



wwPDB X-ray Structure Validation Summary Report ⓘ

Jun 22, 2024 – 06:17 PM EDT

PDB ID : 4XK8
Title : Crystal structure of plant photosystem I-LHCI super-complex at 2.8 angstrom resolution
Authors : Suga, M.; Qin, X.; Kuang, T.; Shen, J.R.
Deposited on : 2015-01-10
Resolution : 2.80 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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/XrayValidationReportHelp>

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:

| | | |
|--------------------------------|---|--|
| MolProbity | : | 4.02b-467 |
| Mogul | : | 1.8.5 (274361), CSD as541be (2020) |
| Xtriage (Phenix) | : | 1.13 |
| EDS | : | 2.37.1 |
| buster-report | : | 1.1.7 (2018) |
| Percentile statistics | : | 20191225.v01 (using entries in the PDB archive December 25th 2019) |
| Refmac | : | 5.8.0158 |
| CCP4 | : | 7.0.044 (Gargrove) |
| Ideal geometry (proteins) | : | Engh & Huber (2001) |
| Ideal geometry (DNA, RNA) | : | Parkinson et al. (1996) |
| Validation Pipeline (wwPDB-VP) | : | 2.37.1 |

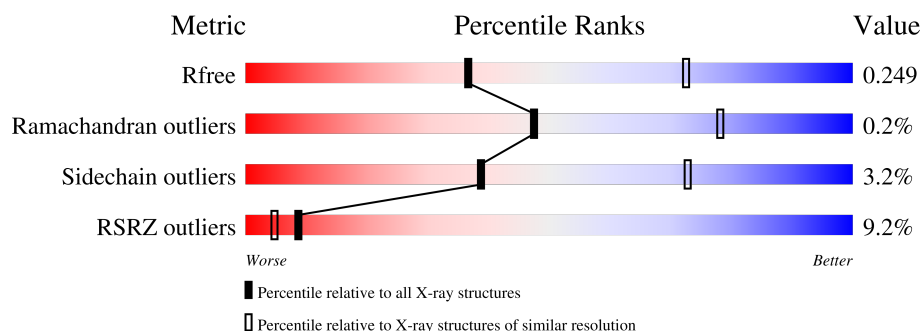
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

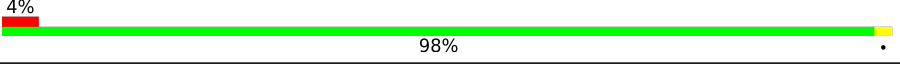
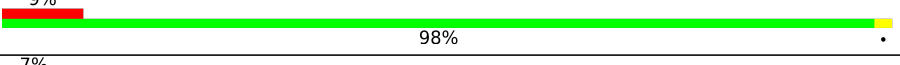
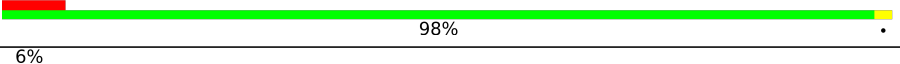
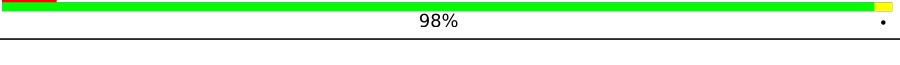
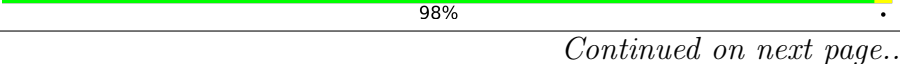
The reported resolution of this entry is 2.80 Å.

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) | Similar resolution (#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|---|
| R_{free} | 130704 | 3140 (2.80-2.80) |
| Ramachandran outliers | 138981 | 3498 (2.80-2.80) |
| Sidechain outliers | 138945 | 3500 (2.80-2.80) |
| RSRZ outliers | 127900 | 3078 (2.80-2.80) |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 1 | A | 742 |  |
| 1 | a | 742 |  |
| 2 | B | 733 |  |
| 2 | b | 733 |  |
| 3 | C | 80 |  |
| 3 | c | 80 |  |

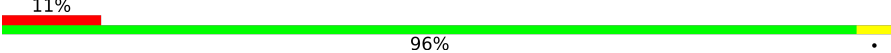
Continued on next page...

Continued from previous page...

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 4 | D | 141 | <div> <div>8%</div> <div>96%</div> <div>.</div> </div> |
| 4 | d | 141 | <div> <div>4%</div> <div>94%</div> <div>5% .</div> </div> |
| 5 | E | 64 | <div> <div>22%</div> <div>98%</div> <div>.</div> </div> |
| 5 | e | 64 | <div> <div>2%</div> <div>98%</div> <div>.</div> </div> |
| 6 | F | 151 | <div> <div>8%</div> <div>98%</div> <div>.</div> </div> |
| 6 | f | 151 | <div> <div>5%</div> <div>97%</div> <div>.</div> </div> |
| 7 | G | 95 | <div> <div>4%</div> <div>99%</div> <div>.</div> </div> |
| 7 | g | 95 | <div> <div>13%</div> <div>100%</div> <div>.</div> </div> |
| 8 | H | 90 | <div> <div>11%</div> <div>97%</div> <div>.</div> </div> |
| 8 | h | 90 | <div> <div>3%</div> <div>97%</div> <div>.</div> </div> |
| 9 | I | 30 | <div> <div>3%</div> <div>93%</div> <div>. .</div> </div> |
| 9 | i | 30 | <div> <div>3%</div> <div>97%</div> <div>.</div> </div> |
| 10 | J | 39 | <div> <div>5%</div> <div>95%</div> <div>5%</div> </div> |
| 10 | j | 39 | <div> <div>8%</div> <div>95%</div> <div>5%</div> </div> |
| 11 | K | 84 | <div> <div>19%</div> <div>51%</div> <div>.</div> <div>46%</div> </div> |
| 11 | k | 84 | <div> <div>6%</div> <div>52%</div> <div>.</div> <div>45%</div> </div> |
| 12 | L | 153 | <div> <div>10%</div> <div>93%</div> <div>7%</div> </div> |
| 12 | l | 153 | <div> <div>92%</div> <div>7% .</div> </div> |
| 13 | 1 | 195 | <div> <div>17%</div> <div>97%</div> <div>.</div> </div> |
| 13 | 6 | 195 | <div> <div>15%</div> <div>97%</div> <div>.</div> </div> |
| 14 | 2 | 206 | <div> <div>28%</div> <div>96%</div> <div>.</div> </div> |
| 14 | 7 | 206 | <div> <div>15%</div> <div>96%</div> <div>.</div> </div> |
| 15 | 3 | 218 | <div> <div>17%</div> <div>97%</div> <div>.</div> </div> |
| 15 | 8 | 218 | <div> <div>11%</div> <div>97%</div> <div>.</div> </div> |
| 16 | 4 | 196 | <div> <div>21%</div> <div>96%</div> <div>.</div> </div> |

Continued on next page...

Continued from previous page...

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 16 | 9 | 196 |  |

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 |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17 | CLA | 1 | 303 | X | - | - | - |
| 17 | CLA | 1 | 304 | X | - | - | - |
| 17 | CLA | 1 | 305 | X | - | - | - |
| 17 | CLA | 1 | 306 | X | - | - | - |
| 17 | CLA | 1 | 308 | X | - | - | - |
| 17 | CLA | 1 | 309 | X | - | - | - |
| 17 | CLA | 1 | 310 | X | - | - | - |
| 17 | CLA | 1 | 311 | X | - | - | - |
| 17 | CLA | 1 | 312 | X | - | - | - |
| 17 | CLA | 1 | 313 | X | - | - | - |
| 17 | CLA | 1 | 315 | X | - | - | - |
| 17 | CLA | 2 | 602 | X | - | - | - |
| 17 | CLA | 2 | 603 | X | - | - | - |
| 17 | CLA | 2 | 604 | X | - | - | - |
| 17 | CLA | 2 | 608 | X | - | - | - |
| 17 | CLA | 2 | 609 | X | - | - | - |
| 17 | CLA | 2 | 610 | X | - | - | - |
| 17 | CLA | 2 | 611 | X | - | - | - |
| 17 | CLA | 2 | 612 | X | - | - | - |
| 17 | CLA | 2 | 613 | X | - | - | - |
| 17 | CLA | 3 | 301 | X | - | - | X |
| 17 | CLA | 3 | 302 | X | - | - | - |
| 17 | CLA | 3 | 303 | X | - | - | - |
| 17 | CLA | 3 | 304 | X | - | - | - |
| 17 | CLA | 3 | 305 | X | - | - | - |
| 17 | CLA | 3 | 306 | X | - | - | - |
| 17 | CLA | 3 | 308 | X | - | - | - |
| 17 | CLA | 3 | 309 | X | - | - | - |
| 17 | CLA | 3 | 310 | X | - | - | - |
| 17 | CLA | 3 | 311 | X | - | - | - |
| 17 | CLA | 3 | 312 | X | - | - | - |
| 17 | CLA | 3 | 313 | X | - | - | - |
| 17 | CLA | 3 | 314 | X | - | - | - |
| 17 | CLA | 3 | 315 | X | - | - | - |
| 17 | CLA | 4 | 601 | X | - | - | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17 | CLA | 4 | 602 | X | - | - | - |
| 17 | CLA | 4 | 603 | X | - | - | - |
| 17 | CLA | 4 | 604 | X | - | - | - |
| 17 | CLA | 4 | 608 | X | - | - | - |
| 17 | CLA | 4 | 609 | X | - | - | - |
| 17 | CLA | 4 | 610 | X | - | - | - |
| 17 | CLA | 4 | 611 | X | - | - | - |
| 17 | CLA | 4 | 612 | X | - | - | - |
| 17 | CLA | 4 | 613 | X | - | - | - |
| 17 | CLA | 4 | 614 | X | - | - | - |
| 17 | CLA | 6 | 304 | X | - | - | - |
| 17 | CLA | 6 | 305 | X | - | - | - |
| 17 | CLA | 6 | 306 | X | - | - | - |
| 17 | CLA | 6 | 307 | X | - | - | - |
| 17 | CLA | 6 | 309 | X | - | - | - |
| 17 | CLA | 6 | 310 | X | - | - | - |
| 17 | CLA | 6 | 311 | X | - | - | - |
| 17 | CLA | 6 | 312 | X | - | - | - |
| 17 | CLA | 6 | 313 | X | - | - | - |
| 17 | CLA | 6 | 314 | X | - | - | - |
| 17 | CLA | 6 | 315 | X | - | - | - |
| 17 | CLA | 6 | 316 | X | - | - | - |
| 17 | CLA | 7 | 602 | X | - | - | - |
| 17 | CLA | 7 | 603 | X | - | - | - |
| 17 | CLA | 7 | 604 | X | - | - | - |
| 17 | CLA | 7 | 608 | X | - | - | - |
| 17 | CLA | 7 | 609 | X | - | - | - |
| 17 | CLA | 7 | 610 | X | - | - | - |
| 17 | CLA | 7 | 611 | X | - | - | - |
| 17 | CLA | 7 | 612 | X | - | - | - |
| 17 | CLA | 8 | 301 | X | - | - | - |
| 17 | CLA | 8 | 302 | X | - | - | - |
| 17 | CLA | 8 | 303 | X | - | - | - |
| 17 | CLA | 8 | 304 | X | - | - | - |
| 17 | CLA | 8 | 305 | X | - | - | - |
| 17 | CLA | 8 | 307 | X | - | - | - |
| 17 | CLA | 8 | 308 | X | - | - | - |
| 17 | CLA | 8 | 309 | X | - | - | X |
| 17 | CLA | 8 | 310 | X | - | - | - |
| 17 | CLA | 8 | 311 | X | - | - | - |
| 17 | CLA | 8 | 312 | X | - | - | - |
| 17 | CLA | 8 | 313 | X | - | - | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17 | CLA | 9 | 601 | X | - | - | - |
| 17 | CLA | 9 | 602 | X | - | - | - |
| 17 | CLA | 9 | 603 | X | - | - | - |
| 17 | CLA | 9 | 604 | X | - | - | - |
| 17 | CLA | 9 | 608 | X | - | - | - |
| 17 | CLA | 9 | 609 | X | - | - | - |
| 17 | CLA | 9 | 610 | X | - | - | - |
| 17 | CLA | 9 | 611 | X | - | - | - |
| 17 | CLA | 9 | 612 | X | - | - | - |
| 17 | CLA | 9 | 613 | X | - | - | - |
| 17 | CLA | 9 | 614 | X | - | - | - |
| 17 | CLA | A | 801 | X | - | - | - |
| 17 | CLA | A | 802 | X | - | - | - |
| 17 | CLA | A | 803 | X | - | - | - |
| 17 | CLA | A | 804 | X | - | - | - |
| 17 | CLA | A | 805 | X | - | - | - |
| 17 | CLA | A | 806 | X | - | - | - |
| 17 | CLA | A | 807 | X | - | - | - |
| 17 | CLA | A | 808 | X | - | - | - |
| 17 | CLA | A | 809 | X | - | - | - |
| 17 | CLA | A | 810 | X | - | - | - |
| 17 | CLA | A | 811 | X | - | - | - |
| 17 | CLA | A | 812 | X | - | - | - |
| 17 | CLA | A | 813 | X | - | - | - |
| 17 | CLA | A | 814 | X | - | - | - |
| 17 | CLA | A | 815 | X | - | - | - |
| 17 | CLA | A | 816 | X | - | - | - |
| 17 | CLA | A | 818 | X | - | - | - |
| 17 | CLA | A | 819 | X | - | - | - |
| 17 | CLA | A | 820 | X | - | - | - |
| 17 | CLA | A | 821 | X | - | - | - |
| 17 | CLA | A | 822 | X | - | - | - |
| 17 | CLA | A | 823 | X | - | - | - |
| 17 | CLA | A | 824 | X | - | - | - |
| 17 | CLA | A | 825 | X | - | - | - |
| 17 | CLA | A | 826 | X | - | - | - |
| 17 | CLA | A | 827 | X | - | - | - |
| 17 | CLA | A | 828 | X | - | - | - |
| 17 | CLA | A | 829 | X | - | - | - |
| 17 | CLA | A | 830 | X | - | - | - |
| 17 | CLA | A | 831 | X | - | - | - |
| 17 | CLA | A | 832 | X | - | - | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17 | CLA | A | 833 | X | - | - | - |
| 17 | CLA | A | 834 | X | - | - | - |
| 17 | CLA | A | 835 | X | - | - | - |
| 17 | CLA | A | 836 | X | - | - | - |
| 17 | CLA | A | 837 | X | - | - | - |
| 17 | CLA | A | 838 | X | - | - | - |
| 17 | CLA | A | 839 | X | - | - | - |
| 17 | CLA | A | 840 | X | - | - | - |
| 17 | CLA | A | 841 | X | - | - | - |
| 17 | CLA | A | 842 | X | - | - | - |
| 17 | CLA | A | 843 | X | - | - | - |
| 17 | CLA | A | 845 | X | - | - | - |
| 17 | CLA | A | 854 | X | - | - | - |
| 17 | CLA | B | 802 | X | - | - | - |
| 17 | CLA | B | 803 | X | - | - | - |
| 17 | CLA | B | 804 | X | - | - | - |
| 17 | CLA | B | 805 | X | - | - | - |
| 17 | CLA | B | 806 | X | - | - | - |
| 17 | CLA | B | 807 | X | - | - | - |
| 17 | CLA | B | 808 | X | - | - | - |
| 17 | CLA | B | 809 | X | - | - | - |
| 17 | CLA | B | 810 | X | - | - | - |
| 17 | CLA | B | 811 | X | - | - | - |
| 17 | CLA | B | 812 | X | - | - | - |
| 17 | CLA | B | 813 | X | - | - | - |
| 17 | CLA | B | 814 | X | - | - | - |
| 17 | CLA | B | 815 | X | - | - | - |
| 17 | CLA | B | 816 | X | - | - | - |
| 17 | CLA | B | 817 | X | - | - | - |
| 17 | CLA | B | 818 | X | - | - | - |
| 17 | CLA | B | 819 | X | - | - | - |
| 17 | CLA | B | 820 | X | - | - | - |
| 17 | CLA | B | 821 | X | - | - | - |
| 17 | CLA | B | 822 | X | - | - | - |
| 17 | CLA | B | 823 | X | - | - | - |
| 17 | CLA | B | 825 | X | - | - | - |
| 17 | CLA | B | 826 | X | - | - | - |
| 17 | CLA | B | 827 | X | - | - | - |
| 17 | CLA | B | 828 | X | - | - | - |
| 17 | CLA | B | 829 | X | - | - | - |
| 17 | CLA | B | 830 | X | - | - | - |
| 17 | CLA | B | 831 | X | - | - | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 17 | CLA | B | 832 | X | - | - | - |
| 17 | CLA | B | 833 | X | - | - | - |
| 17 | CLA | B | 834 | X | - | - | - |
| 17 | CLA | B | 835 | X | - | - | - |
| 17 | CLA | B | 836 | X | - | - | - |
| 17 | CLA | B | 837 | X | - | - | - |
| 17 | CLA | B | 838 | X | - | - | - |
| 17 | CLA | B | 839 | X | - | - | - |
| 17 | CLA | B | 841 | X | - | - | - |
| 17 | CLA | F | 301 | X | - | - | - |
| 17 | CLA | F | 303 | X | - | - | - |
| 17 | CLA | F | 304 | X | - | - | - |
| 17 | CLA | G | 101 | X | - | - | - |
| 17 | CLA | G | 103 | X | - | - | - |
| 17 | CLA | G | 104 | X | - | - | - |
| 17 | CLA | J | 3002 | X | - | - | - |
| 17 | CLA | K | 4002 | X | - | - | X |
| 17 | CLA | K | 4003 | X | - | - | - |
| 17 | CLA | L | 202 | X | - | - | - |
| 17 | CLA | L | 203 | X | - | - | - |
| 17 | CLA | L | 204 | X | - | - | - |
| 17 | CLA | a | 801 | X | - | - | - |
| 17 | CLA | a | 802 | X | - | - | - |
| 17 | CLA | a | 803 | X | - | - | - |
| 17 | CLA | a | 804 | X | - | - | - |
| 17 | CLA | a | 805 | X | - | - | - |
| 17 | CLA | a | 806 | X | - | - | - |
| 17 | CLA | a | 807 | X | - | - | - |
| 17 | CLA | a | 808 | X | - | - | - |
| 17 | CLA | a | 809 | X | - | - | - |
| 17 | CLA | a | 810 | X | - | - | - |
| 17 | CLA | a | 811 | X | - | - | - |
| 17 | CLA | a | 812 | X | - | - | - |
| 17 | CLA | a | 813 | X | - | - | - |
| 17 | CLA | a | 814 | X | - | - | - |
| 17 | CLA | a | 815 | X | - | - | - |
| 17 | CLA | a | 816 | X | - | - | - |
| 17 | CLA | a | 817 | X | - | - | - |
| 17 | CLA | a | 818 | X | - | - | - |
| 17 | CLA | a | 819 | X | - | - | - |
| 17 | CLA | a | 820 | X | - | - | - |
| 17 | CLA | a | 821 | X | - | - | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 17 | CLA | a | 822 | X | - | - | - |
| 17 | CLA | a | 823 | X | - | - | - |
| 17 | CLA | a | 824 | X | - | - | - |
| 17 | CLA | a | 825 | X | - | - | - |
| 17 | CLA | a | 826 | X | - | - | - |
| 17 | CLA | a | 827 | X | - | - | - |
| 17 | CLA | a | 828 | X | - | - | - |
| 17 | CLA | a | 829 | X | - | - | - |
| 17 | CLA | a | 830 | X | - | - | - |
| 17 | CLA | a | 831 | X | - | - | - |
| 17 | CLA | a | 832 | X | - | - | - |
| 17 | CLA | a | 833 | X | - | - | - |
| 17 | CLA | a | 834 | X | - | - | - |
| 17 | CLA | a | 835 | X | - | - | - |
| 17 | CLA | a | 836 | X | - | - | - |
| 17 | CLA | a | 837 | X | - | - | - |
| 17 | CLA | a | 838 | X | - | - | - |
| 17 | CLA | a | 839 | X | - | - | - |
| 17 | CLA | a | 840 | X | - | - | - |
| 17 | CLA | a | 841 | X | - | - | - |
| 17 | CLA | a | 842 | X | - | - | - |
| 17 | CLA | a | 843 | X | - | - | - |
| 17 | CLA | a | 844 | X | - | - | - |
| 17 | CLA | a | 846 | X | - | - | - |
| 17 | CLA | a | 856 | X | - | - | - |
| 17 | CLA | b | 802 | X | - | - | - |
| 17 | CLA | b | 803 | X | - | - | - |
| 17 | CLA | b | 804 | X | - | - | - |
| 17 | CLA | b | 805 | X | - | - | - |
| 17 | CLA | b | 806 | X | - | - | - |
| 17 | CLA | b | 807 | X | - | - | - |
| 17 | CLA | b | 808 | X | - | - | - |
| 17 | CLA | b | 809 | X | - | - | - |
| 17 | CLA | b | 810 | X | - | - | - |
| 17 | CLA | b | 811 | X | - | - | - |
| 17 | CLA | b | 812 | X | - | - | - |
| 17 | CLA | b | 813 | X | - | - | - |
| 17 | CLA | b | 814 | X | - | - | - |
| 17 | CLA | b | 815 | X | - | - | - |
| 17 | CLA | b | 816 | X | - | - | - |
| 17 | CLA | b | 817 | X | - | - | - |
| 17 | CLA | b | 818 | X | - | - | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|------|-----------|----------|---------|------------------|
| 17 | CLA | b | 819 | X | - | - | - |
| 17 | CLA | b | 820 | X | - | - | - |
| 17 | CLA | b | 821 | X | - | - | - |
| 17 | CLA | b | 822 | X | - | - | - |
| 17 | CLA | b | 823 | X | - | - | - |
| 17 | CLA | b | 824 | X | - | - | - |
| 17 | CLA | b | 825 | X | - | - | - |
| 17 | CLA | b | 826 | X | - | - | - |
| 17 | CLA | b | 827 | X | - | - | - |
| 17 | CLA | b | 828 | X | - | - | - |
| 17 | CLA | b | 829 | X | - | - | - |
| 17 | CLA | b | 830 | X | - | - | - |
| 17 | CLA | b | 831 | X | - | - | - |
| 17 | CLA | b | 832 | X | - | - | - |
| 17 | CLA | b | 833 | X | - | - | - |
| 17 | CLA | b | 834 | X | - | - | - |
| 17 | CLA | b | 835 | X | - | - | - |
| 17 | CLA | b | 836 | X | - | - | - |
| 17 | CLA | b | 837 | X | - | - | - |
| 17 | CLA | b | 838 | X | - | - | - |
| 17 | CLA | b | 839 | X | - | - | - |
| 17 | CLA | b | 840 | X | - | - | - |
| 17 | CLA | b | 841 | X | - | - | - |
| 17 | CLA | f | 7002 | X | - | - | - |
| 17 | CLA | g | 102 | X | - | - | - |
| 17 | CLA | g | 103 | X | - | - | - |
| 17 | CLA | j | 3002 | X | - | - | - |
| 17 | CLA | k | 1401 | X | - | - | - |
| 17 | CLA | k | 1402 | X | - | - | - |
| 17 | CLA | k | 1403 | X | - | - | - |
| 17 | CLA | l | 202 | X | - | - | - |
| 17 | CLA | l | 203 | X | - | - | - |
| 17 | CLA | l | 204 | X | - | - | - |
| 19 | LHG | 3 | 319 | - | - | - | X |
| 20 | BCR | 1 | 318 | - | - | - | X |
| 20 | BCR | 2 | 617 | - | - | - | X |
| 20 | BCR | 7 | 617 | - | - | - | X |
| 20 | BCR | K | 4001 | - | - | - | X |
| 20 | BCR | K | 4004 | - | - | - | X |
| 20 | BCR | L | 206 | - | - | - | X |
| 20 | BCR | l | 206 | - | - | - | X |
| 25 | LMG | 4 | 620 | - | - | - | X |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Chirality | Geometry | Clashes | Electron density |
|-----|------|-------|-----|-----------|----------|---------|------------------|
| 26 | CHL | 1 | 302 | X | - | - | - |
| 26 | CHL | 1 | 307 | X | - | - | - |
| 26 | CHL | 2 | 601 | X | - | - | - |
| 26 | CHL | 2 | 605 | X | - | - | - |
| 26 | CHL | 2 | 606 | X | - | - | - |
| 26 | CHL | 2 | 607 | X | - | - | - |
| 26 | CHL | 2 | 614 | X | - | - | - |
| 26 | CHL | 3 | 307 | X | - | - | - |
| 26 | CHL | 4 | 605 | X | - | - | - |
| 26 | CHL | 4 | 606 | X | - | - | - |
| 26 | CHL | 4 | 607 | X | - | - | - |
| 26 | CHL | 4 | 615 | X | - | - | - |
| 26 | CHL | 6 | 303 | X | - | - | - |
| 26 | CHL | 6 | 308 | X | - | - | - |
| 26 | CHL | 7 | 601 | X | - | - | - |
| 26 | CHL | 7 | 605 | X | - | - | - |
| 26 | CHL | 7 | 606 | X | - | - | - |
| 26 | CHL | 7 | 607 | X | - | - | - |
| 26 | CHL | 7 | 614 | X | - | - | - |
| 26 | CHL | 8 | 306 | X | - | - | - |
| 26 | CHL | 9 | 605 | X | - | - | - |
| 26 | CHL | 9 | 606 | X | - | - | - |
| 26 | CHL | 9 | 607 | X | - | - | - |
| 26 | CHL | 9 | 615 | X | - | - | - |
| 27 | LUT | 6 | 317 | - | - | - | X |
| 27 | LUT | 6 | 321 | - | - | - | X |

2 Entry composition

There are 29 unique types of molecules in this entry. The entry contains 71157 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|------|----|---------|---------|-------|
| 1 | A | 742 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 5846 | 3831 | 994 | 1003 | 18 | | | |
| 1 | a | 742 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 5846 | 3831 | 994 | 1003 | 18 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|------|-----|----|---------|---------|-------|
| 2 | B | 733 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 5863 | 3853 | 1002 | 994 | 14 | | | |
| 2 | b | 733 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 5863 | 3853 | 1002 | 994 | 14 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|----|---------|---------|-------|
| 3 | C | 80 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 611 | 379 | 107 | 114 | 11 | | | |
| 3 | c | 80 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 611 | 379 | 107 | 114 | 11 | | | |

- Molecule 4 is a protein called Uncharacterized protein.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 4 | D | 141 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1114 | 716 | 193 | 202 | 3 | | | |
| 4 | d | 140 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1107 | 712 | 192 | 200 | 3 | | | |

- Molecule 5 is a protein called Putative uncharacterized protein.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---------|---------|-------|
| 5 | E | 63 | Total | C | N | O | 0 | 0 | 0 |
| | | | 507 | 321 | 90 | 96 | | | |
| 5 | e | 63 | Total | C | N | O | 0 | 0 | 0 |
| | | | 506 | 322 | 90 | 94 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 6 | F | 151 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1193 | 776 | 204 | 210 | 3 | | | |
| 6 | f | 151 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1193 | 776 | 204 | 210 | 3 | | | |

- Molecule 7 is a protein called Photosystem I reaction center subunit V, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 7 | G | 95 | Total | C | N | O | 0 | 0 | 0 |
| | | | 741 | 480 | 121 | 140 | | | |
| 7 | g | 95 | Total | C | N | O | 0 | 0 | 0 |
| | | | 737 | 478 | 121 | 138 | | | |

- Molecule 8 is a protein called Putative uncharacterized protein.

| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 8 | H | 90 | Total | C | N | O | 0 | 0 | 0 |
| | | | 678 | 439 | 110 | 129 | | | |
| 8 | h | 90 | Total | C | N | O | 0 | 0 | 0 |
| | | | 682 | 442 | 111 | 129 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 9 | I | 29 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 221 | 153 | 33 | 34 | 1 | | | |
| 9 | i | 30 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 226 | 156 | 34 | 35 | 1 | | | |

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

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 10 | J | 39 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 311 | 211 | 48 | 51 | 1 | | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 10 | j | 39 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 311 | 211 | 48 | 51 | 1 | | | |

- Molecule 11 is a protein called Photosystem I reaction center subunit X psaK.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|----|----|---|---------|---------|-------|
| 11 | K | 45 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 311 | 204 | 48 | 56 | 3 | | | |
| 11 | k | 46 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 316 | 207 | 49 | 57 | 3 | | | |

- Molecule 12 is a protein called Putative uncharacterized protein.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 12 | L | 153 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1136 | 746 | 183 | 206 | 1 | | | |
| 12 | l | 151 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1122 | 738 | 180 | 203 | 1 | | | |

- Molecule 13 is a protein called Chlorophyll a-b binding protein 6, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---|---------|---------|-------|
| 13 | 1 | 195 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1491 | 969 | 249 | 268 | 5 | | | |
| 13 | 6 | 195 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1483 | 963 | 247 | 268 | 5 | | | |

- Molecule 14 is a protein called Type II chlorophyll a/b binding protein from photosystem I.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 14 | 2 | 206 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1610 | 1055 | 263 | 288 | 4 | | | |
| 14 | 7 | 206 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1610 | 1055 | 263 | 288 | 4 | | | |

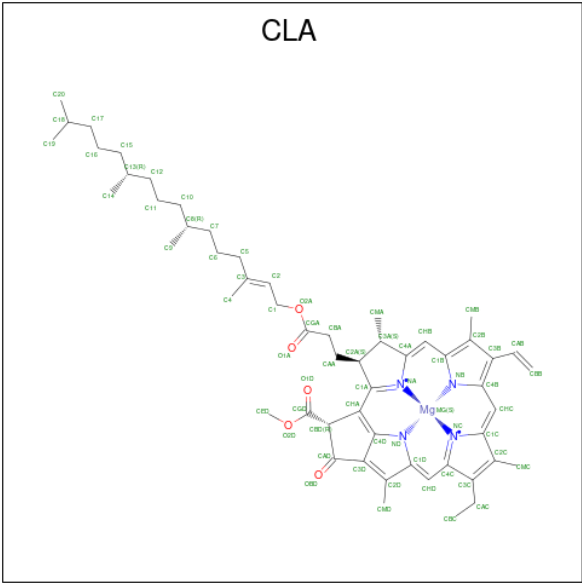
- Molecule 15 is a protein called Chlorophyll a-b binding protein 3, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| 15 | 3 | 218 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1680 | 1100 | 273 | 302 | 5 | | | |
| 15 | 8 | 217 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1672 | 1094 | 272 | 301 | 5 | | | |

- Molecule 16 is a protein called Chlorophyll a-b binding protein P4, chloroplastic.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|---|---------|---------|-------|
| | | | Total | C | N | O | S | | | |
| 16 | 4 | 196 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1540 | 1009 | 251 | 277 | 3 | | | |
| 16 | 9 | 196 | Total | C | N | O | S | 0 | 0 | 0 |
| | | | 1540 | 1009 | 251 | 277 | 3 | | | |

- Molecule 17 is CHLOROPHYLL A (three-letter code: CLA) (formula: C₅₅H₇₂MgN₄O₅).



| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| | | | Total | C | Mg | N | O | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 54 | 44 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 49 | 39 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | A | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------------|---------|---------|--------|--------|---------|---------|
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 50 | C 40 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 50 | C 40 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 51 | C 41 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 52 | C 42 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | A | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | B | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | B | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | B | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | B | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | B | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | B | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 54 | 44 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 59 | 49 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 49 | 39 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 58 | 48 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 47 | 37 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | B | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | F | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | F | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | F | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | G | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | G | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | G | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | J | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | | |
| 17 | K | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------------|---------|---------|--------|--------|---------|---------|
| 17 | K | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | L | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | L | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | L | 1 | Total 50 | C 40 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 52 | C 42 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 52 | C 42 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 60 | C 50 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 41 | C 33 | Mg 1 | N 4 | O 3 | 0 | 0 |
| 17 | 1 | 1 | Total 52 | C 42 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 55 | C 45 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 1 | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 2 | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 2 | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 2 | 1 | Total 60 | C 50 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 2 | 1 | Total 50 | C 40 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | 2 | 1 | Total 60 | C 50 | Mg 1 | N 4 | O 5 | 0 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 41 | 33 | 1 | 4 | 3 | | |
| 17 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |
| 17 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | 2 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 43 | 35 | 1 | 4 | 3 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 47 | 37 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 37 | 31 | 1 | 4 | 1 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | 3 | 1 | Total | C | Mg | N | | 0 | 0 |
| | | | 25 | 20 | 1 | 4 | | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 56 | 46 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | 4 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 54 | 44 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 49 | 39 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | a | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------------|---------|---------|--------|--------|---------|---------|
| 17 | a | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 50 | C 40 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 51 | C 41 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 52 | C 42 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | a | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 54 | 44 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 59 | 49 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | b | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 49 | 39 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------------|---------|---------|--------|--------|---------|---------|
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 58 | C 48 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 60 | C 50 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 47 | C 37 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | b | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | f | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | f | 1 | Total 55 | C 45 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | g | 1 | Total 41 | C 33 | Mg 1 | N 4 | O 3 | 0 | 0 |
| 17 | g | 1 | Total 50 | C 40 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | g | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | j | 1 | Total 42 | C 34 | Mg 1 | N 4 | O 3 | 0 | 0 |
| 17 | k | 1 | Total 45 | C 35 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | k | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | k | 1 | Total 46 | C 36 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | l | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |
| 17 | l | 1 | Total 65 | C 55 | Mg 1 | N 4 | O 5 | 0 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | 1 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 41 | 33 | 1 | 4 | 3 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | 6 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 51 | 41 | 1 | 4 | 5 | | |
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 41 | 33 | 1 | 4 | 3 | | |
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 65 | 55 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

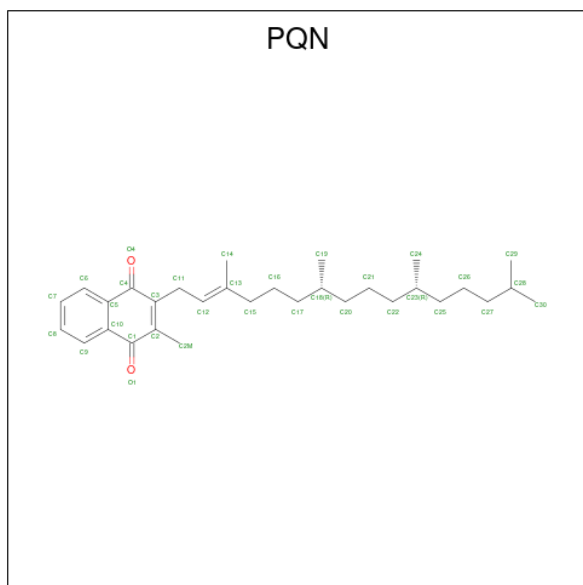
| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 43 | 35 | 1 | 4 | 3 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 42 | 34 | 1 | 4 | 3 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 47 | 37 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 55 | 45 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | 8 | 1 | Total | C | Mg | N | | 0 | 0 |
| | | | 25 | 20 | 1 | 4 | | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 46 | 36 | 1 | 4 | 5 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 50 | 40 | 1 | 4 | 5 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 60 | 50 | 1 | 4 | 5 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 41 | 33 | 1 | 4 | 3 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 52 | 42 | 1 | 4 | 5 | | |

Continued on next page...

Continued from previous page...

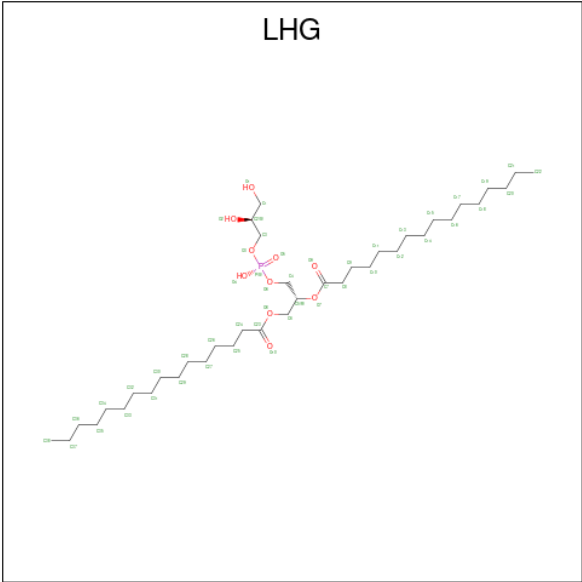
| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 56 | 46 | 1 | 4 | 5 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 45 | 35 | 1 | 4 | 5 | | |
| 17 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 47 | 37 | 1 | 4 | 5 | | |

- Molecule 18 is PHYLLOQUINONE (three-letter code: PQN) (formula: $C_{31}H_{46}O_2$).



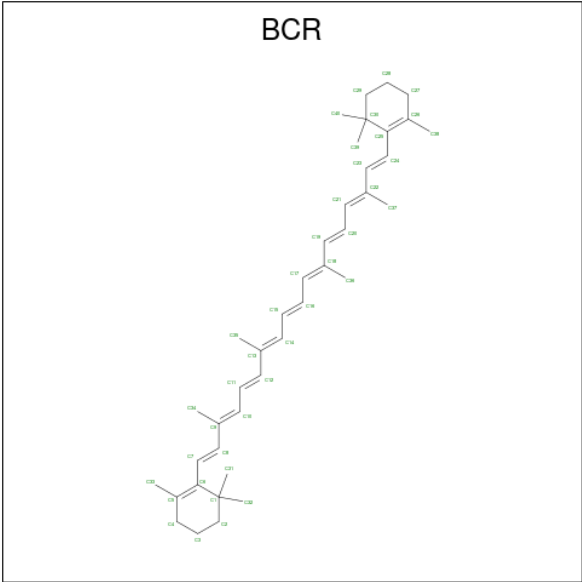
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 18 | A | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |
| 18 | B | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |
| 18 | a | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |
| 18 | b | 1 | Total | C | O | 0 | 0 |
| | | | 33 | 31 | 2 | | |

- Molecule 19 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---------|---------|
| 19 | A | 1 | Total | C | O | P | 0 | 0 |
| | | | 49 | 38 | 10 | 1 | | |
| 19 | A | 1 | Total | C | O | P | 0 | 0 |
| | | | 27 | 16 | 10 | 1 | | |
| 19 | 1 | 1 | Total | C | O | P | 0 | 0 |
| | | | 23 | 12 | 10 | 1 | | |
| 19 | 1 | 1 | Total | C | O | P | 0 | 0 |
| | | | 49 | 38 | 10 | 1 | | |
| 19 | 2 | 1 | Total | C | O | P | 0 | 0 |
| | | | 37 | 26 | 10 | 1 | | |
| 19 | 3 | 1 | Total | C | O | P | 0 | 0 |
| | | | 20 | 10 | 9 | 1 | | |
| 19 | a | 1 | Total | C | O | P | 0 | 0 |
| | | | 49 | 38 | 10 | 1 | | |
| 19 | a | 1 | Total | C | O | P | 0 | 0 |
| | | | 27 | 16 | 10 | 1 | | |
| 19 | 6 | 1 | Total | C | O | P | 0 | 0 |
| | | | 23 | 12 | 10 | 1 | | |
| 19 | 6 | 1 | Total | C | O | P | 0 | 0 |
| | | | 49 | 38 | 10 | 1 | | |
| 19 | 7 | 1 | Total | C | O | P | 0 | 0 |
| | | | 37 | 26 | 10 | 1 | | |

- Molecule 20 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|------------------|---------|---------|
| 20 | A | 1 | Total C 40 40 | 0 | 0 |
| 20 | A | 1 | Total C 40 40 | 0 | 0 |
| 20 | A | 1 | Total C 40 40 | 0 | 0 |
| 20 | A | 1 | Total C 40 40 | 0 | 0 |
| 20 | A | 1 | Total C 40 40 | 0 | 0 |
| 20 | A | 1 | Total C 40 40 | 0 | 0 |
| 20 | B | 1 | Total C 40 40 | 0 | 0 |
| 20 | B | 1 | Total C 40 40 | 0 | 0 |
| 20 | B | 1 | Total C 40 40 | 0 | 0 |
| 20 | B | 1 | Total C 40 40 | 0 | 0 |
| 20 | B | 1 | Total C 40 40 | 0 | 0 |
| 20 | B | 1 | Total C 40 40 | 0 | 0 |
| 20 | B | 1 | Total C 40 40 | 0 | 0 |
| 20 | F | 1 | Total C 40 40 | 0 | 0 |

Continued on next page...

Continued from previous page...

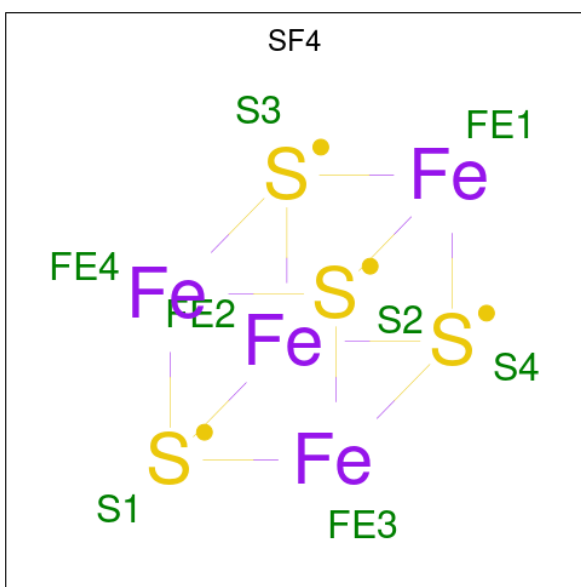
| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|------------------|---------|---------|
| 20 | G | 1 | Total C 40 40 | 0 | 0 |
| 20 | I | 1 | Total C 40 40 | 0 | 0 |
| 20 | J | 1 | Total C 40 40 | 0 | 0 |
| 20 | K | 1 | Total C 40 40 | 0 | 0 |
| 20 | K | 1 | Total C 40 40 | 0 | 0 |
| 20 | L | 1 | Total C 40 40 | 0 | 0 |
| 20 | L | 1 | Total C 40 40 | 0 | 0 |
| 20 | L | 1 | Total C 40 40 | 0 | 0 |
| 20 | 1 | 1 | Total C 40 40 | 0 | 0 |
| 20 | 2 | 1 | Total C 40 40 | 0 | 0 |
| 20 | 3 | 1 | Total C 40 40 | 0 | 0 |
| 20 | 4 | 1 | Total C 40 40 | 0 | 0 |
| 20 | a | 1 | Total C 40 40 | 0 | 0 |
| 20 | a | 1 | Total C 40 40 | 0 | 0 |
| 20 | a | 1 | Total C 40 40 | 0 | 0 |
| 20 | a | 1 | Total C 40 40 | 0 | 0 |
| 20 | a | 1 | Total C 40 40 | 0 | 0 |
| 20 | a | 1 | Total C 40 40 | 0 | 0 |
| 20 | b | 1 | Total C 40 40 | 0 | 0 |
| 20 | b | 1 | Total C 40 40 | 0 | 0 |
| 20 | b | 1 | Total C 40 40 | 0 | 0 |

Continued on next page...

Continued from previous page...

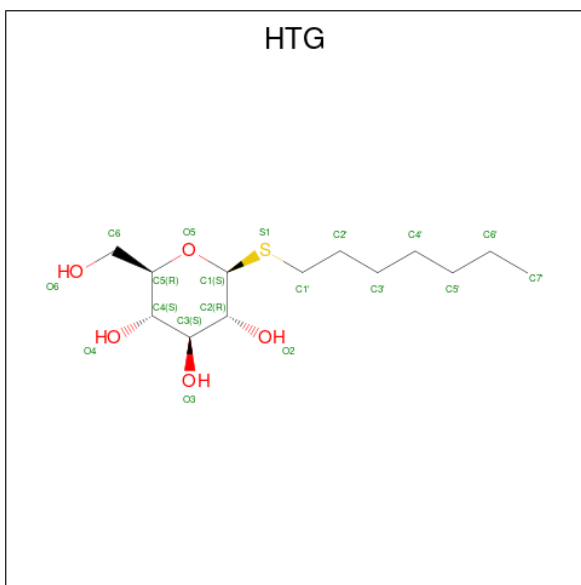
| Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|------------------|---------|---------|
| 20 | b | 1 | Total C 40 40 | 0 | 0 |
| 20 | b | 1 | Total C 40 40 | 0 | 0 |
| 20 | b | 1 | Total C 40 40 | 0 | 0 |
| 20 | b | 1 | Total C 40 40 | 0 | 0 |
| 20 | f | 1 | Total C 40 40 | 0 | 0 |
| 20 | g | 1 | Total C 40 40 | 0 | 0 |
| 20 | i | 1 | Total C 40 40 | 0 | 0 |
| 20 | j | 1 | Total C 40 40 | 0 | 0 |
| 20 | j | 1 | Total C 40 40 | 0 | 0 |
| 20 | k | 1 | Total C 40 40 | 0 | 0 |
| 20 | l | 1 | Total C 40 40 | 0 | 0 |
| 20 | l | 1 | Total C 40 40 | 0 | 0 |
| 20 | l | 1 | Total C 40 40 | 0 | 0 |
| 20 | 6 | 1 | Total C 40 40 | 0 | 0 |
| 20 | 7 | 1 | Total C 40 40 | 0 | 0 |
| 20 | 8 | 1 | Total C 40 40 | 0 | 0 |
| 20 | 9 | 1 | Total C 40 40 | 0 | 0 |

- Molecule 21 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



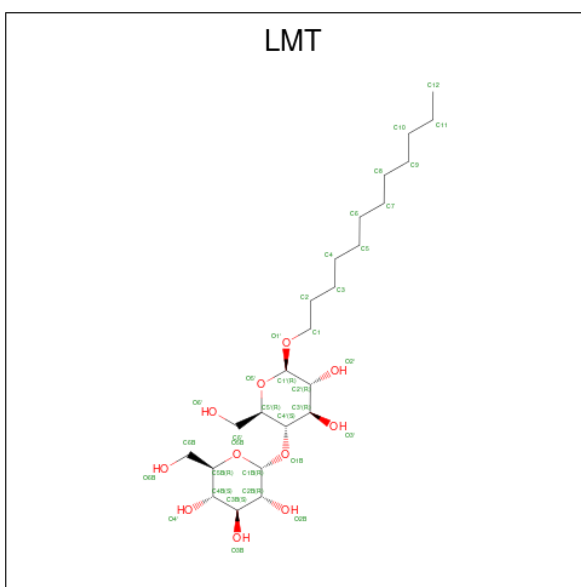
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 21 | A | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 21 | C | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 21 | C | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 21 | a | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 21 | c | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |
| 21 | c | 1 | Total | Fe | S | 0 | 0 |
| | | | 8 | 4 | 4 | | |

- Molecule 22 is heptyl 1-thio-beta-D-glucopyranoside (three-letter code: HTG) (formula: C₁₃H₂₆O₅S).



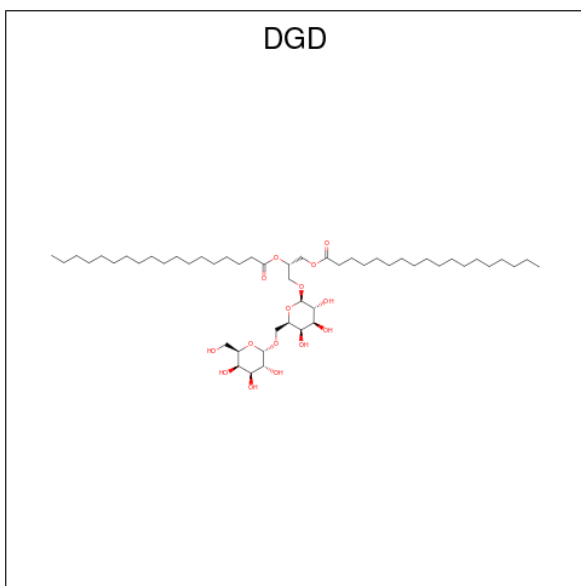
| Mol | Chain | Residues | Atoms | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---|---------|---------|
| 22 | A | 1 | Total | C | O | S | 0 | 0 |
| | | | 19 | 13 | 5 | 1 | | |
| 22 | F | 1 | Total | C | O | S | 0 | 0 |
| | | | 19 | 13 | 5 | 1 | | |
| 22 | J | 1 | Total | C | O | S | 0 | 0 |
| | | | 19 | 13 | 5 | 1 | | |
| 22 | a | 1 | Total | C | O | S | 0 | 0 |
| | | | 19 | 13 | 5 | 1 | | |
| 22 | f | 1 | Total | C | O | S | 0 | 0 |
| | | | 19 | 13 | 5 | 1 | | |
| 22 | j | 1 | Total | C | O | S | 0 | 0 |
| | | | 19 | 13 | 5 | 1 | | |

- Molecule 23 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



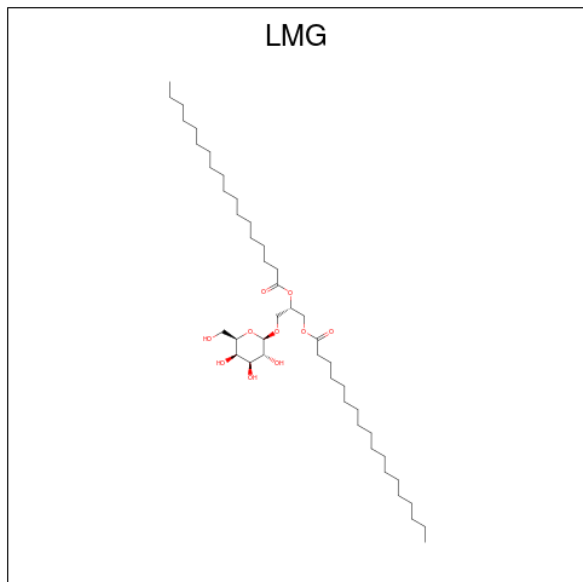
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---------|---------|
| 23 | B | 1 | Total | C | O | 0 | 0 |
| | | | 35 | 24 | 11 | | |

- Molecule 24 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).



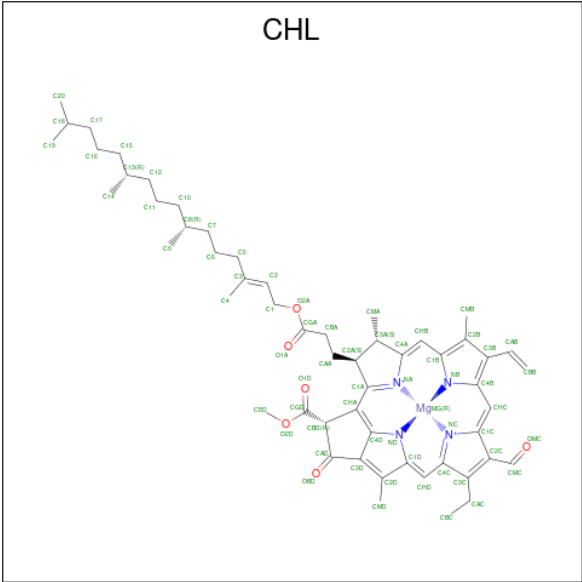
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------------|---------|---------|---------|---------|
| 24 | B | 1 | Total 66 | C 51 | O 15 | 0 | 0 |
| 24 | b | 1 | Total 66 | C 51 | O 15 | 0 | 0 |

- Molecule 25 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---------|---------|
| 25 | G | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 34 | 10 | | |
| 25 | 4 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 34 | 10 | | |
| 25 | 4 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 34 | 10 | | |
| 25 | 6 | 1 | Total | C | O | 0 | 0 |
| | | | 40 | 30 | 10 | | |
| 25 | 9 | 1 | Total | C | O | 0 | 0 |
| | | | 50 | 40 | 10 | | |

- Molecule 26 is CHLOROPHYLL B (three-letter code: CHL) (formula: $C_{55}H_{70}MgN_4O_6$).



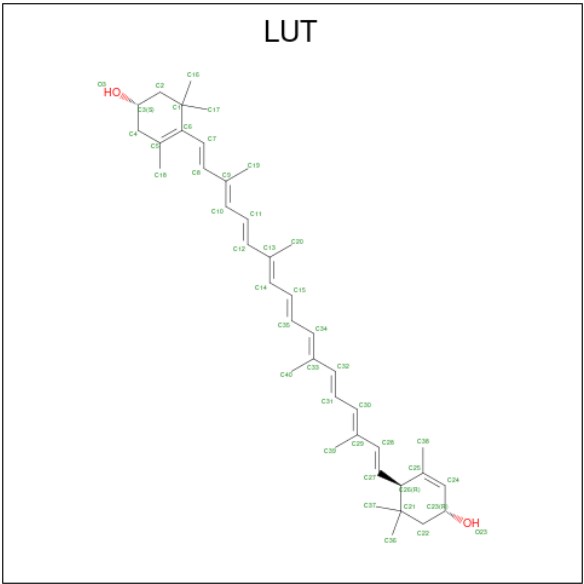
| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------------|---------|---------|--------|--------|---------|---------|
| 26 | 1 | 1 | Total 61 | C 50 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 1 | 1 | Total 48 | C 37 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 2 | 1 | Total 61 | C 50 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 2 | 1 | Total 43 | C 34 | Mg 1 | N 4 | O 4 | 0 | 0 |
| 26 | 2 | 1 | Total 48 | C 37 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 2 | 1 | Total 51 | C 40 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 2 | 1 | Total 43 | C 34 | Mg 1 | N 4 | O 4 | 0 | 0 |
| 26 | 3 | 1 | Total 47 | C 36 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 4 | 1 | Total 56 | C 45 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 4 | 1 | Total 51 | C 40 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 4 | 1 | Total 51 | C 40 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 4 | 1 | Total 43 | C 34 | Mg 1 | N 4 | O 4 | 0 | 0 |
| 26 | 6 | 1 | Total 61 | C 50 | Mg 1 | N 4 | O 6 | 0 | 0 |
| 26 | 6 | 1 | Total 47 | C 36 | Mg 1 | N 4 | O 6 | 0 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|----|---|---|---------|---------|
| 26 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 61 | 50 | 1 | 4 | 6 | | |
| 26 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 43 | 34 | 1 | 4 | 4 | | |
| 26 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 48 | 37 | 1 | 4 | 6 | | |
| 26 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 51 | 40 | 1 | 4 | 6 | | |
| 26 | 7 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 43 | 34 | 1 | 4 | 4 | | |
| 26 | 8 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 47 | 36 | 1 | 4 | 6 | | |
| 26 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 56 | 45 | 1 | 4 | 6 | | |
| 26 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 51 | 40 | 1 | 4 | 6 | | |
| 26 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 51 | 40 | 1 | 4 | 6 | | |
| 26 | 9 | 1 | Total | C | Mg | N | O | 0 | 0 |
| | | | 43 | 34 | 1 | 4 | 4 | | |

- Molecule 27 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (three-letter code: LUT) (formula: C₄₀H₅₆O₂).



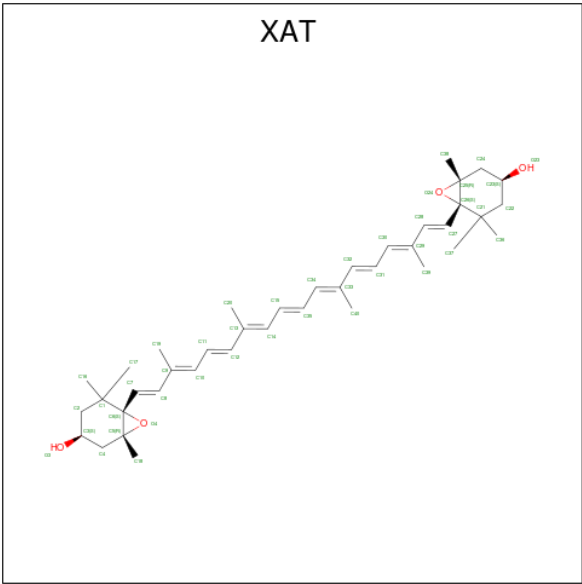
| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 27 | 1 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 27 | 1 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |
| 27 | 2 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |
| 27 | 3 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |
| 27 | 4 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |
| 27 | 6 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |
| 27 | 6 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |
| 27 | 7 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |
| 27 | 8 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |
| 27 | 9 | 1 | Total | C | O | 0 | 0 |
| | | | 42 | 40 | 2 | | |

- Molecule 28 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'- TETRAHYDRO-BETA ,BETA-CAROTENE-3,3'-DIOL (three-letter code: XAT) (formula: C₄₀H₅₆O₄).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 28 | 1 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 40 | 4 | | |
| 28 | 2 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 40 | 4 | | |

Continued on next page...

Continued from previous page...

| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---|---------|---------|
| 28 | 3 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 40 | 4 | | |
| 28 | 4 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 40 | 4 | | |
| 28 | 6 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 40 | 4 | | |
| 28 | 7 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 40 | 4 | | |
| 28 | 8 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 40 | 4 | | |
| 28 | 9 | 1 | Total | C | O | 0 | 0 |
| | | | 44 | 40 | 4 | | |

- Molecule 29 is water.

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|-------|----|---------|---------|
| 29 | A | 29 | Total | O | 0 | 0 |
| | | | 29 | 29 | | |
| 29 | B | 42 | Total | O | 0 | 0 |
| | | | 42 | 42 | | |
| 29 | C | 1 | Total | O | 0 | 0 |
| | | | 1 | 1 | | |
| 29 | D | 2 | Total | O | 0 | 0 |
| | | | 2 | 2 | | |
| 29 | F | 5 | Total | O | 0 | 0 |
| | | | 5 | 5 | | |
| 29 | I | 1 | Total | O | 0 | 0 |
| | | | 1 | 1 | | |
| 29 | L | 1 | Total | O | 0 | 0 |
| | | | 1 | 1 | | |
| 29 | 1 | 3 | Total | O | 0 | 0 |
| | | | 3 | 3 | | |
| 29 | 2 | 4 | Total | O | 0 | 0 |
| | | | 4 | 4 | | |
| 29 | 3 | 3 | Total | O | 0 | 0 |
| | | | 3 | 3 | | |
| 29 | 4 | 6 | Total | O | 0 | 0 |
| | | | 6 | 6 | | |
| 29 | a | 30 | Total | O | 0 | 0 |
| | | | 30 | 30 | | |
| 29 | b | 32 | Total | O | 0 | 0 |
| | | | 32 | 32 | | |

Continued on next page...

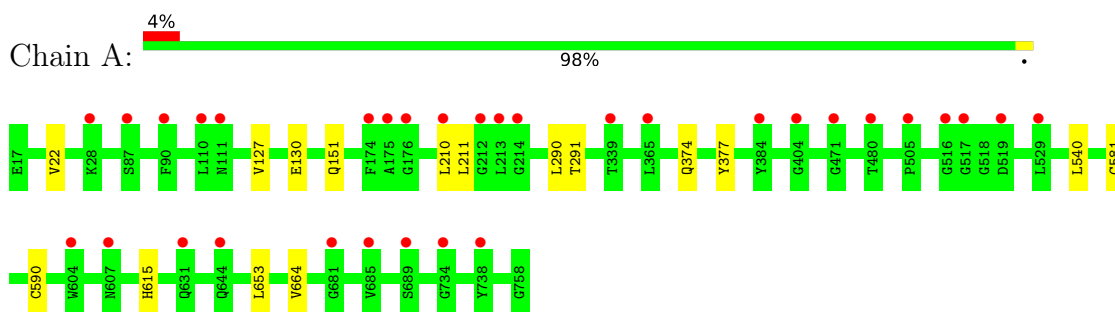
Continued from previous page...

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|------------|--------|---------|---------|
| 29 | d | 1 | Total 1 | O 1 | 0 | 0 |
| 29 | f | 4 | Total 4 | O 4 | 0 | 0 |
| 29 | h | 1 | Total 1 | O 1 | 0 | 0 |
| 29 | l | 3 | Total 3 | O 3 | 0 | 0 |
| 29 | 6 | 3 | Total 3 | O 3 | 0 | 0 |
| 29 | 7 | 6 | Total 6 | O 6 | 0 | 0 |
| 29 | 8 | 3 | Total 3 | O 3 | 0 | 0 |
| 29 | 9 | 5 | Total 5 | O 5 | 0 | 0 |

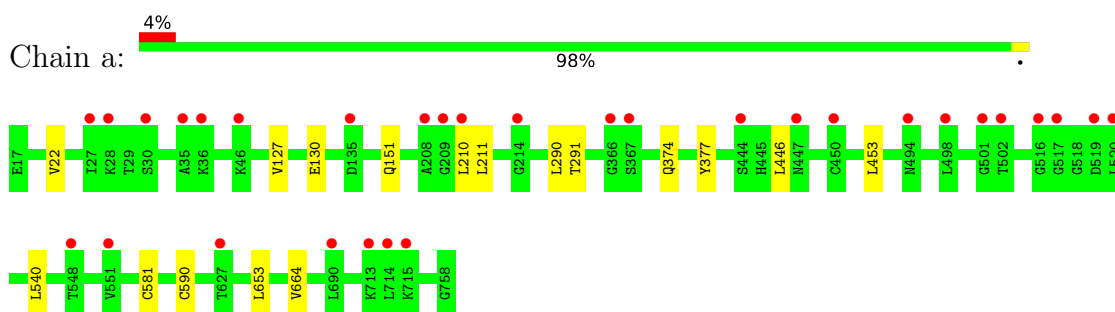
3 Residue-property plots [i](#)

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

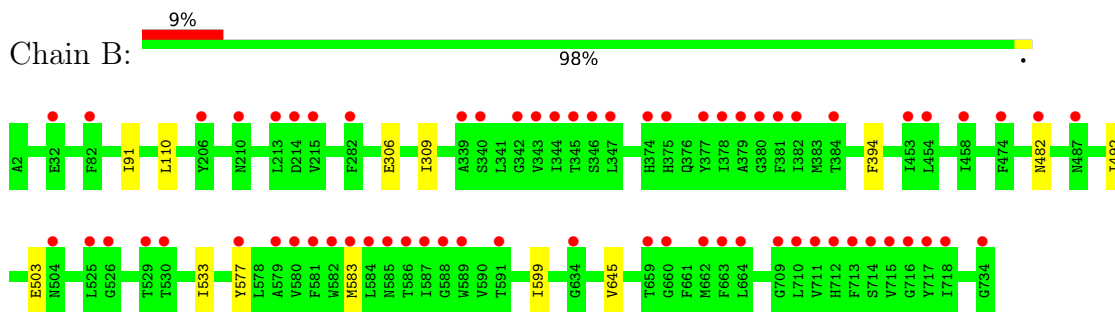
- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1



- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1

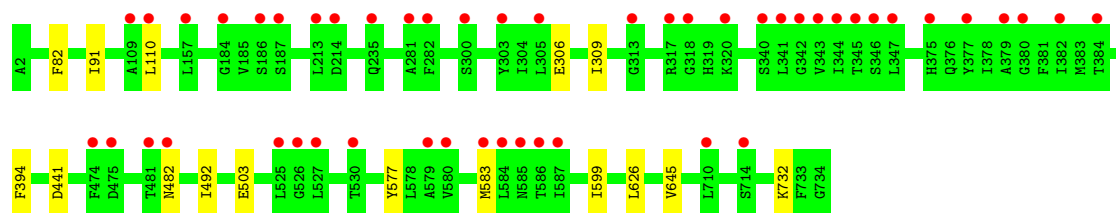


- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

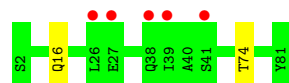


- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2





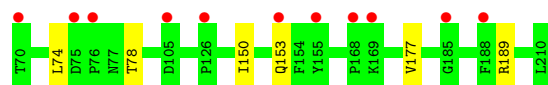
- Molecule 3: Photosystem I iron-sulfur center



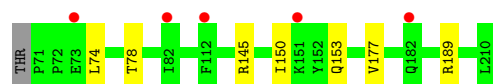
- Molecule 3: Photosystem I iron-sulfur center



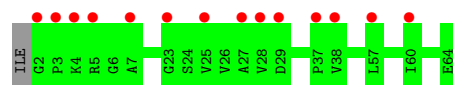
- Molecule 4: Uncharacterized protein



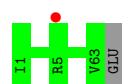
- Molecule 4: Uncharacterized protein



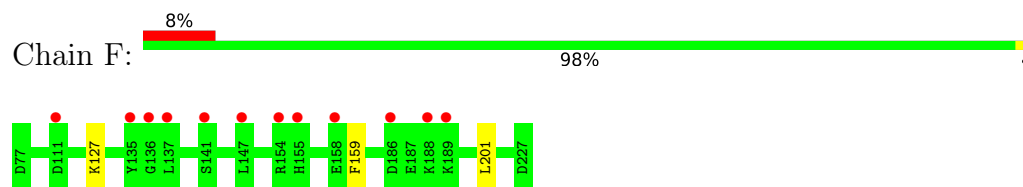
- Molecule 5: Putative uncharacterized protein



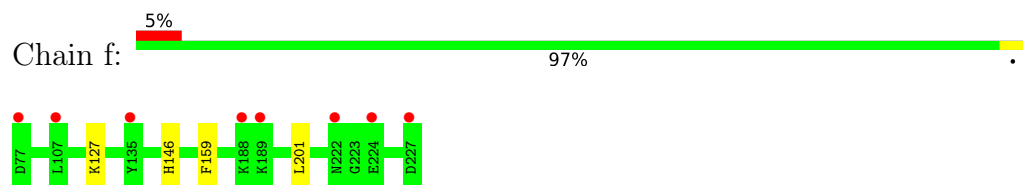
- Molecule 5: Putative uncharacterized protein



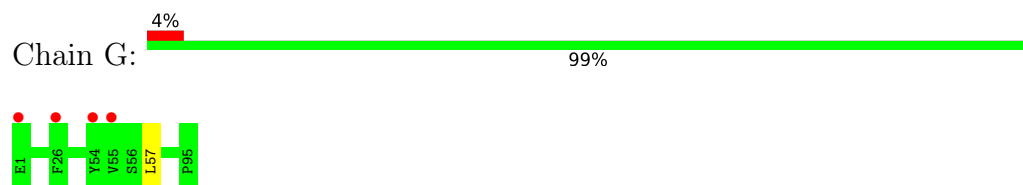
- Molecule 6: Photosystem I reaction center subunit III, chloroplastic



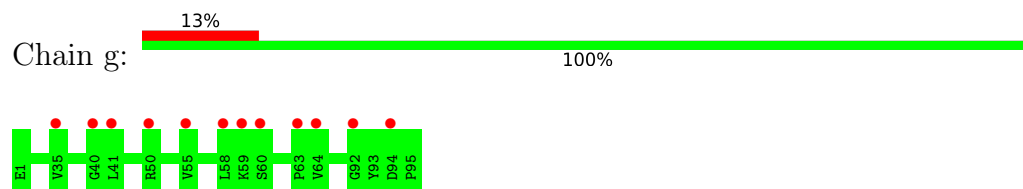
- Molecule 6: Photosystem I reaction center subunit III, chloroplastic



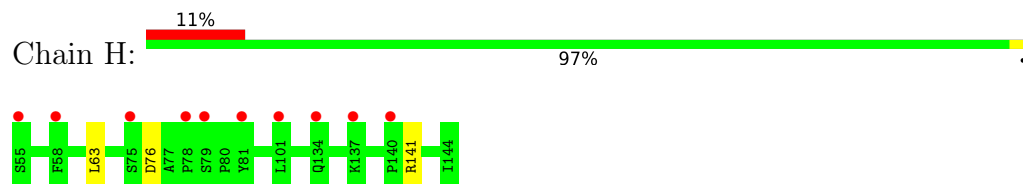
- Molecule 7: Photosystem I reaction center subunit V, chloroplastic



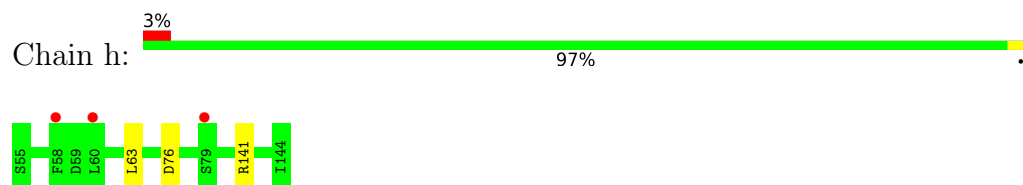
- Molecule 7: Photosystem I reaction center subunit V, chloroplastic



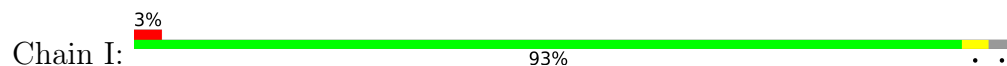
- Molecule 8: Putative uncharacterized protein

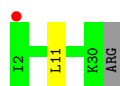


- Molecule 8: Putative uncharacterized protein

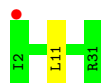


- Molecule 9: Photosystem I reaction center subunit VIII

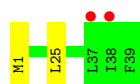




- Molecule 9: Photosystem I reaction center subunit VIII



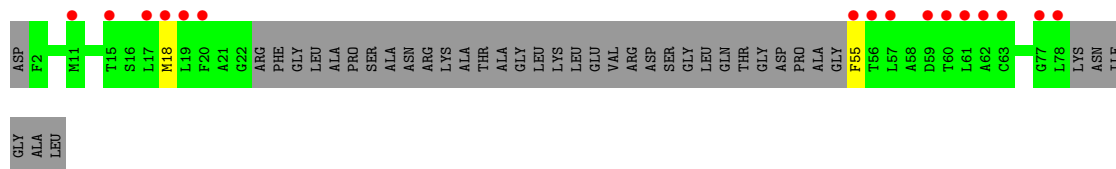
- Molecule 10: Photosystem I reaction center subunit IX



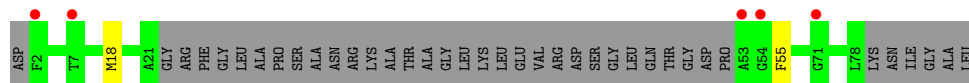
- Molecule 10: Photosystem I reaction center subunit IX



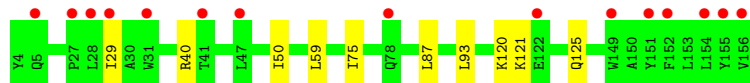
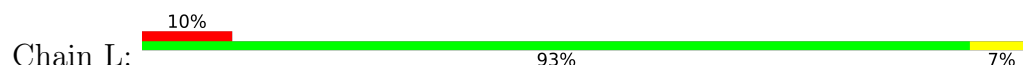
- Molecule 11: Photosystem I reaction center subunit X psaK




- Molecule 11: Photosystem I reaction center subunit X psaK



- Molecule 12: Putative uncharacterized protein



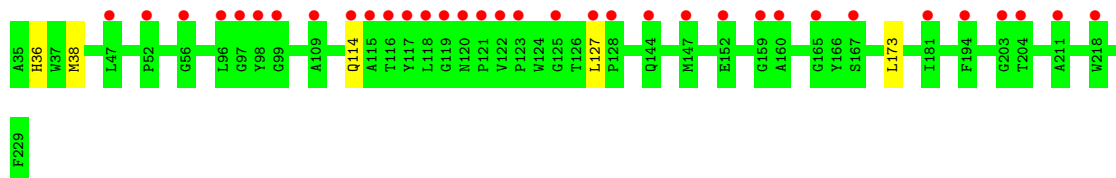
- Molecule 12: Putative uncharacterized protein

Chain 1:  92% 7% .



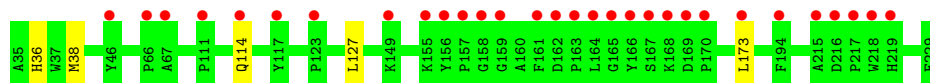
- Molecule 13: Chlorophyll a-b binding protein 6, chloroplastic

Chain 1:  17% 97% .



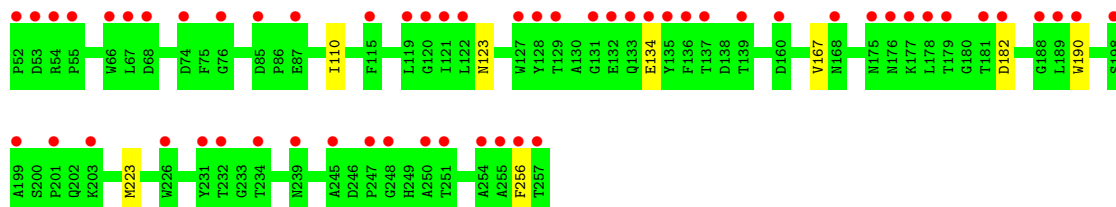
- Molecule 13: Chlorophyll a-b binding protein 6, chloroplastic

Chain 6:  15% 97% .



- Molecule 14: Type II chlorophyll a/b binding protein from photosystem I

Chain 2:  28% 96% .



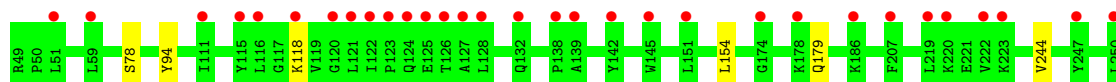
- Molecule 14: Type II chlorophyll a/b binding protein from photosystem I

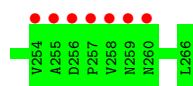
Chain 7:  15% 96% .



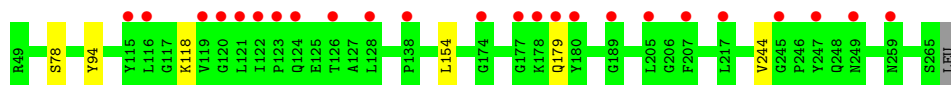
- Molecule 15: Chlorophyll a-b binding protein 3, chloroplastic

Chain 3:  17% 97% .

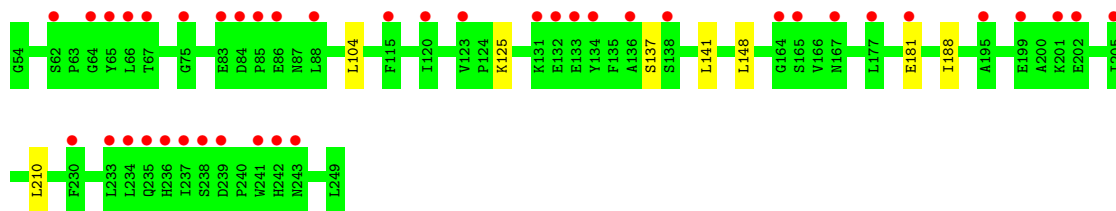




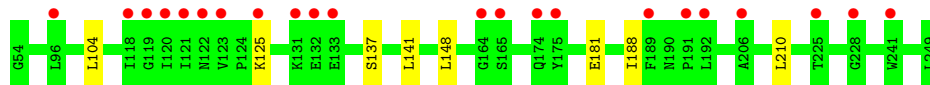
- Molecule 15: Chlorophyll a-b binding protein 3, chloroplastic



- Molecule 16: Chlorophyll a-b binding protein P4, chloroplastic



- Molecule 16: Chlorophyll a-b binding protein P4, chloroplastic



4 Data and refinement statistics

| Property | Value | Source |
|---|---|------------------|
| Space group | P 1 21 1 | Depositor |
| Cell constants a, b, c, α , β , γ | 165.62Å 192.22Å 175.09Å 90.00° 91.41° 90.00° | Depositor |
| Resolution (Å) | 49.15 – 2.80 49.15 – 2.80 | Depositor EDS |
| % Data completeness (in resolution range) | 99.8 (49.15-2.80) 99.8 (49.15-2.80) | Depositor EDS |
| R_{merge} | (Not available) | Depositor |
| R_{sym} | (Not available) | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 1.09 (at 2.81Å) | Xtriage |
| Refinement program | PHENIX 1.8_1069 | Depositor |
| R, R_{free} | 0.210 , 0.248 0.212 , 0.249 | Depositor DCC |
| R_{free} test set | 13503 reflections (5.03%) | wwPDB-VP |
| Wilson B-factor (Å ²) | 79.2 | Xtriage |
| Anisotropy | 0.137 | Xtriage |
| Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²) | 0.31 , 46.5 | EDS |
| L-test for twinning ² | $\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$ | Xtriage |
| Estimated twinning fraction | 0.004 for h,-k,-l | Xtriage |
| F_o, F_c correlation | 0.93 | EDS |
| Total number of atoms | 71157 | wwPDB-VP |
| Average B, all atoms (Å ²) | 72.0 | wwPDB-VP |

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.96% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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: CHL, LMG, XAT, DGD, CLA, SF4, LUT, LMT, HTG, PQN, 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 | A | 0.25 | 0/6043 | 0.41 | 0/8245 |
| 1 | a | 0.26 | 0/6043 | 0.42 | 0/8245 |
| 2 | B | 0.25 | 0/6077 | 0.42 | 0/8299 |
| 2 | b | 0.25 | 0/6077 | 0.42 | 0/8299 |
| 3 | C | 0.22 | 0/624 | 0.41 | 0/846 |
| 3 | c | 0.23 | 0/624 | 0.43 | 0/846 |
| 4 | D | 0.23 | 0/1143 | 0.42 | 0/1545 |
| 4 | d | 0.24 | 0/1136 | 0.43 | 0/1534 |
| 5 | E | 0.21 | 0/517 | 0.39 | 0/701 |
| 5 | e | 0.21 | 0/516 | 0.39 | 0/700 |
| 6 | F | 0.23 | 0/1221 | 0.40 | 0/1648 |
| 6 | f | 0.24 | 0/1221 | 0.40 | 0/1648 |
| 7 | G | 0.24 | 0/759 | 0.39 | 0/1033 |
| 7 | g | 0.24 | 0/755 | 0.40 | 0/1028 |
| 8 | H | 0.22 | 0/697 | 0.39 | 0/950 |
| 8 | h | 0.22 | 0/701 | 0.40 | 0/954 |
| 9 | I | 0.26 | 0/227 | 0.44 | 0/310 |
| 9 | i | 0.26 | 0/232 | 0.44 | 0/317 |
| 10 | J | 0.24 | 0/319 | 0.40 | 0/434 |
| 10 | j | 0.24 | 0/319 | 0.41 | 0/434 |
| 11 | K | 0.22 | 0/314 | 0.37 | 0/426 |
| 11 | k | 0.24 | 0/319 | 0.38 | 0/433 |
| 12 | L | 0.23 | 0/1167 | 0.43 | 0/1596 |
| 12 | l | 0.25 | 0/1153 | 0.44 | 0/1577 |
| 13 | 1 | 0.24 | 0/1539 | 0.40 | 0/2099 |
| 13 | 6 | 0.23 | 0/1531 | 0.38 | 0/2091 |
| 14 | 2 | 0.23 | 0/1670 | 0.40 | 0/2288 |
| 14 | 7 | 0.23 | 0/1670 | 0.39 | 0/2288 |
| 15 | 3 | 0.25 | 0/1732 | 0.39 | 0/2352 |
| 15 | 8 | 0.25 | 0/1724 | 0.39 | 0/2341 |
| 16 | 4 | 0.24 | 0/1589 | 0.40 | 0/2168 |
| 16 | 9 | 0.23 | 0/1589 | 0.39 | 0/2168 |

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|---------|-------------|---------|
| | | RMSZ | # Z >5 | RMSZ | # Z >5 |
| All | All | 0.24 | 0/51248 | 0.41 | 0/69843 |

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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 X-ray entries followed by that with respect to entries of similar resolution.

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 | A | 740/742 (100%) | 710 (96%) | 28 (4%) | 2 (0%) | 41 | 72 |
| 1 | a | 740/742 (100%) | 709 (96%) | 29 (4%) | 2 (0%) | 41 | 72 |
| 2 | B | 731/733 (100%) | 700 (96%) | 30 (4%) | 1 (0%) | 51 | 81 |
| 2 | b | 731/733 (100%) | 700 (96%) | 30 (4%) | 1 (0%) | 51 | 81 |
| 3 | C | 78/80 (98%) | 74 (95%) | 4 (5%) | 0 | 100 | 100 |
| 3 | c | 78/80 (98%) | 73 (94%) | 5 (6%) | 0 | 100 | 100 |
| 4 | D | 139/141 (99%) | 135 (97%) | 4 (3%) | 0 | 100 | 100 |
| 4 | d | 138/141 (98%) | 135 (98%) | 3 (2%) | 0 | 100 | 100 |
| 5 | E | 61/64 (95%) | 59 (97%) | 2 (3%) | 0 | 100 | 100 |
| 5 | e | 61/64 (95%) | 59 (97%) | 2 (3%) | 0 | 100 | 100 |
| 6 | F | 149/151 (99%) | 147 (99%) | 1 (1%) | 1 (1%) | 22 | 53 |
| 6 | f | 149/151 (99%) | 147 (99%) | 1 (1%) | 1 (1%) | 22 | 53 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|----------|-------------|-----|
| 7 | G | 93/95 (98%) | 89 (96%) | 4 (4%) | 0 | 100 | 100 |
| 7 | g | 93/95 (98%) | 90 (97%) | 3 (3%) | 0 | 100 | 100 |
| 8 | H | 88/90 (98%) | 87 (99%) | 1 (1%) | 0 | 100 | 100 |
| 8 | h | 88/90 (98%) | 87 (99%) | 1 (1%) | 0 | 100 | 100 |
| 9 | I | 27/30 (90%) | 25 (93%) | 2 (7%) | 0 | 100 | 100 |
| 9 | i | 28/30 (93%) | 26 (93%) | 2 (7%) | 0 | 100 | 100 |
| 10 | J | 37/39 (95%) | 37 (100%) | 0 | 0 | 100 | 100 |
| 10 | j | 37/39 (95%) | 37 (100%) | 0 | 0 | 100 | 100 |
| 11 | K | 41/84 (49%) | 41 (100%) | 0 | 0 | 100 | 100 |
| 11 | k | 42/84 (50%) | 42 (100%) | 0 | 0 | 100 | 100 |
| 12 | L | 151/153 (99%) | 145 (96%) | 6 (4%) | 0 | 100 | 100 |
| 12 | l | 149/153 (97%) | 143 (96%) | 6 (4%) | 0 | 100 | 100 |
| 13 | 1 | 193/195 (99%) | 187 (97%) | 6 (3%) | 0 | 100 | 100 |
| 13 | 6 | 193/195 (99%) | 189 (98%) | 4 (2%) | 0 | 100 | 100 |
| 14 | 2 | 204/206 (99%) | 196 (96%) | 8 (4%) | 0 | 100 | 100 |
| 14 | 7 | 204/206 (99%) | 195 (96%) | 9 (4%) | 0 | 100 | 100 |
| 15 | 3 | 216/218 (99%) | 206 (95%) | 10 (5%) | 0 | 100 | 100 |
| 15 | 8 | 215/218 (99%) | 204 (95%) | 11 (5%) | 0 | 100 | 100 |
| 16 | 4 | 194/196 (99%) | 184 (95%) | 9 (5%) | 1 (0%) | 29 | 61 |
| 16 | 9 | 194/196 (99%) | 183 (94%) | 10 (5%) | 1 (0%) | 29 | 61 |
| All | All | 6282/6434 (98%) | 6041 (96%) | 231 (4%) | 10 (0%) | 47 | 78 |

5 of 10 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 6 | F | 159 | PHE |
| 6 | f | 159 | PHE |
| 1 | A | 581 | CYS |
| 16 | 9 | 137 | SER |
| 16 | 4 | 137 | SER |

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar

resolution.

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 | A | 602/602 (100%) | 588 (98%) | 14 (2%) | 50 | 82 |
| 1 | a | 602/602 (100%) | 587 (98%) | 15 (2%) | 47 | 80 |
| 2 | B | 597/597 (100%) | 585 (98%) | 12 (2%) | 55 | 84 |
| 2 | b | 597/597 (100%) | 582 (98%) | 15 (2%) | 47 | 80 |
| 3 | C | 69/69 (100%) | 67 (97%) | 2 (3%) | 42 | 76 |
| 3 | c | 69/69 (100%) | 67 (97%) | 2 (3%) | 42 | 76 |
| 4 | D | 119/120 (99%) | 113 (95%) | 6 (5%) | 24 | 56 |
| 4 | d | 118/120 (98%) | 111 (94%) | 7 (6%) | 19 | 49 |
| 5 | E | 55/56 (98%) | 55 (100%) | 0 | 100 | 100 |
| 5 | e | 55/56 (98%) | 55 (100%) | 0 | 100 | 100 |
| 6 | F | 123/125 (98%) | 121 (98%) | 2 (2%) | 62 | 88 |
| 6 | f | 123/125 (98%) | 120 (98%) | 3 (2%) | 49 | 81 |
| 7 | G | 81/81 (100%) | 80 (99%) | 1 (1%) | 71 | 92 |
| 7 | g | 80/81 (99%) | 80 (100%) | 0 | 100 | 100 |
| 8 | H | 72/73 (99%) | 69 (96%) | 3 (4%) | 30 | 63 |
| 8 | h | 73/73 (100%) | 70 (96%) | 3 (4%) | 30 | 64 |
| 9 | I | 25/26 (96%) | 24 (96%) | 1 (4%) | 31 | 65 |
| 9 | i | 25/26 (96%) | 24 (96%) | 1 (4%) | 31 | 65 |
| 10 | J | 33/33 (100%) | 31 (94%) | 2 (6%) | 18 | 48 |
| 10 | j | 33/33 (100%) | 31 (94%) | 2 (6%) | 18 | 48 |
| 11 | K | 34/62 (55%) | 32 (94%) | 2 (6%) | 19 | 49 |
| 11 | k | 34/62 (55%) | 32 (94%) | 2 (6%) | 19 | 49 |
| 12 | L | 118/119 (99%) | 108 (92%) | 10 (8%) | 10 | 31 |
| 12 | l | 117/119 (98%) | 107 (92%) | 10 (8%) | 10 | 31 |
| 13 | 1 | 149/153 (97%) | 144 (97%) | 5 (3%) | 37 | 71 |
| 13 | 6 | 147/153 (96%) | 142 (97%) | 5 (3%) | 37 | 71 |
| 14 | 2 | 166/166 (100%) | 158 (95%) | 8 (5%) | 25 | 58 |
| 14 | 7 | 166/166 (100%) | 158 (95%) | 8 (5%) | 25 | 58 |
| 15 | 3 | 169/169 (100%) | 163 (96%) | 6 (4%) | 35 | 69 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-----------------|------------|----------|-------------|----|
| 15 | 8 | 168/169 (99%) | 162 (96%) | 6 (4%) | 35 | 69 |
| 16 | 4 | 161/161 (100%) | 154 (96%) | 7 (4%) | 29 | 62 |
| 16 | 9 | 161/161 (100%) | 154 (96%) | 7 (4%) | 29 | 62 |
| All | All | 5141/5224 (98%) | 4974 (97%) | 167 (3%) | 39 | 73 |

5 of 167 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 4 | d | 145 | ARG |
| 13 | 6 | 114 | GLN |
| 4 | d | 189 | ARG |
| 11 | k | 55 | PHE |
| 14 | 7 | 190 | TRP |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 30 such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 15 | 3 | 99 | ASN |
| 16 | 9 | 150 | HIS |
| 16 | 4 | 168 | GLN |
| 16 | 9 | 232 | ASN |
| 13 | 6 | 114 | GLN |

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry

414 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$ |
| 17 | CLA | L | 203 | 12 | 65,73,73 | 2.08 | 17 (26%) | 76,113,113 | 2.80 | 28 (36%) |
| 20 | BCR | a | 852 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.94 | 17 (30%) |
| 17 | CLA | B | 841 | 19 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.77 | 27 (35%) |
| 17 | CLA | 7 | 603 | 14 | 51,59,73 | 2.36 | 16 (31%) | 59,96,113 | 3.02 | 27 (45%) |
| 17 | CLA | 1 | 308 | 29 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.69 | 26 (34%) |
| 17 | CLA | b | 817 | 2 | 59,67,73 | 2.21 | 17 (28%) | 68,105,113 | 2.84 | 29 (42%) |
| 20 | BCR | a | 849 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.96 | 14 (25%) |
| 20 | BCR | b | 843 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.93 | 14 (25%) |
| 17 | CLA | B | 813 | 2 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.69 | 27 (35%) |
| 19 | LHG | 2 | 618 | 17 | 36,36,48 | 1.08 | 2 (5%) | 39,42,54 | 1.16 | 3 (7%) |
| 17 | CLA | a | 807 | 1 | 65,73,73 | 2.07 | 16 (24%) | 76,113,113 | 2.77 | 29 (38%) |
| 17 | CLA | B | 803 | 2 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.67 | 29 (38%) |
| 17 | CLA | a | 828 | 1 | 65,73,73 | 2.04 | 16 (24%) | 76,113,113 | 2.74 | 25 (32%) |
| 27 | LUT | 8 | 314 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 1.47 | 11 (21%) |
| 17 | CLA | k | 1403 | - | 46,54,73 | 2.52 | 17 (36%) | 53,90,113 | 3.17 | 26 (49%) |
| 19 | LHG | a | 847 | - | 48,48,48 | 0.93 | 2 (4%) | 51,54,54 | 1.06 | 3 (5%) |
| 17 | CLA | B | 828 | 2 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.72 | 26 (34%) |
| 17 | CLA | A | 841 | 1 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.71 | 23 (30%) |
| 17 | CLA | a | 802 | 1 | 65,73,73 | 2.07 | 14 (21%) | 76,113,113 | 2.65 | 32 (42%) |
| 17 | CLA | b | 835 | 29 | 45,53,73 | 2.52 | 17 (37%) | 52,89,113 | 3.13 | 25 (48%) |
| 17 | CLA | A | 801 | 1 | 65,73,73 | 2.07 | 16 (24%) | 76,113,113 | 2.71 | 32 (42%) |
| 17 | CLA | B | 802 | 2 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.75 | 29 (38%) |
| 17 | CLA | a | 809 | 1 | 65,73,73 | 2.07 | 15 (23%) | 76,113,113 | 2.80 | 26 (34%) |
| 17 | CLA | a | 808 | 1 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.72 | 26 (34%) |
| 17 | CLA | f | 7002 | 29 | 45,53,73 | 2.48 | 16 (35%) | 52,89,113 | 3.16 | 26 (50%) |
| 17 | CLA | 3 | 304 | 29 | 45,53,73 | 2.52 | 17 (37%) | 52,89,113 | 3.16 | 24 (46%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 26 | CHL | 8 | 306 | 29 | 47,55,74 | 2.33 | 16 (34%) | 50,91,114 | 3.36 | 22 (44%) |
| 17 | CLA | a | 842 | 29 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.67 | 26 (34%) |
| 17 | CLA | 9 | 610 | 29 | 41,49,73 | 2.57 | 16 (39%) | 47,84,113 | 3.32 | 24 (51%) |
| 17 | CLA | 8 | 312 | 15 | 46,54,73 | 2.47 | 17 (36%) | 53,90,113 | 3.17 | 25 (47%) |
| 17 | CLA | b | 825 | 29 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.71 | 28 (36%) |
| 17 | CLA | a | 816 | 1 | 50,58,73 | 2.38 | 16 (32%) | 58,95,113 | 3.05 | 27 (46%) |
| 26 | CHL | 9 | 605 | 29 | 56,64,74 | 2.16 | 18 (32%) | 61,102,114 | 3.09 | 27 (44%) |
| 20 | BCR | j | 3004 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 2.15 | 18 (32%) |
| 17 | CLA | F | 304 | 6 | 55,63,73 | 2.30 | 17 (30%) | 64,101,113 | 2.89 | 29 (45%) |
| 17 | CLA | F | 303 | 29 | 45,53,73 | 2.50 | 16 (35%) | 52,89,113 | 3.14 | 24 (46%) |
| 26 | CHL | 1 | 302 | 13 | 61,69,74 | 2.05 | 17 (27%) | 67,108,114 | 2.97 | 25 (37%) |
| 17 | CLA | A | 827 | 29 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.71 | 26 (34%) |
| 22 | HTG | a | 857 | - | 19,19,19 | 1.05 | 2 (10%) | 23,24,24 | 0.55 | 0 |
| 17 | CLA | 8 | 310 | 15 | 55,63,73 | 2.29 | 17 (30%) | 64,101,113 | 2.90 | 27 (42%) |
| 17 | CLA | a | 810 | 1 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.69 | 27 (35%) |
| 17 | CLA | A | 826 | 29 | 65,73,73 | 2.05 | 16 (24%) | 76,113,113 | 2.70 | 24 (31%) |
| 17 | CLA | b | 820 | 2 | 50,58,73 | 2.38 | 16 (32%) | 58,95,113 | 3.10 | 27 (46%) |
| 17 | CLA | 4 | 612 | 16 | 56,64,73 | 2.27 | 17 (30%) | 65,102,113 | 2.92 | 26 (40%) |
| 17 | CLA | 1 | 305 | 29 | 52,60,73 | 2.36 | 17 (32%) | 60,97,113 | 3.07 | 28 (46%) |
| 17 | CLA | B | 825 | 29 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.74 | 30 (39%) |
| 20 | BCR | K | 4004 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.81 | 14 (25%) |
| 17 | CLA | l | 202 | 12 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.70 | 26 (34%) |
| 20 | BCR | A | 849 | - | 41,41,41 | 1.07 | 1 (2%) | 56,56,56 | 1.65 | 13 (23%) |
| 25 | LMG | 9 | 619 | - | 50,50,55 | 0.93 | 2 (4%) | 58,58,63 | 0.98 | 3 (5%) |
| 17 | CLA | A | 807 | 1 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.71 | 28 (36%) |
| 28 | XAT | 3 | 317 | - | 39,47,47 | 0.88 | 0 | 54,74,74 | 2.67 | 20 (37%) |
| 26 | CHL | 4 | 607 | 29 | 51,59,74 | 2.23 | 17 (33%) | 55,96,114 | 3.21 | 23 (41%) |
| 17 | CLA | l | 204 | 29 | 50,58,73 | 2.38 | 16 (32%) | 58,95,113 | 3.07 | 28 (48%) |
| 17 | CLA | 9 | 603 | 16 | 46,54,73 | 2.45 | 17 (36%) | 53,90,113 | 3.23 | 25 (47%) |
| 23 | LMT | B | 849 | - | 36,36,36 | 0.48 | 0 | 47,47,47 | 0.94 | 3 (6%) |
| 20 | BCR | i | 101 | - | 41,41,41 | 1.02 | 1 (2%) | 56,56,56 | 1.60 | 12 (21%) |
| 17 | CLA | a | 856 | 29 | 65,73,73 | 2.04 | 17 (26%) | 76,113,113 | 2.85 | 30 (39%) |
| 17 | CLA | 8 | 313 | - | 27,32,73 | 3.00 | 13 (48%) | 30,54,113 | 4.60 | 24 (80%) |
| 17 | CLA | 8 | 307 | 15 | 50,58,73 | 2.38 | 16 (32%) | 58,95,113 | 2.97 | 27 (46%) |
| 26 | CHL | 6 | 303 | 13 | 61,69,74 | 2.05 | 18 (29%) | 67,108,114 | 2.93 | 26 (38%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 28 | XAT | 8 | 315 | - | 39,47,47 | 0.88 | 0 | 54,74,74 | 2.71 | 21 (38%) |
| 20 | BCR | a | 853 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.93 | 14 (25%) |
| 17 | CLA | b | 830 | 2 | 50,58,73 | 2.39 | 17 (34%) | 58,95,113 | 3.10 | 29 (50%) |
| 20 | BCR | L | 205 | - | 41,41,41 | 1.03 | 1 (2%) | 56,56,56 | 1.66 | 11 (19%) |
| 17 | CLA | A | 810 | 1 | 65,73,73 | 2.05 | 16 (24%) | 76,113,113 | 2.70 | 26 (34%) |
| 17 | CLA | J | 3002 | 10 | 42,50,73 | 2.56 | 16 (38%) | 48,85,113 | 3.23 | 25 (52%) |
| 17 | CLA | 3 | 301 | - | 46,54,73 | 2.50 | 17 (36%) | 53,90,113 | 3.16 | 25 (47%) |
| 17 | CLA | a | 820 | 1 | 65,73,73 | 2.12 | 17 (26%) | 76,113,113 | 2.70 | 26 (34%) |
| 17 | CLA | 6 | 315 | 13 | 55,63,73 | 2.29 | 17 (30%) | 64,101,113 | 2.95 | 28 (43%) |
| 17 | CLA | a | 804 | 1 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.76 | 28 (36%) |
| 17 | CLA | 6 | 309 | 29 | 46,54,73 | 2.49 | 17 (36%) | 53,90,113 | 3.13 | 24 (45%) |
| 17 | CLA | 3 | 315 | - | 27,32,73 | 3.00 | 13 (48%) | 30,54,113 | 4.59 | 24 (80%) |
| 17 | CLA | 3 | 309 | 15 | 50,58,73 | 2.38 | 16 (32%) | 58,95,113 | 3.10 | 30 (51%) |
| 17 | CLA | b | 836 | 2 | 60,68,73 | 2.18 | 16 (26%) | 70,107,113 | 2.88 | 25 (35%) |
| 17 | CLA | 2 | 611 | 14 | 52,60,73 | 2.35 | 16 (30%) | 60,97,113 | 3.04 | 26 (43%) |
| 27 | LUT | 2 | 615 | - | 42,43,43 | 0.75 | 0 | 51,60,60 | 1.62 | 11 (21%) |
| 20 | BCR | 3 | 318 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.88 | 14 (25%) |
| 17 | CLA | A | 819 | 1 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.70 | 27 (35%) |
| 17 | CLA | A | 840 | 1 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.75 | 27 (35%) |
| 17 | CLA | a | 831 | 1 | 65,73,73 | 2.04 | 17 (26%) | 76,113,113 | 2.75 | 28 (36%) |
| 27 | LUT | 7 | 615 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 1.56 | 13 (25%) |
| 17 | CLA | 8 | 303 | 29 | 45,53,73 | 2.52 | 17 (37%) | 52,89,113 | 3.16 | 24 (46%) |
| 20 | BCR | a | 854 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.74 | 12 (21%) |
| 17 | CLA | g | 102 | 7 | 50,58,73 | 2.41 | 17 (34%) | 58,95,113 | 3.10 | 27 (46%) |
| 17 | CLA | a | 830 | 1 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.70 | 26 (34%) |
| 25 | LMG | G | 102 | - | 44,44,55 | 1.01 | 2 (4%) | 52,52,63 | 0.98 | 3 (5%) |
| 17 | CLA | A | 806 | 1 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.69 | 29 (38%) |
| 20 | BCR | a | 851 | - | 41,41,41 | 1.03 | 1 (2%) | 56,56,56 | 1.72 | 14 (25%) |
| 17 | CLA | 7 | 604 | 29 | 60,68,73 | 2.20 | 17 (28%) | 70,107,113 | 2.79 | 28 (40%) |
| 17 | CLA | 1 | 309 | 13 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.67 | 26 (34%) |
| 18 | PQN | B | 842 | - | 34,34,34 | 1.60 | 2 (5%) | 42,45,45 | 1.12 | 3 (7%) |
| 17 | CLA | 1 | 314 | 13 | 55,63,73 | 2.29 | 17 (30%) | 64,101,113 | 2.97 | 28 (43%) |
| 26 | CHL | 3 | 307 | 29 | 47,55,74 | 2.34 | 18 (38%) | 50,91,114 | 3.27 | 23 (46%) |
| 17 | CLA | a | 821 | 1 | 45,53,73 | 2.48 | 16 (35%) | 52,89,113 | 3.25 | 25 (48%) |
| 17 | CLA | b | 822 | 2 | 55,63,73 | 2.28 | 17 (30%) | 64,101,113 | 2.93 | 26 (40%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 20 | BCR | 4 | 618 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.79 | 15 (26%) |
| 17 | CLA | a | 818 | 1 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.76 | 28 (36%) |
| 17 | CLA | 3 | 310 | 19 | 38,45,73 | 2.50 | 15 (39%) | 43,78,113 | 3.36 | 23 (53%) |
| 17 | CLA | B | 804 | 2 | 45,53,73 | 2.50 | 17 (37%) | 52,89,113 | 3.18 | 25 (48%) |
| 21 | SF4 | a | 855 | 1,2 | 0,12,12 | - | - | - | - | - |
| 17 | CLA | 9 | 601 | 16 | 46,54,73 | 2.48 | 17 (36%) | 53,90,113 | 3.14 | 26 (49%) |
| 26 | CHL | 4 | 606 | 29 | 51,59,74 | 2.32 | 18 (35%) | 55,96,114 | 3.22 | 22 (40%) |
| 20 | BCR | B | 844 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.97 | 13 (23%) |
| 17 | CLA | B | 829 | 2 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.75 | 29 (38%) |
| 20 | BCR | B | 847 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.73 | 15 (26%) |
| 17 | CLA | b | 812 | 2 | 55,63,73 | 2.28 | 16 (29%) | 64,101,113 | 2.88 | 26 (40%) |
| 17 | CLA | A | 805 | 1 | 55,63,73 | 2.26 | 16 (29%) | 64,101,113 | 3.01 | 29 (45%) |
| 20 | BCR | L | 206 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.84 | 12 (21%) |
| 17 | CLA | a | 837 | 1 | 45,53,73 | 2.53 | 17 (37%) | 52,89,113 | 3.17 | 25 (48%) |
| 17 | CLA | a | 833 | 1 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.71 | 26 (34%) |
| 17 | CLA | A | 834 | 1 | 65,73,73 | 2.08 | 17 (26%) | 76,113,113 | 2.74 | 27 (35%) |
| 17 | CLA | B | 840 | 2 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.76 | 26 (34%) |
| 17 | CLA | A | 829 | 1 | 65,73,73 | 2.04 | 16 (24%) | 76,113,113 | 2.70 | 27 (35%) |
| 28 | XAT | 1 | 317 | - | 39,47,47 | 0.86 | 0 | 54,74,74 | 2.69 | 21 (38%) |
| 17 | CLA | 6 | 313 | 13 | 52,60,73 | 2.35 | 16 (30%) | 60,97,113 | 3.01 | 26 (43%) |
| 17 | CLA | B | 819 | 29 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.66 | 29 (38%) |
| 17 | CLA | A | 815 | 1 | 45,53,73 | 2.51 | 17 (37%) | 52,89,113 | 3.17 | 24 (46%) |
| 20 | BCR | l | 205 | - | 41,41,41 | 1.02 | 1 (2%) | 56,56,56 | 1.59 | 10 (17%) |
| 17 | CLA | 3 | 313 | 15 | 45,53,73 | 2.55 | 17 (37%) | 52,89,113 | 3.15 | 24 (46%) |
| 17 | CLA | 1 | 315 | 13 | 46,54,73 | 2.49 | 16 (34%) | 53,90,113 | 3.13 | 23 (43%) |
| 20 | BCR | b | 847 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.82 | 15 (26%) |
| 17 | CLA | B | 809 | 2 | 65,73,73 | 2.05 | 17 (26%) | 76,113,113 | 2.69 | 24 (31%) |
| 20 | BCR | f | 7004 | - | 41,41,41 | 1.03 | 1 (2%) | 56,56,56 | 1.75 | 18 (32%) |
| 17 | CLA | B | 808 | 2 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.71 | 30 (39%) |
| 19 | LHG | a | 848 | 17 | 26,26,48 | 1.26 | 2 (7%) | 29,32,54 | 1.32 | 3 (10%) |
| 17 | CLA | A | 842 | 1 | 65,73,73 | 2.11 | 17 (26%) | 76,113,113 | 2.73 | 27 (35%) |
| 17 | CLA | 6 | 310 | 13 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.65 | 25 (32%) |
| 19 | LHG | 6 | 320 | 17 | 48,48,48 | 0.94 | 2 (4%) | 51,54,54 | 1.08 | 3 (5%) |
| 17 | CLA | 6 | 305 | 13 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.70 | 26 (34%) |
| 17 | CLA | b | 805 | 2 | 65,73,73 | 2.07 | 17 (26%) | 76,113,113 | 2.72 | 28 (36%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 17 | CLA | a | 832 | 1 | 50,58,73 | 2.39 | 16 (32%) | 58,95,113 | 3.05 | 27 (46%) |
| 17 | CLA | b | 839 | 29 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.71 | 23 (30%) |
| 20 | BCR | 1 | 318 | - | 41,41,41 | 1.07 | 1 (2%) | 56,56,56 | 1.88 | 16 (28%) |
| 17 | CLA | a | 806 | 1 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.75 | 28 (36%) |
| 17 | CLA | a | 826 | 29 | 65,73,73 | 2.07 | 16 (24%) | 76,113,113 | 2.76 | 25 (32%) |
| 26 | CHL | 2 | 601 | 14 | 61,69,74 | 2.06 | 17 (27%) | 67,108,114 | 3.00 | 25 (37%) |
| 17 | CLA | a | 823 | 1 | 49,57,73 | 2.41 | 16 (32%) | 55,93,113 | 3.09 | 25 (45%) |
| 17 | CLA | L | 204 | 29 | 50,58,73 | 2.40 | 17 (34%) | 58,95,113 | 3.09 | 27 (46%) |
| 25 | LMG | 4 | 619 | - | 44,44,55 | 1.01 | 2 (4%) | 52,52,63 | 1.00 | 3 (5%) |
| 17 | CLA | g | 101 | - | 41,49,73 | 2.55 | 17 (41%) | 47,84,113 | 3.44 | 24 (51%) |
| 17 | CLA | a | 841 | 1 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.66 | 28 (36%) |
| 17 | CLA | a | 801 | 1 | 65,73,73 | 2.05 | 16 (24%) | 76,113,113 | 2.74 | 29 (38%) |
| 17 | CLA | a | 811 | 1 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.72 | 27 (35%) |
| 27 | LUT | 6 | 321 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 1.69 | 9 (17%) |
| 17 | CLA | b | 804 | 2 | 45,53,73 | 2.48 | 16 (35%) | 52,89,113 | 3.26 | 24 (46%) |
| 27 | LUT | 4 | 616 | - | 42,43,43 | 0.76 | 0 | 51,60,60 | 1.64 | 13 (25%) |
| 20 | BCR | A | 852 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.78 | 14 (25%) |
| 17 | CLA | a | 846 | 19 | 52,60,73 | 2.38 | 17 (32%) | 60,97,113 | 3.03 | 24 (40%) |
| 19 | LHG | A | 846 | - | 48,48,48 | 0.93 | 2 (4%) | 51,54,54 | 1.07 | 3 (5%) |
| 17 | CLA | 7 | 602 | 14 | 65,73,73 | 2.08 | 17 (26%) | 76,113,113 | 2.74 | 28 (36%) |
| 17 | CLA | B | 838 | 2 | 47,55,73 | 2.42 | 16 (34%) | 54,91,113 | 3.17 | 26 (48%) |
| 20 | BCR | b | 801 | - | 41,41,41 | 1.03 | 1 (2%) | 56,56,56 | 1.43 | 6 (10%) |
| 17 | CLA | b | 806 | 2 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.73 | 26 (34%) |
| 22 | HTG | j | 3001 | - | 19,19,19 | 1.11 | 2 (10%) | 23,24,24 | 0.59 | 0 |
| 17 | CLA | A | 811 | 1 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.70 | 27 (35%) |
| 17 | CLA | A | 812 | 1 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.76 | 28 (36%) |
| 17 | CLA | A | 843 | 29 | 65,73,73 | 2.07 | 17 (26%) | 76,113,113 | 2.68 | 25 (32%) |
| 17 | CLA | 4 | 608 | 16 | 50,58,73 | 2.38 | 16 (32%) | 58,95,113 | 3.00 | 27 (46%) |
| 17 | CLA | G | 103 | 7 | 50,58,73 | 2.39 | 17 (34%) | 58,95,113 | 3.07 | 26 (44%) |
| 20 | BCR | k | 1404 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.78 | 12 (21%) |
| 17 | CLA | F | 301 | 29 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.68 | 25 (32%) |
| 17 | CLA | a | 836 | 1 | 50,58,73 | 2.35 | 16 (32%) | 58,95,113 | 3.01 | 27 (46%) |
| 17 | CLA | j | 3002 | 10 | 42,50,73 | 2.55 | 16 (38%) | 48,85,113 | 3.27 | 25 (52%) |
| 26 | CHL | 1 | 307 | 13 | 48,56,74 | 2.35 | 17 (35%) | 51,92,114 | 3.27 | 21 (41%) |
| 17 | CLA | b | 819 | 29 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.65 | 26 (34%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 17 | CLA | A | 831 | 1 | 65,73,73 | 2.07 | 16 (24%) | 76,113,113 | 2.69 | 26 (34%) |
| 17 | CLA | 1 | 310 | 13 | 60,68,73 | 2.19 | 17 (28%) | 70,107,113 | 2.80 | 29 (41%) |
| 17 | CLA | b | 803 | 2 | 65,73,73 | 2.07 | 16 (24%) | 76,113,113 | 2.52 | 26 (34%) |
| 17 | CLA | 4 | 611 | 16 | 52,60,73 | 2.33 | 16 (30%) | 60,97,113 | 3.01 | 26 (43%) |
| 17 | CLA | A | 835 | 1 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.74 | 28 (36%) |
| 17 | CLA | b | 807 | 2 | 65,73,73 | 2.11 | 17 (26%) | 76,113,113 | 2.69 | 26 (34%) |
| 26 | CHL | 7 | 601 | 14 | 61,69,74 | 2.07 | 17 (27%) | 67,108,114 | 3.05 | 26 (38%) |
| 17 | CLA | A | 838 | 1 | 51,59,73 | 2.34 | 16 (31%) | 59,96,113 | 3.12 | 27 (45%) |
| 17 | CLA | b | 828 | 2 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.70 | 26 (34%) |
| 20 | BCR | J | 3003 | - | 41,41,41 | 1.03 | 1 (2%) | 56,56,56 | 1.76 | 14 (25%) |
| 17 | CLA | b | 802 | 2 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.72 | 29 (38%) |
| 17 | CLA | B | 818 | 2 | 60,68,73 | 2.16 | 16 (26%) | 70,107,113 | 2.81 | 25 (35%) |
| 21 | SF4 | A | 853 | 1,2 | 0,12,12 | - | - | - | - | - |
| 27 | LUT | 9 | 616 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 1.62 | 12 (23%) |
| 20 | BCR | A | 848 | - | 41,41,41 | 1.02 | 1 (2%) | 56,56,56 | 1.82 | 13 (23%) |
| 17 | CLA | b | 811 | 2 | 54,62,73 | 2.16 | 16 (29%) | 67,100,113 | 2.98 | 28 (41%) |
| 26 | CHL | 2 | 605 | 29 | 43,51,74 | 2.38 | 17 (39%) | 45,86,114 | 3.46 | 22 (48%) |
| 17 | CLA | b | 837 | 2 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.75 | 29 (38%) |
| 17 | CLA | b | 814 | 2 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.75 | 26 (34%) |
| 17 | CLA | B | 834 | 2 | 65,73,73 | 2.13 | 17 (26%) | 76,113,113 | 2.66 | 27 (35%) |
| 17 | CLA | a | 815 | 1 | 45,53,73 | 2.52 | 17 (37%) | 52,89,113 | 3.15 | 25 (48%) |
| 17 | CLA | A | 823 | 1 | 49,57,73 | 2.43 | 17 (34%) | 55,93,113 | 3.12 | 26 (47%) |
| 17 | CLA | b | 813 | 2 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.69 | 25 (32%) |
| 20 | BCR | 8 | 316 | - | 41,41,41 | 1.07 | 1 (2%) | 56,56,56 | 1.92 | 17 (30%) |
| 26 | CHL | 2 | 606 | - | 48,56,74 | 2.34 | 17 (35%) | 51,92,114 | 3.32 | 22 (43%) |
| 26 | CHL | 7 | 605 | 29 | 43,51,74 | 2.38 | 16 (37%) | 45,86,114 | 3.51 | 23 (51%) |
| 17 | CLA | 4 | 601 | 16 | 46,54,73 | 2.47 | 16 (34%) | 53,90,113 | 3.16 | 24 (45%) |
| 17 | CLA | L | 202 | 12 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.68 | 26 (34%) |
| 17 | CLA | 6 | 314 | 13 | 60,68,73 | 2.18 | 16 (26%) | 70,107,113 | 2.77 | 26 (37%) |
| 17 | CLA | 1 | 312 | 13 | 52,60,73 | 2.33 | 16 (30%) | 60,97,113 | 3.05 | 25 (41%) |
| 17 | CLA | G | 104 | 7 | 46,54,73 | 2.49 | 17 (36%) | 53,90,113 | 3.15 | 24 (45%) |
| 20 | BCR | B | 845 | - | 41,41,41 | 1.01 | 1 (2%) | 56,56,56 | 2.01 | 18 (32%) |
| 26 | CHL | 7 | 607 | 29 | 51,59,74 | 2.25 | 17 (33%) | 55,96,114 | 3.21 | 21 (38%) |
| 17 | CLA | A | 802 | 1 | 65,73,73 | 2.08 | 15 (23%) | 76,113,113 | 2.67 | 26 (34%) |
| 19 | LHG | 3 | 319 | 17 | 19,19,48 | 1.10 | 1 (5%) | 21,24,54 | 0.99 | 1 (4%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 27 | LUT | 1 | 316 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 1.55 | 12 (23%) |
| 20 | BCR | F | 305 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.74 | 16 (28%) |
| 20 | BCR | L | 201 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.88 | 13 (23%) |
| 17 | CLA | A | 836 | 1 | 50,58,73 | 2.36 | 16 (32%) | 58,95,113 | 3.03 | 28 (48%) |
| 17 | CLA | 9 | 613 | 16 | 45,53,73 | 2.53 | 17 (37%) | 52,89,113 | 3.19 | 25 (48%) |
| 17 | CLA | 7 | 610 | 19 | 41,49,73 | 2.57 | 17 (41%) | 47,84,113 | 3.36 | 24 (51%) |
| 17 | CLA | 3 | 303 | 15 | 50,58,73 | 2.39 | 17 (34%) | 58,95,113 | 3.06 | 25 (43%) |
| 17 | CLA | B | 823 | 2 | 60,68,73 | 2.16 | 16 (26%) | 70,107,113 | 2.78 | 30 (42%) |
| 17 | CLA | 2 | 608 | 14 | 50,58,73 | 2.40 | 17 (34%) | 58,95,113 | 3.06 | 29 (50%) |
| 17 | CLA | 8 | 308 | 15 | 50,58,73 | 2.41 | 17 (34%) | 58,95,113 | 3.05 | 28 (48%) |
| 17 | CLA | 2 | 613 | 14 | 43,51,73 | 2.50 | 16 (37%) | 49,86,113 | 3.26 | 23 (46%) |
| 17 | CLA | G | 101 | 29 | 45,53,73 | 2.50 | 17 (37%) | 52,89,113 | 3.25 | 23 (44%) |
| 17 | CLA | b | 841 | 19 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.78 | 27 (35%) |
| 17 | CLA | 2 | 604 | 29 | 60,68,73 | 2.19 | 17 (28%) | 70,107,113 | 2.79 | 28 (40%) |
| 17 | CLA | b | 827 | 2 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.73 | 26 (34%) |
| 17 | CLA | a | 824 | 1 | 51,59,73 | 2.35 | 16 (31%) | 59,96,113 | 3.08 | 25 (42%) |
| 17 | CLA | B | 816 | 2 | 55,63,73 | 2.28 | 17 (30%) | 64,101,113 | 2.94 | 27 (42%) |
| 17 | CLA | B | 824 | 29 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.70 | 26 (34%) |
| 17 | CLA | 9 | 612 | 16 | 56,64,73 | 2.27 | 17 (30%) | 65,102,113 | 2.89 | 26 (40%) |
| 20 | BCR | 2 | 617 | - | 41,41,41 | 1.07 | 1 (2%) | 56,56,56 | 1.86 | 18 (32%) |
| 17 | CLA | B | 806 | 2 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.70 | 26 (34%) |
| 20 | BCR | B | 846 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.76 | 18 (32%) |
| 20 | BCR | K | 4001 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.80 | 11 (19%) |
| 17 | CLA | 7 | 608 | 14 | 50,58,73 | 2.39 | 17 (34%) | 58,95,113 | 3.05 | 29 (50%) |
| 17 | CLA | 6 | 304 | 13 | 65,73,73 | 2.11 | 17 (26%) | 76,113,113 | 2.72 | 28 (36%) |
| 17 | CLA | 9 | 602 | 16 | 60,68,73 | 2.17 | 17 (28%) | 70,107,113 | 2.85 | 30 (42%) |
| 17 | CLA | a | 814 | 1 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.68 | 25 (32%) |
| 17 | CLA | A | 824 | 1 | 51,59,73 | 2.37 | 17 (33%) | 59,96,113 | 3.03 | 27 (45%) |
| 17 | CLA | f | 7003 | 6 | 55,63,73 | 2.30 | 17 (30%) | 64,101,113 | 2.96 | 28 (43%) |
| 17 | CLA | B | 833 | 2 | 58,66,73 | 2.20 | 16 (27%) | 67,104,113 | 2.90 | 26 (38%) |
| 20 | BCR | l | 206 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.80 | 12 (21%) |
| 24 | DGD | b | 849 | - | 67,67,67 | 0.86 | 2 (2%) | 81,81,81 | 1.00 | 4 (4%) |
| 17 | CLA | a | 827 | 29 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.69 | 26 (34%) |
| 17 | CLA | 1 | 311 | 19 | 41,49,73 | 2.57 | 16 (39%) | 47,84,113 | 3.34 | 24 (51%) |
| 17 | CLA | a | 840 | 1 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.74 | 26 (34%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 17 | CLA | 8 | 302 | 15 | 50,58,73 | 2.39 | 16 (32%) | 58,95,113 | 3.12 | 27 (46%) |
| 17 | CLA | a | 803 | 29 | 65,73,73 | 2.07 | 17 (26%) | 76,113,113 | 2.71 | 27 (35%) |
| 17 | CLA | a | 805 | 1 | 55,63,73 | 2.27 | 17 (30%) | 64,101,113 | 2.91 | 27 (42%) |
| 17 | CLA | a | 825 | 1 | 55,63,73 | 2.29 | 16 (29%) | 64,101,113 | 2.88 | 27 (42%) |
| 17 | CLA | 9 | 614 | 16 | 47,55,73 | 2.43 | 17 (36%) | 54,91,113 | 3.20 | 24 (44%) |
| 28 | XAT | 2 | 616 | - | 39,47,47 | 0.87 | 0 | 54,74,74 | 2.62 | 19 (35%) |
| 17 | CLA | k | 1401 | - | 45,53,73 | 2.52 | 16 (35%) | 52,89,113 | 3.19 | 23 (44%) |
| 17 | CLA | 4 | 614 | 16 | 50,58,73 | 2.39 | 17 (34%) | 58,95,113 | 3.14 | 27 (46%) |
| 20 | BCR | G | 105 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.85 | 15 (26%) |
| 25 | LMG | 6 | 302 | - | 40,40,55 | 1.05 | 2 (5%) | 48,48,63 | 1.10 | 3 (6%) |
| 26 | CHL | 4 | 615 | 16 | 43,51,74 | 2.39 | 16 (37%) | 45,86,114 | 3.48 | 19 (42%) |
| 17 | CLA | 6 | 306 | 29 | 51,59,73 | 2.38 | 17 (33%) | 59,96,113 | 3.04 | 27 (45%) |
| 22 | HTG | F | 302 | - | 19,19,19 | 1.01 | 2 (10%) | 23,24,24 | 0.61 | 0 |
| 17 | CLA | 3 | 306 | 15 | 47,55,73 | 2.48 | 16 (34%) | 54,91,113 | 3.07 | 24 (44%) |
| 18 | PQN | b | 842 | - | 34,34,34 | 1.62 | 2 (5%) | 42,45,45 | 1.07 | 3 (7%) |
| 17 | CLA | B | 832 | 2 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.78 | 25 (32%) |
| 27 | LUT | 3 | 316 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 1.63 | 14 (27%) |
| 17 | CLA | B | 839 | 29 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.69 | 25 (32%) |
| 17 | CLA | B | 831 | 2 | 49,57,73 | 2.40 | 16 (32%) | 55,93,113 | 3.06 | 26 (47%) |
| 17 | CLA | 6 | 307 | - | 42,50,73 | 2.52 | 16 (38%) | 48,85,113 | 3.25 | 24 (50%) |
| 20 | BCR | A | 850 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.94 | 15 (26%) |
| 19 | LHG | 6 | 301 | 17 | 22,22,48 | 1.17 | 2 (9%) | 25,28,54 | 1.22 | 2 (8%) |
| 17 | CLA | a | 813 | 1 | 54,62,73 | 2.32 | 17 (31%) | 62,99,113 | 2.96 | 25 (40%) |
| 17 | CLA | b | 829 | 2 | 65,73,73 | 2.04 | 17 (26%) | 76,113,113 | 2.78 | 29 (38%) |
| 17 | CLA | A | 821 | 1 | 45,53,73 | 2.50 | 16 (35%) | 52,89,113 | 3.21 | 26 (50%) |
| 17 | CLA | B | 817 | 2 | 59,67,73 | 2.19 | 17 (28%) | 68,105,113 | 2.85 | 29 (42%) |
| 19 | LHG | 1 | 319 | 17 | 48,48,48 | 0.94 | 2 (4%) | 51,54,54 | 1.03 | 3 (5%) |
| 20 | BCR | 6 | 319 | - | 41,41,41 | 1.07 | 1 (2%) | 56,56,56 | 1.88 | 14 (25%) |
| 27 | LUT | 6 | 317 | - | 42,43,43 | 0.75 | 0 | 51,60,60 | 1.66 | 14 (27%) |
| 17 | CLA | B | 835 | 29 | 45,53,73 | 2.51 | 17 (37%) | 52,89,113 | 3.11 | 25 (48%) |
| 17 | CLA | A | 817 | 29 | 45,53,73 | 2.53 | 17 (37%) | 52,89,113 | 3.17 | 23 (44%) |
| 20 | BCR | I | 101 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.93 | 15 (26%) |
| 17 | CLA | b | 833 | 2 | 58,66,73 | 2.21 | 16 (27%) | 67,104,113 | 2.93 | 26 (38%) |
| 17 | CLA | A | 845 | 19 | 52,60,73 | 2.37 | 17 (32%) | 60,97,113 | 3.05 | 24 (40%) |
| 17 | CLA | b | 840 | 2 | 65,73,73 | 2.07 | 16 (24%) | 76,113,113 | 2.77 | 27 (35%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 17 | CLA | 8 | 305 | 15 | 47,55,73 | 2.48 | 17 (36%) | 54,91,113 | 3.10 | 24 (44%) |
| 17 | CLA | a | 844 | 29 | 65,73,73 | 2.04 | 16 (24%) | 76,113,113 | 2.71 | 25 (32%) |
| 17 | CLA | A | 814 | 1 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.70 | 26 (34%) |
| 20 | BCR | A | 856 | - | 41,41,41 | 1.03 | 1 (2%) | 56,56,56 | 2.03 | 16 (28%) |
| 17 | CLA | 9 | 604 | 29 | 50,58,73 | 2.39 | 17 (34%) | 58,95,113 | 3.13 | 28 (48%) |
| 25 | LMG | 4 | 620 | - | 44,44,55 | 1.02 | 3 (6%) | 52,52,63 | 1.18 | 4 (7%) |
| 17 | CLA | B | 815 | 2 | 60,68,73 | 2.17 | 16 (26%) | 70,107,113 | 2.76 | 27 (38%) |
| 17 | CLA | 4 | 609 | 16 | 60,68,73 | 2.18 | 17 (28%) | 70,107,113 | 2.84 | 29 (41%) |
| 17 | CLA | a | 812 | 1 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.76 | 28 (36%) |
| 17 | CLA | b | 808 | 2 | 65,73,73 | 2.07 | 16 (24%) | 76,113,113 | 2.78 | 30 (39%) |
| 17 | CLA | B | 821 | 2 | 46,54,73 | 2.48 | 17 (36%) | 53,90,113 | 3.18 | 23 (43%) |
| 19 | LHG | 1 | 301 | 17 | 22,22,48 | 1.18 | 2 (9%) | 25,28,54 | 1.29 | 2 (8%) |
| 17 | CLA | a | 829 | 1 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.71 | 26 (34%) |
| 20 | BCR | B | 843 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.88 | 14 (25%) |
| 17 | CLA | B | 837 | 2 | 65,73,73 | 2.08 | 17 (26%) | 76,113,113 | 2.75 | 29 (38%) |
| 17 | CLA | 4 | 613 | 16 | 45,53,73 | 2.53 | 17 (37%) | 52,89,113 | 3.20 | 24 (46%) |
| 26 | CHL | 2 | 607 | 29 | 51,59,74 | 2.24 | 17 (33%) | 55,96,114 | 3.19 | 24 (43%) |
| 17 | CLA | A | 828 | 1 | 65,73,73 | 2.05 | 16 (24%) | 76,113,113 | 2.74 | 26 (34%) |
| 17 | CLA | 1 | 313 | 13 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.70 | 27 (35%) |
| 17 | CLA | l | 203 | 12 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.76 | 29 (38%) |
| 20 | BCR | a | 850 | - | 41,41,41 | 1.01 | 1 (2%) | 56,56,56 | 1.86 | 15 (26%) |
| 17 | CLA | 4 | 603 | 16 | 46,54,73 | 2.42 | 16 (34%) | 53,90,113 | 3.24 | 25 (47%) |
| 17 | CLA | 3 | 302 | 15 | 60,68,73 | 2.18 | 17 (28%) | 70,107,113 | 2.83 | 28 (40%) |
| 26 | CHL | 9 | 606 | 29 | 51,59,74 | 2.26 | 17 (33%) | 55,96,114 | 3.24 | 24 (43%) |
| 17 | CLA | 3 | 314 | 15 | 46,54,73 | 2.49 | 16 (34%) | 53,90,113 | 3.17 | 23 (43%) |
| 17 | CLA | B | 820 | 2 | 50,58,73 | 2.40 | 17 (34%) | 58,95,113 | 3.04 | 27 (46%) |
| 22 | HTG | A | 855 | - | 19,19,19 | 1.03 | 2 (10%) | 23,24,24 | 0.69 | 0 |
| 17 | CLA | 1 | 306 | - | 52,60,73 | 2.34 | 17 (32%) | 60,97,113 | 3.00 | 27 (45%) |
| 17 | CLA | 9 | 608 | 16 | 50,58,73 | 2.36 | 16 (32%) | 58,95,113 | 3.01 | 27 (46%) |
| 20 | BCR | B | 848 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.64 | 12 (21%) |
| 26 | CHL | 9 | 615 | 16 | 43,51,74 | 2.39 | 17 (39%) | 45,86,114 | 3.55 | 21 (46%) |
| 17 | CLA | b | 831 | 2 | 49,57,73 | 2.38 | 17 (34%) | 55,93,113 | 3.10 | 26 (47%) |
| 17 | CLA | A | 833 | 1 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.70 | 26 (34%) |
| 17 | CLA | B | 826 | 2 | 65,73,73 | 2.07 | 16 (24%) | 76,113,113 | 2.75 | 26 (34%) |
| 19 | LHG | 7 | 618 | 17 | 36,36,48 | 1.08 | 2 (5%) | 39,42,54 | 1.16 | 4 (10%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 21 | SF4 | c | 102 | 3 | 0,12,12 | - | - | - | | |
| 17 | CLA | b | 809 | 2 | 65,73,73 | 2.03 | 17 (26%) | 76,113,113 | 2.70 | 27 (35%) |
| 17 | CLA | 8 | 311 | 15 | 45,53,73 | 2.54 | 17 (37%) | 52,89,113 | 3.17 | 25 (48%) |
| 17 | CLA | b | 838 | 2 | 47,55,73 | 2.47 | 16 (34%) | 54,91,113 | 3.17 | 24 (44%) |
| 26 | CHL | 2 | 614 | 14 | 43,51,74 | 2.39 | 16 (37%) | 45,86,114 | 3.51 | 20 (44%) |
| 17 | CLA | 2 | 602 | 14 | 65,73,73 | 2.11 | 17 (26%) | 76,113,113 | 2.71 | 28 (36%) |
| 20 | BCR | b | 844 | - | 41,41,41 | 1.03 | 1 (2%) | 56,56,56 | 2.08 | 14 (25%) |
| 26 | CHL | 7 | 614 | 14 | 43,51,74 | 2.40 | 16 (37%) | 45,86,114 | 3.47 | 20 (44%) |
| 17 | CLA | B | 827 | 2 | 65,73,73 | 2.07 | 17 (26%) | 76,113,113 | 2.76 | 27 (35%) |
| 17 | CLA | 3 | 311 | - | 52,60,73 | 2.37 | 17 (32%) | 60,97,113 | 3.02 | 26 (43%) |
| 21 | SF4 | C | 102 | 3 | 0,12,12 | - | - | - | | |
| 17 | CLA | b | 821 | 2 | 46,54,73 | 2.49 | 17 (36%) | 53,90,113 | 3.14 | 24 (45%) |
| 17 | CLA | 6 | 312 | 19 | 41,49,73 | 2.56 | 16 (39%) | 47,84,113 | 3.38 | 25 (53%) |
| 17 | CLA | a | 838 | 1 | 51,59,73 | 2.34 | 15 (29%) | 59,96,113 | 3.12 | 29 (49%) |
| 21 | SF4 | c | 101 | 3 | 0,12,12 | - | - | - | | |
| 17 | CLA | A | 832 | 1 | 50,58,73 | 2.38 | 17 (34%) | 58,95,113 | 3.08 | 27 (46%) |
| 17 | CLA | a | 843 | 1 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.75 | 29 (38%) |
| 17 | CLA | b | 818 | 2 | 60,68,73 | 2.16 | 17 (28%) | 70,107,113 | 2.80 | 26 (37%) |
| 17 | CLA | A | 818 | 1 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.76 | 28 (36%) |
| 17 | CLA | 2 | 610 | 19 | 41,49,73 | 2.57 | 17 (41%) | 47,84,113 | 3.37 | 25 (53%) |
| 17 | CLA | B | 810 | 2 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.72 | 29 (38%) |
| 17 | CLA | b | 834 | 2 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.73 | 27 (35%) |
| 28 | XAT | 6 | 318 | - | 39,47,47 | 0.89 | 0 | 54,74,74 | 2.62 | 19 (35%) |
| 17 | CLA | B | 836 | 2 | 60,68,73 | 2.19 | 16 (26%) | 70,107,113 | 2.87 | 25 (35%) |
| 28 | XAT | 4 | 617 | - | 39,47,47 | 0.88 | 0 | 54,74,74 | 2.59 | 18 (33%) |
| 17 | CLA | 2 | 609 | 14 | 60,68,73 | 2.20 | 17 (28%) | 70,107,113 | 2.79 | 30 (42%) |
| 17 | CLA | 6 | 316 | 13 | 46,54,73 | 2.50 | 17 (36%) | 53,90,113 | 3.14 | 24 (45%) |
| 18 | PQN | A | 844 | - | 34,34,34 | 1.61 | 2 (5%) | 42,45,45 | 1.21 | 4 (9%) |
| 17 | CLA | 2 | 603 | 14 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.68 | 25 (32%) |
| 20 | BCR | 7 | 617 | - | 41,41,41 | 1.09 | 1 (2%) | 56,56,56 | 2.09 | 13 (23%) |
| 17 | CLA | K | 4003 | 11 | 46,54,73 | 2.50 | 17 (36%) | 53,90,113 | 3.14 | 24 (45%) |
| 17 | CLA | B | 830 | 2 | 50,58,73 | 2.37 | 17 (34%) | 58,95,113 | 3.08 | 26 (44%) |
| 17 | CLA | 7 | 611 | 14 | 52,60,73 | 2.34 | 16 (30%) | 60,97,113 | 3.02 | 26 (43%) |
| 20 | BCR | b | 848 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.55 | 10 (17%) |
| 17 | CLA | b | 826 | 2 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.71 | 26 (34%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 28 | XAT | 7 | 616 | - | 39,47,47 | 0.85 | 0 | 54,74,74 | 2.60 | 19 (35%) |
| 19 | LHG | A | 847 | 17 | 26,26,48 | 1.28 | 2 (7%) | 29,32,54 | 1.26 | 3 (10%) |
| 20 | BCR | b | 845 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.94 | 13 (23%) |
| 22 | HTG | J | 3001 | - | 19,19,19 | 1.05 | 2 (10%) | 23,24,24 | 0.53 | 0 |
| 17 | CLA | 7 | 613 | 14 | 43,51,73 | 2.50 | 16 (37%) | 49,86,113 | 3.27 | 24 (48%) |
| 17 | CLA | a | 834 | 1 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.74 | 28 (36%) |
| 17 | CLA | B | 812 | 2 | 55,63,73 | 2.28 | 17 (30%) | 64,101,113 | 2.87 | 25 (39%) |
| 17 | CLA | A | 822 | 29 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.60 | 27 (35%) |
| 17 | CLA | b | 823 | 2 | 60,68,73 | 2.18 | 16 (26%) | 70,107,113 | 2.74 | 26 (37%) |
| 17 | CLA | 8 | 309 | - | 52,60,73 | 2.38 | 17 (32%) | 60,97,113 | 3.01 | 25 (41%) |
| 17 | CLA | 8 | 304 | 29 | 42,50,73 | 2.52 | 16 (38%) | 48,85,113 | 3.25 | 24 (50%) |
| 17 | CLA | a | 817 | 29 | 45,53,73 | 2.51 | 17 (37%) | 52,89,113 | 3.16 | 23 (44%) |
| 26 | CHL | 7 | 606 | - | 48,56,74 | 2.34 | 17 (35%) | 51,92,114 | 3.34 | 23 (45%) |
| 20 | BCR | j | 3003 | - | 41,41,41 | 1.02 | 1 (2%) | 56,56,56 | 1.71 | 13 (23%) |
| 17 | CLA | 2 | 612 | 14 | 65,73,73 | 2.12 | 17 (26%) | 76,113,113 | 2.69 | 27 (35%) |
| 17 | CLA | 7 | 612 | 14 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.69 | 26 (34%) |
| 28 | XAT | 9 | 617 | - | 39,47,47 | 0.86 | 1 (2%) | 54,74,74 | 2.61 | 17 (31%) |
| 21 | SF4 | C | 101 | 3 | 0,12,12 | - | - | - | - | - |
| 17 | CLA | K | 4002 | - | 45,53,73 | 2.53 | 17 (37%) | 52,89,113 | 3.20 | 23 (44%) |
| 17 | CLA | A | 816 | 1 | 50,58,73 | 2.38 | 17 (34%) | 58,95,113 | 3.11 | 26 (44%) |
| 17 | CLA | 1 | 304 | 13 | 65,73,73 | 2.11 | 17 (26%) | 76,113,113 | 2.70 | 26 (34%) |
| 17 | CLA | a | 819 | 1 | 65,73,73 | 2.12 | 16 (24%) | 76,113,113 | 2.63 | 26 (34%) |
| 17 | CLA | b | 810 | 2 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.68 | 26 (34%) |
| 17 | CLA | b | 824 | 29 | 65,73,73 | 2.09 | 16 (24%) | 76,113,113 | 2.67 | 27 (35%) |
| 27 | LUT | 1 | 320 | - | 42,43,43 | 0.74 | 0 | 51,60,60 | 1.65 | 11 (21%) |
| 17 | CLA | 3 | 308 | 15 | 50,58,73 | 2.39 | 16 (32%) | 58,95,113 | 3.03 | 27 (46%) |
| 20 | BCR | b | 846 | - | 41,41,41 | 1.08 | 1 (2%) | 56,56,56 | 1.66 | 13 (23%) |
| 17 | CLA | a | 822 | 29 | 65,73,73 | 2.08 | 16 (24%) | 76,113,113 | 2.66 | 28 (36%) |
| 17 | CLA | A | 804 | 1 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.77 | 27 (35%) |
| 17 | CLA | B | 822 | 2 | 55,63,73 | 2.30 | 17 (30%) | 64,101,113 | 2.89 | 27 (42%) |
| 17 | CLA | A | 825 | 1 | 55,63,73 | 2.30 | 17 (30%) | 64,101,113 | 2.88 | 27 (42%) |
| 17 | CLA | a | 835 | 1 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.77 | 29 (38%) |
| 17 | CLA | k | 1402 | 11 | 46,54,73 | 2.48 | 17 (36%) | 53,90,113 | 3.10 | 23 (43%) |
| 17 | CLA | 4 | 604 | 29 | 50,58,73 | 2.39 | 17 (34%) | 58,95,113 | 3.06 | 28 (48%) |
| 17 | CLA | 3 | 305 | 29 | 42,50,73 | 2.52 | 16 (38%) | 48,85,113 | 3.26 | 24 (50%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|------|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 18 | PQN | a | 845 | - | 34,34,34 | 1.63 | 2 (5%) | 42,45,45 | 1.09 | 4 (9%) |
| 17 | CLA | A | 854 | 29 | 65,73,73 | 2.05 | 16 (24%) | 76,113,113 | 2.81 | 30 (39%) |
| 17 | CLA | A | 820 | 1 | 65,73,73 | 2.09 | 17 (26%) | 76,113,113 | 2.73 | 26 (34%) |
| 22 | HTG | f | 7001 | - | 19,19,19 | 1.05 | 2 (10%) | 23,24,24 | 0.58 | 0 |
| 17 | CLA | A | 839 | 1 | 65,73,73 | 2.05 | 16 (24%) | 76,113,113 | 2.74 | 25 (32%) |
| 17 | CLA | 6 | 311 | 13 | 60,68,73 | 2.19 | 17 (28%) | 70,107,113 | 2.82 | 29 (41%) |
| 17 | CLA | 4 | 602 | 16 | 60,68,73 | 2.18 | 17 (28%) | 70,107,113 | 2.82 | 30 (42%) |
| 20 | BCR | g | 104 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.89 | 16 (28%) |
| 17 | CLA | A | 813 | 1 | 54,62,73 | 2.30 | 17 (31%) | 62,99,113 | 2.95 | 28 (45%) |
| 17 | CLA | B | 814 | 2 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.73 | 29 (38%) |
| 17 | CLA | 1 | 303 | 13 | 65,73,73 | 2.10 | 17 (26%) | 76,113,113 | 2.71 | 27 (35%) |
| 17 | CLA | b | 832 | 2 | 65,73,73 | 2.06 | 17 (26%) | 76,113,113 | 2.78 | 27 (35%) |
| 26 | CHL | 9 | 607 | 29 | 51,59,74 | 2.25 | 17 (33%) | 55,96,114 | 3.19 | 25 (45%) |
| 20 | BCR | B | 801 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 1.49 | 8 (14%) |
| 17 | CLA | 8 | 301 | 15 | 60,68,73 | 2.19 | 17 (28%) | 70,107,113 | 2.83 | 28 (40%) |
| 17 | CLA | g | 103 | 7 | 46,54,73 | 2.49 | 17 (36%) | 53,90,113 | 3.18 | 25 (47%) |
| 17 | CLA | B | 805 | 2 | 65,73,73 | 2.07 | 17 (26%) | 76,113,113 | 2.74 | 26 (34%) |
| 20 | BCR | l | 201 | - | 41,41,41 | 1.04 | 1 (2%) | 56,56,56 | 1.85 | 15 (26%) |
| 24 | DGD | B | 850 | - | 67,67,67 | 0.86 | 2 (2%) | 81,81,81 | 0.93 | 4 (4%) |
| 17 | CLA | B | 807 | 2 | 65,73,73 | 2.11 | 17 (26%) | 76,113,113 | 2.74 | 29 (38%) |
| 17 | CLA | A | 830 | 1 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.69 | 27 (35%) |
| 17 | CLA | 7 | 609 | 14 | 60,68,73 | 2.18 | 16 (26%) | 70,107,113 | 2.79 | 29 (41%) |
| 17 | CLA | A | 837 | 1 | 45,53,73 | 2.54 | 17 (37%) | 52,89,113 | 3.14 | 24 (46%) |
| 17 | CLA | 9 | 609 | 16 | 60,68,73 | 2.19 | 17 (28%) | 70,107,113 | 2.79 | 30 (42%) |
| 17 | CLA | 9 | 611 | 16 | 52,60,73 | 2.36 | 17 (32%) | 60,97,113 | 3.04 | 26 (43%) |
| 17 | CLA | A | 803 | 29 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.75 | 28 (36%) |
| 17 | CLA | b | 816 | 2 | 55,63,73 | 2.27 | 17 (30%) | 64,101,113 | 2.92 | 28 (43%) |
| 20 | BCR | A | 851 | - | 41,41,41 | 1.06 | 1 (2%) | 56,56,56 | 2.02 | 14 (25%) |
| 26 | CHL | 6 | 308 | 13 | 47,55,74 | 2.38 | 17 (36%) | 50,91,114 | 3.28 | 21 (42%) |
| 20 | BCR | 9 | 618 | - | 41,41,41 | 1.05 | 1 (2%) | 56,56,56 | 1.81 | 16 (28%) |
| 17 | CLA | a | 839 | 1 | 65,73,73 | 2.06 | 16 (24%) | 76,113,113 | 2.75 | 25 (32%) |
| 17 | CLA | A | 809 | 1 | 65,73,73 | 2.10 | 16 (24%) | 76,113,113 | 2.73 | 27 (35%) |
| 17 | CLA | B | 811 | 2 | 54,62,73 | 2.18 | 17 (31%) | 67,100,113 | 2.94 | 28 (41%) |
| 17 | CLA | 3 | 312 | 15 | 55,63,73 | 2.29 | 16 (29%) | 64,101,113 | 2.91 | 27 (42%) |
| 17 | CLA | A | 808 | 1 | 65,73,73 | 2.12 | 16 (24%) | 76,113,113 | 2.72 | 26 (34%) |

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|----------|-------------|------|----------|
| | | | | | Counts | RMSZ | # Z > 2 | Counts | RMSZ | # Z > 2 |
| 17 | CLA | b | 815 | 2 | 55,63,73 | 2.25 | 16 (29%) | 64,101,113 | 2.90 | 28 (43%) |
| 26 | CHL | 4 | 605 | 29 | 56,64,74 | 2.16 | 18 (32%) | 61,102,114 | 3.09 | 27 (44%) |
| 17 | CLA | 4 | 610 | 29 | 55,63,73 | 2.28 | 16 (29%) | 64,101,113 | 2.87 | 28 (43%) |

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 |
|-----|------|-------|------|------|-----------|---------------|---------|
| 17 | CLA | L | 203 | 12 | 1/1/15/20 | 5/37/115/115 | - |
| 20 | BCR | a | 852 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | B | 841 | 19 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | 7 | 603 | 14 | 1/1/12/20 | 3/21/99/115 | - |
| 17 | CLA | 1 | 308 | 29 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | b | 817 | 2 | 1/1/13/20 | 11/30/108/115 | - |
| 20 | BCR | a | 849 | - | - | 2/29/63/63 | 0/2/2/2 |
| 20 | BCR | b | 843 | - | - | 0/29/63/63 | 0/2/2/2 |
| 17 | CLA | B | 813 | 2 | 1/1/15/20 | 16/37/115/115 | - |
| 19 | LHG | 2 | 618 | 17 | - | 9/41/41/53 | - |
| 17 | CLA | a | 807 | 1 | 1/1/15/20 | 14/37/115/115 | - |
| 17 | CLA | B | 803 | 2 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | a | 828 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 27 | LUT | 8 | 314 | - | - | 2/29/67/67 | 0/2/2/2 |
| 17 | CLA | k | 1403 | - | 1/1/11/20 | 4/15/93/115 | - |
| 19 | LHG | a | 847 | - | - | 10/53/53/53 | - |
| 17 | CLA | B | 828 | 2 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | A | 841 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | a | 802 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 17 | CLA | b | 835 | 29 | 1/1/11/20 | 2/13/91/115 | - |
| 17 | CLA | A | 801 | 1 | 2/2/15/20 | 7/37/115/115 | - |
| 17 | CLA | B | 802 | 2 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | a | 809 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | a | 808 | 1 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | f | 7002 | 29 | 1/1/11/20 | 1/13/91/115 | - |
| 17 | CLA | 3 | 304 | 29 | 1/1/11/20 | 1/13/91/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 26 | CHL | 8 | 306 | 29 | 3/3/16/26 | 3/17/115/137 | - |
| 17 | CLA | a | 842 | 29 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | 9 | 610 | 29 | 1/1/10/20 | 0/8/86/115 | - |
| 17 | CLA | 8 | 312 | 15 | 1/1/11/20 | 1/15/93/115 | - |
| 17 | CLA | b | 825 | 29 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | a | 816 | 1 | 1/1/12/20 | 9/19/97/115 | - |
| 26 | CHL | 9 | 605 | 29 | 2/2/18/26 | 8/27/125/137 | - |
| 20 | BCR | j | 3004 | - | - | 9/29/63/63 | 0/2/2/2 |
| 17 | CLA | F | 304 | 6 | 1/1/13/20 | 8/25/103/115 | - |
| 17 | CLA | F | 303 | 29 | 1/1/11/20 | 2/13/91/115 | - |
| 26 | CHL | 1 | 302 | 13 | 3/3/19/26 | 7/33/131/137 | - |
| 17 | CLA | A | 827 | 29 | 1/1/15/20 | 7/37/115/115 | - |
| 22 | HTG | a | 857 | - | - | 0/10/30/30 | 0/1/1/1 |
| 17 | CLA | 8 | 310 | 15 | 1/1/13/20 | 8/25/103/115 | - |
| 17 | CLA | a | 810 | 1 | 1/1/15/20 | 2/37/115/115 | - |
| 17 | CLA | A | 826 | 29 | 1/1/15/20 | 14/37/115/115 | - |
| 17 | CLA | b | 820 | 2 | 1/1/12/20 | 2/19/97/115 | - |
| 17 | CLA | 4 | 612 | 16 | 1/1/13/20 | 9/27/105/115 | - |
| 17 | CLA | 1 | 305 | 29 | 1/1/12/20 | 6/22/100/115 | - |
| 17 | CLA | B | 825 | 29 | 1/1/15/20 | 7/37/115/115 | - |
| 20 | BCR | K | 4004 | - | - | 4/29/63/63 | 0/2/2/2 |
| 17 | CLA | l | 202 | 12 | 1/1/15/20 | 10/37/115/115 | - |
| 20 | BCR | A | 849 | - | - | 2/29/63/63 | 0/2/2/2 |
| 25 | LMG | 9 | 619 | - | - | 10/45/65/70 | 0/1/1/1 |
| 17 | CLA | A | 807 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 28 | XAT | 3 | 317 | - | - | 2/31/93/93 | 0/4/4/4 |
| 26 | CHL | 4 | 607 | 29 | 3/3/17/26 | 3/21/119/137 | - |
| 17 | CLA | l | 204 | 29 | 1/1/12/20 | 4/19/97/115 | - |
| 17 | CLA | 9 | 603 | 16 | 1/1/11/20 | 4/15/93/115 | - |
| 23 | LMT | B | 849 | - | - | 3/21/61/61 | 0/2/2/2 |
| 20 | BCR | i | 101 | - | - | 1/29/63/63 | 0/2/2/2 |
| 17 | CLA | a | 856 | 29 | 1/1/15/20 | 11/37/115/115 | - |
| 17 | CLA | 8 | 313 | - | 1/1/4/20 | - | - |
| 17 | CLA | 8 | 307 | 15 | 1/1/12/20 | 5/19/97/115 | - |
| 26 | CHL | 6 | 303 | 13 | 3/3/19/26 | 15/33/131/137 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 28 | XAT | 8 | 315 | - | - | 0/31/93/93 | 0/4/4/4 |
| 20 | BCR | a | 853 | - | - | 7/29/63/63 | 0/2/2/2 |
| 17 | CLA | b | 830 | 2 | 1/1/12/20 | 3/19/97/115 | - |
| 20 | BCR | L | 205 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | A | 810 | 1 | 1/1/15/20 | 4/37/115/115 | - |
| 17 | CLA | J | 3002 | 10 | 1/1/10/20 | 4/10/88/115 | - |
| 17 | CLA | 3 | 301 | - | 1/1/11/20 | 2/15/93/115 | - |
| 17 | CLA | a | 820 | 1 | 1/1/15/20 | 11/37/115/115 | - |
| 17 | CLA | 6 | 315 | 13 | 1/1/13/20 | 6/25/103/115 | - |
| 17 | CLA | a | 804 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 17 | CLA | 6 | 309 | 29 | 1/1/11/20 | 3/15/93/115 | - |
| 17 | CLA | 3 | 315 | - | 1/1/4/20 | - | - |
| 17 | CLA | 3 | 309 | 15 | 1/1/12/20 | 1/19/97/115 | - |
| 17 | CLA | b | 836 | 2 | 1/1/14/20 | 5/31/109/115 | - |
| 17 | CLA | 2 | 611 | 14 | 1/1/12/20 | 5/22/100/115 | - |
| 27 | LUT | 2 | 615 | - | - | 2/29/67/67 | 0/2/2/2 |
| 20 | BCR | 3 | 318 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | A | 819 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | A | 840 | 1 | 1/1/15/20 | 7/37/115/115 | - |
| 17 | CLA | a | 831 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 27 | LUT | 7 | 615 | - | - | 1/29/67/67 | 0/2/2/2 |
| 17 | CLA | 8 | 303 | 29 | 1/1/11/20 | 1/13/91/115 | - |
| 20 | BCR | a | 854 | - | - | 4/29/63/63 | 0/2/2/2 |
| 17 | CLA | g | 102 | 7 | 1/1/12/20 | 1/19/97/115 | - |
| 17 | CLA | a | 830 | 1 | 1/1/15/20 | 11/37/115/115 | - |
| 25 | LMG | G | 102 | - | - | 10/39/59/70 | 0/1/1/1 |
| 17 | CLA | A | 806 | 1 | 1/1/15/20 | 19/37/115/115 | - |
| 20 | BCR | a | 851 | - | - | 1/29/63/63 | 0/2/2/2 |
| 17 | CLA | 7 | 604 | 29 | 1/1/14/20 | 11/31/109/115 | - |
| 17 | CLA | 1 | 309 | 13 | 1/1/15/20 | 10/37/115/115 | - |
| 18 | PQN | B | 842 | - | - | 3/23/43/43 | 0/2/2/2 |
| 17 | CLA | 1 | 314 | 13 | - | 4/25/103/115 | - |
| 26 | CHL | 3 | 307 | 29 | 3/3/16/26 | 2/17/115/137 | - |
| 17 | CLA | a | 821 | 1 | 1/1/11/20 | 4/13/91/115 | - |
| 17 | CLA | b | 822 | 2 | 1/1/13/20 | 10/25/103/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 20 | BCR | 4 | 618 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | a | 818 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 17 | CLA | 3 | 310 | 19 | 1/1/8/20 | 0/2/76/115 | - |
| 17 | CLA | B | 804 | 2 | 1/1/11/20 | 8/13/91/115 | - |
| 21 | SF4 | a | 855 | 1,2 | - | - | 0/6/5/5 |
| 17 | CLA | 9 | 601 | 16 | 1/1/11/20 | 5/15/93/115 | - |
| 26 | CHL | 4 | 606 | 29 | 3/3/17/26 | 6/21/119/137 | - |
| 20 | BCR | B | 844 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | B | 829 | 2 | 1/1/15/20 | 9/37/115/115 | - |
| 20 | BCR | B | 847 | - | - | 5/29/63/63 | 0/2/2/2 |
| 17 | CLA | b | 812 | 2 | 1/1/13/20 | 11/25/103/115 | - |
| 17 | CLA | A | 805 | 1 | 1/1/13/20 | 8/25/103/115 | - |
| 20 | BCR | L | 206 | - | - | 3/29/63/63 | 0/2/2/2 |
| 17 | CLA | a | 837 | 1 | 1/1/11/20 | 5/13/91/115 | - |
| 17 | CLA | a | 833 | 1 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | A | 834 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | B | 840 | 2 | - | 9/37/115/115 | - |
| 17 | CLA | A | 829 | 1 | 1/1/15/20 | 11/37/115/115 | - |
| 28 | XAT | 1 | 317 | - | - | 0/31/93/93 | 0/4/4/4 |
| 17 | CLA | 6 | 313 | 13 | 1/1/12/20 | 10/22/100/115 | - |
| 17 | CLA | B | 819 | 29 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | A | 815 | 1 | 1/1/11/20 | 1/13/91/115 | - |
| 20 | BCR | l | 205 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | 3 | 313 | 15 | 1/1/11/20 | 4/13/91/115 | - |
| 17 | CLA | 1 | 315 | 13 | 1/1/11/20 | 1/15/93/115 | - |
| 20 | BCR | b | 847 | - | - | 3/29/63/63 | 0/2/2/2 |
| 17 | CLA | B | 809 | 2 | 1/1/15/20 | 7/37/115/115 | - |
| 20 | BCR | f | 7004 | - | - | 4/29/63/63 | 0/2/2/2 |
| 17 | CLA | B | 808 | 2 | 1/1/15/20 | 7/37/115/115 | - |
| 19 | LHG | a | 848 | 17 | - | 12/31/31/53 | - |
| 17 | CLA | A | 842 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | 6 | 310 | 13 | 1/1/15/20 | 7/37/115/115 | - |
| 19 | LHG | 6 | 320 | 17 | - | 14/53/53/53 | - |
| 17 | CLA | 6 | 305 | 13 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | b | 805 | 2 | 1/1/15/20 | 19/37/115/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 17 | CLA | a | 832 | 1 | 1/1/12/20 | 4/19/97/115 | - |
| 17 | CLA | b | 839 | 29 | 1/1/15/20 | 9/37/115/115 | - |
| 20 | BCR | 1 | 318 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | a | 806 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 17 | CLA | a | 826 | 29 | 1/1/15/20 | 6/37/115/115 | - |
| 26 | CHL | 2 | 601 | 14 | 2/2/19/26 | 11/33/131/137 | - |
| 17 | CLA | a | 823 | 1 | 1/1/11/20 | 5/18/96/115 | - |
| 17 | CLA | L | 204 | 29 | 1/1/12/20 | 3/19/97/115 | - |
| 25 | LMG | 4 | 619 | - | - | 9/39/59/70 | 0/1/1/1 |
| 17 | CLA | g | 101 | - | - | 3/8/86/115 | - |
| 17 | CLA | a | 841 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 17 | CLA | a | 801 | 1 | 2/2/15/20 | 8/37/115/115 | - |
| 17 | CLA | a | 811 | 1 | 1/1/15/20 | 9/37/115/115 | - |
| 27 | LUT | 6 | 321 | - | - | 2/29/67/67 | 0/2/2/2 |
| 17 | CLA | b | 804 | 2 | 1/1/11/20 | 4/13/91/115 | - |
| 27 | LUT | 4 | 616 | - | - | 2/29/67/67 | 0/2/2/2 |
| 20 | BCR | A | 852 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | a | 846 | 19 | 1/1/12/20 | 13/22/100/115 | - |
| 19 | LHG | A | 846 | - | - | 10/53/53/53 | - |
| 17 | CLA | 7 | 602 | 14 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | B | 838 | 2 | 1/1/11/20 | 0/16/94/115 | - |
| 20 | BCR | b | 801 | - | - | 0/29/63/63 | 0/2/2/2 |
| 17 | CLA | b | 806 | 2 | 1/1/15/20 | 9/37/115/115 | - |
| 22 | HTG | j | 3001 | - | - | 1/10/30/30 | 0/1/1/1 |
| 17 | CLA | A | 811 | 1 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | A | 812 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | A | 843 | 29 | 1/1/15/20 | 16/37/115/115 | - |
| 17 | CLA | 4 | 608 | 16 | 1/1/12/20 | 3/19/97/115 | - |
| 17 | CLA | G | 103 | 7 | 1/1/12/20 | 1/19/97/115 | - |
| 20 | BCR | k | 1404 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | F | 301 | 29 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | a | 836 | 1 | 1/1/12/20 | 2/19/97/115 | - |
| 17 | CLA | j | 3002 | 10 | 1/1/10/20 | 1/10/88/115 | - |
| 26 | CHL | 1 | 307 | 13 | 3/3/16/26 | 3/18/116/137 | - |
| 17 | CLA | b | 819 | 29 | 1/1/15/20 | 5/37/115/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 17 | CLA | A | 831 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | 1 | 310 | 13 | 1/1/14/20 | 3/31/109/115 | - |
| 17 | CLA | b | 803 | 2 | 1/1/15/20 | 6/37/115/115 | - |
| 17 | CLA | 4 | 611 | 16 | 1/1/12/20 | 7/22/100/115 | - |
| 17 | CLA | A | 835 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | b | 807 | 2 | 1/1/15/20 | 6/37/115/115 | - |
| 26 | CHL | 7 | 601 | 14 | 3/3/19/26 | 8/33/131/137 | - |
| 17 | CLA | A | 838 | 1 | 1/1/12/20 | 3/21/99/115 | - |
| 17 | CLA | b | 828 | 2 | 1/1/15/20 | 9/37/115/115 | - |
| 20 | BCR | J | 3003 | - | - | 2/29/63/63 | 0/2/2/2 |
| 17 | CLA | b | 802 | 2 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | B | 818 | 2 | 1/1/14/20 | 10/31/109/115 | - |
| 21 | SF4 | A | 853 | 1,2 | - | - | 0/6/5/5 |
| 27 | LUT | 9 | 616 | - | - | 2/29/67/67 | 0/2/2/2 |
| 20 | BCR | A | 848 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | b | 811 | 2 | 1/1/13/20 | 10/25/101/115 | - |
| 26 | CHL | 2 | 605 | 29 | 2/2/15/26 | 0/12/110/137 | - |
| 17 | CLA | b | 837 | 2 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | b | 814 | 2 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | B | 834 | 2 | 1/1/15/20 | 16/37/115/115 | - |
| 17 | CLA | a | 815 | 1 | 1/1/11/20 | 3/13/91/115 | - |
| 17 | CLA | A | 823 | 1 | 1/1/11/20 | 5/18/96/115 | - |
| 17 | CLA | b | 813 | 2 | 1/1/15/20 | 13/37/115/115 | - |
| 20 | BCR | 8 | 316 | - | - | 4/29/63/63 | 0/2/2/2 |
| 26 | CHL | 2 | 606 | - | 3/3/16/26 | 2/18/116/137 | - |
| 26 | CHL | 7 | 605 | 29 | 3/3/15/26 | 4/12/110/137 | - |
| 17 | CLA | 4 | 601 | 16 | 1/1/11/20 | 3/15/93/115 | - |
| 17 | CLA | L | 202 | 12 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | 6 | 314 | 13 | 1/1/14/20 | 6/31/109/115 | - |
| 17 | CLA | 1 | 312 | 13 | 1/1/12/20 | 8/22/100/115 | - |
| 17 | CLA | G | 104 | 7 | 1/1/11/20 | 2/15/93/115 | - |
| 26 | CHL | 7 | 607 | 29 | 3/3/17/26 | 4/21/119/137 | - |
| 20 | BCR | B | 845 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | A | 802 | 1 | 1/1/15/20 | 5/37/115/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 19 | LHG | 3 | 319 | 17 | - | 11/23/23/53 | - |
| 27 | LUT | 1 | 316 | - | - | 2/29/67/67 | 0/2/2/2 |
| 20 | BCR | F | 305 | - | - | 4/29/63/63 | 0/2/2/2 |
| 20 | BCR | L | 201 | - | - | 8/29/63/63 | 0/2/2/2 |
| 17 | CLA | A | 836 | 1 | 1/1/12/20 | 0/19/97/115 | - |
| 17 | CLA | 9 | 613 | 16 | 1/1/11/20 | 0/13/91/115 | - |
| 17 | CLA | 7 | 610 | 19 | 1/1/10/20 | 0/8/86/115 | - |
| 17 | CLA | 3 | 303 | 15 | 1/1/12/20 | 2/19/97/115 | - |
| 17 | CLA | B | 823 | 2 | 1/1/14/20 | 12/31/109/115 | - |
| 17 | CLA | 2 | 608 | 14 | 1/1/12/20 | 3/19/97/115 | - |
| 17 | CLA | 8 | 308 | 15 | 1/1/12/20 | 1/19/97/115 | - |
| 17 | CLA | 2 | 613 | 14 | 1/1/10/20 | 6/11/89/115 | - |
| 17 | CLA | G | 101 | 29 | 1/1/11/20 | 2/13/91/115 | - |
| 17 | CLA | b | 841 | 19 | 1/1/15/20 | 4/37/115/115 | - |
| 17 | CLA | 2 | 604 | 29 | 1/1/14/20 | 9/31/109/115 | - |
| 17 | CLA | b | 827 | 2 | 1/1/15/20 | 14/37/115/115 | - |
| 17 | CLA | a | 824 | 1 | 1/1/12/20 | 8/21/99/115 | - |
| 17 | CLA | B | 816 | 2 | 1/1/13/20 | 9/25/103/115 | - |
| 17 | CLA | B | 824 | 29 | - | 7/37/115/115 | - |
| 17 | CLA | 9 | 612 | 16 | 1/1/13/20 | 10/27/105/115 | - |
| 20 | BCR | 2 | 617 | - | - | 3/29/63/63 | 0/2/2/2 |
| 17 | CLA | B | 806 | 2 | 1/1/15/20 | 16/37/115/115 | - |
| 20 | BCR | B | 846 | - | - | 4/29/63/63 | 0/2/2/2 |
| 20 | BCR | K | 4001 | - | - | 1/29/63/63 | 0/2/2/2 |
| 17 | CLA | 7 | 608 | 14 | 1/1/12/20 | 6/19/97/115 | - |
| 17 | CLA | 6 | 304 | 13 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | 9 | 602 | 16 | 1/1/14/20 | 10/31/109/115 | - |
| 17 | CLA | a | 814 | 1 | 1/1/15/20 | 11/37/115/115 | - |
| 17 | CLA | A | 824 | 1 | 1/1/12/20 | 9/21/99/115 | - |
| 17 | CLA | f | 7003 | 6 | - | 9/25/103/115 | - |
| 17 | CLA | B | 833 | 2 | 1/1/13/20 | 9/29/107/115 | - |
| 20 | BCR | l | 206 | - | - | 0/29/63/63 | 0/2/2/2 |
| 24 | DGD | b | 849 | - | - | 10/55/95/95 | 0/2/2/2 |
| 17 | CLA | a | 827 | 29 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | 1 | 311 | 19 | 1/1/10/20 | 0/8/86/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 17 | CLA | a | 840 | 1 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | 8 | 302 | 15 | 1/1/12/20 | 1/19/97/115 | - |
| 17 | CLA | a | 803 | 29 | 1/1/15/20 | 1/37/115/115 | - |
| 17 | CLA | a | 805 | 1 | 1/1/13/20 | 9/25/103/115 | - |
| 17 | CLA | a | 825 | 1 | 1/1/13/20 | 6/25/103/115 | - |
| 17 | CLA | 9 | 614 | 16 | 1/1/11/20 | 4/16/94/115 | - |
| 28 | XAT | 2 | 616 | - | - | 0/31/93/93 | 0/4/4/4 |
| 17 | CLA | k | 1401 | - | 1/1/11/20 | 5/13/91/115 | - |
| 17 | CLA | 4 | 614 | 16 | 1/1/12/20 | 2/19/97/115 | - |
| 20 | BCR | G | 105 | - | - | 3/29/63/63 | 0/2/2/2 |
| 26 | CHL | 4 | 615 | 16 | 3/3/15/26 | 0/12/110/137 | - |
| 25 | LMG | 6 | 302 | - | - | 6/35/55/70 | 0/1/1/1 |
| 17 | CLA | 6 | 306 | 29 | 1/1/12/20 | 3/21/99/115 | - |
| 22 | HTG | F | 302 | - | - | 2/10/30/30 | 0/1/1/1 |
| 17 | CLA | 3 | 306 | 15 | 1/1/11/20 | 3/16/94/115 | - |
| 18 | PQN | b | 842 | - | - | 3/23/43/43 | 0/2/2/2 |
| 17 | CLA | B | 832 | 2 | 1/1/15/20 | 14/37/115/115 | - |
| 27 | LUT | 3 | 316 | - | - | 2/29/67/67 | 0/2/2/2 |
| 17 | CLA | B | 839 | 29 | 1/1/15/20 | 7/37/115/115 | - |
| 17 | CLA | B | 831 | 2 | 1/1/11/20 | 8/18/96/115 | - |
| 17 | CLA | 6 | 307 | - | 1/1/10/20 | 4/10/88/115 | - |
| 20 | BCR | A | 850 | - | - | 3/29/63/63 | 0/2/2/2 |
| 19 | LHG | 6 | 301 | 17 | - | 7/26/26/53 | - |
| 17 | CLA | a | 813 | 1 | 1/1/12/20 | 6/24/102/115 | - |
| 17 | CLA | b | 829 | 2 | 1/1/15/20 | 6/37/115/115 | - |
| 17 | CLA | A | 821 | 1 | 1/1/11/20 | 2/13/91/115 | - |
| 17 | CLA | B | 817 | 2 | 1/1/13/20 | 10/30/108/115 | - |
| 19 | LHG | 1 | 319 | 17 | - | 10/53/53/53 | - |
| 20 | BCR | 6 | 319 | - | - | 4/29/63/63 | 0/2/2/2 |
| 27 | LUT | 6 | 317 | - | - | 2/29/67/67 | 0/2/2/2 |
| 17 | CLA | B | 835 | 29 | 1/1/11/20 | 1/13/91/115 | - |
| 17 | CLA | A | 817 | 29 | - | 3/13/91/115 | - |
| 20 | BCR | I | 101 | - | - | 3/29/63/63 | 0/2/2/2 |
| 17 | CLA | b | 833 | 2 | 1/1/13/20 | 8/29/107/115 | - |
| 17 | CLA | A | 845 | 19 | 1/1/12/20 | 10/22/100/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|---------------|---------|
| 17 | CLA | b | 840 | 2 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | 8 | 305 | 15 | 1/1/11/20 | 3/16/94/115 | - |
| 17 | CLA | a | 844 | 29 | 1/1/15/20 | 12/37/115/115 | - |
| 17 | CLA | A | 814 | 1 | 1/1/15/20 | 16/37/115/115 | - |
| 20 | BCR | A | 856 | - | - | 4/29/63/63 | 0/2/2/2 |
| 17 | CLA | 9 | 604 | 29 | 1/1/12/20 | 5/19/97/115 | - |
| 25 | LMG | 4 | 620 | - | - | 11/39/59/70 | 0/1/1/1 |
| 17 | CLA | B | 815 | 2 | 1/1/14/20 | 10/31/109/115 | - |
| 17 | CLA | 4 | 609 | 16 | 1/1/14/20 | 5/31/109/115 | - |
| 17 | CLA | a | 812 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | b | 808 | 2 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | B | 821 | 2 | 1/1/11/20 | 1/15/93/115 | - |
| 19 | LHG | 1 | 301 | 17 | - | 9/26/26/53 | - |
| 17 | CLA | a | 829 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 20 | BCR | B | 843 | - | - | 0/29/63/63 | 0/2/2/2 |
| 17 | CLA | B | 837 | 2 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | 4 | 613 | 16 | 1/1/11/20 | 2/13/91/115 | - |
| 26 | CHL | 2 | 607 | 29 | 3/3/17/26 | 5/21/119/137 | - |
| 17 | CLA | A | 828 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | 1 | 313 | 13 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | l | 203 | 12 | 1/1/15/20 | 6/37/115/115 | - |
| 20 | BCR | a | 850 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | 4 | 603 | 16 | 1/1/11/20 | 2/15/93/115 | - |
| 17 | CLA | 3 | 302 | 15 | 1/1/14/20 | 8/31/109/115 | - |
| 26 | CHL | 9 | 606 | 29 | 3/3/17/26 | 4/21/119/137 | - |
| 17 | CLA | 3 | 314 | 15 | 1/1/11/20 | 1/15/93/115 | - |
| 17 | CLA | B | 820 | 2 | 1/1/12/20 | 3/19/97/115 | - |
| 22 | HTG | A | 855 | - | - | 1/10/30/30 | 0/1/1/1 |
| 17 | CLA | 1 | 306 | - | 1/1/12/20 | 2/22/100/115 | - |
| 17 | CLA | 9 | 608 | 16 | 1/1/12/20 | 4/19/97/115 | - |
| 20 | BCR | B | 848 | - | - | 2/29/63/63 | 0/2/2/2 |
| 26 | CHL | 9 | 615 | 16 | 3/3/15/26 | 0/12/110/137 | - |
| 17 | CLA | b | 831 | 2 | 1/1/11/20 | 7/18/96/115 | - |
| 17 | CLA | A | 833 | 1 | 1/1/15/20 | 7/37/115/115 | - |
| 17 | CLA | B | 826 | 2 | 1/1/15/20 | 10/37/115/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 19 | LHG | 7 | 618 | 17 | - | 10/41/41/53 | - |
| 21 | SF4 | c | 102 | 3 | - | - | 0/6/5/5 |
| 17 | CLA | b | 809 | 2 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | 8 | 311 | 15 | 1/1/11/20 | 3/13/91/115 | - |
| 17 | CLA | b | 838 | 2 | 1/1/11/20 | 2/16/94/115 | - |
| 26 | CHL | 2 | 614 | 14 | 3/3/15/26 | 0/12/110/137 | - |
| 17 | CLA | 2 | 602 | 14 | 1/1/15/20 | 13/37/115/115 | - |
| 20 | BCR | b | 844 | - | - | 6/29/63/63 | 0/2/2/2 |
| 26 | CHL | 7 | 614 | 14 | 3/3/15/26 | 3/12/110/137 | - |
| 17 | CLA | B | 827 | 2 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | 3 | 311 | - | 1/1/12/20 | 6/22/100/115 | - |
| 21 | SF4 | C | 102 | 3 | - | - | 0/6/5/5 |
| 17 | CLA | b | 821 | 2 | 1/1/11/20 | 3/15/93/115 | - |
| 17 | CLA | 6 | 312 | 19 | 1/1/10/20 | 0/8/86/115 | - |
| 17 | CLA | a | 838 | 1 | 1/1/12/20 | 9/21/99/115 | - |
| 21 | SF4 | c | 101 | 3 | - | - | 0/6/5/5 |
| 17 | CLA | A | 832 | 1 | 1/1/12/20 | 2/19/97/115 | - |
| 17 | CLA | a | 843 | 1 | 1/1/15/20 | 14/37/115/115 | - |
| 17 | CLA | b | 818 | 2 | 1/1/14/20 | 13/31/109/115 | - |
| 17 | CLA | A | 818 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 17 | CLA | 2 | 610 | 19 | 1/1/10/20 | 0/8/86/115 | - |
| 17 | CLA | B | 810 | 2 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | b | 834 | 2 | 1/1/15/20 | 13/37/115/115 | - |
| 28 | XAT | 6 | 318 | - | - | 1/31/93/93 | 0/4/4/4 |
| 17 | CLA | B | 836 | 2 | 1/1/14/20 | 5/31/109/115 | - |
| 28 | XAT | 4 | 617 | - | - | 0/31/93/93 | 0/4/4/4 |
| 17 | CLA | 2 | 609 | 14 | 1/1/14/20 | 8/31/109/115 | - |
| 17 | CLA | 6 | 316 | 13 | 1/1/11/20 | 3/15/93/115 | - |
| 18 | PQN | A | 844 | - | - | 8/23/43/43 | 0/2/2/2 |
| 17 | CLA | 2 | 603 | 14 | 1/1/15/20 | 11/37/115/115 | - |
| 20 | BCR | 7 | 617 | - | - | 4/29/63/63 | 0/2/2/2 |
| 17 | CLA | K | 4003 | 11 | 1/1/11/20 | 2/15/93/115 | - |
| 17 | CLA | B | 830 | 2 | 1/1/12/20 | 5/19/97/115 | - |
| 17 | CLA | 7 | 611 | 14 | 1/1/12/20 | 5/22/100/115 | - |
| 20 | BCR | b | 848 | - | - | 2/29/63/63 | 0/2/2/2 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 17 | CLA | b | 826 | 2 | 1/1/15/20 | 8/37/115/115 | - |
| 28 | XAT | 7 | 616 | - | - | 1/31/93/93 | 0/4/4/4 |
| 19 | LHG | A | 847 | 17 | - | 9/31/31/53 | - |
| 20 | BCR | b | 845 | - | - | 6/29/63/63 | 0/2/2/2 |
| 22 | HTG | J | 3001 | - | - | 4/10/30/30 | 0/1/1/1 |
| 17 | CLA | 7 | 613 | 14 | - | 0/11/89/115 | - |
| 17 | CLA | a | 834 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | B | 812 | 2 | 1/1/13/20 | 8/25/103/115 | - |
| 17 | CLA | A | 822 | 29 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | b | 823 | 2 | 1/1/14/20 | 6/31/109/115 | - |
| 17 | CLA | 8 | 309 | - | 1/1/12/20 | 5/22/100/115 | - |
| 17 | CLA | 8 | 304 | 29 | 1/1/10/20 | 0/10/88/115 | - |
| 17 | CLA | a | 817 | 29 | 1/1/11/20 | 2/13/91/115 | - |
| 26 | CHL | 7 | 606 | - | 3/3/16/26 | 0/18/116/137 | - |
| 20 | BCR | j | 3003 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | 2 | 612 | 14 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | 7 | 612 | 14 | 1/1/15/20 | 8/37/115/115 | - |
| 28 | XAT | 9 | 617 | - | - | 0/31/93/93 | 0/4/4/4 |
| 21 | SF4 | C | 101 | 3 | - | - | 0/6/5/5 |
| 17 | CLA | K | 4002 | - | 1/1/11/20 | 4/13/91/115 | - |
| 17 | CLA | A | 816 | 1 | 1/1/12/20 | 3/19/97/115 | - |
| 17 | CLA | 1 | 304 | 13 | 1/1/15/20 | 12/37/115/115 | - |
| 17 | CLA | a | 819 | 1 | 1/1/15/20 | 14/37/115/115 | - |
| 17 | CLA | b | 810 | 2 | 1/1/15/20 | 14/37/115/115 | - |
| 17 | CLA | b | 824 | 29 | 1/1/15/20 | 10/37/115/115 | - |
| 27 | LUT | 1 | 320 | - | - | 2/29/67/67 | 0/2/2/2 |
| 17 | CLA | 3 | 308 | 15 | 1/1/12/20 | 5/19/97/115 | - |
| 20 | BCR | b | 846 | - | - | 5/29/63/63 | 0/2/2/2 |
| 17 | CLA | a | 822 | 29 | 1/1/15/20 | 3/37/115/115 | - |
| 17 | CLA | A | 804 | 1 | 1/1/15/20 | 7/37/115/115 | - |
| 17 | CLA | B | 822 | 2 | 1/1/13/20 | 11/25/103/115 | - |
| 17 | CLA | A | 825 | 1 | 1/1/13/20 | 7/25/103/115 | - |
| 17 | CLA | a | 835 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | k | 1402 | 11 | 1/1/11/20 | 0/15/93/115 | - |
| 17 | CLA | 4 | 604 | 29 | 1/1/12/20 | 5/19/97/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|------|------|-----------|---------------|---------|
| 17 | CLA | 3 | 305 | 29 | 1/1/10/20 | 2/10/88/115 | - |
| 18 | PQN | a | 845 | - | - | 5/23/43/43 | 0/2/2/2 |
| 17 | CLA | A | 854 | 29 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | A | 820 | 1 | 1/1/15/20 | 12/37/115/115 | - |
| 22 | HTG | f | 7001 | - | - | 1/10/30/30 | 0/1/1/1 |
| 17 | CLA | A | 839 | 1 | 1/1/15/20 | 5/37/115/115 | - |
| 17 | CLA | 6 | 311 | 13 | 1/1/14/20 | 9/31/109/115 | - |
| 17 | CLA | 4 | 602 | 16 | 1/1/14/20 | 6/31/109/115 | - |
| 20 | BCR | g | 104 | - | - | 2/29/63/63 | 0/2/2/2 |
| 17 | CLA | A | 813 | 1 | 1/1/12/20 | 7/24/102/115 | - |
| 17 | CLA | B | 814 | 2 | 1/1/15/20 | 12/37/115/115 | - |
| 17 | CLA | 1 | 303 | 13 | 1/1/15/20 | 9/37/115/115 | - |
| 17 | CLA | b | 832 | 2 | 1/1/15/20 | 12/37/115/115 | - |
| 26 | CHL | 9 | 607 | 29 | 3/3/17/26 | 3/21/119/137 | - |
| 20 | BCR | B | 801 | - | - | 1/29/63/63 | 0/2/2/2 |
| 17 | CLA | 8 | 301 | 15 | 1/1/14/20 | 11/31/109/115 | - |
| 17 | CLA | g | 103 | 7 | 1/1/11/20 | 2/15/93/115 | - |
| 17 | CLA | B | 805 | 2 | 1/1/15/20 | 16/37/115/115 | - |
| 20 | BCR | l | 201 | - | - | 8/29/63/63 | 0/2/2/2 |
| 24 | DGD | B | 850 | - | - | 12/55/95/95 | 0/2/2/2 |
| 17 | CLA | B | 807 | 2 | 1/1/15/20 | 14/37/115/115 | - |
| 17 | CLA | A | 830 | 1 | 1/1/15/20 | 13/37/115/115 | - |
| 17 | CLA | 7 | 609 | 14 | 1/1/14/20 | 7/31/109/115 | - |
| 17 | CLA | A | 837 | 1 | 1/1/11/20 | 5/13/91/115 | - |
| 17 | CLA | 9 | 609 | 16 | 1/1/14/20 | 4/31/109/115 | - |
| 17 | CLA | 9 | 611 | 16 | 1/1/12/20 | 6/22/100/115 | - |
| 17 | CLA | A | 803 | 29 | 1/1/15/20 | 2/37/115/115 | - |
| 17 | CLA | b | 816 | 2 | 1/1/13/20 | 11/25/103/115 | - |
| 20 | BCR | A | 851 | - | - | 5/29/63/63 | 0/2/2/2 |
| 26 | CHL | 6 | 308 | 13 | 3/3/16/26 | 1/17/115/137 | - |
| 20 | BCR | 9 | 618 | - | - | 6/29/63/63 | 0/2/2/2 |
| 17 | CLA | a | 839 | 1 | 1/1/15/20 | 10/37/115/115 | - |
| 17 | CLA | A | 809 | 1 | 1/1/15/20 | 18/37/115/115 | - |
| 17 | CLA | B | 811 | 2 | 1/1/13/20 | 4/25/101/115 | - |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|-----------|--------------|-------|
| 17 | CLA | 3 | 312 | 15 | 1/1/13/20 | 9/25/103/115 | - |
| 17 | CLA | A | 808 | 1 | 1/1/15/20 | 8/37/115/115 | - |
| 17 | CLA | b | 815 | 2 | 1/1/13/20 | 7/25/103/115 | - |
| 26 | CHL | 4 | 605 | 29 | 2/2/18/26 | 8/27/125/137 | - |
| 17 | CLA | 4 | 610 | 29 | 1/1/13/20 | 5/25/103/115 | - |

