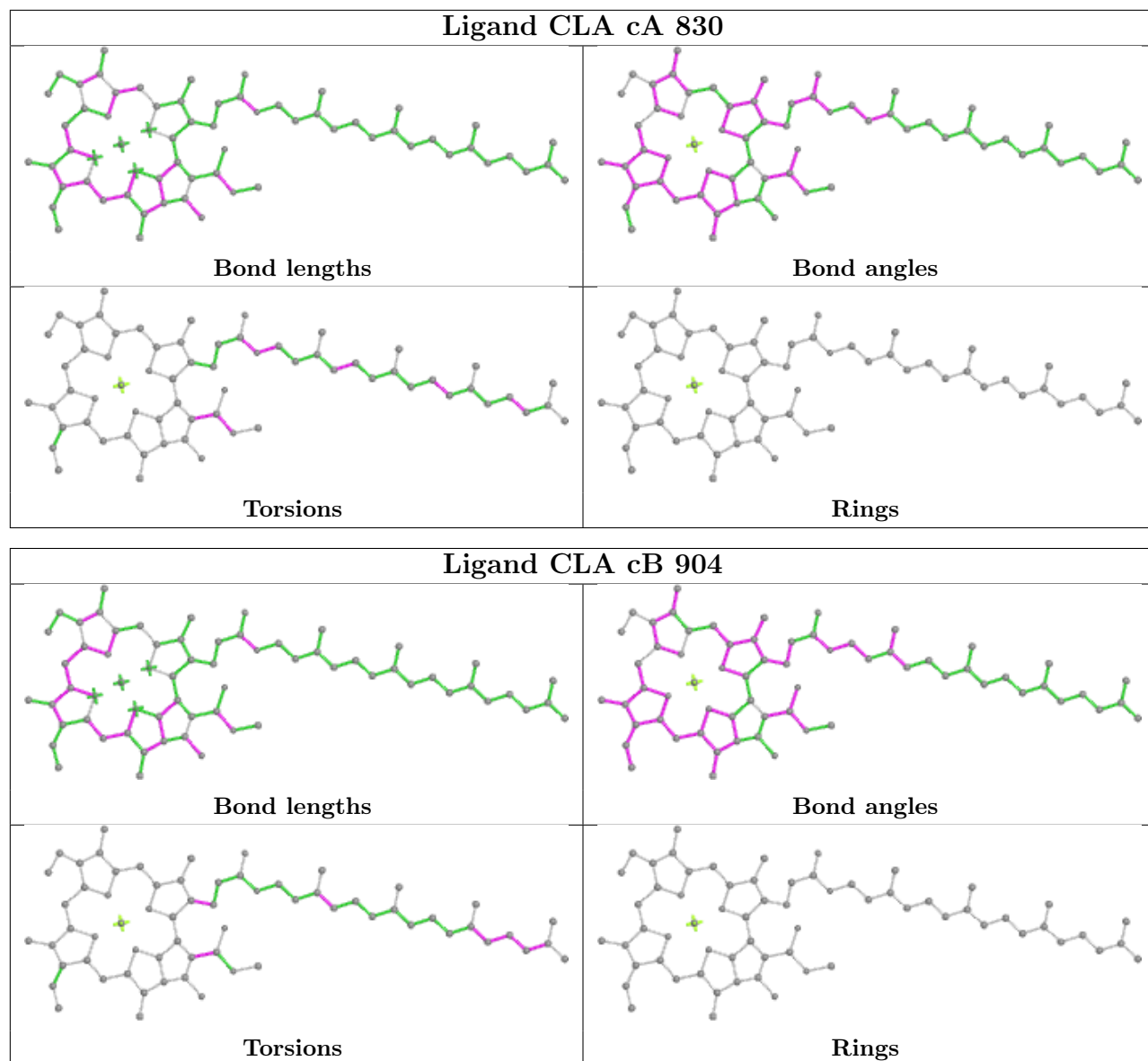


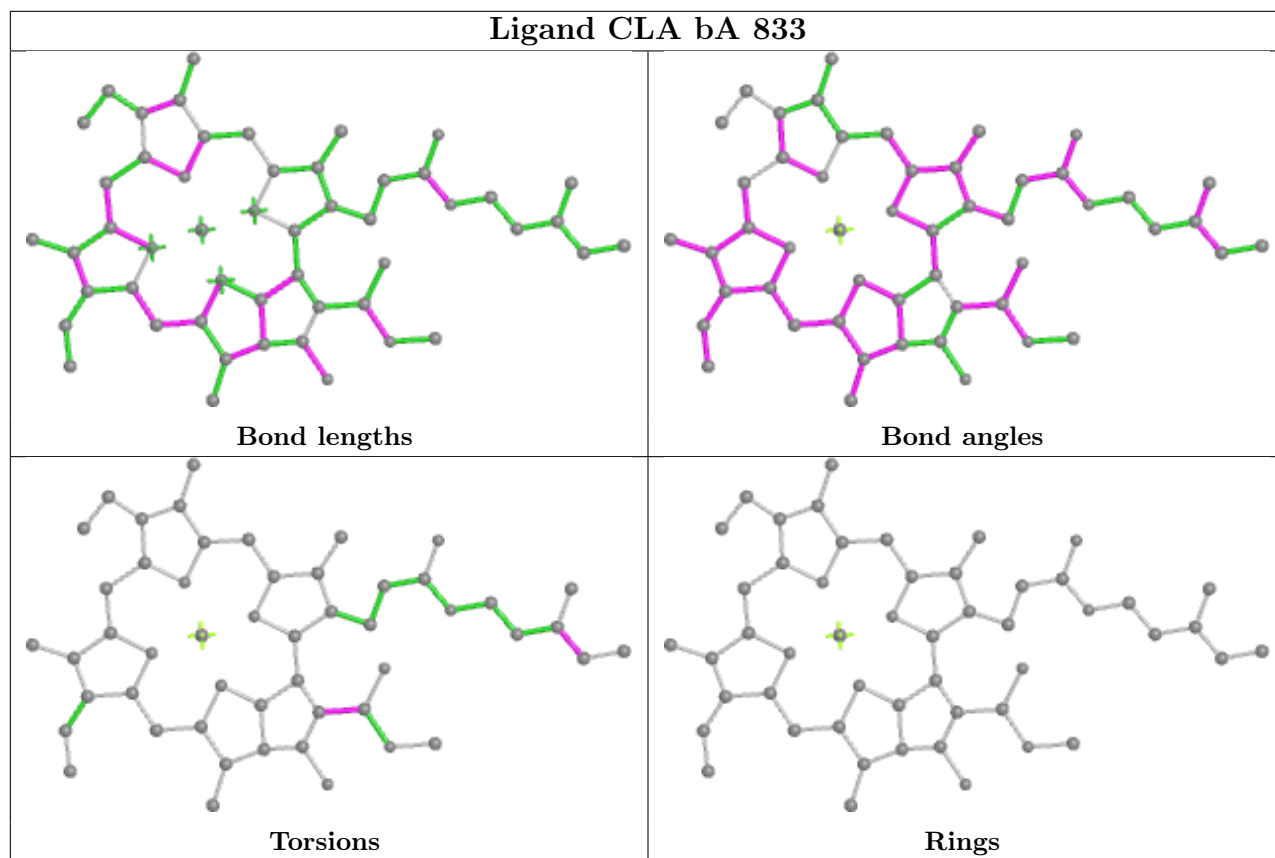


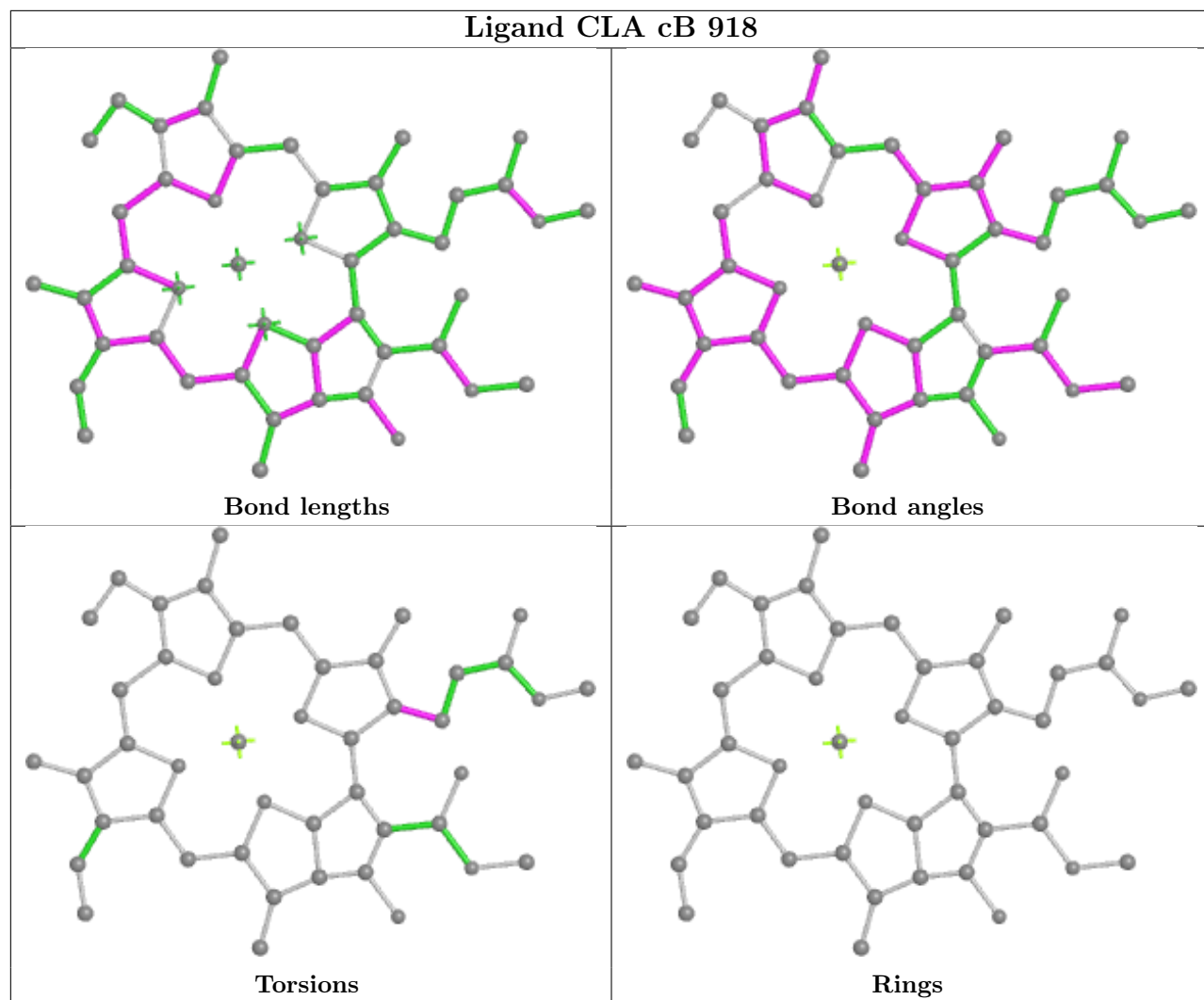


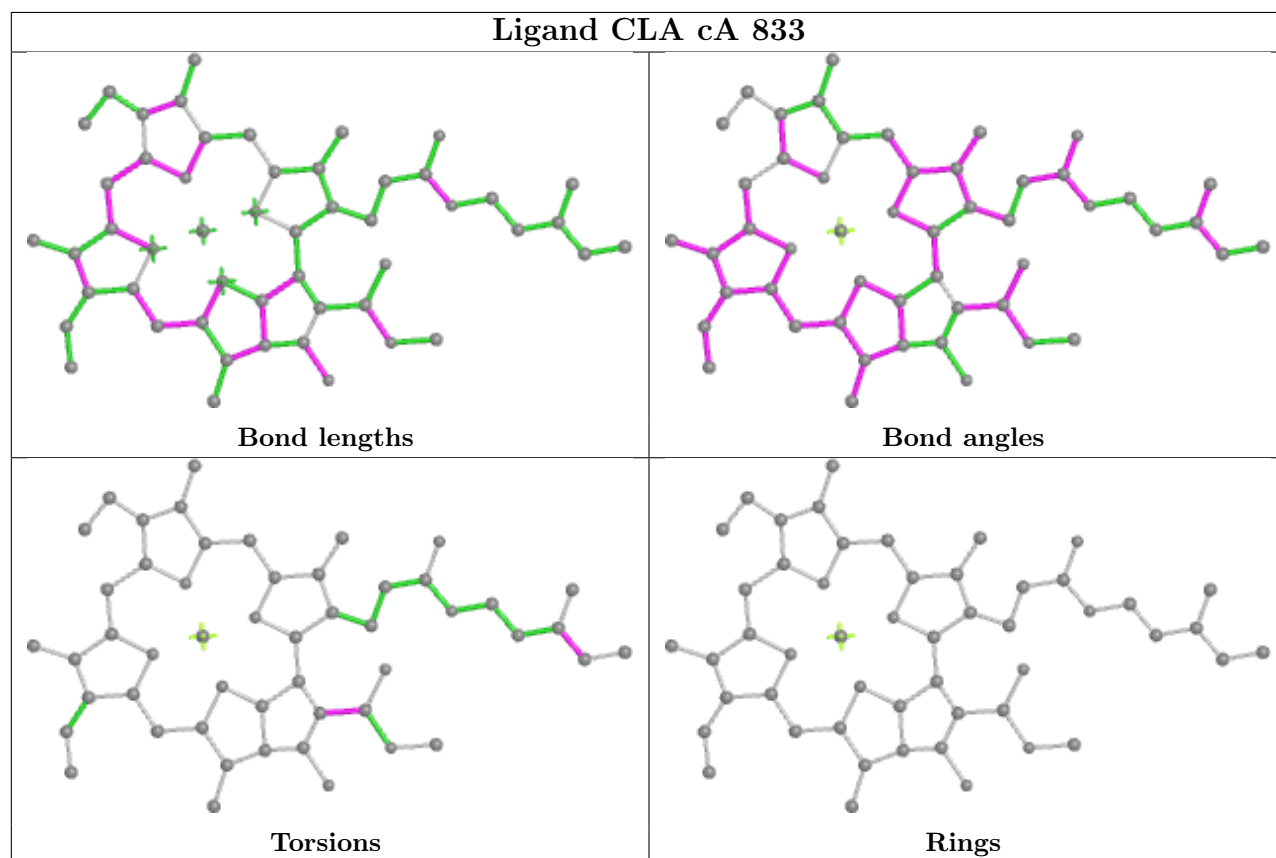
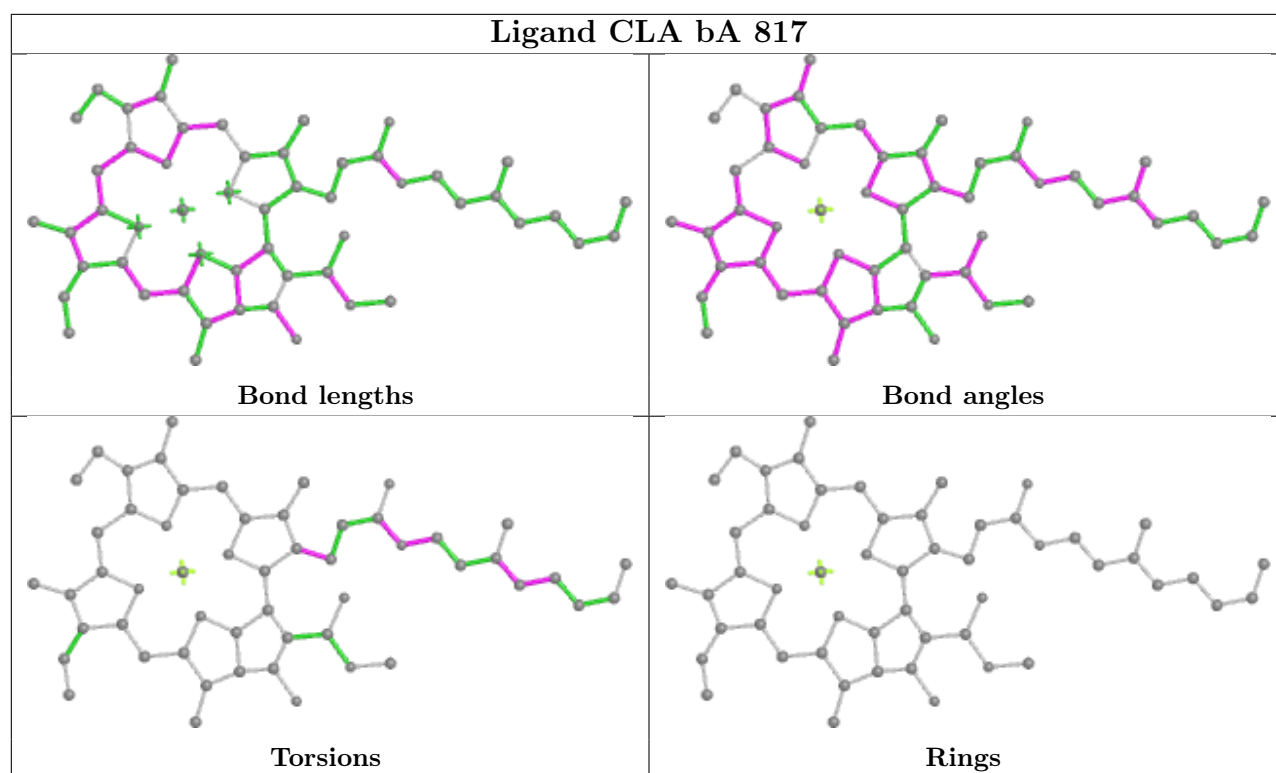


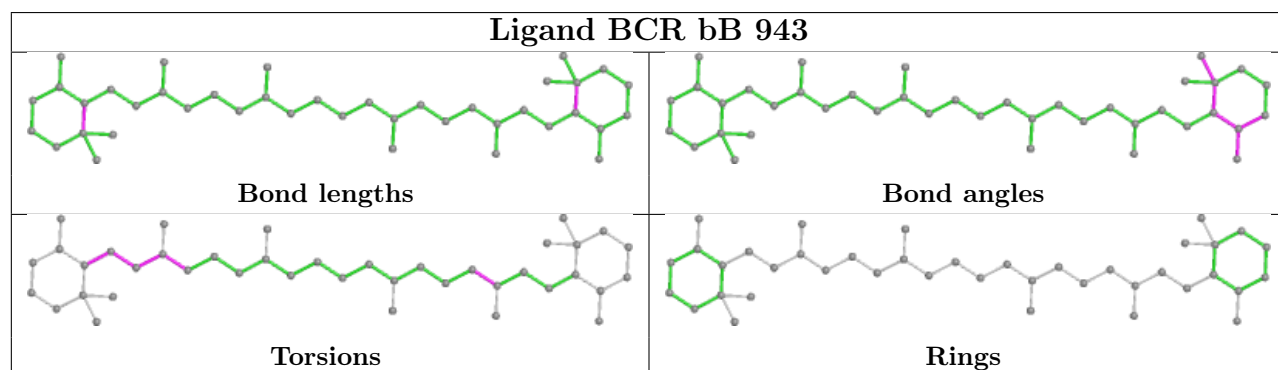
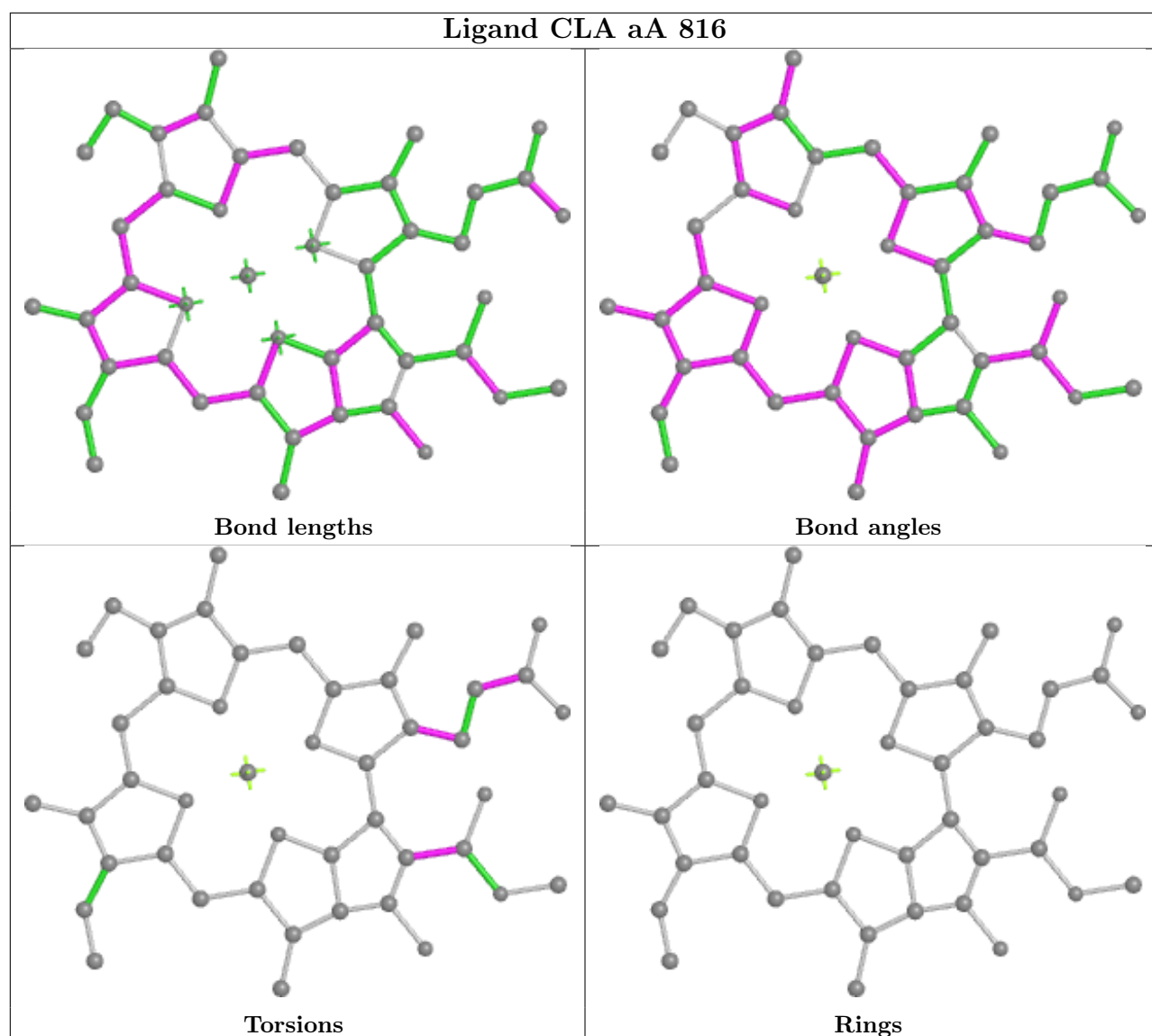


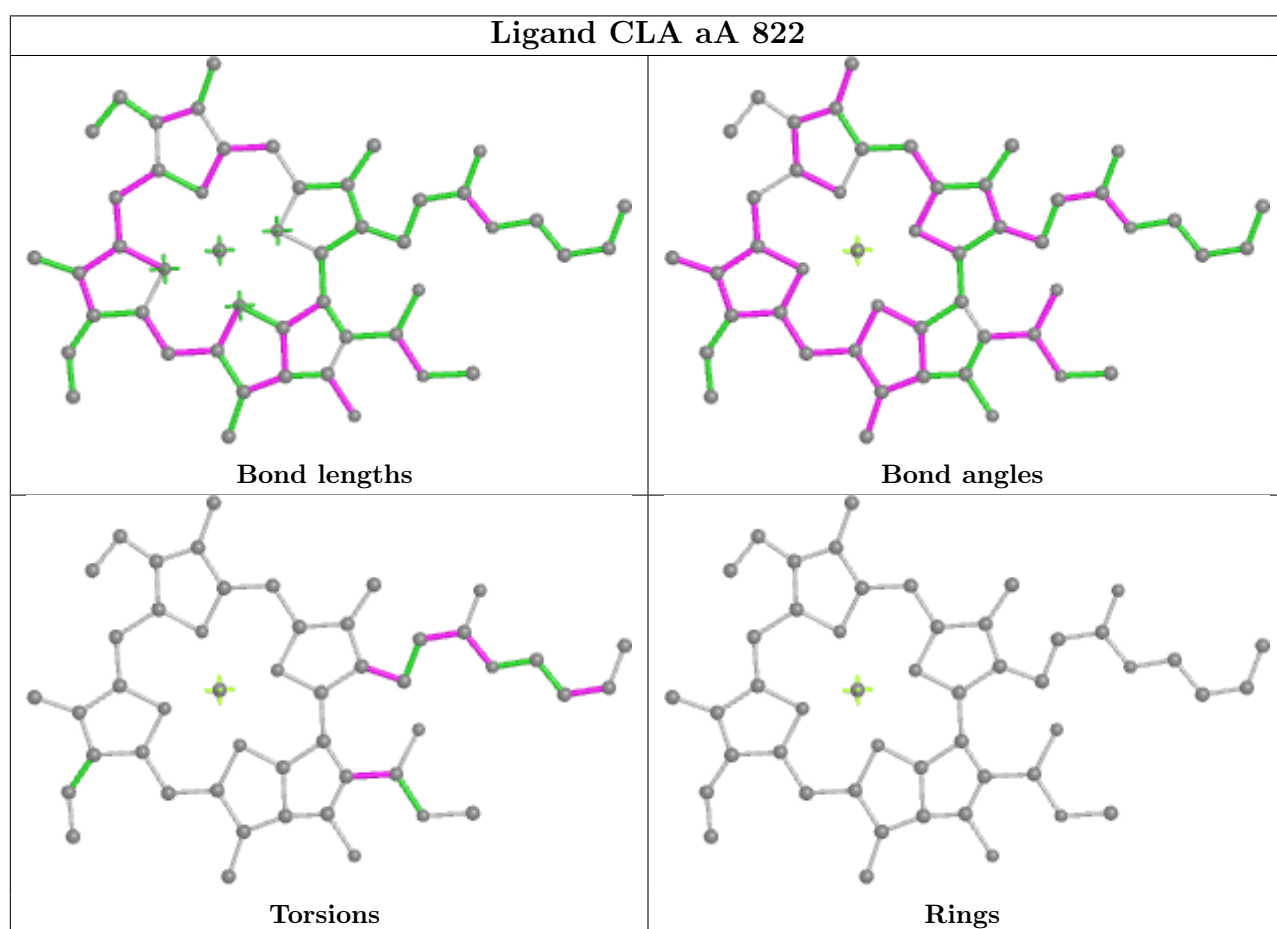
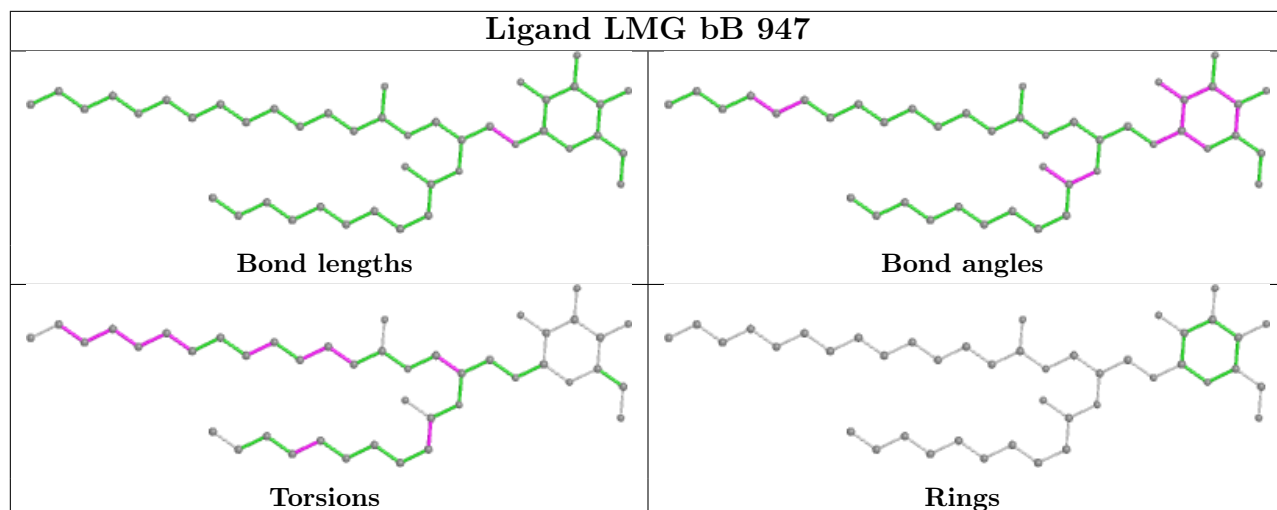


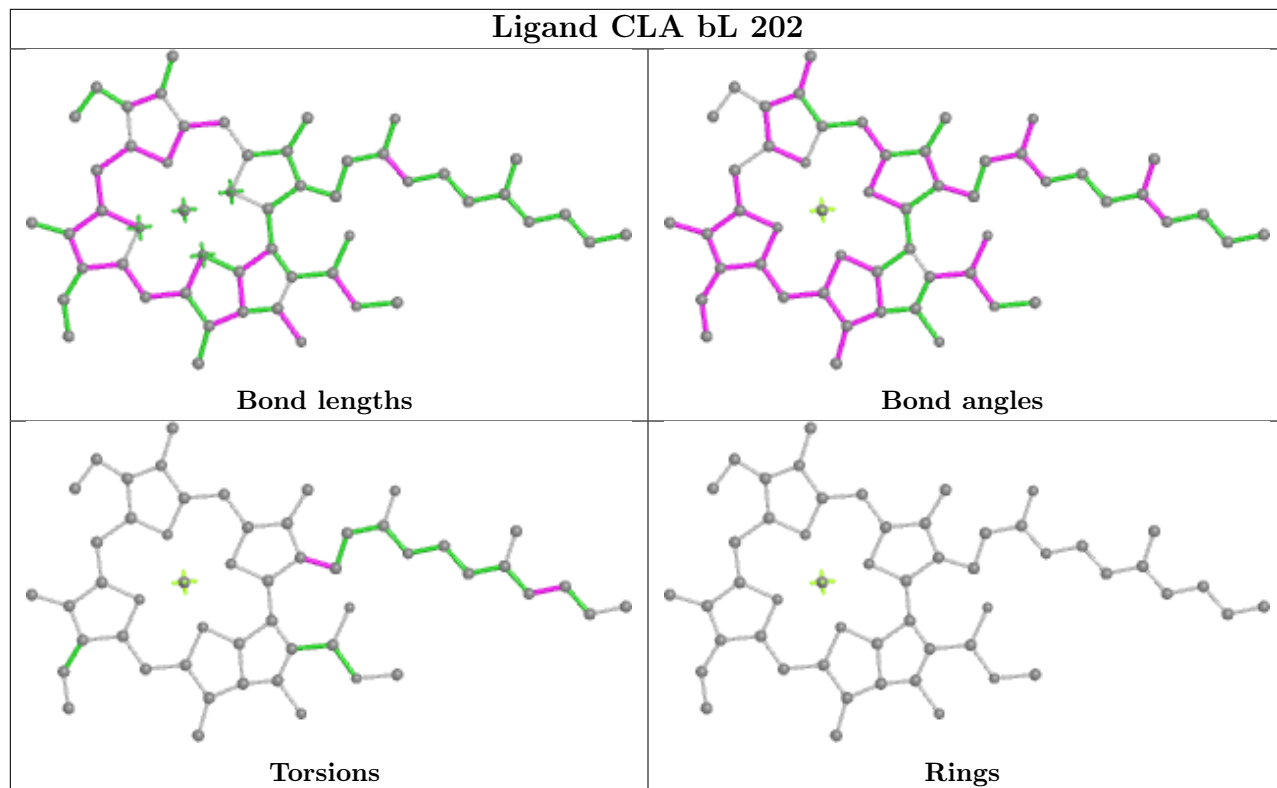
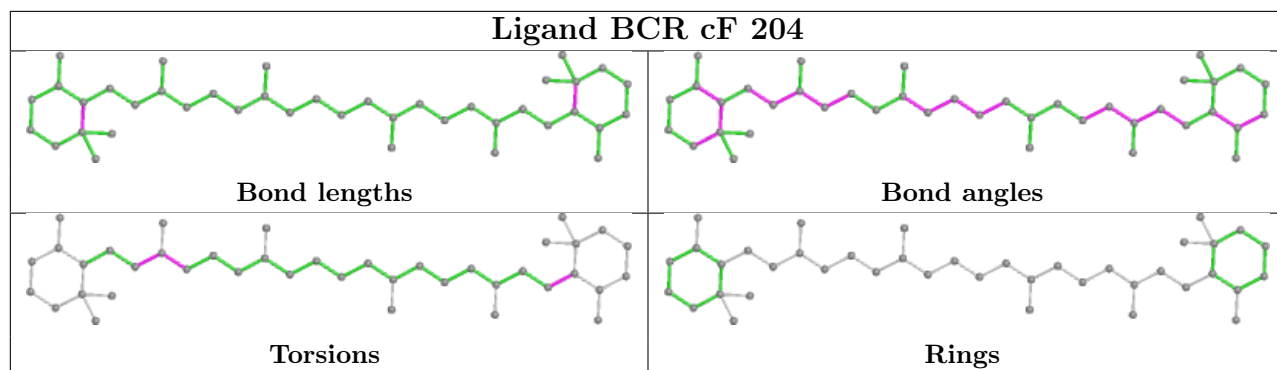


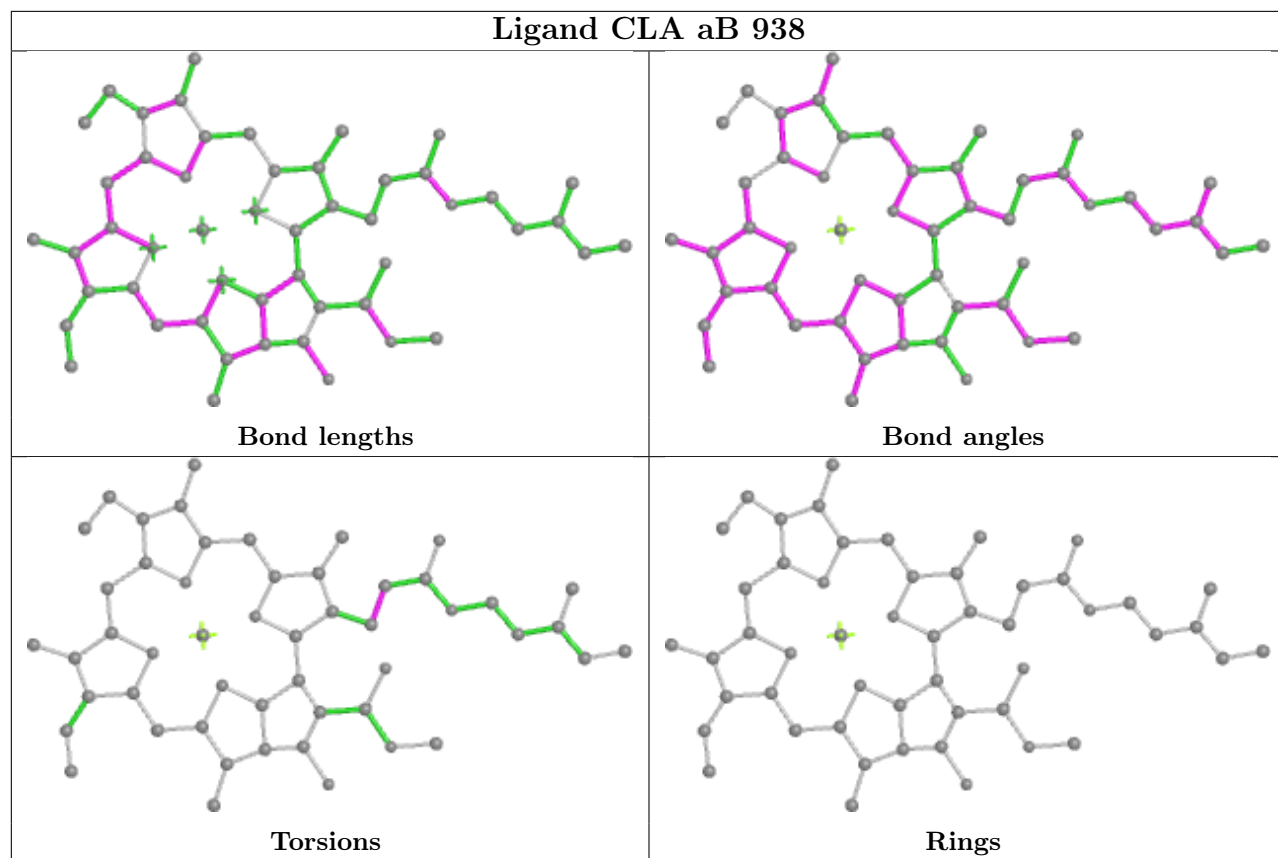


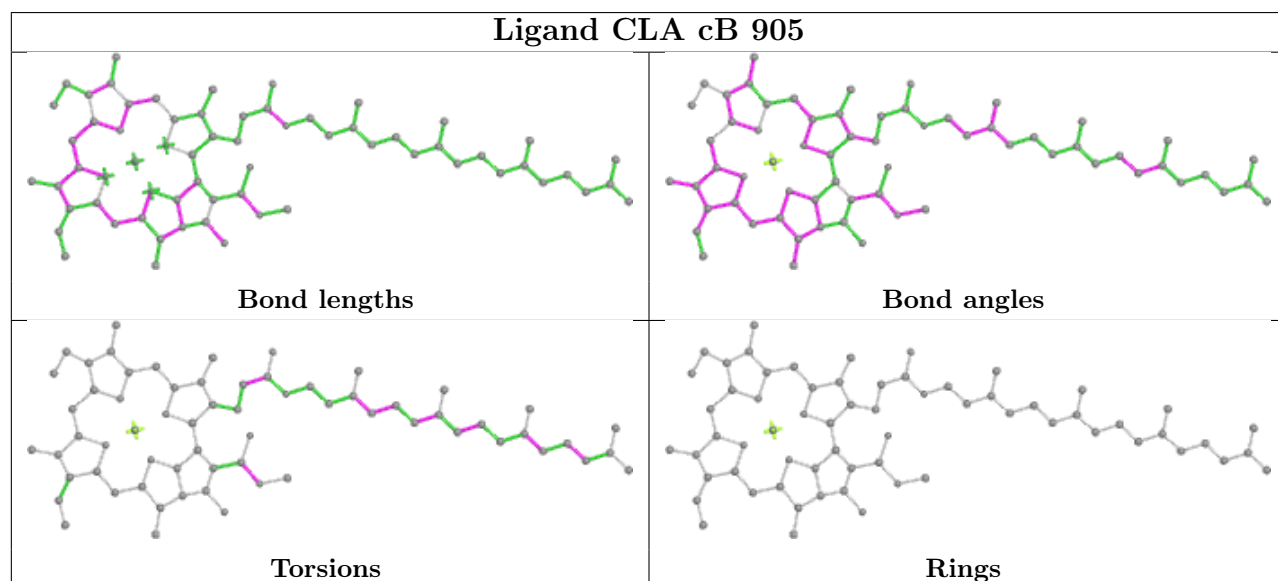
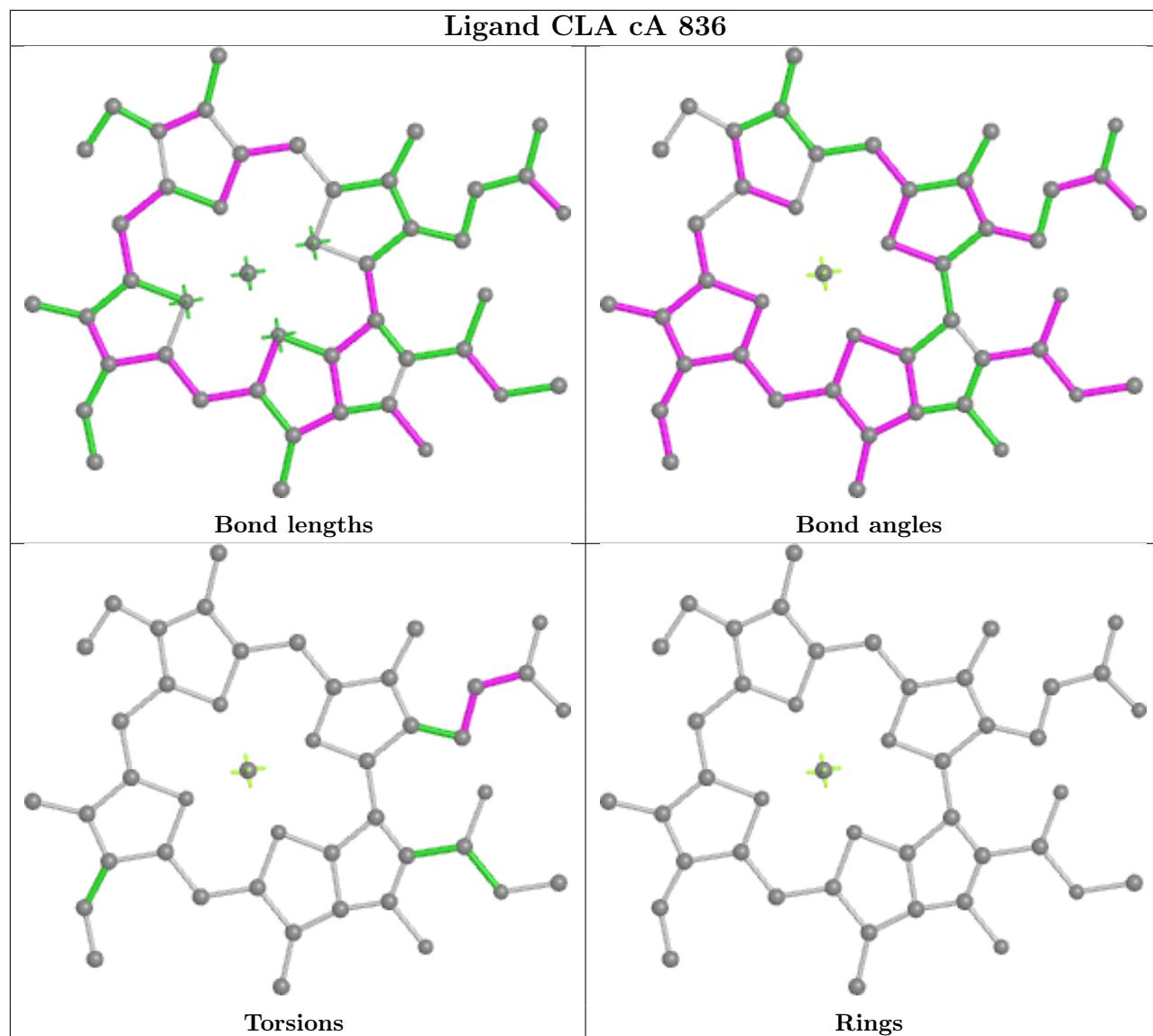


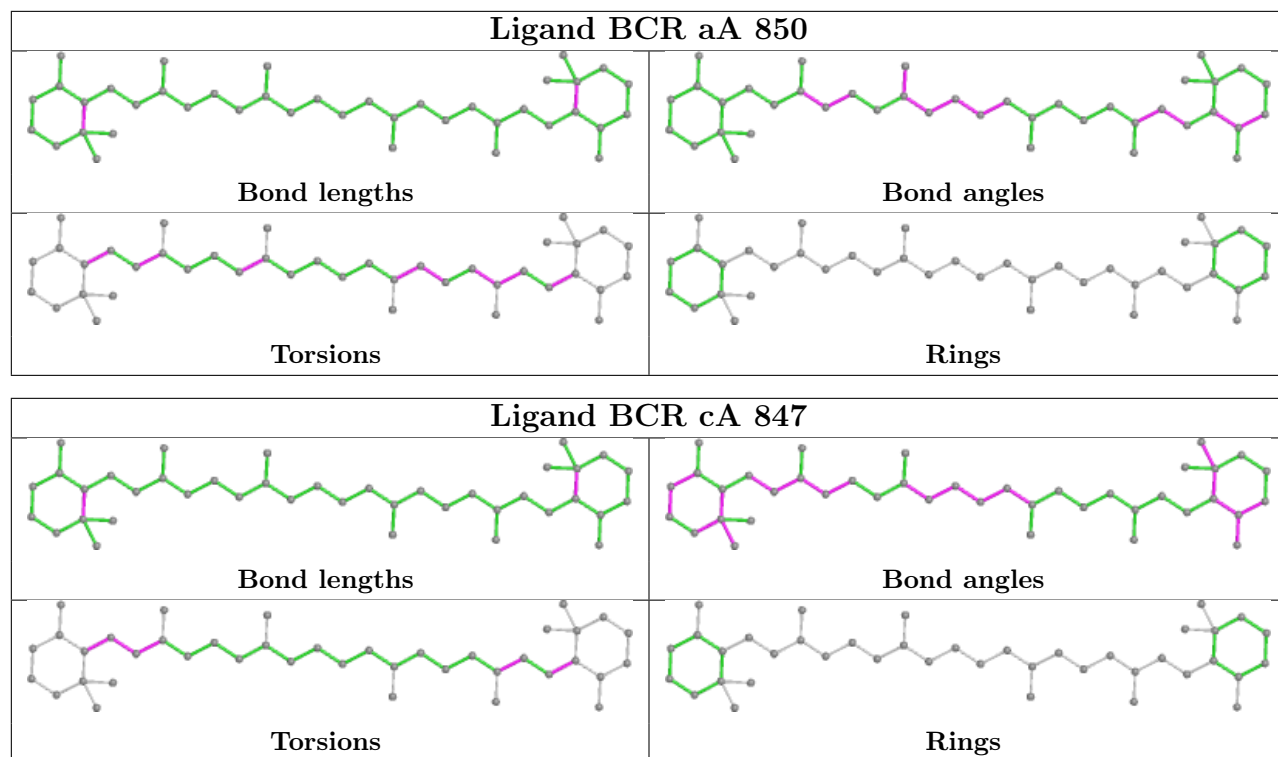


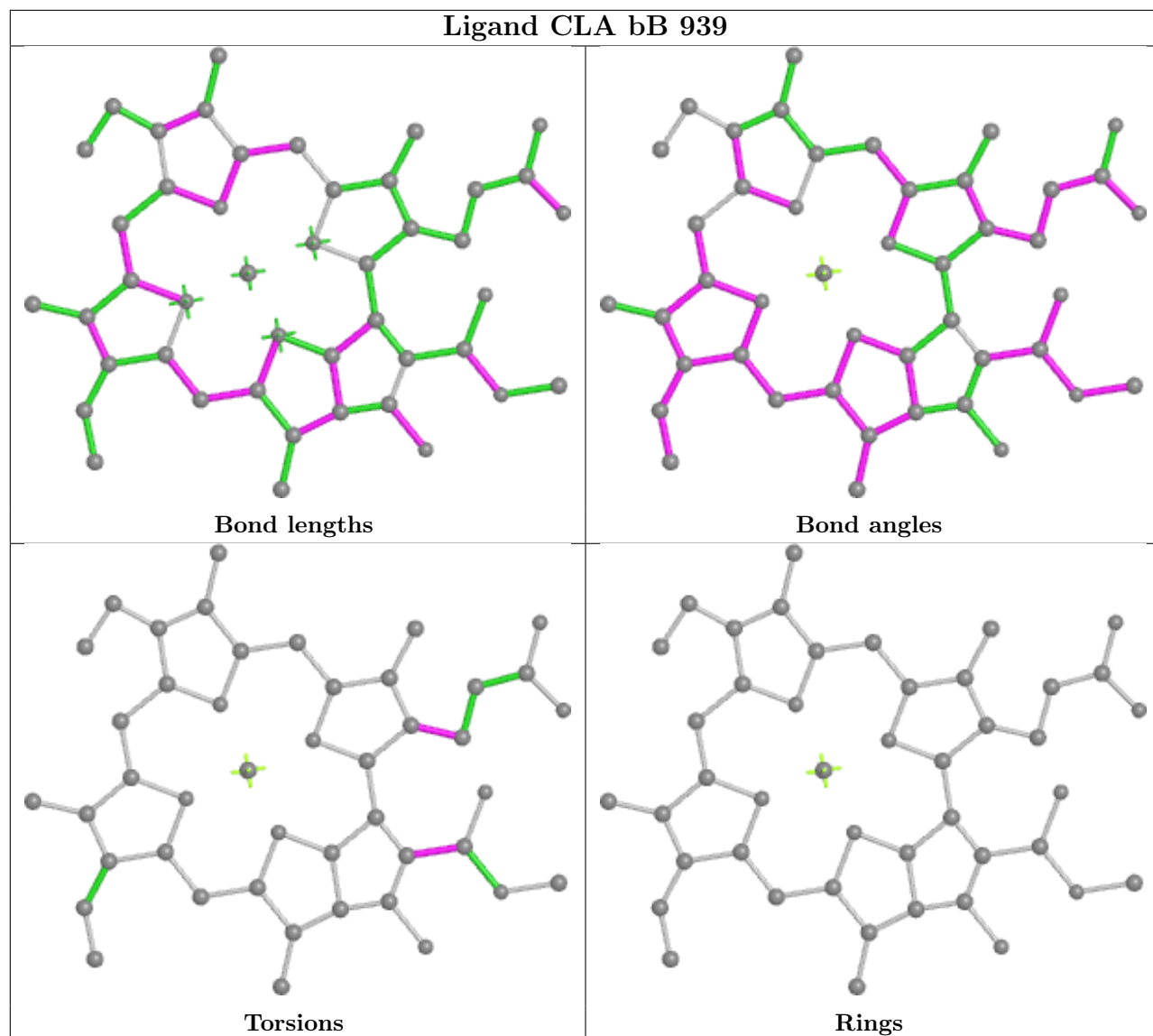


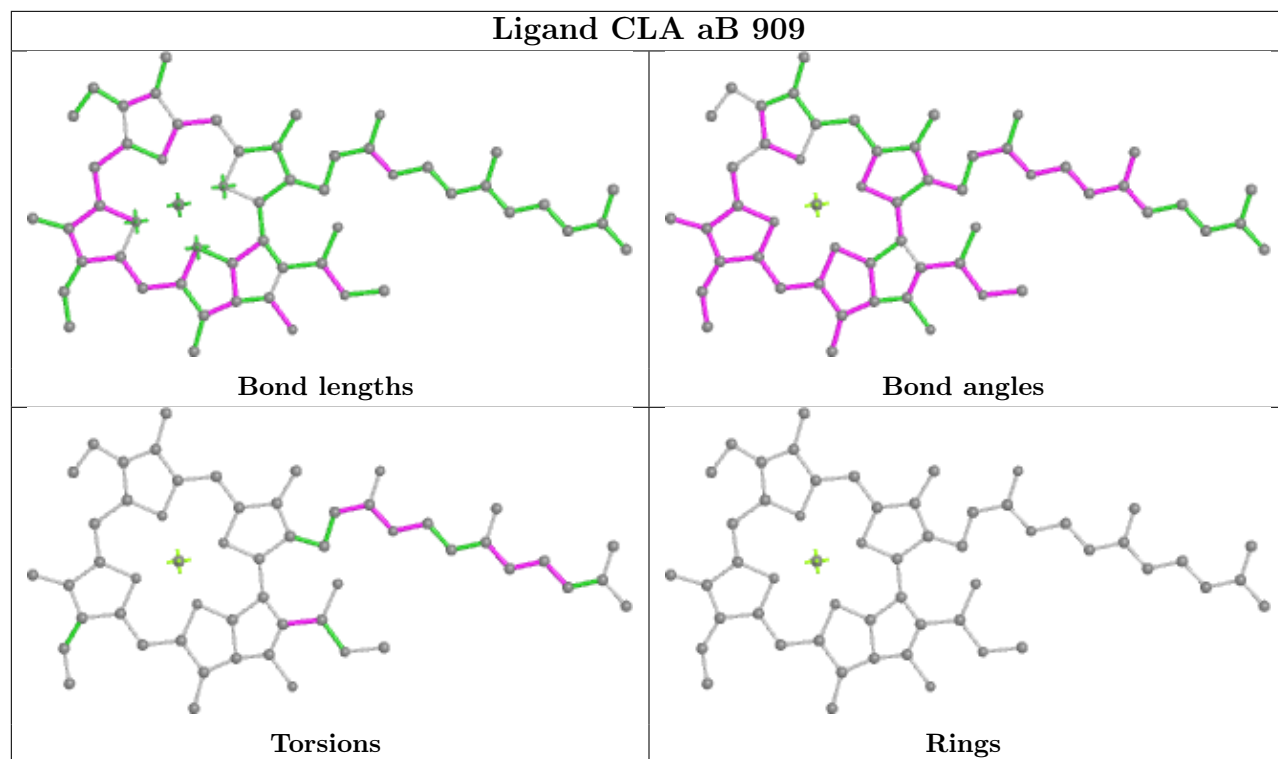


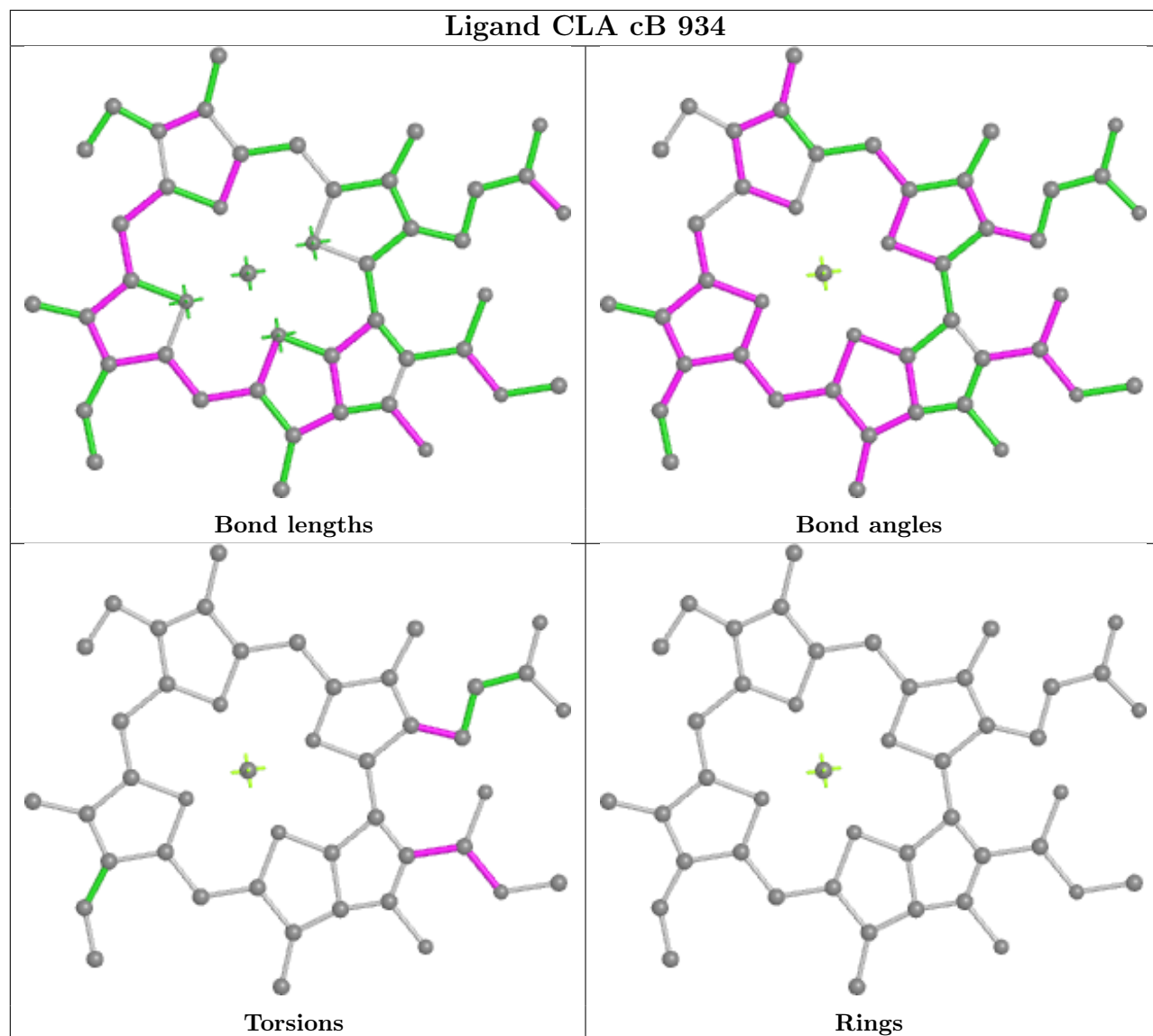


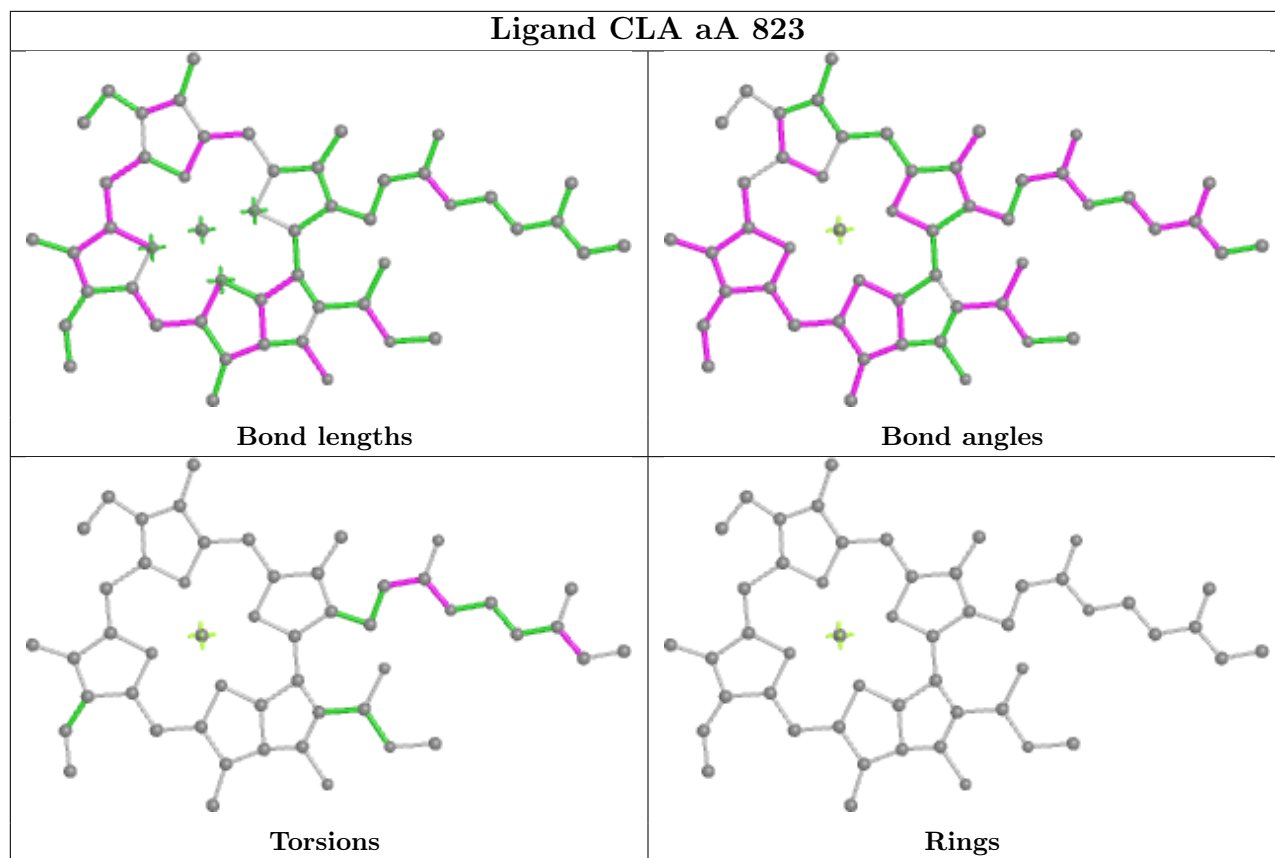


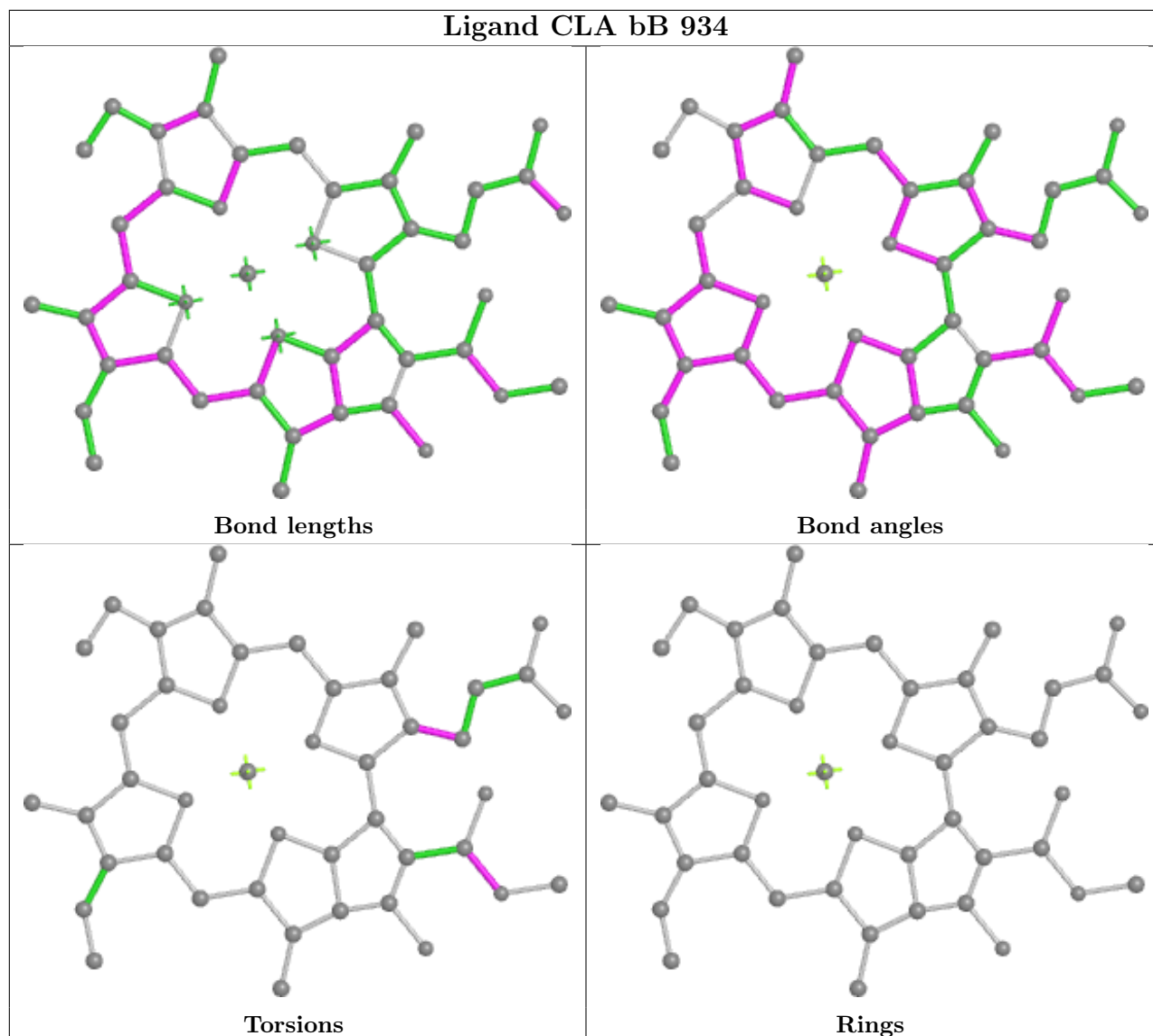


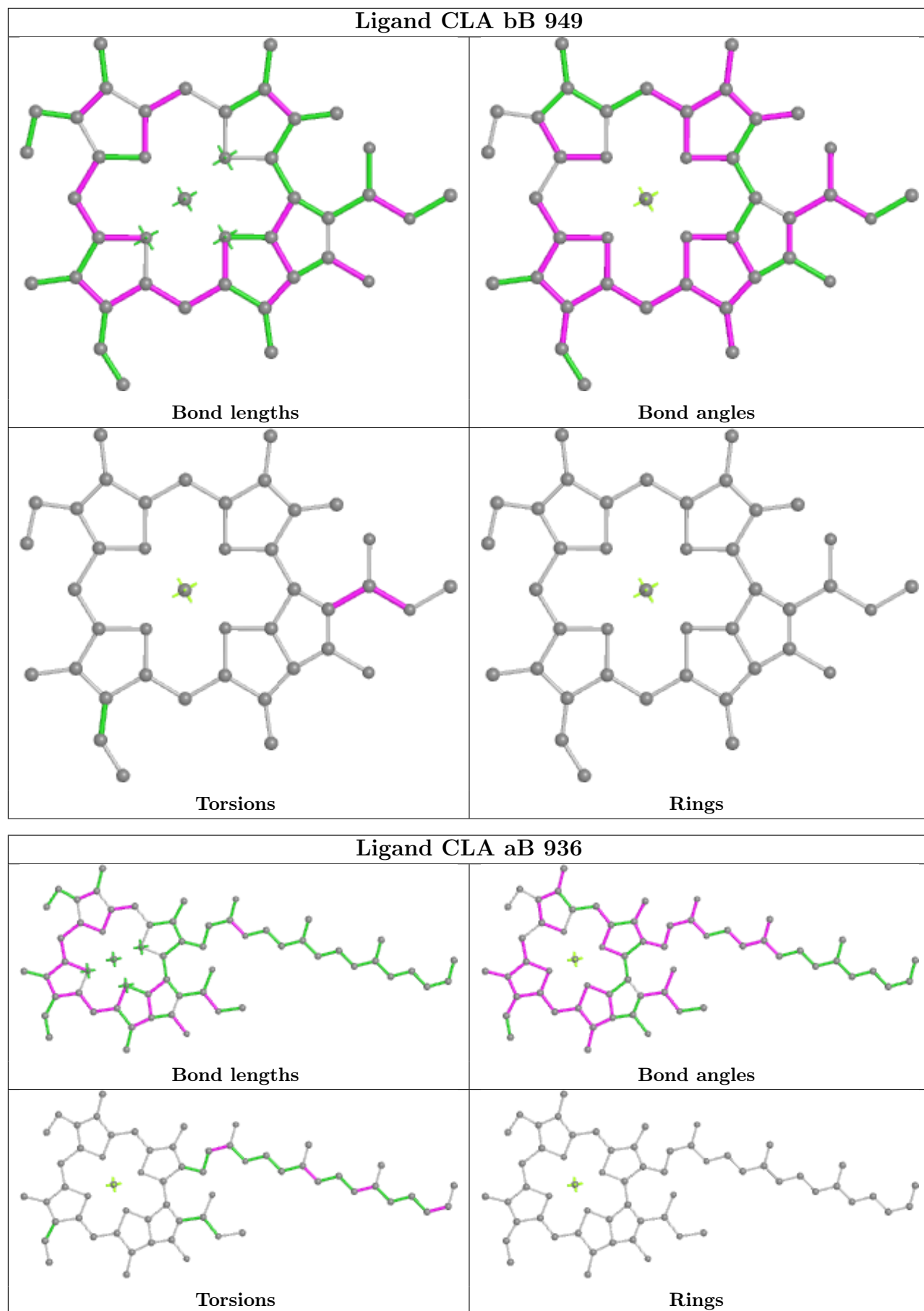


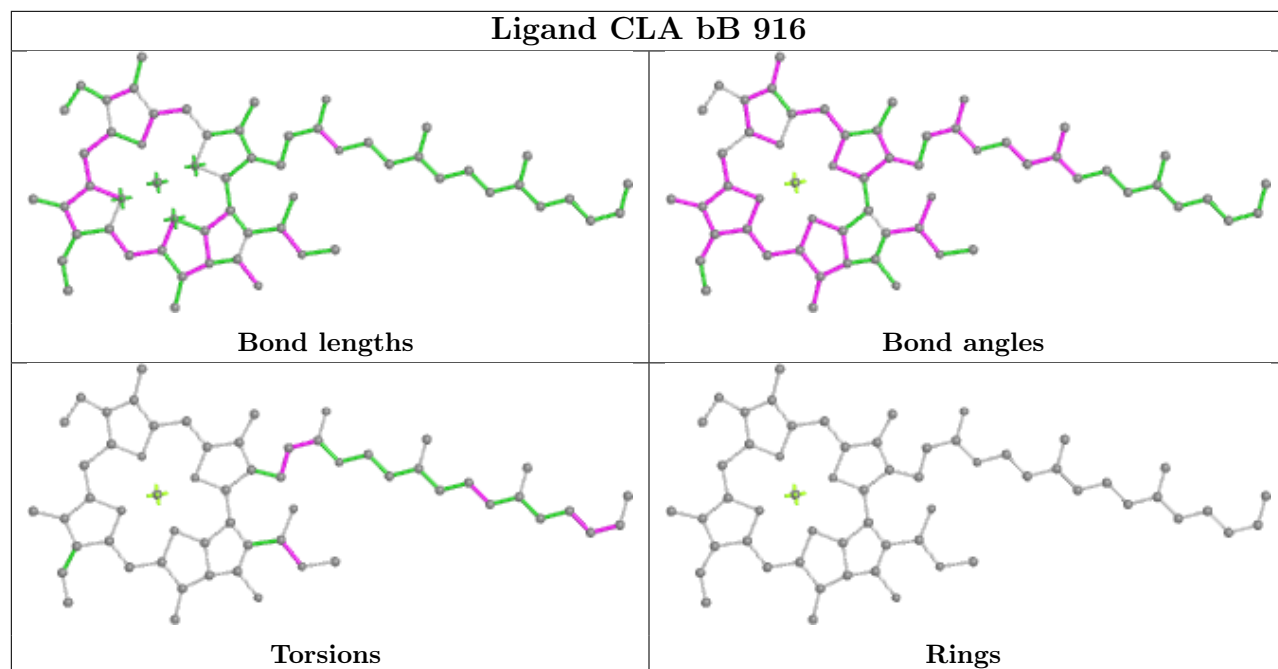
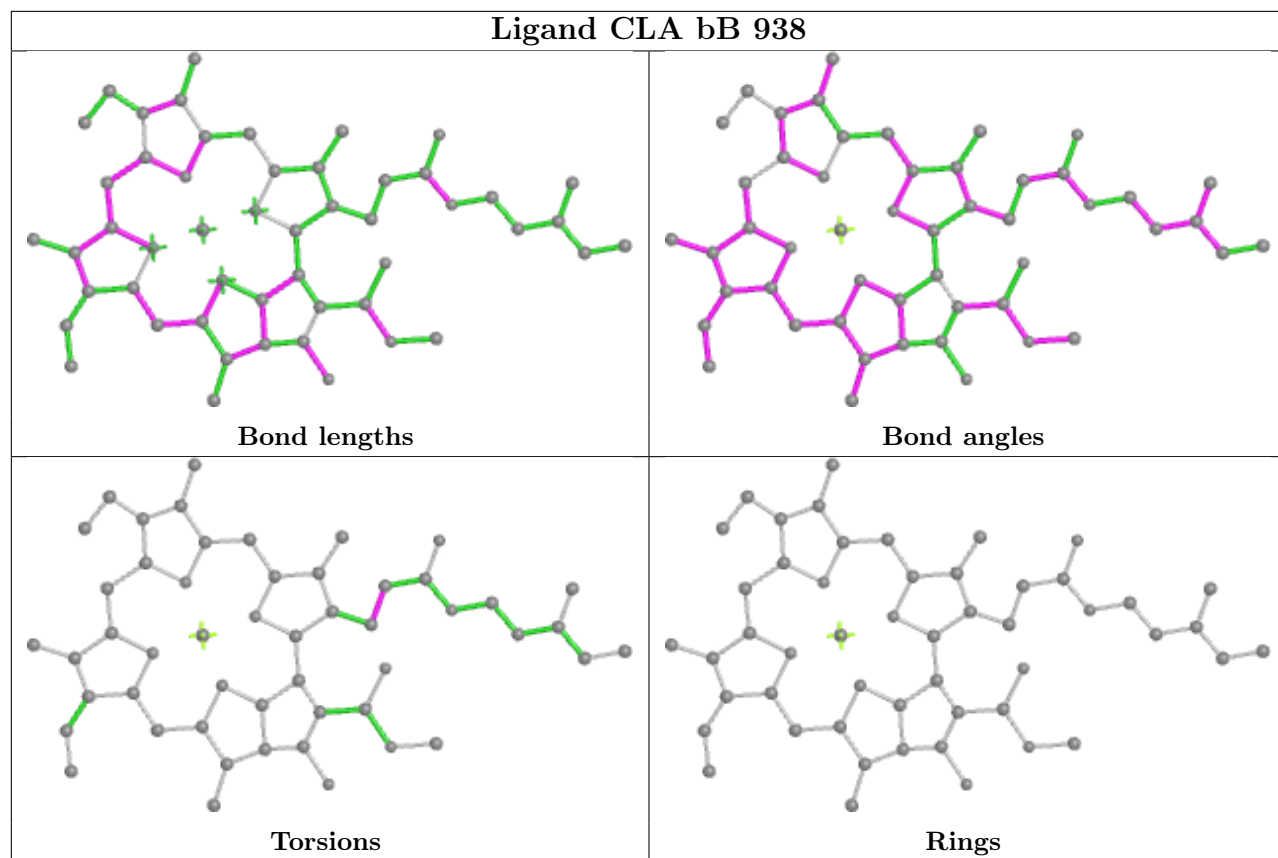


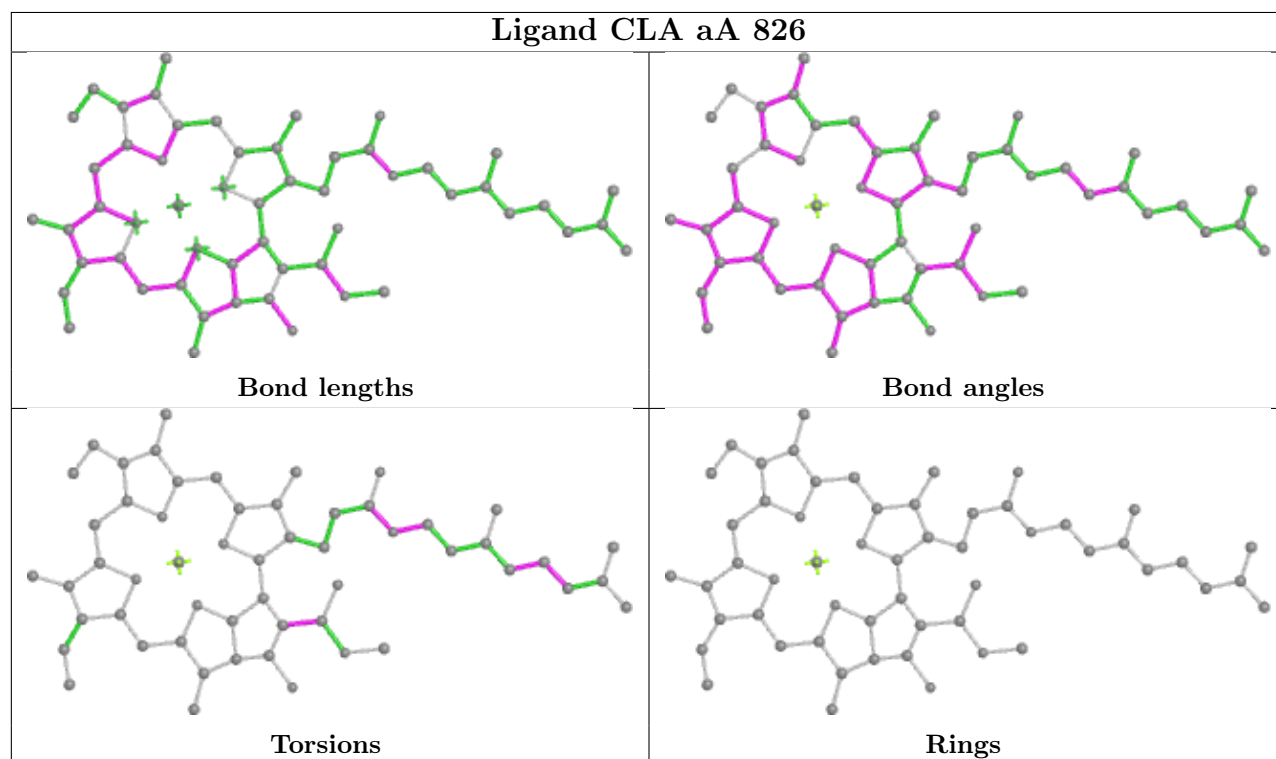
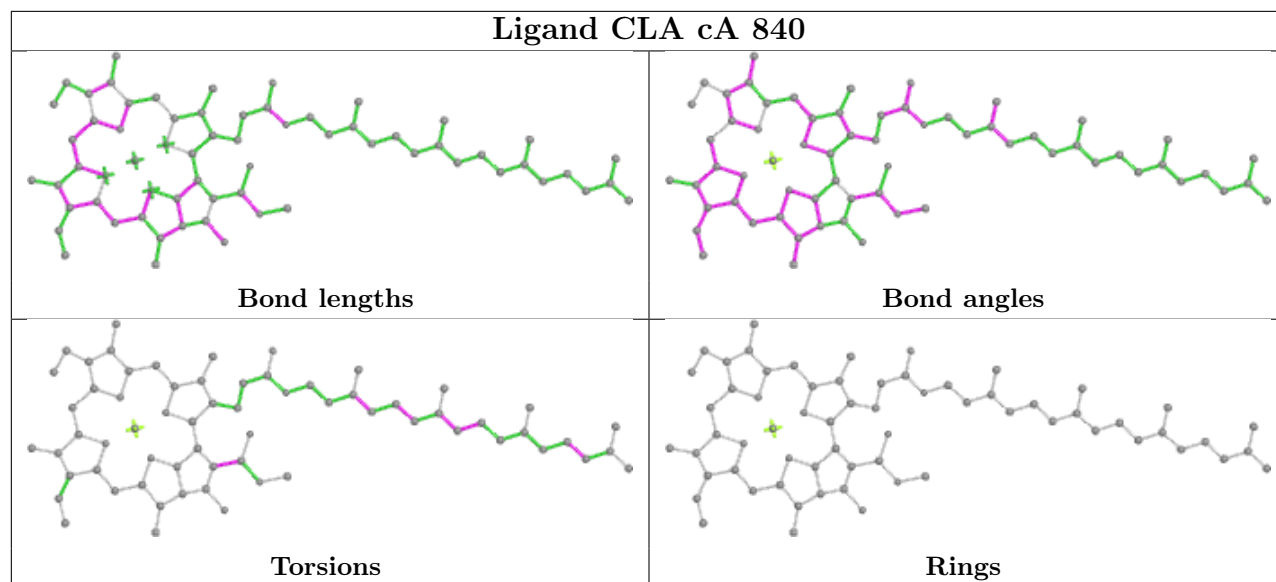


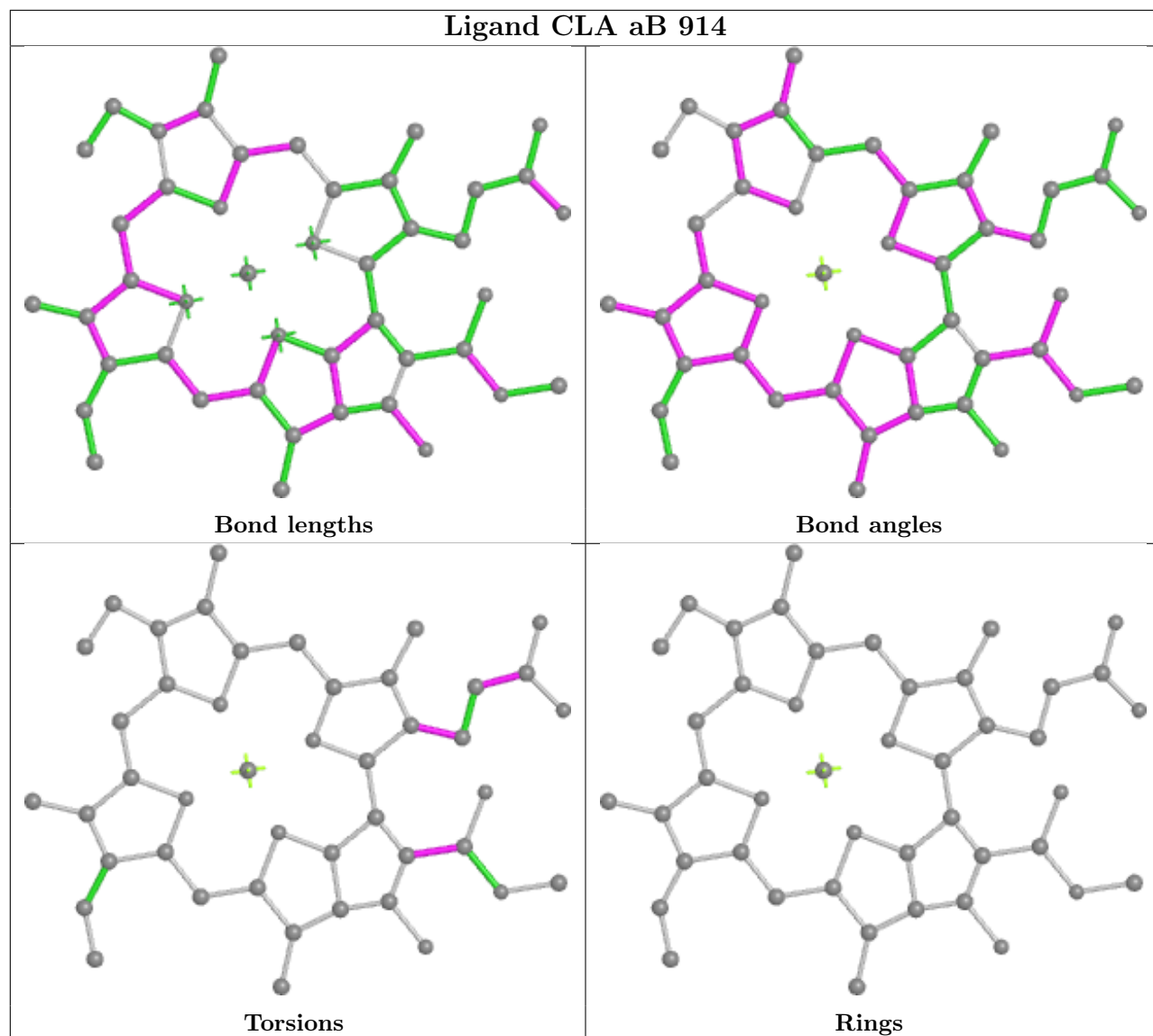


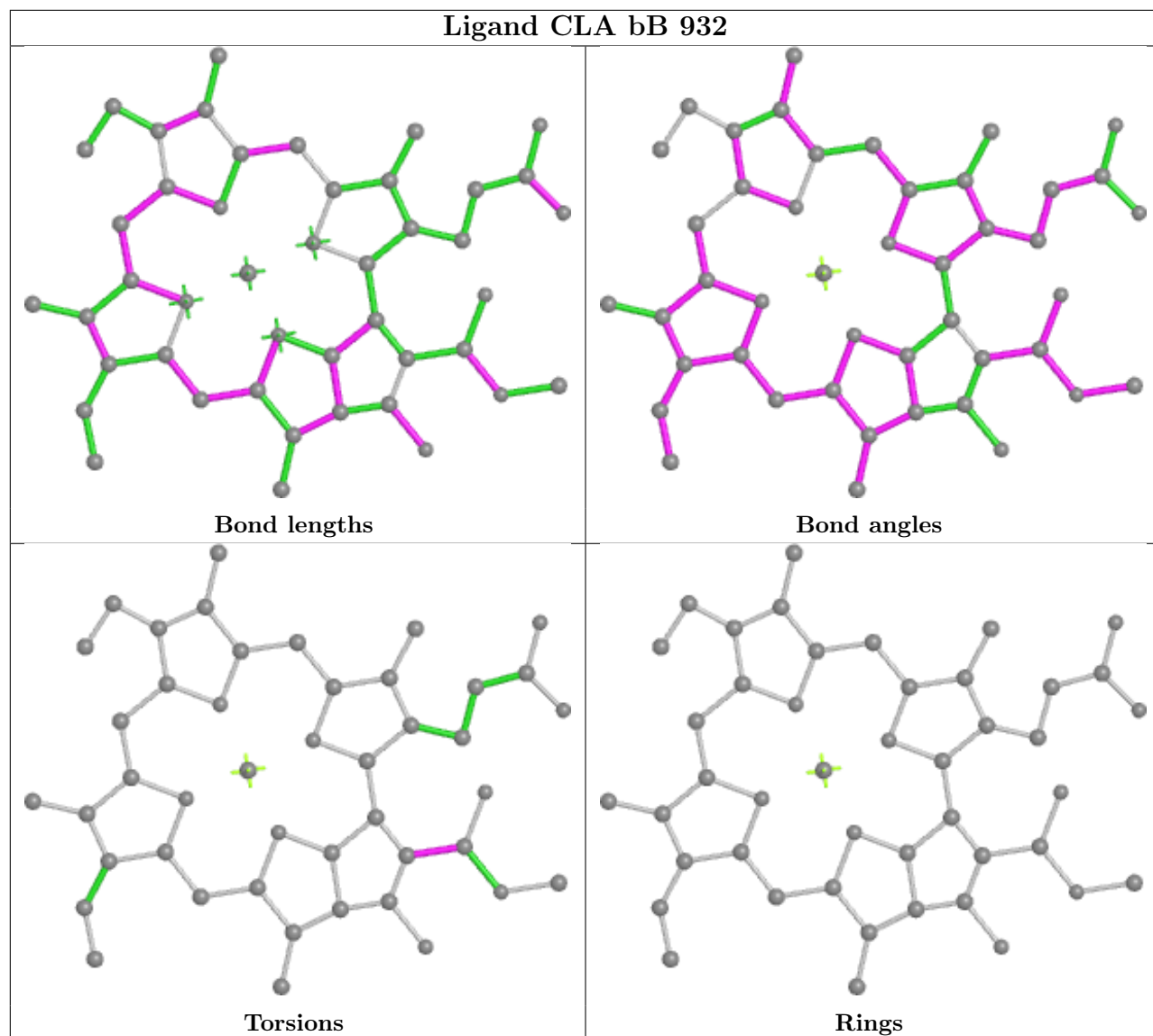


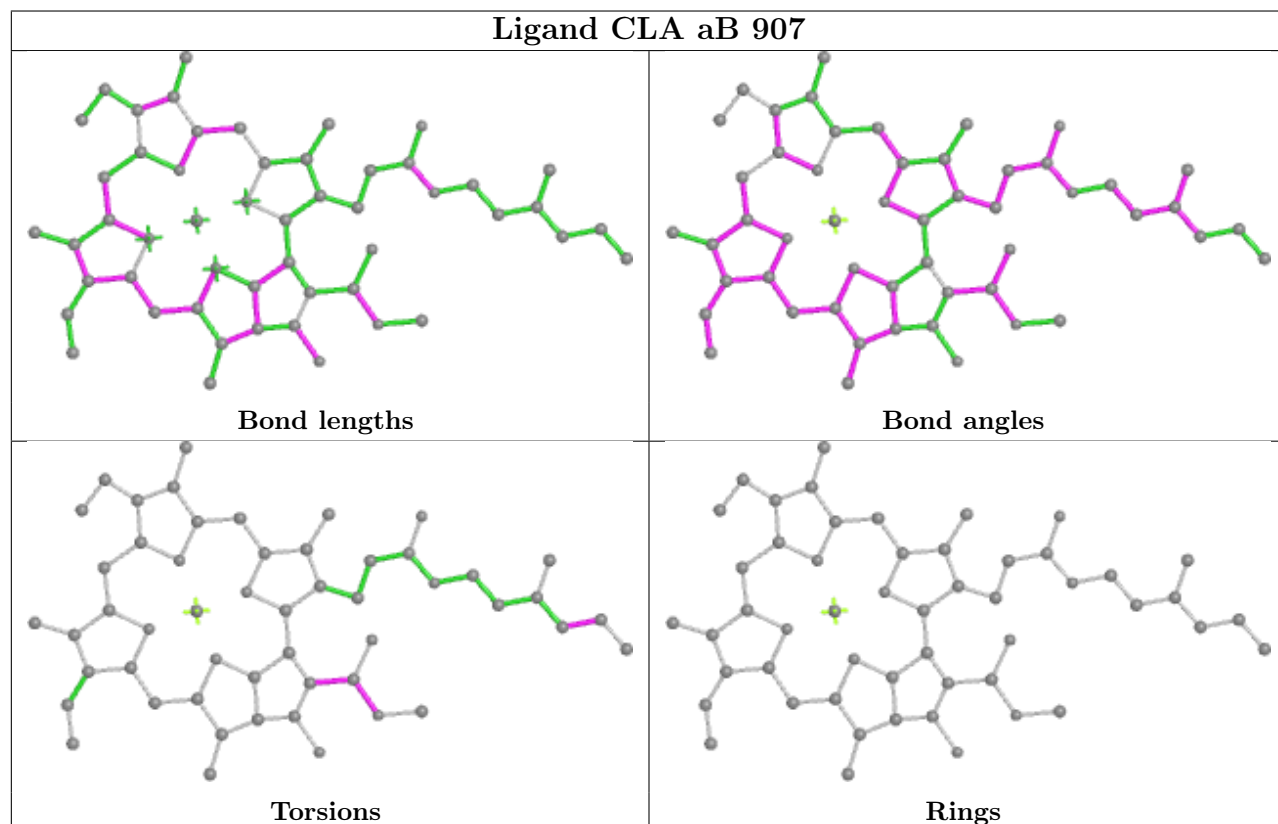
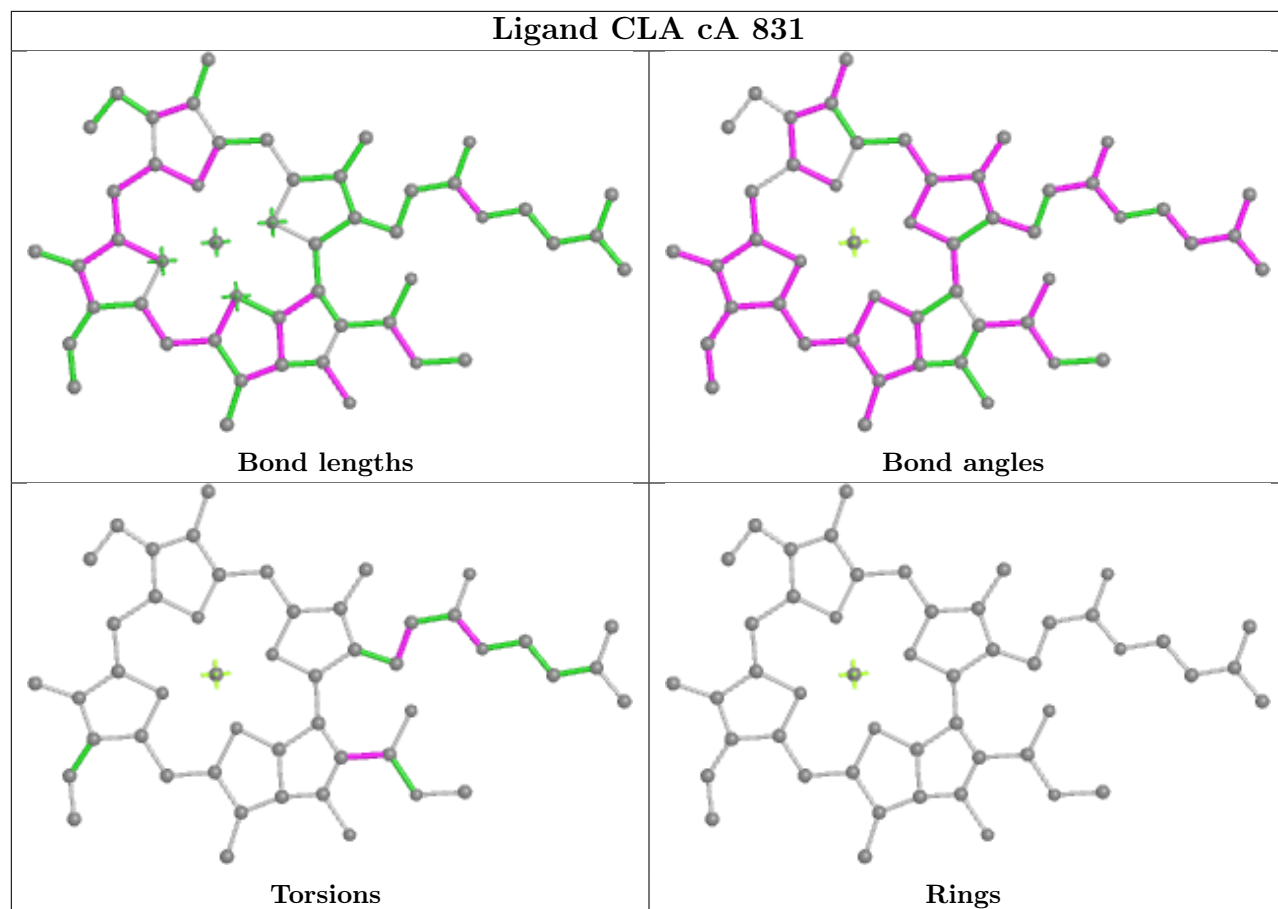


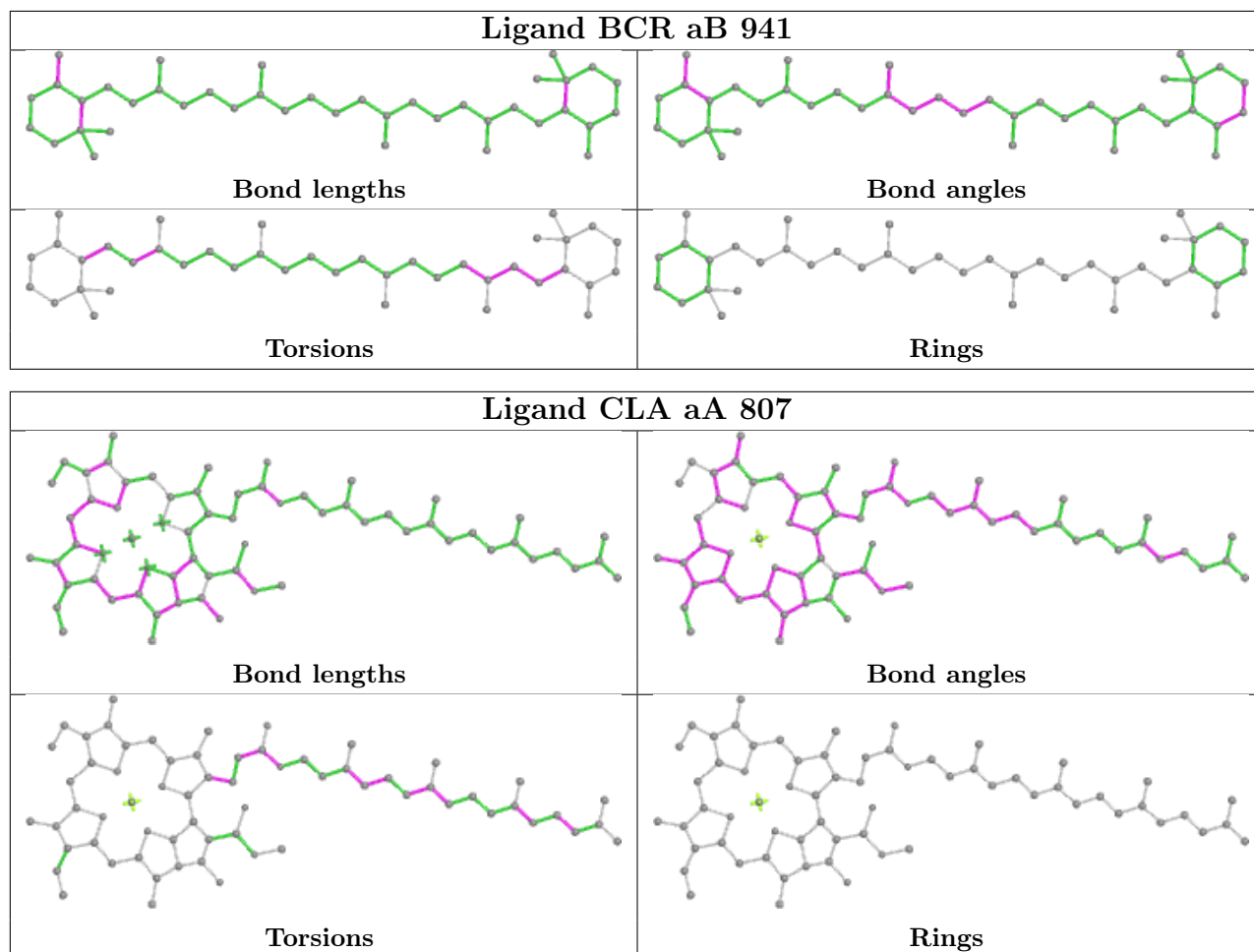


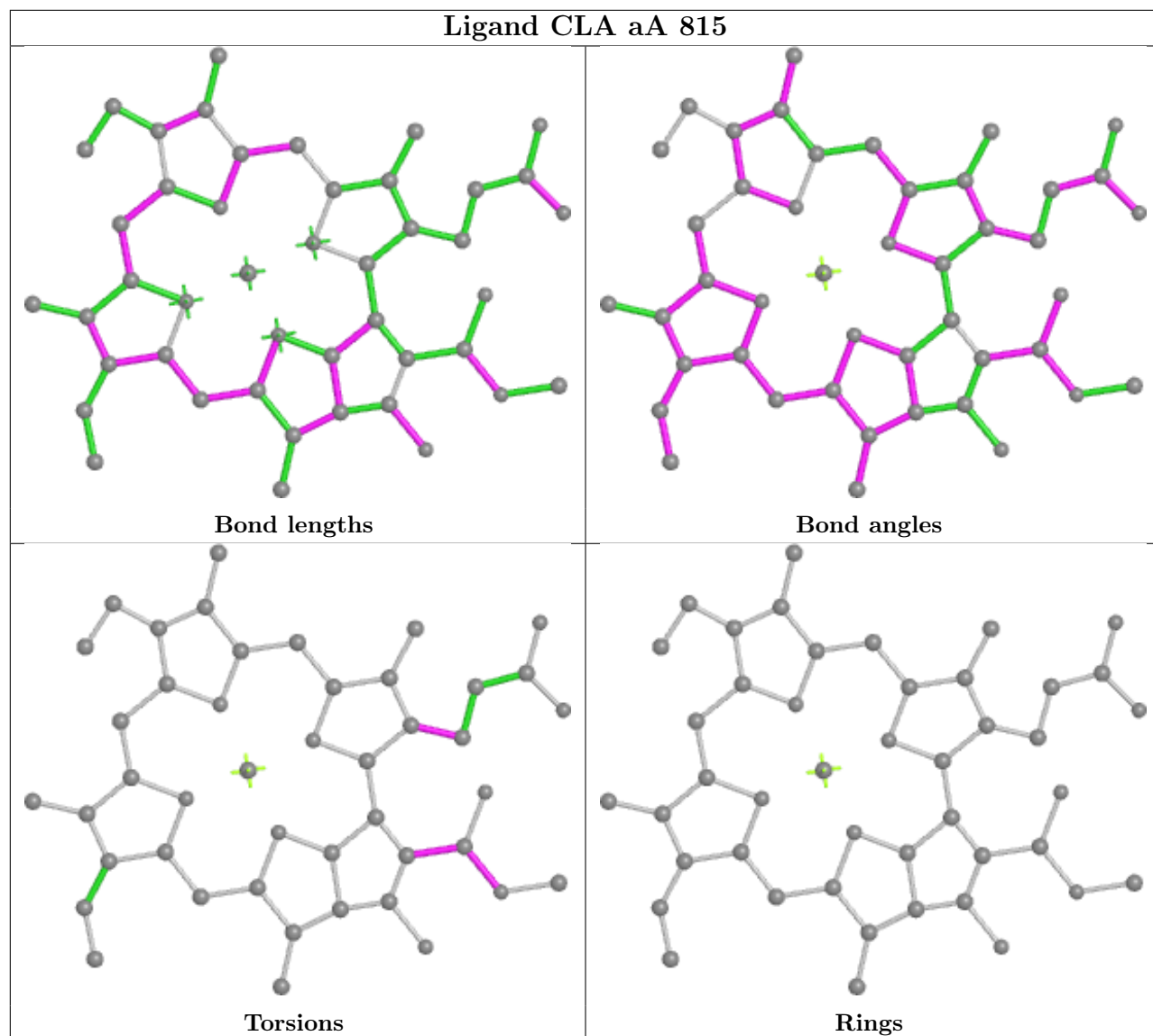


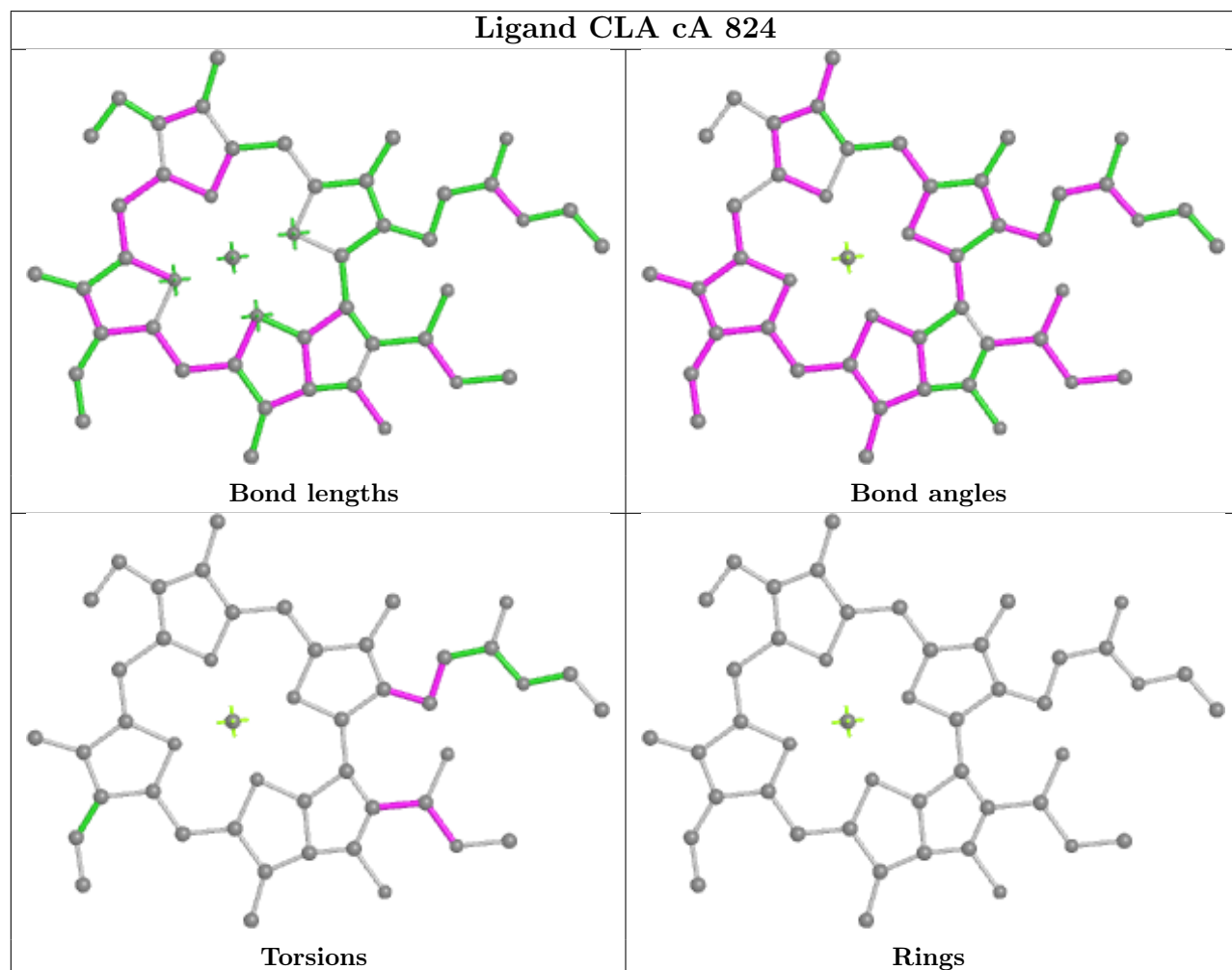


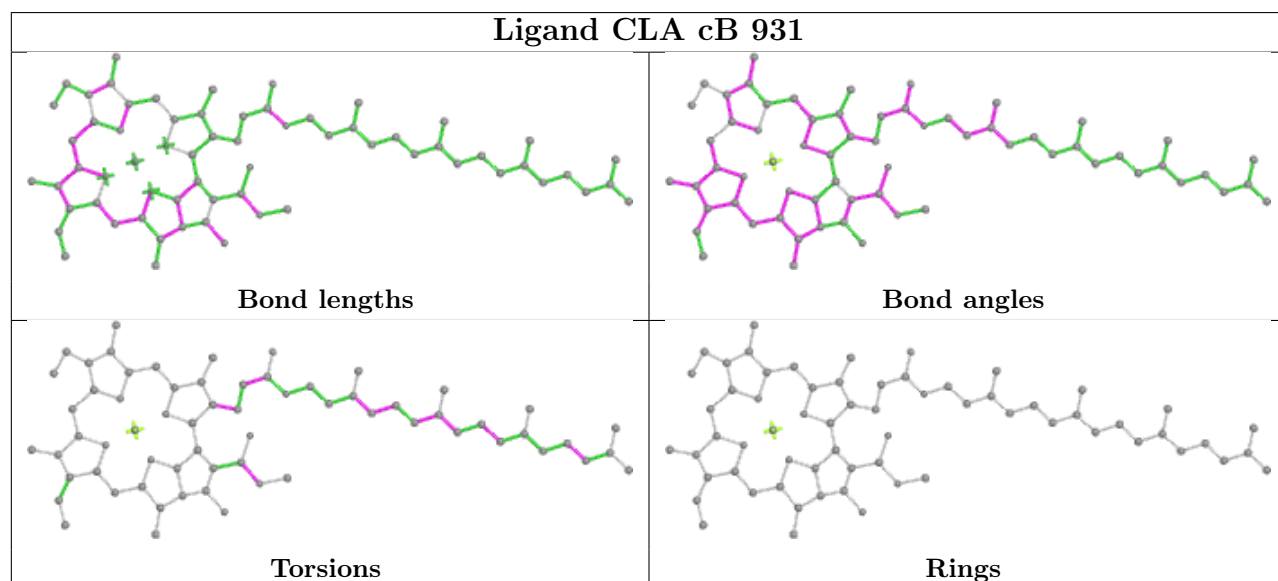
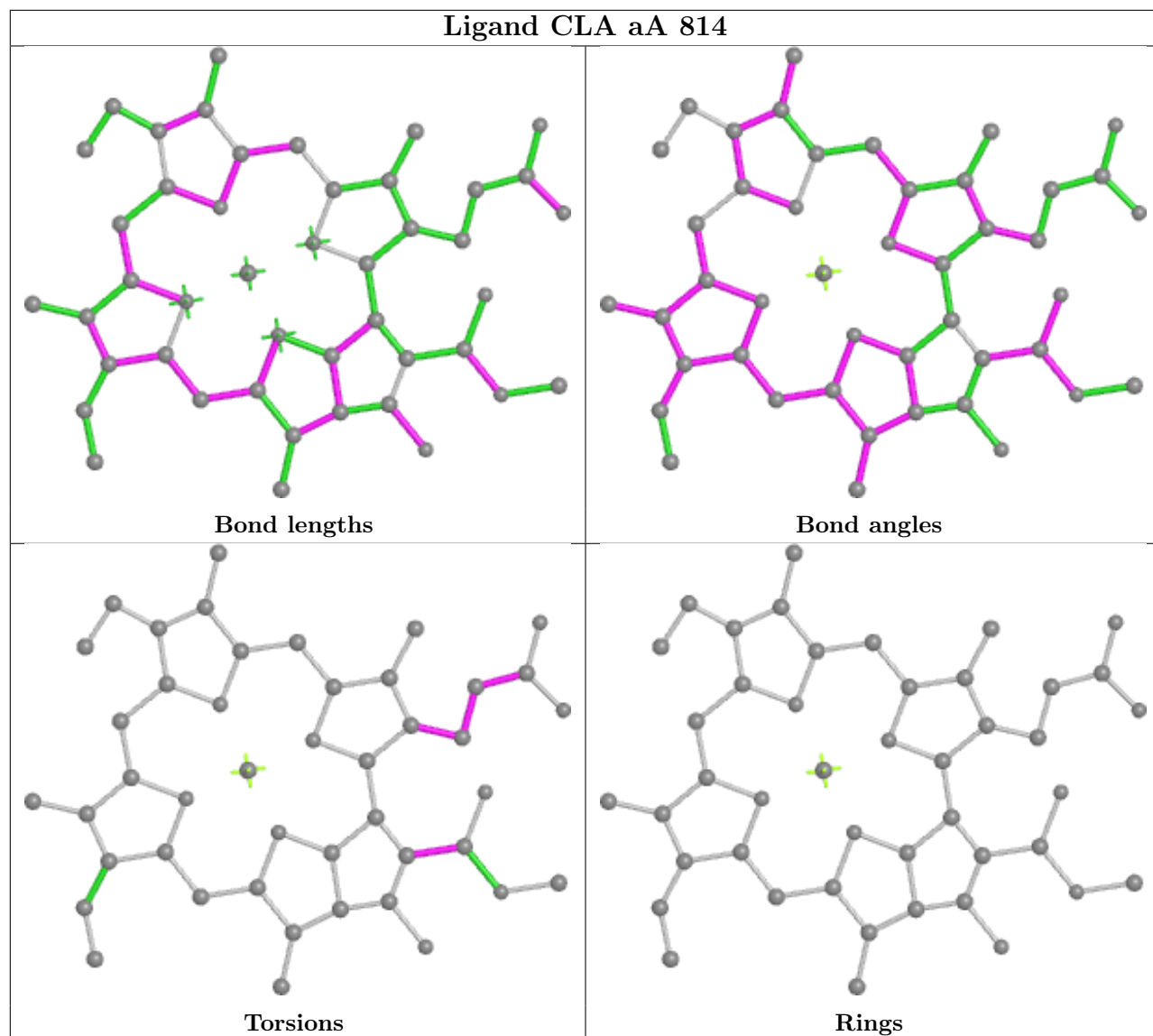