The worst 5 of 5213 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|------|-------------|----------|
| 18 | a | 845 | PQN | C3-C2 | 7.78 | 1.49 | 1.35 |
| 18 | b | 842 | PQN | C3-C2 | 7.70 | 1.49 | 1.35 |
| 18 | A | 844 | PQN | C3-C2 | 7.61 | 1.49 | 1.35 |
| 18 | B | 842 | PQN | C3-C2 | 7.59 | 1.49 | 1.35 |
| 17 | 3 | 315 | CLA | C3D-C2D | 6.56 | 1.49 | 1.35 |

The worst 5 of 9160 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|------------|--------|-------------|----------|
| 17 | B | 832 | CLA | C1D-ND-C4D | -10.07 | 99.18 | 106.33 |
| 26 | 4 | 607 | CHL | C2D-C1D-ND | 10.04 | 117.50 | 110.10 |
| 17 | L | 203 | CLA | C1D-ND-C4D | -10.01 | 99.23 | 106.33 |
| 26 | 7 | 606 | CHL | C2D-C1D-ND | 9.96 | 117.44 | 110.10 |
| 26 | 1 | 302 | CHL | C2D-C1D-ND | 9.90 | 117.40 | 110.10 |

5 of 348 chirality outliers are listed below:

| Mol | Chain | Res | Type | Atom |
|-----|-------|-----|------|------|
| 17 | A | 801 | CLA | ND |
| 17 | A | 801 | CLA | CBD |
| 17 | A | 802 | CLA | ND |
| 17 | A | 803 | CLA | ND |
| 17 | A | 804 | CLA | ND |

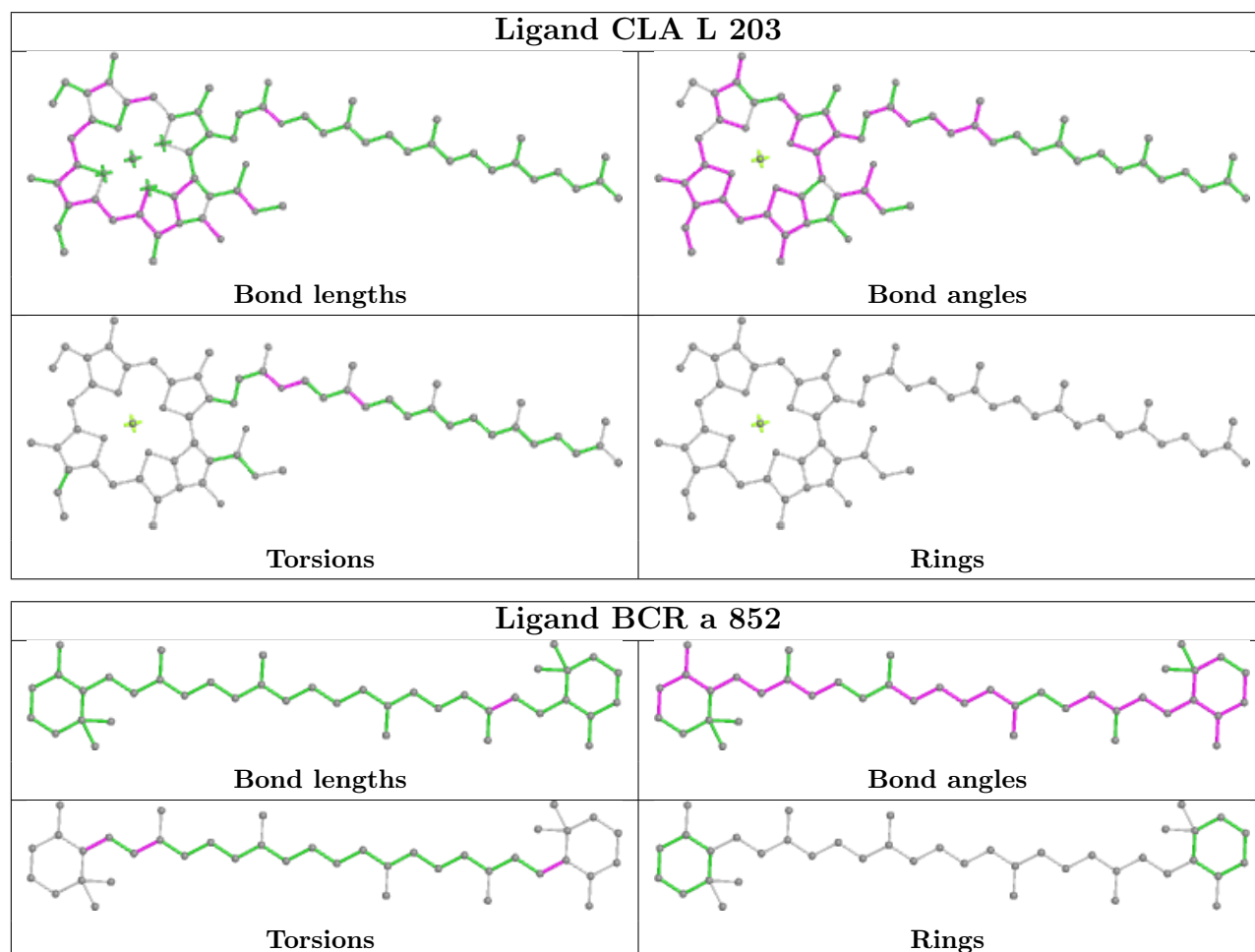
5 of 2543 torsion outliers are listed below:

| Mol | Chain | Res | Type | Atoms |
|-----|-------|-----|------|-----------------|
| 17 | A | 805 | CLA | CHA-CBD-CGD-O1D |
| 17 | A | 809 | CLA | C3A-C2A-CAA-CBA |
| 17 | A | 809 | CLA | CHA-CBD-CGD-O1D |
| 17 | A | 809 | CLA | CHA-CBD-CGD-O2D |
| 17 | A | 811 | CLA | CHA-CBD-CGD-O1D |

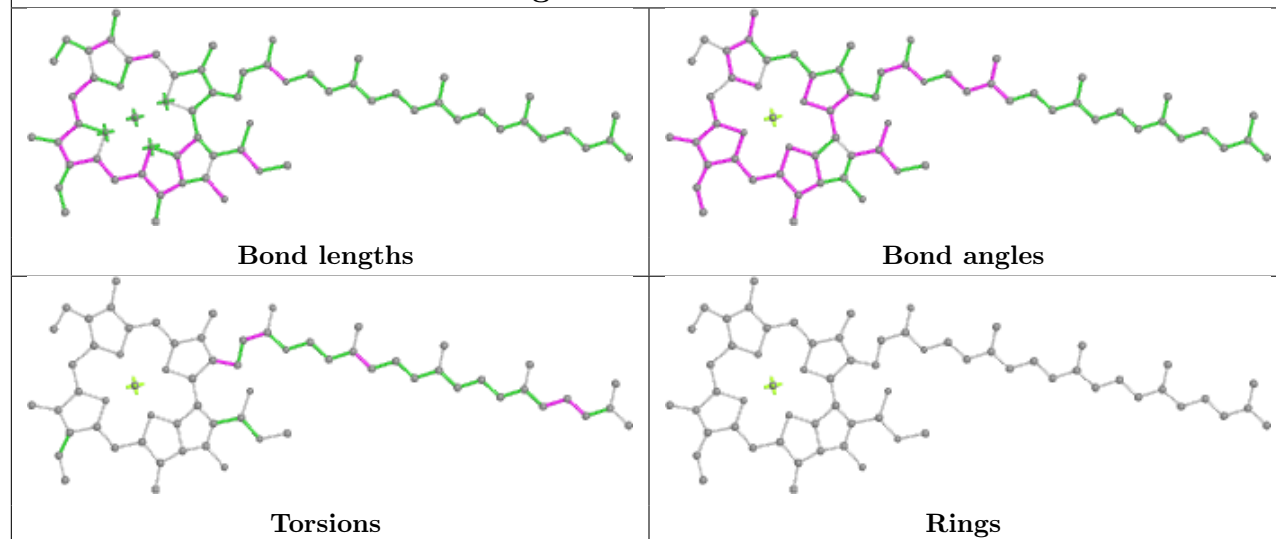
There are no ring outliers.

No monomer is involved in short contacts.

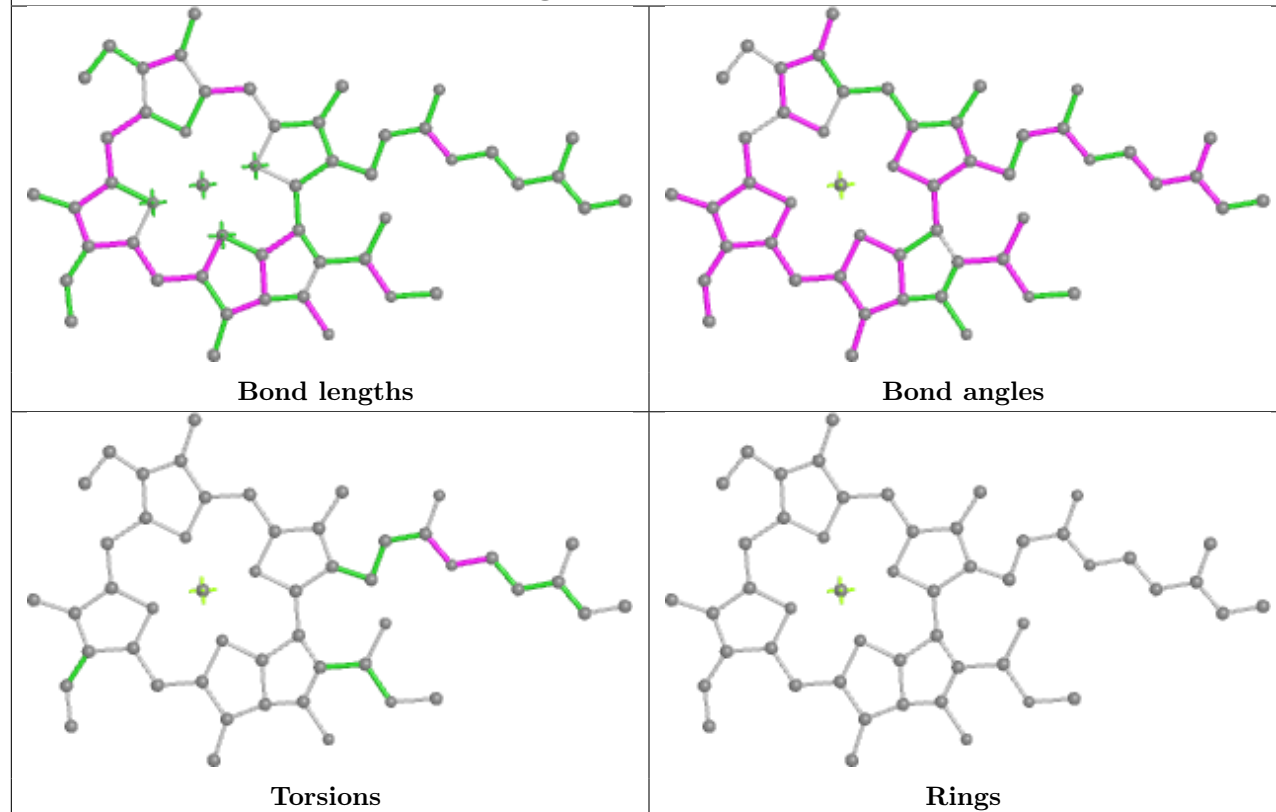
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.



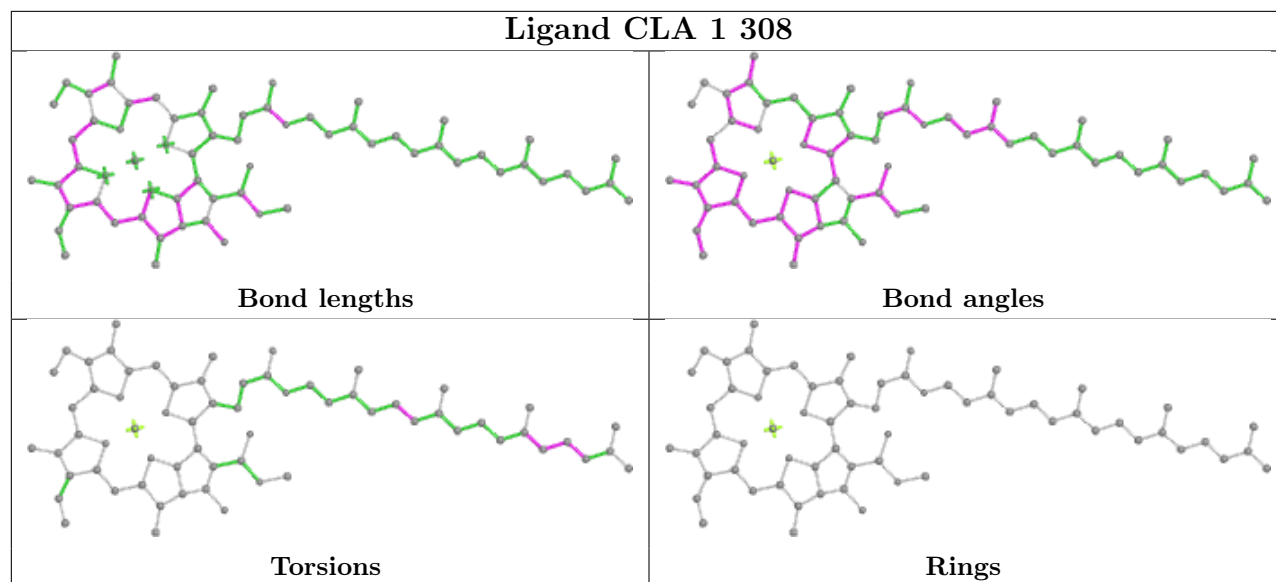
Ligand CLA B 841



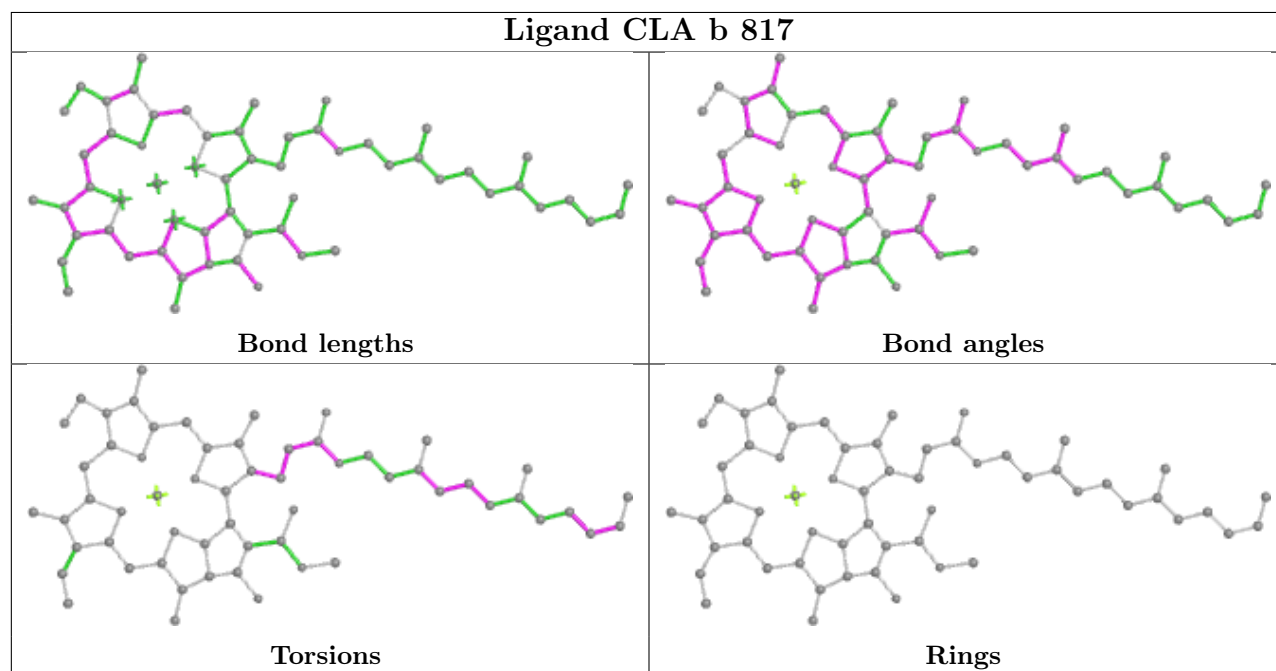
Ligand CLA 7 603



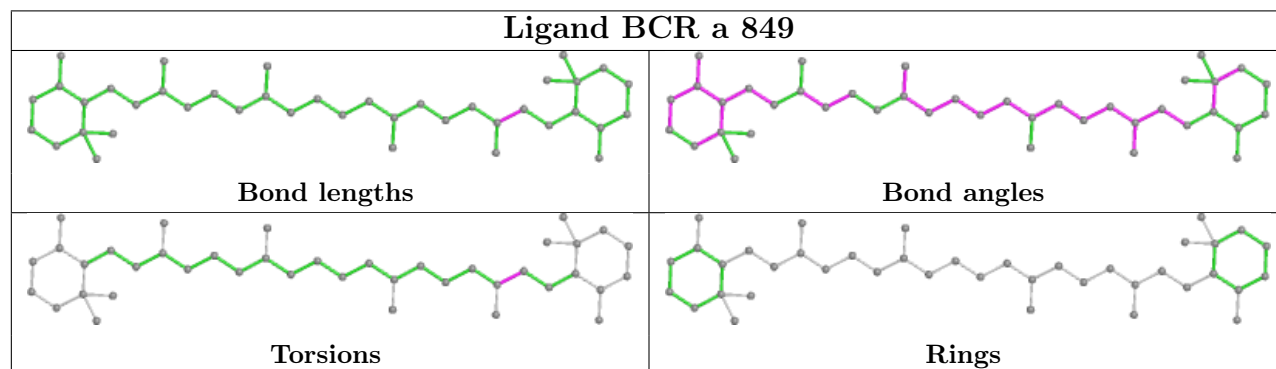
Ligand CLA 1 308

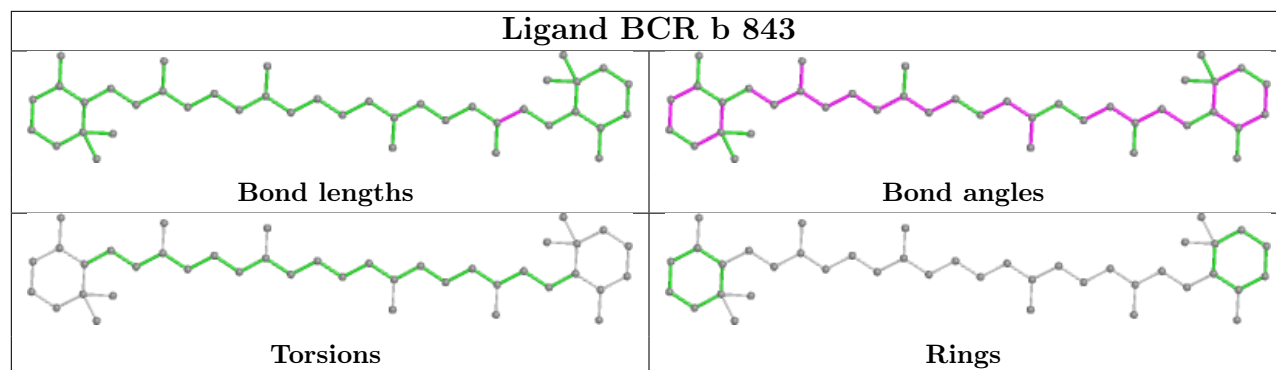
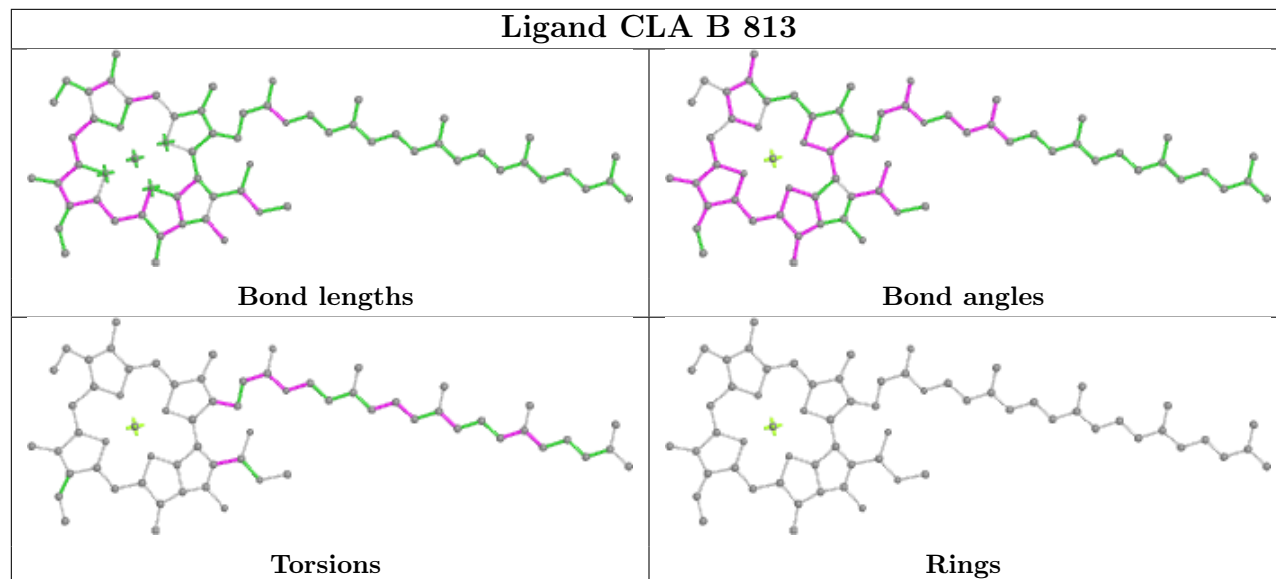


Ligand CLA b 817

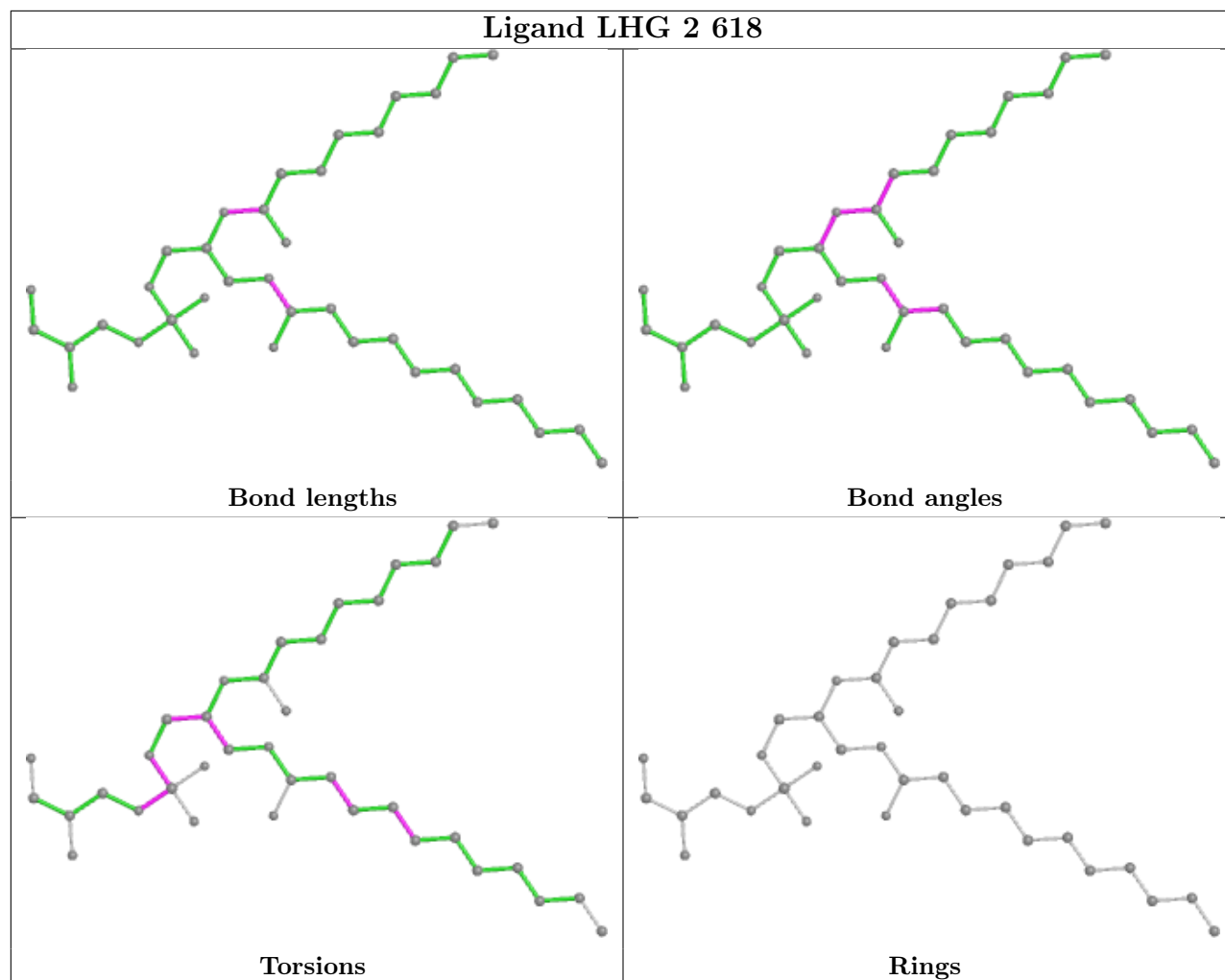


Ligand BCR a 849

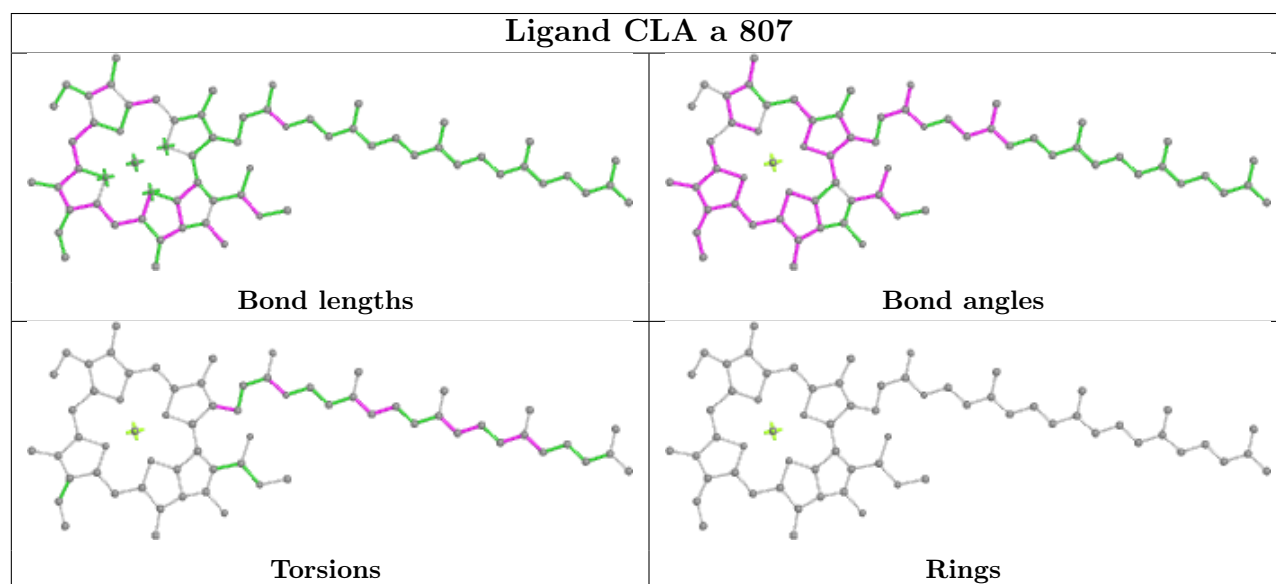


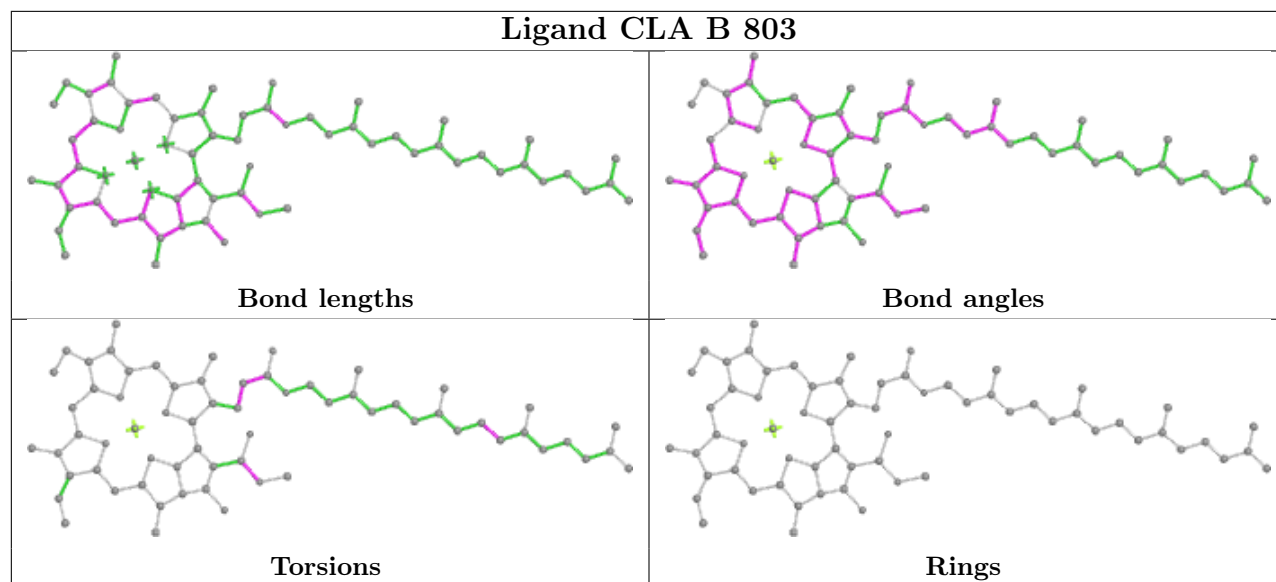
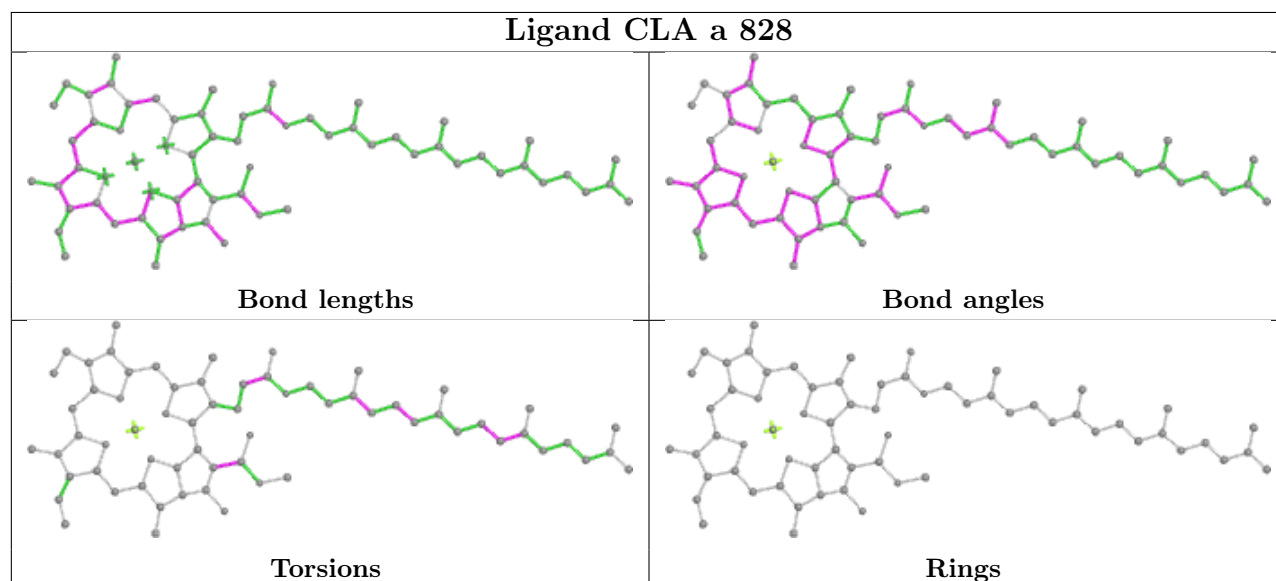
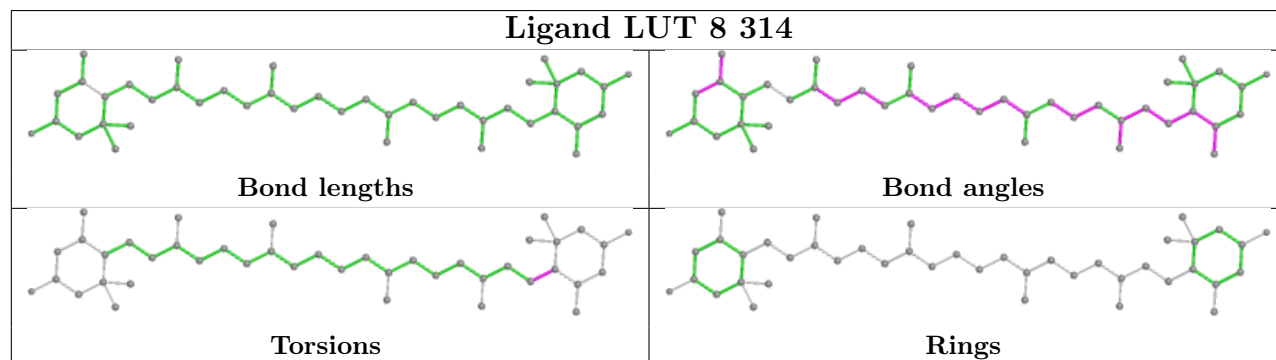
Ligand BCR b 843**Ligand CLA B 813**

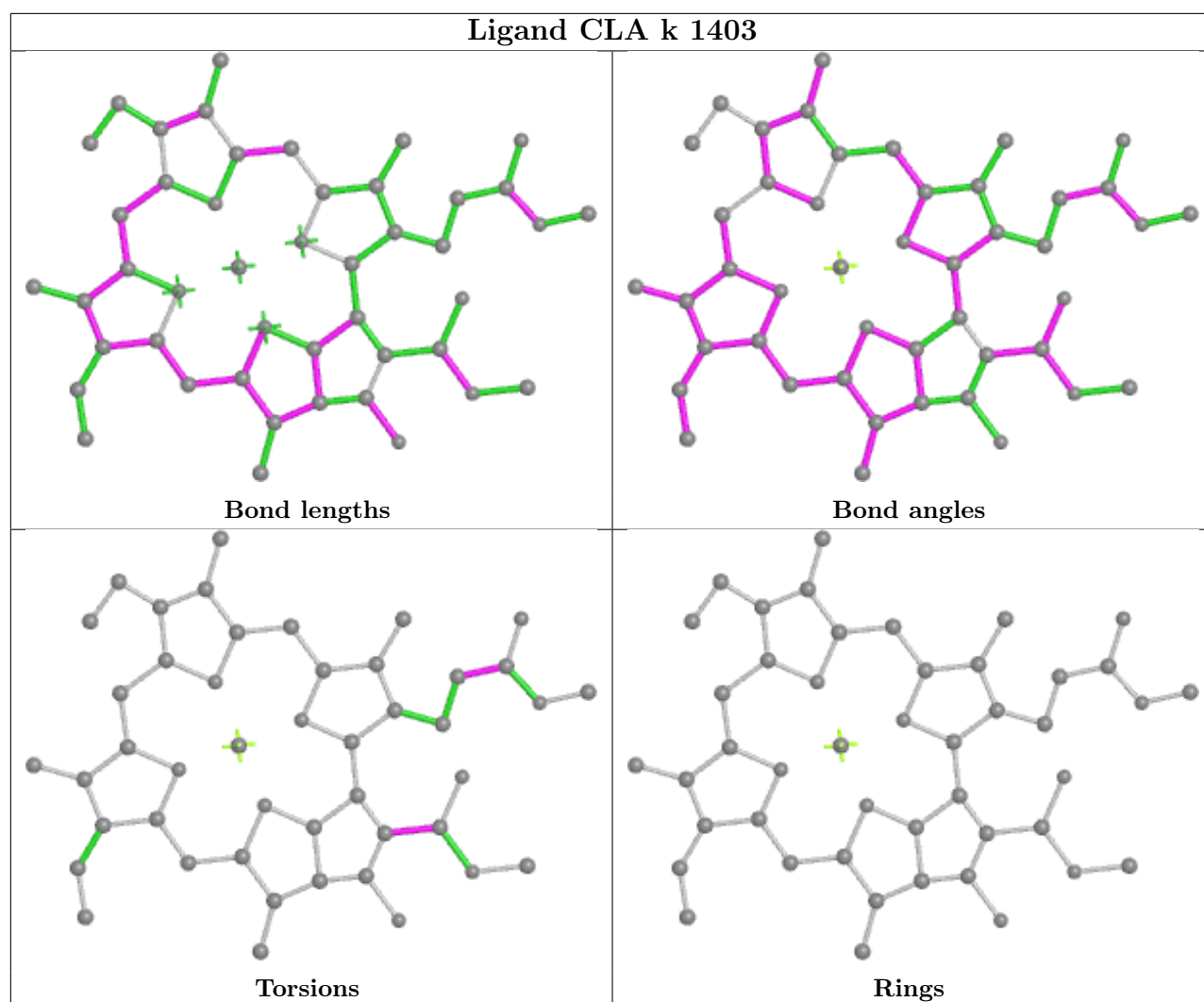
Ligand LHG 2 618

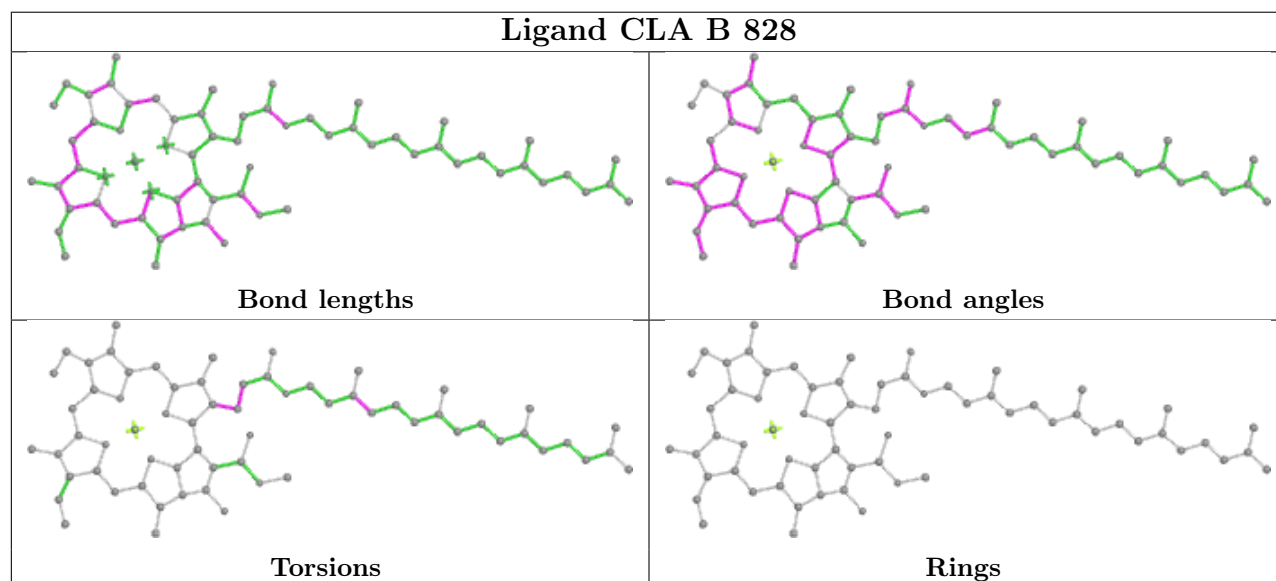
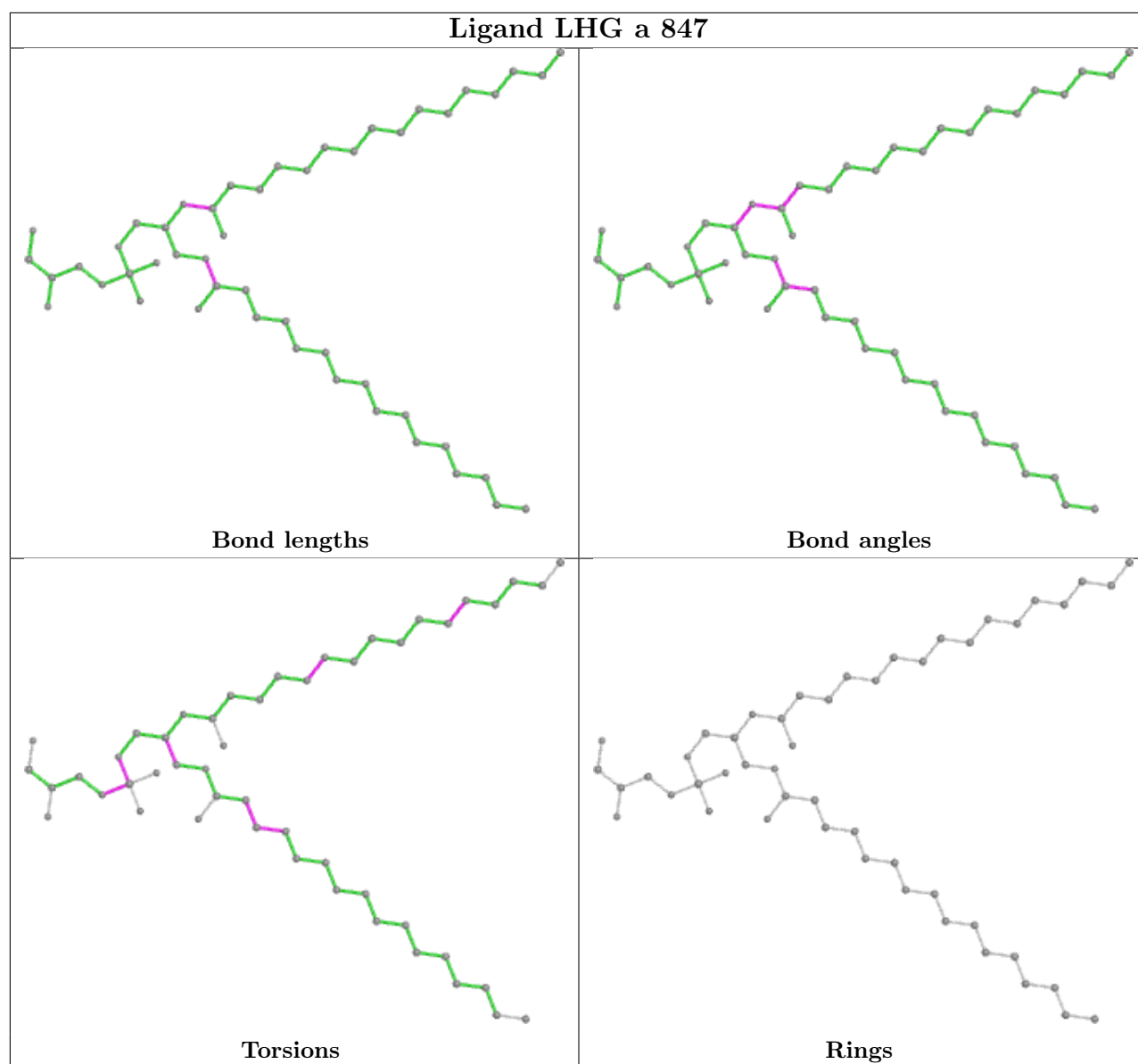


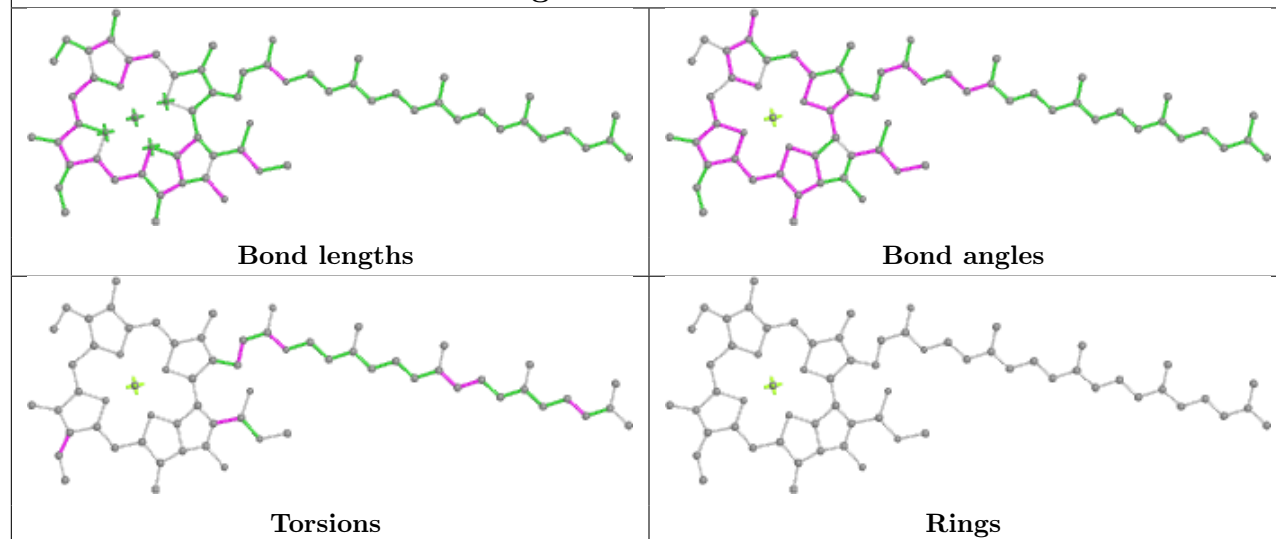
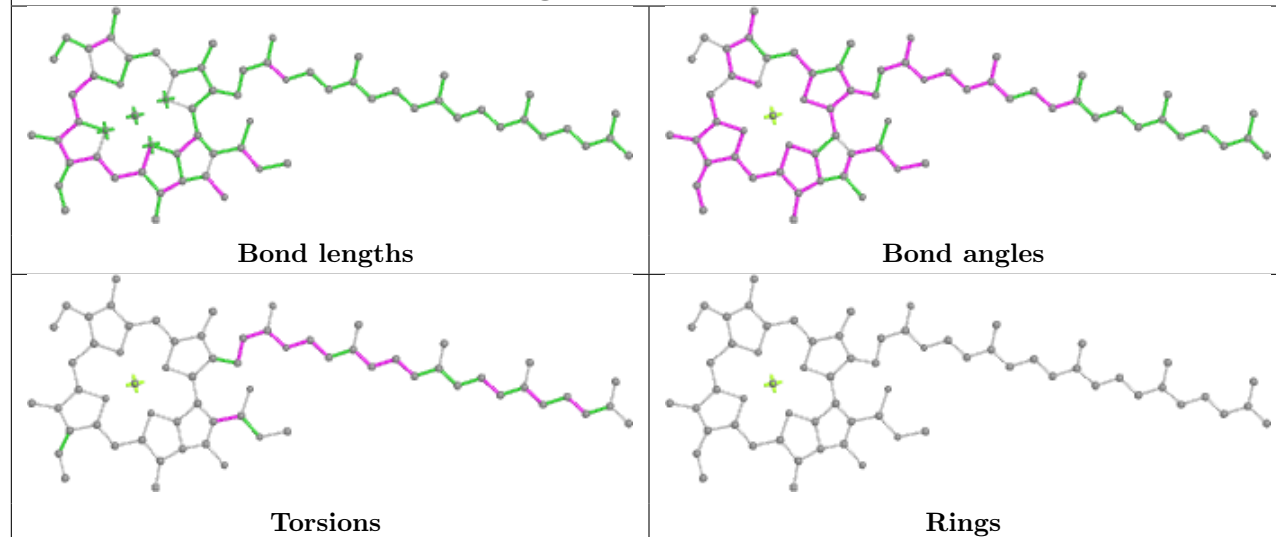
Ligand CLA a 807



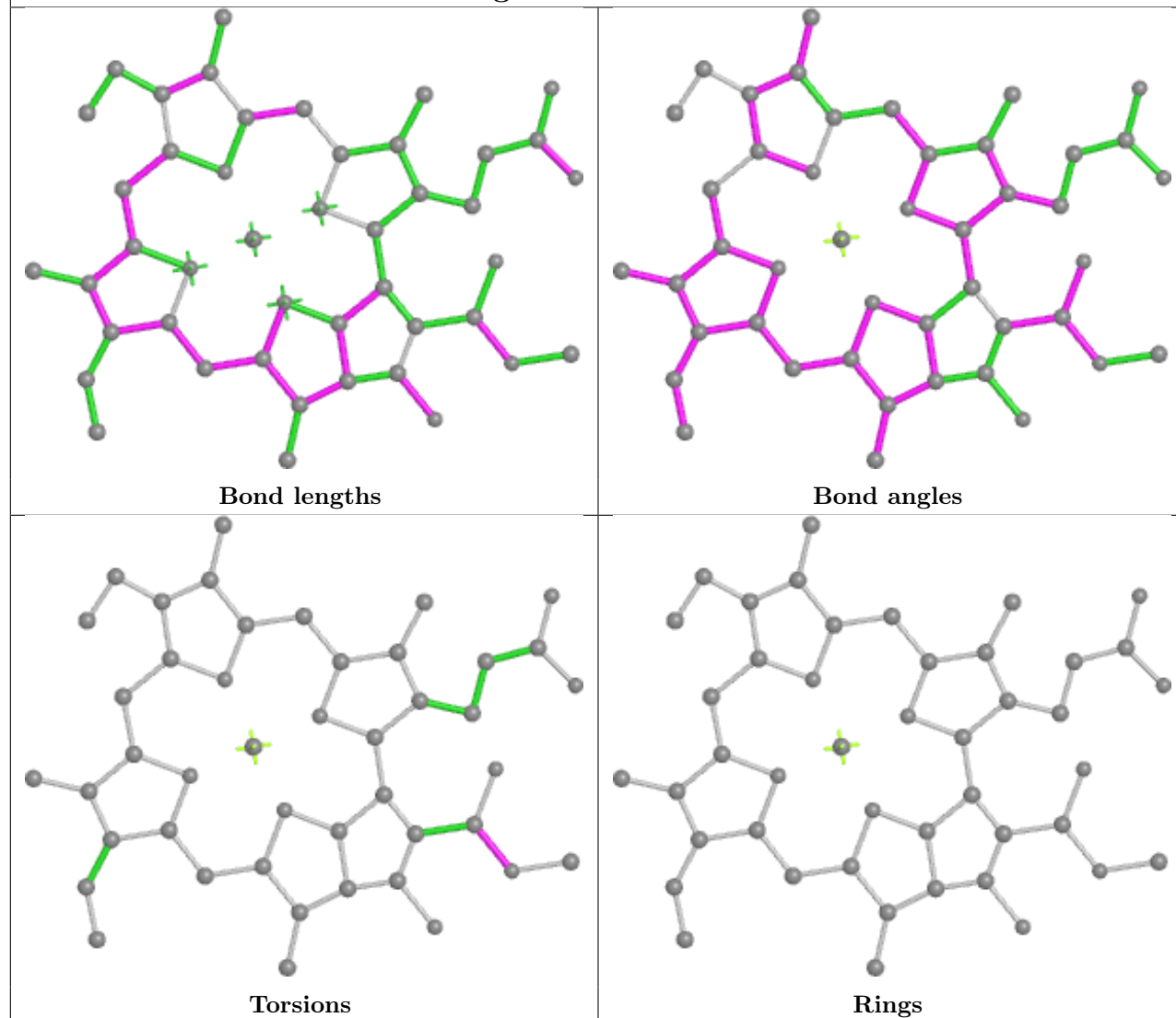
Ligand CLA B 803**Ligand CLA a 828****Ligand LUT 8 314**



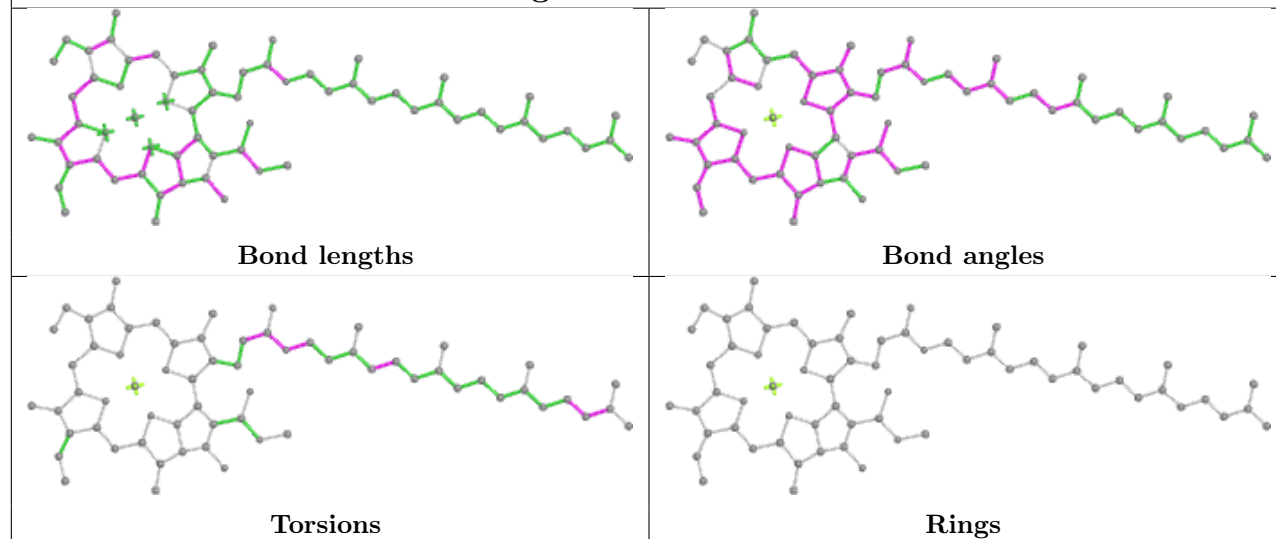


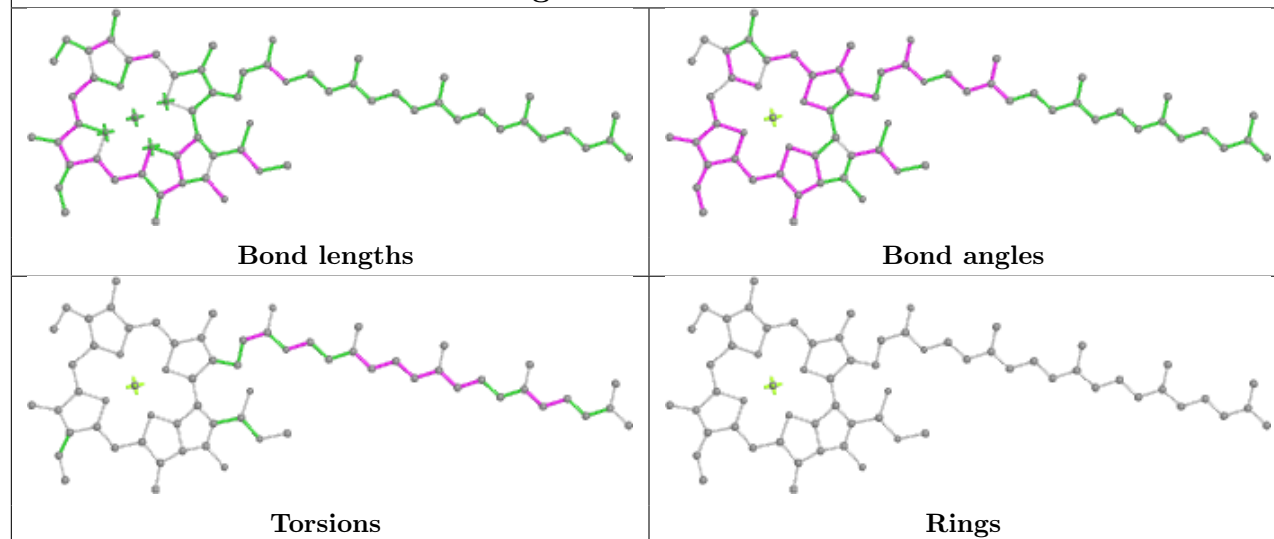
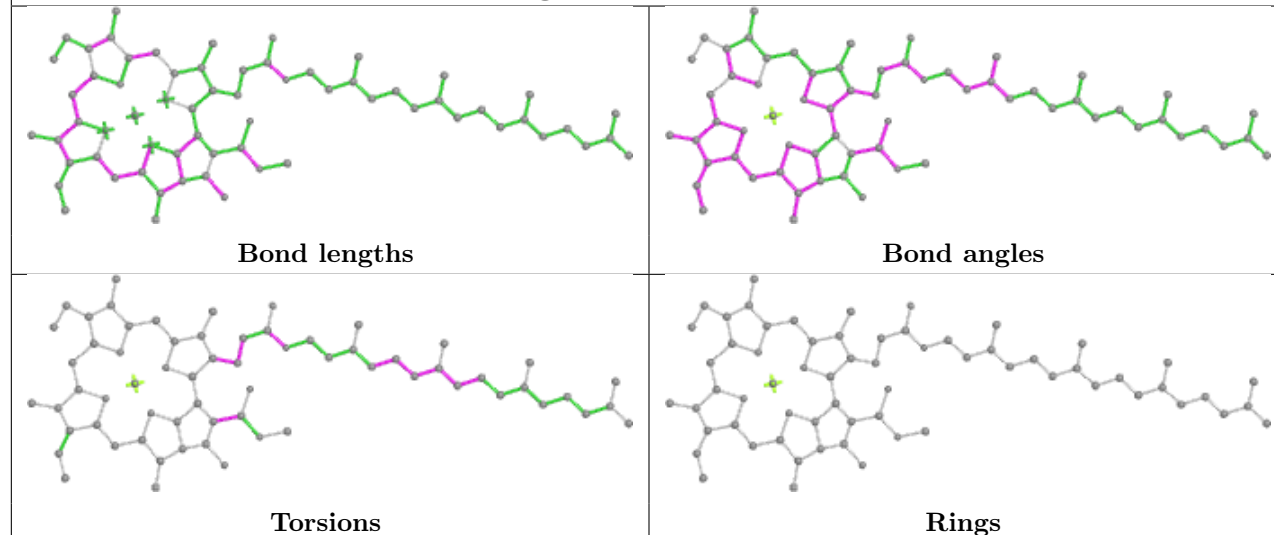
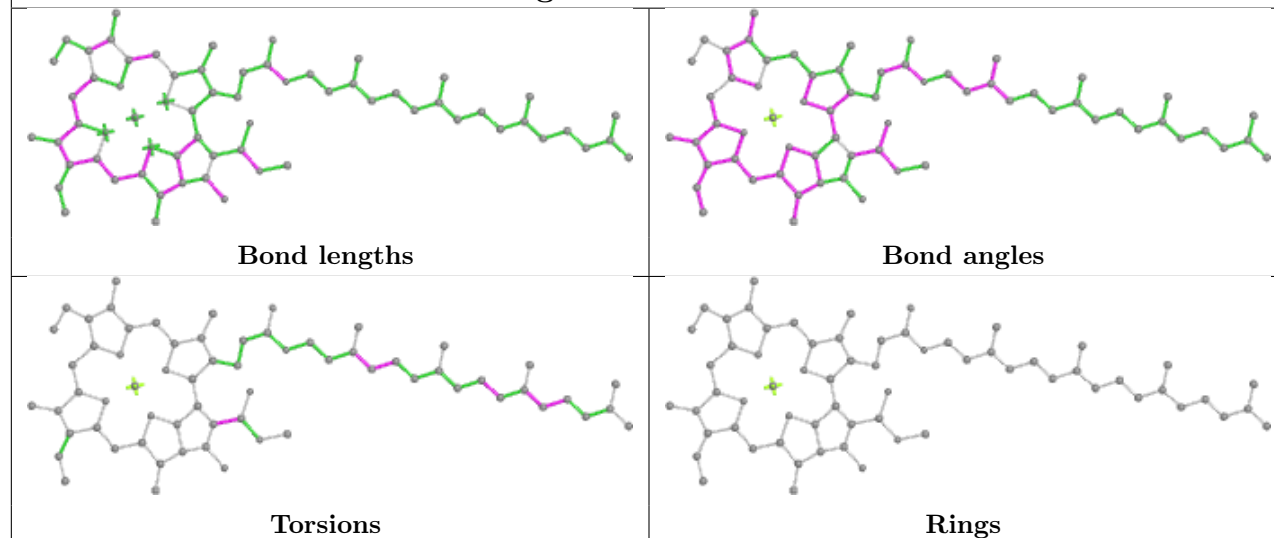
Ligand CLA A 841**Ligand CLA a 802**

Ligand CLA b 835

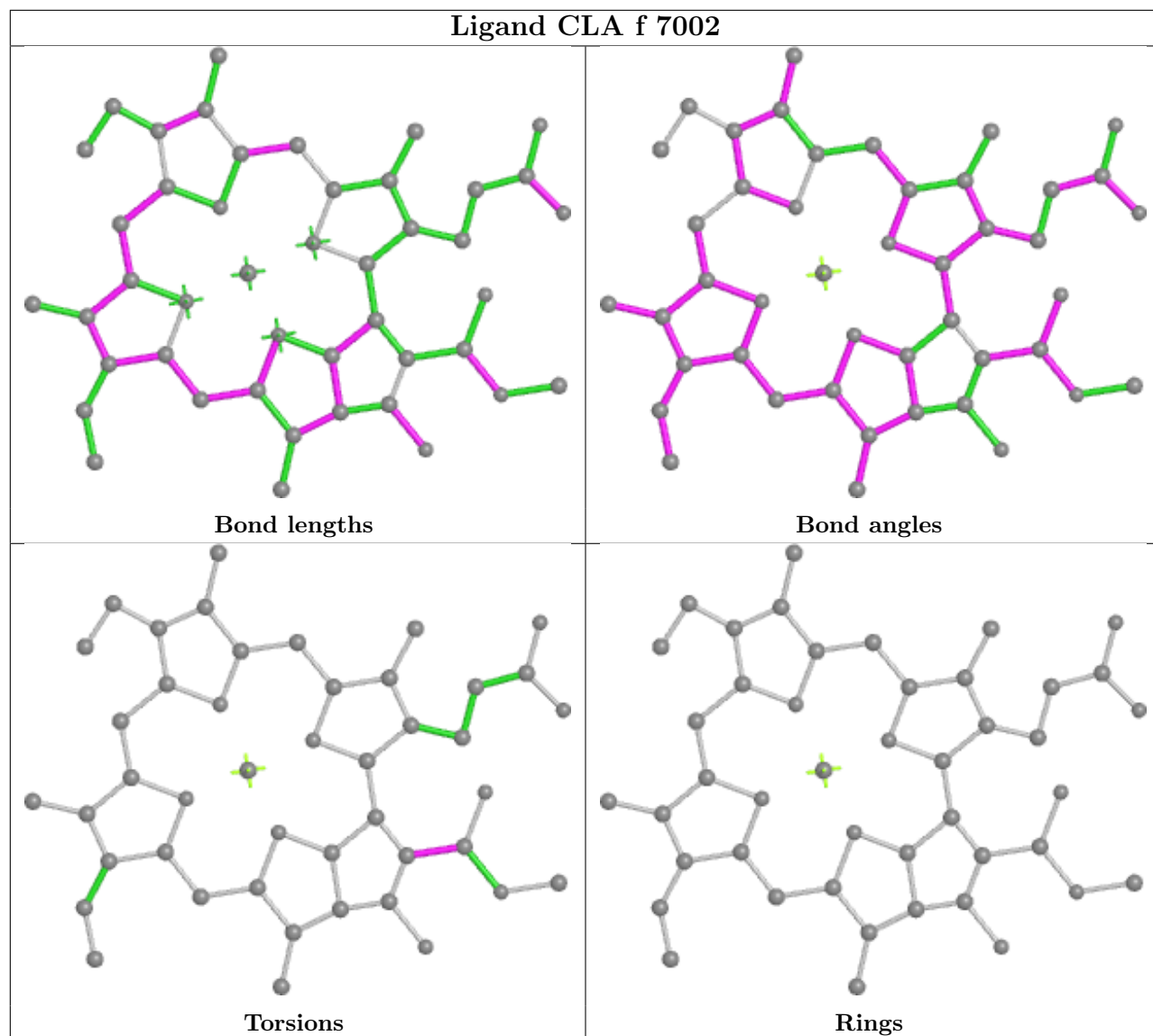


Ligand CLA A 801

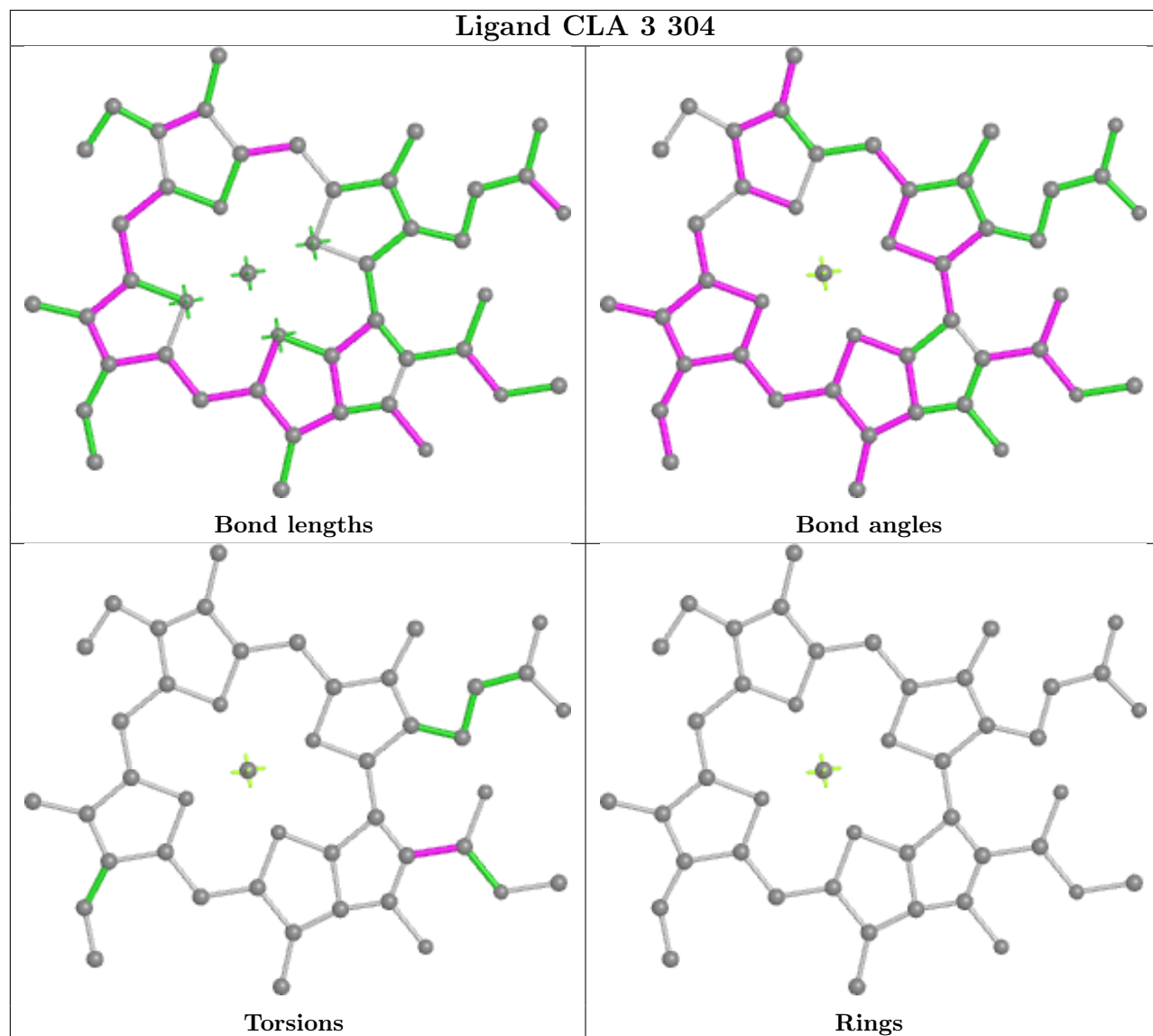


Ligand CLA B 802**Ligand CLA a 809****Ligand CLA a 808**

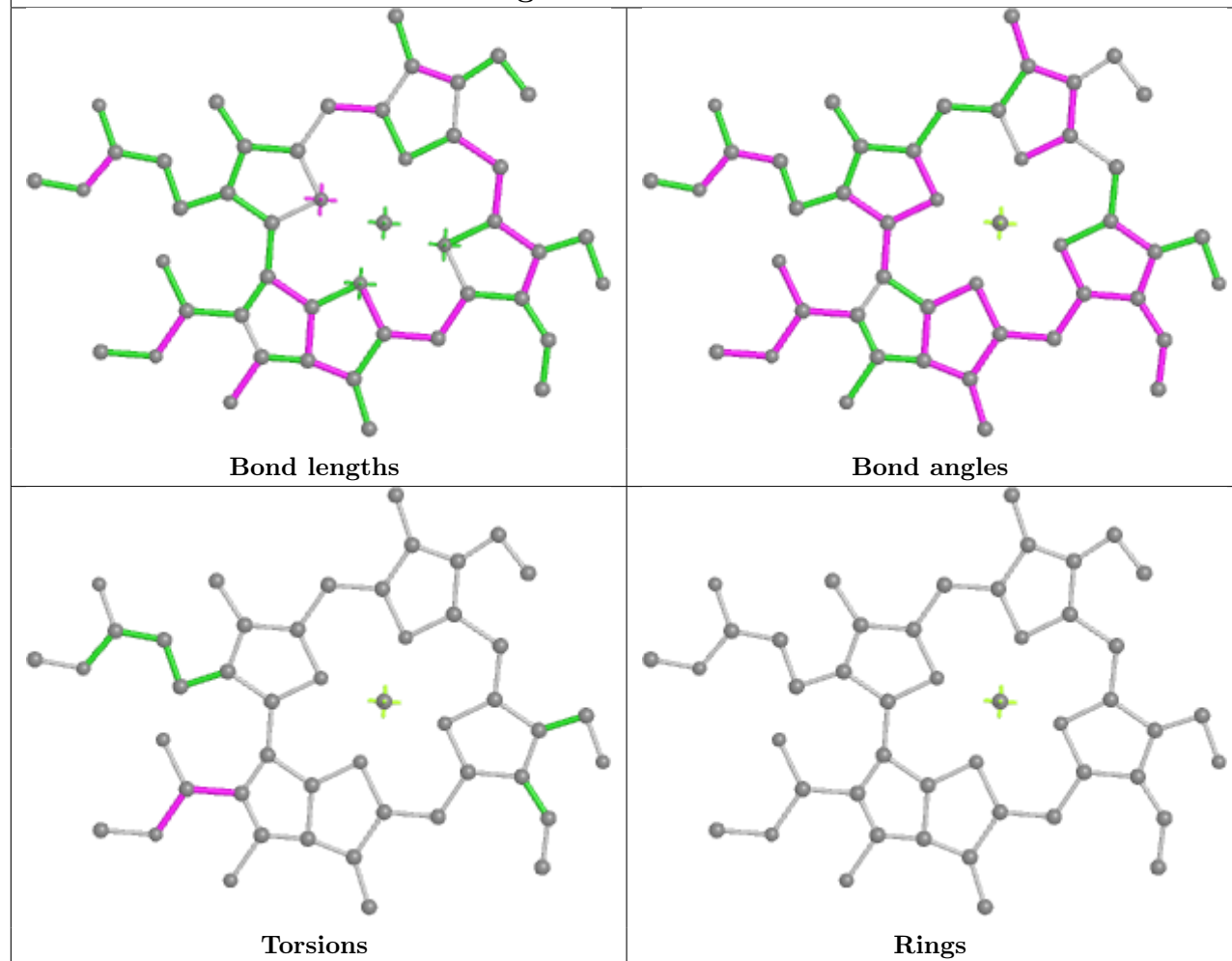
Ligand CLA f 7002



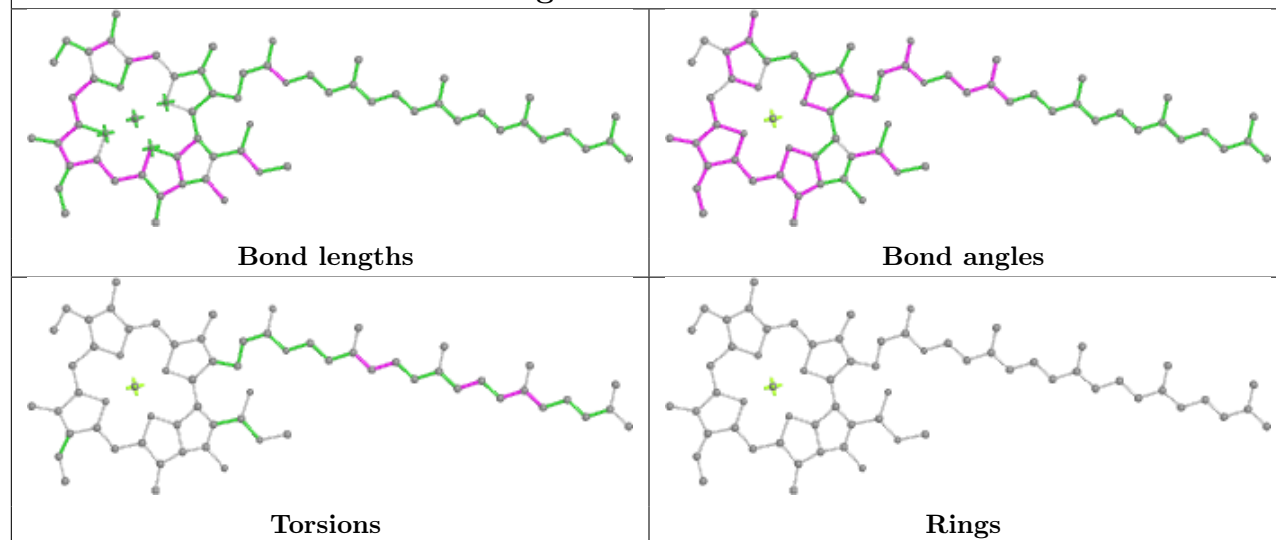
Ligand CLA 3 304



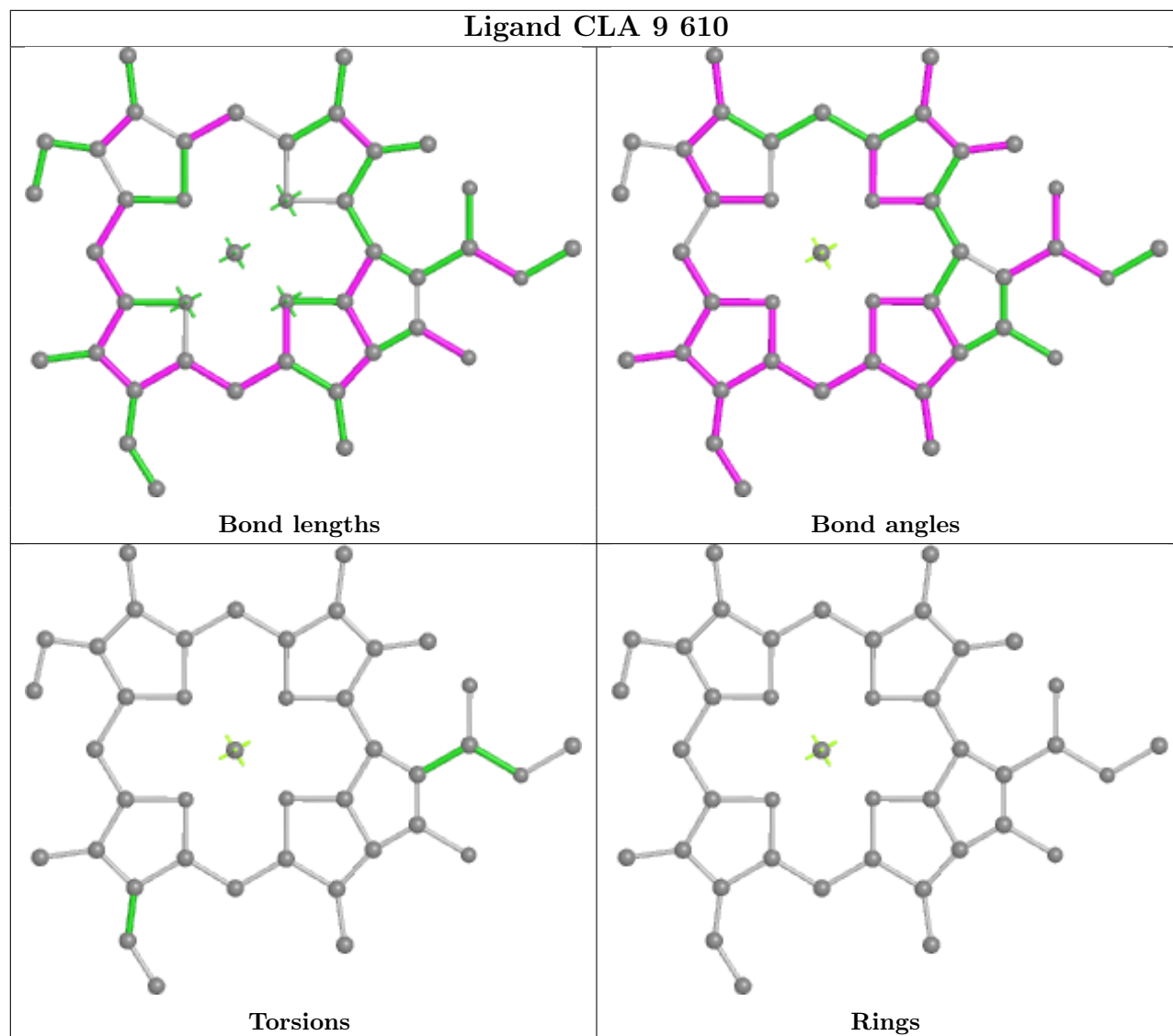
Ligand CHL 8 306



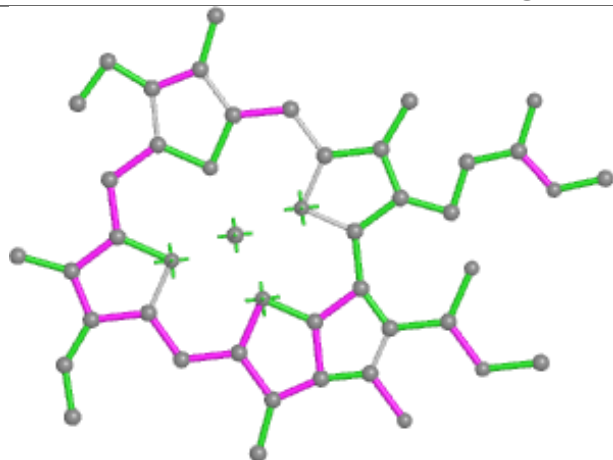
Ligand CLA a 842



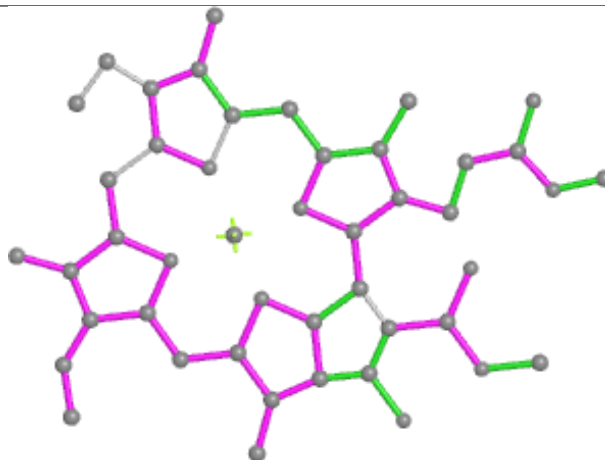
Ligand CLA 9 610



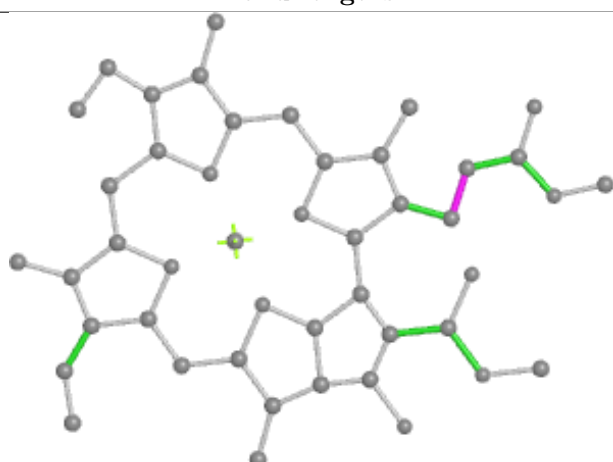
Ligand CLA 8 312



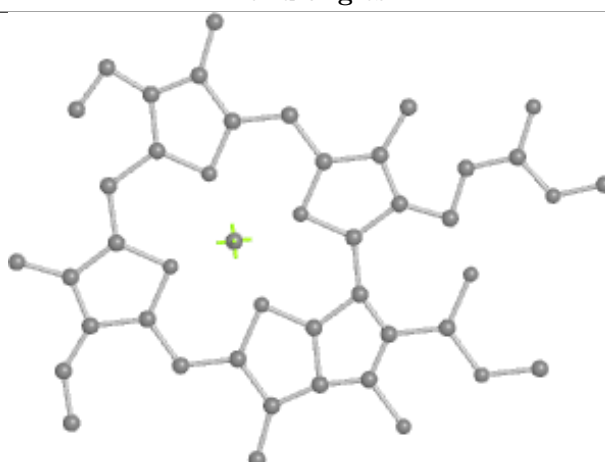
Bond lengths



Bond angles

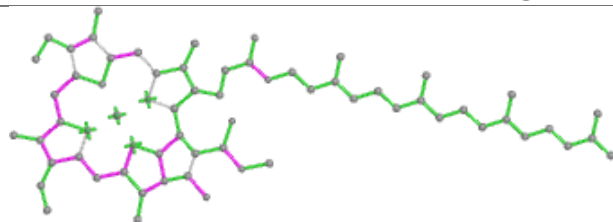


Torsions

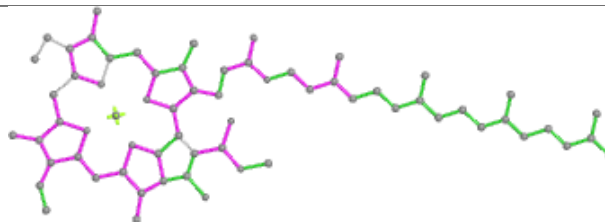


Rings

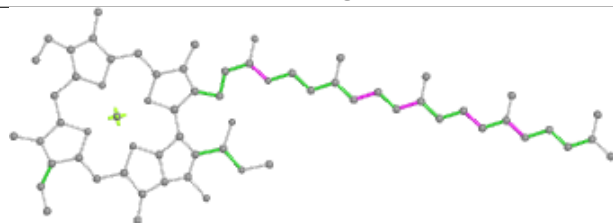
Ligand CLA b 825



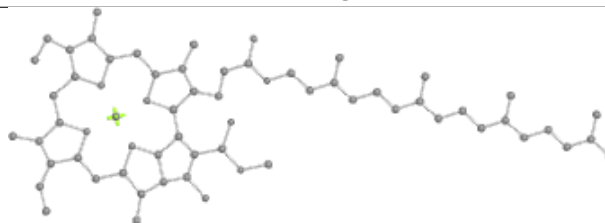
Bond lengths



Bond angles

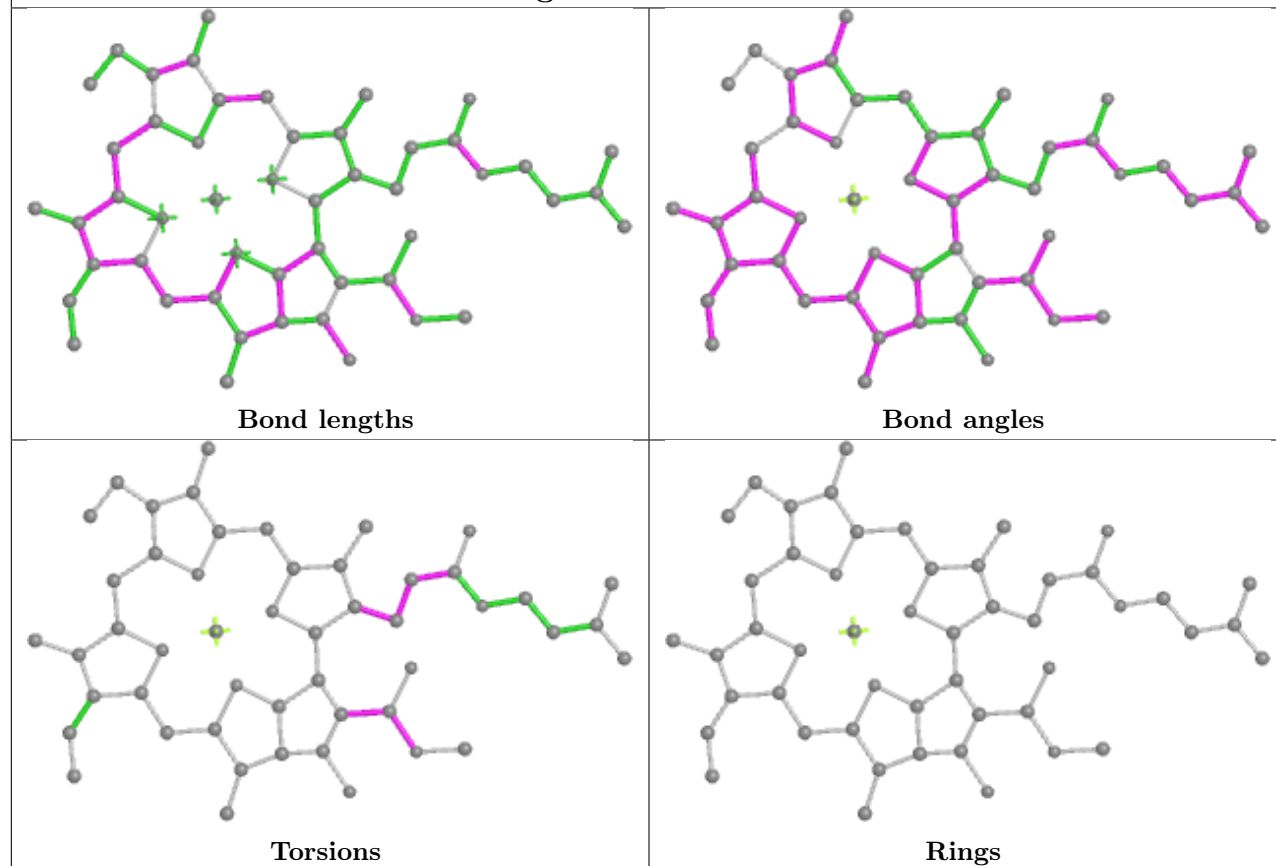


Torsions

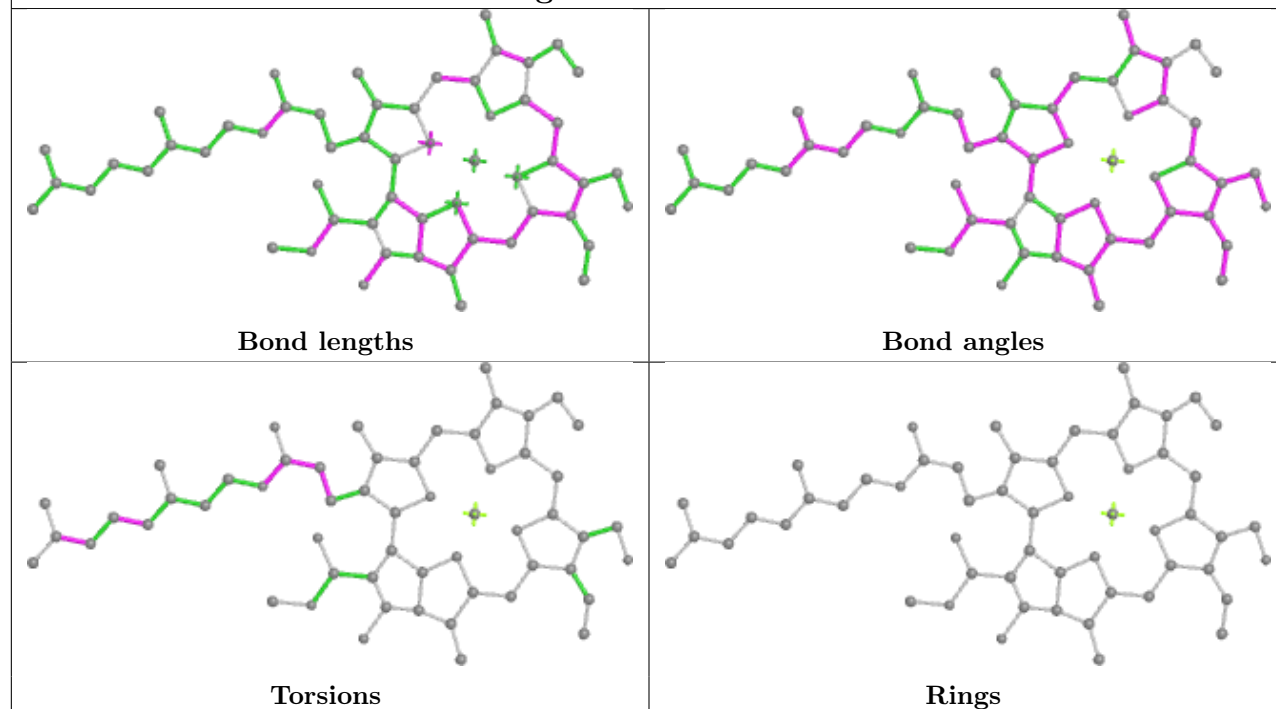


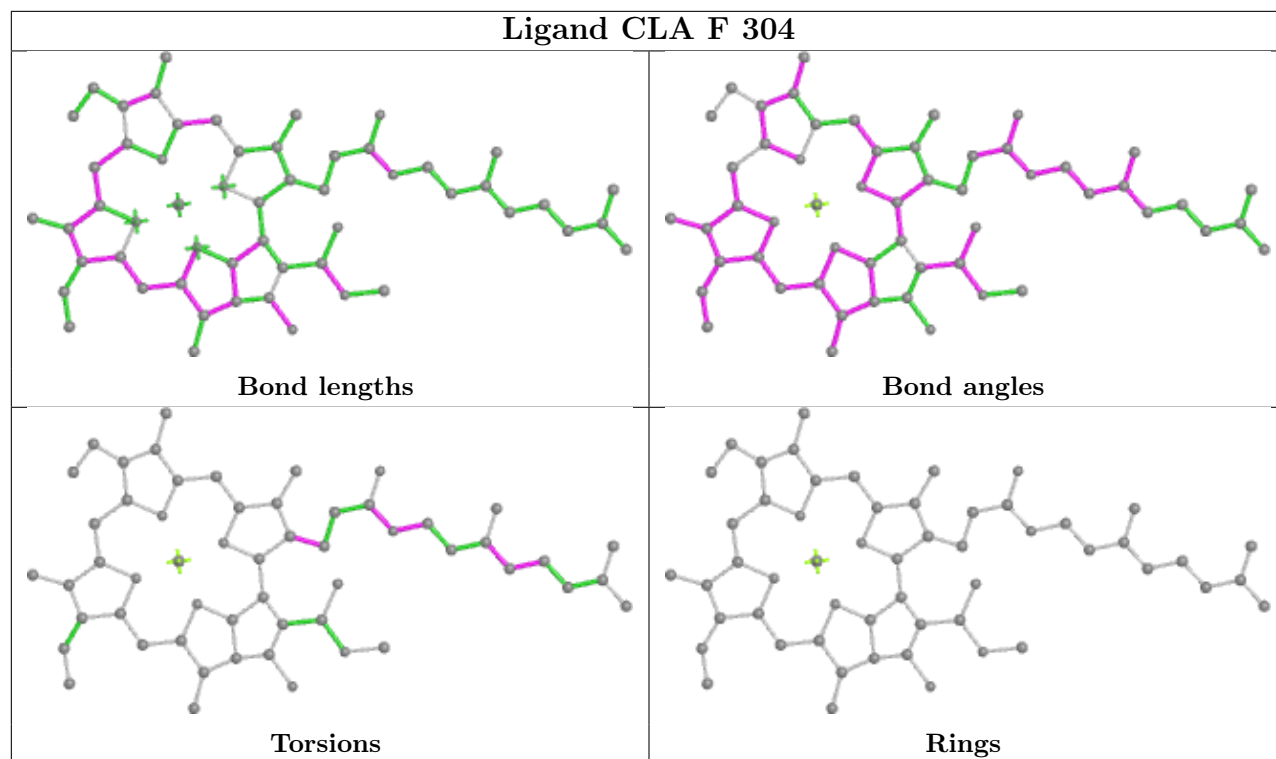
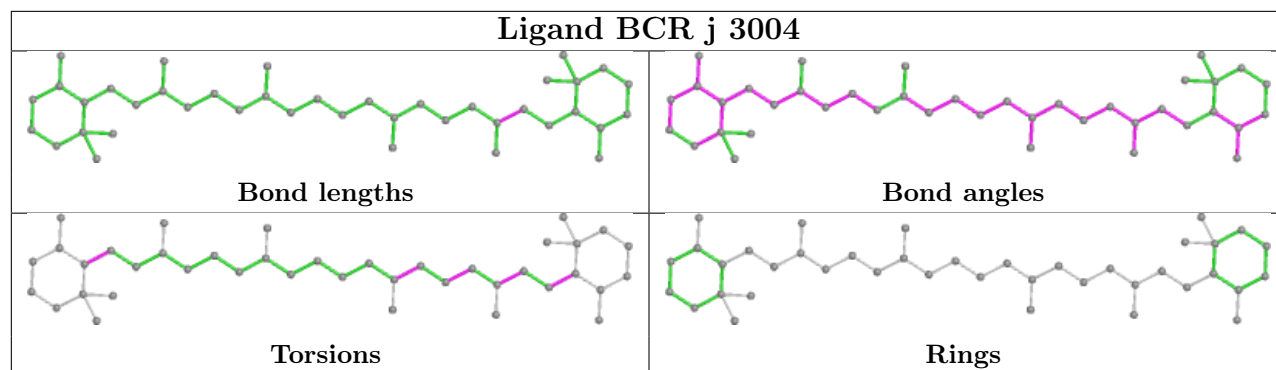
Rings

Ligand CLA a 816

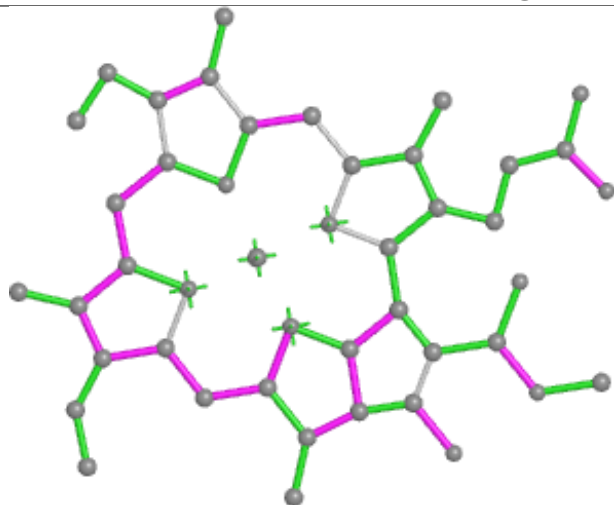


Ligand CHL 9 605

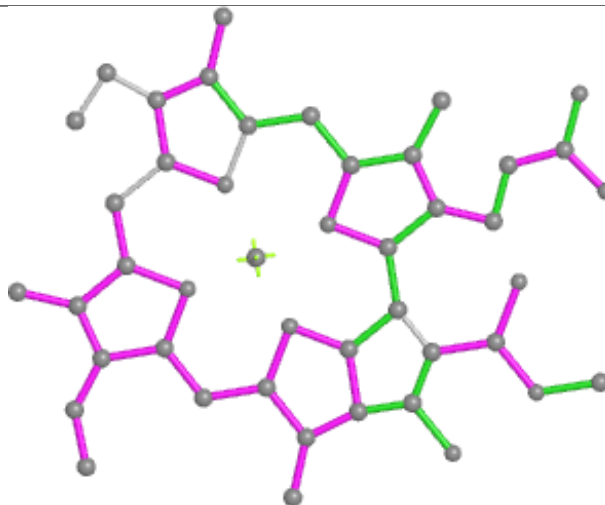




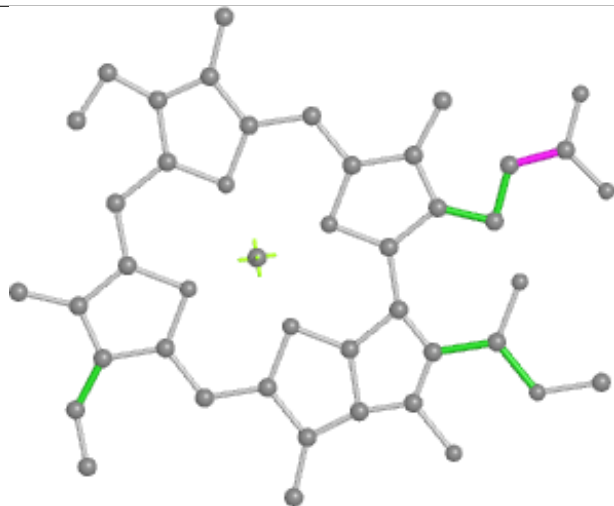
Ligand CLA F 303



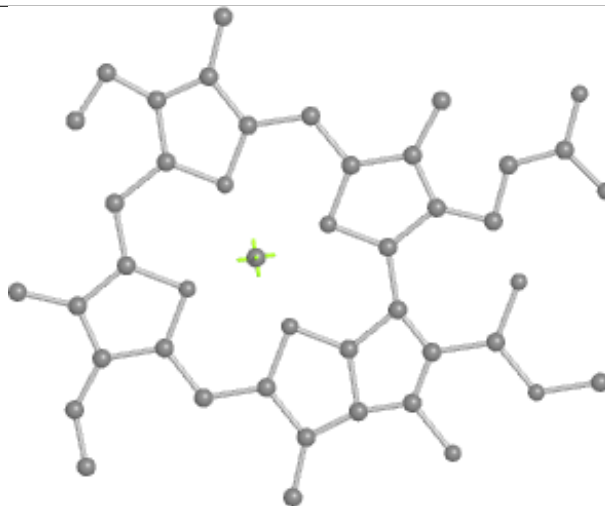
Bond lengths



Bond angles

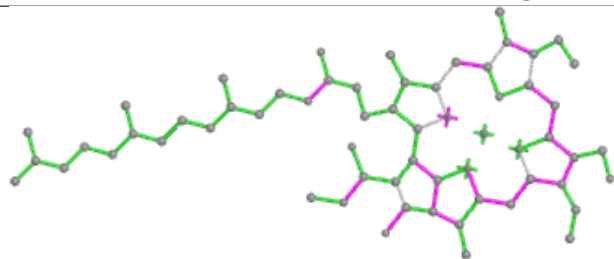


Torsions

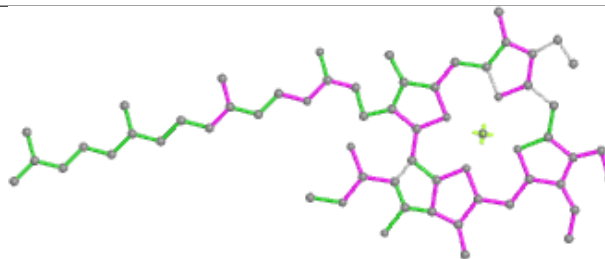


Rings

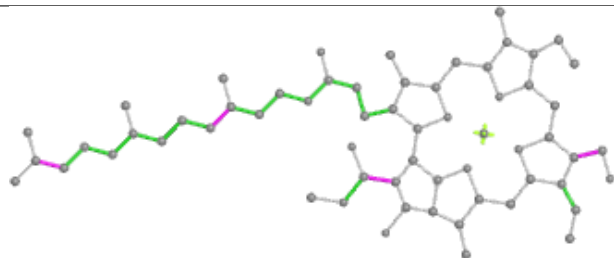
Ligand CHL 1 302



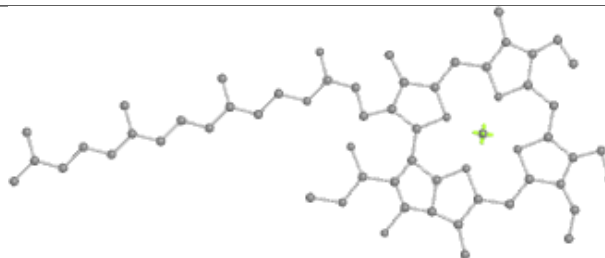
Bond lengths



Bond angles

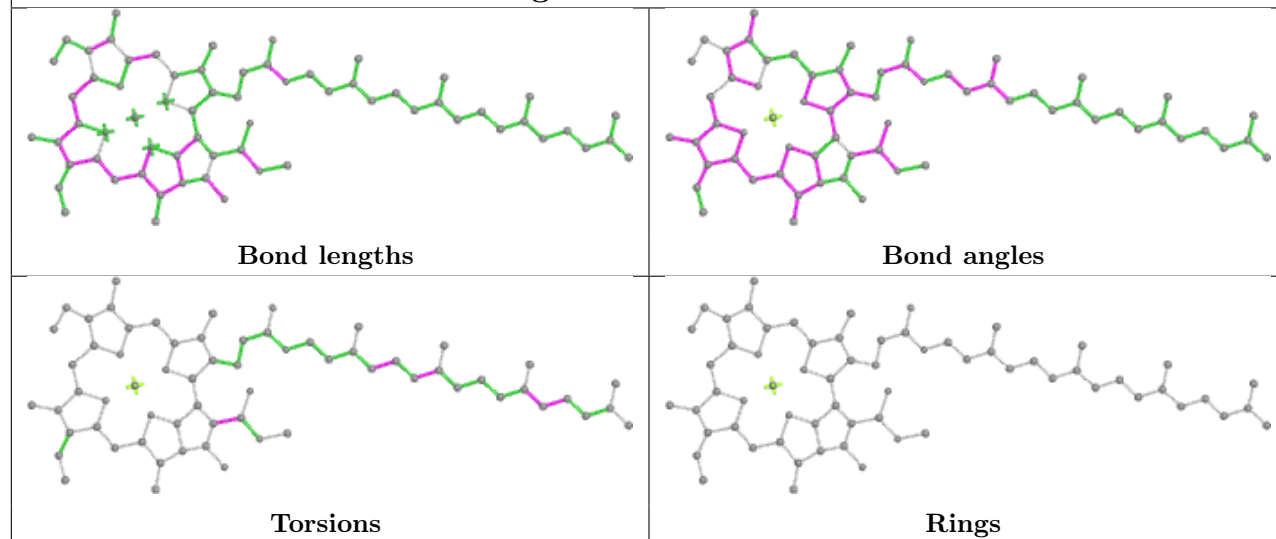


Torsions

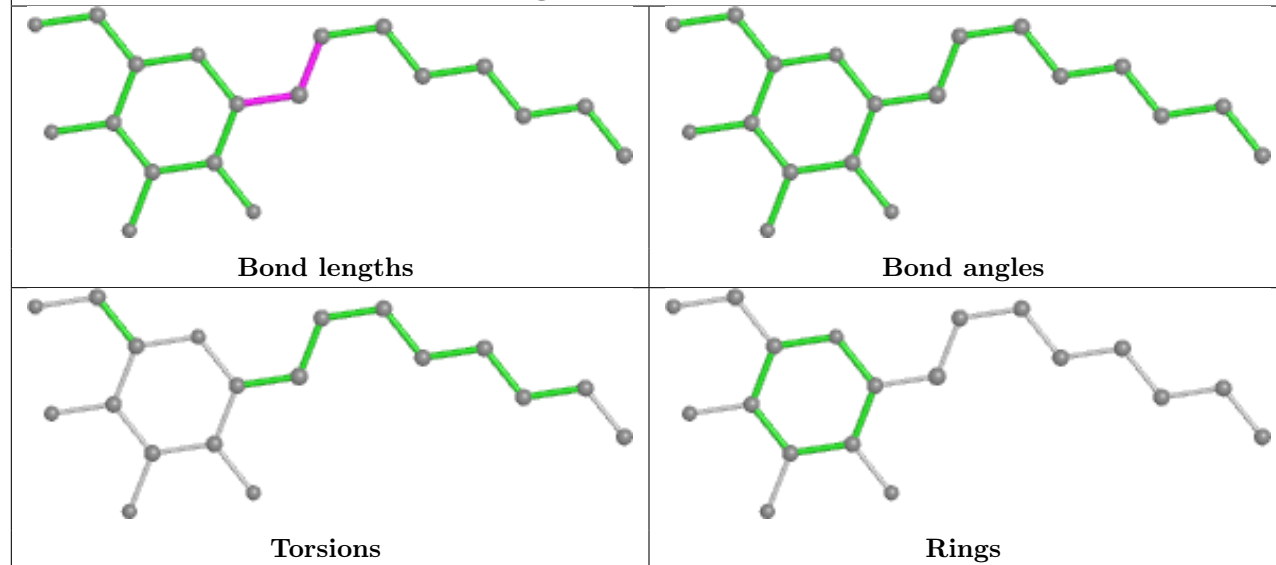


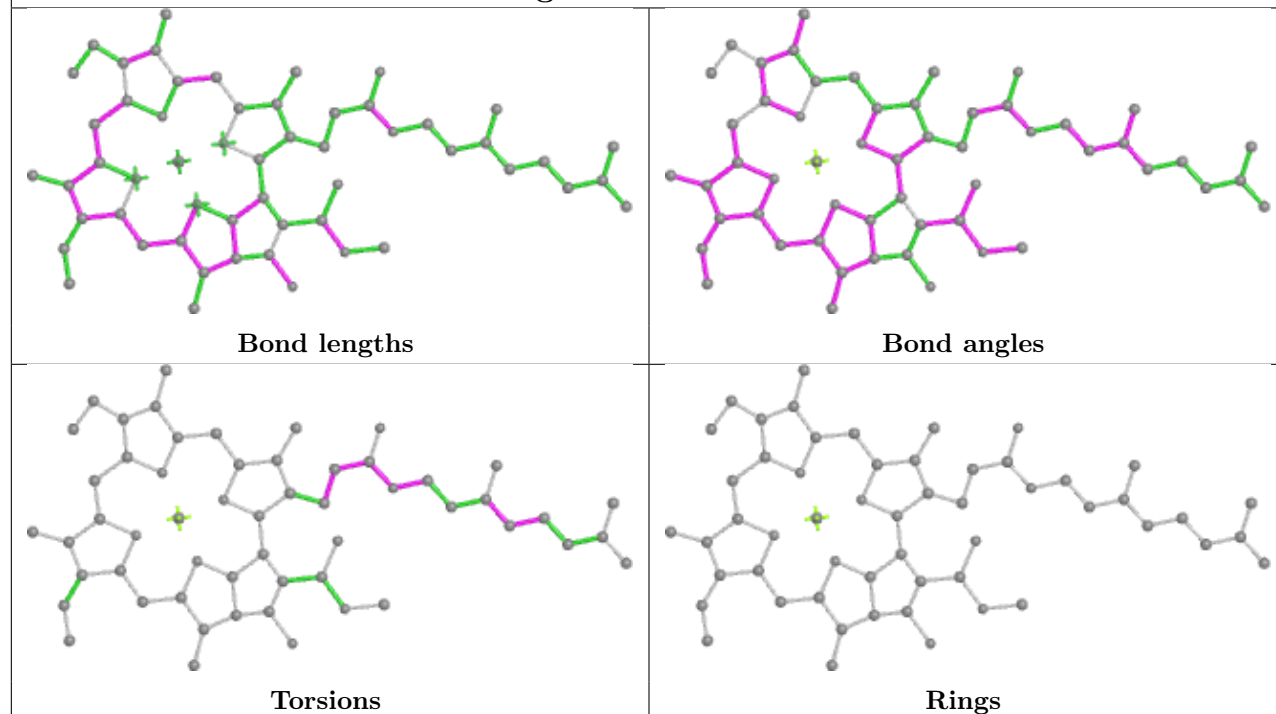
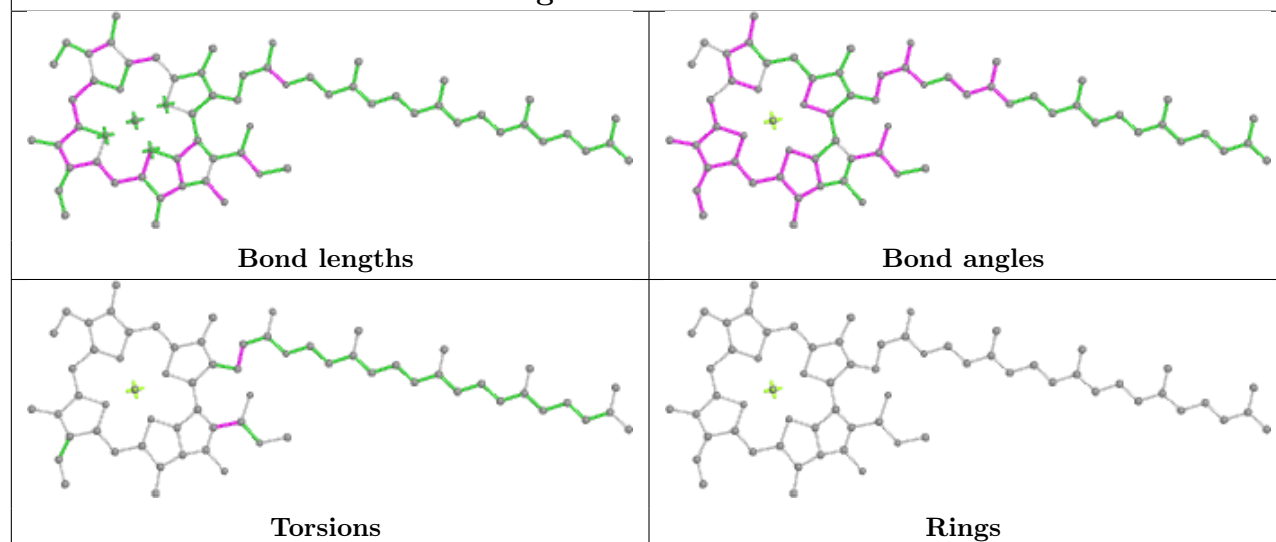
Rings

Ligand CLA A 827

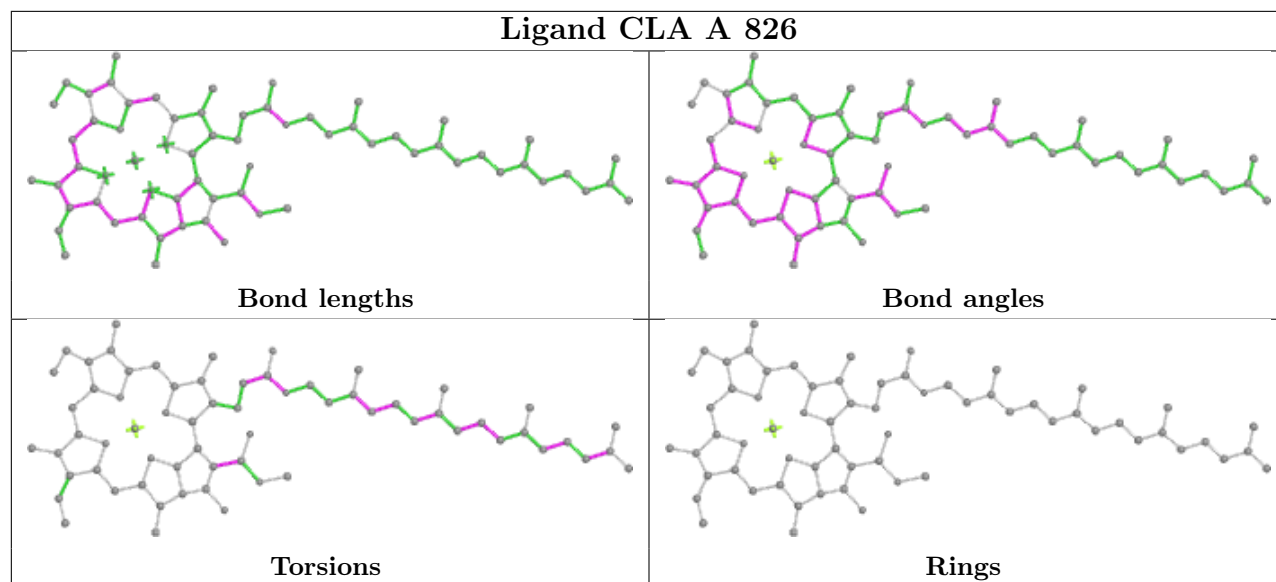


Ligand HTG a 857

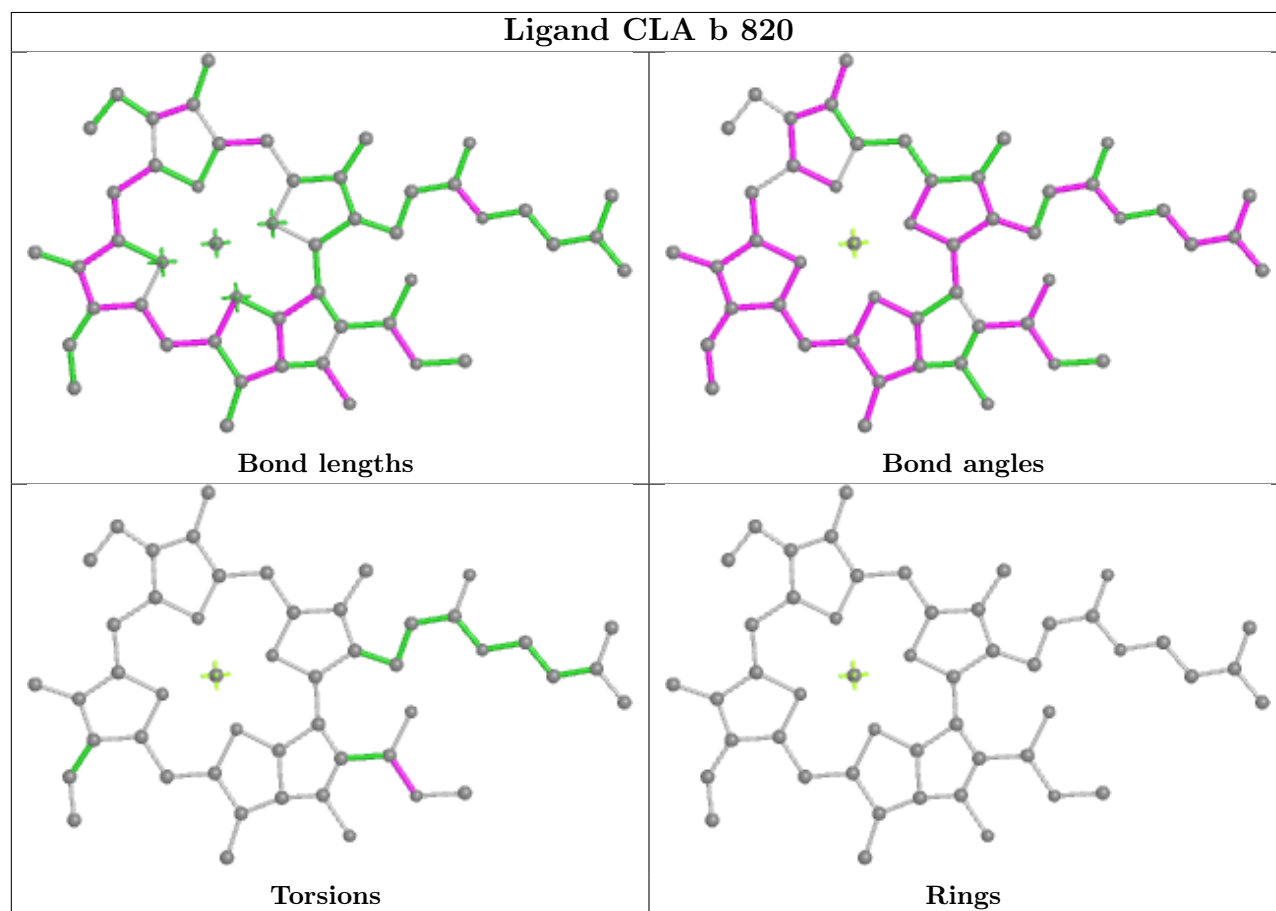


Ligand CLA 8 310**Ligand CLA a 810**

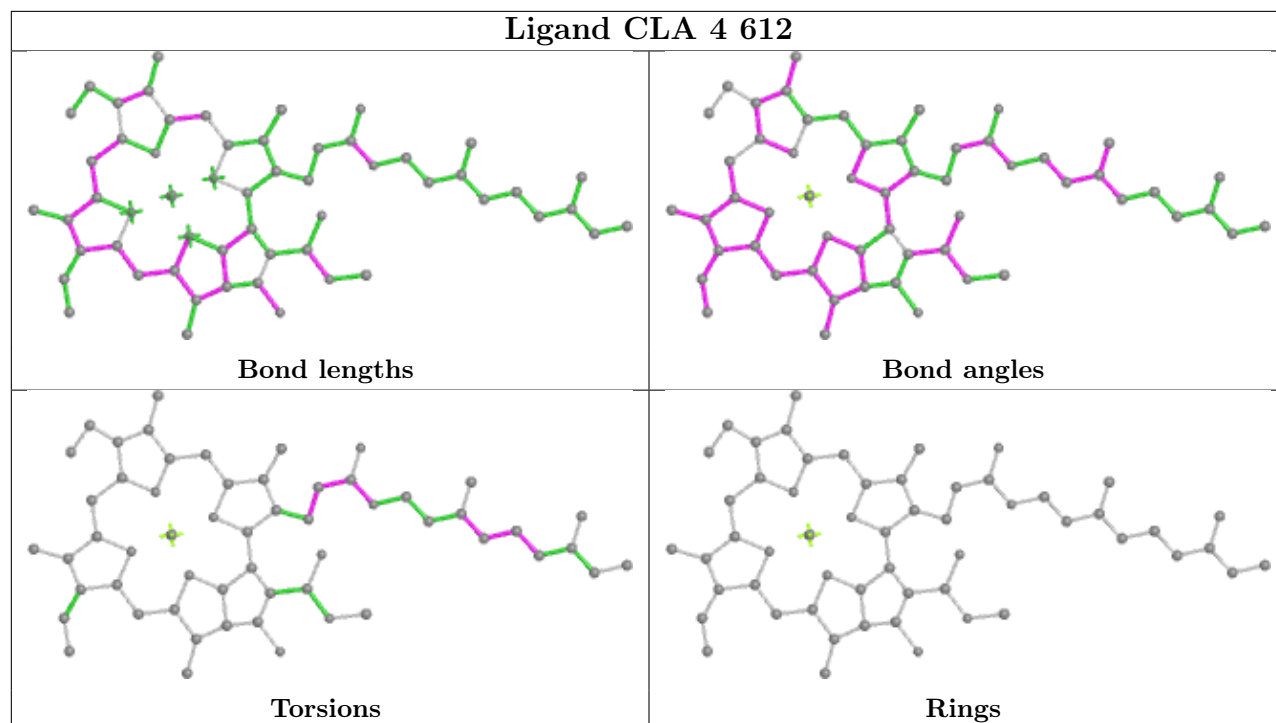
Ligand CLA A 826



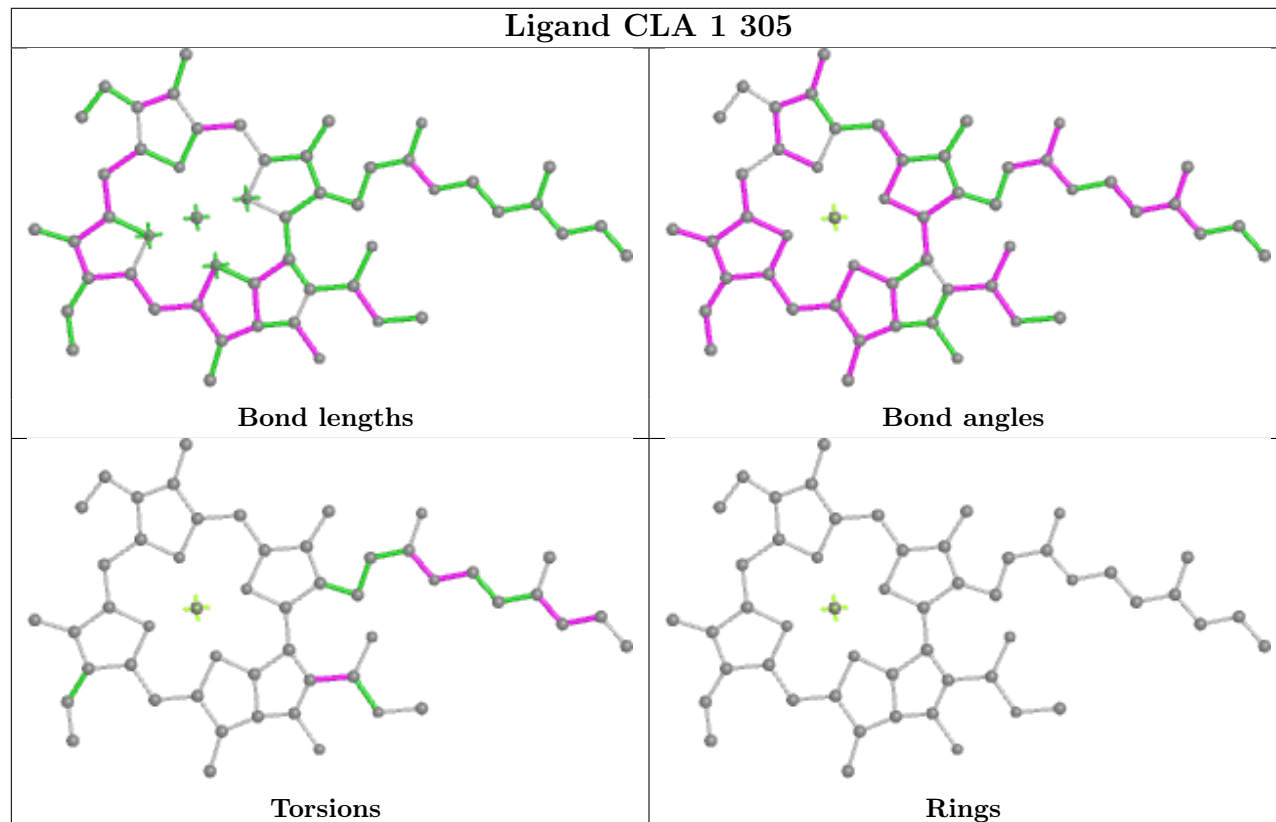
Ligand CLA b 820

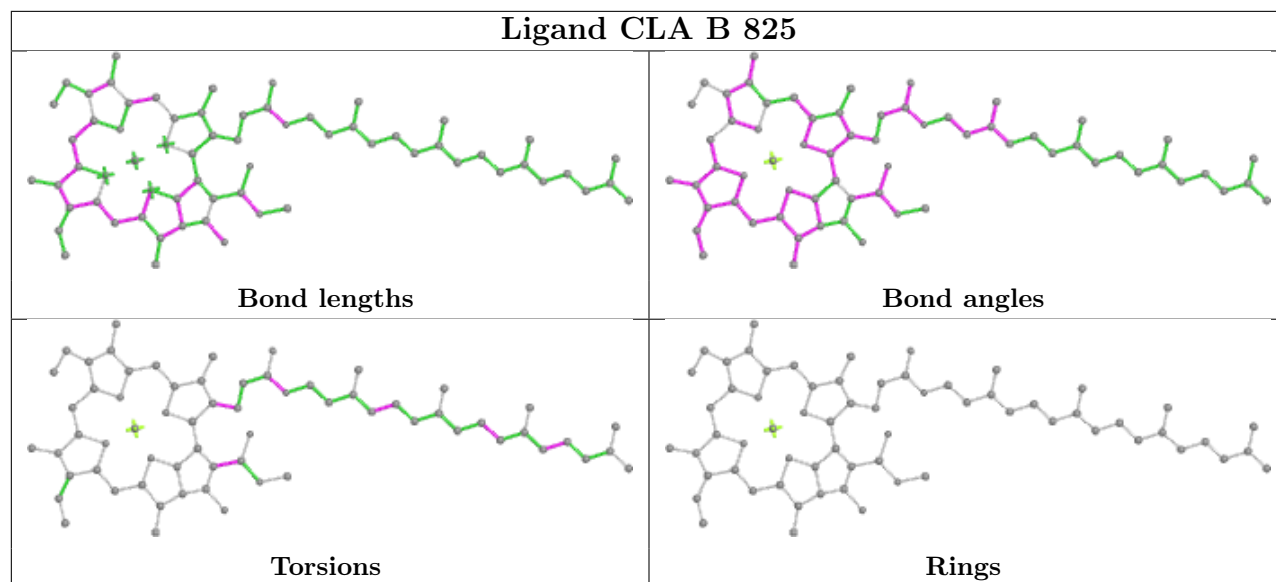
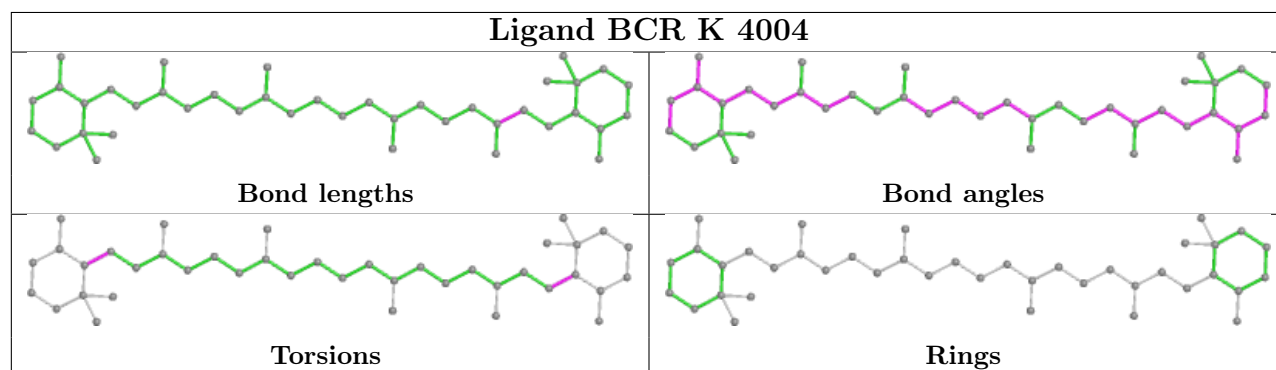
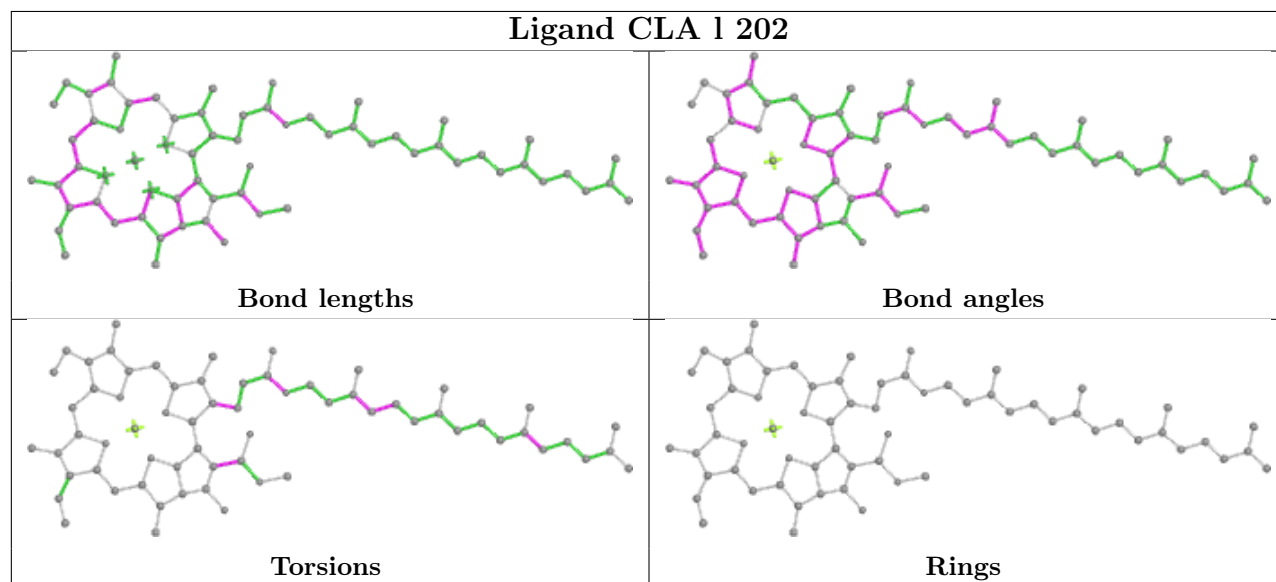


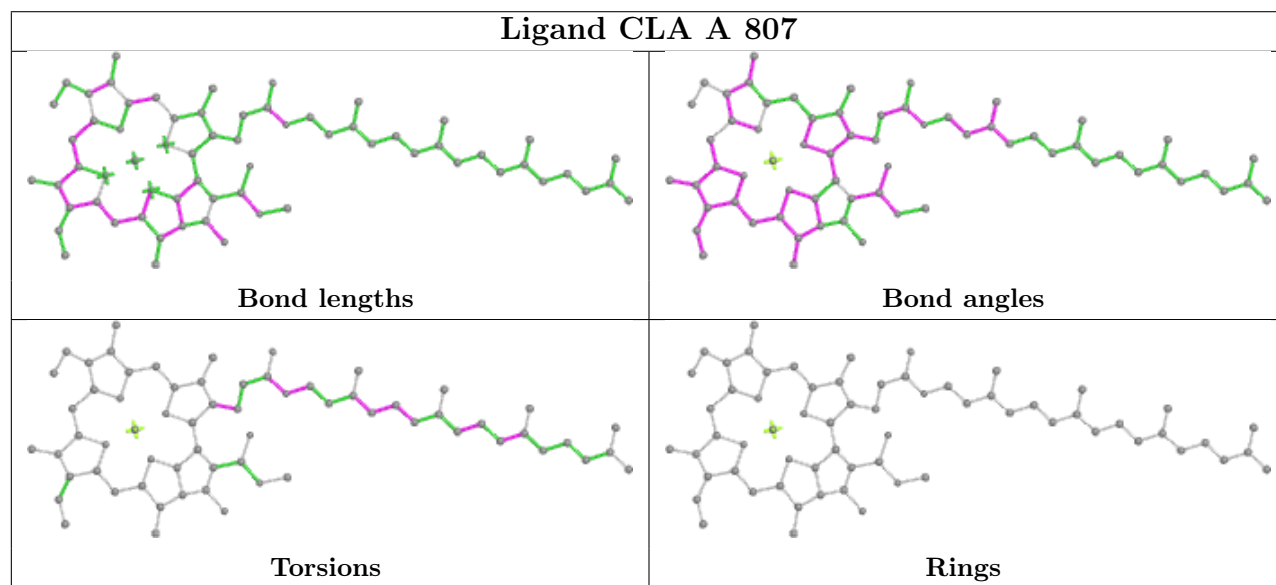
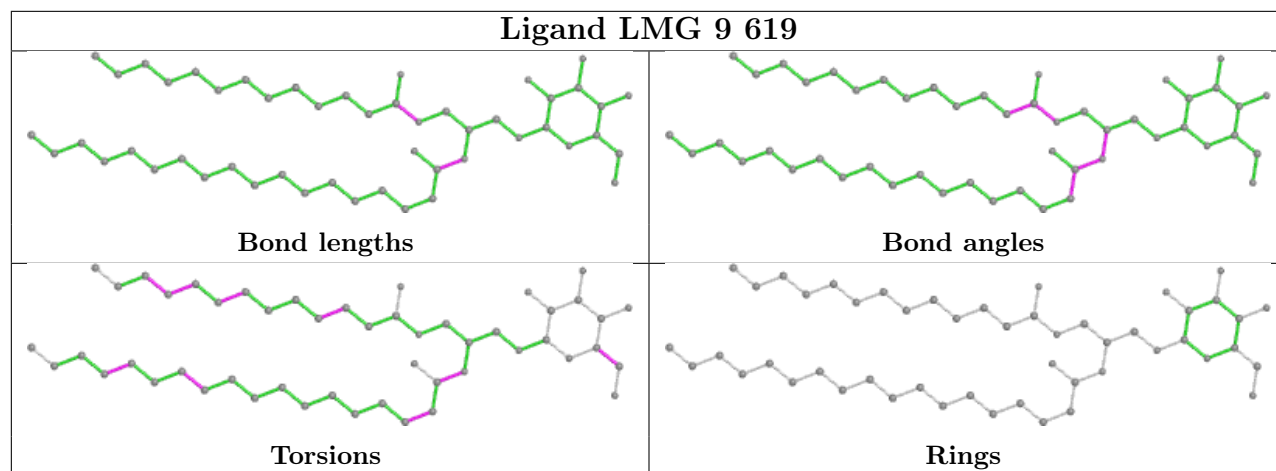
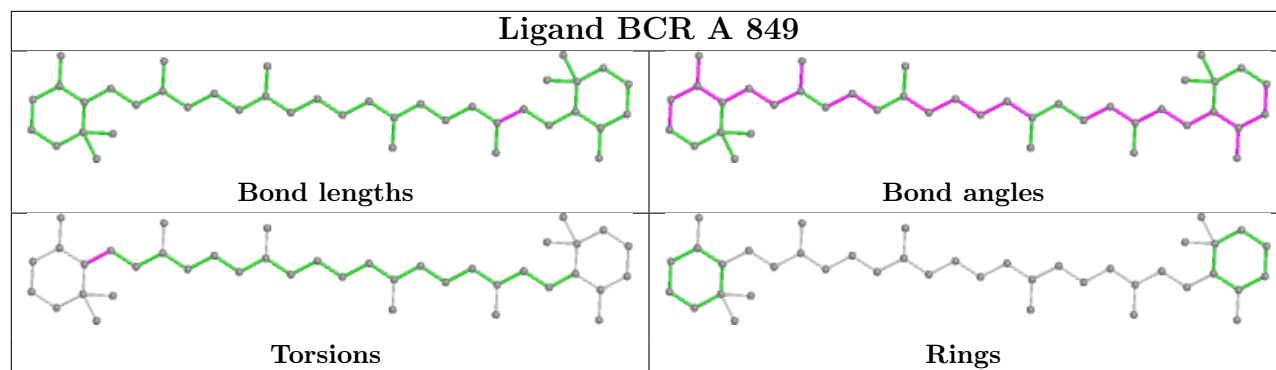
Ligand CLA 4 612

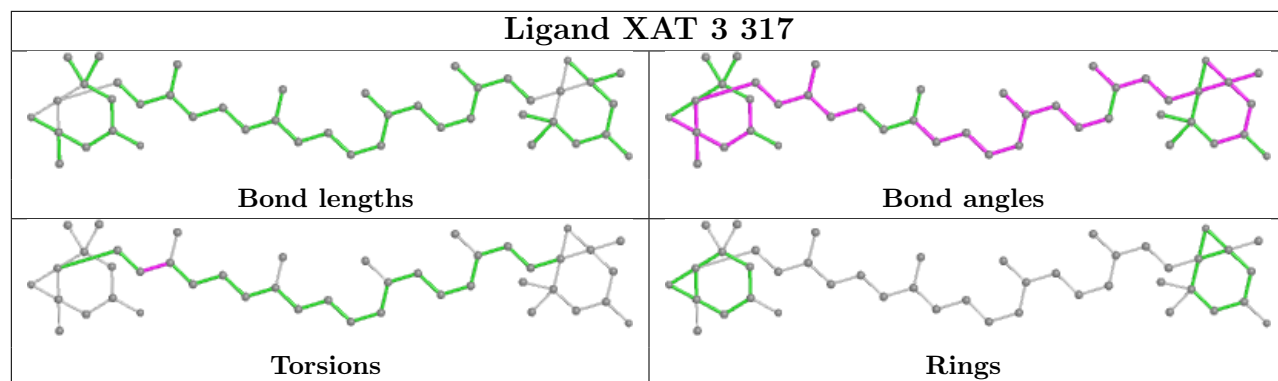
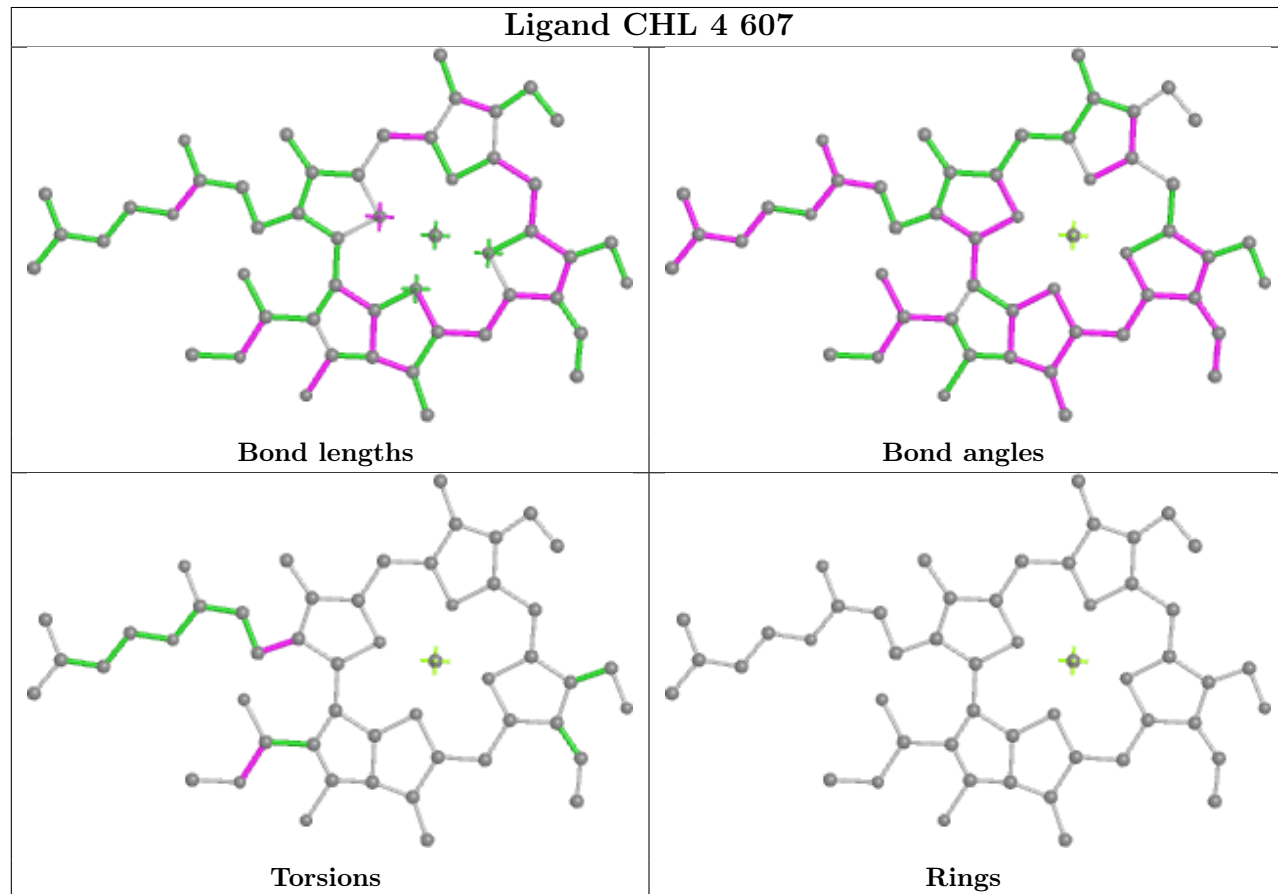