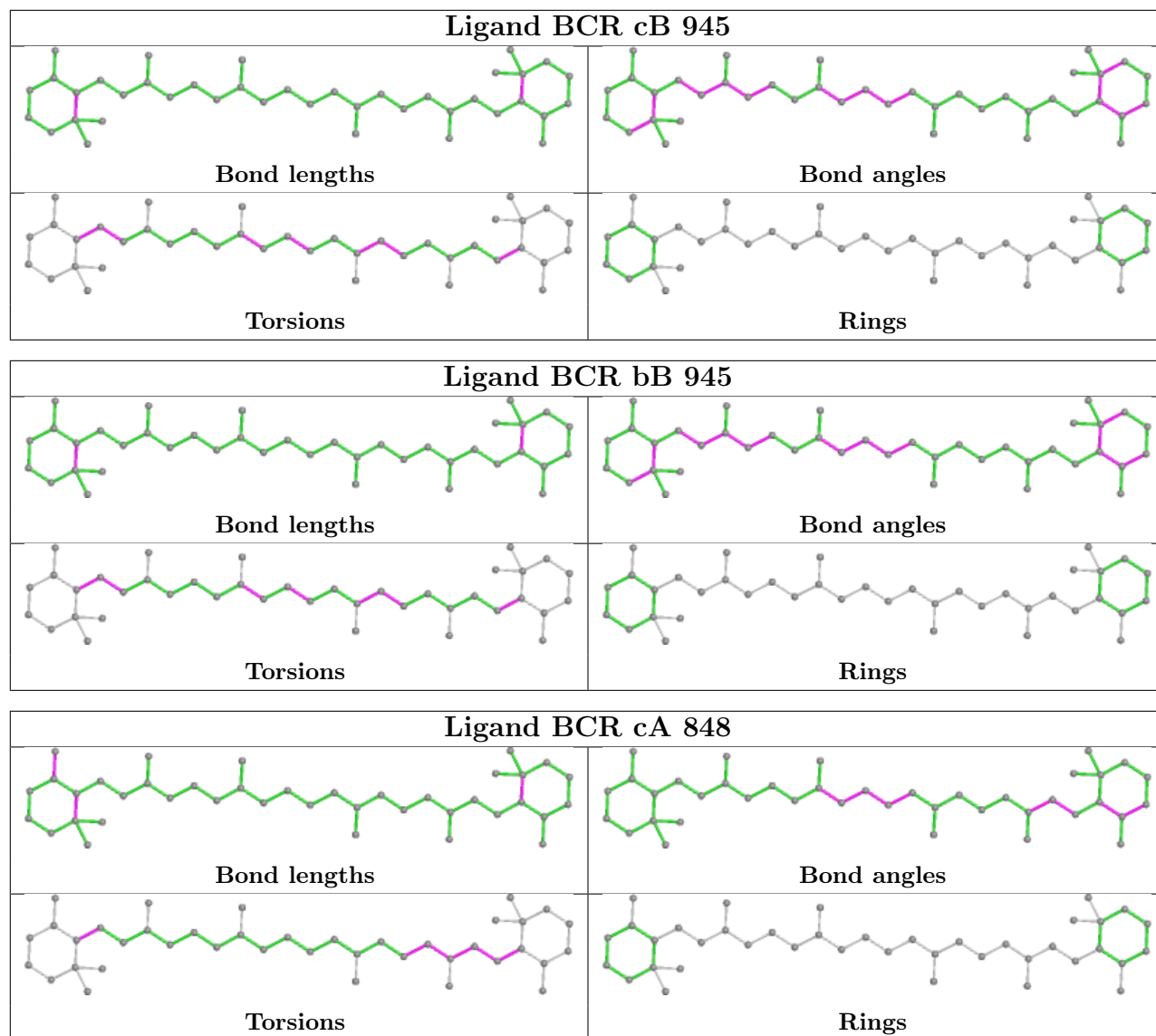


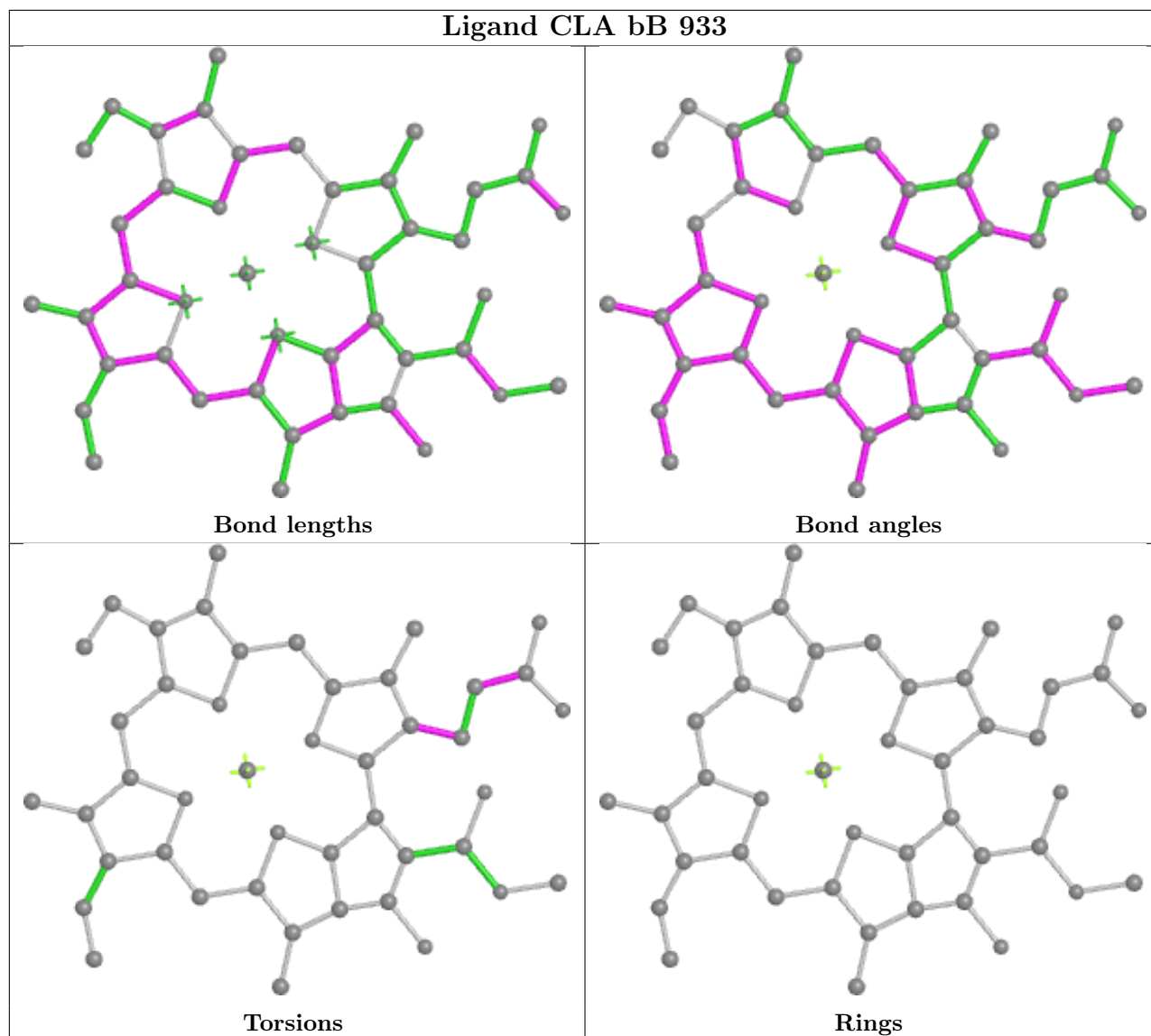


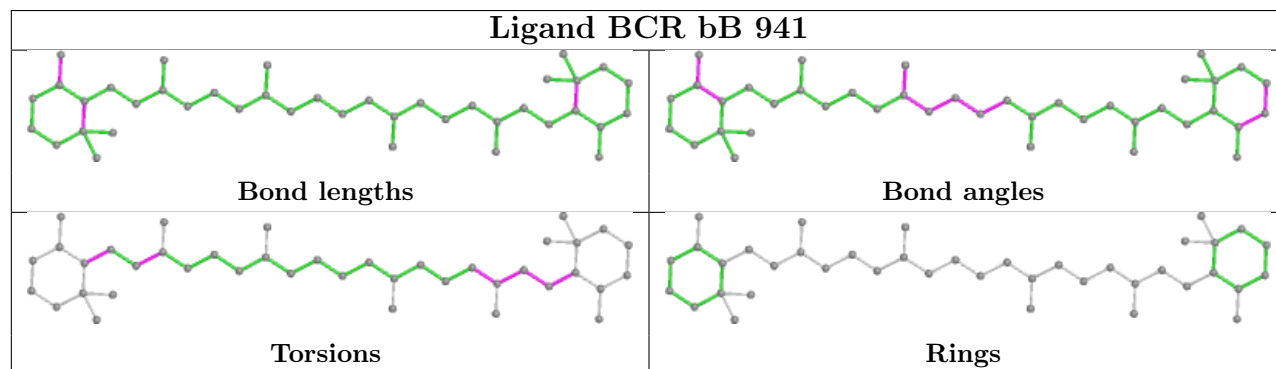
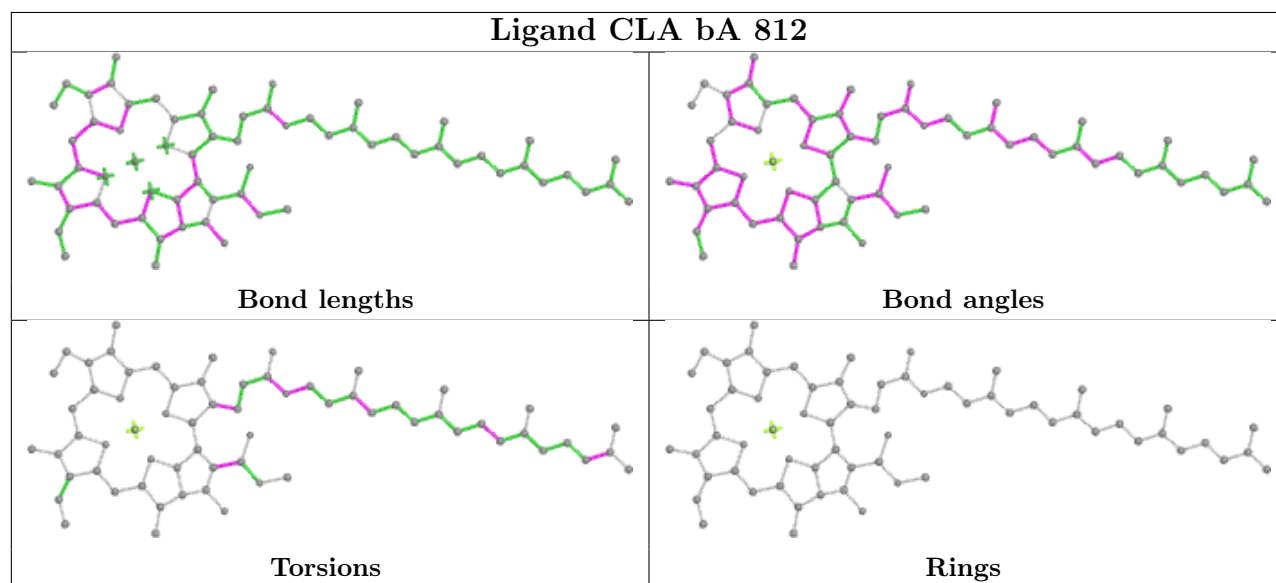
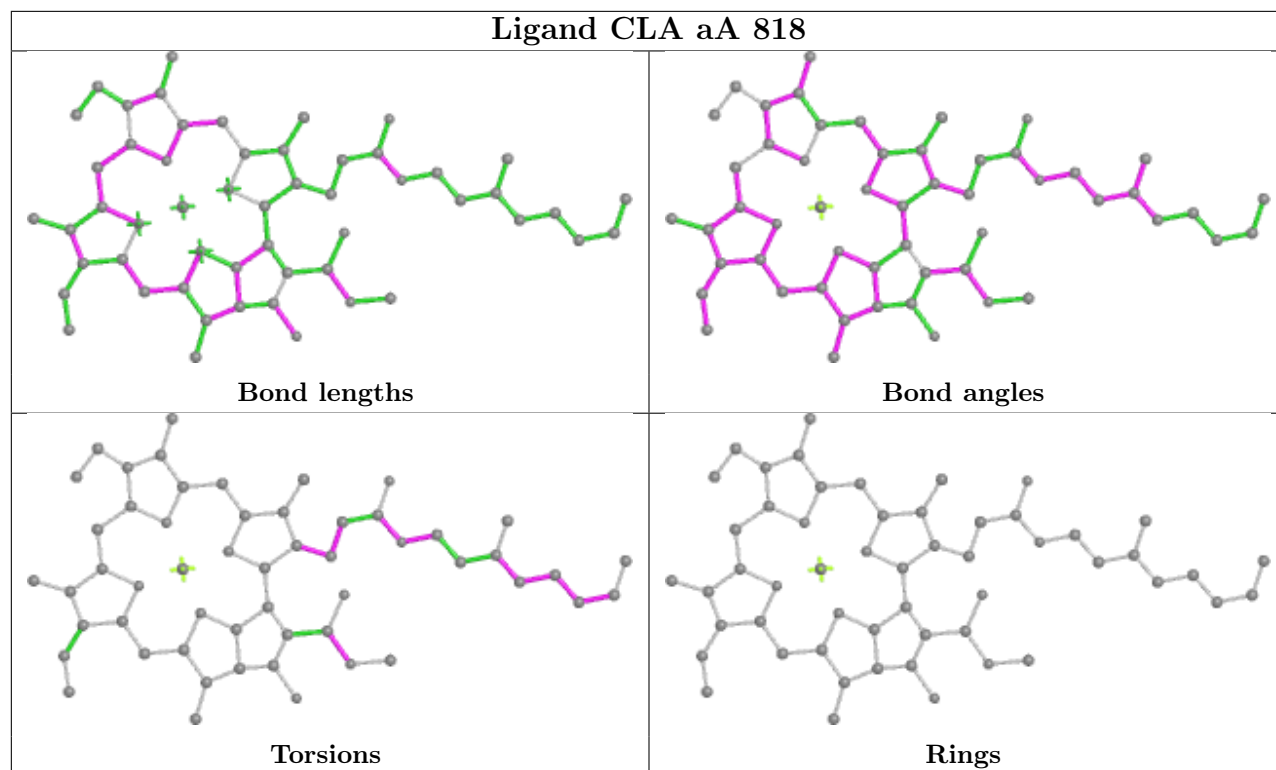


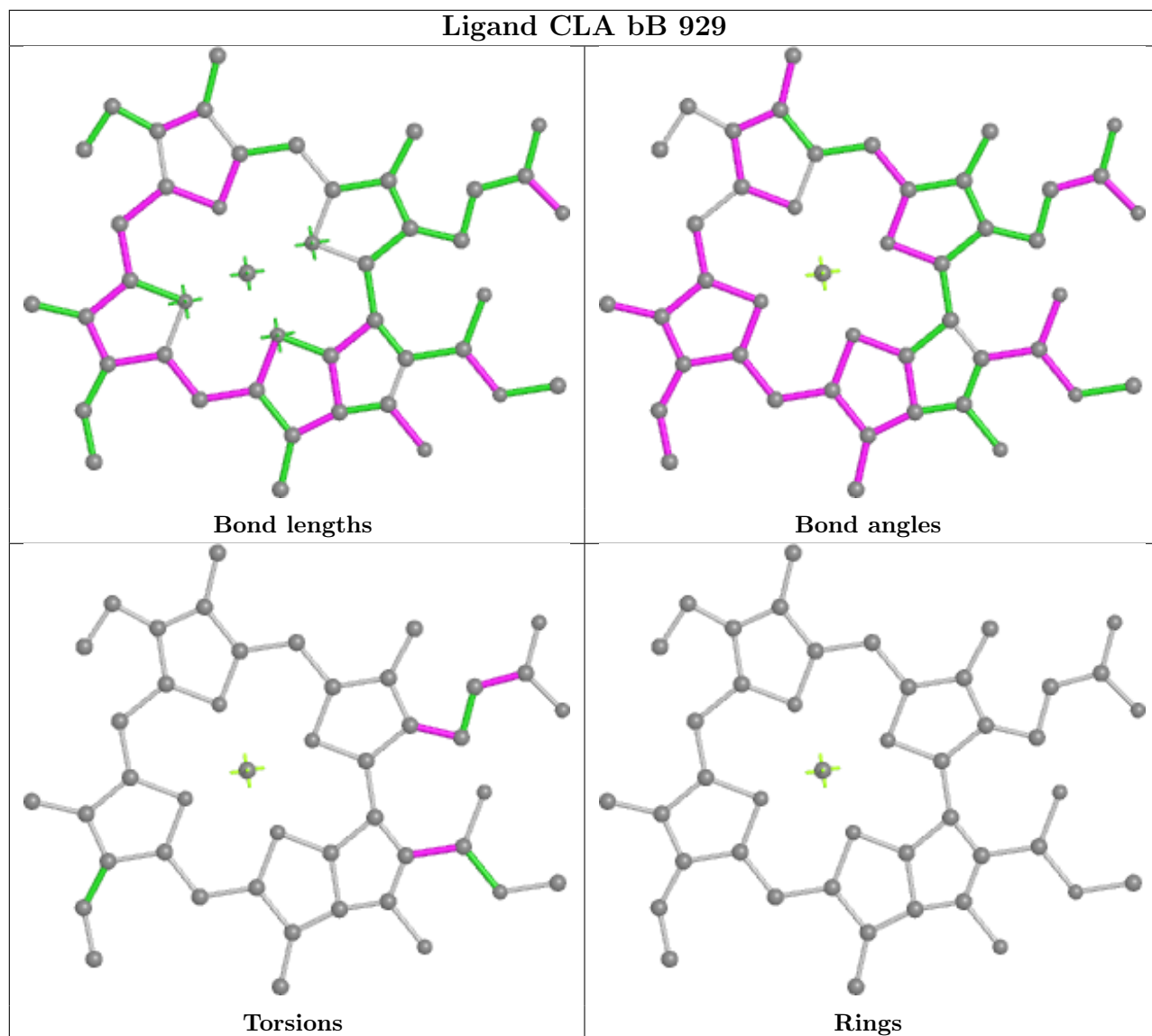


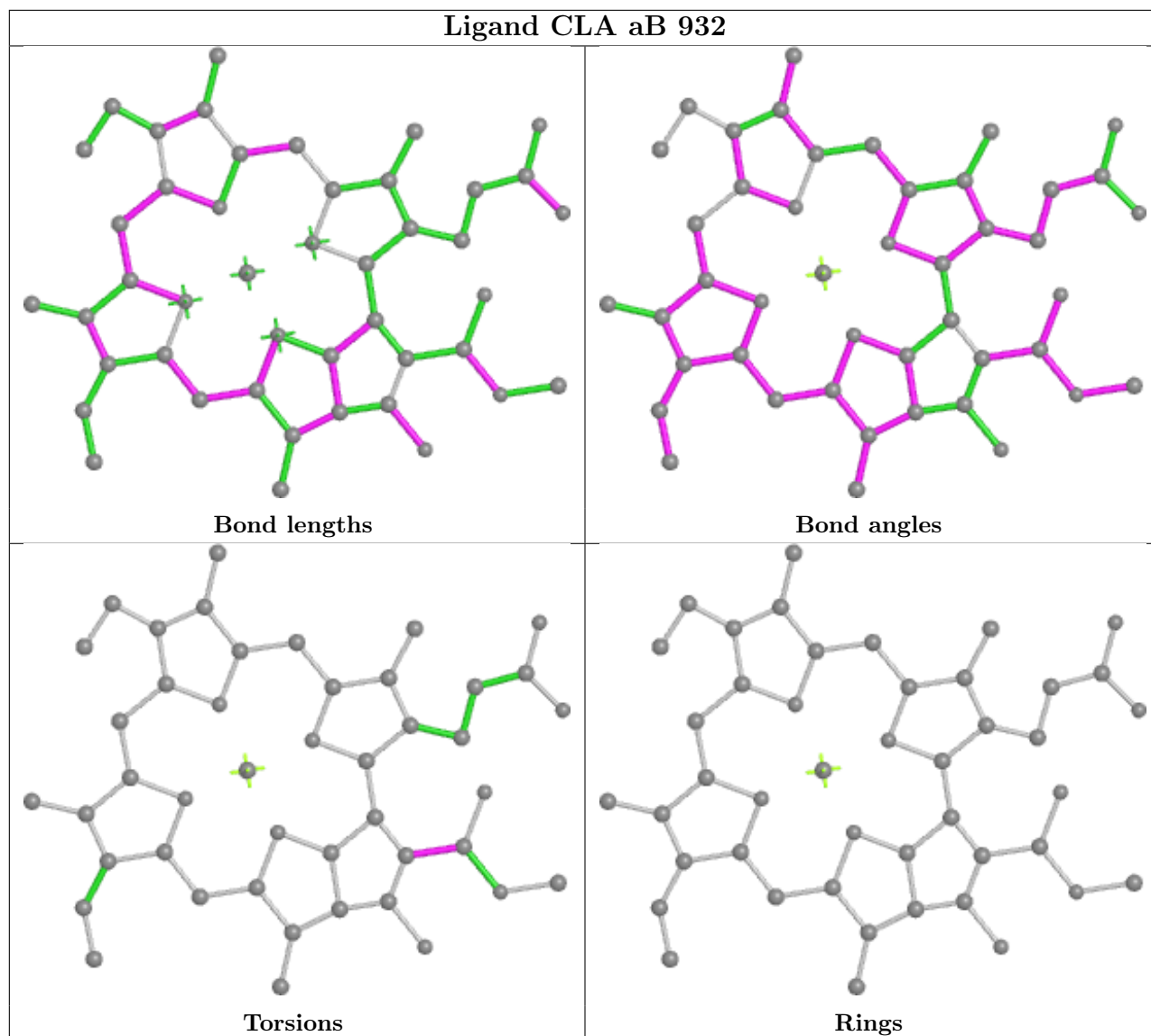


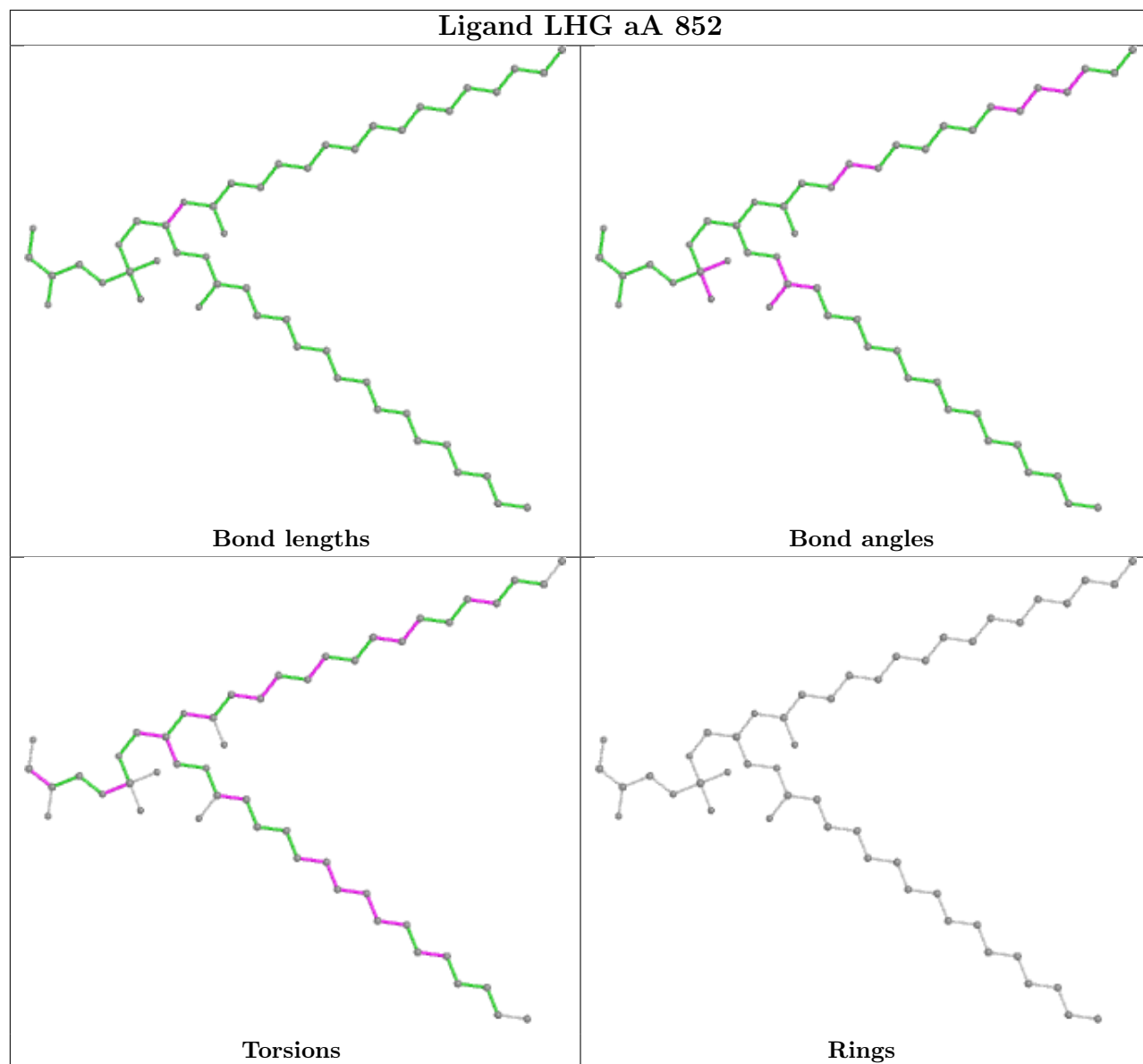


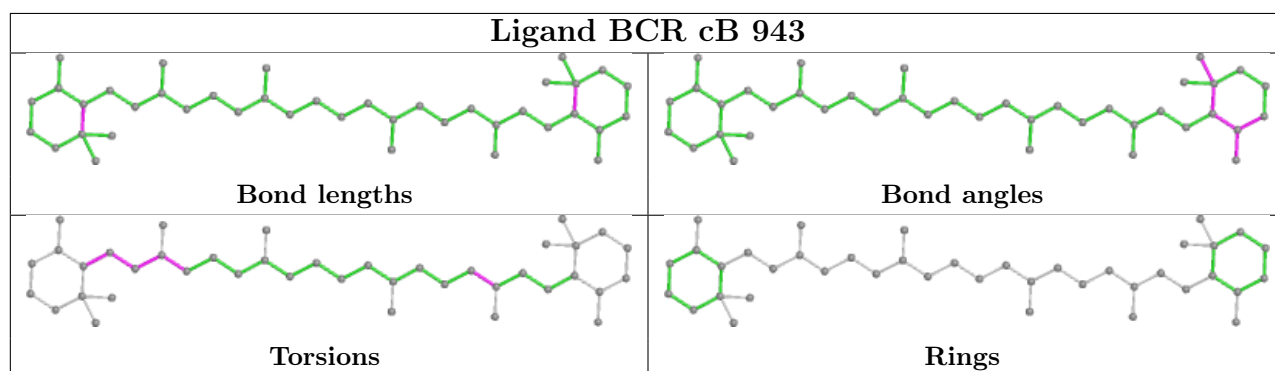
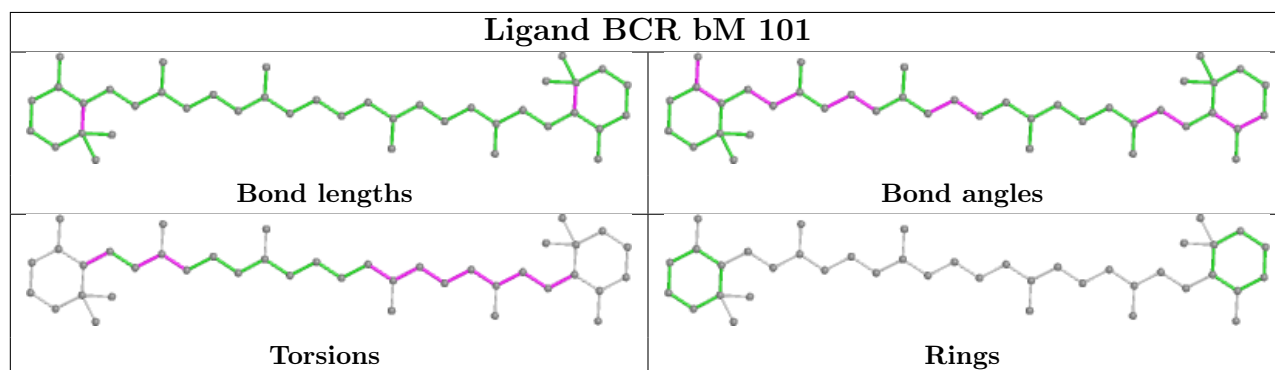
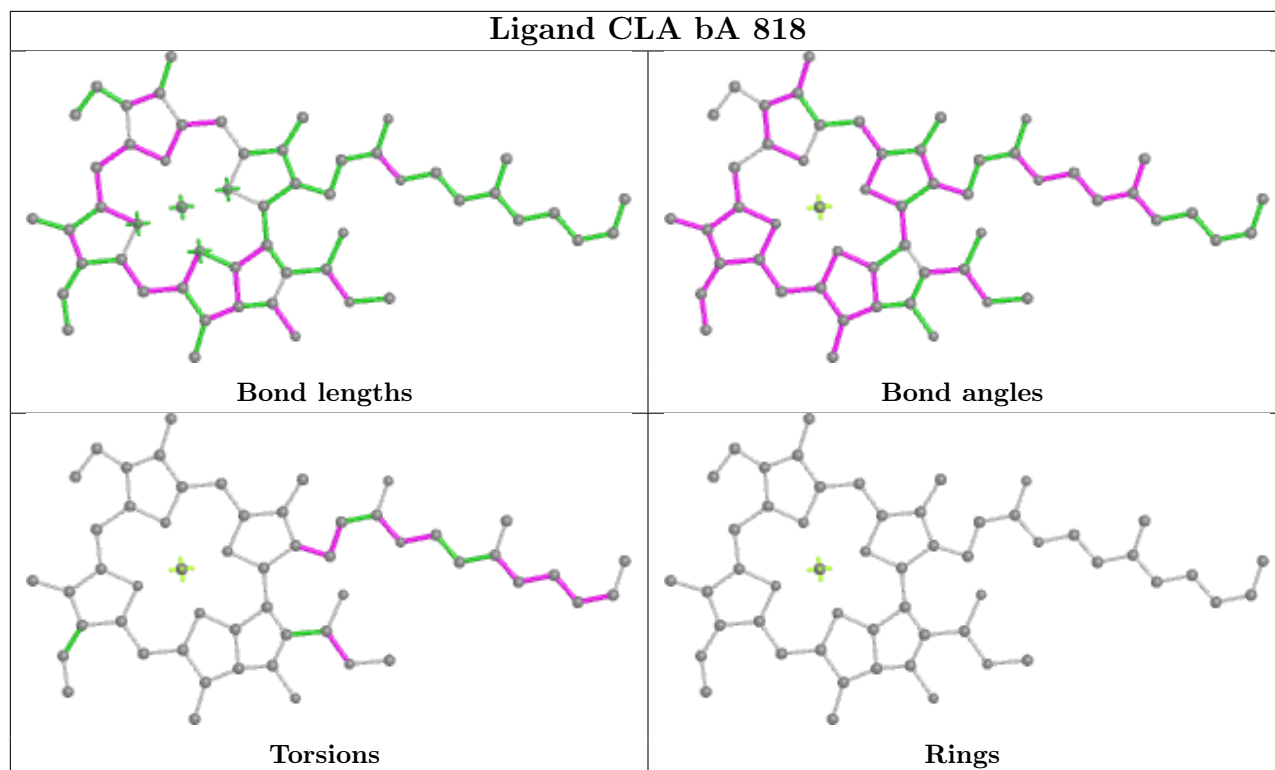


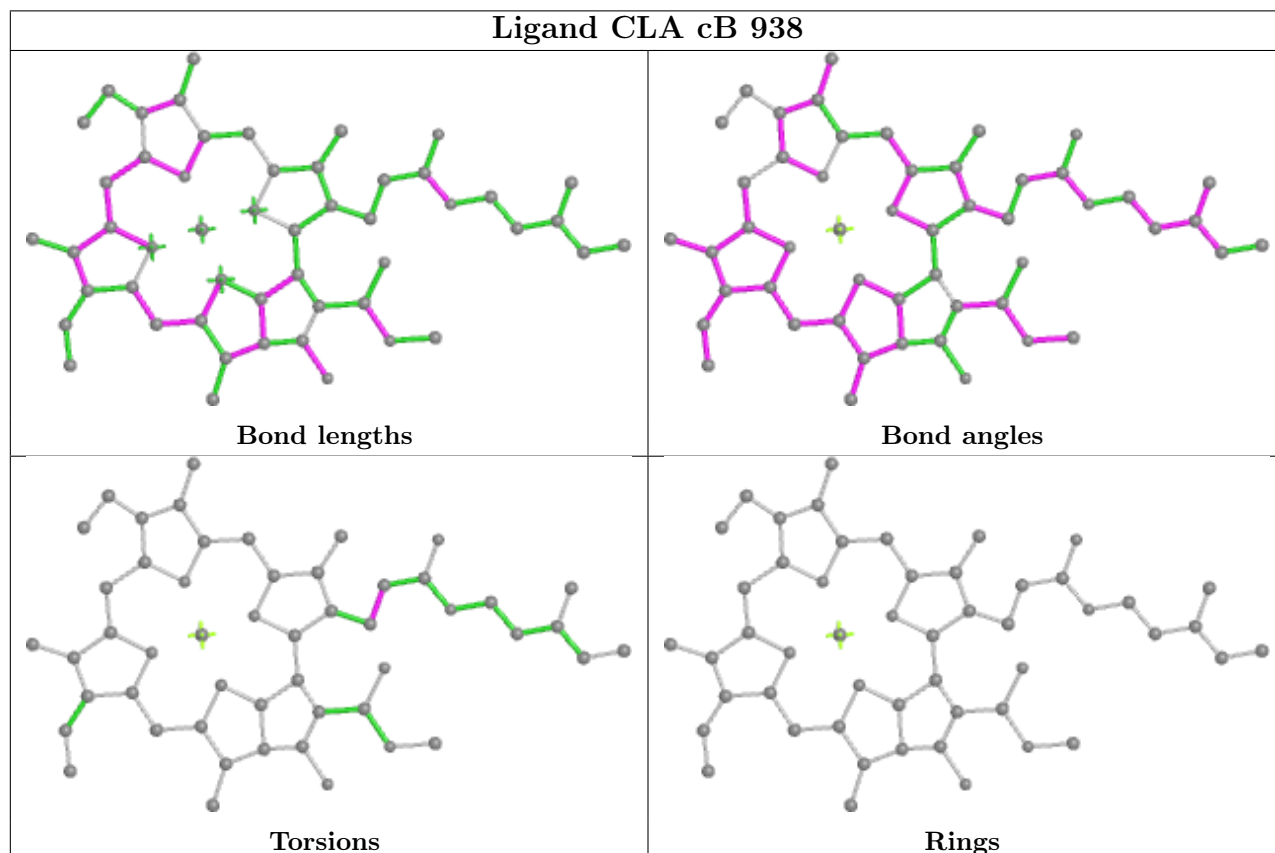
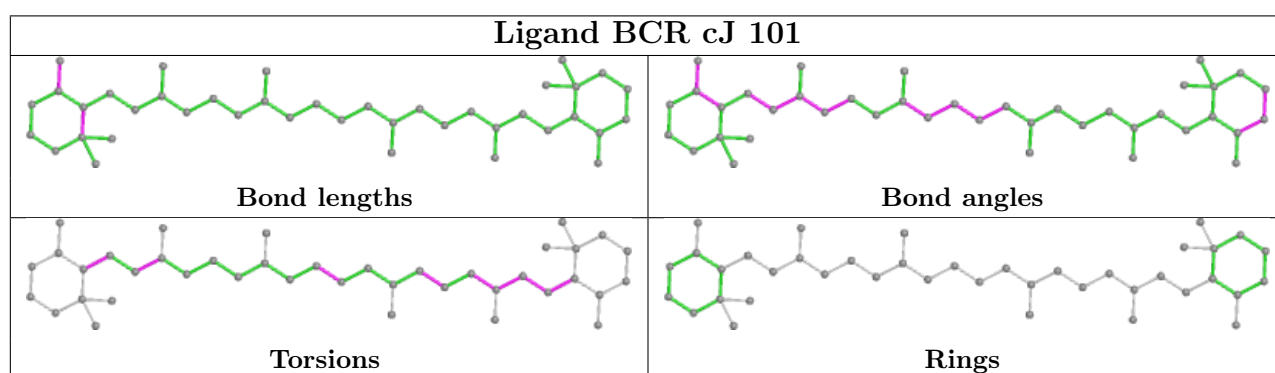
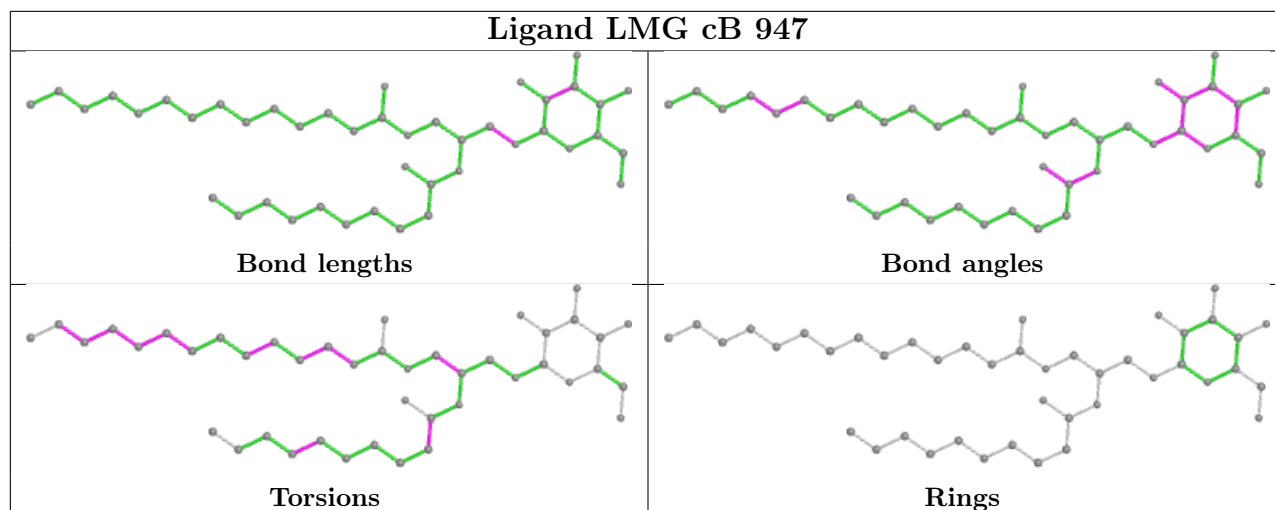


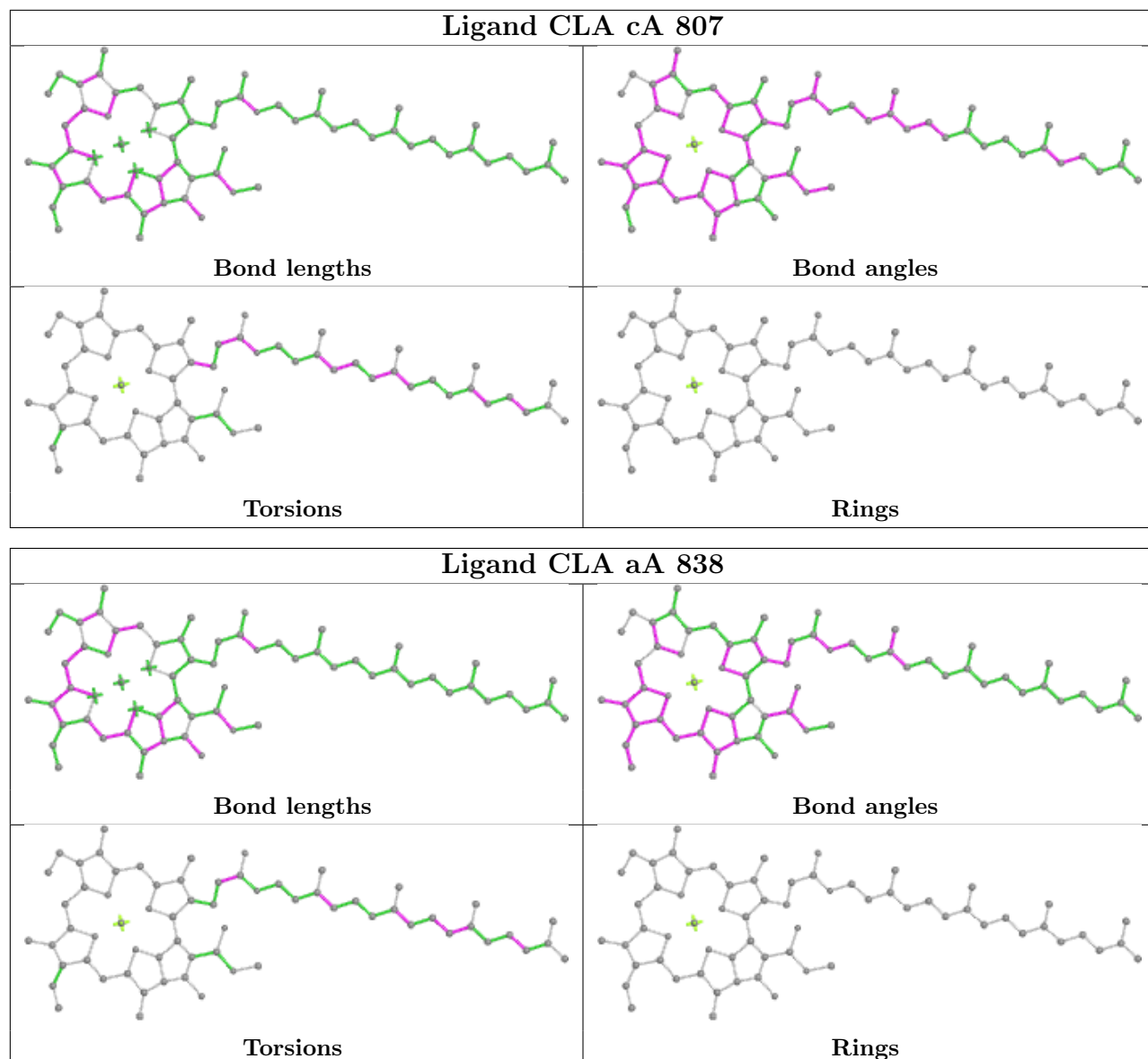


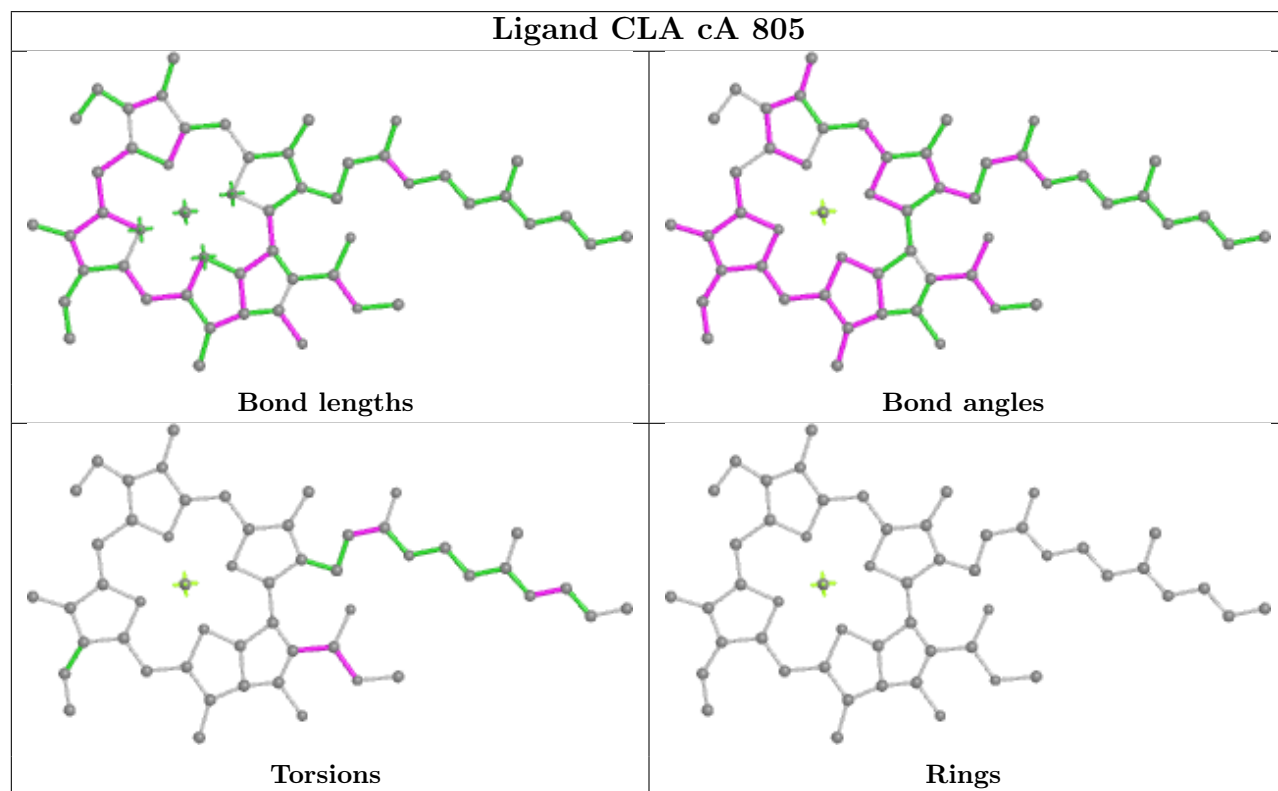
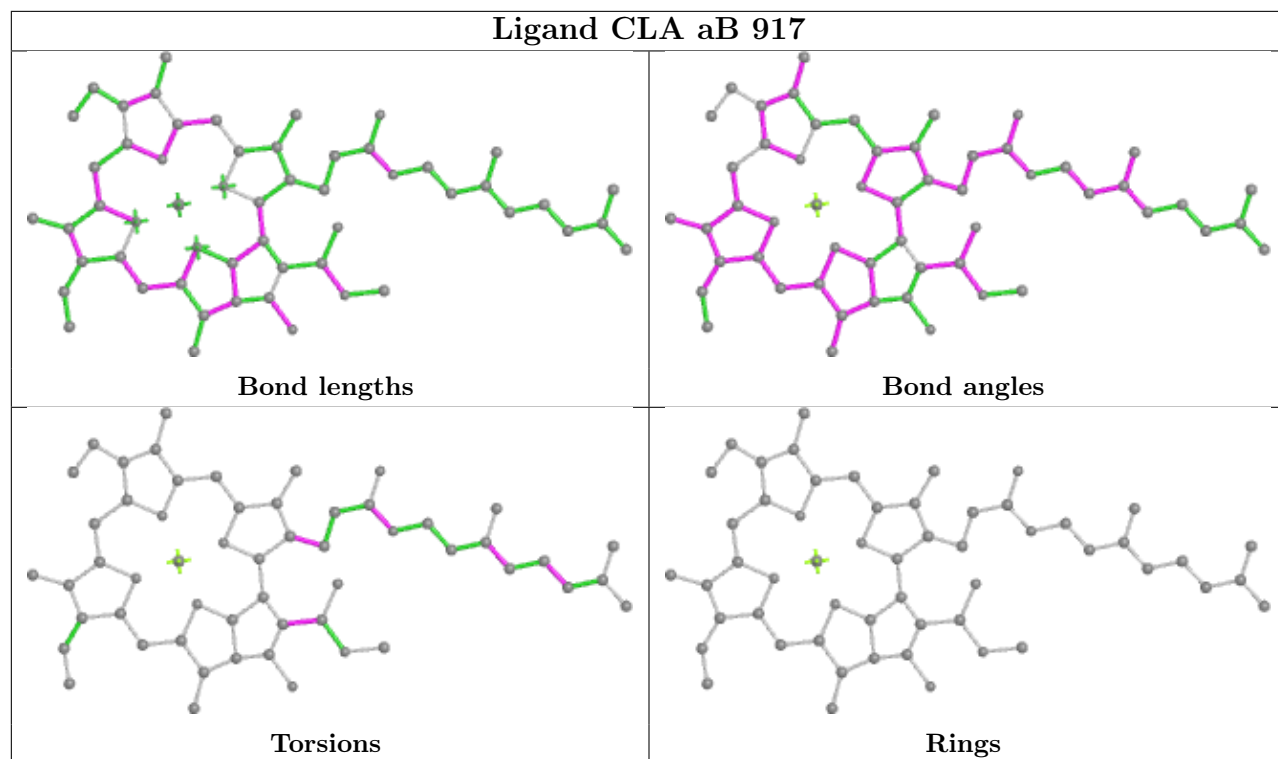


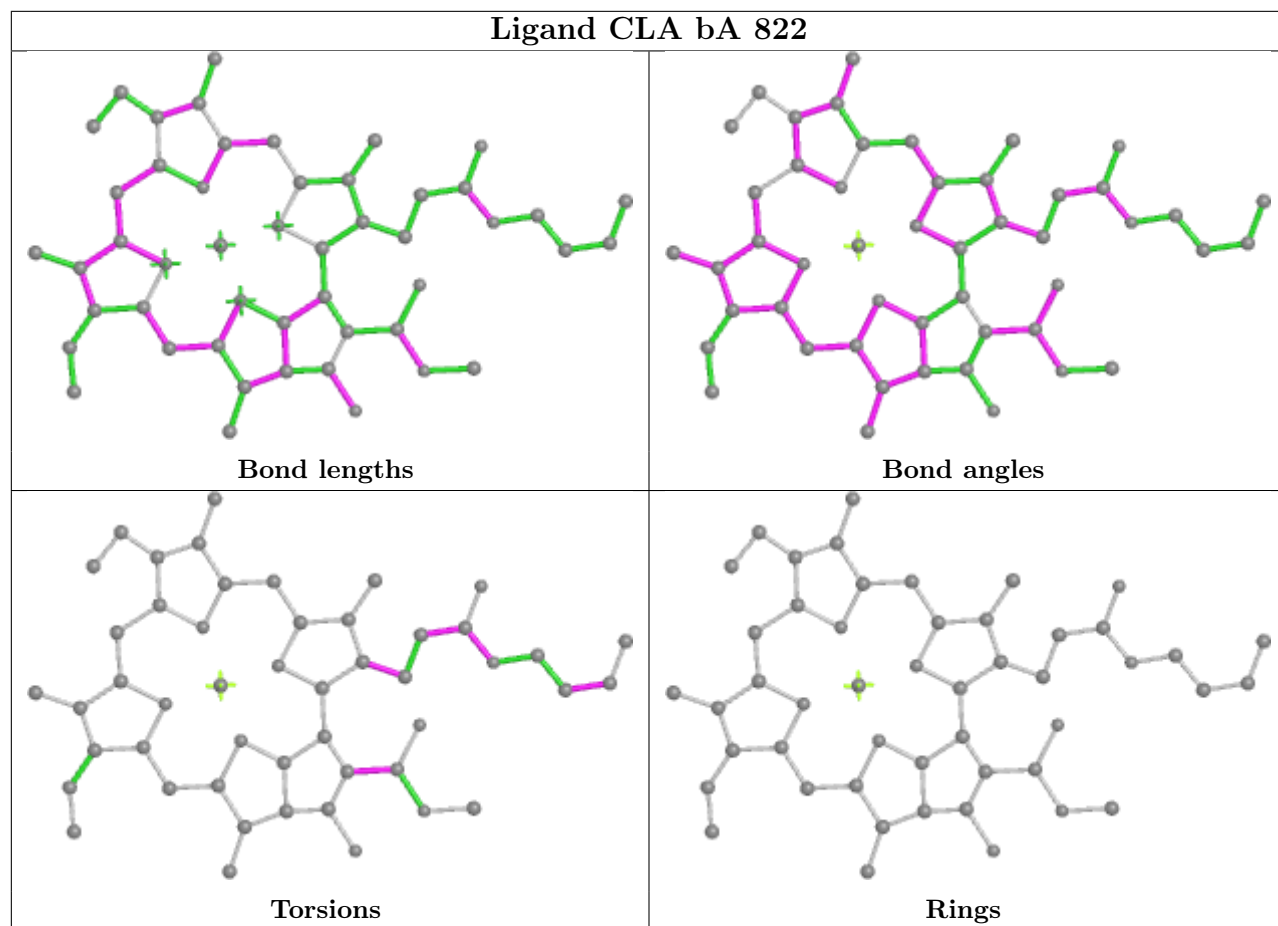
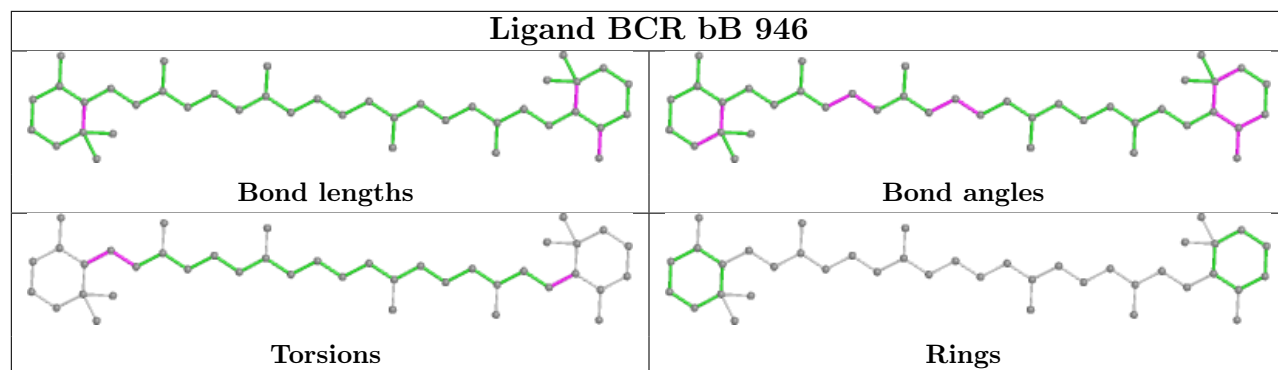