Ligand CLA 1 305

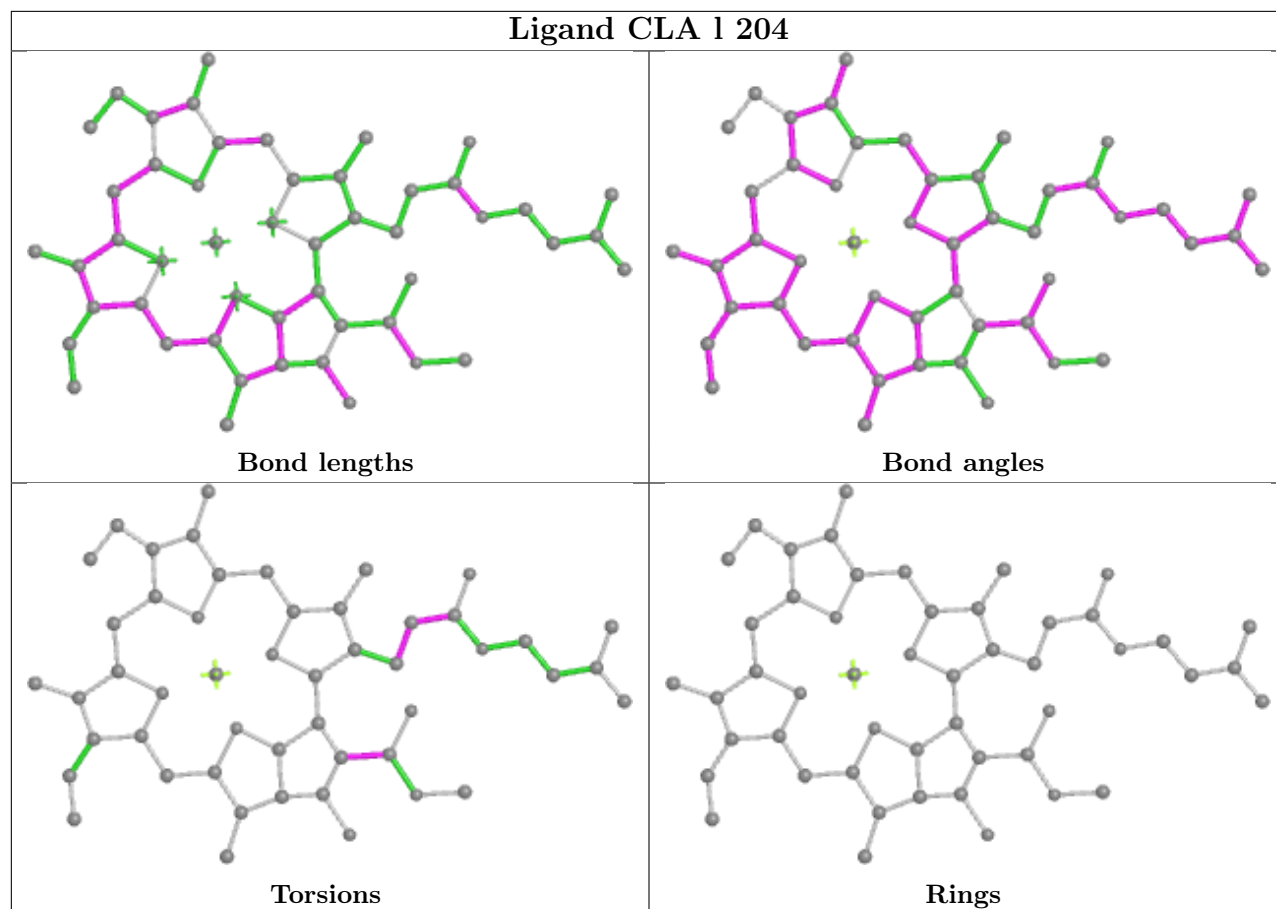


Ligand CLA B 825**Ligand BCR K 4004****Ligand CLA I 202**

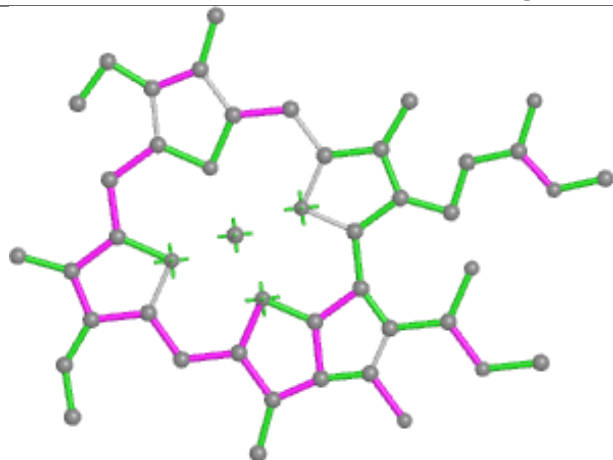


Ligand XAT 3 317**Ligand CHL 4 607**

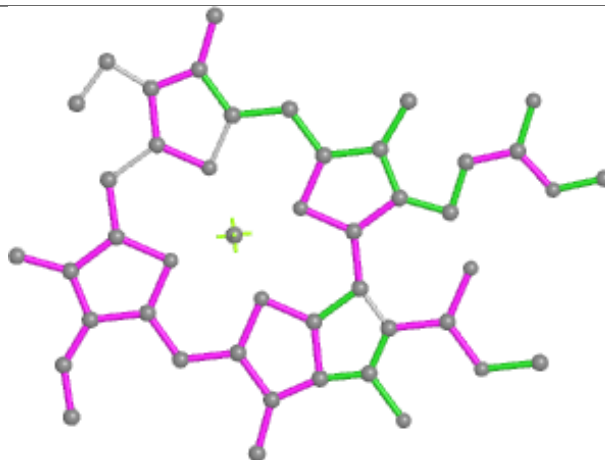
Ligand CLA 1 204



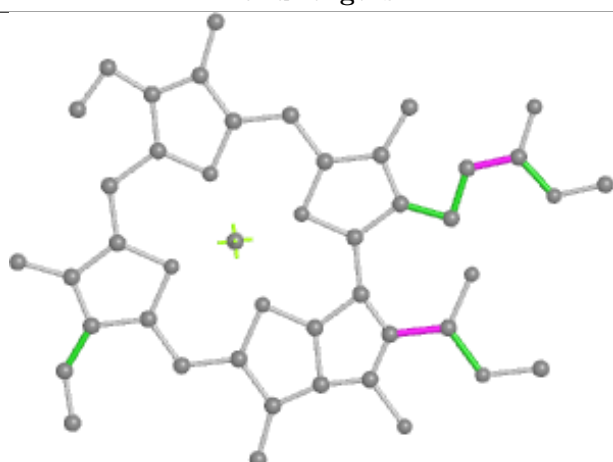
Ligand CLA 9 603



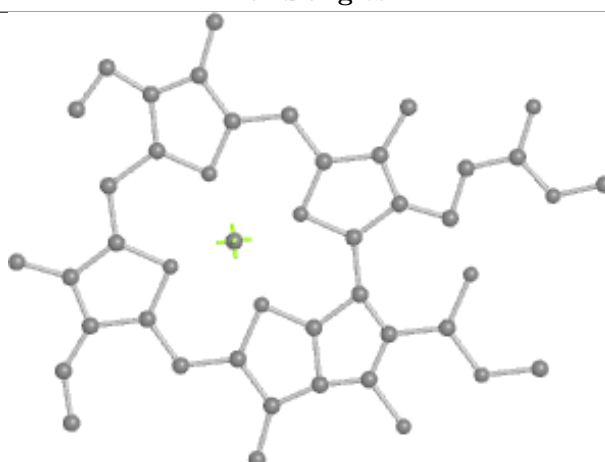
Bond lengths



Bond angles

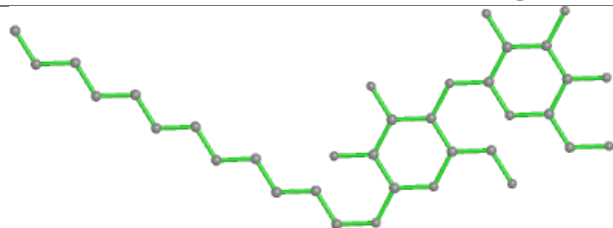


Torsions

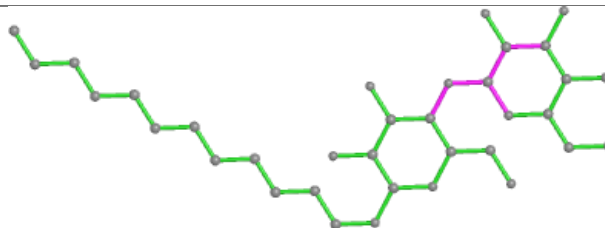


Rings

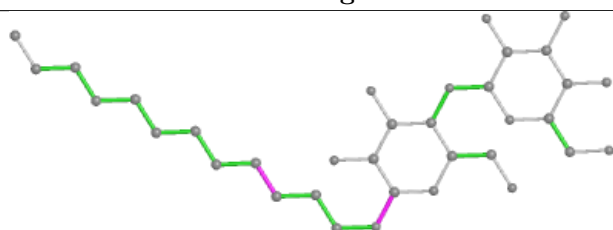
Ligand LMT B 849



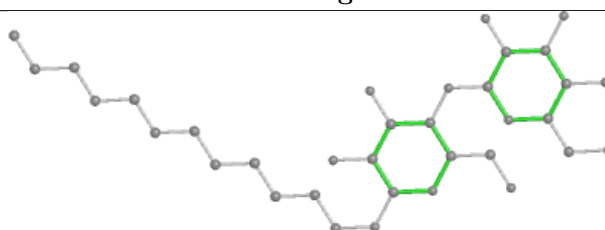
Bond lengths



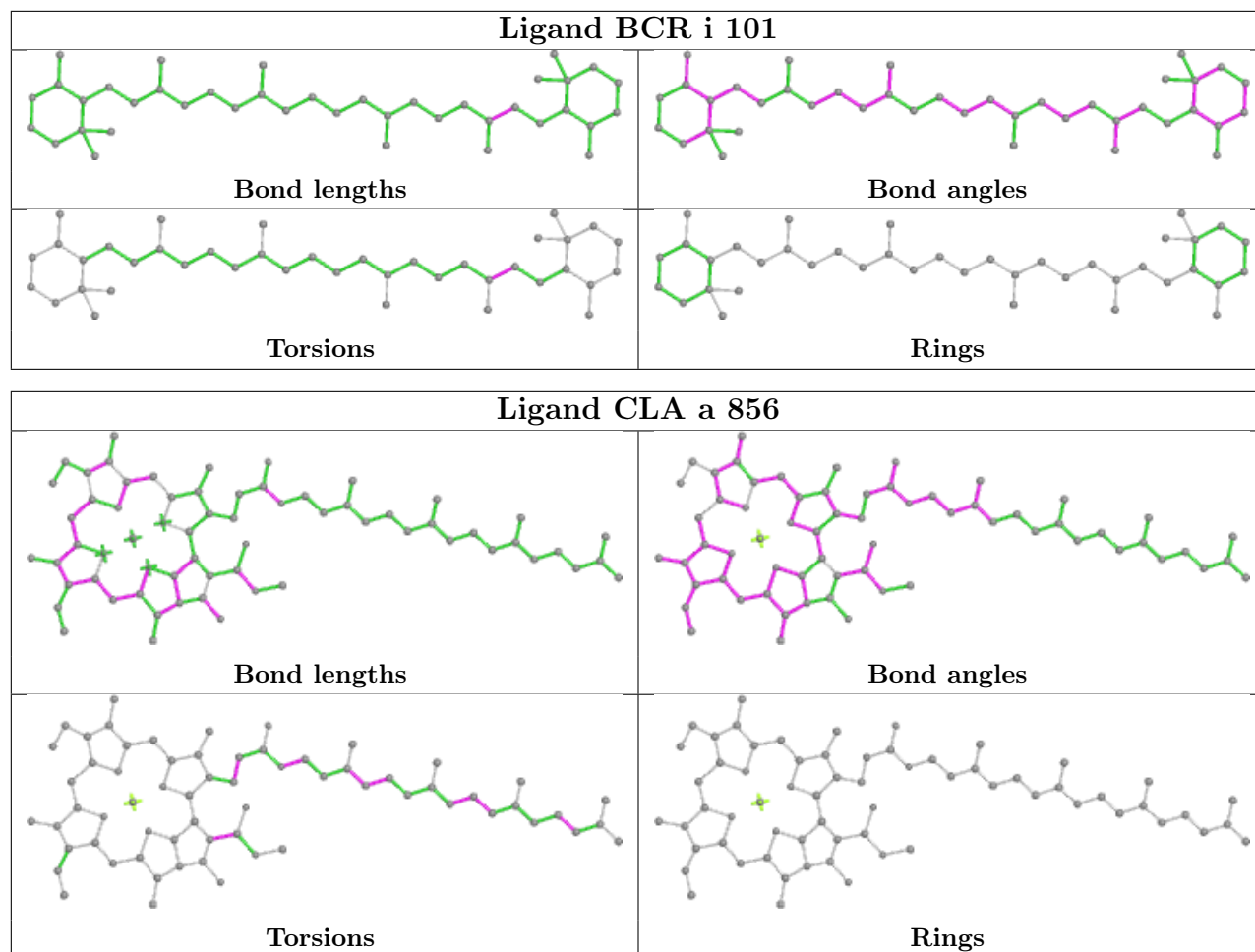
Bond angles



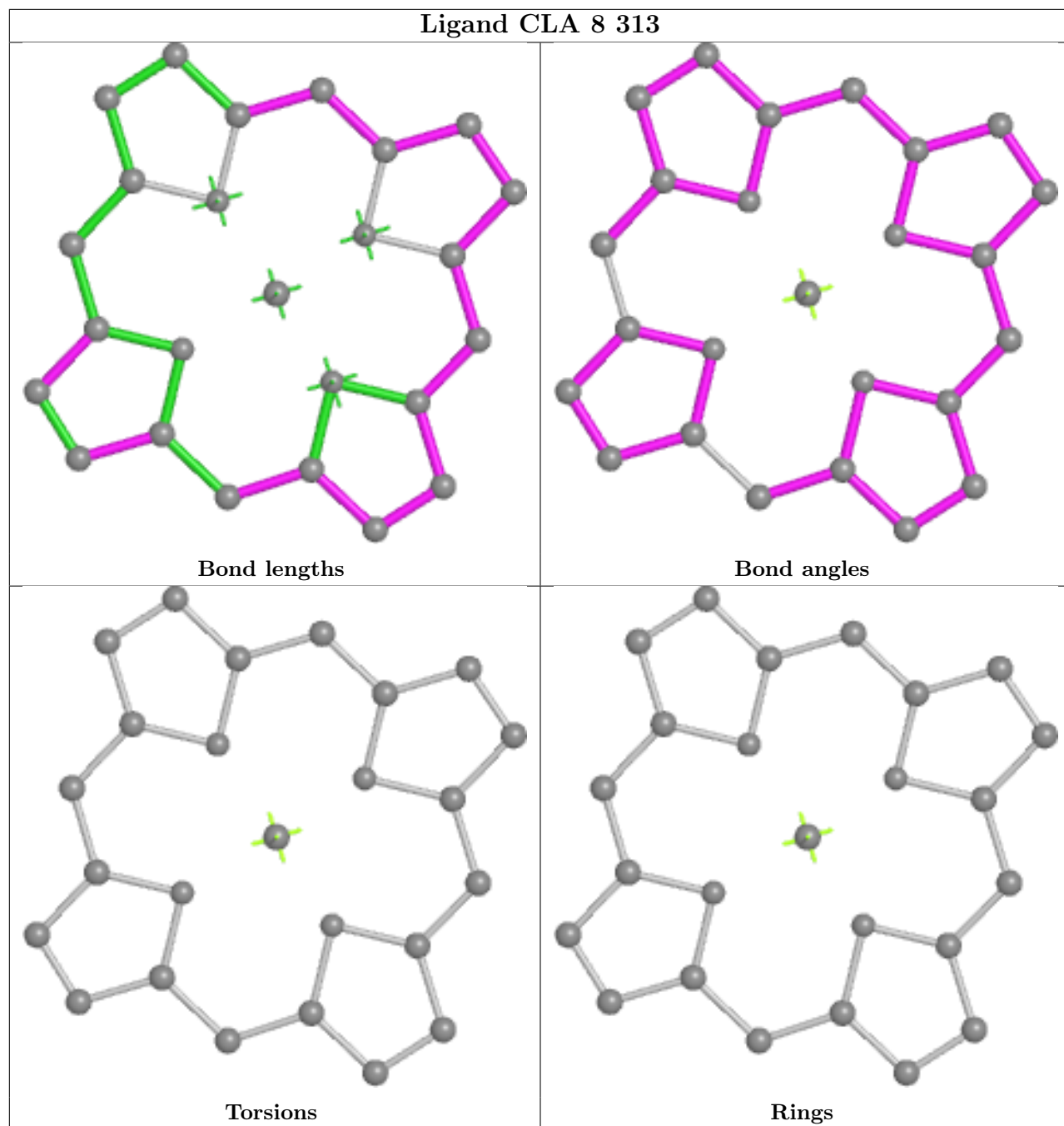
Torsions



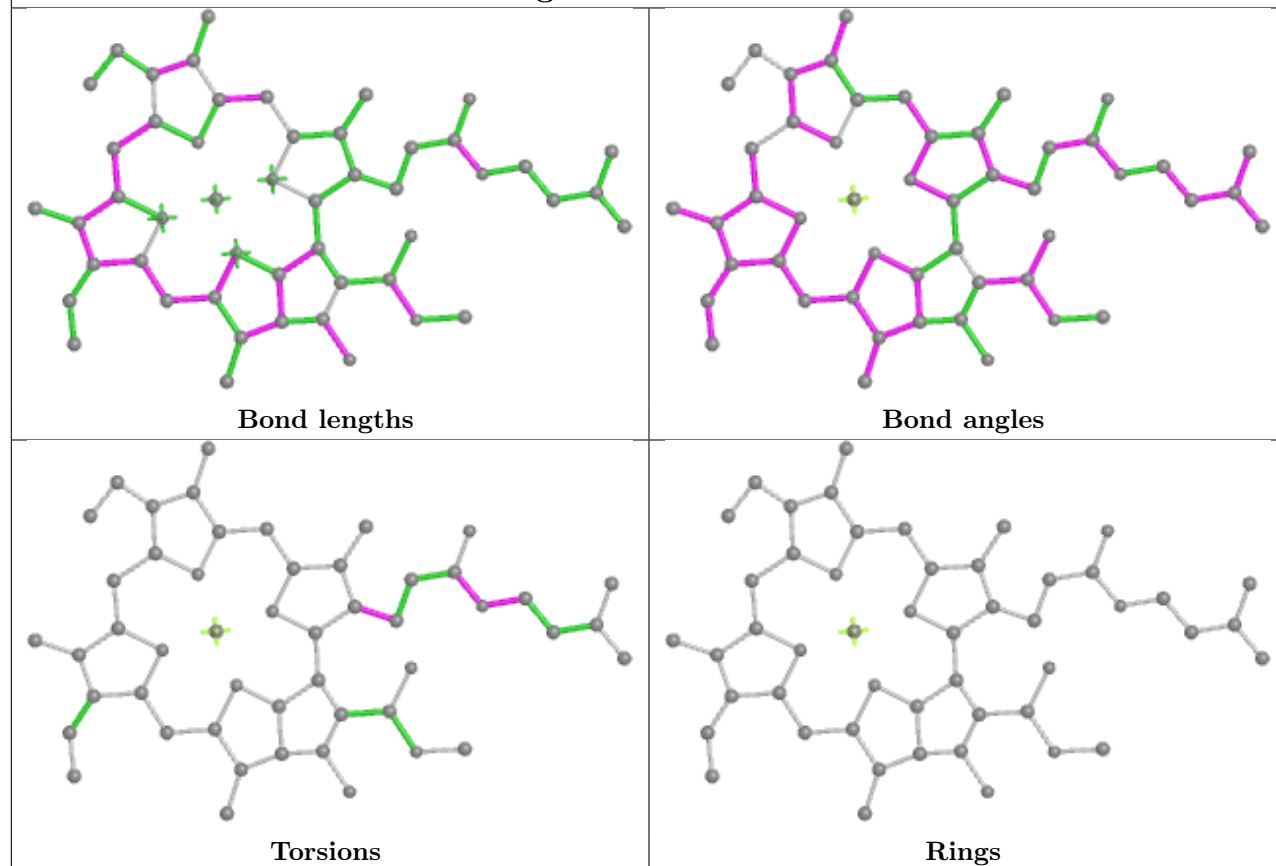
Rings



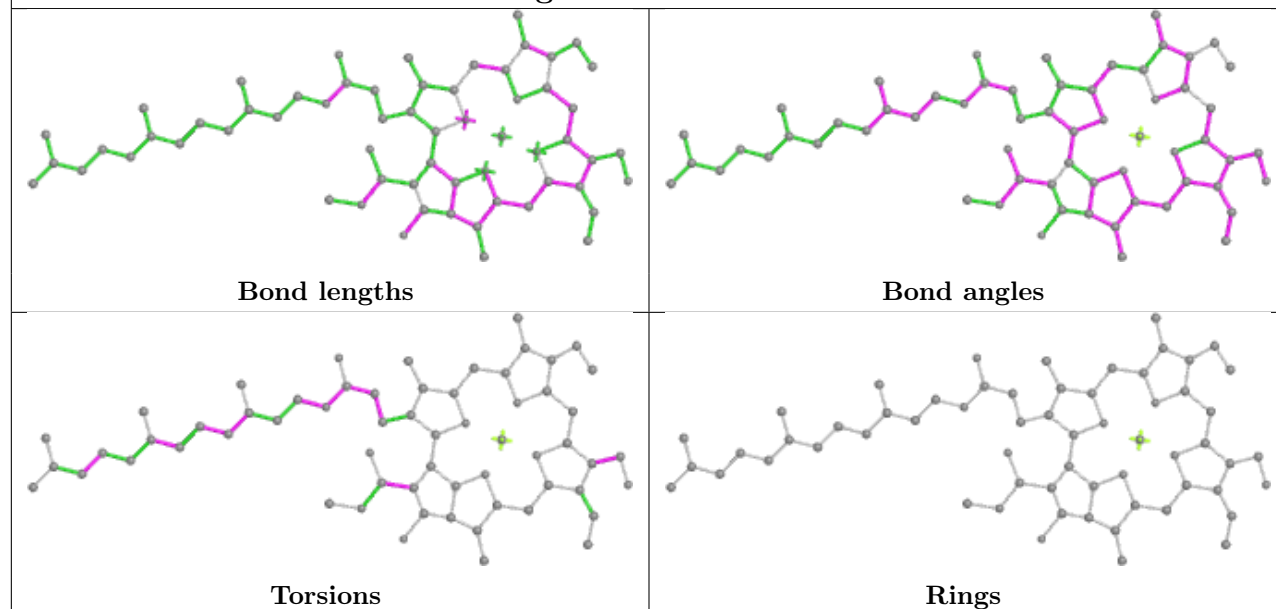
Ligand CLA 8 313



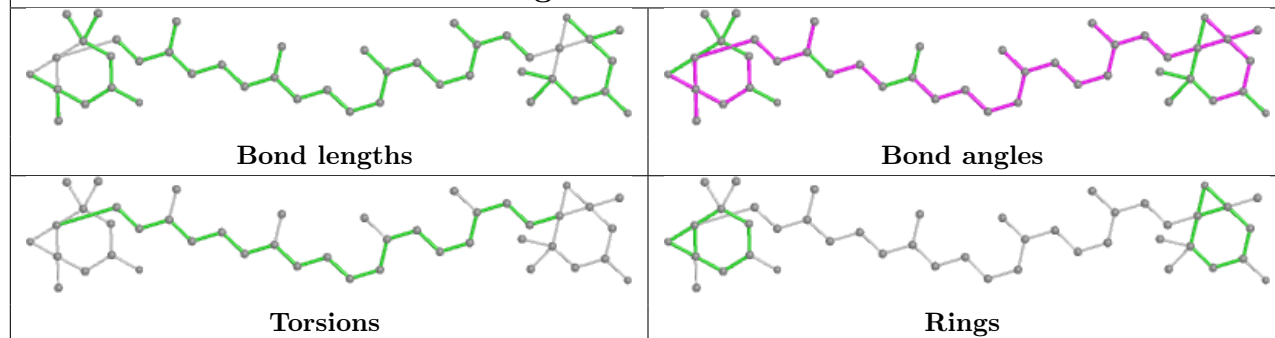
Ligand CLA 8 307



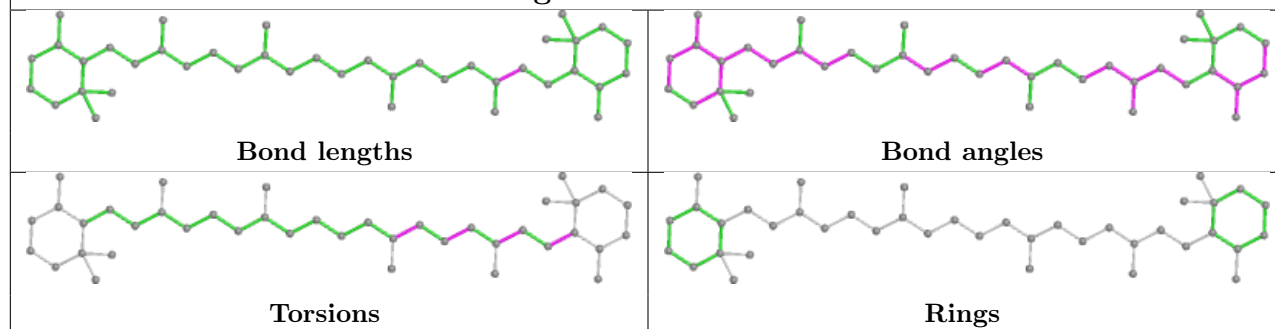
Ligand CHL 6 303



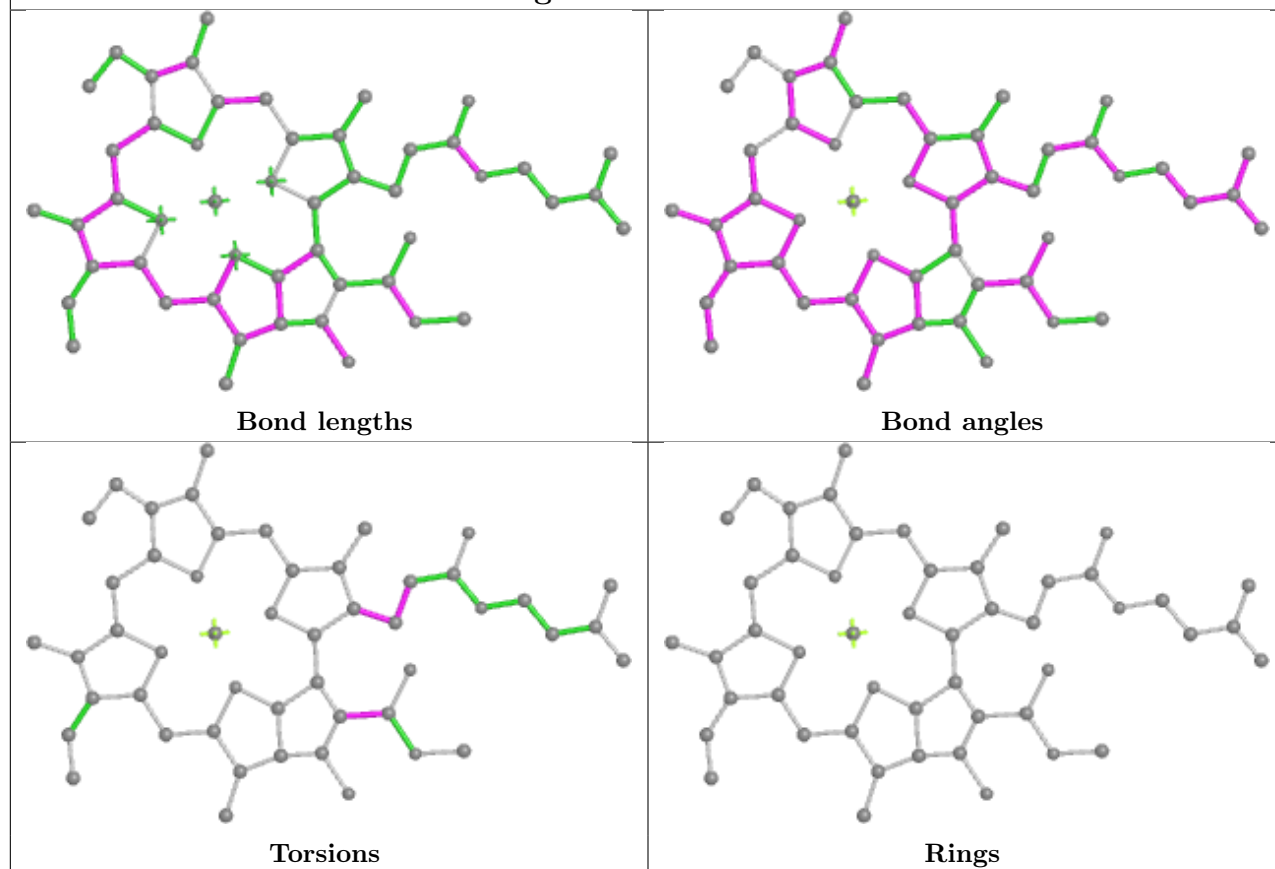
Ligand XAT 8 315

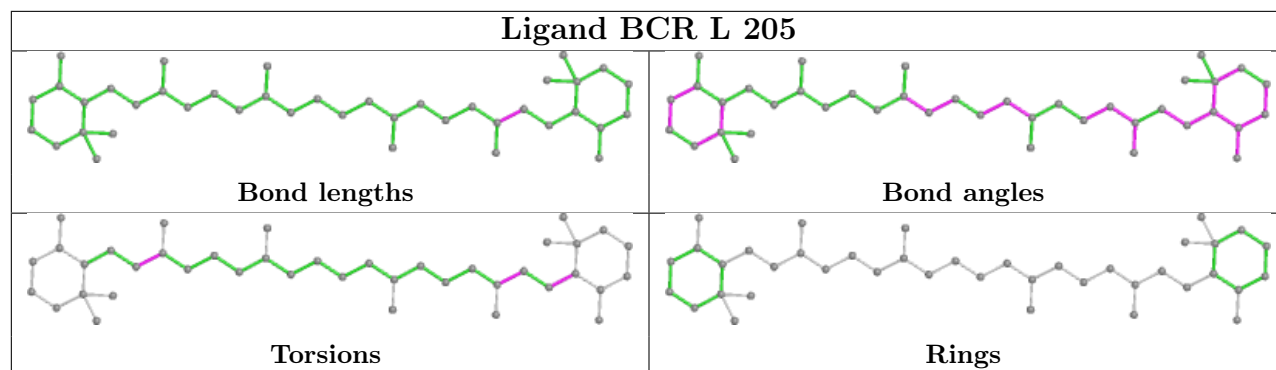
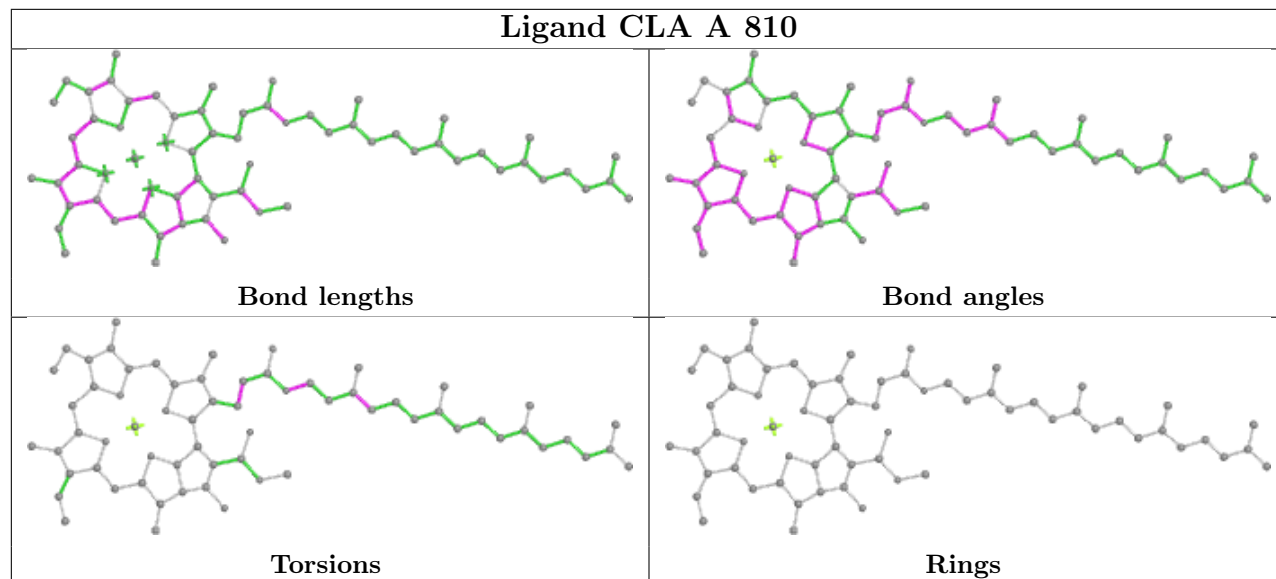


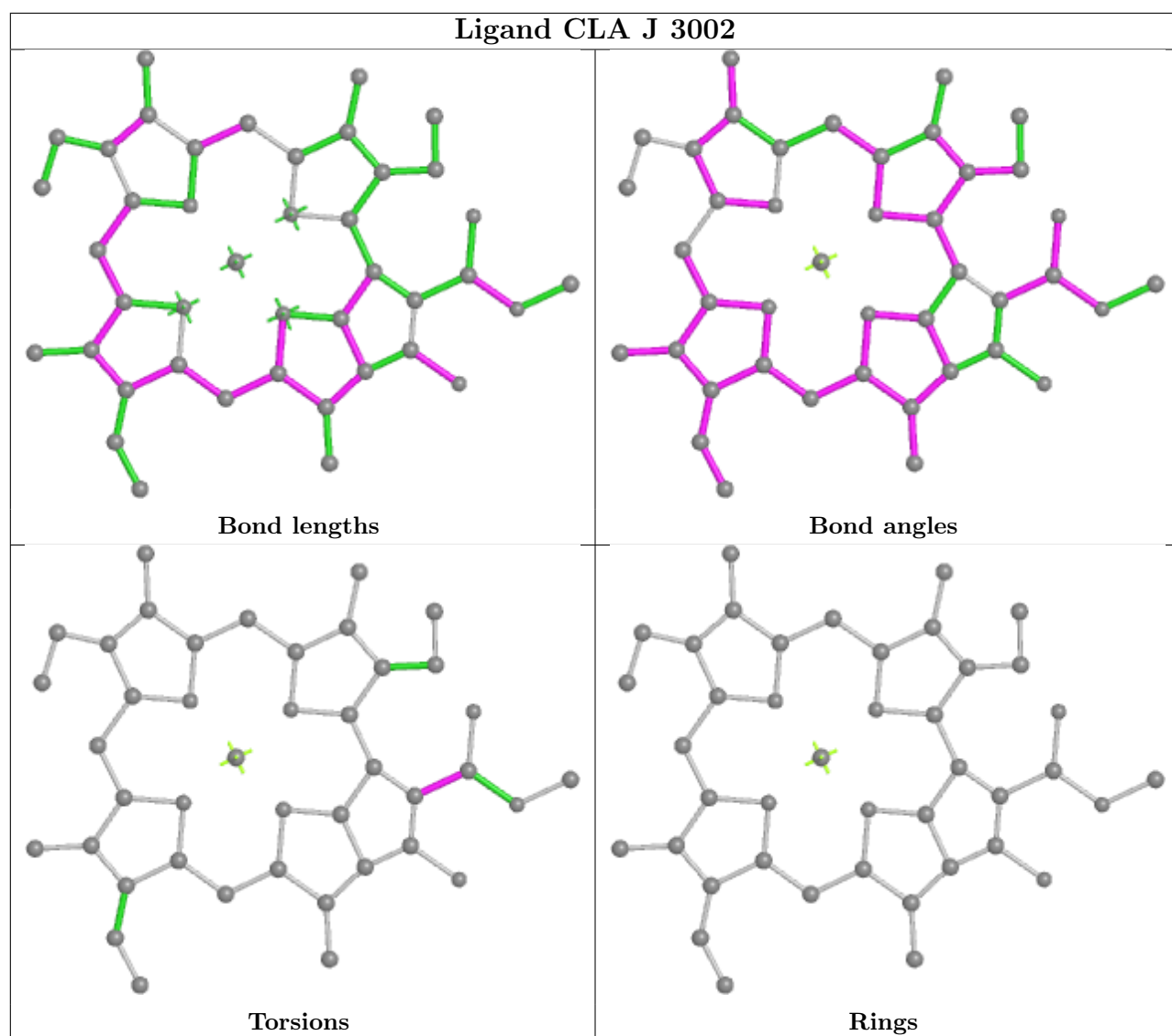
Ligand BCR a 853



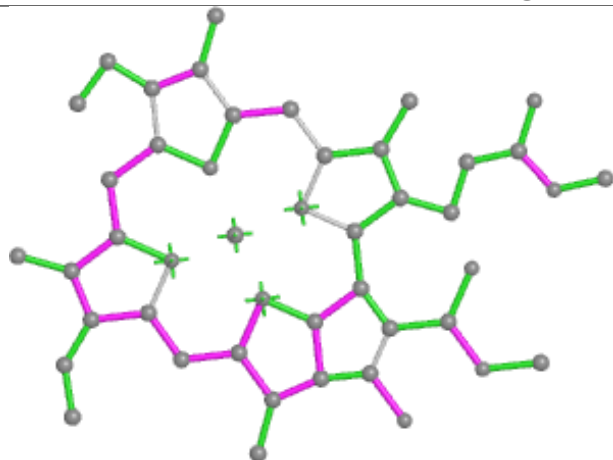
Ligand CLA b 830



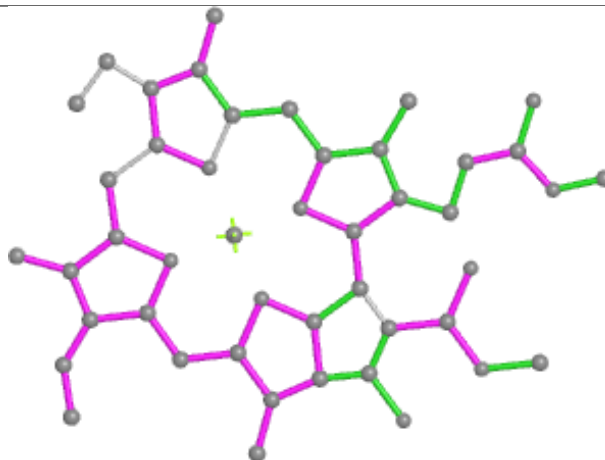
Ligand BCR L 205**Ligand CLA A 810**



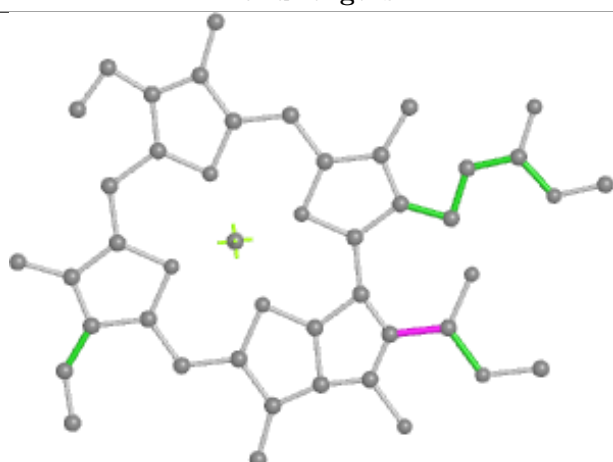
Ligand CLA 3 301



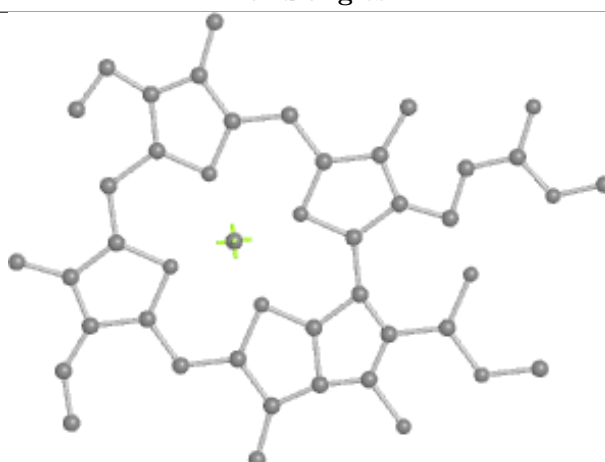
Bond lengths



Bond angles

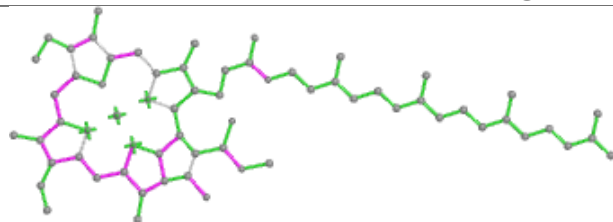


Torsions

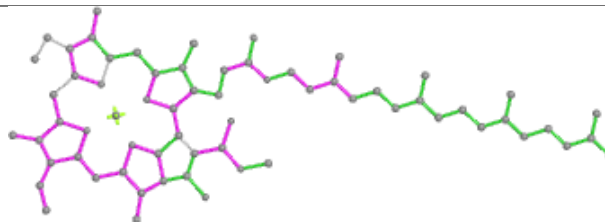


Rings

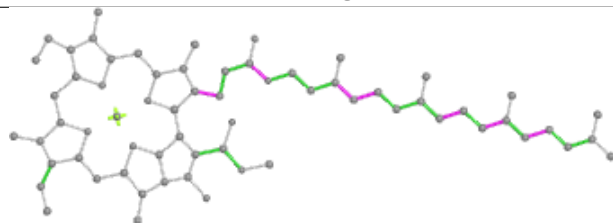
Ligand CLA a 820



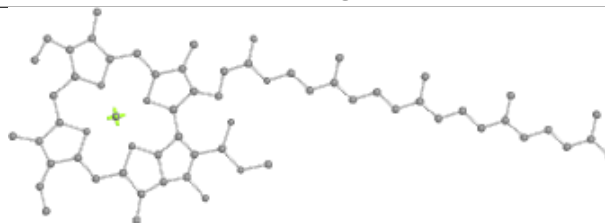
Bond lengths



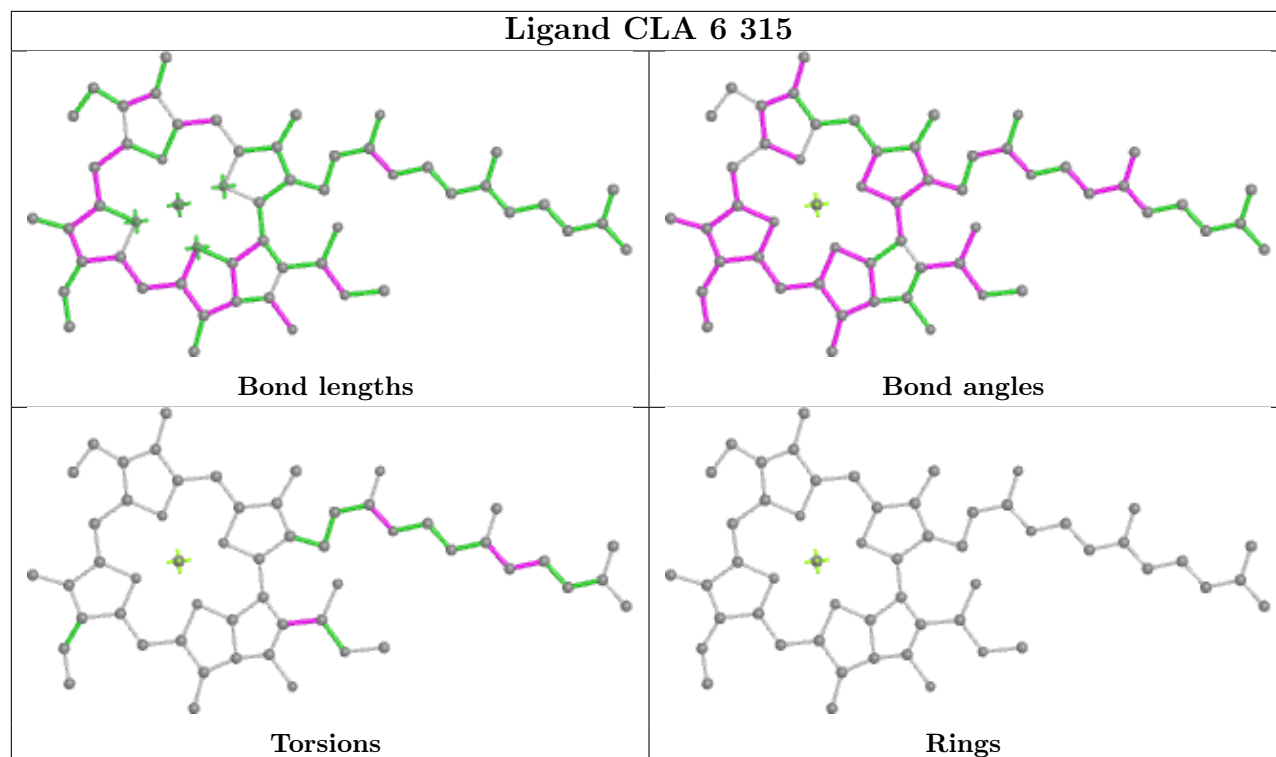
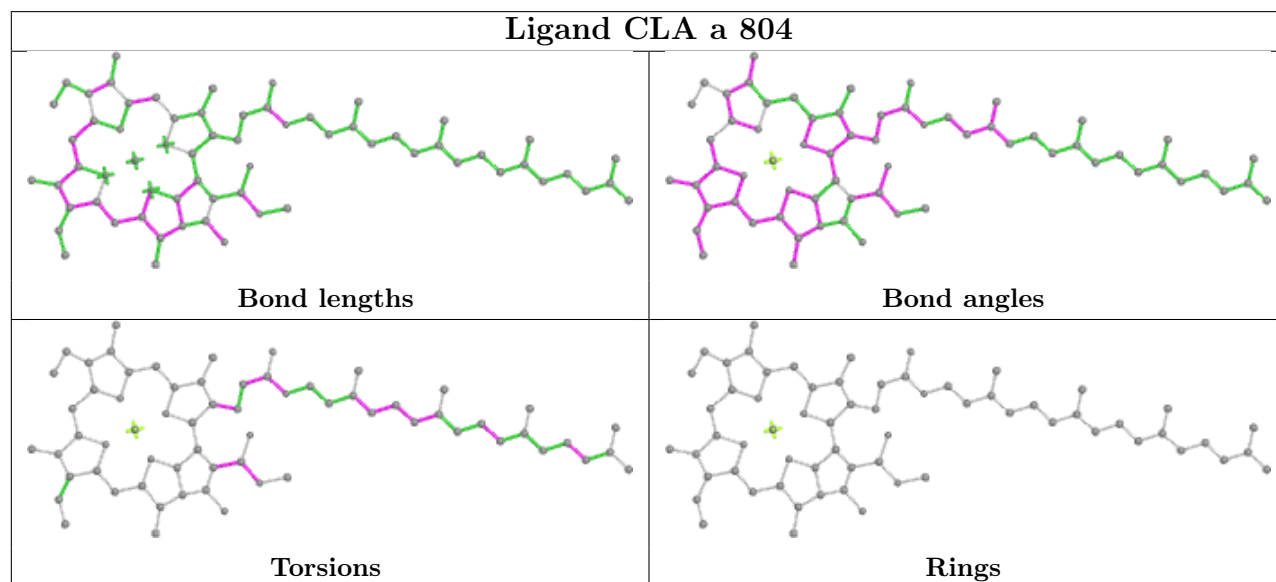
Bond angles



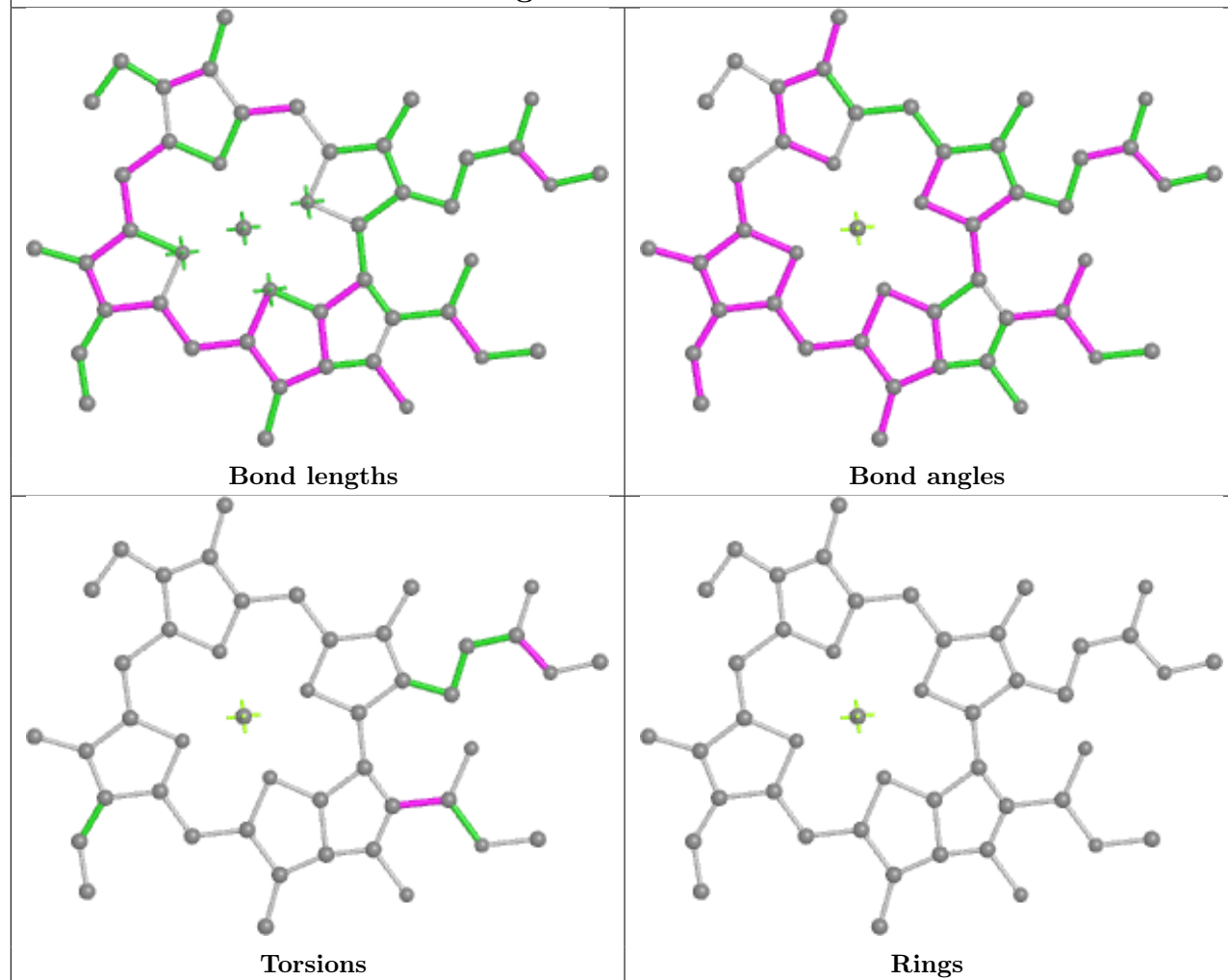
Torsions



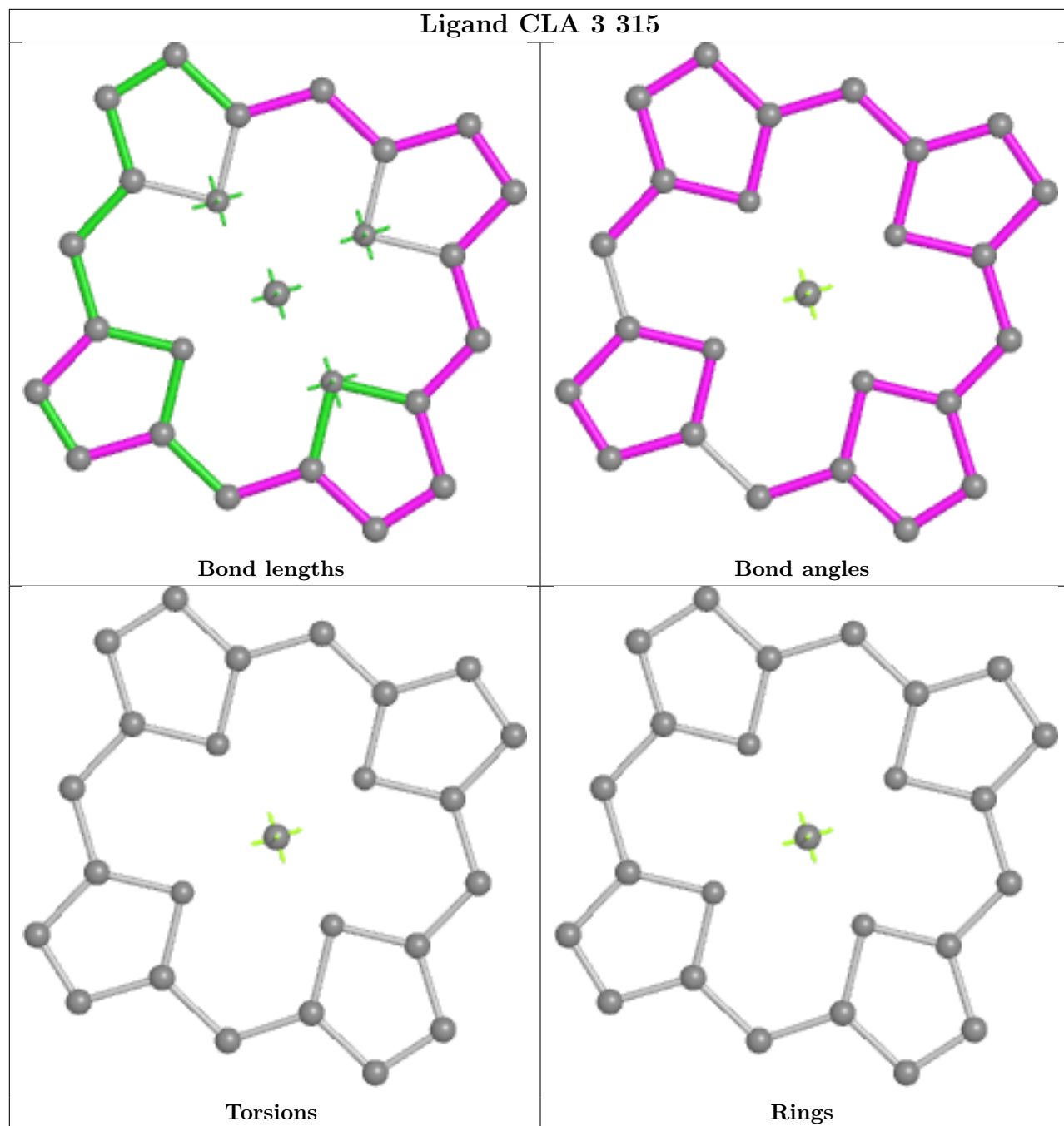
Rings

Ligand CLA 6 315**Ligand CLA a 804**

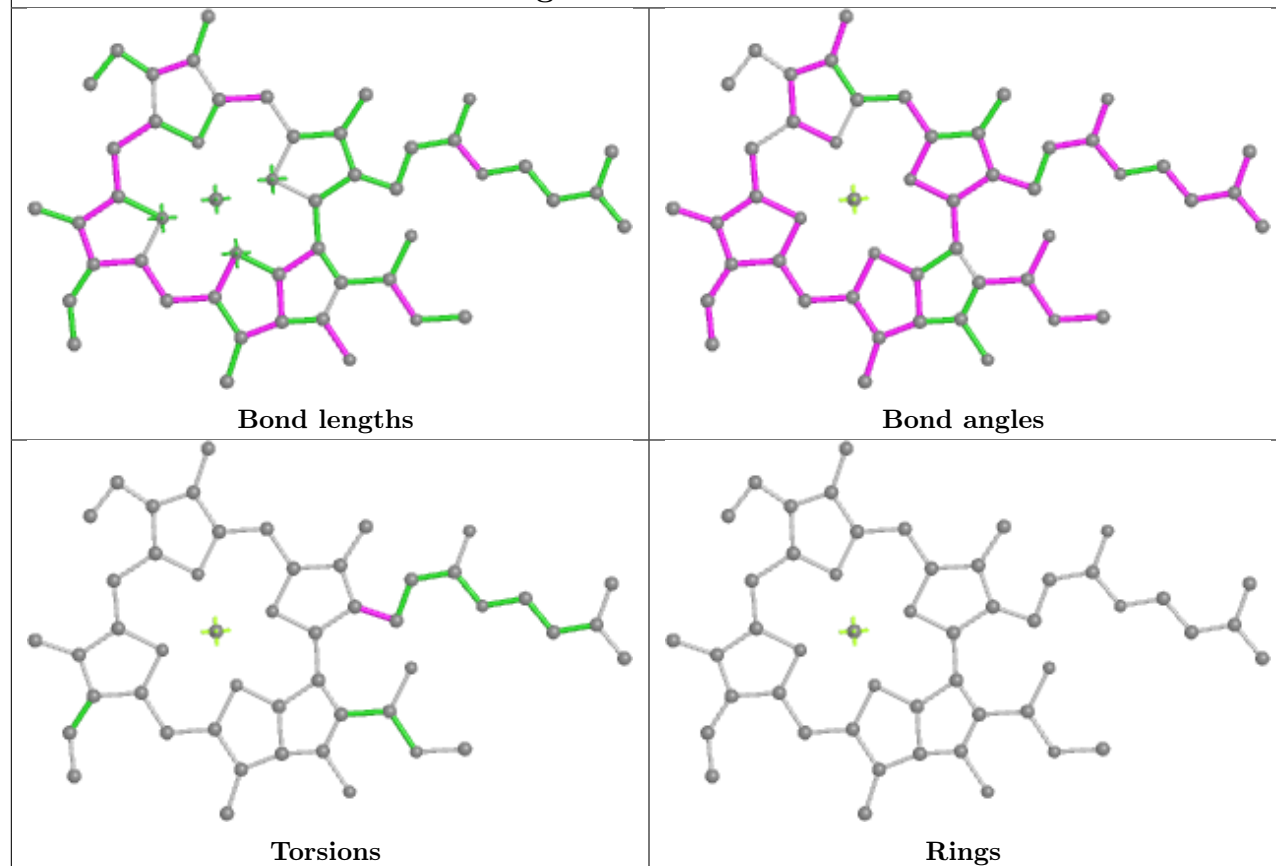
Ligand CLA 6 309



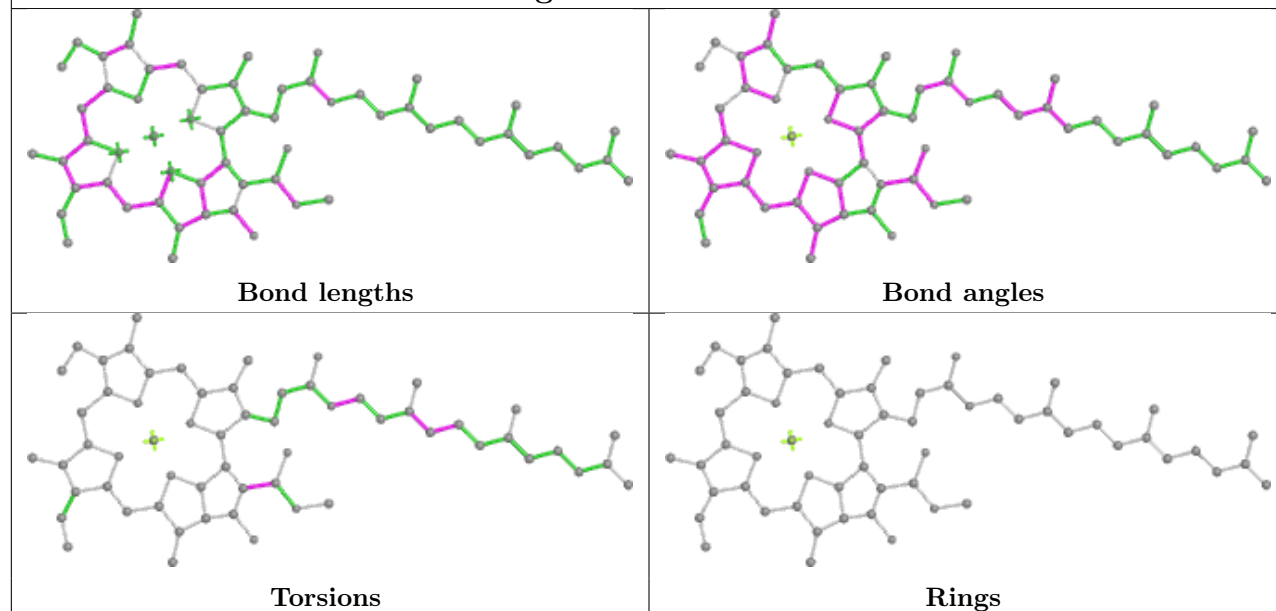
Ligand CLA 3 315



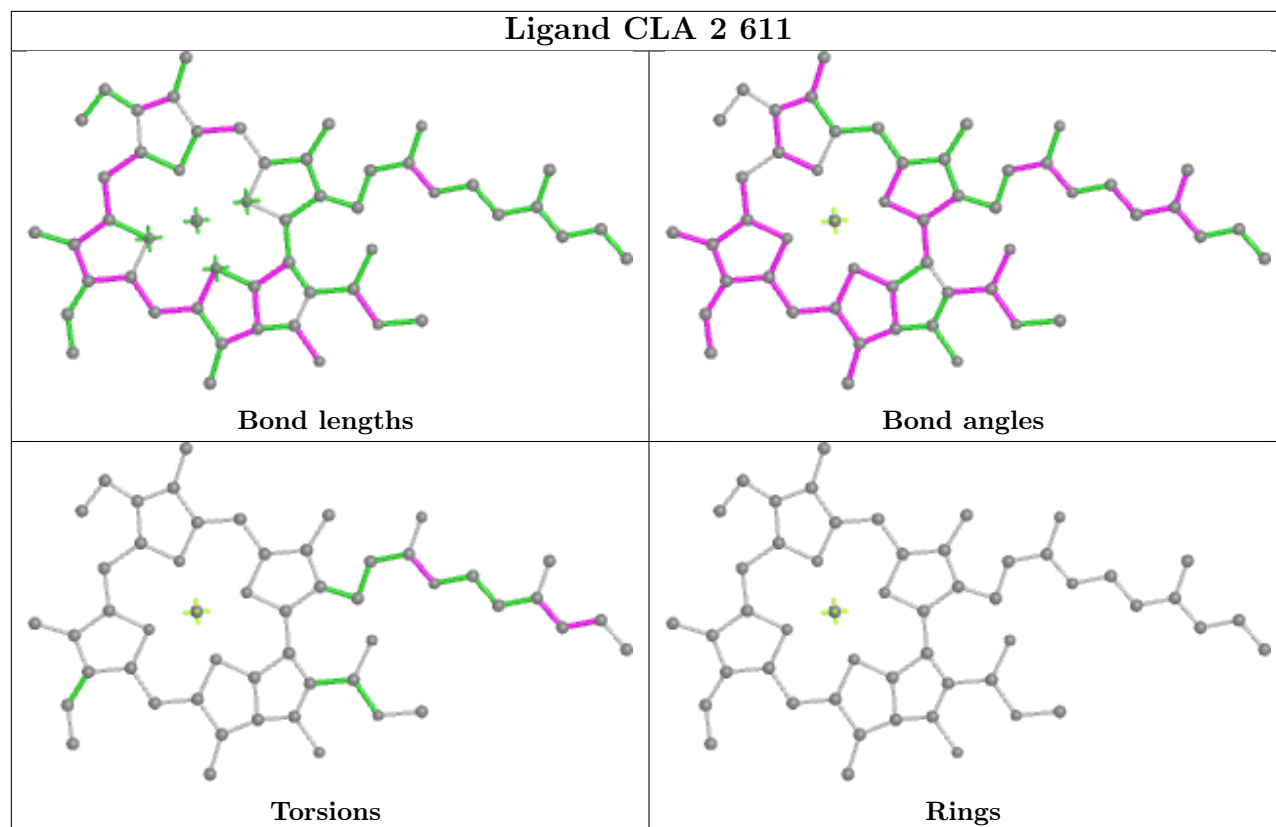
Ligand CLA 3 309



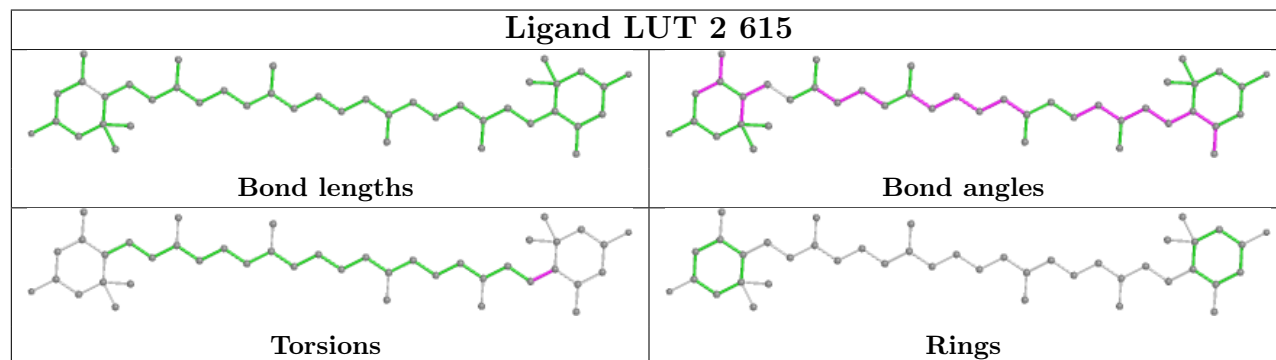
Ligand CLA b 836



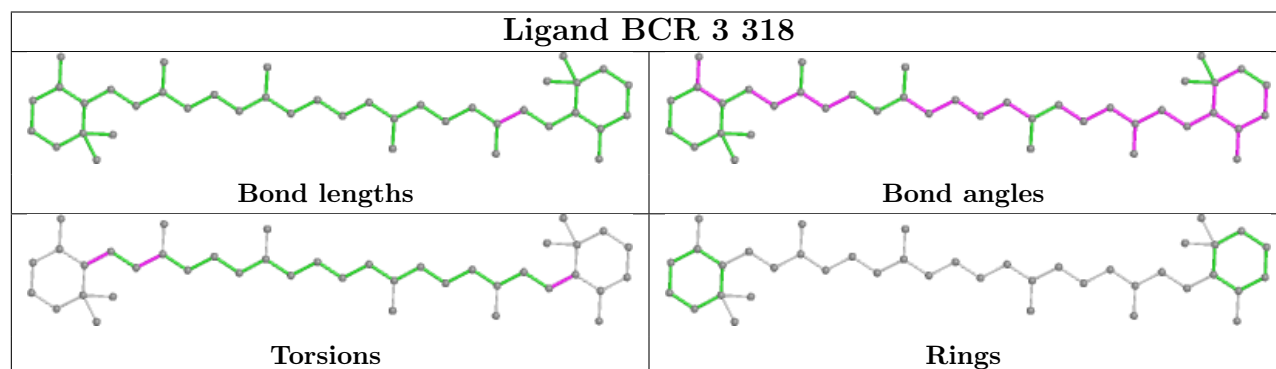
Ligand CLA 2 611



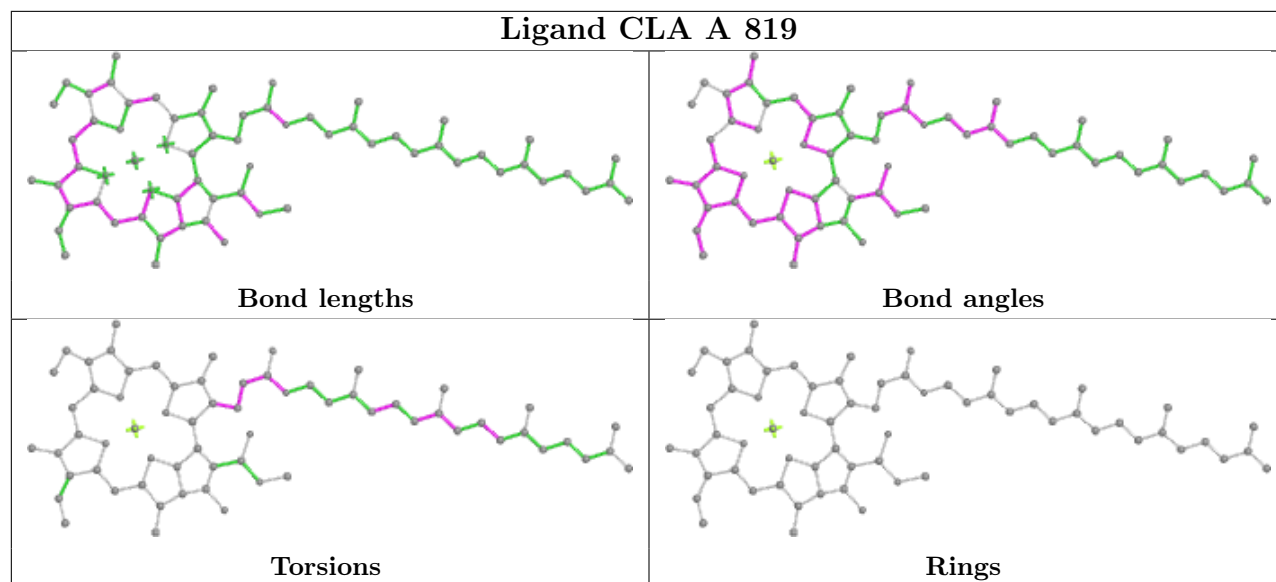
Ligand LUT 2 615



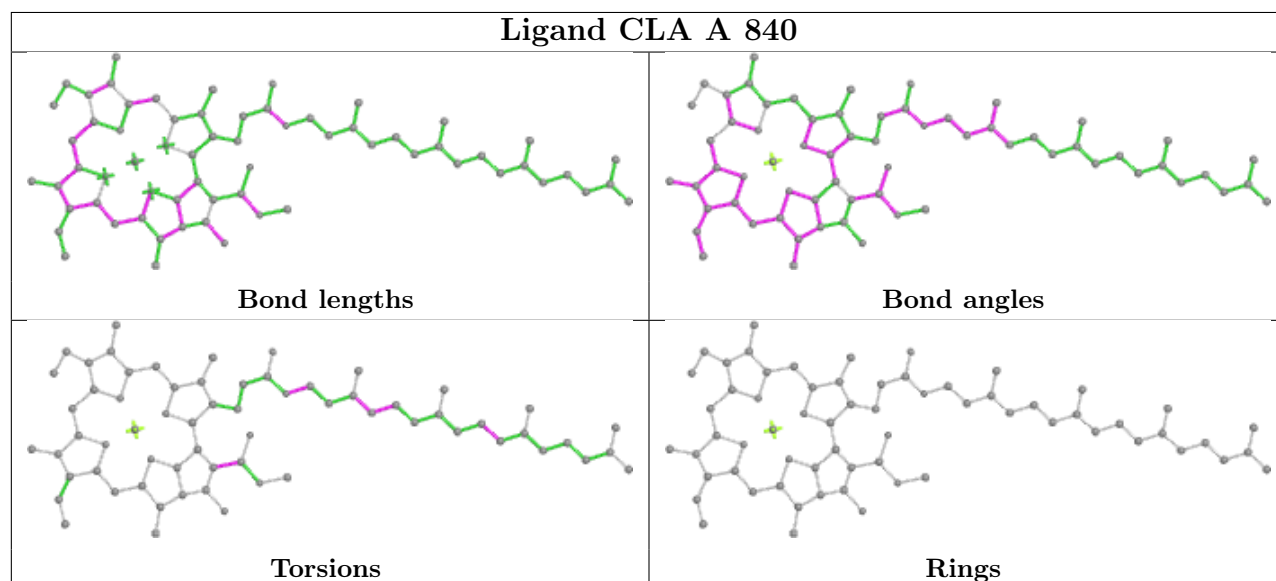
Ligand BCR 3 318



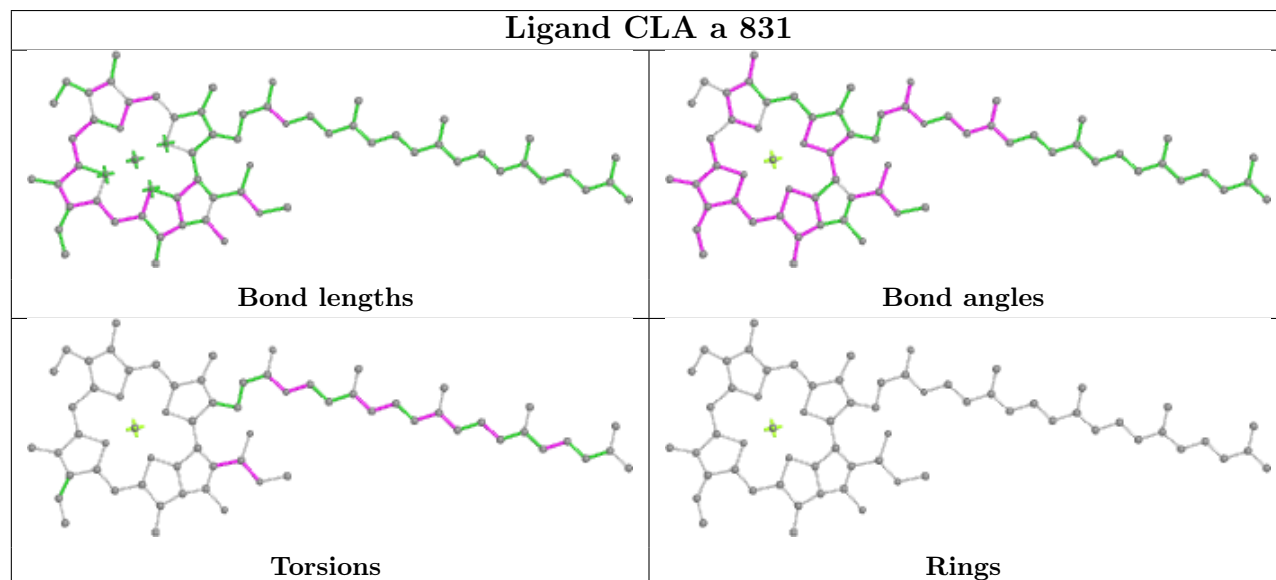
Ligand CLA A 819



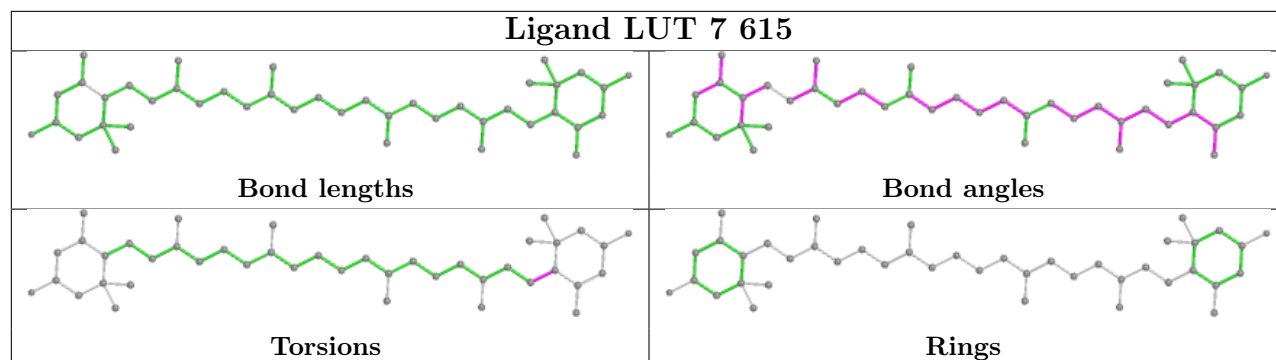
Ligand CLA A 840



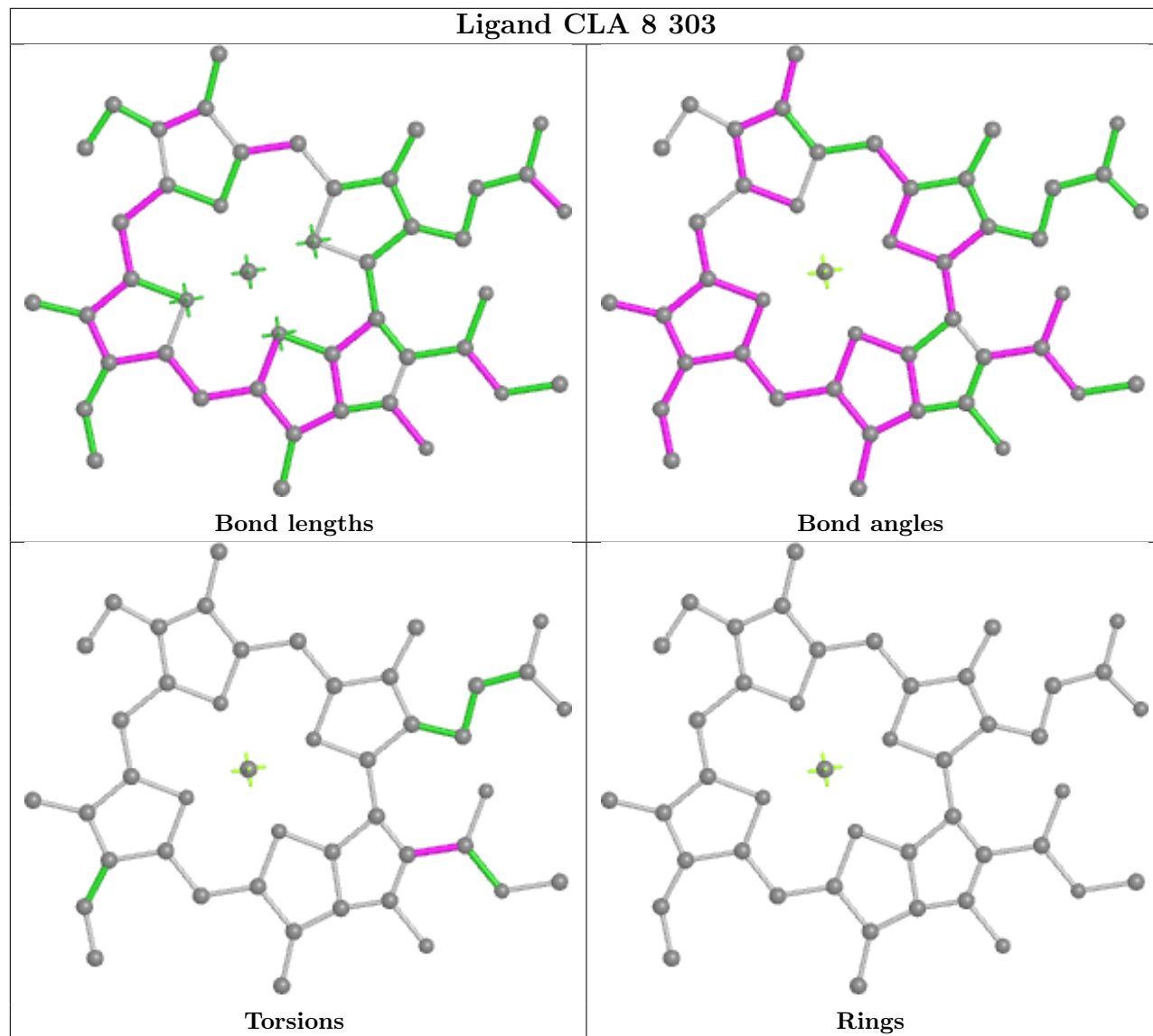
Ligand CLA a 831



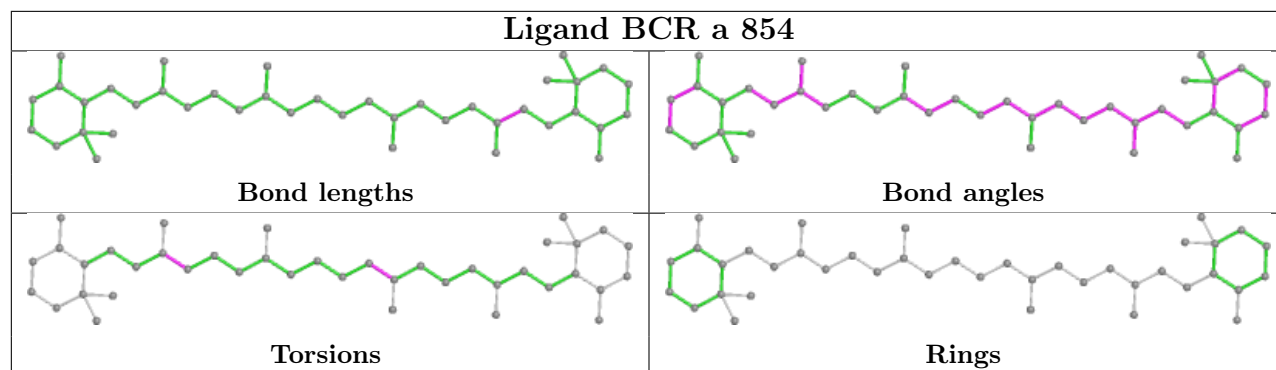
Ligand LUT 7 615



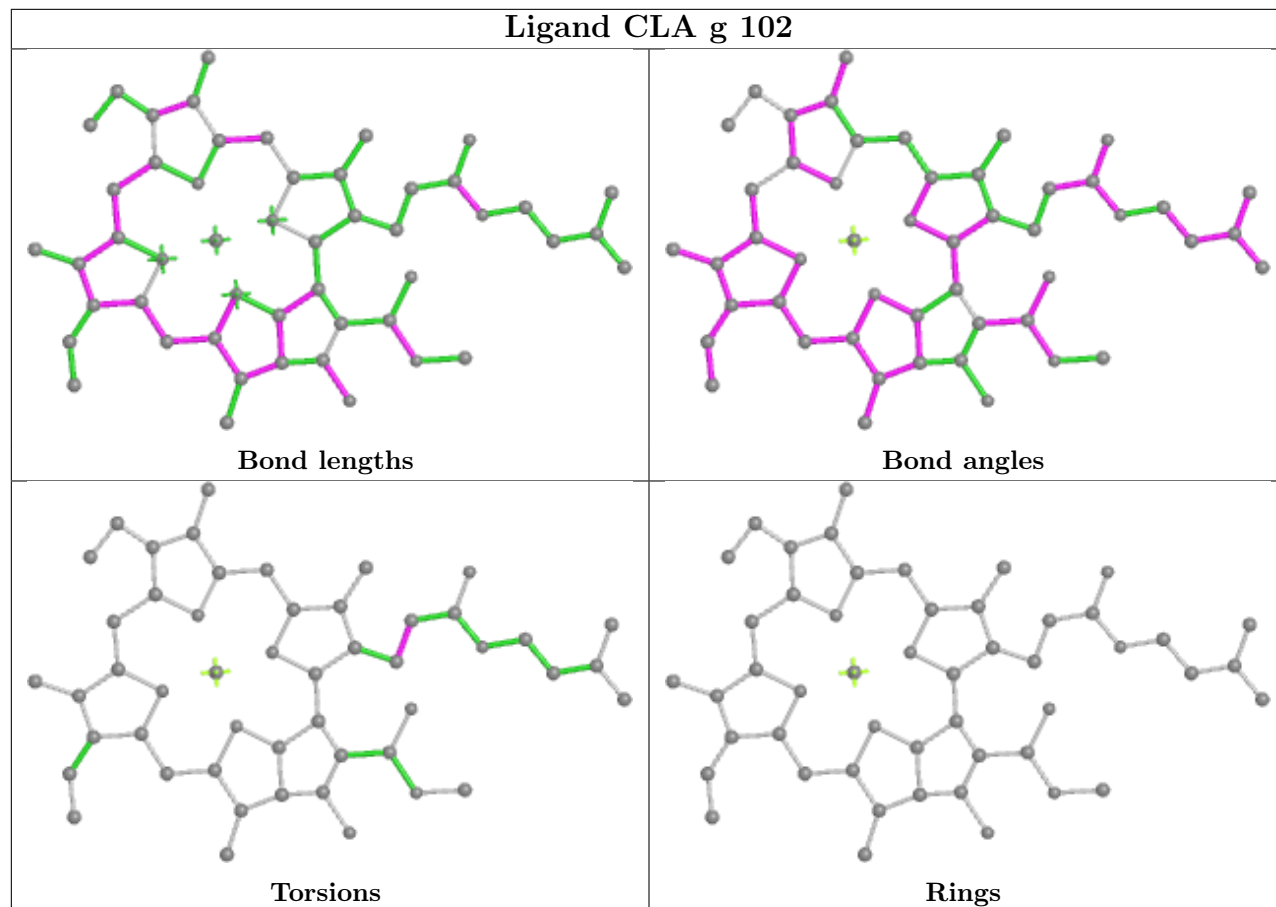
Ligand CLA 8 303

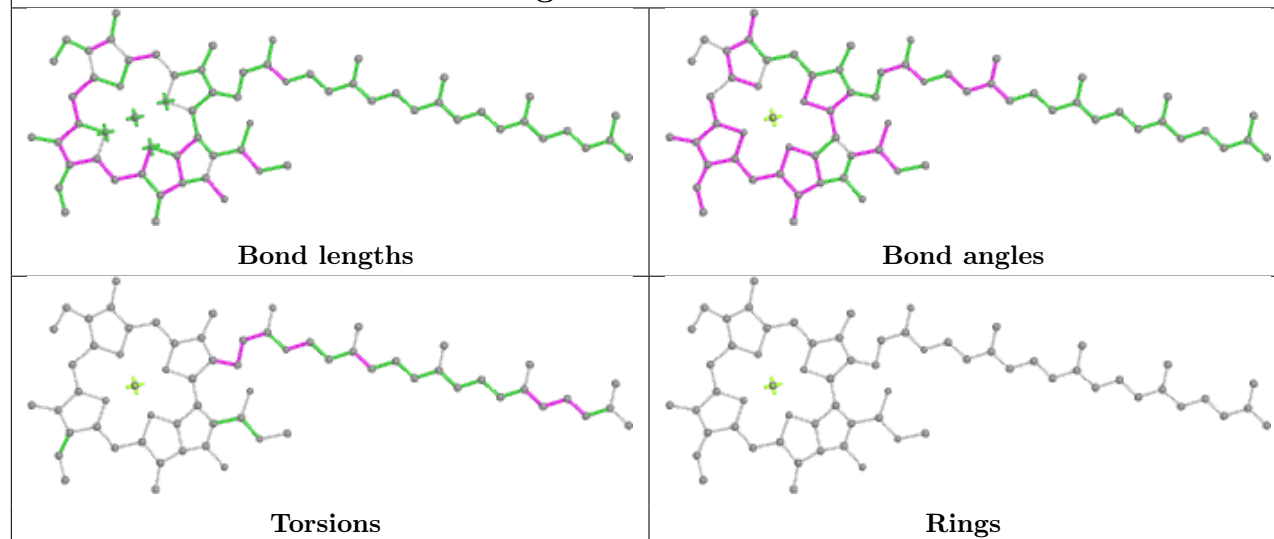
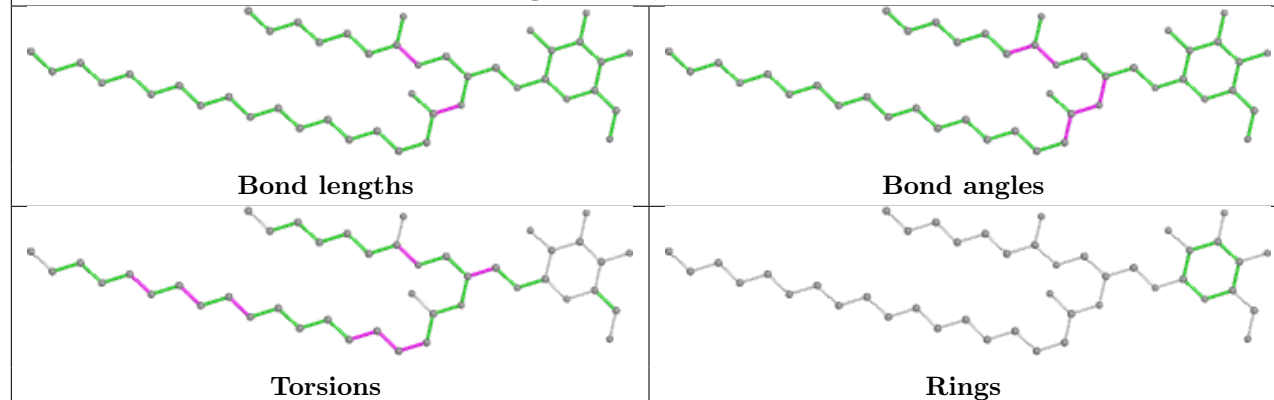
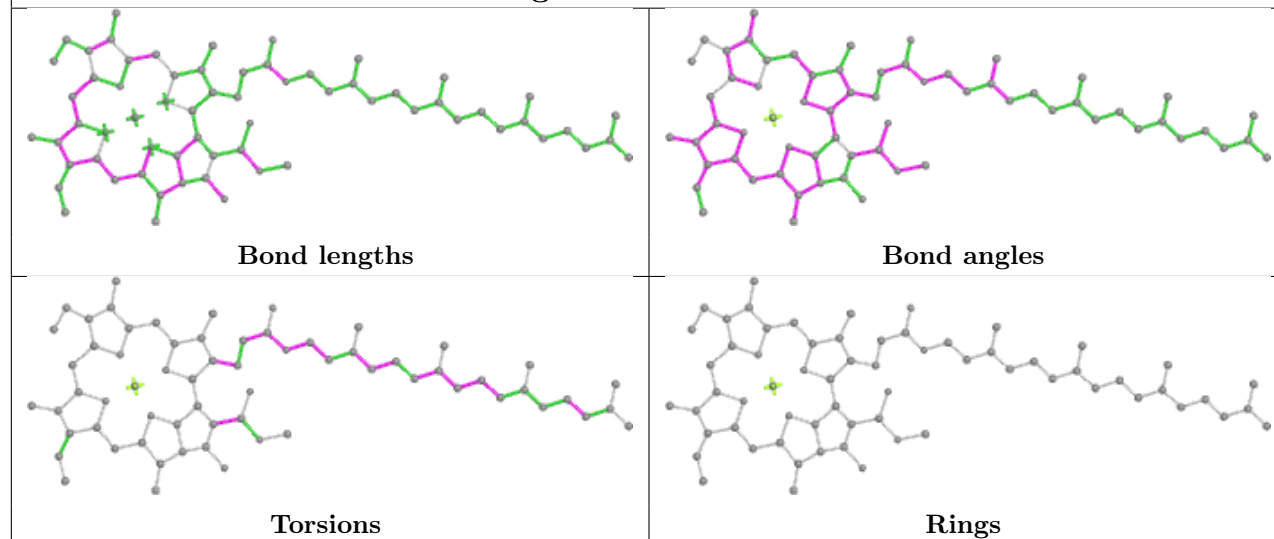


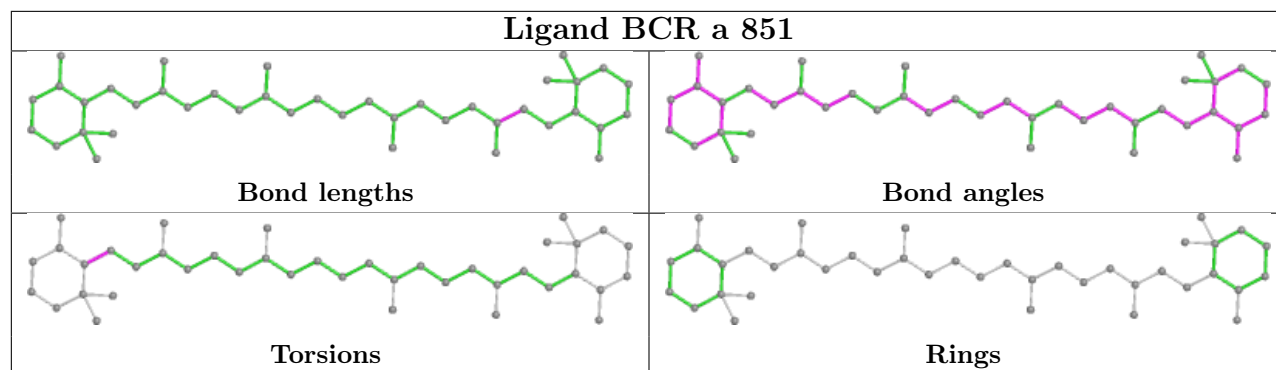
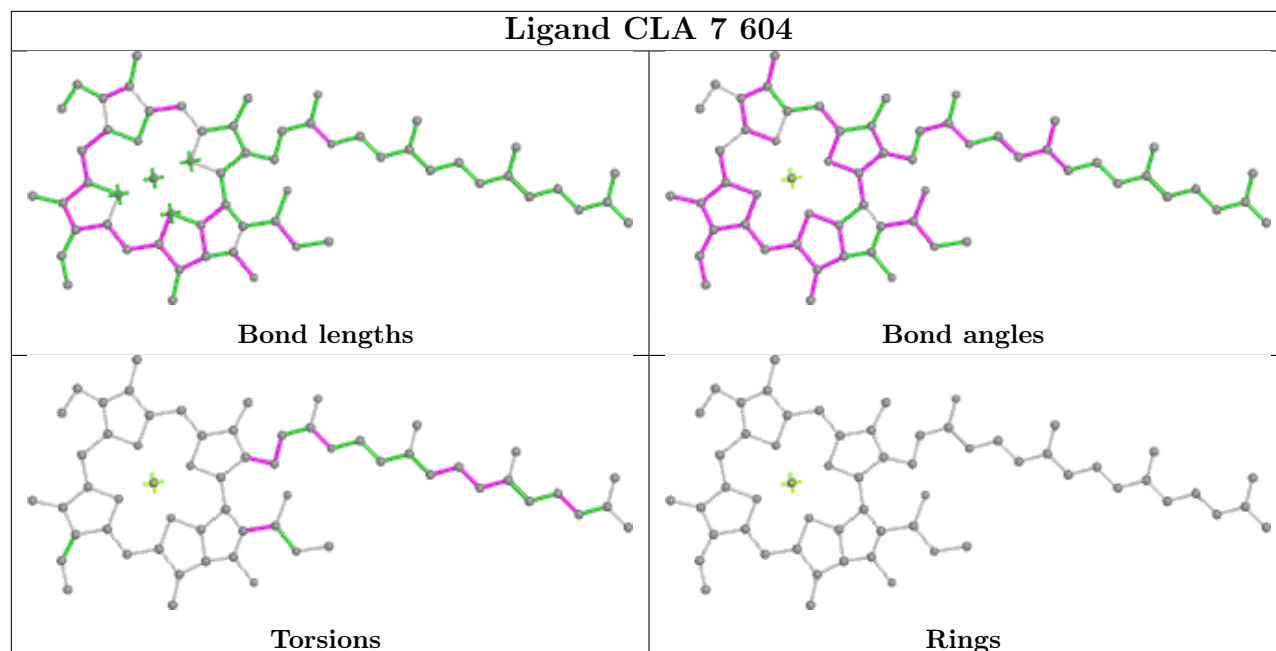
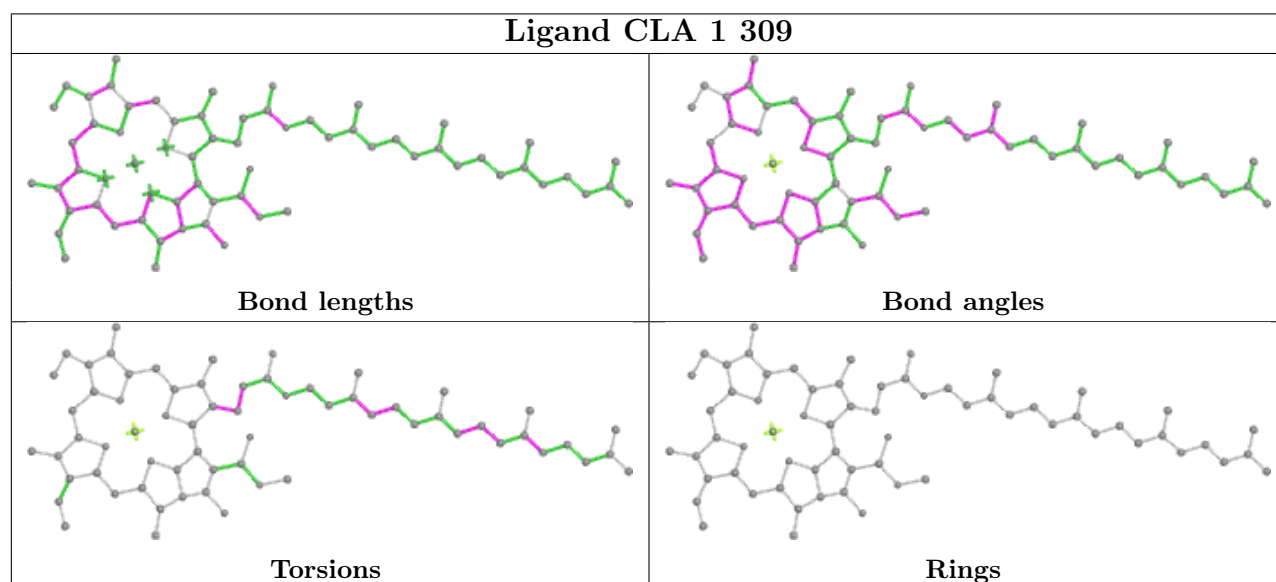
Ligand BCR a 854

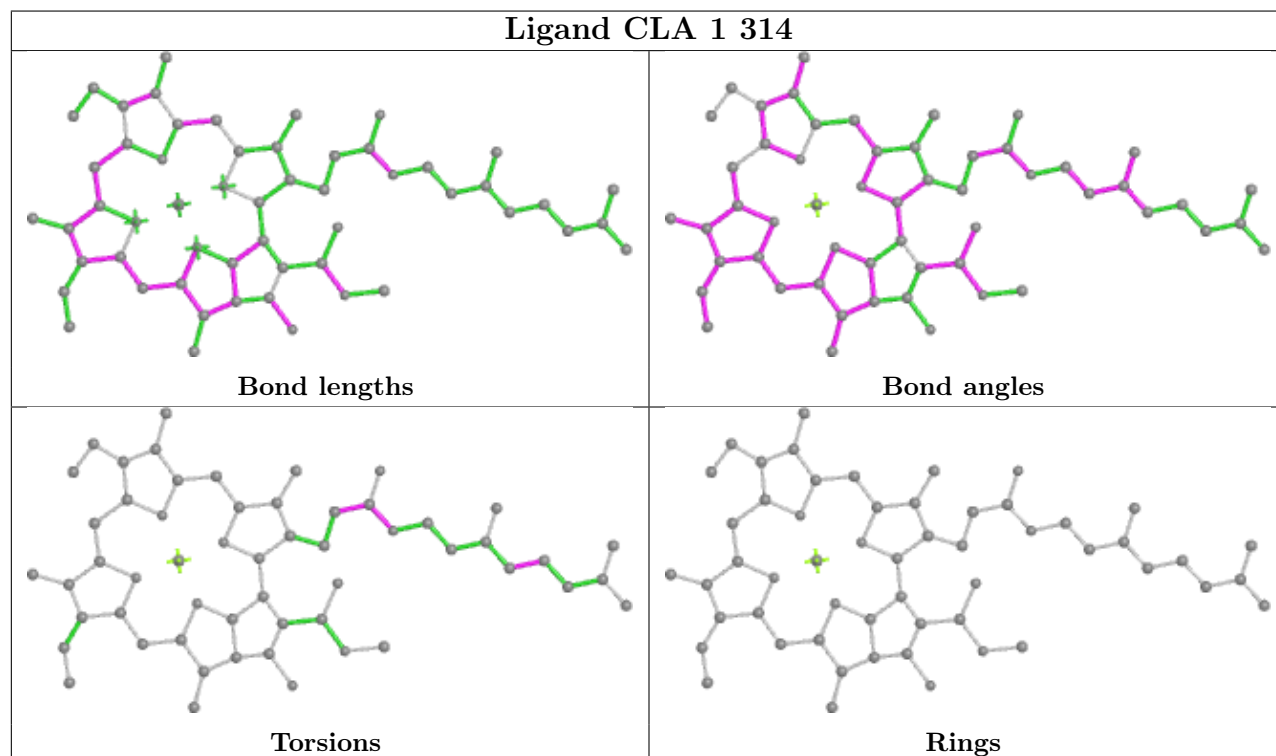
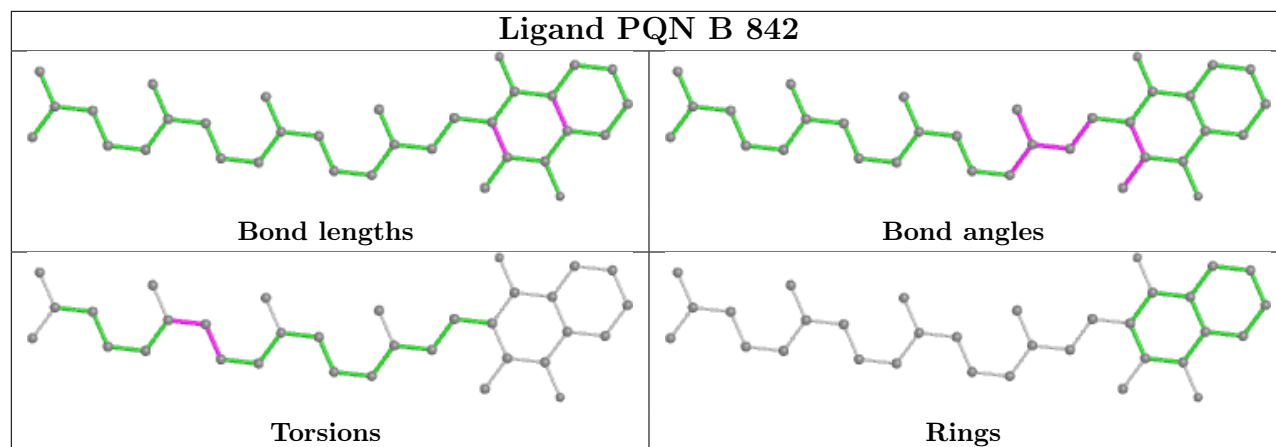


Ligand CLA g 102

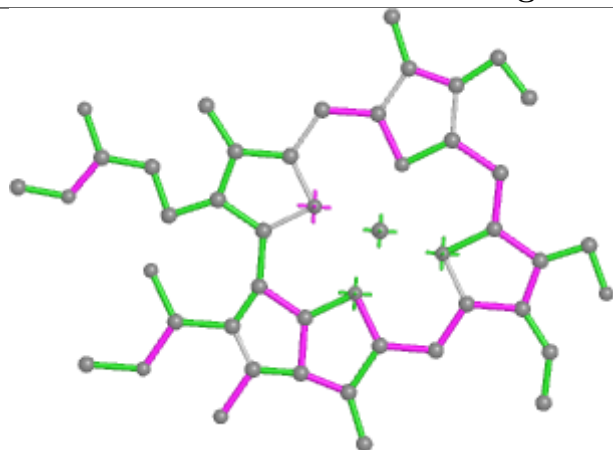


Ligand CLA a 830**Ligand LMG G 102****Ligand CLA A 806**

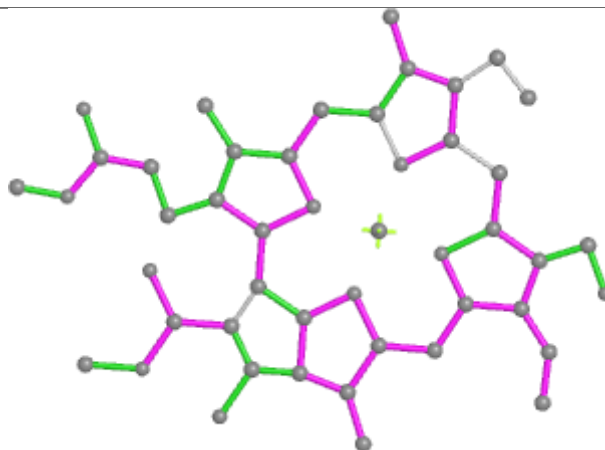
Ligand BCR a 851**Ligand CLA 7 604****Ligand CLA 1 309**



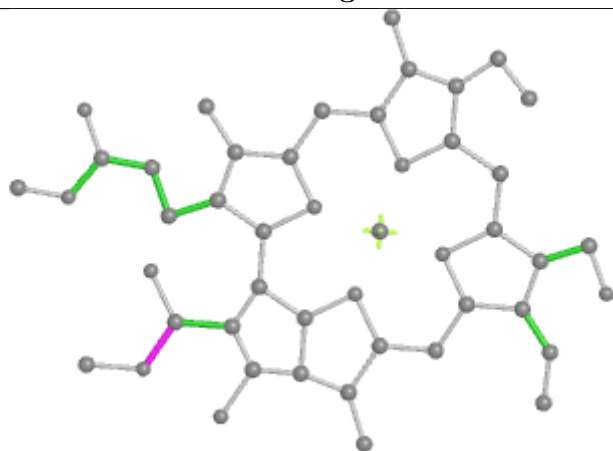
Ligand CHL 3 307



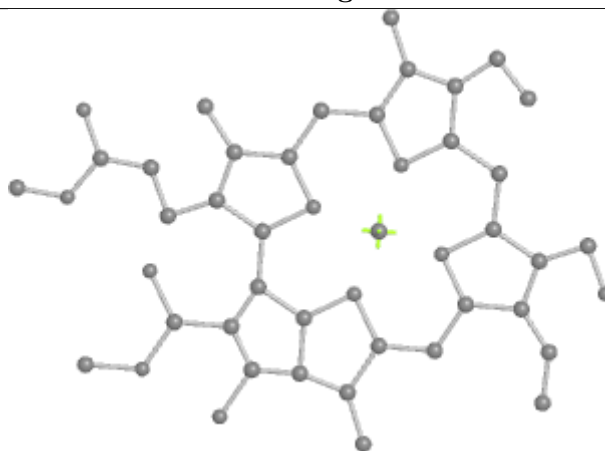
Bond lengths



Bond angles

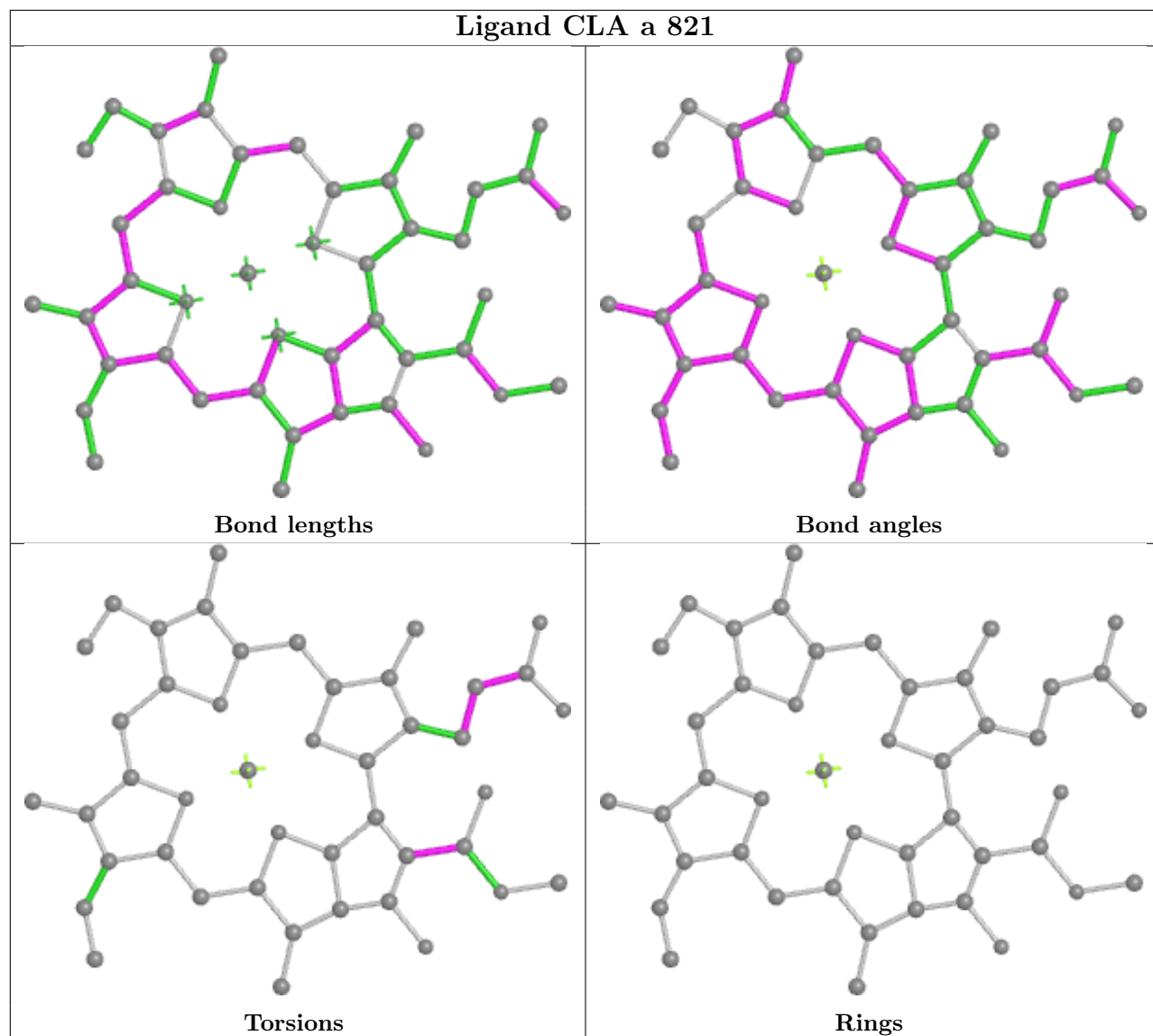


Torsions

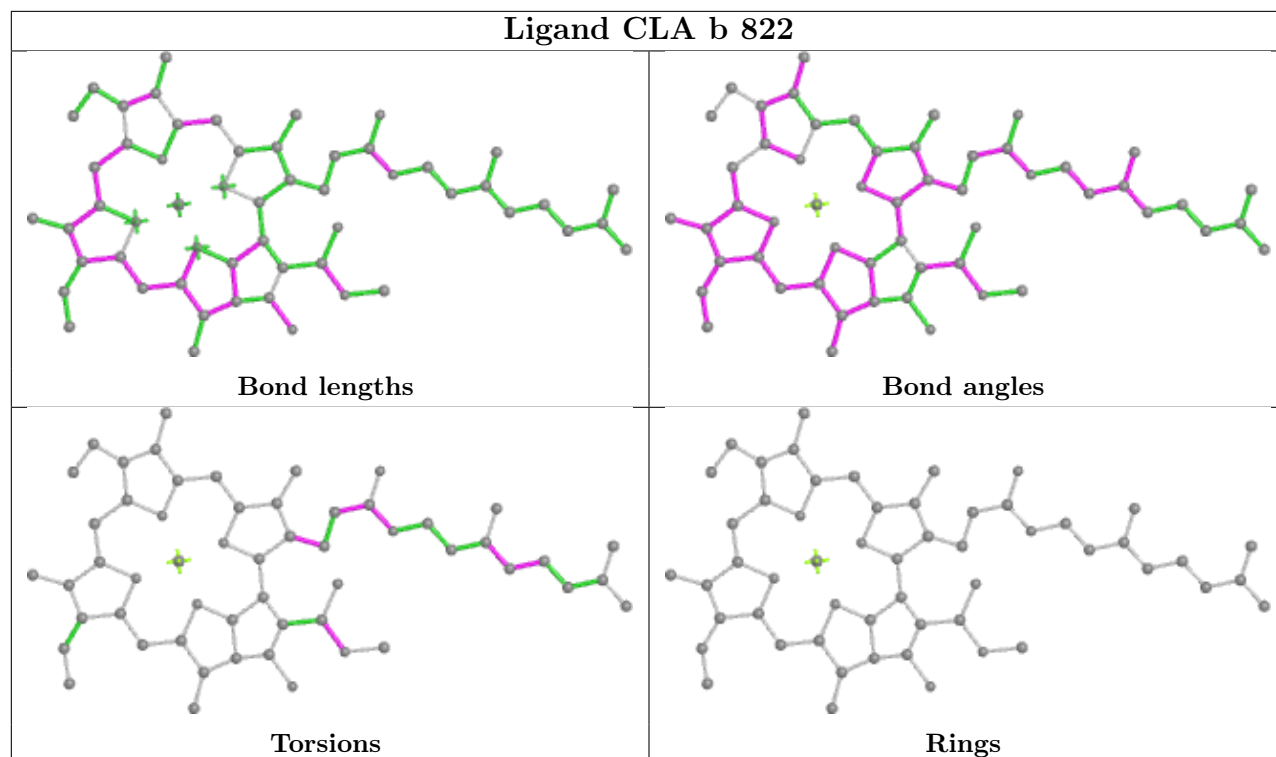


Rings

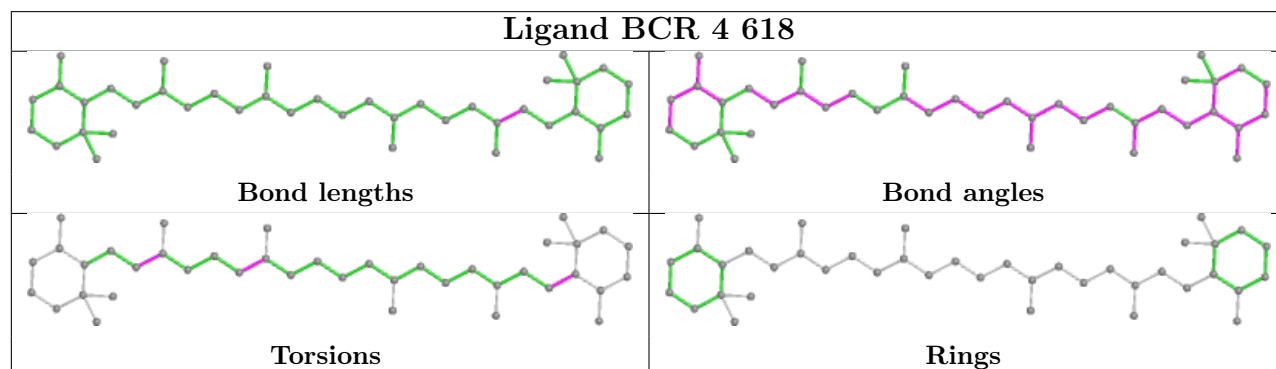
Ligand CLA a 821



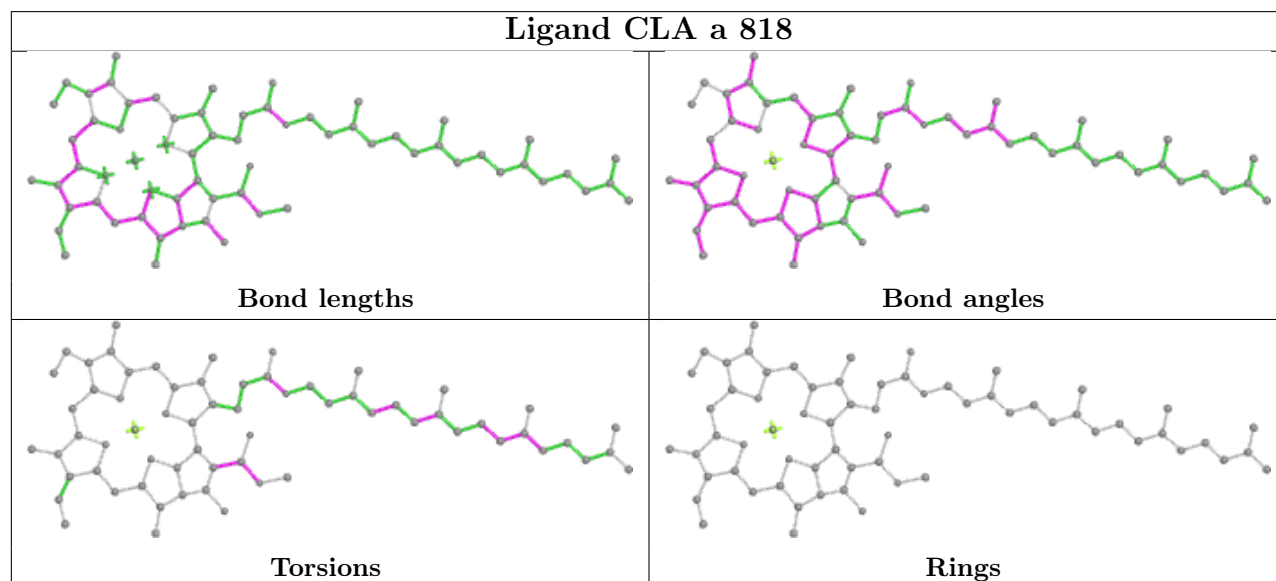
Ligand CLA b 822



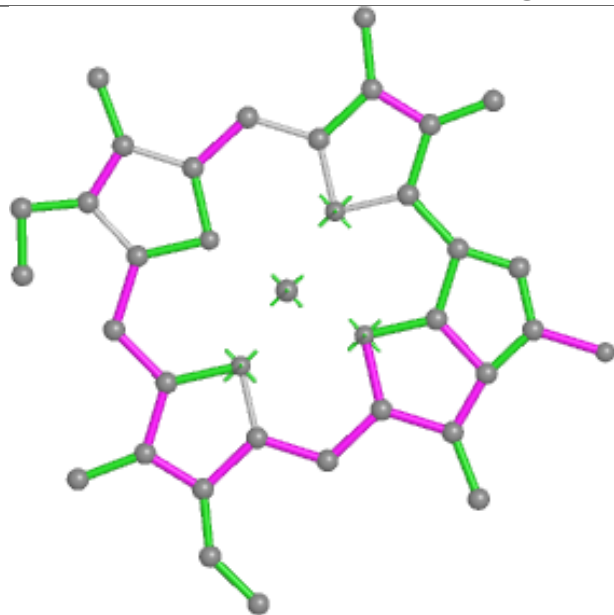
Ligand BCR 4 618



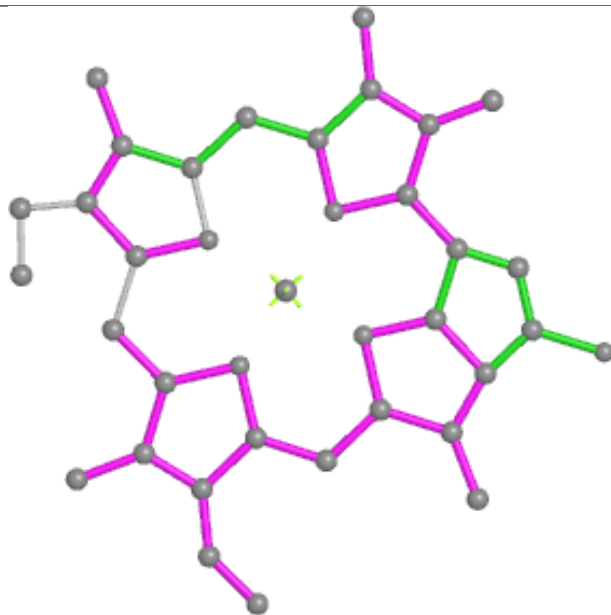
Ligand CLA a 818



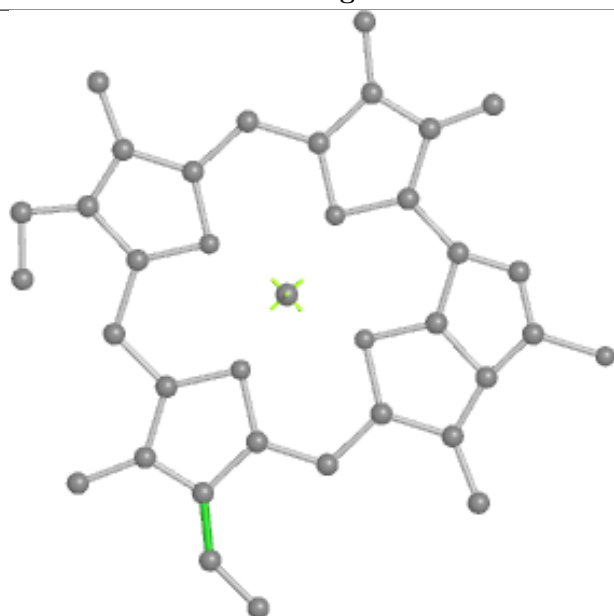
Ligand CLA 3 310



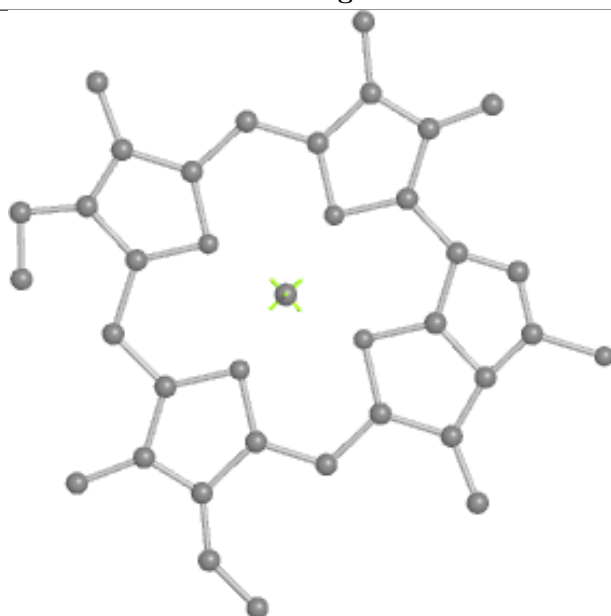
Bond lengths



Bond angles

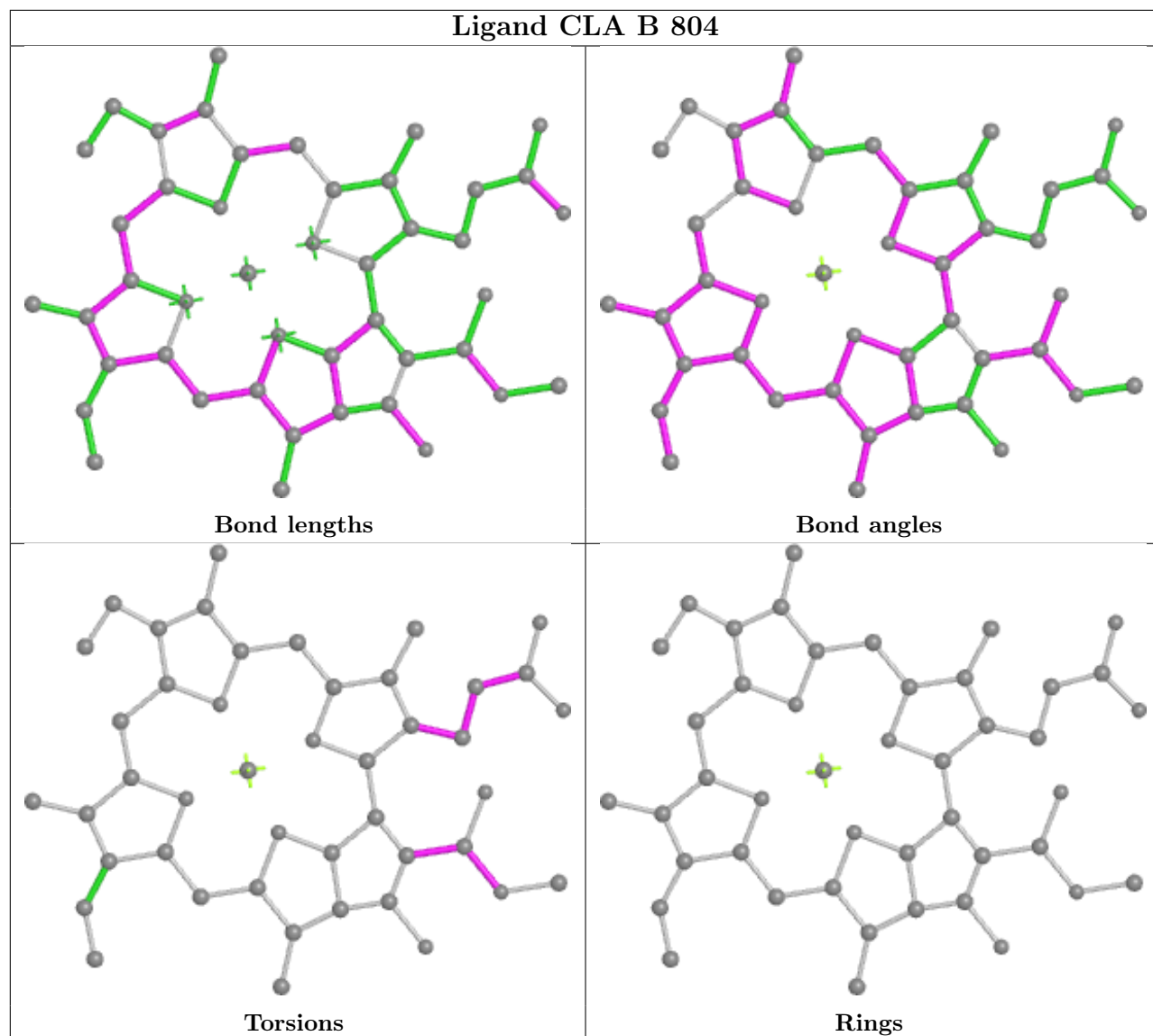


Torsions

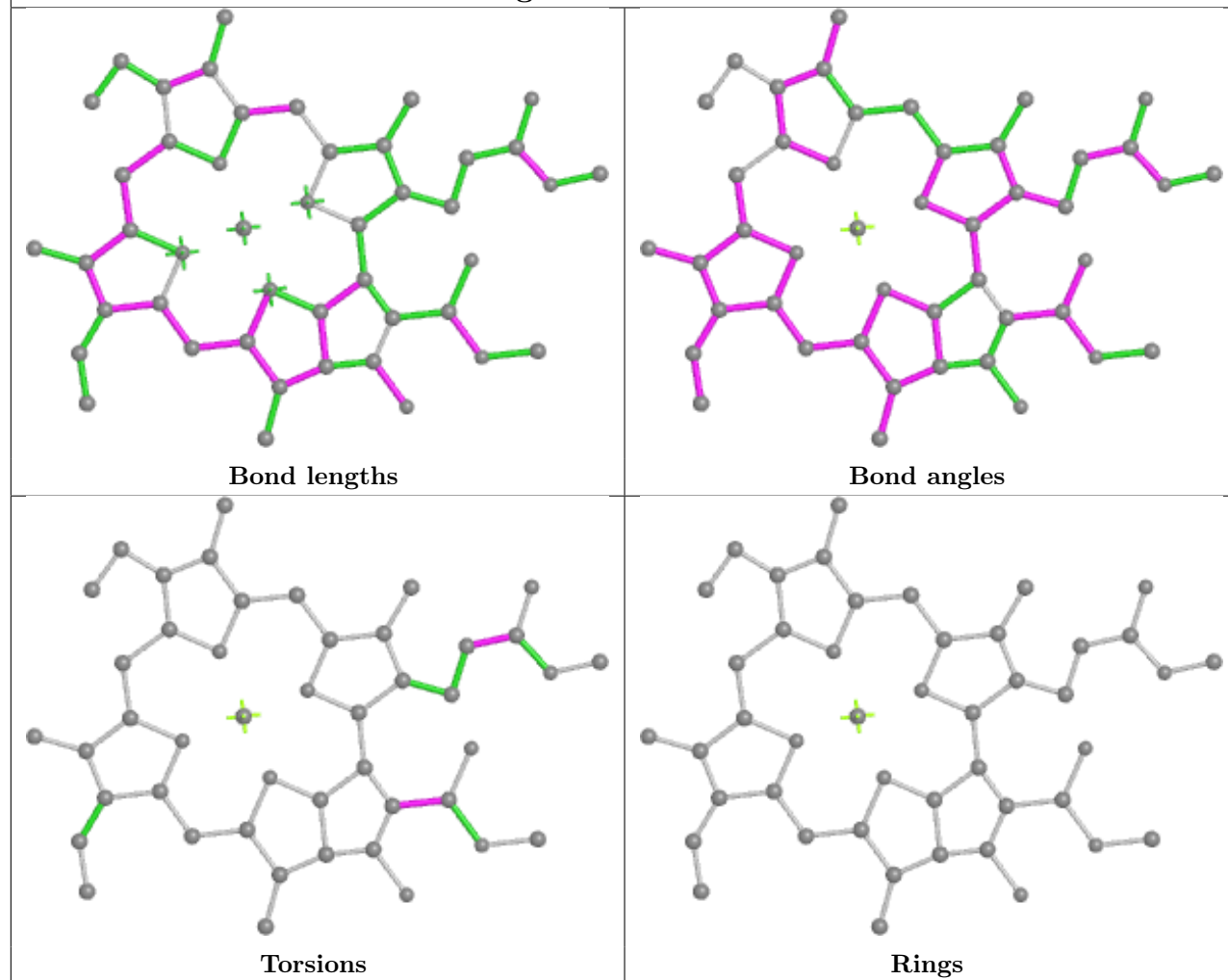


Rings

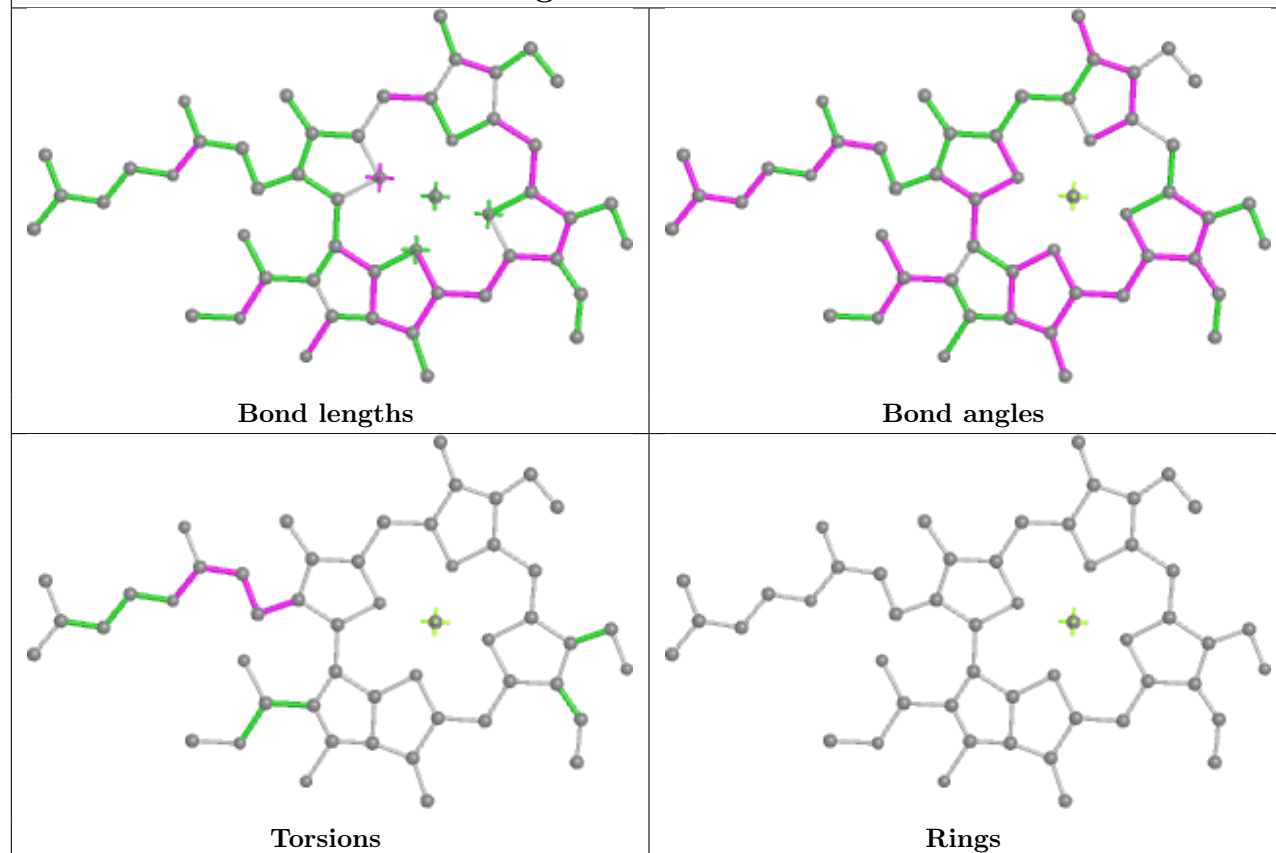
Ligand CLA B 804



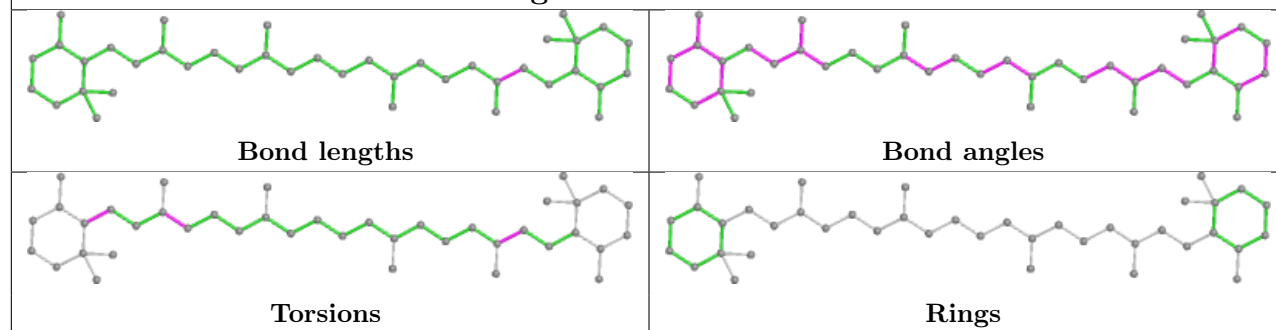
Ligand CLA 9 601



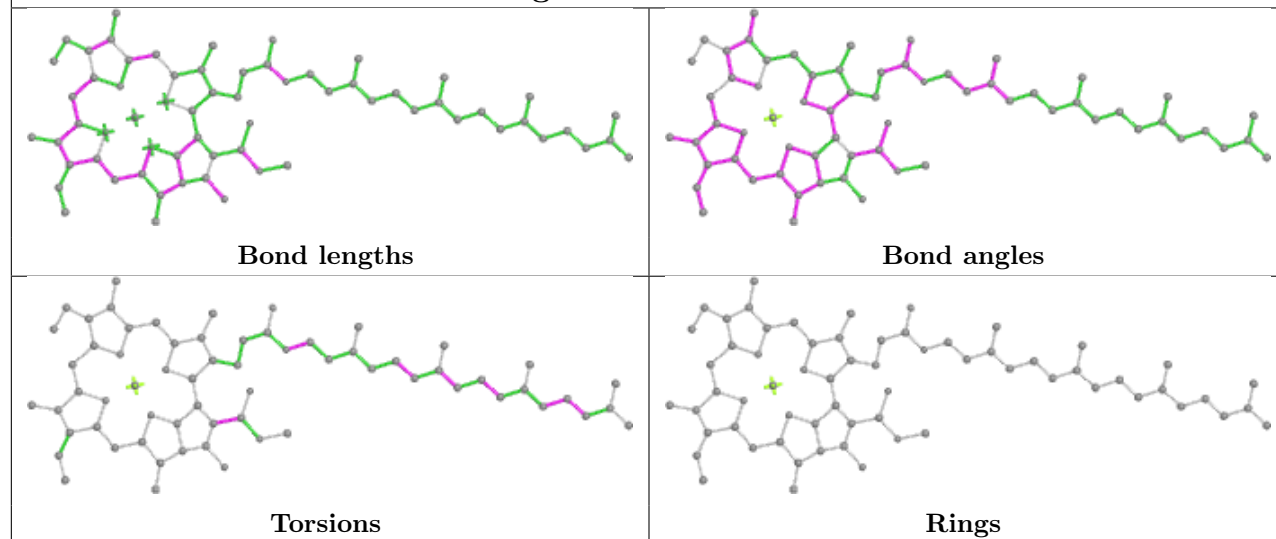
Ligand CHL 4 606



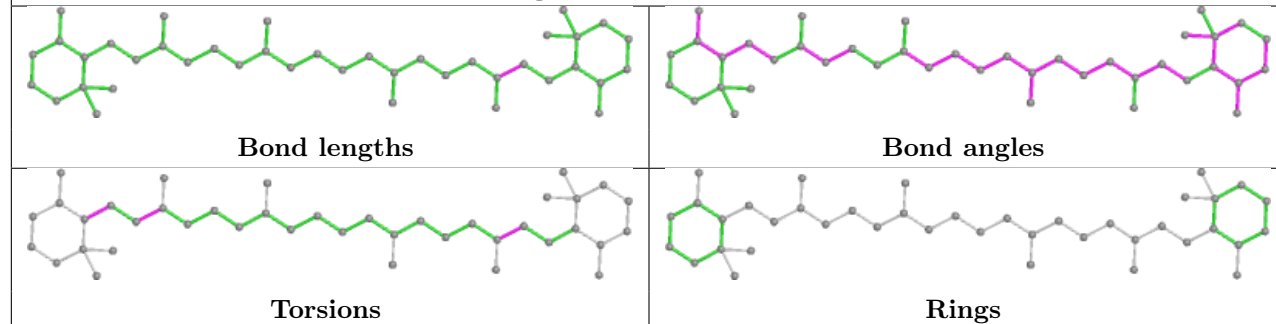
Ligand BCR B 844



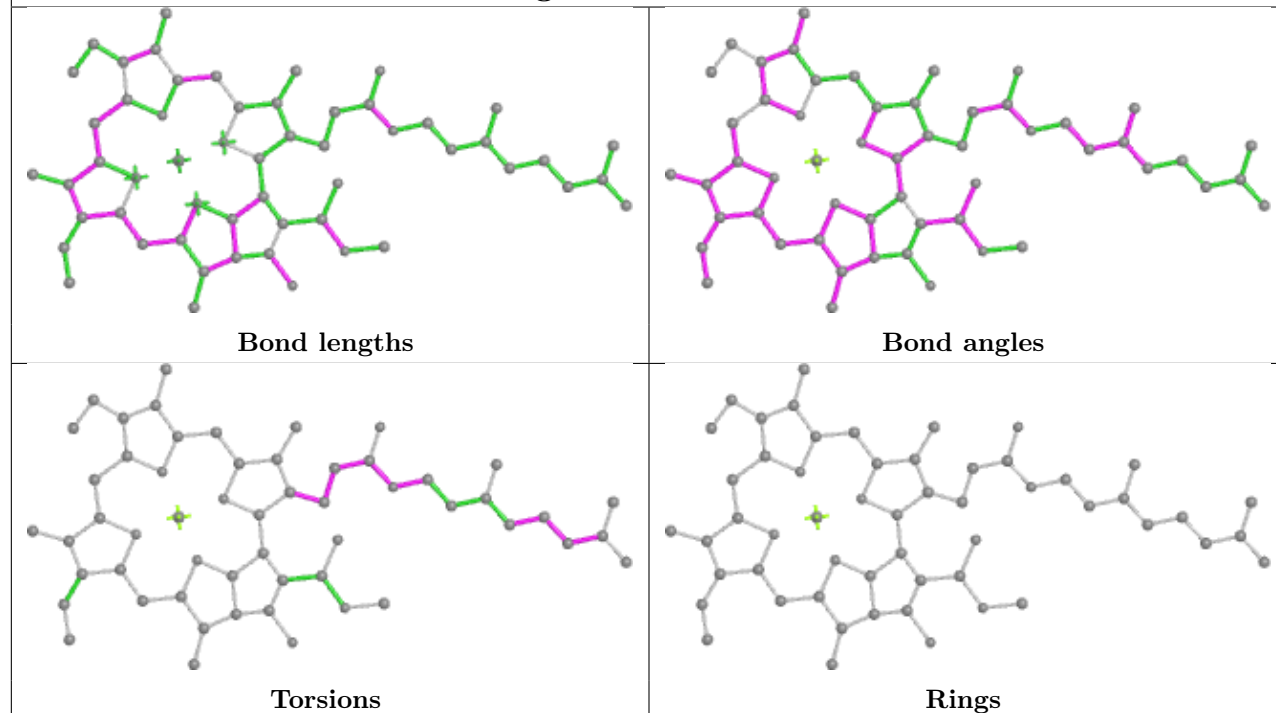
Ligand CLA B 829



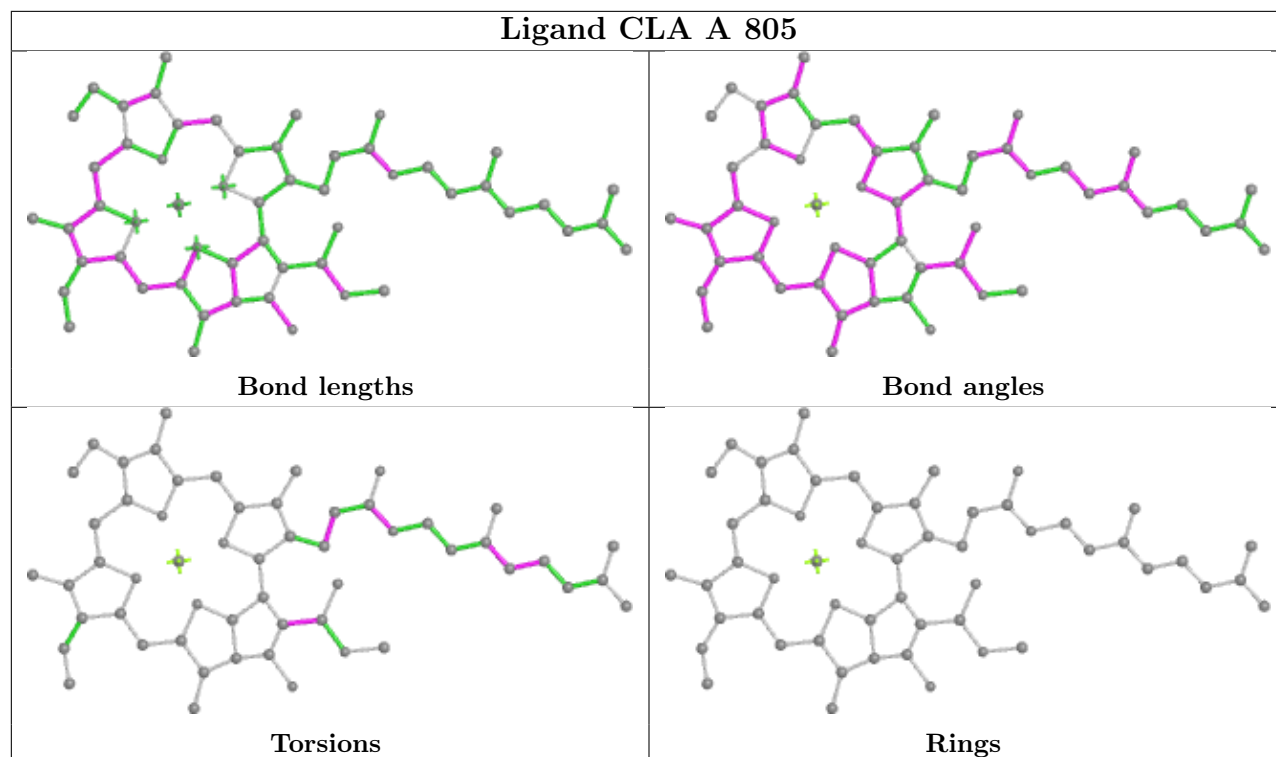
Ligand BCR B 847



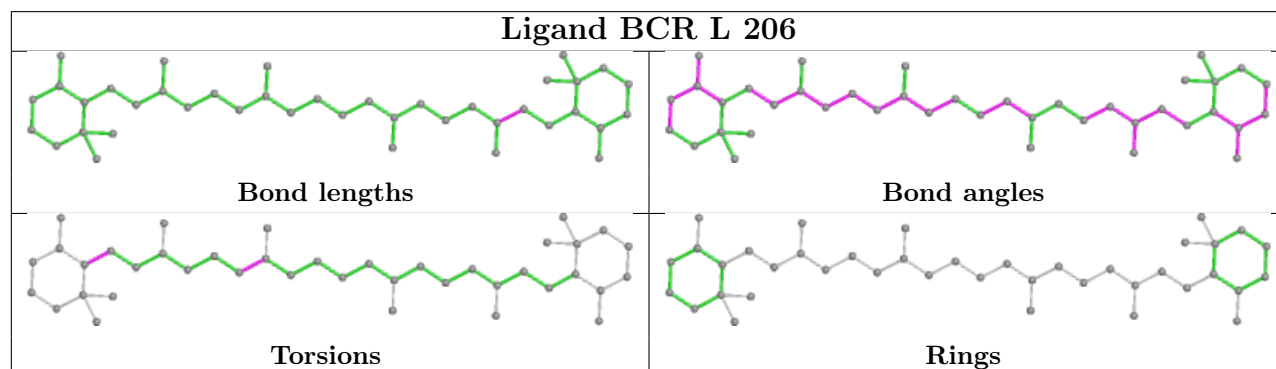
Ligand CLA b 812



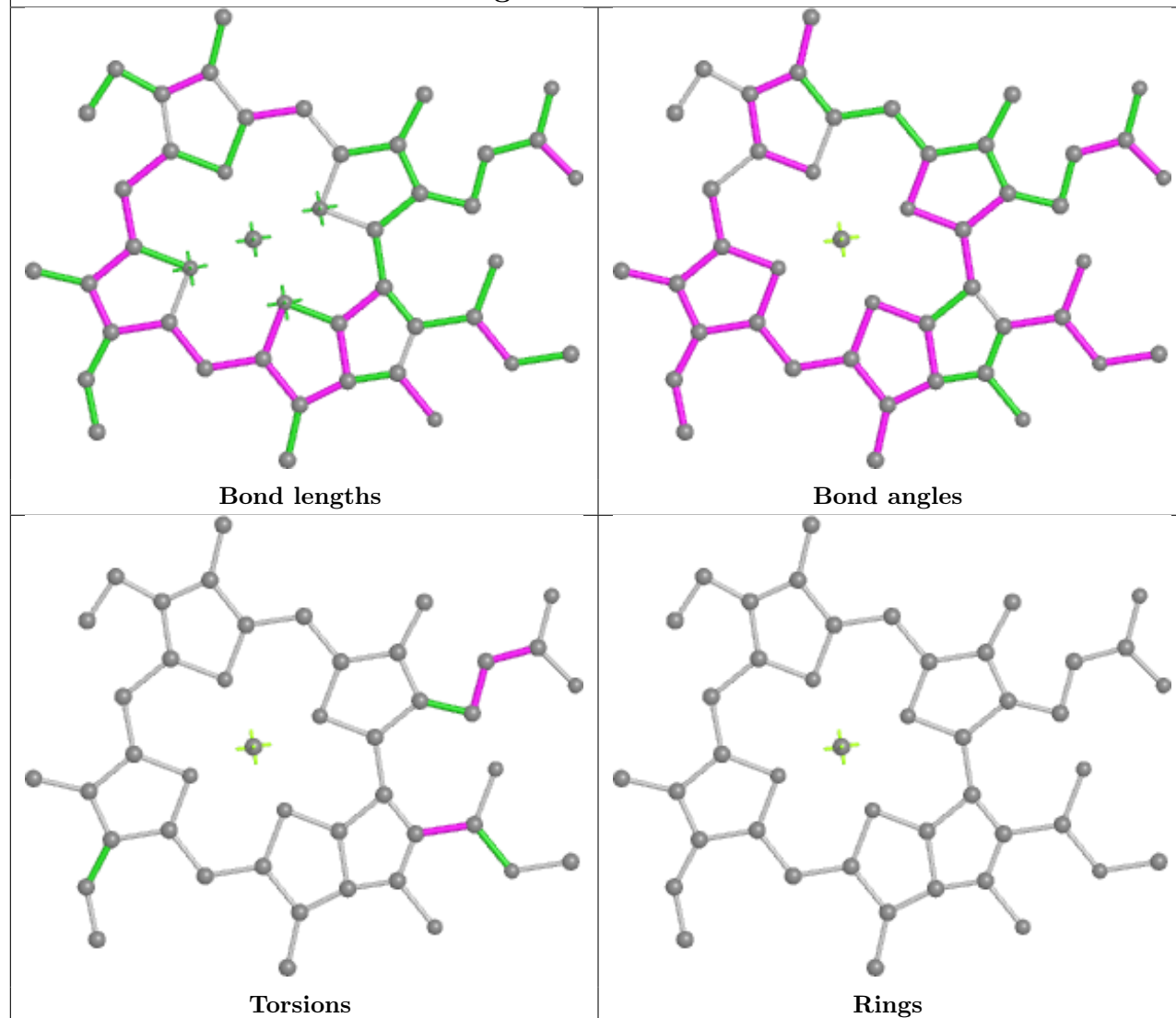
Ligand CLA A 805



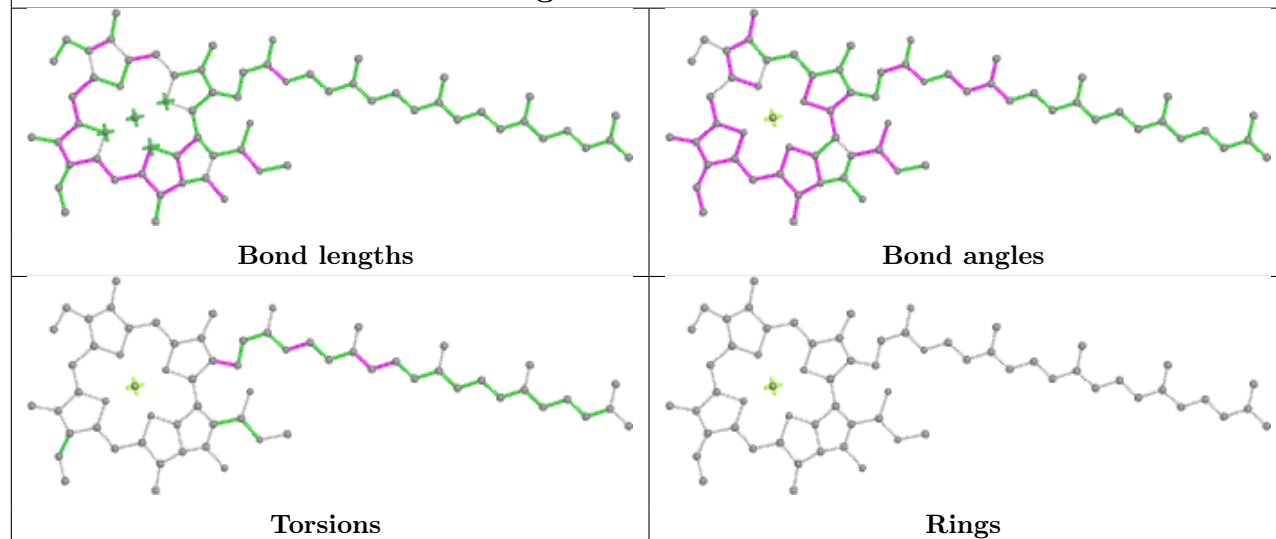
Ligand BCR L 206



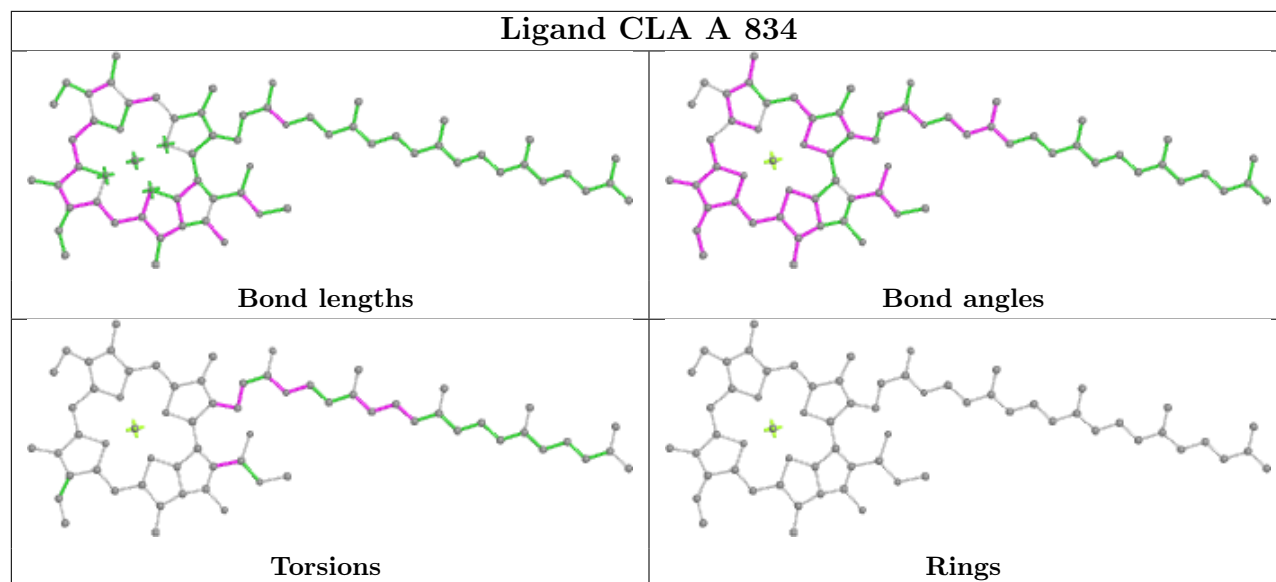
Ligand CLA a 837



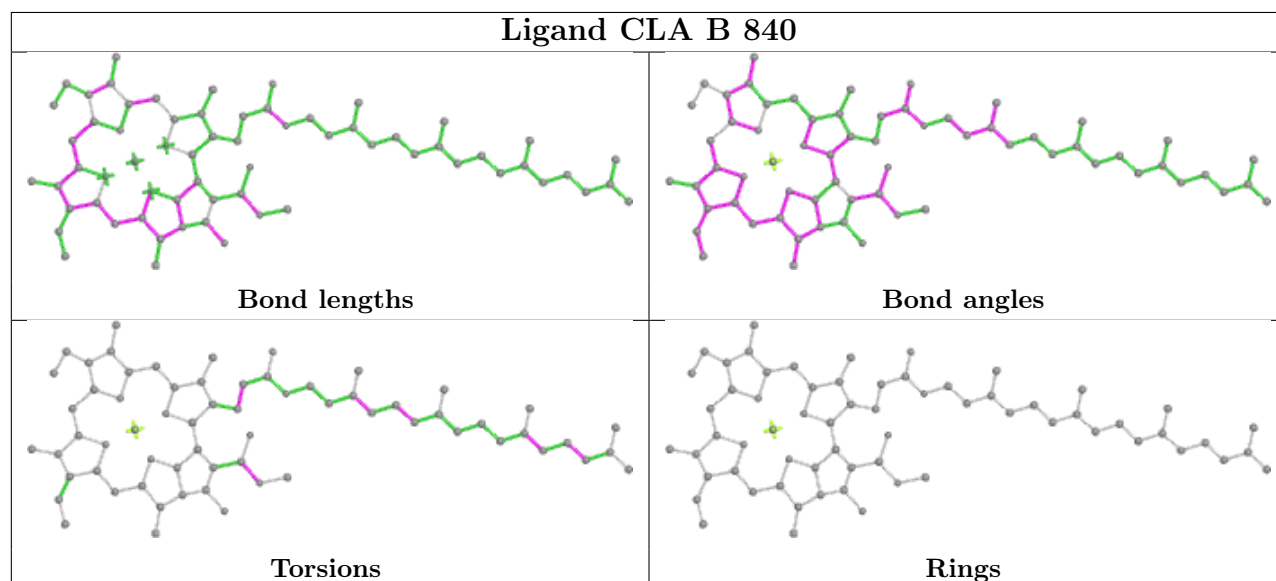
Ligand CLA a 833



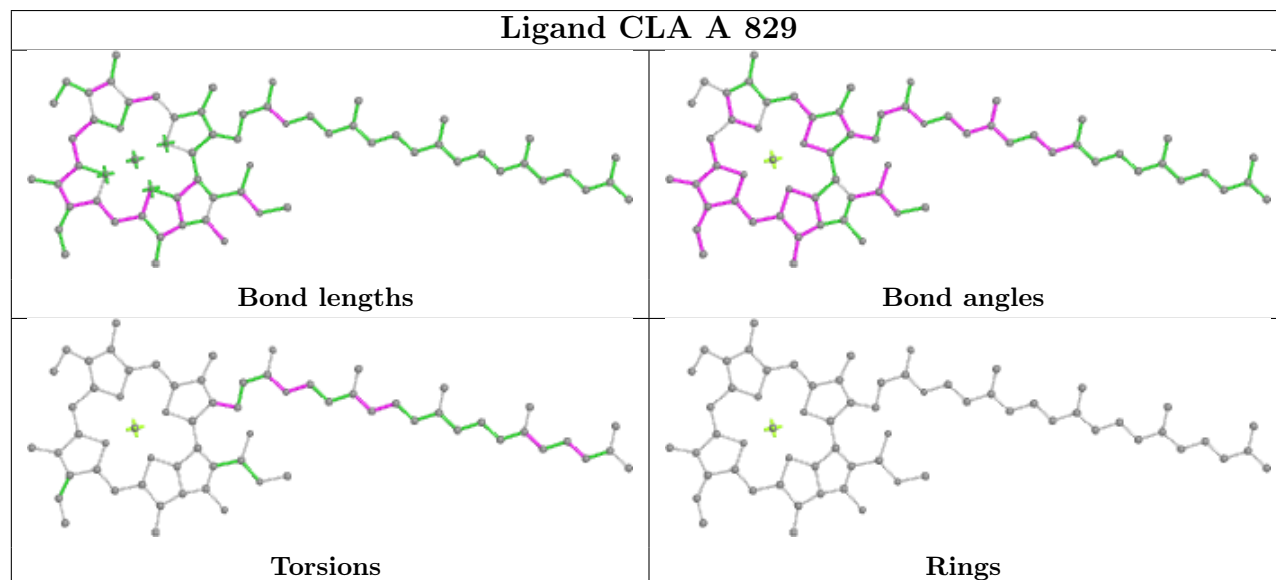
Ligand CLA A 834

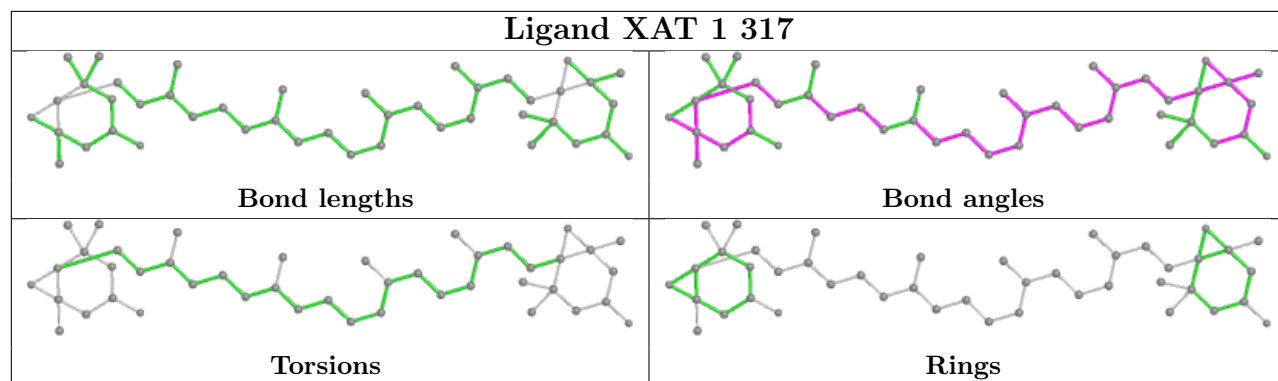
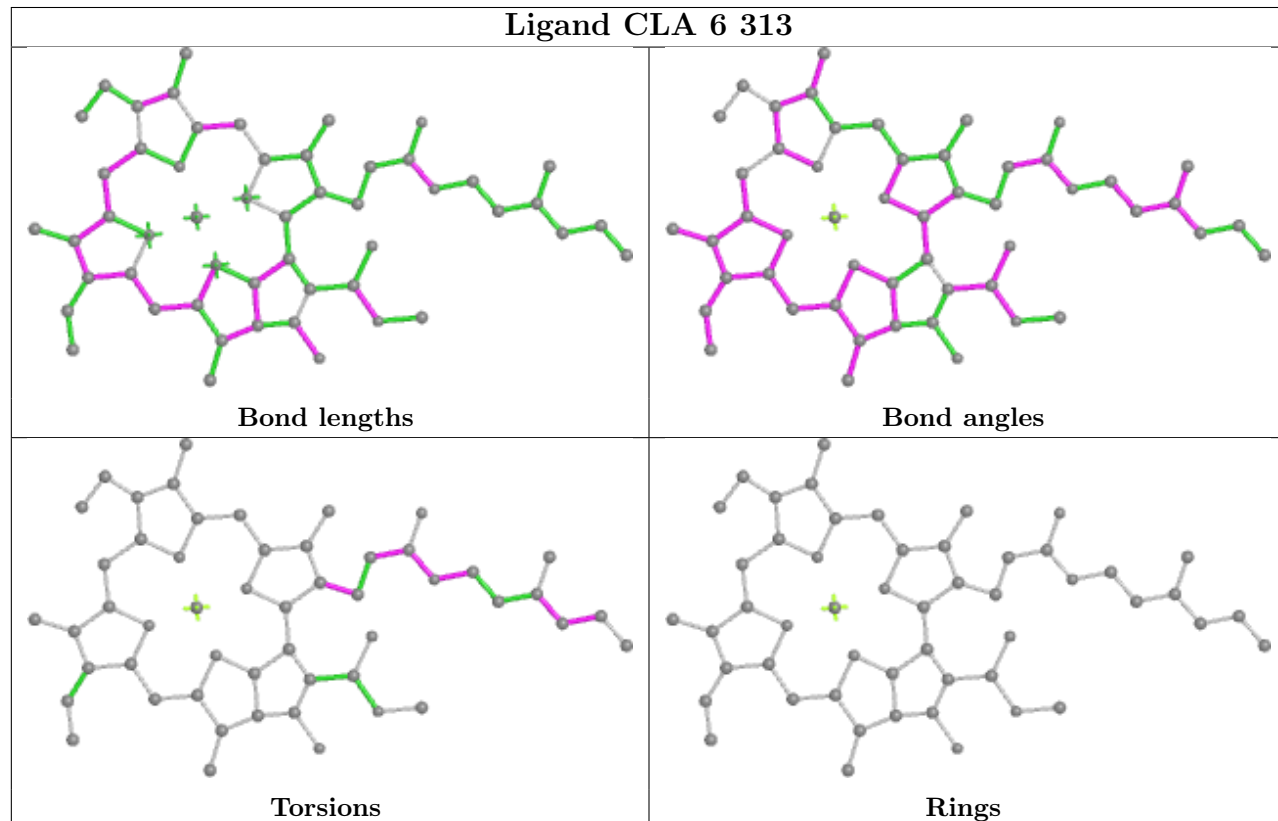


Ligand CLA B 840

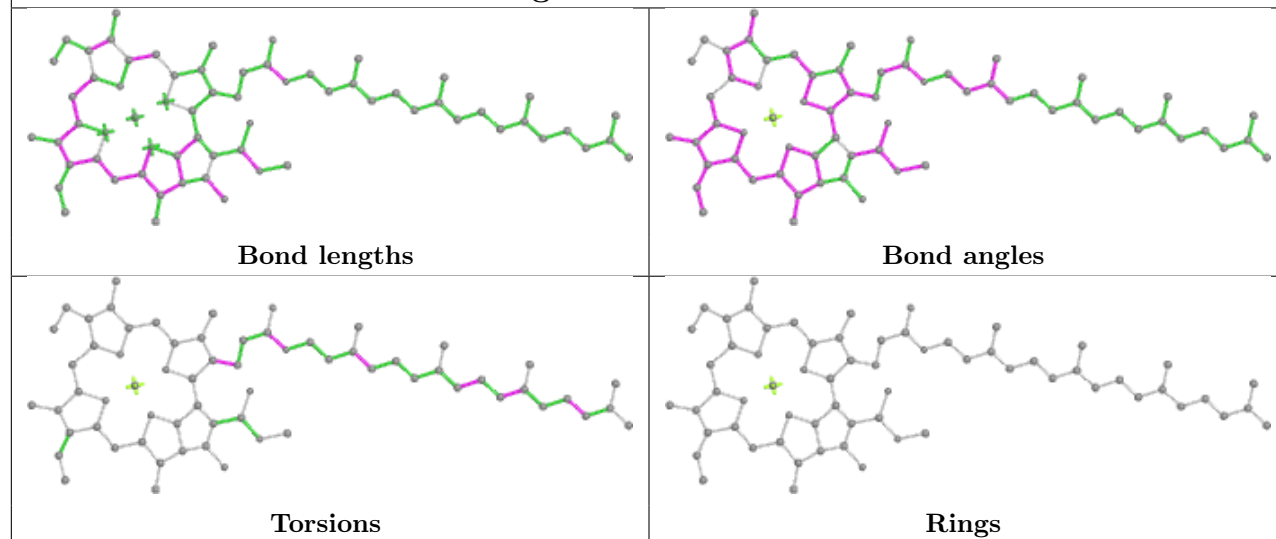


Ligand CLA A 829

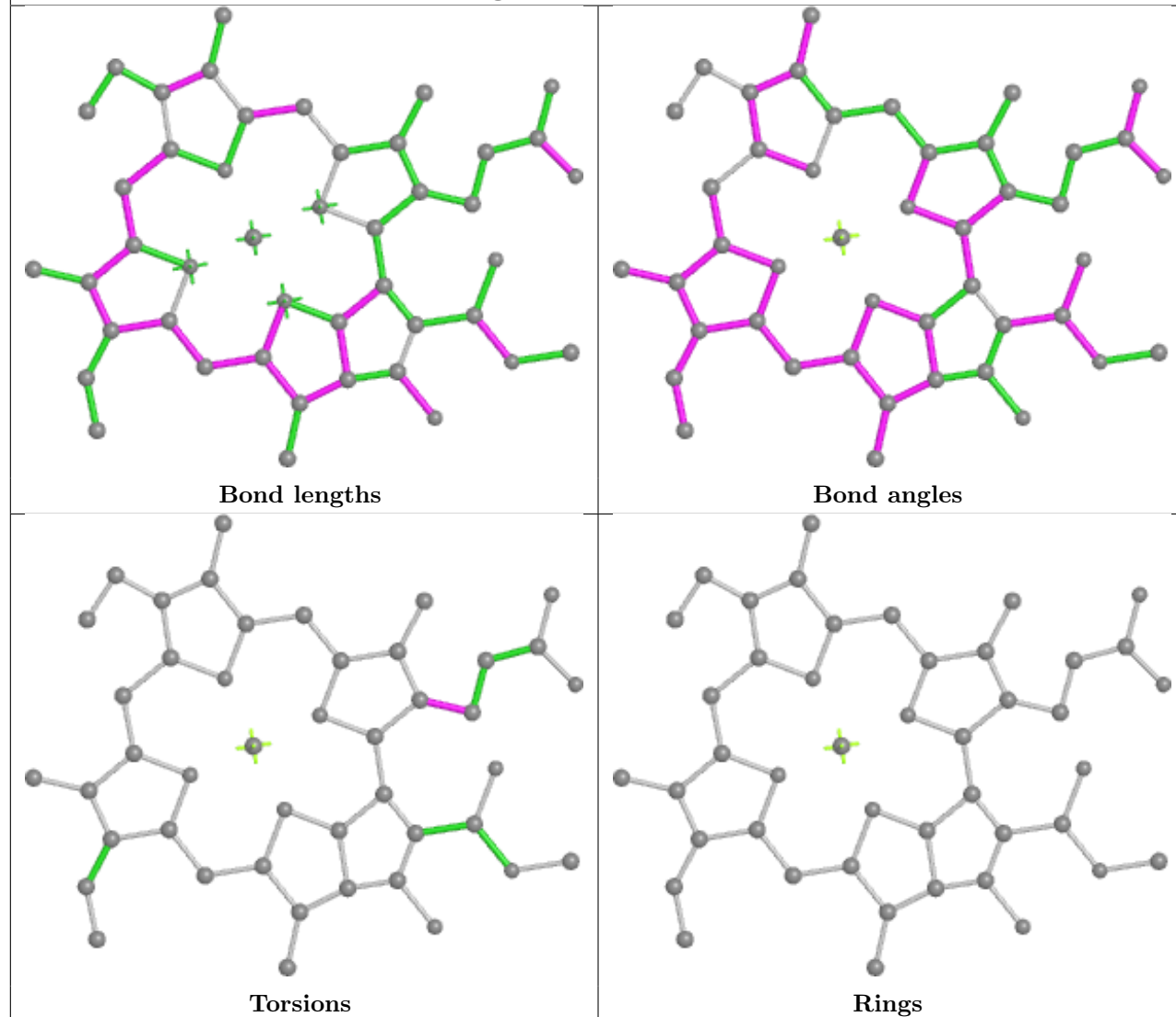


Ligand XAT 1 317**Ligand CLA 6 313**

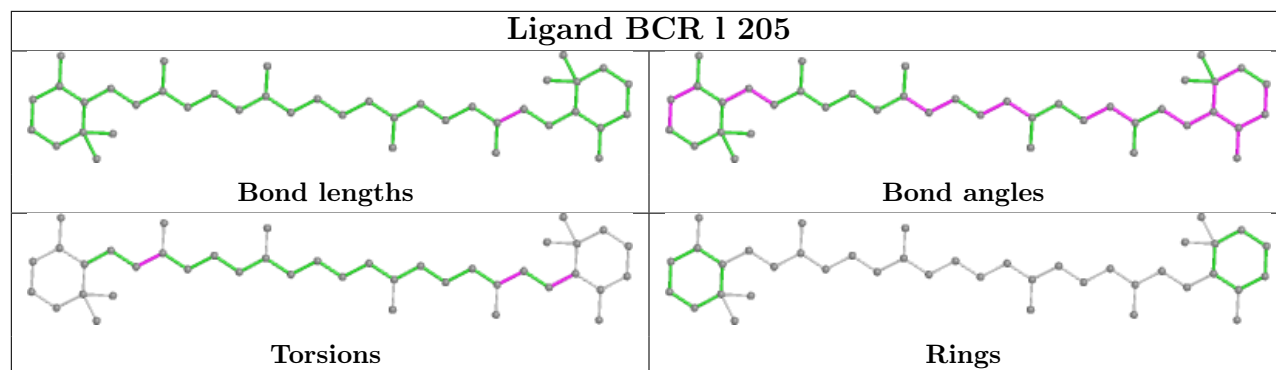
Ligand CLA B 819



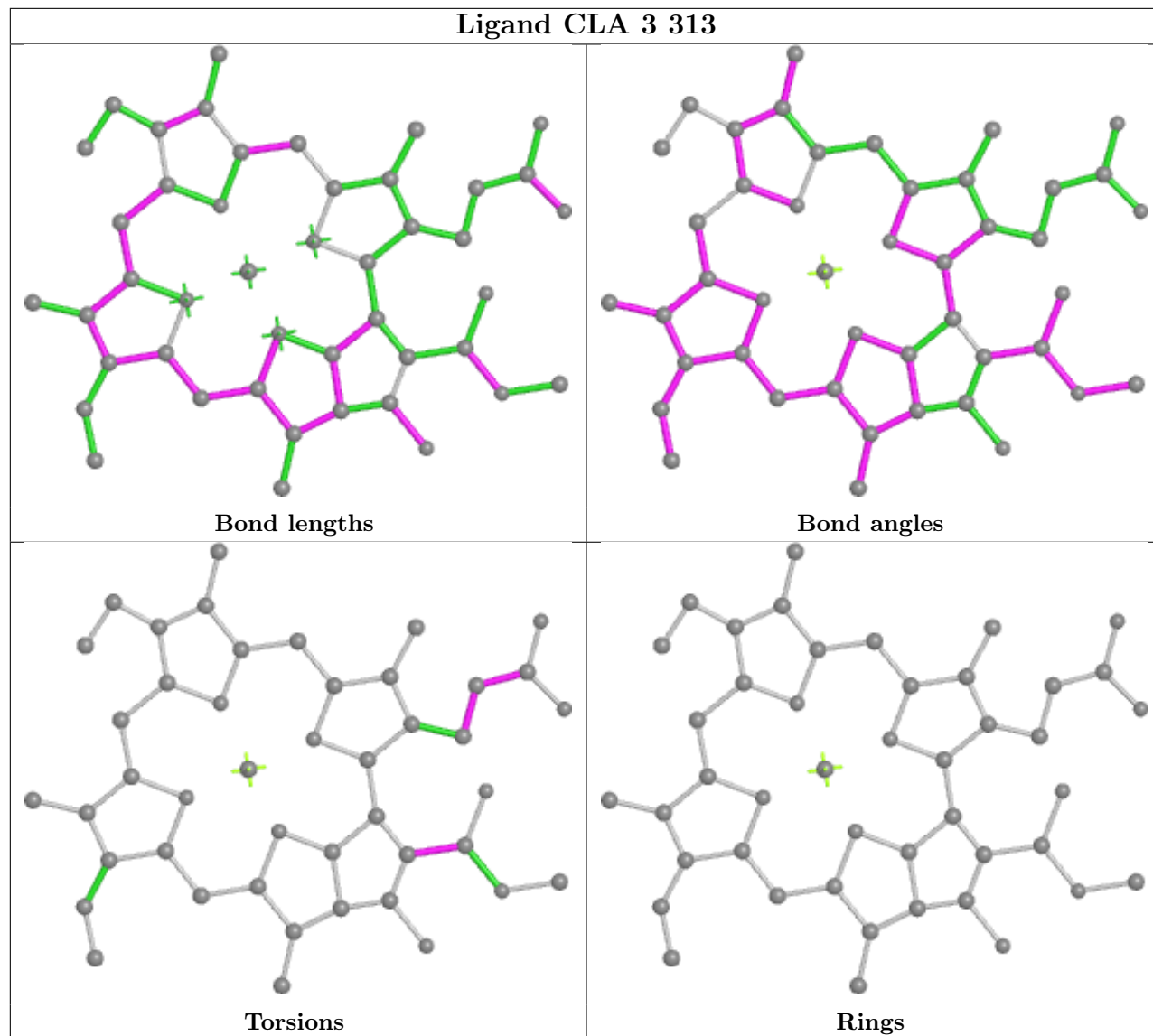
Ligand CLA A 815



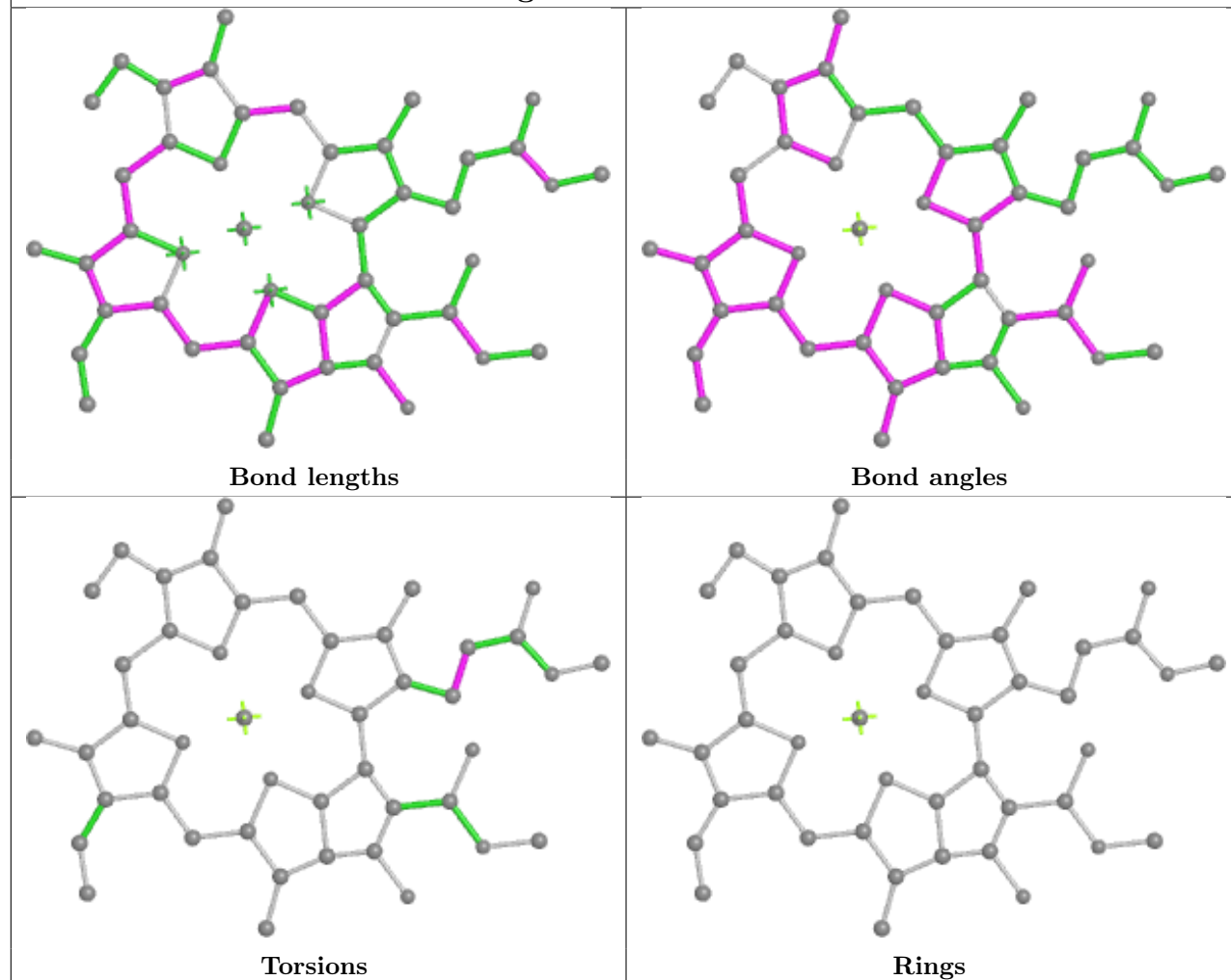
Ligand BCR 1 205



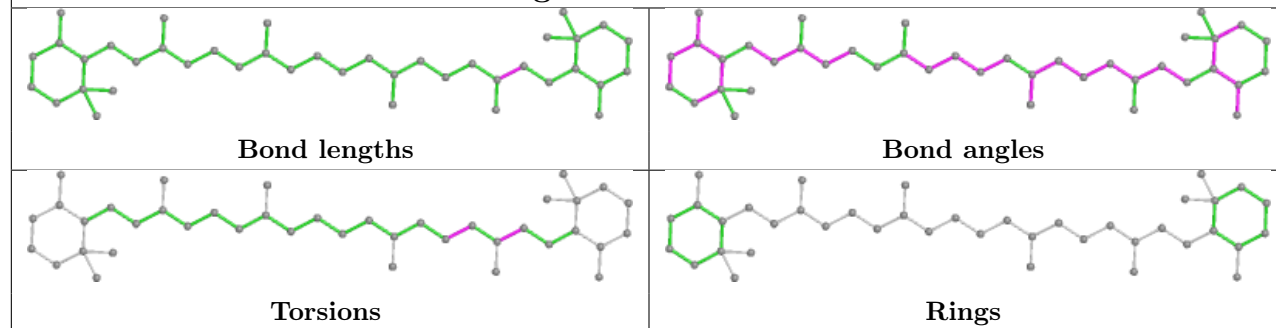
Ligand CLA 3 313



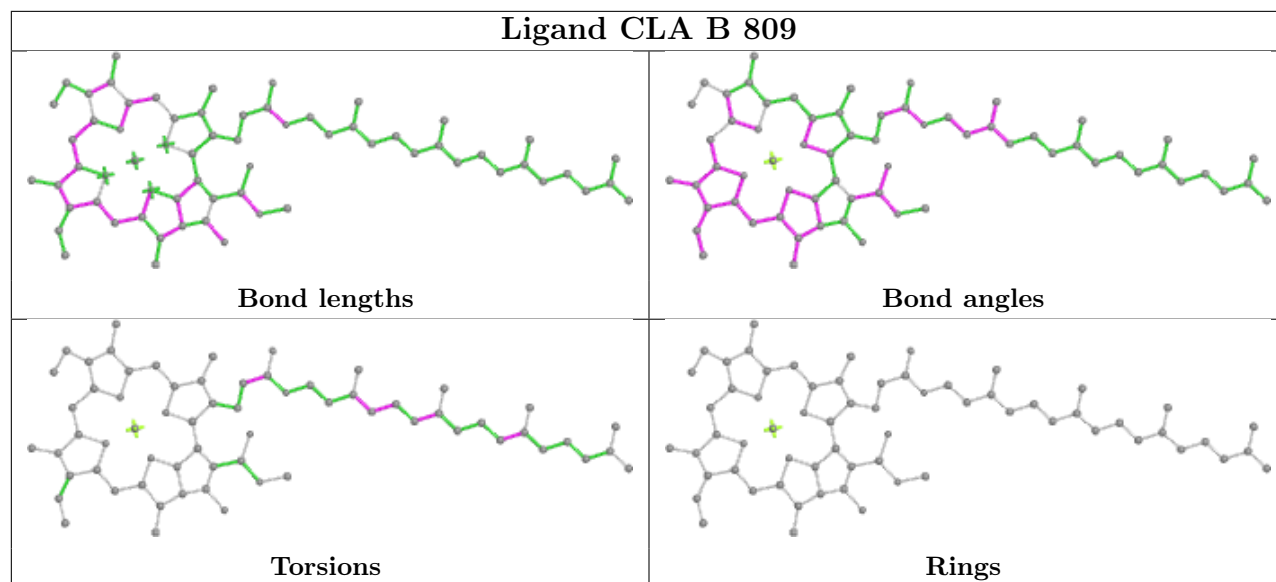
Ligand CLA 1 315



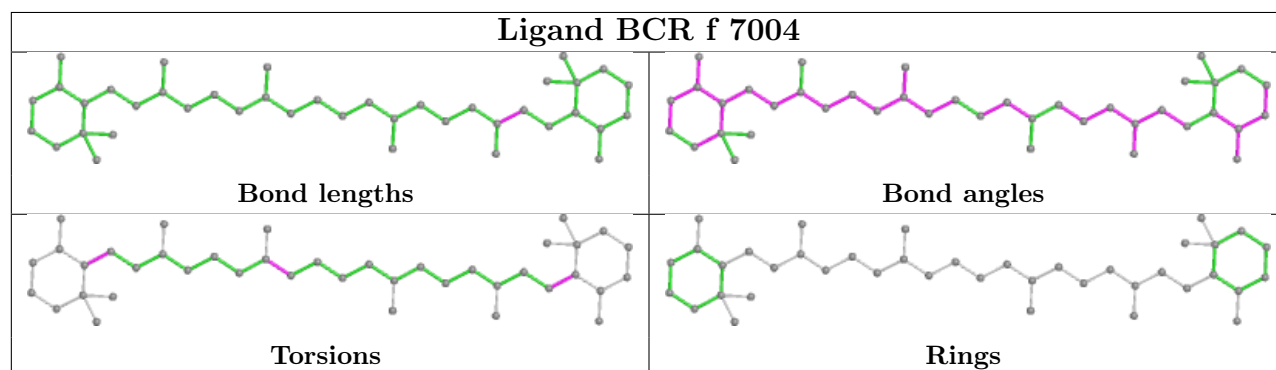
Ligand BCR b 847



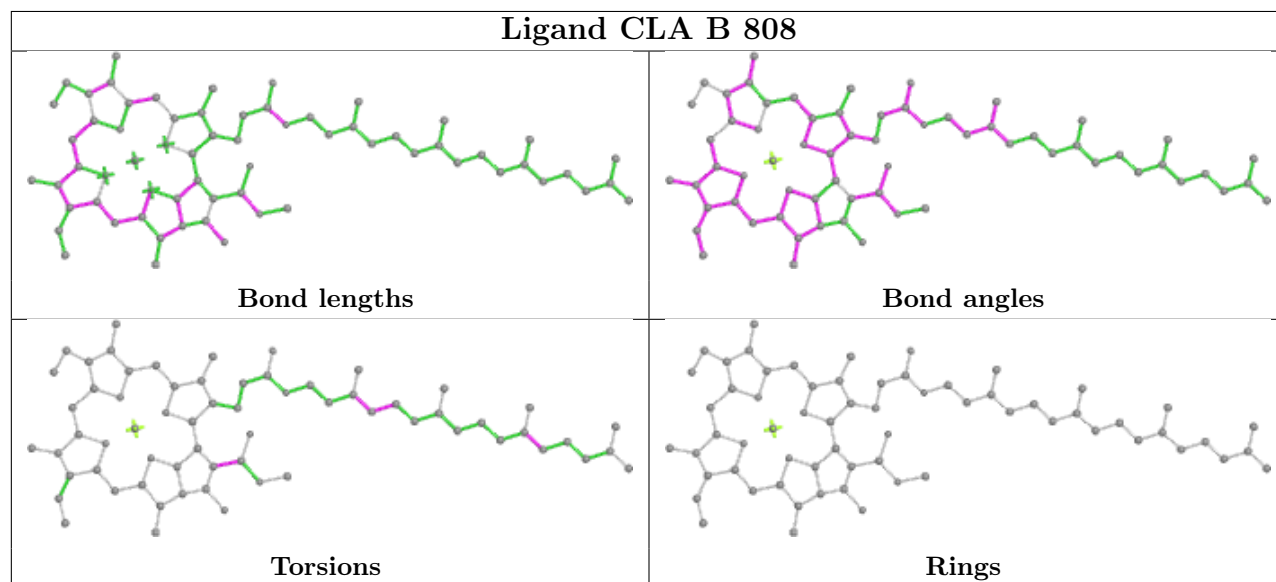
Ligand CLA B 809

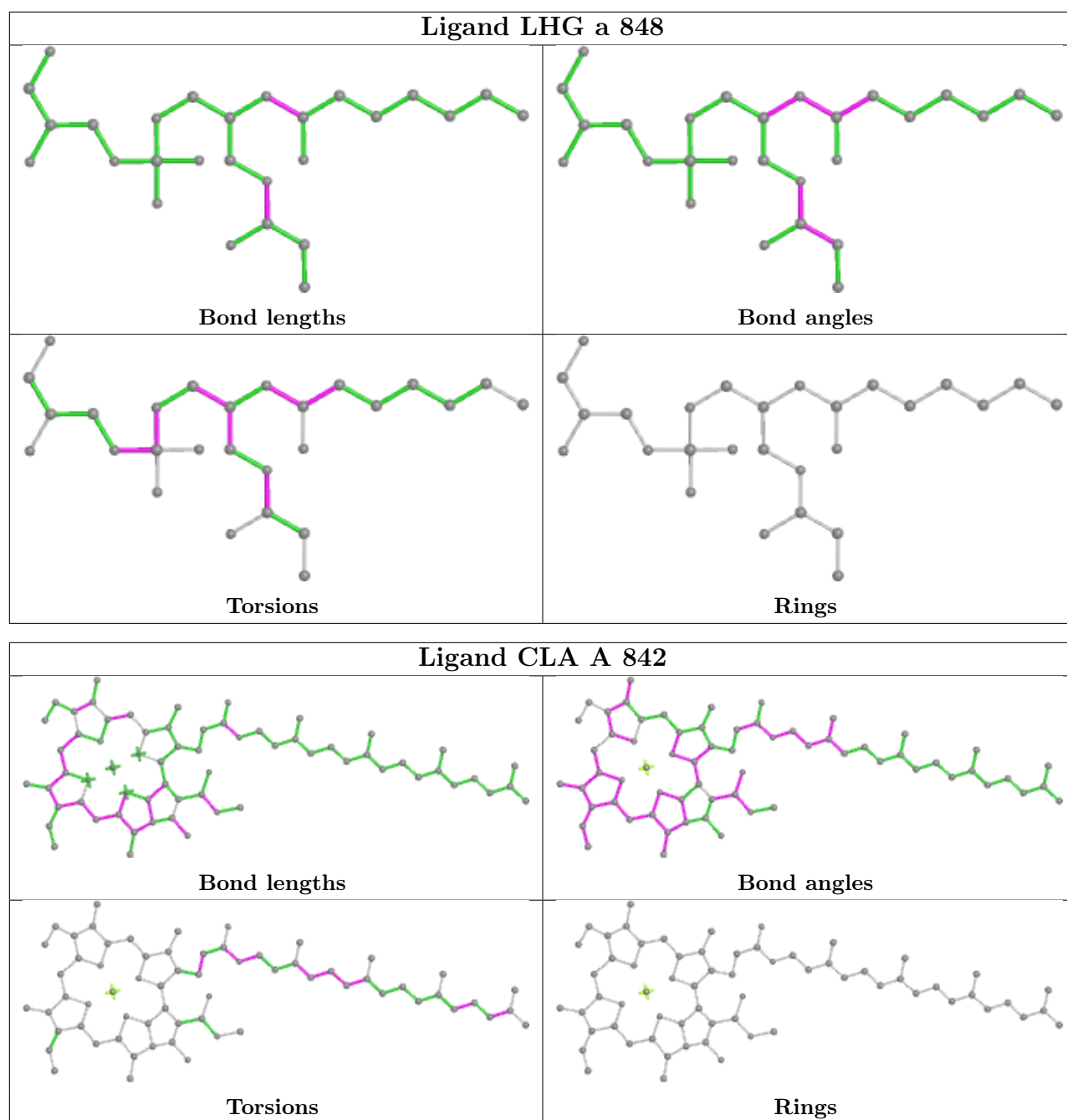


Ligand BCR f 7004

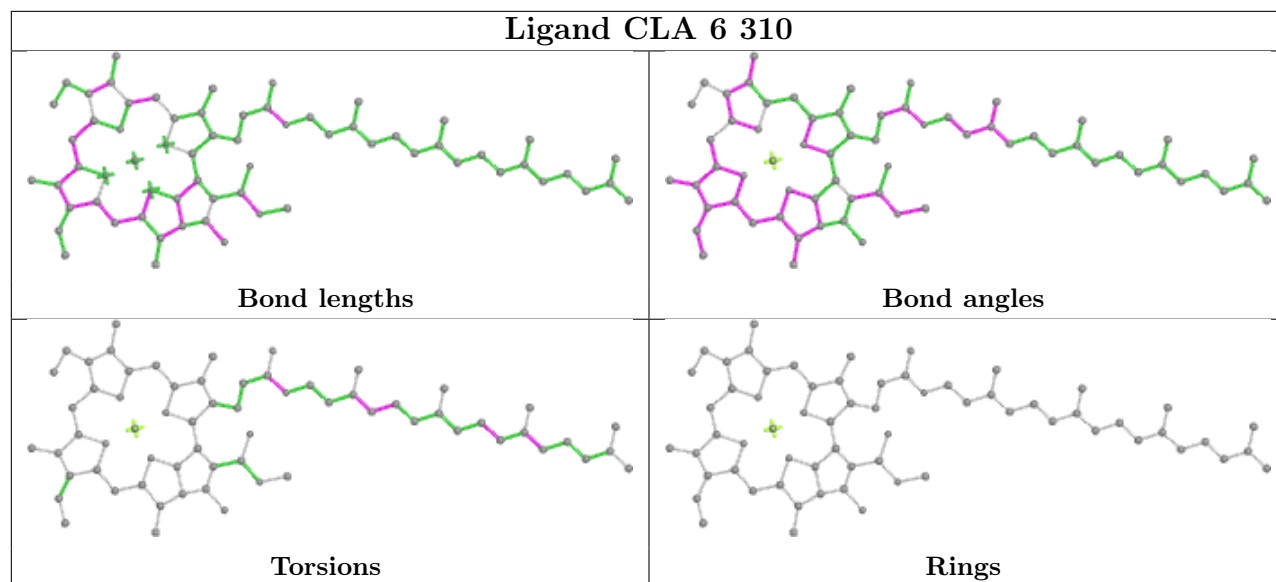


Ligand CLA B 808

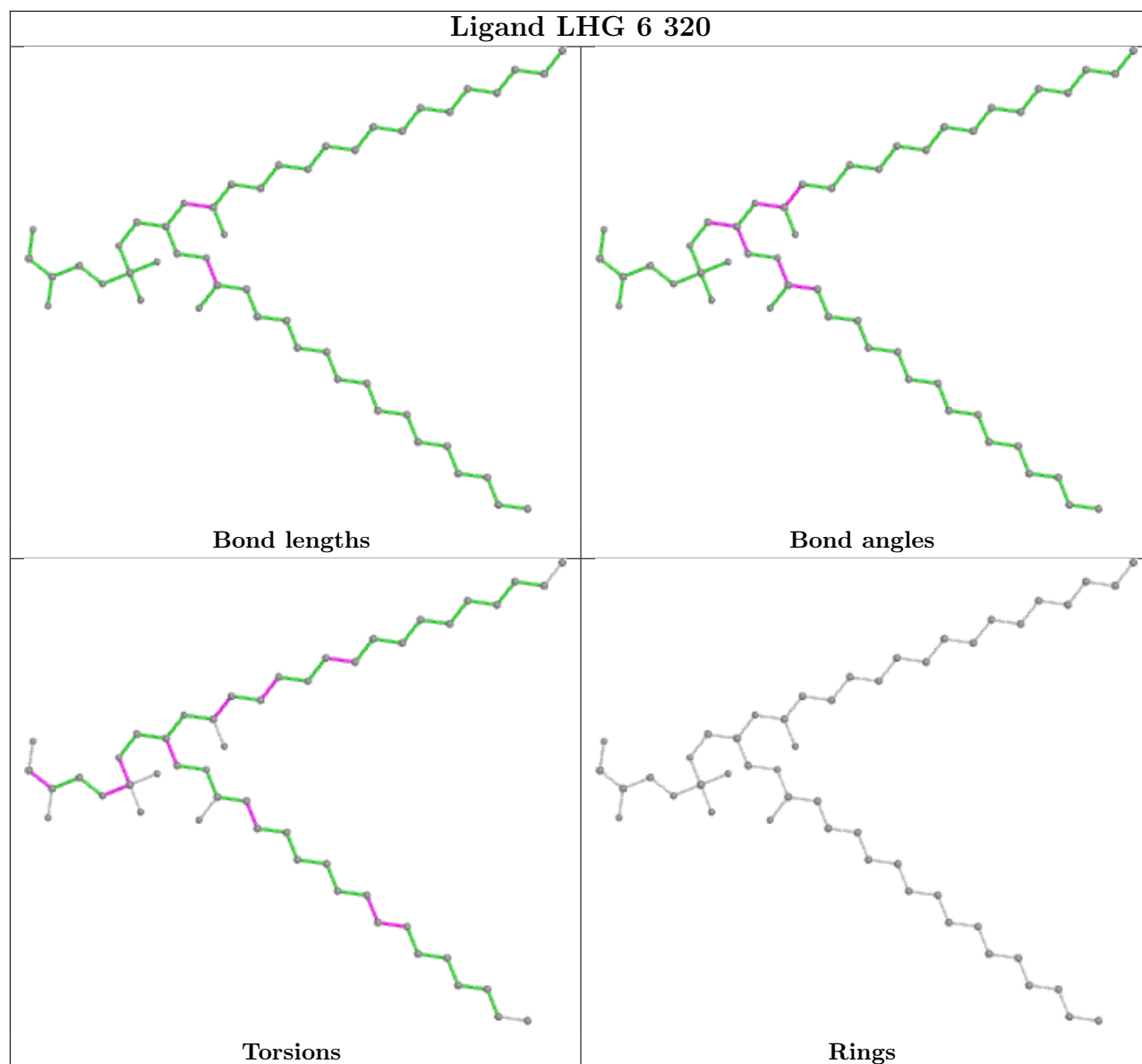


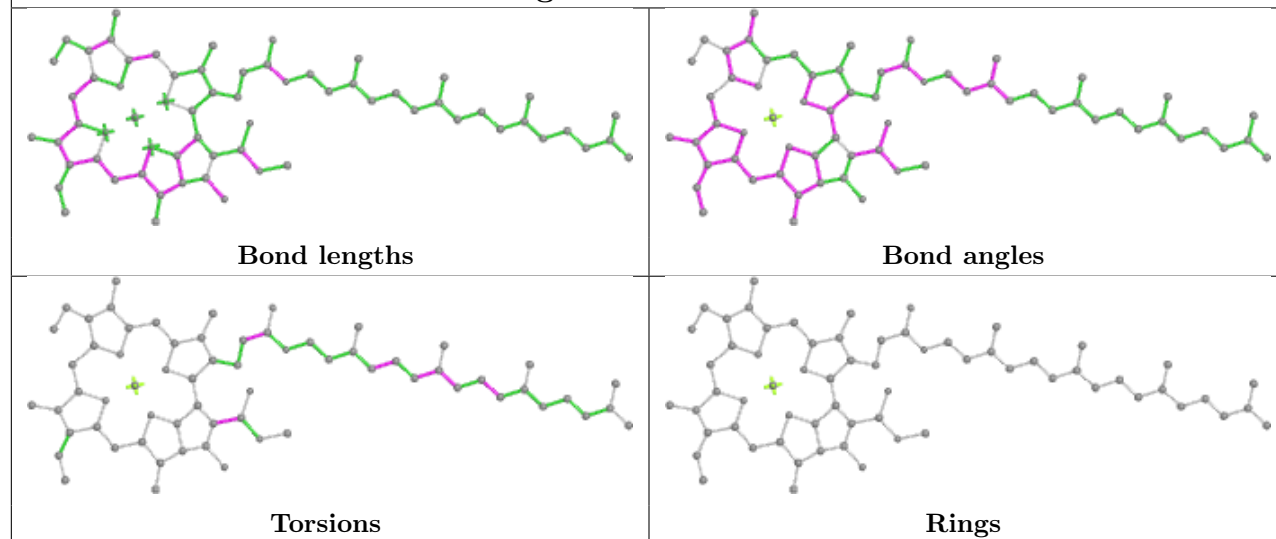
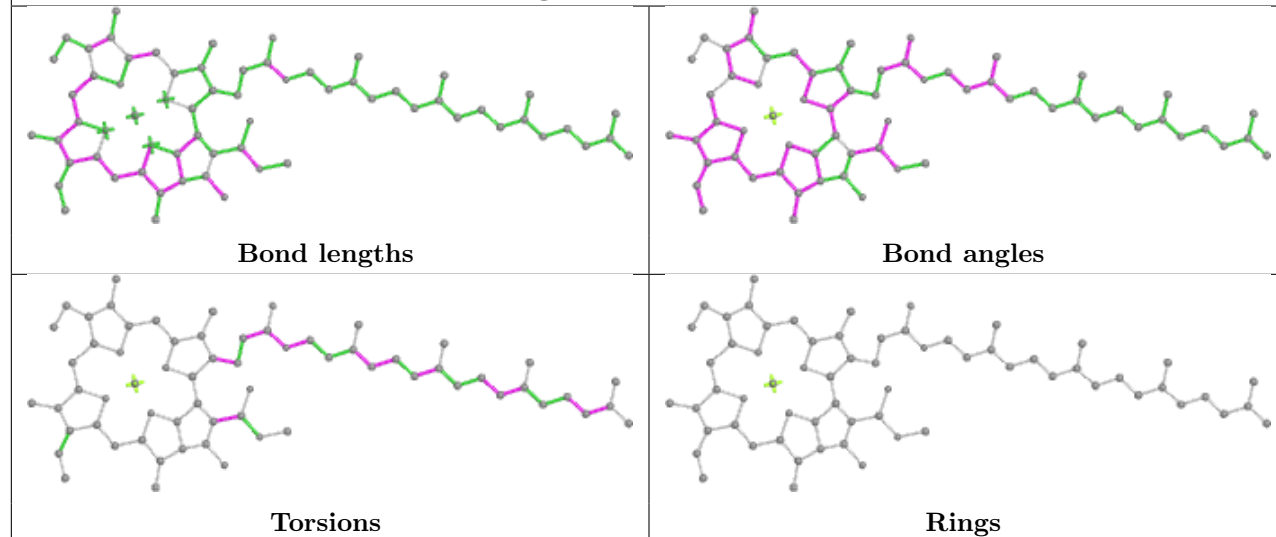


Ligand CLA 6 310

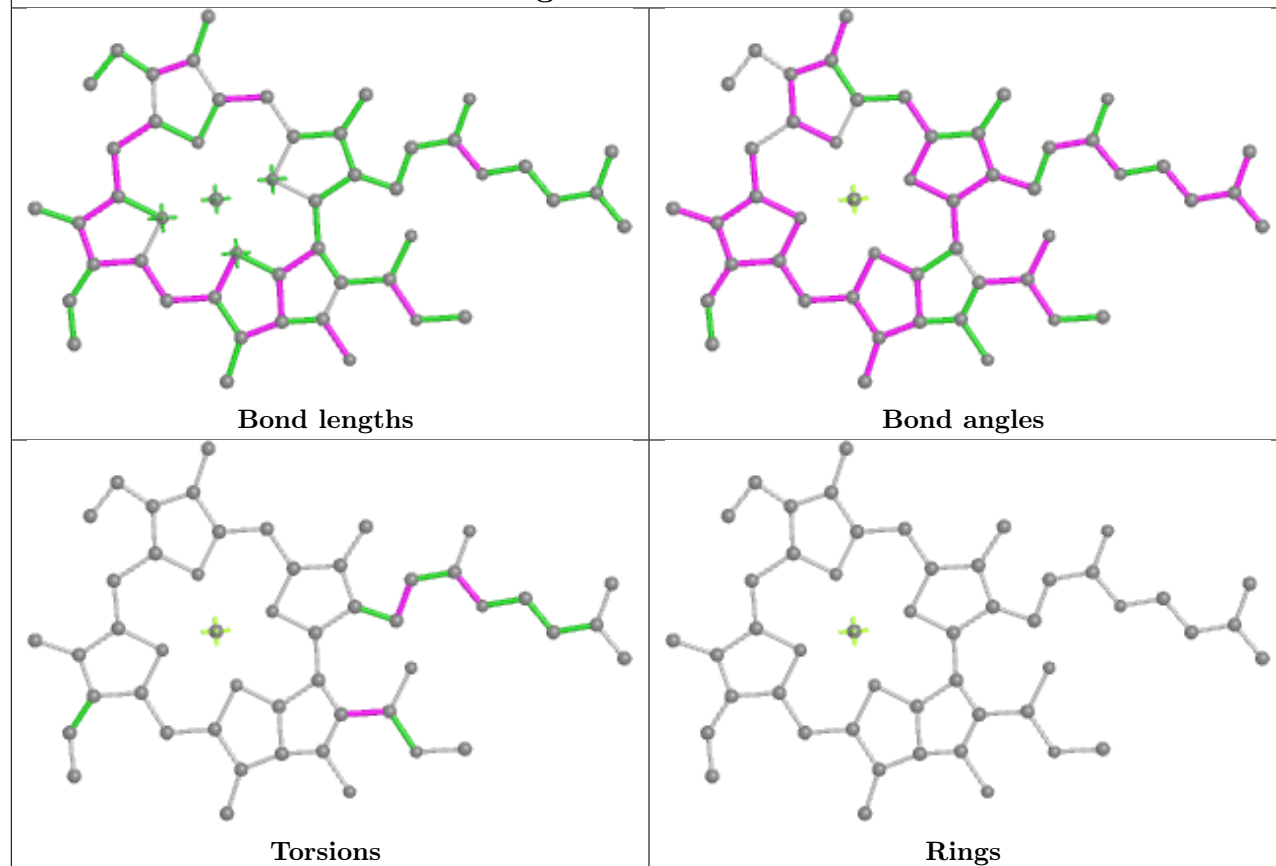


Ligand LHG 6 320

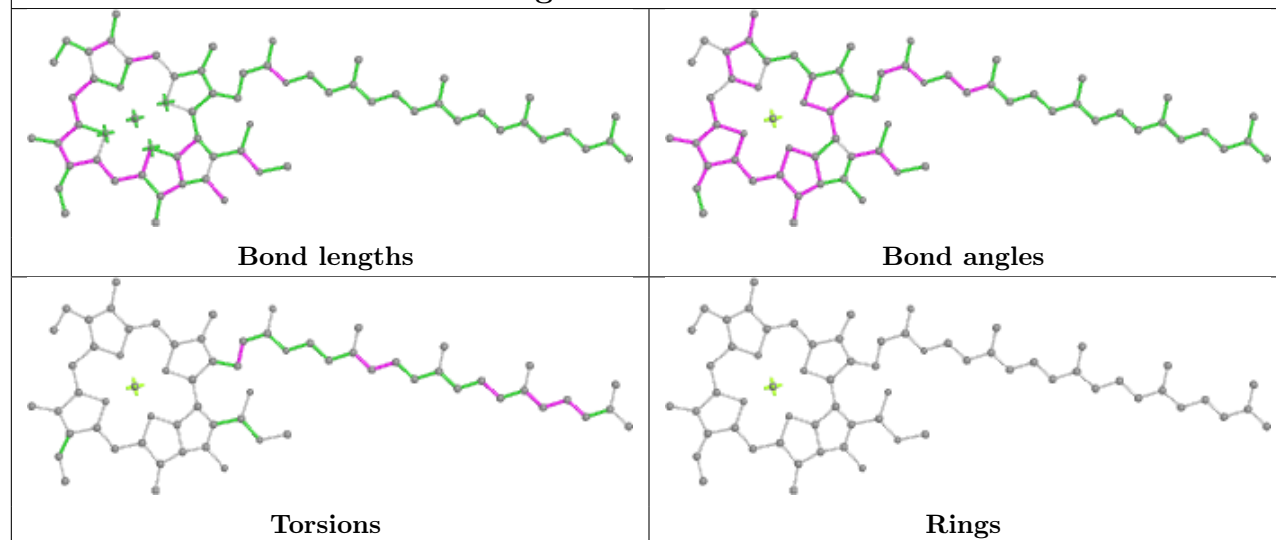


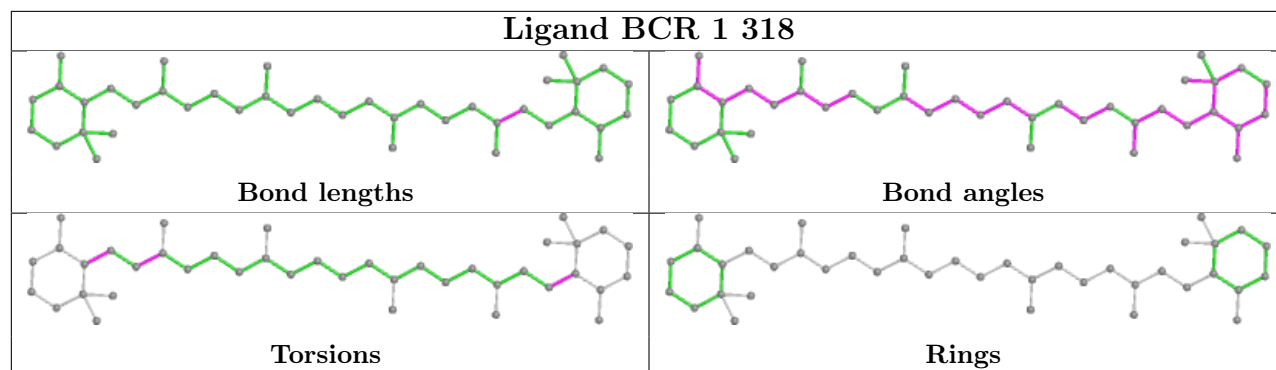
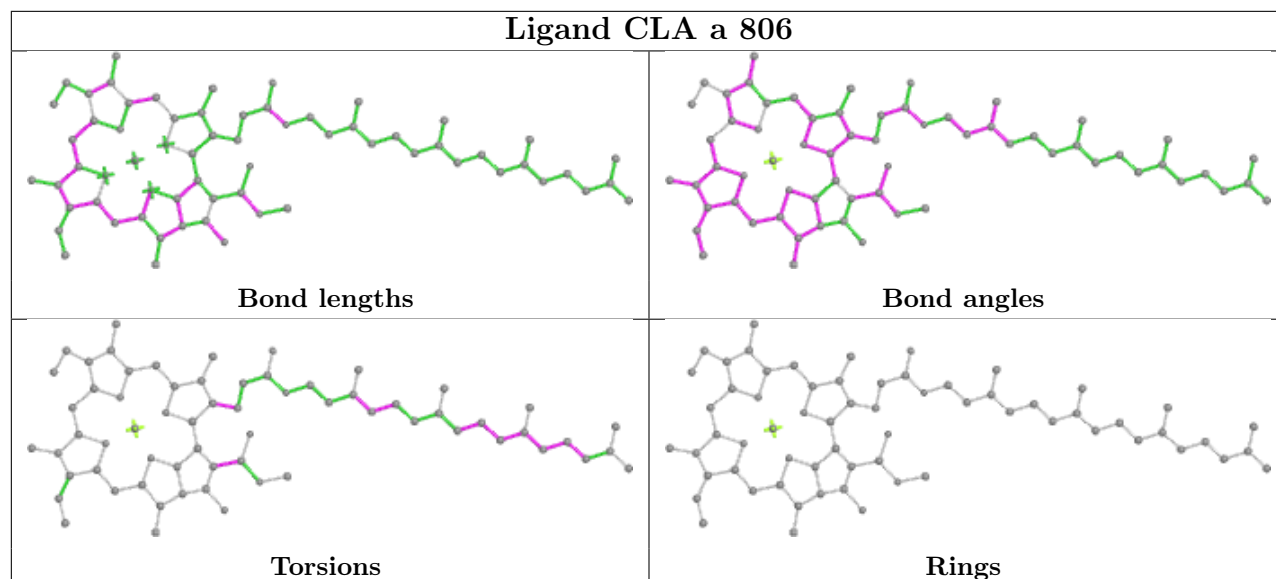
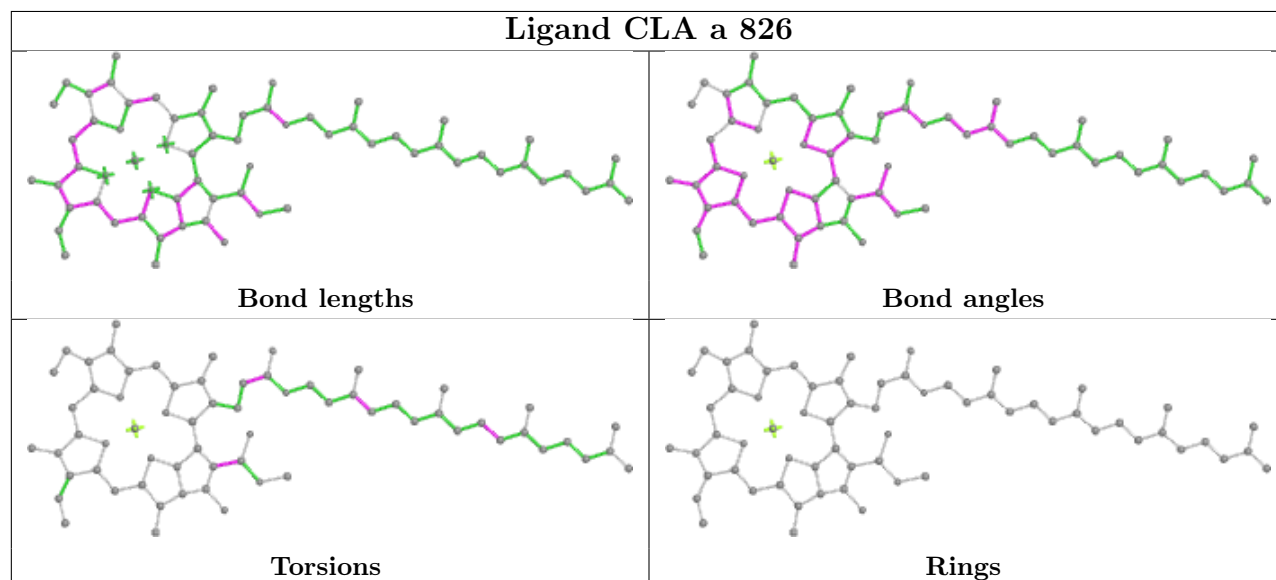
Ligand CLA 6 305**Ligand CLA b 805**

Ligand CLA a 832

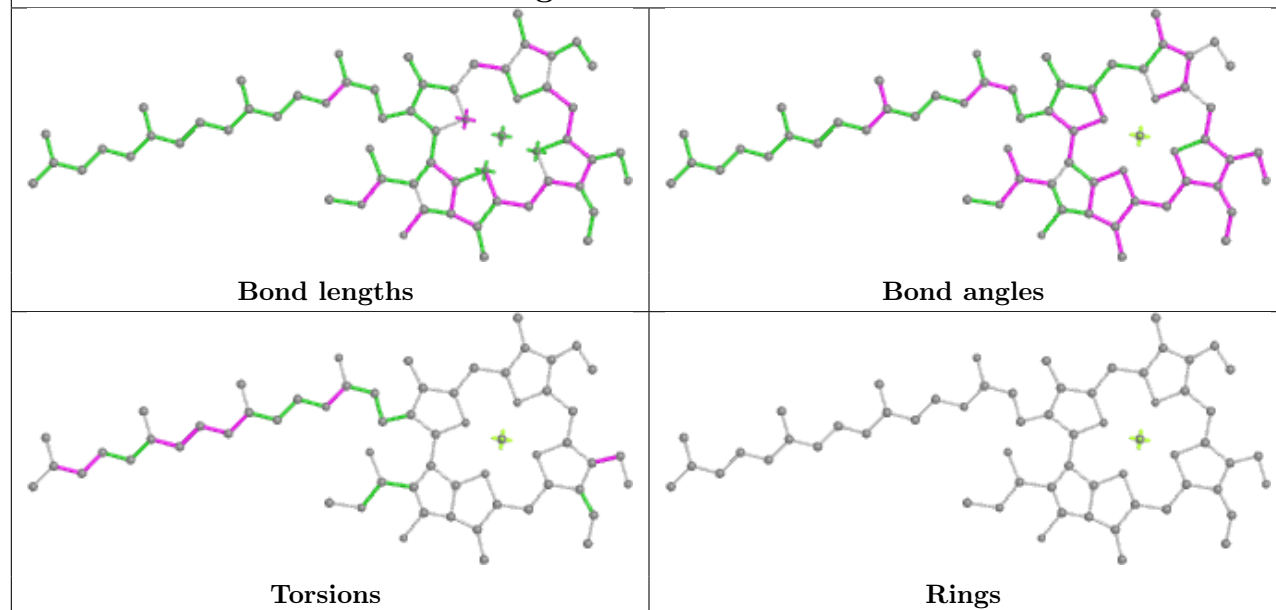


Ligand CLA b 839

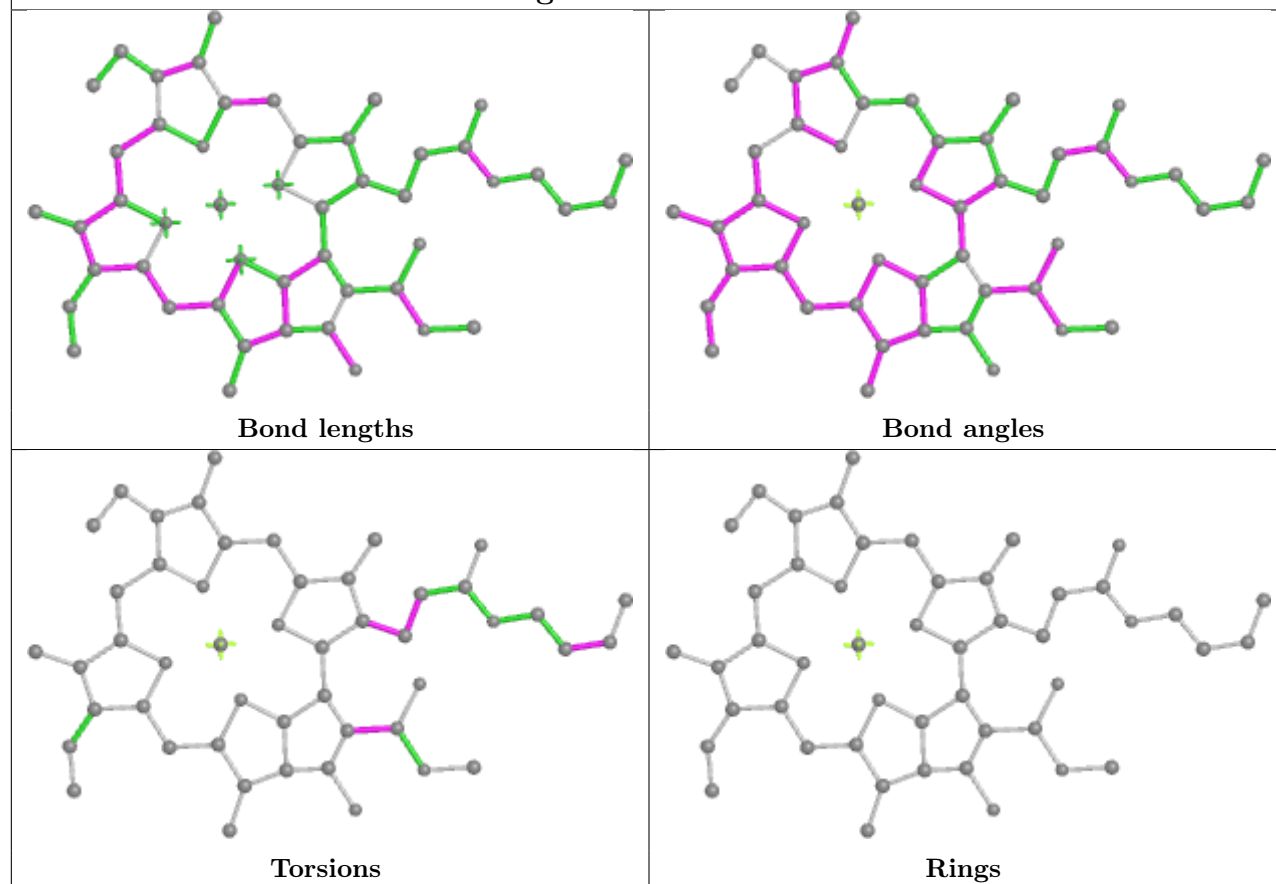


Ligand BCR 1 318**Ligand CLA a 806****Ligand CLA a 826**

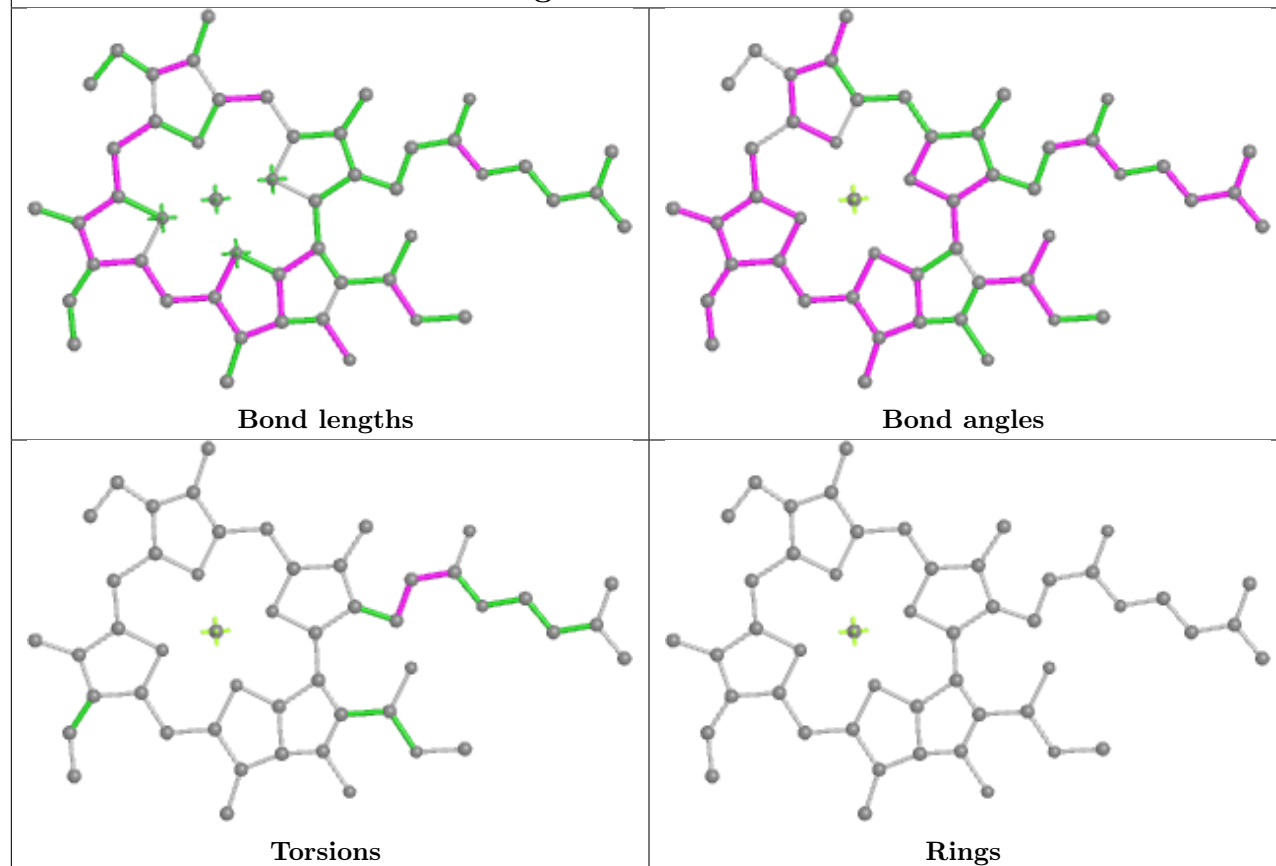
Ligand CHL 2 601



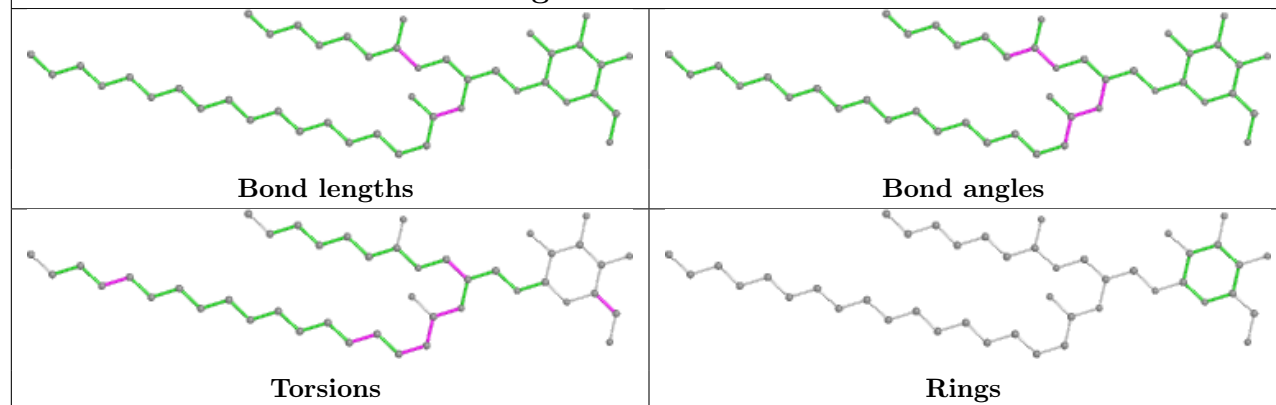
Ligand CLA a 823



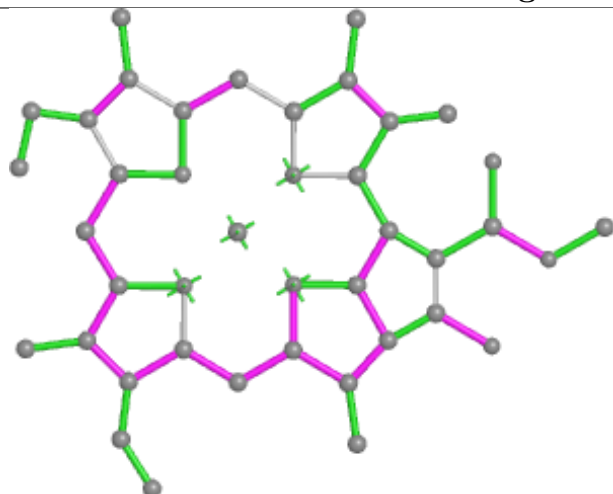
Ligand CLA L 204



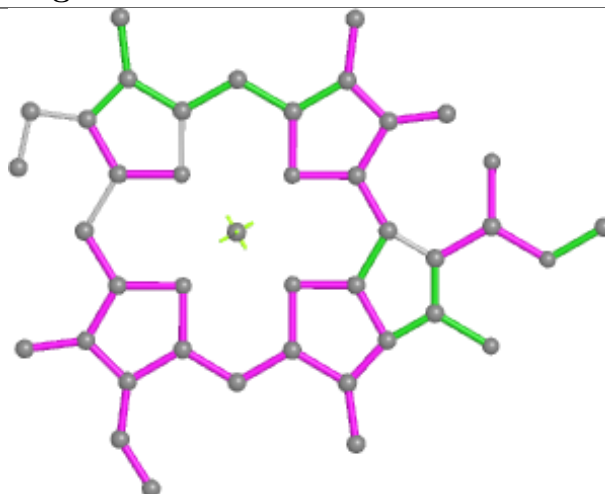
Ligand LMG 4 619



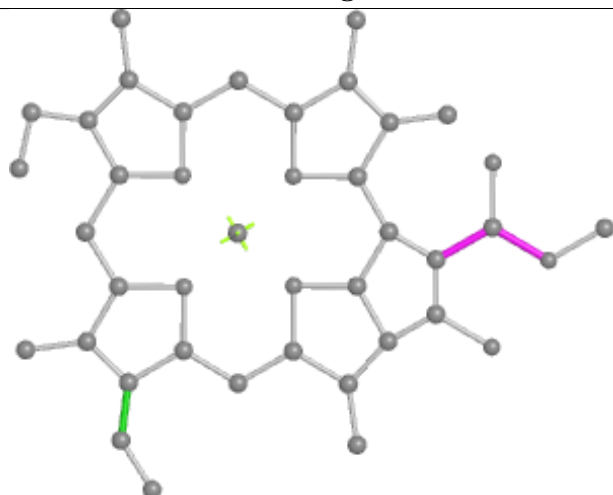
Ligand CLA g 101



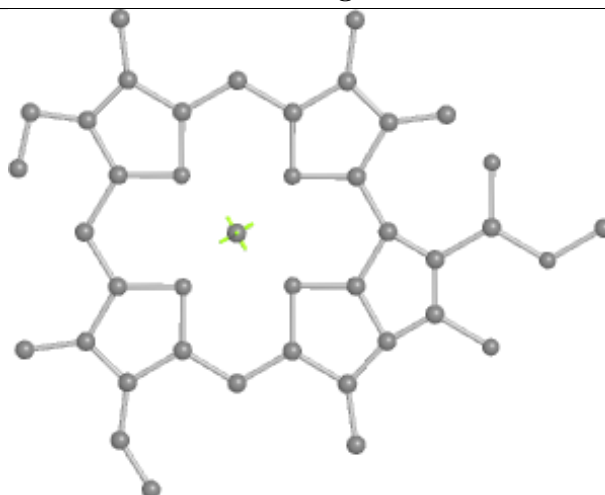
Bond lengths



Bond angles

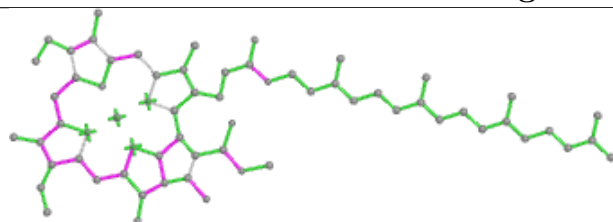


Torsions

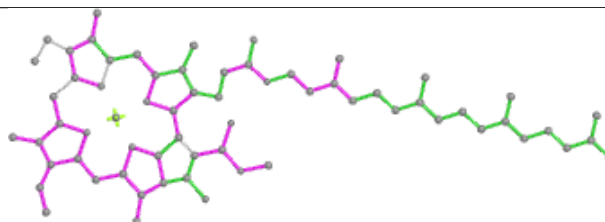


Rings

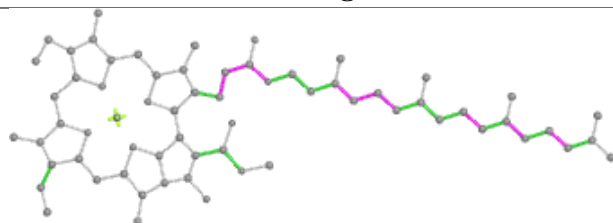
Ligand CLA a 841



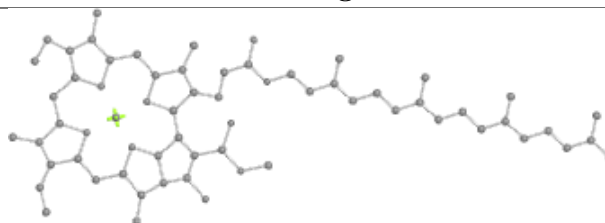
Bond lengths



Bond angles

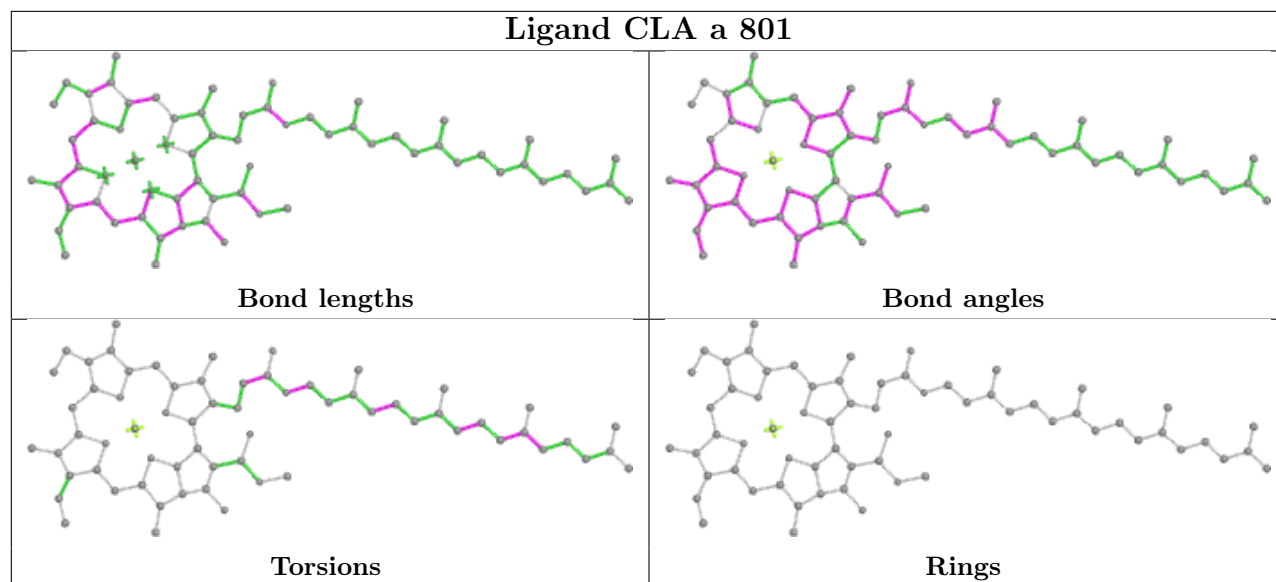


Torsions

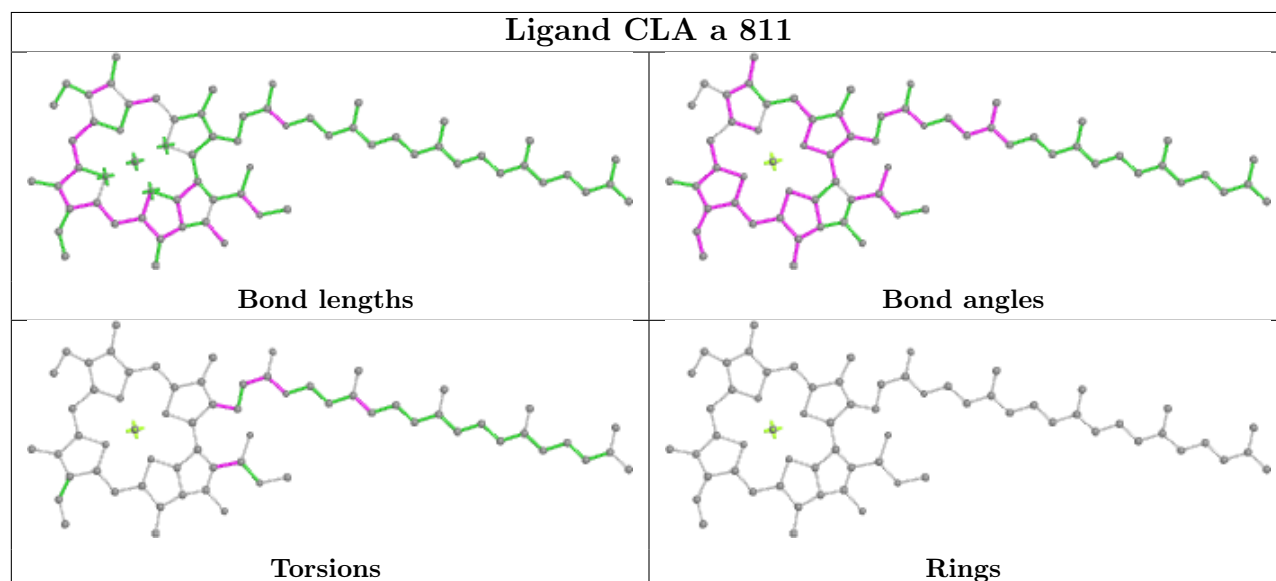


Rings

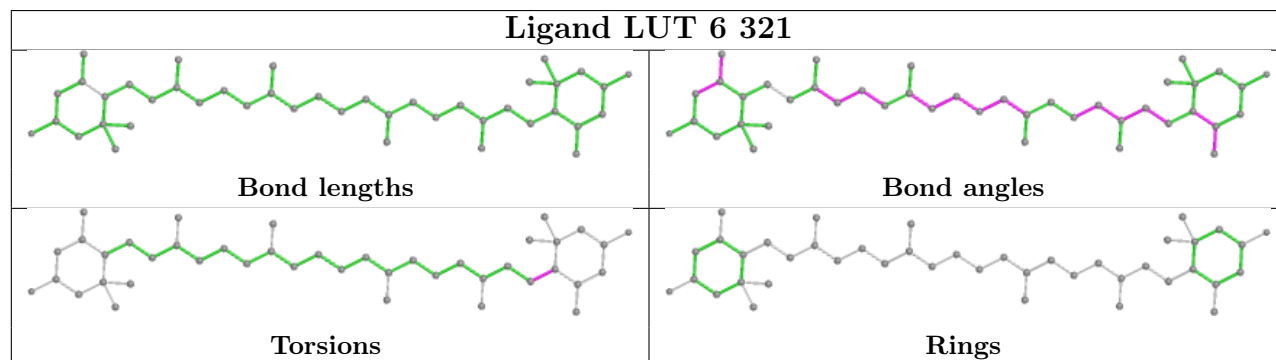
Ligand CLA a 801



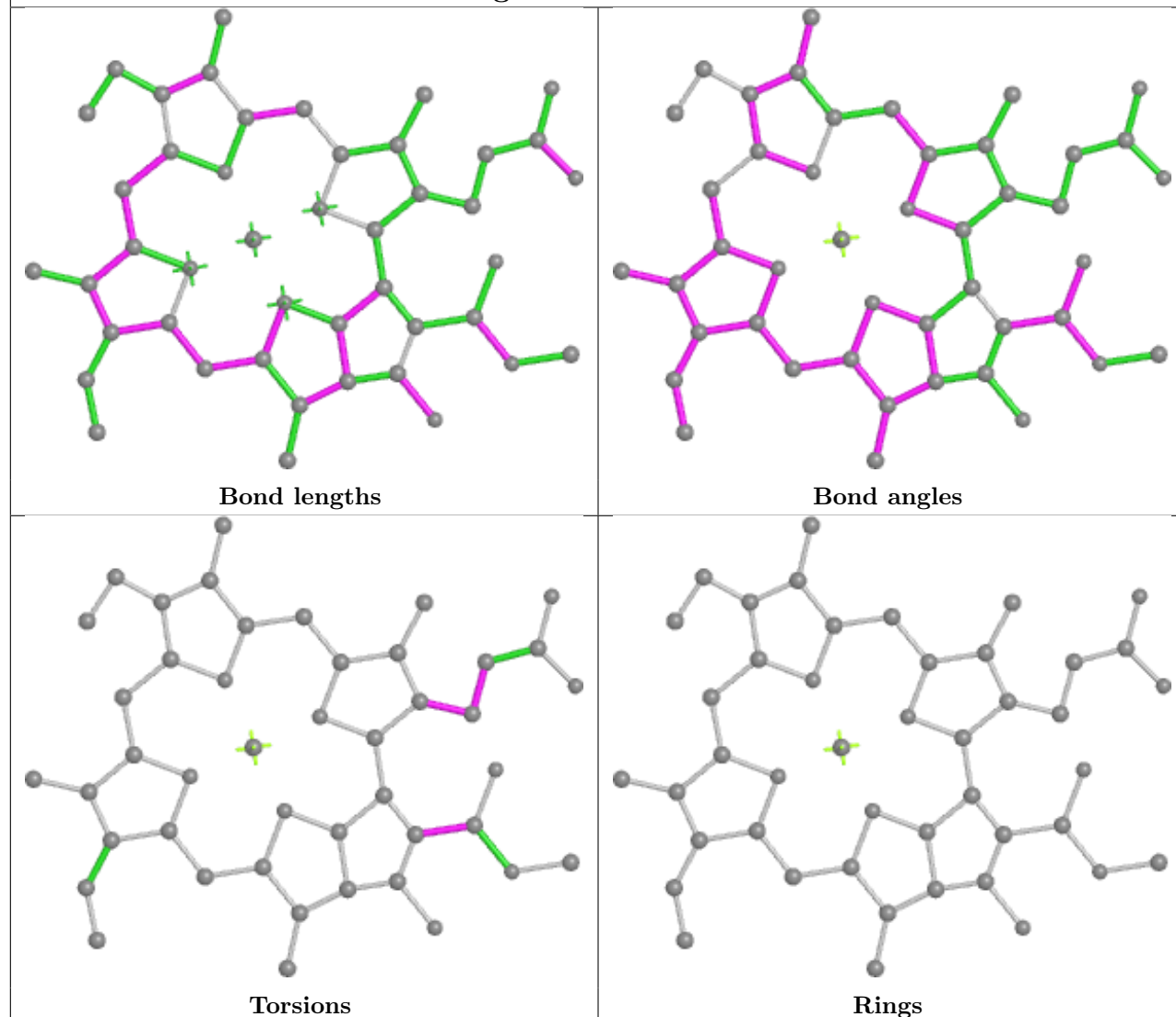
Ligand CLA a 811



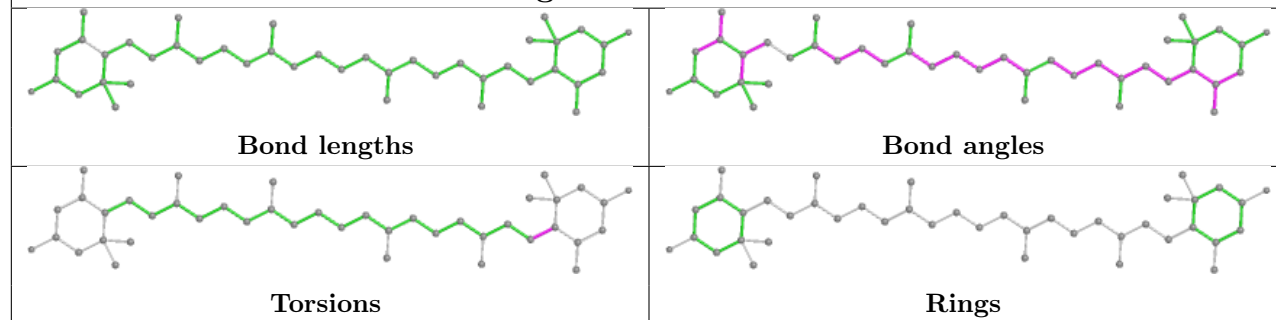
Ligand LUT 6 321

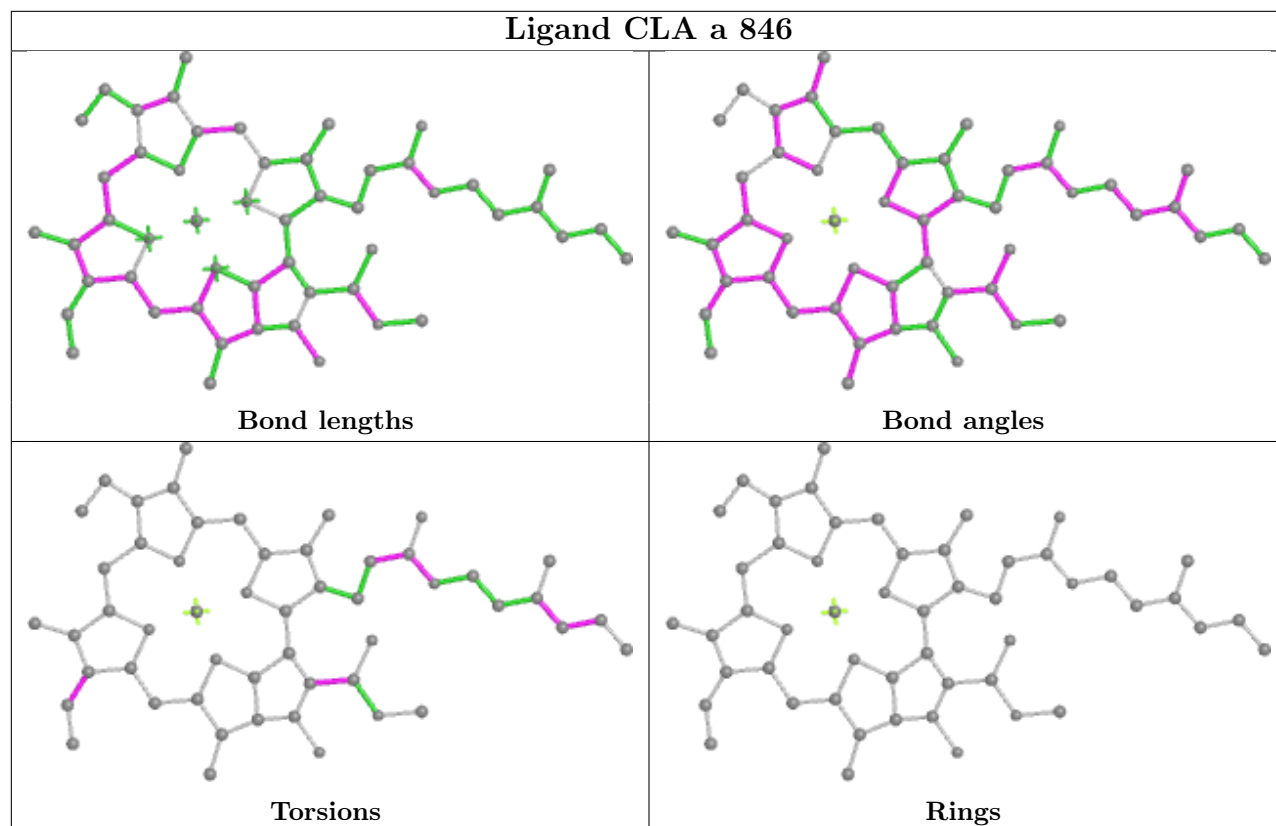
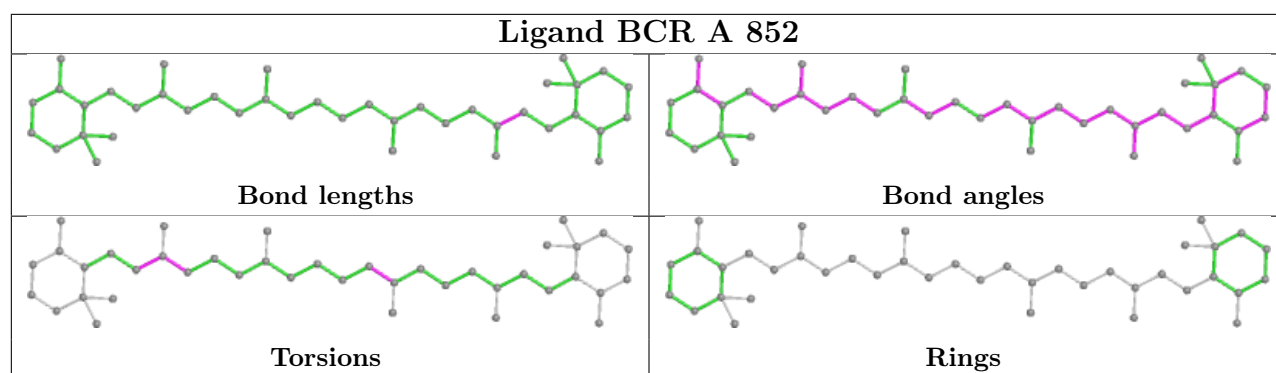


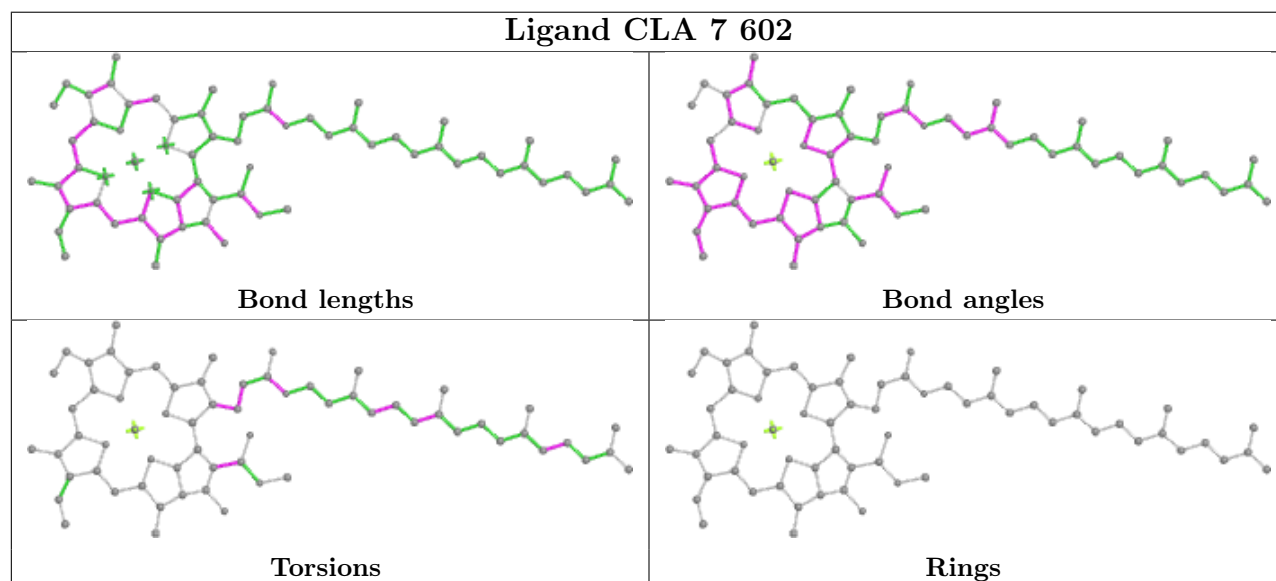
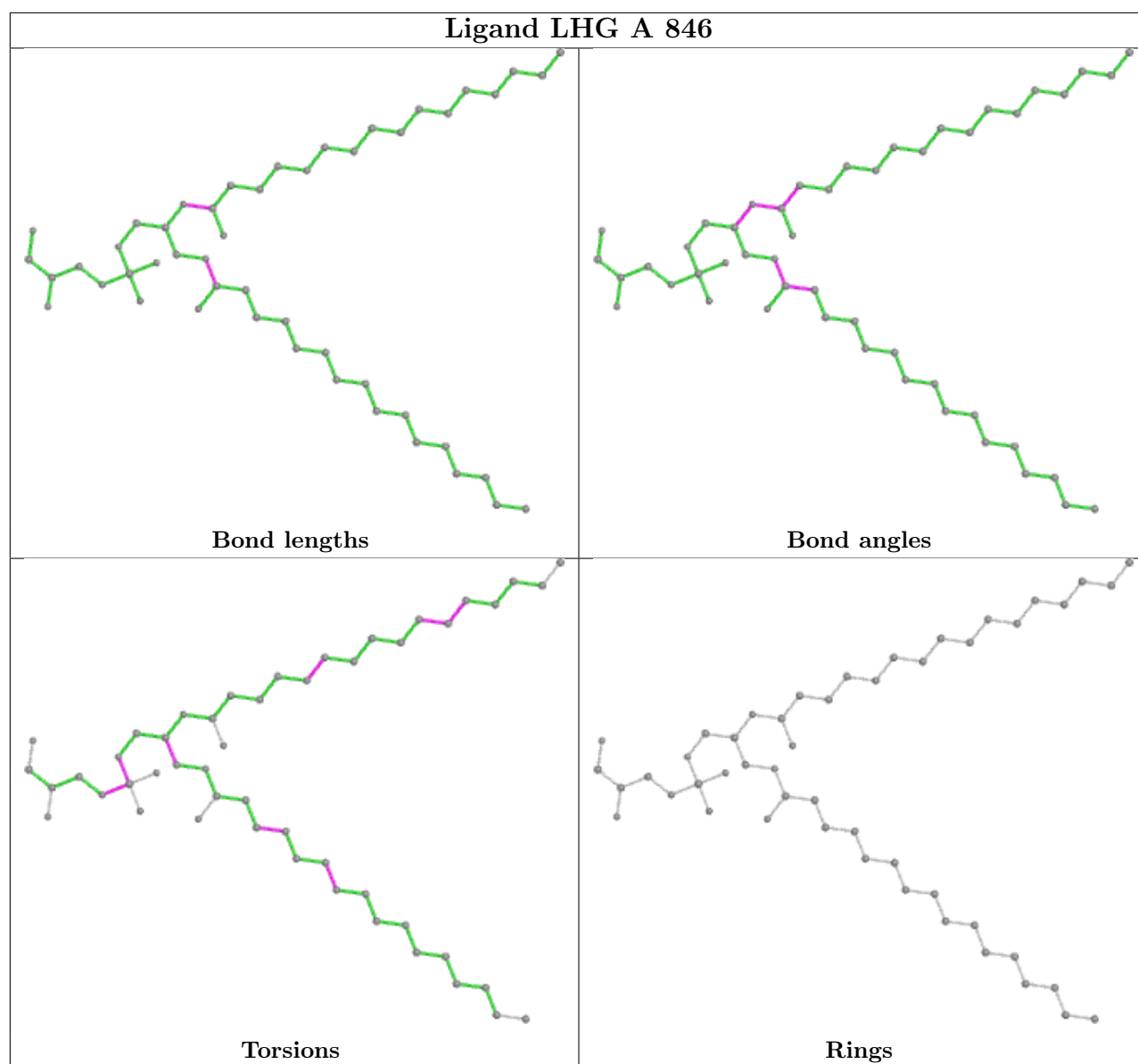
Ligand CLA b 804



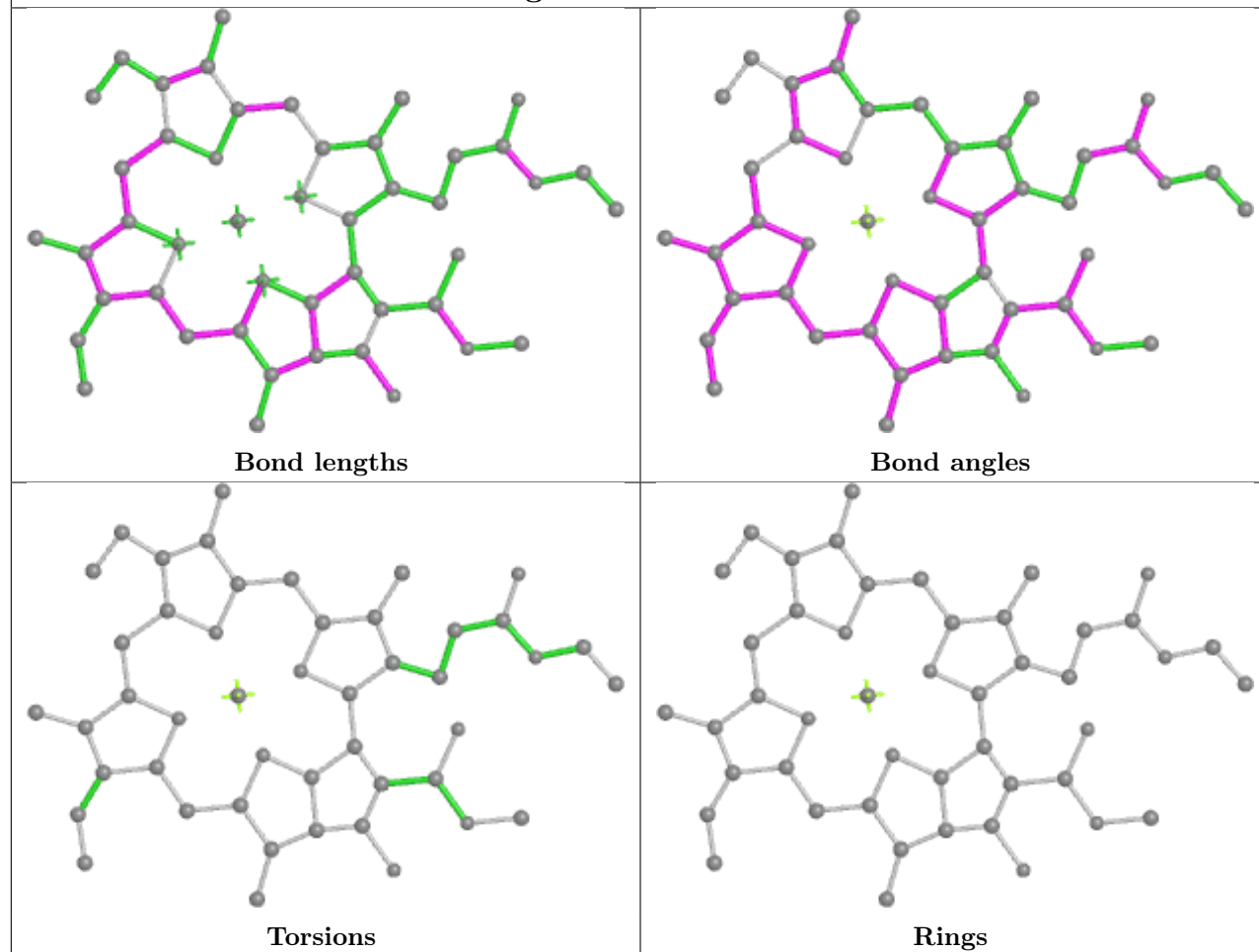
Ligand LUT 4 616



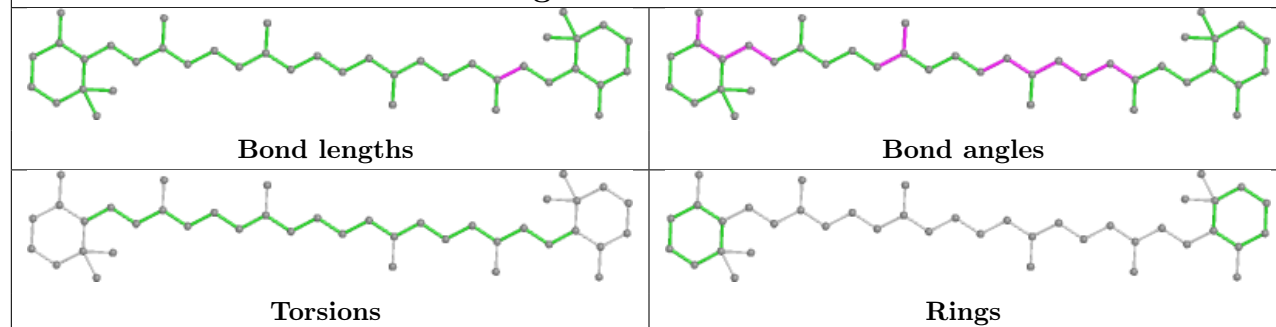




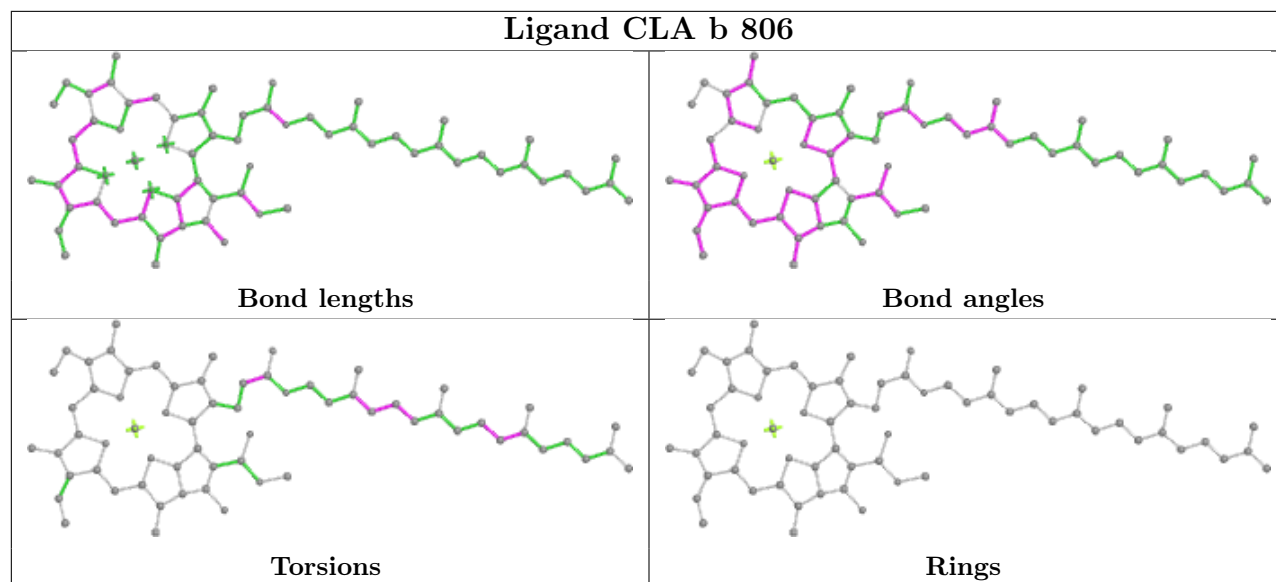
Ligand CLA B 838



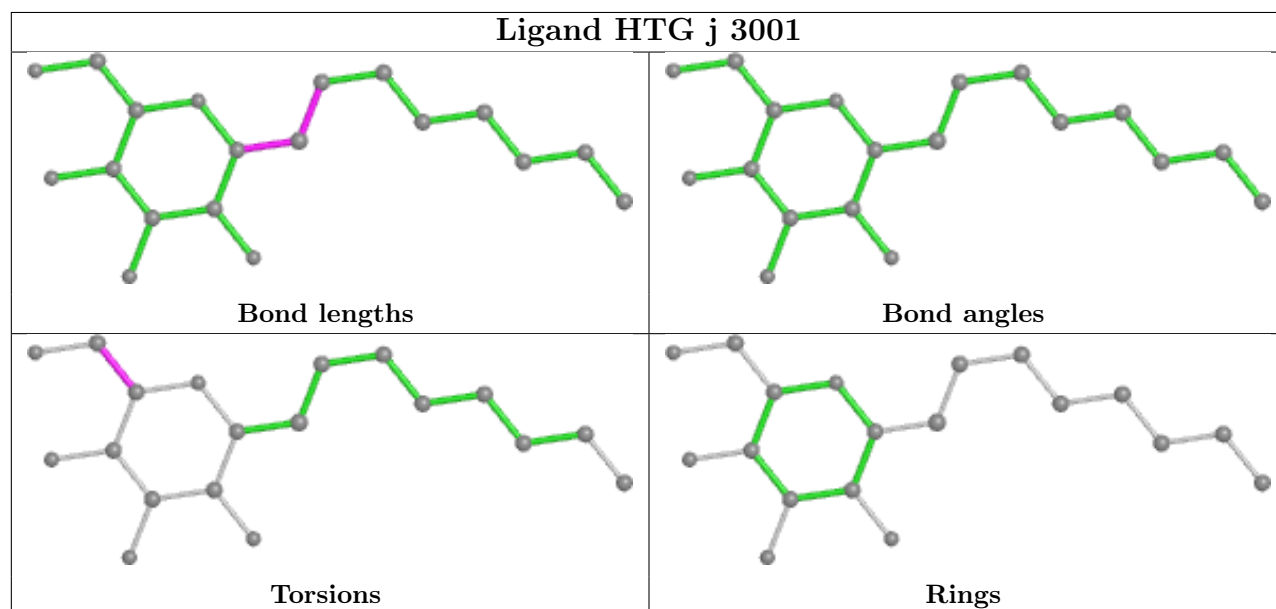
Ligand BCR b 801



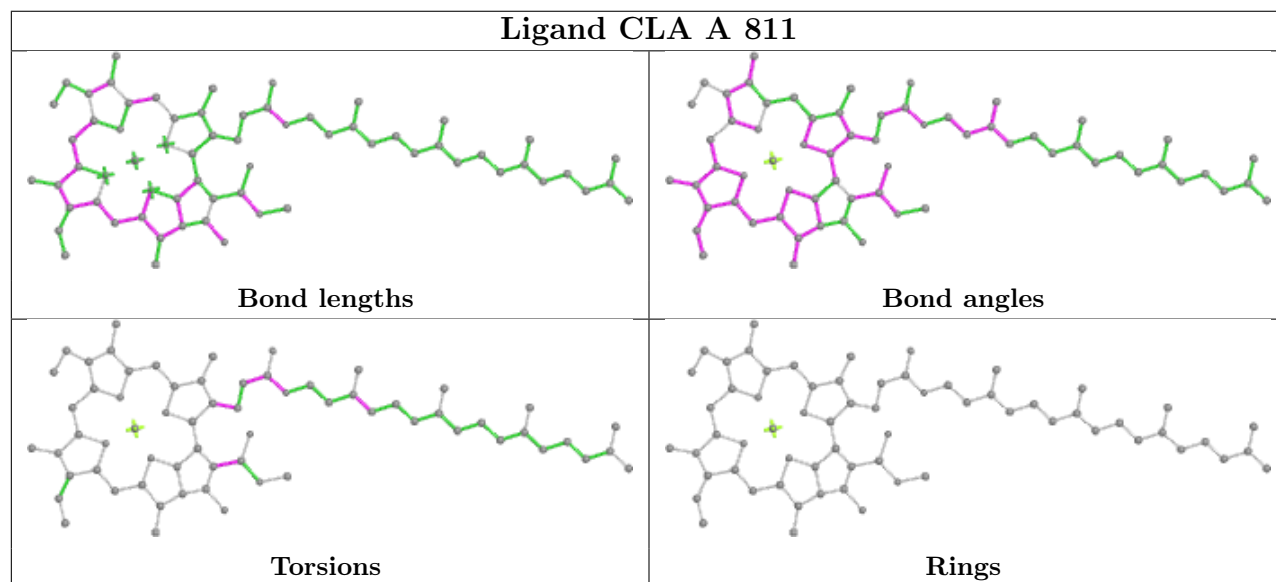
Ligand CLA b 806

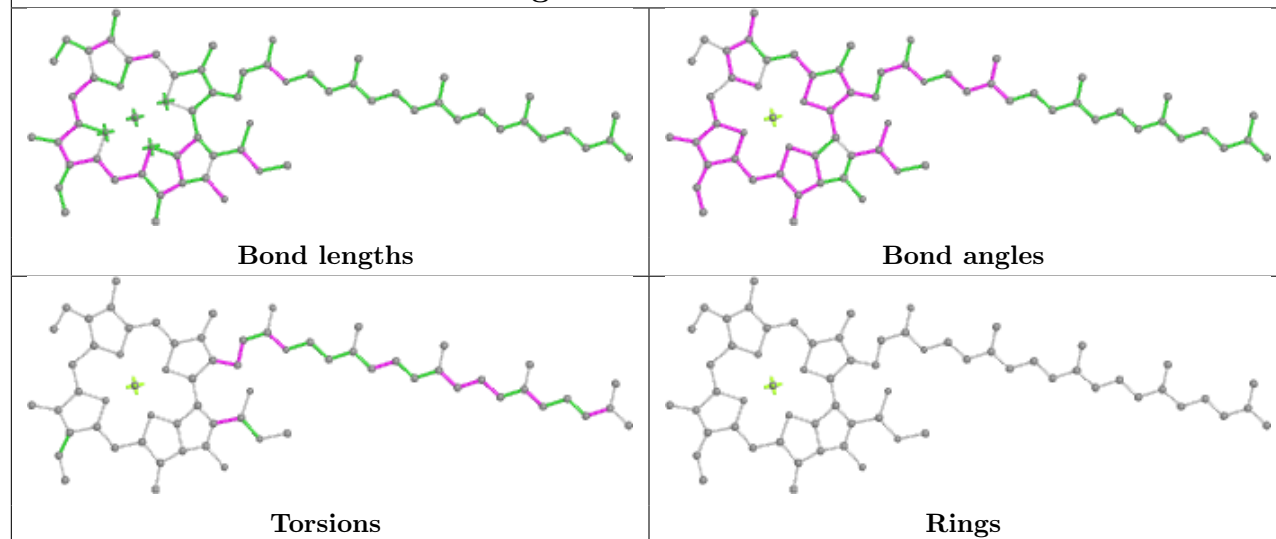
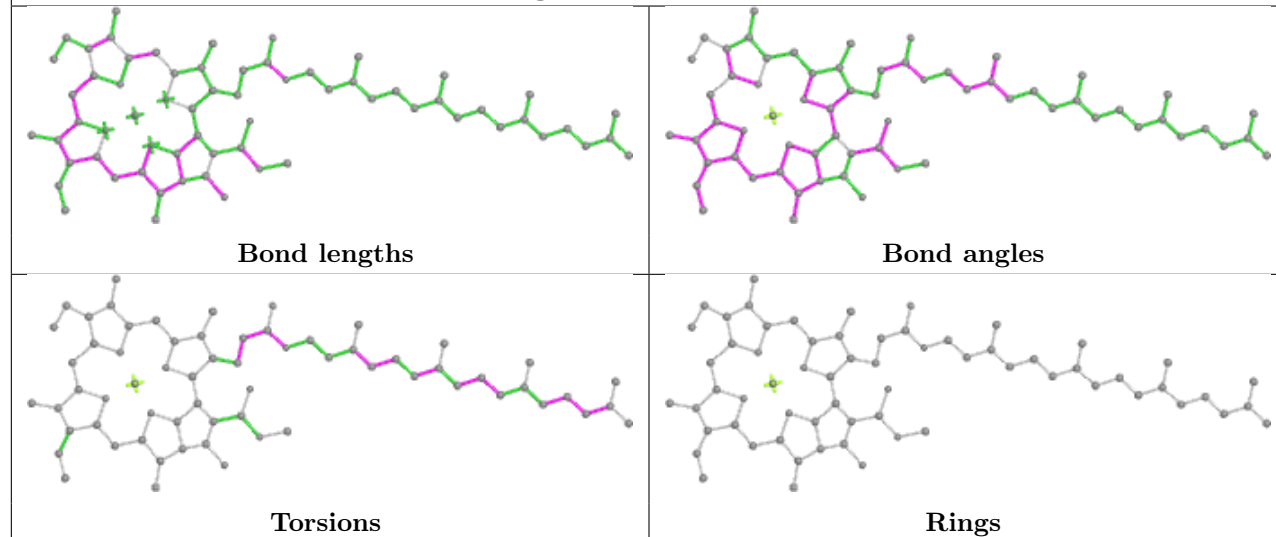


Ligand HTG j 3001

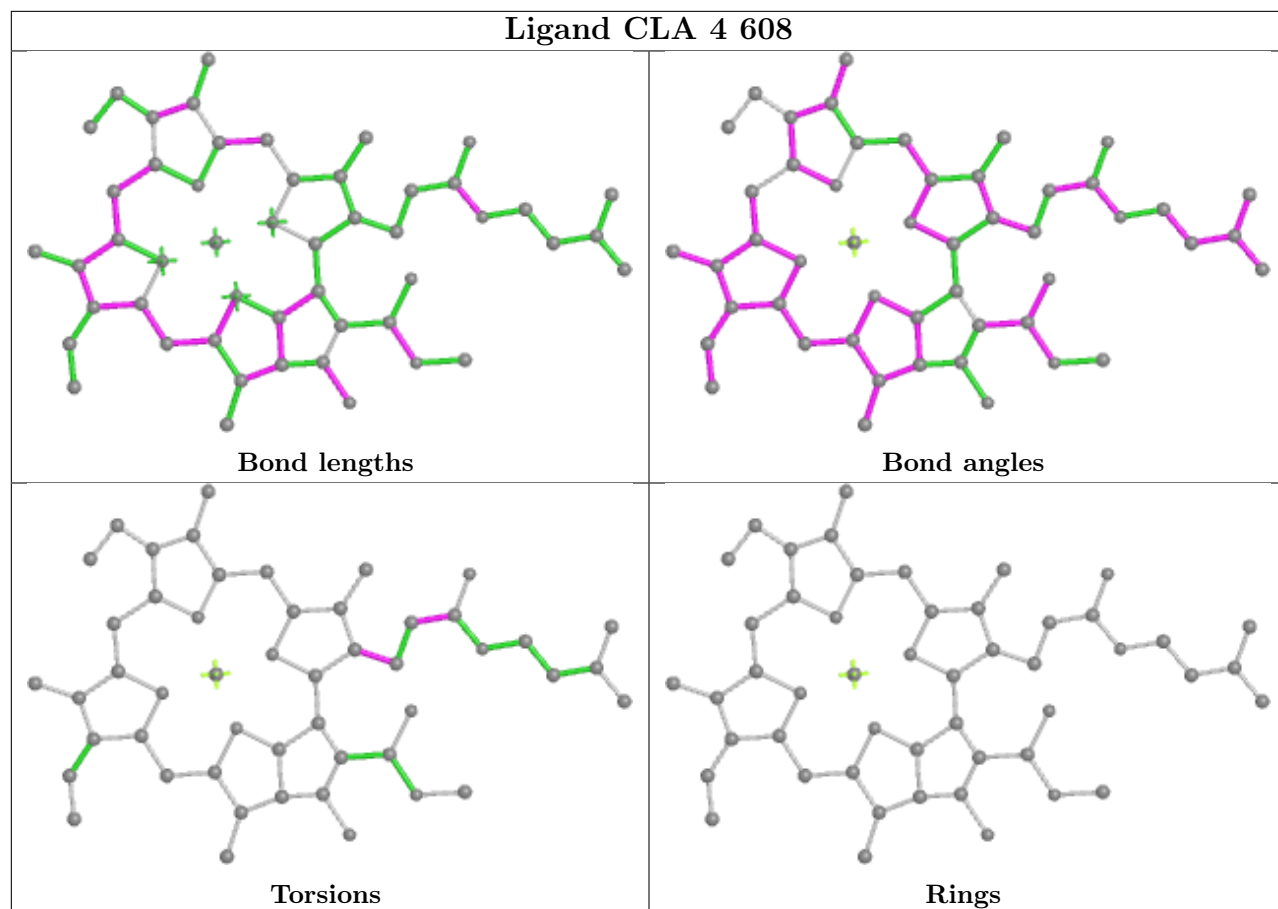


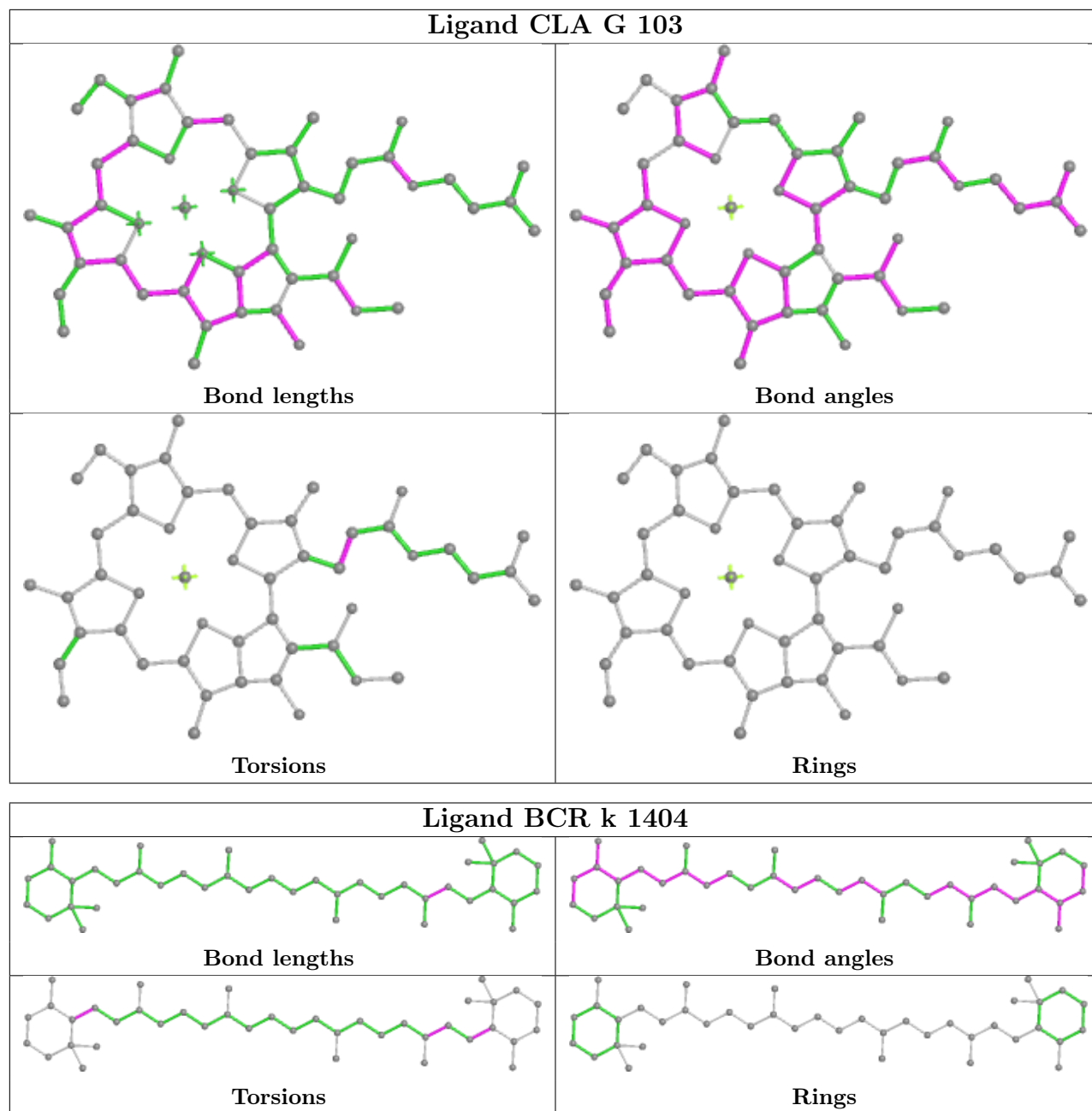
Ligand CLA A 811



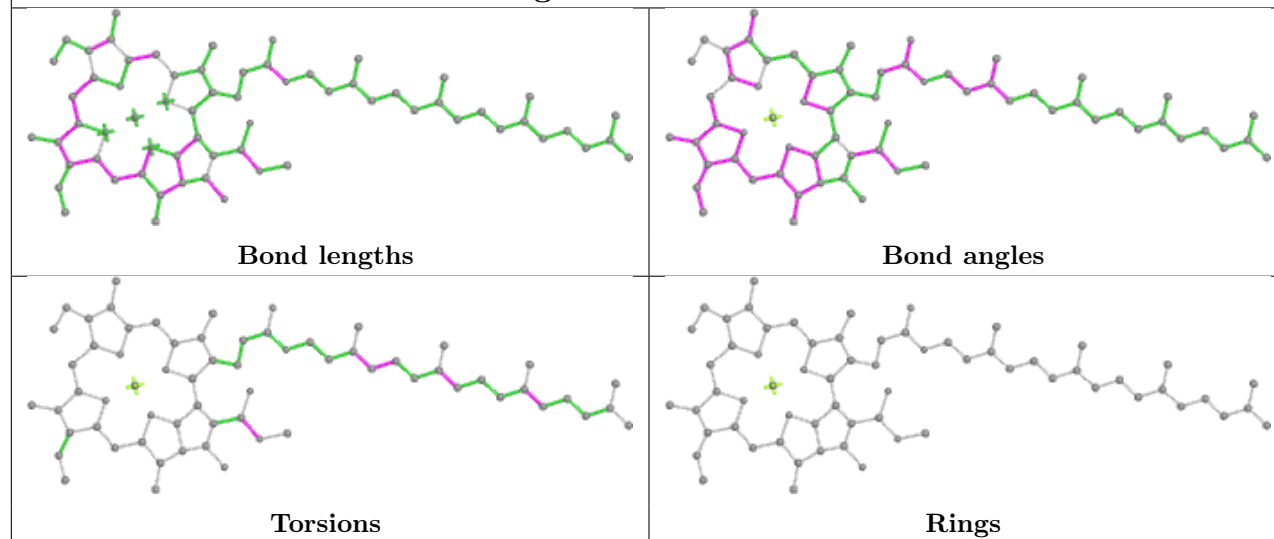
Ligand CLA A 812**Ligand CLA A 843**

Ligand CLA 4 608

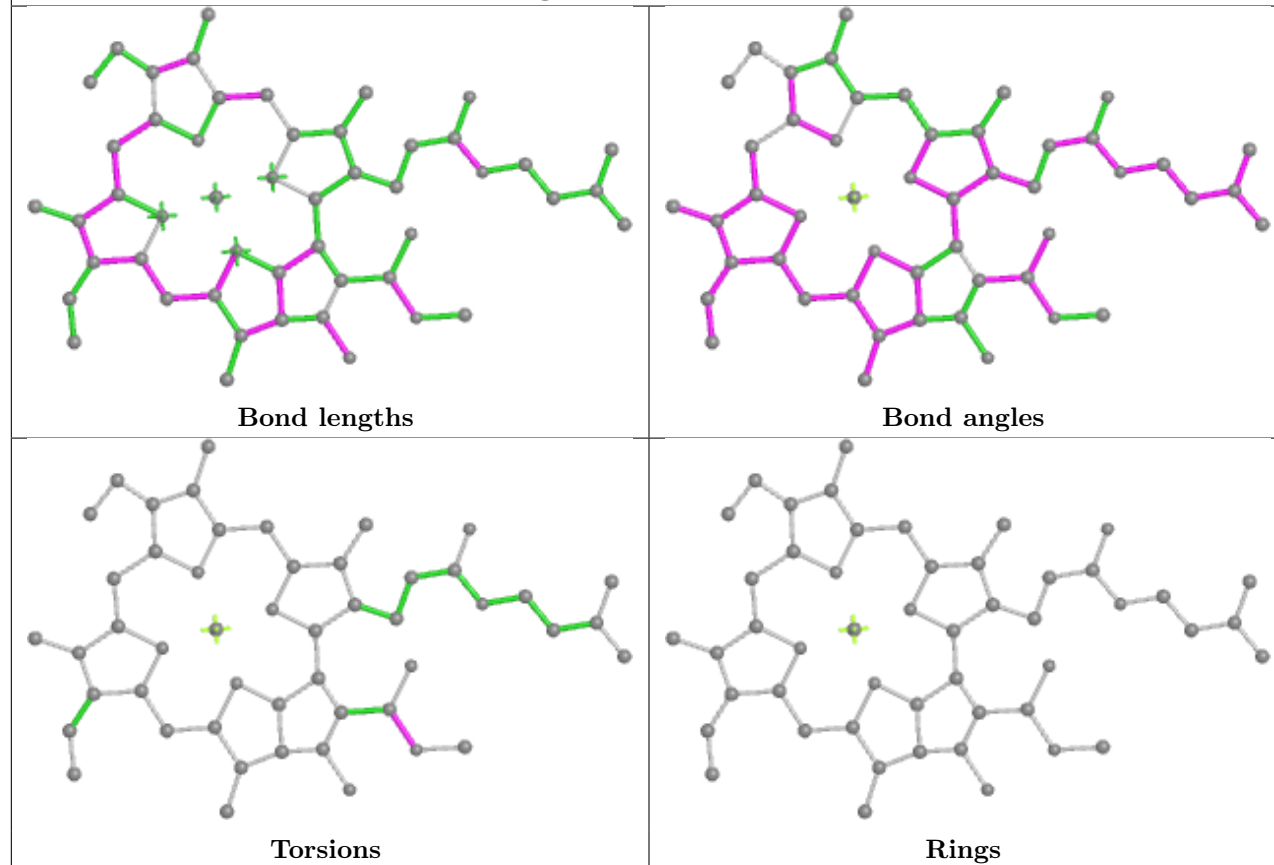




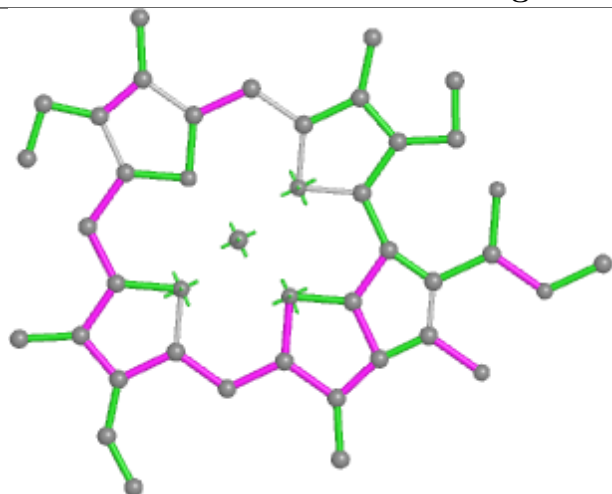
Ligand CLA F 301



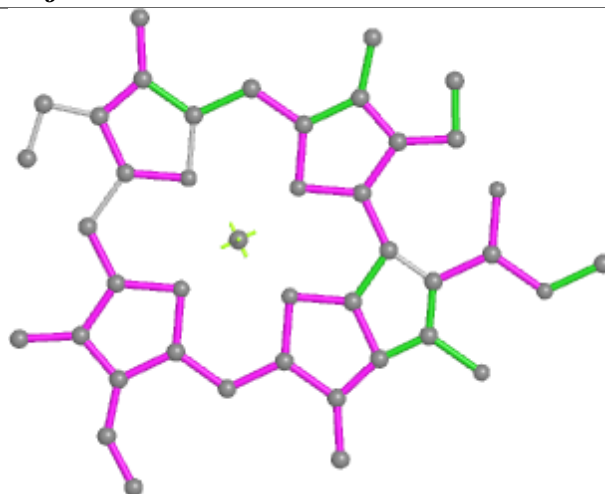
Ligand CLA a 836



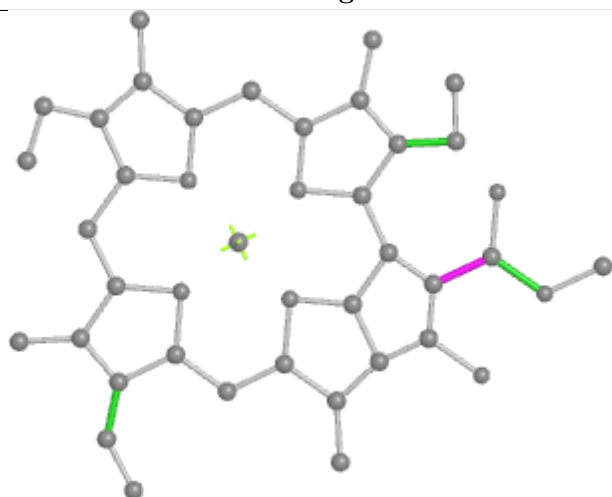
Ligand CLA j 3002



Bond lengths



Bond angles

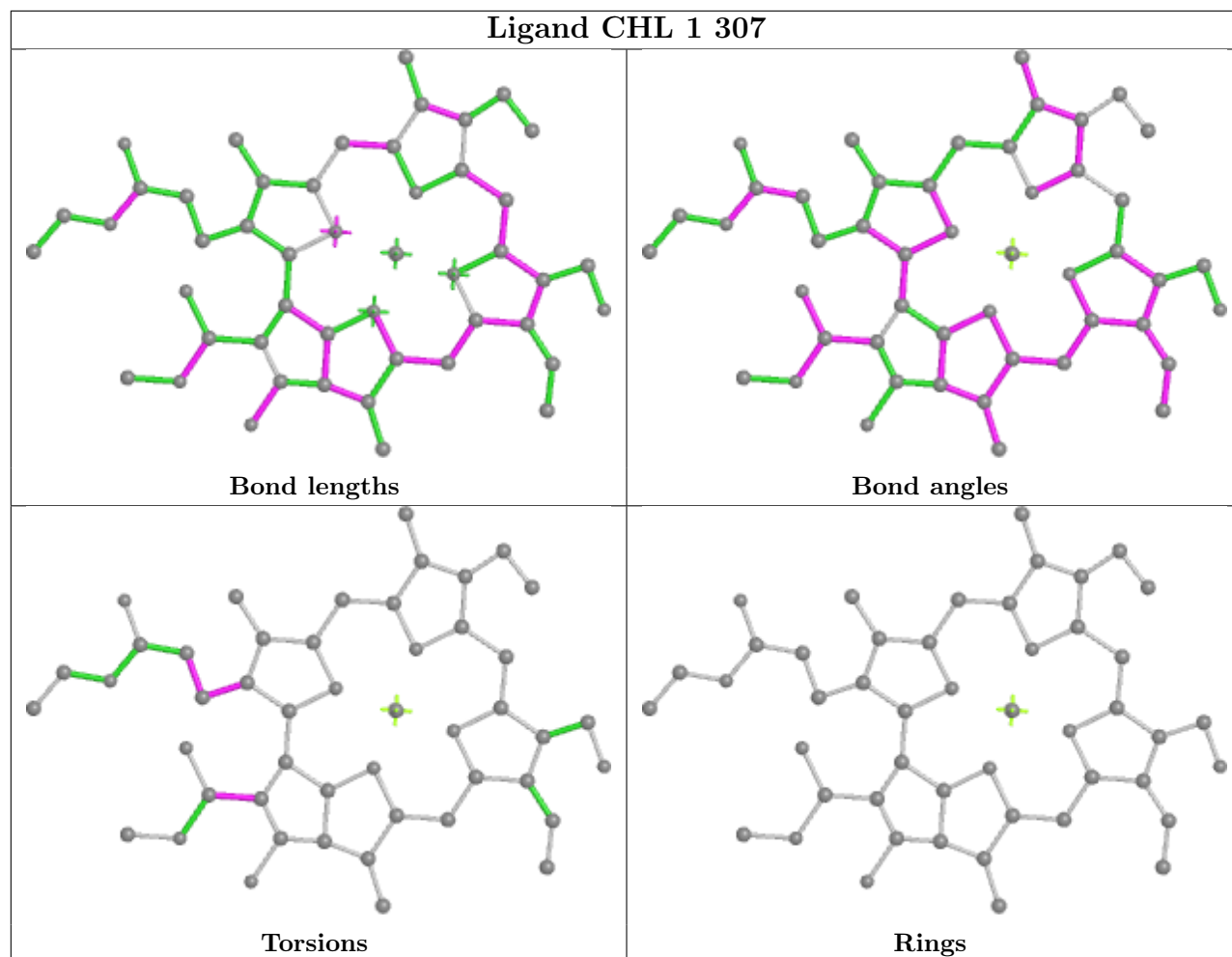


Torsions

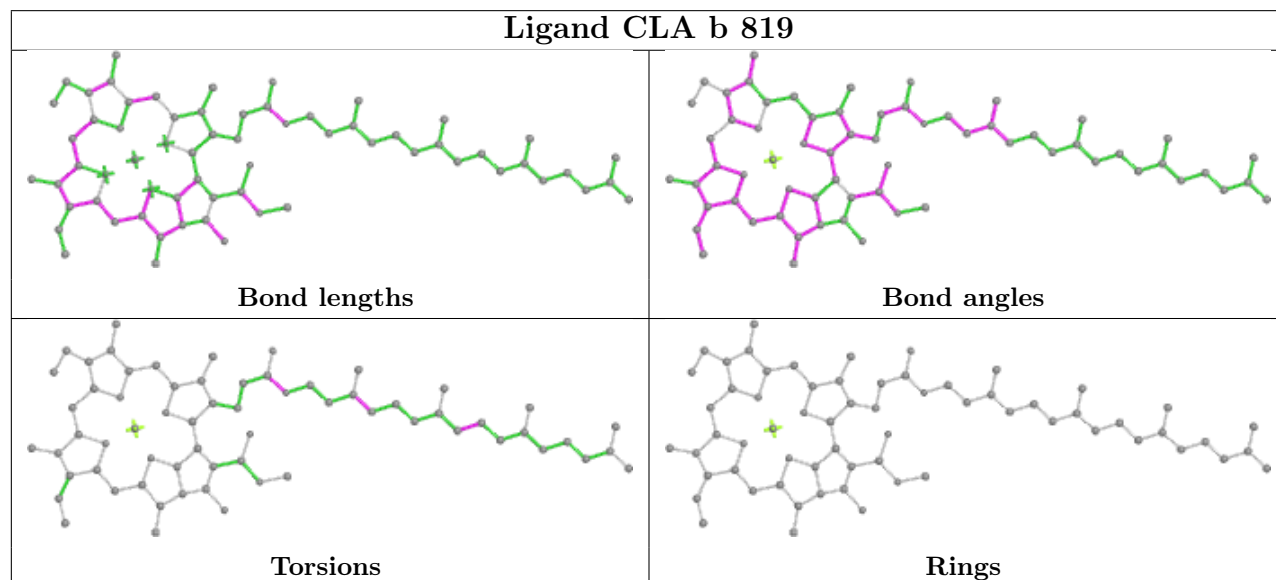


Rings

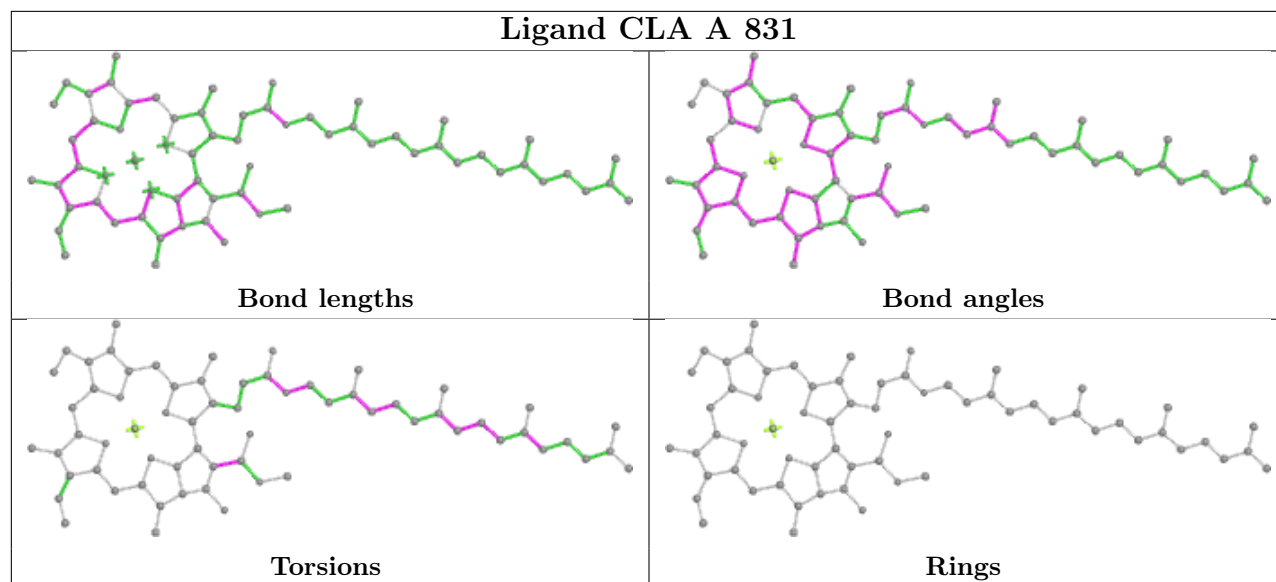
Ligand CHL 1 307



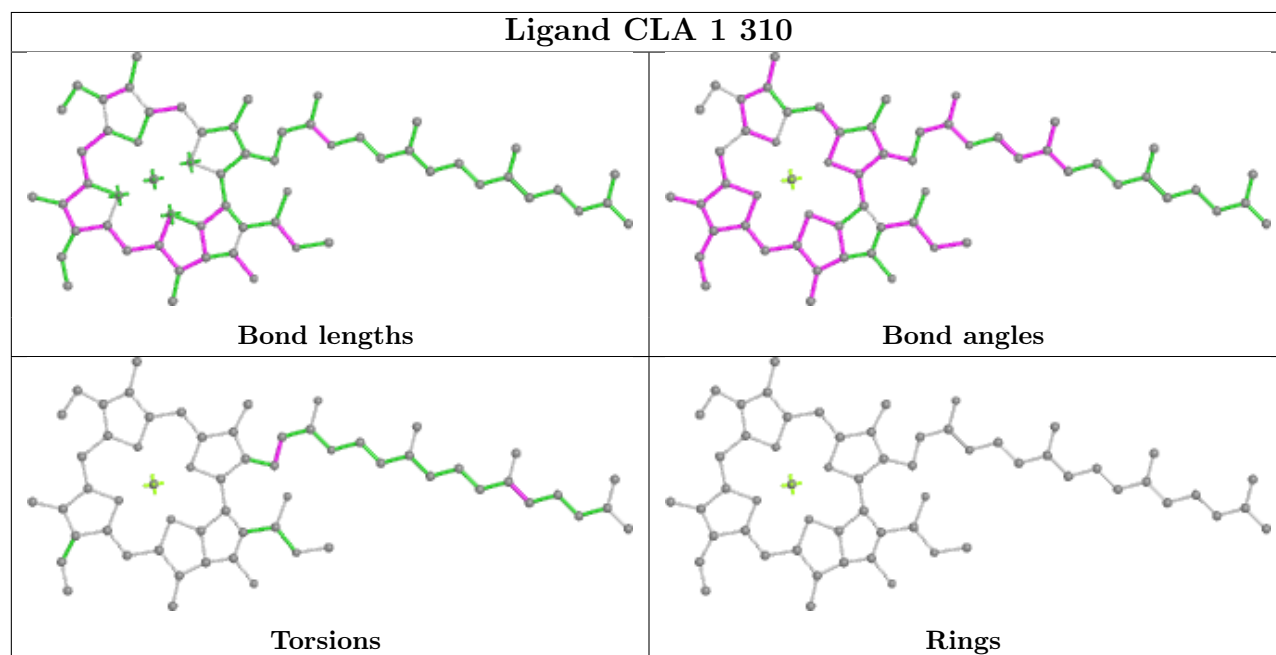
Ligand CLA b 819



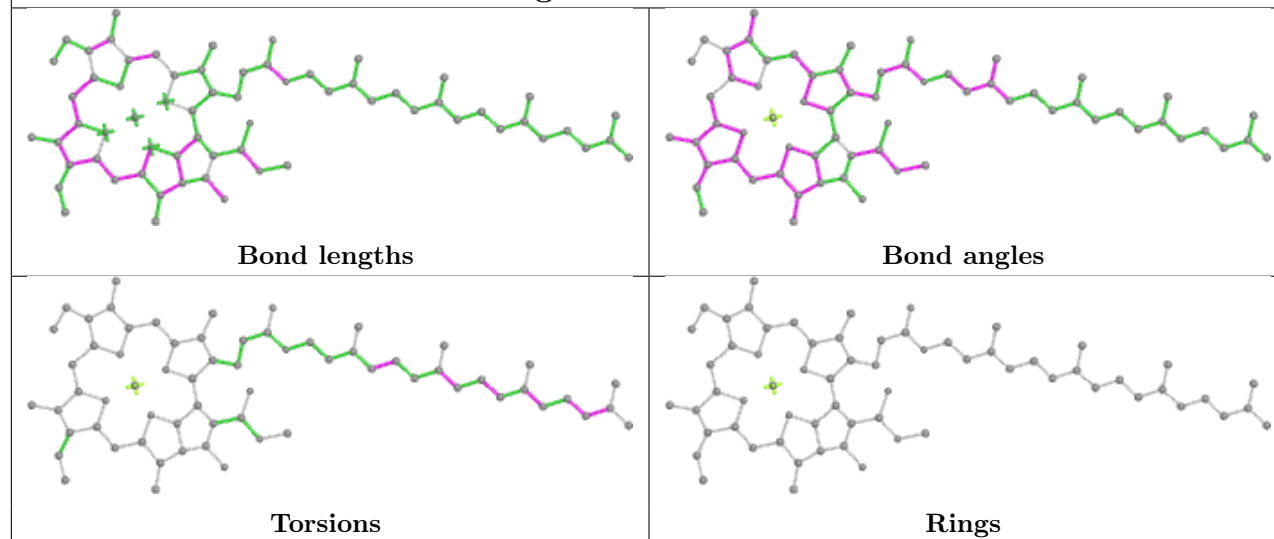
Ligand CLA A 831



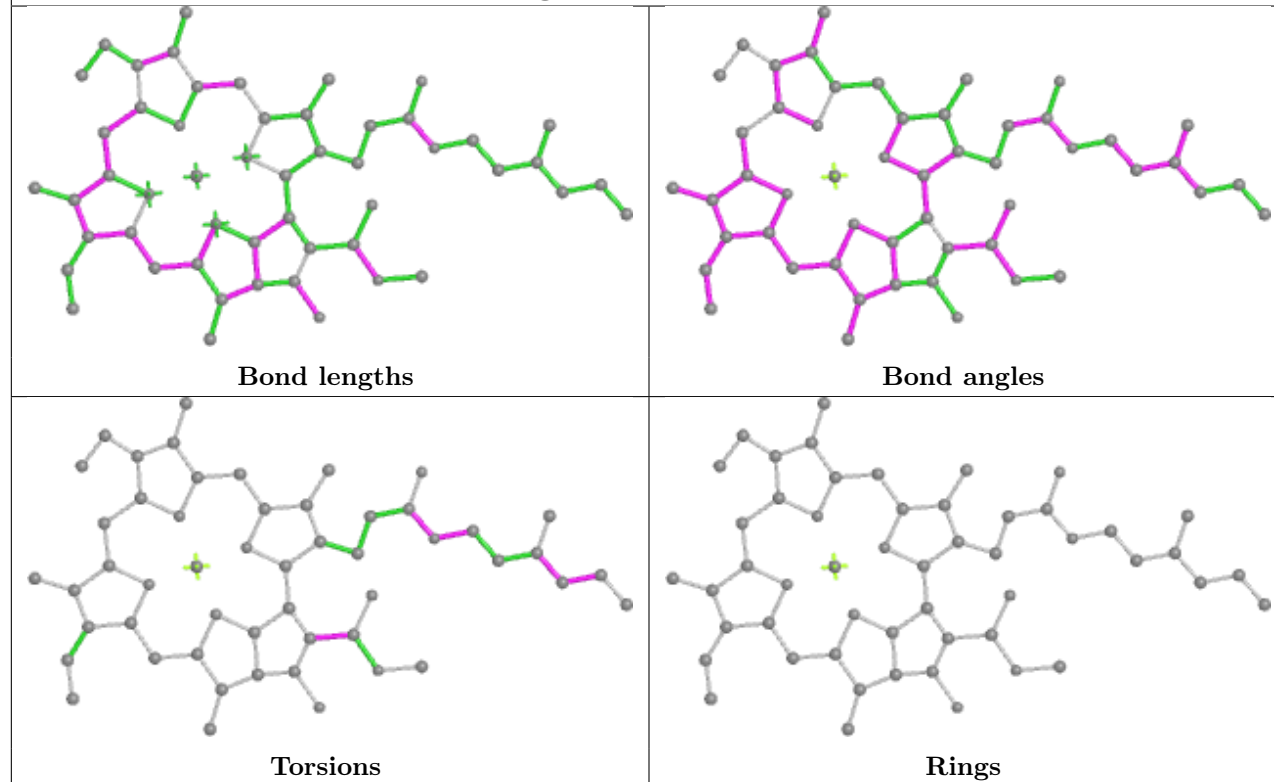
Ligand CLA 1 310

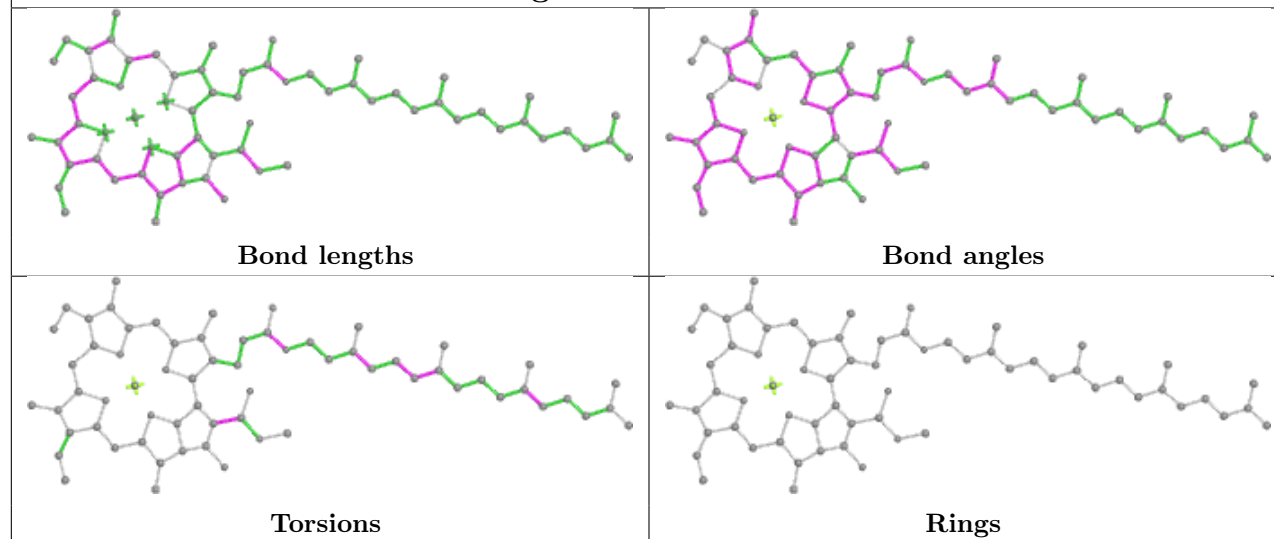
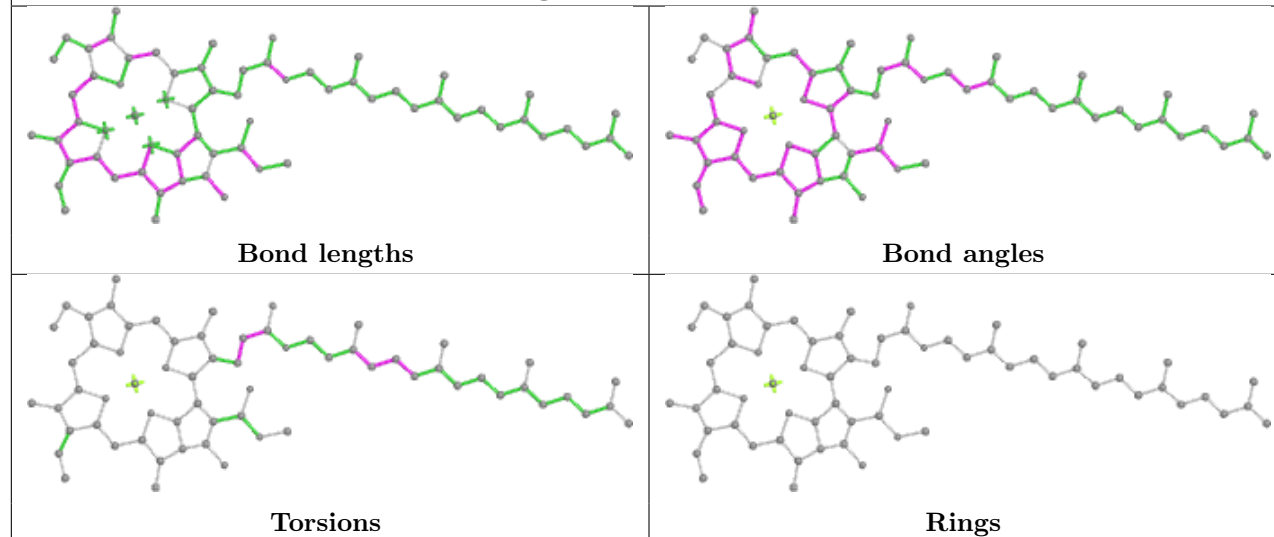


Ligand CLA b 803

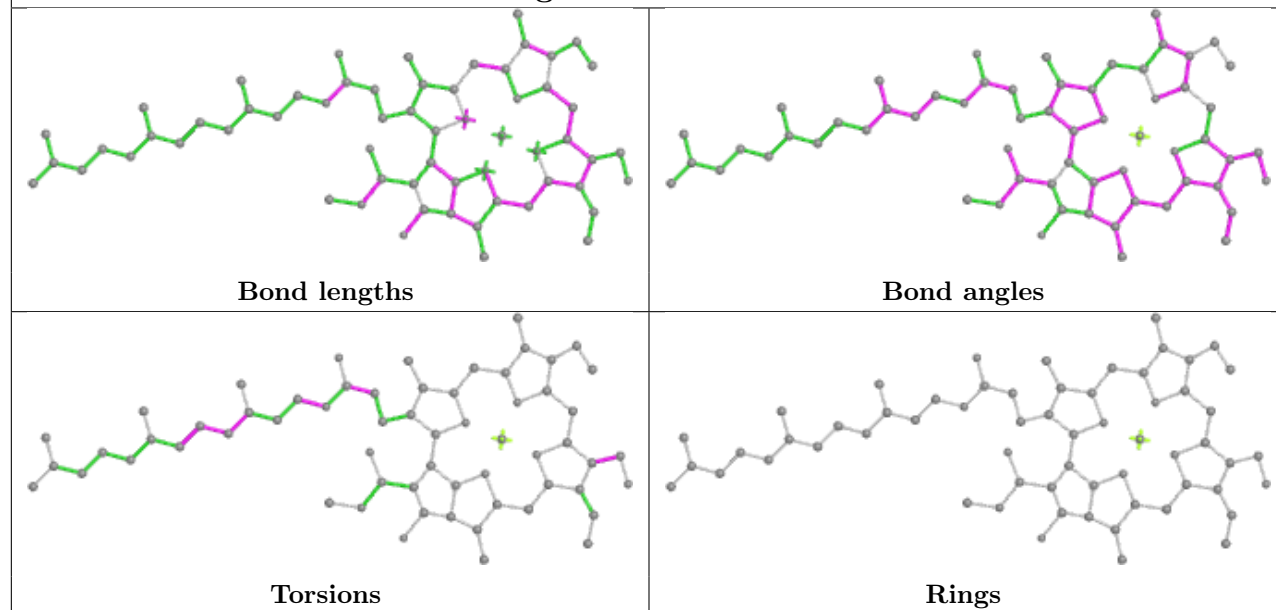


Ligand CLA 4 611

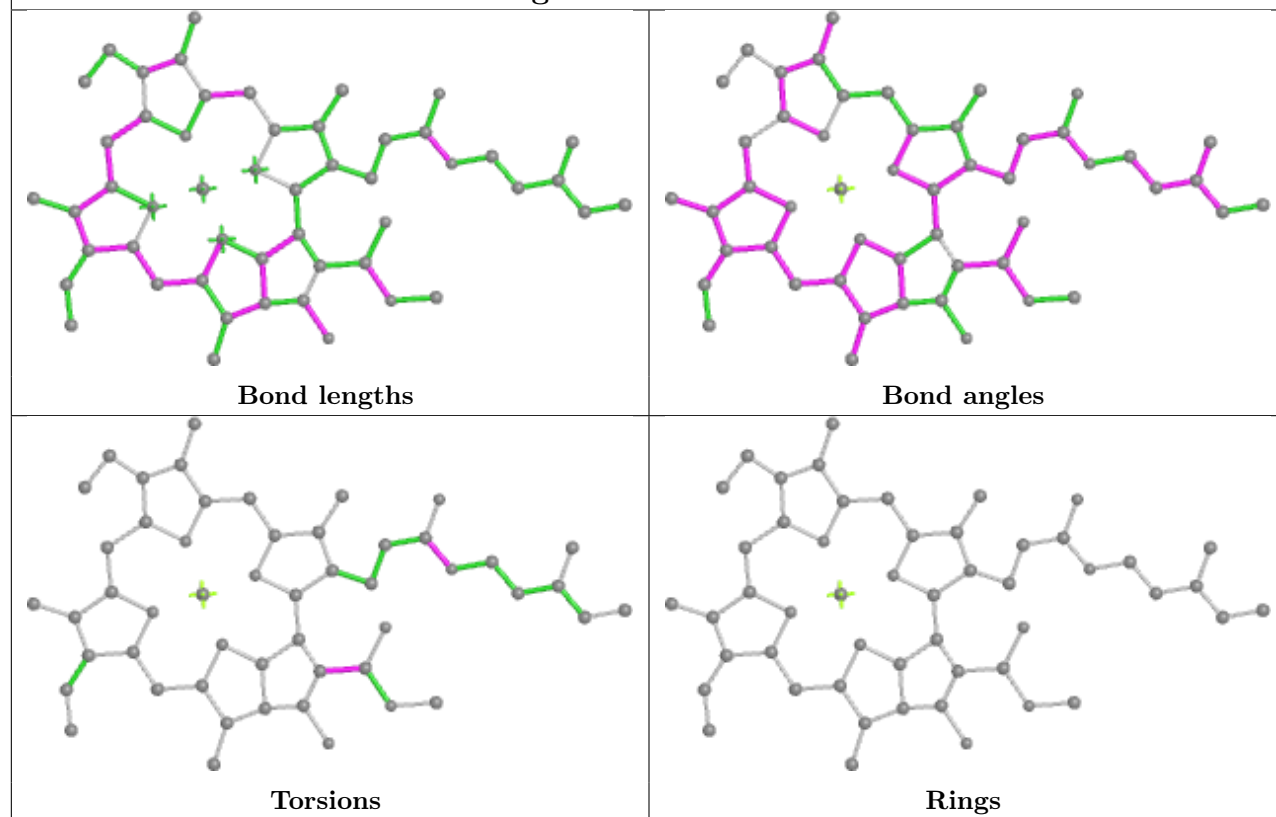


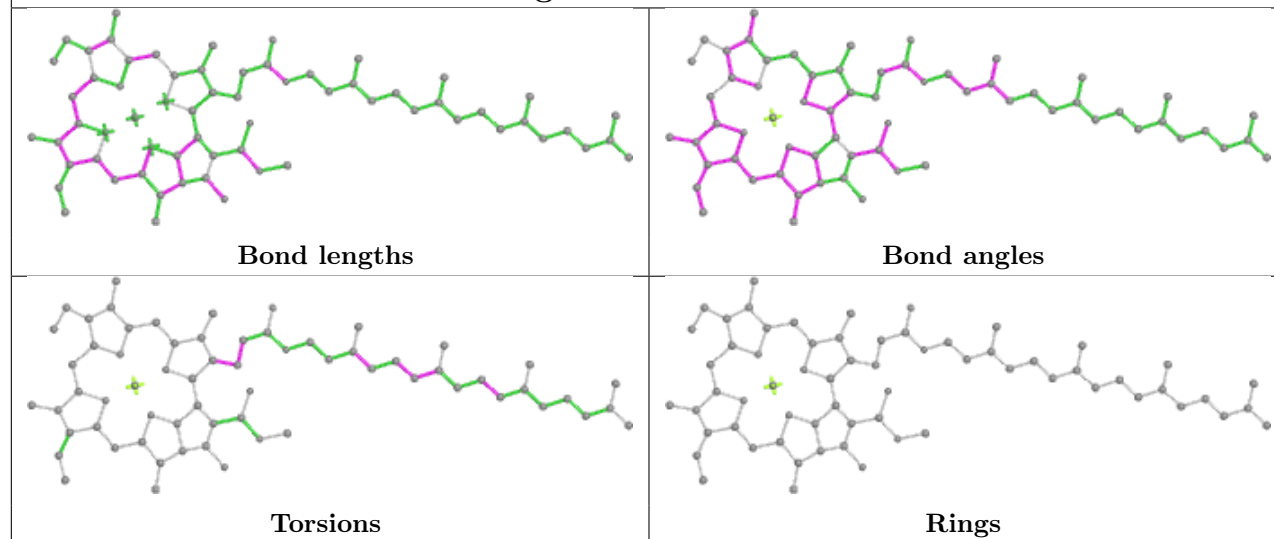
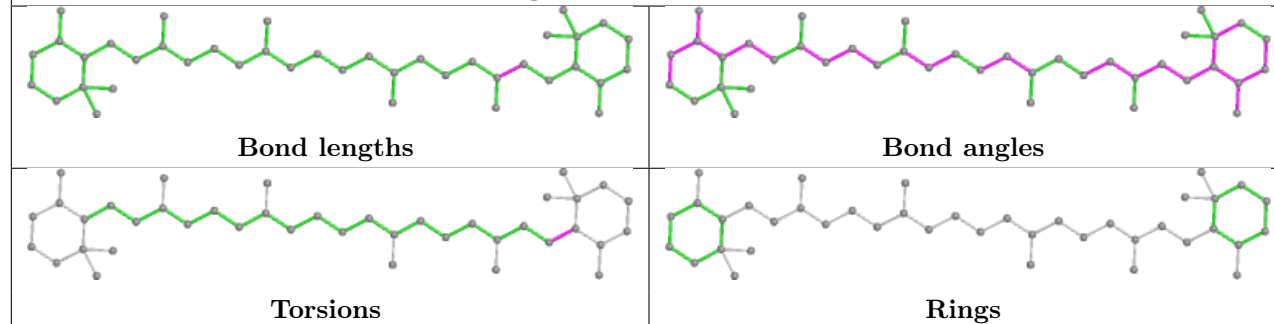
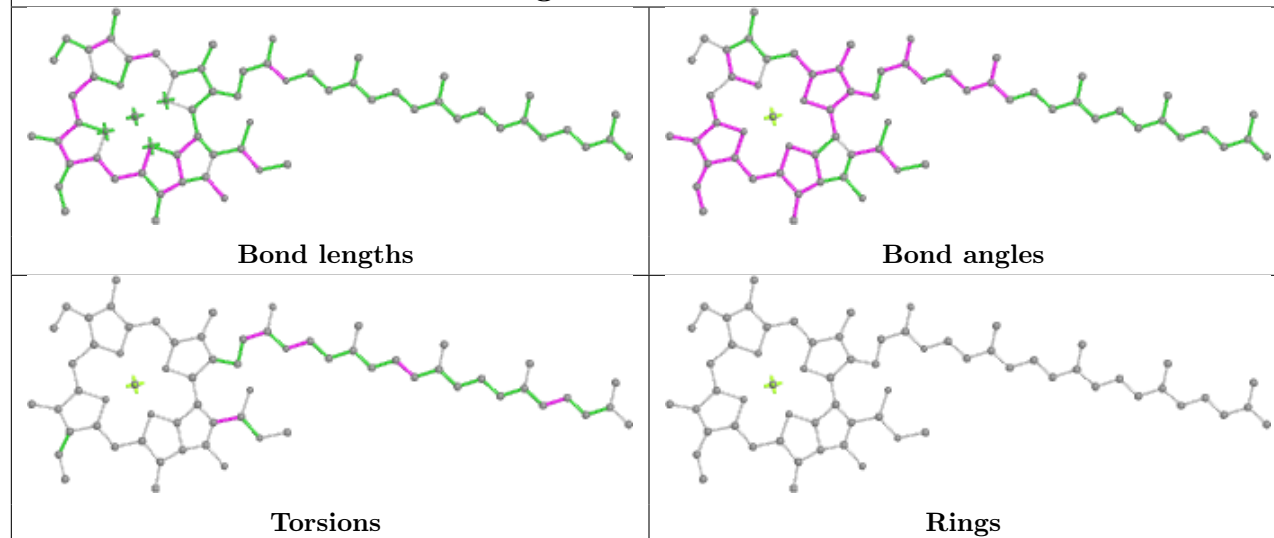
Ligand CLA A 835**Ligand CLA b 807**

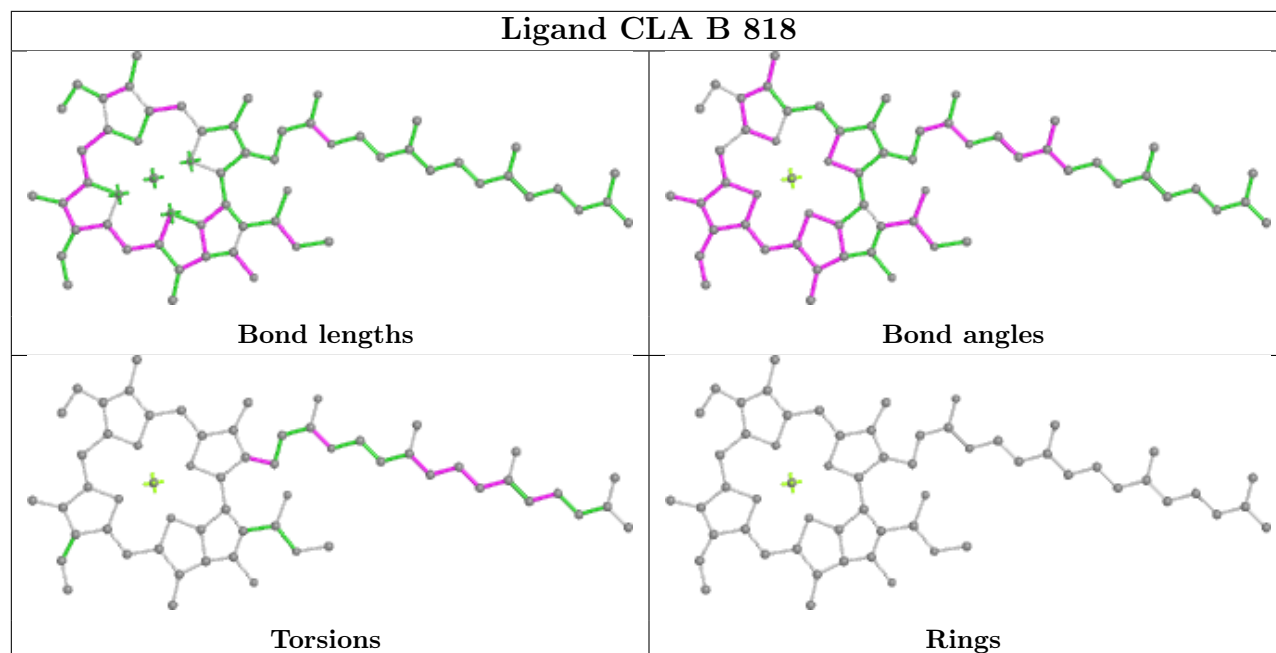
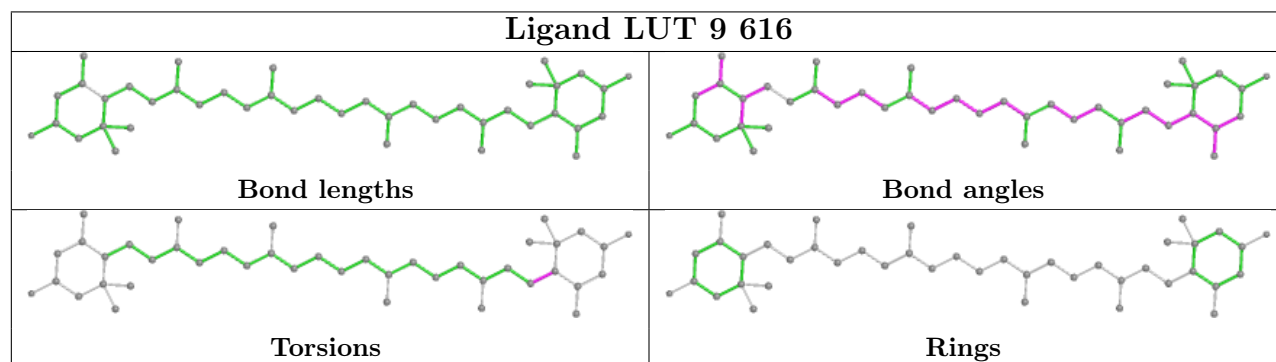
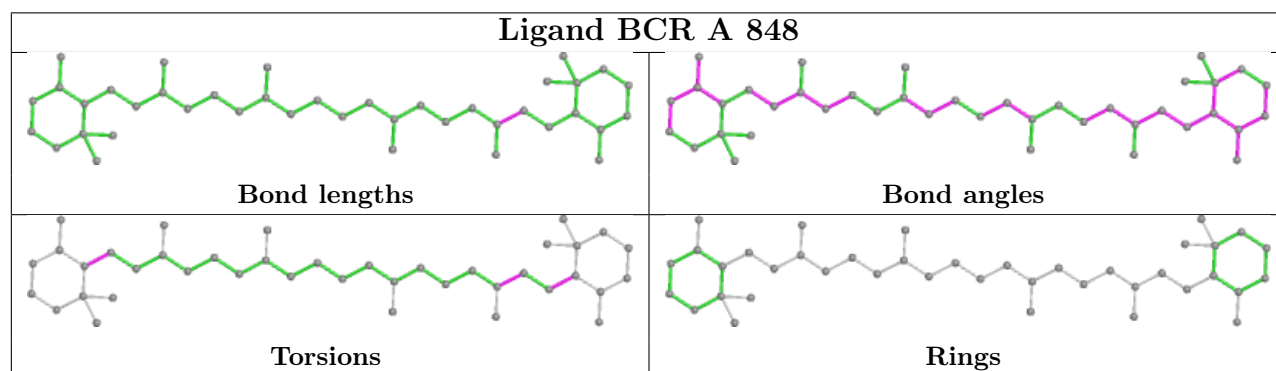
Ligand CHL 7 601



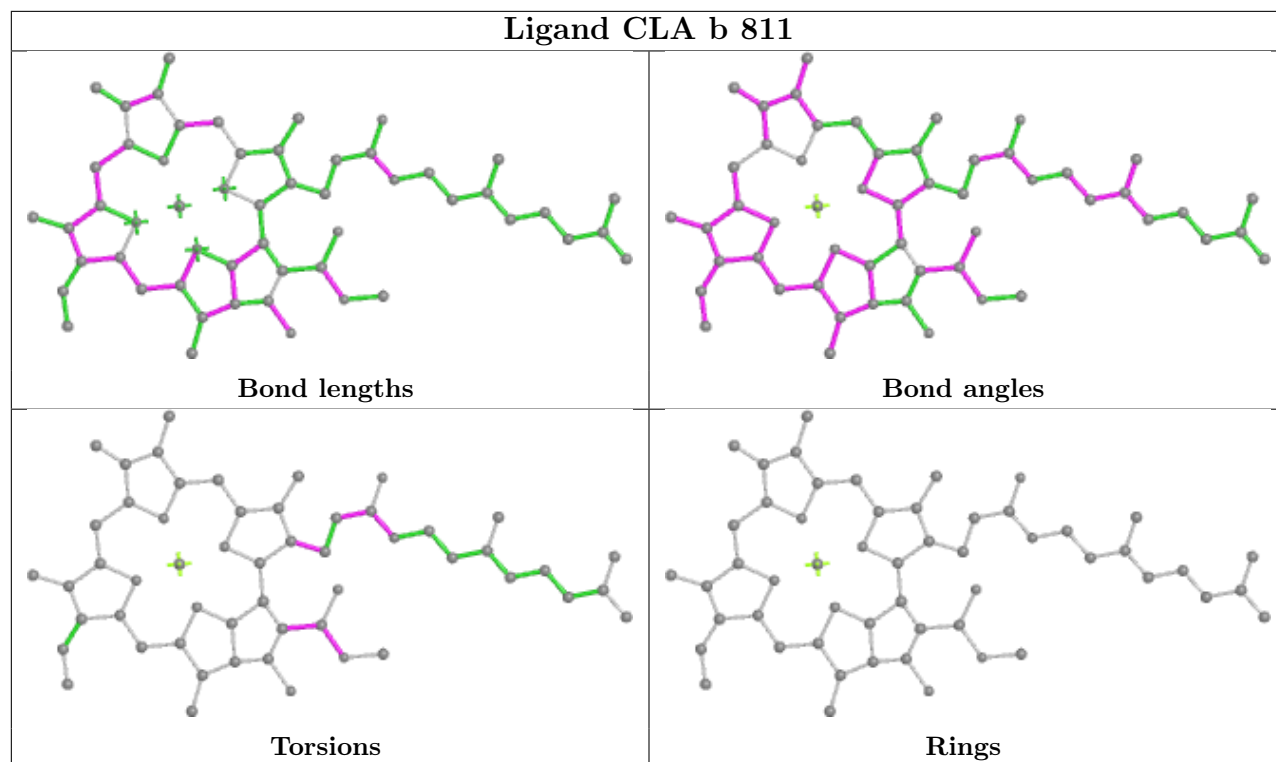
Ligand CLA A 838



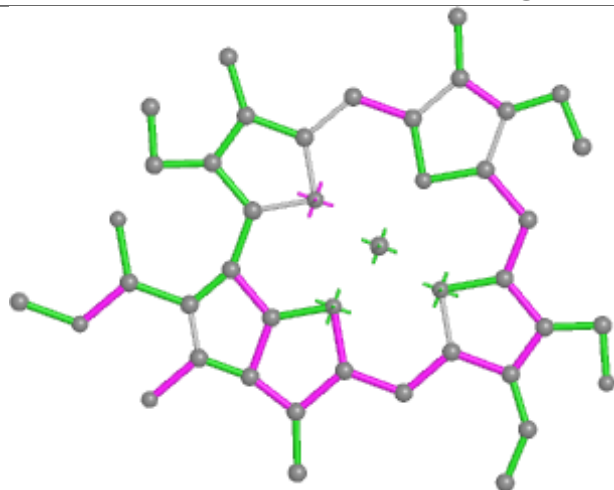
Ligand CLA b 828**Ligand BCR J 3003****Ligand CLA b 802**