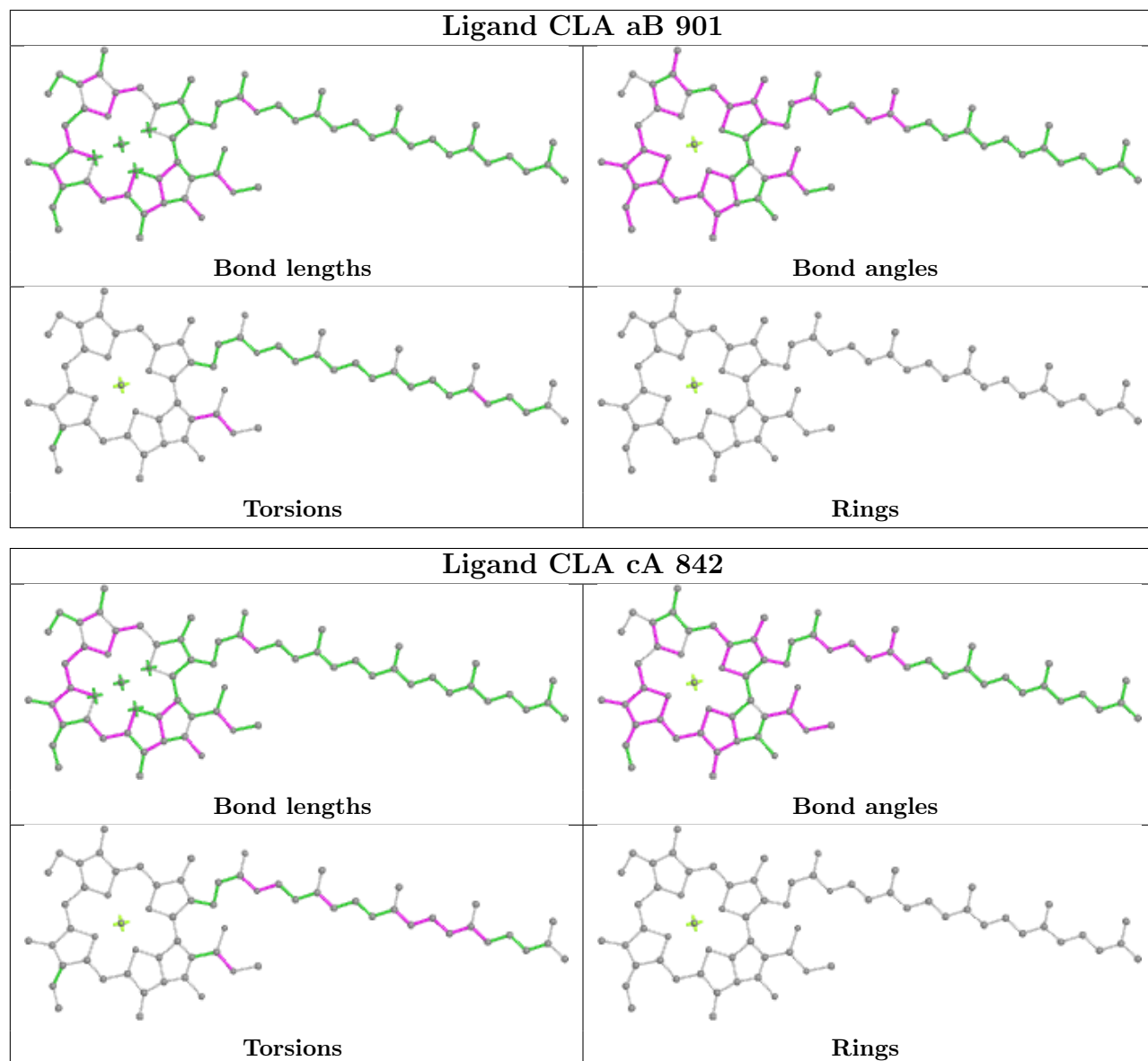


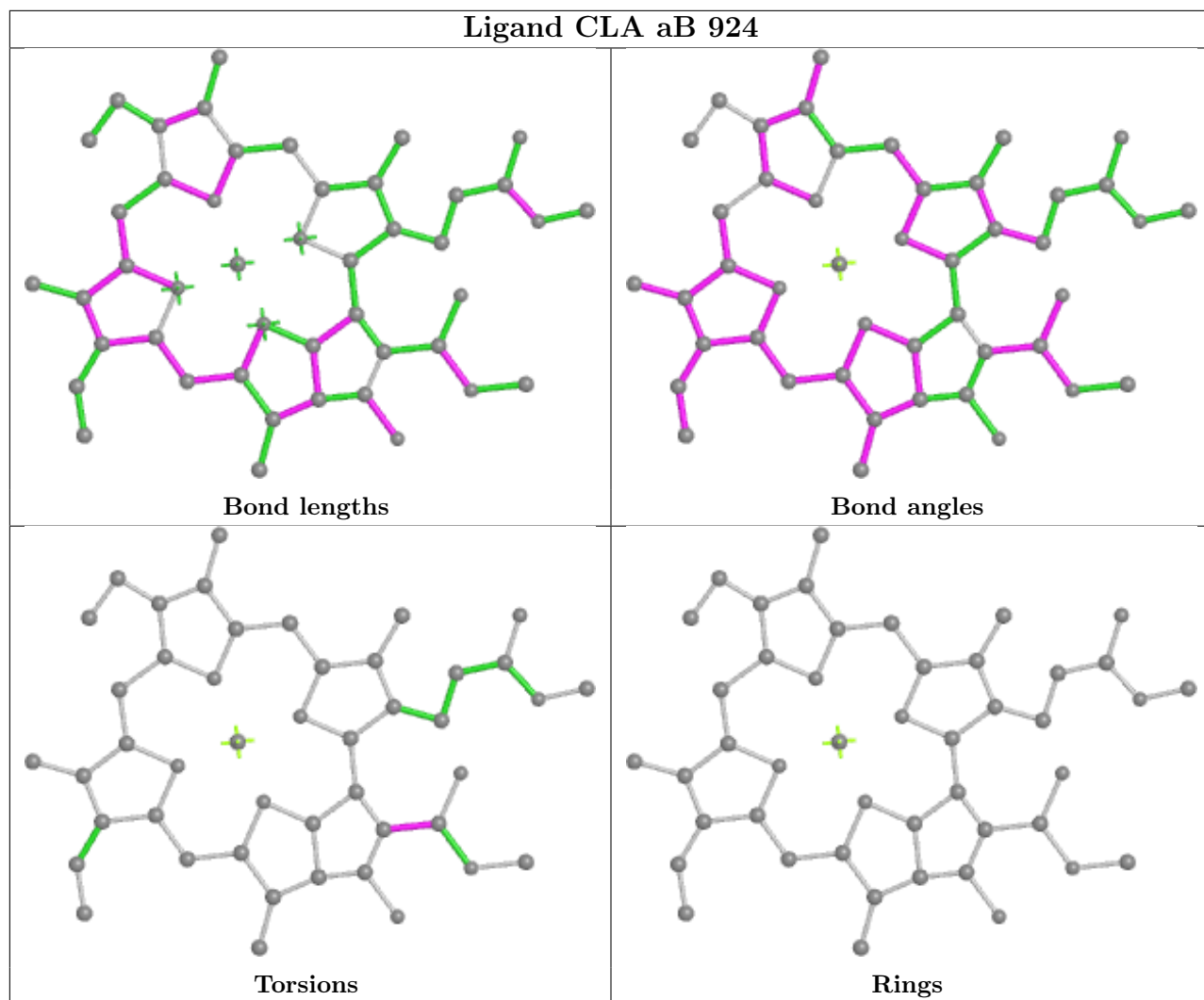


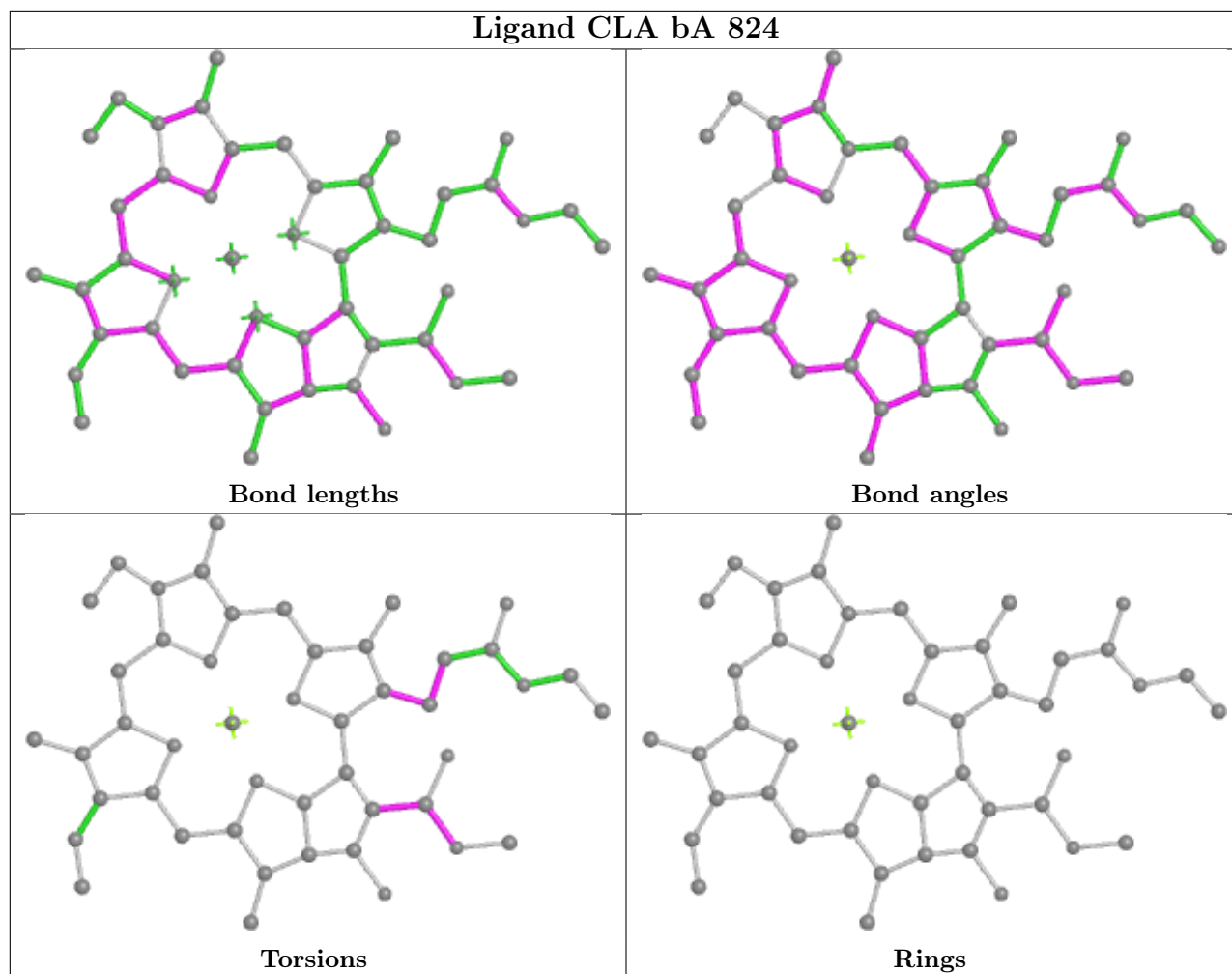


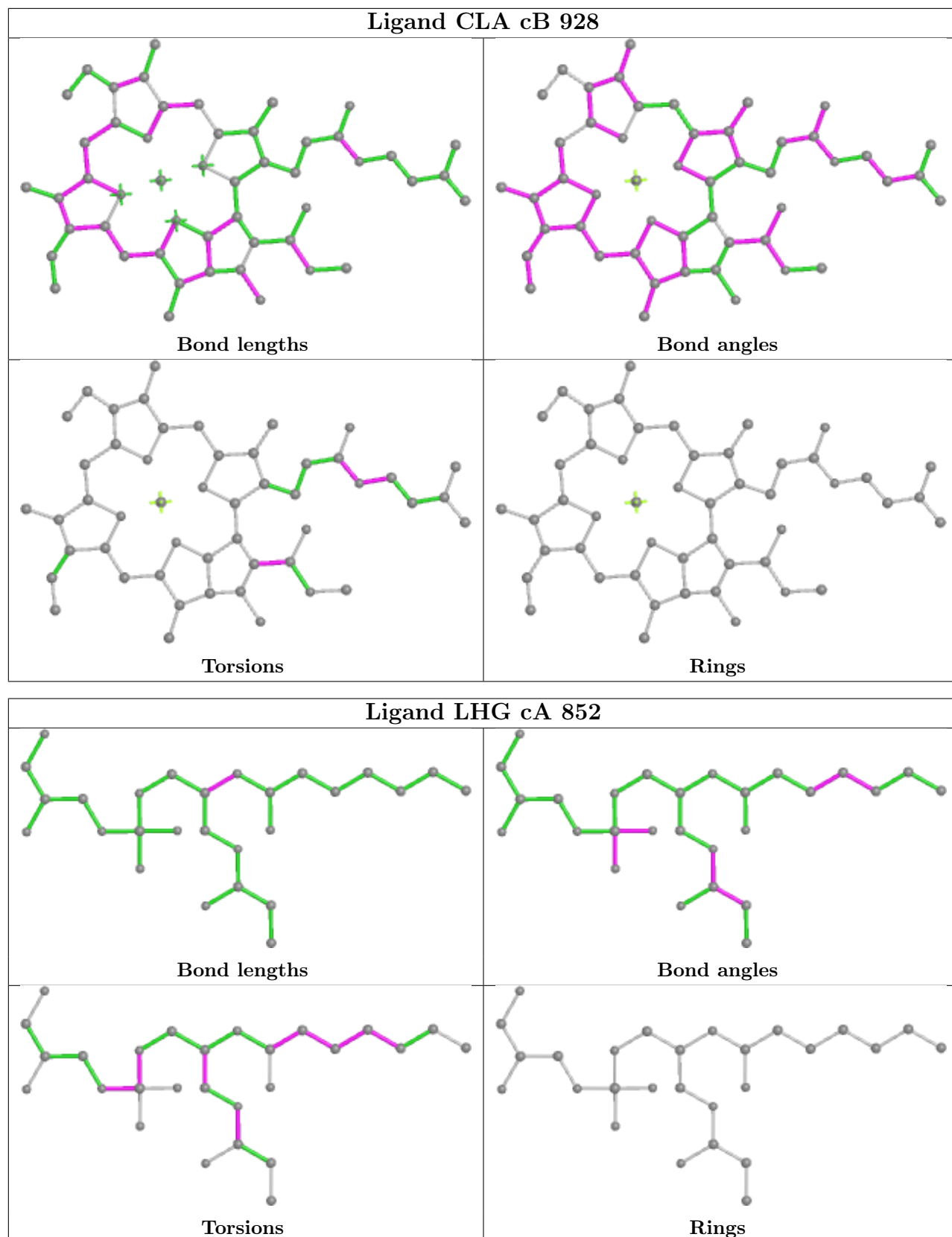


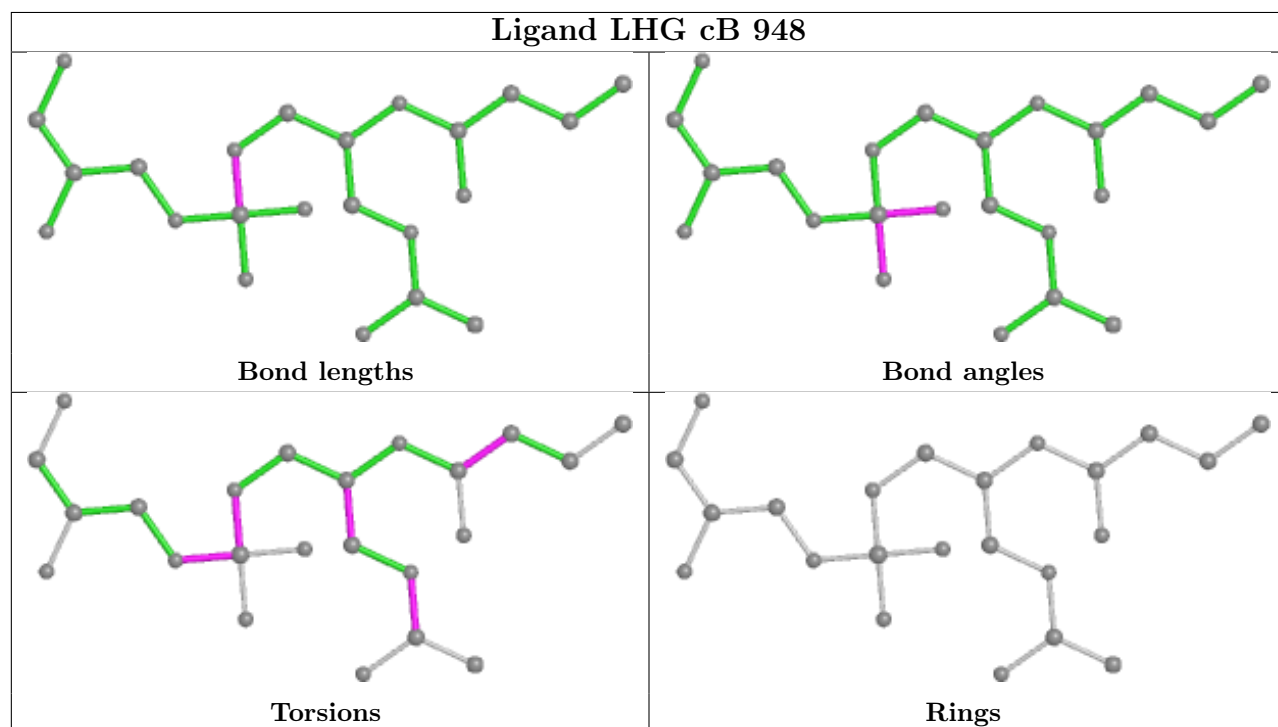
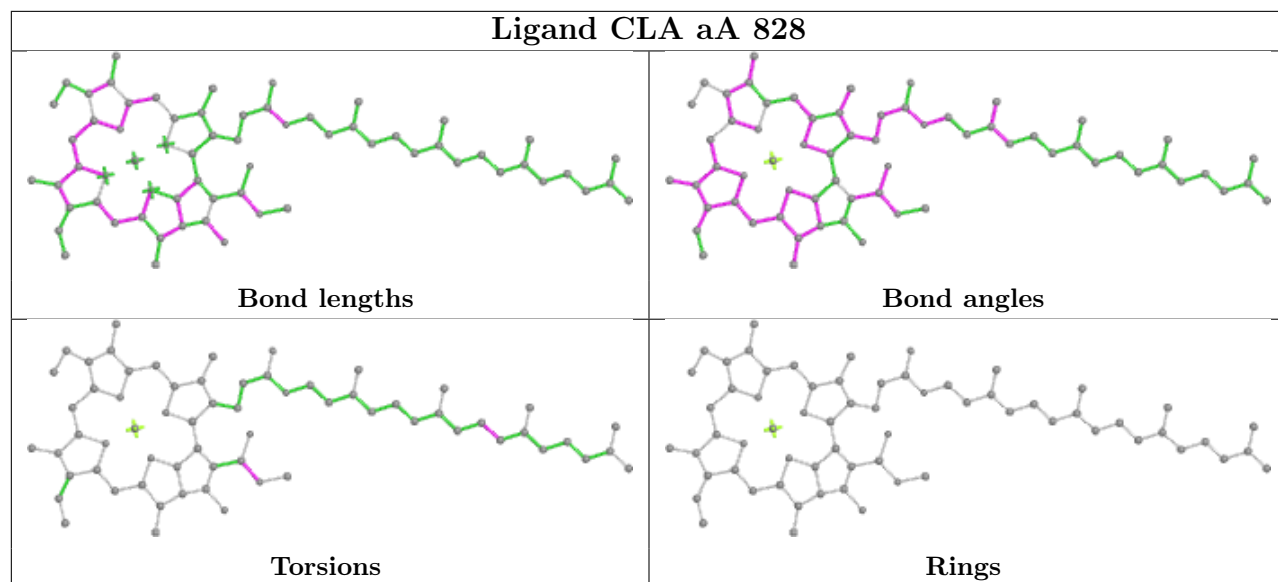


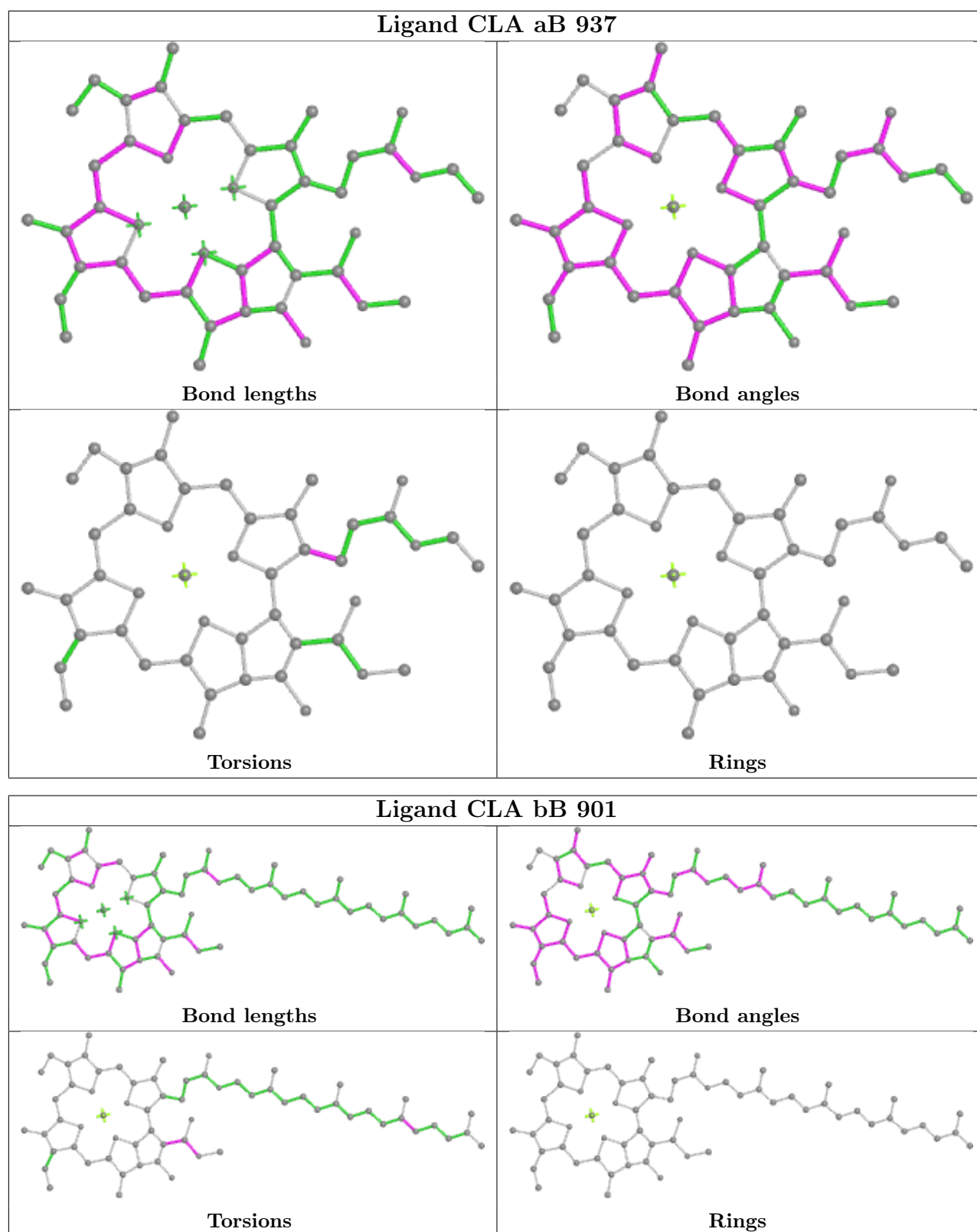


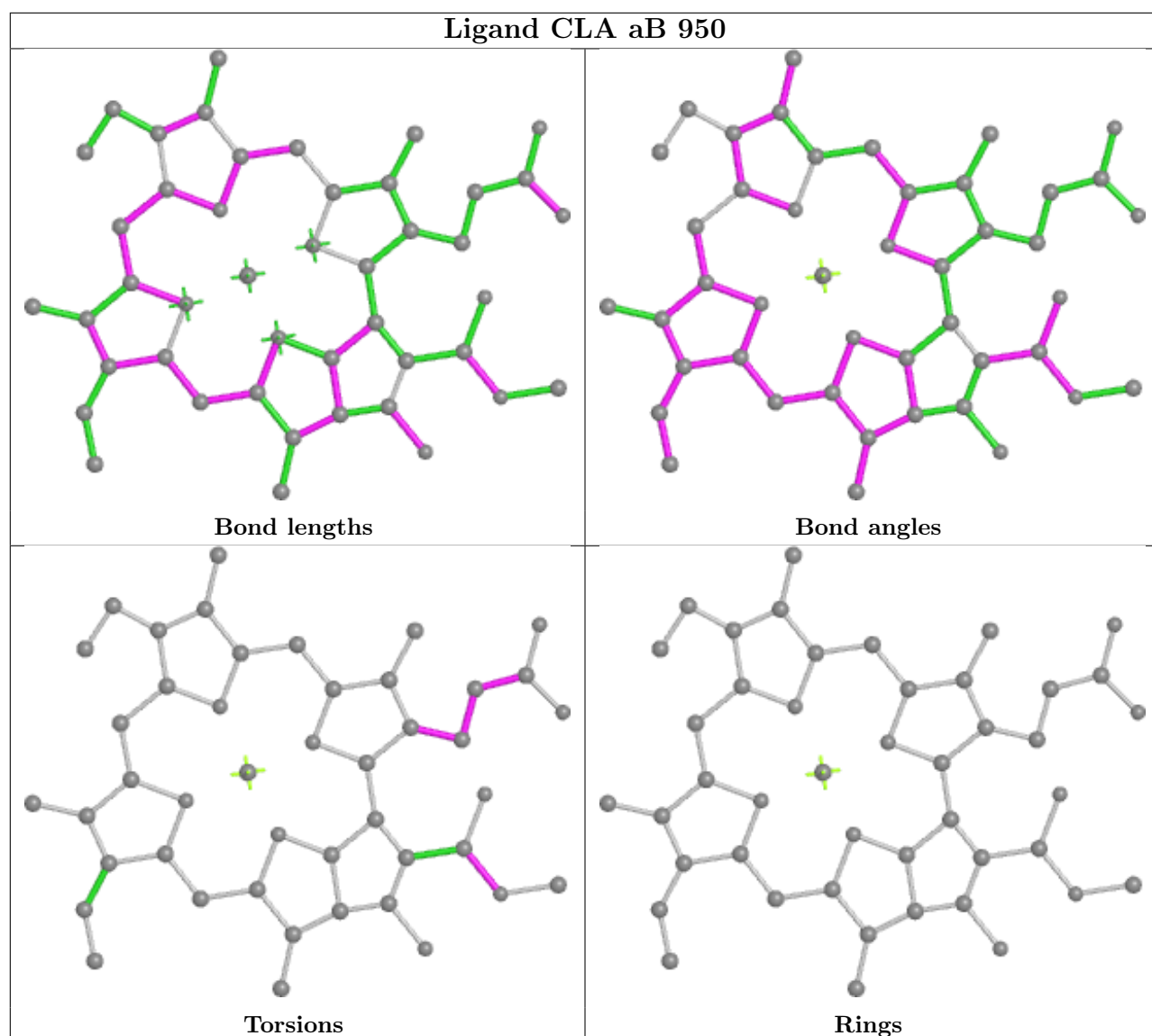


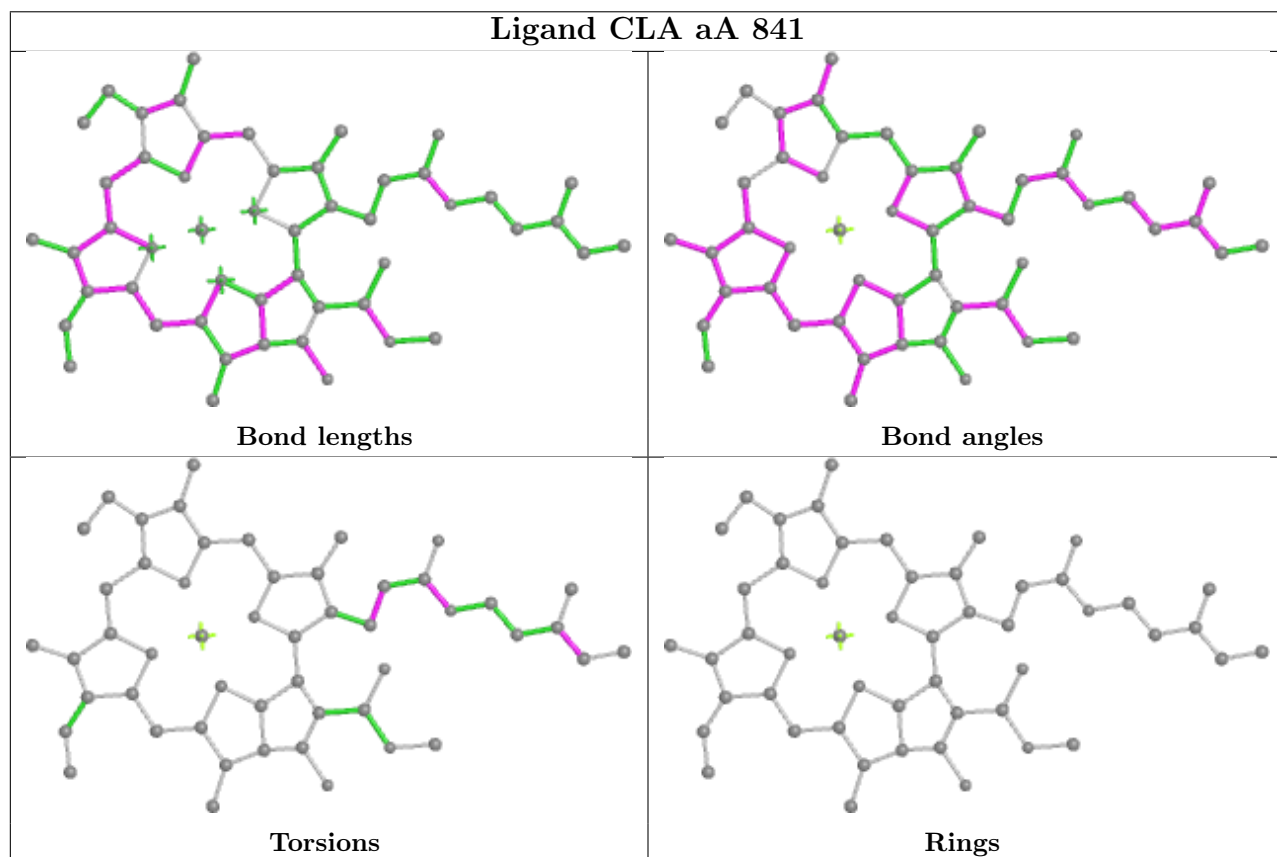
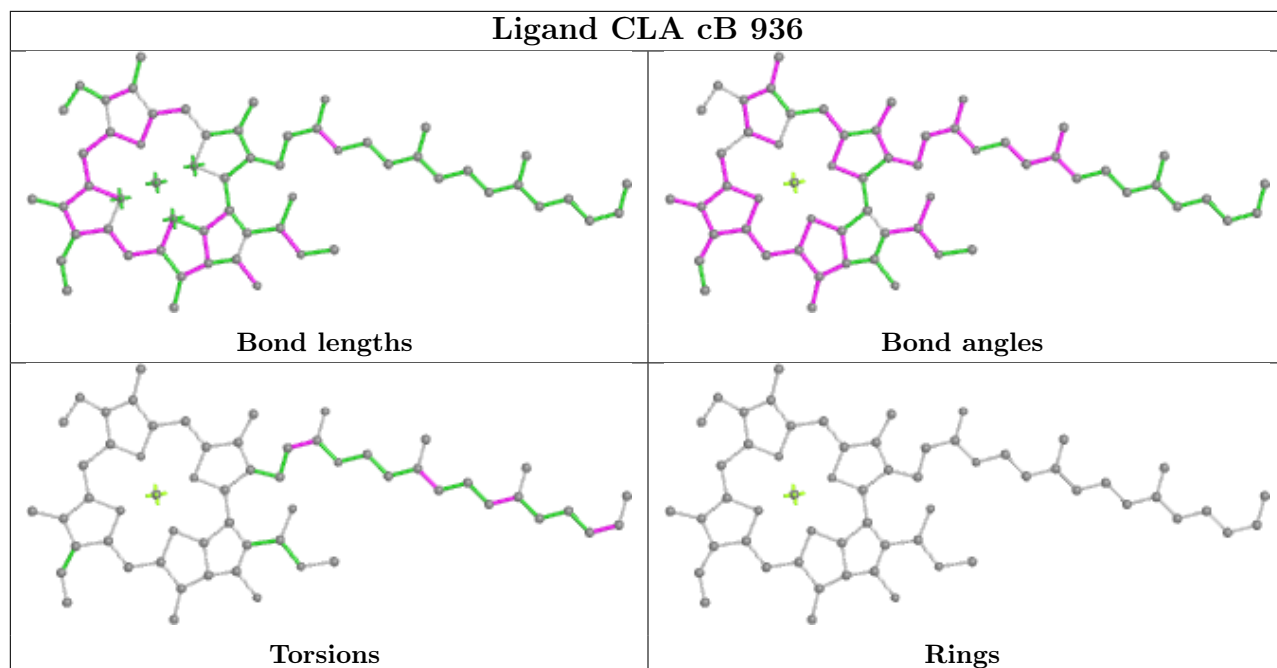


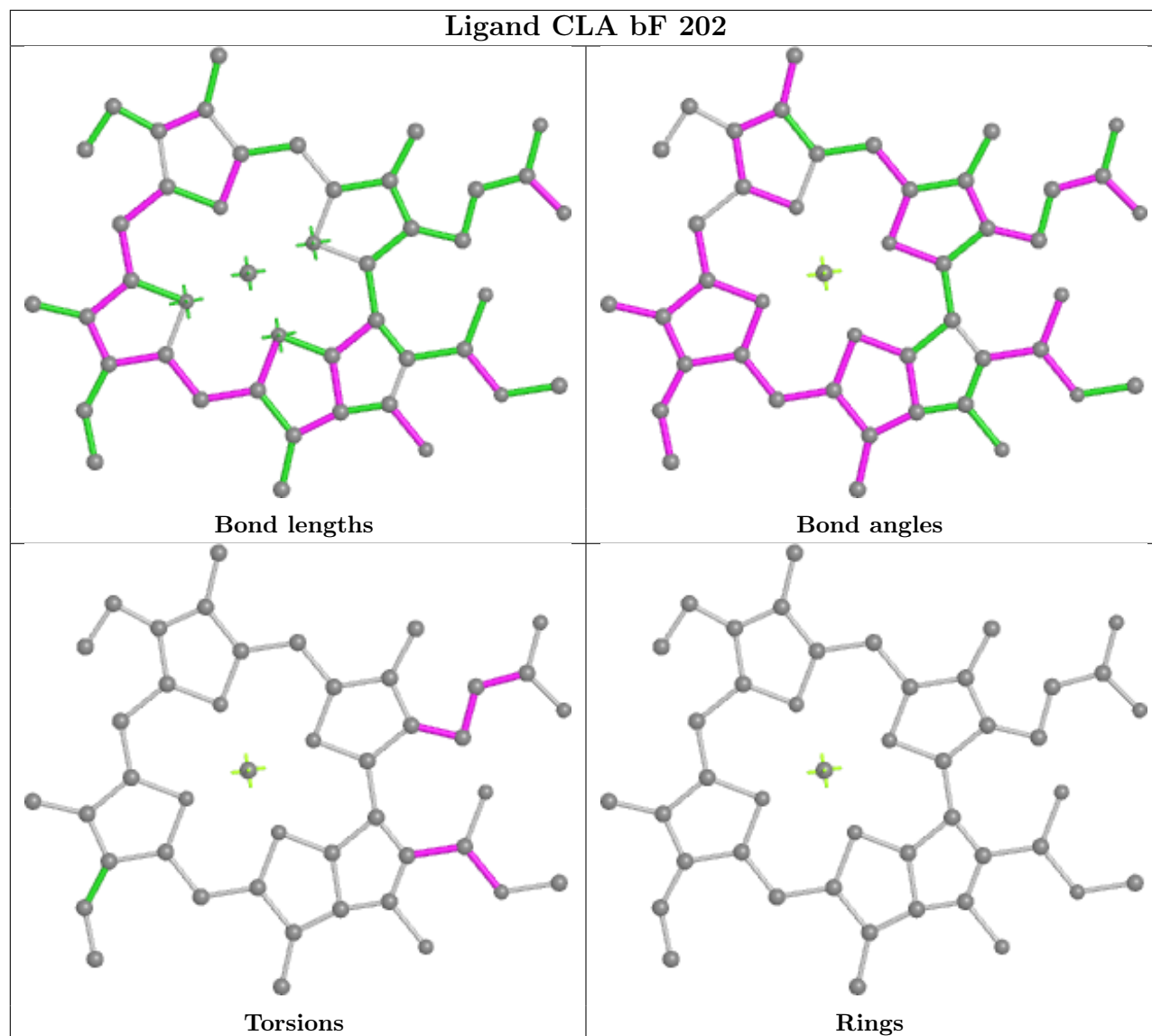


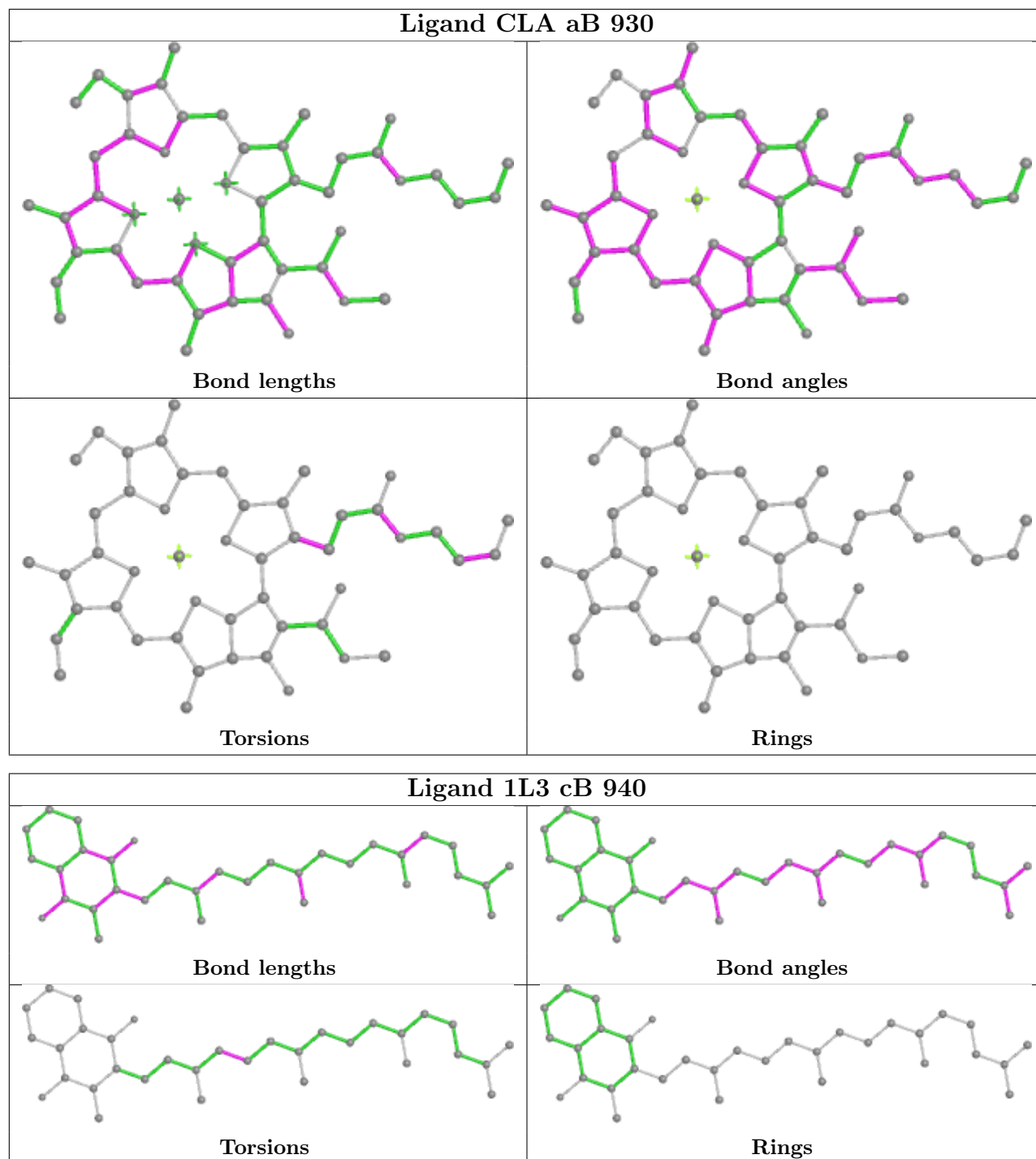


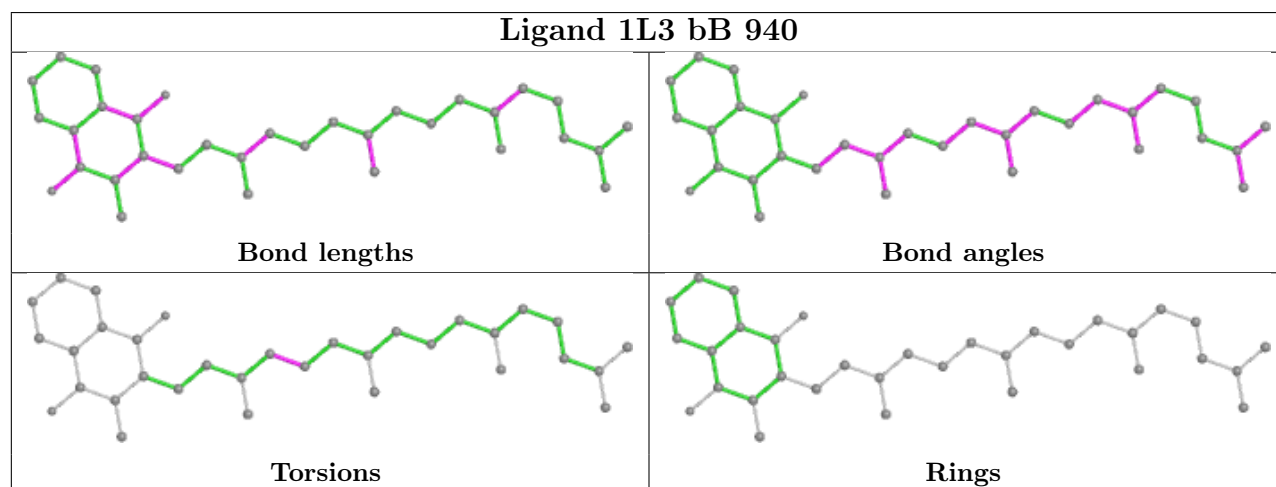
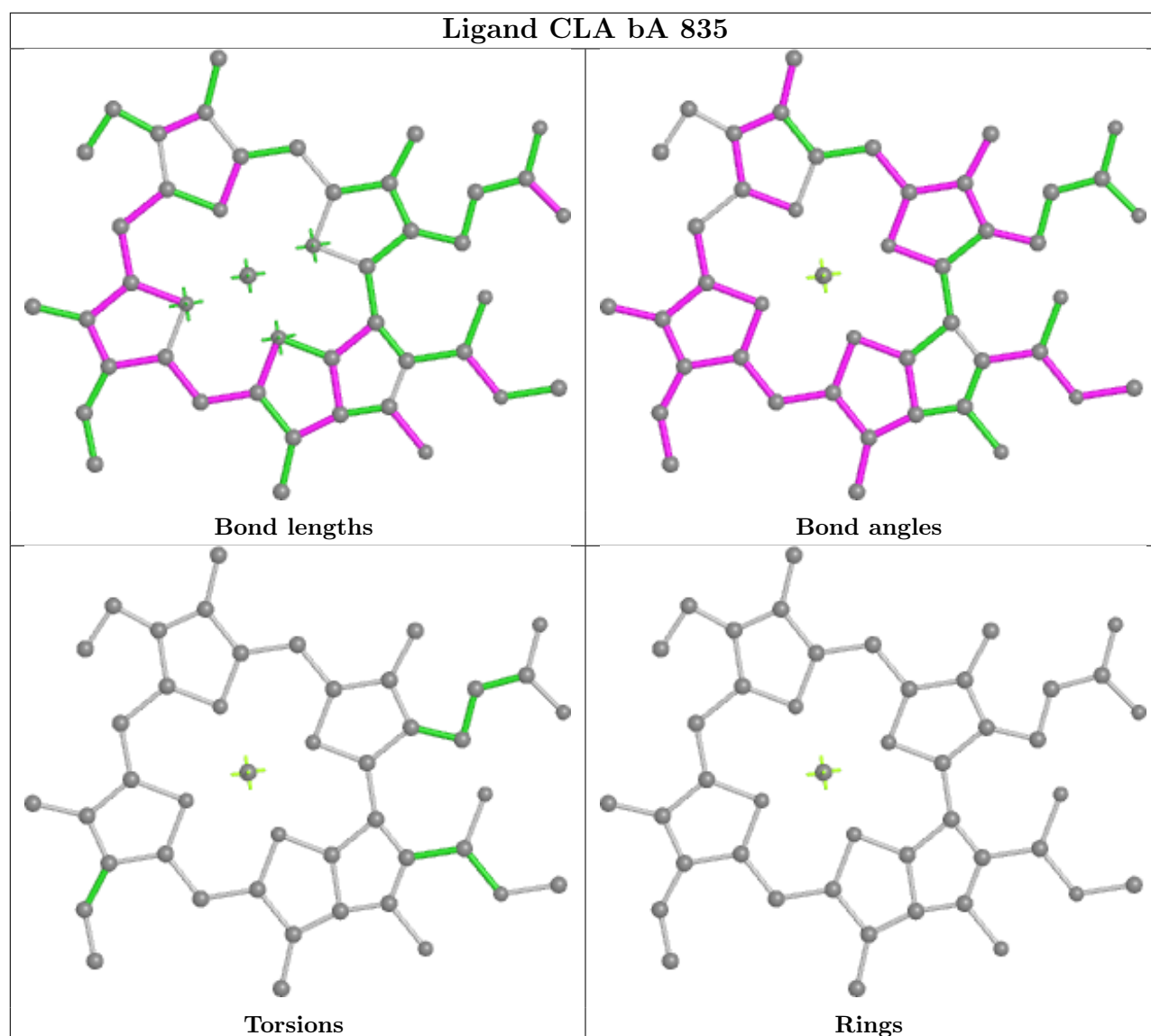


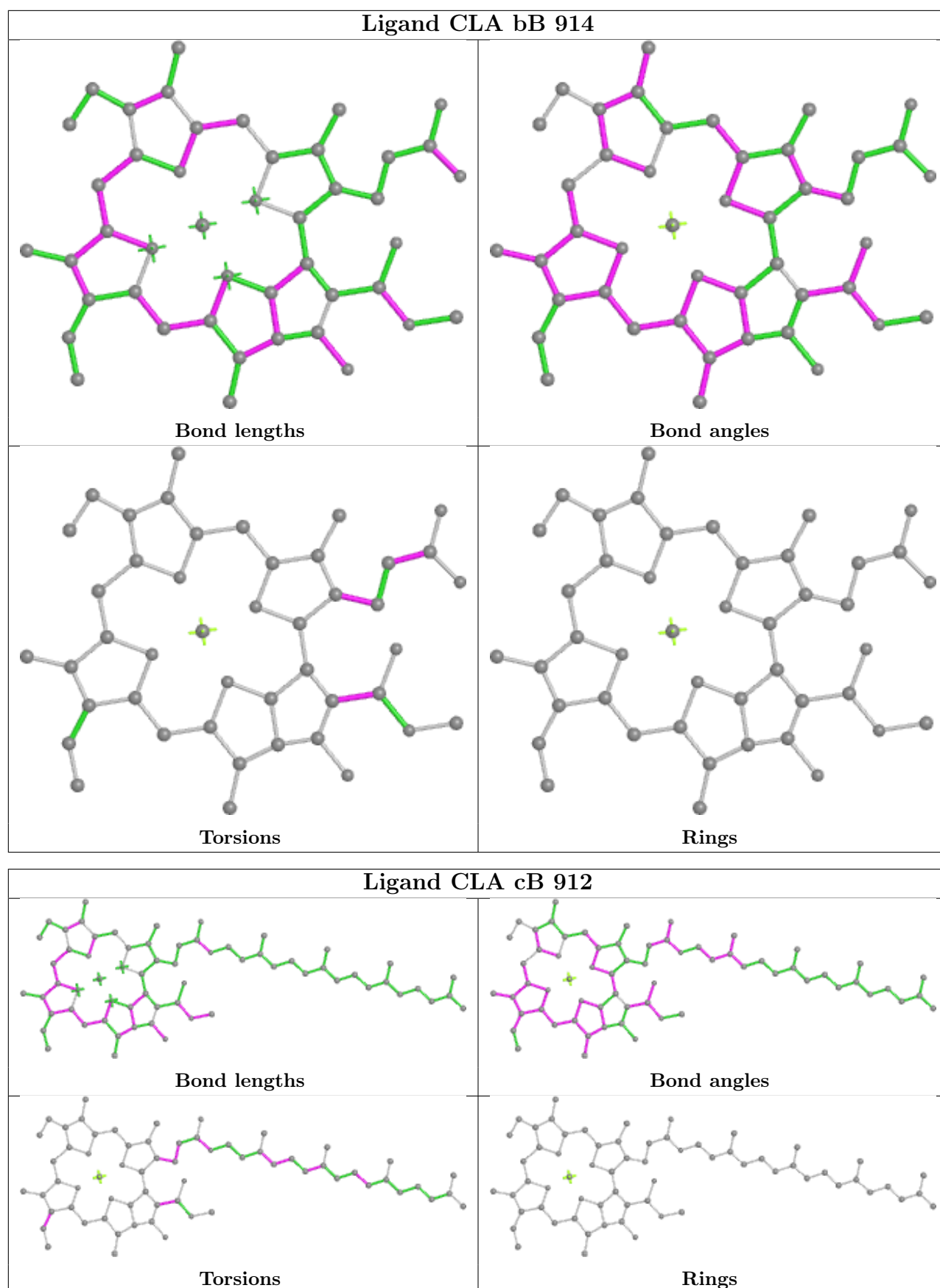


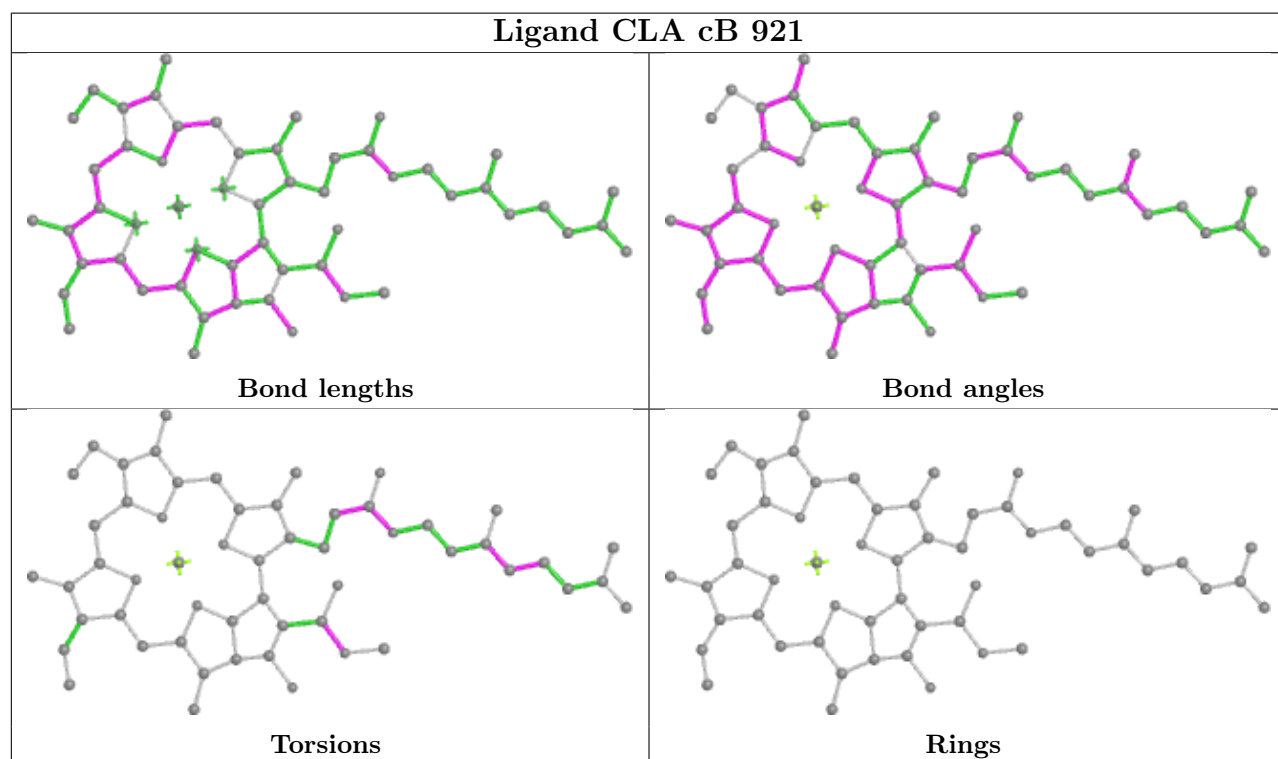
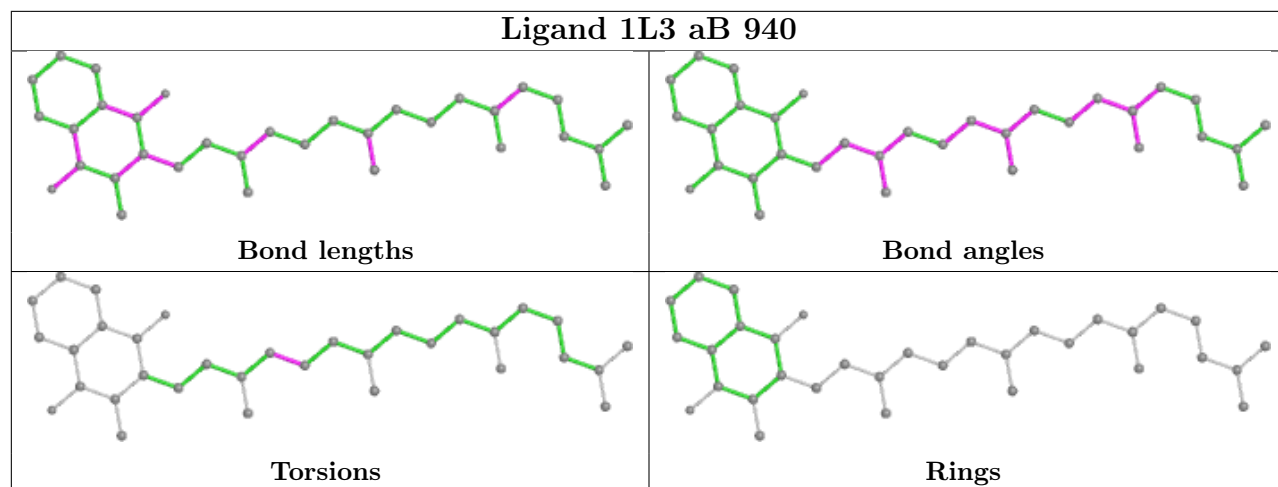


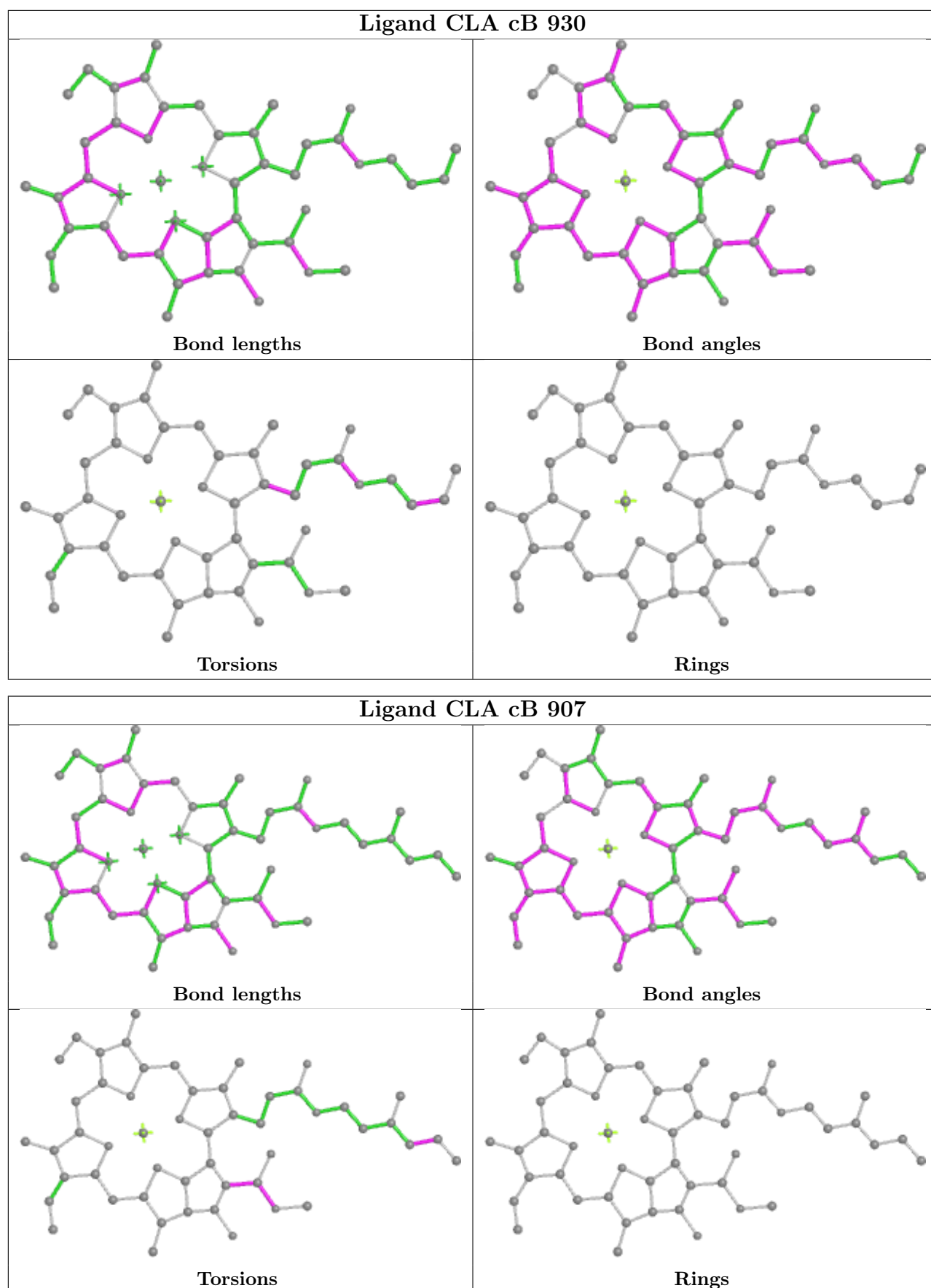


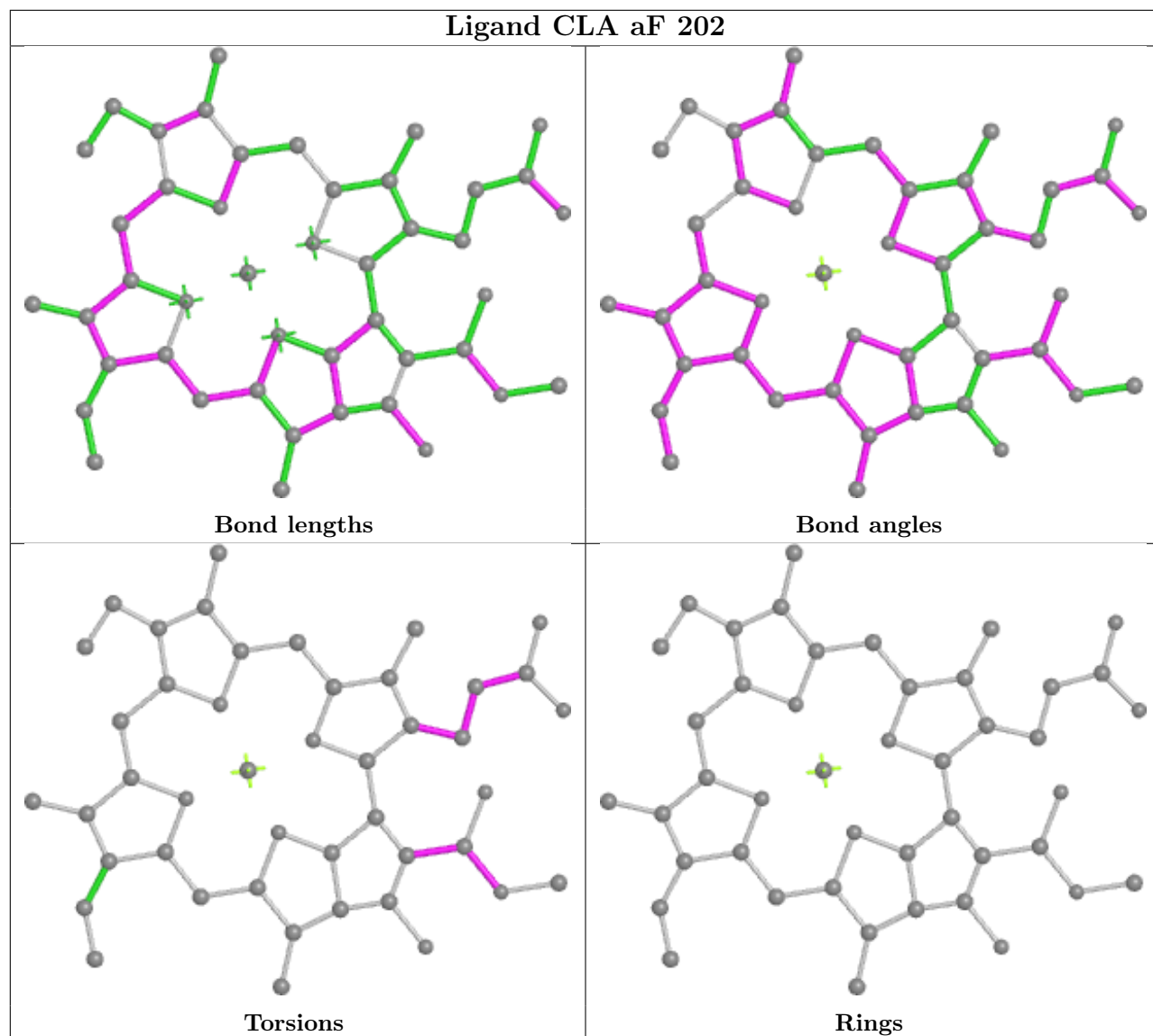


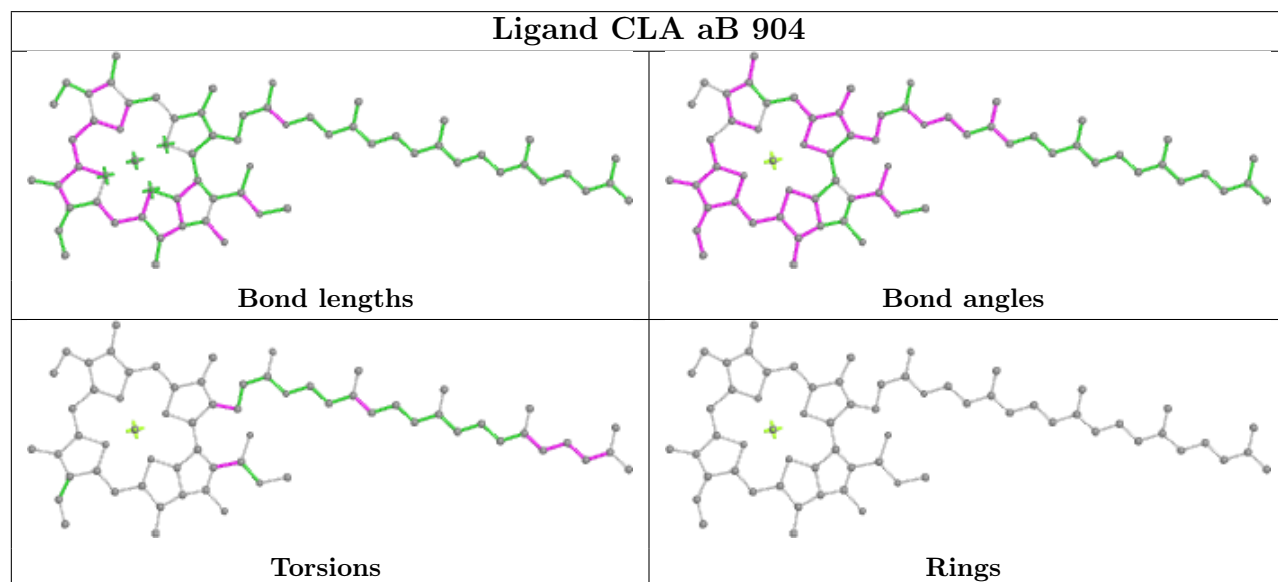
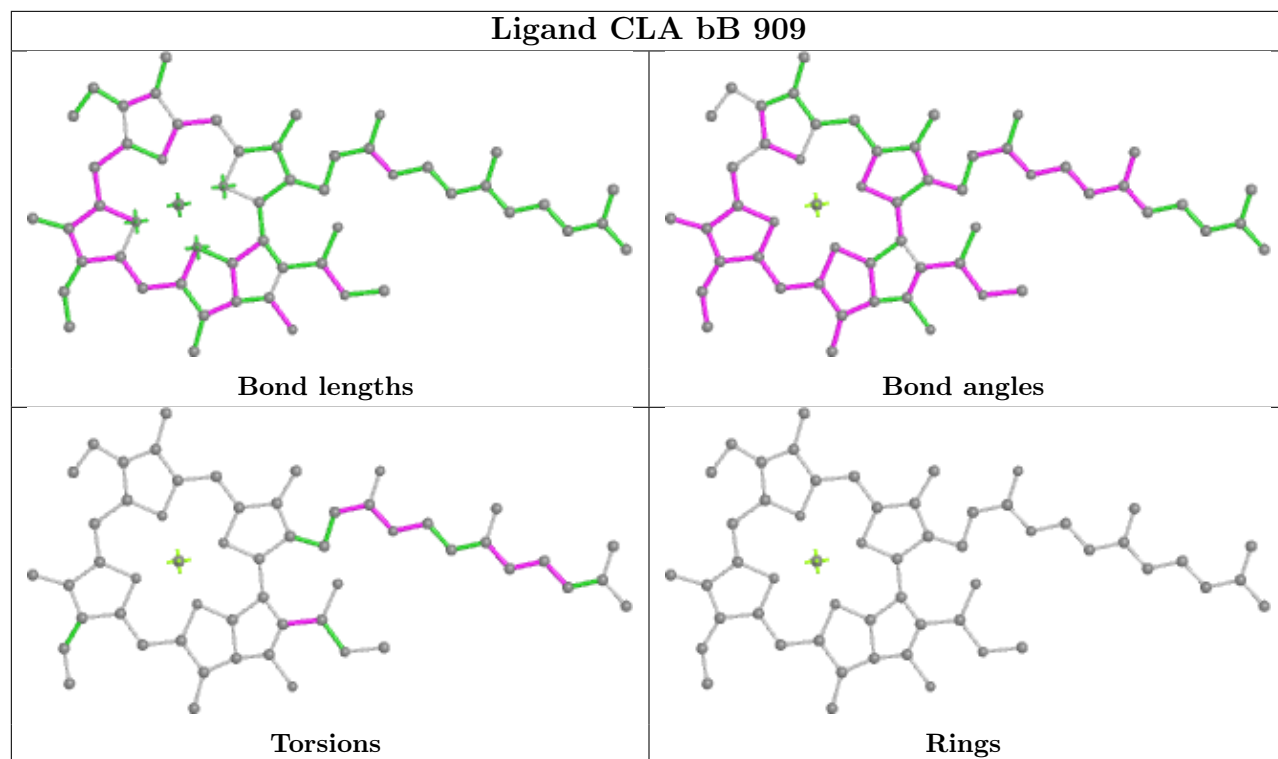


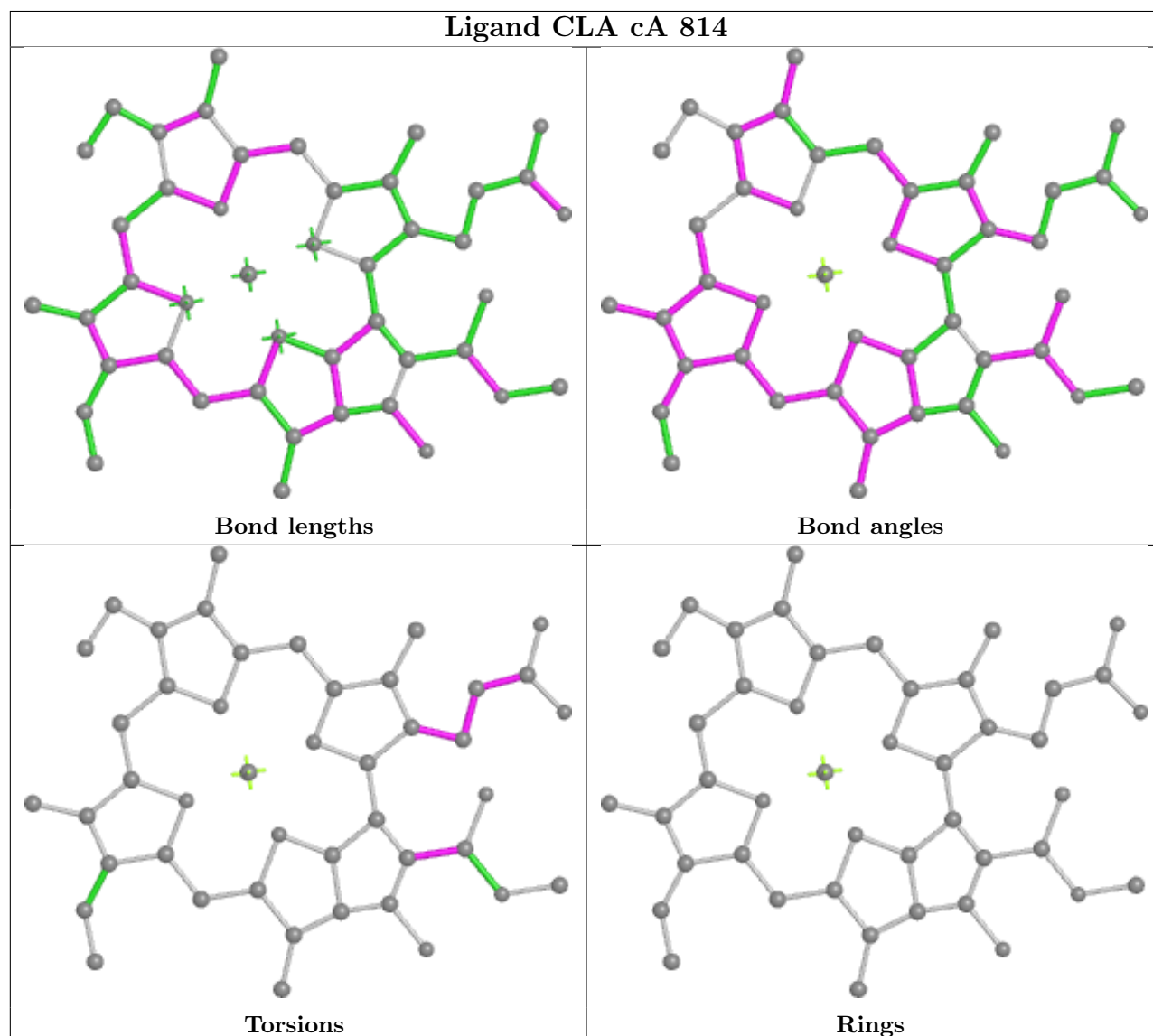
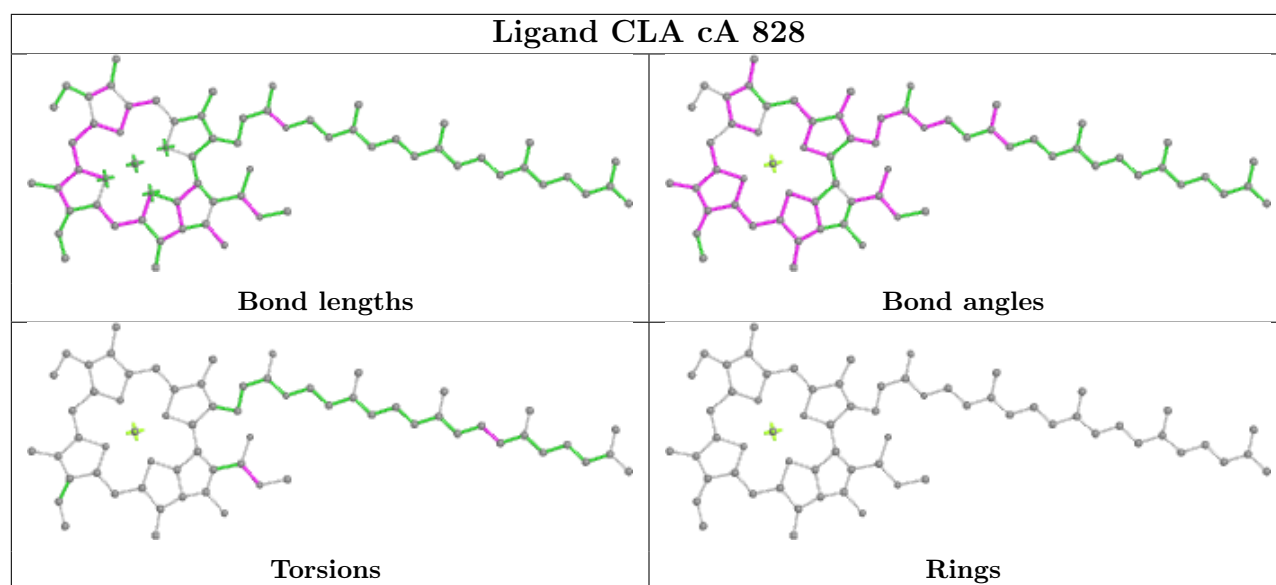


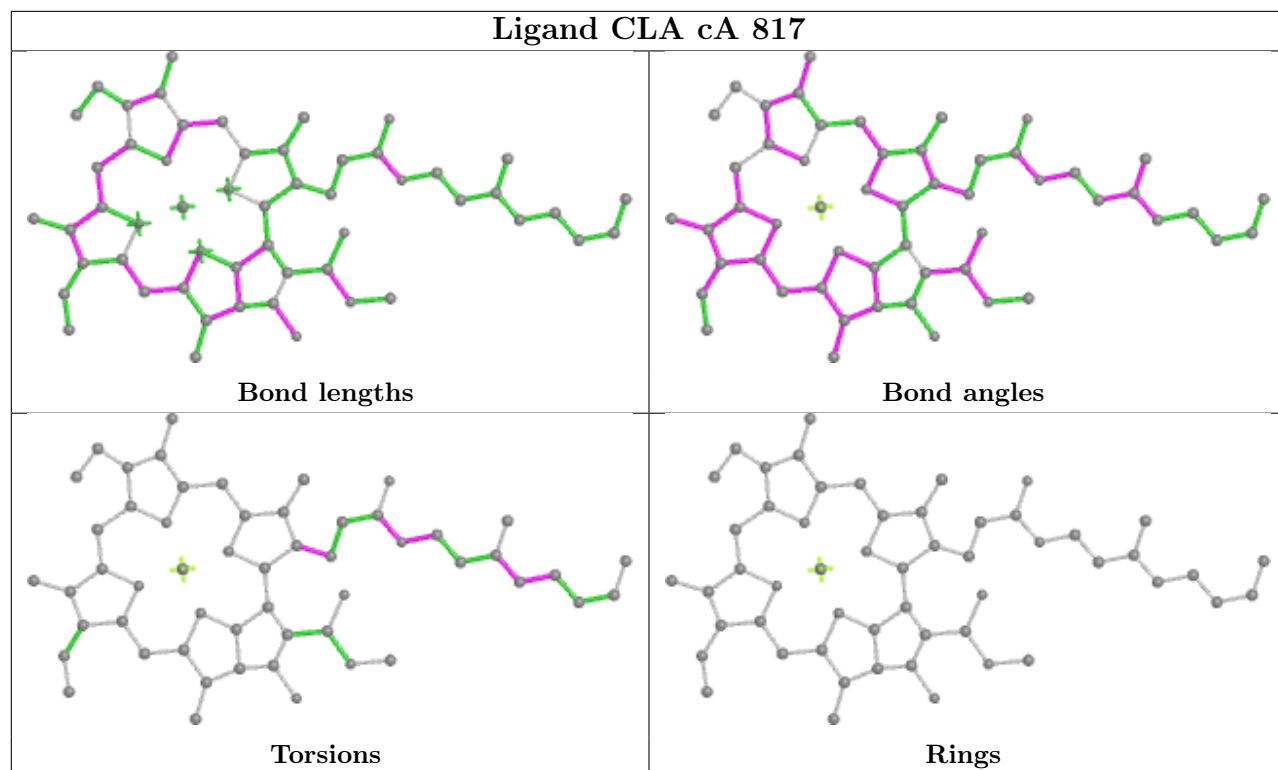


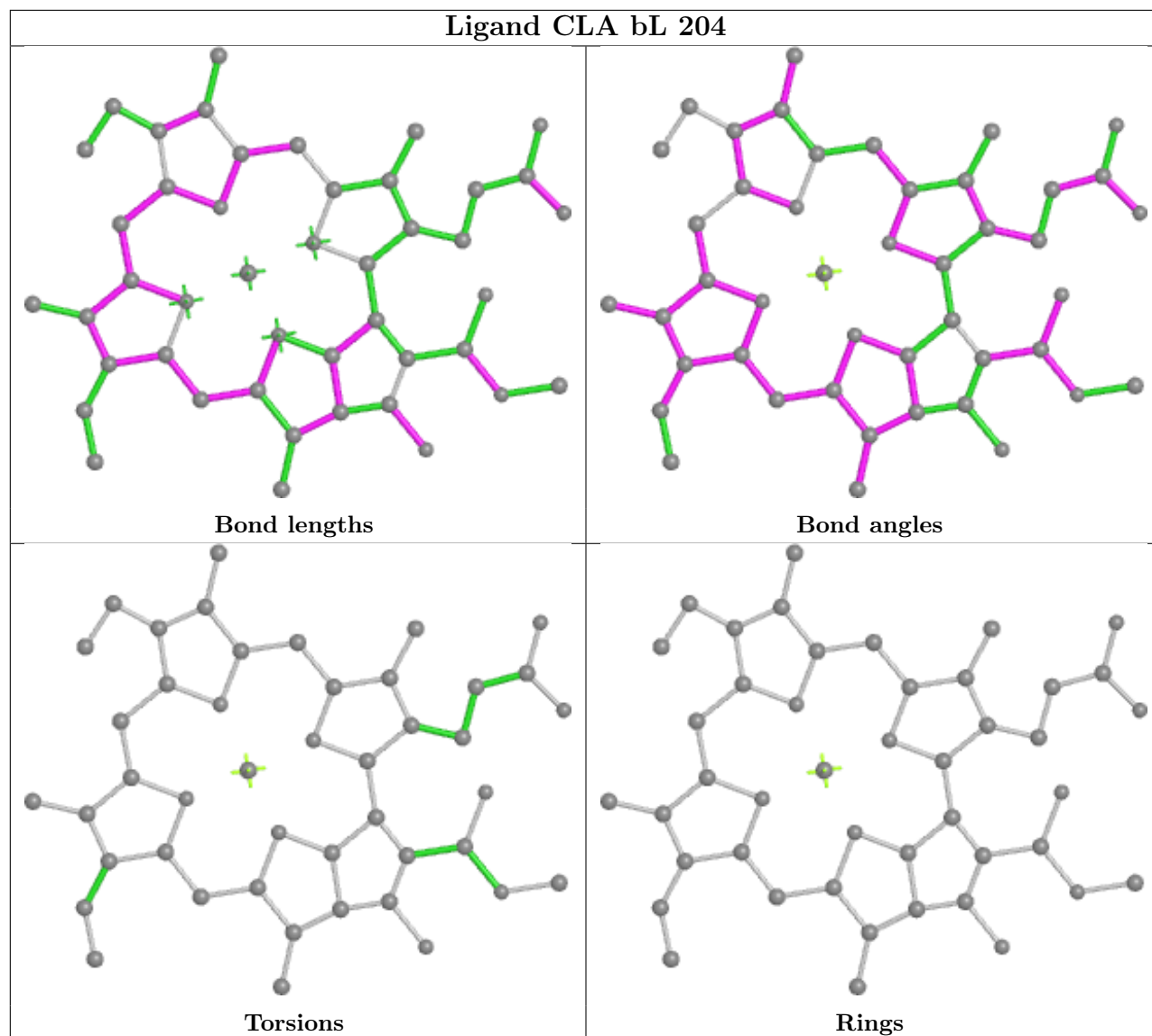


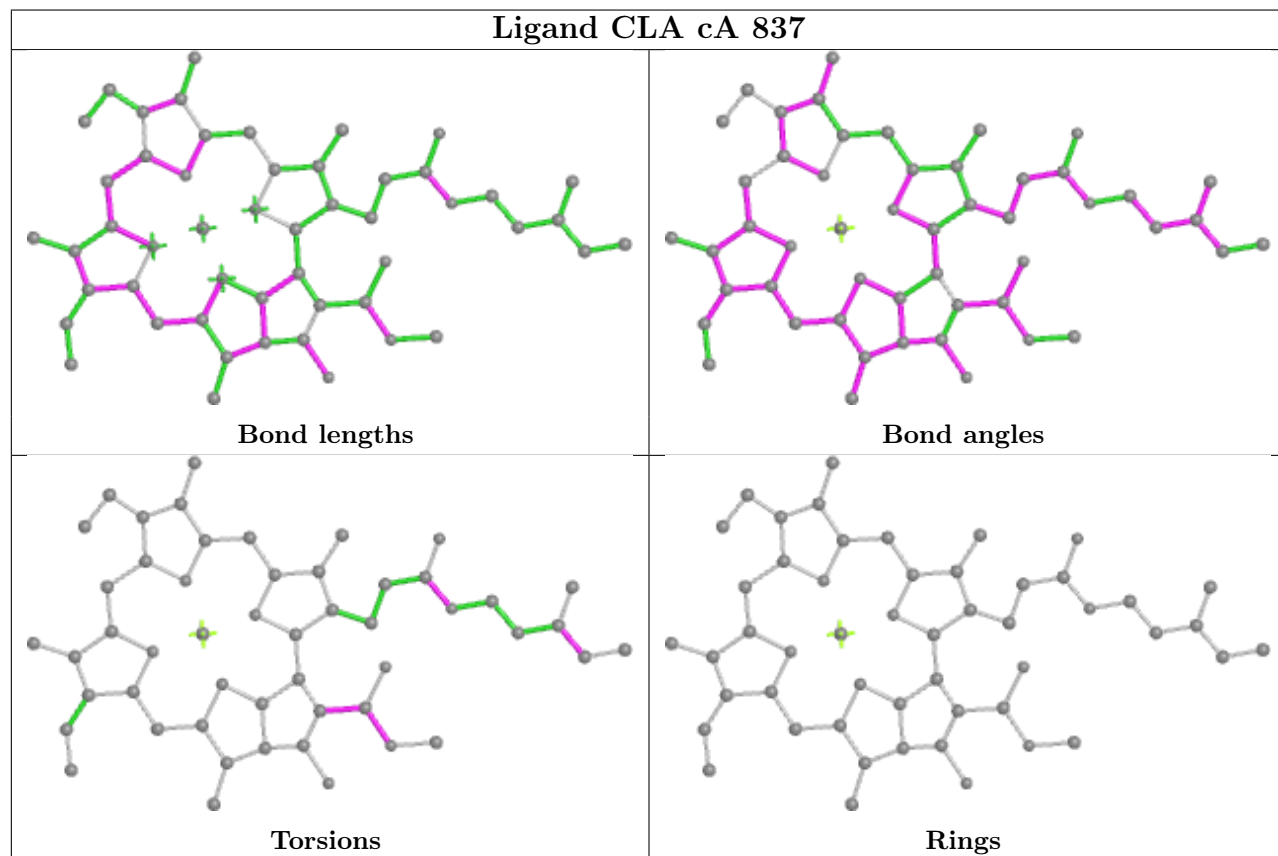
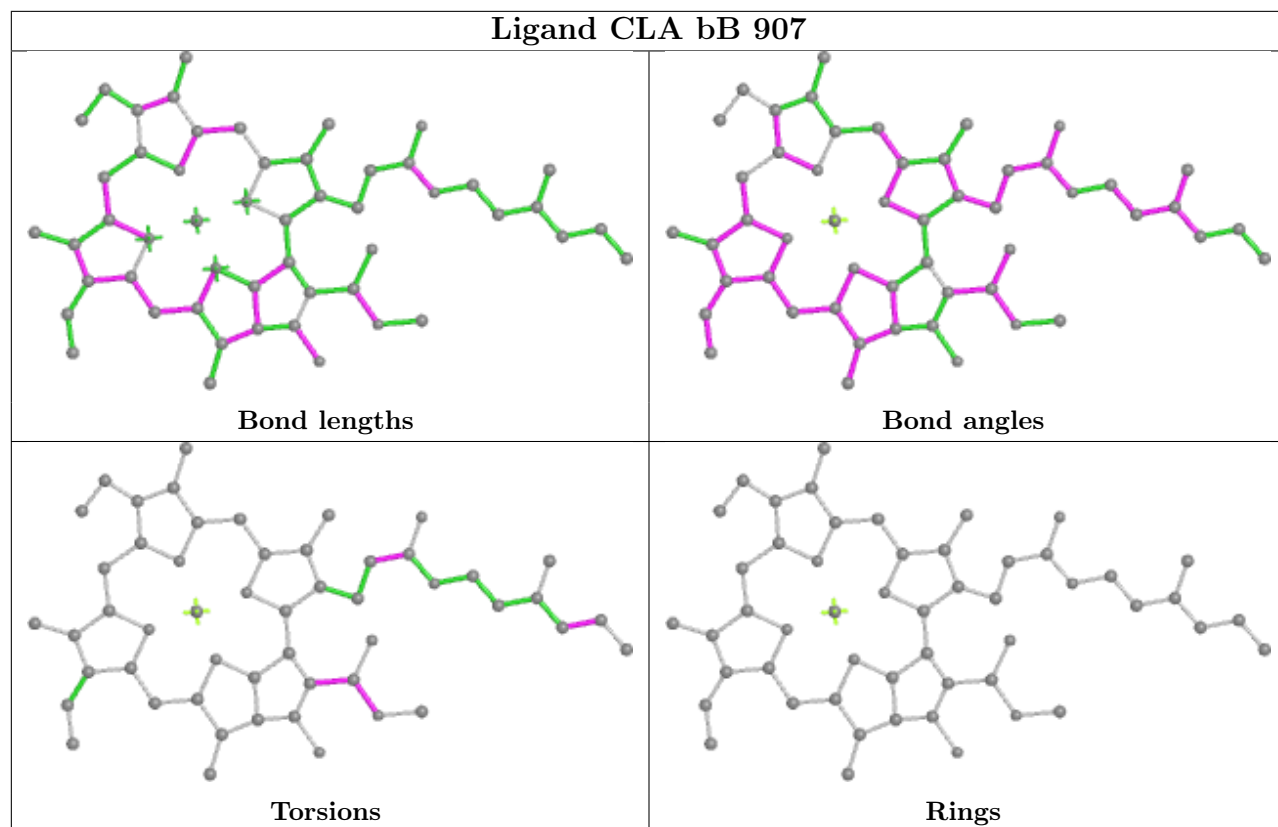


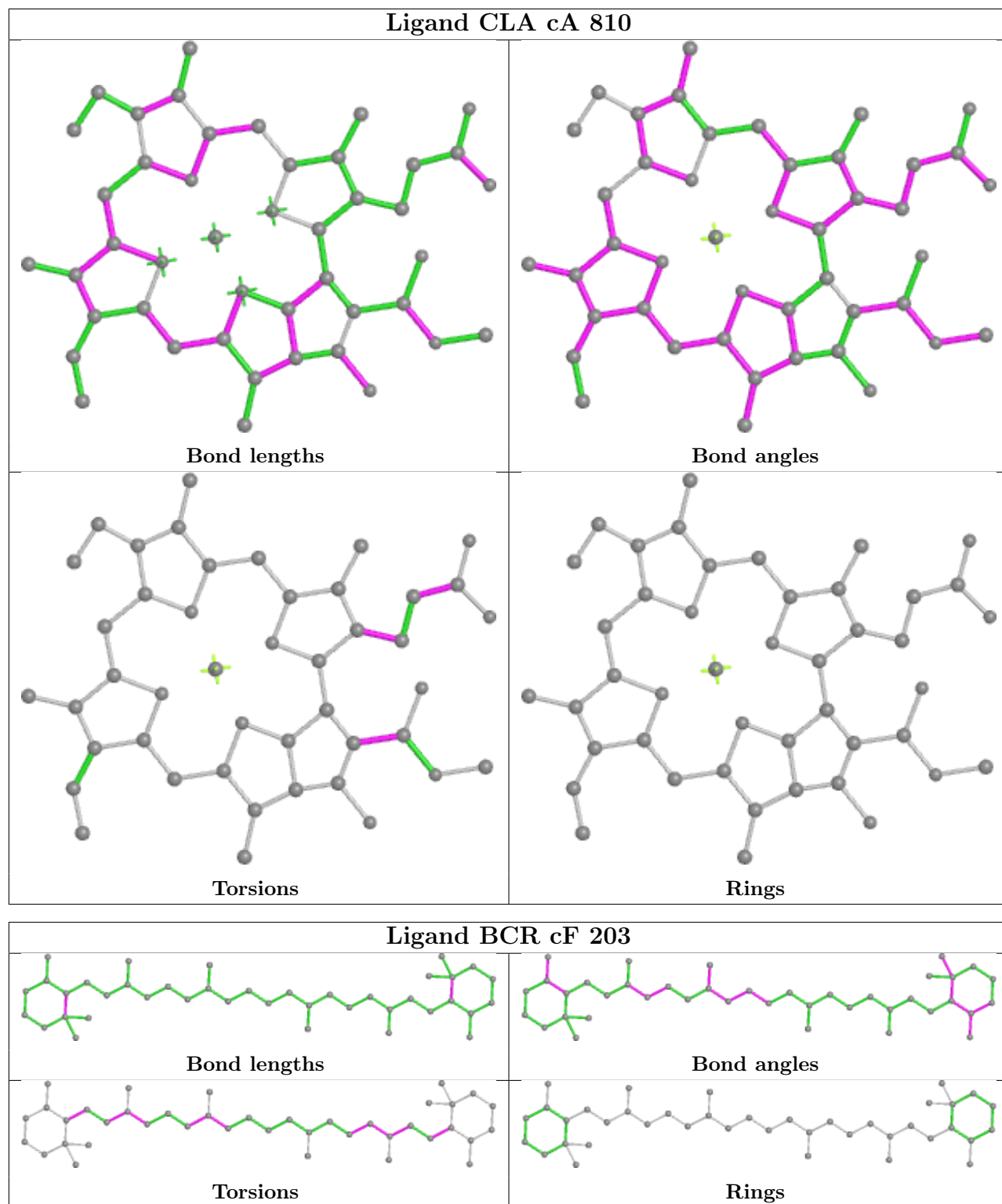


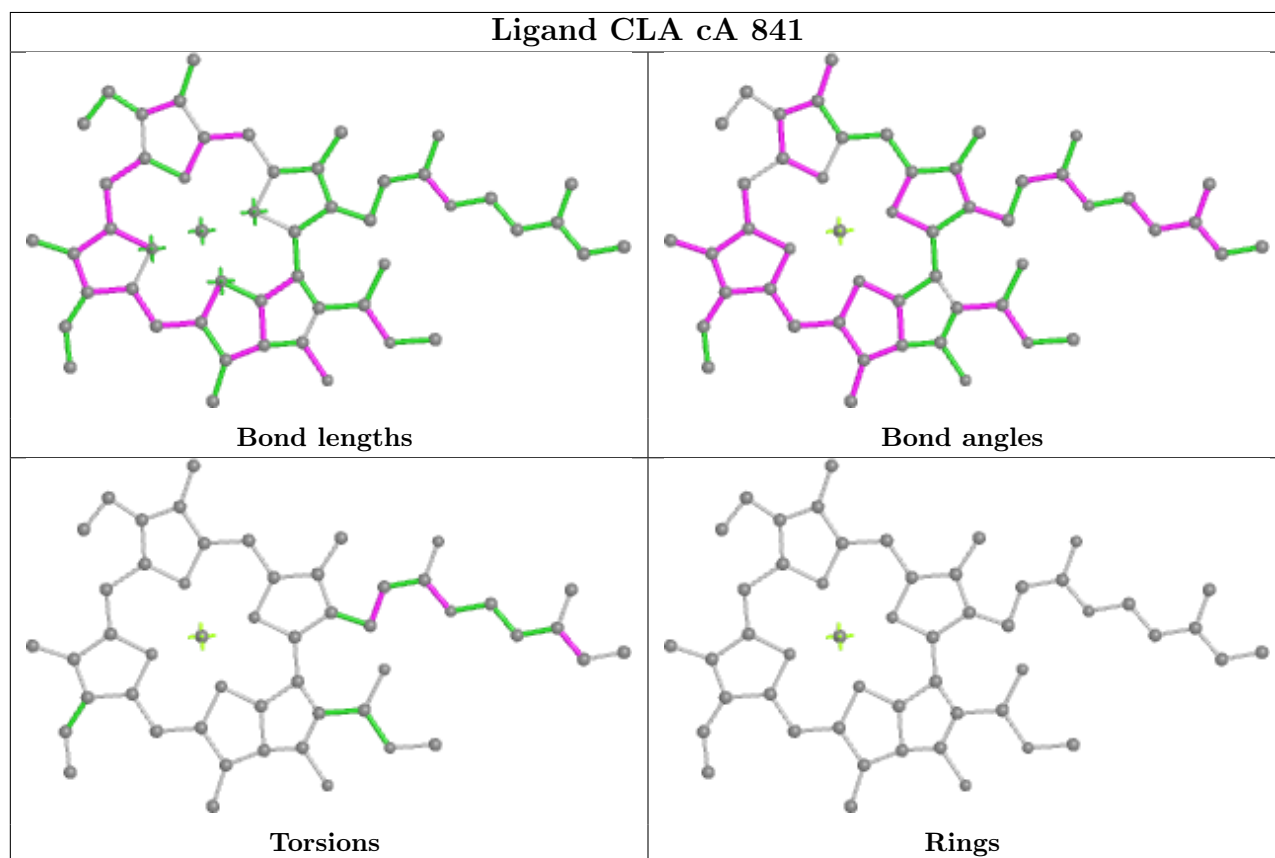
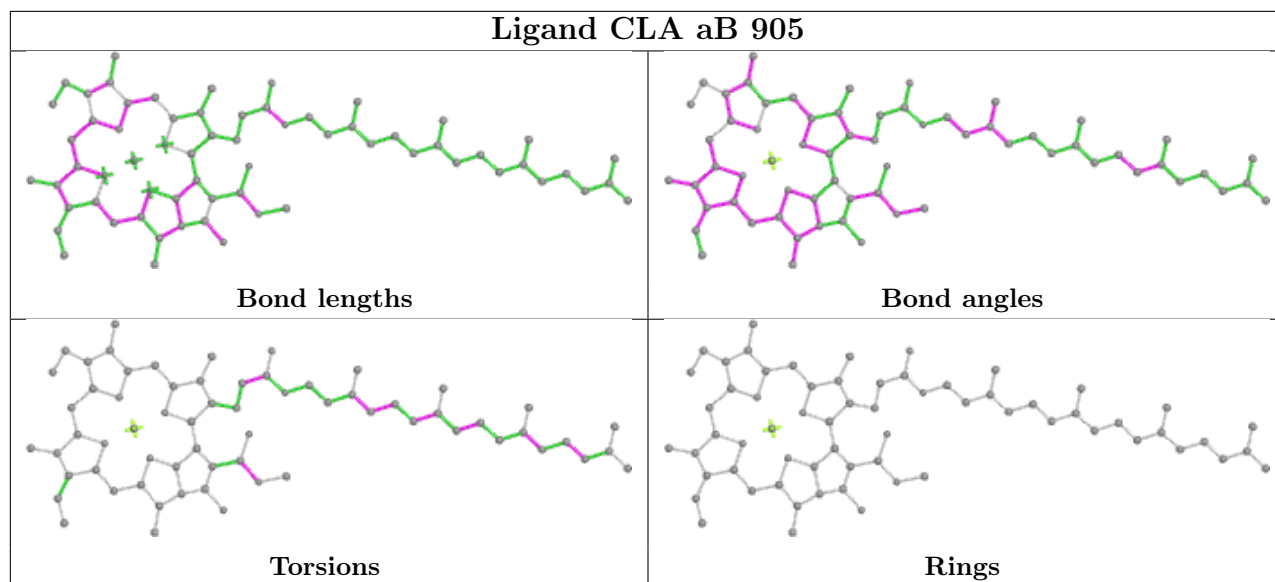


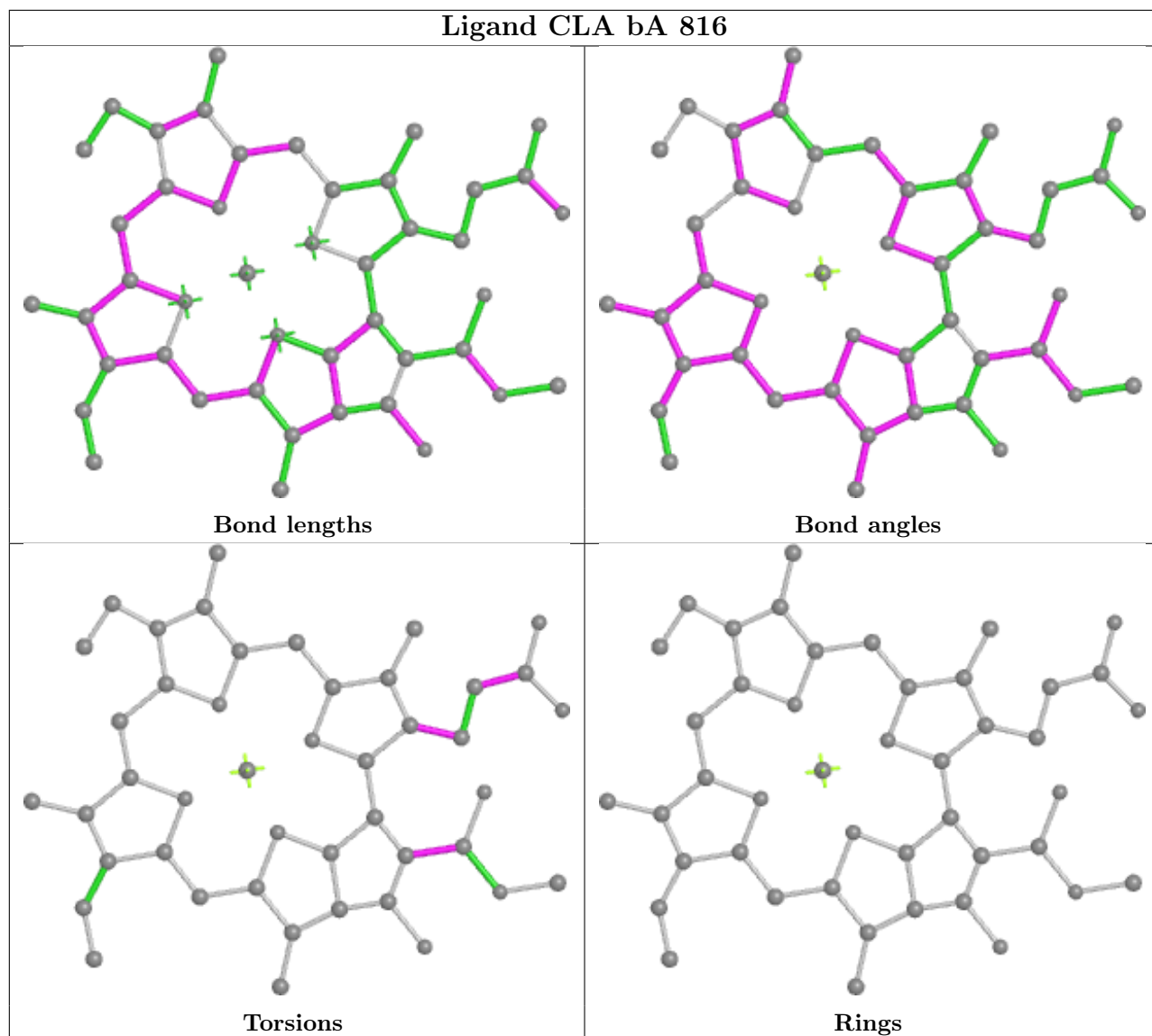


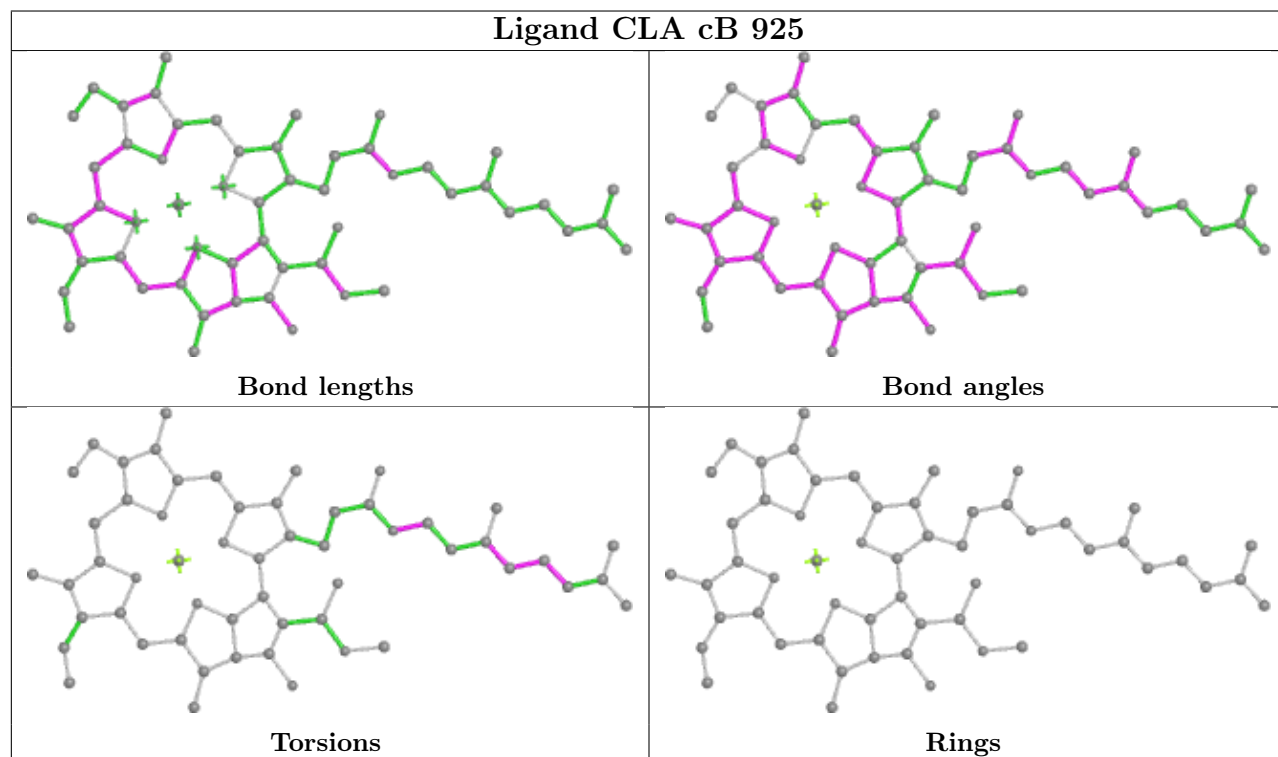
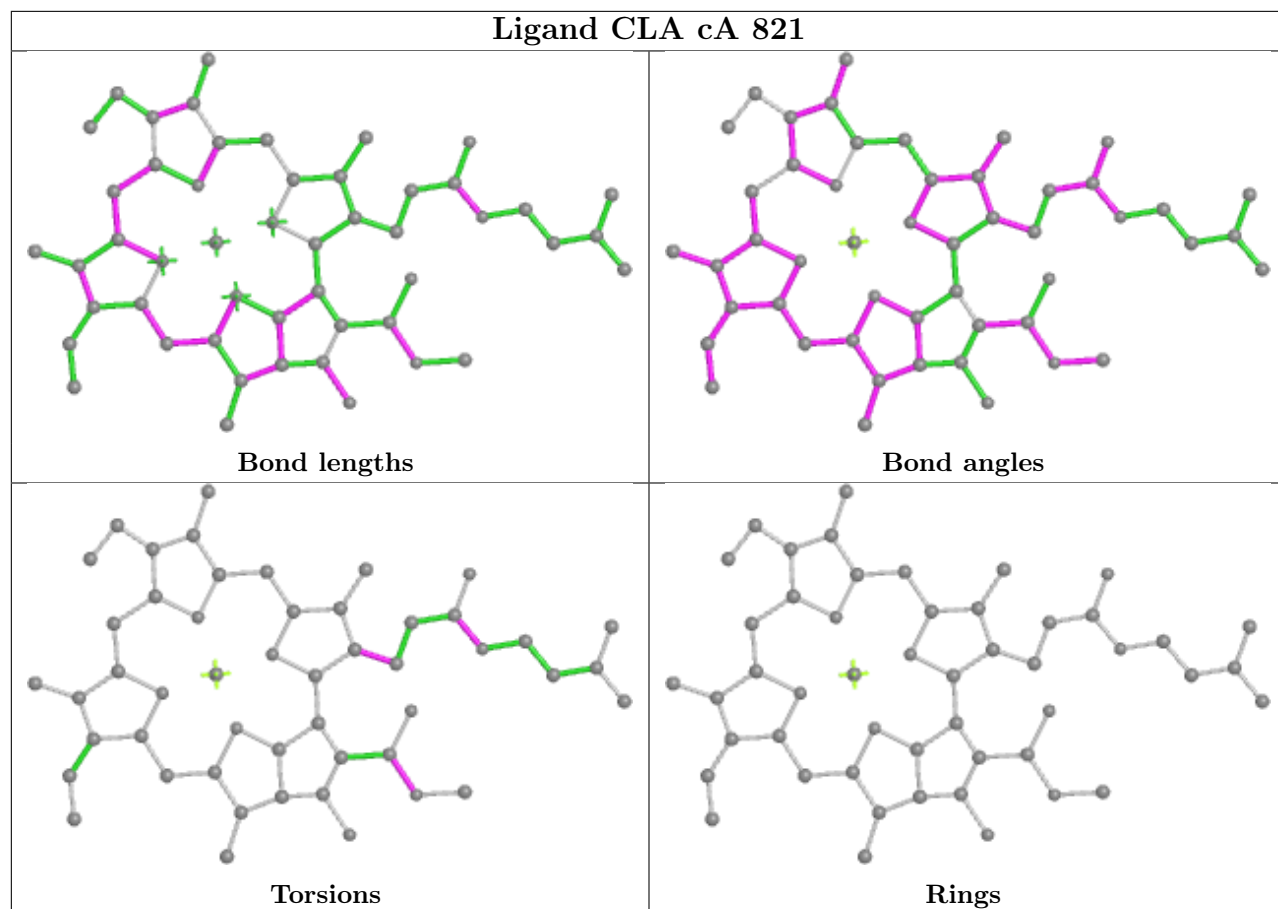