Ligand CLA B 818**Ligand LUT 9 616****Ligand BCR A 848**

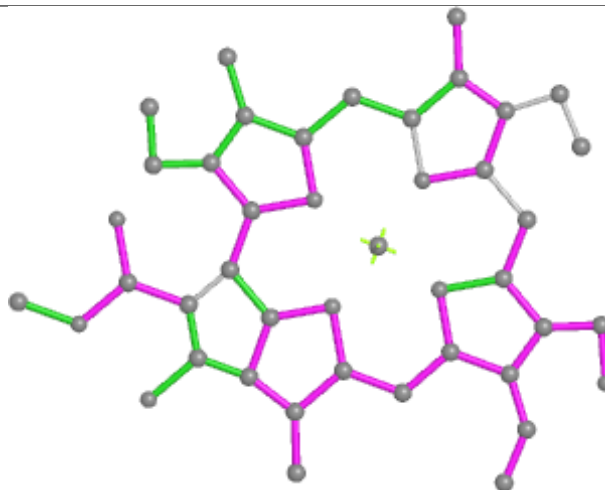
Ligand CLA b 811



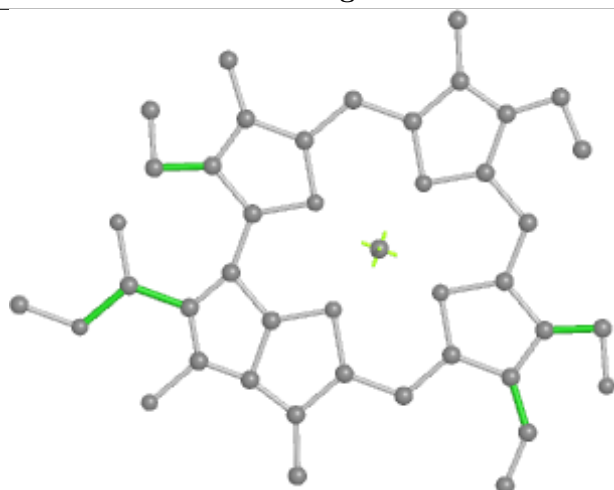
Ligand CHL 2 605



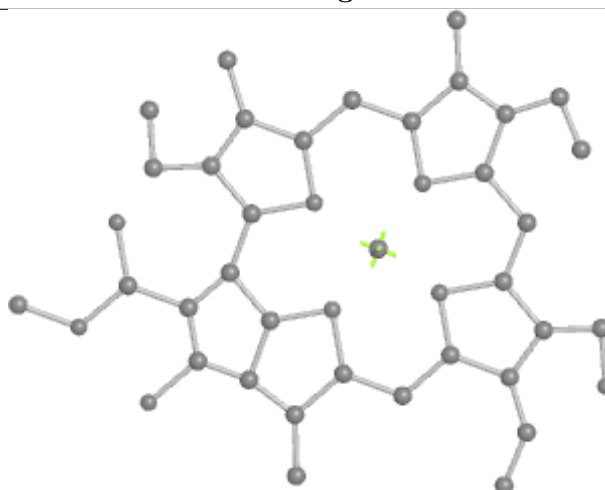
Bond lengths



Bond angles

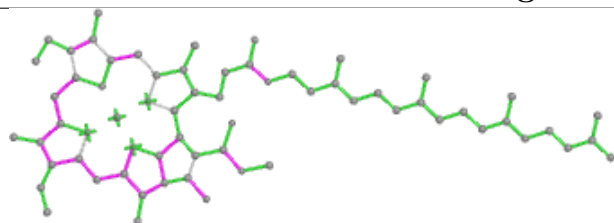


Torsions

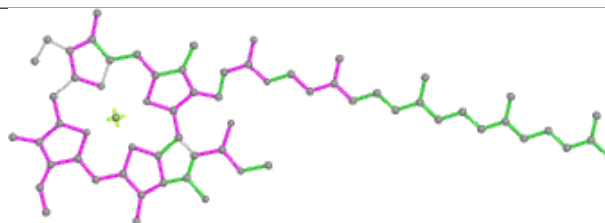


Rings

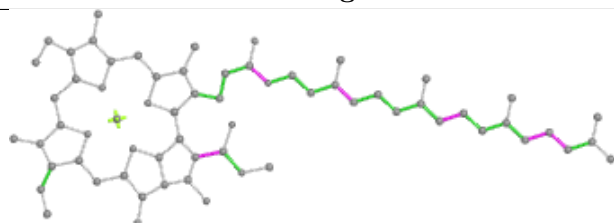
Ligand CLA b 837



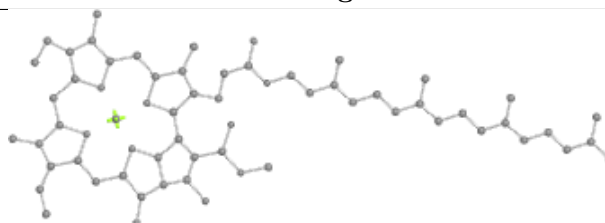
Bond lengths



Bond angles

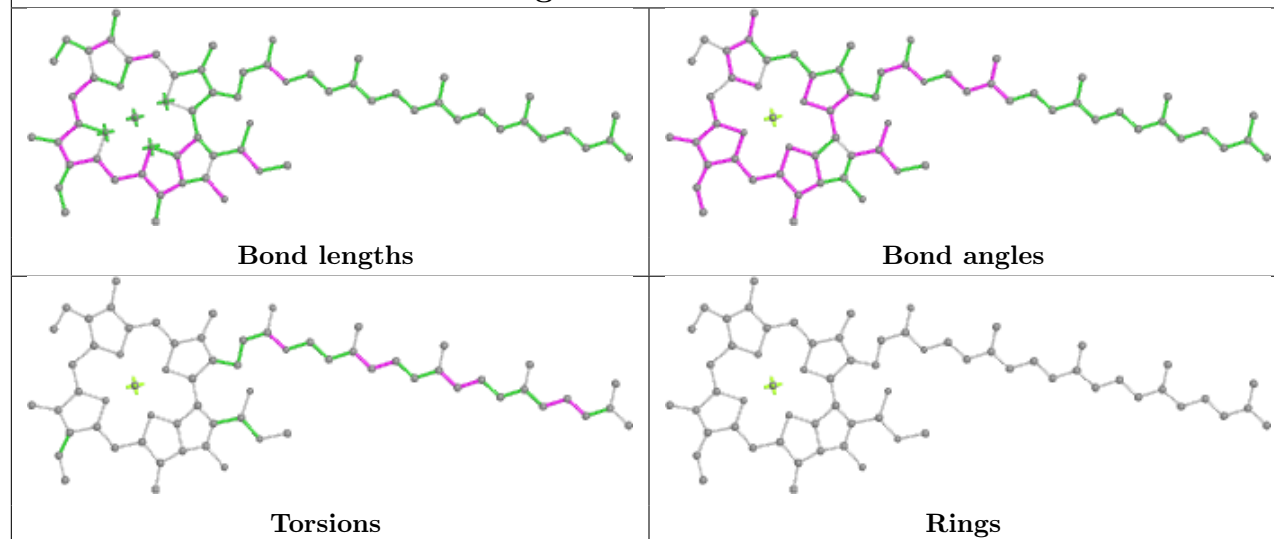


Torsions

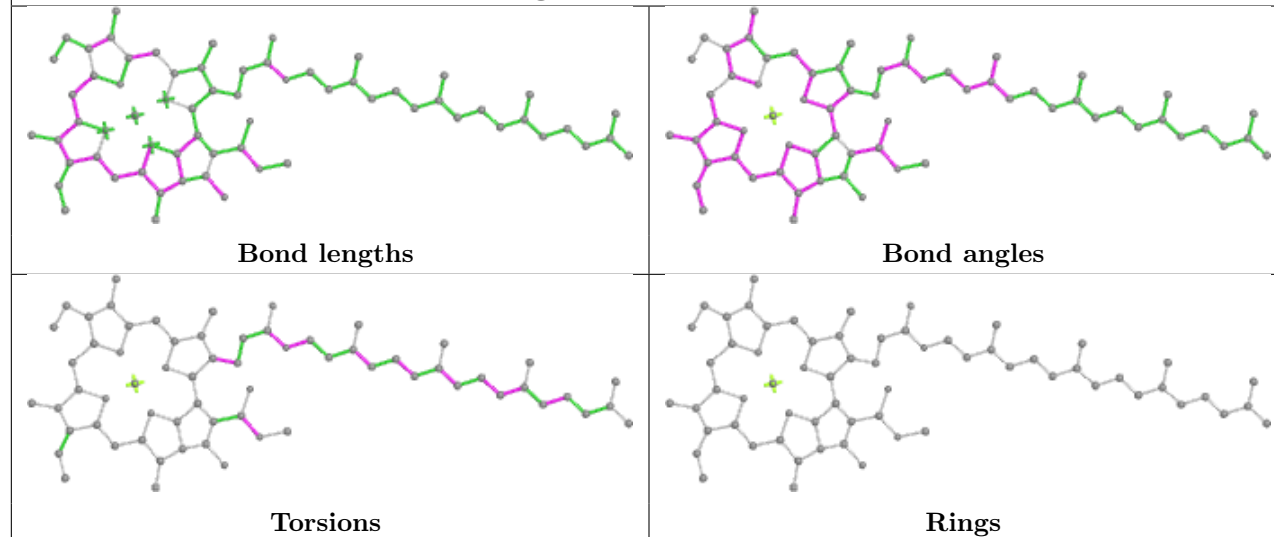


Rings

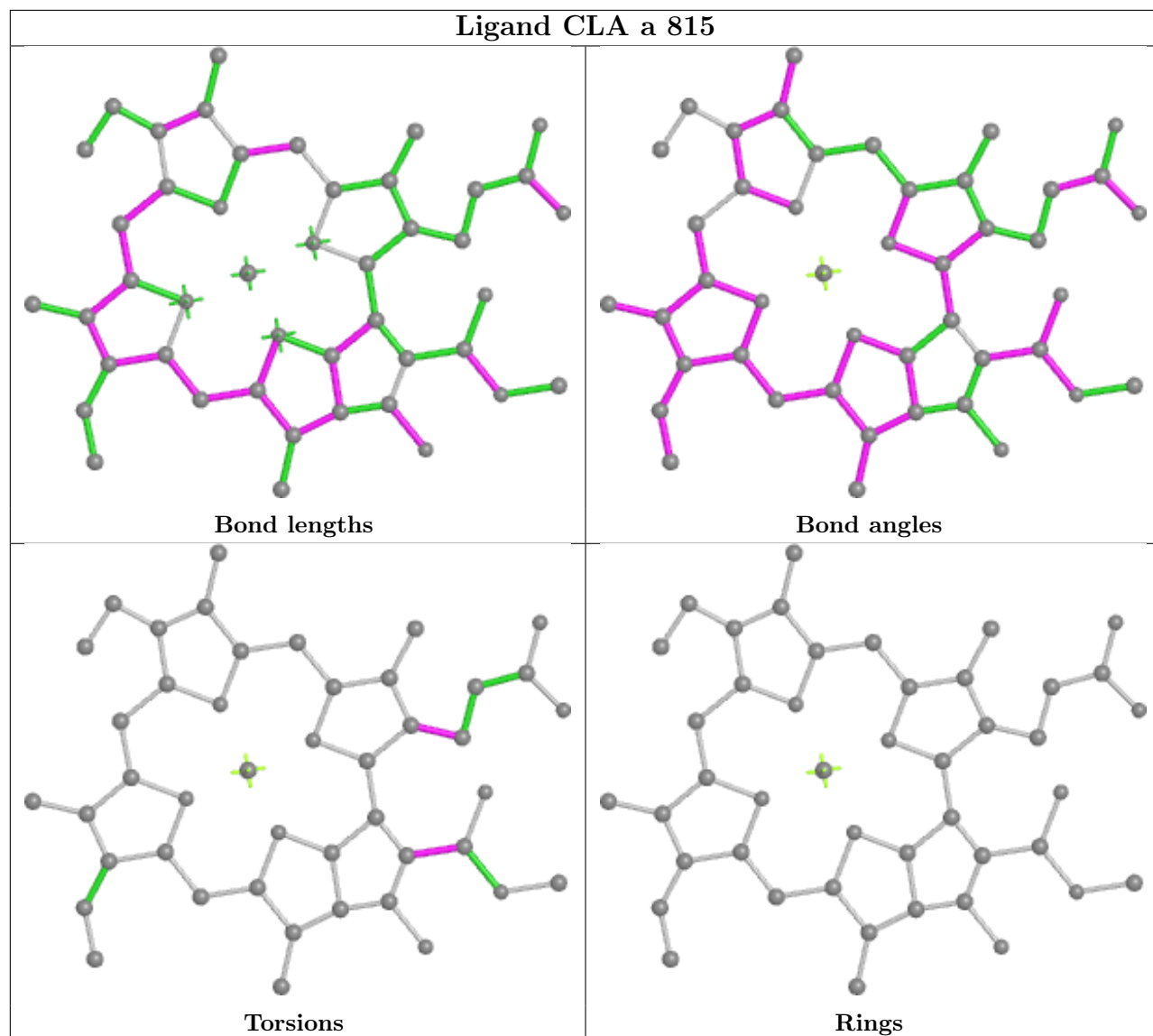
Ligand CLA b 814



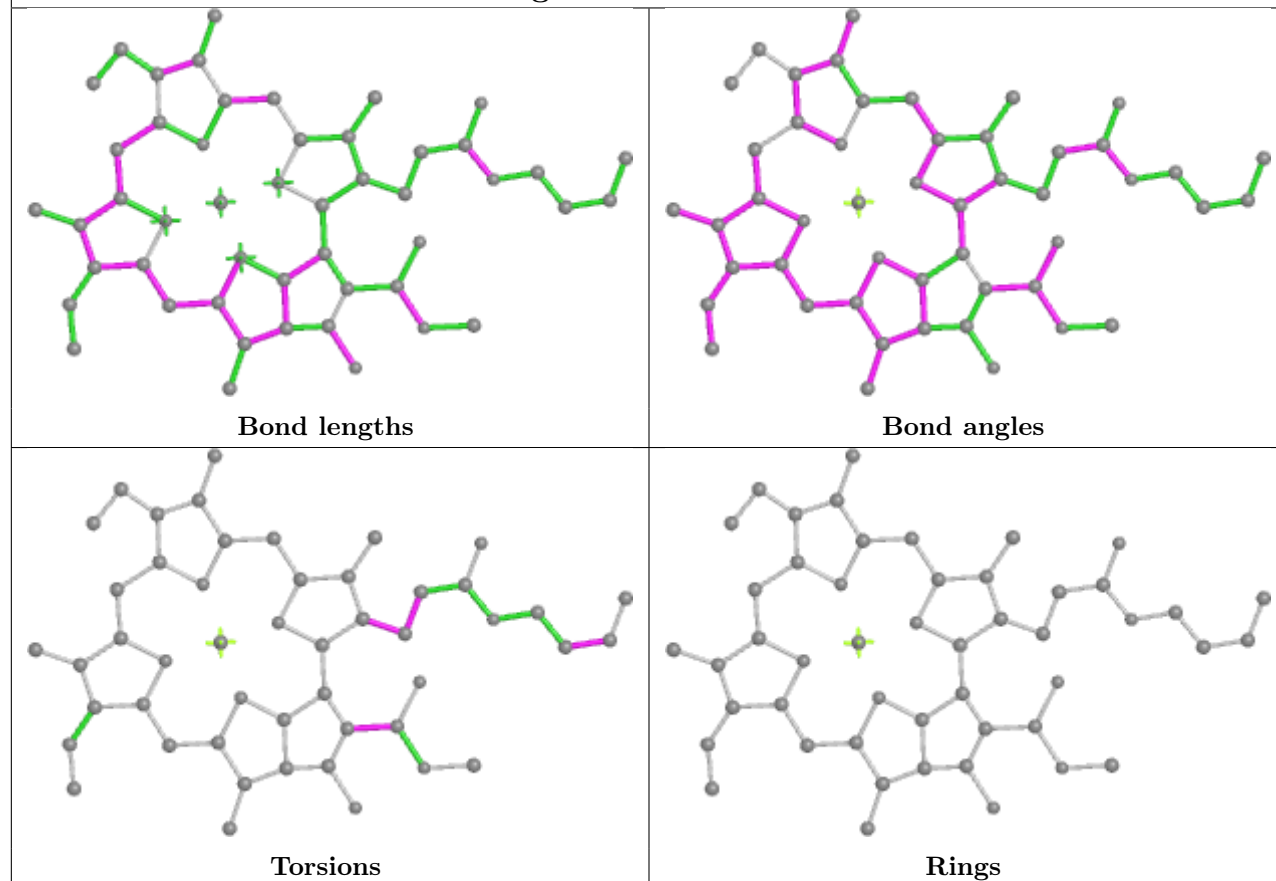
Ligand CLA B 834



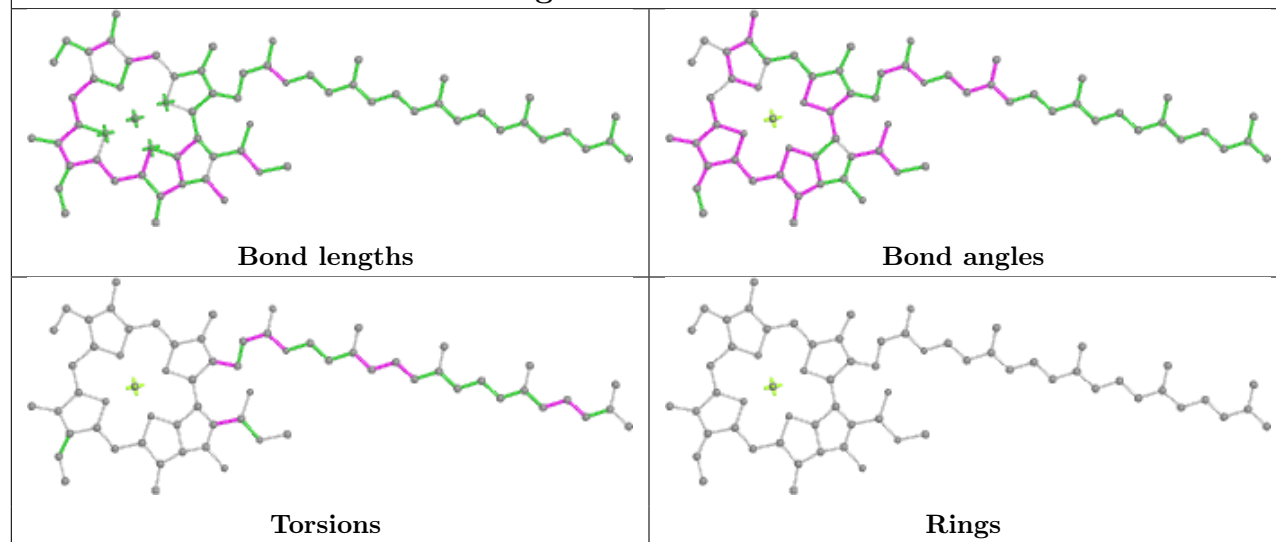
Ligand CLA a 815



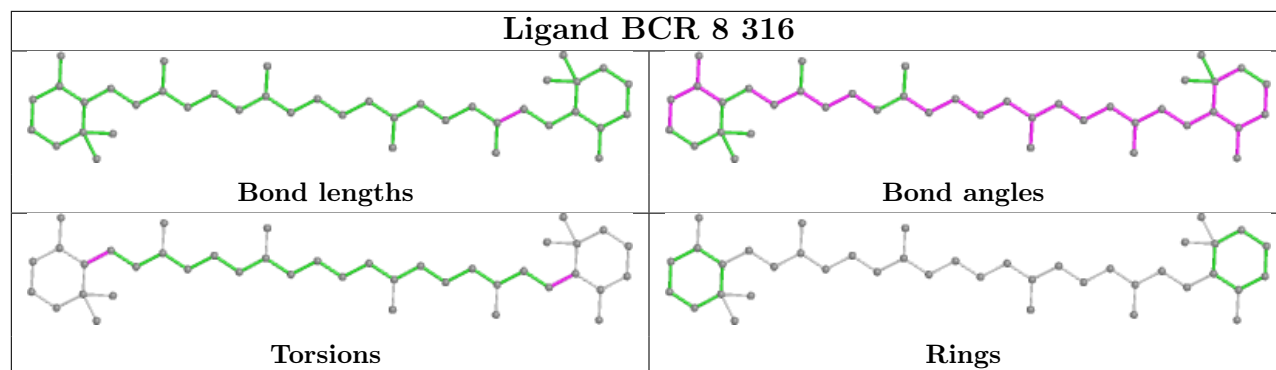
Ligand CLA A 823



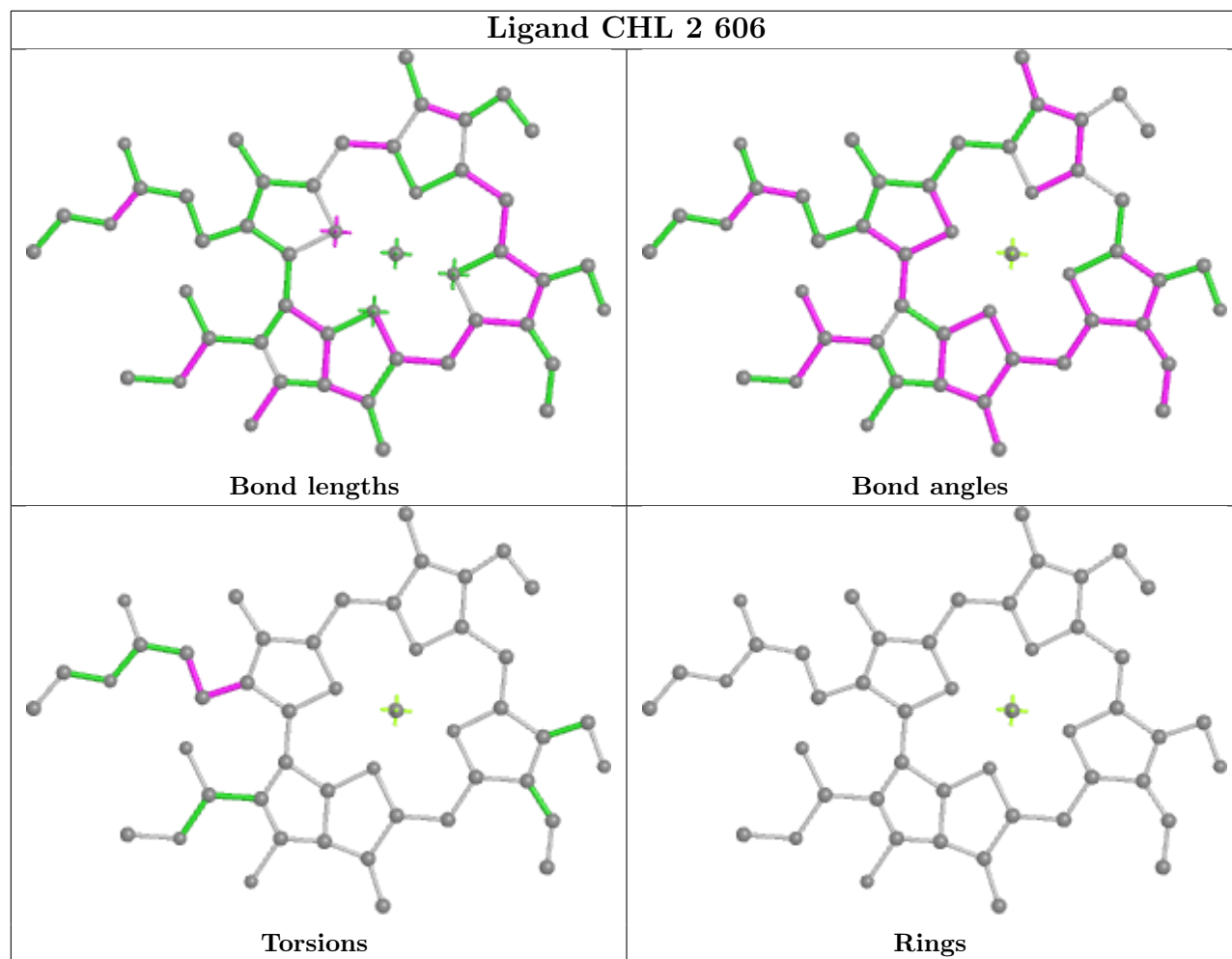
Ligand CLA b 813



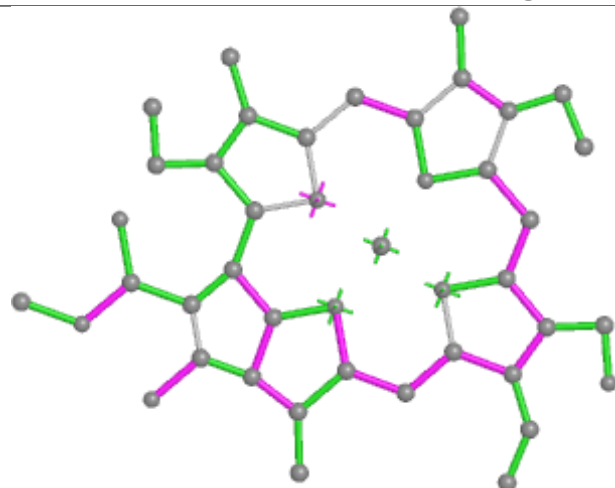
Ligand BCR 8 316



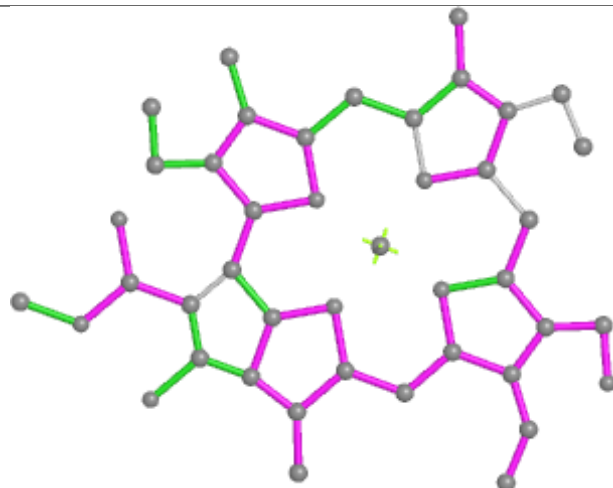
Ligand CHL 2 606



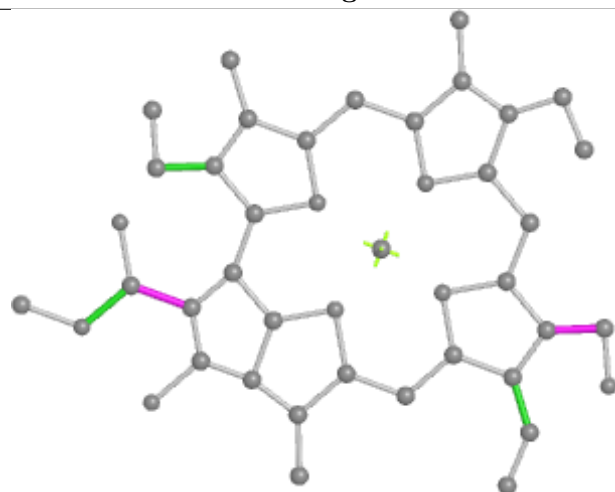
Ligand CHL 7 605



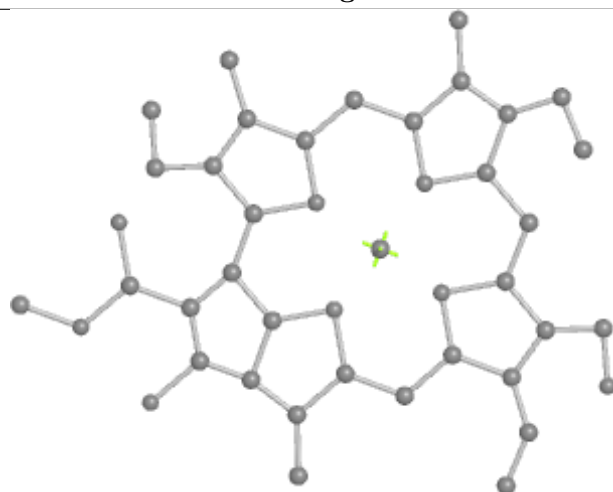
Bond lengths



Bond angles

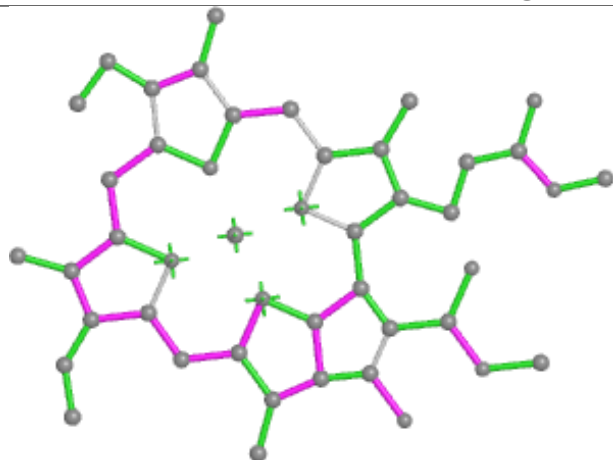


Torsions

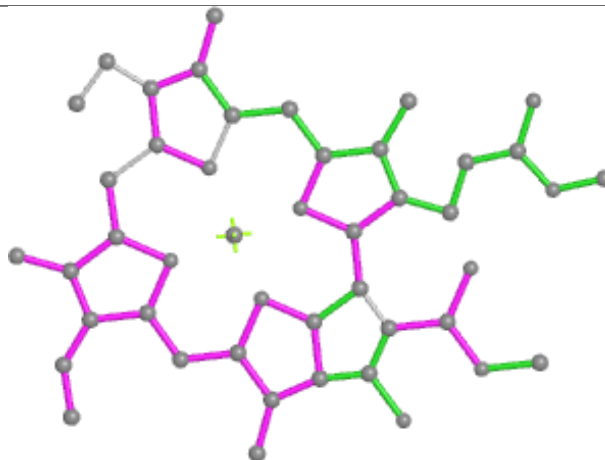


Rings

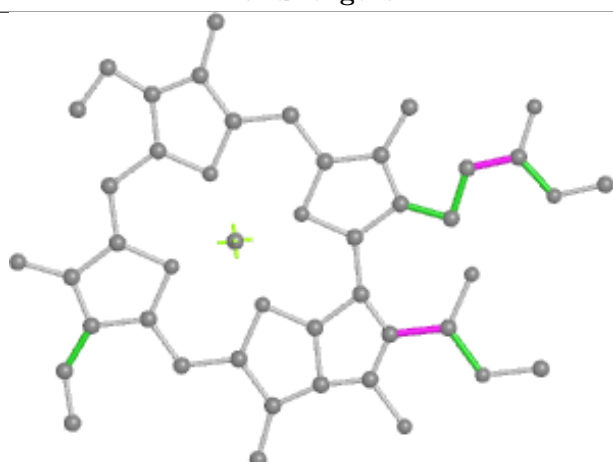
Ligand CLA 4 601



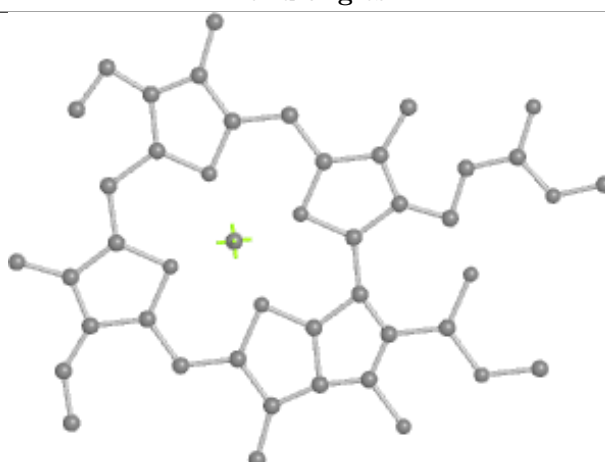
Bond lengths



Bond angles

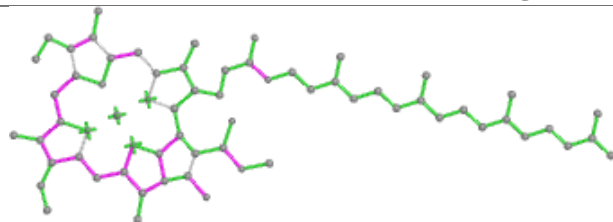


Torsions

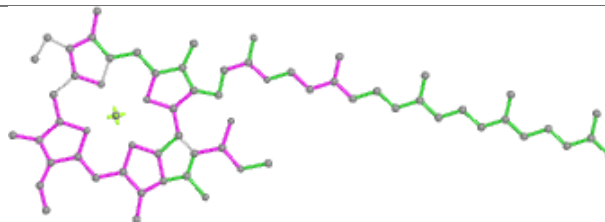


Rings

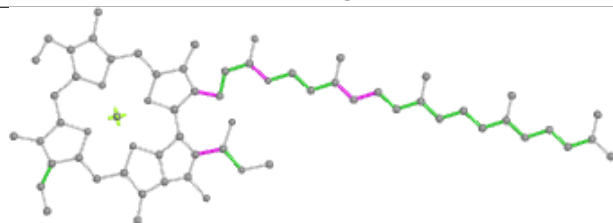
Ligand CLA L 202



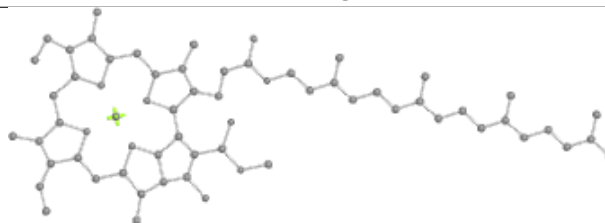
Bond lengths



Bond angles

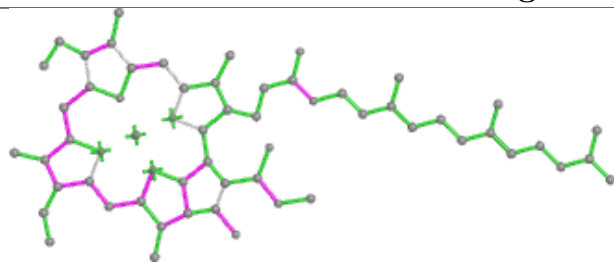


Torsions

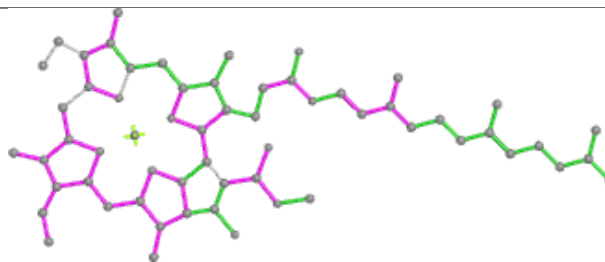


Rings

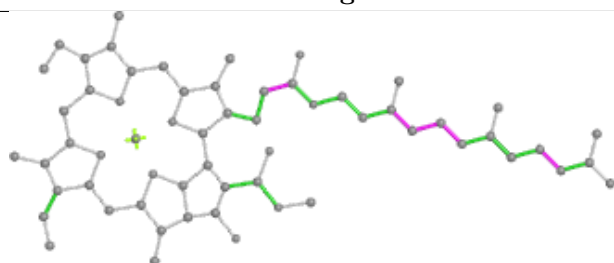
Ligand CLA 6 314



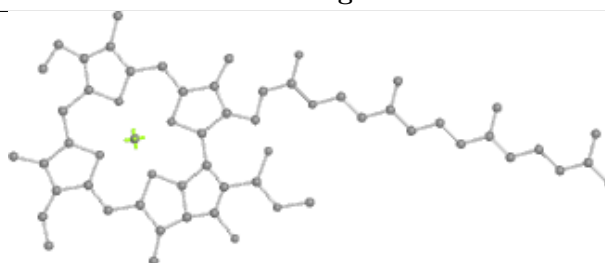
Bond lengths



Bond angles

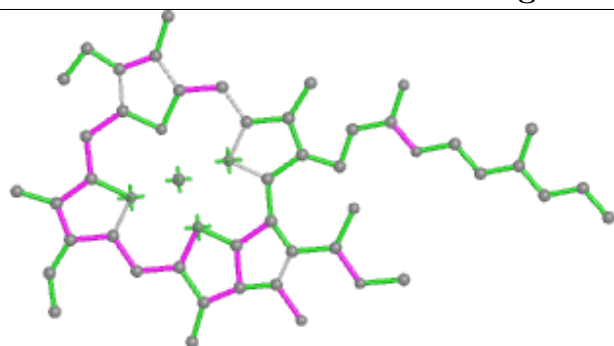


Torsions

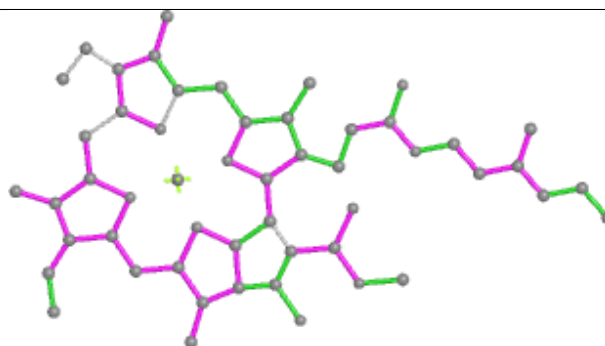


Rings

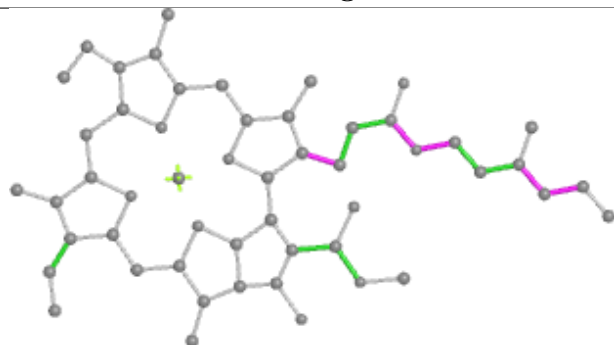
Ligand CLA 1 312



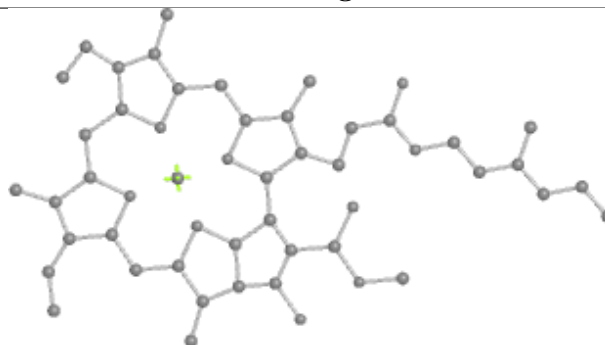
Bond lengths



Bond angles

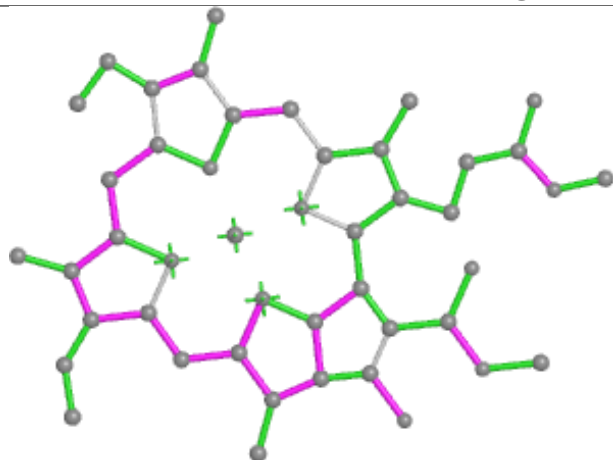


Torsions

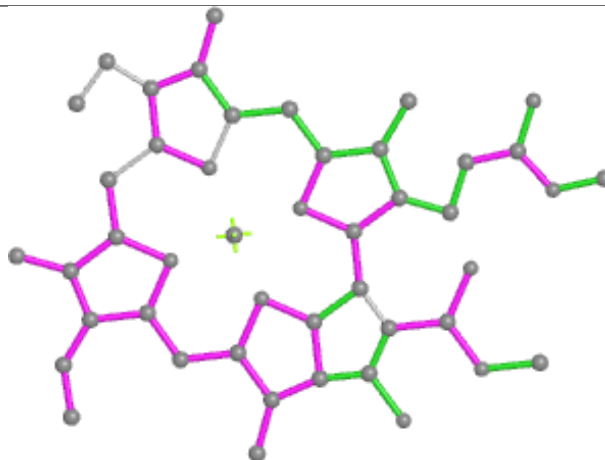


Rings

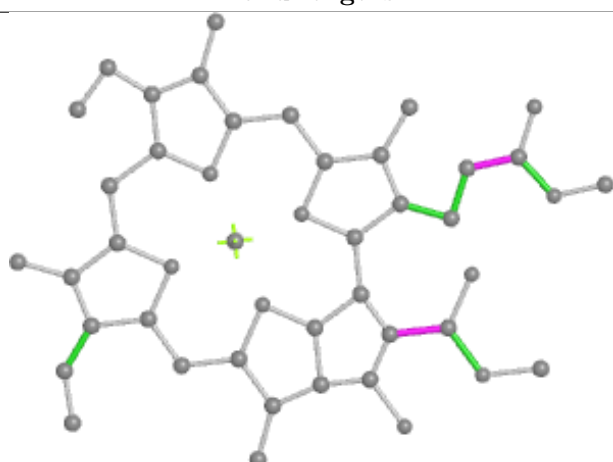
Ligand CLA G 104



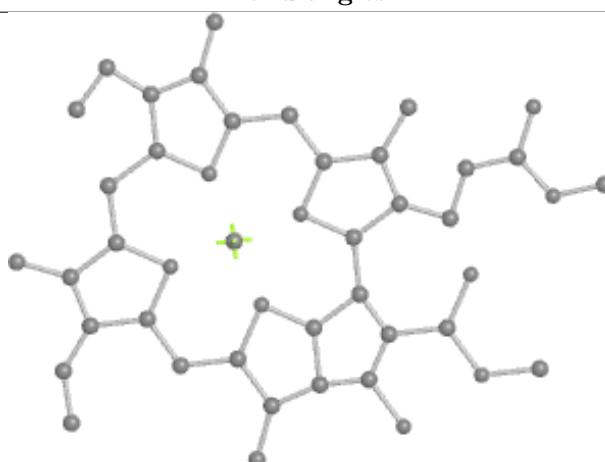
Bond lengths



Bond angles

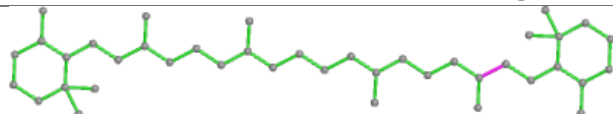


Torsions

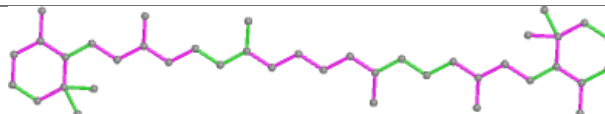


Rings

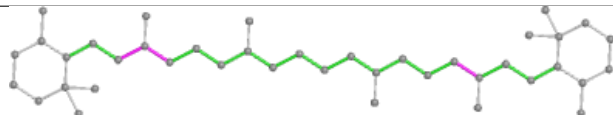
Ligand BCR B 845



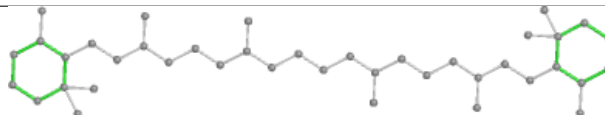
Bond lengths



Bond angles

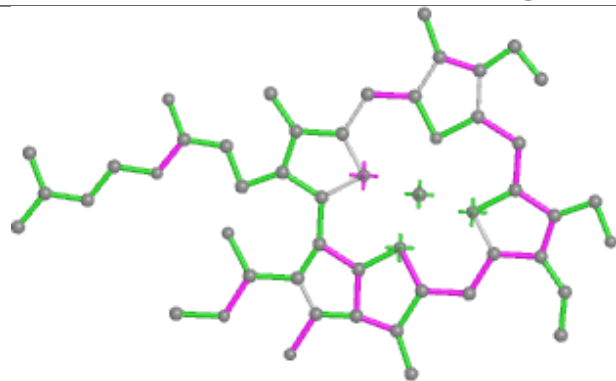


Torsions

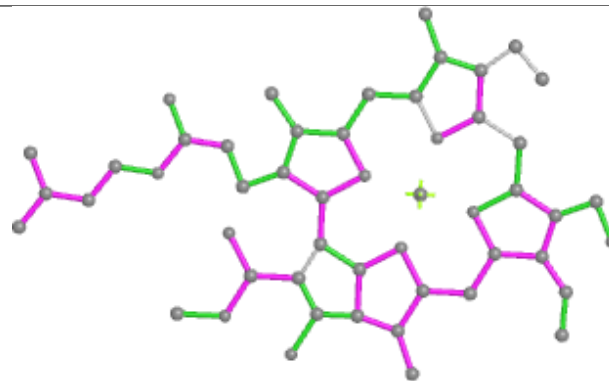


Rings

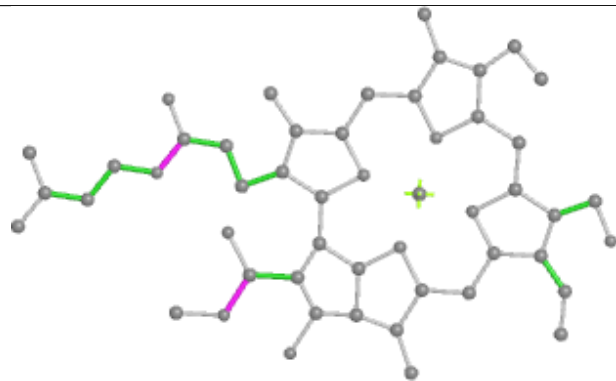
Ligand CHL 7 607



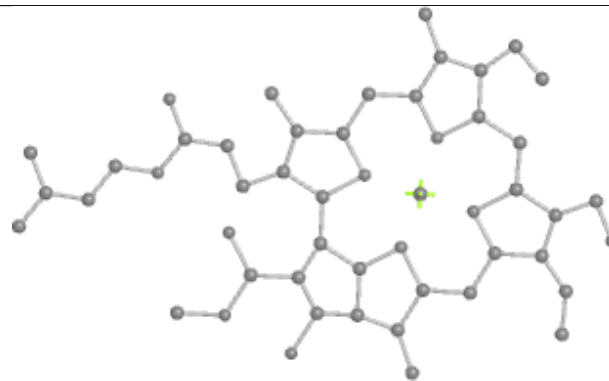
Bond lengths



Bond angles

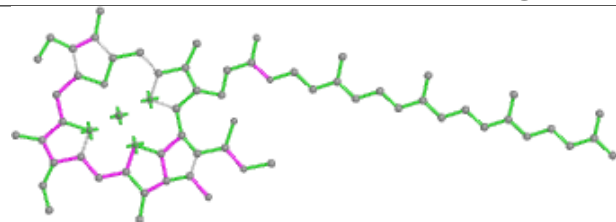


Torsions

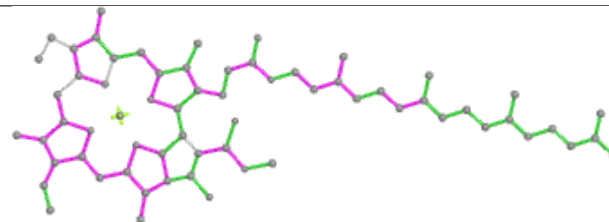


Rings

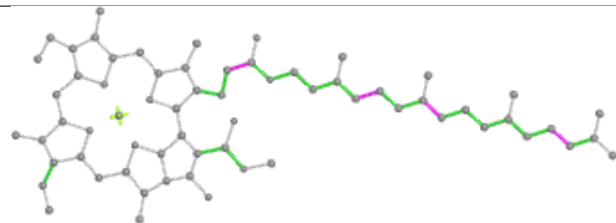
Ligand CLA A 802



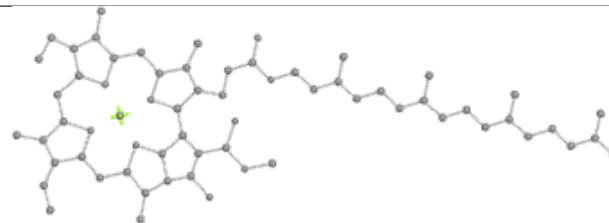
Bond lengths



Bond angles

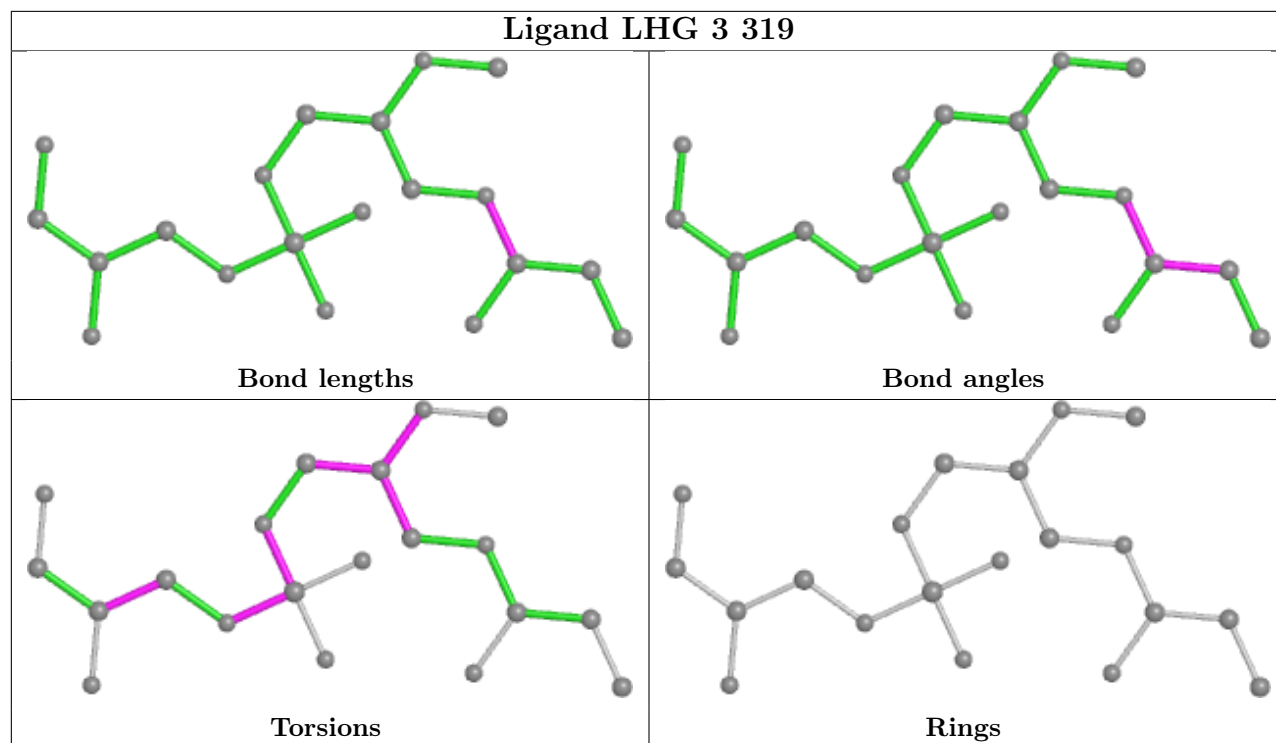


Torsions

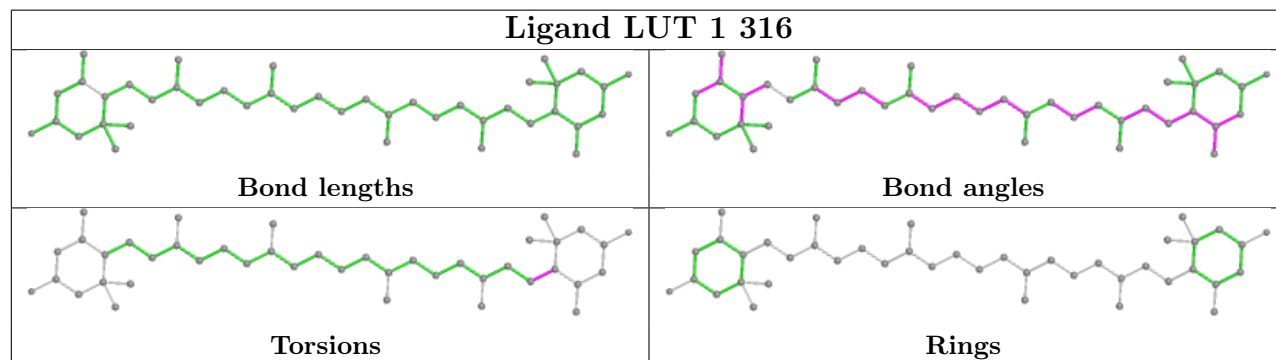


Rings

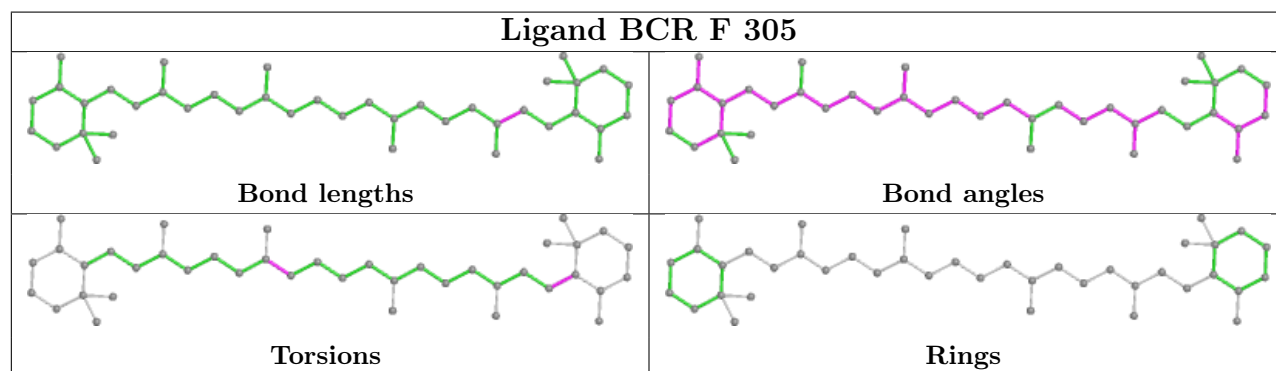
Ligand LHG 3 319



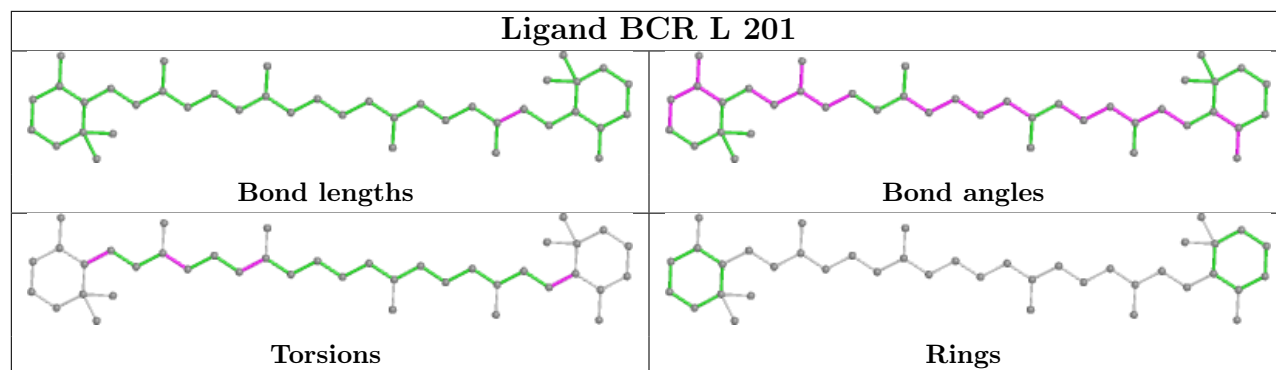
Ligand LUT 1 316



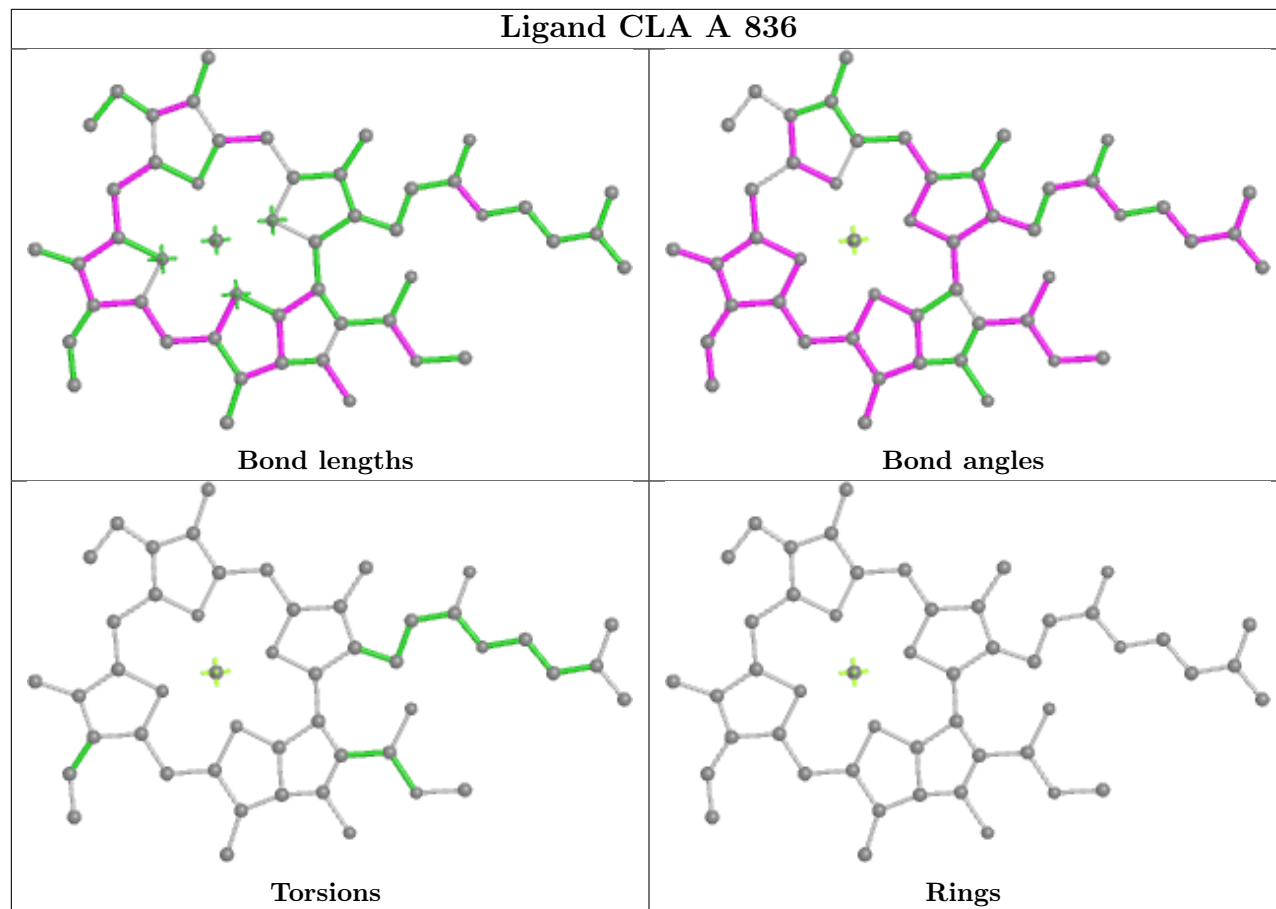
Ligand BCR F 305



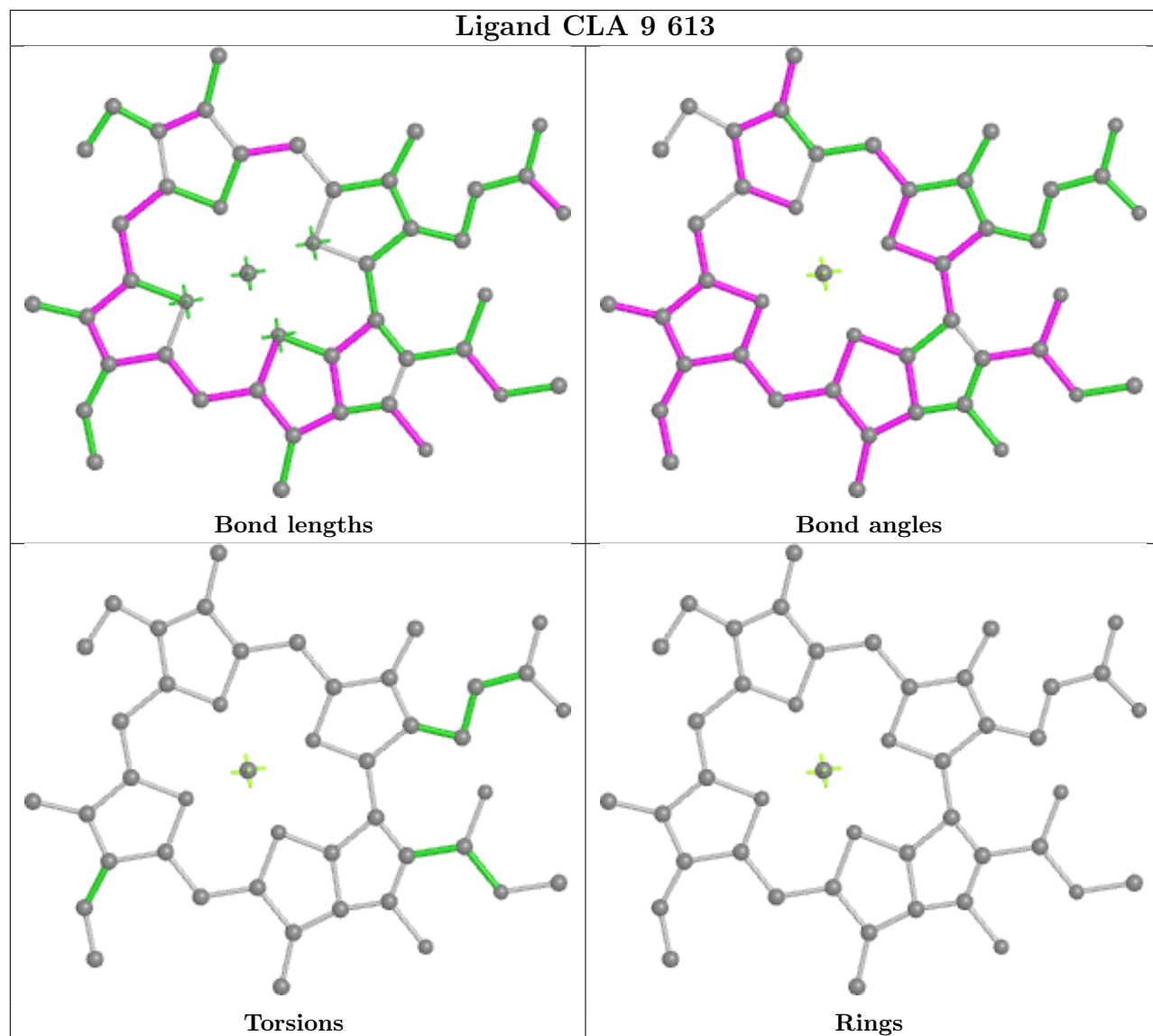
Ligand BCR L 201



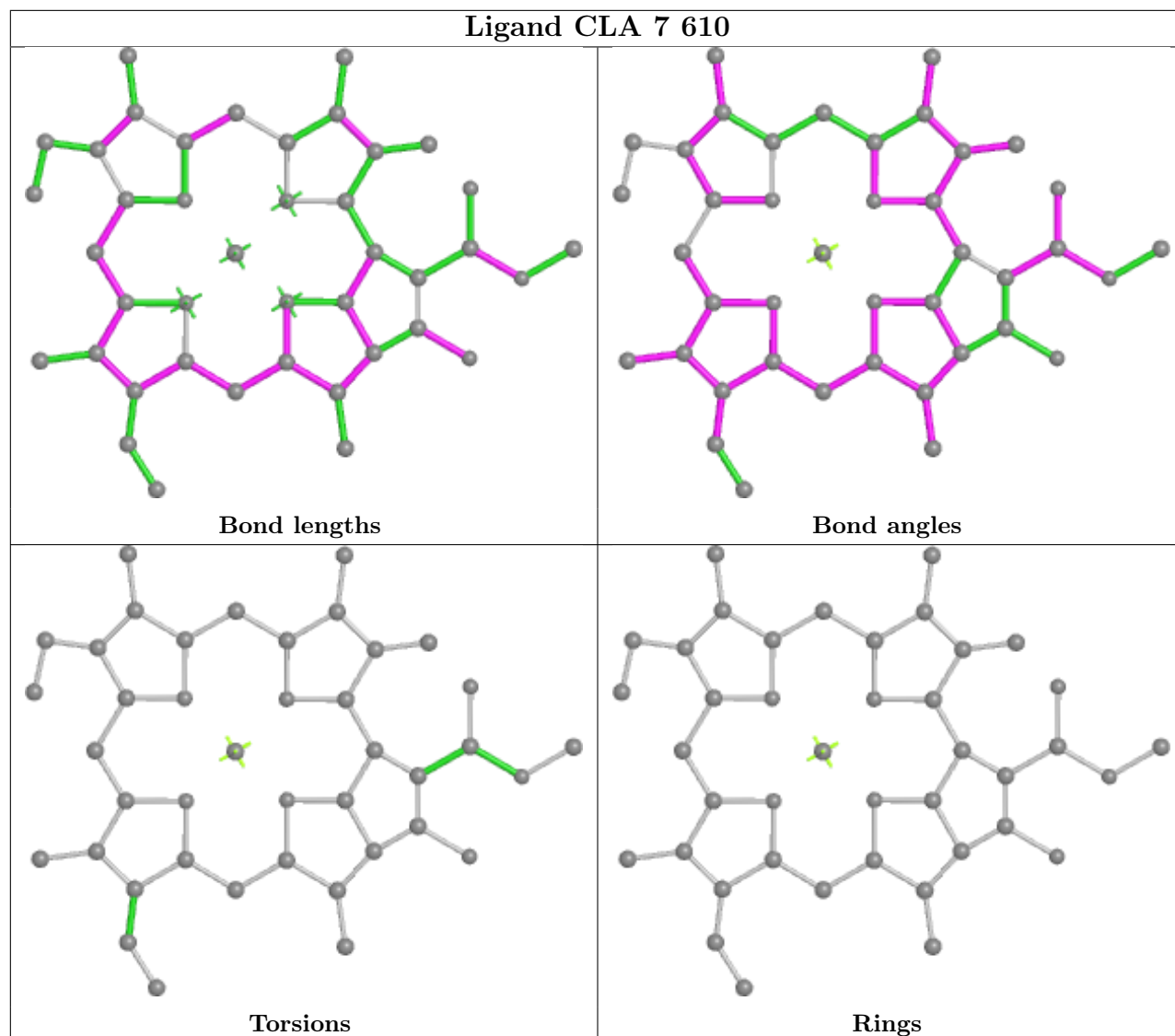
Ligand CLA A 836



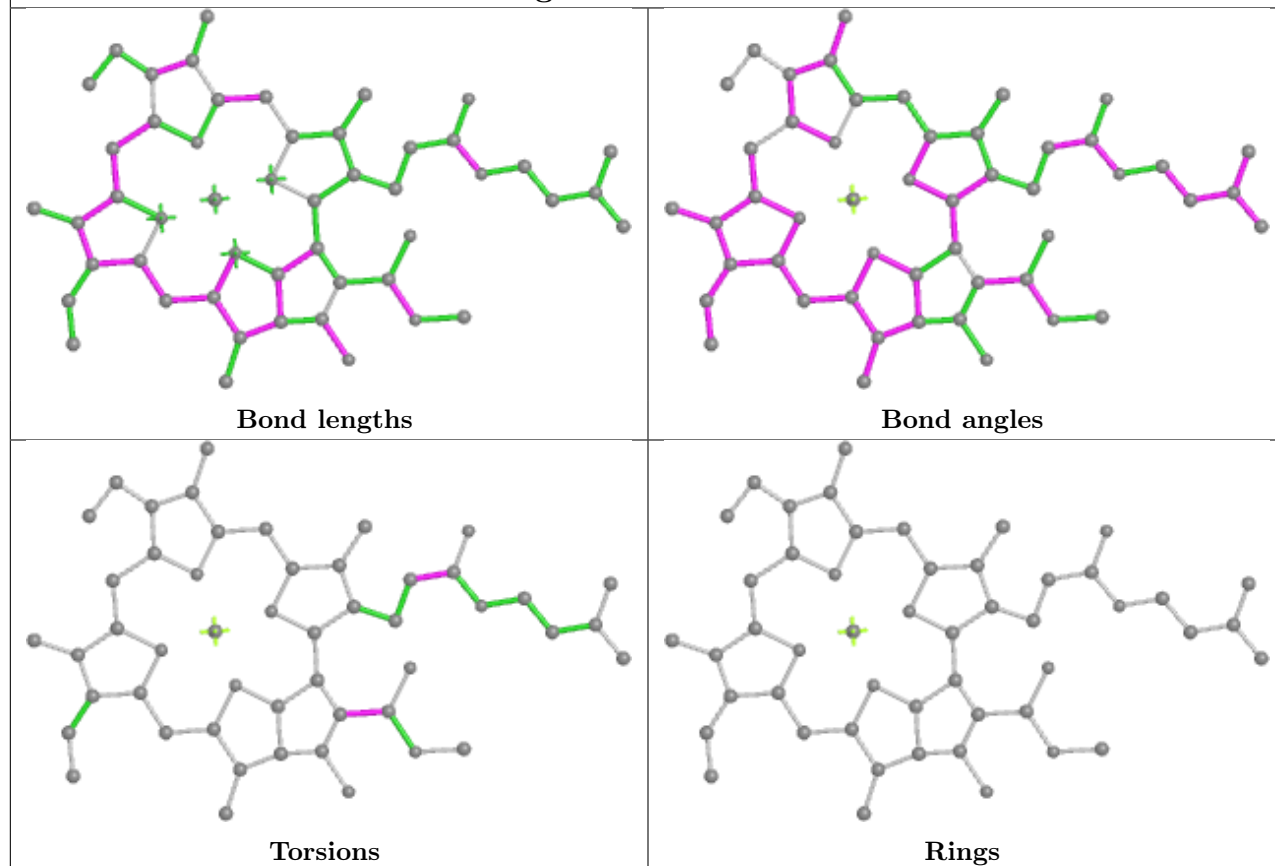
Ligand CLA 9 613



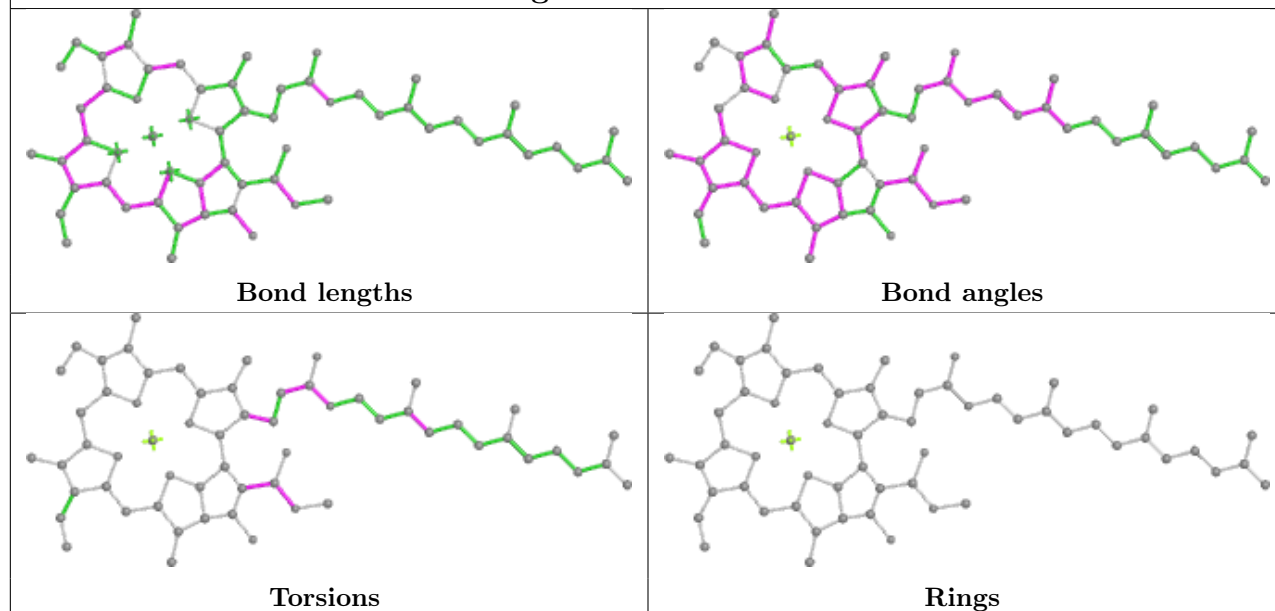
Ligand CLA 7 610



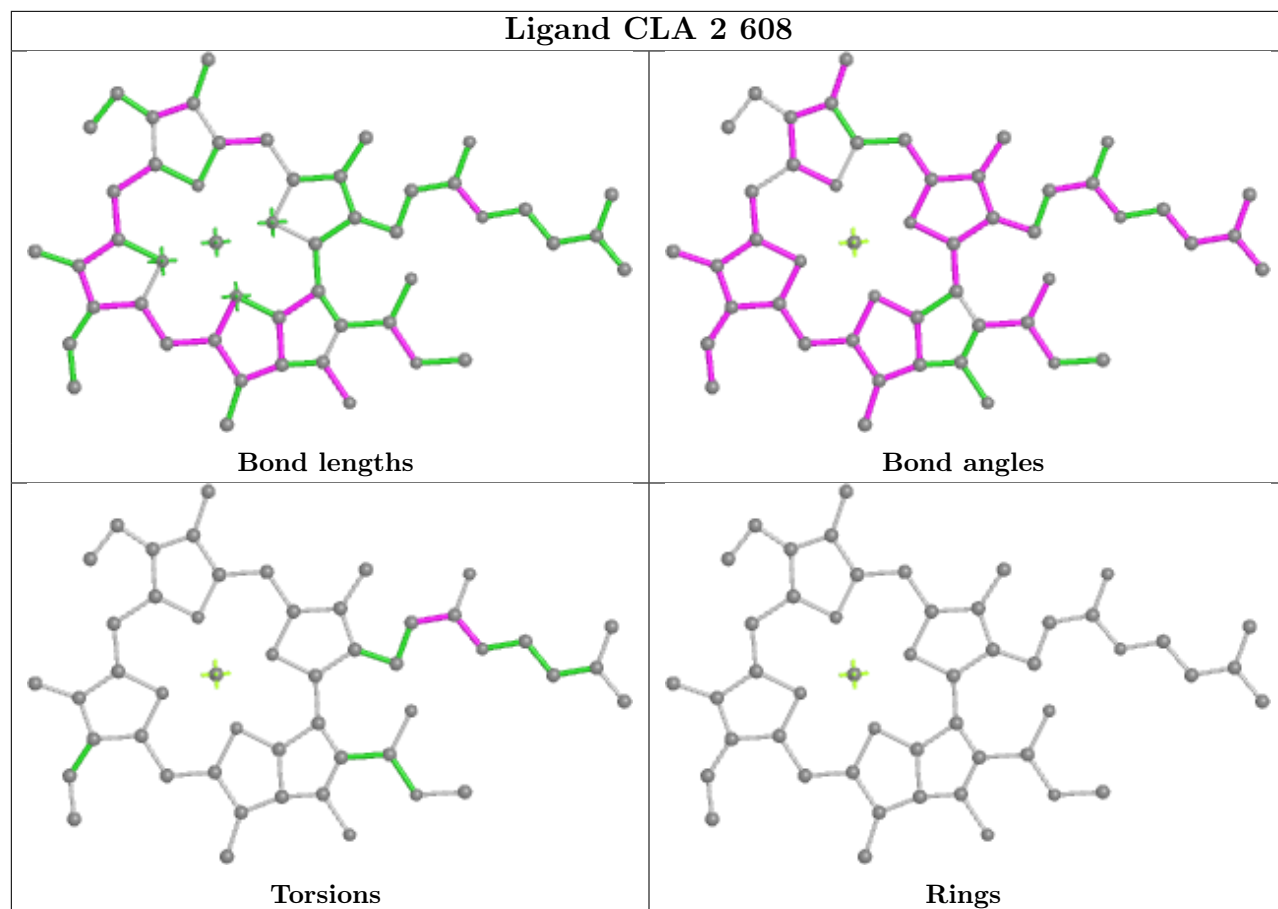
Ligand CLA 3 303



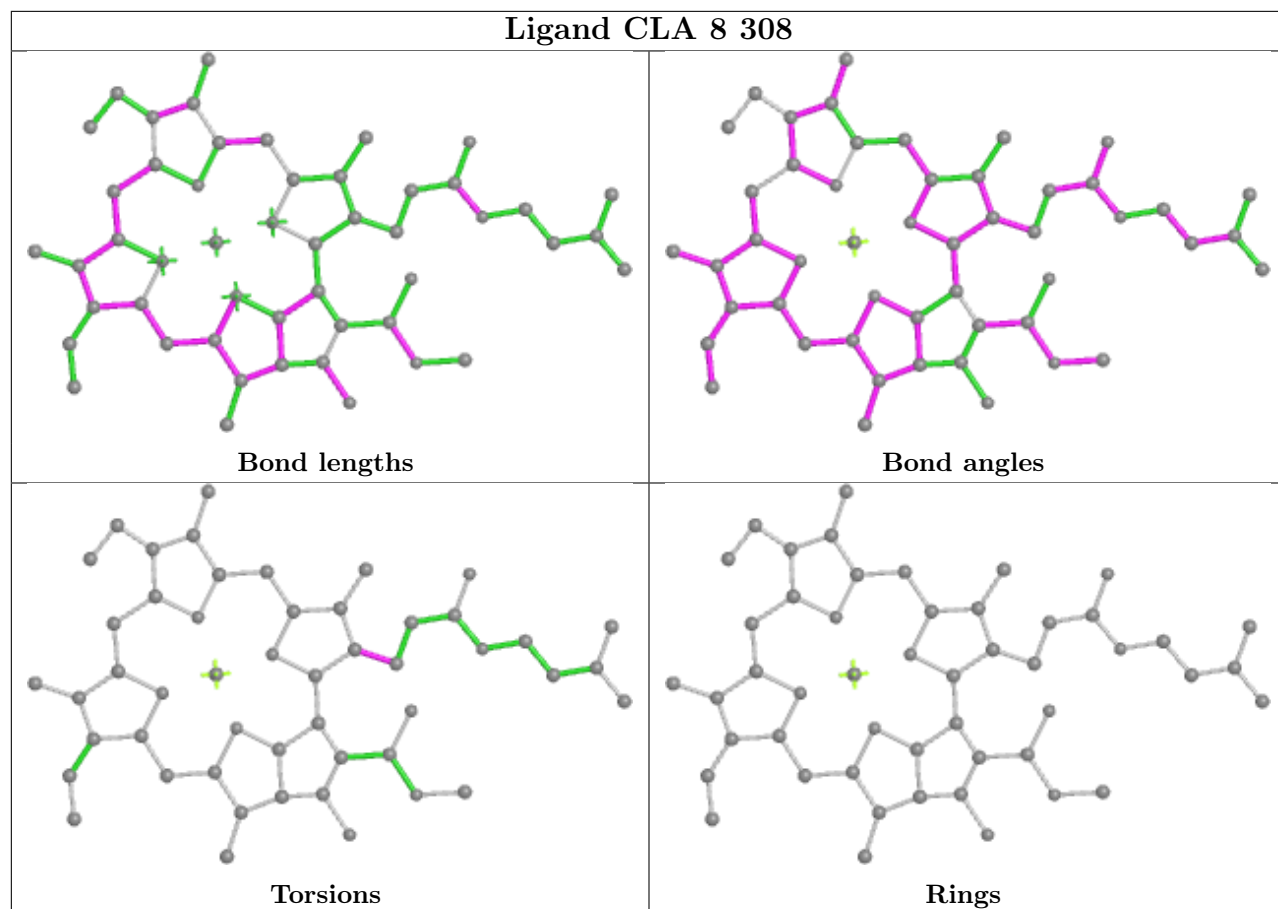
Ligand CLA B 823



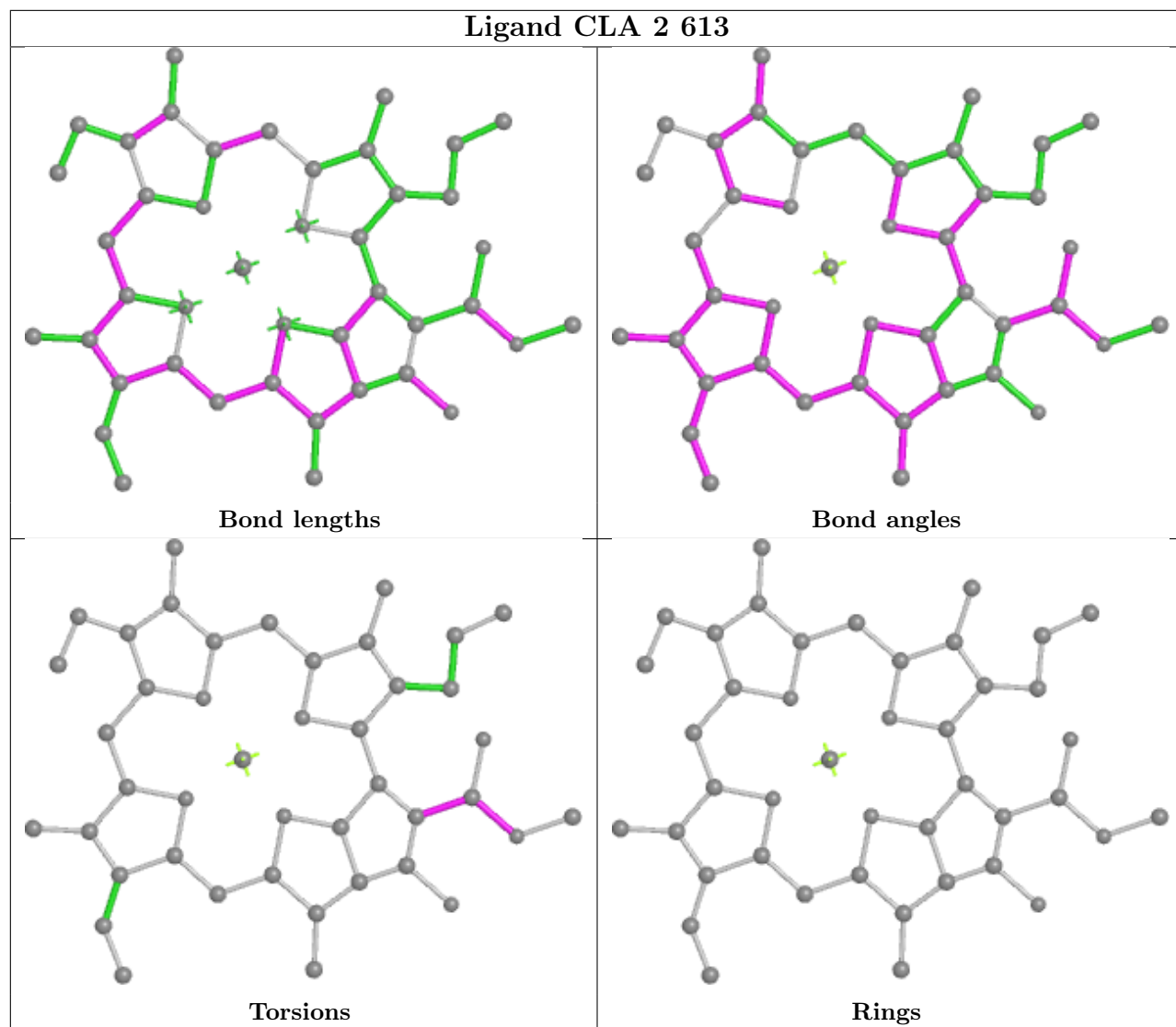
Ligand CLA 2 608



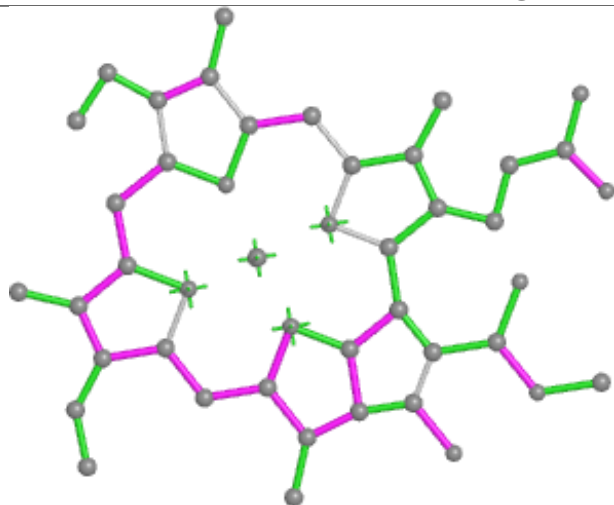
Ligand CLA 8 308



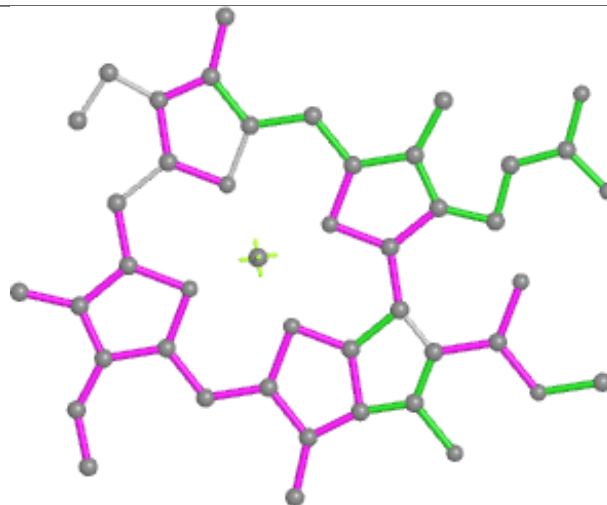
Ligand CLA 2 613



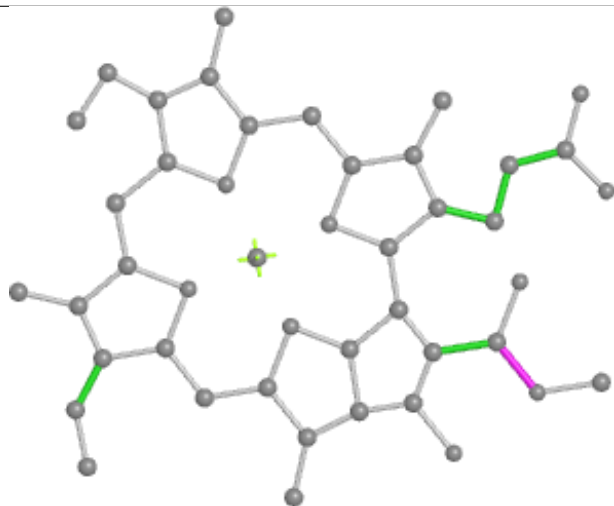
Ligand CLA G 101



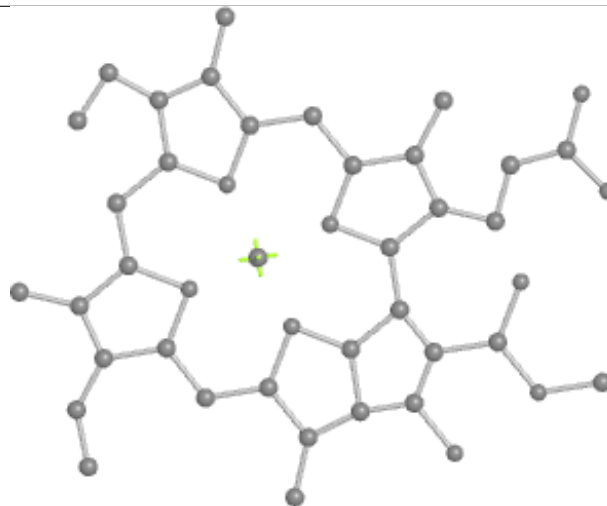
Bond lengths



Bond angles

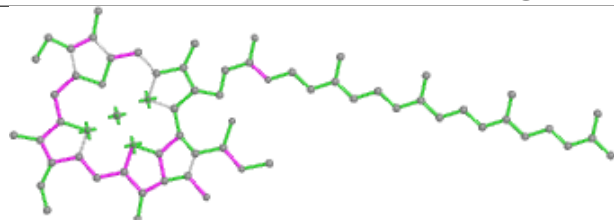


Torsions

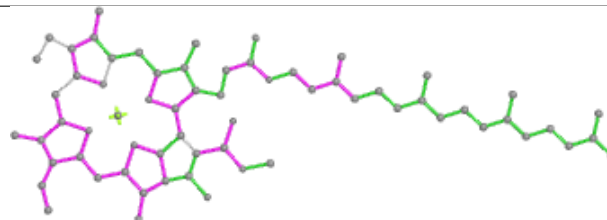


Rings

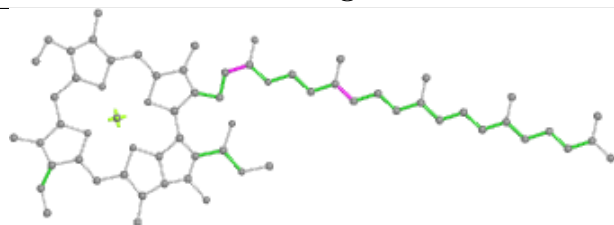
Ligand CLA b 841



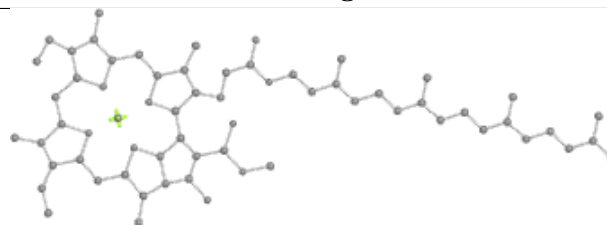
Bond lengths



Bond angles

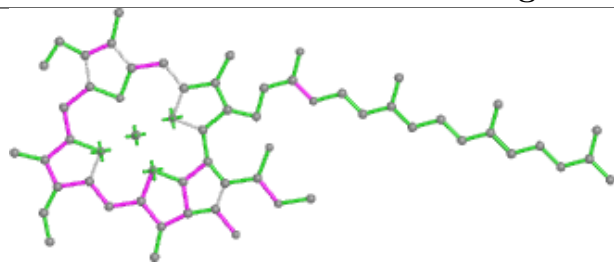


Torsions

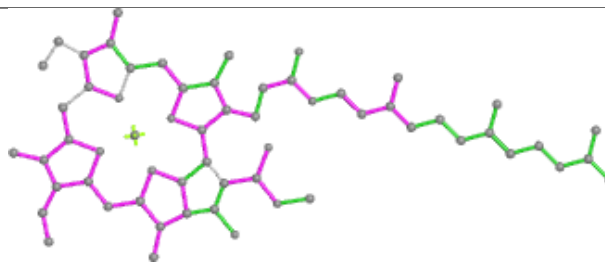


Rings

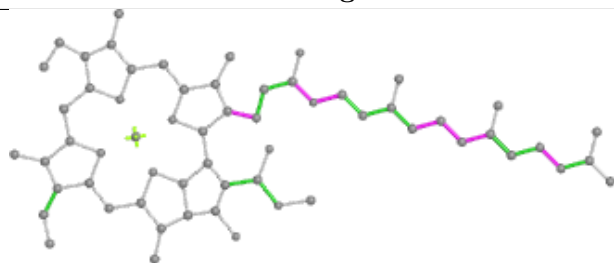
Ligand CLA 2 604



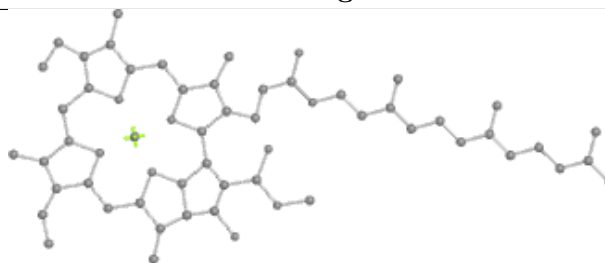
Bond lengths



Bond angles

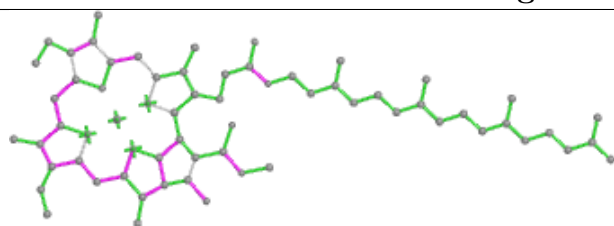


Torsions

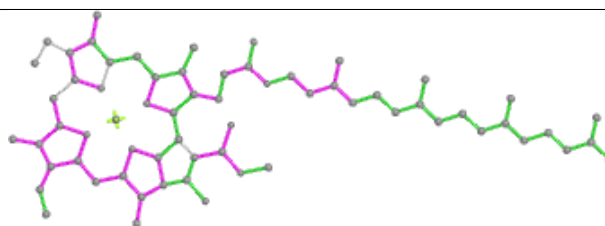


Rings

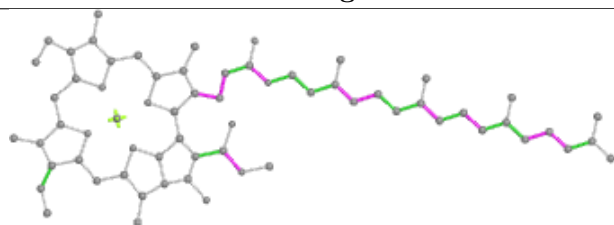
Ligand CLA b 827



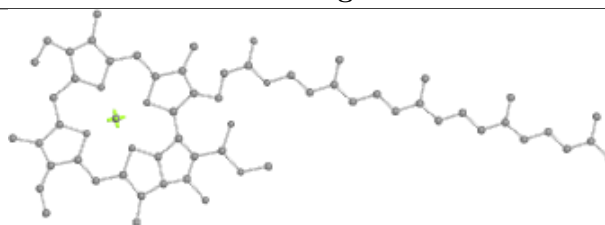
Bond lengths



Bond angles

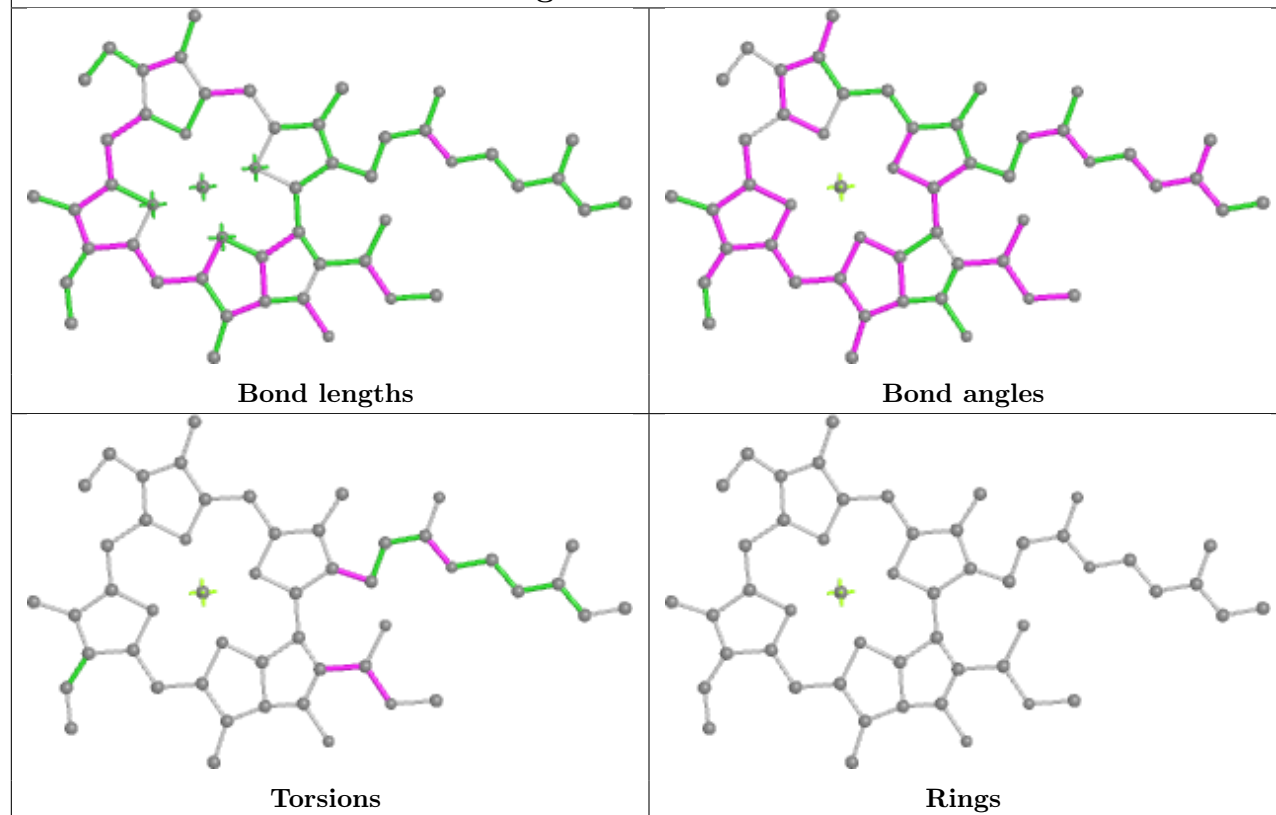


Torsions

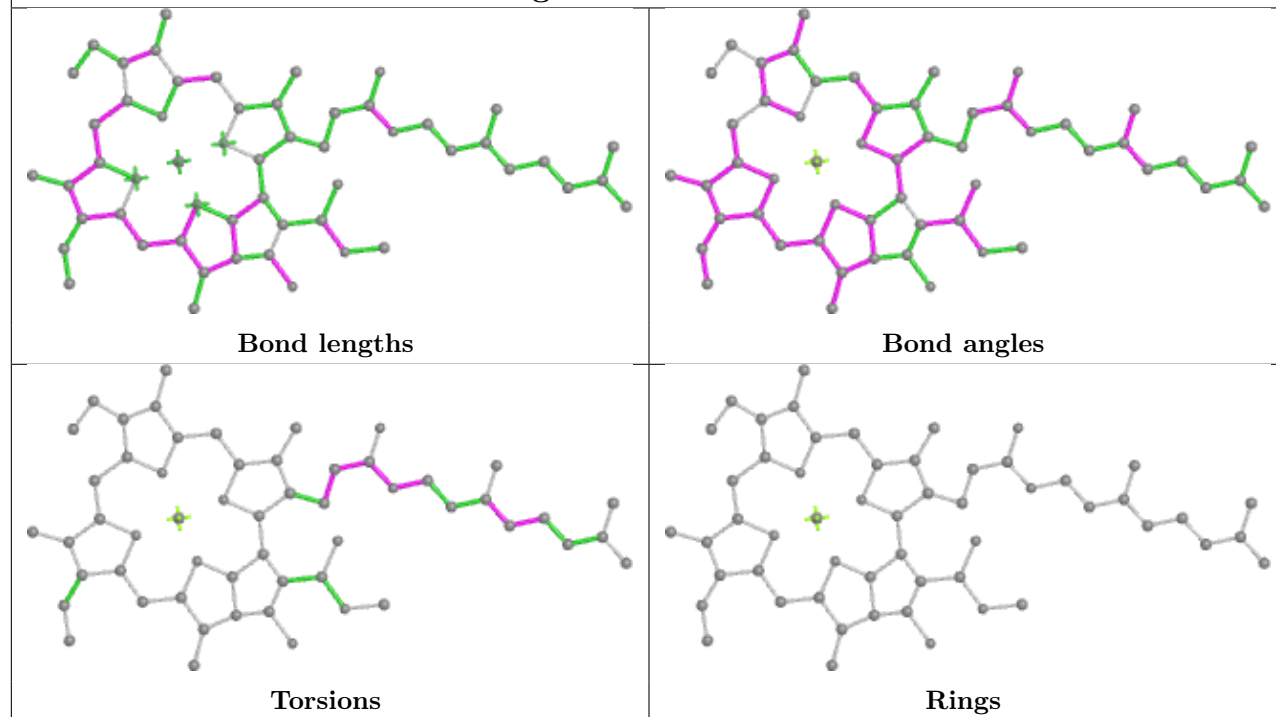


Rings

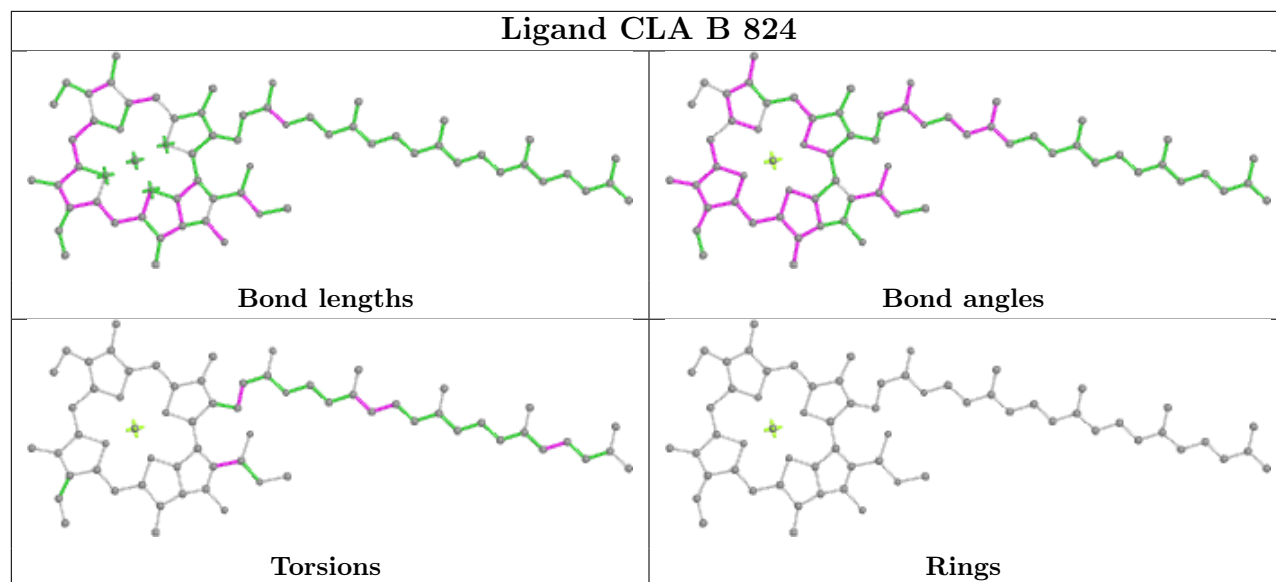
Ligand CLA a 824



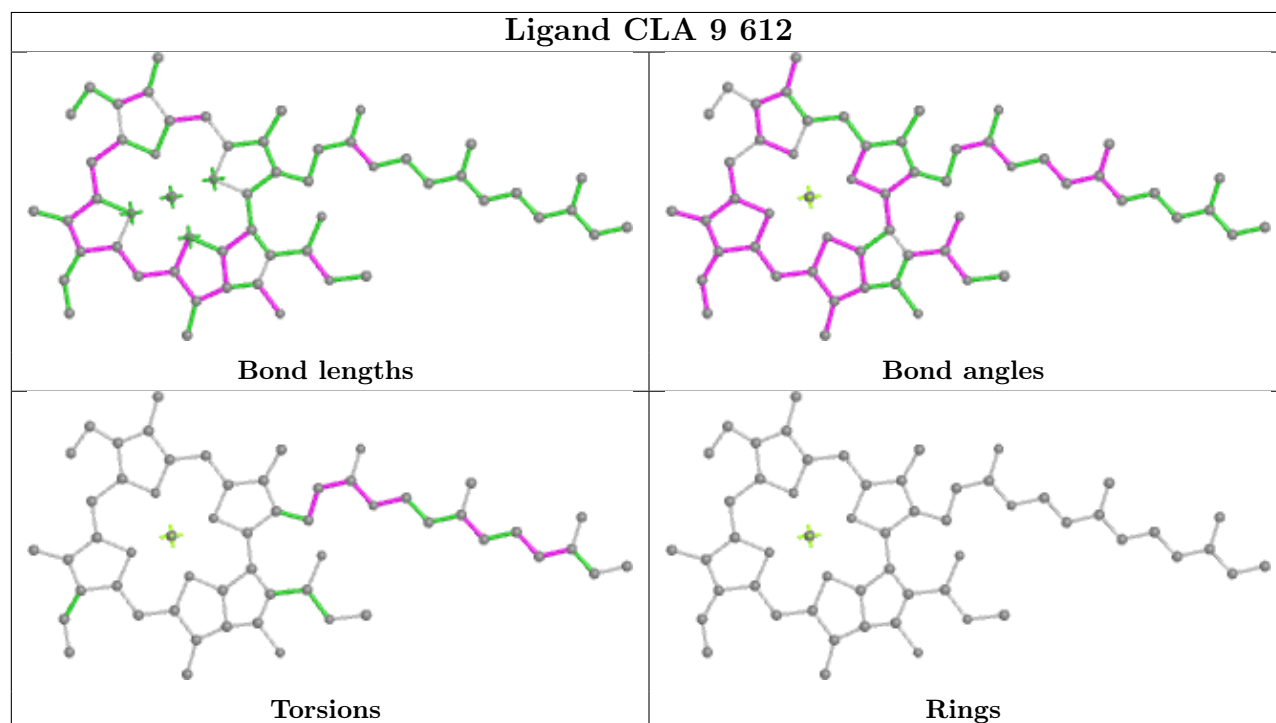
Ligand CLA B 816



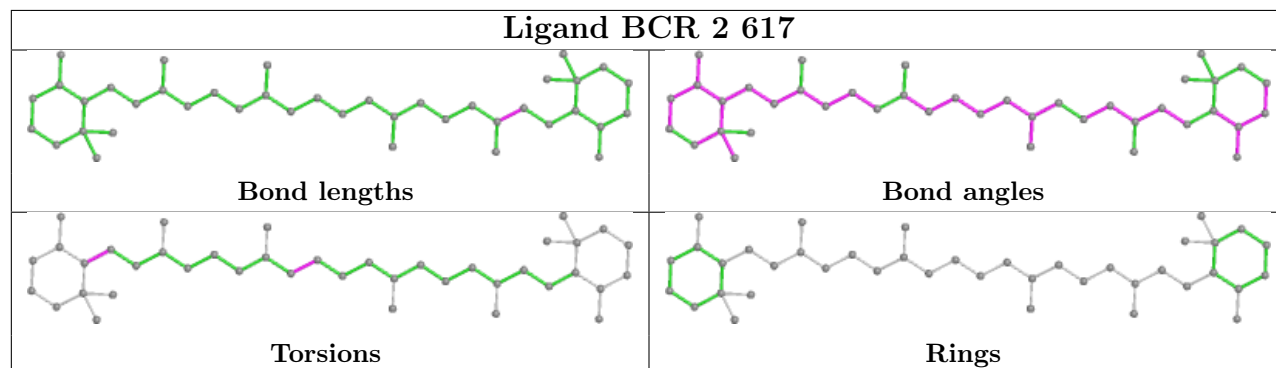
Ligand CLA B 824

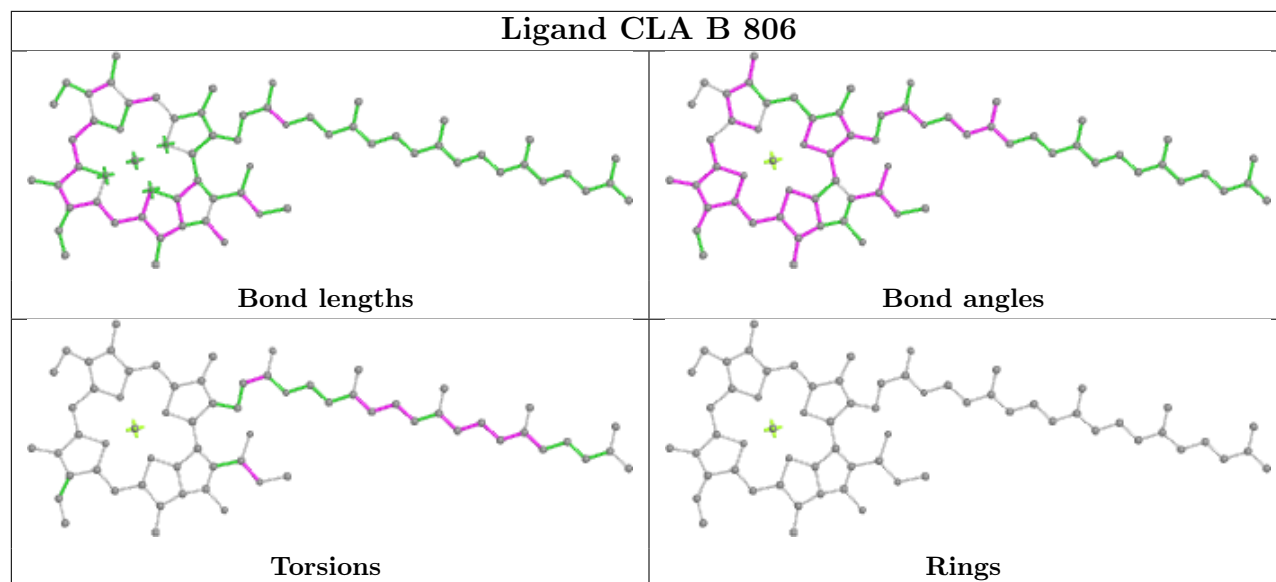
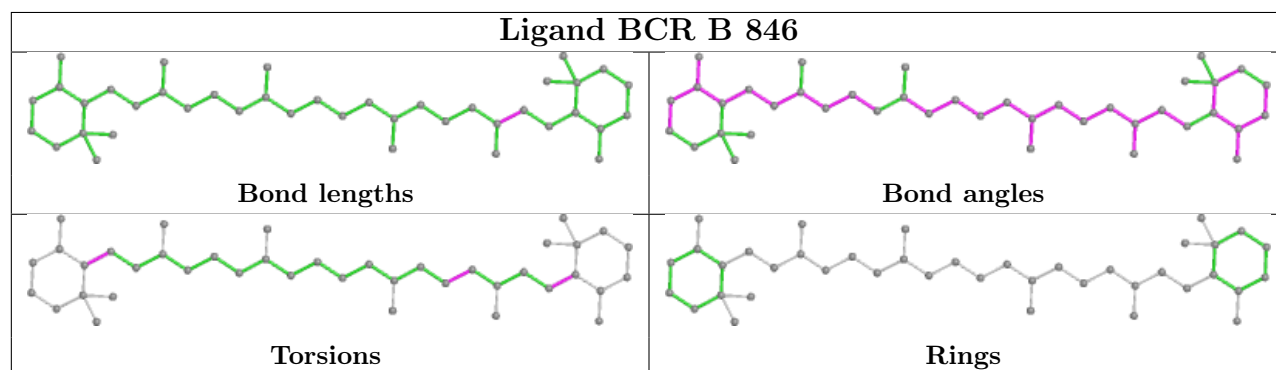
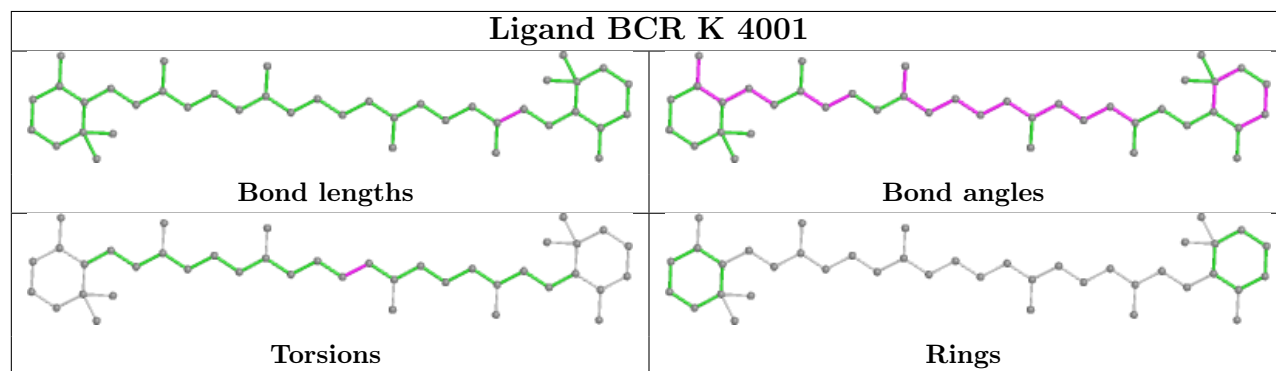


Ligand CLA 9 612

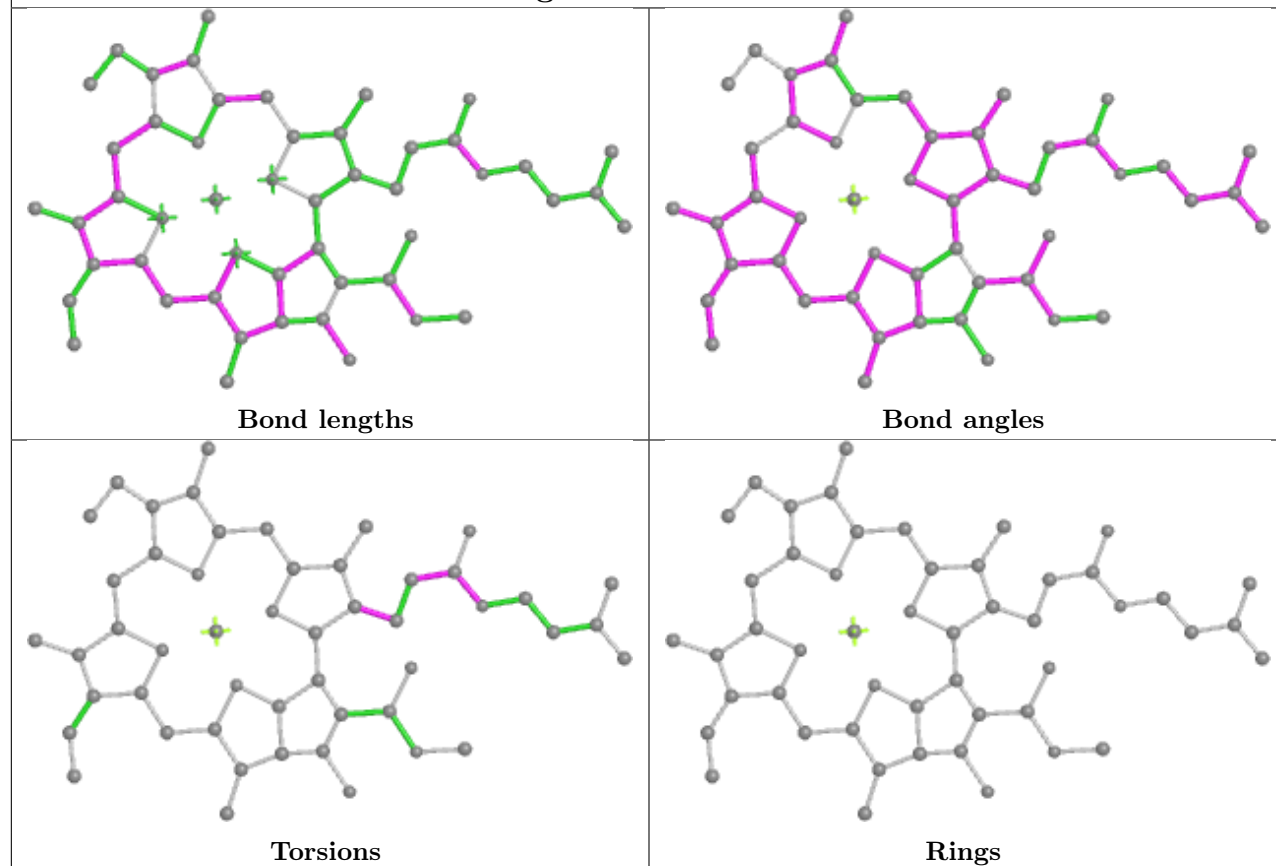


Ligand BCR 2 617

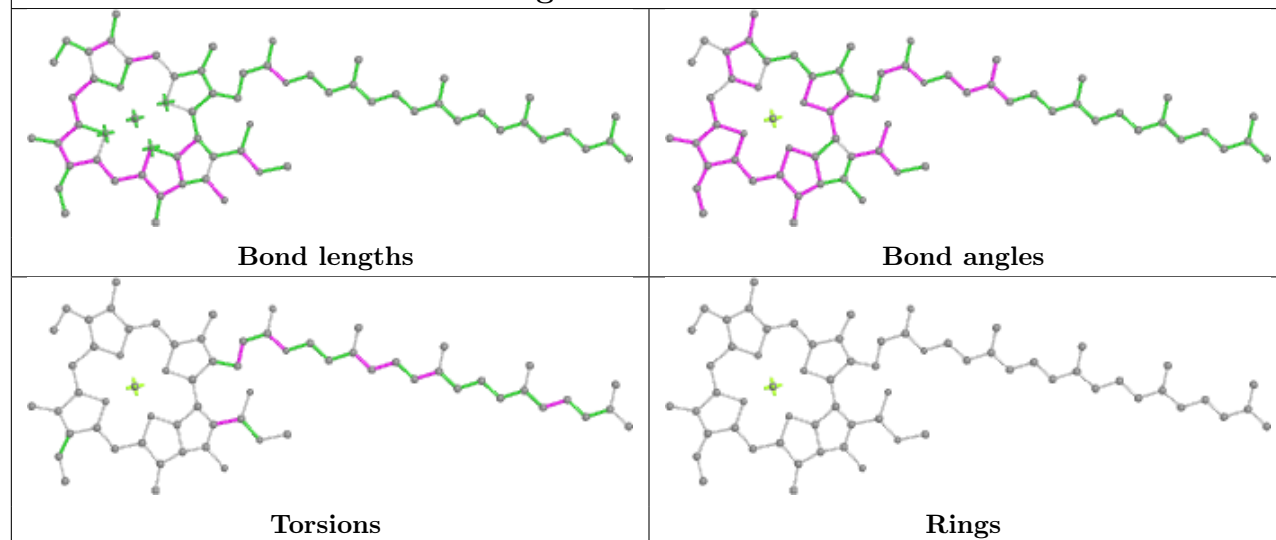


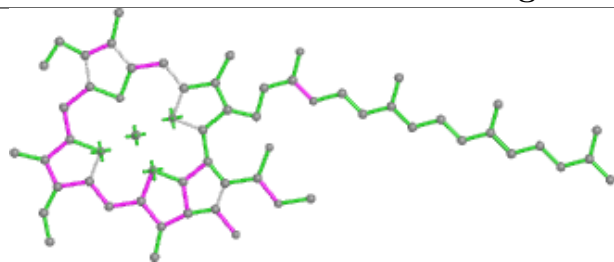
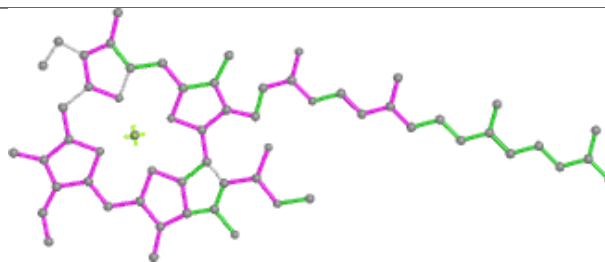
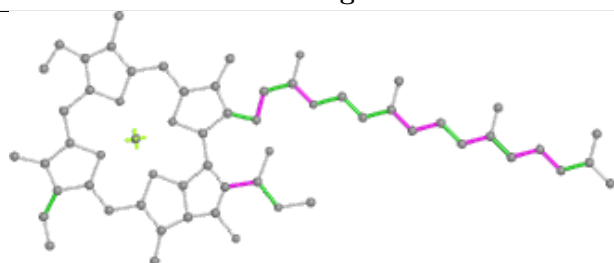
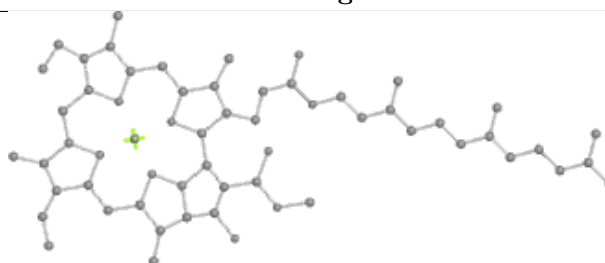
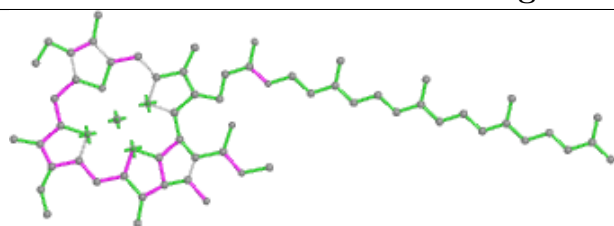
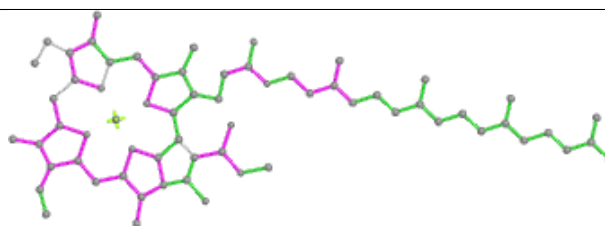
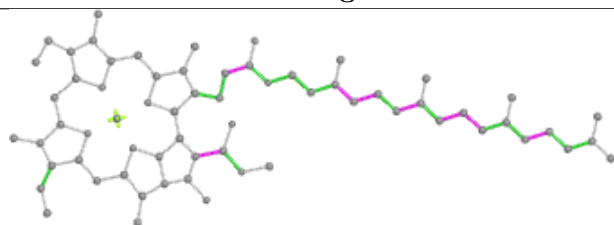
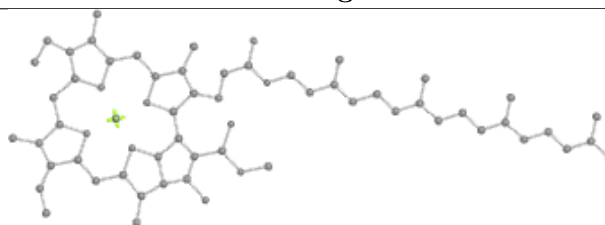
Ligand CLA B 806**Ligand BCR B 846****Ligand BCR K 4001**

Ligand CLA 7 608

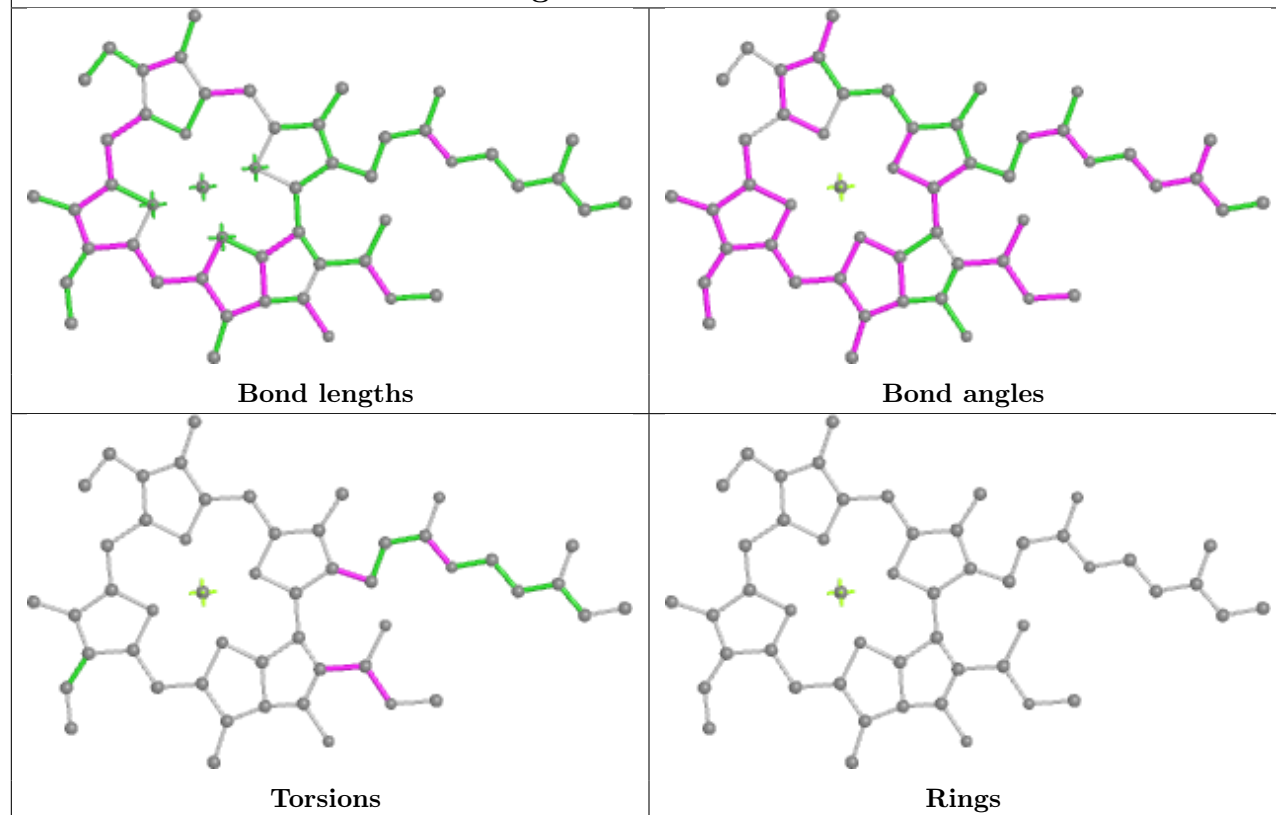


Ligand CLA 6 304

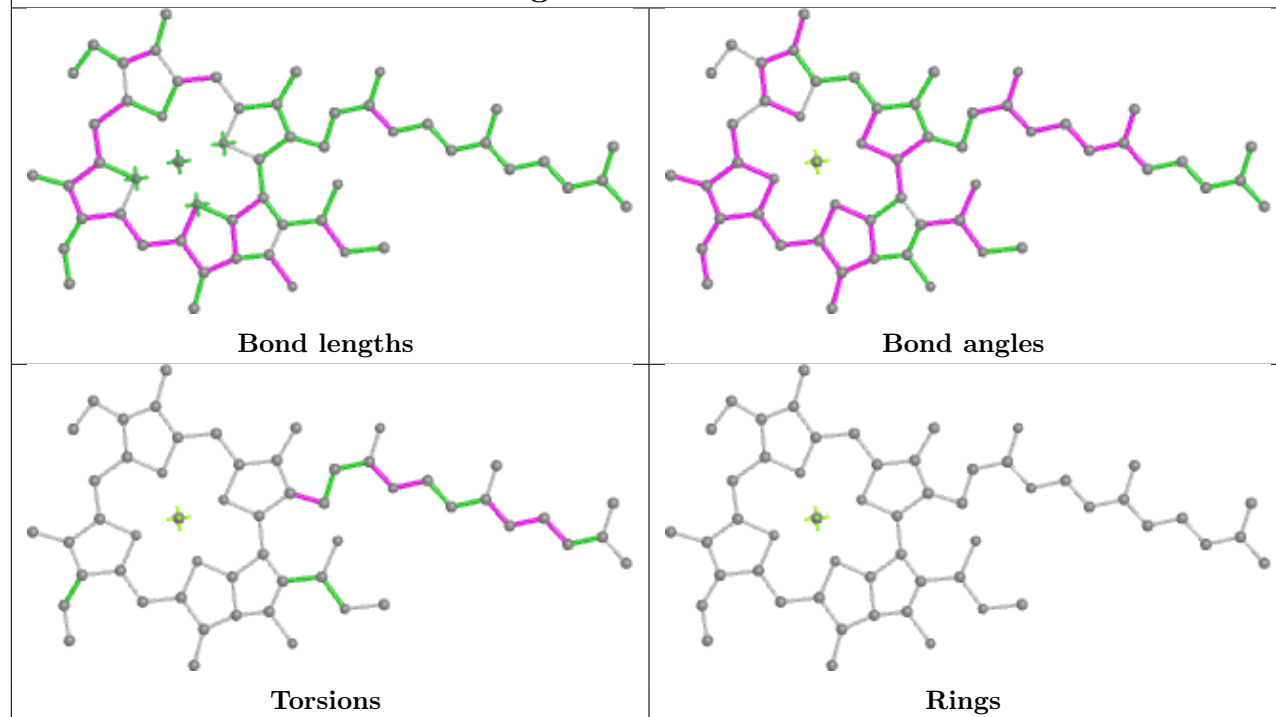


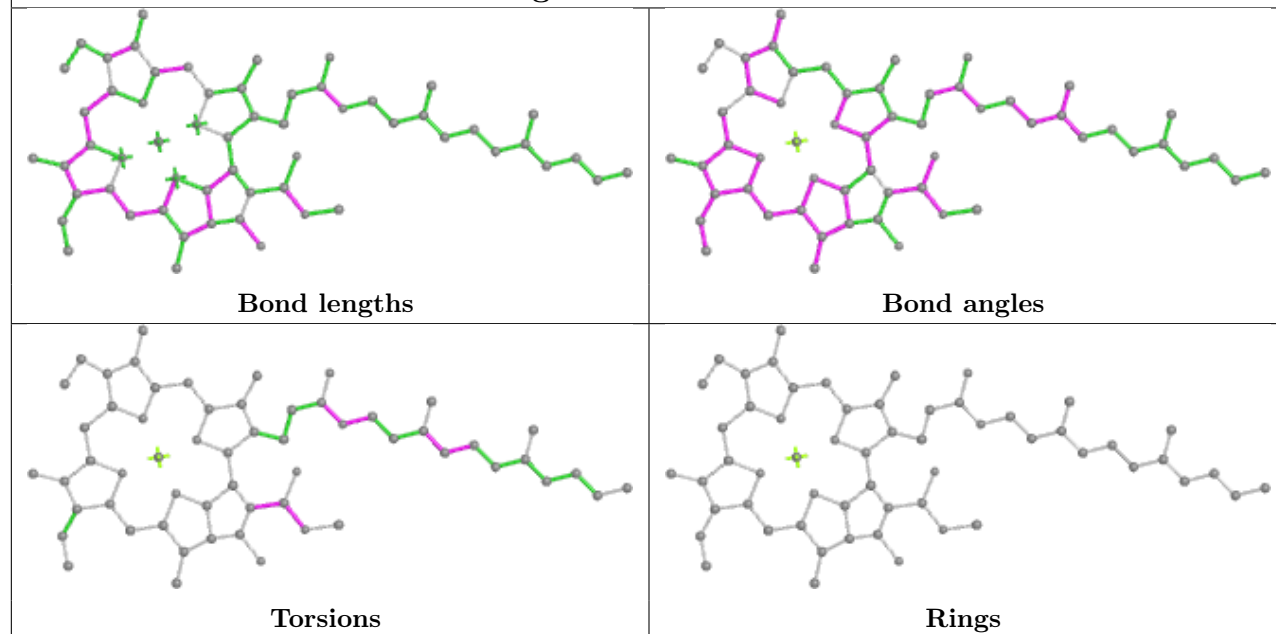
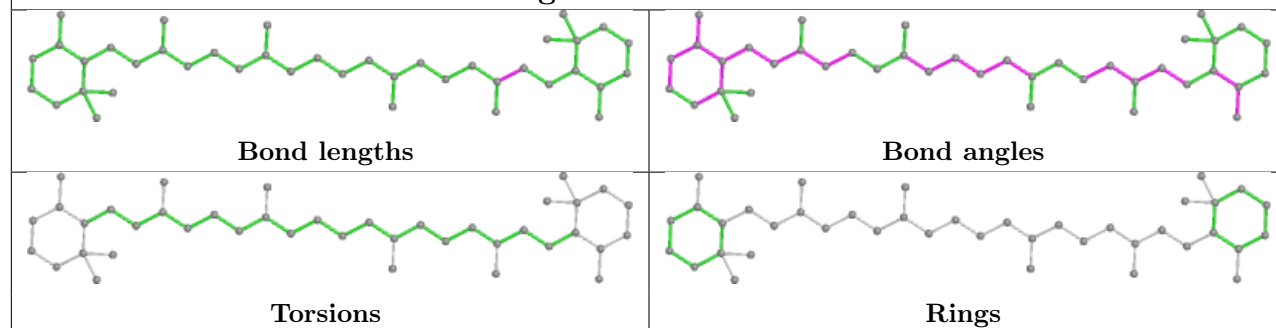
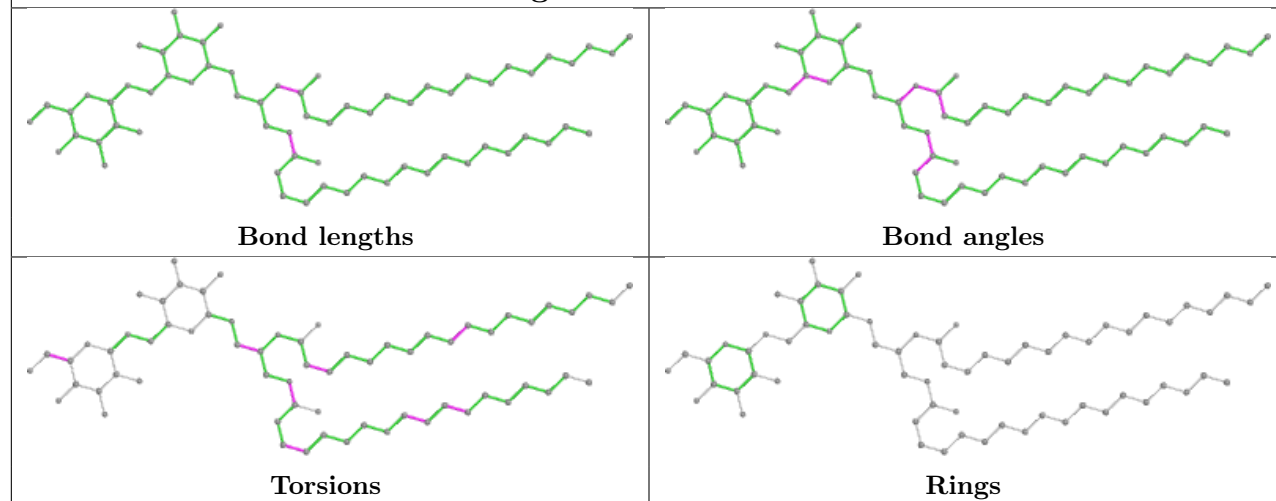
Ligand CLA 9 602**Bond lengths****Bond angles****Torsions****Rings****Ligand CLA a 814****Bond lengths****Bond angles****Torsions****Rings**