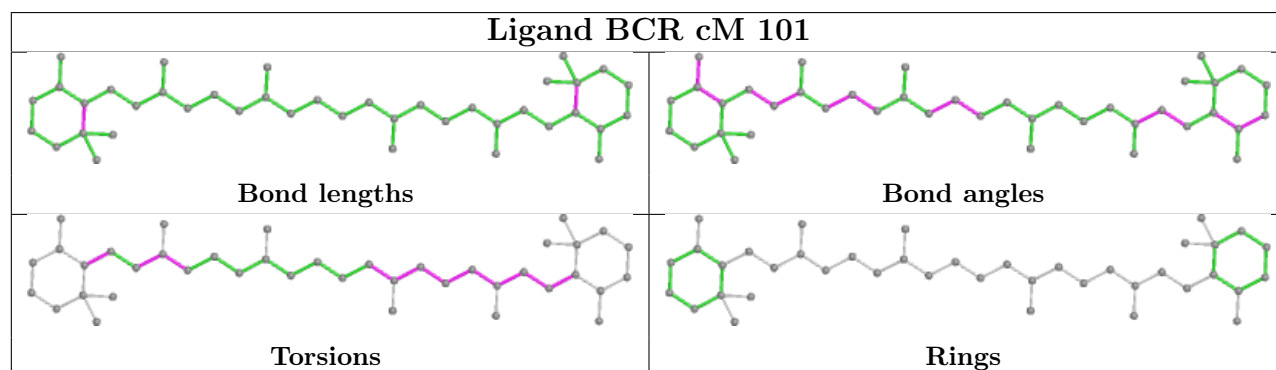
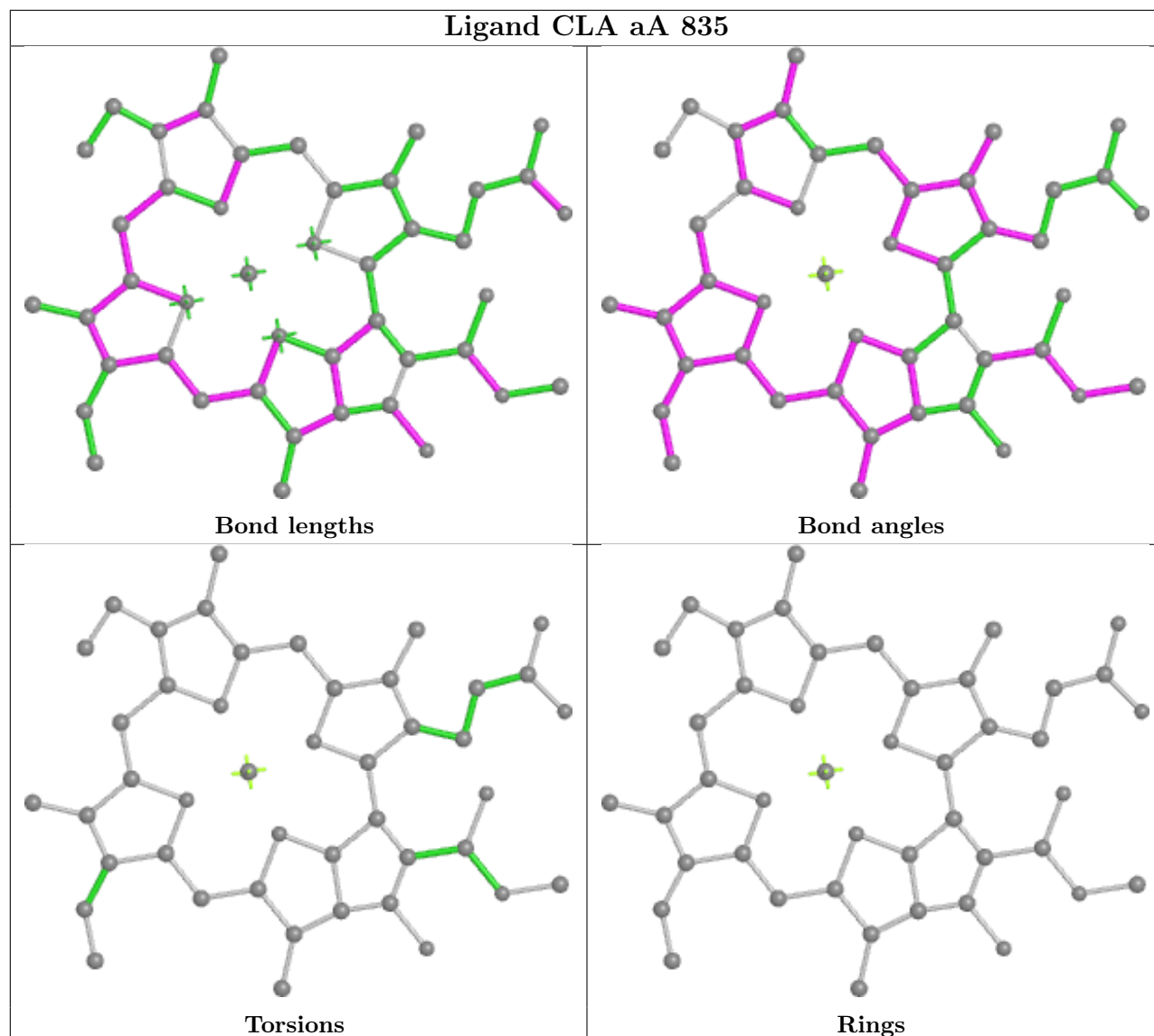


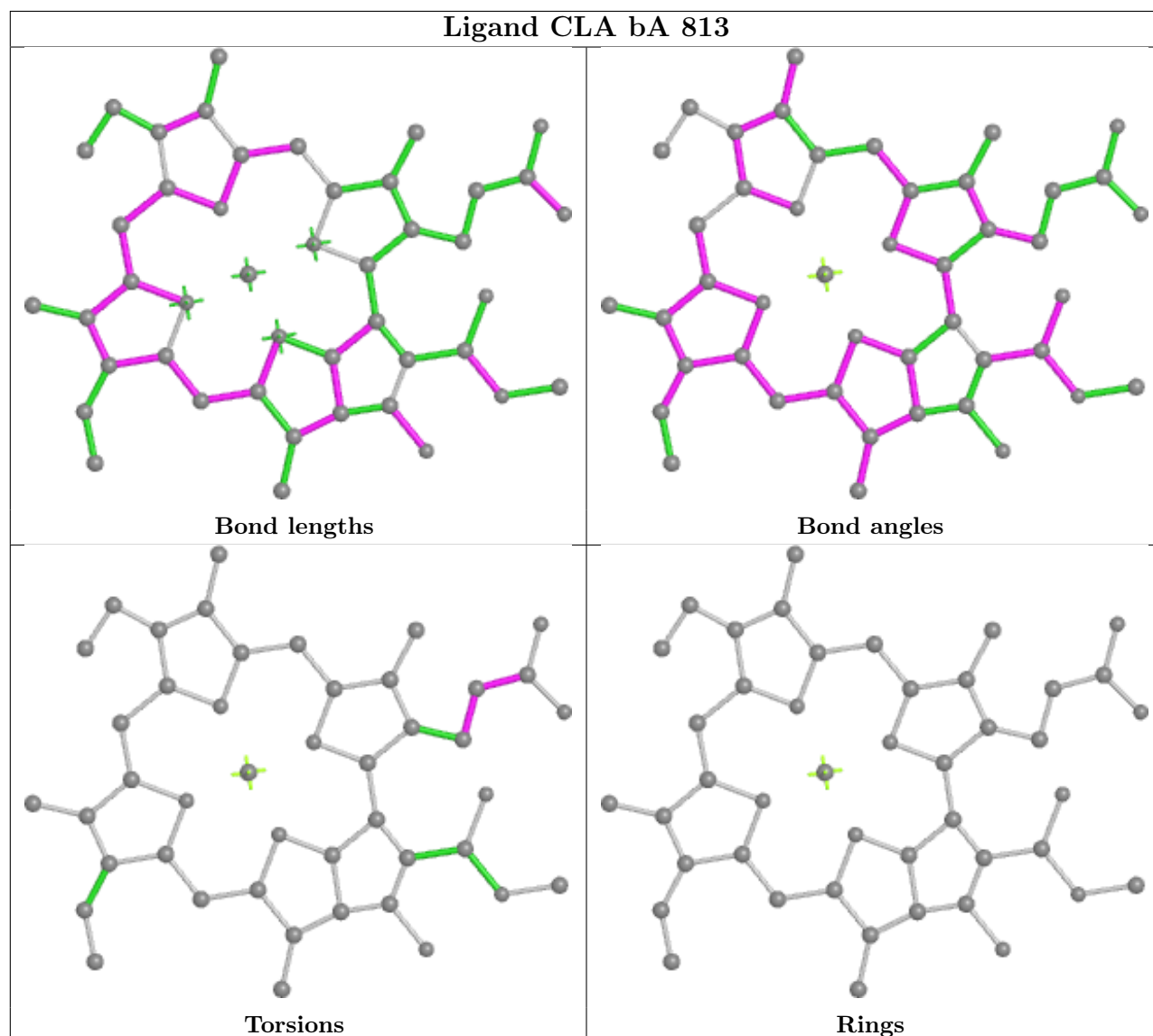
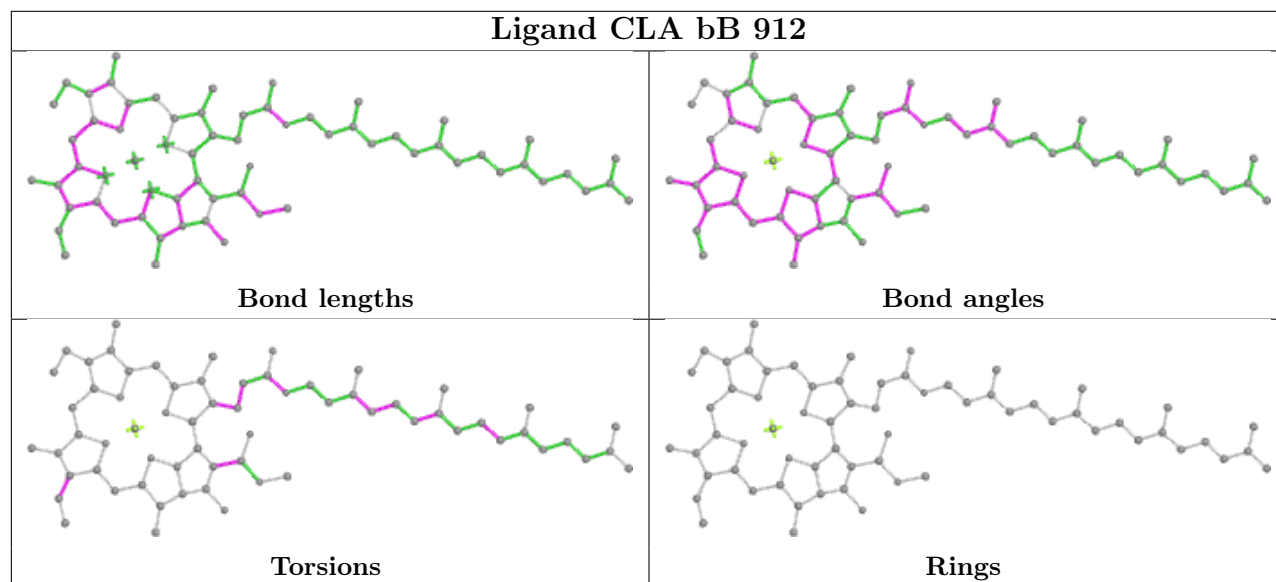


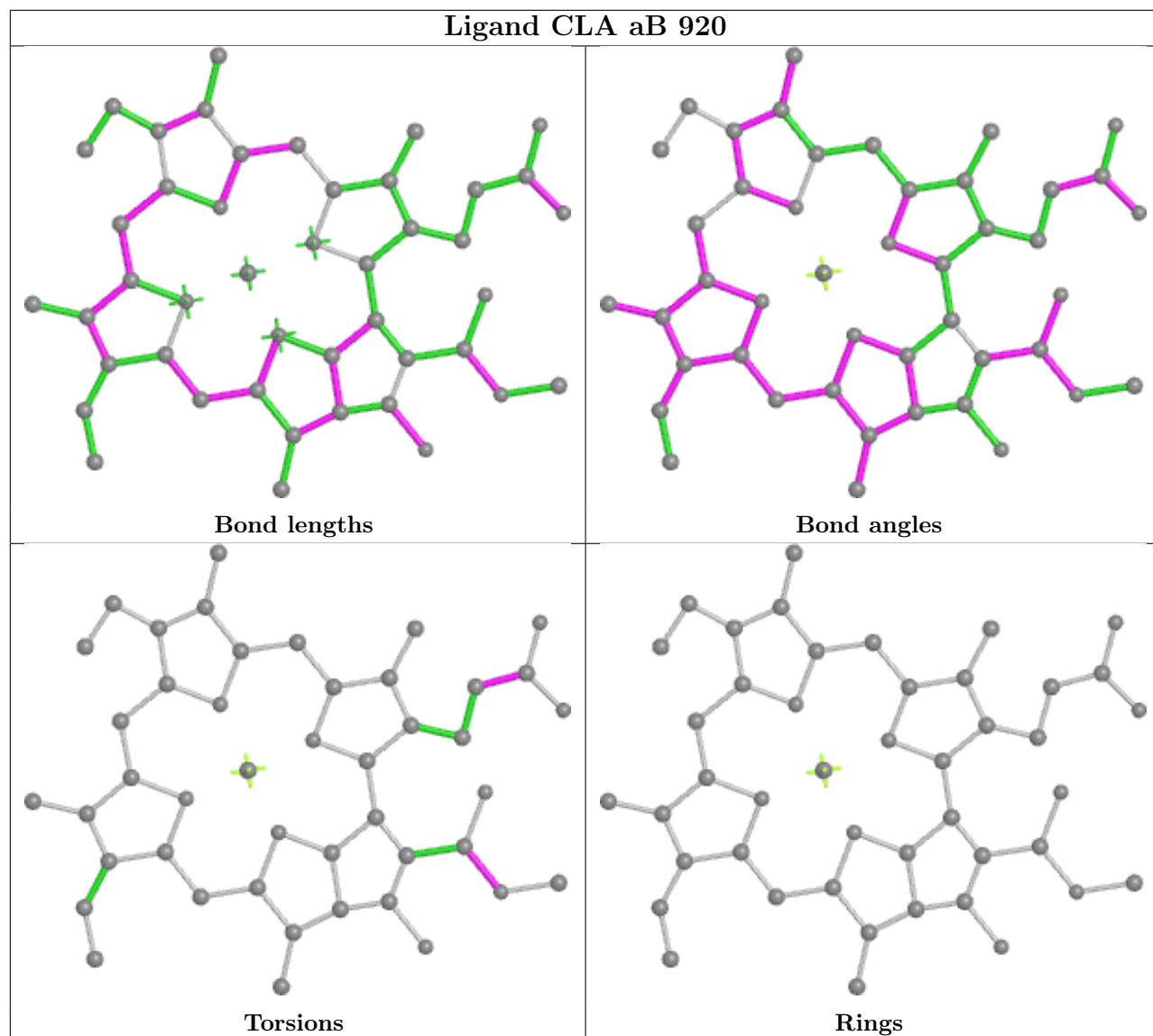


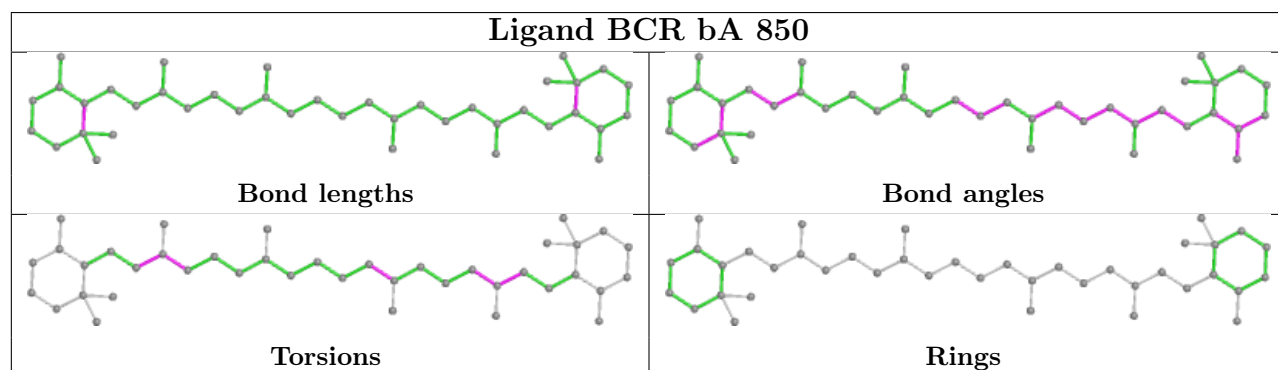
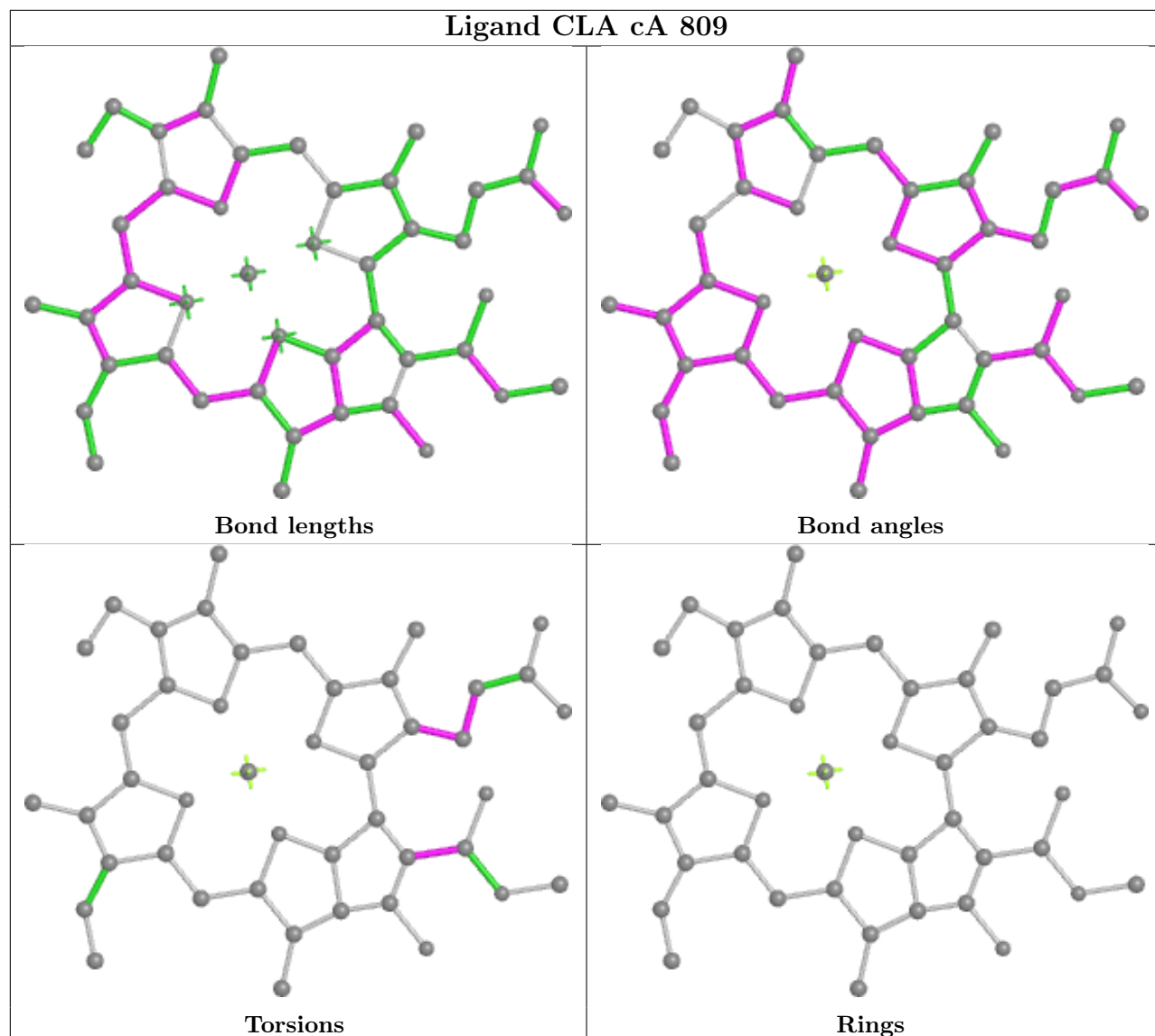


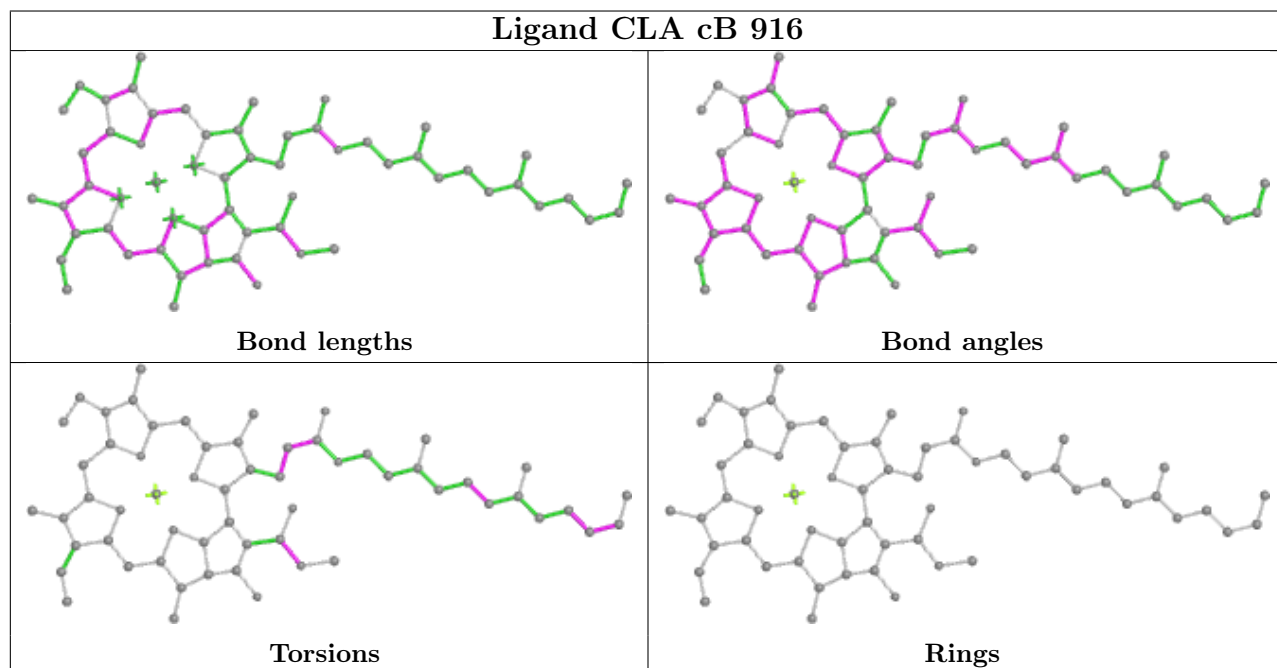
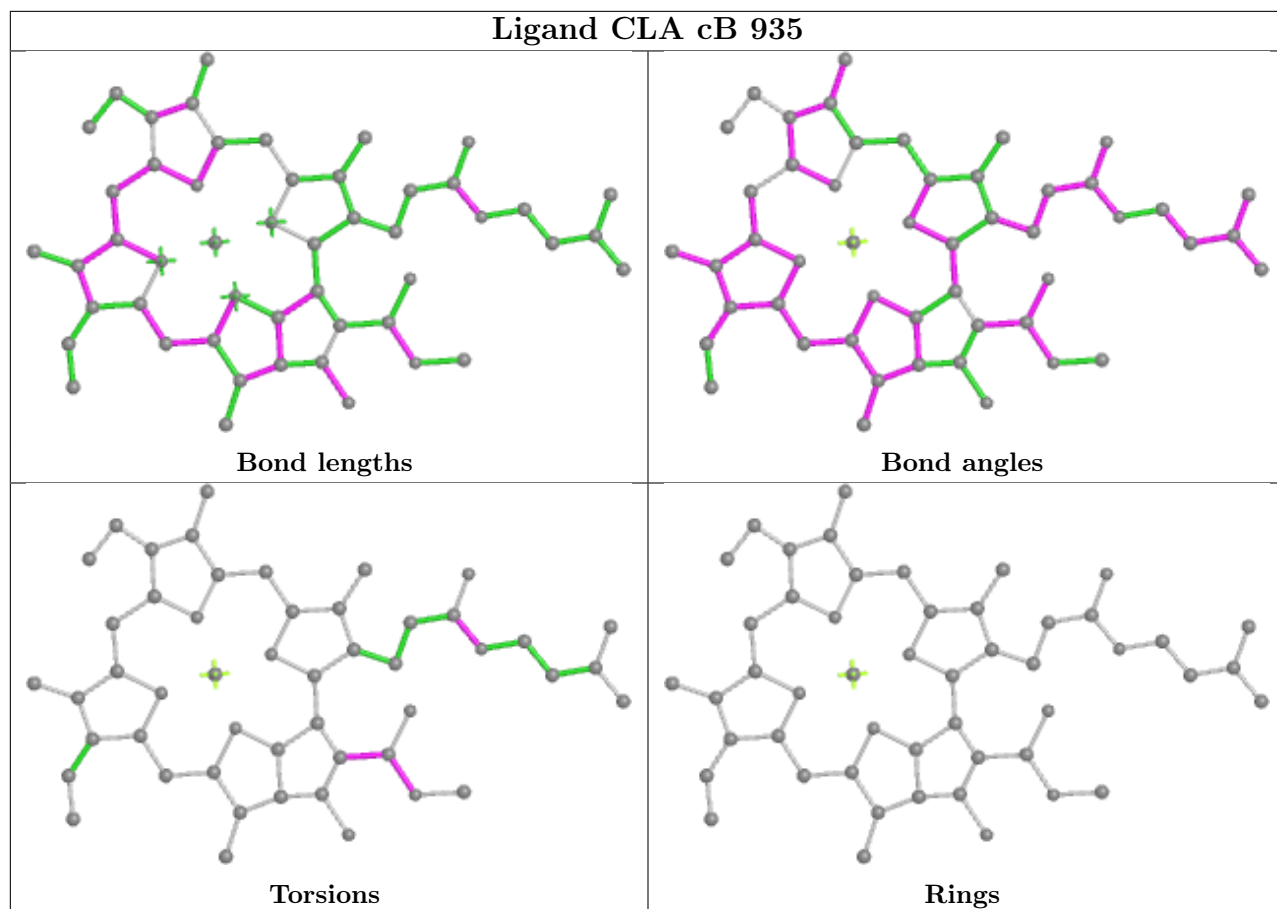


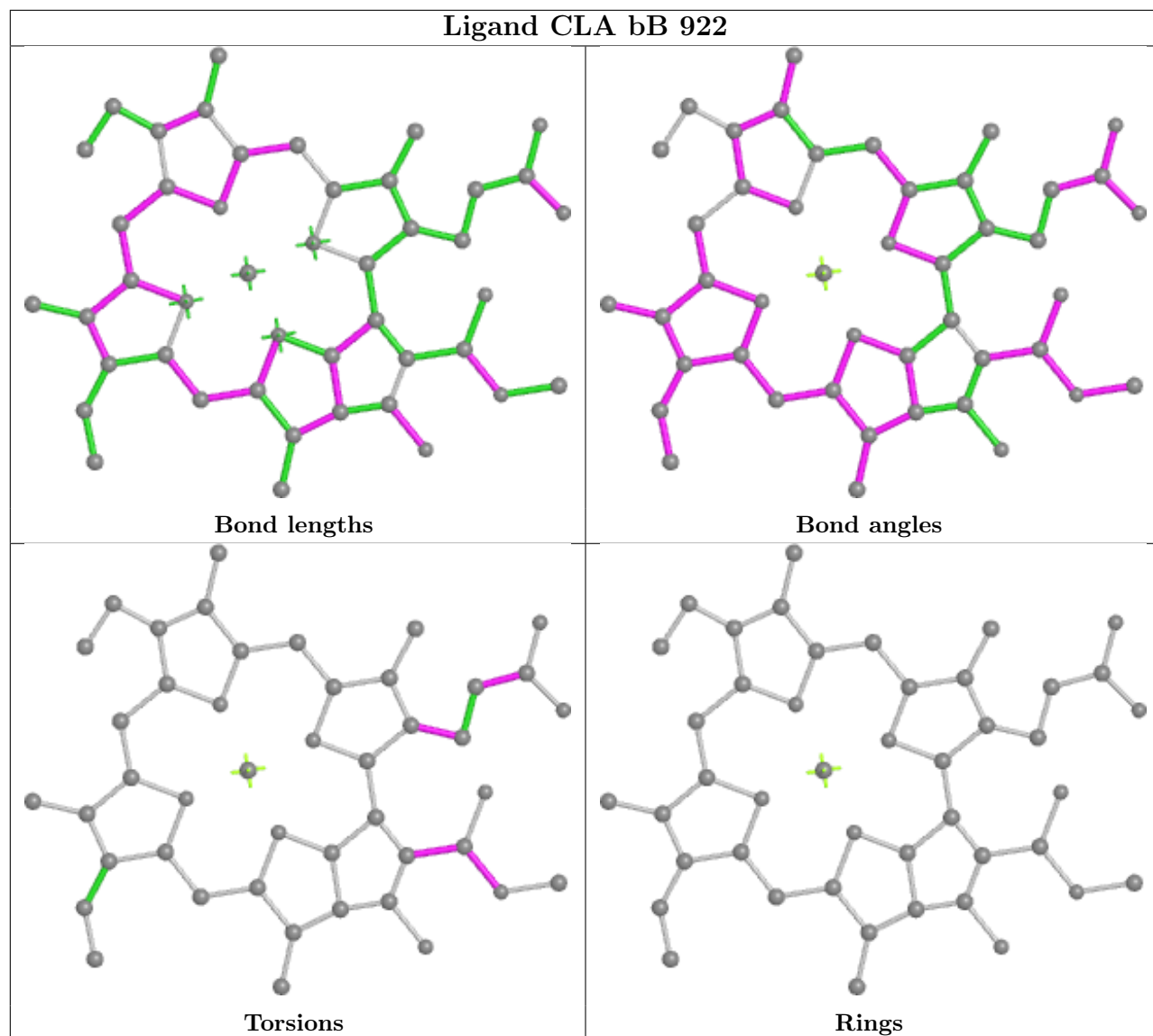


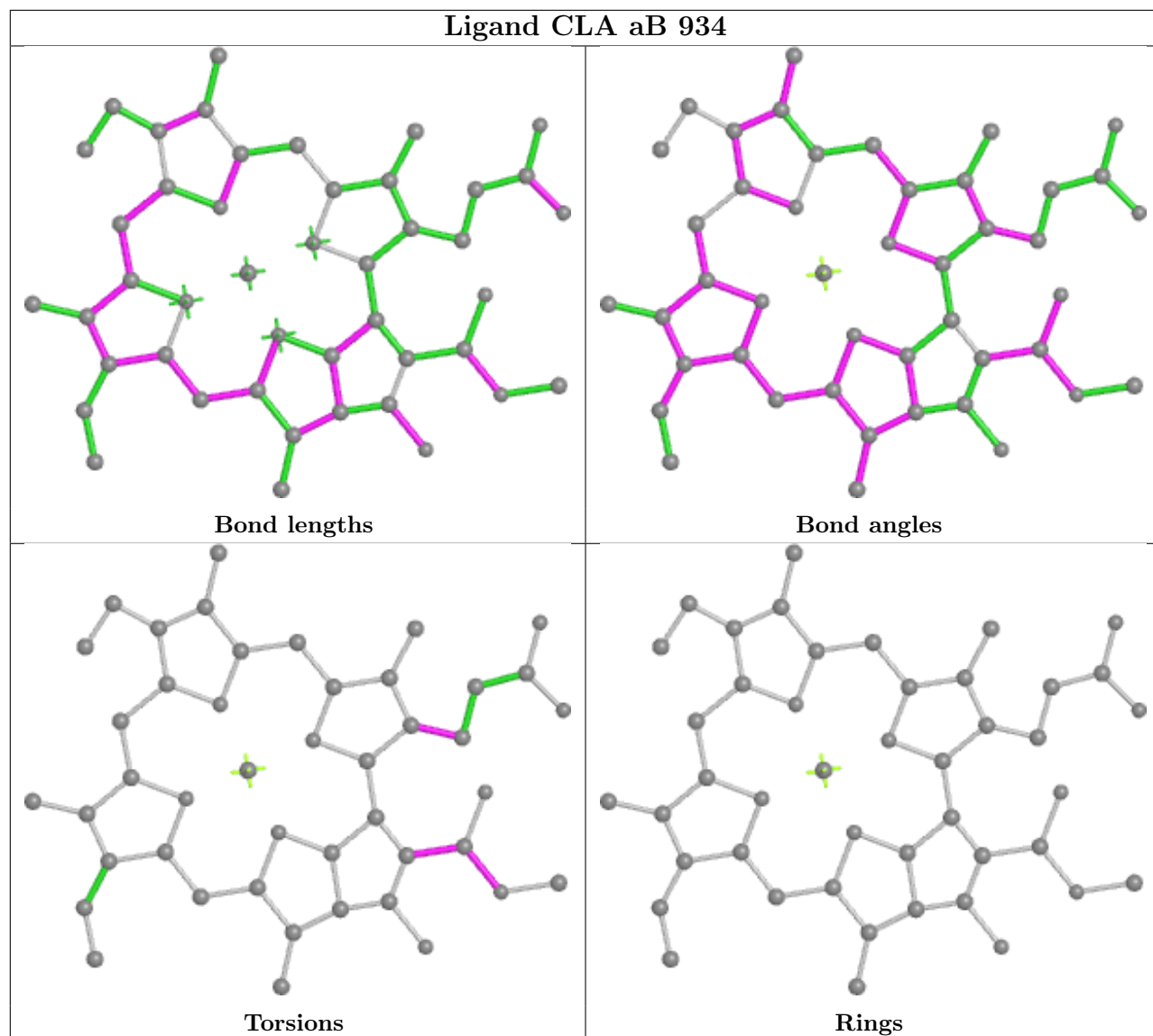


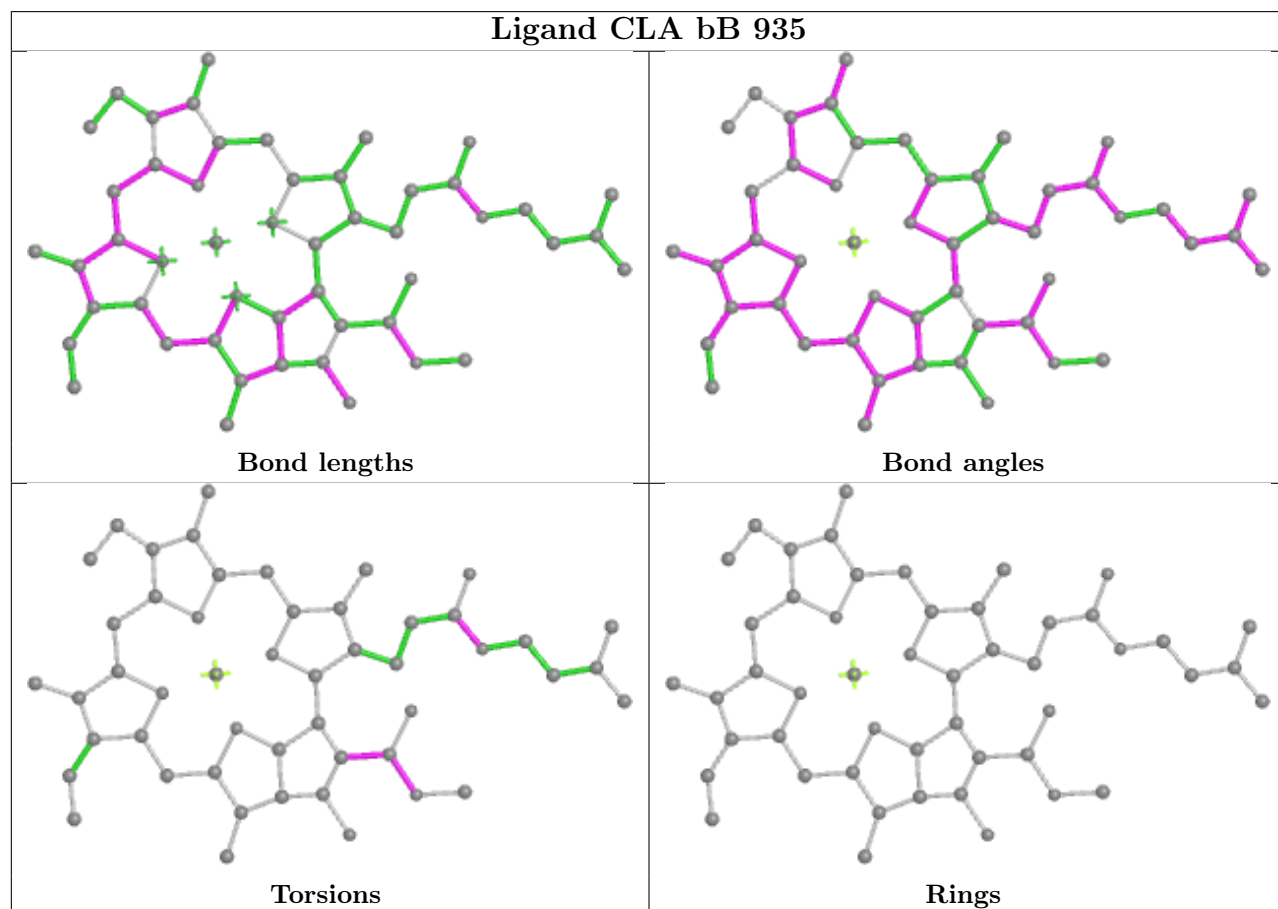
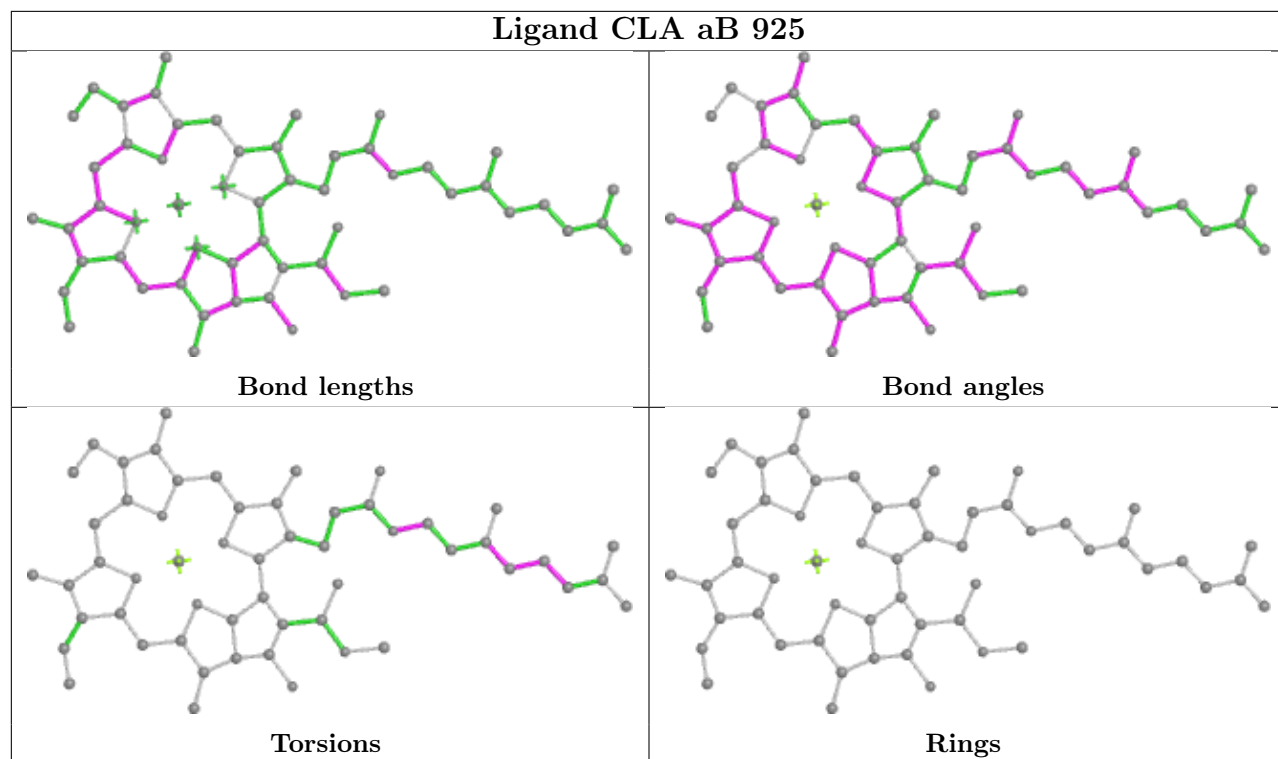


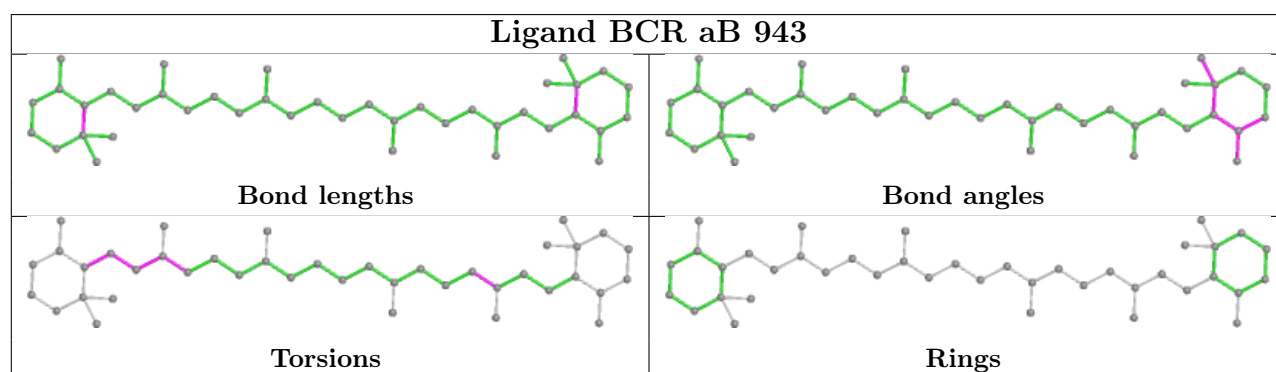
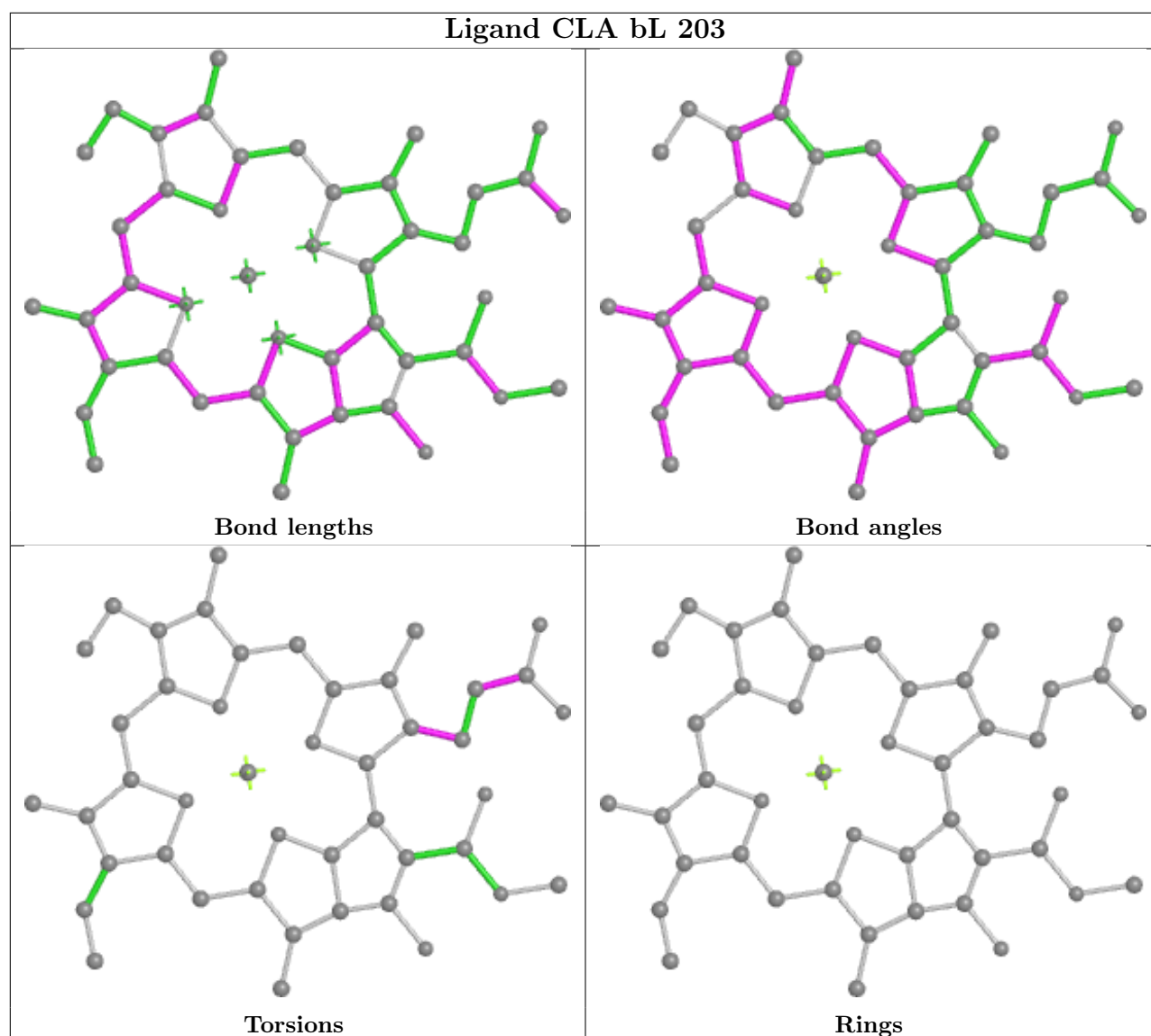


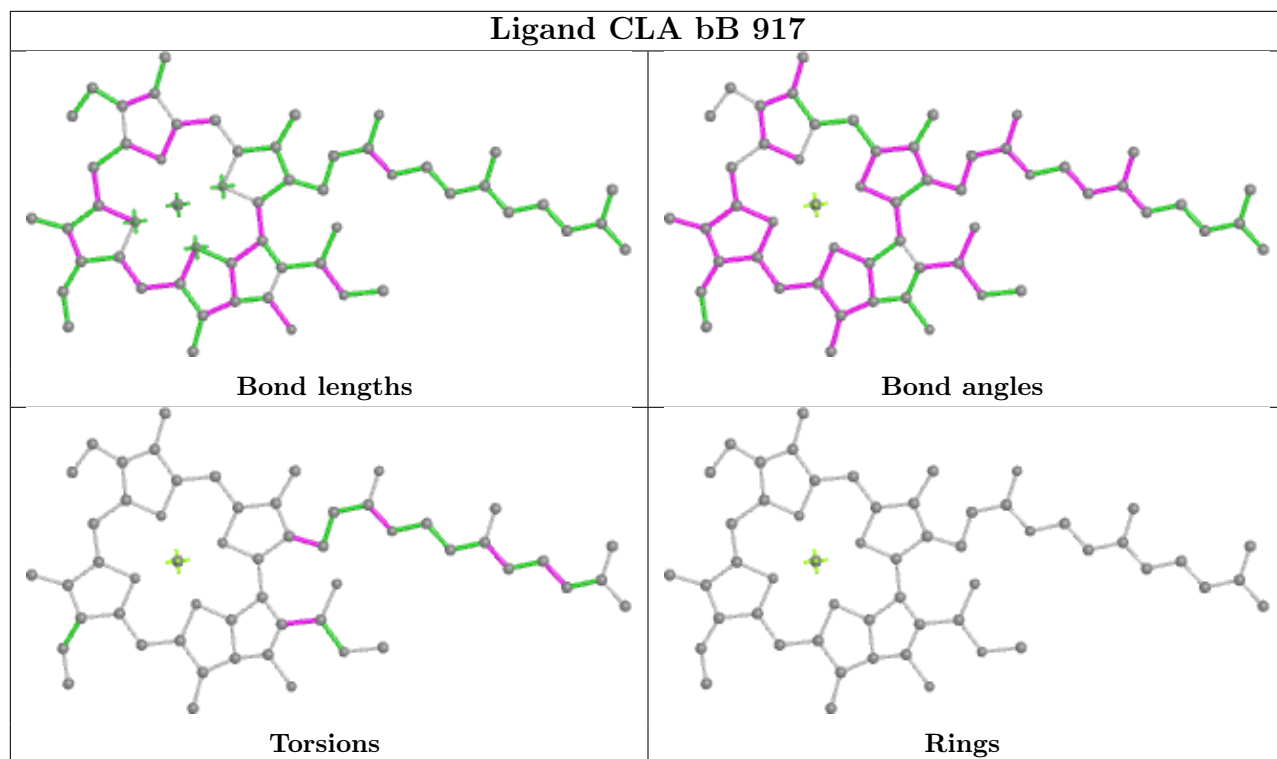


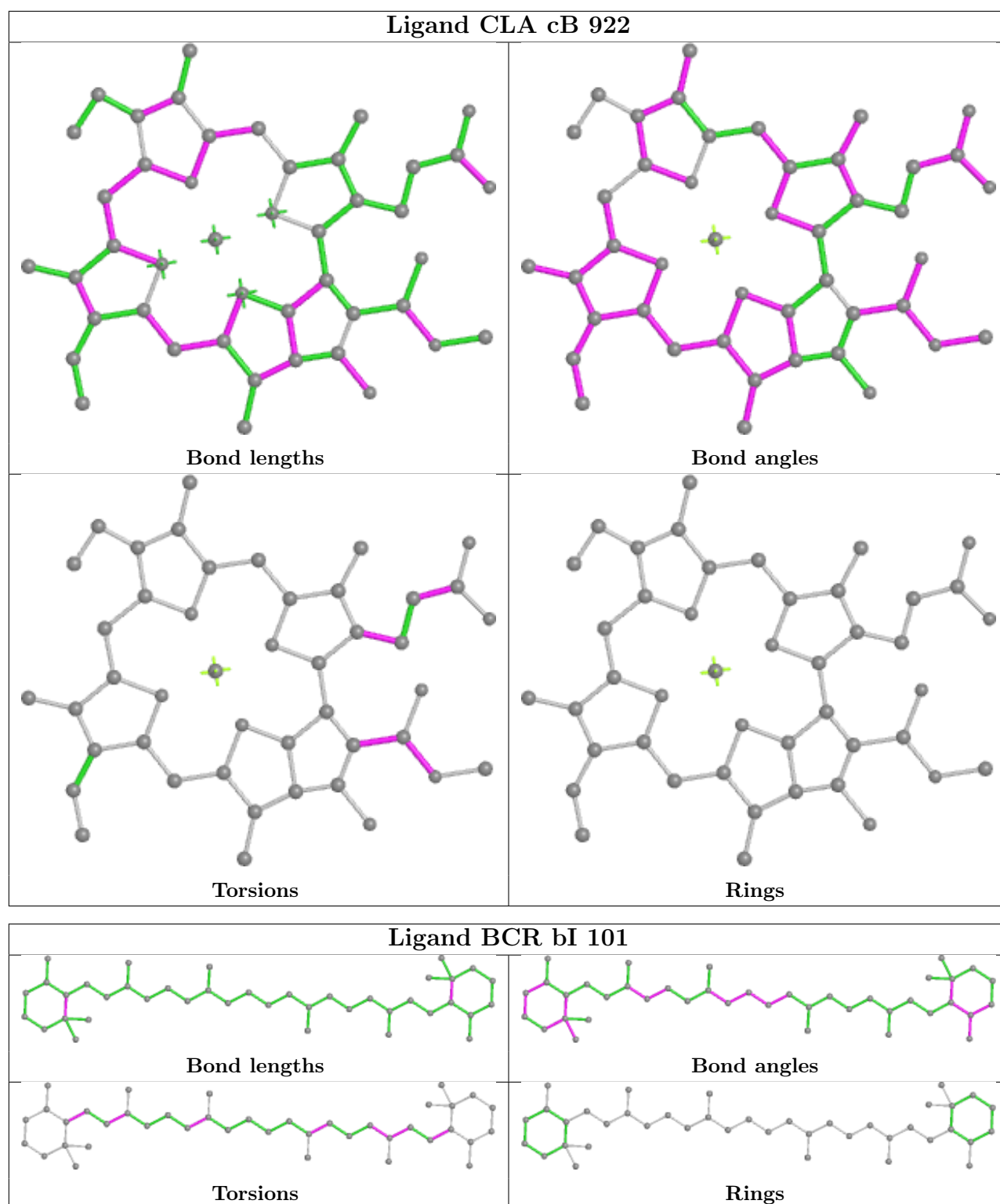


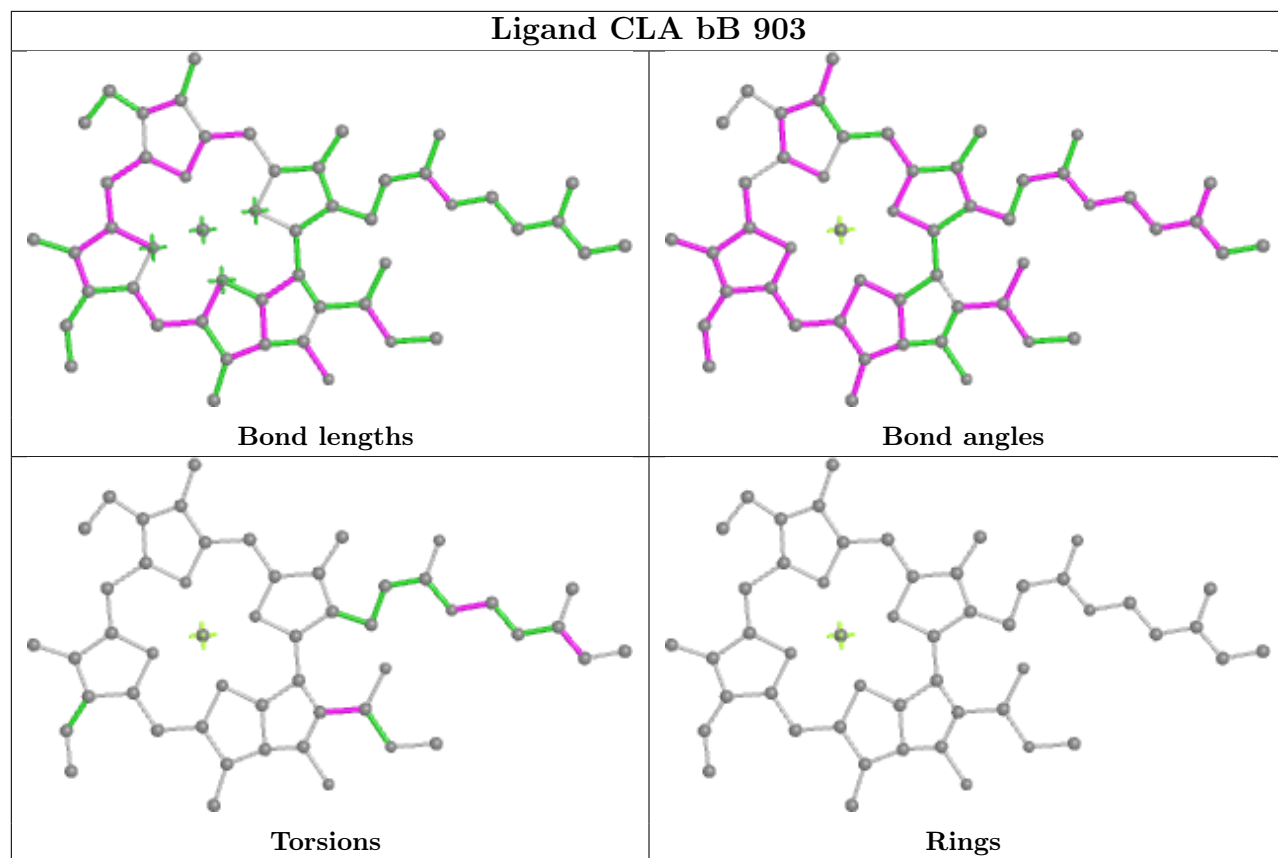


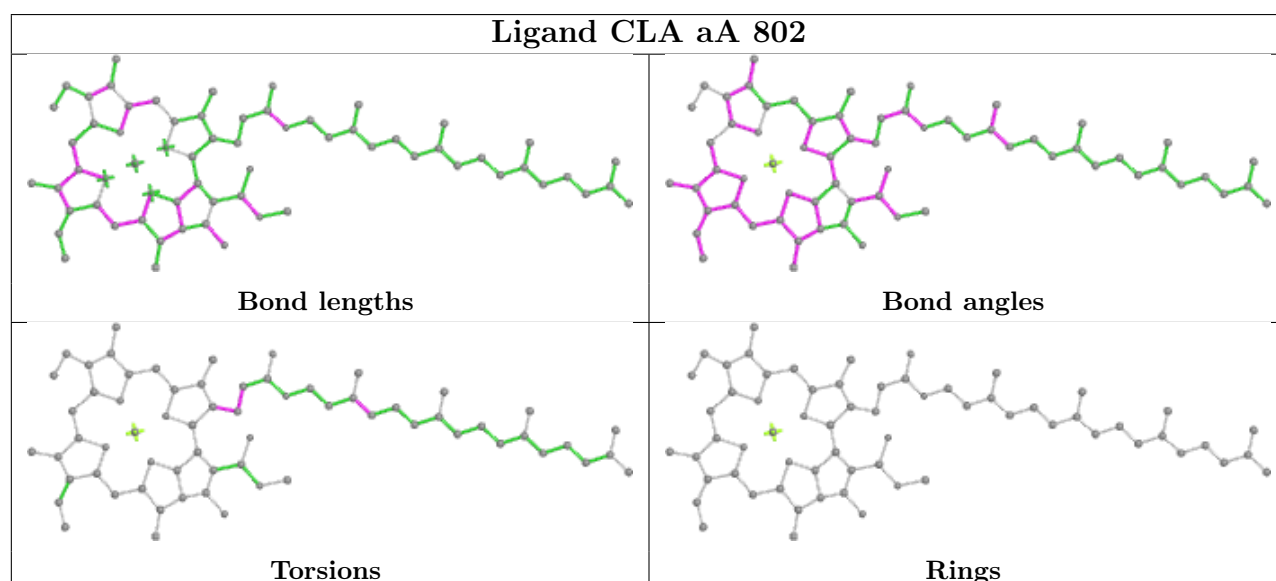
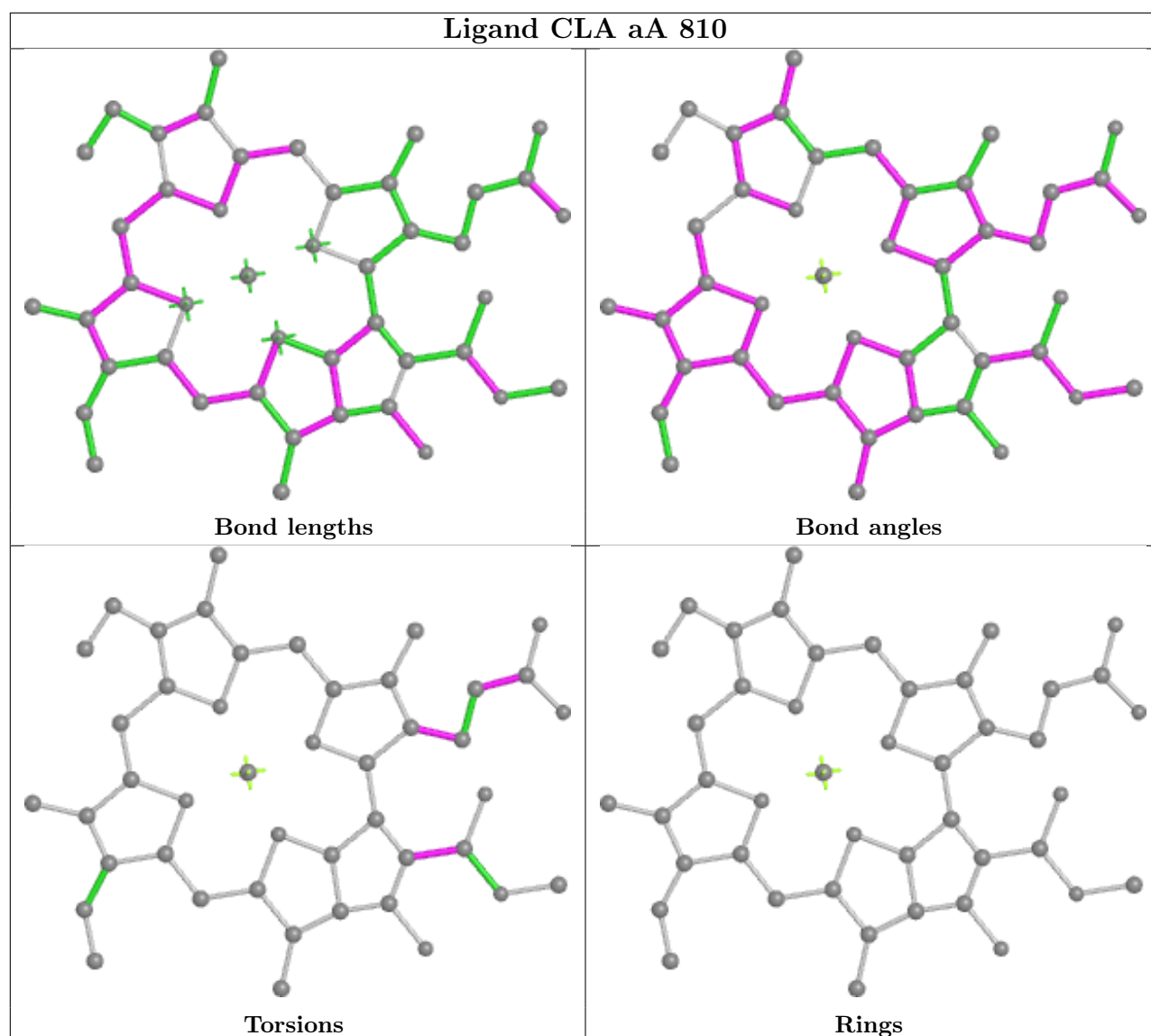


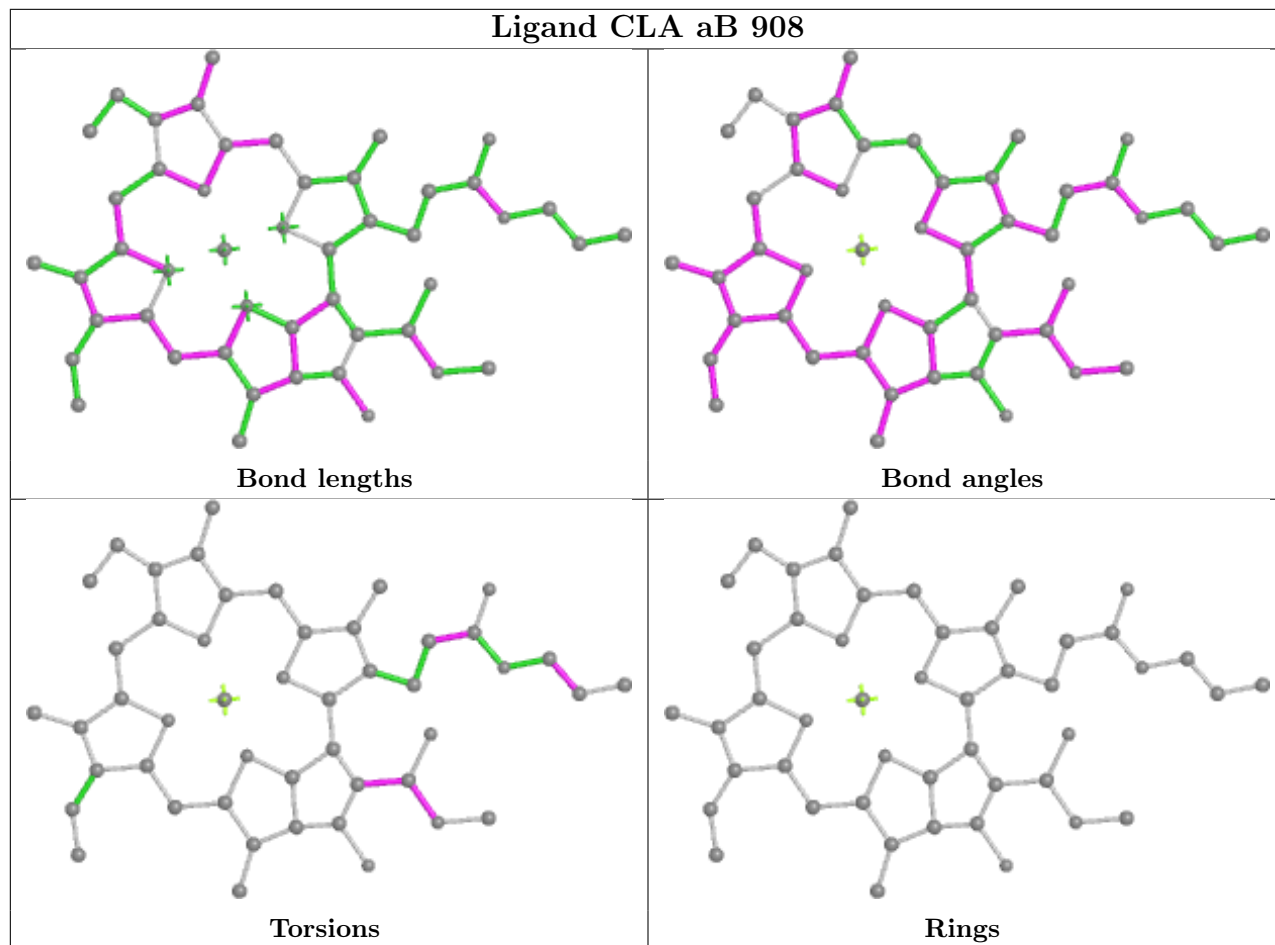
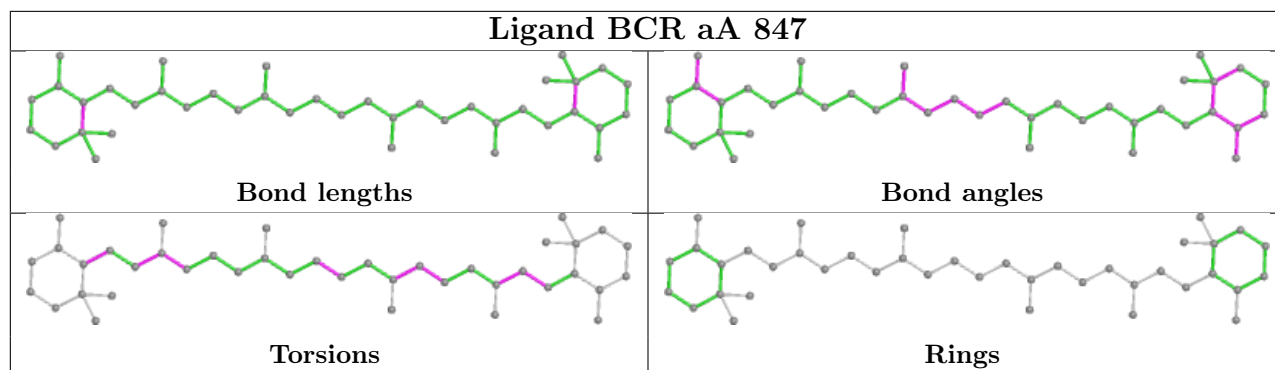


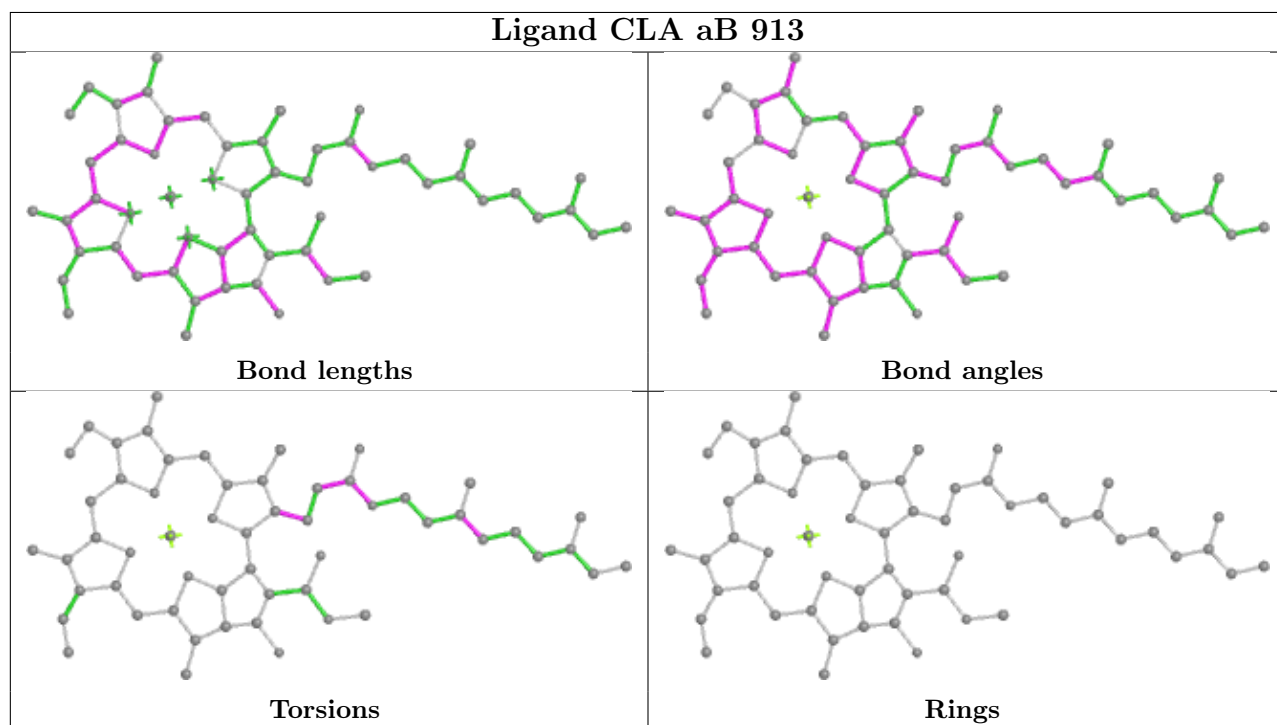
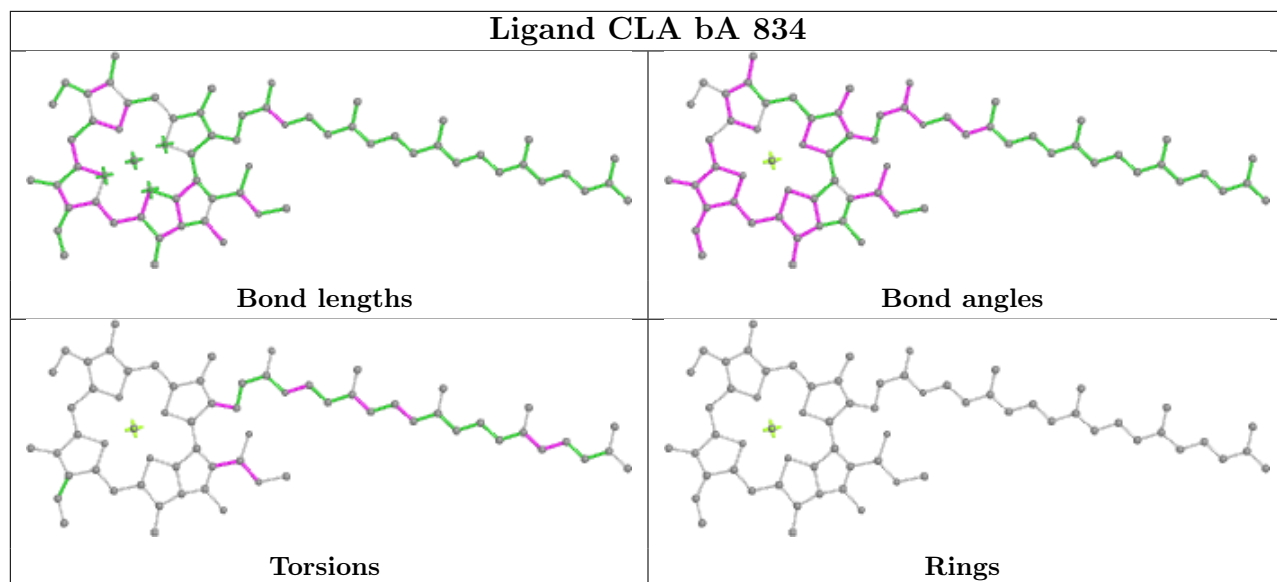


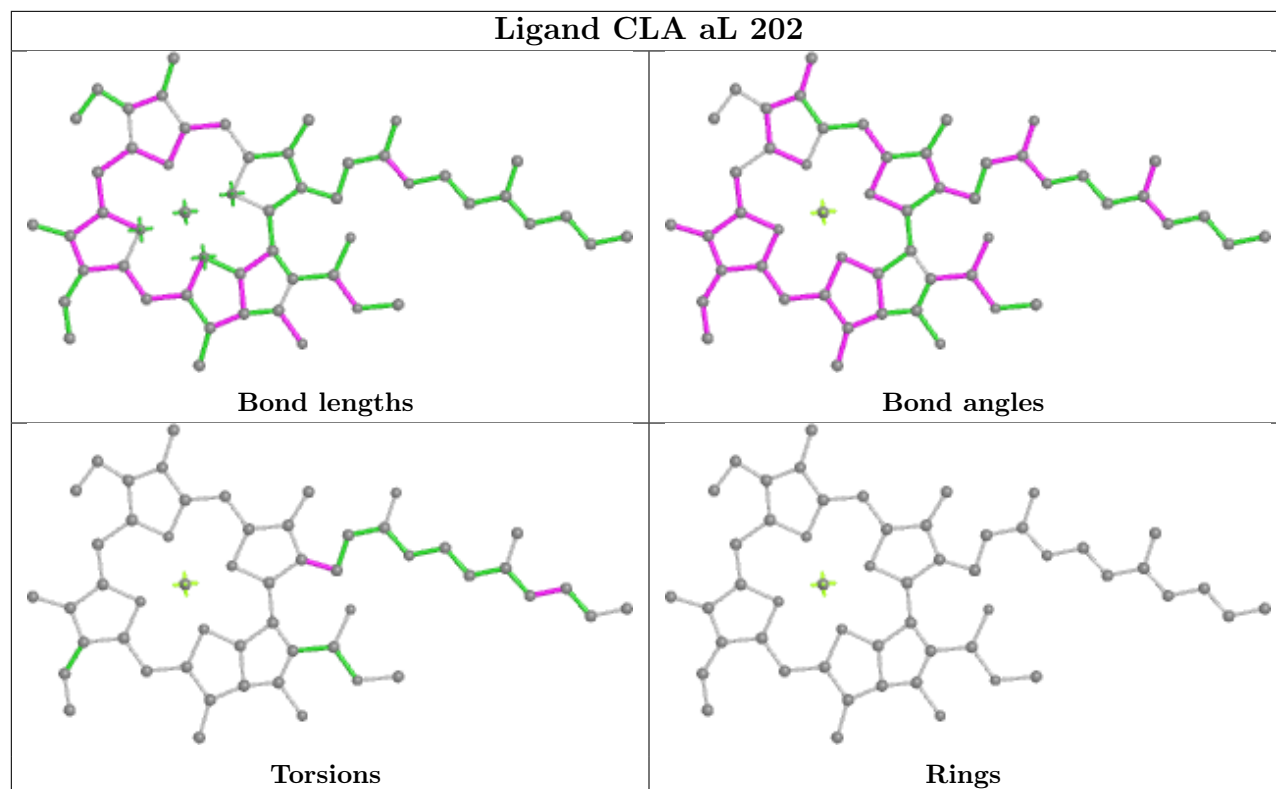


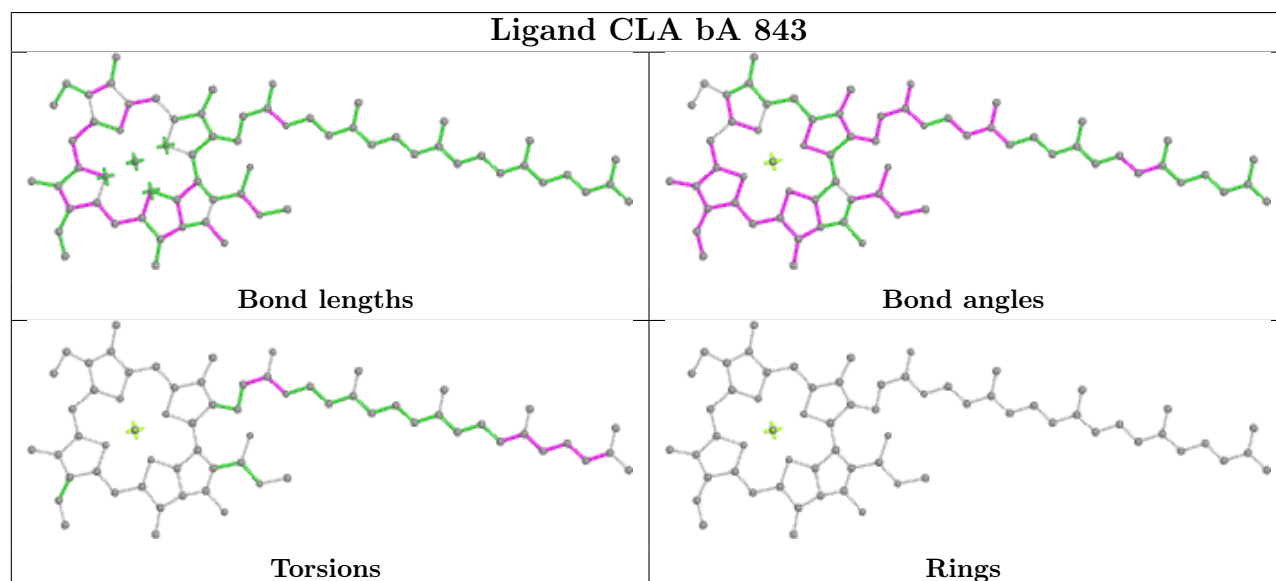
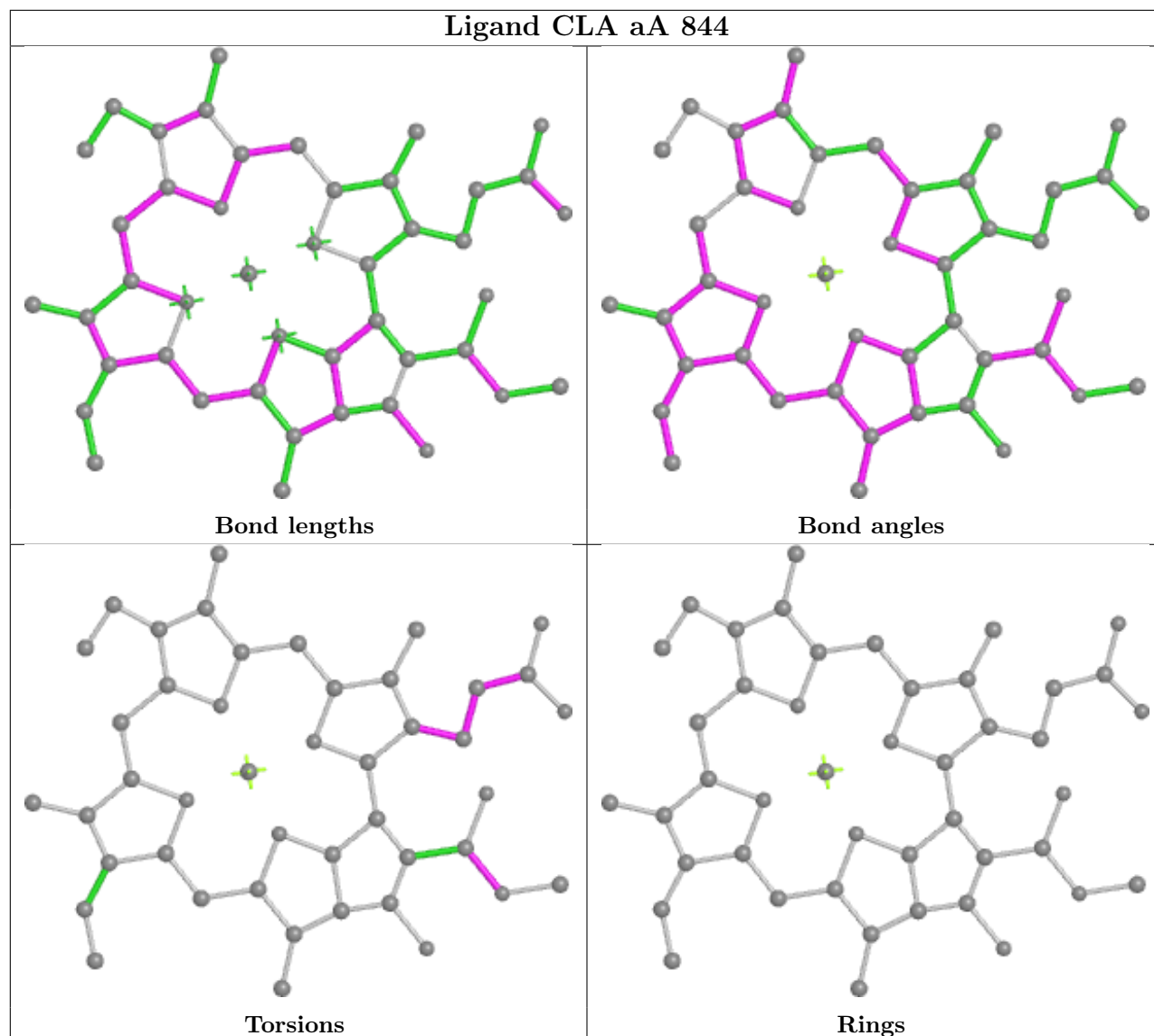


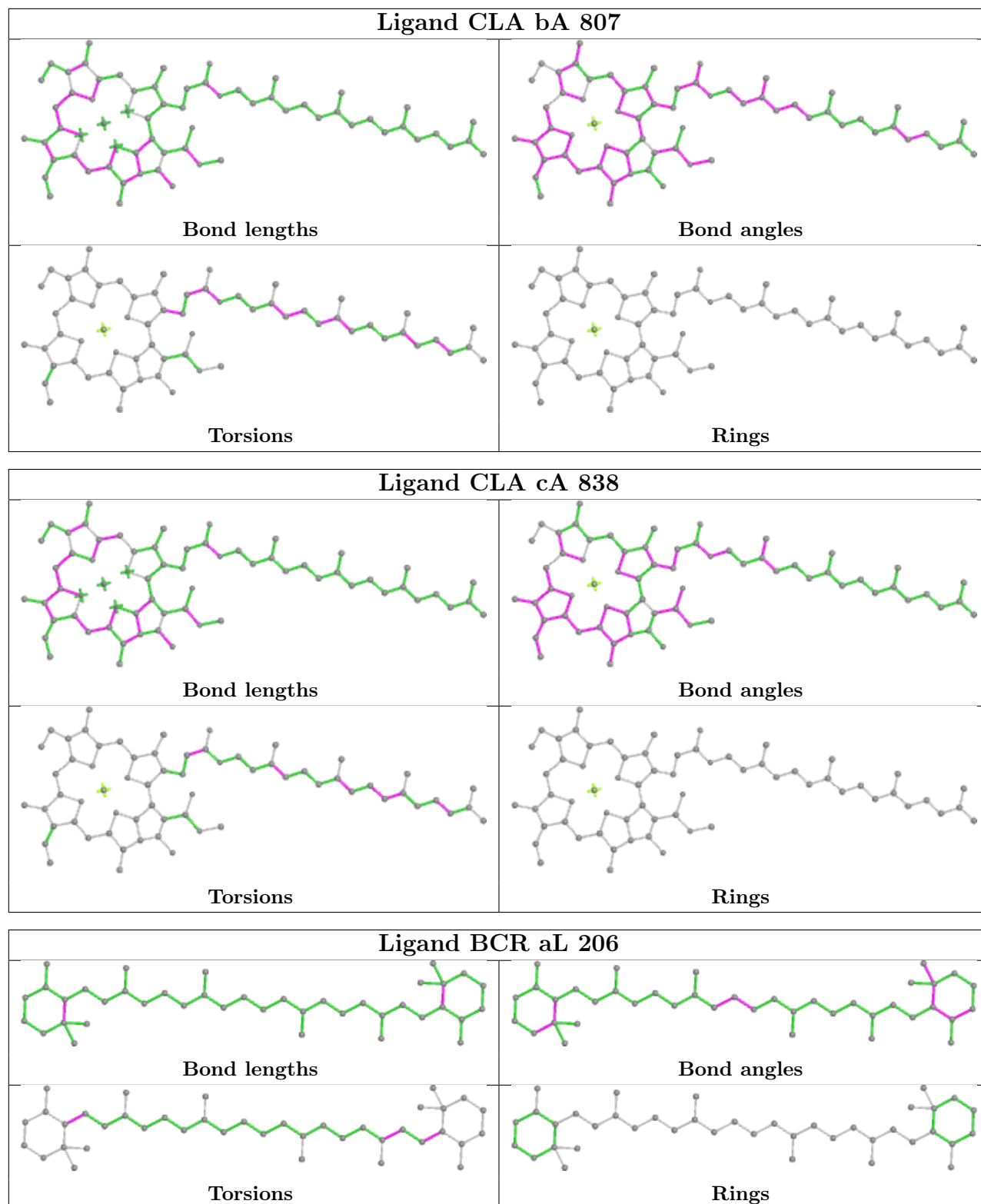


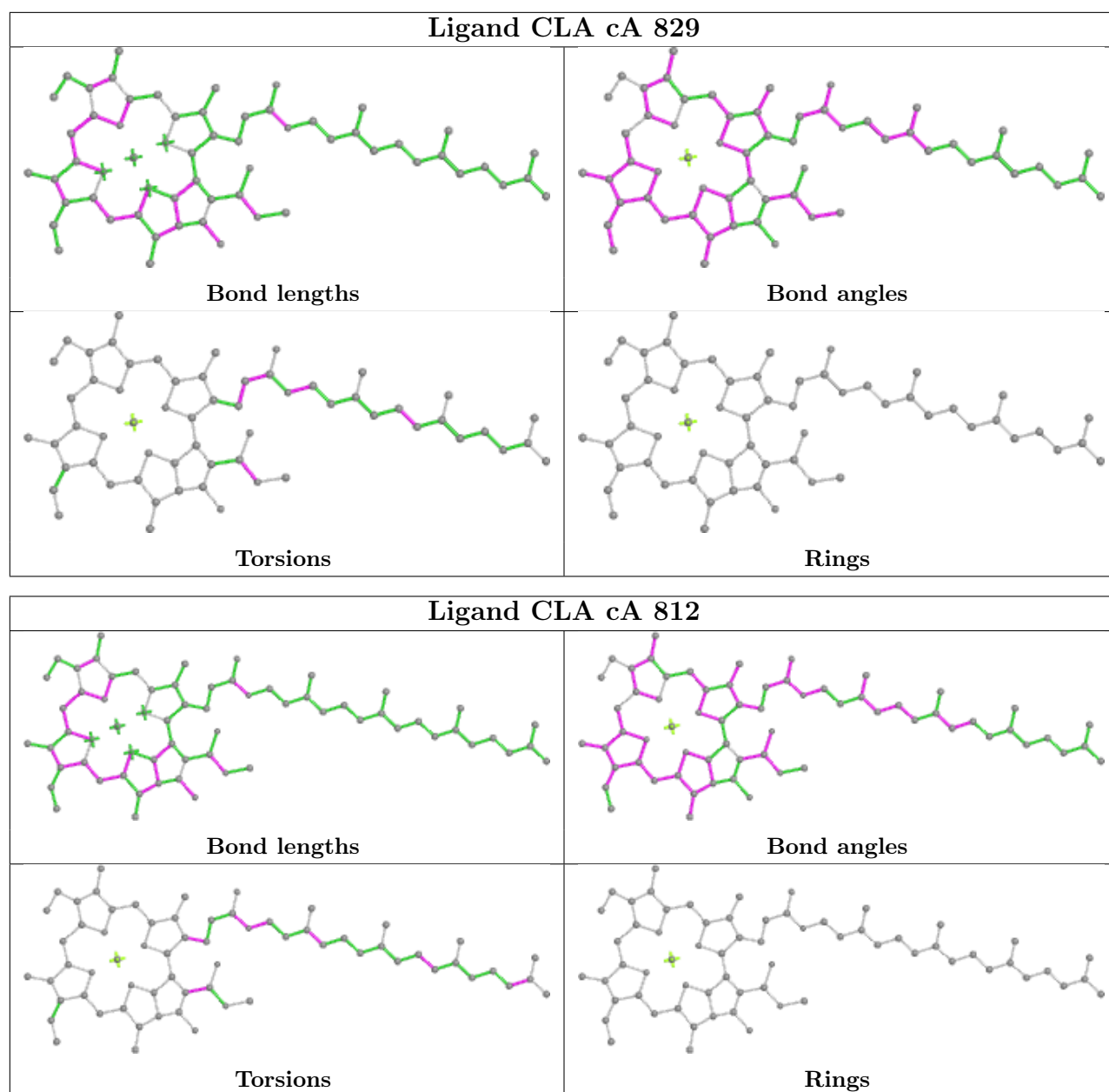


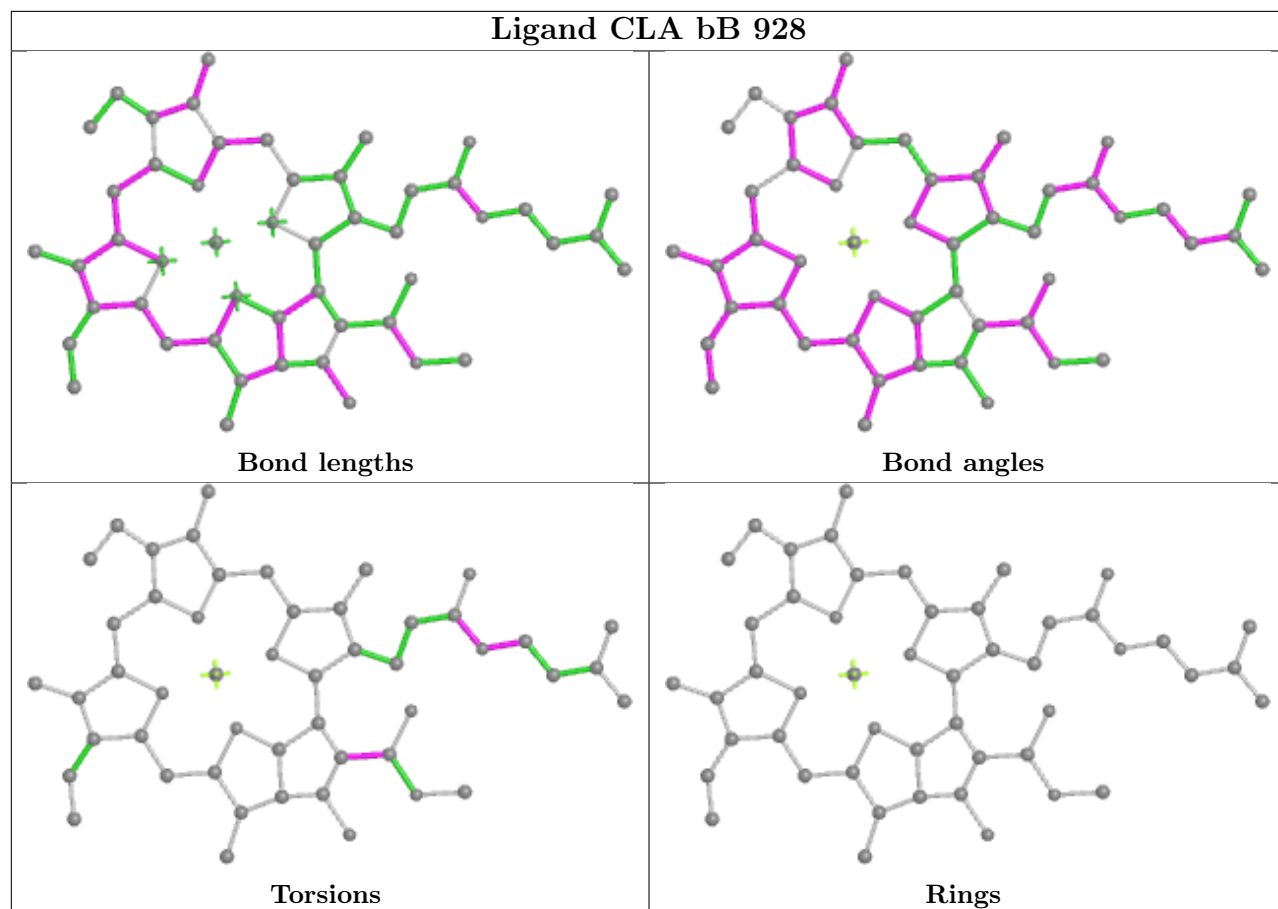


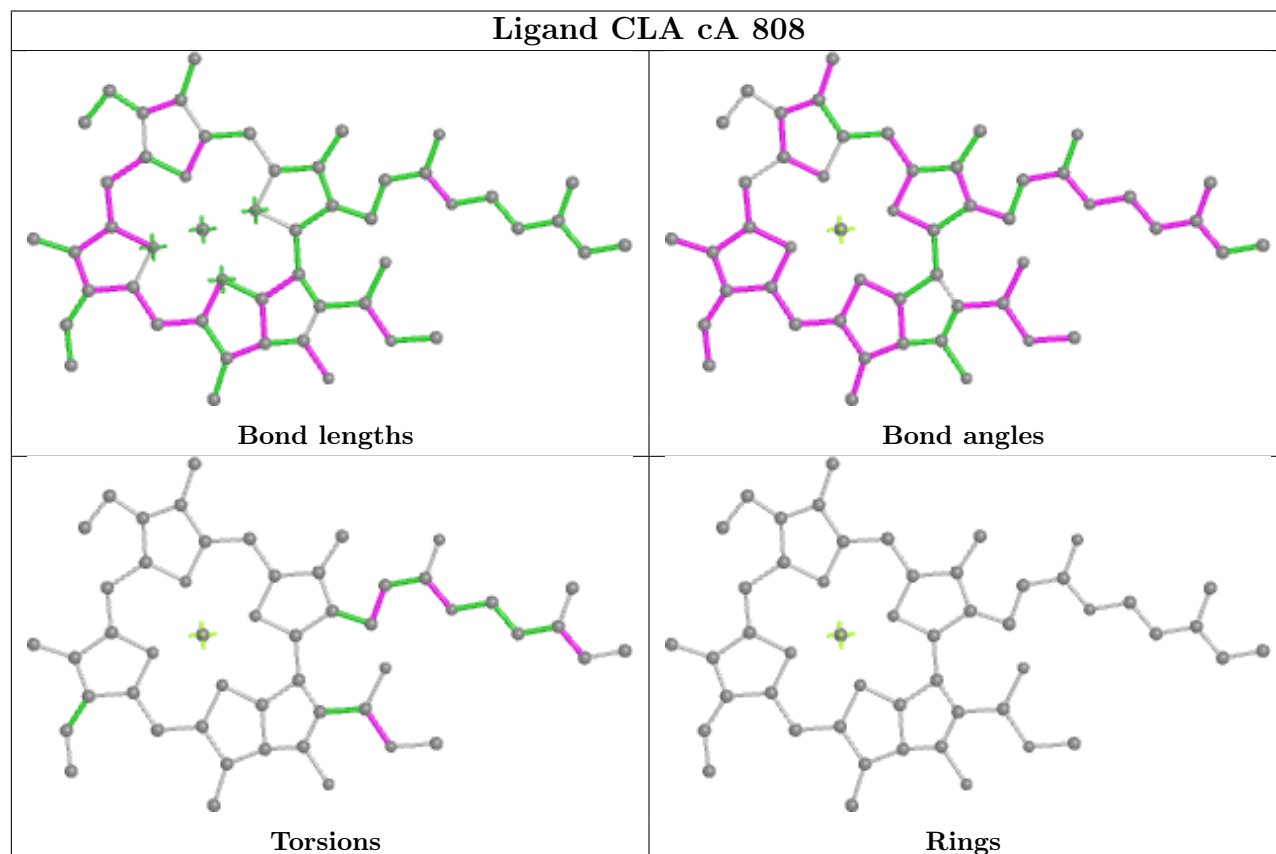
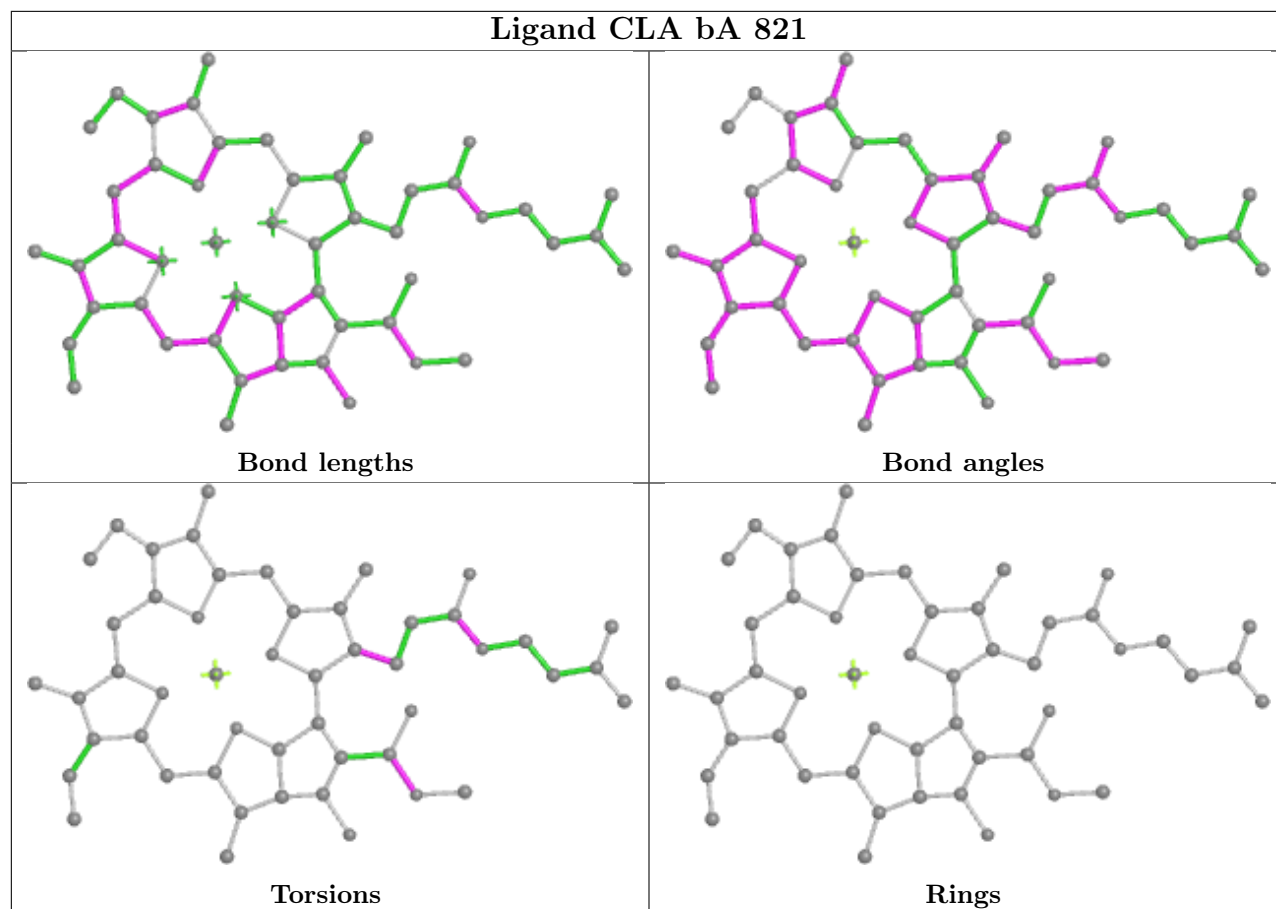


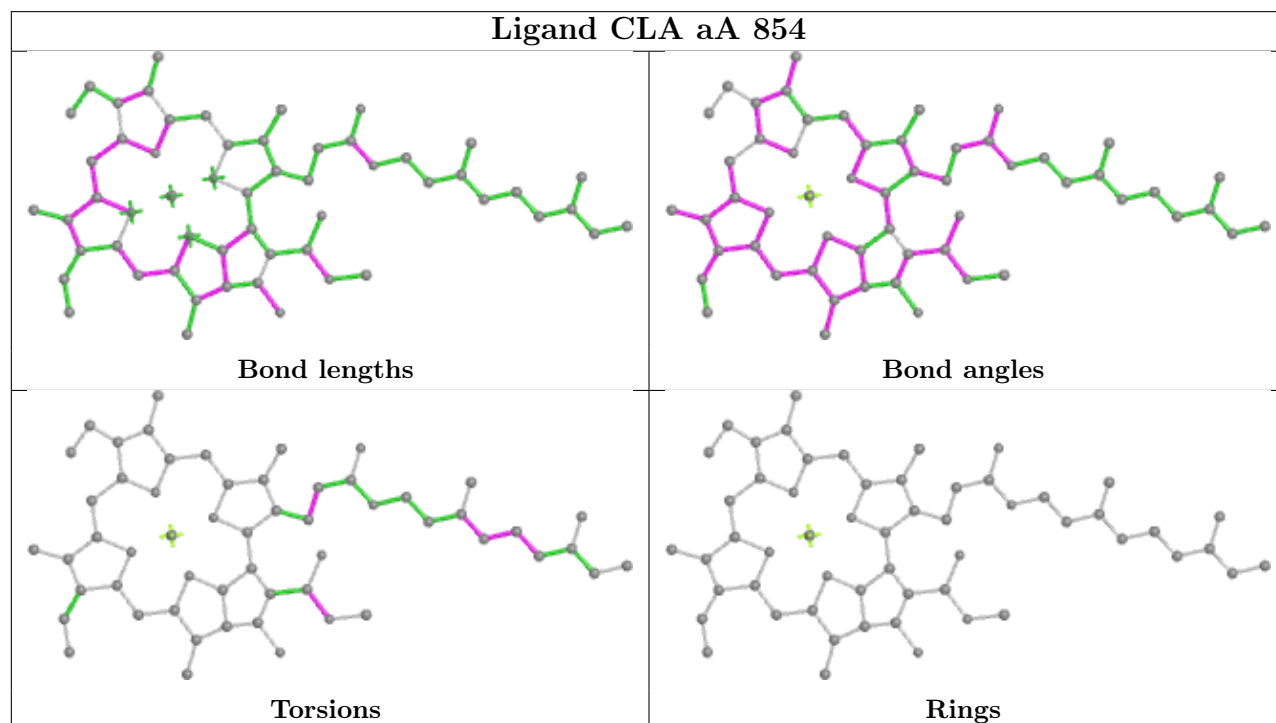
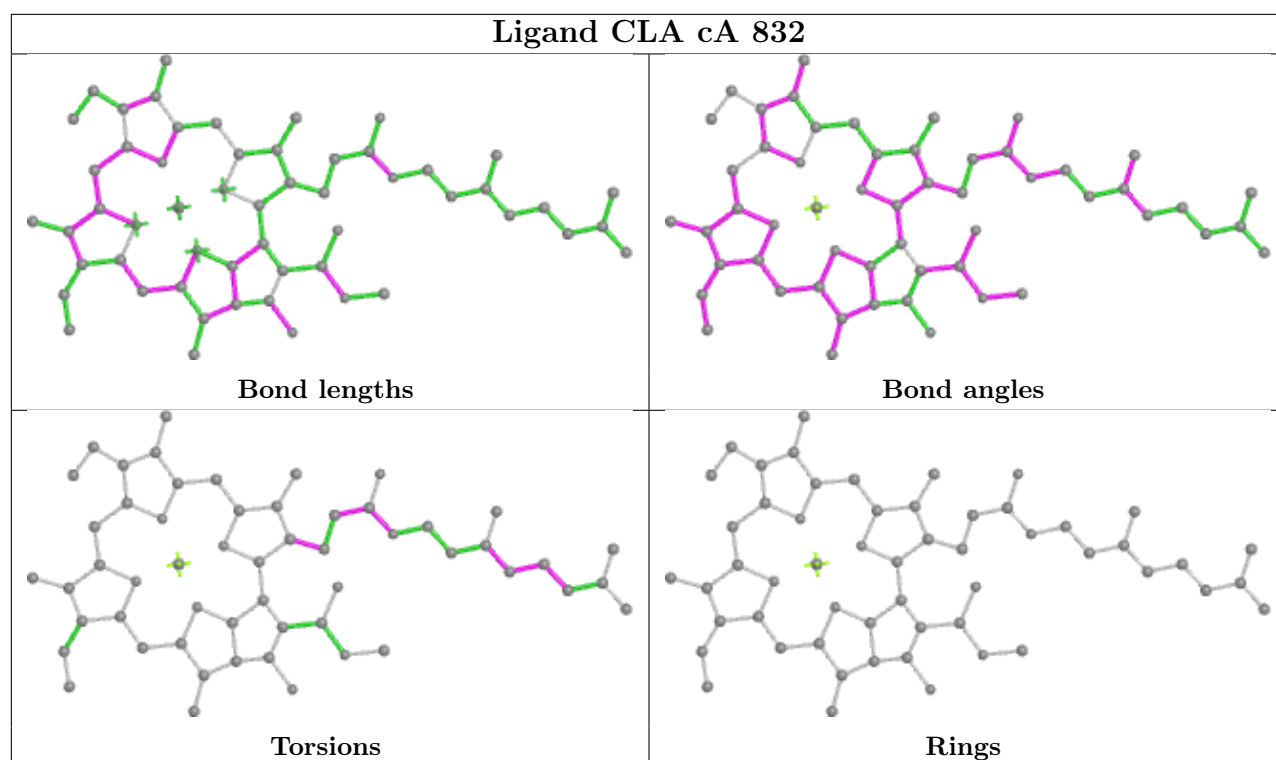