Ligand CLA A 824

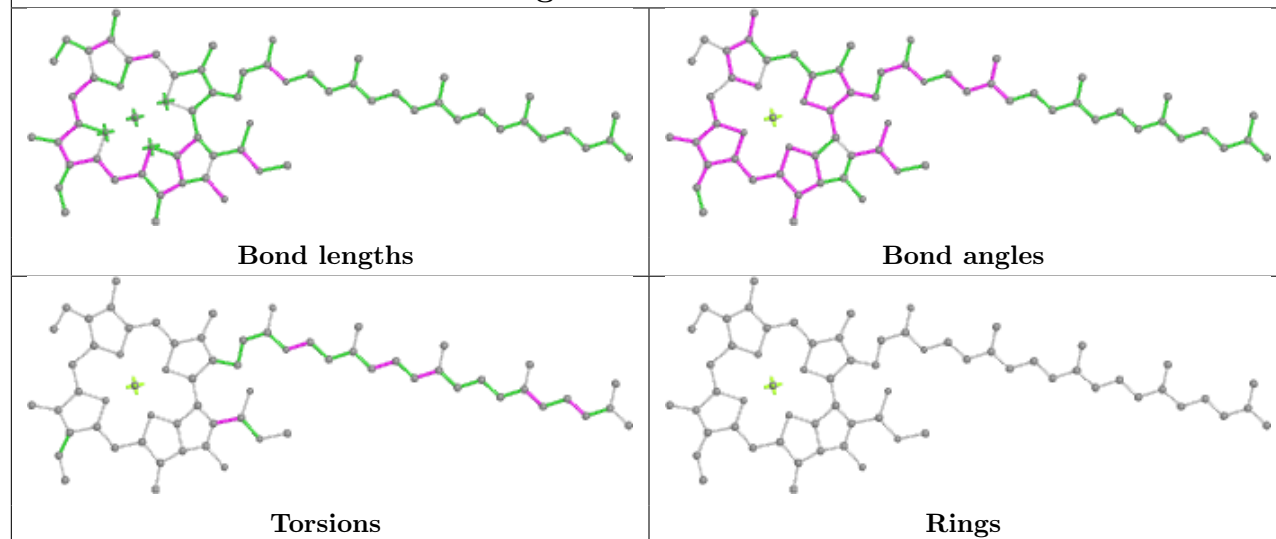


Ligand CLA f 7003

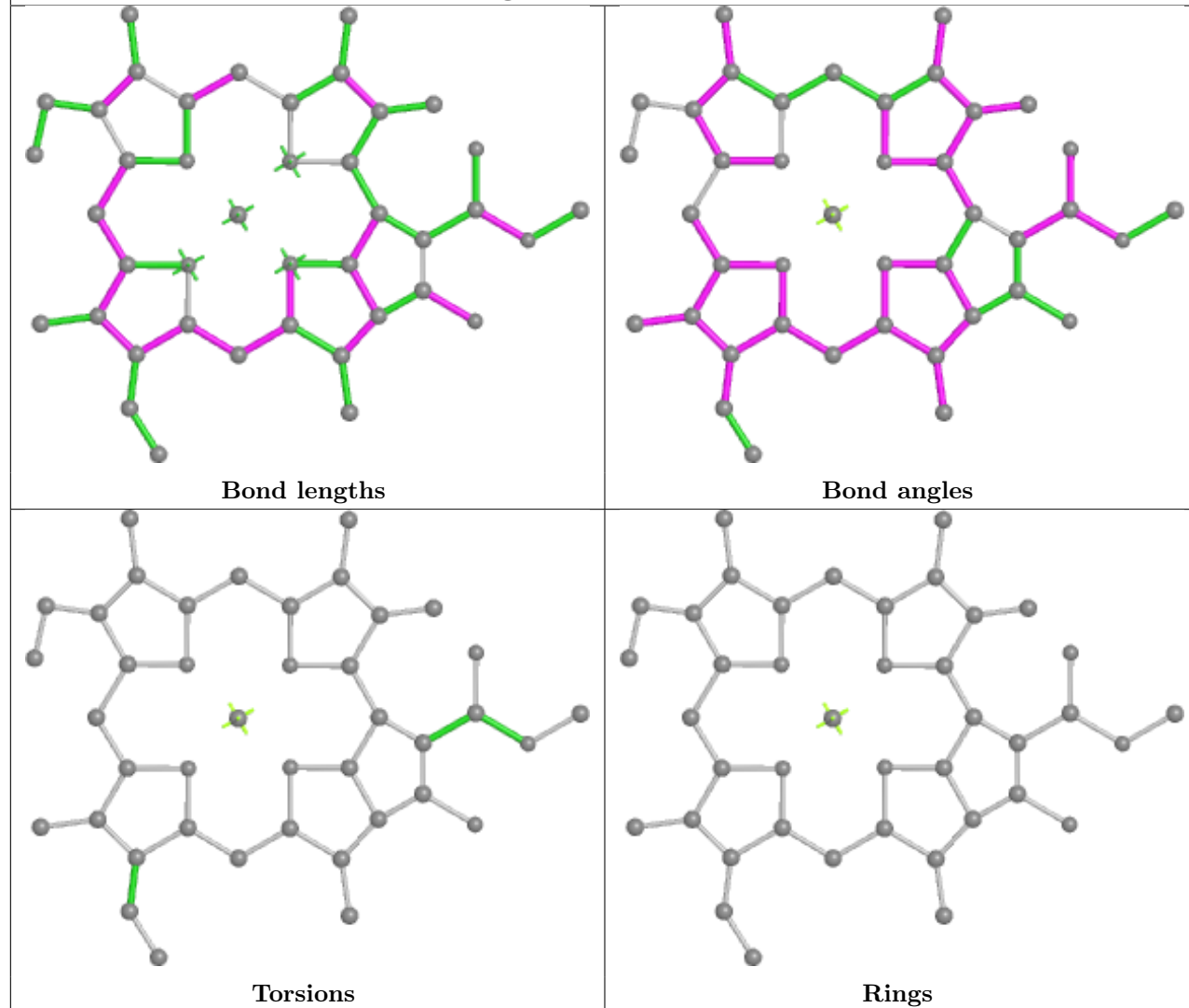


Ligand CLA B 833**Ligand BCR 1 206****Ligand DGD b 849**

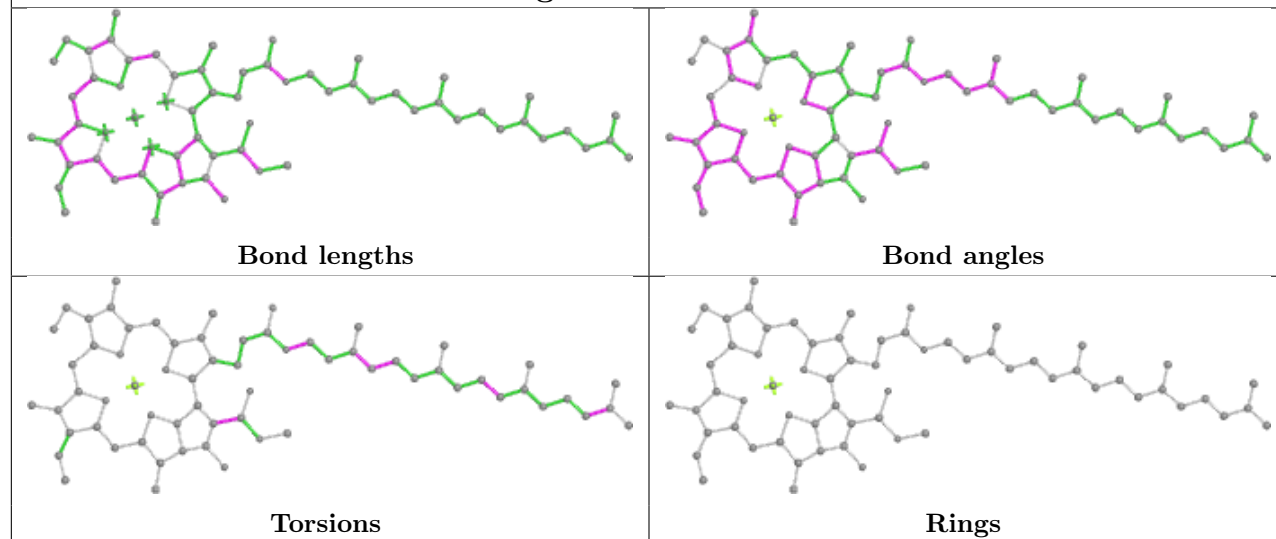
Ligand CLA a 827



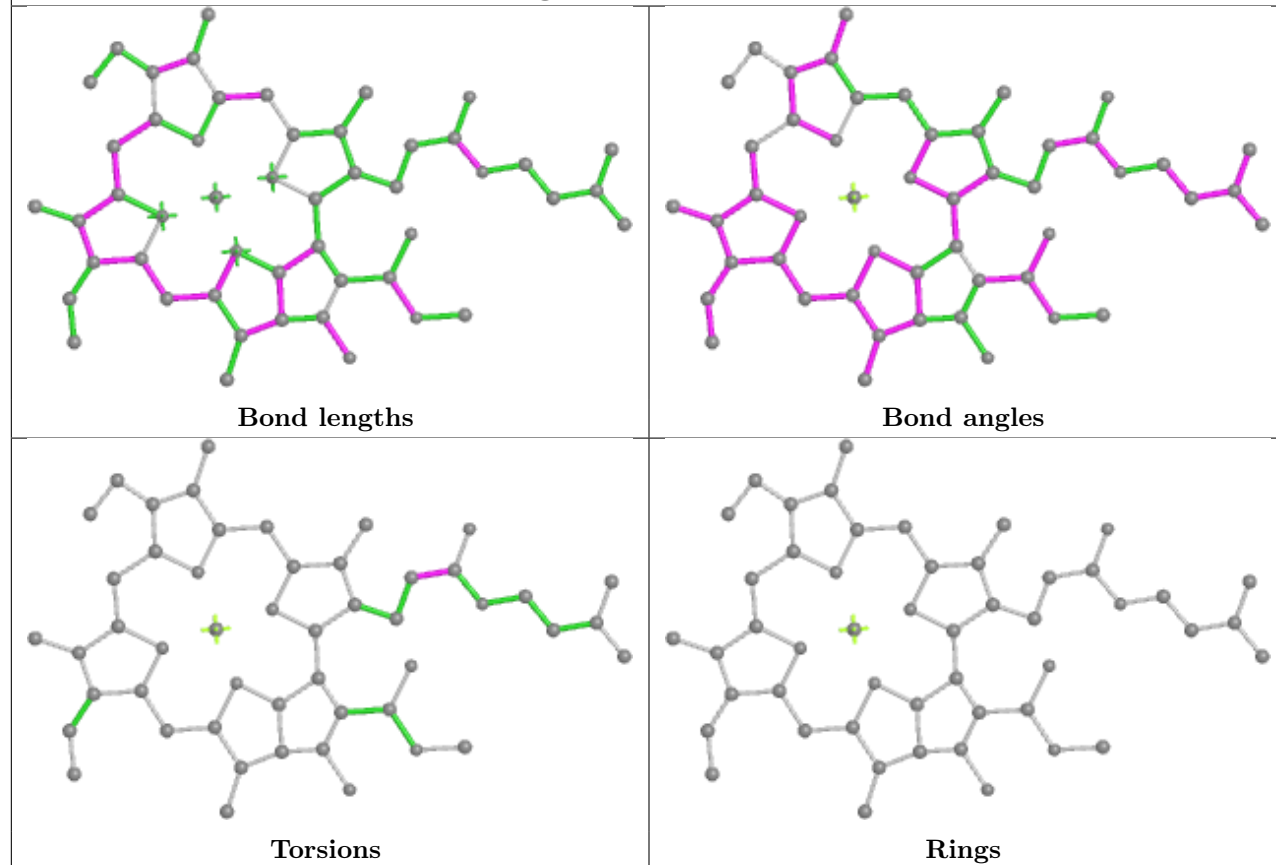
Ligand CLA 1 311



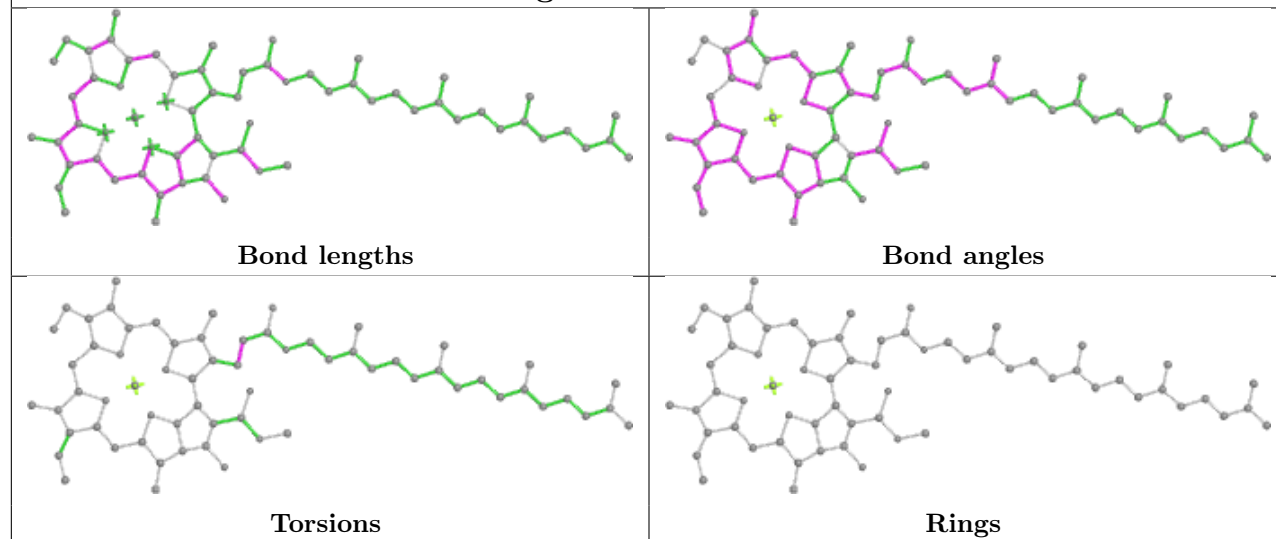
Ligand CLA a 840



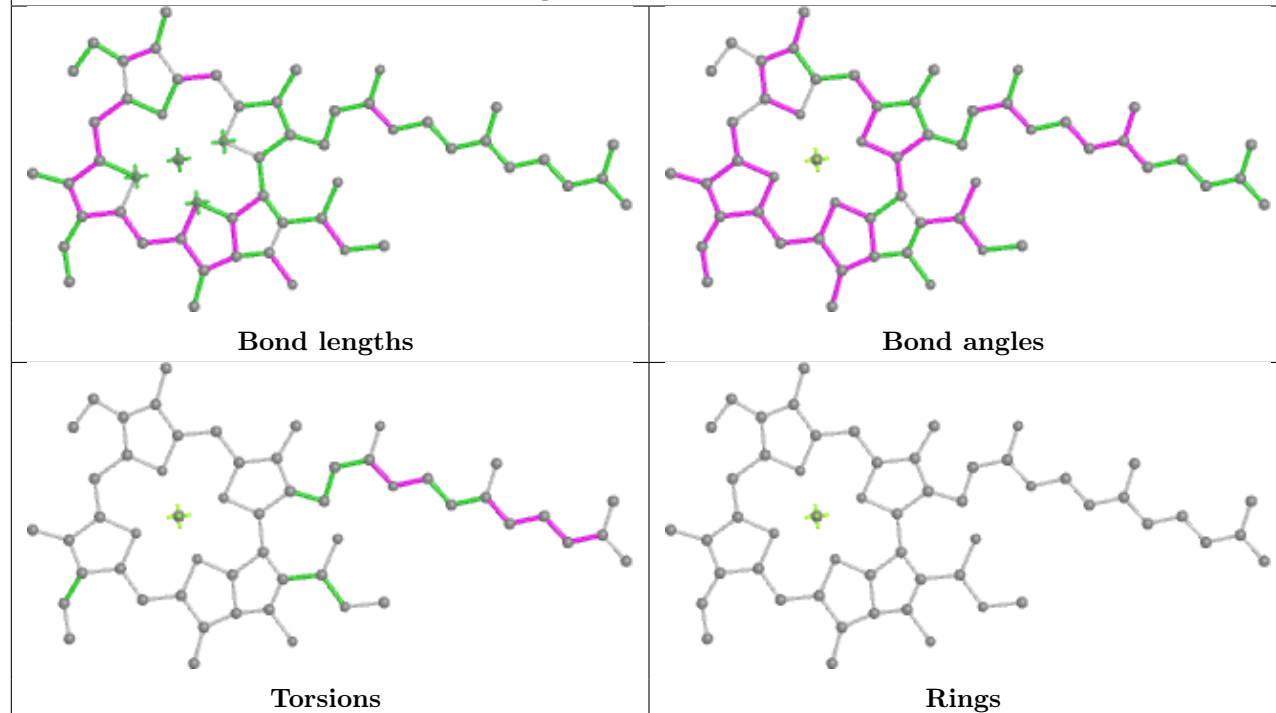
Ligand CLA 8 302



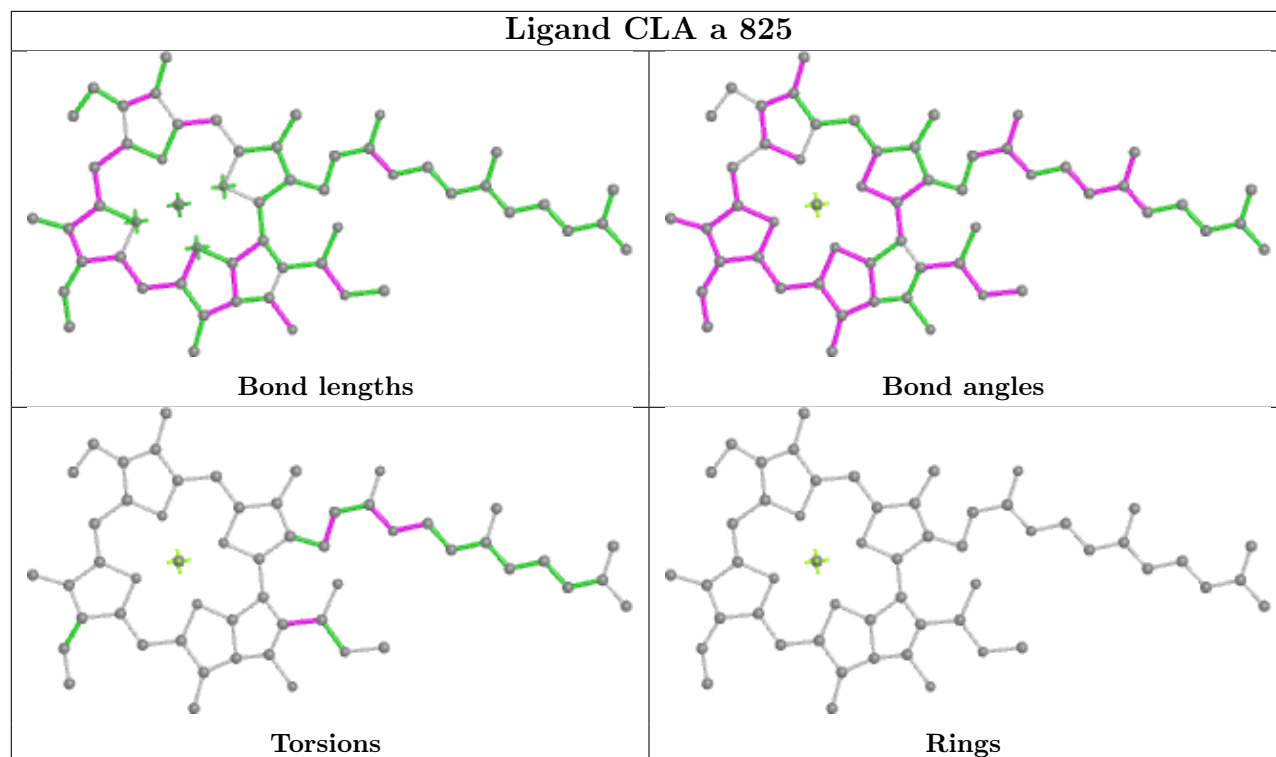
Ligand CLA a 803



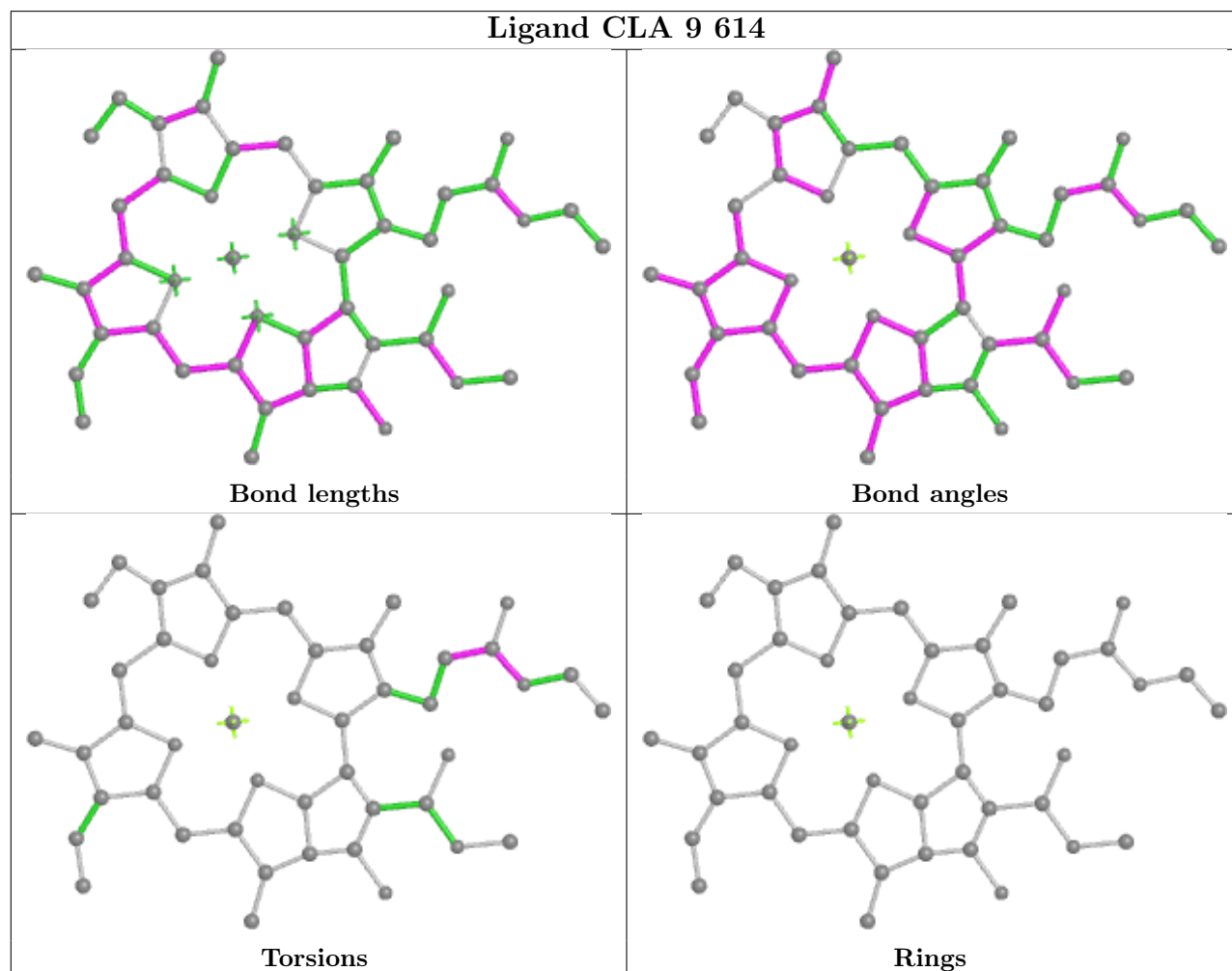
Ligand CLA a 805



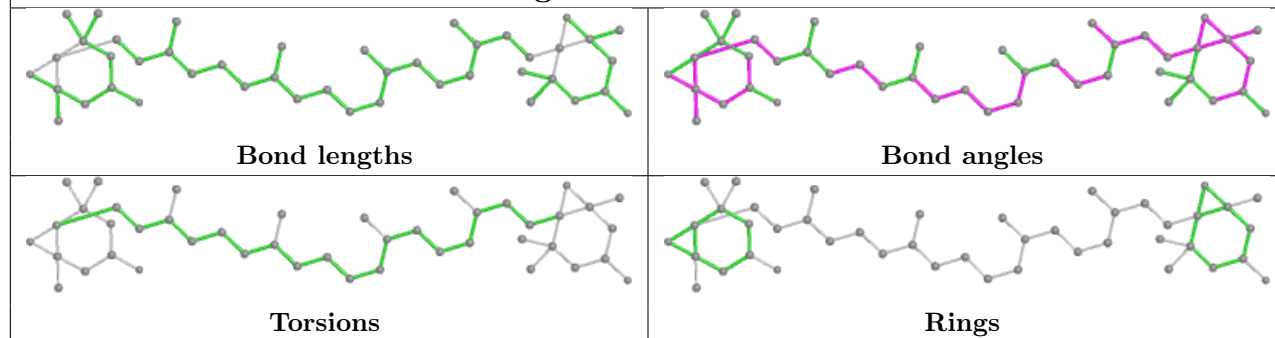
Ligand CLA a 825



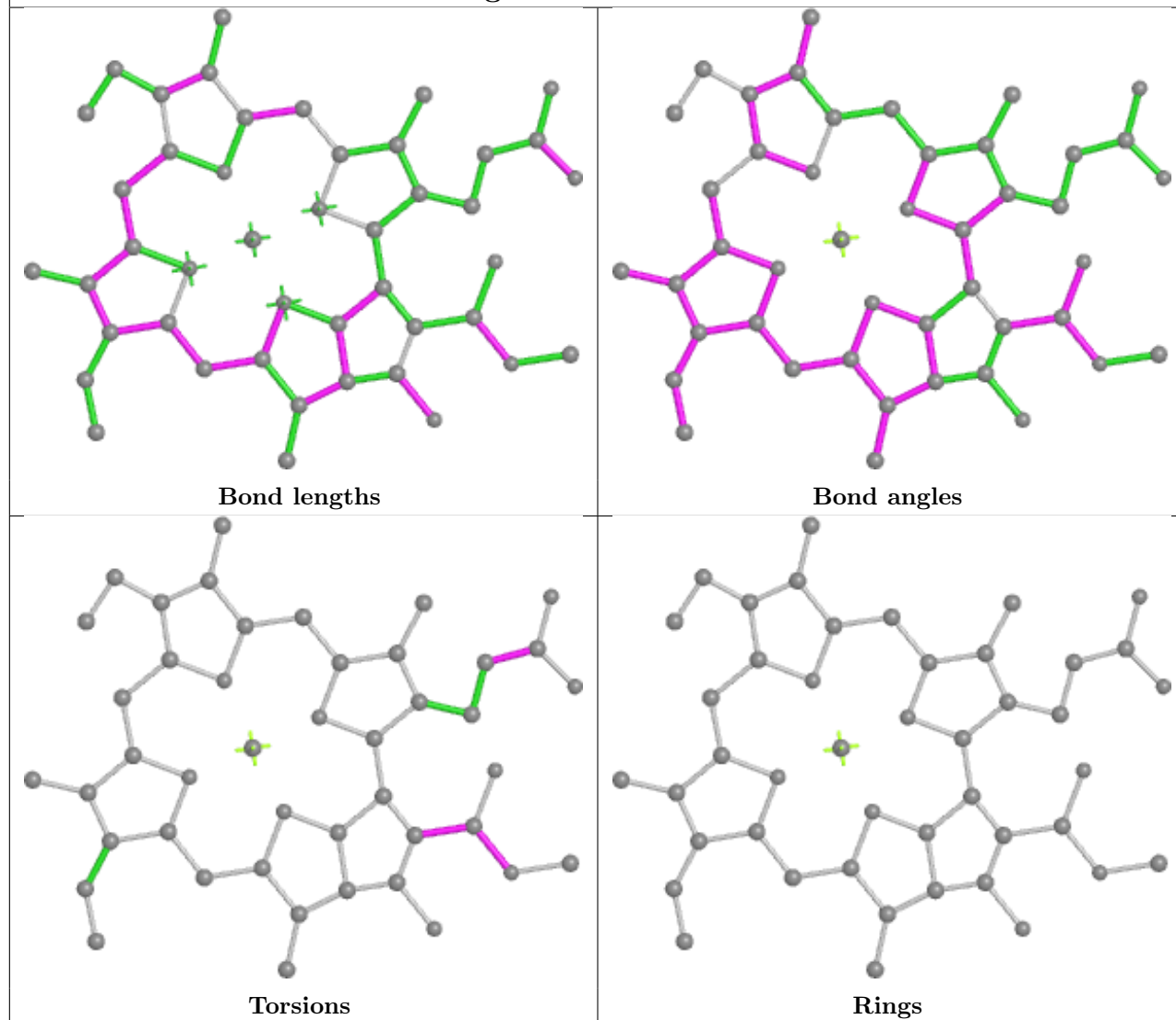
Ligand CLA 9 614



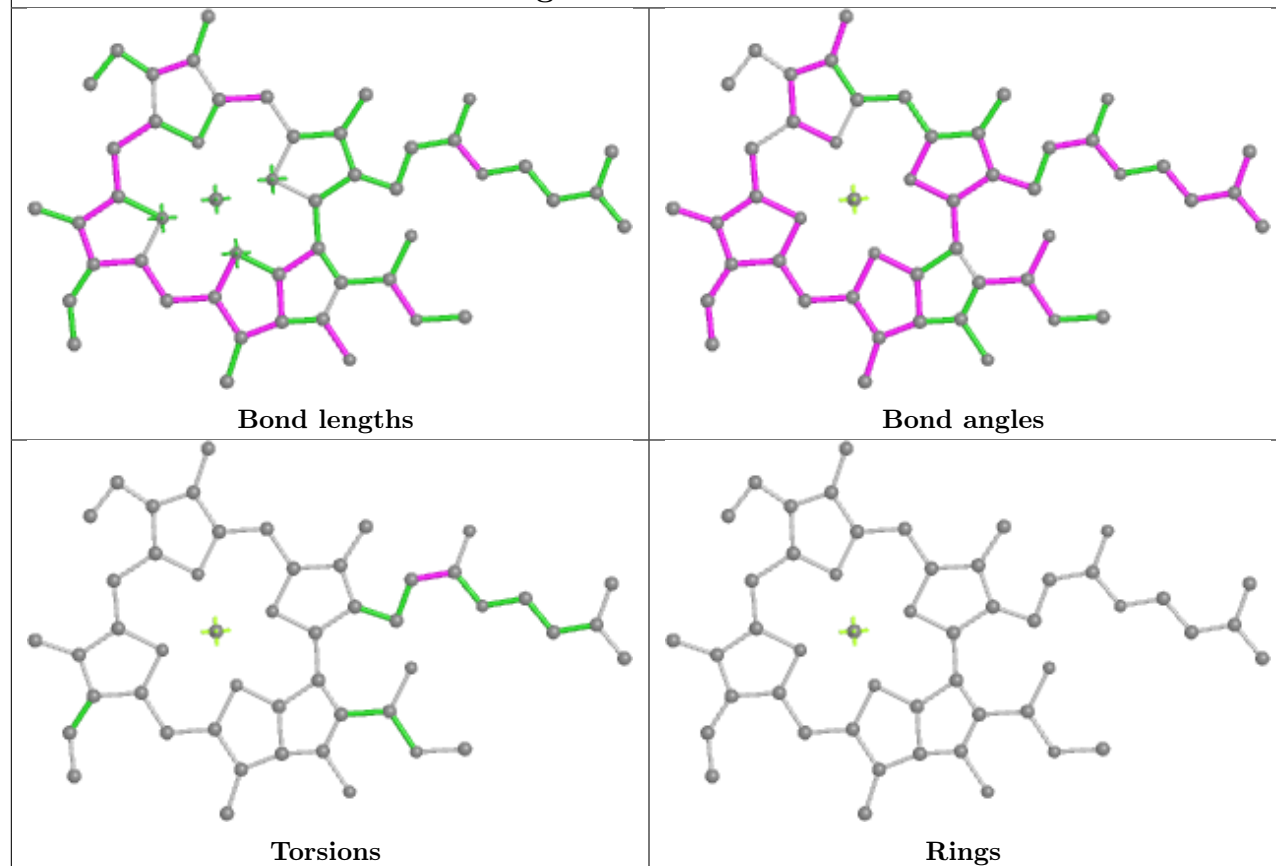
Ligand XAT 2 616



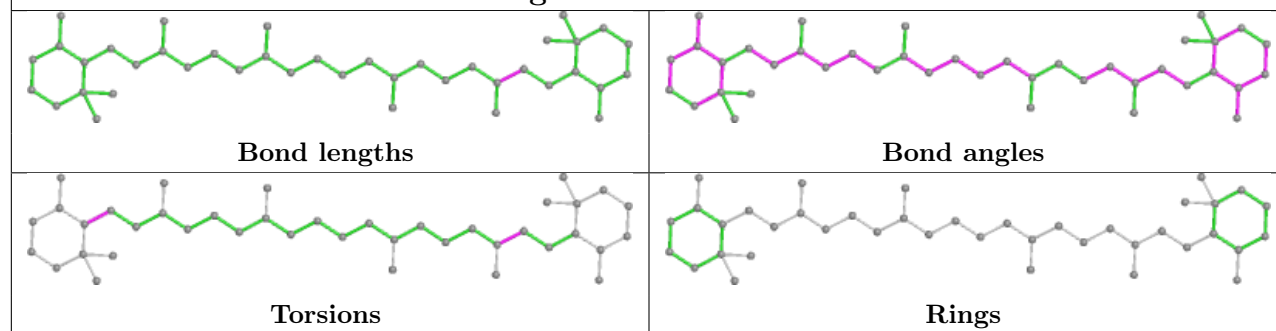
Ligand CLA k 1401



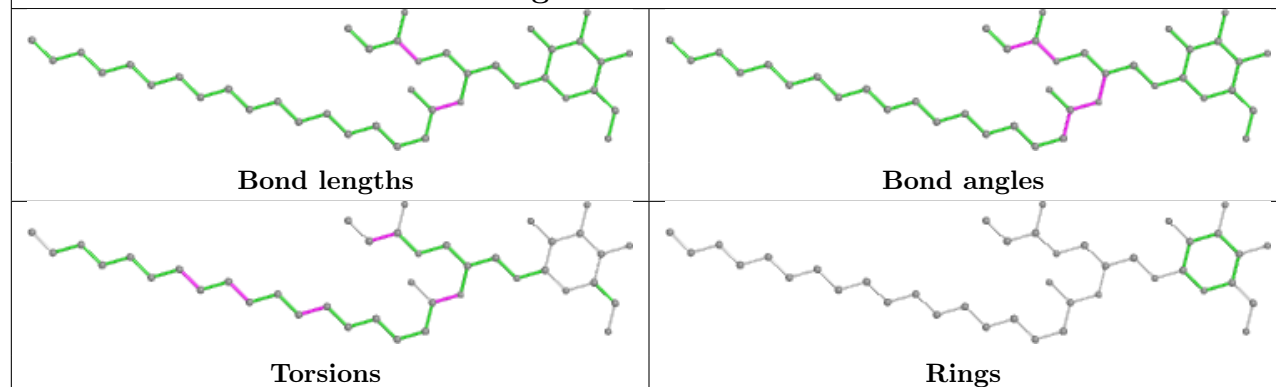
Ligand CLA 4 614



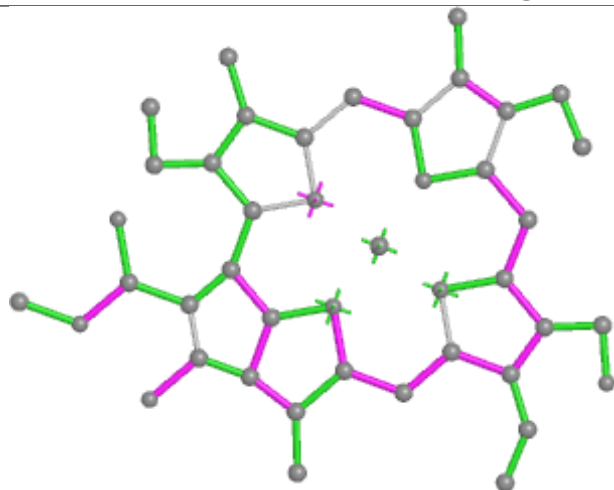
Ligand BCR G 105



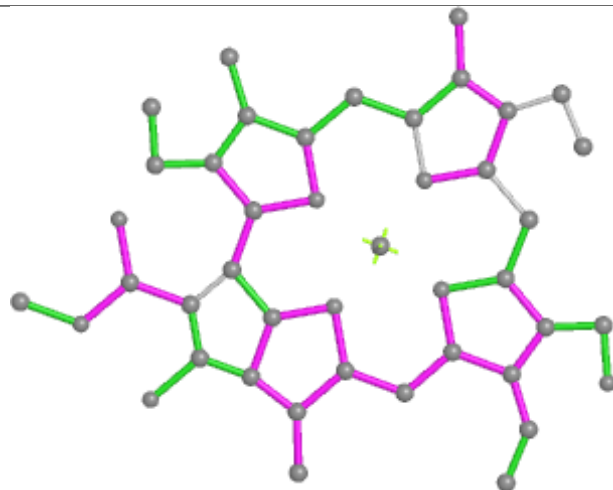
Ligand LMG 6 302



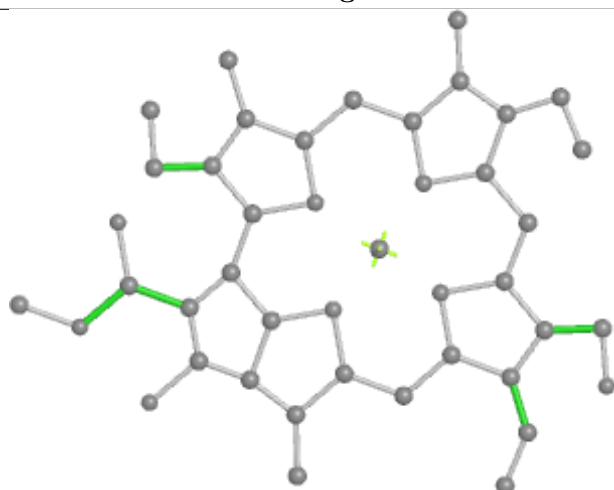
Ligand CHL 4 615



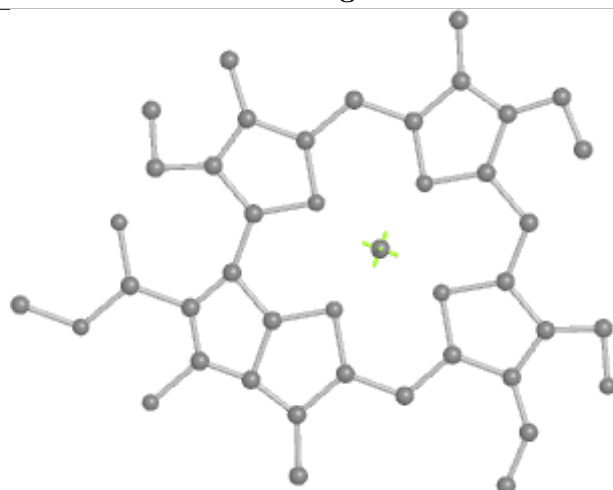
Bond lengths



Bond angles

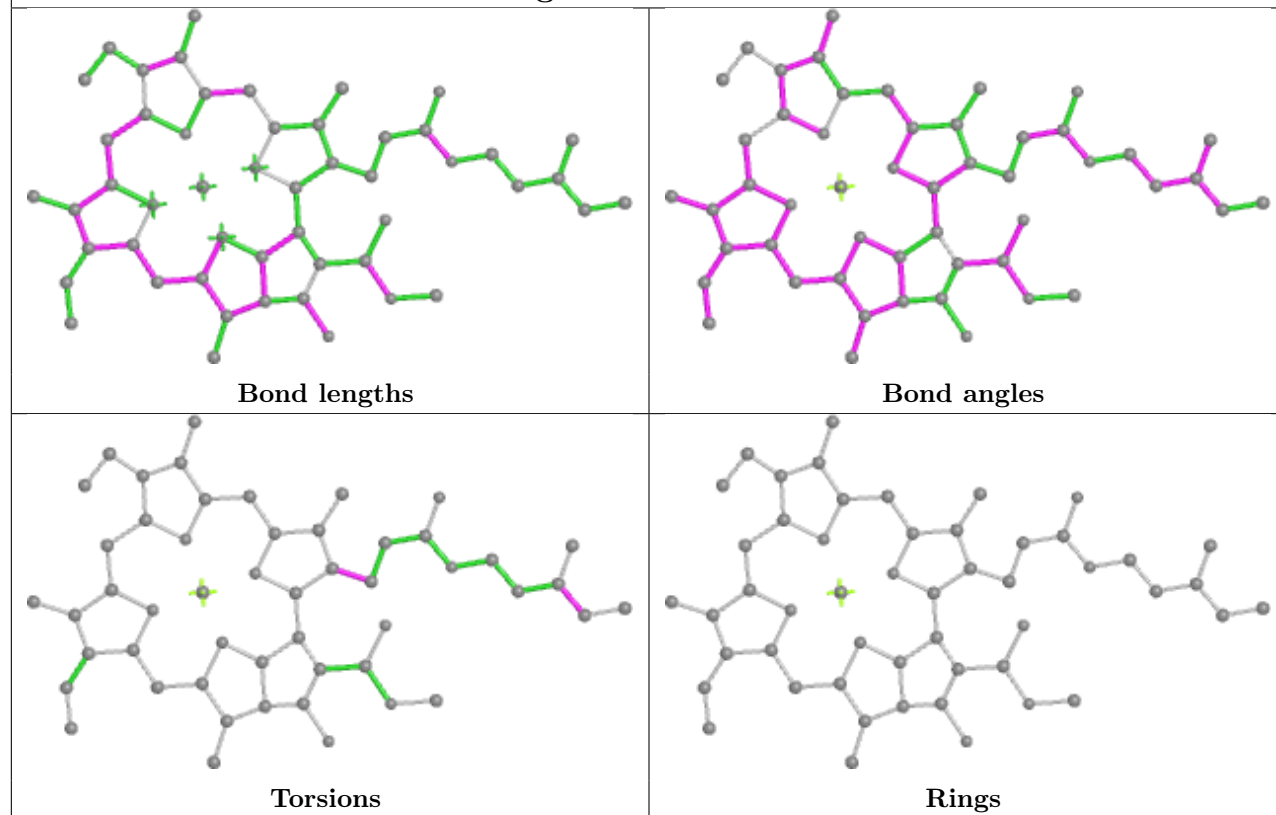


Torsions

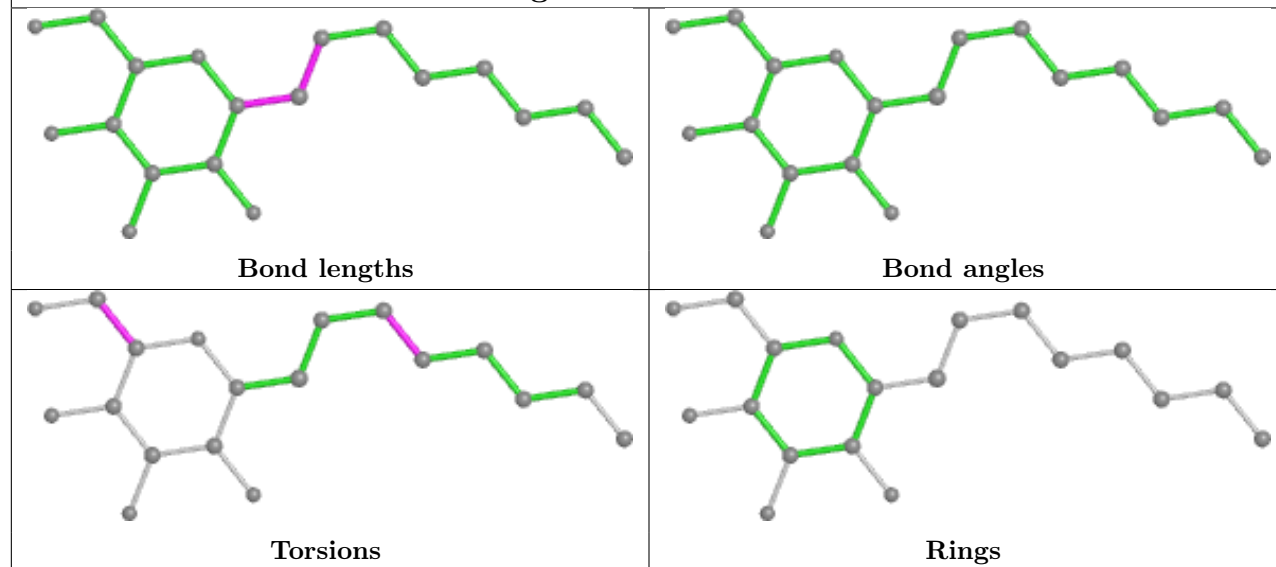


Rings

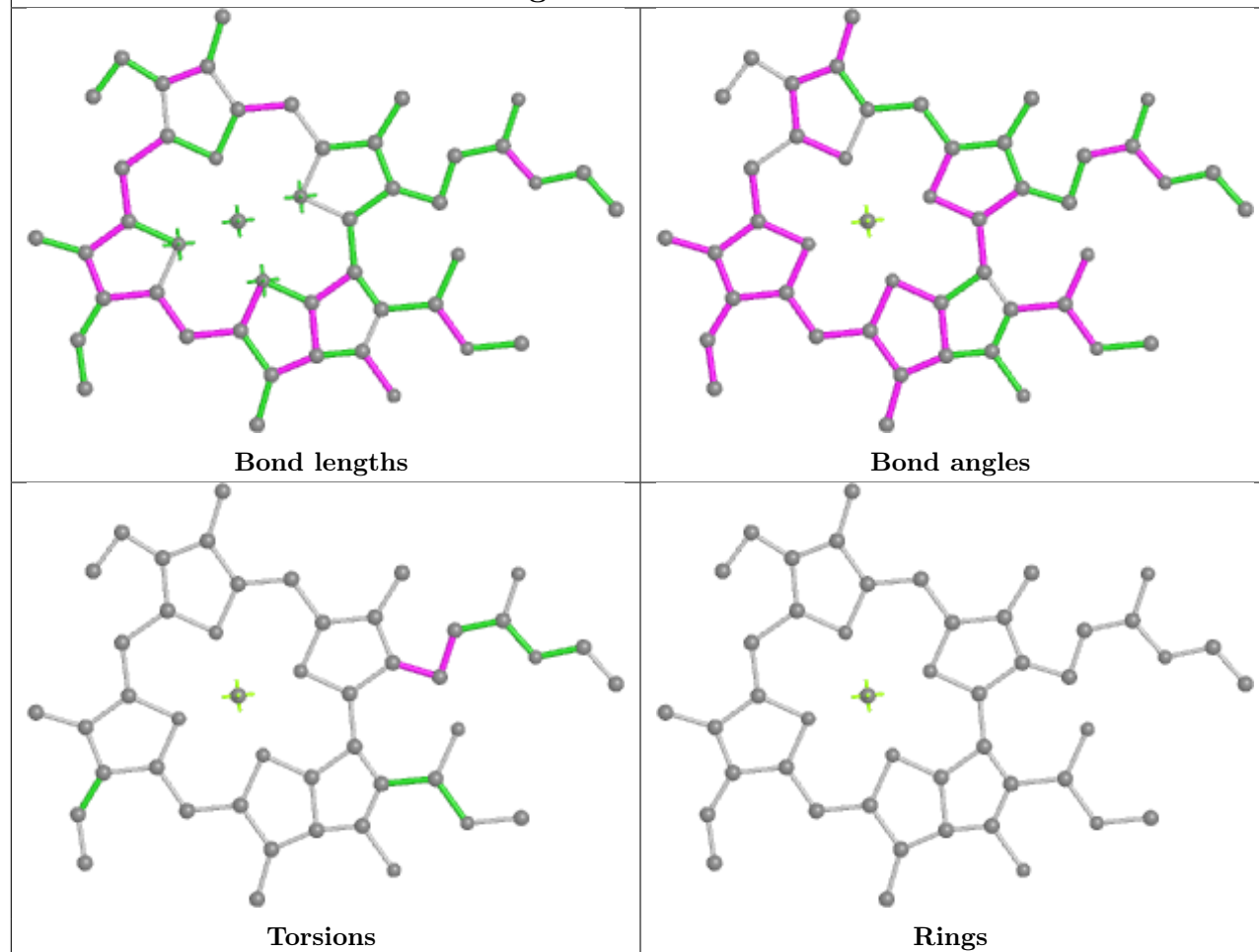
Ligand CLA 6 306



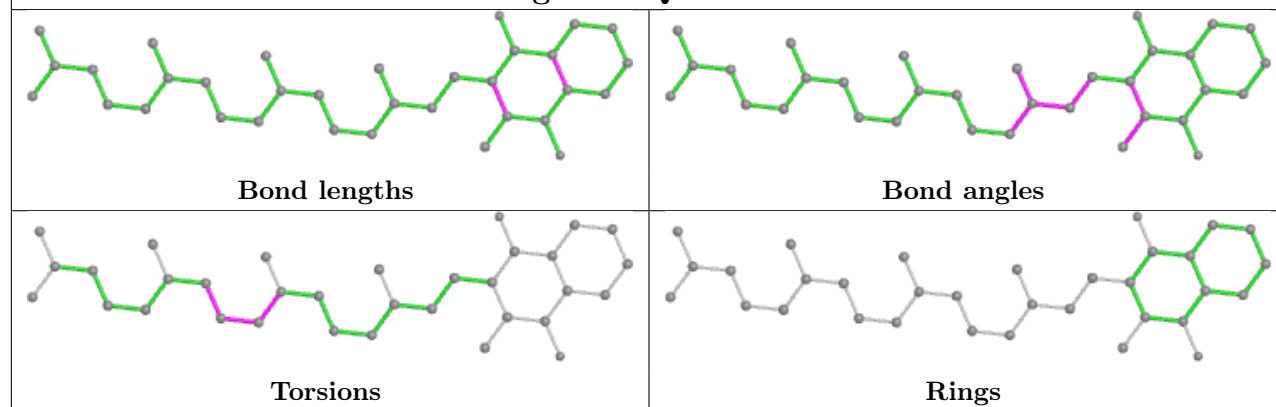
Ligand HTG F 302

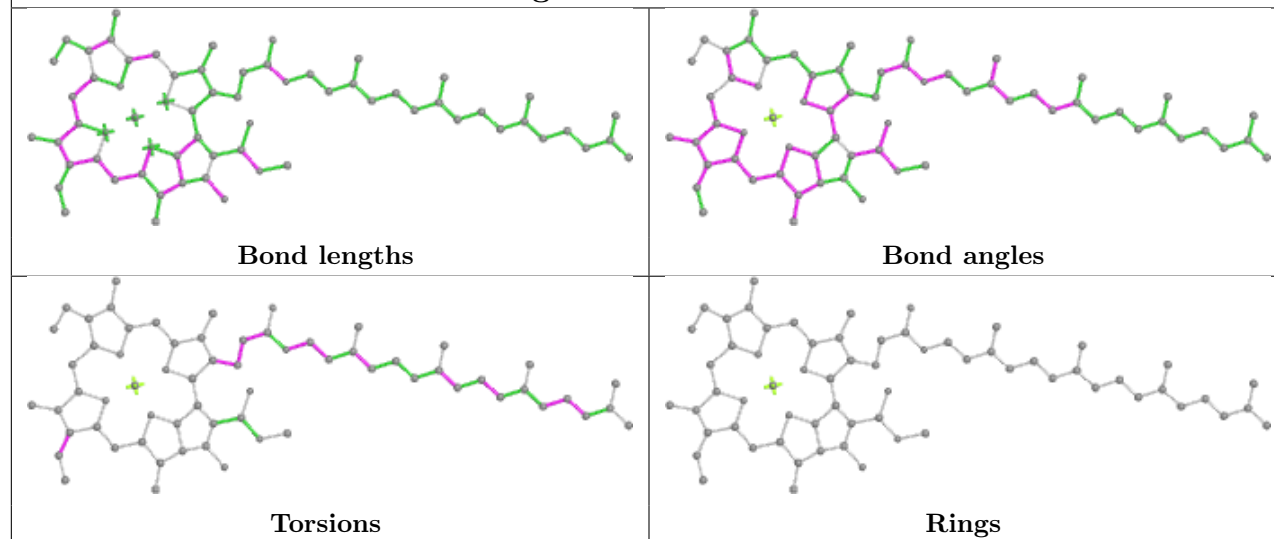
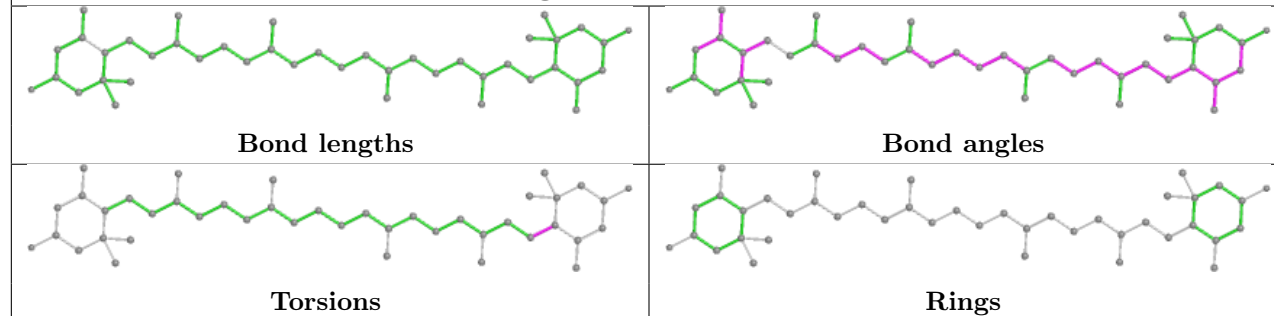
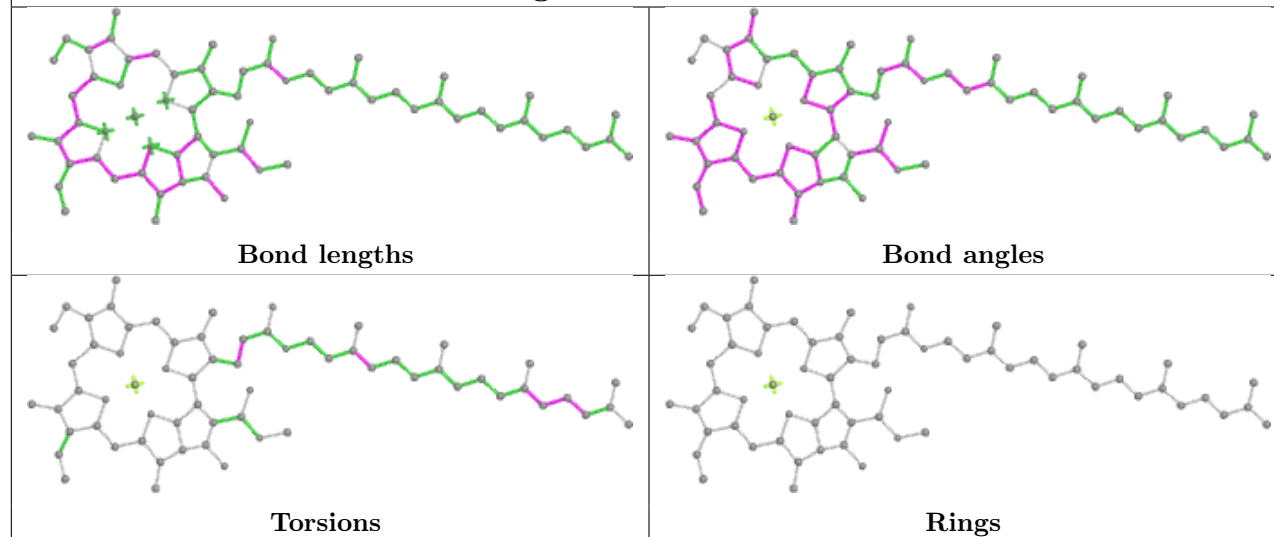


Ligand CLA 3 306

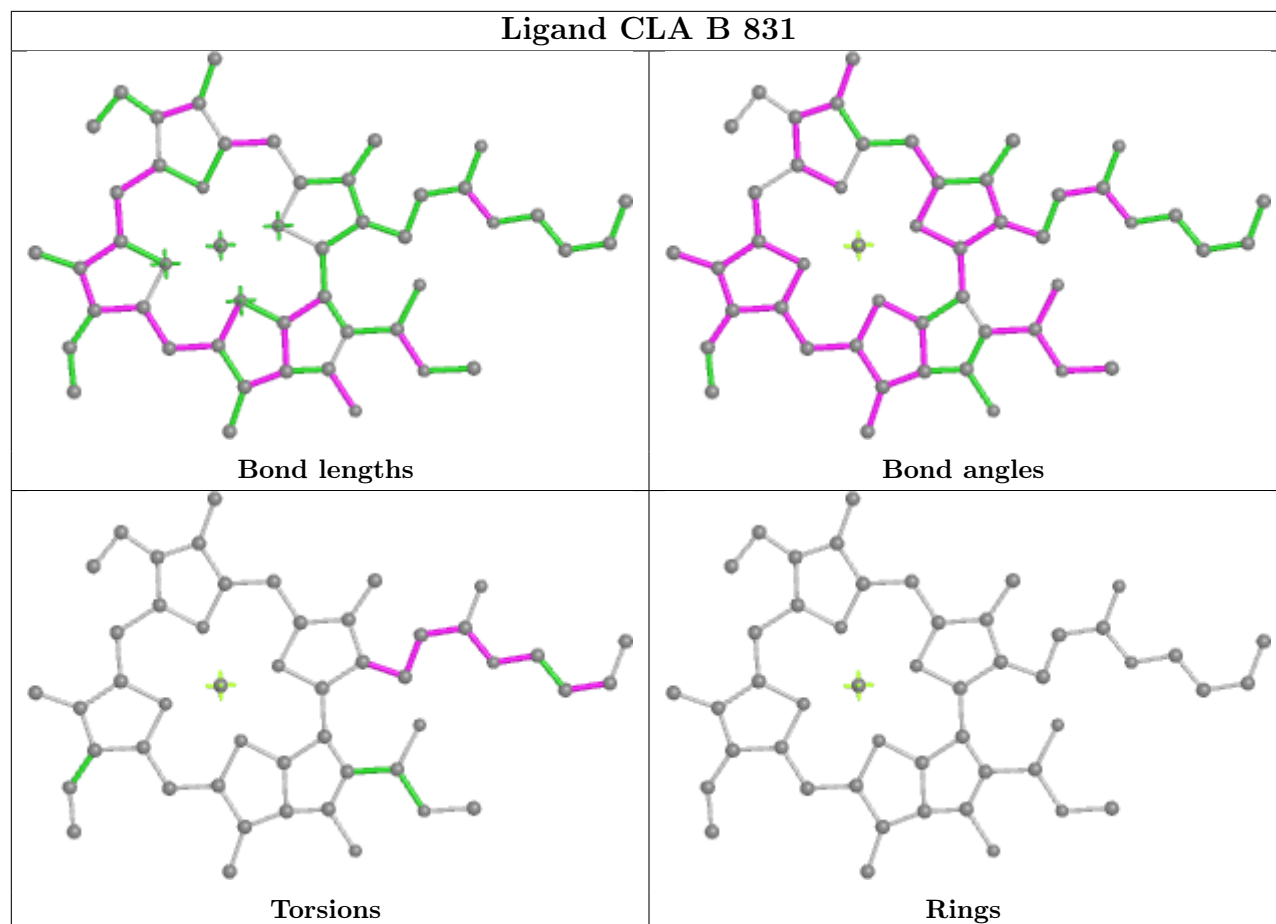


Ligand PQN b 842

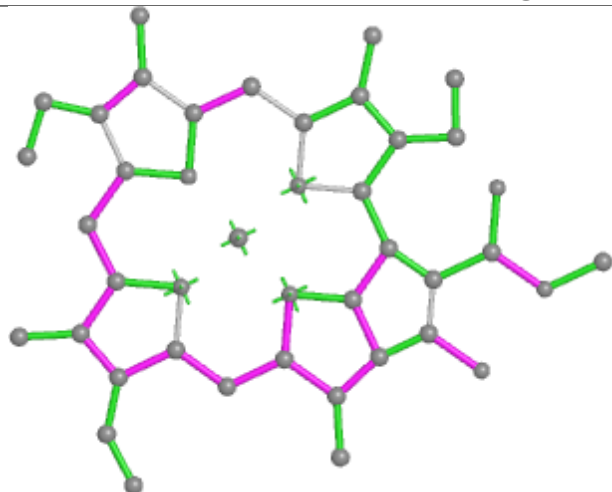


Ligand CLA B 832**Ligand LUT 3 316****Ligand CLA B 839**

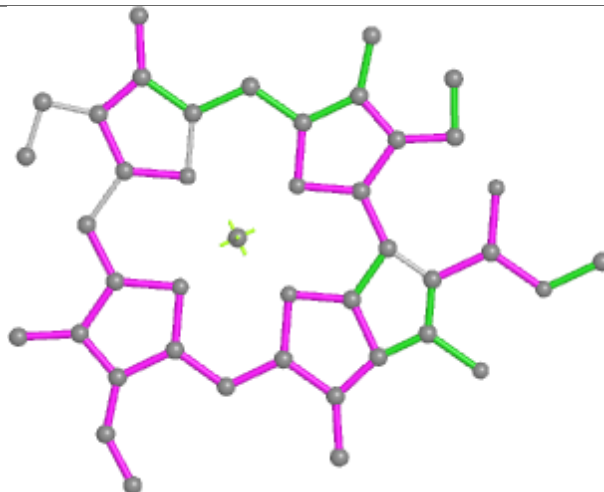
Ligand CLA B 831



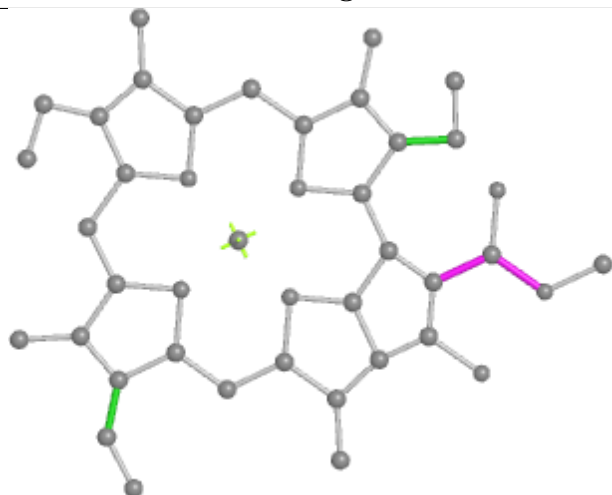
Ligand CLA 6 307



Bond lengths



Bond angles

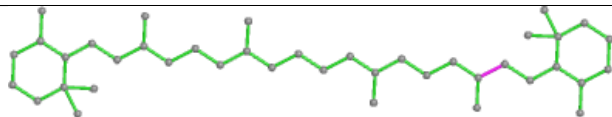


Torsions

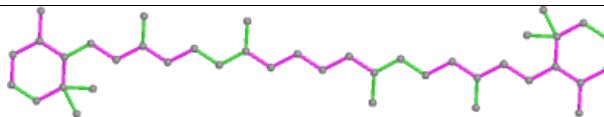


Rings

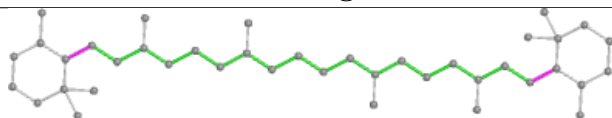
Ligand BCR A 850



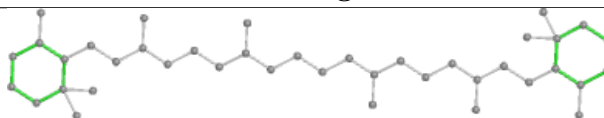
Bond lengths



Bond angles

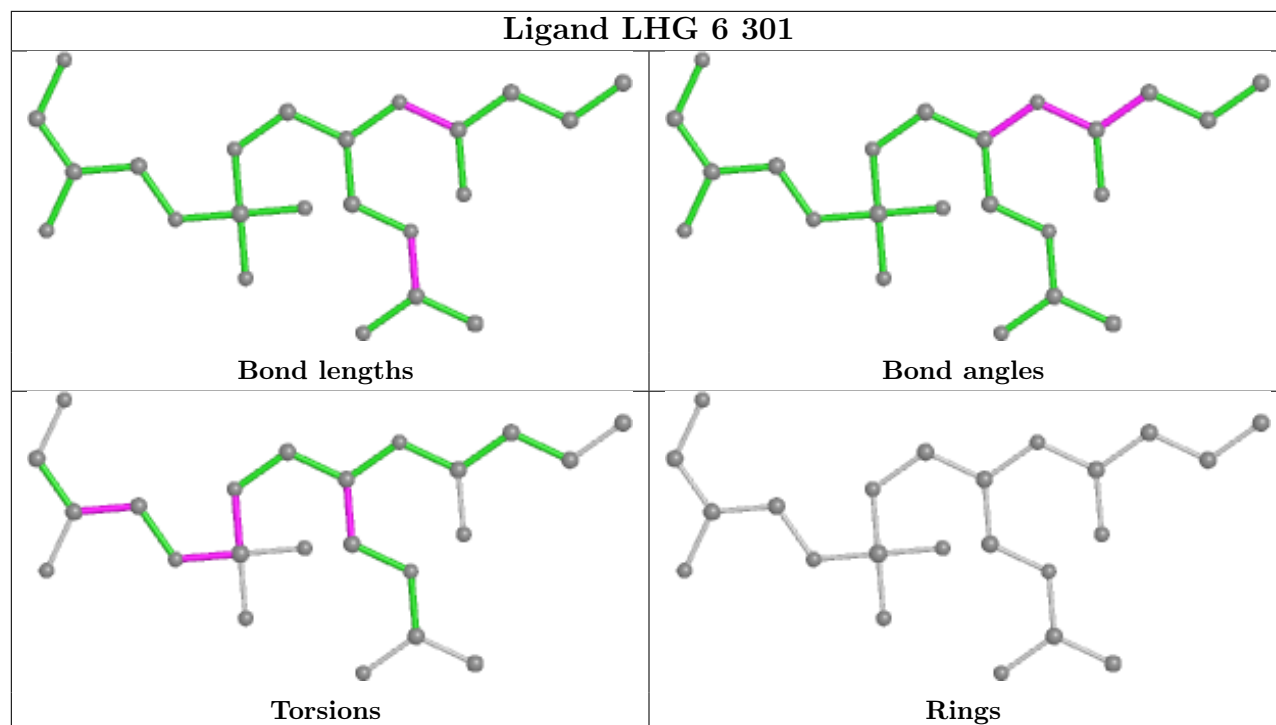


Torsions

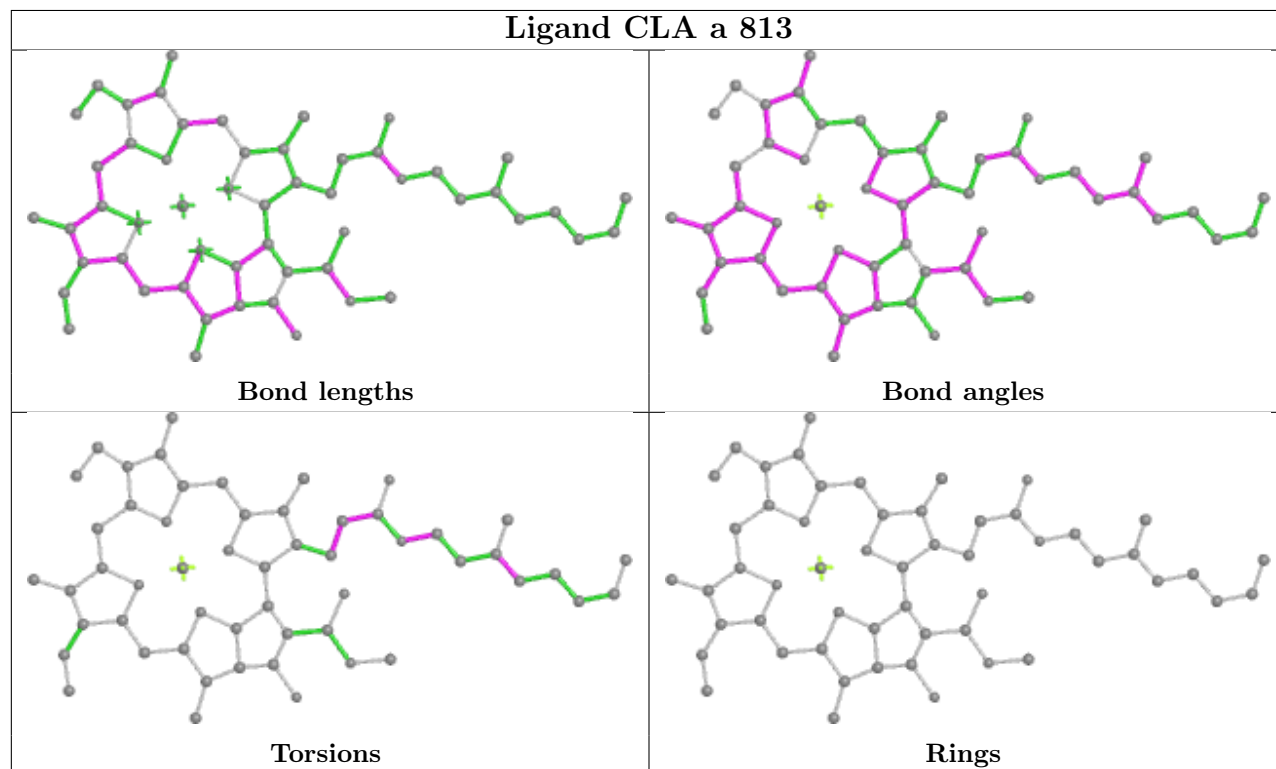


Rings

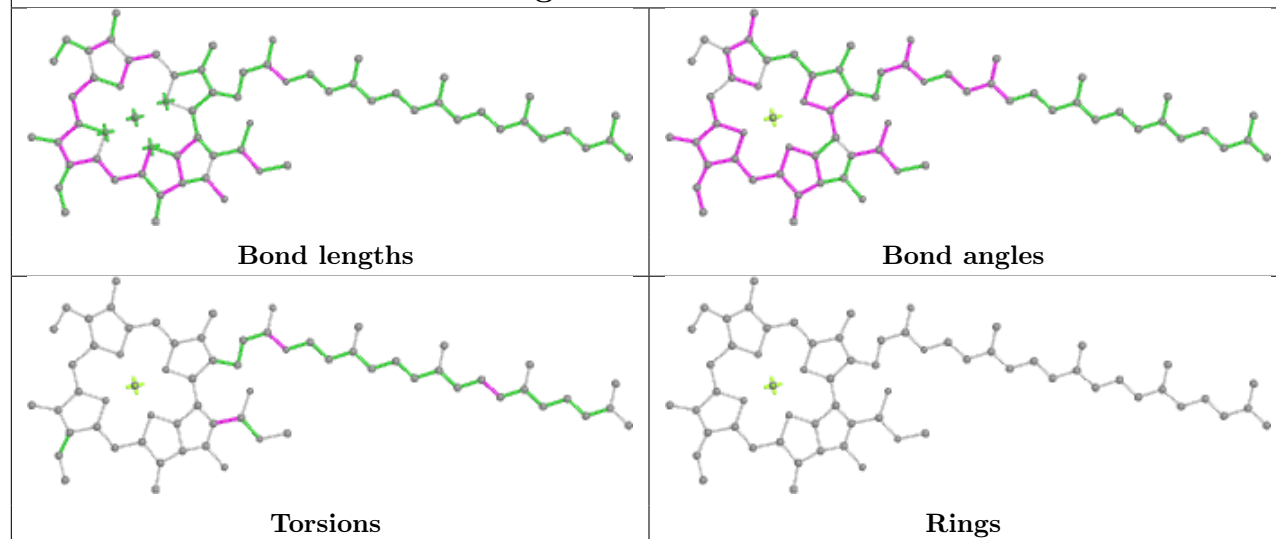
Ligand LHG 6 301



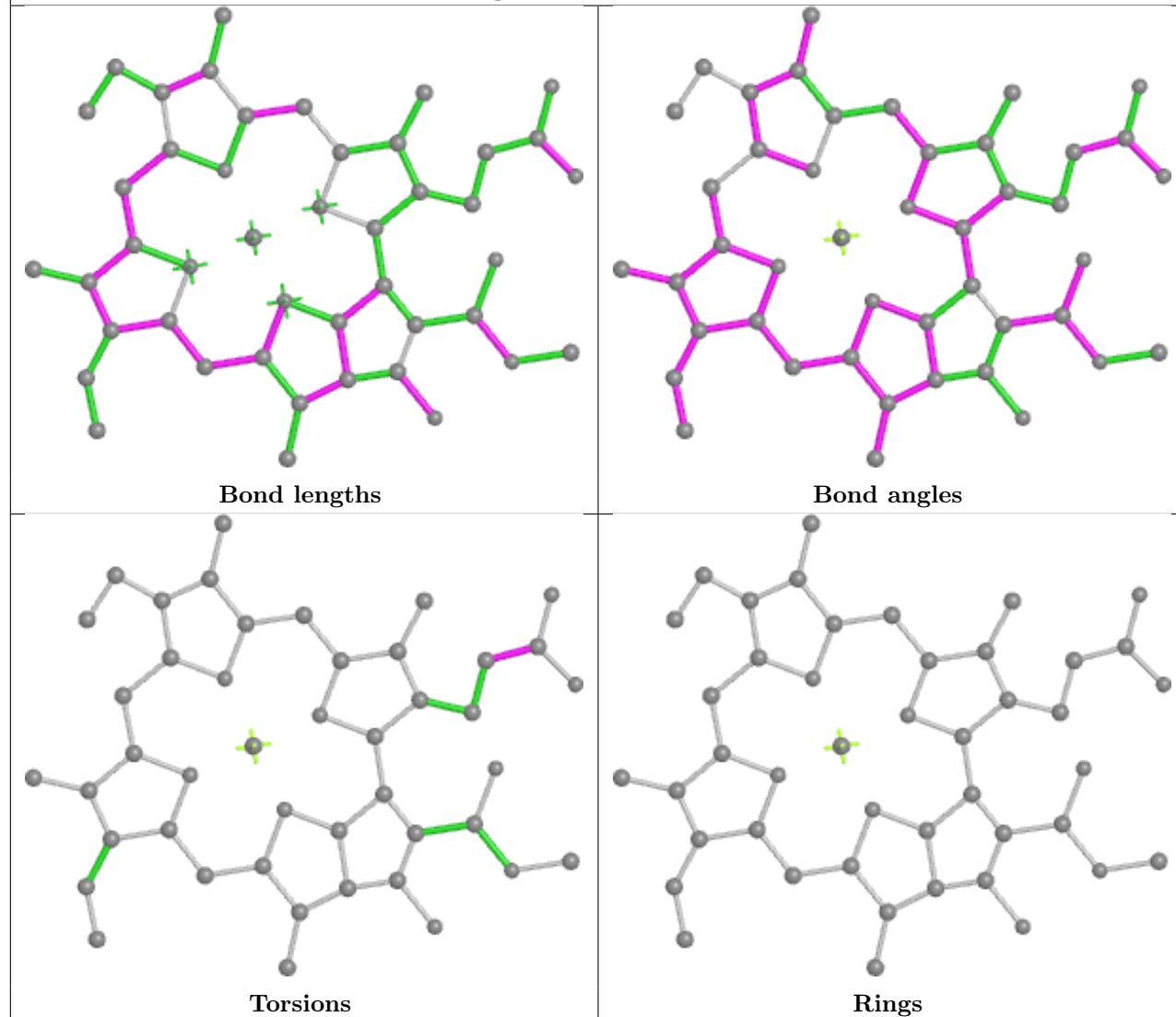
Ligand CLA a 813

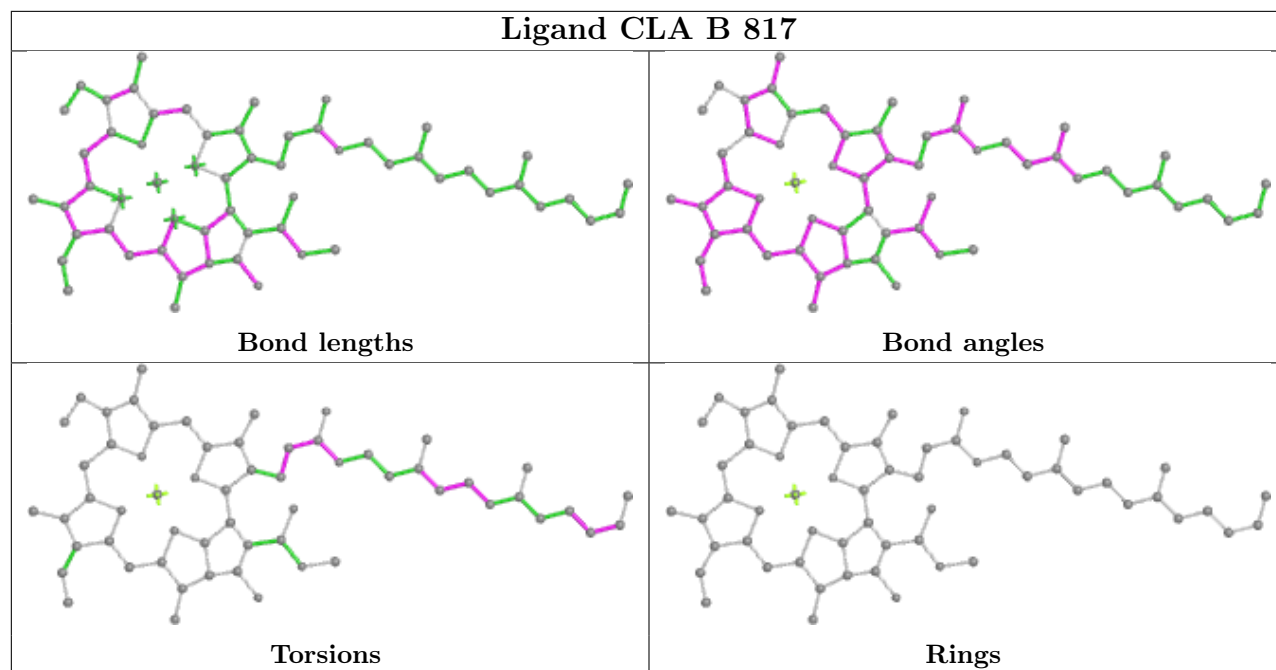


Ligand CLA b 829

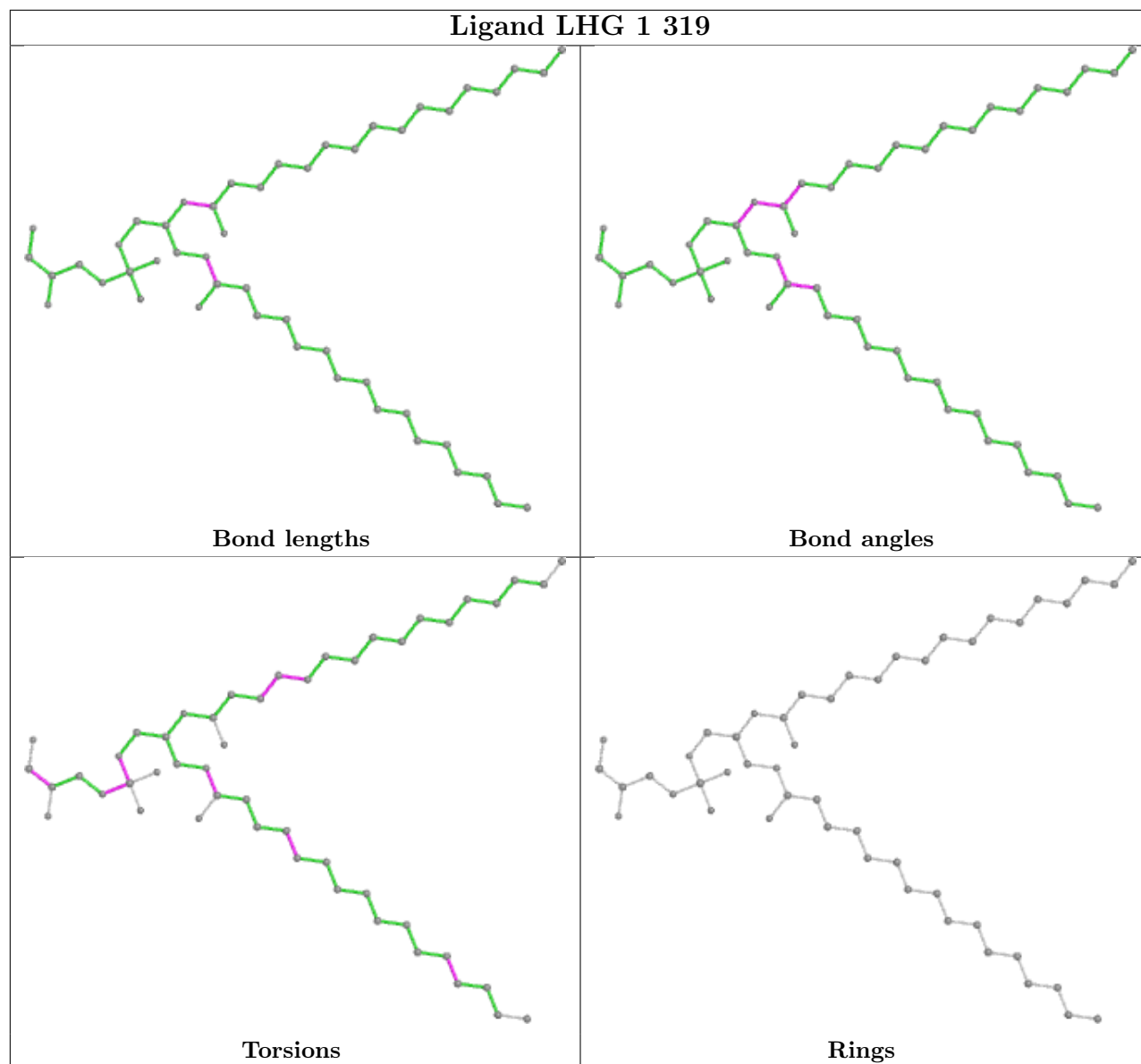


Ligand CLA A 821

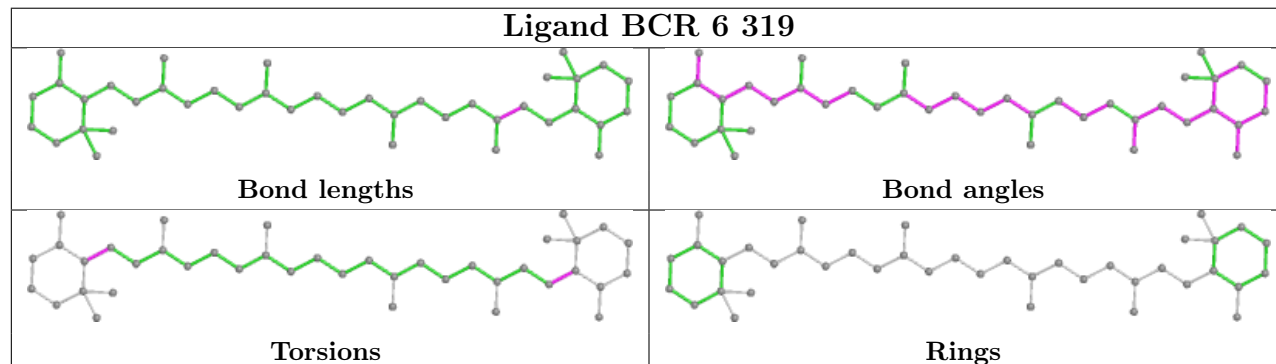




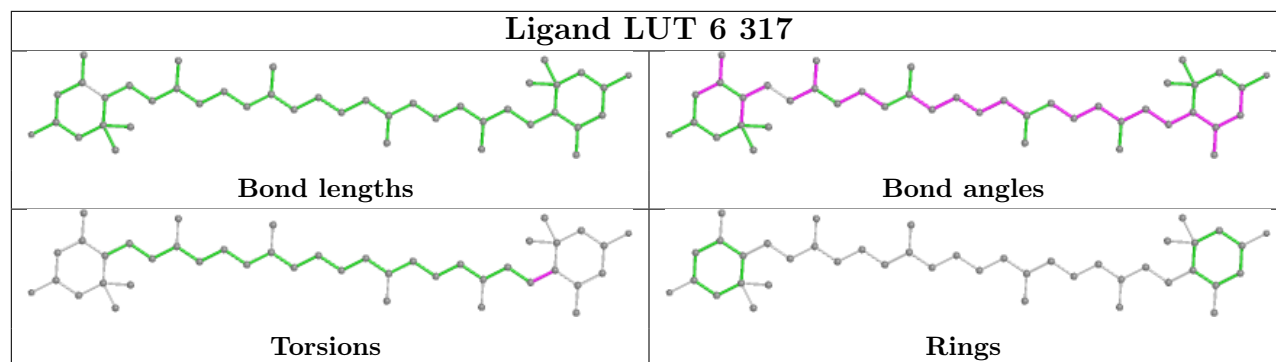
Ligand LHG 1 319



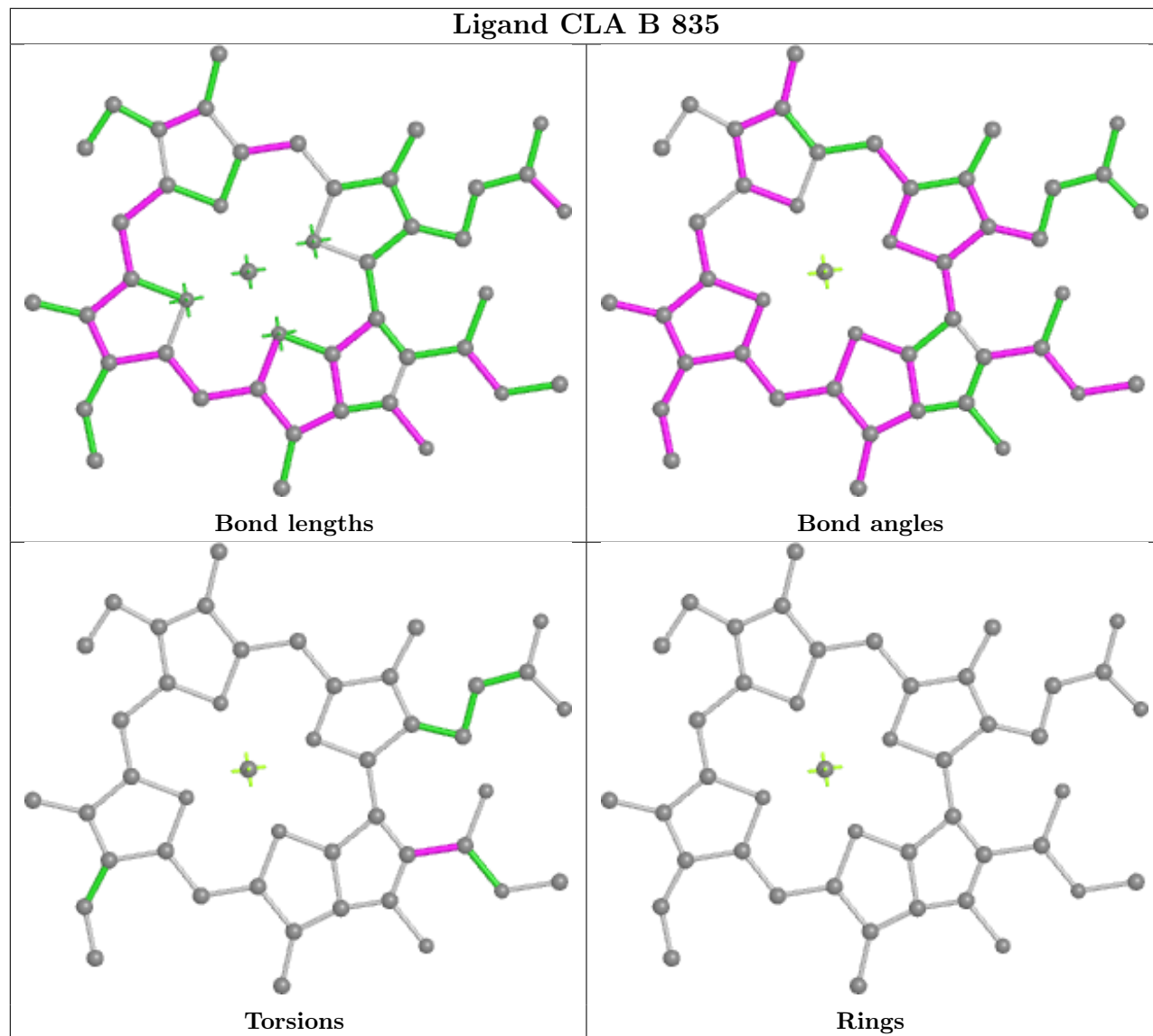
Ligand BCR 6 319



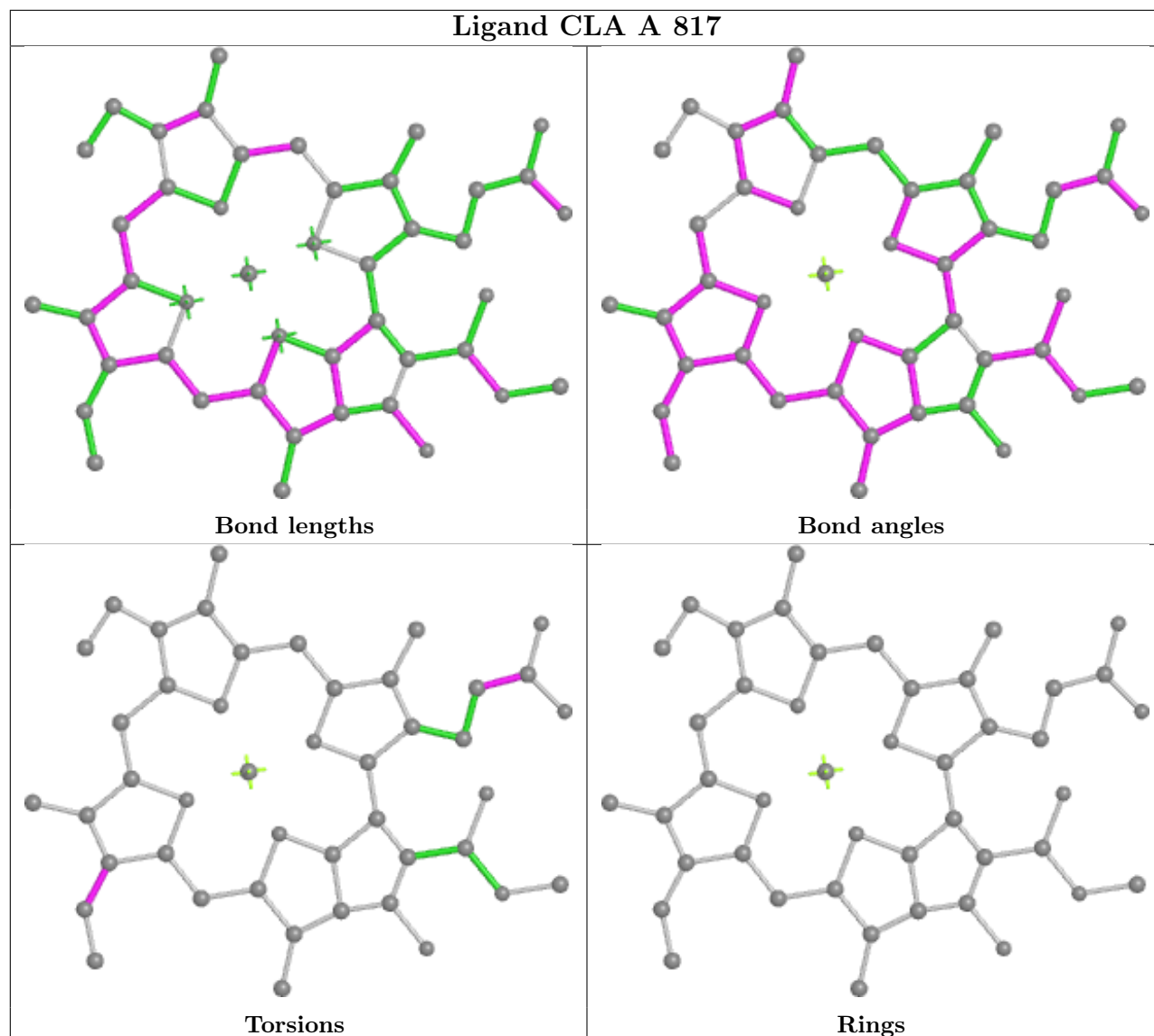
Ligand LUT 6 317



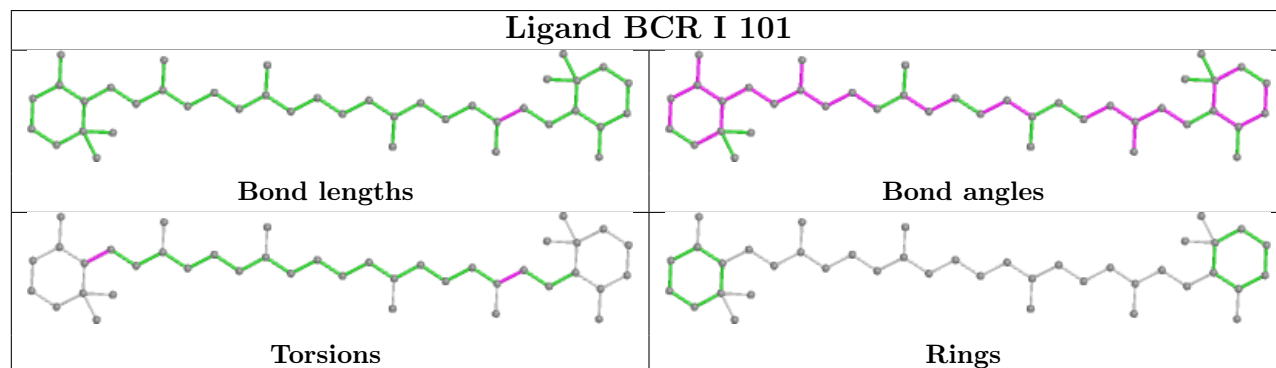
Ligand CLA B 835



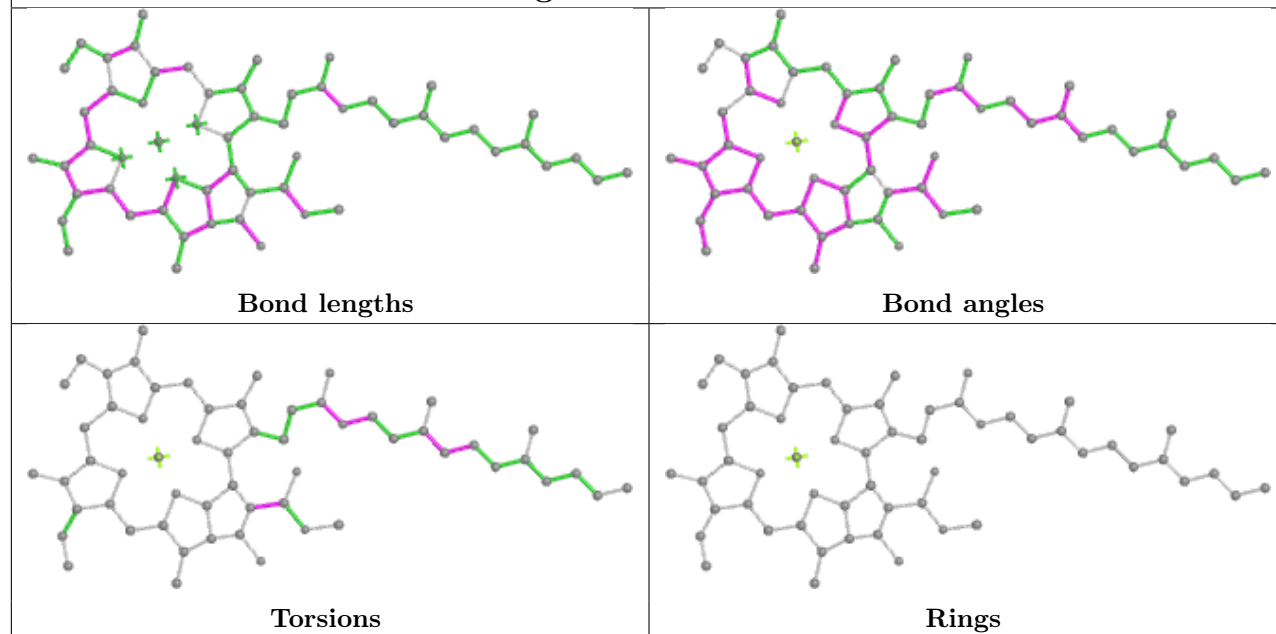
Ligand CLA A 817



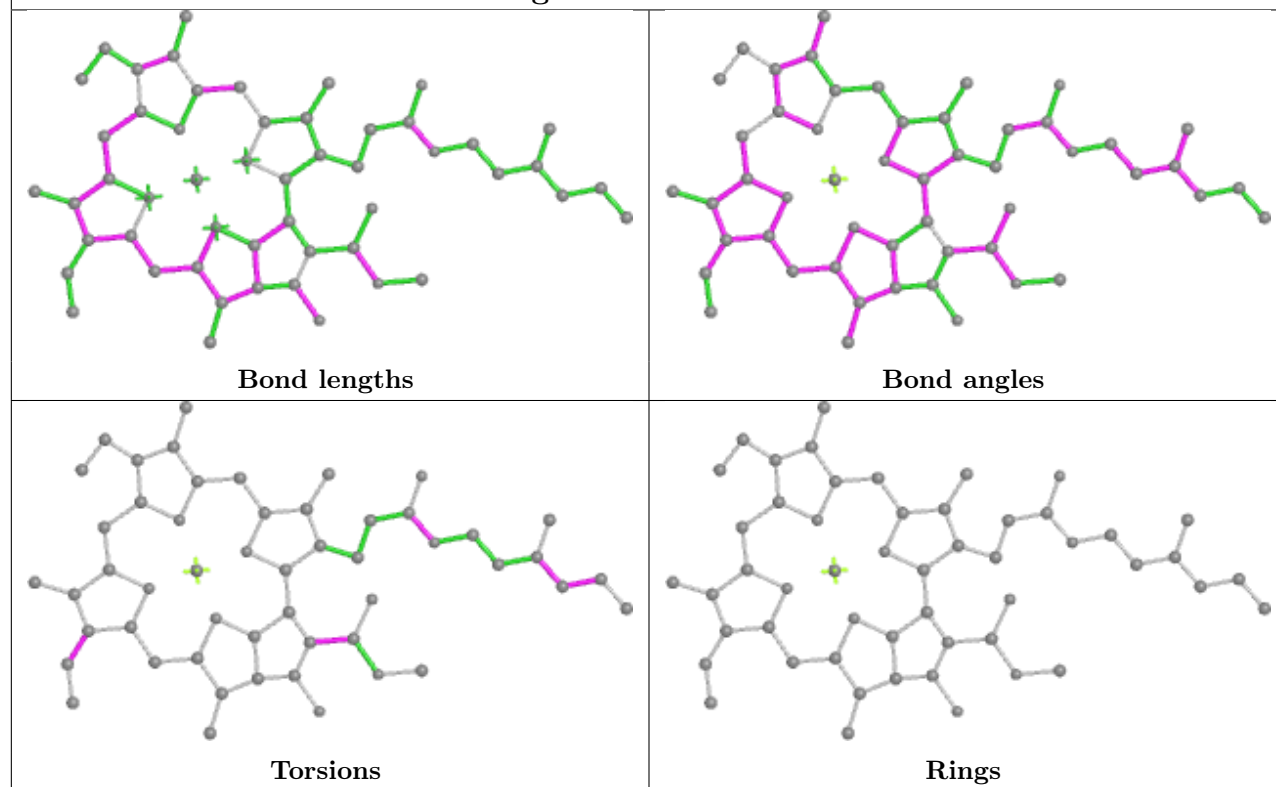
Ligand BCR I 101



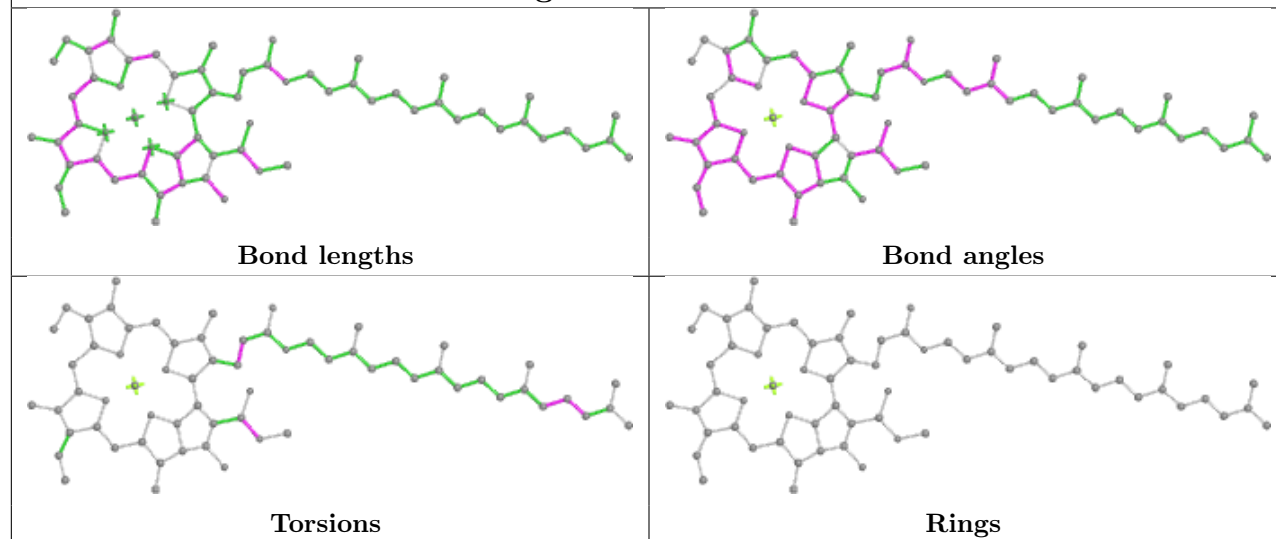
Ligand CLA b 833



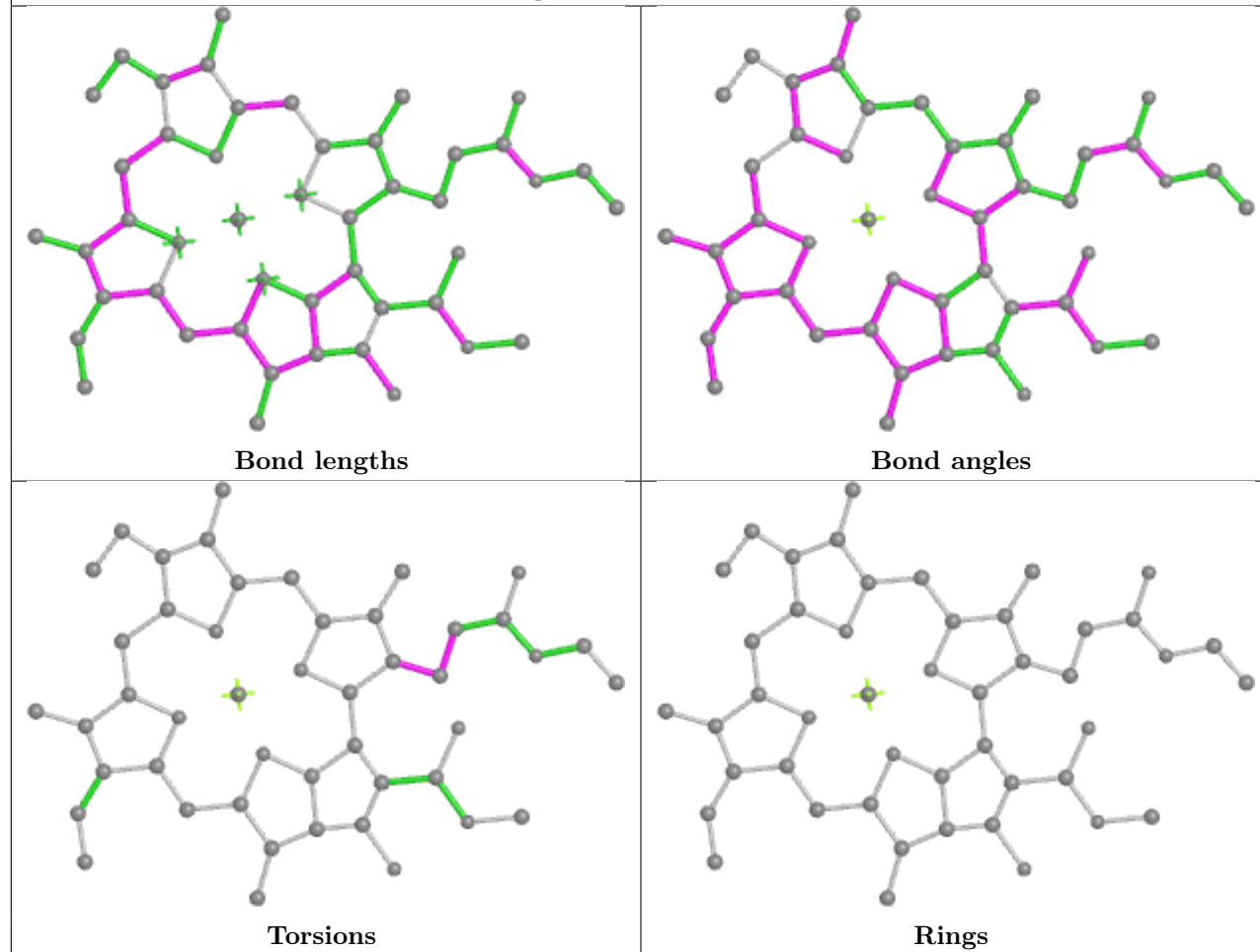
Ligand CLA A 845



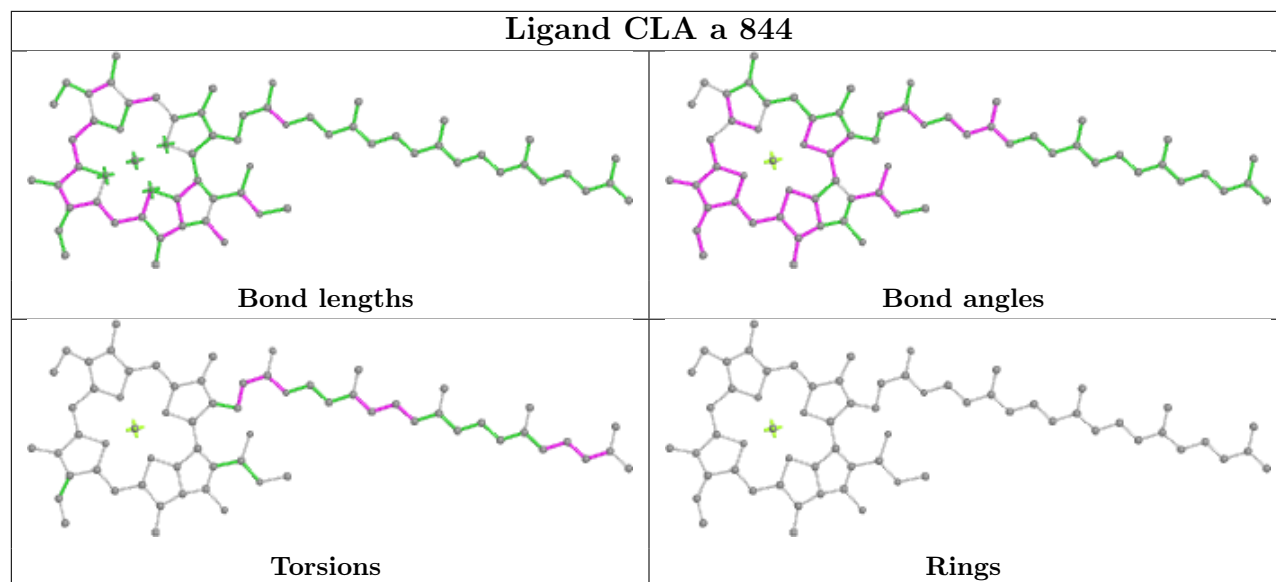
Ligand CLA b 840



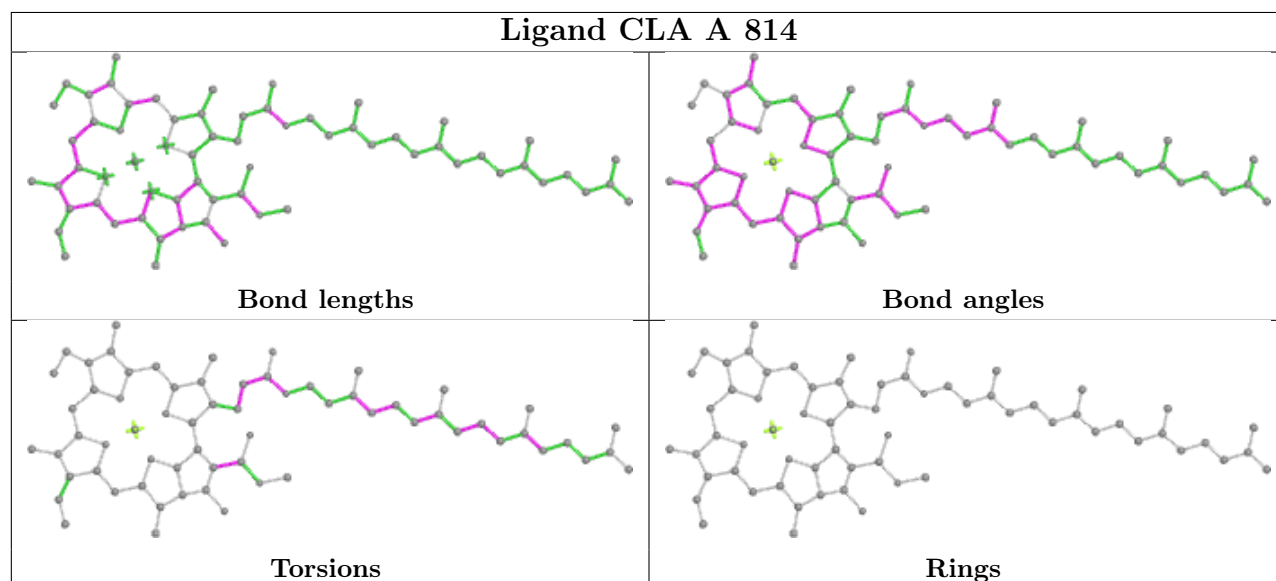
Ligand CLA 8 305



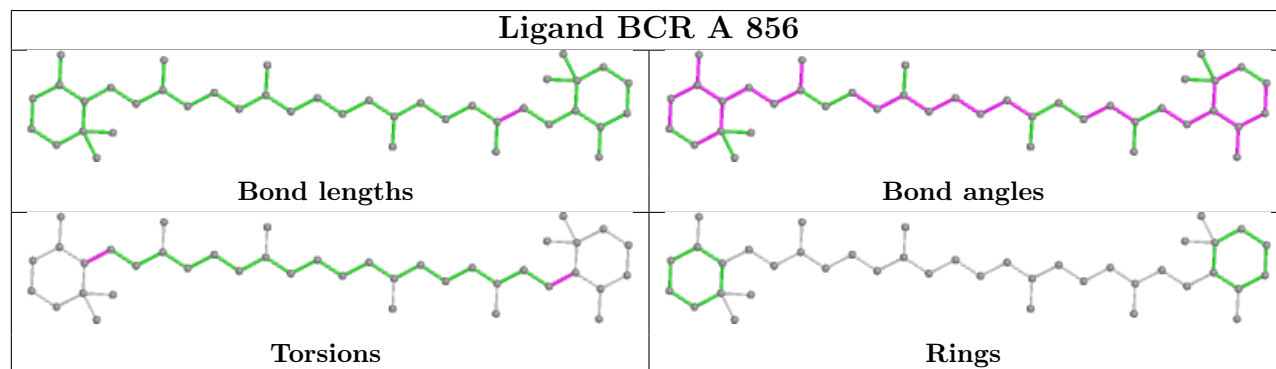
Ligand CLA a 844



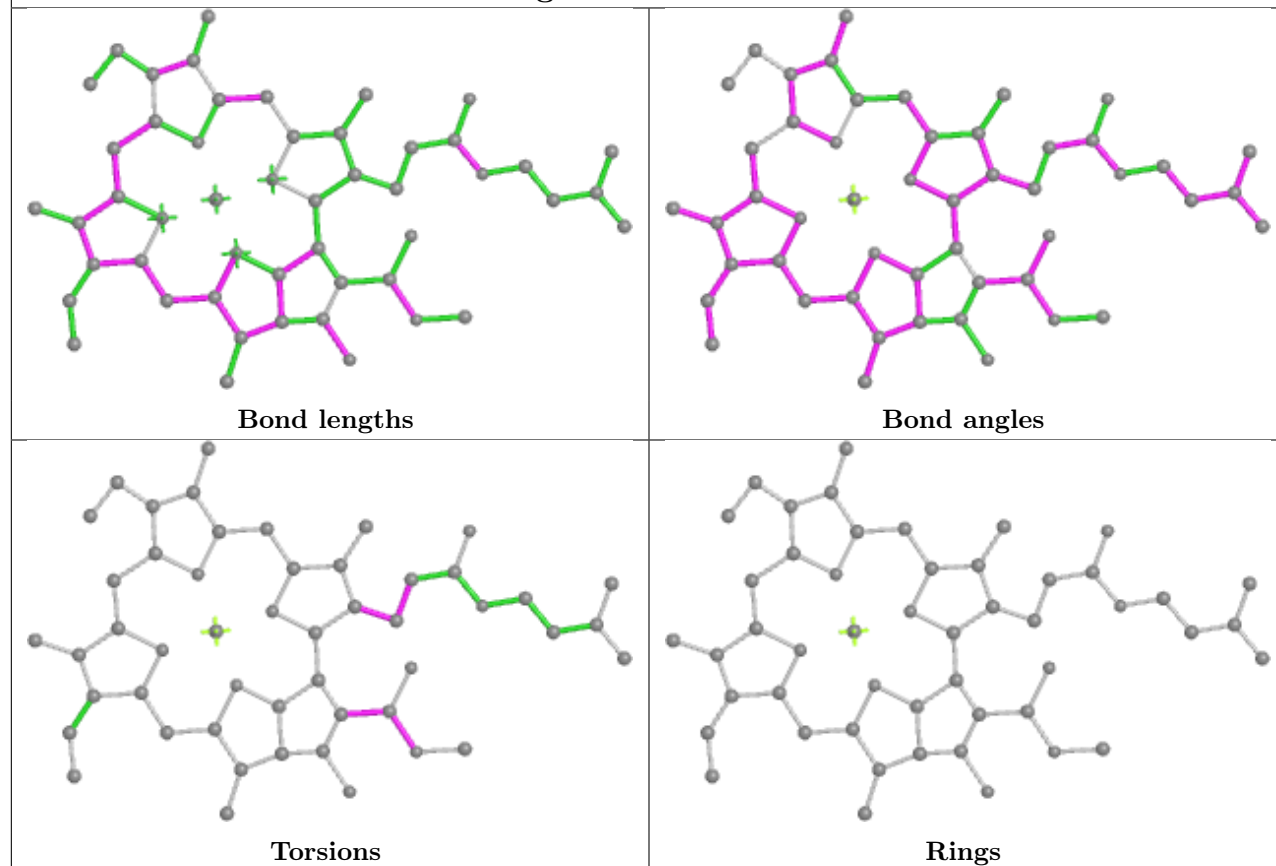
Ligand CLA A 814



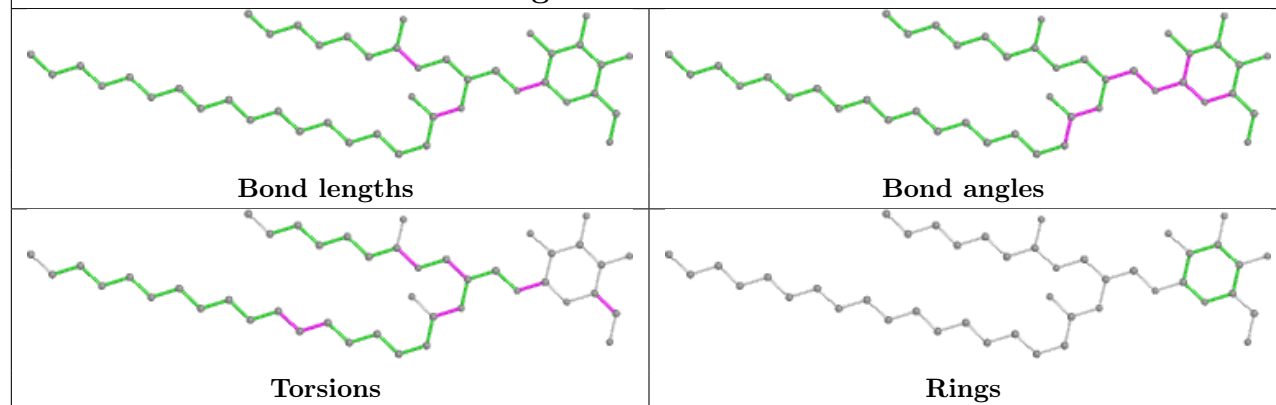
Ligand BCR A 856



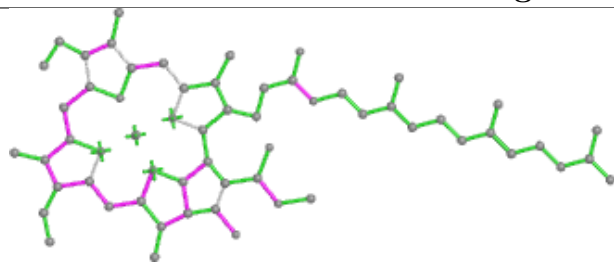
Ligand CLA 9 604



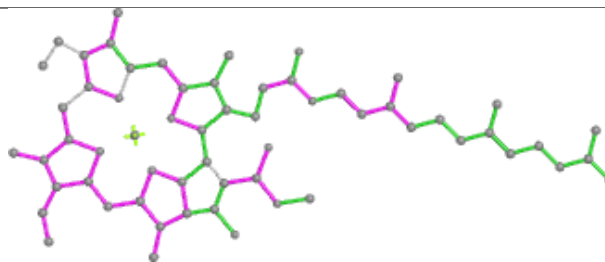
Ligand LMG 4 620



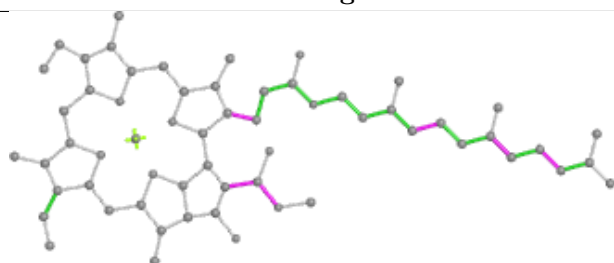
Ligand CLA B 815



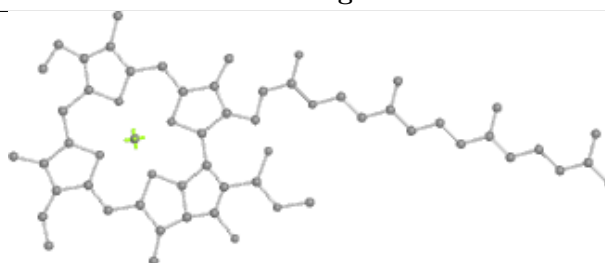
Bond lengths



Bond angles

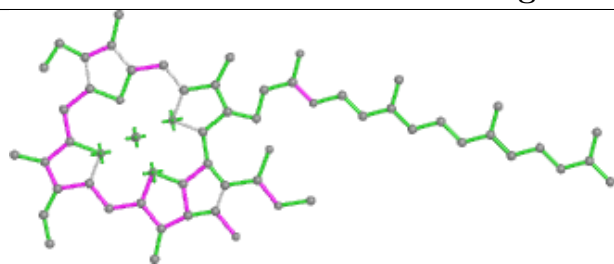


Torsions

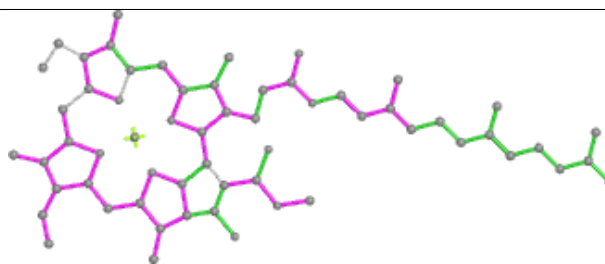


Rings

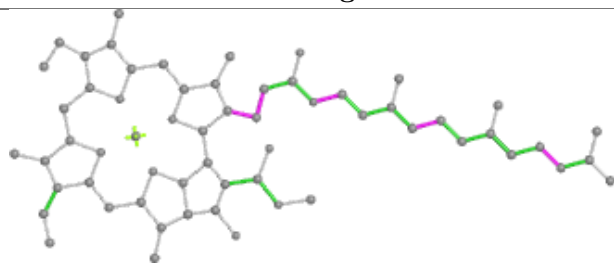
Ligand CLA 4 609



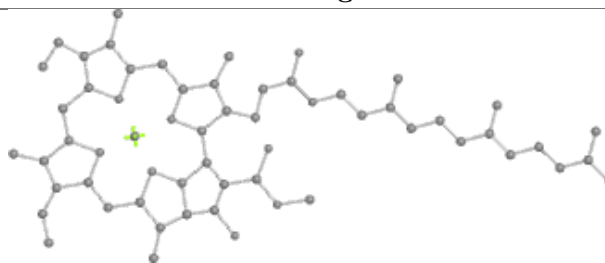
Bond lengths



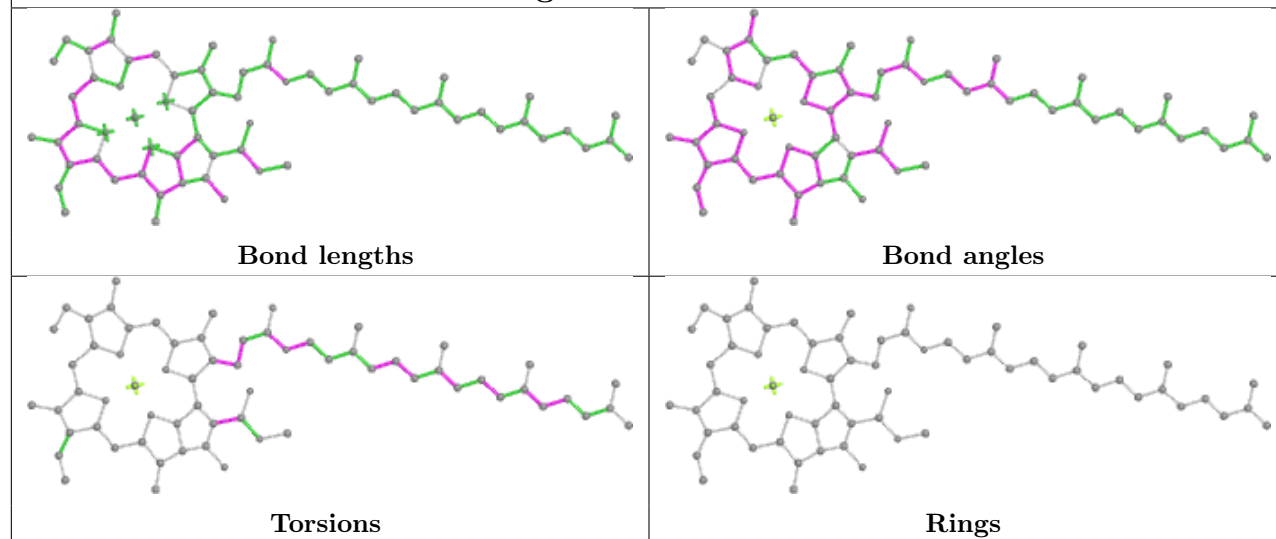
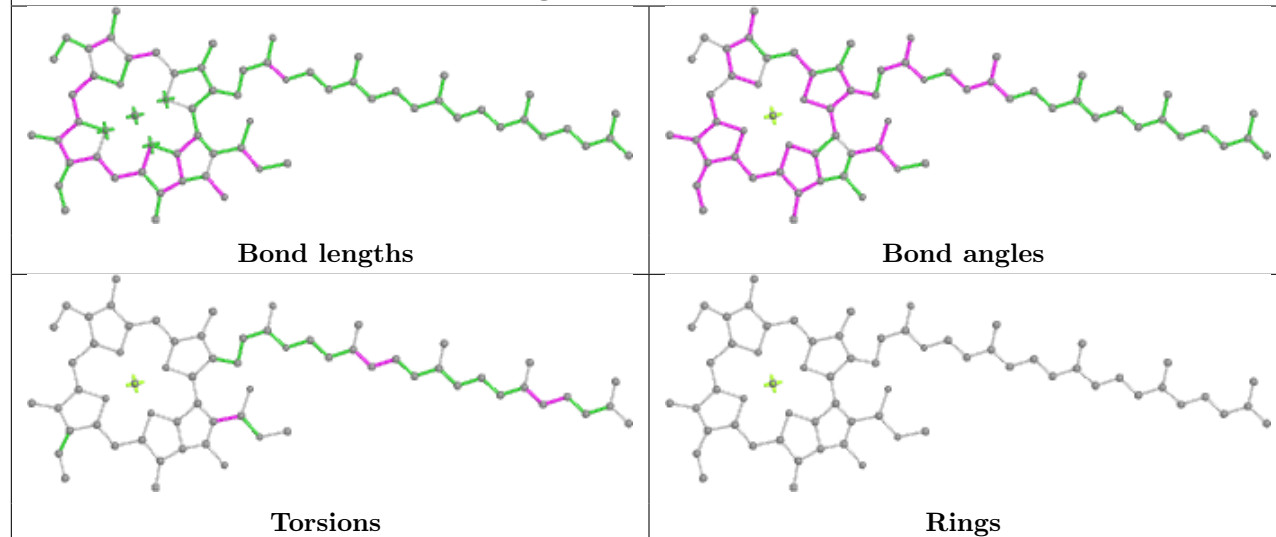
Bond angles



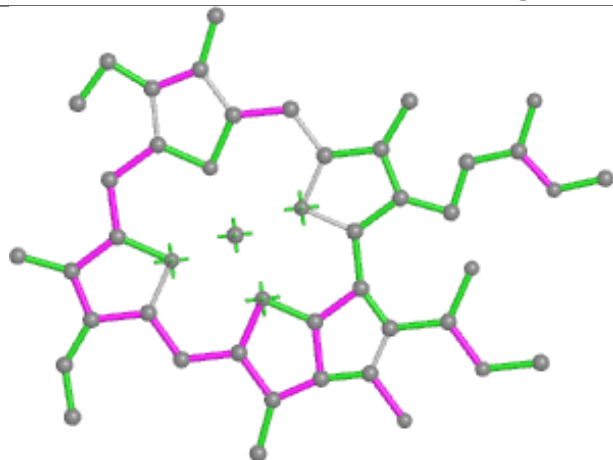
Torsions



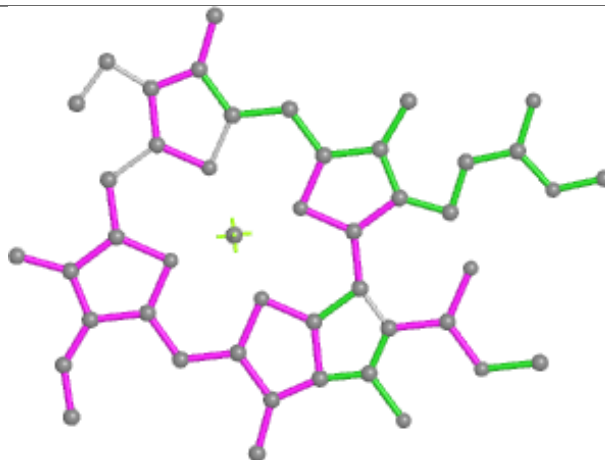
Rings

Ligand CLA a 812**Ligand CLA b 808**

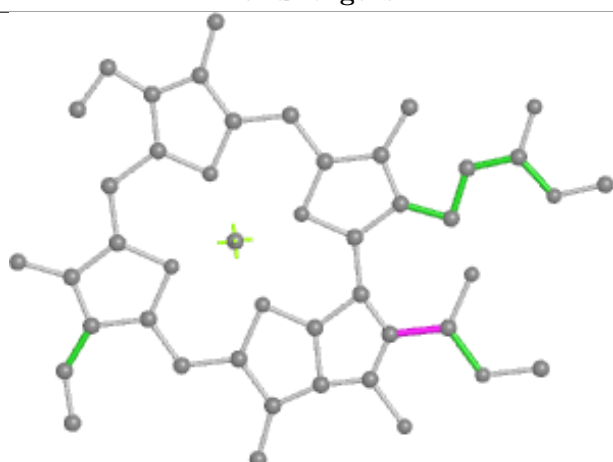
Ligand CLA B 821



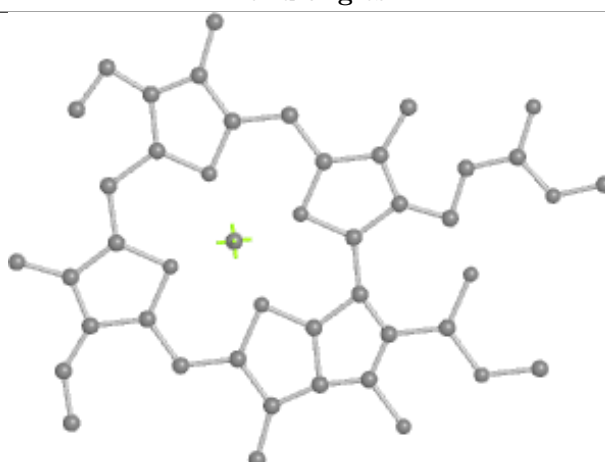
Bond lengths



Bond angles

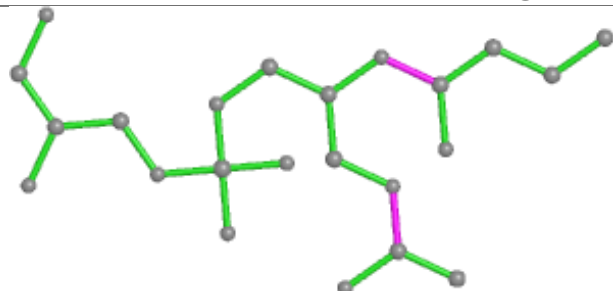


Torsions

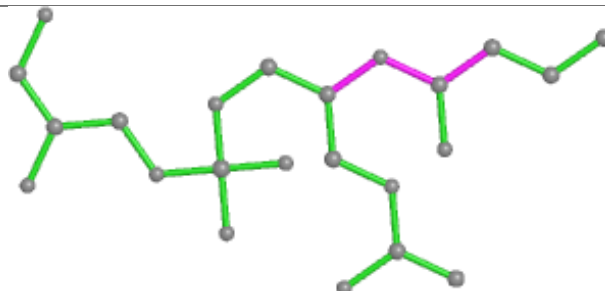


Rings

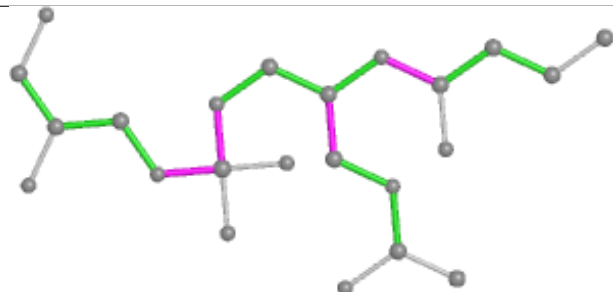
Ligand LHG 1 301



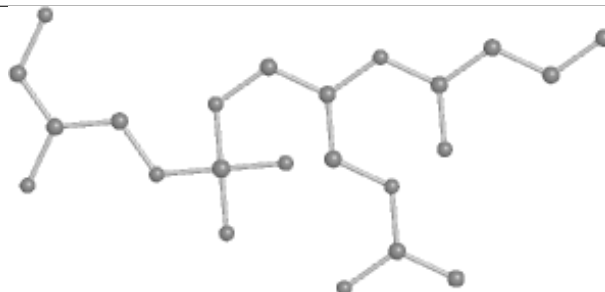
Bond lengths



Bond angles

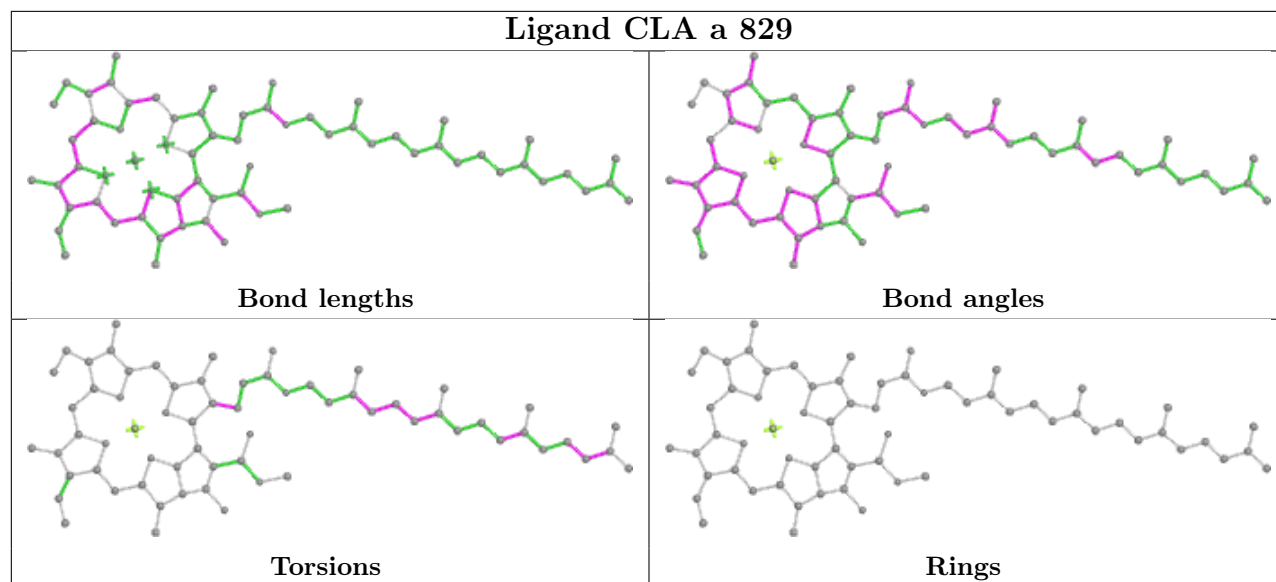


Torsions

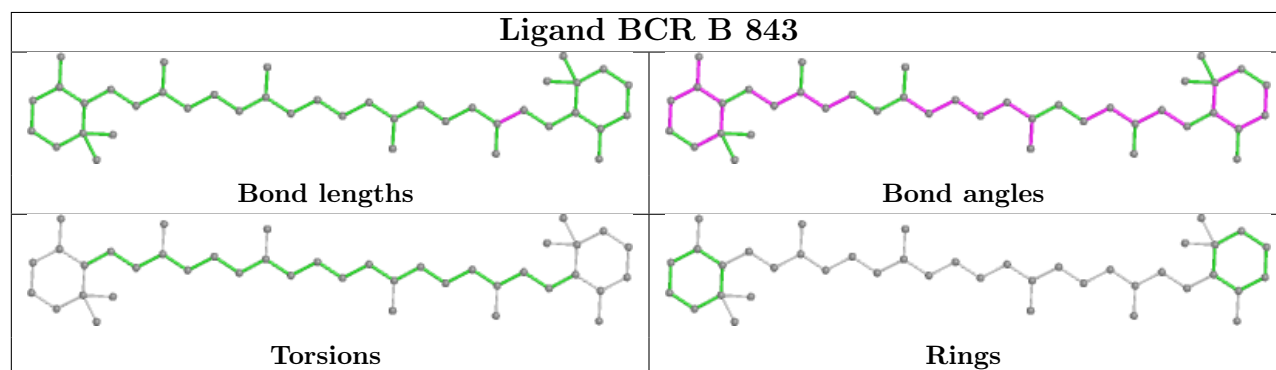


Rings

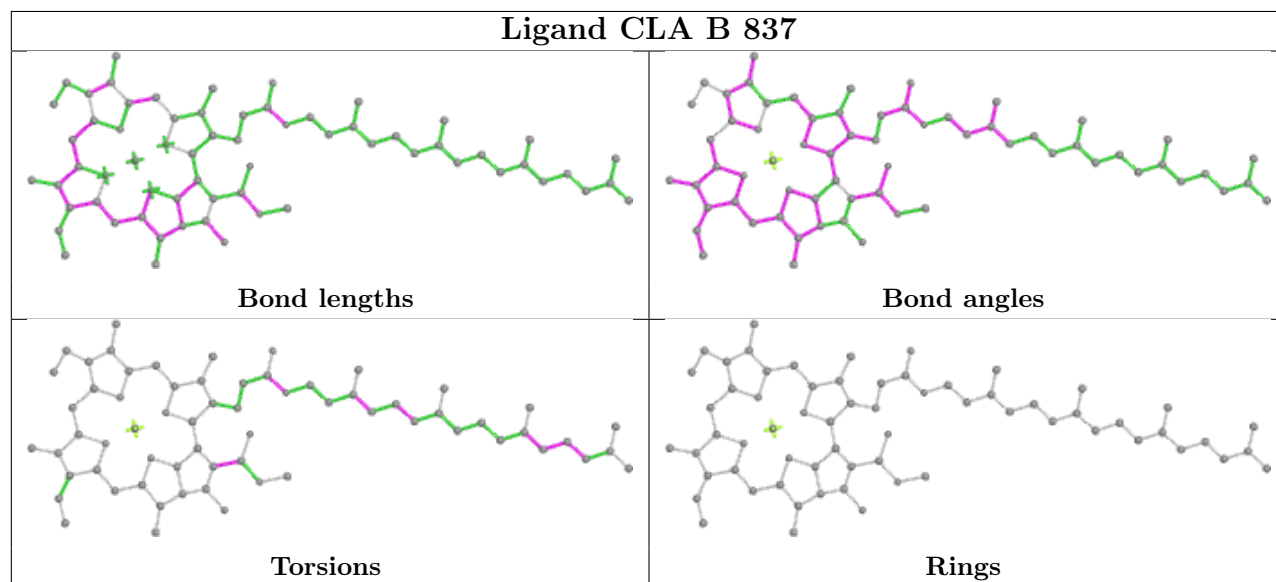
Ligand CLA a 829



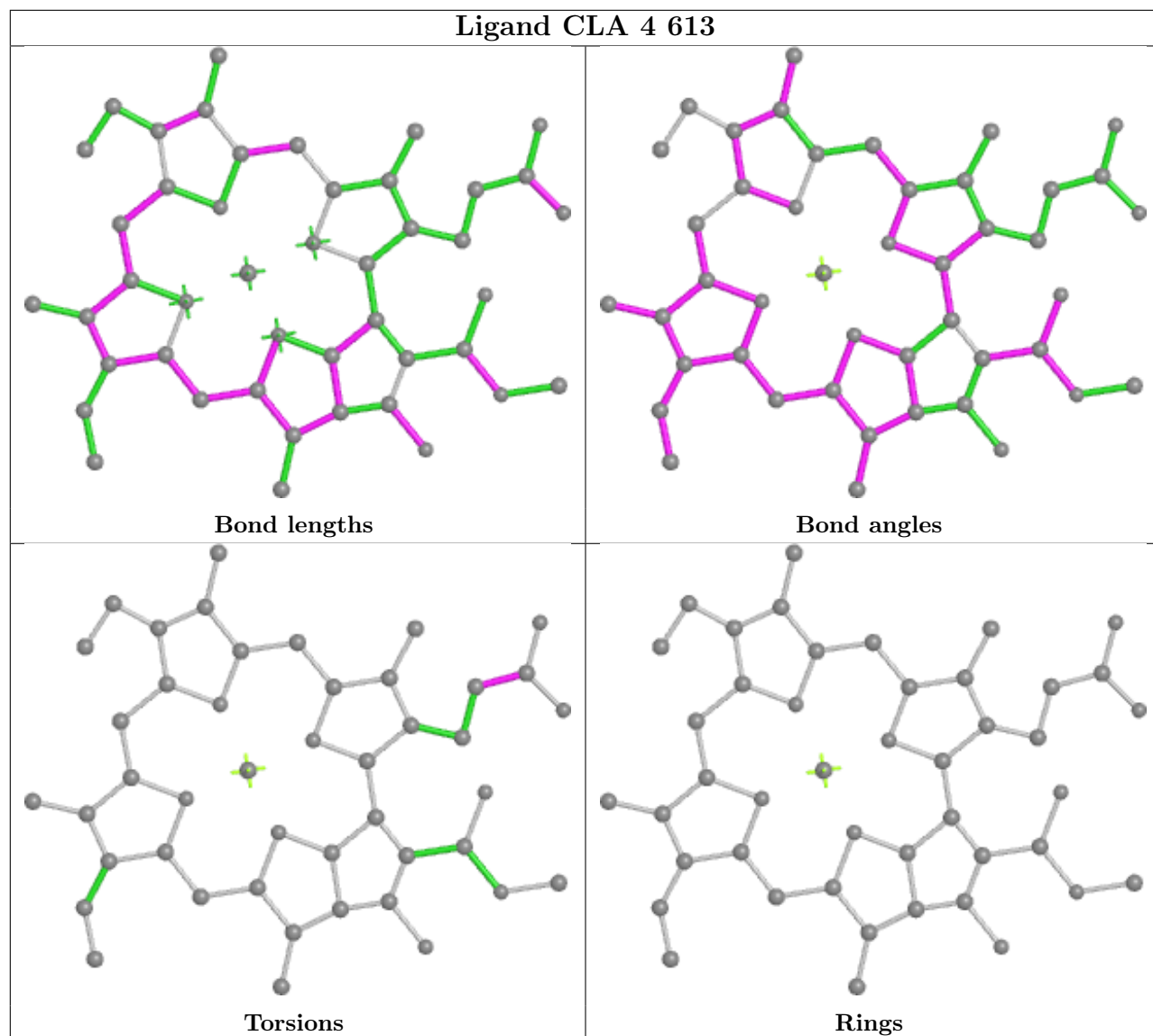
Ligand BCR B 843



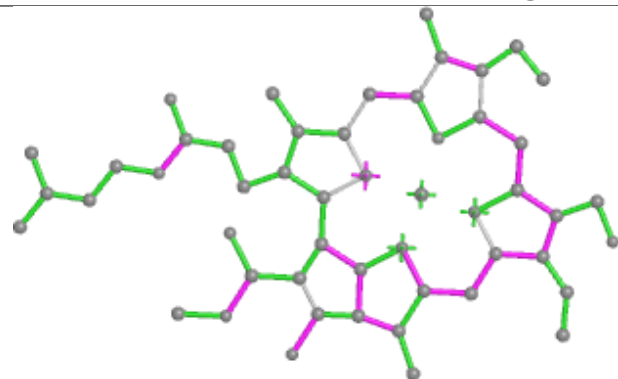
Ligand CLA B 837



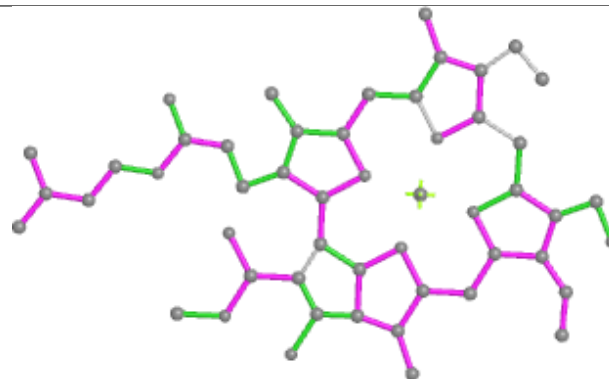
Ligand CLA 4 613



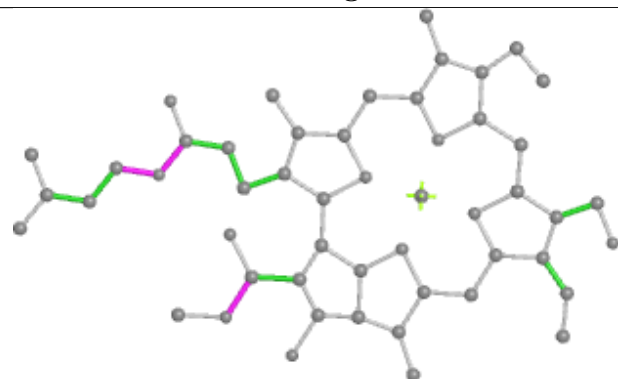
Ligand CHL 2 607



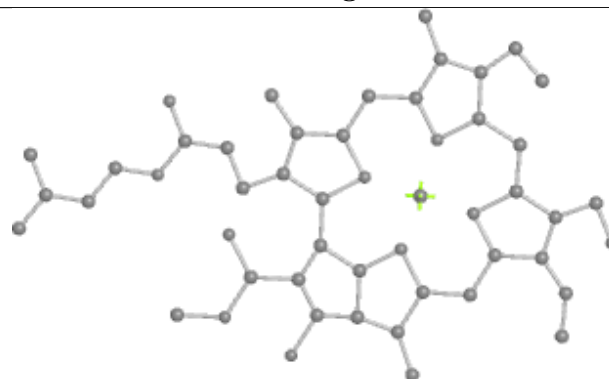
Bond lengths



Bond angles

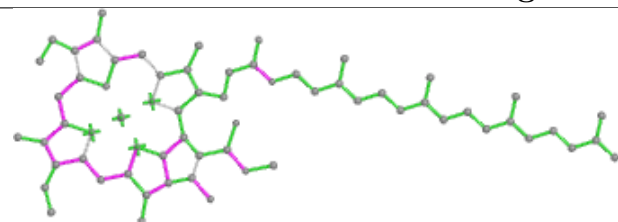


Torsions

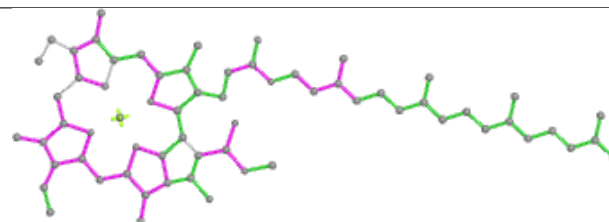


Rings

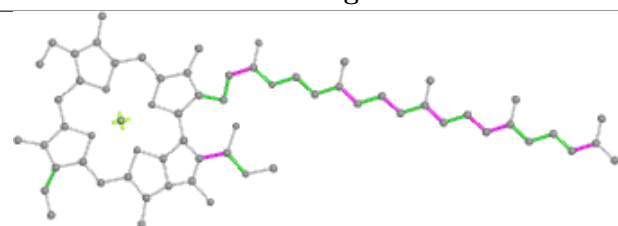
Ligand CLA A 828



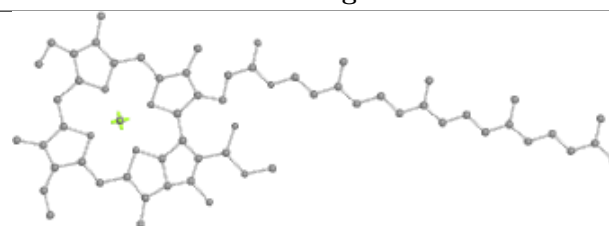
Bond lengths



Bond angles

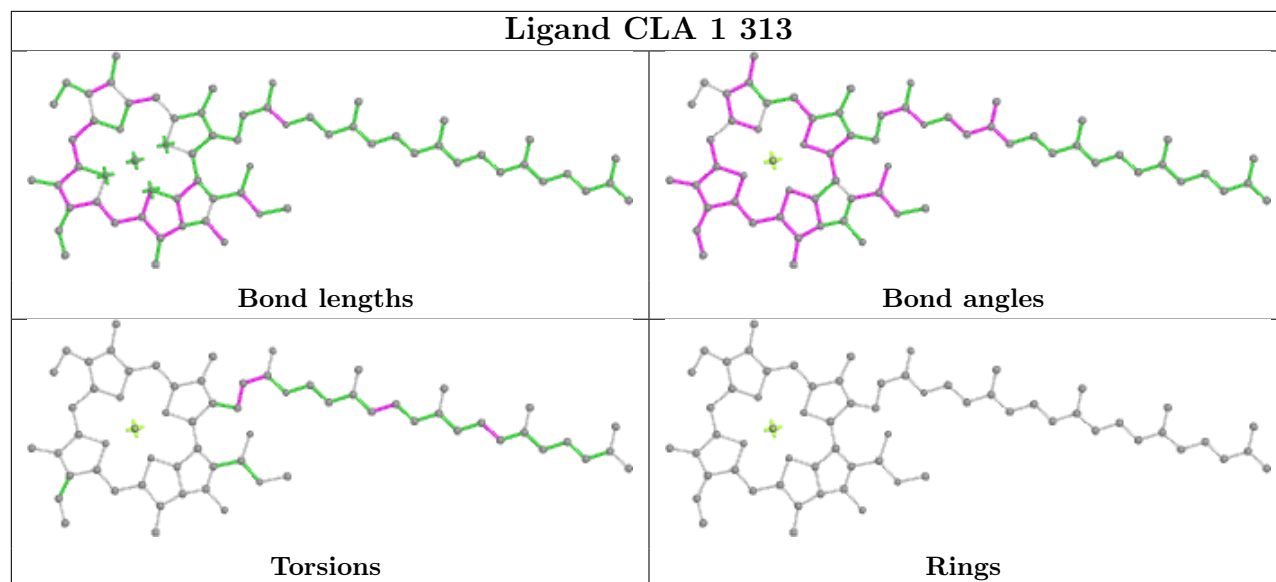


Torsions

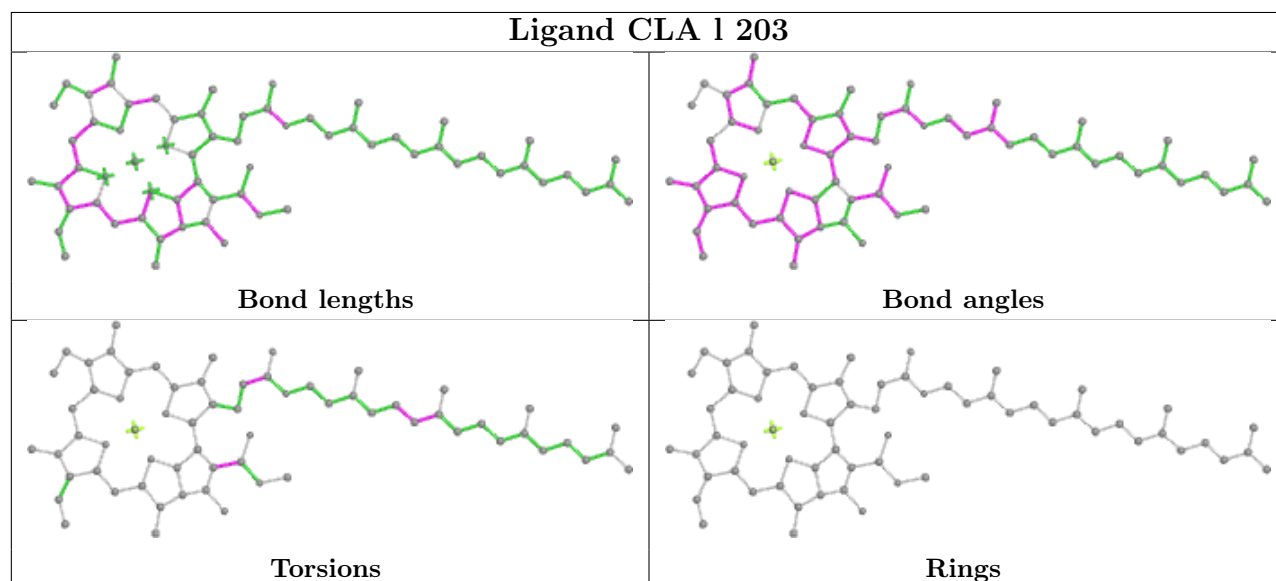


Rings

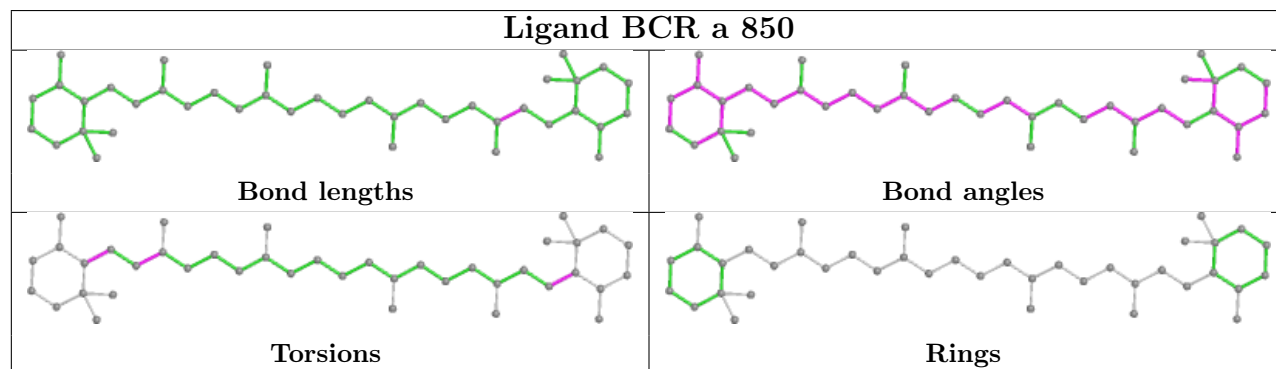
Ligand CLA 1 313



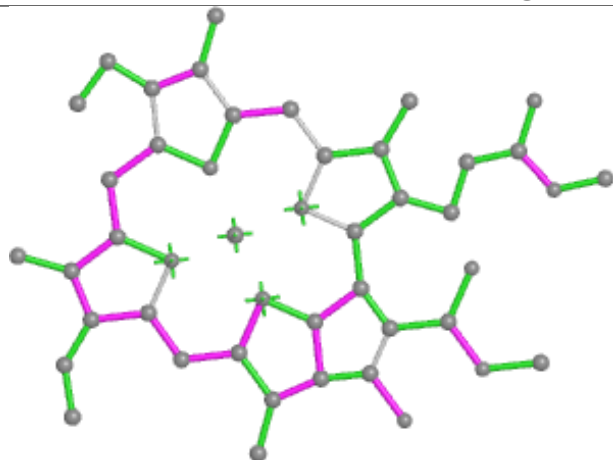
Ligand CLA 1 203



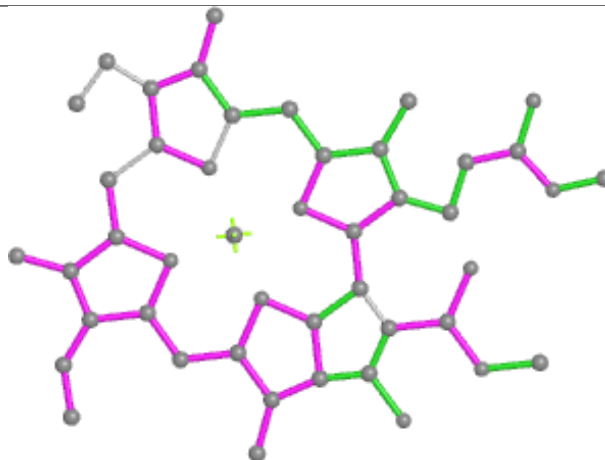
Ligand BCR a 850



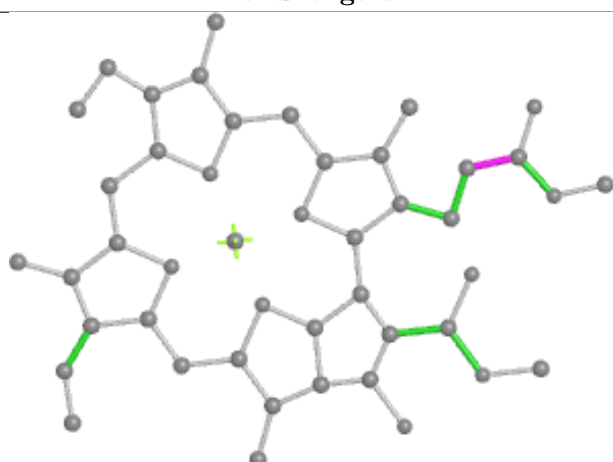
Ligand CLA 4 603



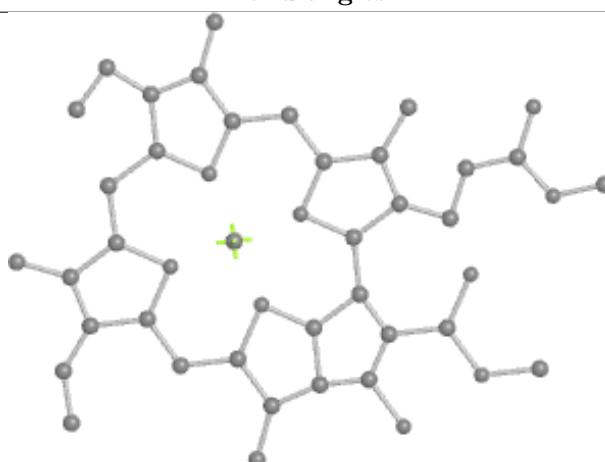
Bond lengths



Bond angles

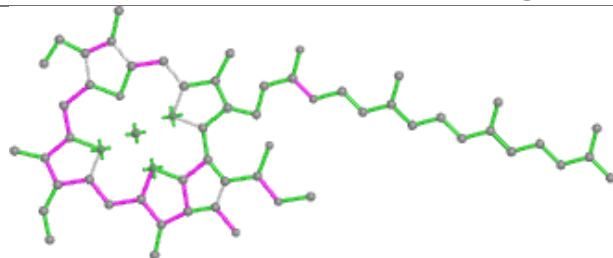


Torsions

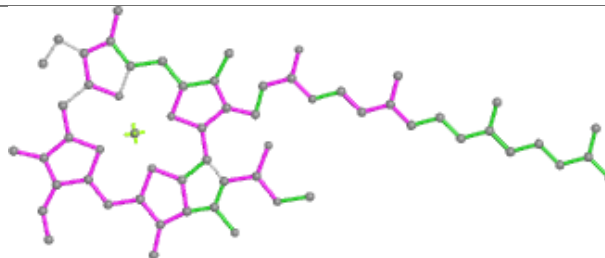


Rings

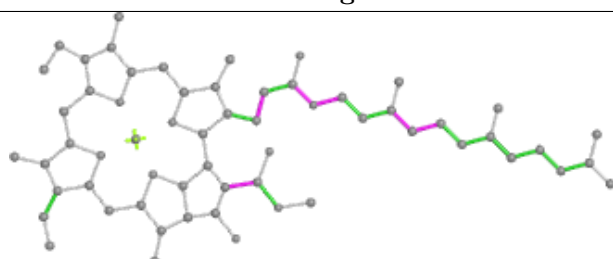
Ligand CLA 3 302



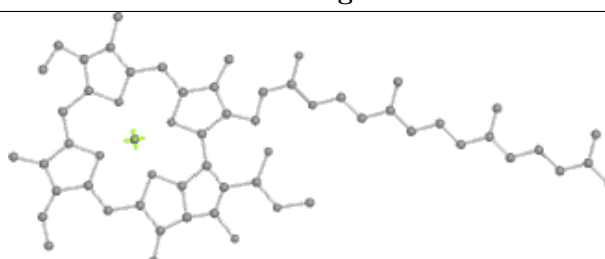
Bond lengths



Bond angles

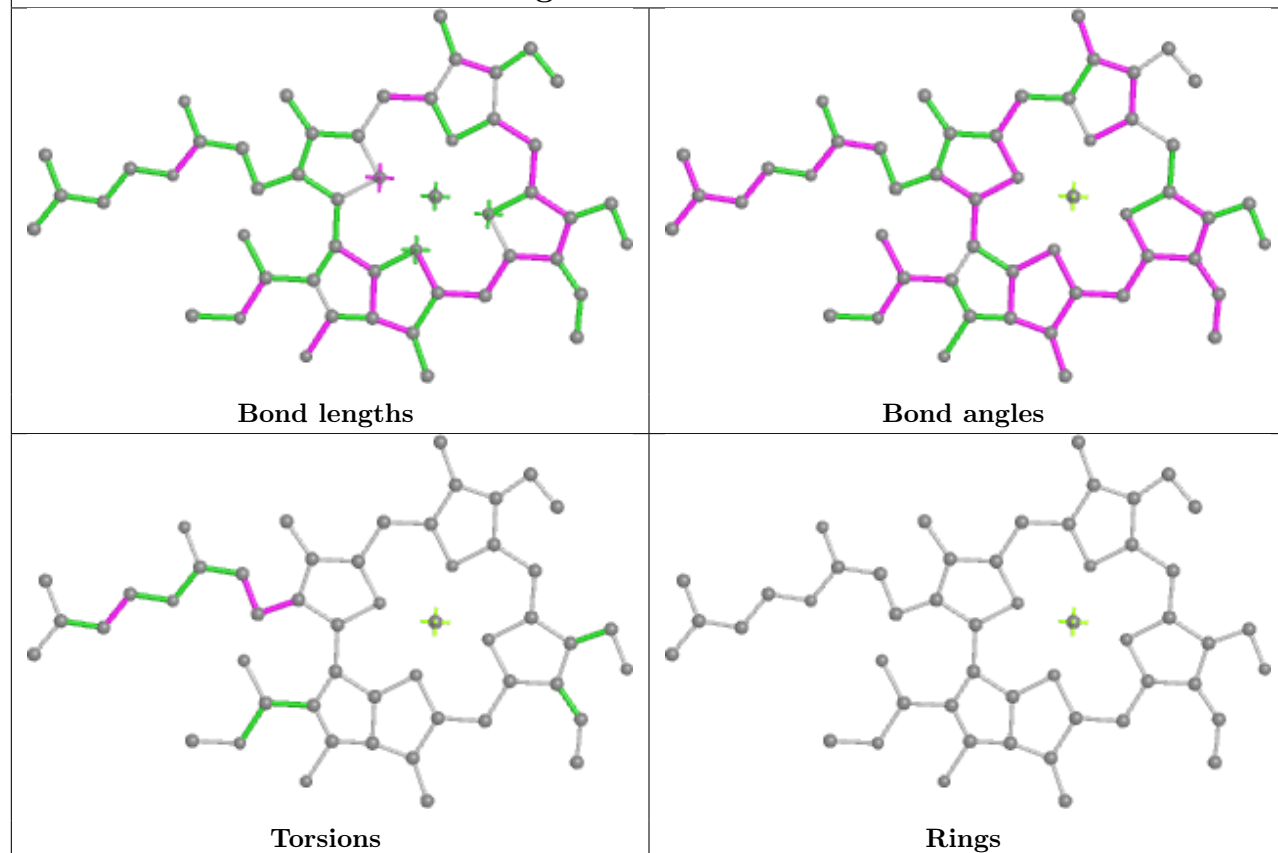


Torsions

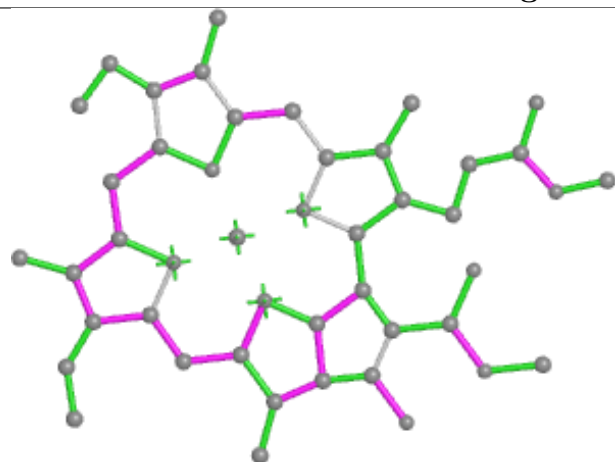


Rings

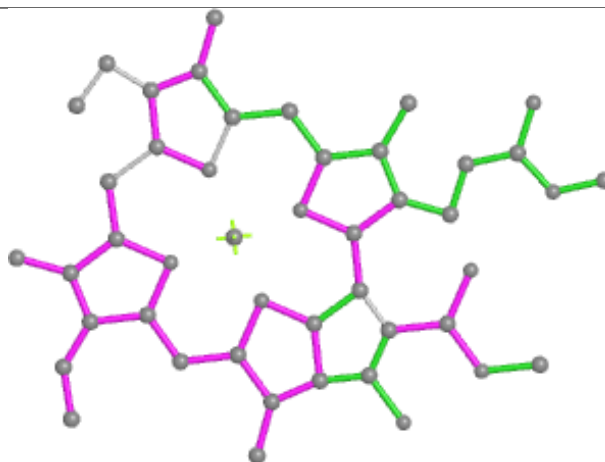
Ligand CHL 9 606



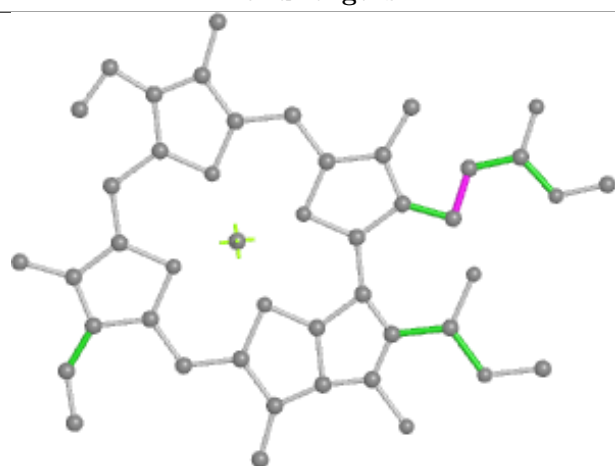
Ligand CLA 3 314



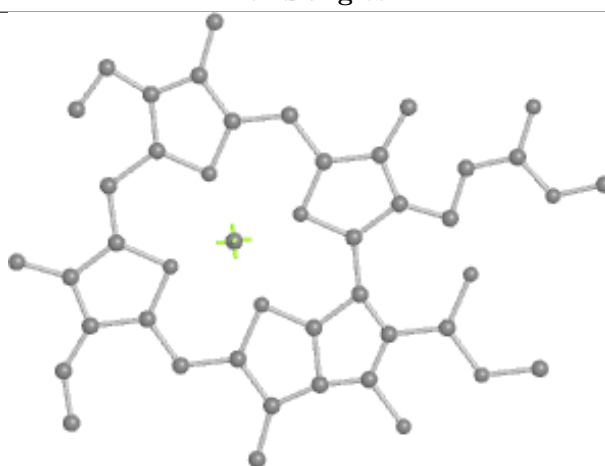
Bond lengths



Bond angles

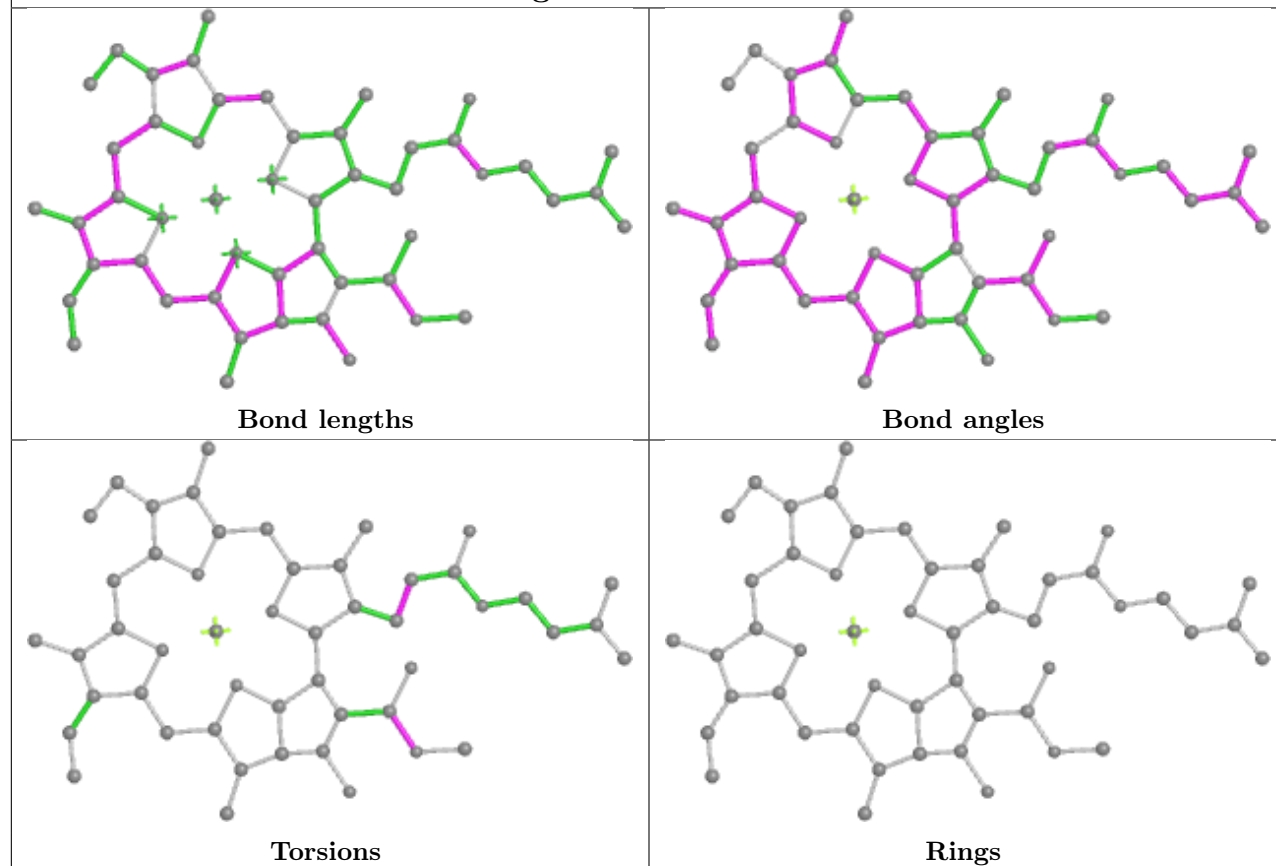


Torsions

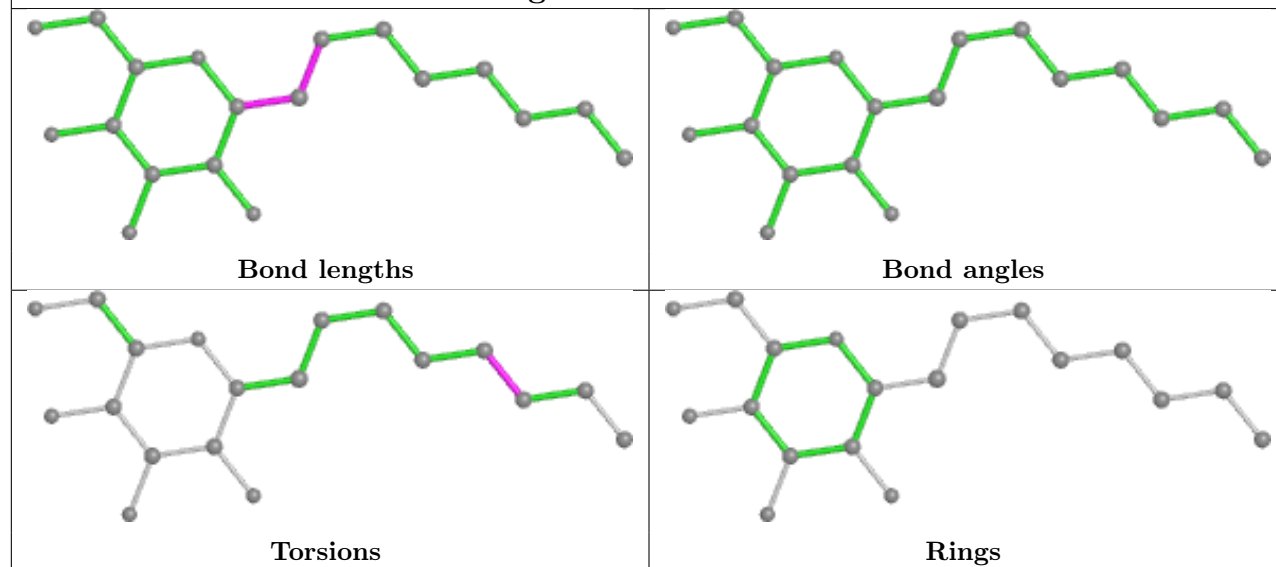


Rings

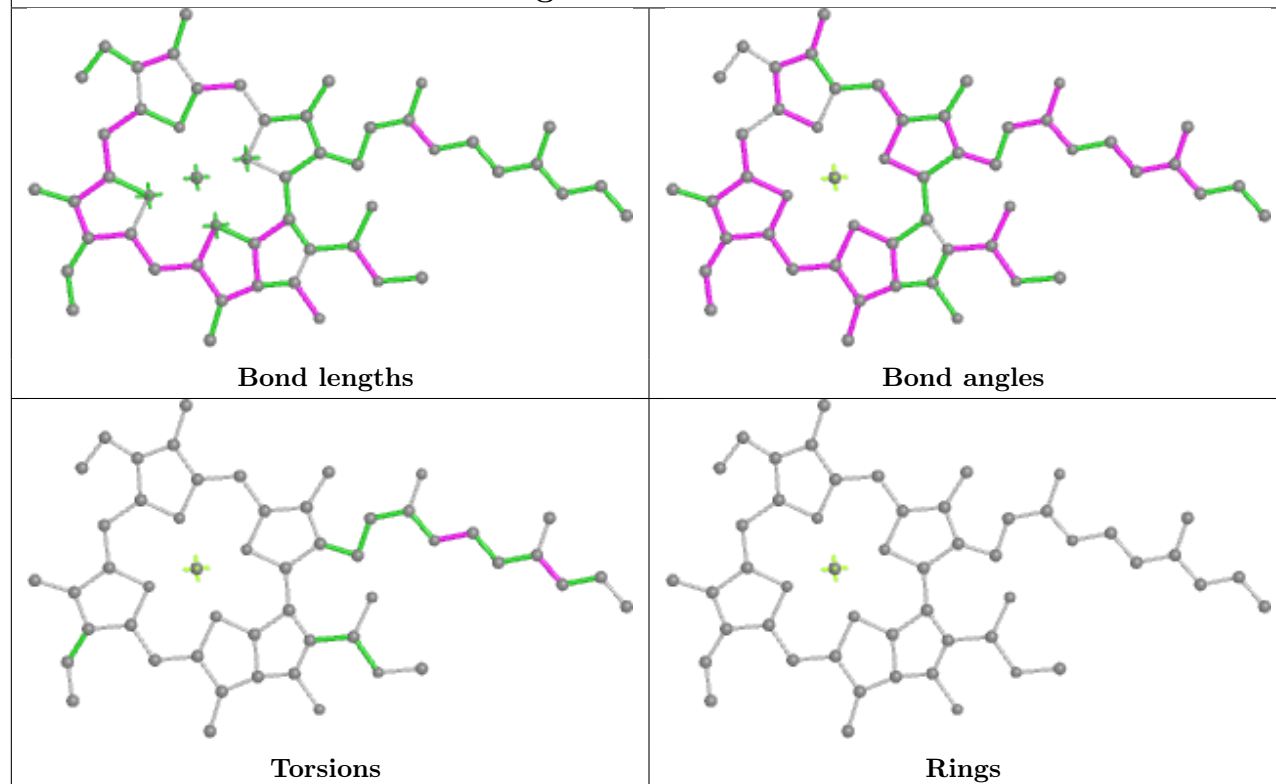
Ligand CLA B 820



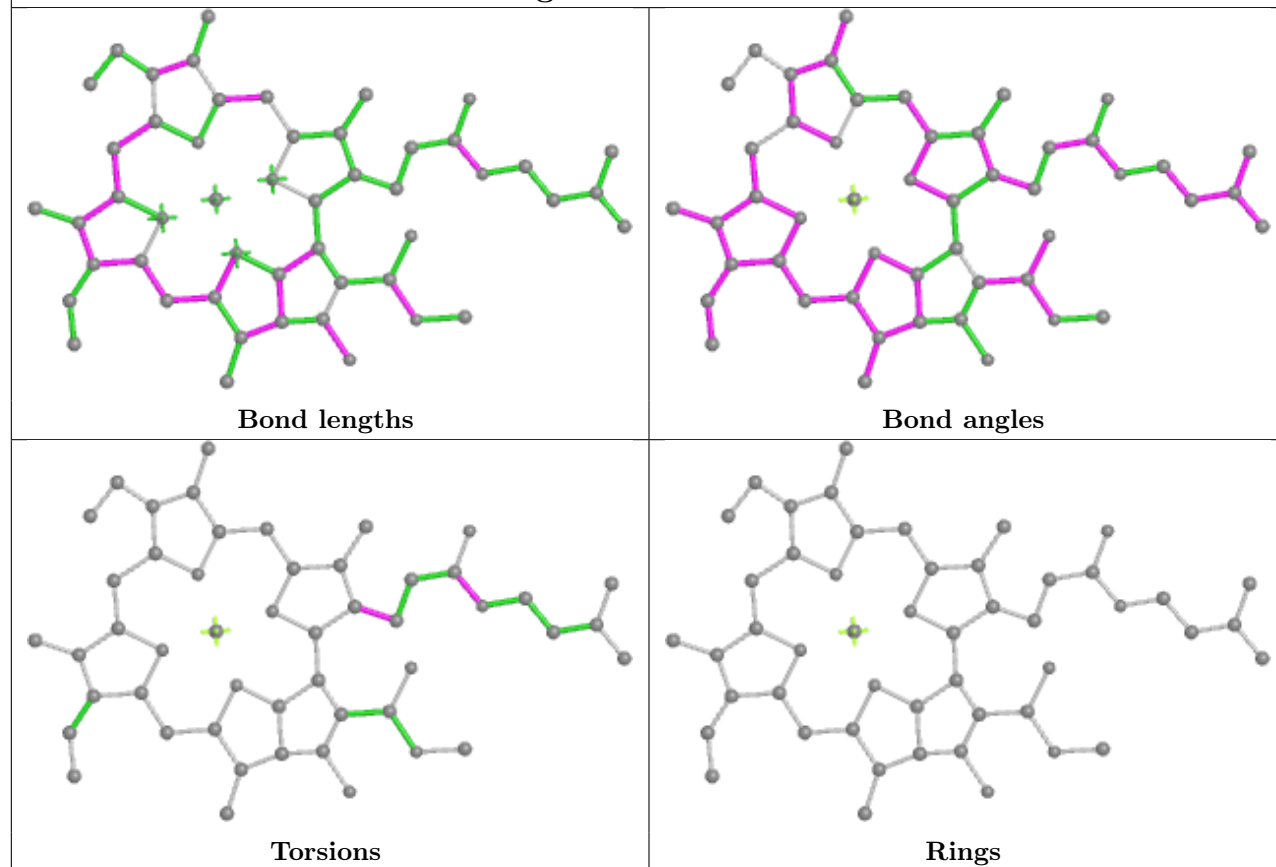
Ligand HTG A 855

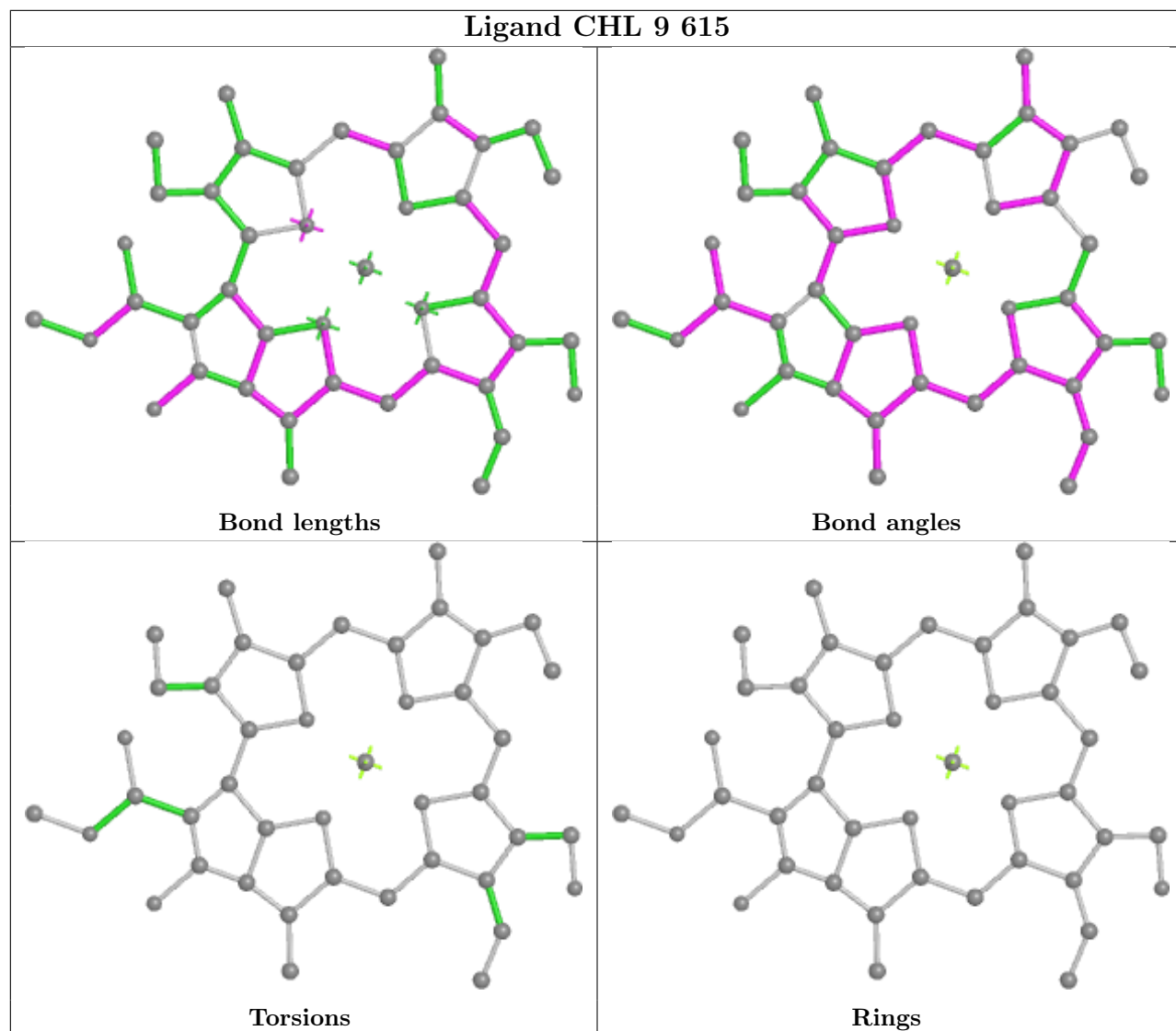
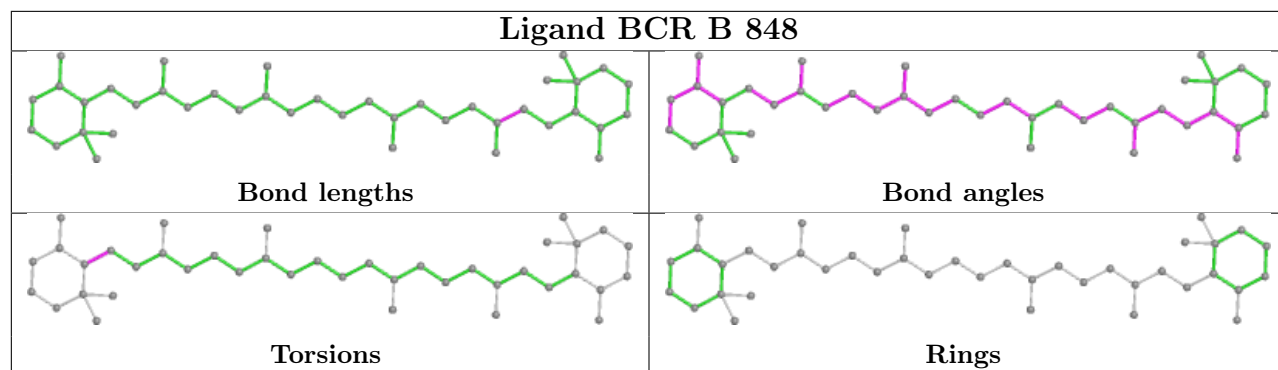


Ligand CLA 1 306

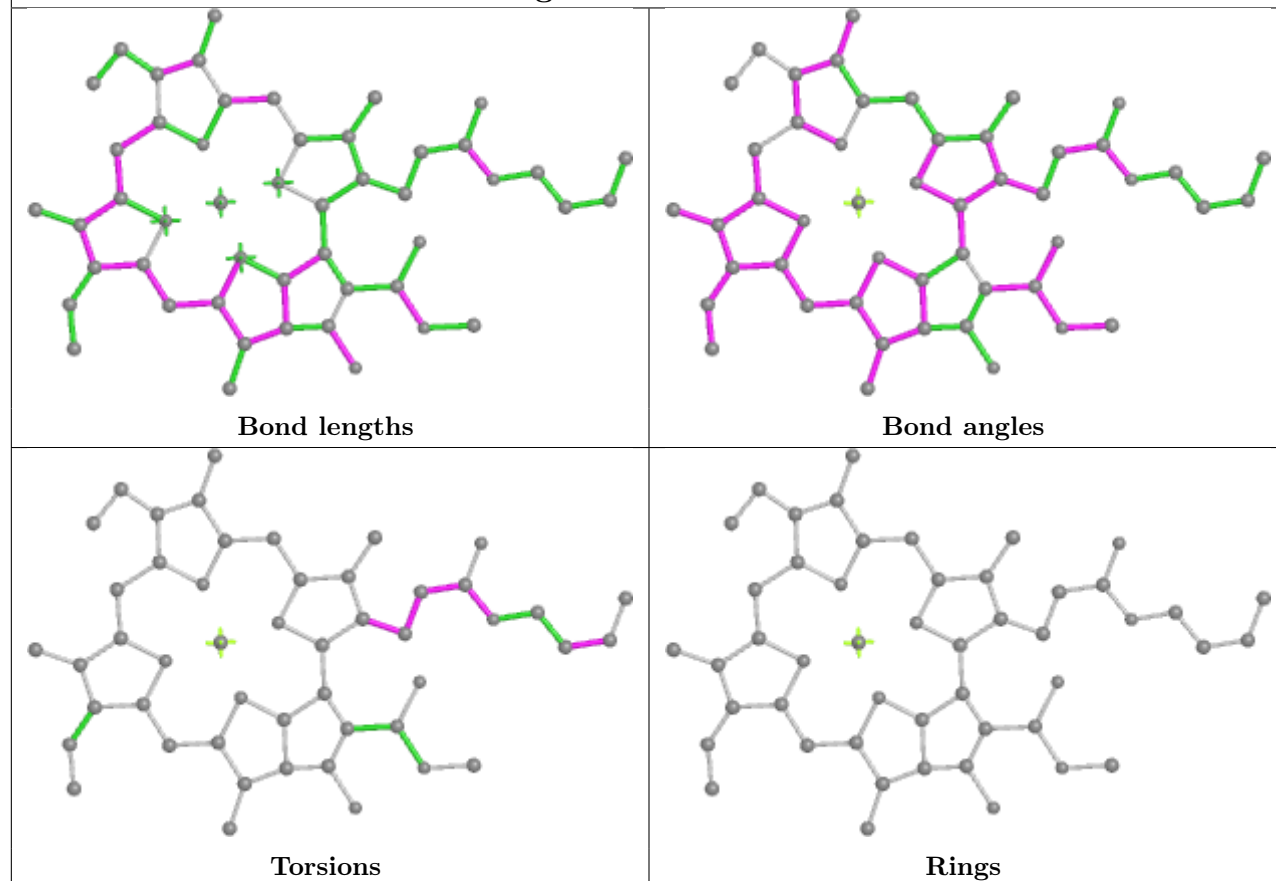


Ligand CLA 9 608

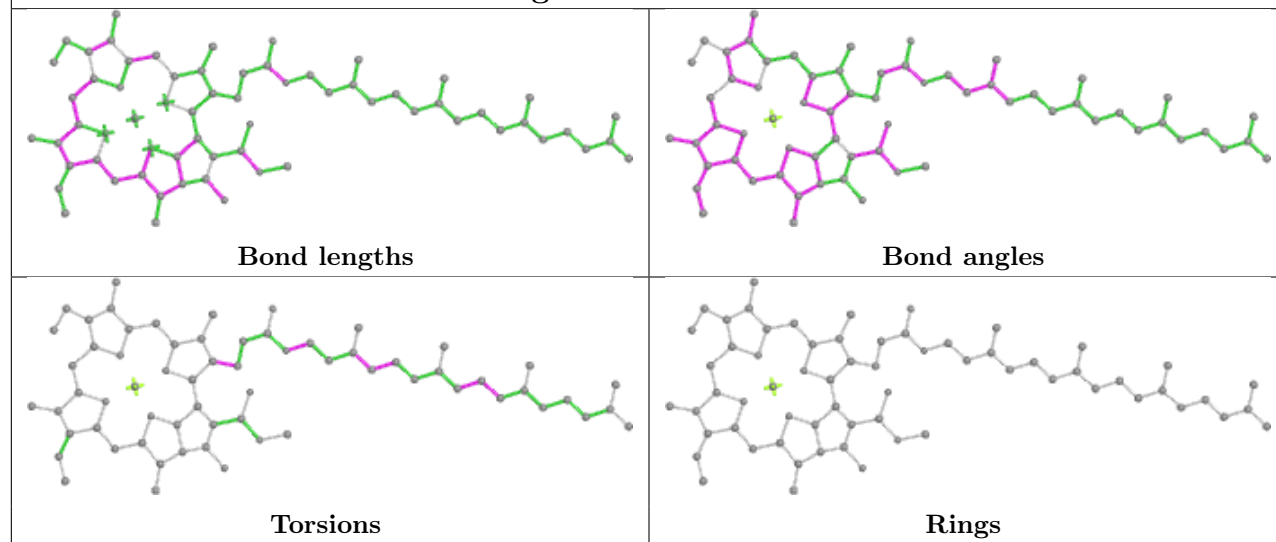




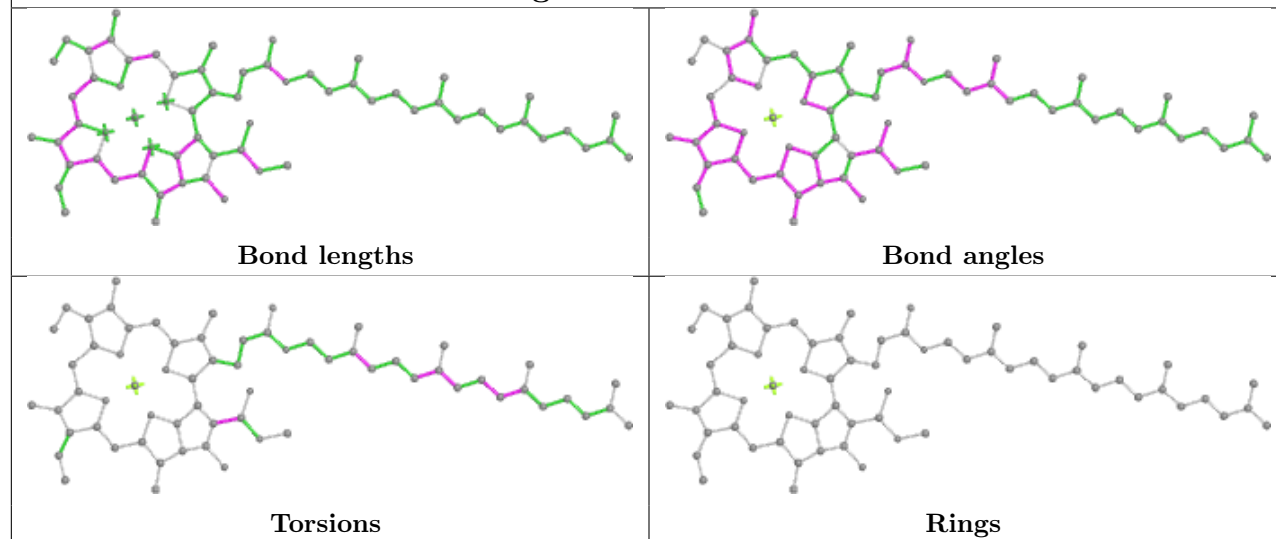
Ligand CLA b 831



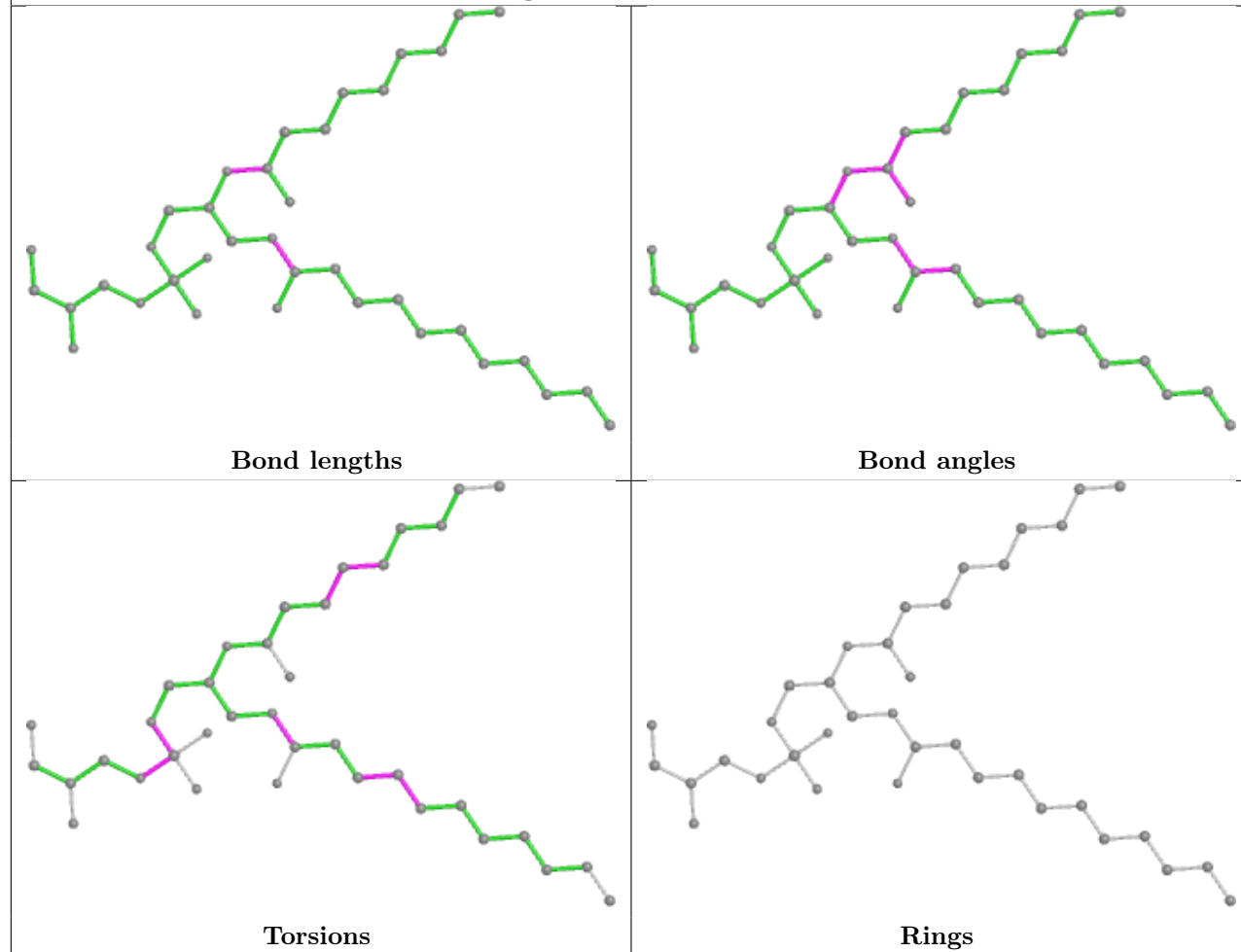
Ligand CLA A 833



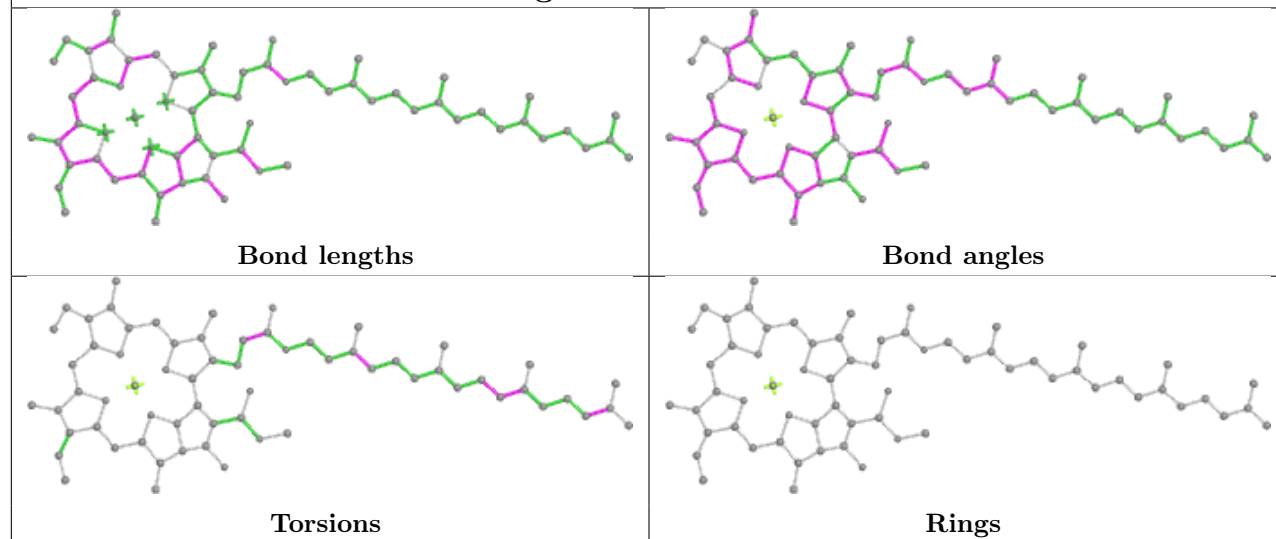
Ligand CLA B 826



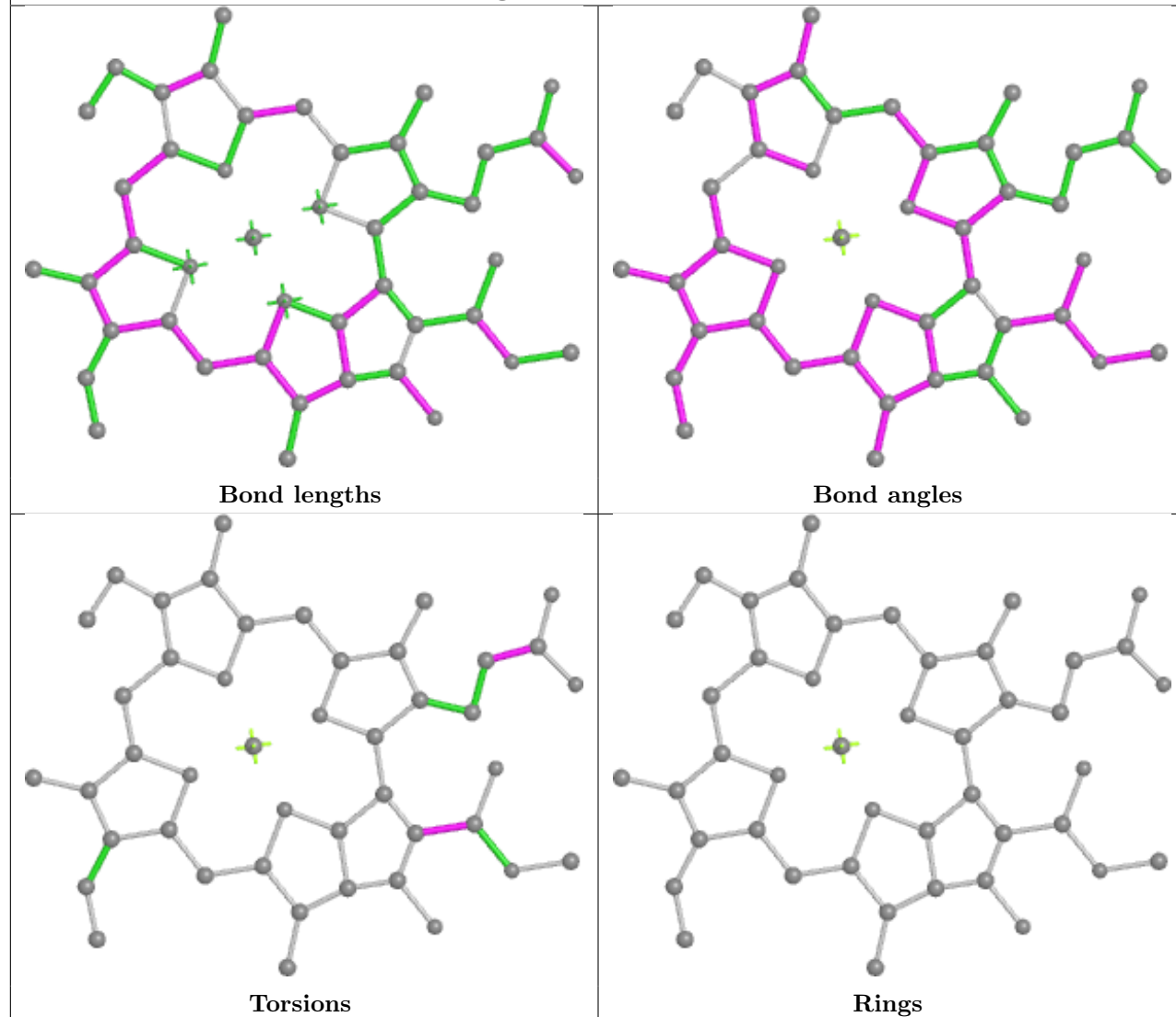
Ligand LHG 7 618



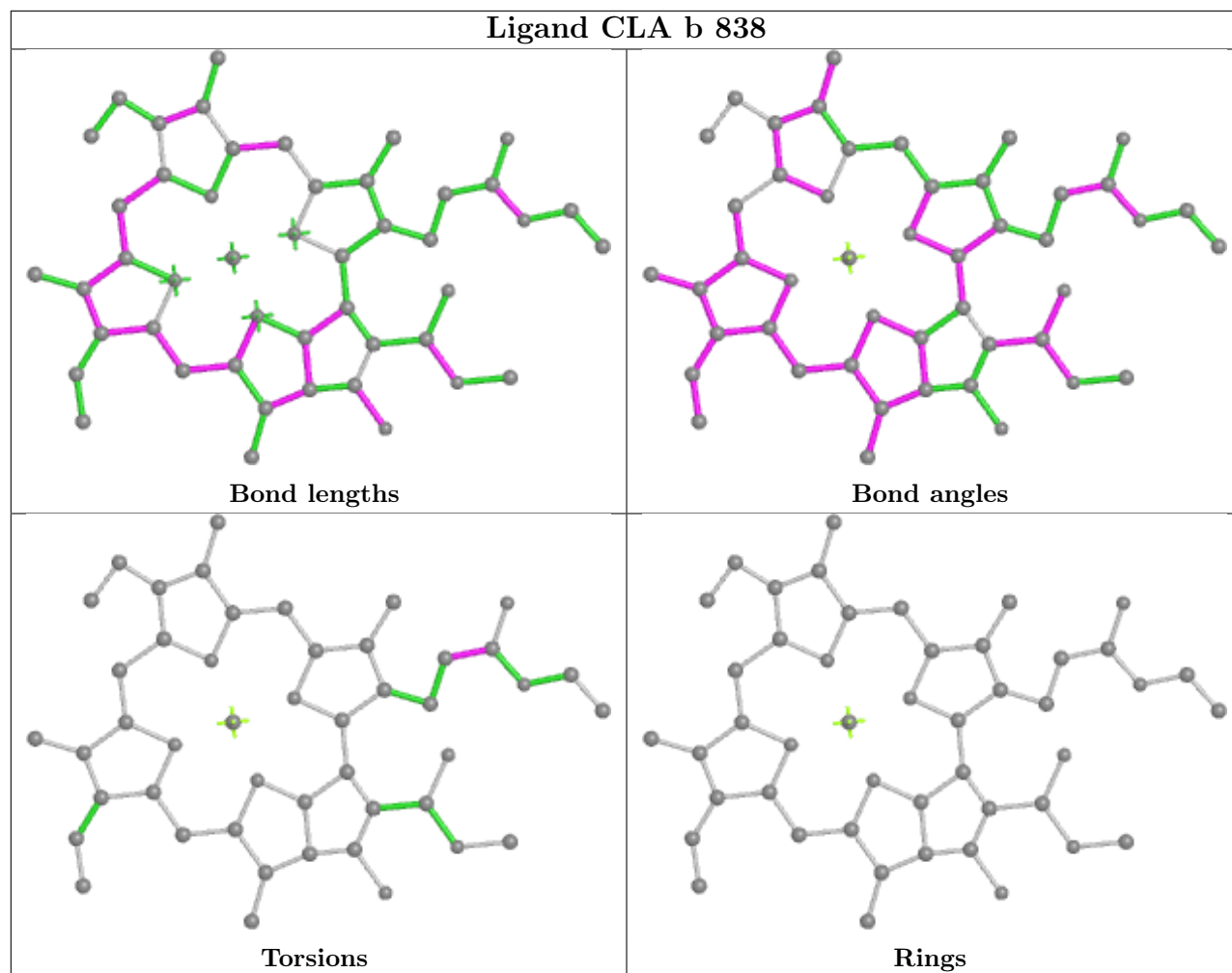
Ligand CLA b 809



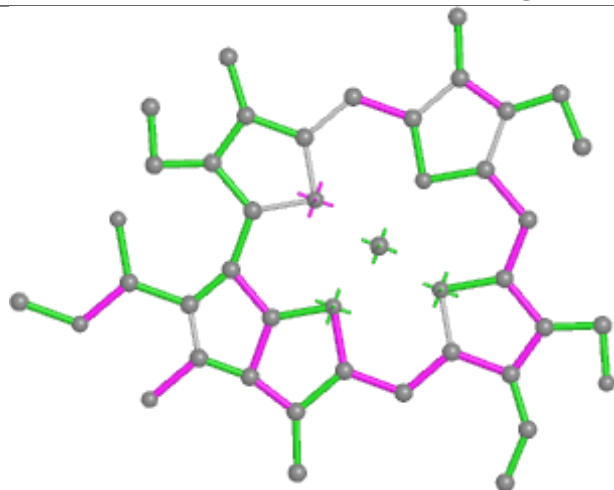
Ligand CLA 8 311



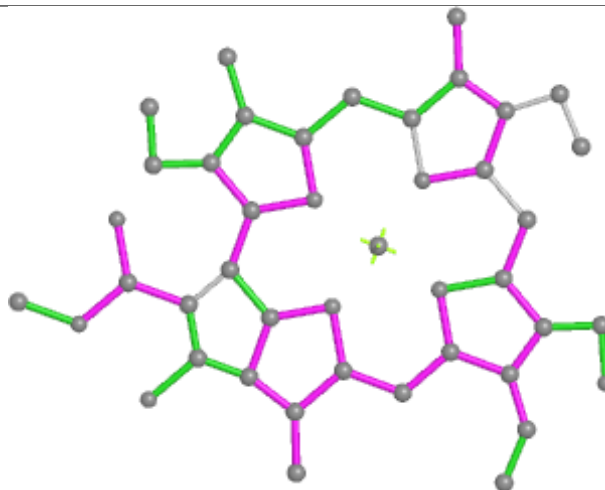
Ligand CLA b 838



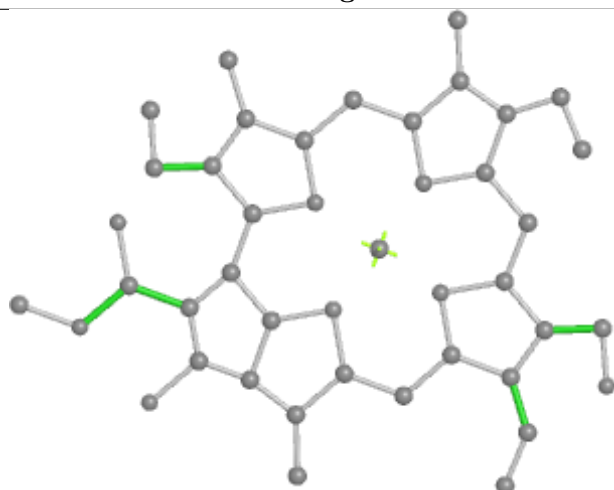
Ligand CHL 2 614



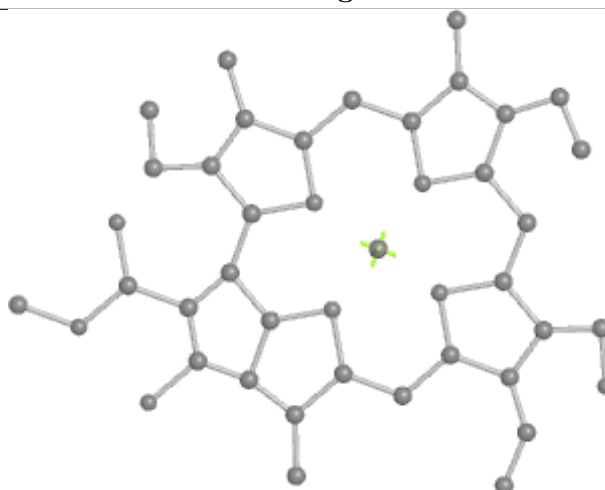
Bond lengths



Bond angles

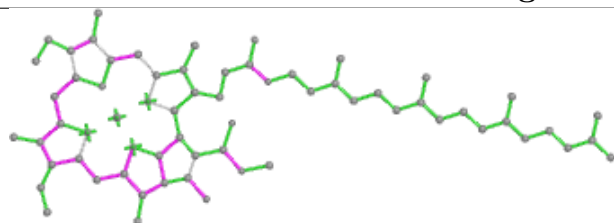


Torsions

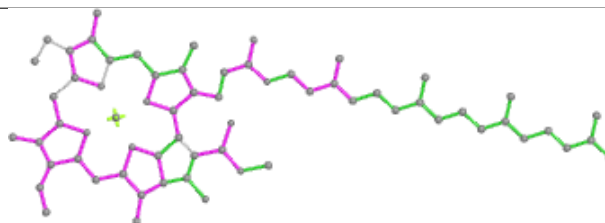


Rings

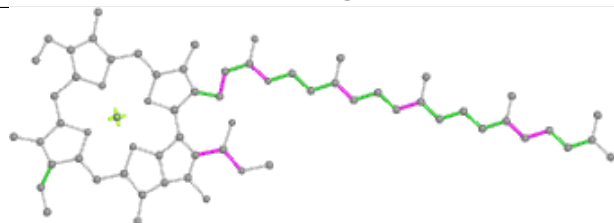
Ligand CLA 2 602



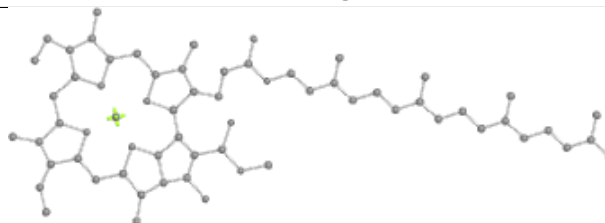
Bond lengths



Bond angles

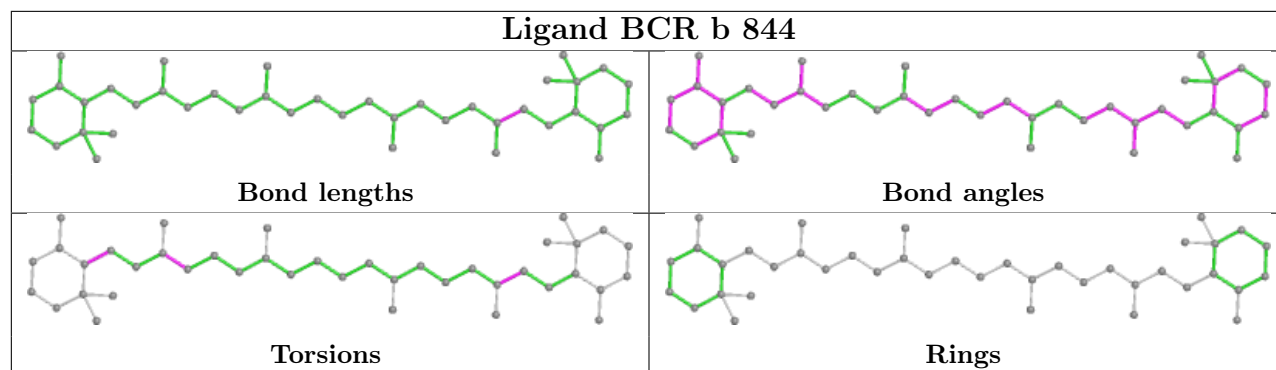


Torsions

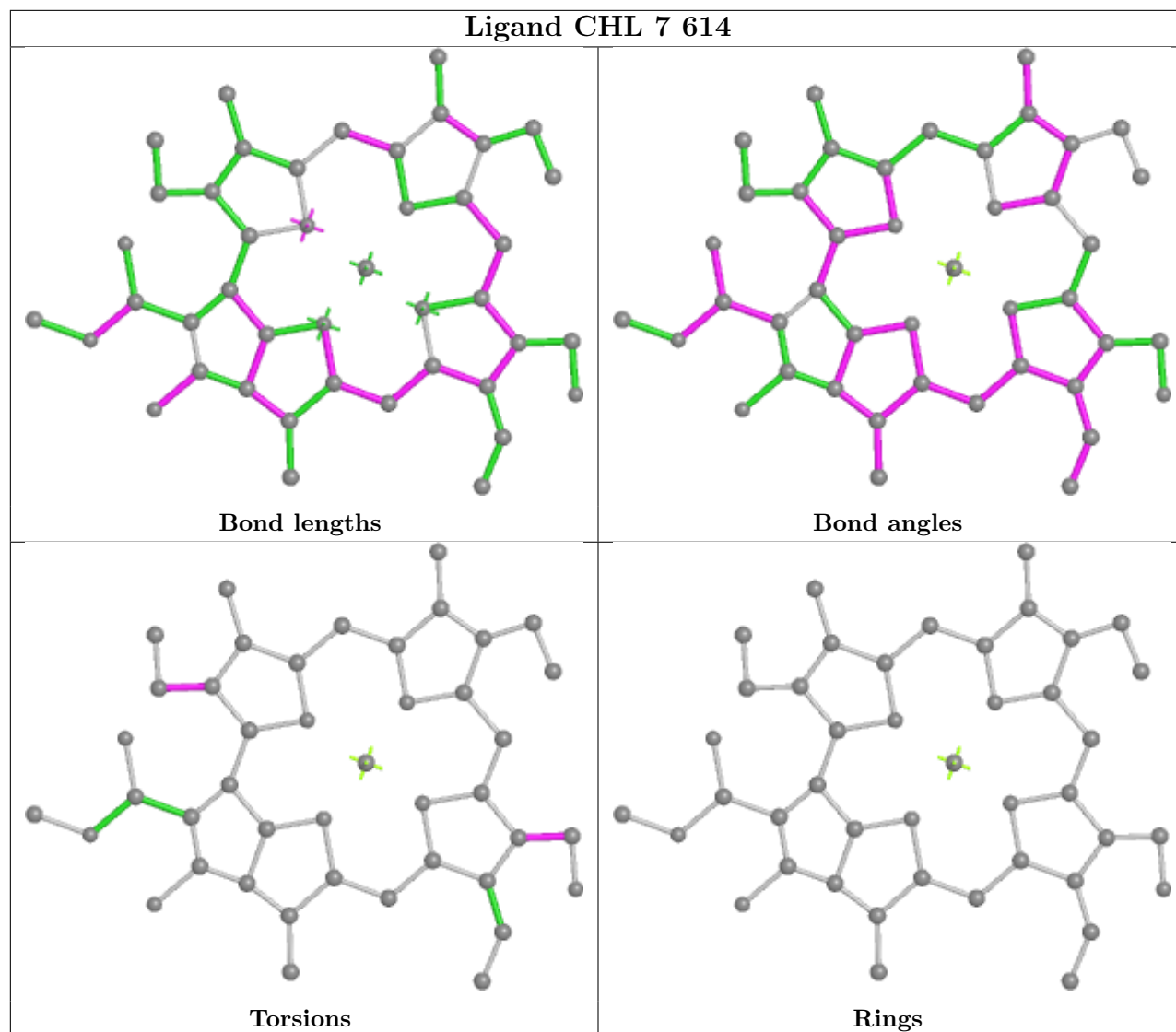


Rings

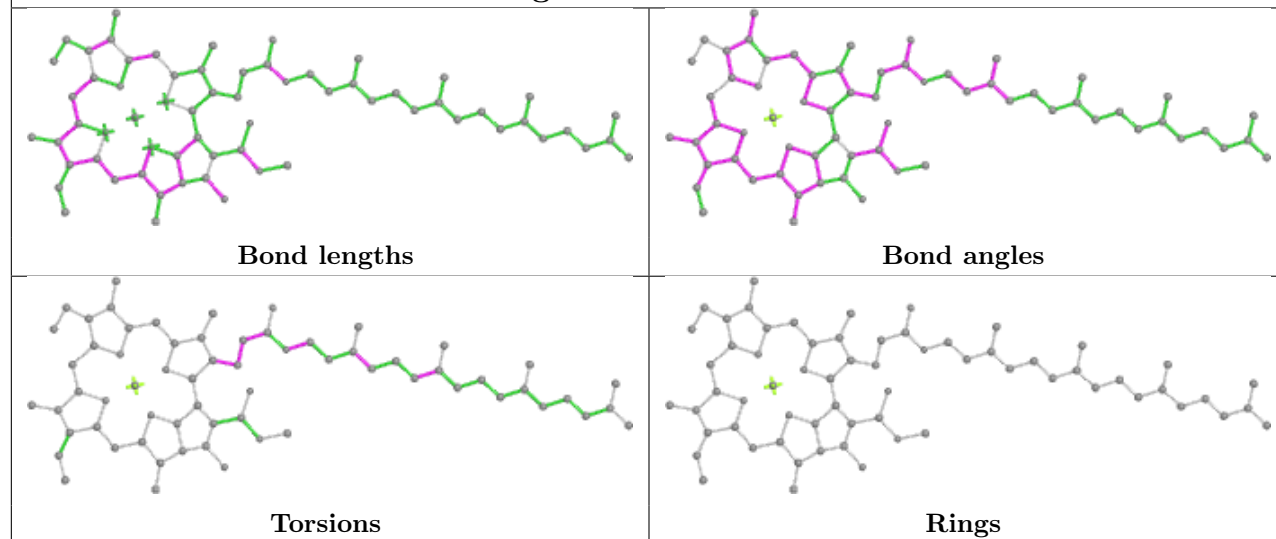
Ligand BCR b 844



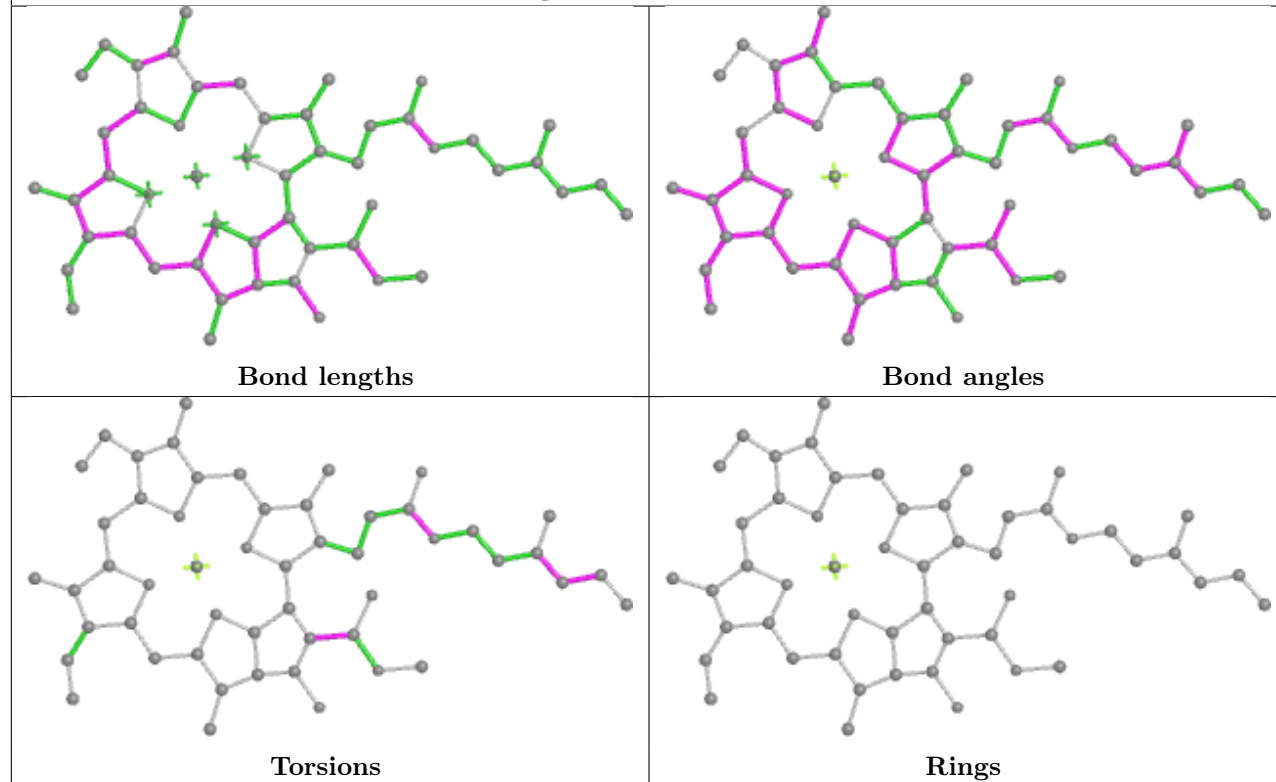
Ligand CHL 7 614



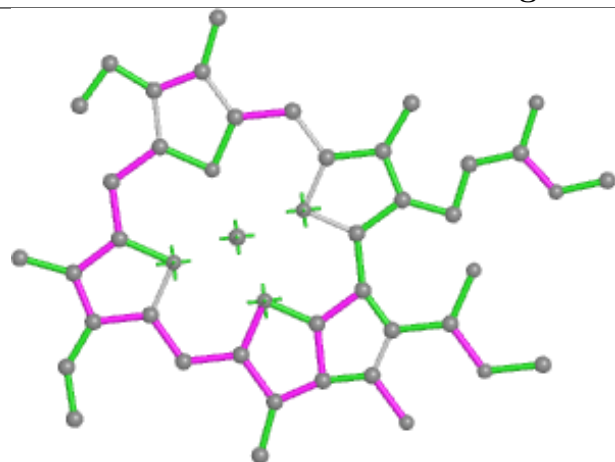
Ligand CLA B 827



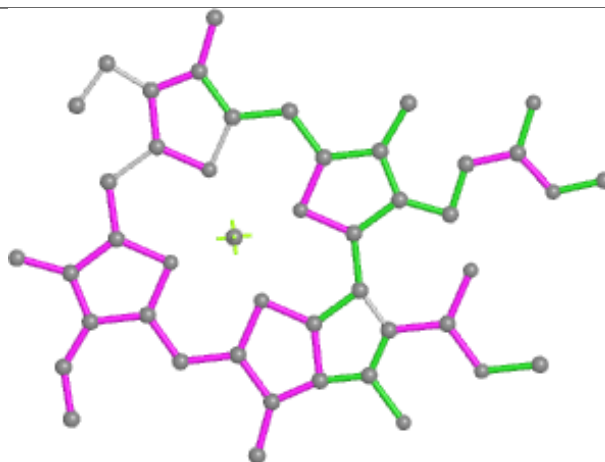
Ligand CLA 3 311



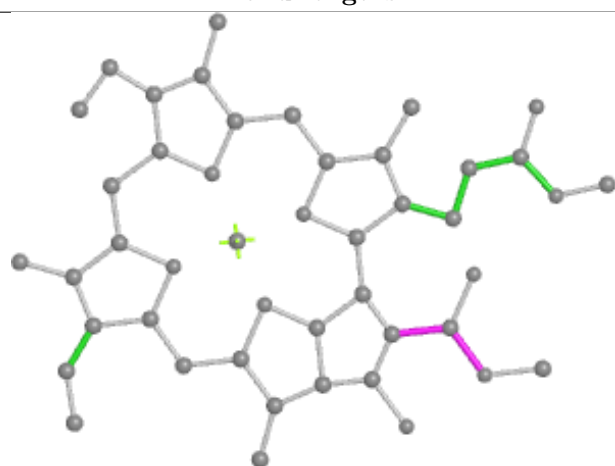
Ligand CLA b 821



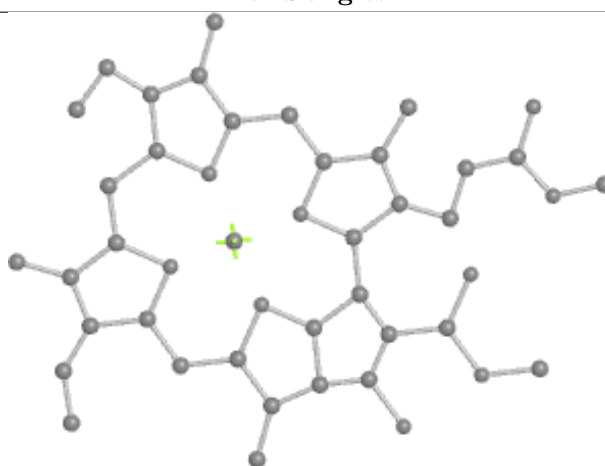
Bond lengths



Bond angles

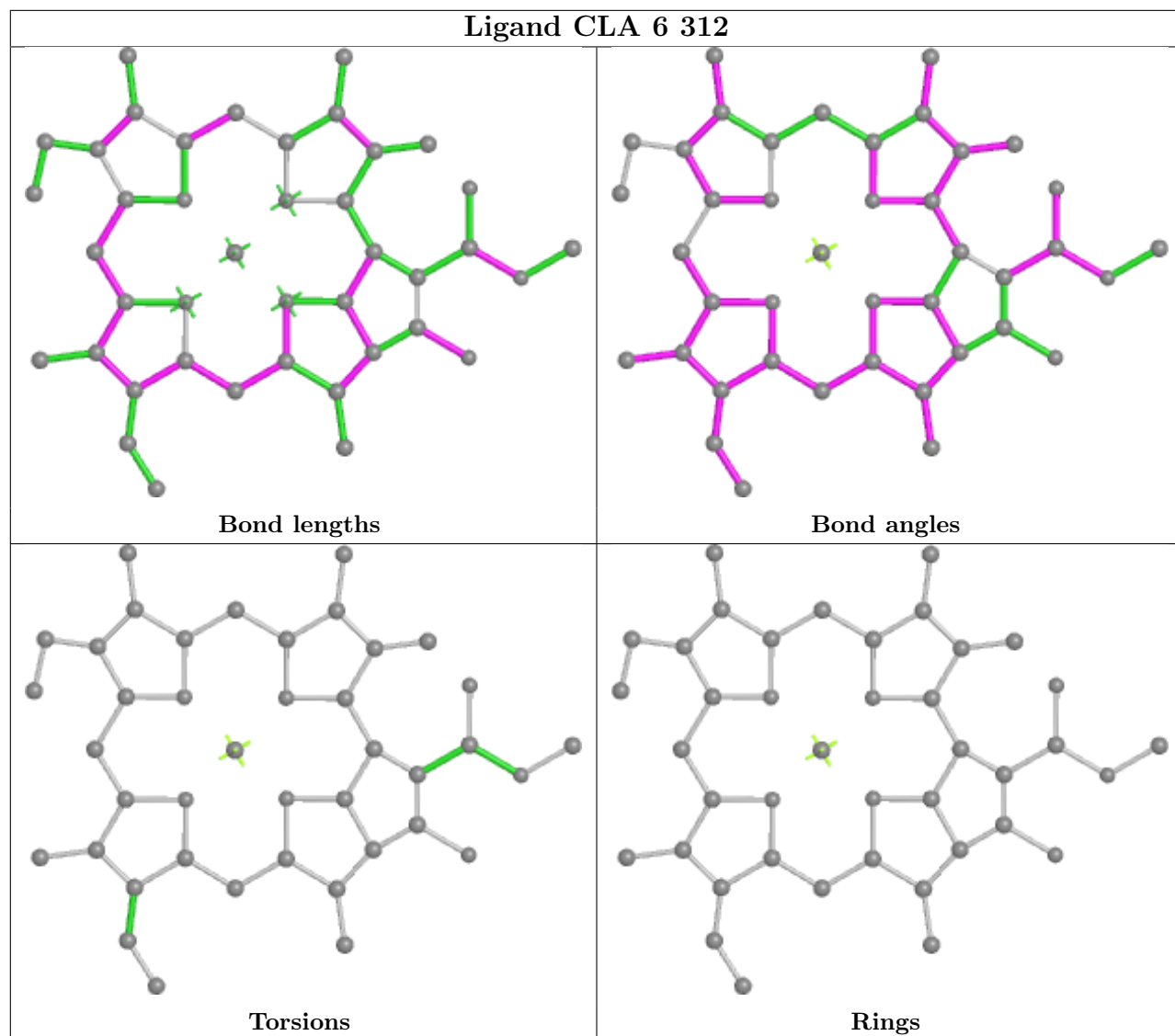


Torsions

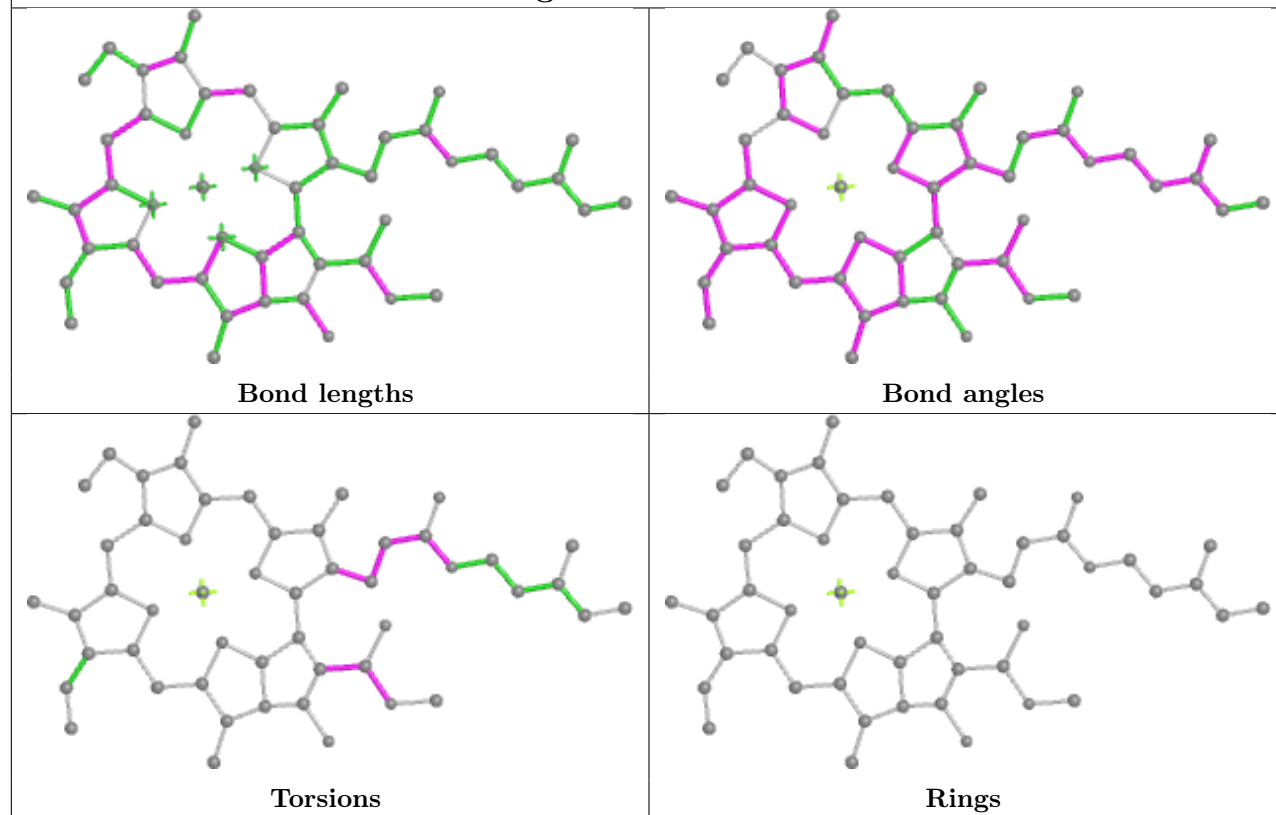


Rings

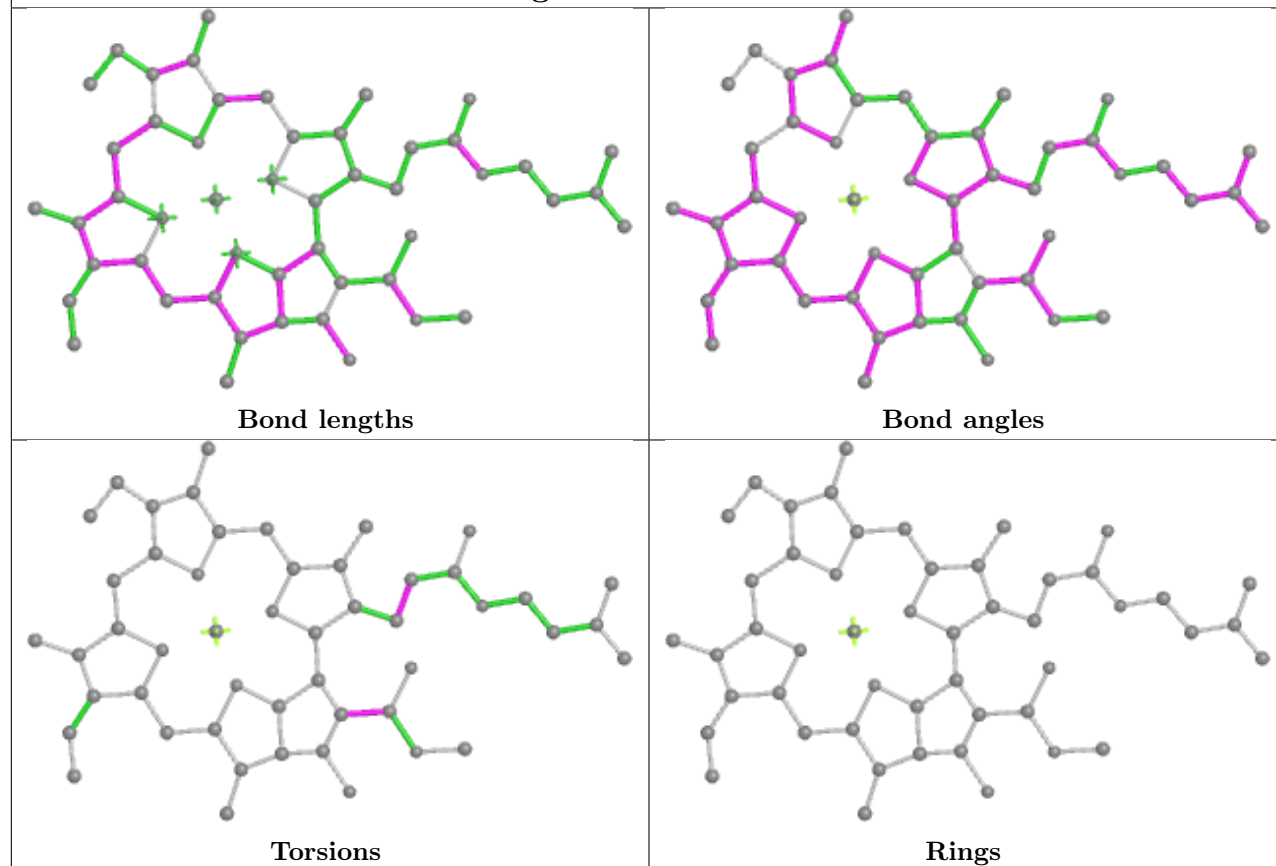
Ligand CLA 6 312



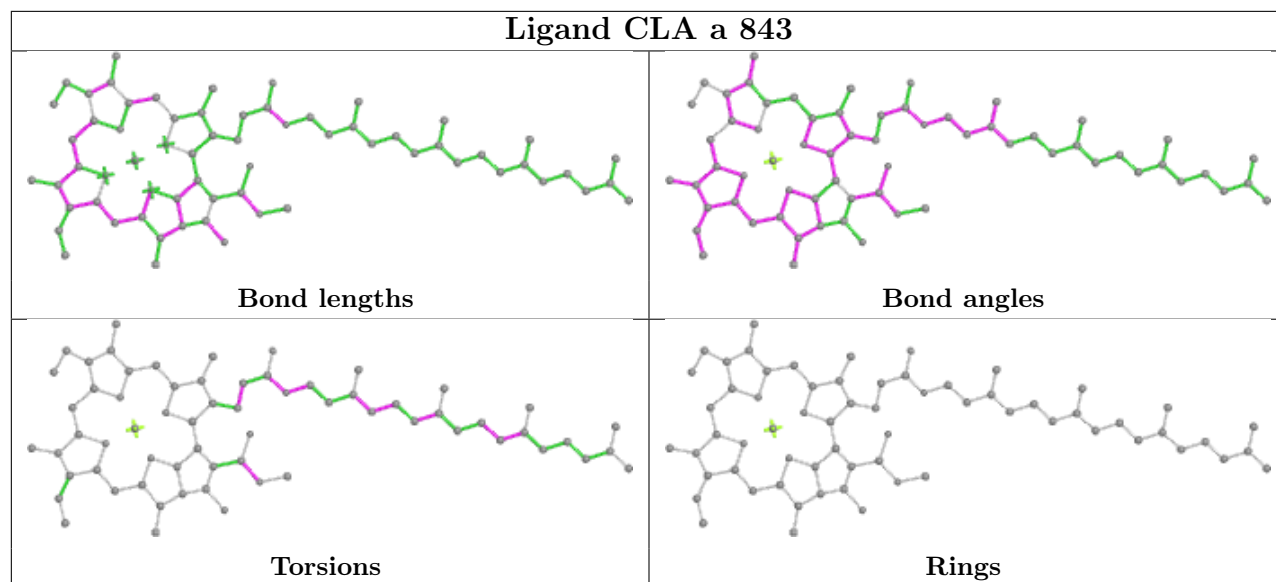
Ligand CLA a 838



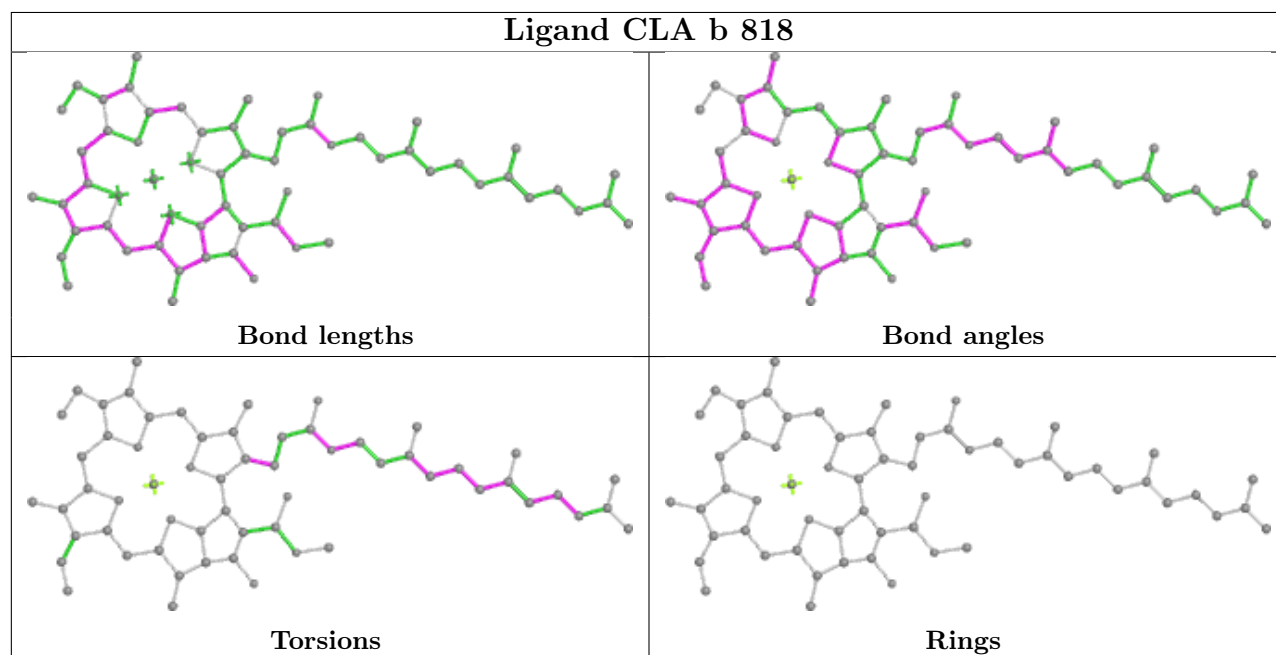
Ligand CLA A 832



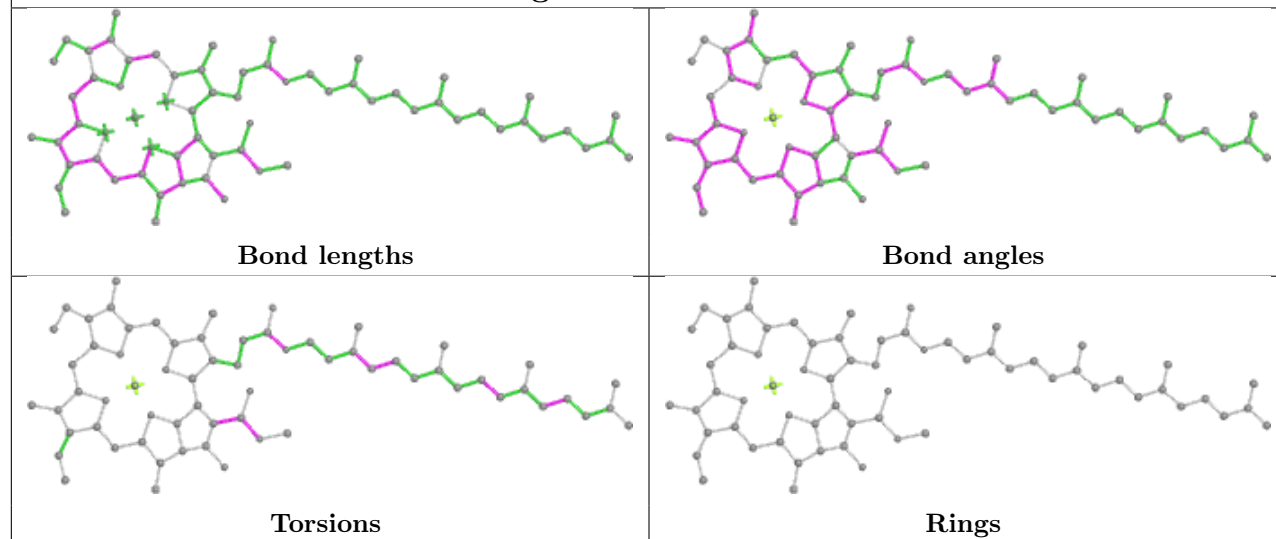
Ligand CLA a 843



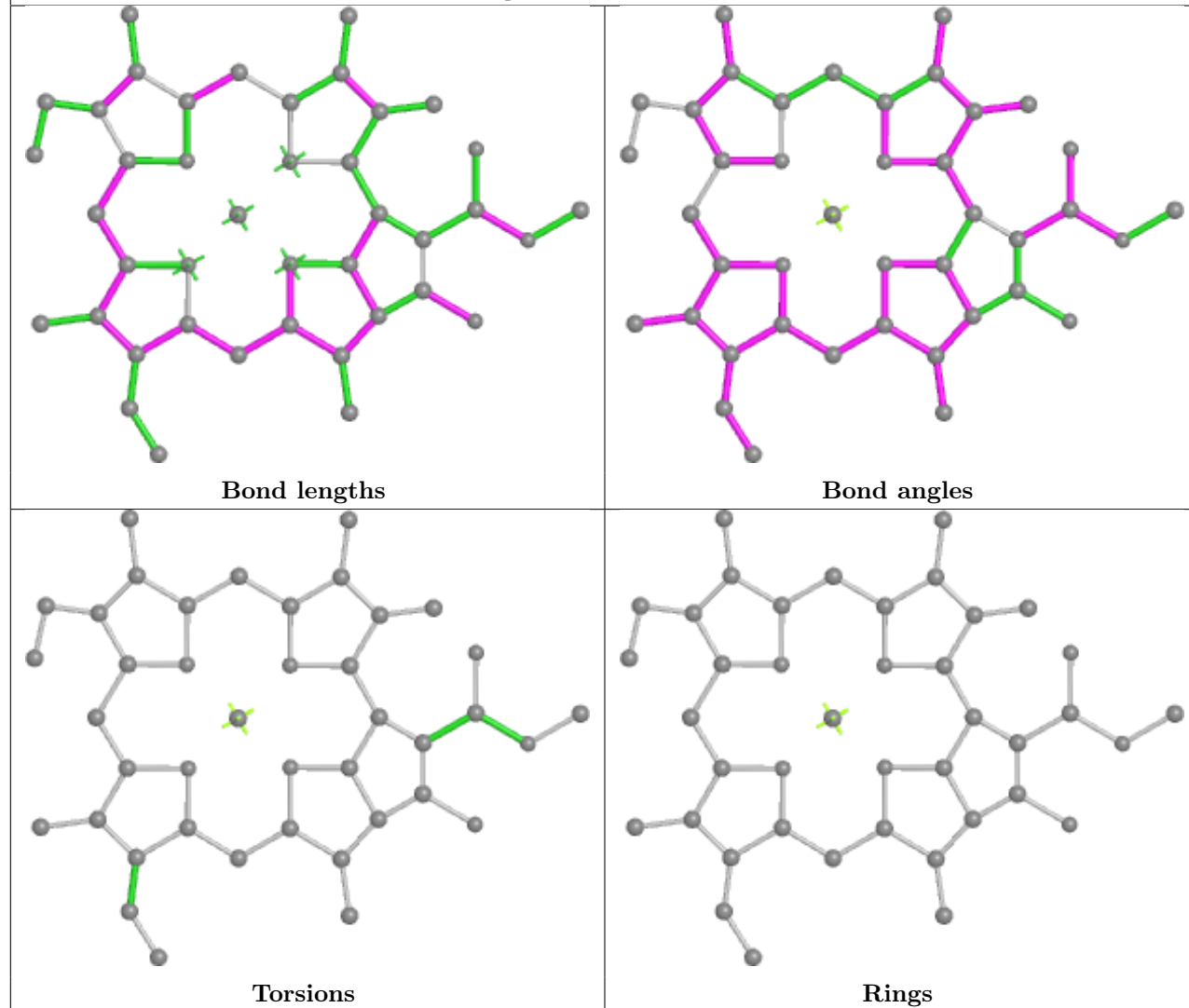
Ligand CLA b 818



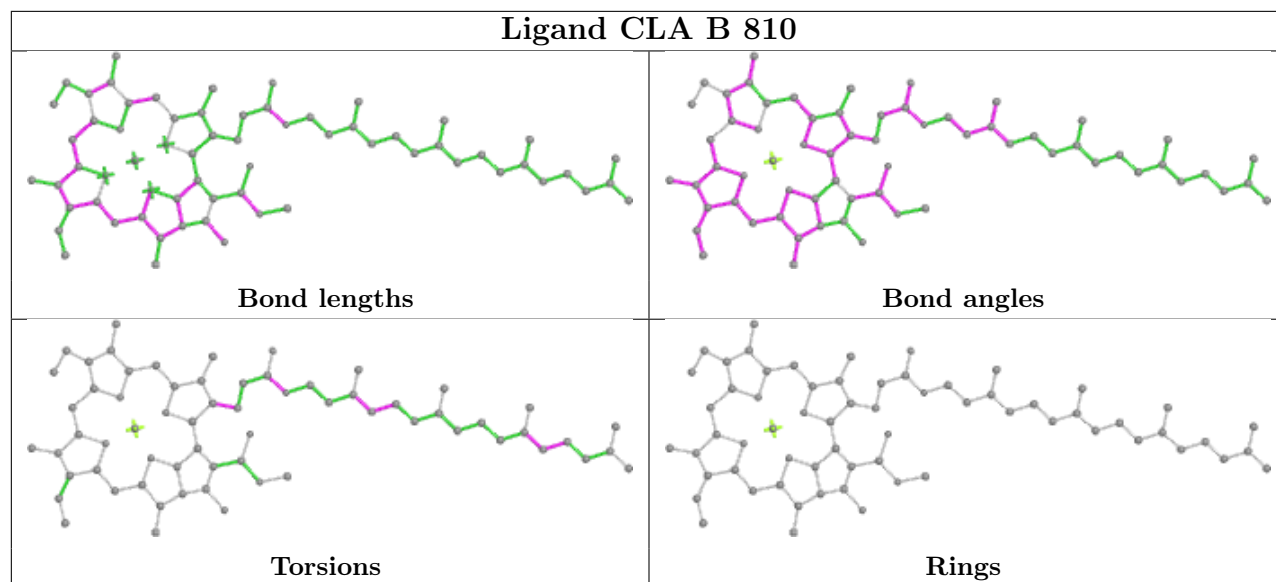
Ligand CLA A 818



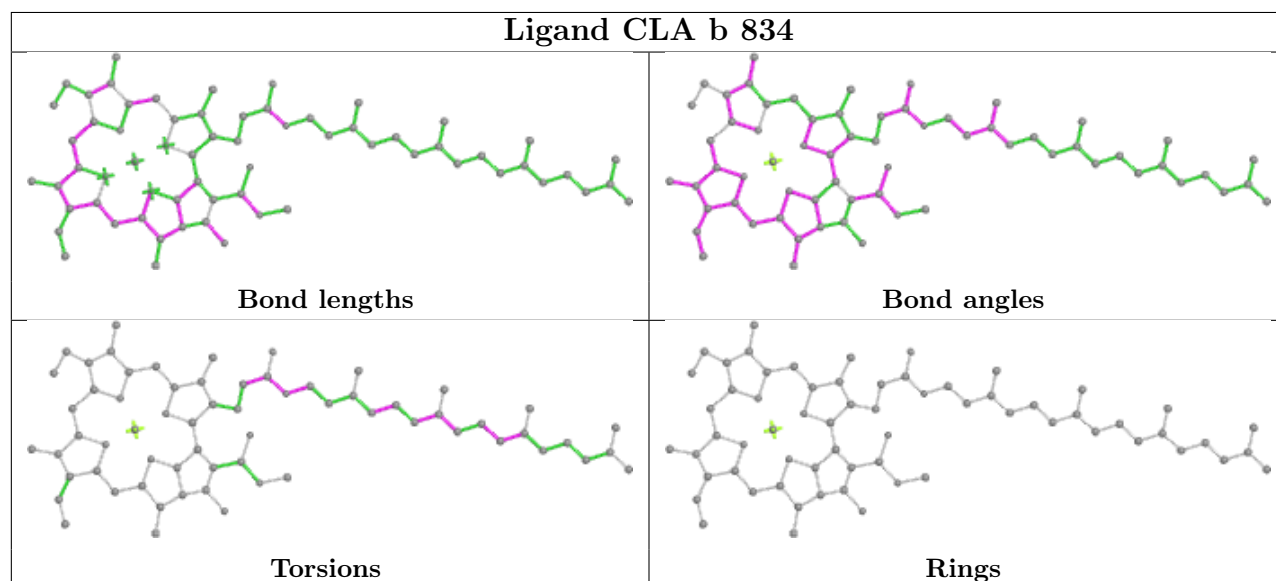
Ligand CLA 2 610



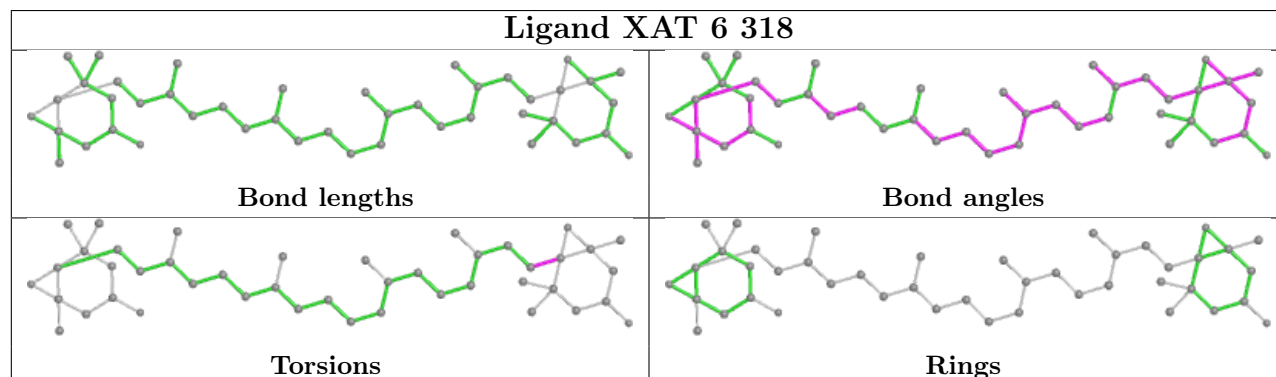
Ligand CLA B 810



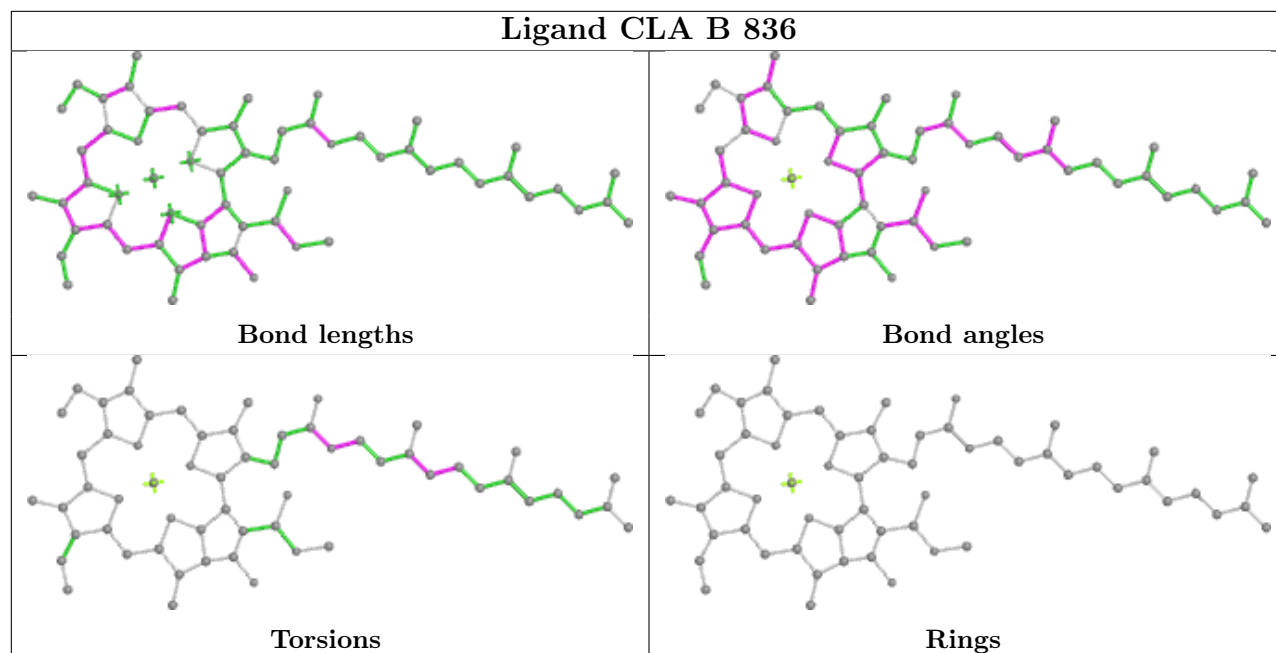
Ligand CLA b 834



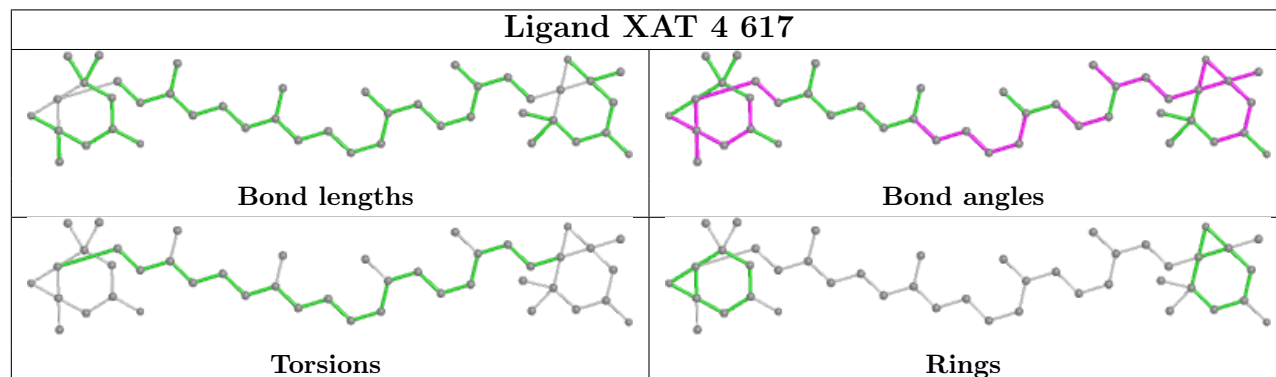
Ligand XAT 6 318



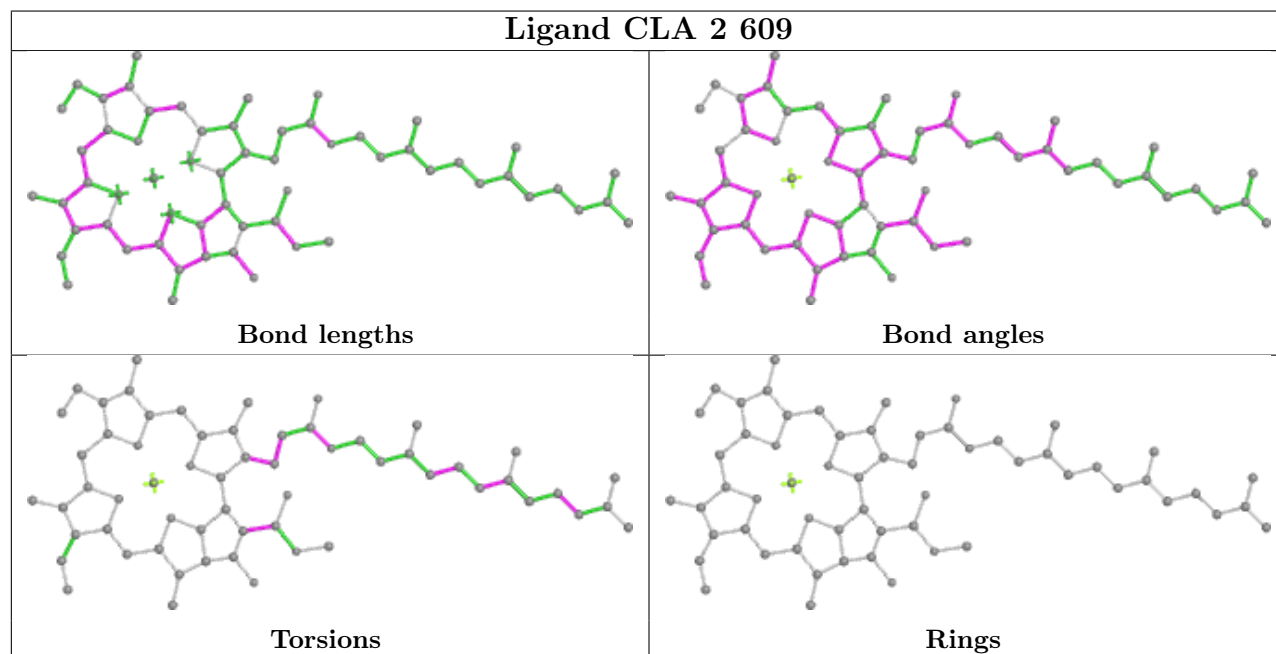
Ligand CLA B 836



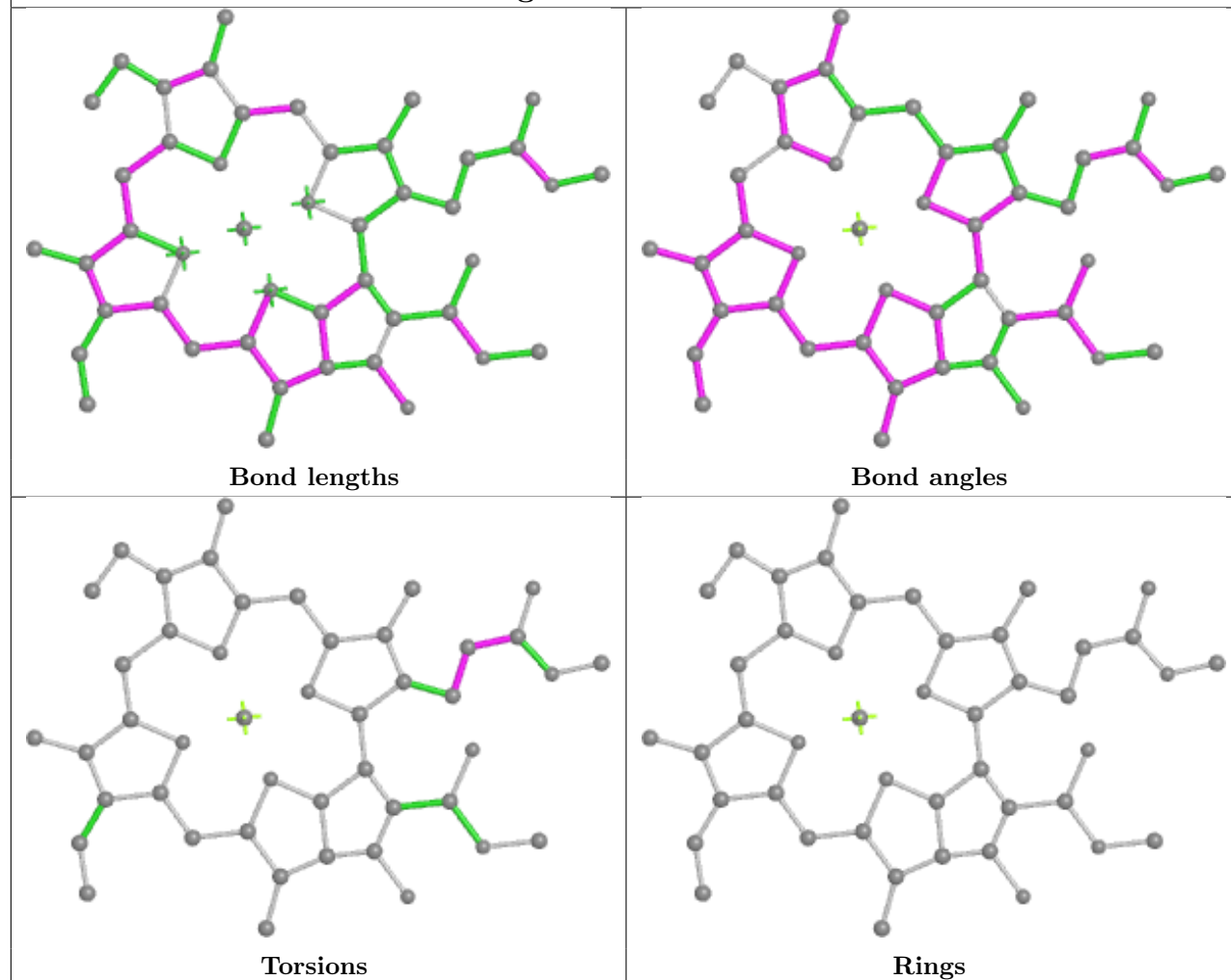
Ligand XAT 4 617



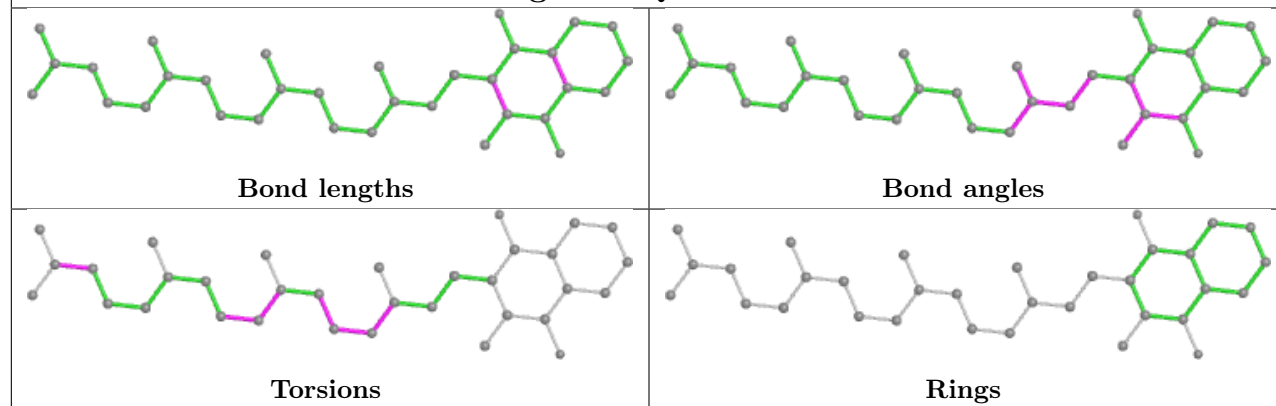
Ligand CLA 2 609

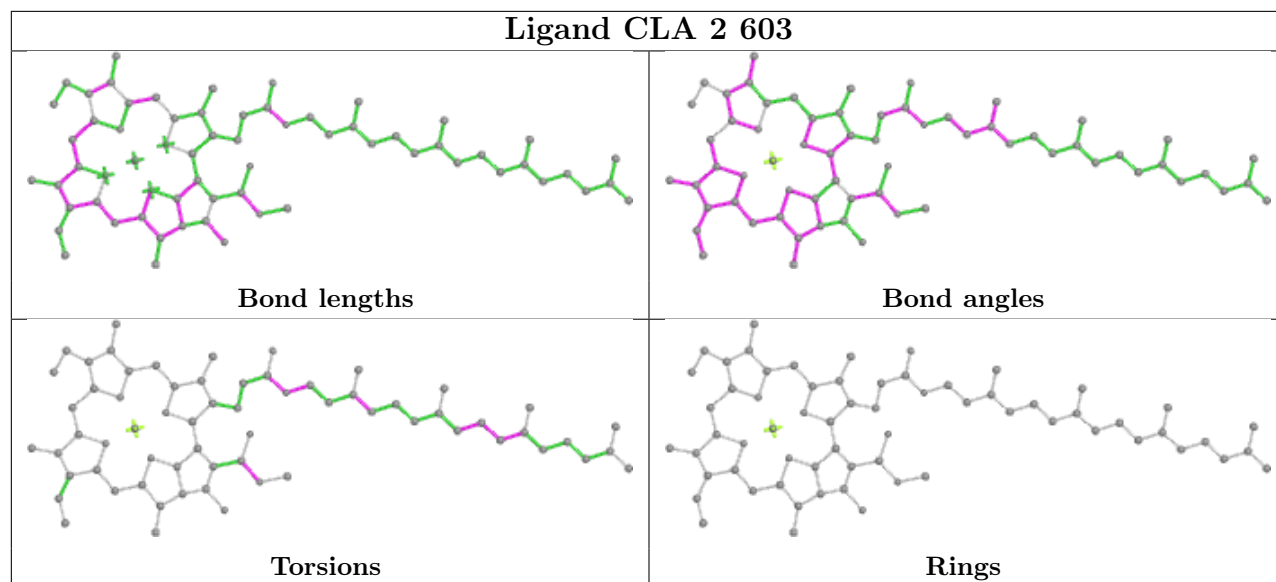
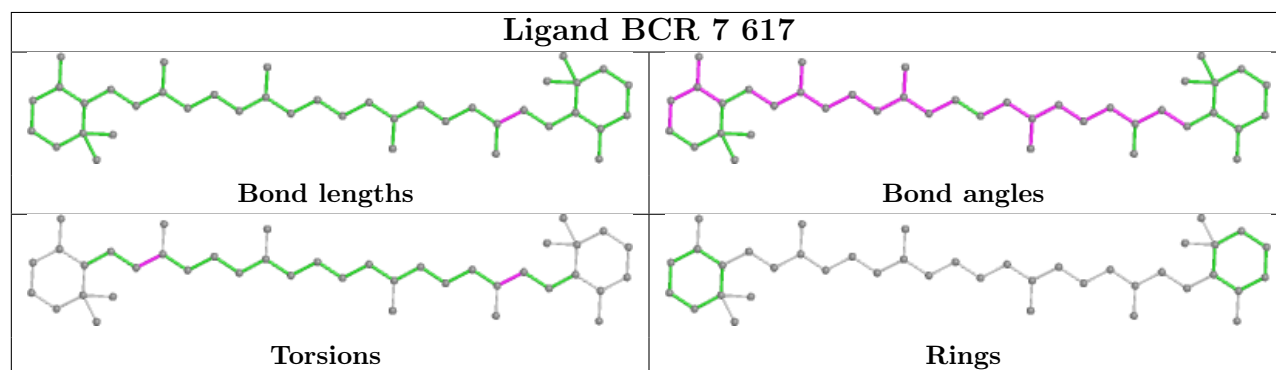


Ligand CLA 6 316

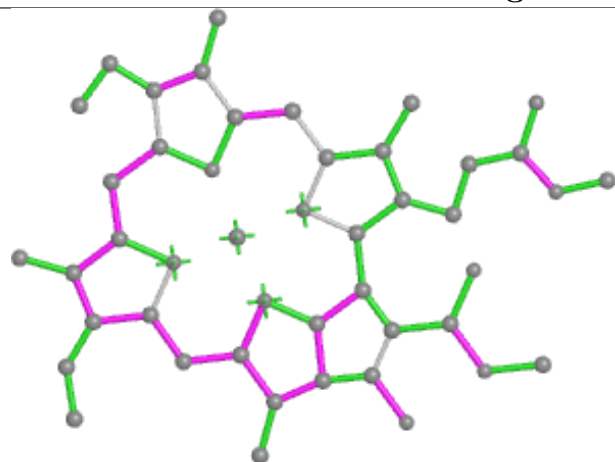


Ligand PQN A 844

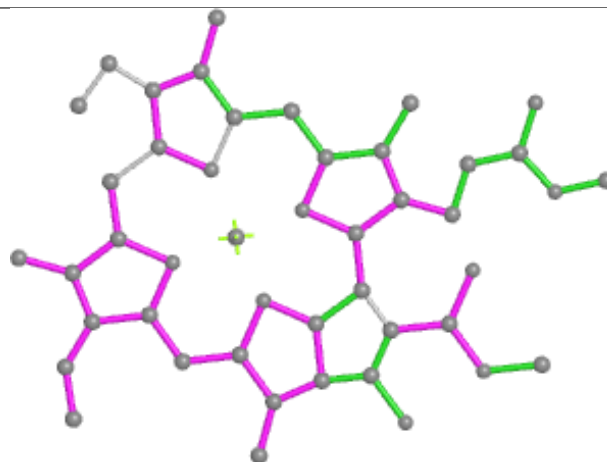


Ligand CLA 2 603**Ligand BCR 7 617**

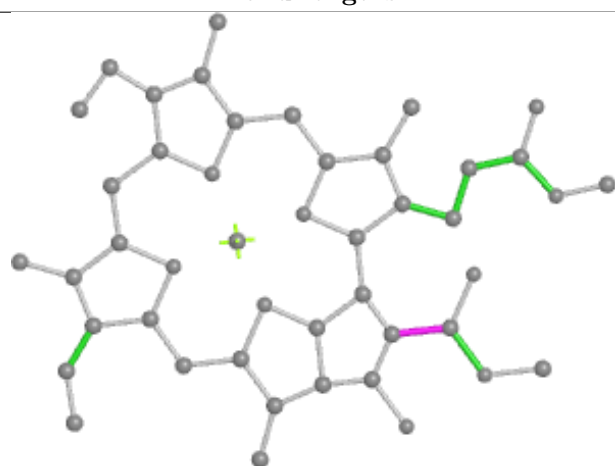
Ligand CLA K 4003



Bond lengths



Bond angles

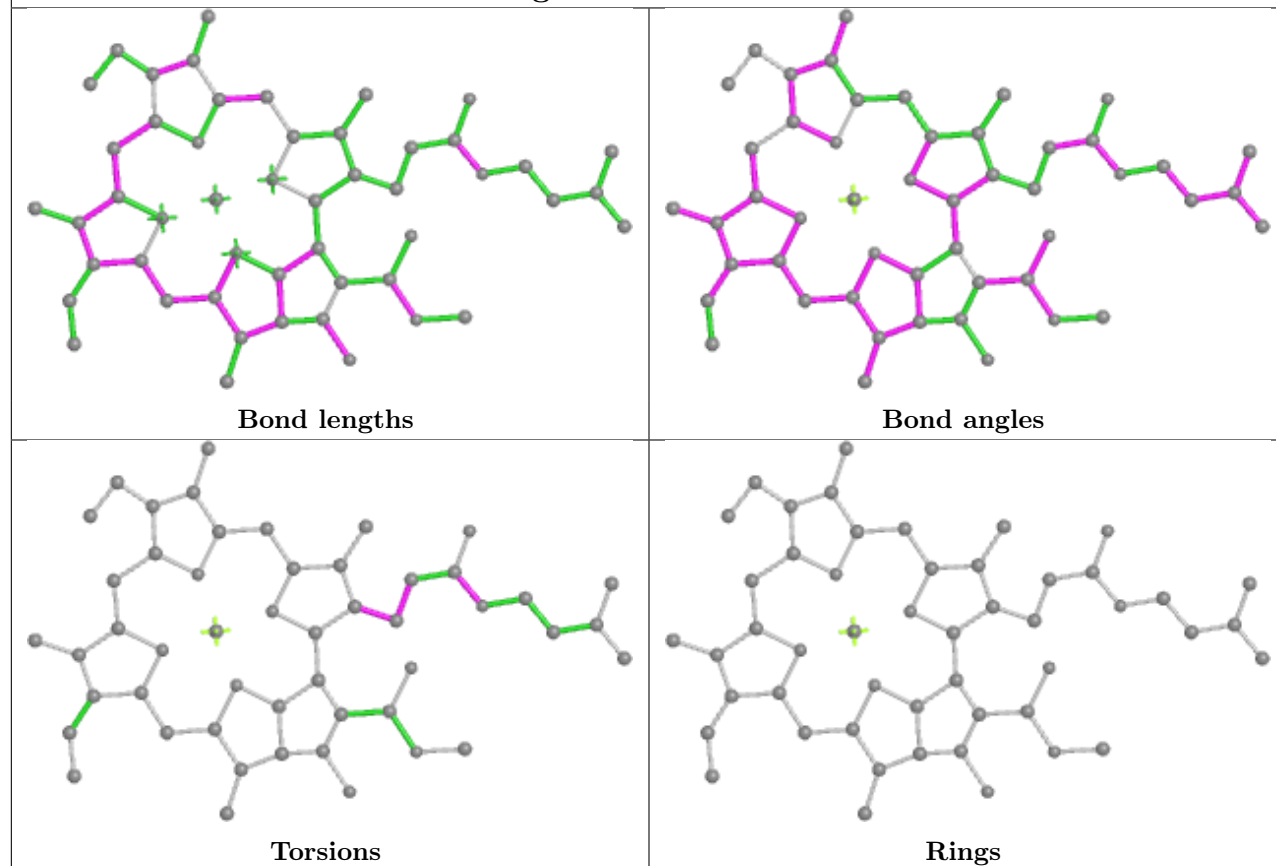


Torsions

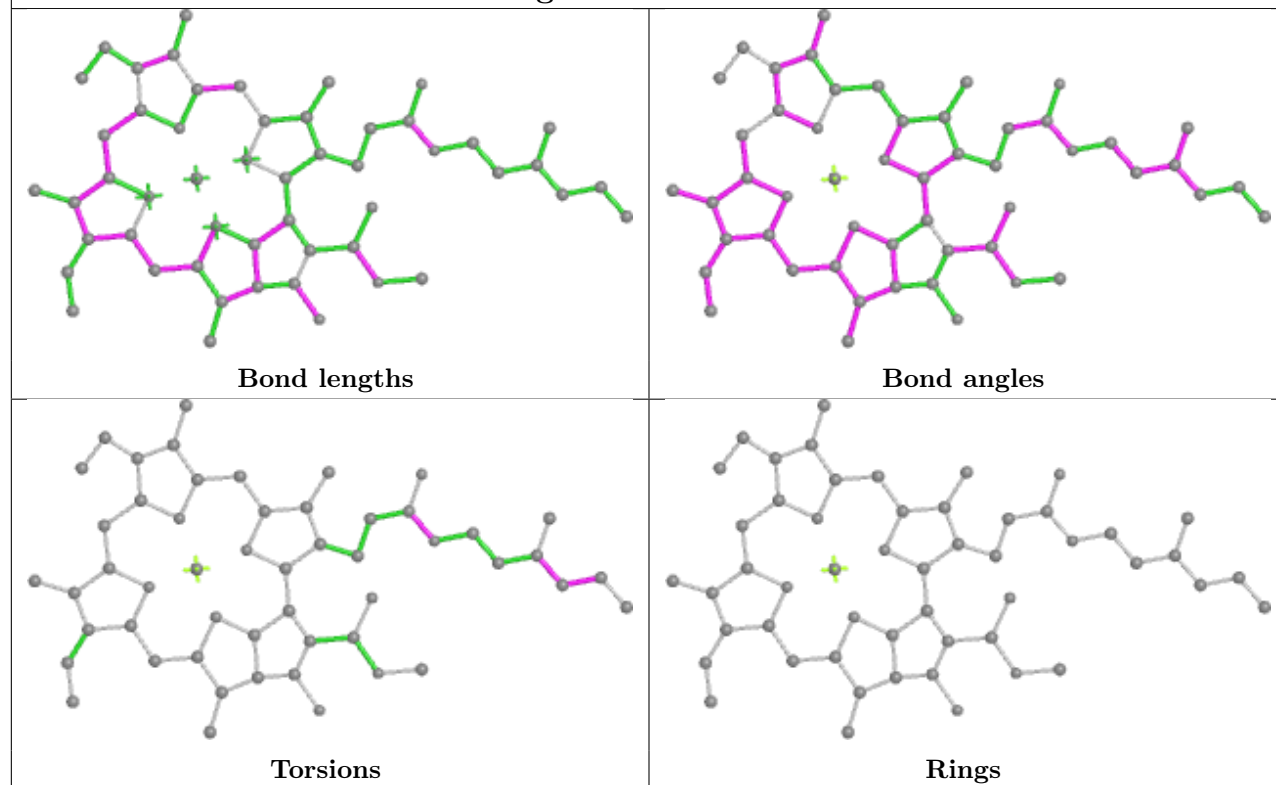


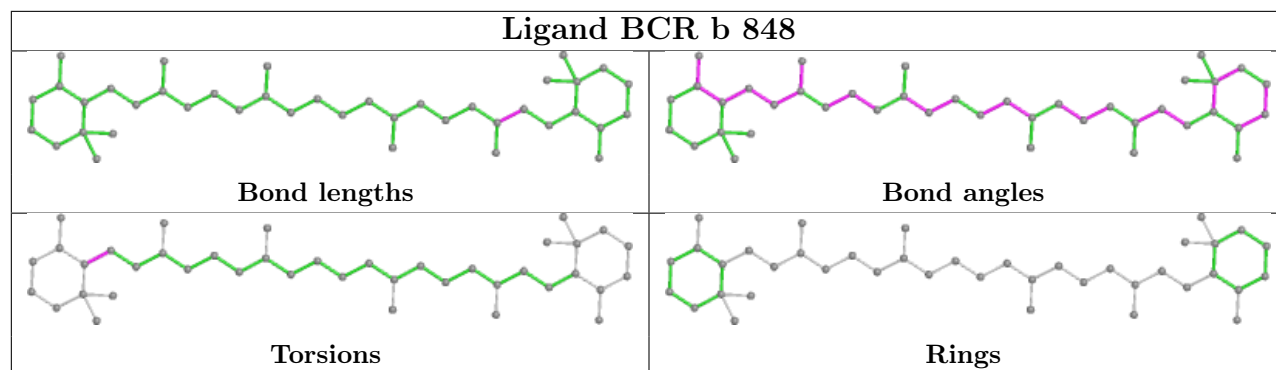
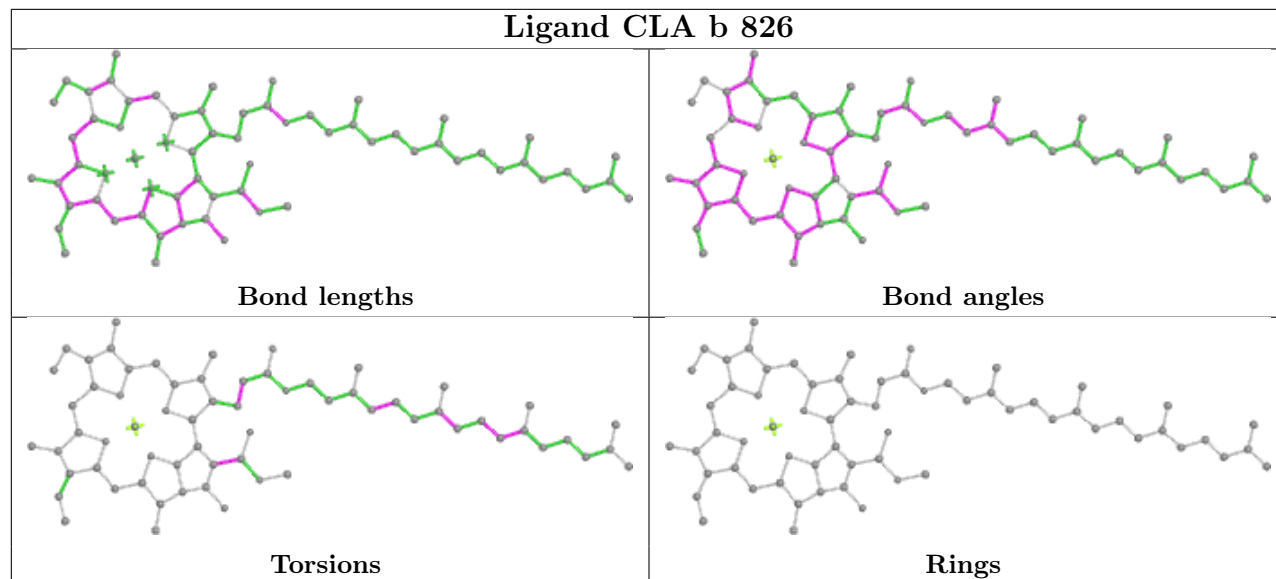
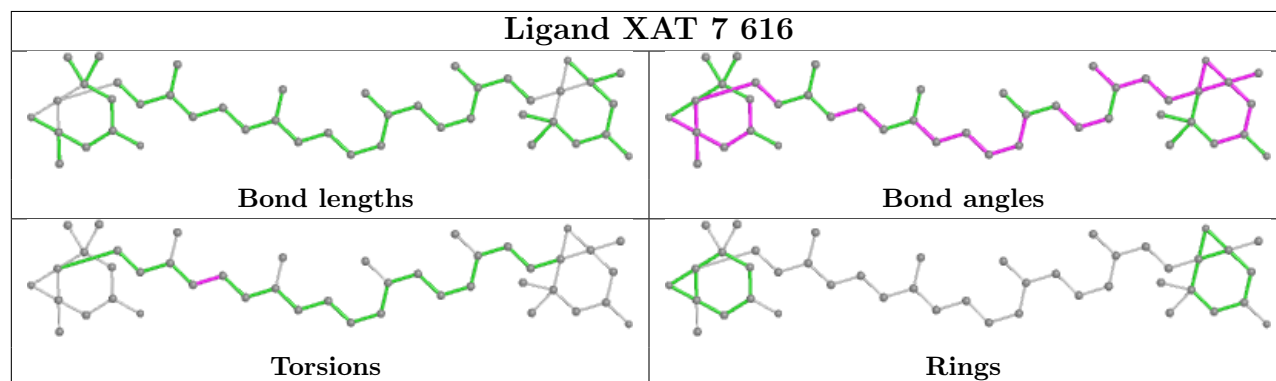
Rings

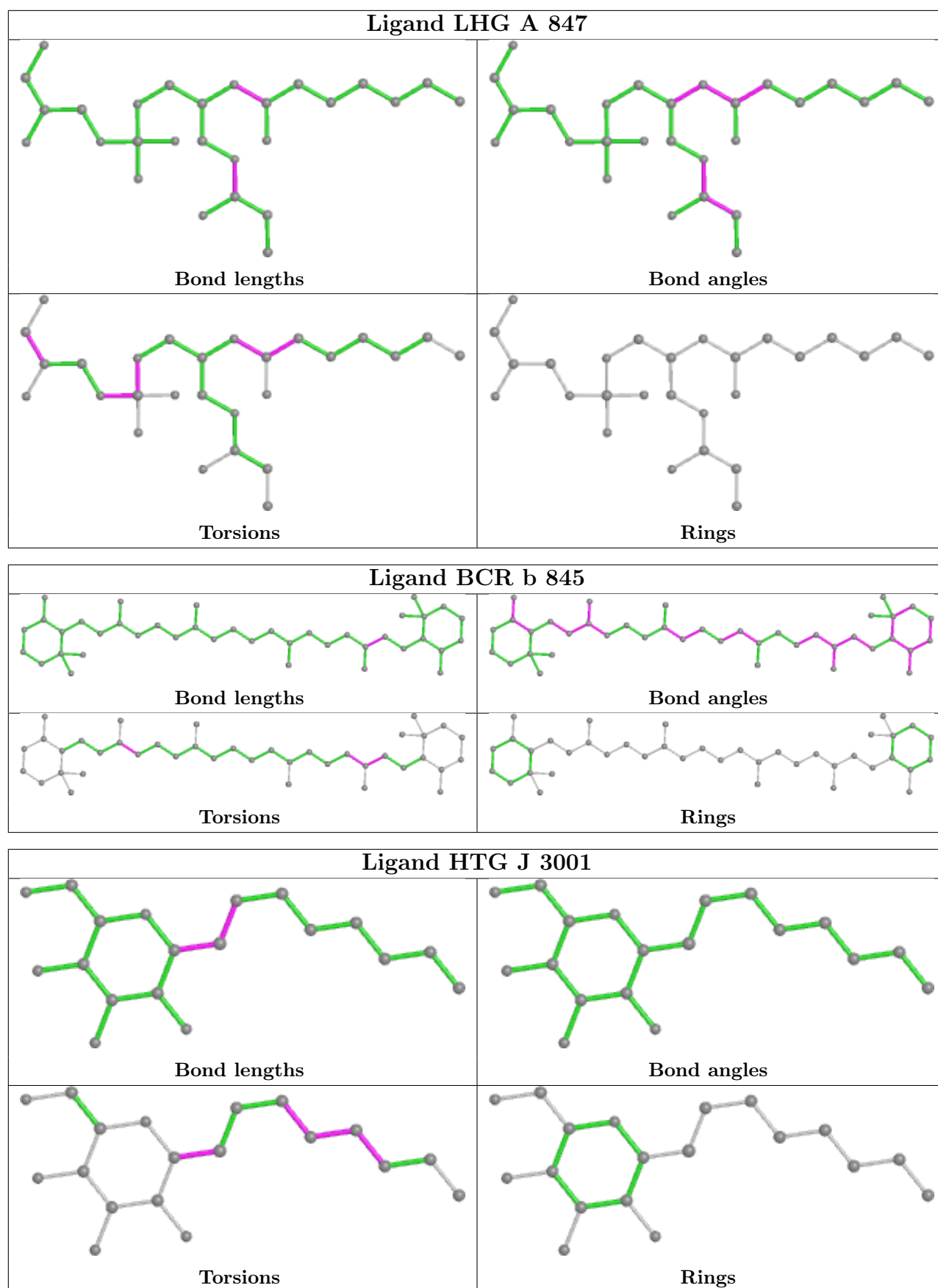
Ligand CLA B 830



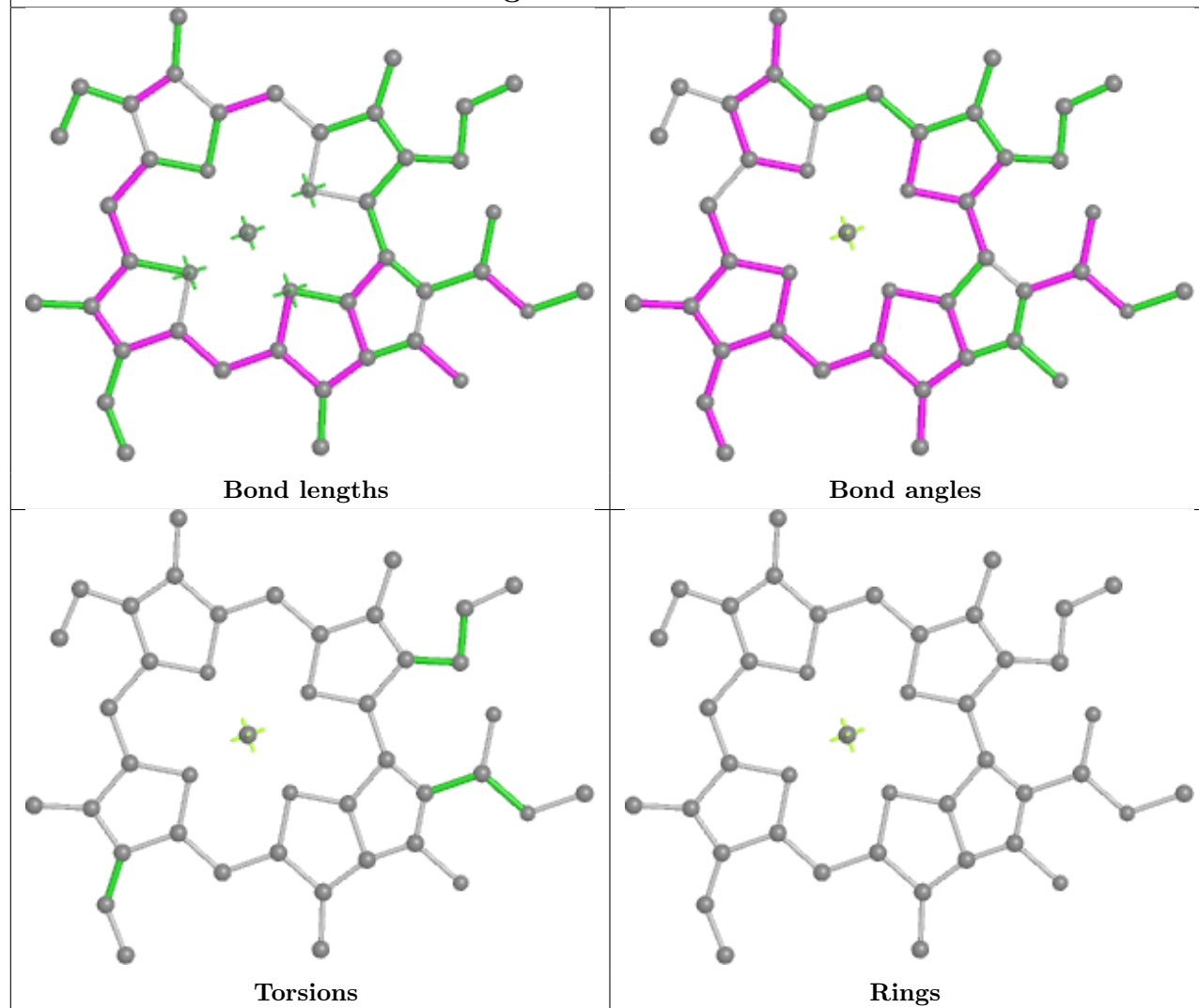
Ligand CLA 7 611



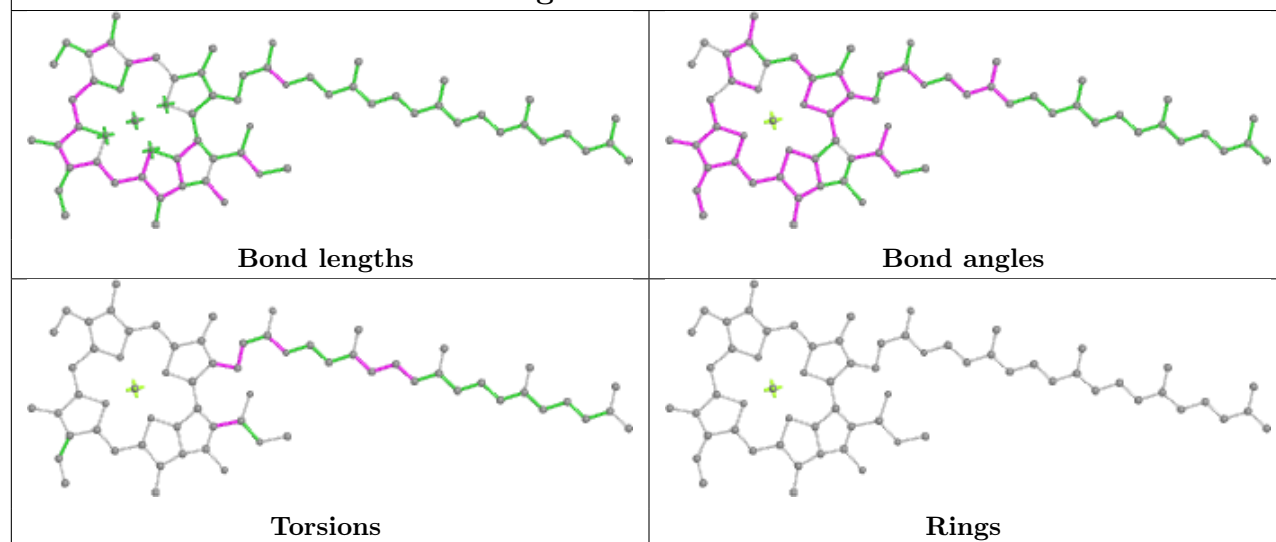
Ligand BCR b 848**Ligand CLA b 826****Ligand XAT 7 616**



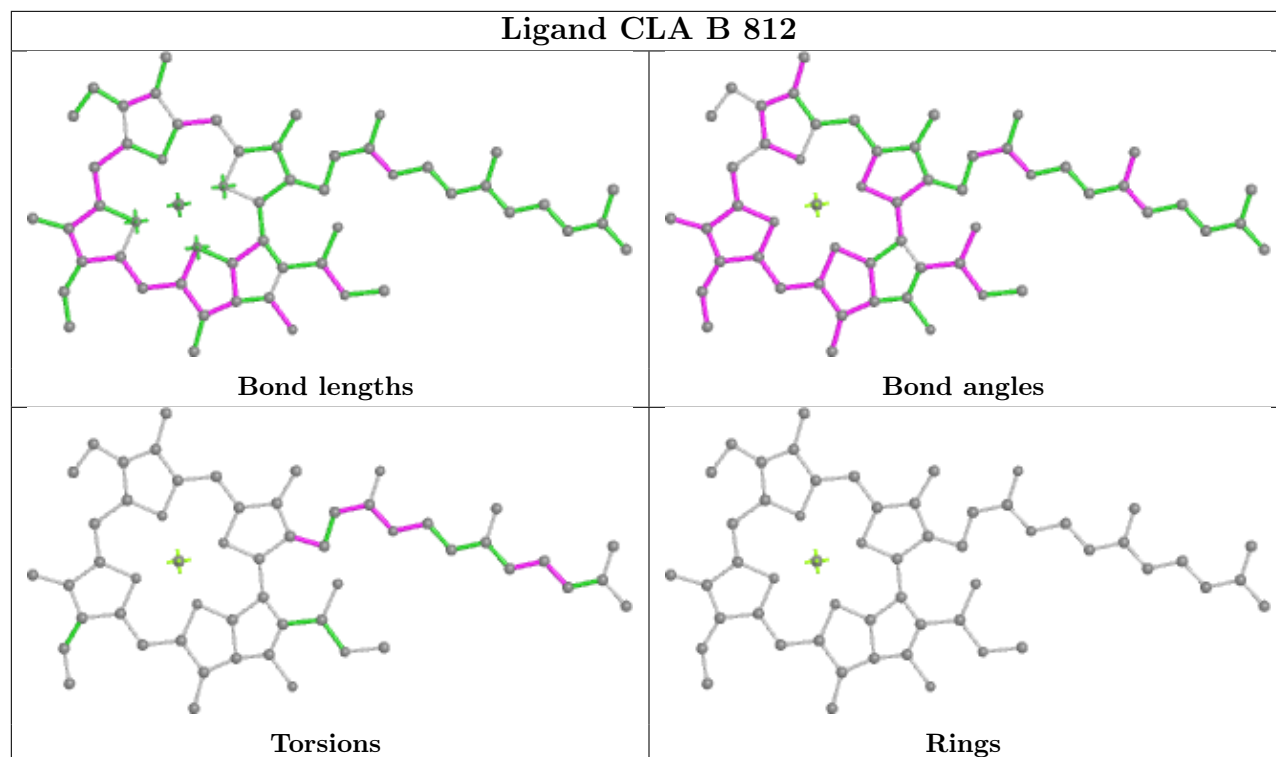
Ligand CLA 7 613



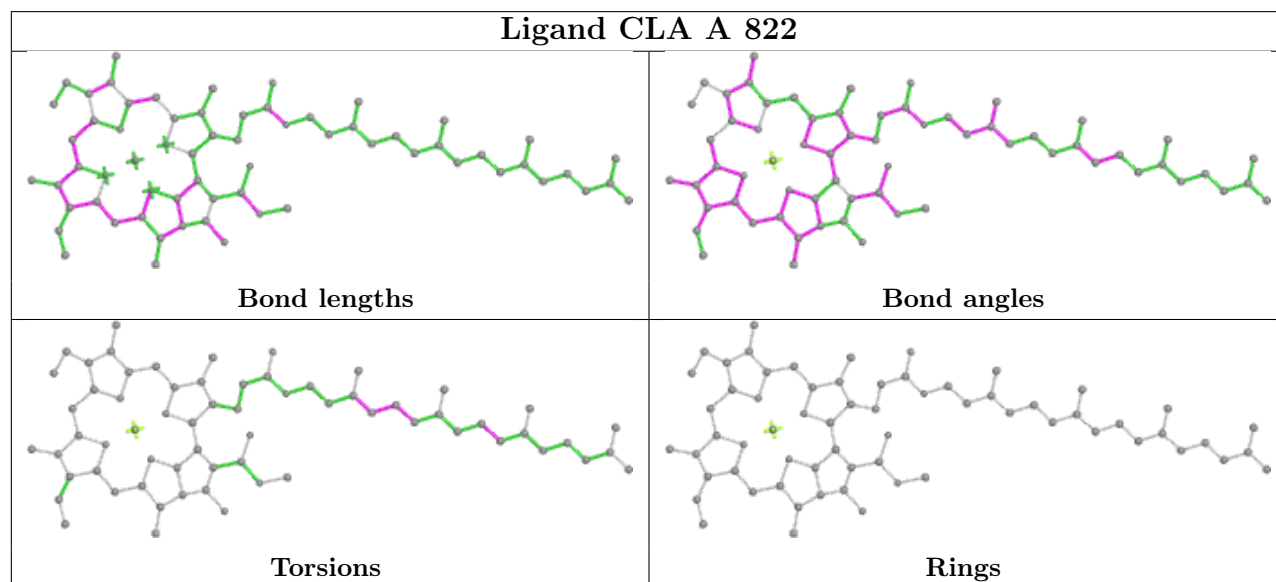
Ligand CLA a 834



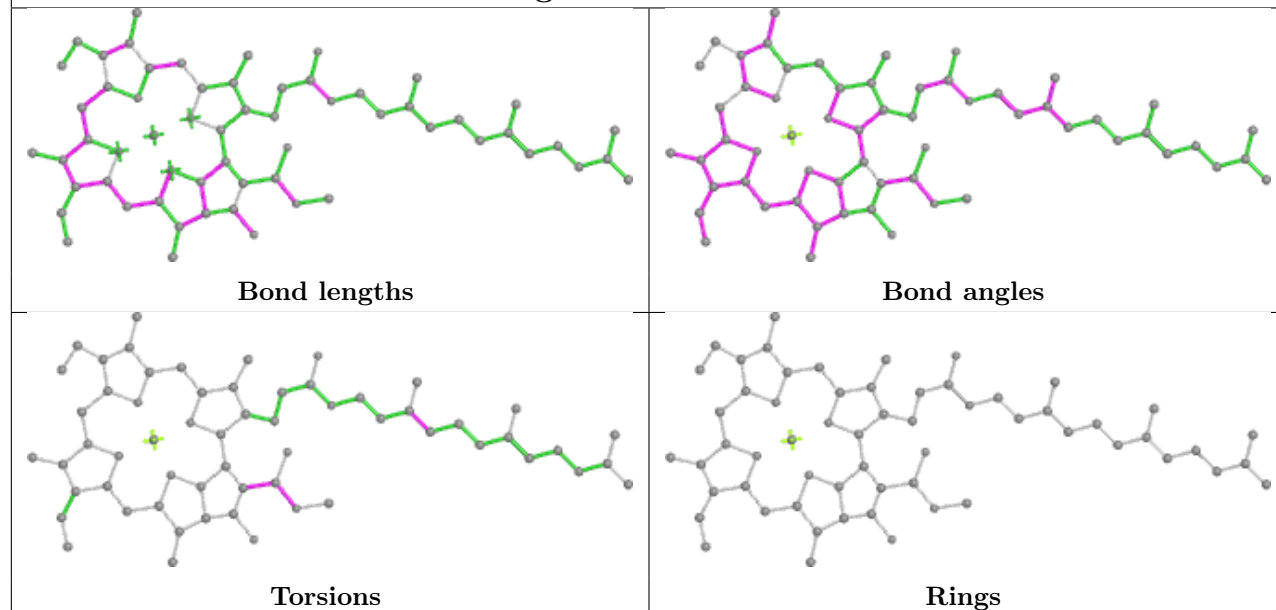
Ligand CLA B 812



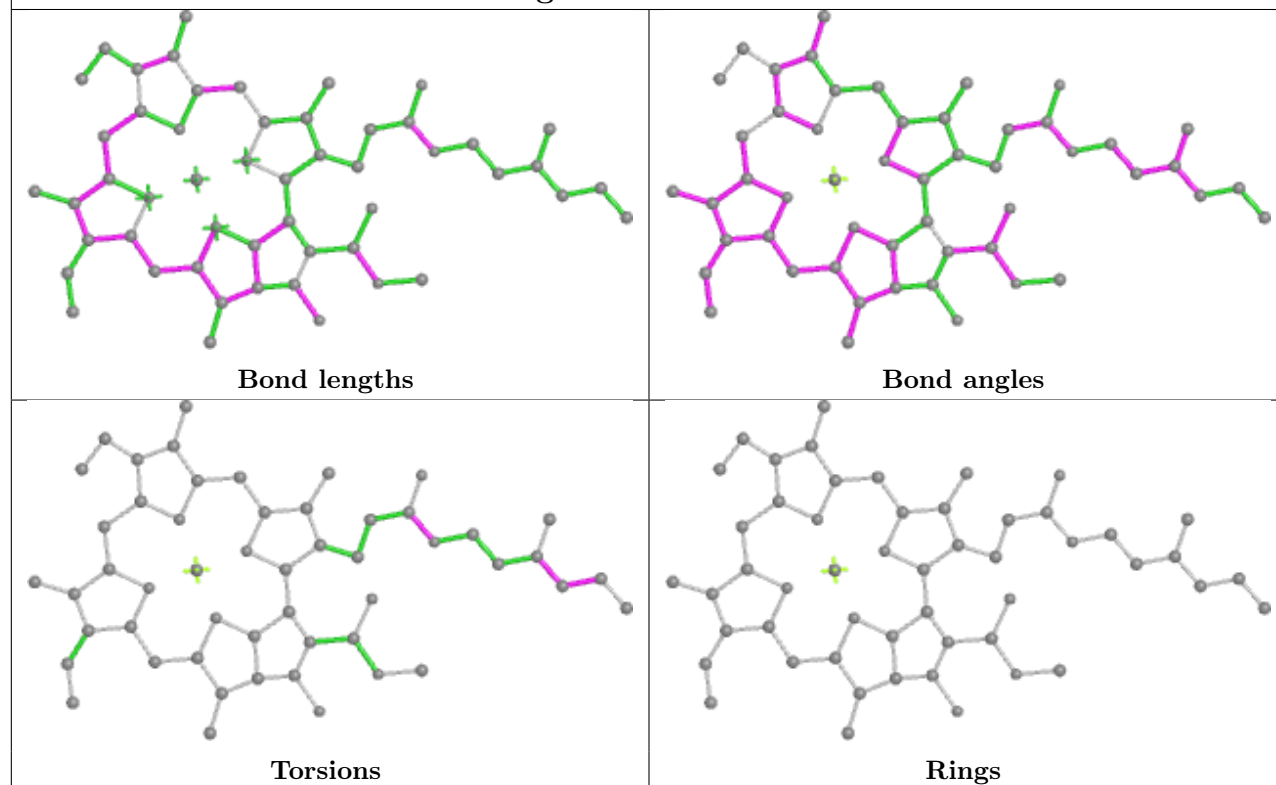
Ligand CLA A 822



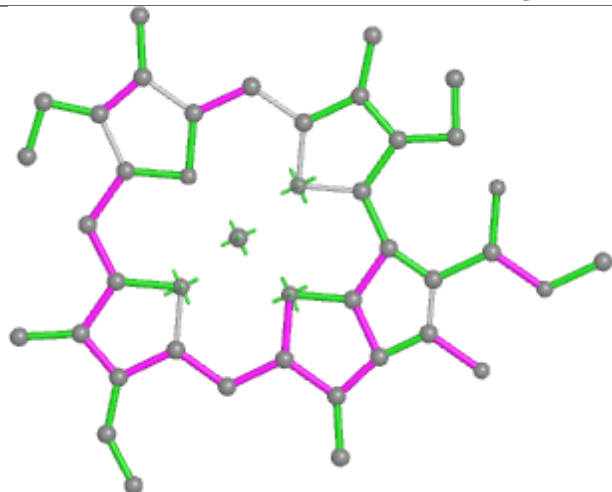
Ligand CLA b 823



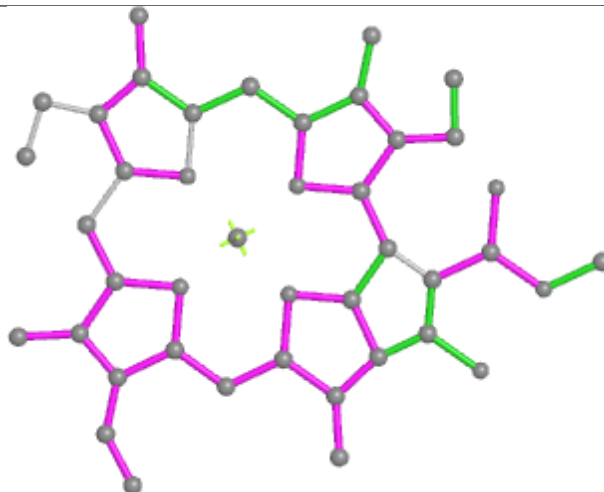
Ligand CLA 8 309



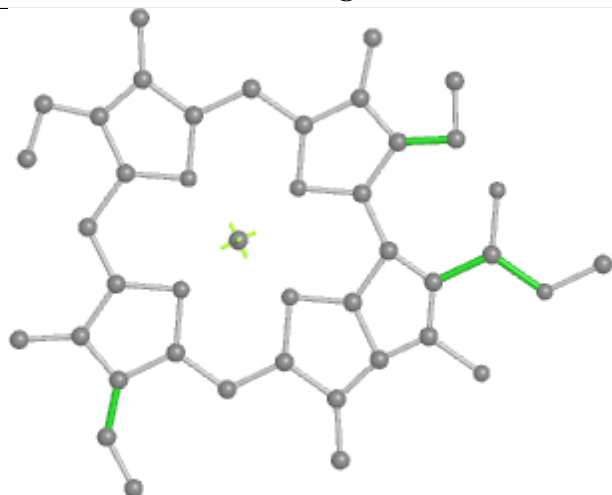
Ligand CLA 8 304



Bond lengths



Bond angles

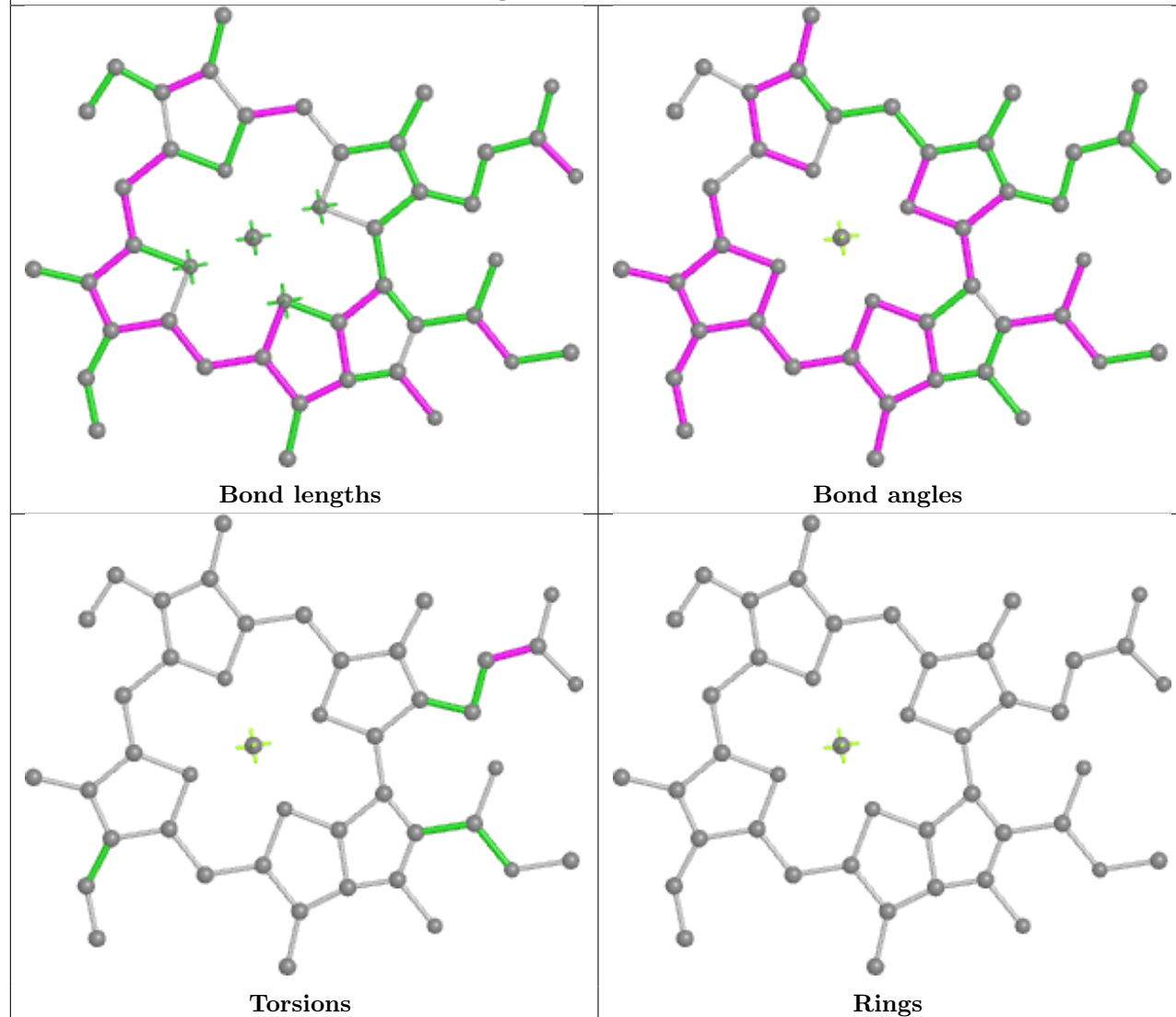


Torsions

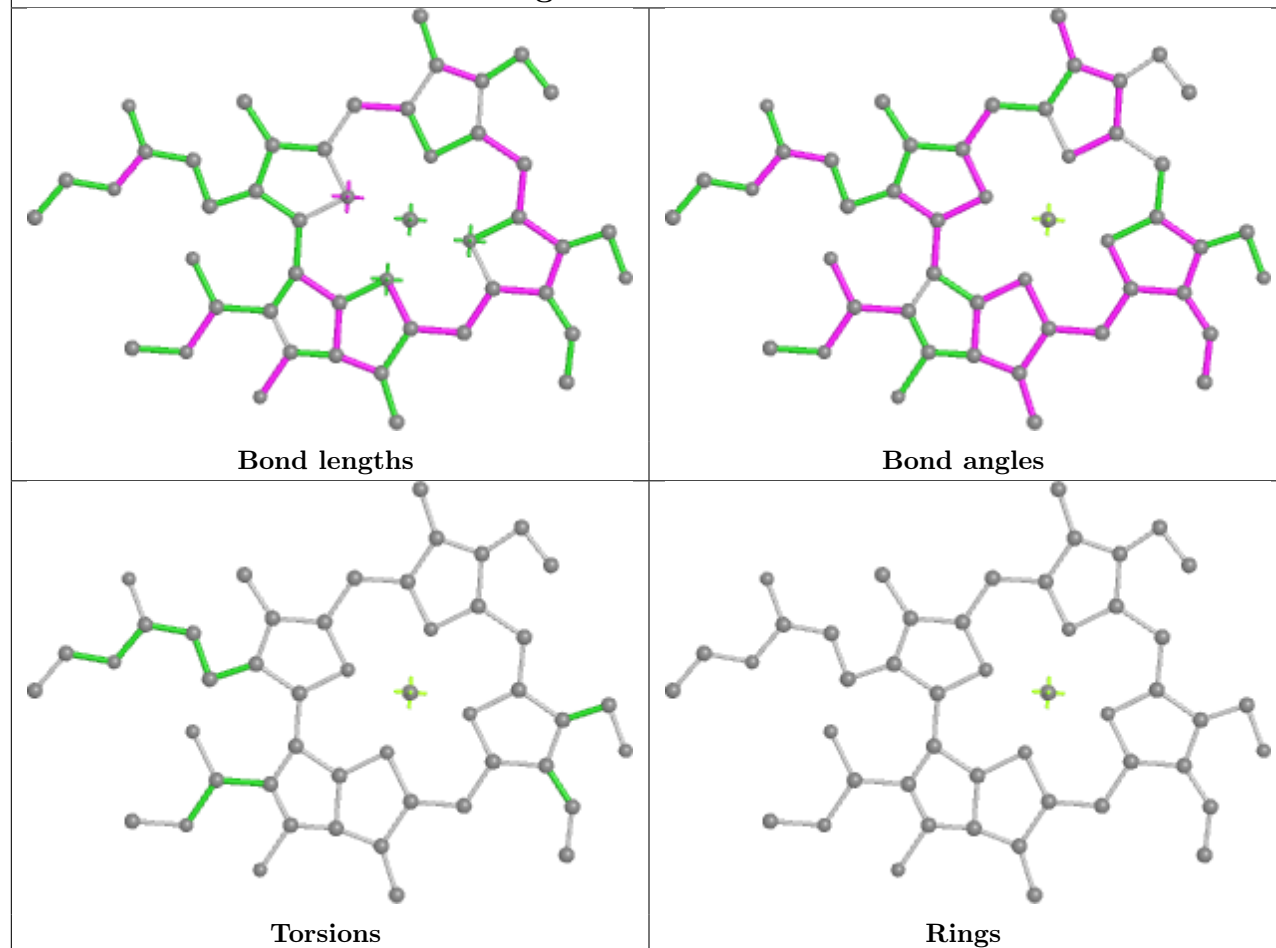


Rings

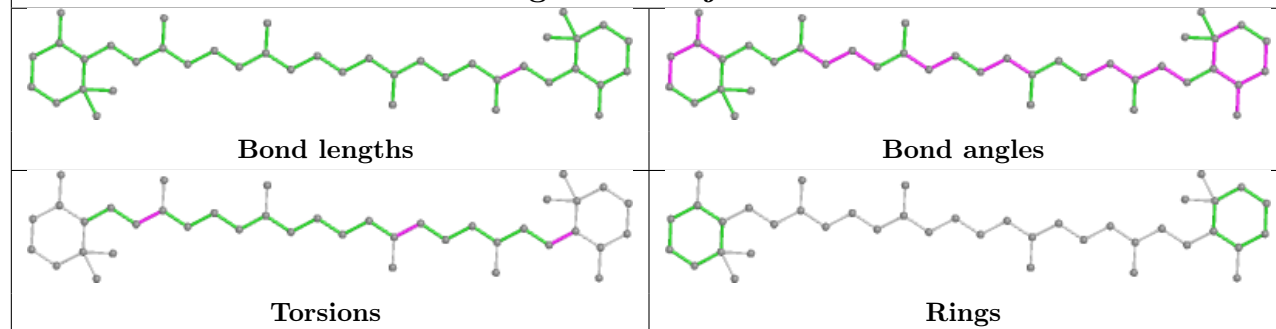
Ligand CLA a 817



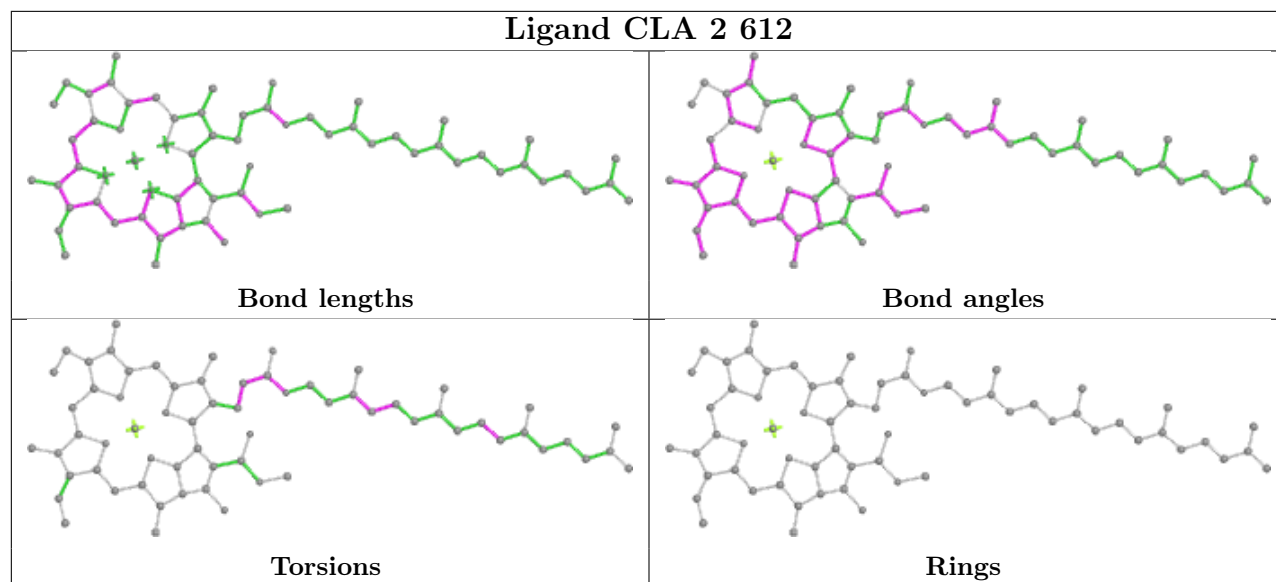
Ligand CHL 7 606



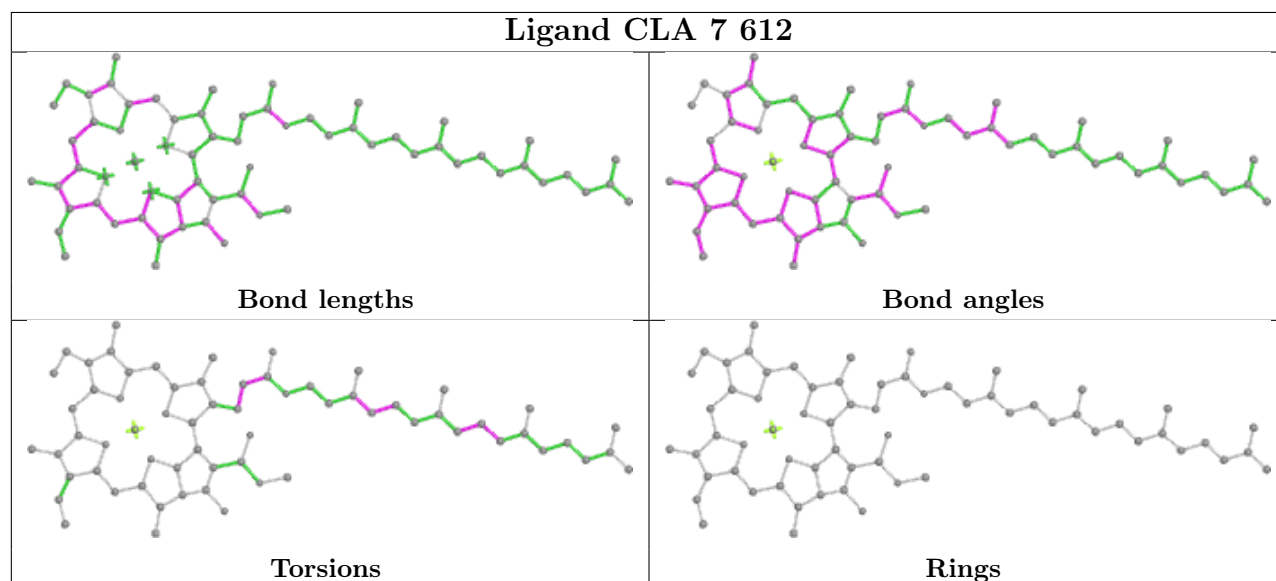
Ligand BCR j 3003



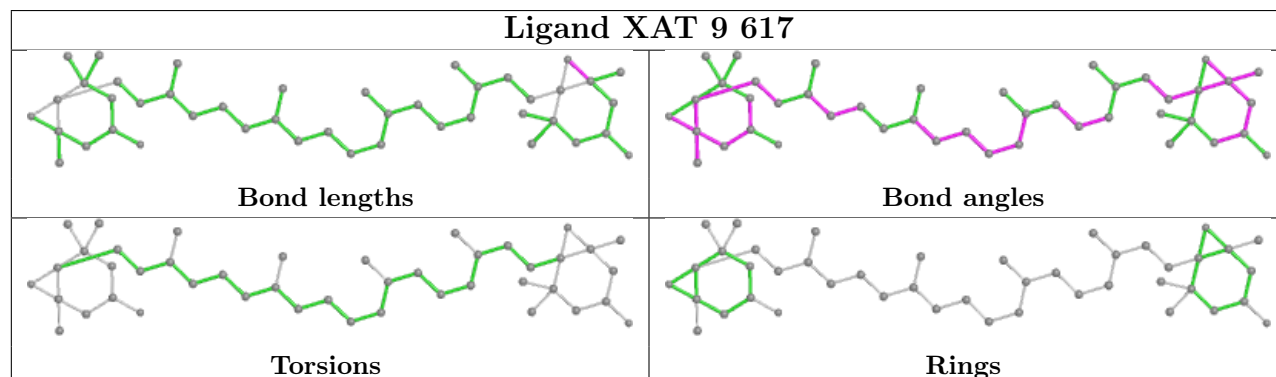
Ligand CLA 2 612



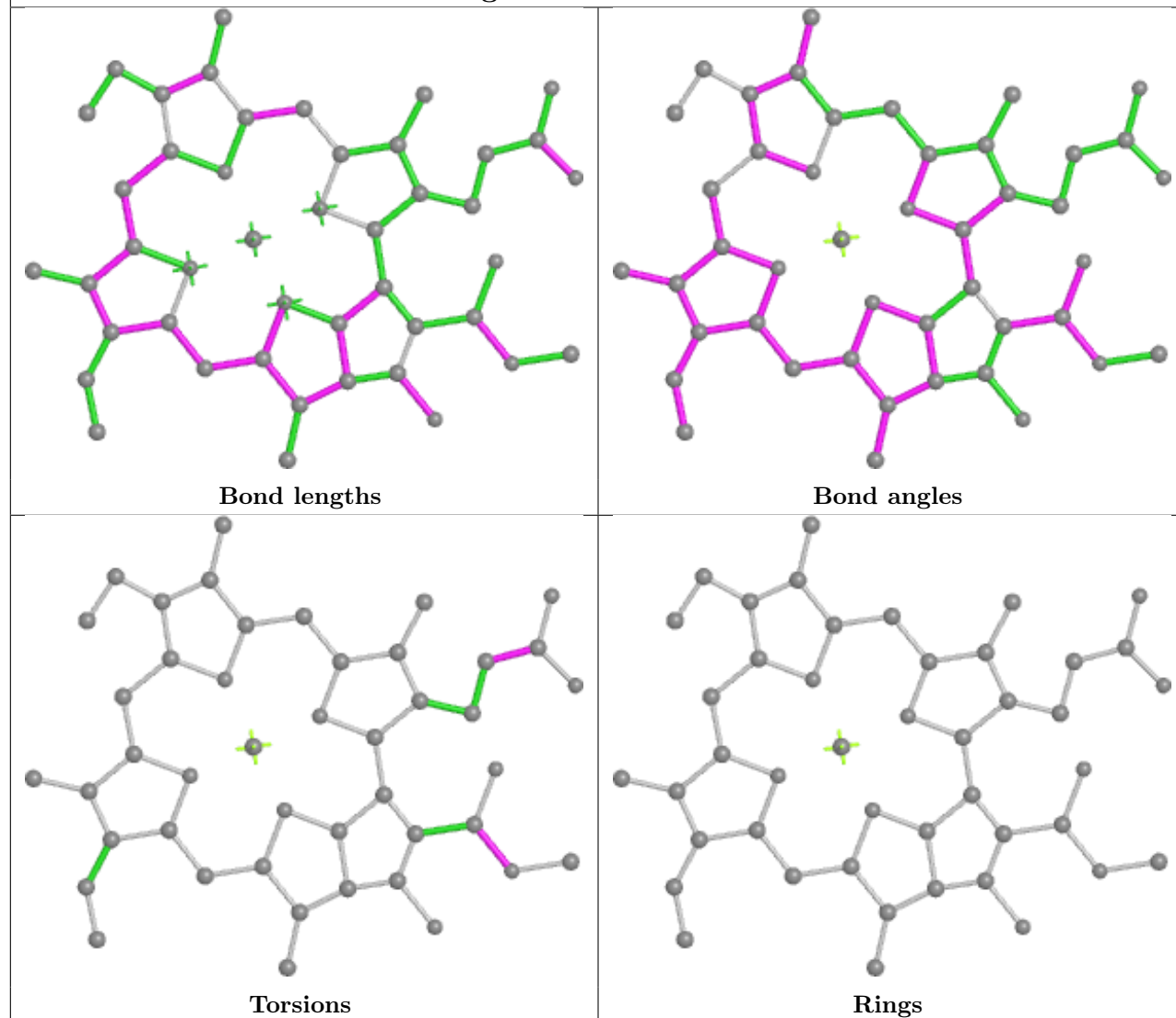
Ligand CLA 7 612



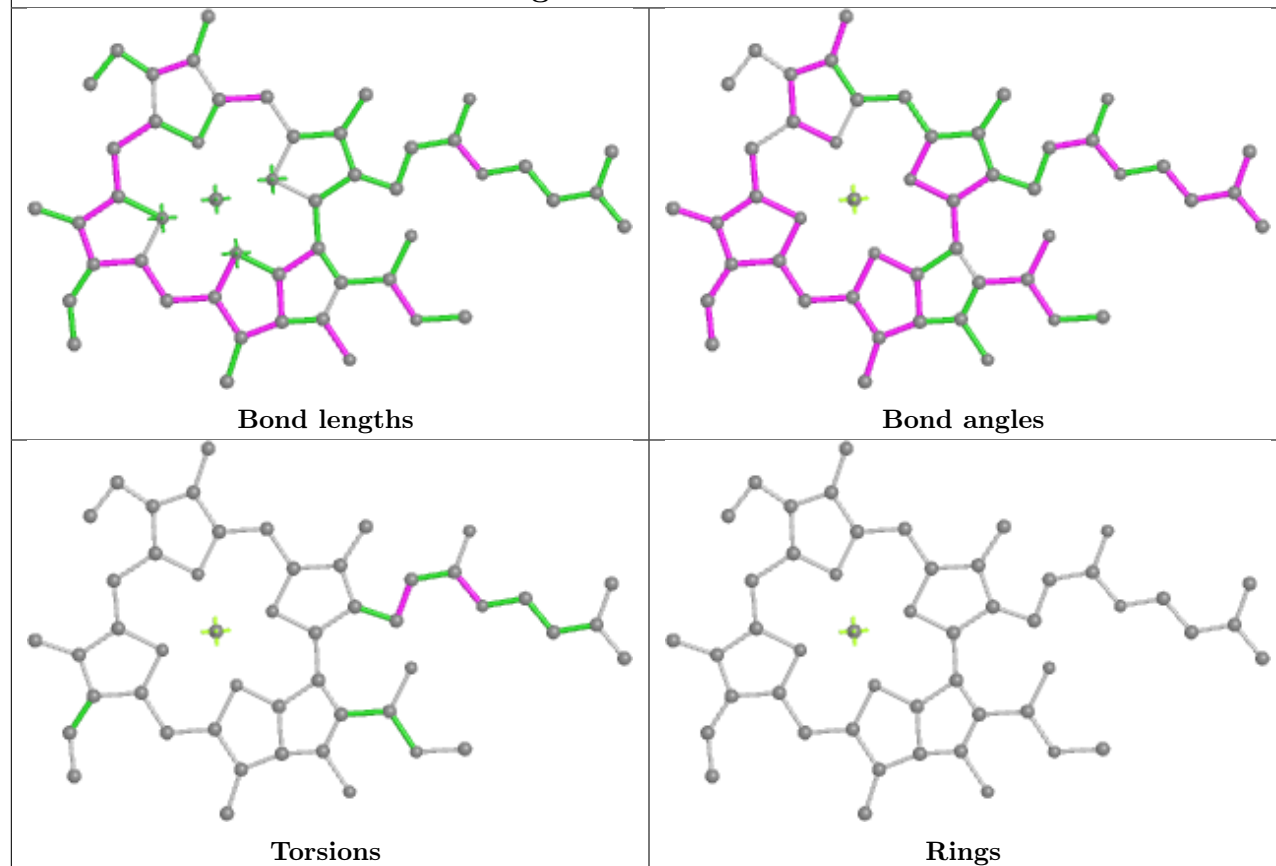
Ligand XAT 9 617



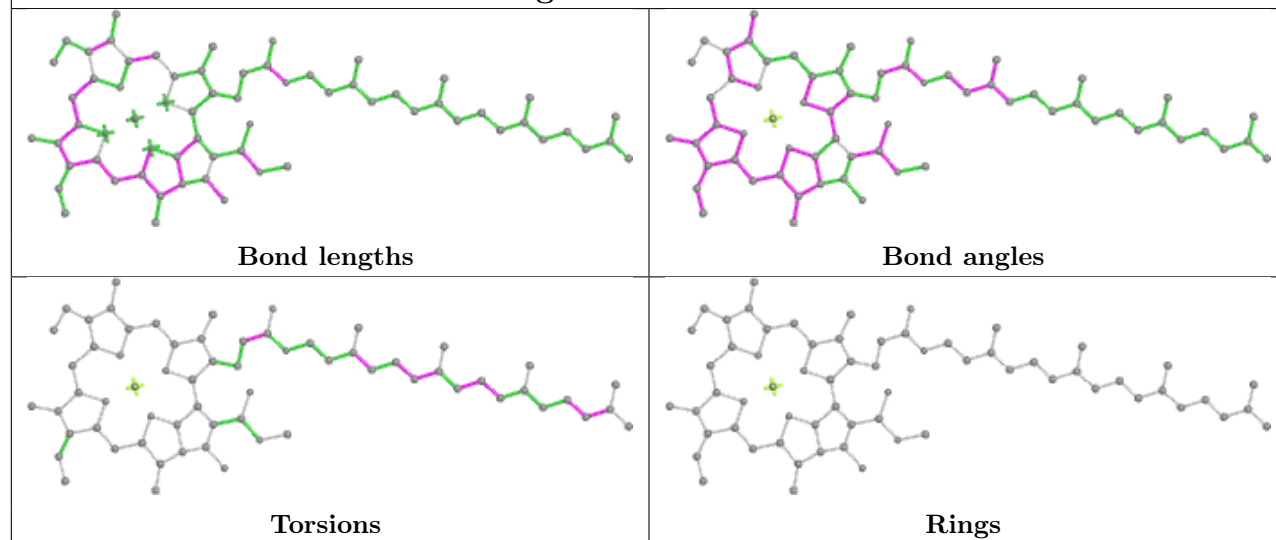
Ligand CLA K 4002



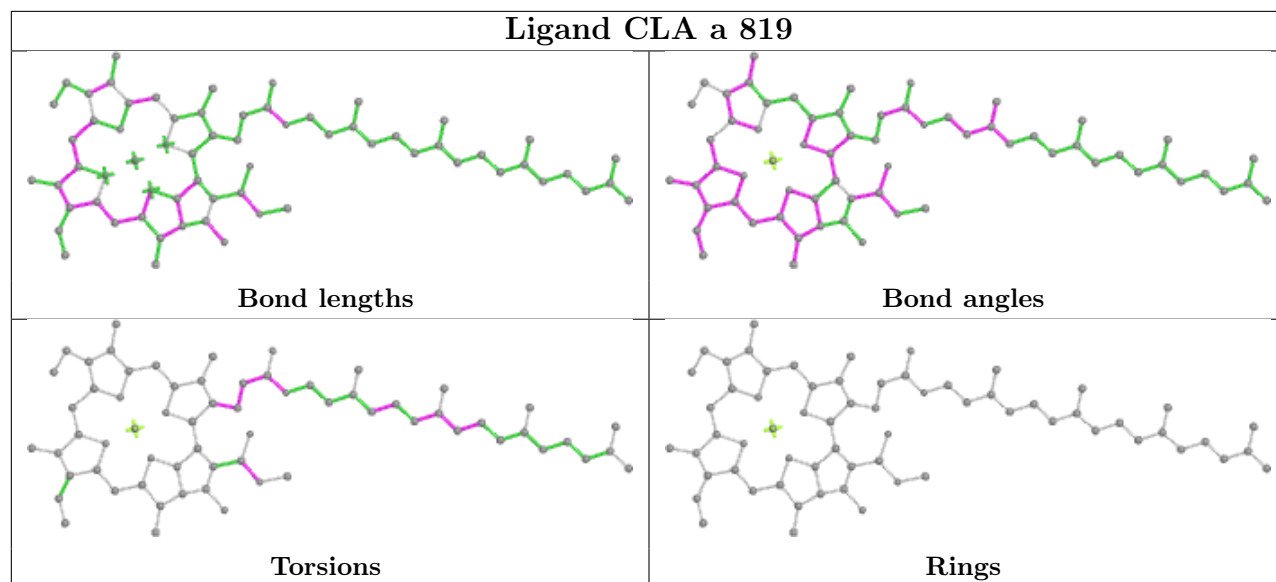
Ligand CLA A 816



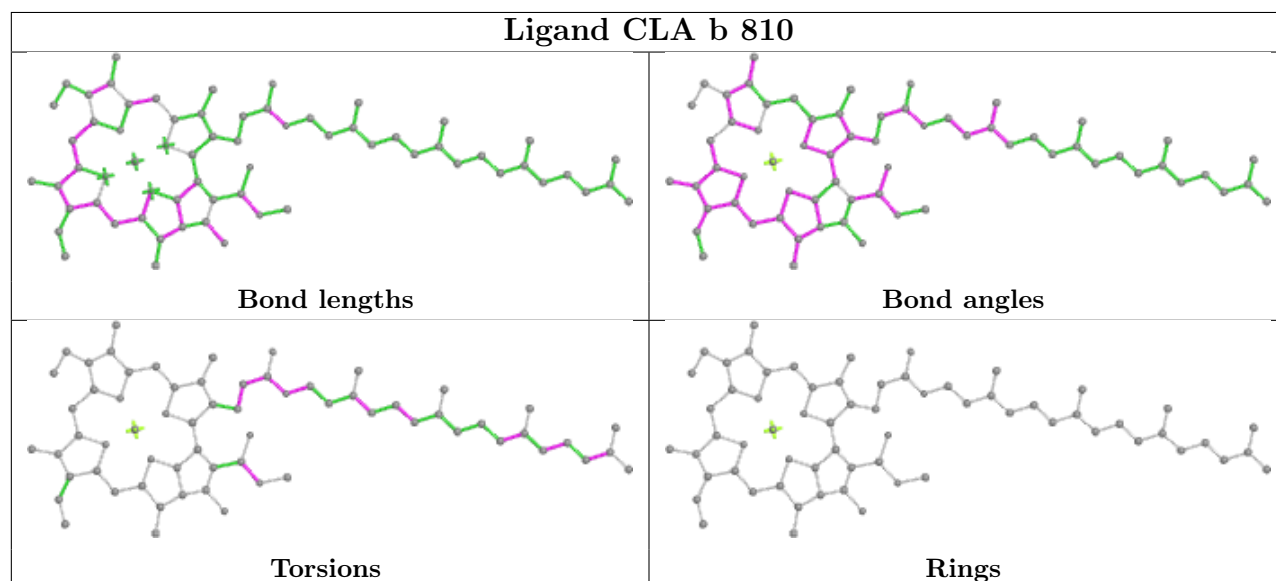
Ligand CLA 1 304



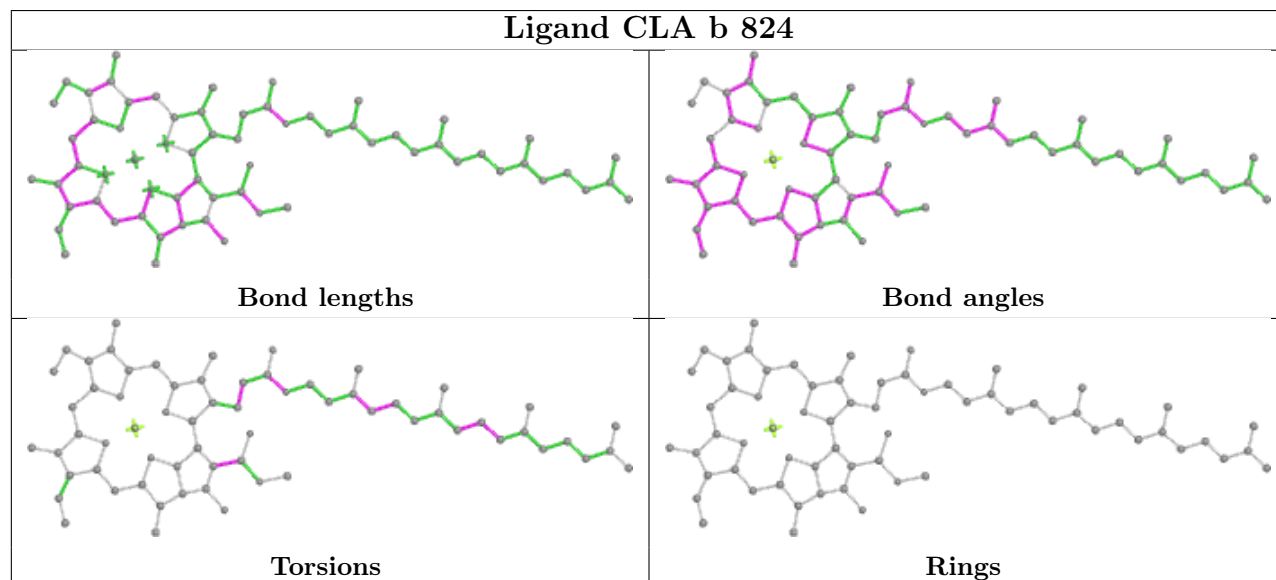
Ligand CLA a 819

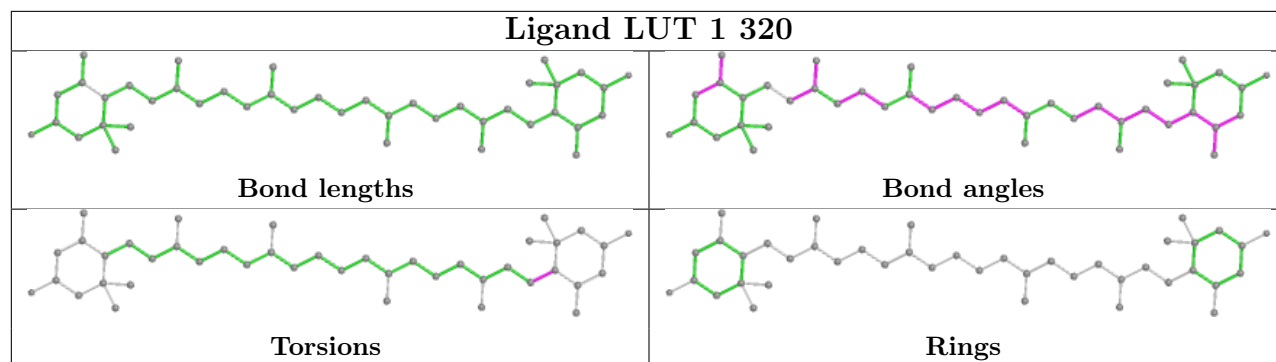
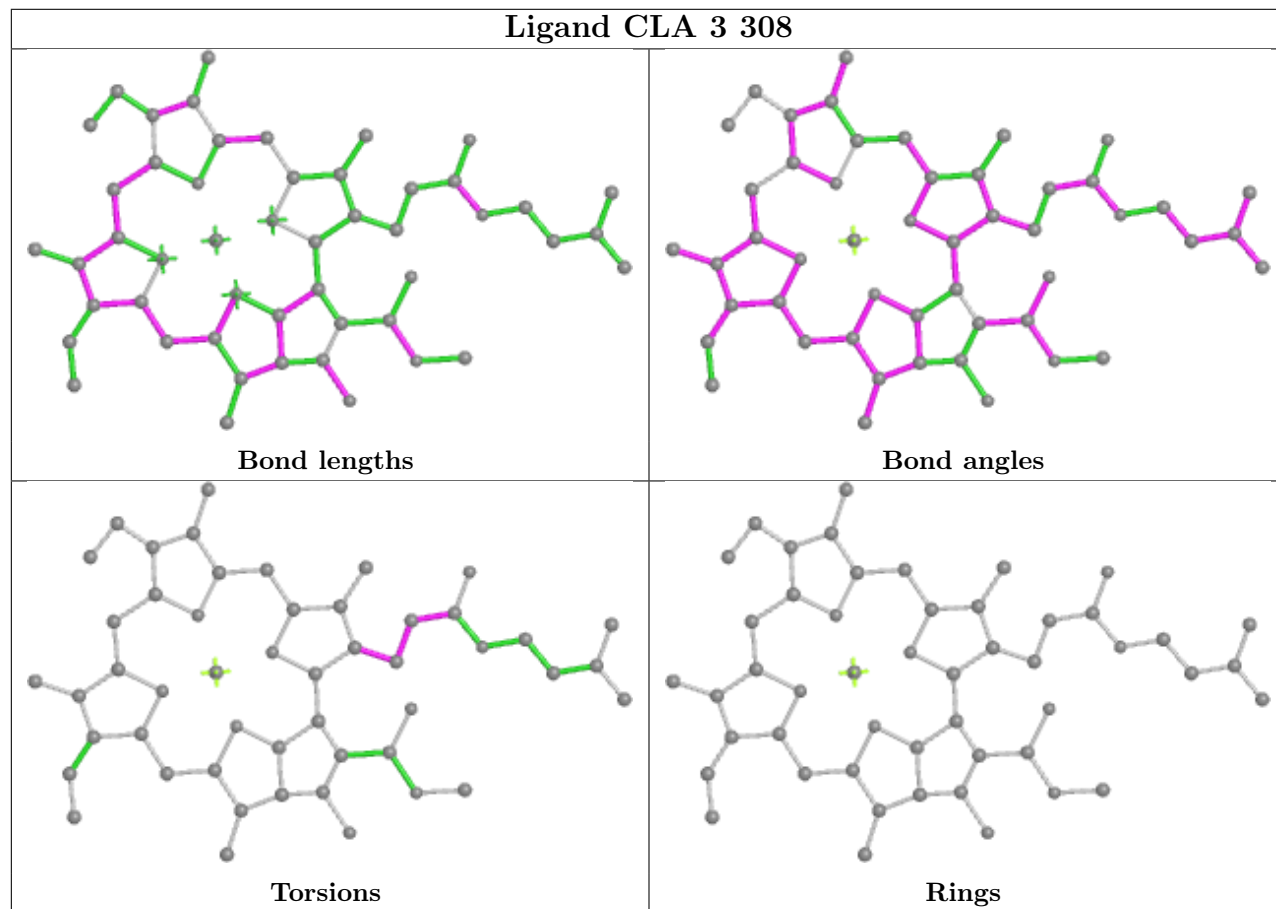
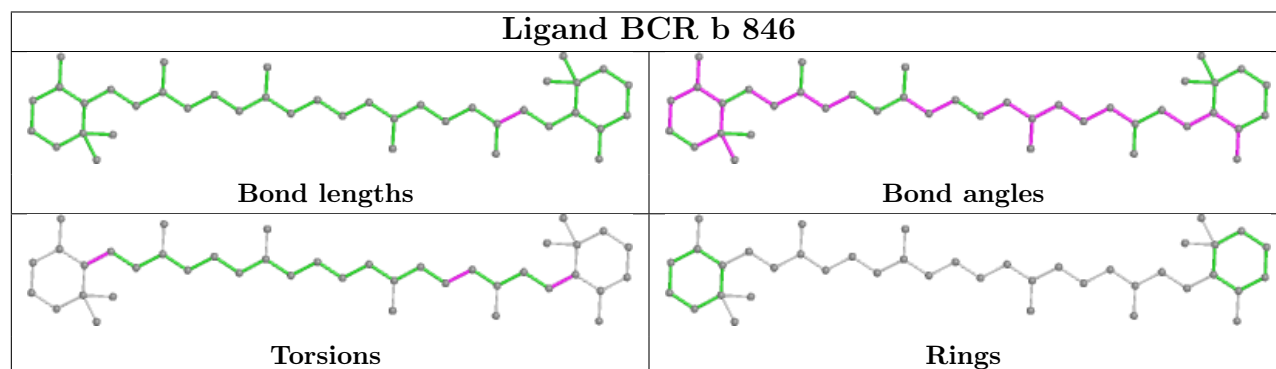