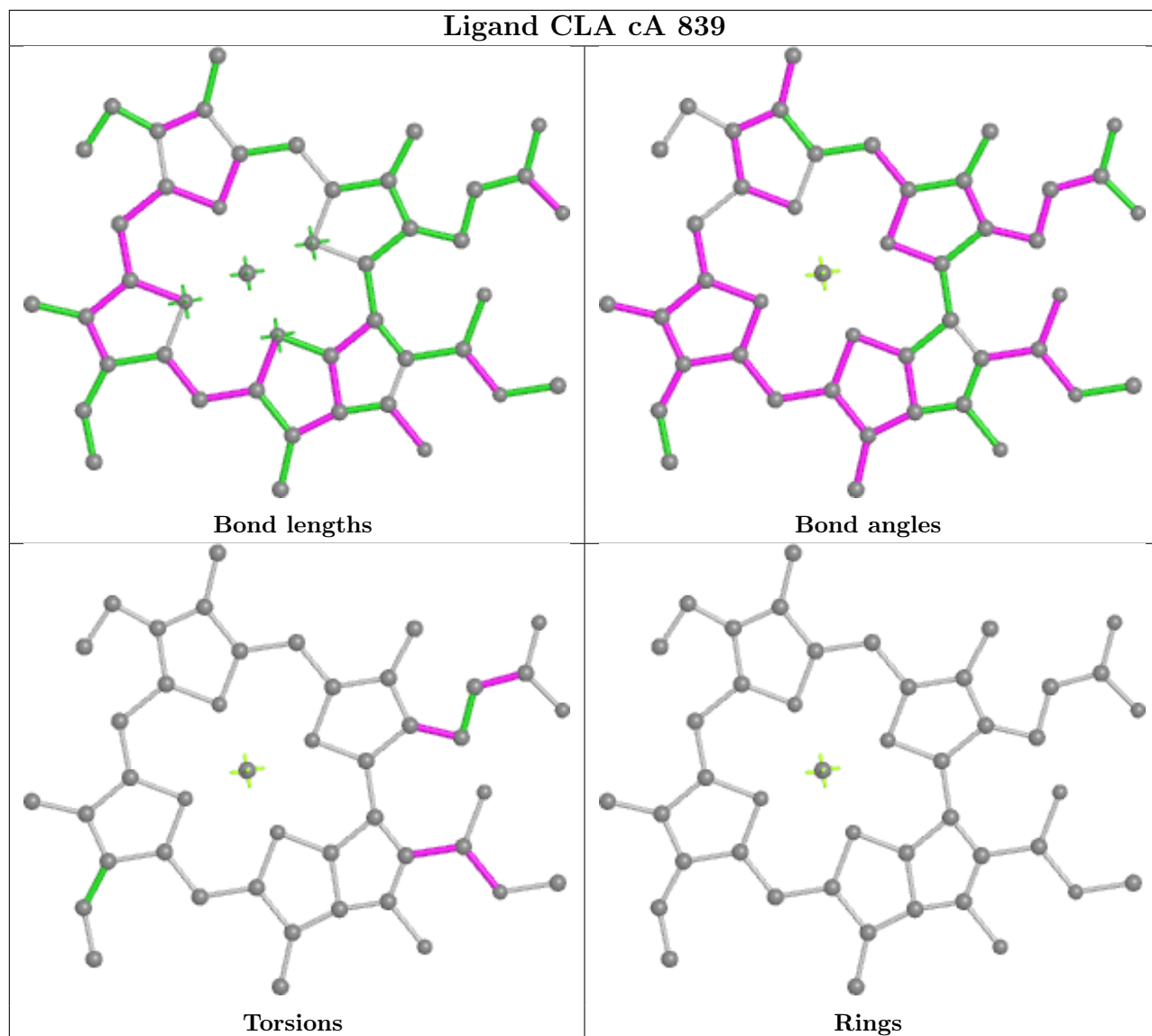


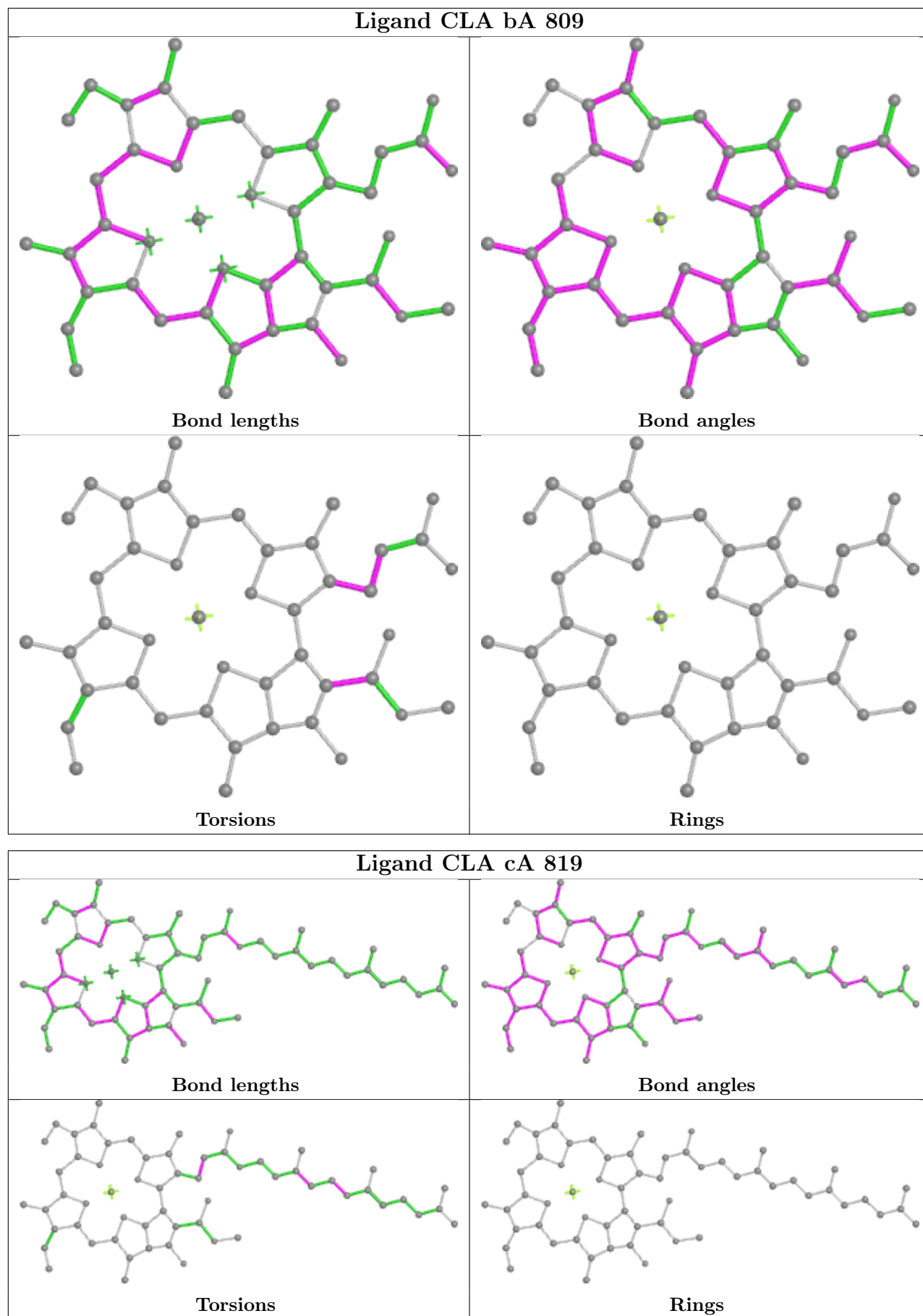


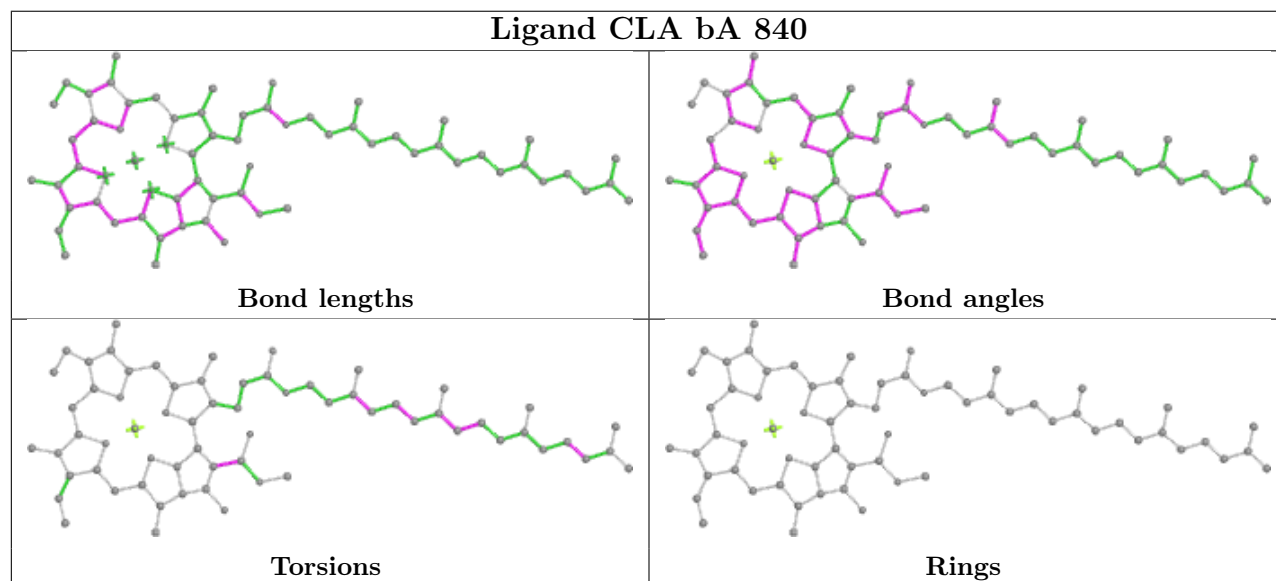
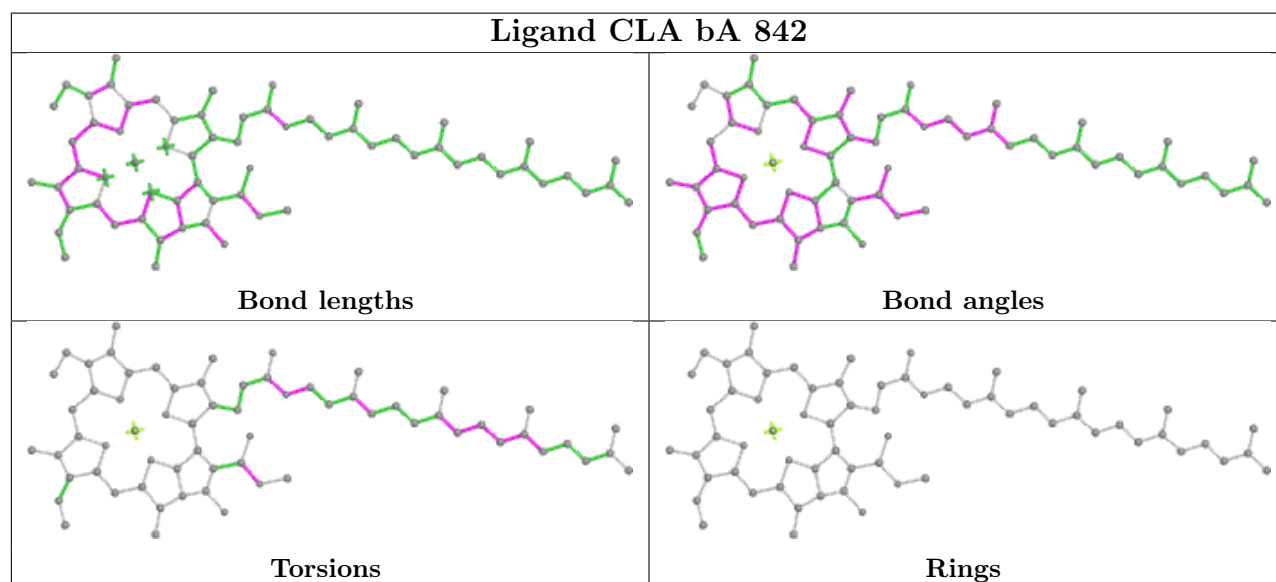
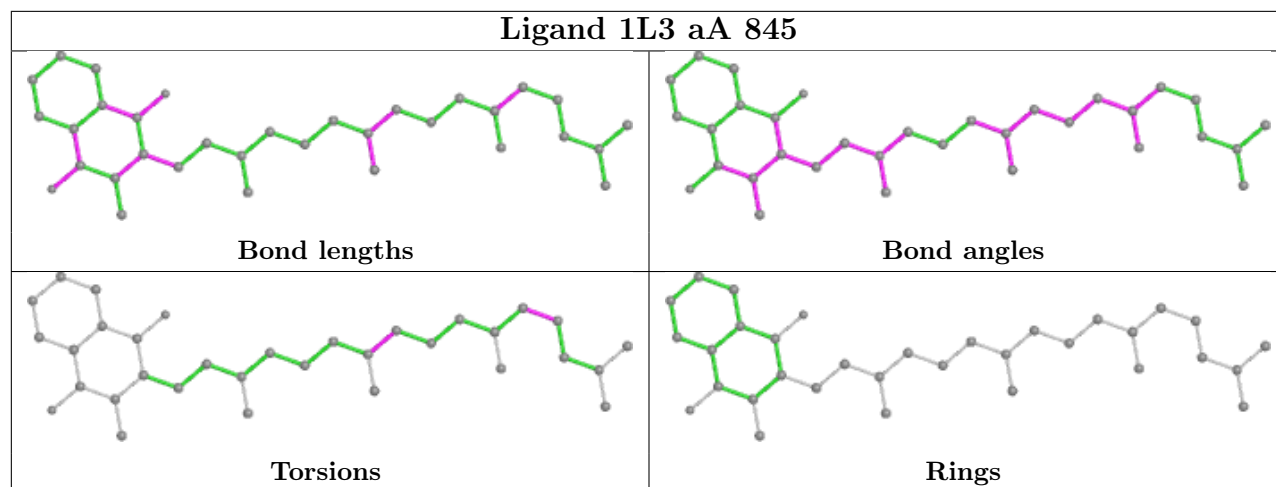


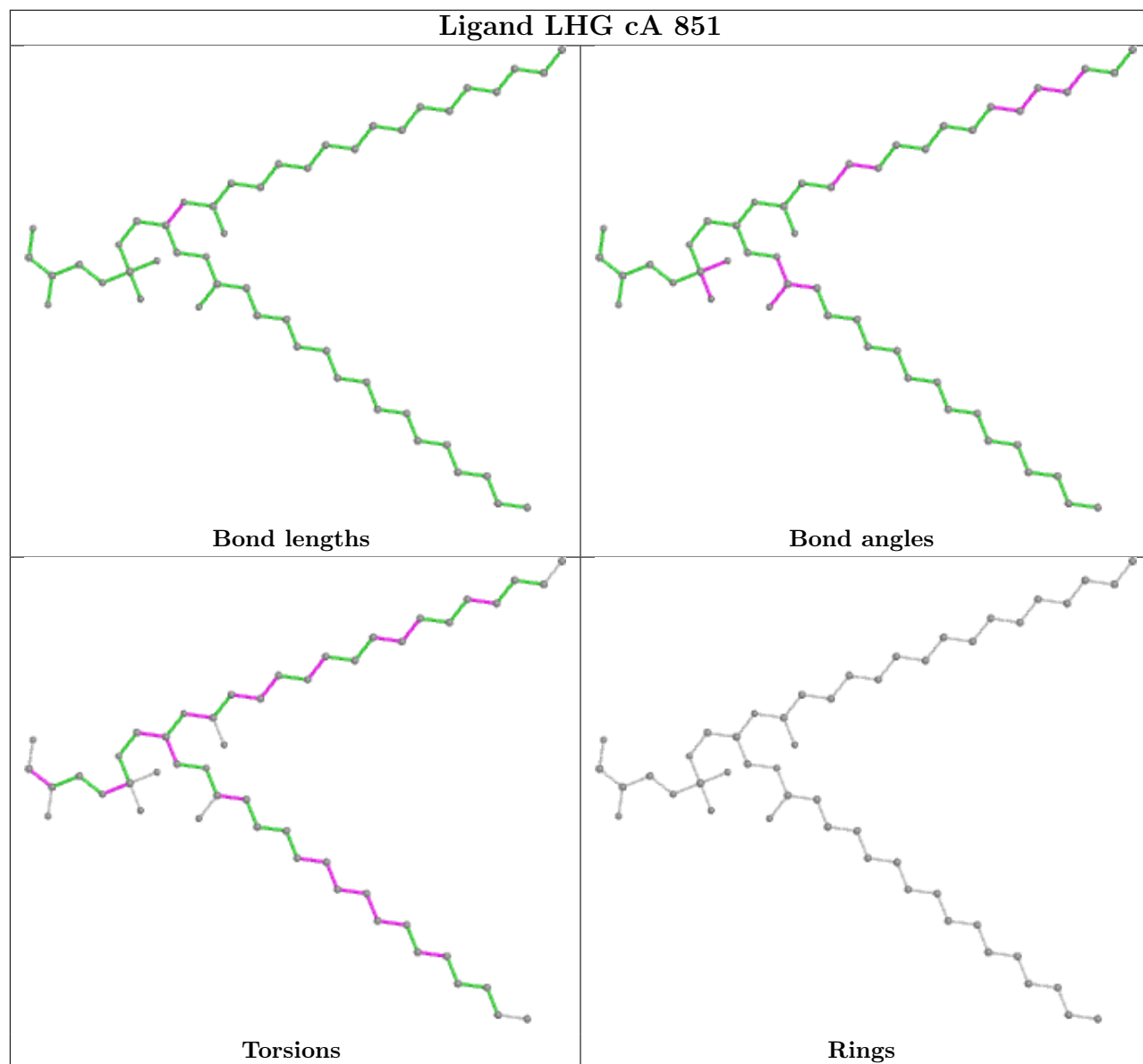


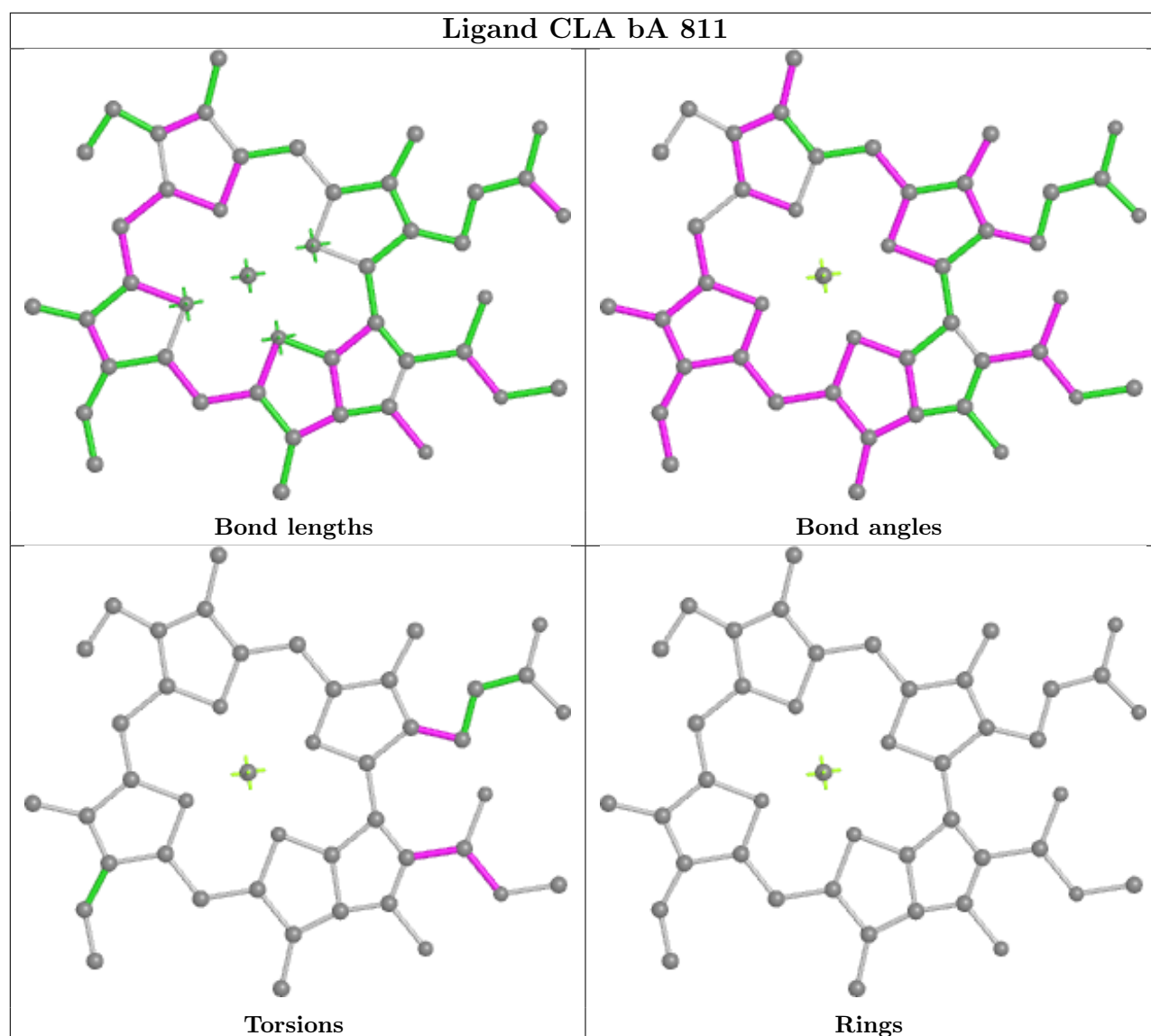












5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.

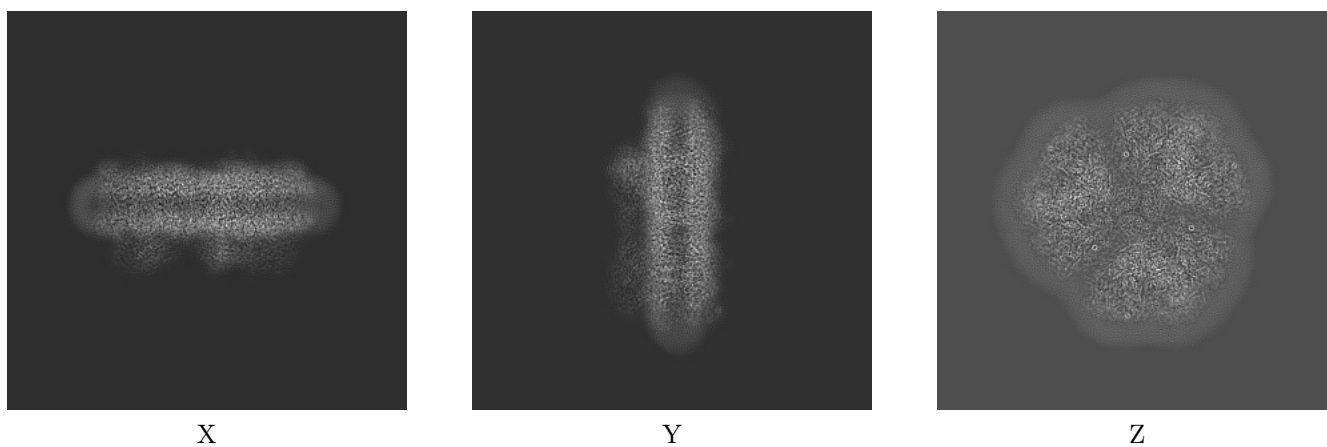
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-31455. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

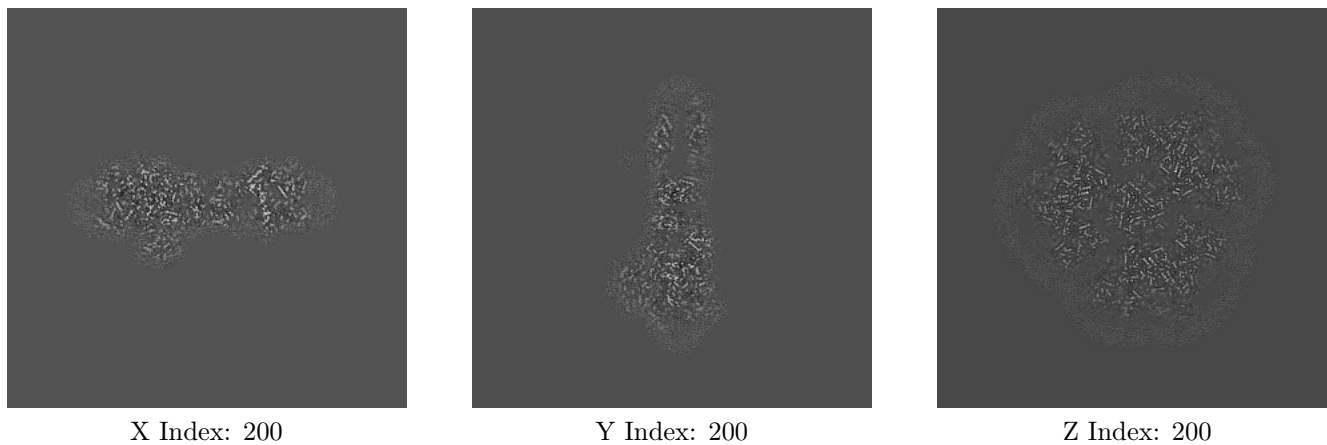
6.1.1 Primary map



The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

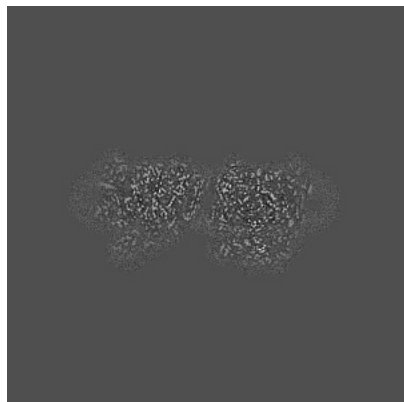
6.2.1 Primary map



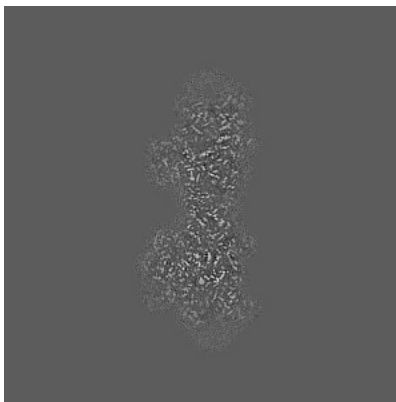
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

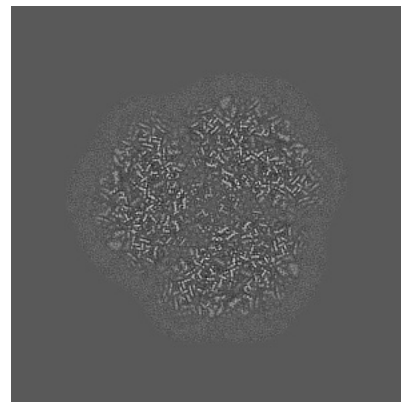
6.3.1 Primary map



X Index: 245



Y Index: 216

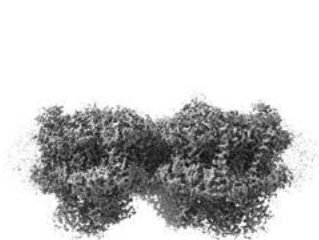


Z Index: 219

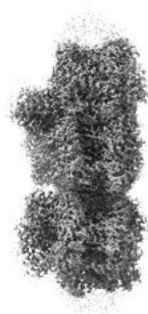
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

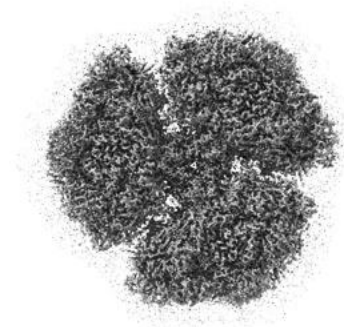
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.045. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

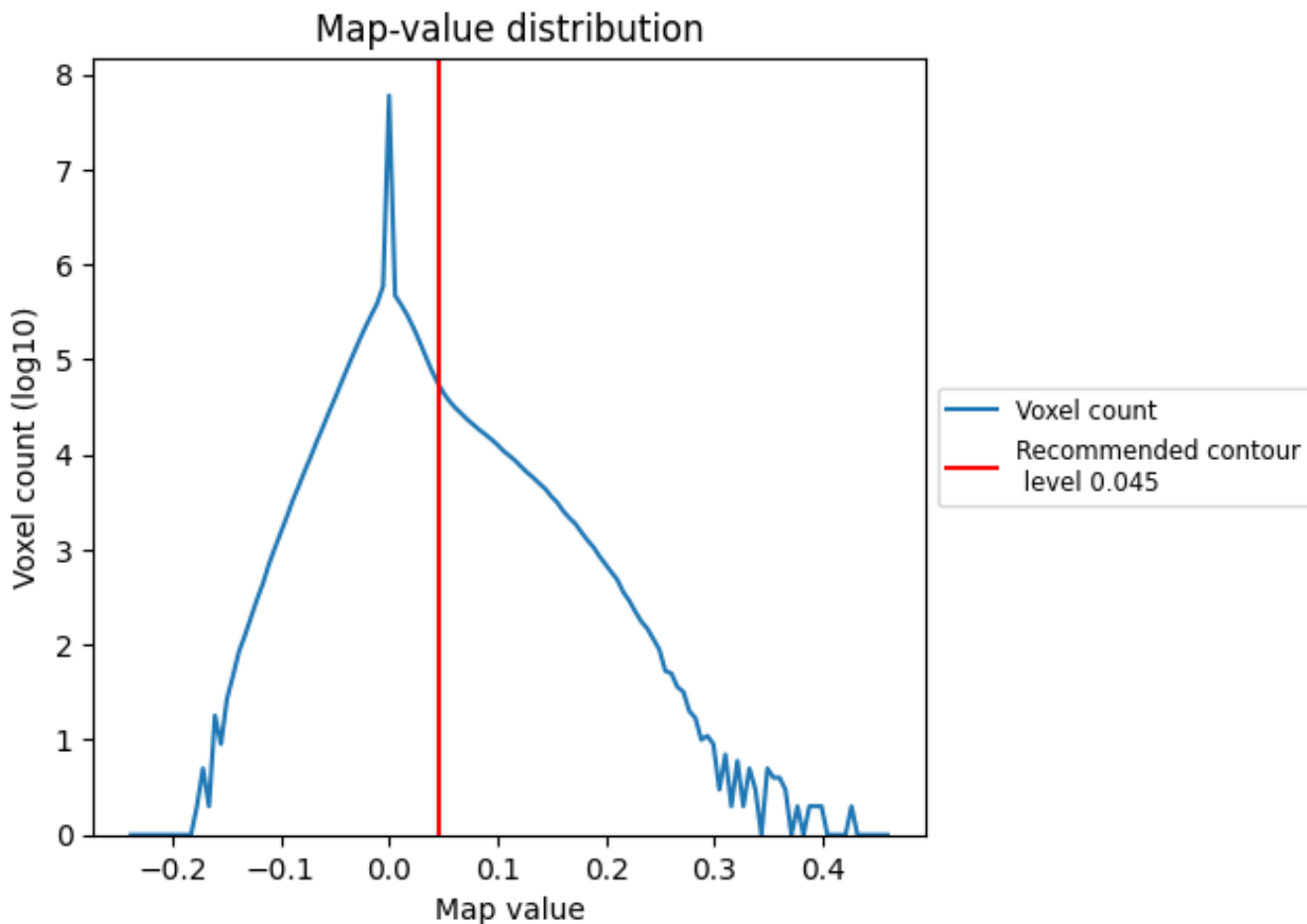
6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

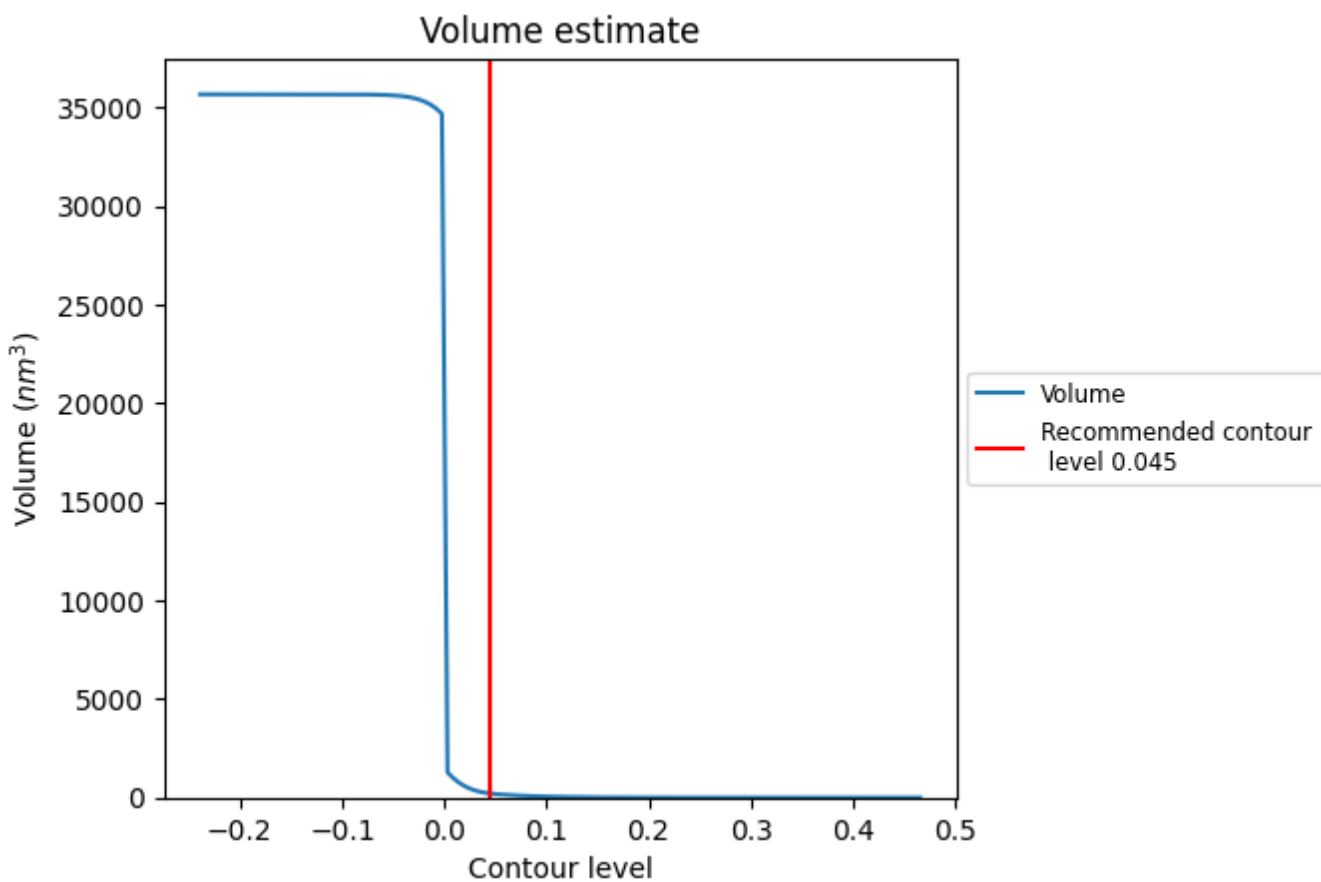
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

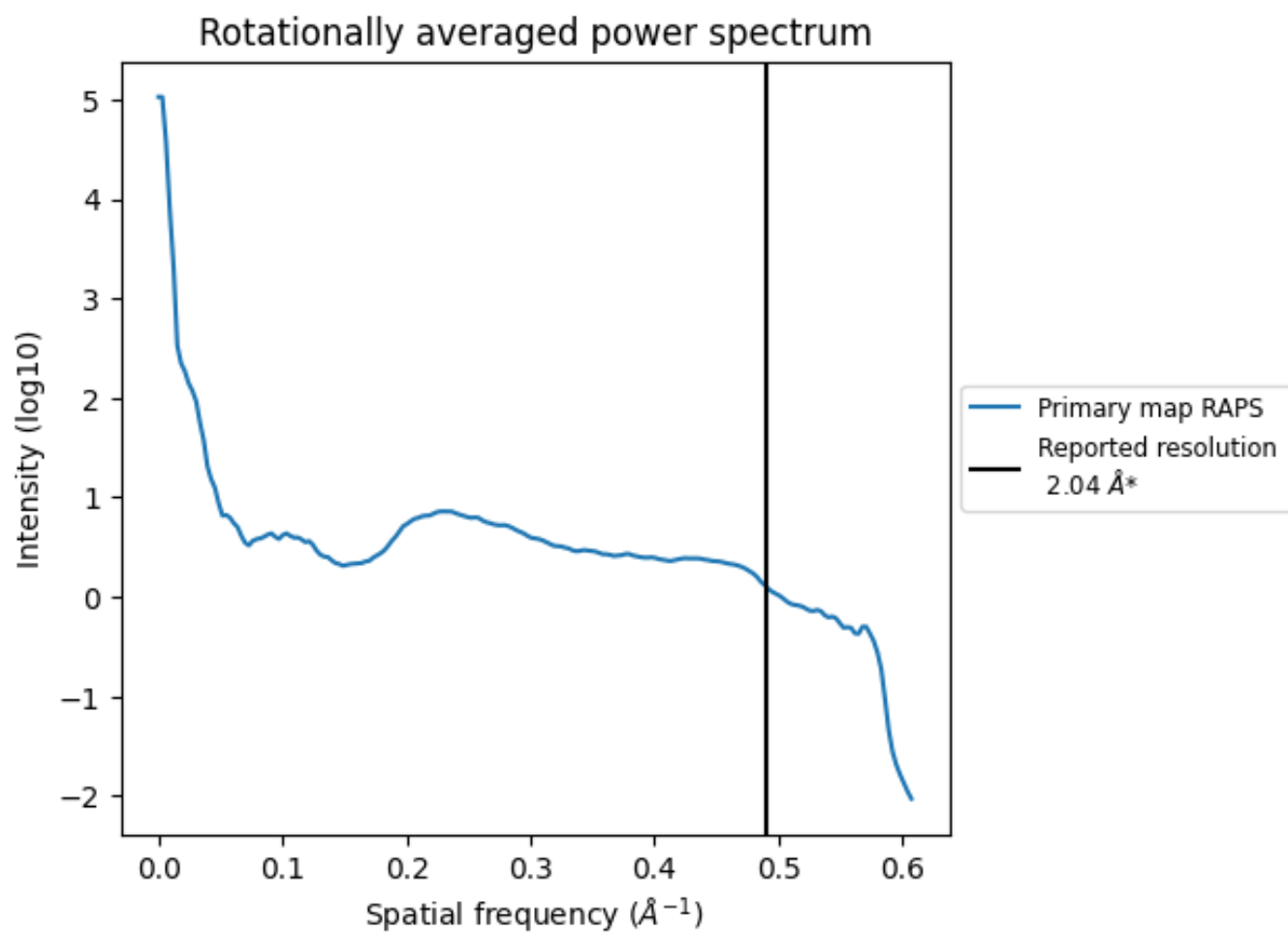
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 209 nm^3 ; this corresponds to an approximate mass of 189 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)

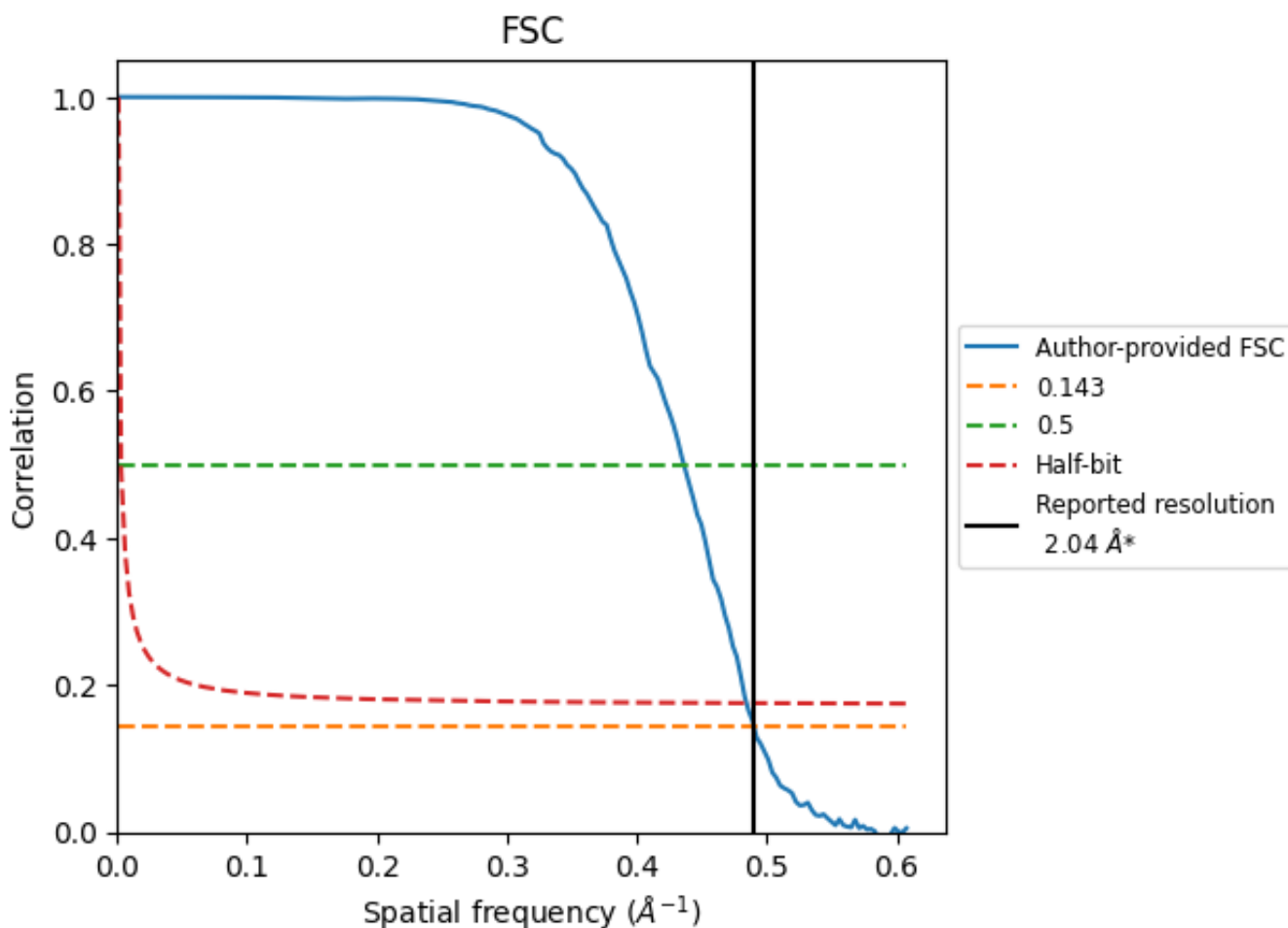


*Reported resolution corresponds to spatial frequency of 0.490\AA^{-1}

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.490 Å⁻¹

8.2 Resolution estimates [i](#)

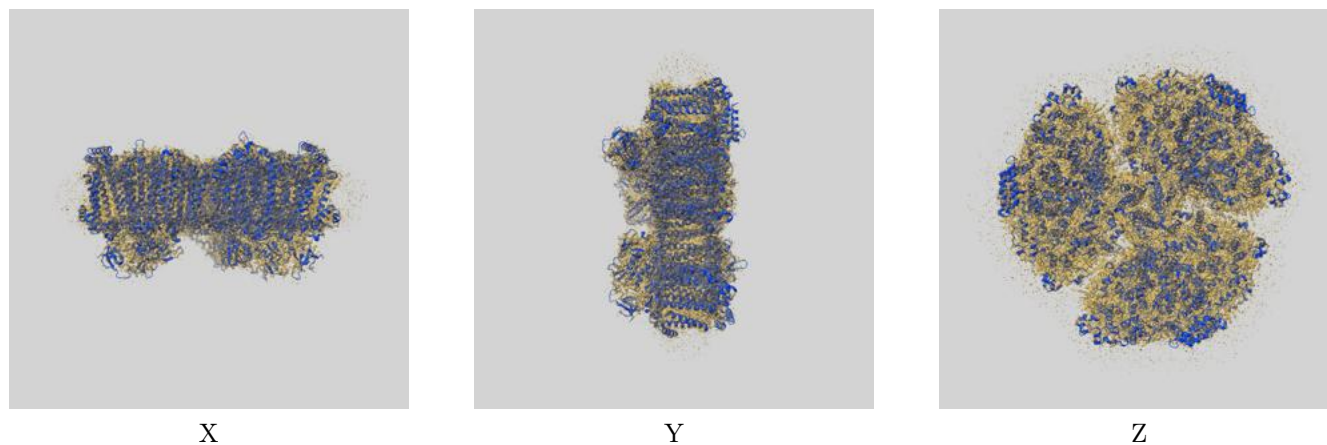
| Resolution estimate (Å) | Estimation criterion (FSC cut-off) | | |
|---------------------------|------------------------------------|------|----------|
| | 0.143 | 0.5 | Half-bit |
| Reported by author | 2.04 | - | - |
| Author-provided FSC curve | 2.04 | 2.29 | 2.06 |
| Unmasked-calculated* | - | - | - |

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

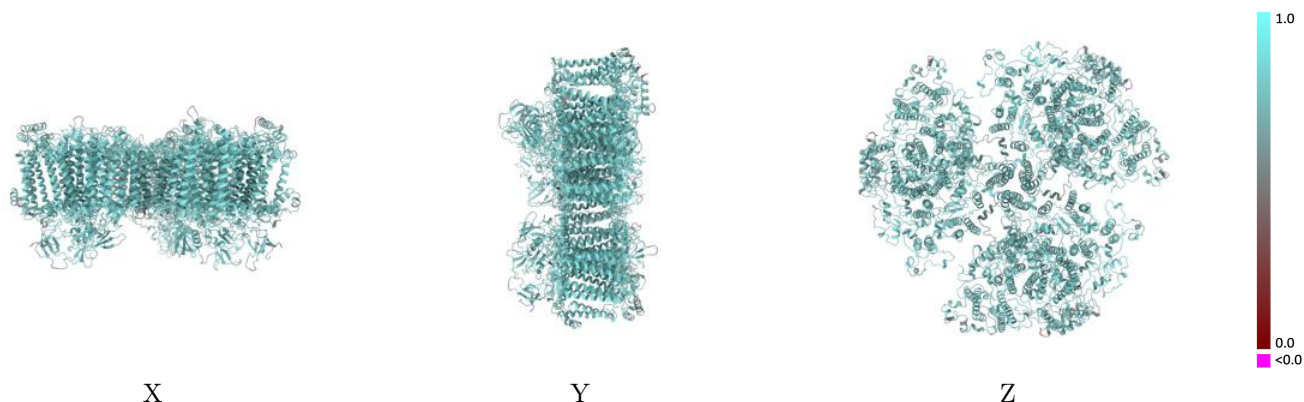
This section contains information regarding the fit between EMDB map EMD-31455 and PDB model 7F4V. Per-residue inclusion information can be found in section 3 on page 34.

9.1 Map-model overlay [i](#)



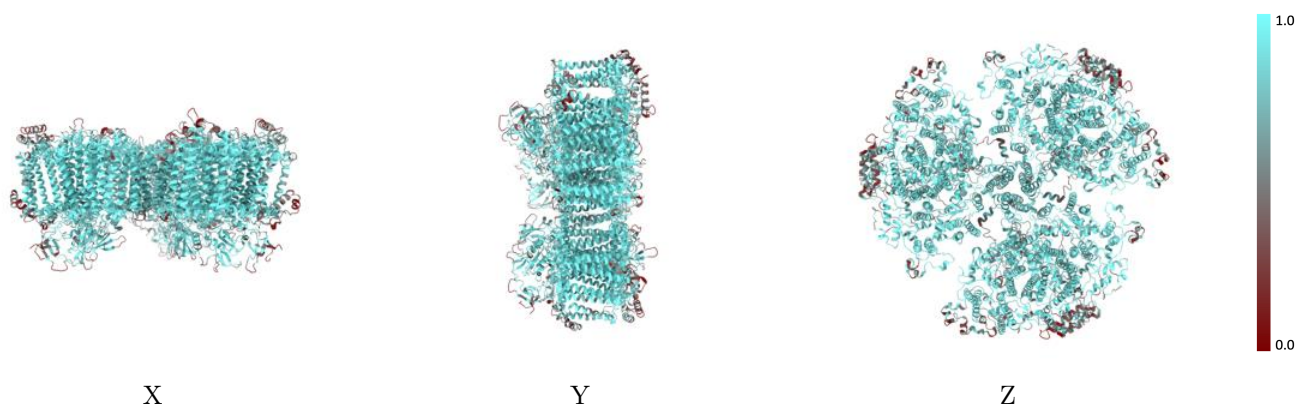
The images above show the 3D surface view of the map at the recommended contour level 0.045 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



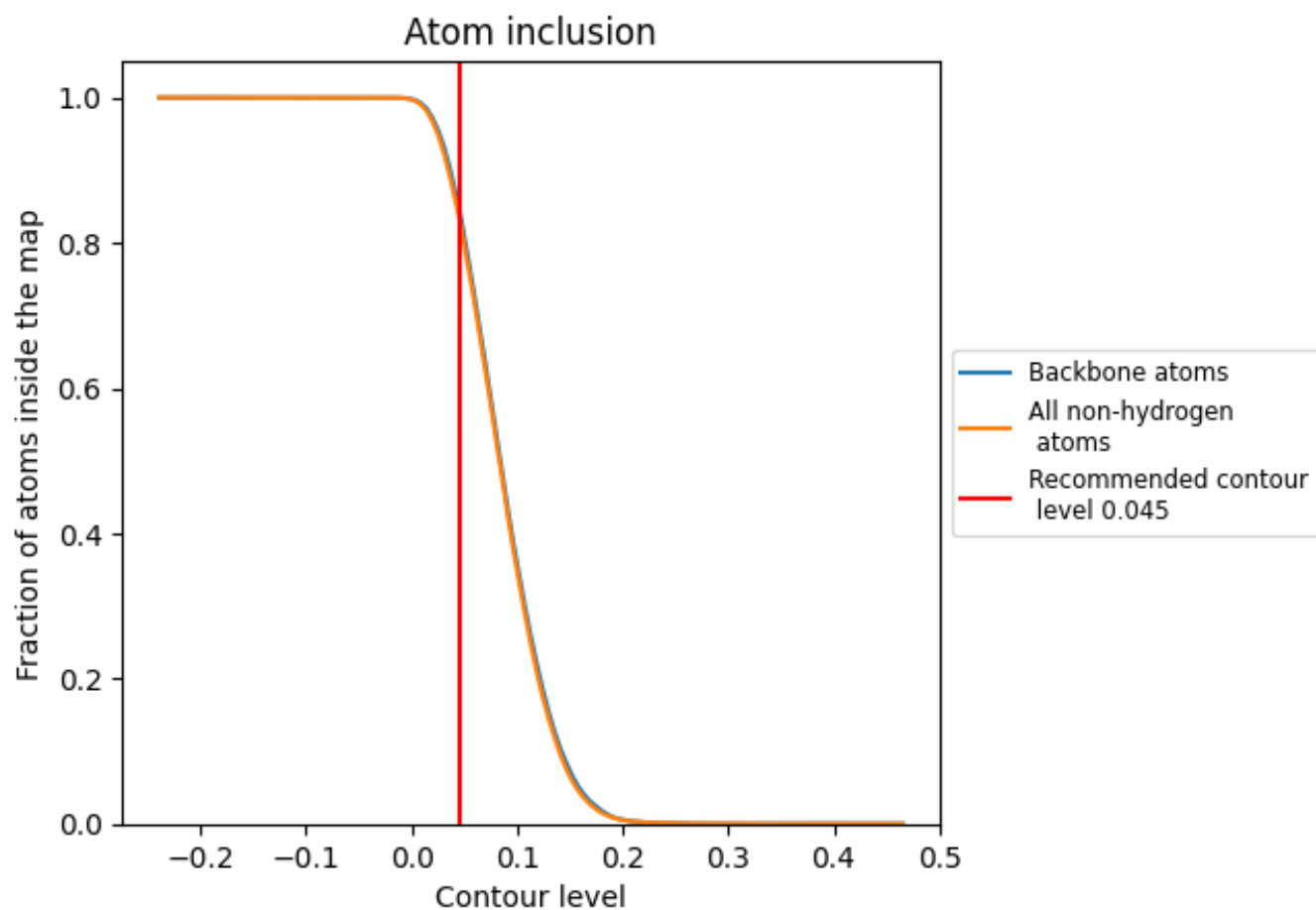
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.045).































































9.4 Atom inclusion [i](#)



At the recommended contour level, 85% of all backbone atoms, 84% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.045) and Q-score for the entire model and for each chain.

| Chain | Atom inclusion | Q-score |
|-------|--|--|
| All |  0.8363 |  0.7520 |
| aA |  0.8580 |  0.7580 |
| aB |  0.8963 |  0.7710 |
| aC |  0.9168 |  0.7710 |
| aD |  0.6994 |  0.7180 |
| aE |  0.6138 |  0.6720 |
| aF |  0.5443 |  0.6770 |
| aI |  0.8339 |  0.7470 |
| aJ |  0.7451 |  0.7110 |
| aL |  0.8458 |  0.7570 |
| aM |  0.8478 |  0.7480 |
| bA |  0.8530 |  0.7560 |
| bB |  0.8941 |  0.7690 |
| bC |  0.9185 |  0.7680 |
| bD |  0.6925 |  0.7150 |
| bE |  0.5955 |  0.6670 |
| bF |  0.5276 |  0.6720 |
| bI |  0.8339 |  0.7450 |
| bJ |  0.7500 |  0.7120 |
| bL |  0.8400 |  0.7540 |
| bM |  0.8391 |  0.7460 |
| cA |  0.8501 |  0.7550 |
| cB |  0.8923 |  0.7690 |
| cC |  0.9318 |  0.7690 |
| cD |  0.6876 |  0.7150 |
| cE |  0.6016 |  0.6650 |
| cF |  0.5299 |  0.6720 |
| cI |  0.8303 |  0.7480 |
| cJ |  0.7451 |  0.7060 |
| cL |  0.8375 |  0.7500 |
| cM |  0.8478 |  0.7470 |