Ligand CLA b 810

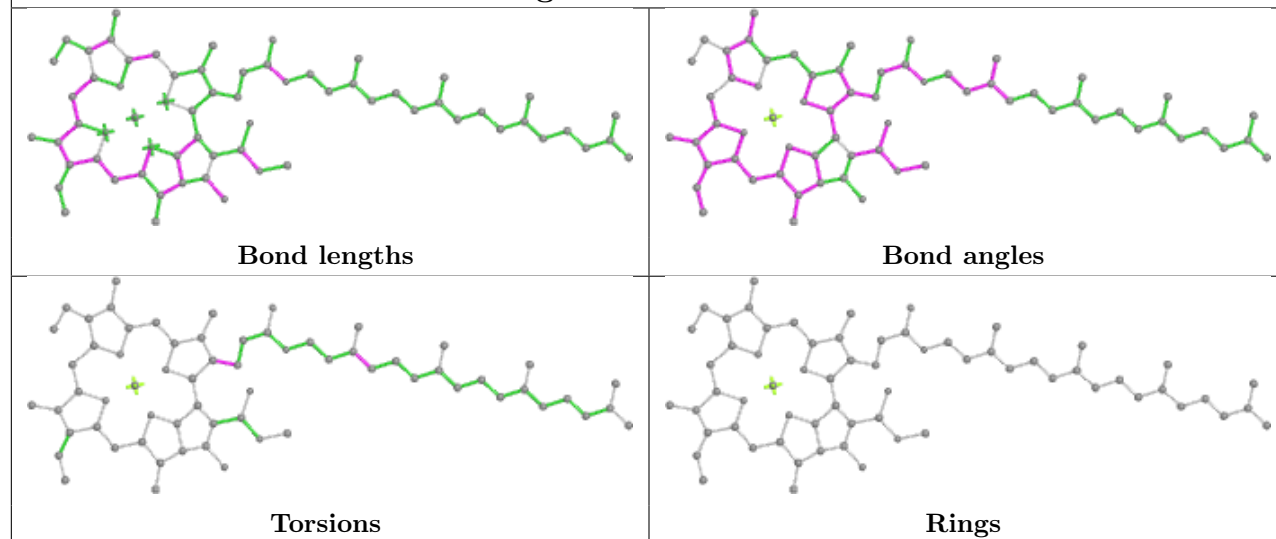


Ligand CLA b 824

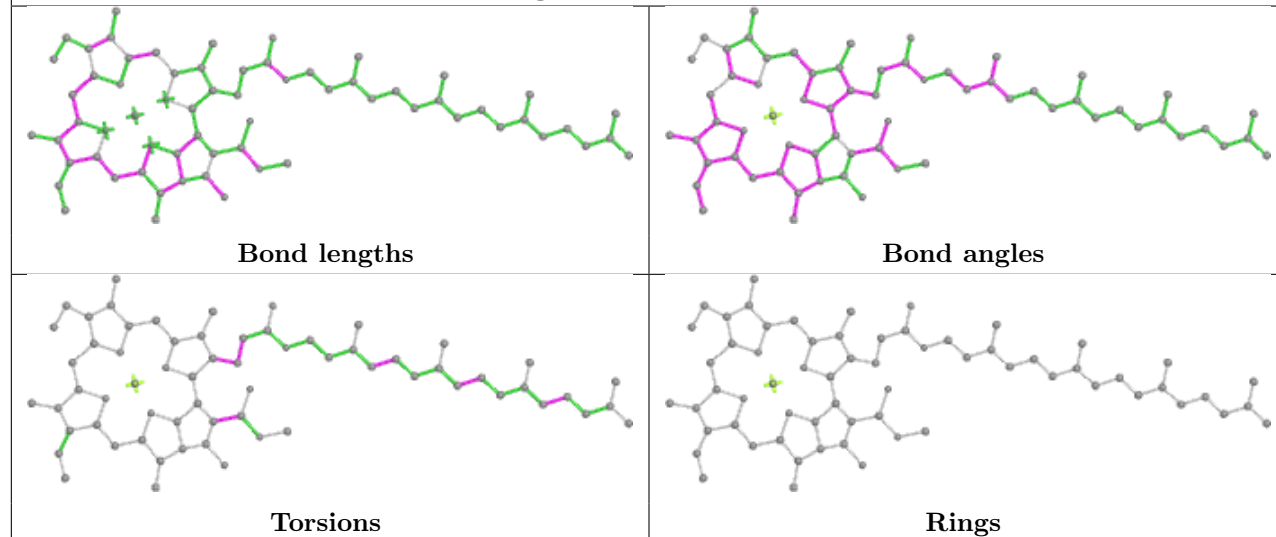


Ligand LUT 1 320**Ligand CLA 3 308****Ligand BCR b 846**

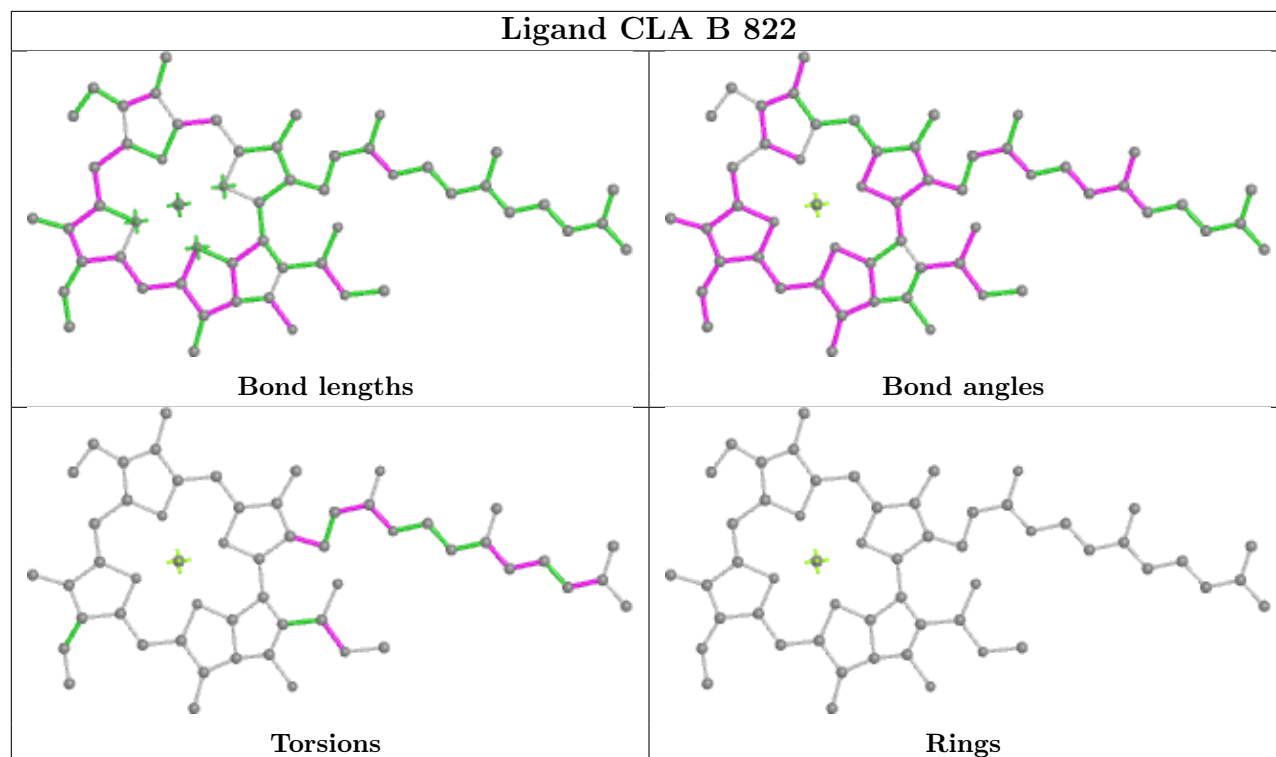
Ligand CLA a 822



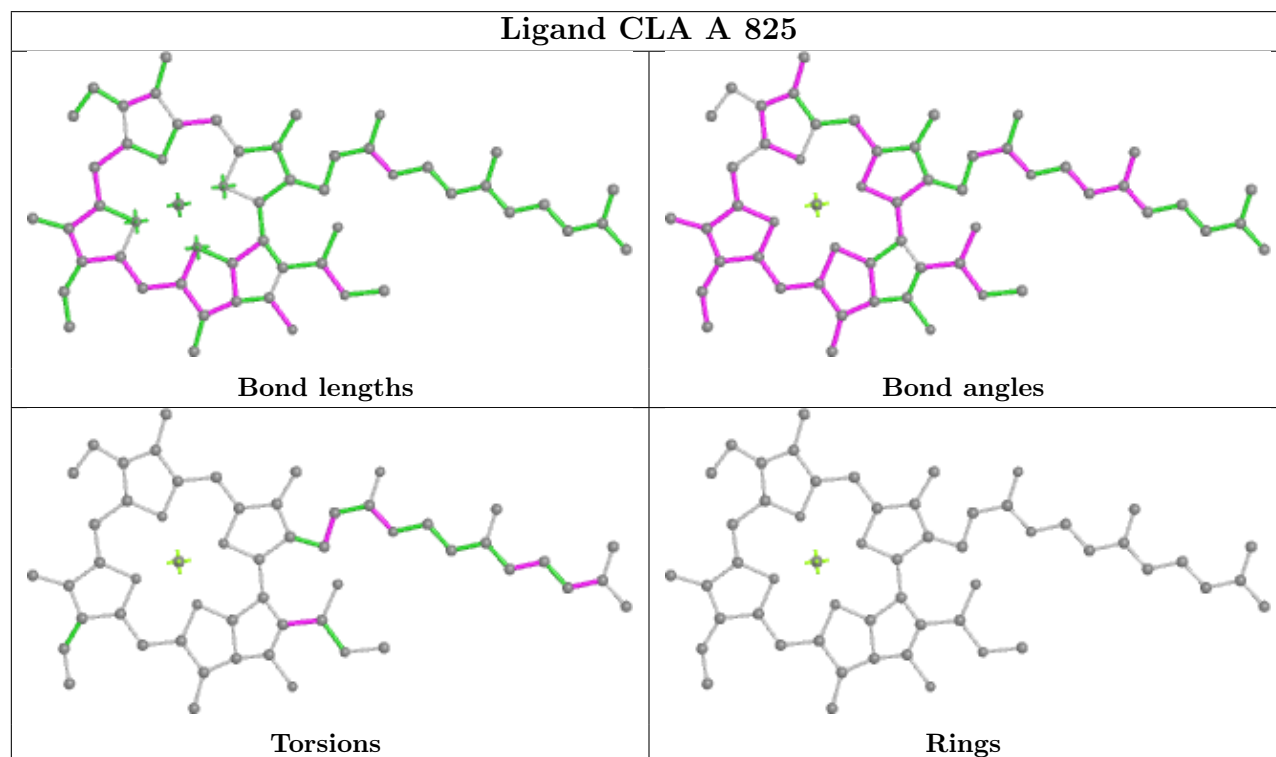
Ligand CLA A 804



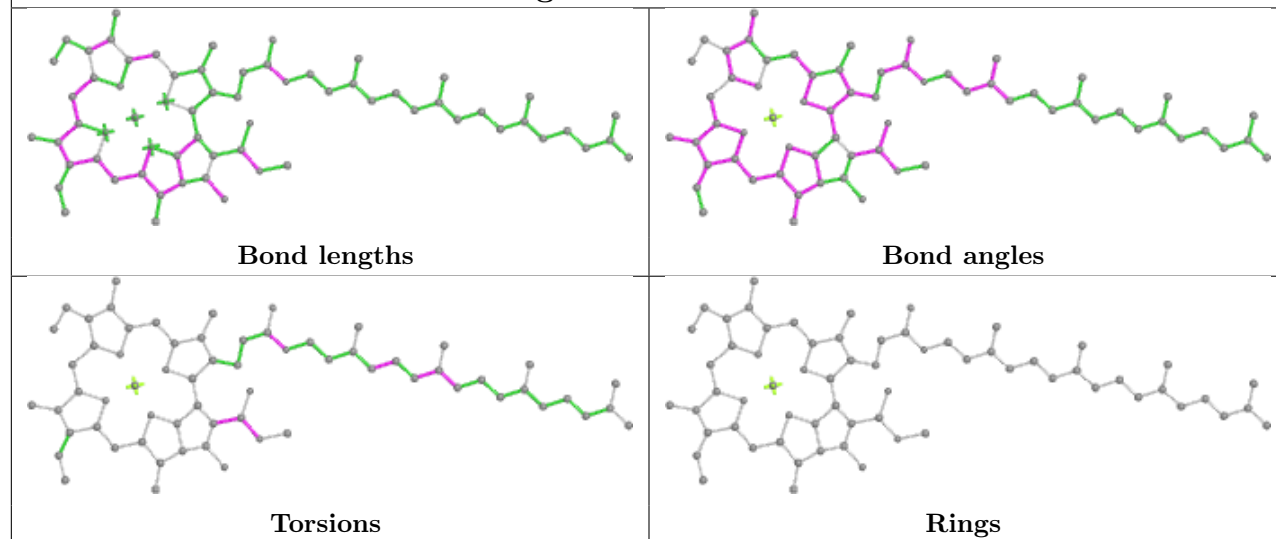
Ligand CLA B 822



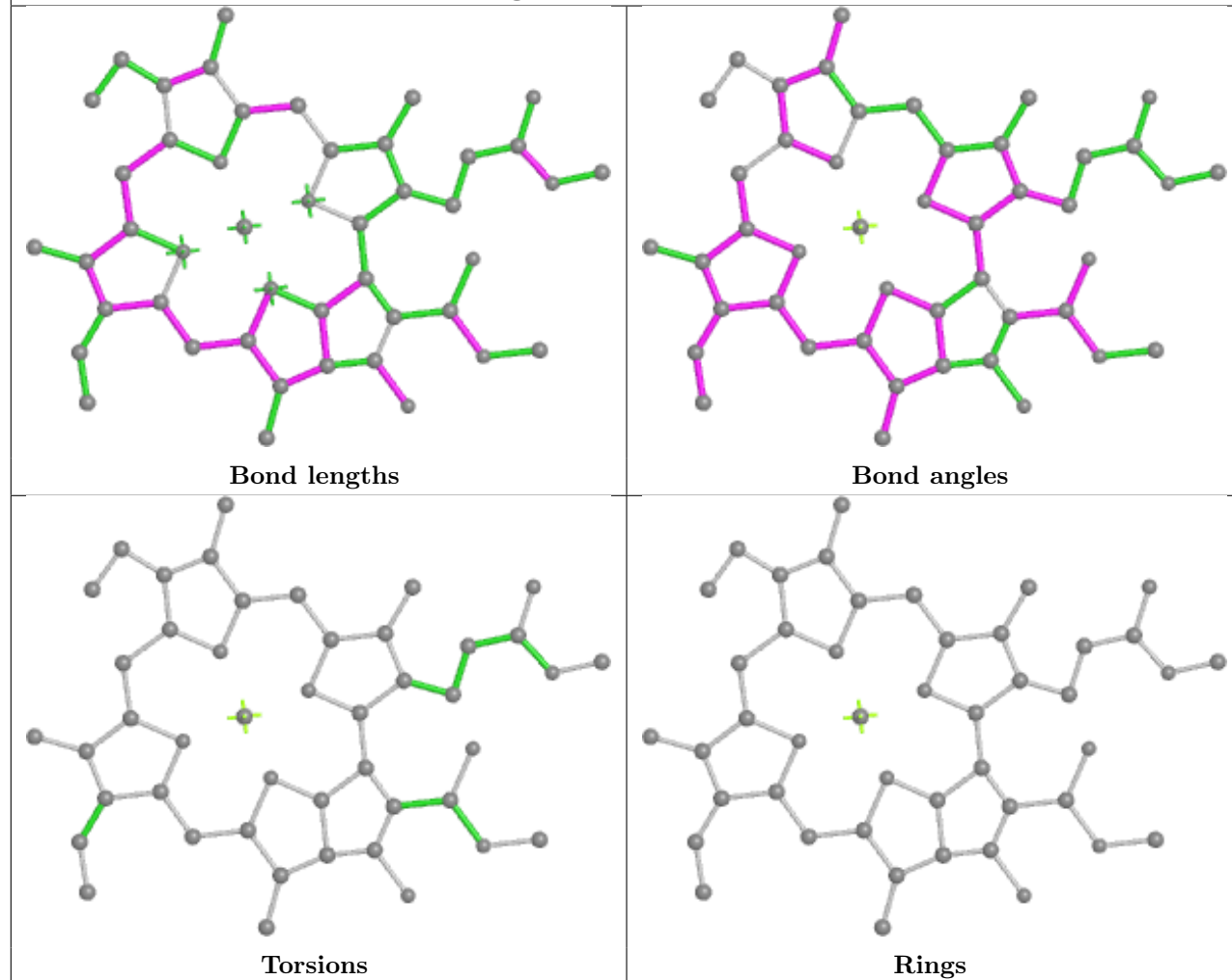
Ligand CLA A 825



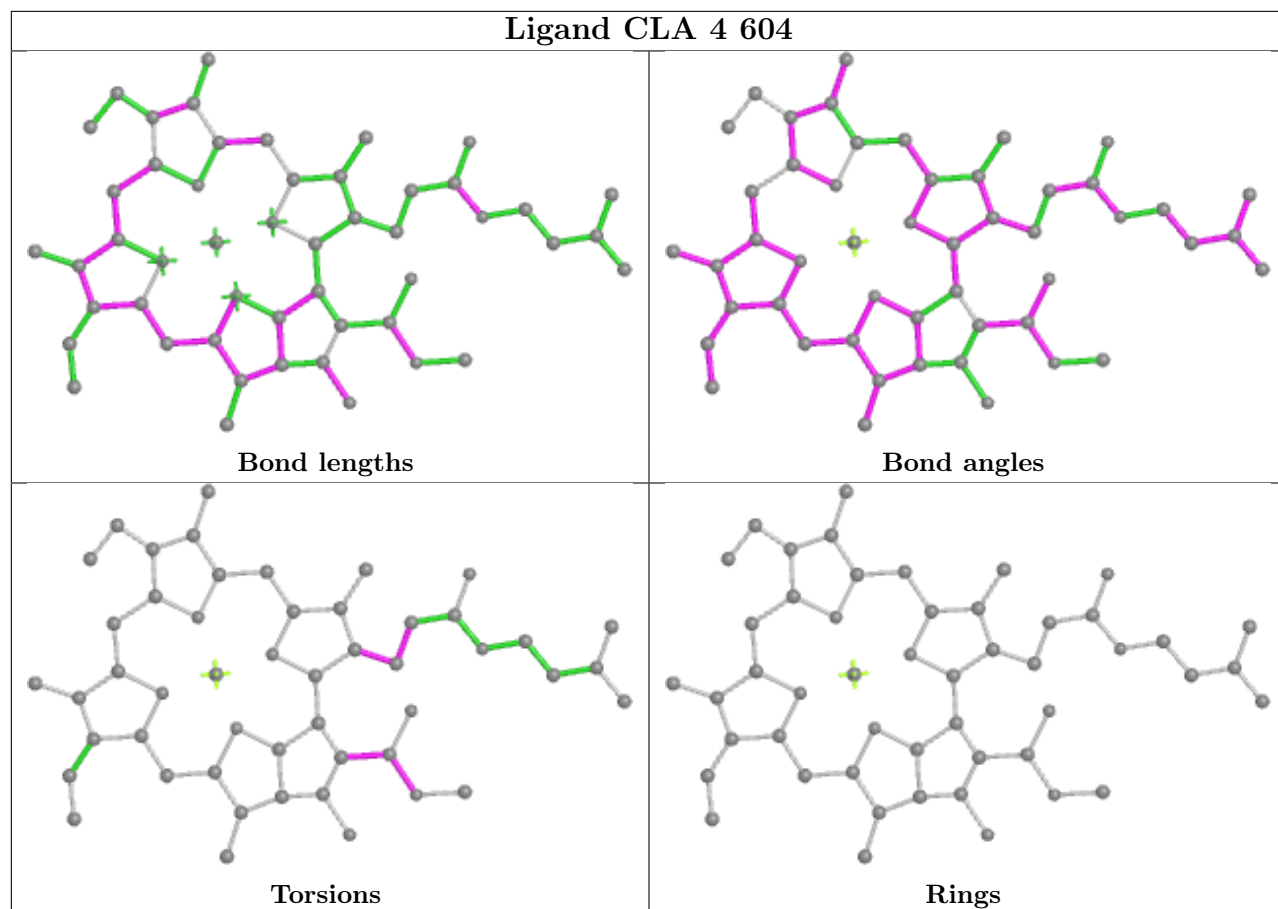
Ligand CLA a 835



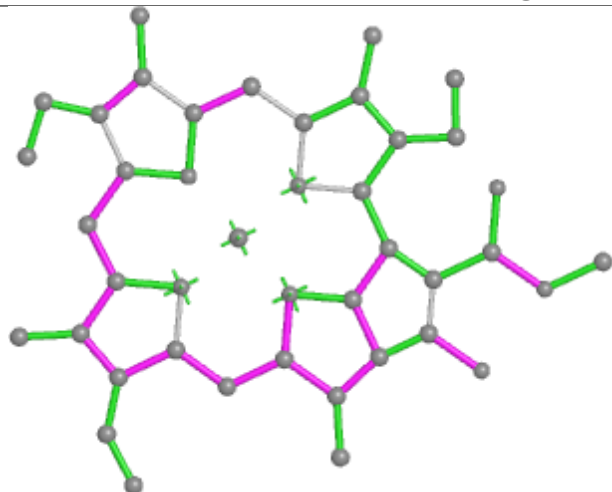
Ligand CLA k 1402



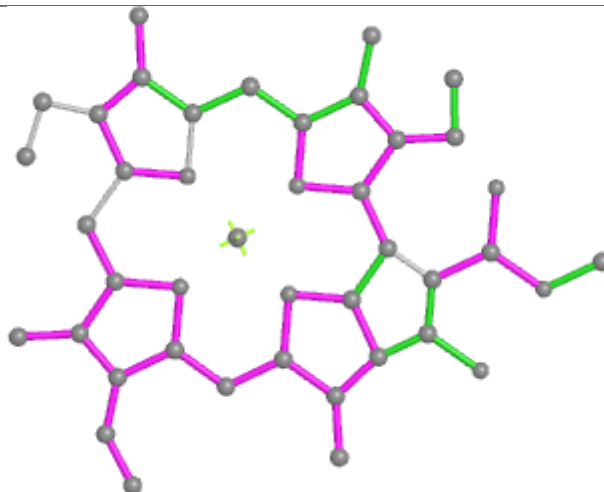
Ligand CLA 4 604



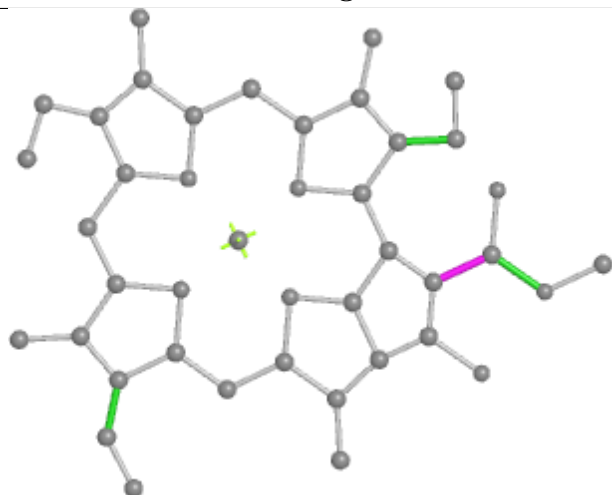
Ligand CLA 3 305



Bond lengths



Bond angles

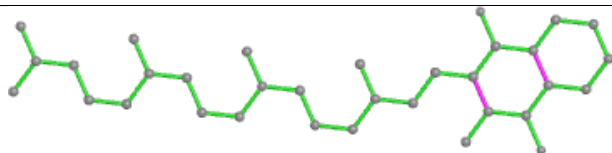


Torsions

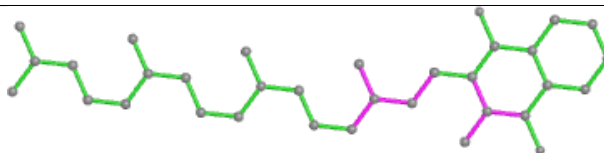


Rings

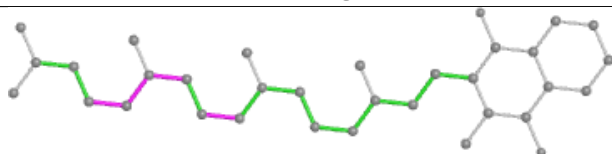
Ligand PQN a 845



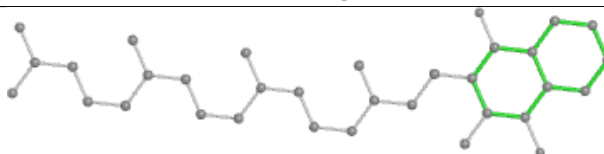
Bond lengths



Bond angles

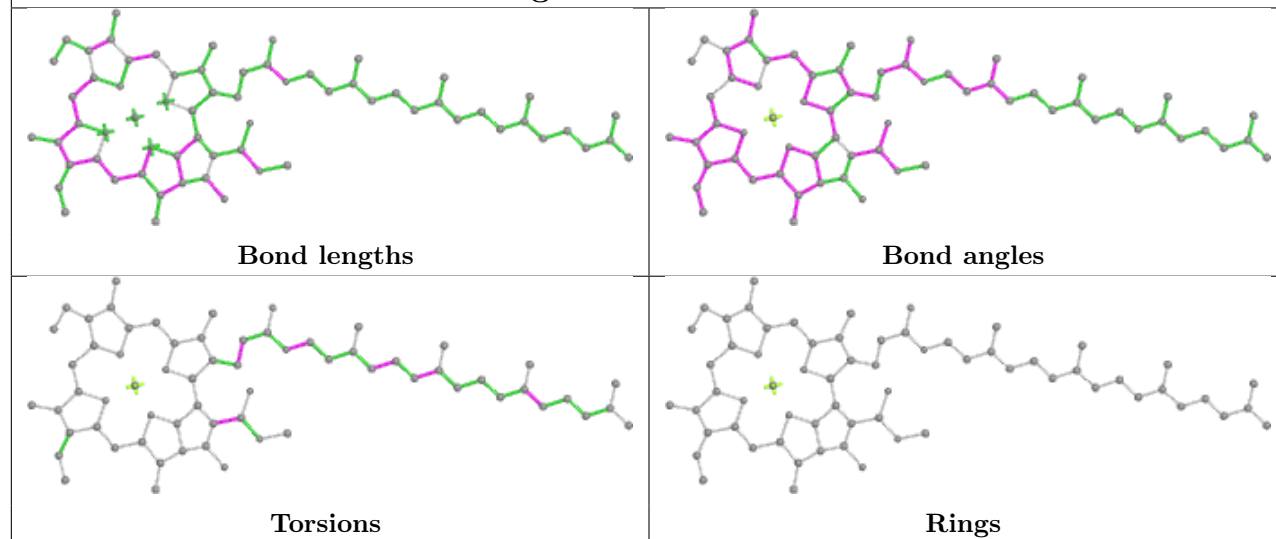


Torsions

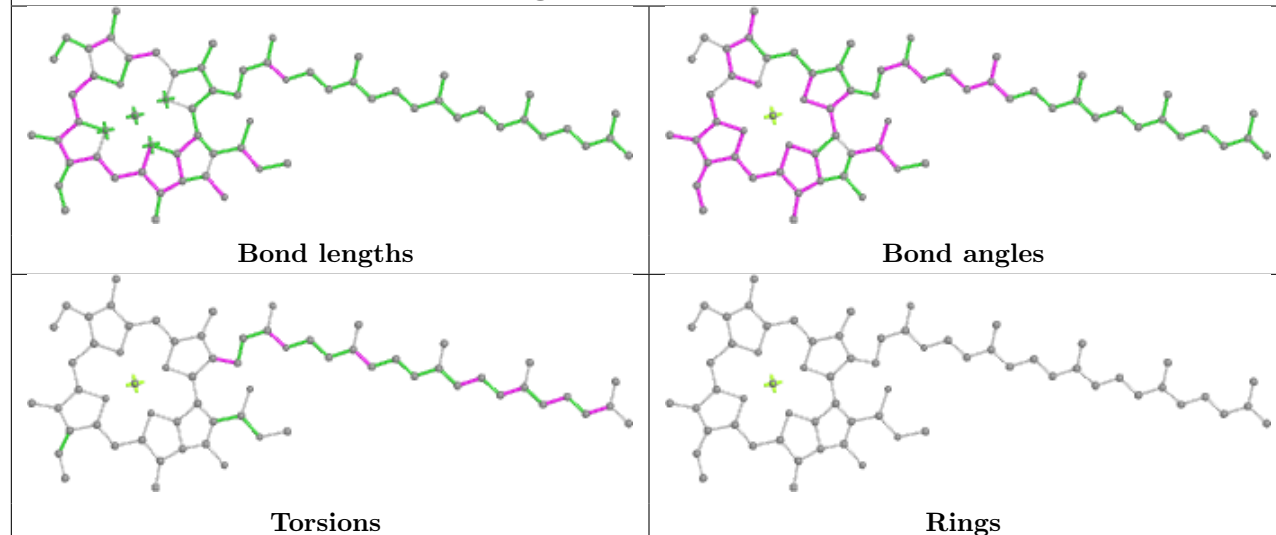


Rings

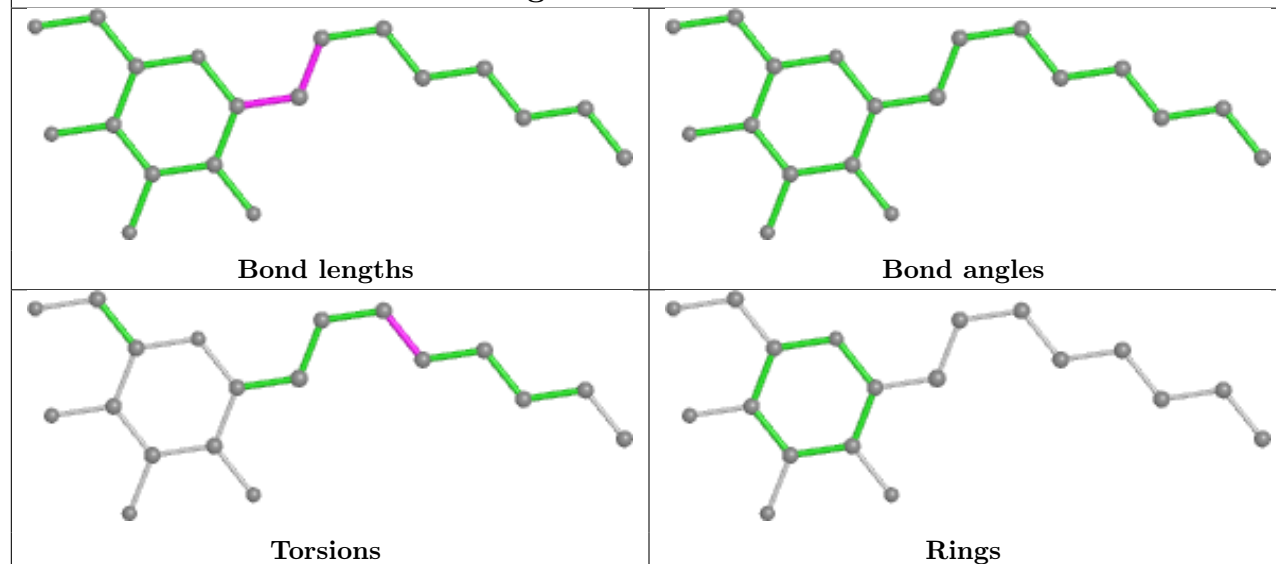
Ligand CLA A 854



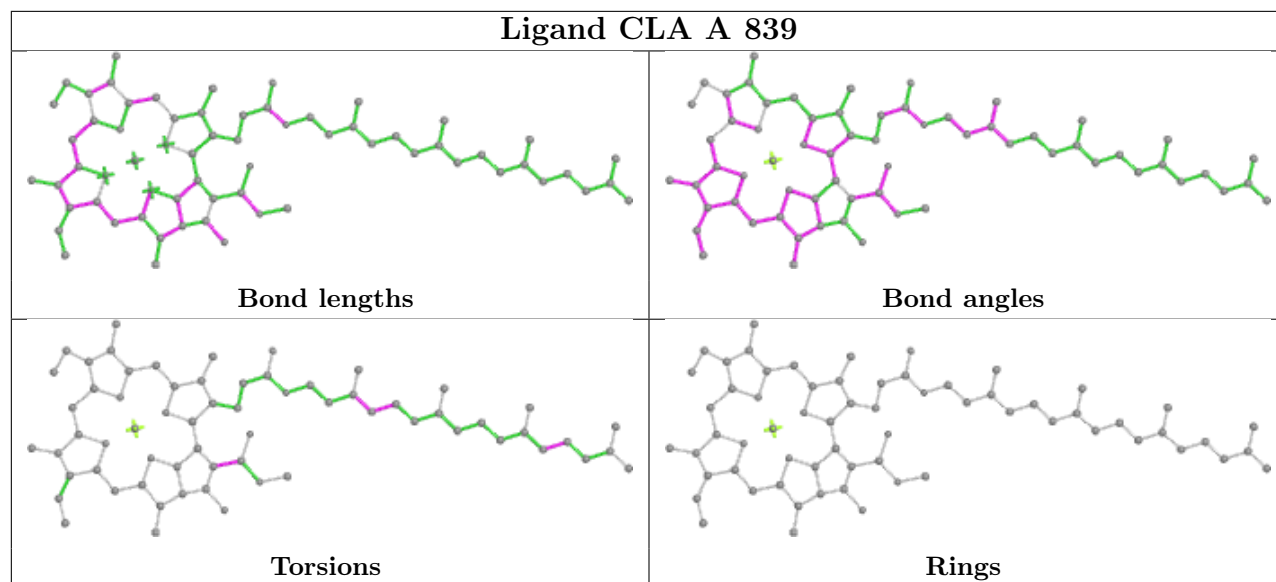
Ligand CLA A 820



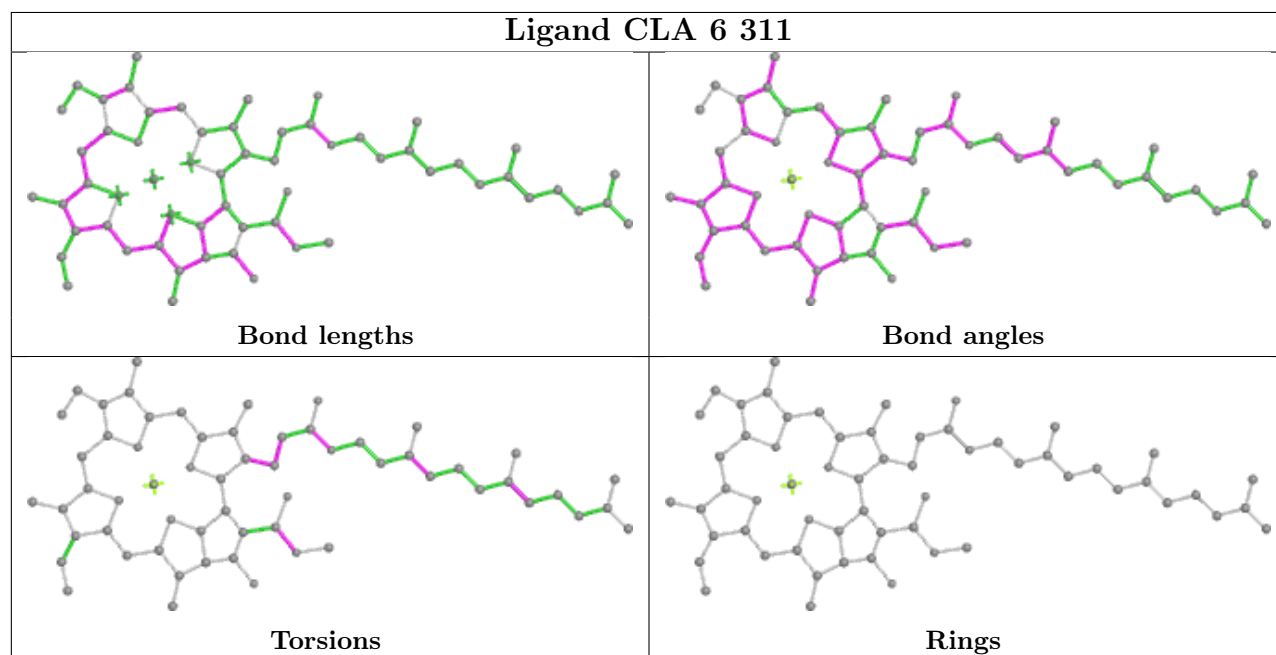
Ligand HTG f 7001

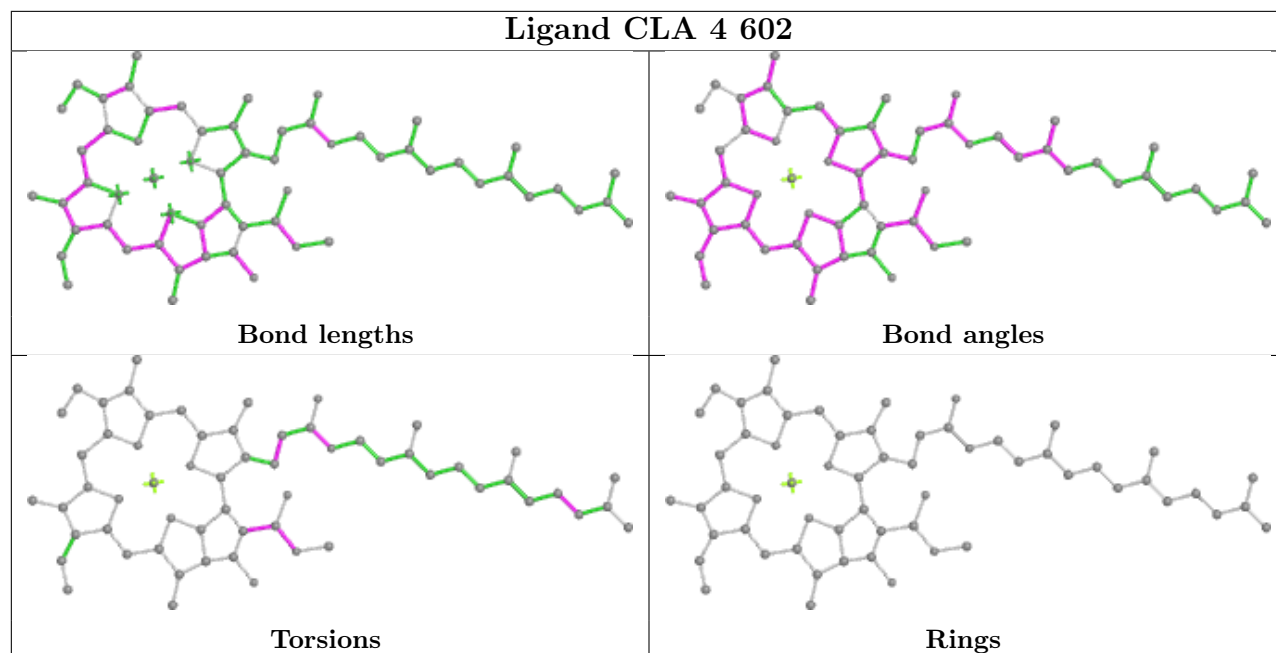
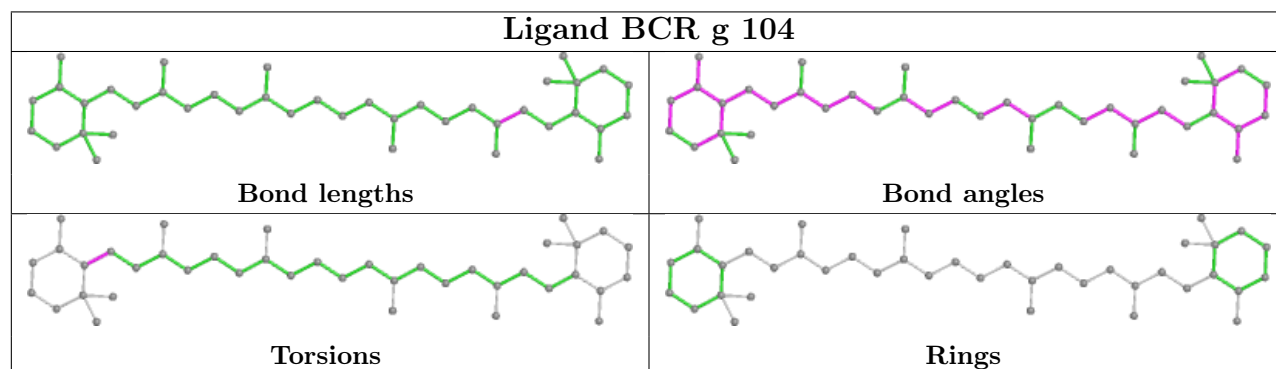


Ligand CLA A 839

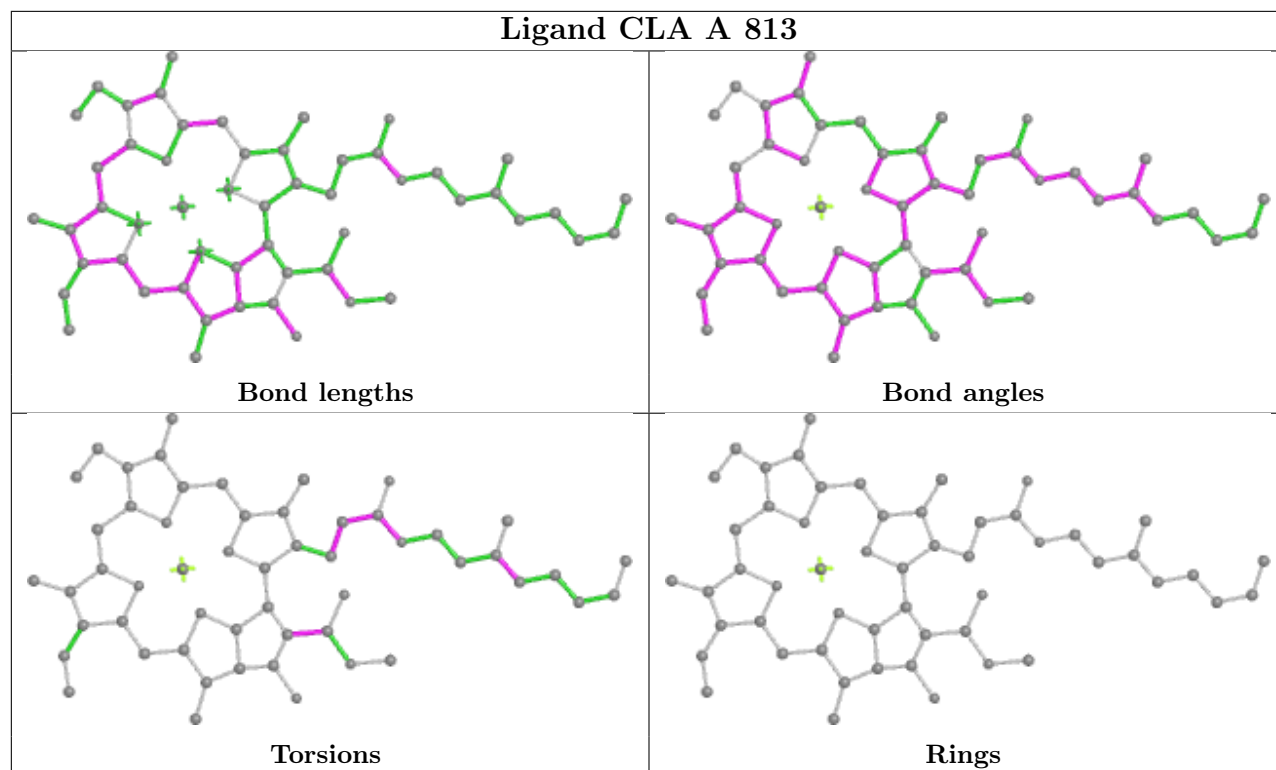


Ligand CLA 6 311

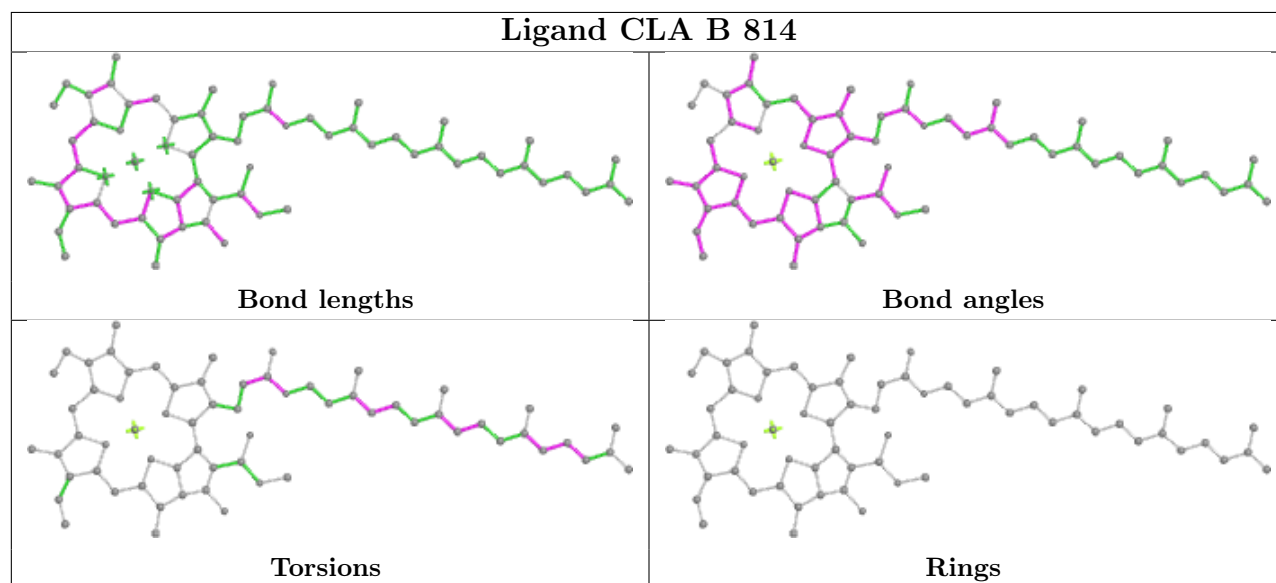


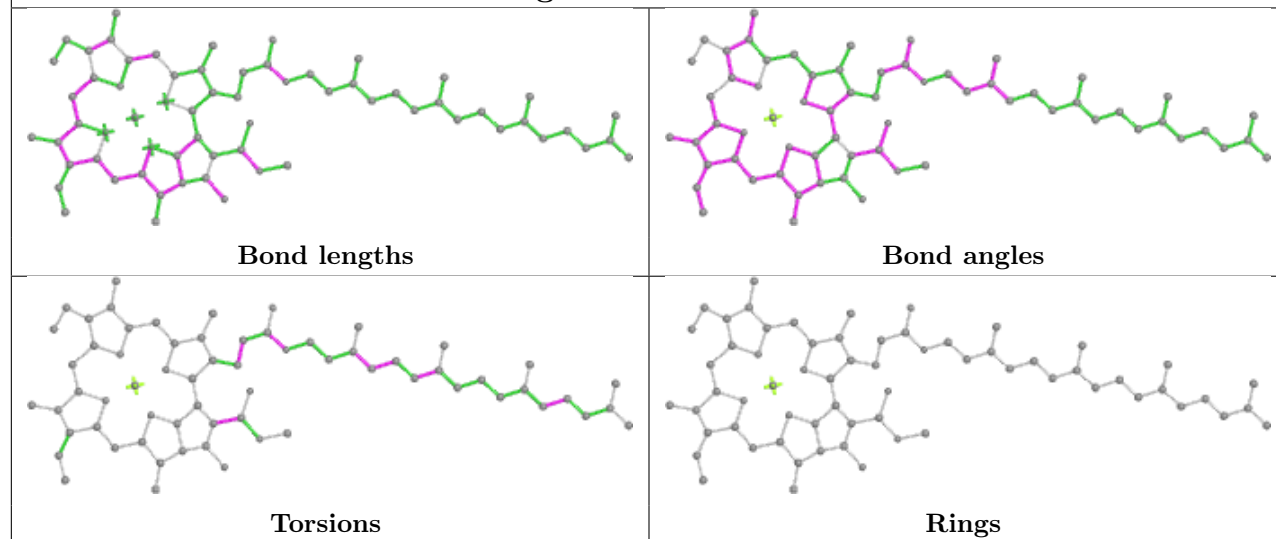
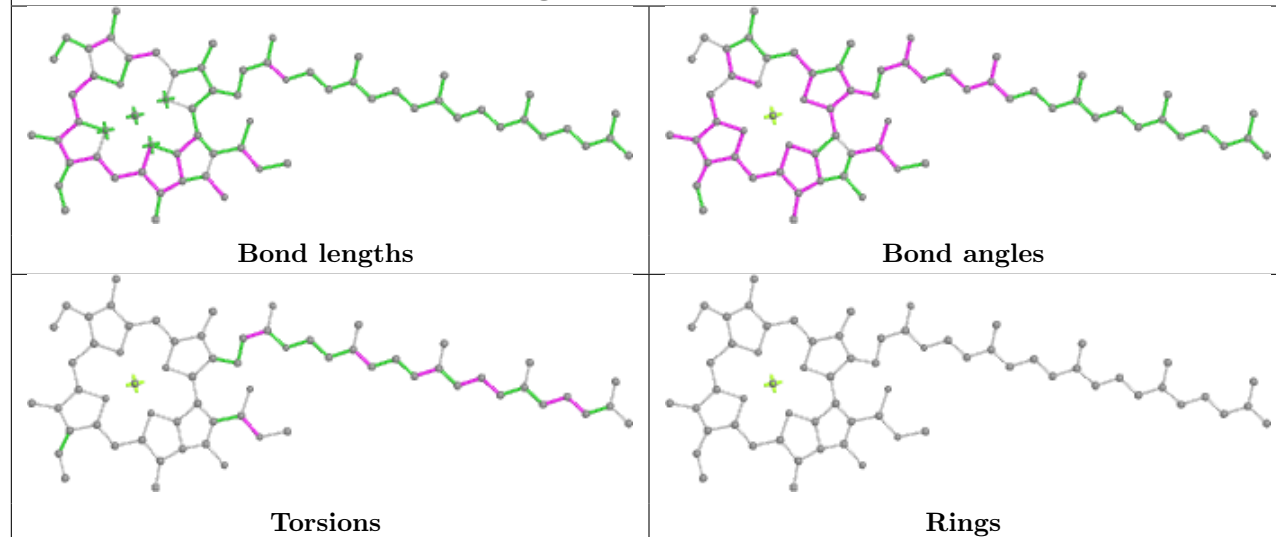
Ligand CLA 4 602**Ligand BCR g 104**

Ligand CLA A 813

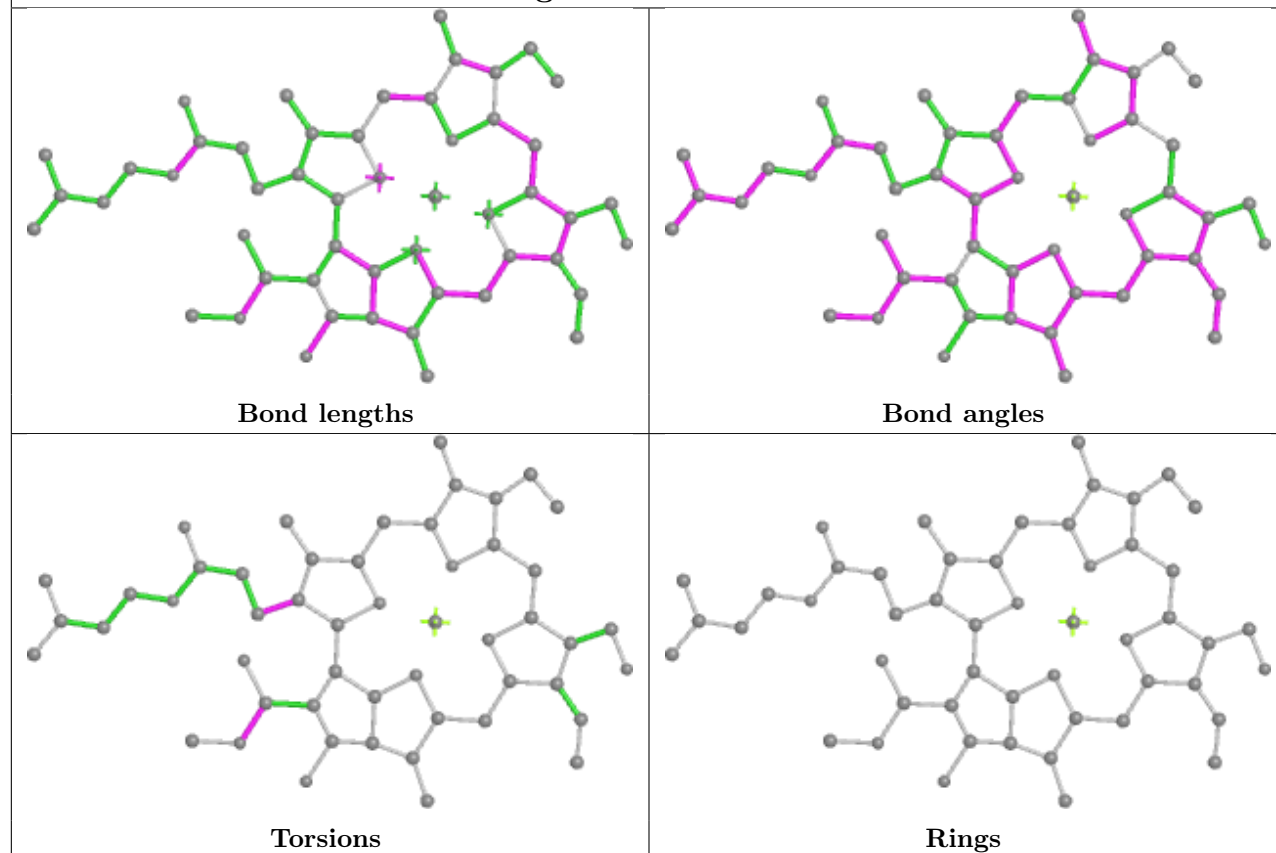


Ligand CLA B 814

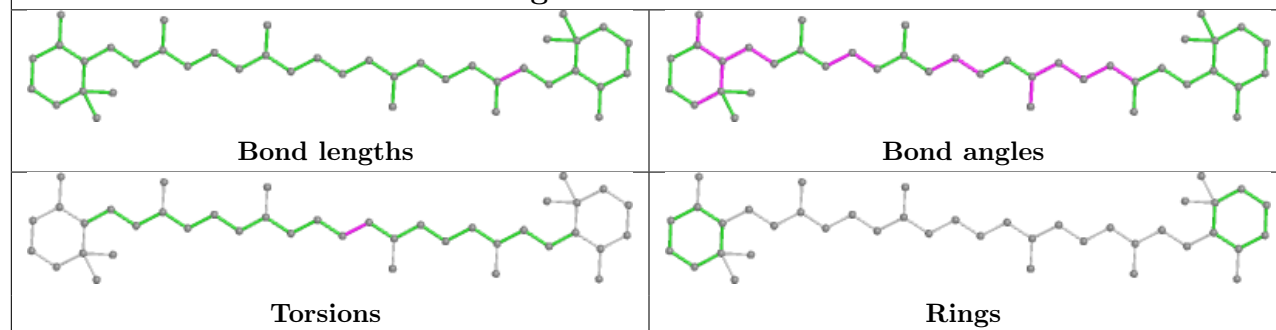


Ligand CLA 1 303**Ligand CLA b 832**

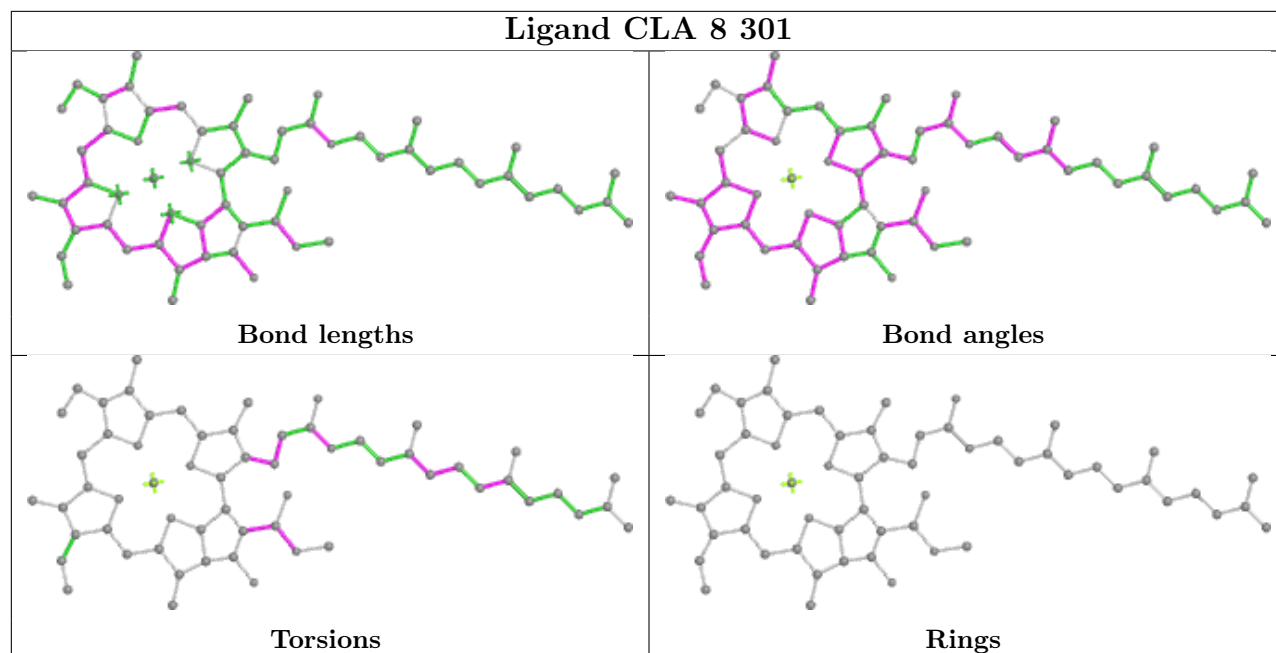
Ligand CHL 9 607



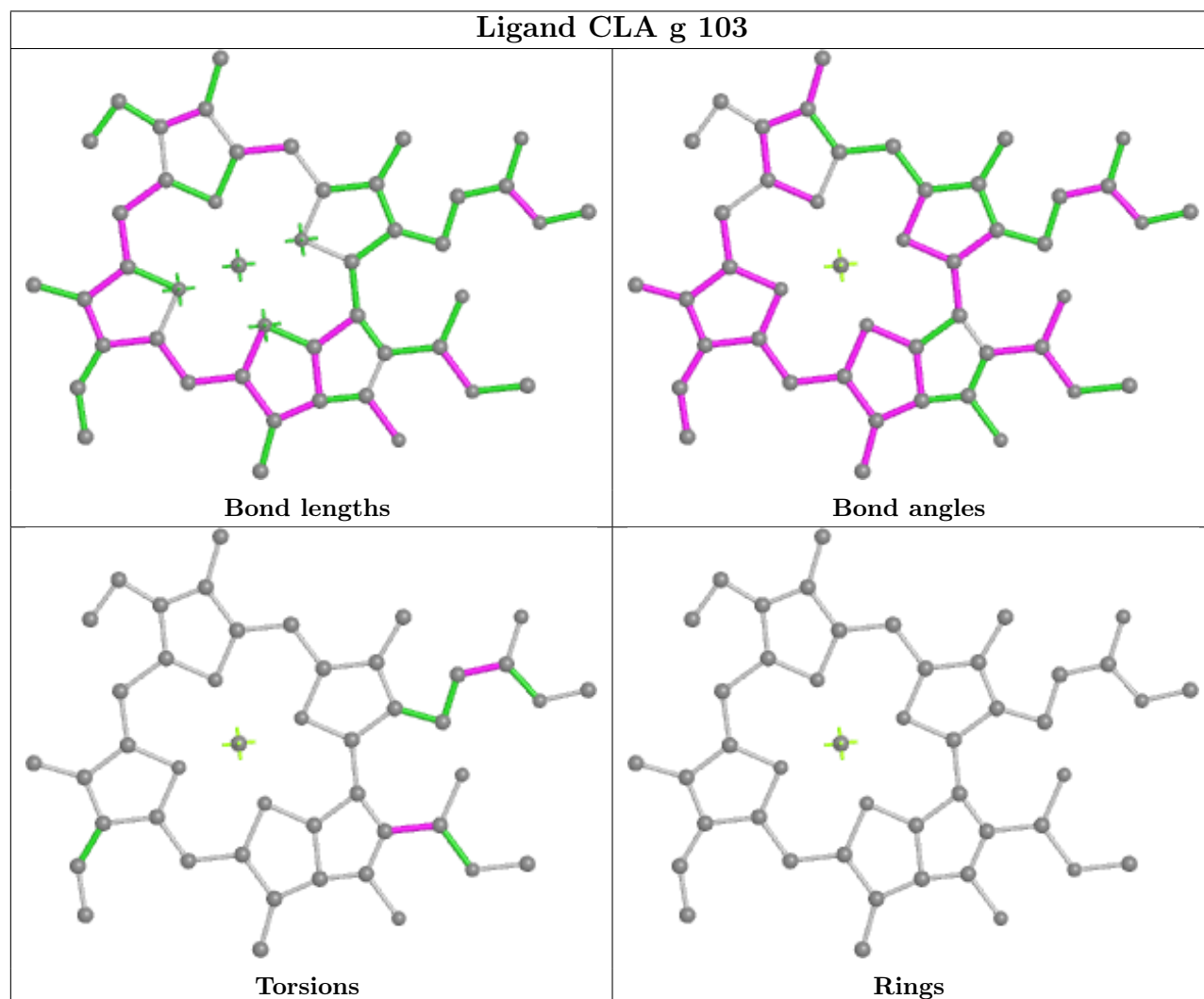
Ligand BCR B 801

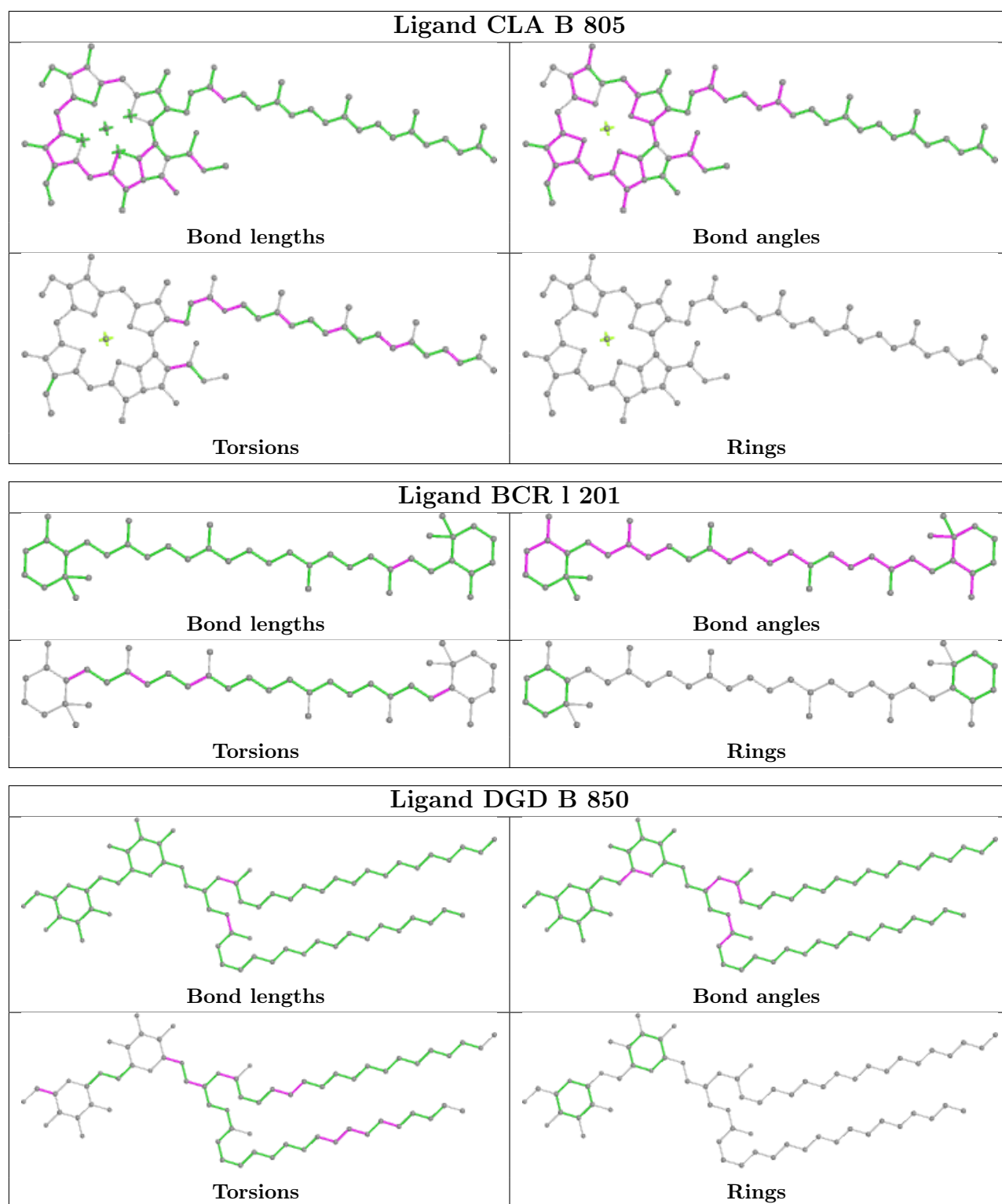


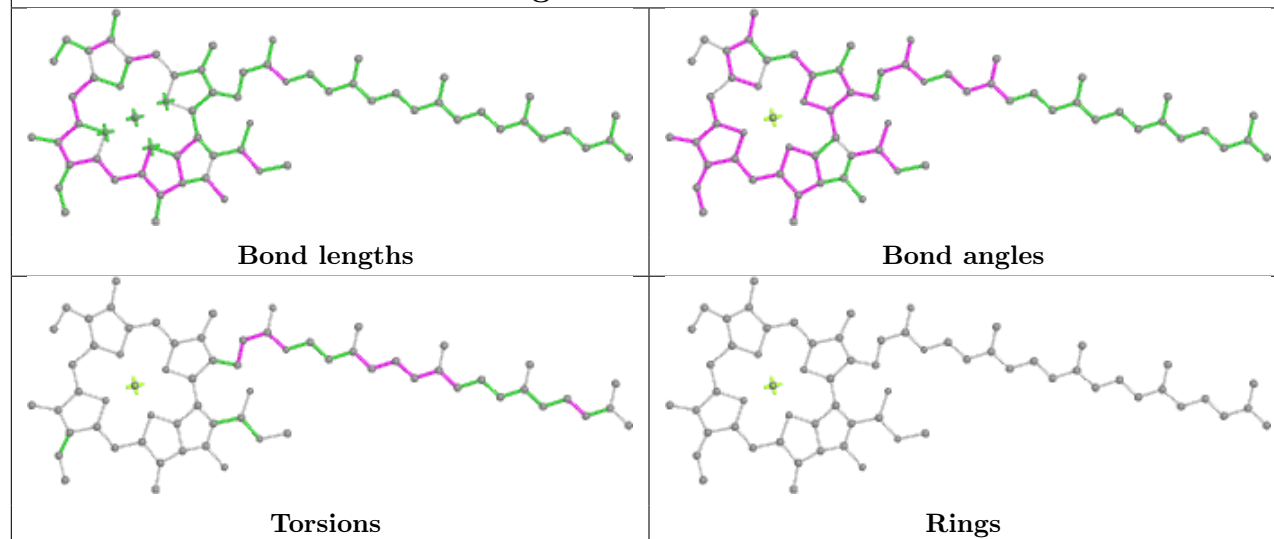
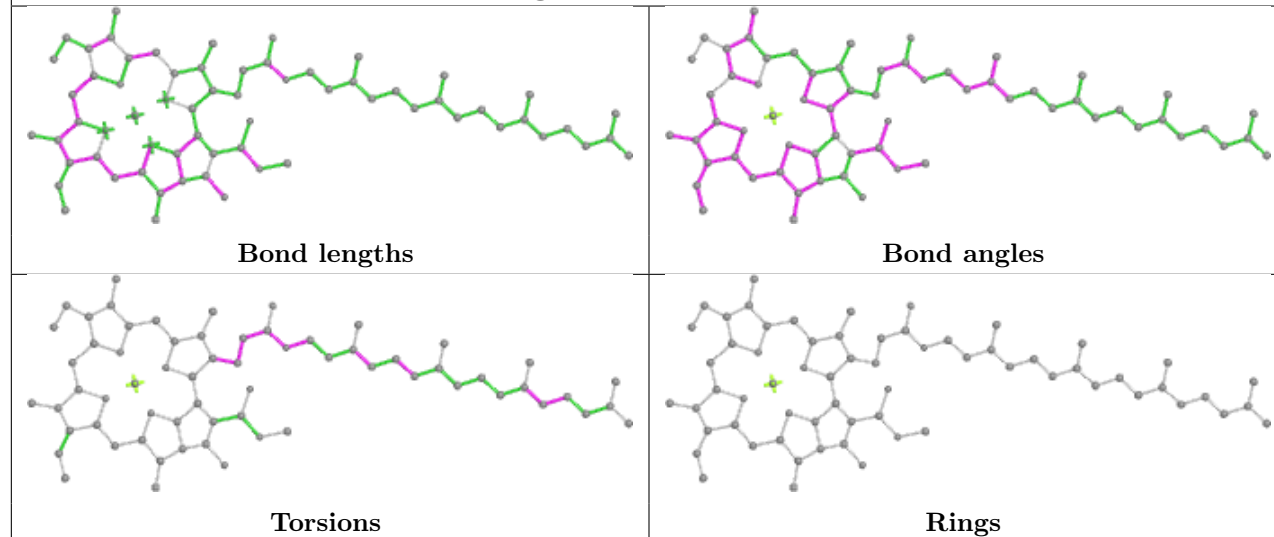
Ligand CLA 8 301



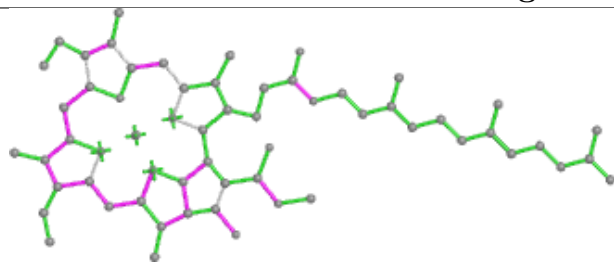
Ligand CLA g 103



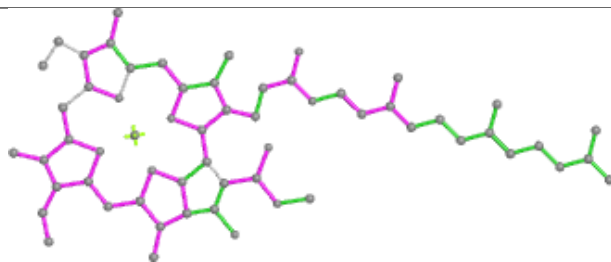


Ligand CLA B 807**Ligand CLA A 830**

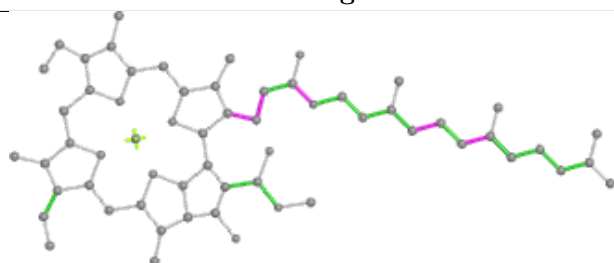
Ligand CLA 7 609



Bond lengths



Bond angles

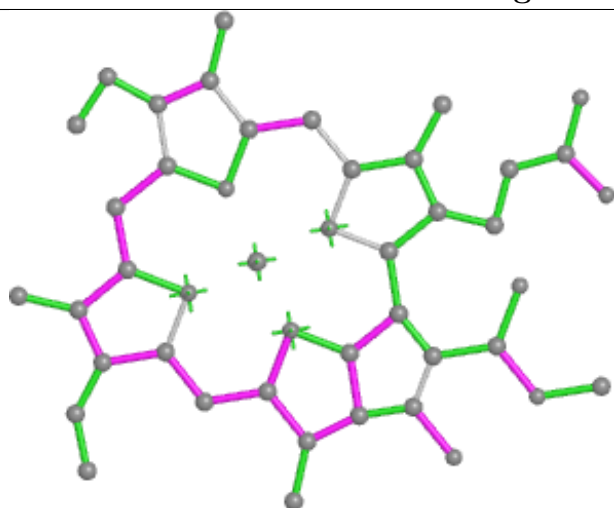


Torsions

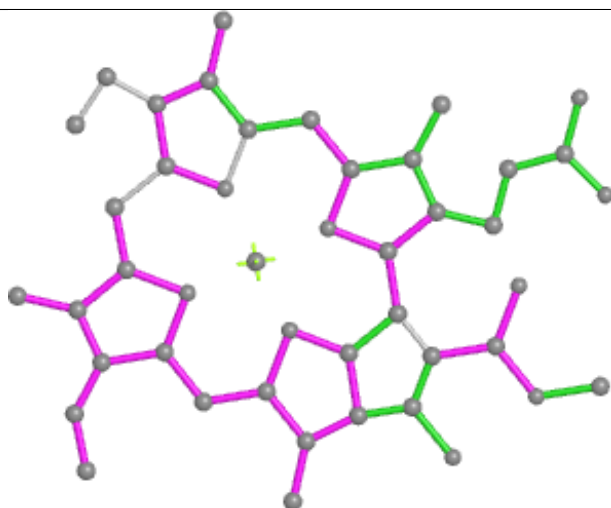


Rings

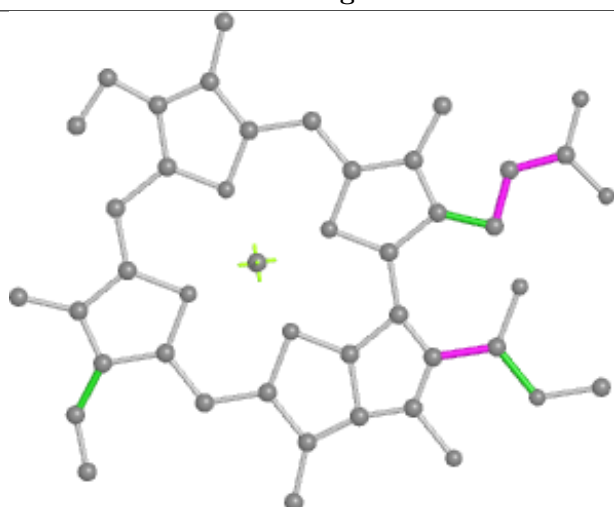
Ligand CLA A 837



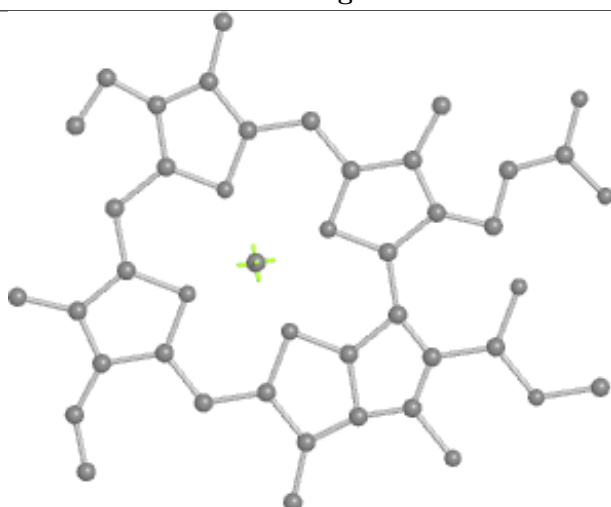
Bond lengths



Bond angles

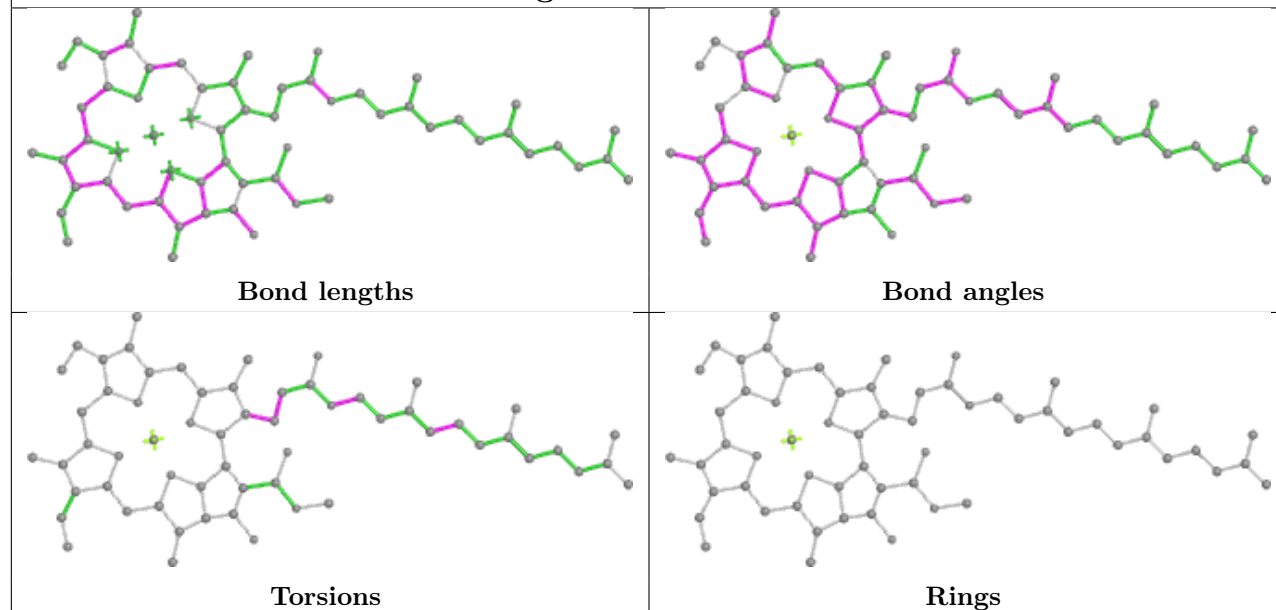


Torsions

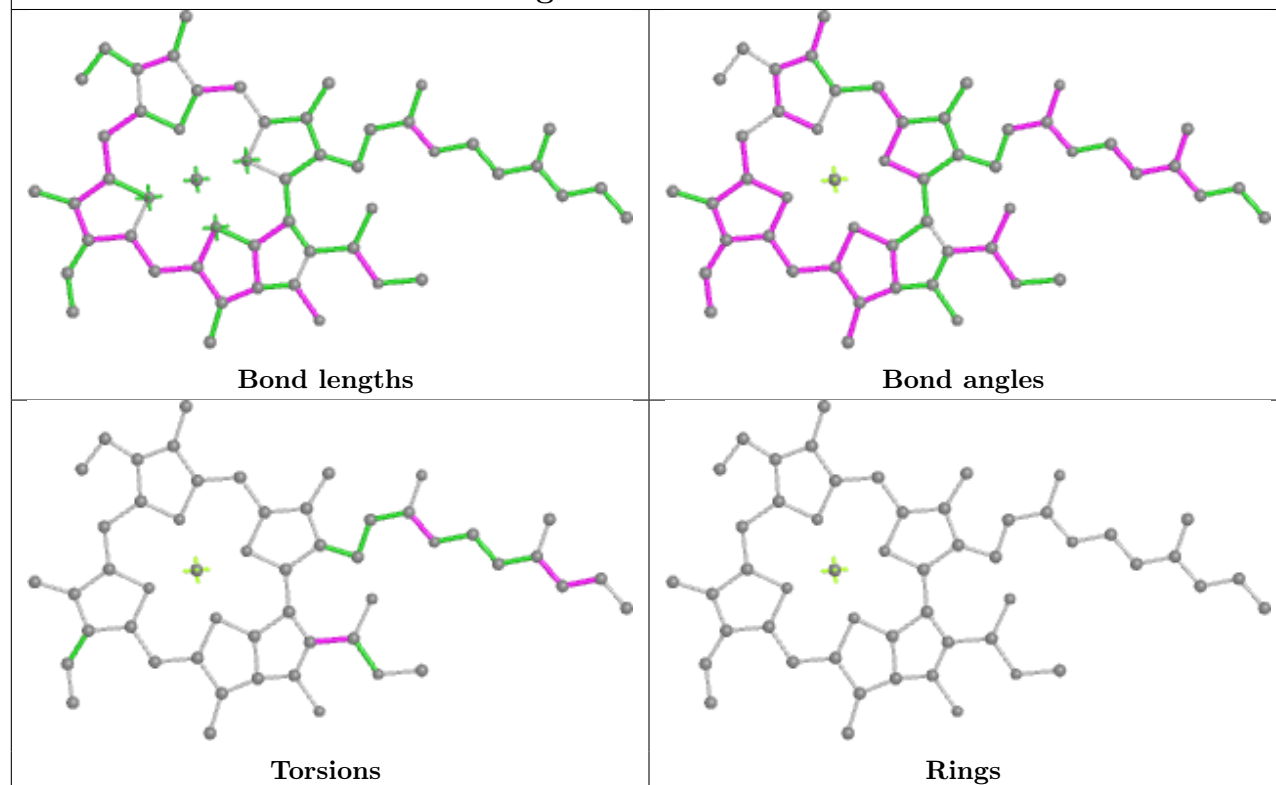


Rings

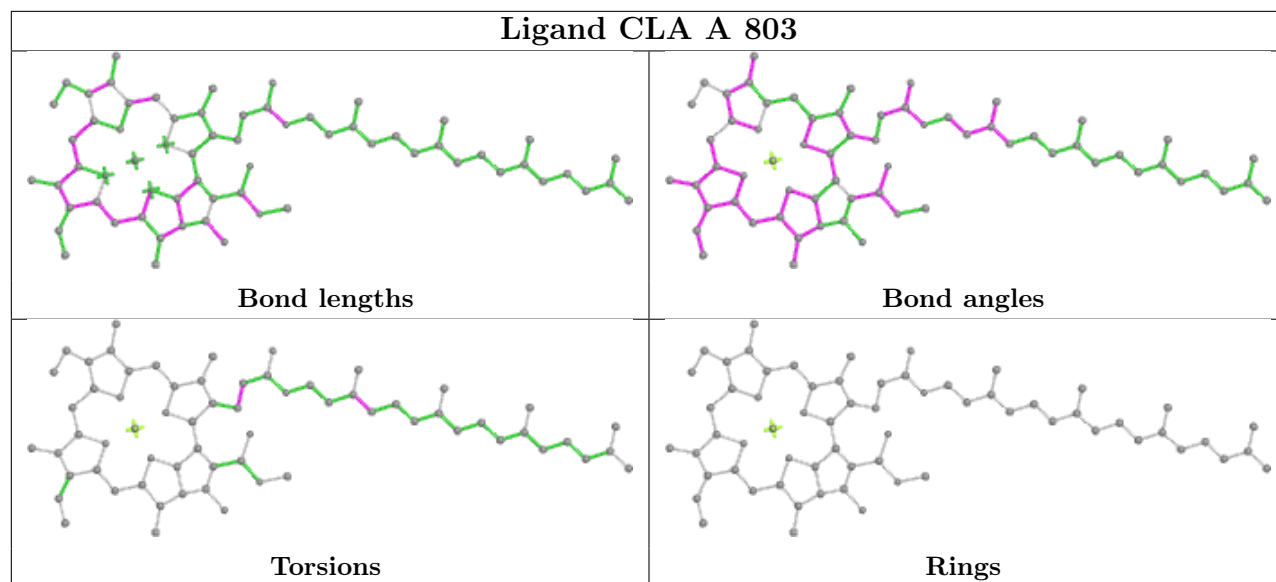
Ligand CLA 9 609



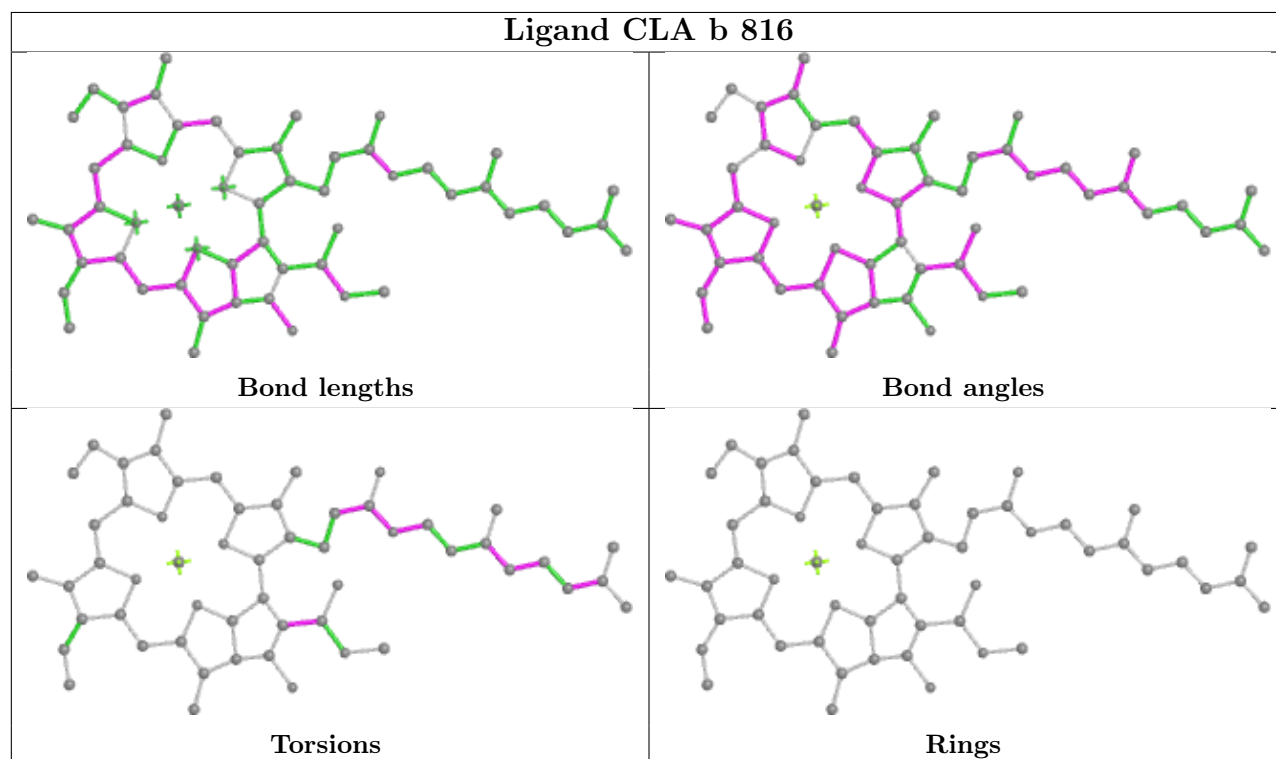
Ligand CLA 9 611



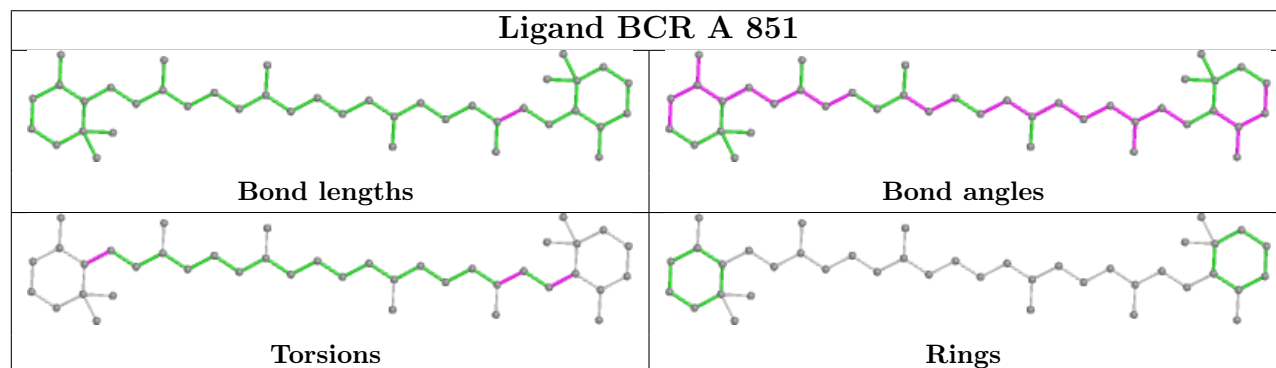
Ligand CLA A 803



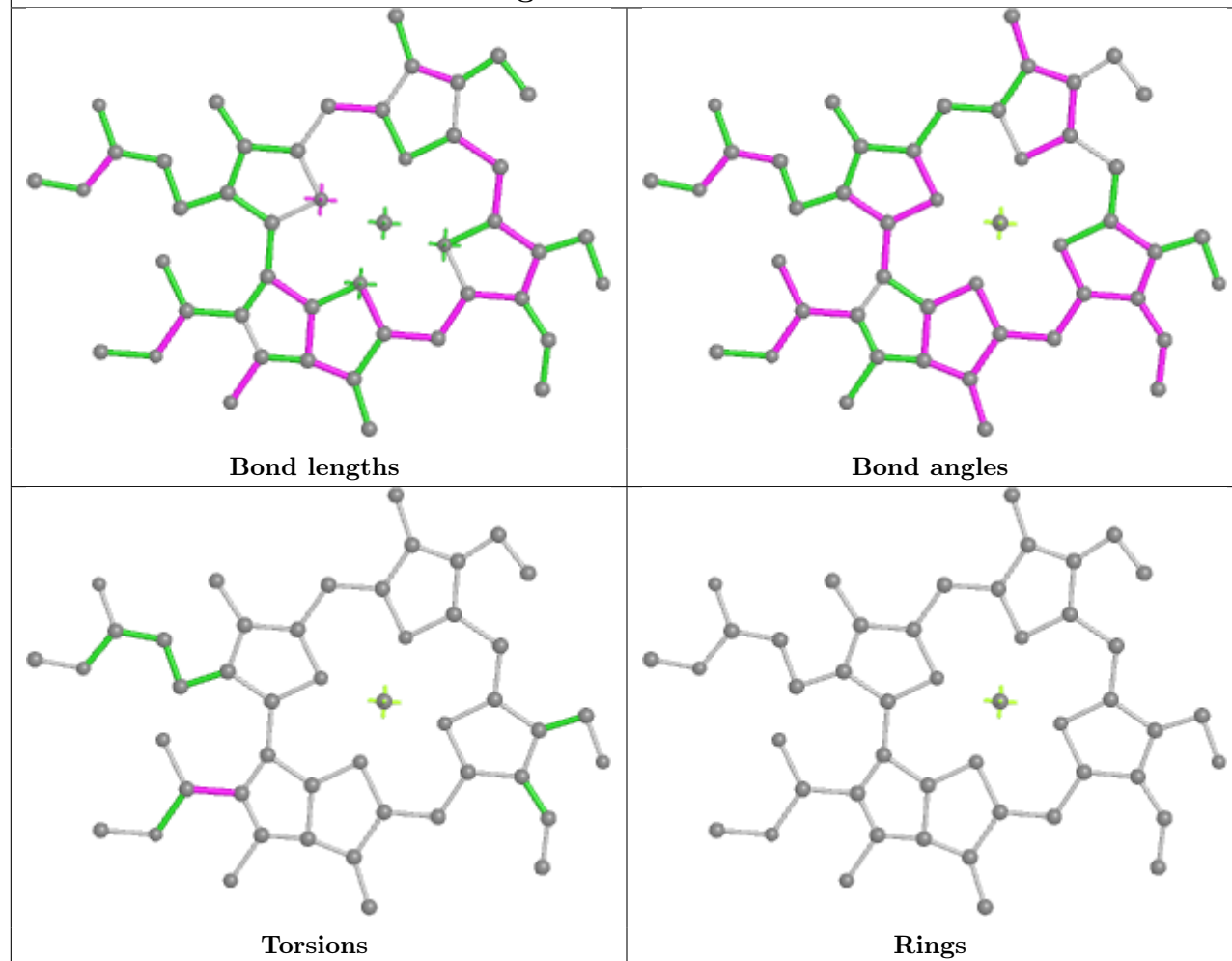
Ligand CLA b 816



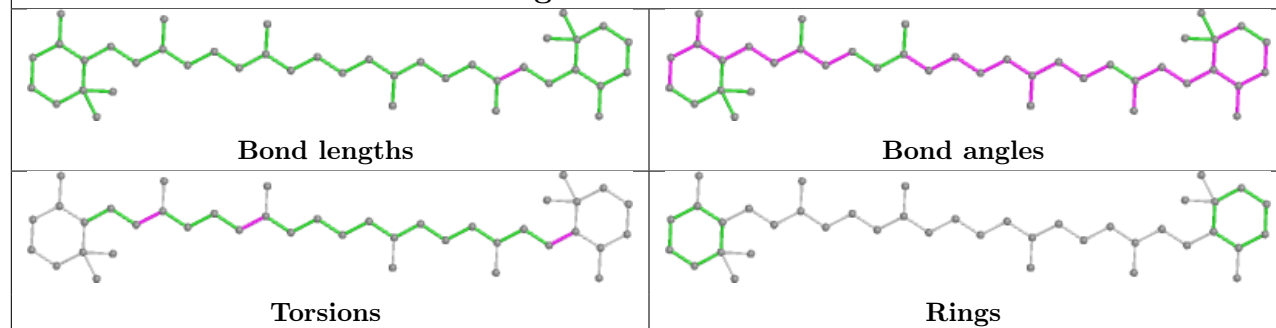
Ligand BCR A 851

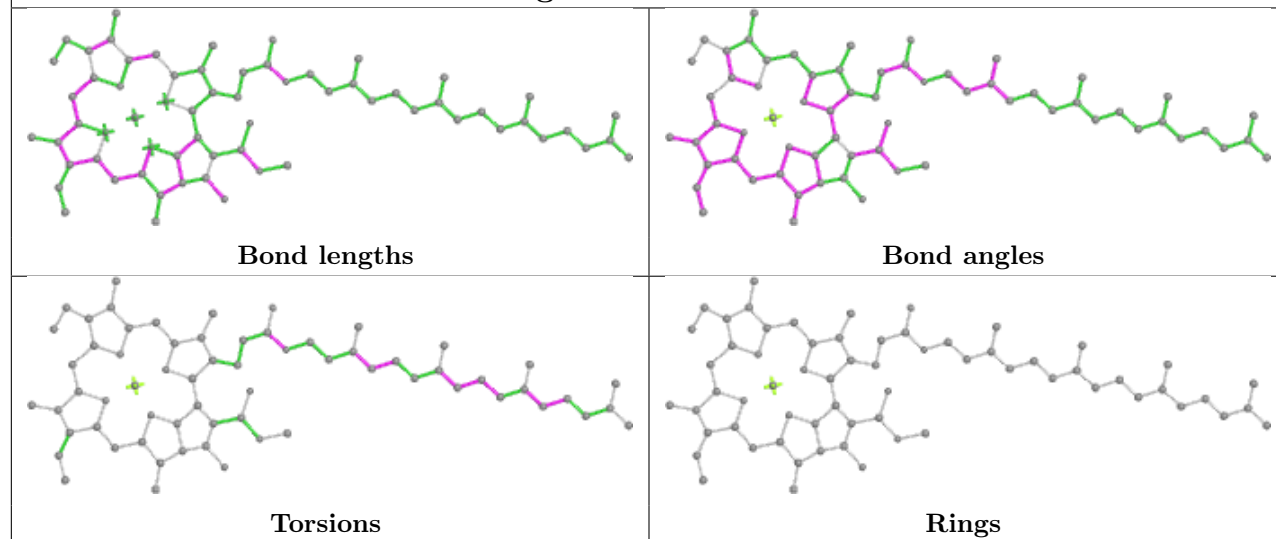
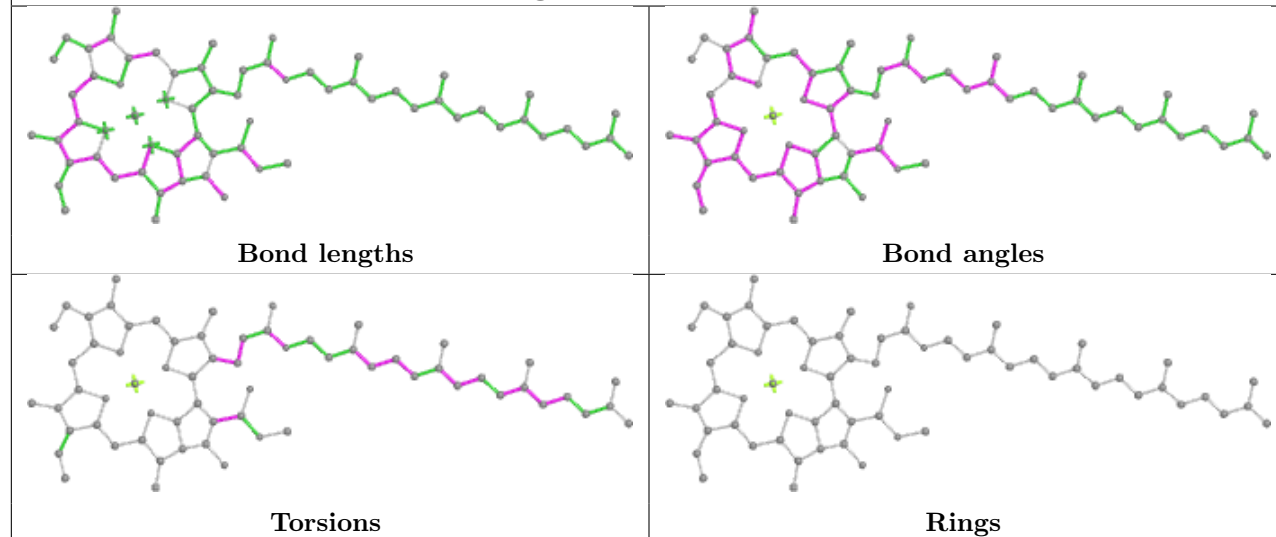


Ligand CHL 6 308

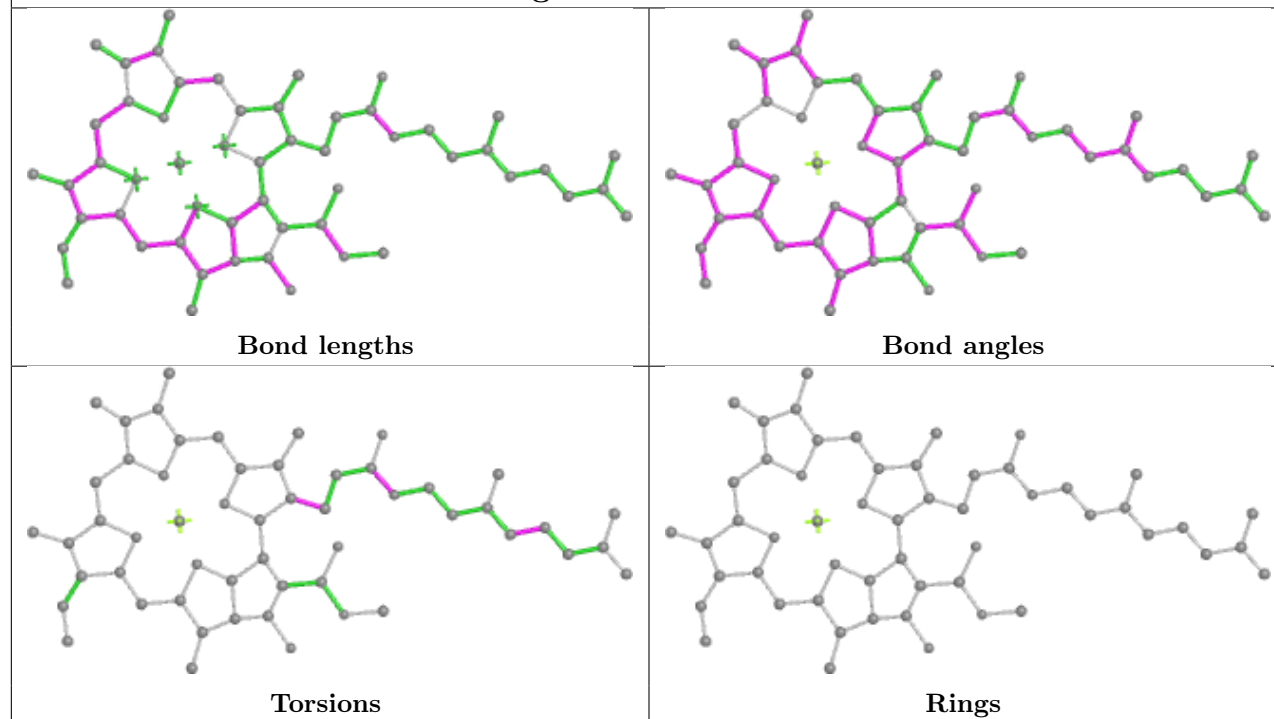


Ligand BCR 9 618

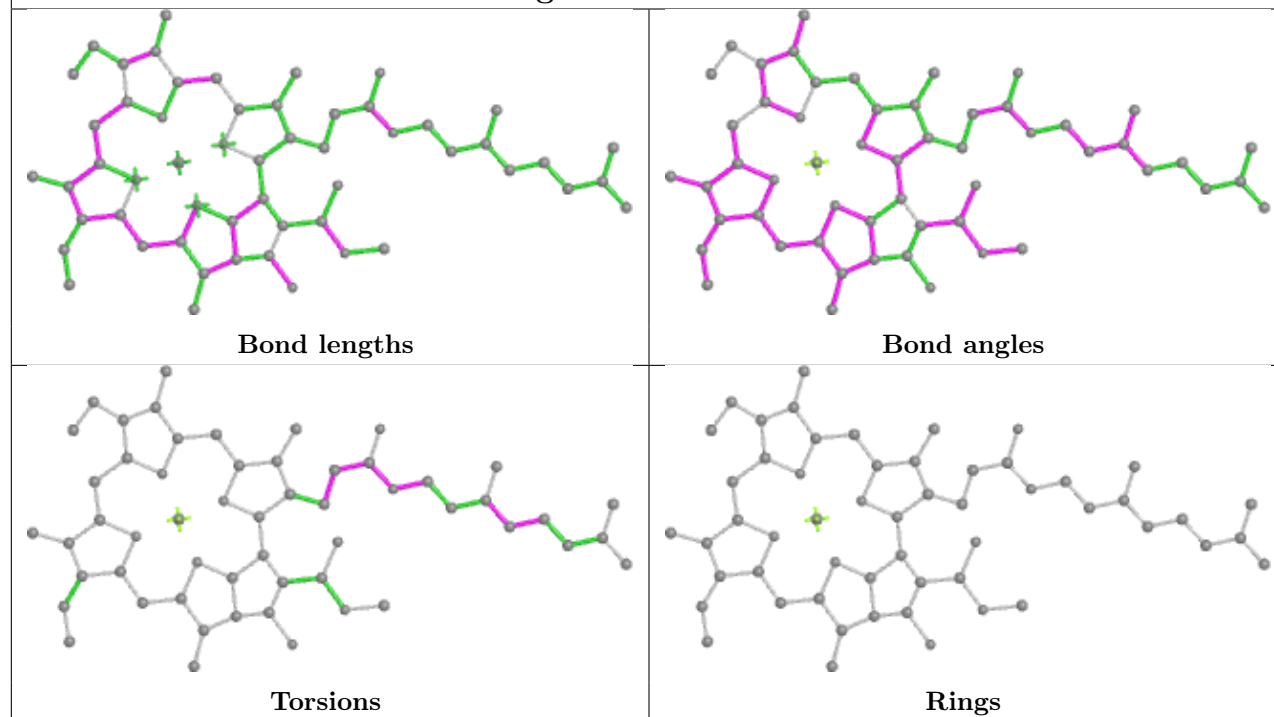


Ligand CLA a 839**Ligand CLA A 809**

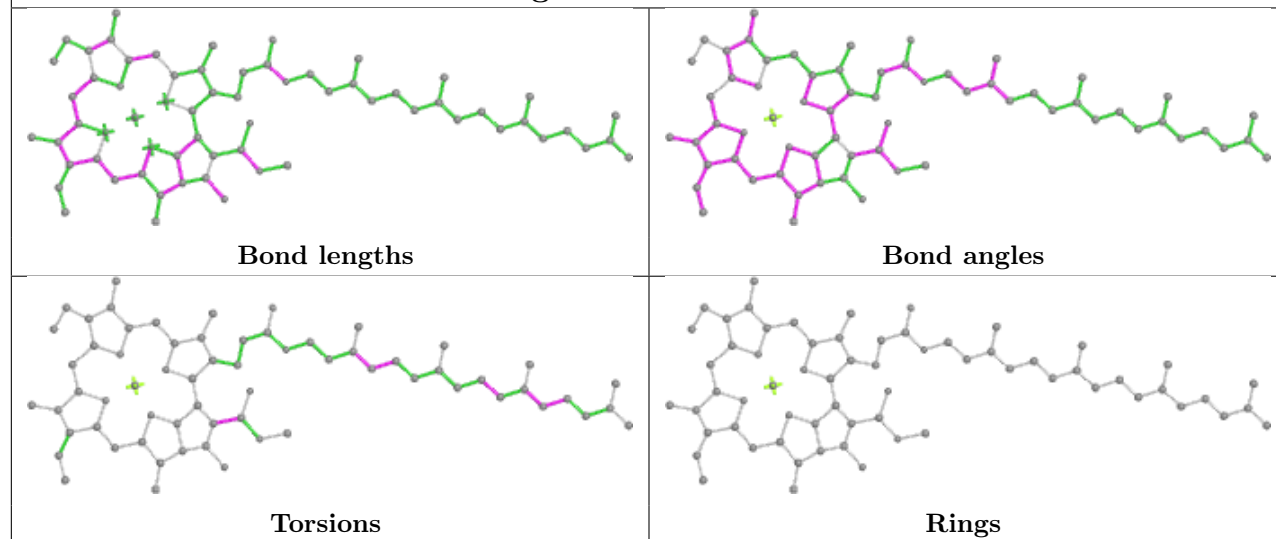
Ligand CLA B 811



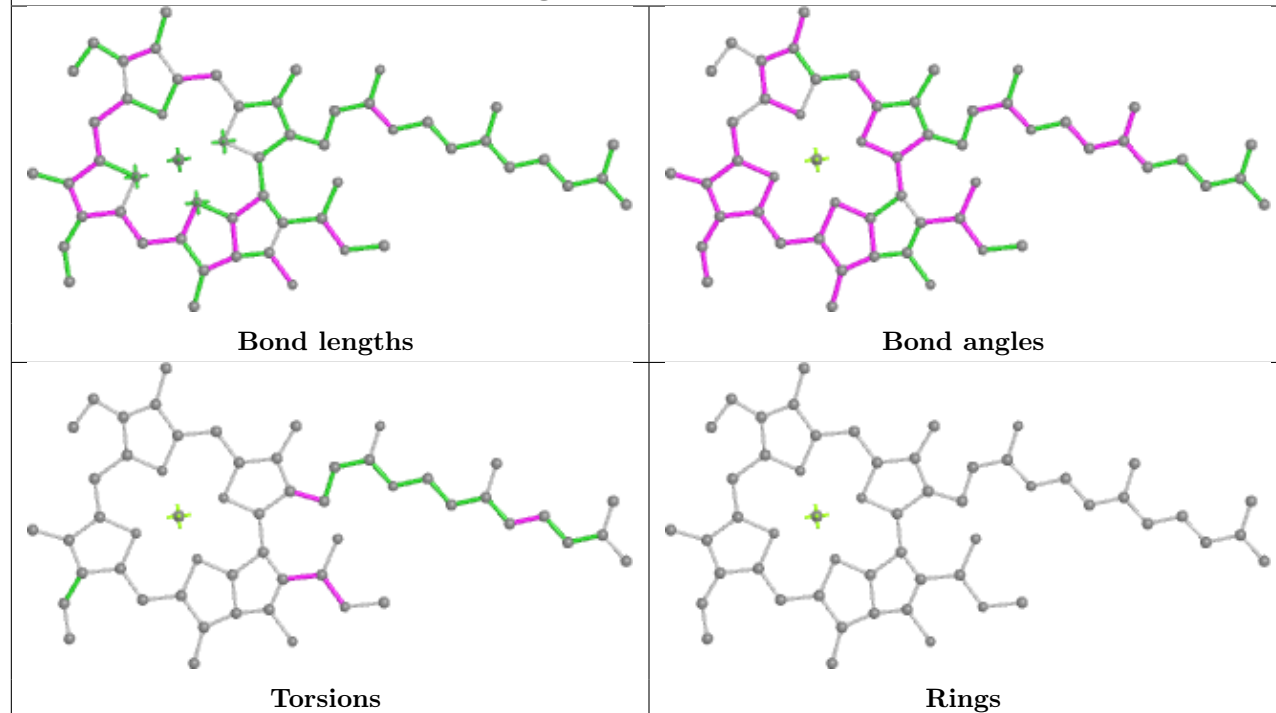
Ligand CLA 3 312

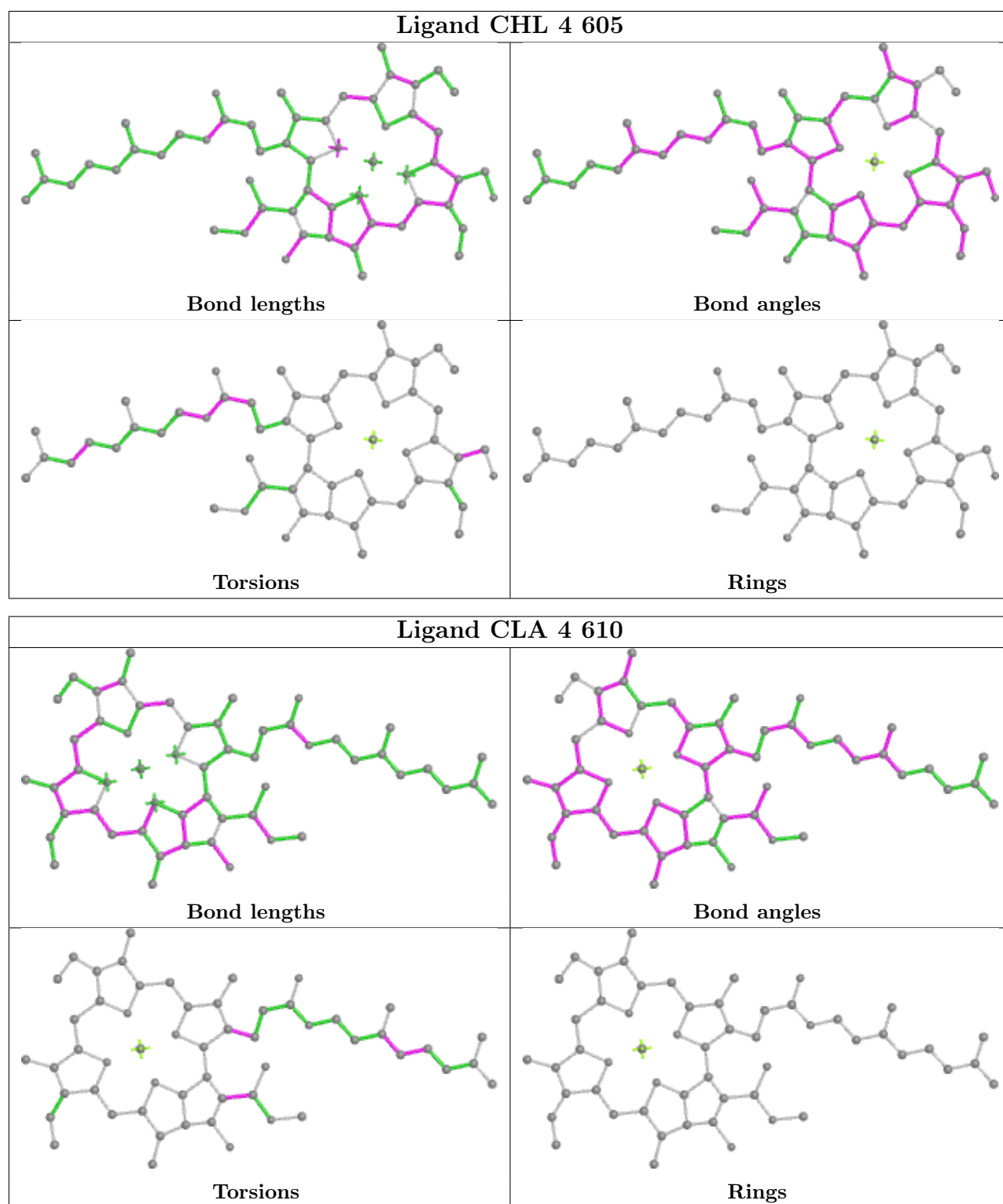


Ligand CLA A 808



Ligand CLA b 815





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å ²) | Q<0.9 |
|-----|-------|----------------|--------|---------------|-----------------------|-------|
| 1 | A | 742/742 (100%) | 0.17 | 32 (4%) 35 25 | 42, 58, 91, 169 | 0 |
| 1 | a | 742/742 (100%) | 0.10 | 31 (4%) 36 26 | 36, 48, 81, 140 | 0 |
| 2 | B | 733/733 (100%) | 0.34 | 66 (9%) 9 5 | 42, 56, 80, 121 | 0 |
| 2 | b | 733/733 (100%) | 0.24 | 49 (6%) 17 10 | 36, 55, 86, 139 | 0 |
| 3 | C | 80/80 (100%) | 0.15 | 5 (6%) 20 12 | 50, 62, 77, 96 | 0 |
| 3 | c | 80/80 (100%) | -0.18 | 0 100 100 | 44, 55, 72, 88 | 0 |
| 4 | D | 141/141 (100%) | 0.38 | 11 (7%) 13 7 | 53, 71, 103, 163 | 0 |
| 4 | d | 140/141 (99%) | 0.29 | 5 (3%) 42 32 | 45, 61, 92, 132 | 0 |
| 5 | E | 63/64 (98%) | 0.96 | 14 (22%) 0 0 | 51, 77, 115, 127 | 0 |
| 5 | e | 63/64 (98%) | -0.09 | 1 (1%) 72 66 | 51, 78, 96, 119 | 0 |
| 6 | F | 151/151 (100%) | 0.25 | 12 (7%) 12 7 | 50, 69, 98, 126 | 0 |
| 6 | f | 151/151 (100%) | 0.15 | 8 (5%) 26 17 | 49, 73, 101, 132 | 0 |
| 7 | G | 95/95 (100%) | 0.26 | 4 (4%) 36 26 | 60, 79, 103, 127 | 0 |
| 7 | g | 95/95 (100%) | 0.45 | 12 (12%) 3 2 | 62, 83, 123, 171 | 0 |
| 8 | H | 90/90 (100%) | 0.41 | 10 (11%) 5 3 | 61, 83, 116, 127 | 0 |
| 8 | h | 90/90 (100%) | -0.07 | 3 (3%) 46 36 | 51, 70, 100, 111 | 0 |
| 9 | I | 29/30 (96%) | -0.22 | 1 (3%) 45 35 | 53, 65, 87, 117 | 0 |
| 9 | i | 30/30 (100%) | -0.20 | 1 (3%) 46 36 | 48, 56, 80, 129 | 0 |
| 10 | J | 39/39 (100%) | 0.00 | 2 (5%) 28 19 | 51, 62, 97, 100 | 0 |
| 10 | j | 39/39 (100%) | 0.27 | 3 (7%) 13 7 | 48, 65, 94, 100 | 0 |
| 11 | K | 45/84 (53%) | 1.76 | 16 (35%) 0 0 | 92, 111, 131, 142 | 0 |
| 11 | k | 46/84 (54%) | 0.87 | 5 (10%) 5 3 | 68, 86, 126, 134 | 0 |
| 12 | L | 153/153 (100%) | 0.23 | 15 (9%) 7 4 | 56, 80, 120, 143 | 0 |
| 12 | l | 151/153 (98%) | -0.32 | 0 100 100 | 42, 60, 87, 119 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | OWAB(Å²) | Q<0.9 | |
|-----|-------|-----------------|--------|----------|----------|-------------------|---|
| 13 | 1 | 195/195 (100%) | 0.57 | 34 (17%) | 1 1 | 61, 87, 119, 136 | 0 |
| 13 | 6 | 195/195 (100%) | 0.60 | 30 (15%) | 2 1 | 74, 114, 164, 176 | 0 |
| 14 | 2 | 206/206 (100%) | 1.23 | 57 (27%) | 0 0 | 67, 97, 133, 188 | 0 |
| 14 | 7 | 206/206 (100%) | 0.63 | 30 (14%) | 2 1 | 61, 89, 122, 158 | 0 |
| 15 | 3 | 218/218 (100%) | 0.81 | 38 (17%) | 1 1 | 62, 96, 133, 154 | 0 |
| 15 | 8 | 217/218 (99%) | 0.38 | 24 (11%) | 5 3 | 56, 81, 112, 142 | 0 |
| 16 | 4 | 196/196 (100%) | 0.83 | 41 (20%) | 1 0 | 61, 85, 115, 160 | 0 |
| 16 | 9 | 196/196 (100%) | 0.46 | 22 (11%) | 5 3 | 65, 97, 134, 155 | 0 |
| All | All | 6350/6434 (98%) | 0.34 | 582 (9%) | 9 5 | 36, 68, 116, 188 | 0 |

The worst 5 of 582 RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|-----|------|------|
| 15 | 3 | 259 | ASN | 8.7 |
| 9 | i | 2 | ILE | 8.2 |
| 5 | E | 2 | GLY | 7.1 |
| 15 | 8 | 121 | LEU | 7.1 |
| 14 | 2 | 121 | ILE | 6.7 |

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(Å ²) | Q<0.9 |
|-----|------|-------|------|-------|------|------|----------------------------|-------|
| 20 | BCR | L | 206 | 40/40 | 0.48 | 0.79 | 146,151,156,156 | 0 |
| 20 | BCR | K | 4004 | 40/40 | 0.49 | 0.62 | 94,115,138,138 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 20 | BCR | K | 4001 | 40/40 | 0.59 | 0.41 | 91,94,96,96 | 0 |
| 17 | CLA | 8 | 309 | 52/65 | 0.60 | 0.51 | 155,164,169,259 | 0 |
| 20 | BCR | 2 | 617 | 40/40 | 0.67 | 0.77 | 125,133,163,164 | 0 |
| 27 | LUT | 6 | 317 | 42/42 | 0.67 | 0.43 | 86,93,118,120 | 0 |
| 25 | LMG | 4 | 620 | 44/55 | 0.69 | 0.42 | 89,97,111,113 | 0 |
| 20 | BCR | 7 | 617 | 40/40 | 0.69 | 0.63 | 112,119,127,128 | 0 |
| 19 | LHG | a | 848 | 27/49 | 0.73 | 0.33 | 74,95,125,127 | 0 |
| 25 | LMG | 6 | 302 | 40/55 | 0.75 | 0.34 | 116,148,163,164 | 0 |
| 27 | LUT | 6 | 321 | 42/42 | 0.75 | 0.49 | 107,113,133,134 | 0 |
| 17 | CLA | K | 4002 | 45/65 | 0.76 | 0.46 | 115,123,125,154 | 0 |
| 20 | BCR | l | 206 | 40/40 | 0.77 | 0.52 | 77,82,93,93 | 0 |
| 20 | BCR | 1 | 318 | 40/40 | 0.77 | 0.50 | 94,105,126,127 | 0 |
| 19 | LHG | 3 | 319 | 20/49 | 0.79 | 0.50 | 152,157,193,194 | 0 |
| 17 | CLA | 3 | 301 | 46/65 | 0.80 | 0.78 | 142,149,154,175 | 0 |
| 23 | LMT | B | 849 | 35/35 | 0.80 | 0.33 | 80,97,102,103 | 0 |
| 24 | DGD | B | 850 | 66/66 | 0.80 | 0.33 | 52,71,93,102 | 0 |
| 25 | LMG | 4 | 619 | 44/55 | 0.80 | 0.35 | 82,92,103,104 | 0 |
| 20 | BCR | A | 856 | 40/40 | 0.81 | 0.25 | 65,71,85,85 | 0 |
| 20 | BCR | 6 | 319 | 40/40 | 0.82 | 0.47 | 104,124,138,140 | 0 |
| 17 | CLA | 3 | 310 | 37/65 | 0.82 | 0.63 | 179,186,191,221 | 0 |
| 17 | CLA | 6 | 316 | 46/65 | 0.82 | 0.30 | 152,162,171,203 | 0 |
| 17 | CLA | K | 4003 | 46/65 | 0.83 | 0.29 | 81,119,128,130 | 0 |
| 17 | CLA | 8 | 313 | 25/65 | 0.83 | 0.28 | 102,110,116,146 | 0 |
| 20 | BCR | b | 844 | 40/40 | 0.83 | 0.32 | 52,67,91,93 | 0 |
| 19 | LHG | A | 847 | 27/49 | 0.83 | 0.26 | 68,88,113,113 | 0 |
| 25 | LMG | G | 102 | 44/55 | 0.83 | 0.21 | 72,95,110,113 | 0 |
| 17 | CLA | L | 202 | 65/65 | 0.84 | 0.37 | 83,111,131,132 | 0 |
| 20 | BCR | A | 850 | 40/40 | 0.84 | 0.30 | 53,72,112,112 | 0 |
| 25 | LMG | 9 | 619 | 50/55 | 0.84 | 0.29 | 68,88,96,98 | 0 |
| 17 | CLA | A | 824 | 51/65 | 0.84 | 0.38 | 77,89,118,118 | 0 |
| 22 | HTG | F | 302 | 19/19 | 0.84 | 0.31 | 43,98,105,107 | 0 |
| 22 | HTG | J | 3001 | 19/19 | 0.85 | 0.19 | 73,76,78,82 | 0 |
| 17 | CLA | A | 845 | 52/65 | 0.85 | 0.41 | 90,115,146,149 | 0 |
| 17 | CLA | k | 1403 | 46/65 | 0.85 | 0.21 | 89,95,103,110 | 0 |
| 27 | LUT | 4 | 616 | 42/42 | 0.85 | 0.31 | 71,90,94,95 | 0 |
| 20 | BCR | 4 | 618 | 40/40 | 0.85 | 0.30 | 79,86,89,90 | 0 |
| 20 | BCR | G | 105 | 40/40 | 0.85 | 0.30 | 63,71,83,83 | 0 |
| 28 | XAT | 9 | 617 | 44/44 | 0.85 | 0.23 | 72,81,97,98 | 0 |
| 20 | BCR | g | 104 | 40/40 | 0.86 | 0.40 | 57,102,117,118 | 0 |
| 22 | HTG | f | 7001 | 19/19 | 0.86 | 0.33 | 49,104,107,108 | 0 |
| 17 | CLA | g | 101 | 41/65 | 0.86 | 0.21 | 146,164,166,167 | 0 |
| 26 | CHL | 2 | 605 | 43/66 | 0.86 | 0.27 | 77,89,100,106 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 26 | CHL | 2 | 606 | 48/66 | 0.86 | 0.46 | 89,97,105,107 | 0 |
| 17 | CLA | A | 837 | 45/65 | 0.86 | 0.28 | 84,95,103,165 | 0 |
| 24 | DGD | b | 849 | 66/66 | 0.86 | 0.27 | 41,64,90,91 | 0 |
| 20 | BCR | a | 852 | 40/40 | 0.86 | 0.33 | 40,62,120,120 | 0 |
| 17 | CLA | 1 | 309 | 65/65 | 0.86 | 0.25 | 71,79,106,108 | 0 |
| 17 | CLA | 3 | 313 | 45/65 | 0.87 | 0.41 | 85,97,102,106 | 0 |
| 20 | BCR | B | 844 | 40/40 | 0.87 | 0.28 | 50,53,85,87 | 0 |
| 20 | BCR | k | 1404 | 40/40 | 0.87 | 0.26 | 49,89,103,104 | 0 |
| 17 | CLA | 7 | 604 | 60/65 | 0.87 | 0.34 | 92,101,106,109 | 0 |
| 26 | CHL | 7 | 605 | 43/66 | 0.87 | 0.27 | 85,89,93,99 | 0 |
| 26 | CHL | 9 | 615 | 43/66 | 0.87 | 0.34 | 90,144,147,148 | 0 |
| 27 | LUT | 1 | 320 | 42/42 | 0.87 | 0.22 | 71,79,90,91 | 0 |
| 17 | CLA | 3 | 315 | 25/65 | 0.87 | 0.26 | 112,115,121,157 | 0 |
| 20 | BCR | a | 849 | 40/40 | 0.87 | 0.25 | 56,63,75,76 | 0 |
| 20 | BCR | 8 | 316 | 40/40 | 0.87 | 0.36 | 66,71,88,90 | 0 |
| 27 | LUT | 7 | 615 | 42/42 | 0.87 | 0.47 | 72,83,97,98 | 0 |
| 28 | XAT | 3 | 317 | 44/44 | 0.87 | 0.26 | 61,74,100,101 | 0 |
| 17 | CLA | l | 202 | 65/65 | 0.87 | 0.40 | 57,88,111,113 | 0 |
| 20 | BCR | j | 3004 | 40/40 | 0.88 | 0.24 | 56,71,82,84 | 0 |
| 17 | CLA | 2 | 604 | 60/65 | 0.88 | 0.35 | 100,111,118,119 | 0 |
| 17 | CLA | 6 | 313 | 52/65 | 0.88 | 0.24 | 83,94,119,120 | 0 |
| 17 | CLA | 2 | 609 | 60/65 | 0.88 | 0.23 | 73,87,98,101 | 0 |
| 17 | CLA | 2 | 613 | 43/65 | 0.88 | 0.23 | 80,88,94,95 | 0 |
| 26 | CHL | 2 | 614 | 43/66 | 0.88 | 0.33 | 116,134,143,145 | 0 |
| 17 | CLA | a | 846 | 52/65 | 0.88 | 0.32 | 86,102,115,140 | 0 |
| 17 | CLA | b | 811 | 54/65 | 0.88 | 0.29 | 50,74,114,114 | 0 |
| 17 | CLA | b | 824 | 65/65 | 0.88 | 0.28 | 45,51,69,72 | 0 |
| 17 | CLA | b | 841 | 65/65 | 0.88 | 0.20 | 64,80,92,94 | 0 |
| 17 | CLA | B | 821 | 46/65 | 0.88 | 0.23 | 51,60,72,80 | 0 |
| 17 | CLA | k | 1401 | 45/65 | 0.88 | 0.34 | 75,83,94,96 | 0 |
| 20 | BCR | A | 851 | 40/40 | 0.88 | 0.28 | 43,66,78,79 | 0 |
| 20 | BCR | b | 845 | 40/40 | 0.88 | 0.24 | 46,67,106,106 | 0 |
| 17 | CLA | 3 | 302 | 60/65 | 0.88 | 0.20 | 67,79,85,95 | 0 |
| 17 | CLA | 1 | 314 | 55/65 | 0.89 | 0.23 | 78,93,105,110 | 0 |
| 17 | CLA | A | 832 | 50/65 | 0.89 | 0.24 | 52,70,98,99 | 0 |
| 17 | CLA | 3 | 311 | 52/65 | 0.89 | 0.40 | 129,142,154,157 | 0 |
| 17 | CLA | 8 | 311 | 45/65 | 0.89 | 0.34 | 100,110,122,161 | 0 |
| 17 | CLA | B | 815 | 60/65 | 0.89 | 0.22 | 60,72,100,102 | 0 |
| 17 | CLA | 9 | 604 | 50/65 | 0.89 | 0.23 | 105,116,125,126 | 0 |
| 17 | CLA | A | 823 | 49/65 | 0.89 | 0.25 | 66,79,104,105 | 0 |
| 17 | CLA | 4 | 609 | 60/65 | 0.89 | 0.31 | 69,86,106,111 | 0 |
| 17 | CLA | 4 | 610 | 55/65 | 0.89 | 0.28 | 72,88,94,122 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 19 | LHG | 6 | 320 | 49/49 | 0.89 | 0.32 | 90,100,111,113 | 0 |
| 20 | BCR | A | 848 | 40/40 | 0.89 | 0.32 | 50,59,95,95 | 0 |
| 17 | CLA | 6 | 305 | 65/65 | 0.89 | 0.23 | 83,87,104,110 | 0 |
| 27 | LUT | 9 | 616 | 42/42 | 0.89 | 0.38 | 68,79,103,104 | 0 |
| 17 | CLA | 6 | 310 | 65/65 | 0.89 | 0.25 | 80,90,121,126 | 0 |
| 28 | XAT | 7 | 616 | 44/44 | 0.89 | 0.33 | 57,64,73,74 | 0 |
| 17 | CLA | B | 829 | 65/65 | 0.89 | 0.26 | 42,50,76,77 | 0 |
| 20 | BCR | B | 845 | 40/40 | 0.90 | 0.18 | 47,63,102,102 | 0 |
| 20 | BCR | B | 847 | 40/40 | 0.90 | 0.31 | 44,49,52,53 | 0 |
| 17 | CLA | 4 | 604 | 50/65 | 0.90 | 0.30 | 75,84,111,114 | 0 |
| 17 | CLA | B | 811 | 54/65 | 0.90 | 0.21 | 58,74,103,104 | 0 |
| 17 | CLA | 2 | 610 | 41/65 | 0.90 | 0.21 | 80,94,108,110 | 0 |
| 17 | CLA | 2 | 612 | 65/65 | 0.90 | 0.32 | 70,93,113,118 | 0 |
| 17 | CLA | A | 834 | 65/65 | 0.90 | 0.24 | 49,60,71,75 | 0 |
| 17 | CLA | b | 814 | 65/65 | 0.90 | 0.19 | 47,55,69,71 | 0 |
| 17 | CLA | A | 812 | 65/65 | 0.90 | 0.21 | 49,63,74,82 | 0 |
| 17 | CLA | b | 830 | 50/65 | 0.90 | 0.21 | 46,59,70,74 | 0 |
| 17 | CLA | 9 | 611 | 52/65 | 0.90 | 0.37 | 76,89,102,103 | 0 |
| 17 | CLA | 1 | 303 | 65/65 | 0.90 | 0.24 | 60,67,83,90 | 0 |
| 26 | CHL | 4 | 606 | 51/66 | 0.90 | 0.22 | 71,81,109,110 | 0 |
| 19 | LHG | 1 | 319 | 49/49 | 0.90 | 0.27 | 77,84,109,109 | 0 |
| 26 | CHL | 7 | 606 | 48/66 | 0.90 | 0.29 | 71,87,104,105 | 0 |
| 17 | CLA | 3 | 304 | 45/65 | 0.90 | 0.21 | 109,122,133,162 | 0 |
| 17 | CLA | g | 103 | 46/65 | 0.90 | 0.28 | 87,99,103,116 | 0 |
| 27 | LUT | 2 | 615 | 42/42 | 0.90 | 0.27 | 77,84,89,89 | 0 |
| 17 | CLA | A | 805 | 55/65 | 0.90 | 0.23 | 45,54,89,89 | 0 |
| 19 | LHG | 7 | 618 | 37/49 | 0.90 | 0.25 | 83,95,102,104 | 0 |
| 17 | CLA | k | 1402 | 46/65 | 0.90 | 0.26 | 62,78,100,106 | 0 |
| 17 | CLA | 1 | 310 | 60/65 | 0.90 | 0.25 | 63,80,90,92 | 0 |
| 17 | CLA | B | 834 | 65/65 | 0.90 | 0.21 | 46,58,90,90 | 0 |
| 20 | BCR | 9 | 618 | 40/40 | 0.90 | 0.30 | 86,92,100,101 | 0 |
| 17 | CLA | F | 304 | 55/65 | 0.90 | 0.21 | 52,69,95,95 | 0 |
| 28 | XAT | 8 | 315 | 44/44 | 0.90 | 0.23 | 64,69,80,83 | 0 |
| 17 | CLA | 6 | 309 | 46/65 | 0.90 | 0.30 | 92,99,106,137 | 0 |
| 17 | CLA | b | 807 | 65/65 | 0.91 | 0.22 | 42,51,102,104 | 0 |
| 17 | CLA | B | 814 | 65/65 | 0.91 | 0.20 | 50,57,80,82 | 0 |
| 17 | CLA | b | 812 | 55/65 | 0.91 | 0.22 | 59,70,103,104 | 0 |
| 17 | CLA | 9 | 609 | 60/65 | 0.91 | 0.37 | 72,93,107,108 | 0 |
| 17 | CLA | 1 | 305 | 52/65 | 0.91 | 0.23 | 76,101,105,108 | 0 |
| 17 | CLA | 9 | 612 | 56/65 | 0.91 | 0.24 | 68,77,89,92 | 0 |
| 17 | CLA | 9 | 613 | 45/65 | 0.91 | 0.20 | 87,105,115,137 | 0 |
| 17 | CLA | b | 820 | 50/65 | 0.91 | 0.21 | 65,72,77,82 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 17 | CLA | A | 806 | 65/65 | 0.91 | 0.29 | 46,51,59,59 | 0 |
| 17 | CLA | 3 | 309 | 50/65 | 0.91 | 0.23 | 76,95,104,107 | 0 |
| 17 | CLA | b | 831 | 49/65 | 0.91 | 0.23 | 51,55,71,71 | 0 |
| 17 | CLA | B | 817 | 59/65 | 0.91 | 0.22 | 46,53,59,64 | 0 |
| 17 | CLA | G | 103 | 50/65 | 0.91 | 0.23 | 61,80,91,93 | 0 |
| 17 | CLA | J | 3002 | 42/65 | 0.91 | 0.18 | 92,105,119,148 | 0 |
| 17 | CLA | j | 3002 | 42/65 | 0.91 | 0.15 | 91,94,96,97 | 0 |
| 17 | CLA | 2 | 608 | 50/65 | 0.91 | 0.18 | 65,69,108,111 | 0 |
| 17 | CLA | B | 818 | 60/65 | 0.91 | 0.26 | 45,50,57,61 | 0 |
| 20 | BCR | B | 843 | 40/40 | 0.91 | 0.23 | 54,64,72,72 | 0 |
| 26 | CHL | 1 | 307 | 48/66 | 0.91 | 0.19 | 75,95,109,110 | 0 |
| 17 | CLA | B | 813 | 65/65 | 0.91 | 0.23 | 47,51,54,55 | 0 |
| 17 | CLA | B | 824 | 65/65 | 0.91 | 0.27 | 48,53,70,74 | 0 |
| 20 | BCR | B | 846 | 40/40 | 0.91 | 0.23 | 49,53,70,70 | 0 |
| 26 | CHL | 4 | 605 | 56/66 | 0.91 | 0.26 | 69,88,96,102 | 0 |
| 17 | CLA | 4 | 611 | 52/65 | 0.91 | 0.28 | 71,88,123,125 | 0 |
| 17 | CLA | 6 | 307 | 42/65 | 0.91 | 0.27 | 112,126,137,139 | 0 |
| 20 | BCR | I | 101 | 40/40 | 0.91 | 0.23 | 54,60,65,65 | 0 |
| 17 | CLA | 4 | 612 | 56/65 | 0.91 | 0.19 | 63,78,87,88 | 0 |
| 17 | CLA | 4 | 613 | 45/65 | 0.91 | 0.25 | 92,103,108,160 | 0 |
| 17 | CLA | 6 | 311 | 60/65 | 0.91 | 0.46 | 81,99,115,116 | 0 |
| 17 | CLA | a | 804 | 65/65 | 0.91 | 0.21 | 36,52,71,73 | 0 |
| 17 | CLA | a | 824 | 51/65 | 0.91 | 0.23 | 61,74,91,93 | 0 |
| 17 | CLA | 7 | 602 | 65/65 | 0.91 | 0.20 | 62,70,88,93 | 0 |
| 17 | CLA | a | 836 | 50/65 | 0.91 | 0.17 | 42,54,73,74 | 0 |
| 17 | CLA | 7 | 608 | 50/65 | 0.91 | 0.20 | 60,65,93,96 | 0 |
| 17 | CLA | 7 | 611 | 52/65 | 0.91 | 0.33 | 87,104,123,126 | 0 |
| 17 | CLA | 8 | 308 | 50/65 | 0.91 | 0.33 | 75,81,87,88 | 0 |
| 20 | BCR | b | 847 | 40/40 | 0.91 | 0.24 | 40,49,69,70 | 0 |
| 17 | CLA | L | 203 | 65/65 | 0.91 | 0.23 | 64,74,87,89 | 0 |
| 20 | BCR | b | 846 | 40/40 | 0.92 | 0.22 | 48,56,76,77 | 0 |
| 17 | CLA | A | 827 | 65/65 | 0.92 | 0.27 | 40,60,97,98 | 0 |
| 17 | CLA | 8 | 310 | 55/65 | 0.92 | 0.33 | 74,88,99,104 | 0 |
| 20 | BCR | j | 3003 | 40/40 | 0.92 | 0.22 | 42,52,59,61 | 0 |
| 17 | CLA | A | 814 | 65/65 | 0.92 | 0.31 | 50,59,67,68 | 0 |
| 17 | CLA | b | 815 | 55/65 | 0.92 | 0.28 | 62,78,93,94 | 0 |
| 17 | CLA | b | 817 | 59/65 | 0.92 | 0.24 | 56,59,67,68 | 0 |
| 17 | CLA | A | 817 | 45/65 | 0.92 | 0.22 | 66,75,86,92 | 0 |
| 17 | CLA | b | 823 | 60/65 | 0.92 | 0.23 | 50,60,92,94 | 0 |
| 17 | CLA | A | 835 | 65/65 | 0.92 | 0.23 | 58,67,75,81 | 0 |
| 17 | CLA | b | 825 | 65/65 | 0.92 | 0.32 | 38,55,82,83 | 0 |
| 17 | CLA | A | 836 | 50/65 | 0.92 | 0.17 | 60,73,80,86 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 17 | CLA | L | 204 | 50/65 | 0.92 | 0.19 | 76,84,109,109 | 0 |
| 17 | CLA | A | 818 | 65/65 | 0.92 | 0.22 | 58,71,95,97 | 0 |
| 22 | HTG | j | 3001 | 19/19 | 0.92 | 0.37 | 61,71,80,84 | 0 |
| 17 | CLA | f | 7003 | 55/65 | 0.92 | 0.24 | 68,87,121,122 | 0 |
| 17 | CLA | 3 | 314 | 46/65 | 0.92 | 0.18 | 73,78,101,103 | 0 |
| 17 | CLA | g | 102 | 50/65 | 0.92 | 0.33 | 92,107,123,124 | 0 |
| 17 | CLA | B | 823 | 60/65 | 0.92 | 0.20 | 46,57,84,84 | 0 |
| 17 | CLA | 4 | 601 | 46/65 | 0.92 | 0.20 | 84,92,95,111 | 0 |
| 17 | CLA | 4 | 602 | 60/65 | 0.92 | 0.19 | 54,67,73,74 | 0 |
| 17 | CLA | 1 | 306 | 52/65 | 0.92 | 0.17 | 90,99,109,111 | 0 |
| 17 | CLA | 1 | 308 | 65/65 | 0.92 | 0.37 | 57,92,120,121 | 0 |
| 17 | CLA | A | 839 | 65/65 | 0.92 | 0.19 | 54,60,80,83 | 0 |
| 26 | CHL | 2 | 601 | 61/66 | 0.92 | 0.32 | 68,99,113,115 | 0 |
| 17 | CLA | B | 825 | 65/65 | 0.92 | 0.35 | 42,50,83,88 | 0 |
| 17 | CLA | 6 | 306 | 51/65 | 0.92 | 0.24 | 118,123,130,131 | 0 |
| 17 | CLA | 1 | 313 | 65/65 | 0.92 | 0.21 | 81,88,108,112 | 0 |
| 17 | CLA | B | 827 | 65/65 | 0.92 | 0.40 | 49,61,78,80 | 0 |
| 17 | CLA | A | 808 | 65/65 | 0.92 | 0.18 | 52,61,113,115 | 0 |
| 26 | CHL | 4 | 615 | 43/66 | 0.92 | 0.19 | 61,74,87,89 | 0 |
| 26 | CHL | 6 | 308 | 47/66 | 0.92 | 0.23 | 103,135,146,149 | 0 |
| 20 | BCR | J | 3003 | 40/40 | 0.92 | 0.21 | 45,54,67,68 | 0 |
| 17 | CLA | a | 817 | 45/65 | 0.92 | 0.19 | 64,73,78,79 | 0 |
| 26 | CHL | 7 | 614 | 43/66 | 0.92 | 0.29 | 105,120,127,139 | 0 |
| 26 | CHL | 9 | 605 | 56/66 | 0.92 | 0.18 | 80,94,97,126 | 0 |
| 26 | CHL | 9 | 606 | 51/66 | 0.92 | 0.19 | 86,106,118,119 | 0 |
| 26 | CHL | 9 | 607 | 51/66 | 0.92 | 0.27 | 67,77,98,99 | 0 |
| 17 | CLA | 6 | 312 | 41/65 | 0.92 | 0.20 | 90,102,109,129 | 0 |
| 27 | LUT | 1 | 316 | 42/42 | 0.92 | 0.19 | 69,74,100,101 | 0 |
| 20 | BCR | L | 205 | 40/40 | 0.92 | 0.21 | 51,61,70,71 | 0 |
| 17 | CLA | a | 823 | 49/65 | 0.92 | 0.17 | 60,67,102,104 | 0 |
| 27 | LUT | 3 | 316 | 42/42 | 0.92 | 0.25 | 74,78,97,99 | 0 |
| 17 | CLA | B | 802 | 65/65 | 0.92 | 0.30 | 40,44,50,52 | 0 |
| 17 | CLA | B | 835 | 45/65 | 0.92 | 0.17 | 57,66,70,72 | 0 |
| 20 | BCR | 3 | 318 | 40/40 | 0.92 | 0.23 | 77,83,105,108 | 0 |
| 17 | CLA | a | 840 | 65/65 | 0.92 | 0.32 | 36,41,87,89 | 0 |
| 27 | LUT | 8 | 314 | 42/42 | 0.92 | 0.39 | 57,73,82,84 | 0 |
| 17 | CLA | B | 836 | 60/65 | 0.92 | 0.22 | 43,46,97,97 | 0 |
| 28 | XAT | 2 | 616 | 44/44 | 0.92 | 0.25 | 69,79,86,87 | 0 |
| 17 | CLA | B | 810 | 65/65 | 0.92 | 0.22 | 59,77,84,86 | 0 |
| 28 | XAT | 6 | 318 | 44/44 | 0.92 | 0.24 | 71,81,94,95 | 0 |
| 20 | BCR | b | 801 | 40/40 | 0.92 | 0.20 | 36,43,52,55 | 0 |
| 17 | CLA | 8 | 303 | 45/65 | 0.92 | 0.26 | 75,92,99,133 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|-----|-------|------|------|-----------------------------|-------|
| 17 | CLA | A | 804 | 65/65 | 0.92 | 0.23 | 46,58,70,71 | 0 |
| 17 | CLA | b | 821 | 46/65 | 0.93 | 0.18 | 58,69,90,118 | 0 |
| 17 | CLA | b | 822 | 55/65 | 0.93 | 0.16 | 46,60,80,83 | 0 |
| 20 | BCR | l | 201 | 40/40 | 0.93 | 0.21 | 38,46,54,54 | 0 |
| 20 | BCR | l | 205 | 40/40 | 0.93 | 0.24 | 39,46,52,54 | 0 |
| 17 | CLA | 1 | 312 | 52/65 | 0.93 | 0.20 | 70,76,99,100 | 0 |
| 17 | CLA | B | 840 | 65/65 | 0.93 | 0.33 | 41,50,72,78 | 0 |
| 17 | CLA | 9 | 601 | 46/65 | 0.93 | 0.18 | 81,91,95,110 | 0 |
| 17 | CLA | A | 813 | 54/65 | 0.93 | 0.21 | 60,68,77,95 | 0 |
| 17 | CLA | b | 829 | 65/65 | 0.93 | 0.23 | 39,54,67,69 | 0 |
| 17 | CLA | 1 | 315 | 46/65 | 0.93 | 0.15 | 76,87,93,132 | 0 |
| 17 | CLA | 2 | 602 | 65/65 | 0.93 | 0.21 | 66,73,80,83 | 0 |
| 22 | HTG | a | 857 | 19/19 | 0.93 | 0.24 | 53,70,79,81 | 0 |
| 17 | CLA | b | 832 | 65/65 | 0.93 | 0.22 | 36,55,70,79 | 0 |
| 17 | CLA | b | 833 | 58/65 | 0.93 | 0.20 | 48,63,77,78 | 0 |
| 17 | CLA | b | 834 | 65/65 | 0.93 | 0.22 | 61,74,105,106 | 0 |
| 17 | CLA | b | 835 | 45/65 | 0.93 | 0.16 | 86,92,94,96 | 0 |
| 17 | CLA | G | 101 | 45/65 | 0.93 | 0.21 | 74,79,85,89 | 0 |
| 19 | LHG | 6 | 301 | 23/49 | 0.93 | 0.15 | 67,101,110,111 | 0 |
| 17 | CLA | A | 833 | 65/65 | 0.93 | 0.22 | 54,61,101,102 | 0 |
| 17 | CLA | G | 104 | 46/65 | 0.93 | 0.31 | 70,93,100,111 | 0 |
| 17 | CLA | B | 805 | 65/65 | 0.93 | 0.25 | 45,47,53,60 | 0 |
| 20 | BCR | A | 849 | 40/40 | 0.93 | 0.44 | 54,62,83,84 | 0 |
| 17 | CLA | a | 811 | 65/65 | 0.93 | 0.20 | 42,59,94,96 | 0 |
| 17 | CLA | a | 812 | 65/65 | 0.93 | 0.23 | 47,59,70,77 | 0 |
| 17 | CLA | a | 813 | 54/65 | 0.93 | 0.19 | 43,51,60,70 | 0 |
| 17 | CLA | a | 816 | 50/65 | 0.93 | 0.23 | 43,52,94,96 | 0 |
| 26 | CHL | 2 | 607 | 51/66 | 0.93 | 0.21 | 66,75,117,118 | 0 |
| 17 | CLA | B | 822 | 55/65 | 0.93 | 0.22 | 48,58,82,83 | 0 |
| 17 | CLA | a | 819 | 65/65 | 0.93 | 0.22 | 38,54,96,99 | 0 |
| 17 | CLA | l | 203 | 65/65 | 0.93 | 0.20 | 40,51,71,73 | 0 |
| 26 | CHL | 4 | 607 | 51/66 | 0.93 | 0.20 | 57,73,82,85 | 0 |
| 17 | CLA | l | 204 | 50/65 | 0.93 | 0.18 | 46,59,100,104 | 0 |
| 26 | CHL | 6 | 303 | 61/66 | 0.93 | 0.20 | 78,91,102,103 | 0 |
| 17 | CLA | B | 807 | 65/65 | 0.93 | 0.21 | 51,66,113,117 | 0 |
| 26 | CHL | 7 | 601 | 61/66 | 0.93 | 0.20 | 62,74,93,95 | 0 |
| 17 | CLA | B | 809 | 65/65 | 0.93 | 0.23 | 41,50,81,82 | 0 |
| 17 | CLA | A | 810 | 65/65 | 0.93 | 0.19 | 43,51,85,89 | 0 |
| 17 | CLA | a | 837 | 45/65 | 0.93 | 0.17 | 57,65,74,77 | 0 |
| 17 | CLA | a | 839 | 65/65 | 0.93 | 0.24 | 36,43,65,69 | 0 |
| 17 | CLA | A | 825 | 55/65 | 0.93 | 0.16 | 58,67,74,78 | 0 |
| 17 | CLA | 3 | 305 | 42/65 | 0.93 | 0.20 | 67,78,84,90 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 17 | CLA | A | 826 | 65/65 | 0.93 | 0.23 | 47,57,65,66 | 0 |
| 17 | CLA | 6 | 314 | 60/65 | 0.93 | 0.23 | 66,109,124,125 | 0 |
| 17 | CLA | 6 | 315 | 55/65 | 0.93 | 0.28 | 105,114,131,131 | 0 |
| 17 | CLA | B | 833 | 58/65 | 0.93 | 0.18 | 43,52,79,80 | 0 |
| 17 | CLA | A | 821 | 45/65 | 0.93 | 0.21 | 69,74,88,109 | 0 |
| 17 | CLA | 3 | 312 | 55/65 | 0.93 | 0.15 | 86,107,114,117 | 0 |
| 20 | BCR | a | 853 | 40/40 | 0.93 | 0.26 | 44,48,66,67 | 0 |
| 17 | CLA | A | 831 | 65/65 | 0.93 | 0.21 | 43,52,59,61 | 0 |
| 20 | BCR | b | 843 | 40/40 | 0.93 | 0.20 | 54,60,68,69 | 0 |
| 17 | CLA | 7 | 609 | 60/65 | 0.93 | 0.27 | 64,86,97,97 | 0 |
| 17 | CLA | b | 816 | 55/65 | 0.93 | 0.19 | 57,65,72,75 | 0 |
| 28 | XAT | 1 | 317 | 44/44 | 0.93 | 0.21 | 63,68,93,96 | 0 |
| 17 | CLA | 7 | 613 | 43/65 | 0.93 | 0.23 | 73,78,82,86 | 0 |
| 17 | CLA | B | 816 | 55/65 | 0.93 | 0.20 | 60,67,73,91 | 0 |
| 28 | XAT | 4 | 617 | 44/44 | 0.93 | 0.19 | 63,72,87,88 | 0 |
| 20 | BCR | f | 7004 | 40/40 | 0.93 | 0.20 | 55,62,66,66 | 0 |
| 17 | CLA | 8 | 304 | 42/65 | 0.93 | 0.18 | 59,72,78,80 | 0 |
| 20 | BCR | i | 101 | 40/40 | 0.93 | 0.18 | 36,45,49,50 | 0 |
| 17 | CLA | B | 839 | 65/65 | 0.93 | 0.25 | 53,60,69,72 | 0 |
| 17 | CLA | B | 803 | 65/65 | 0.94 | 0.33 | 39,50,61,68 | 0 |
| 17 | CLA | a | 856 | 65/65 | 0.94 | 0.26 | 36,41,56,59 | 0 |
| 17 | CLA | 6 | 304 | 65/65 | 0.94 | 0.20 | 66,79,104,106 | 0 |
| 17 | CLA | b | 805 | 65/65 | 0.94 | 0.21 | 42,45,52,58 | 0 |
| 17 | CLA | B | 804 | 45/65 | 0.94 | 0.18 | 44,50,68,77 | 0 |
| 17 | CLA | b | 809 | 65/65 | 0.94 | 0.20 | 39,50,72,75 | 0 |
| 17 | CLA | 4 | 608 | 50/65 | 0.94 | 0.17 | 56,66,76,86 | 0 |
| 17 | CLA | A | 809 | 65/65 | 0.94 | 0.19 | 44,51,63,65 | 0 |
| 17 | CLA | b | 813 | 65/65 | 0.94 | 0.23 | 44,57,67,69 | 0 |
| 17 | CLA | 2 | 611 | 52/65 | 0.94 | 0.17 | 68,83,119,128 | 0 |
| 17 | CLA | B | 837 | 65/65 | 0.94 | 0.23 | 49,55,61,65 | 0 |
| 26 | CHL | 1 | 302 | 61/66 | 0.94 | 0.21 | 64,74,101,105 | 0 |
| 20 | BCR | B | 848 | 40/40 | 0.94 | 0.33 | 40,45,51,52 | 0 |
| 17 | CLA | 1 | 304 | 65/65 | 0.94 | 0.21 | 63,70,95,97 | 0 |
| 17 | CLA | B | 806 | 65/65 | 0.94 | 0.27 | 43,52,60,64 | 0 |
| 17 | CLA | b | 819 | 65/65 | 0.94 | 0.24 | 50,57,92,95 | 0 |
| 17 | CLA | 4 | 614 | 50/65 | 0.94 | 0.20 | 60,68,90,91 | 0 |
| 17 | CLA | A | 828 | 65/65 | 0.94 | 0.22 | 49,61,79,84 | 0 |
| 20 | BCR | L | 201 | 40/40 | 0.94 | 0.18 | 51,59,72,73 | 0 |
| 17 | CLA | a | 805 | 55/65 | 0.94 | 0.18 | 38,43,76,78 | 0 |
| 17 | CLA | B | 841 | 65/65 | 0.94 | 0.19 | 49,56,63,68 | 0 |
| 17 | CLA | F | 301 | 65/65 | 0.94 | 0.19 | 48,55,83,87 | 0 |
| 17 | CLA | 7 | 612 | 65/65 | 0.94 | 0.24 | 56,66,87,89 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|-----|-------|------|------|-----------------------------|-------|
| 17 | CLA | 3 | 306 | 47/65 | 0.94 | 0.18 | 67,79,90,91 | 0 |
| 17 | CLA | a | 814 | 65/65 | 0.94 | 0.24 | 39,47,64,67 | 0 |
| 17 | CLA | a | 815 | 45/65 | 0.94 | 0.19 | 41,54,63,63 | 0 |
| 17 | CLA | 3 | 308 | 50/65 | 0.94 | 0.20 | 76,86,93,104 | 0 |
| 26 | CHL | 7 | 607 | 51/66 | 0.94 | 0.20 | 64,70,92,98 | 0 |
| 17 | CLA | A | 829 | 65/65 | 0.94 | 0.23 | 42,46,55,58 | 0 |
| 26 | CHL | 8 | 306 | 47/66 | 0.94 | 0.21 | 60,64,79,84 | 0 |
| 17 | CLA | A | 830 | 65/65 | 0.94 | 0.28 | 45,53,58,61 | 0 |
| 17 | CLA | a | 821 | 45/65 | 0.94 | 0.19 | 51,62,70,87 | 0 |
| 17 | CLA | A | 801 | 65/65 | 0.94 | 0.27 | 40,44,49,53 | 0 |
| 17 | CLA | b | 836 | 60/65 | 0.94 | 0.24 | 43,53,106,107 | 0 |
| 17 | CLA | 9 | 602 | 60/65 | 0.94 | 0.18 | 60,67,74,86 | 0 |
| 17 | CLA | b | 840 | 65/65 | 0.94 | 0.23 | 36,41,59,67 | 0 |
| 20 | BCR | b | 848 | 40/40 | 0.94 | 0.20 | 37,42,45,47 | 0 |
| 17 | CLA | 9 | 608 | 50/65 | 0.94 | 0.18 | 72,78,103,105 | 0 |
| 17 | CLA | A | 843 | 65/65 | 0.94 | 0.26 | 48,64,79,81 | 0 |
| 17 | CLA | a | 826 | 65/65 | 0.94 | 0.22 | 39,43,48,56 | 0 |
| 17 | CLA | a | 832 | 50/65 | 0.94 | 0.20 | 41,54,78,83 | 0 |
| 17 | CLA | a | 833 | 65/65 | 0.94 | 0.25 | 39,46,98,102 | 0 |
| 17 | CLA | 9 | 614 | 47/65 | 0.94 | 0.22 | 62,75,97,99 | 0 |
| 18 | PQN | B | 842 | 33/33 | 0.94 | 0.44 | 46,56,63,63 | 0 |
| 19 | LHG | A | 846 | 49/49 | 0.94 | 0.21 | 44,49,58,59 | 0 |
| 17 | CLA | a | 834 | 65/65 | 0.94 | 0.24 | 37,44,48,50 | 0 |
| 17 | CLA | A | 820 | 65/65 | 0.94 | 0.22 | 46,50,57,58 | 0 |
| 19 | LHG | 2 | 618 | 37/49 | 0.94 | 0.30 | 80,91,127,130 | 0 |
| 17 | CLA | B | 830 | 50/65 | 0.94 | 0.17 | 45,56,75,75 | 0 |
| 17 | CLA | 2 | 603 | 65/65 | 0.94 | 0.16 | 64,72,106,108 | 0 |
| 17 | CLA | A | 811 | 65/65 | 0.94 | 0.26 | 54,69,89,90 | 0 |
| 17 | CLA | a | 842 | 65/65 | 0.94 | 0.21 | 47,59,96,98 | 0 |
| 17 | CLA | A | 838 | 51/65 | 0.95 | 0.17 | 45,60,67,68 | 0 |
| 19 | LHG | 1 | 301 | 23/49 | 0.95 | 0.20 | 63,84,93,94 | 0 |
| 17 | CLA | a | 841 | 65/65 | 0.95 | 0.21 | 55,62,65,67 | 0 |
| 17 | CLA | 3 | 303 | 50/65 | 0.95 | 0.21 | 60,67,75,76 | 0 |
| 17 | CLA | a | 843 | 65/65 | 0.95 | 0.24 | 35,39,60,65 | 0 |
| 17 | CLA | a | 802 | 65/65 | 0.95 | 0.27 | 35,42,56,62 | 0 |
| 17 | CLA | B | 838 | 47/65 | 0.95 | 0.30 | 43,48,65,68 | 0 |
| 17 | CLA | b | 802 | 65/65 | 0.95 | 0.24 | 36,41,45,52 | 0 |
| 17 | CLA | B | 820 | 50/65 | 0.95 | 0.20 | 53,69,95,100 | 0 |
| 17 | CLA | b | 806 | 65/65 | 0.95 | 0.26 | 39,43,52,65 | 0 |
| 17 | CLA | a | 806 | 65/65 | 0.95 | 0.21 | 37,39,49,51 | 0 |
| 17 | CLA | b | 808 | 65/65 | 0.95 | 0.18 | 39,47,53,59 | 0 |
| 17 | CLA | a | 807 | 65/65 | 0.95 | 0.22 | 35,41,50,54 | 0 |

Continued on next page...

Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|-----|-------|------|------|-----------------------------|-------|
| 17 | CLA | b | 810 | 65/65 | 0.95 | 0.17 | 39,49,59,62 | 0 |
| 20 | BCR | B | 801 | 40/40 | 0.95 | 0.21 | 43,46,54,55 | 0 |
| 17 | CLA | a | 808 | 65/65 | 0.95 | 0.20 | 54,63,86,87 | 0 |
| 17 | CLA | a | 809 | 65/65 | 0.95 | 0.20 | 36,39,53,57 | 0 |
| 17 | CLA | a | 810 | 65/65 | 0.95 | 0.19 | 44,59,94,95 | 0 |
| 17 | CLA | A | 815 | 45/65 | 0.95 | 0.19 | 54,59,65,70 | 0 |
| 17 | CLA | A | 840 | 65/65 | 0.95 | 0.23 | 48,55,95,96 | 0 |
| 17 | CLA | 1 | 311 | 41/65 | 0.95 | 0.17 | 67,74,81,82 | 0 |
| 20 | BCR | F | 305 | 40/40 | 0.95 | 0.20 | 46,51,58,60 | 0 |
| 26 | CHL | 3 | 307 | 47/66 | 0.95 | 0.17 | 72,77,94,97 | 0 |
| 17 | CLA | B | 808 | 65/65 | 0.95 | 0.25 | 41,45,70,73 | 0 |
| 17 | CLA | b | 818 | 60/65 | 0.95 | 0.28 | 44,47,53,56 | 0 |
| 17 | CLA | 7 | 603 | 51/65 | 0.95 | 0.19 | 52,60,97,98 | 0 |
| 17 | CLA | F | 303 | 45/65 | 0.95 | 0.20 | 51,60,71,76 | 0 |
| 17 | CLA | A | 841 | 65/65 | 0.95 | 0.19 | 44,50,55,60 | 0 |
| 17 | CLA | A | 842 | 65/65 | 0.95 | 0.23 | 42,45,56,65 | 0 |
| 17 | CLA | 7 | 610 | 41/65 | 0.95 | 0.19 | 74,82,94,99 | 0 |
| 17 | CLA | a | 818 | 65/65 | 0.95 | 0.21 | 45,53,81,83 | 0 |
| 17 | CLA | B | 826 | 65/65 | 0.95 | 0.28 | 44,50,56,64 | 0 |
| 17 | CLA | A | 816 | 50/65 | 0.95 | 0.20 | 52,70,108,108 | 0 |
| 17 | CLA | 8 | 302 | 50/65 | 0.95 | 0.16 | 46,54,73,74 | 0 |
| 17 | CLA | a | 822 | 65/65 | 0.95 | 0.17 | 42,46,53,57 | 0 |
| 17 | CLA | b | 826 | 65/65 | 0.95 | 0.27 | 48,55,59,62 | 0 |
| 20 | BCR | a | 851 | 40/40 | 0.95 | 0.32 | 37,53,66,67 | 0 |
| 17 | CLA | 8 | 305 | 47/65 | 0.95 | 0.15 | 61,71,78,79 | 0 |
| 17 | CLA | b | 827 | 65/65 | 0.95 | 0.28 | 40,53,83,83 | 0 |
| 17 | CLA | B | 828 | 65/65 | 0.95 | 0.29 | 43,48,58,61 | 0 |
| 17 | CLA | B | 812 | 55/65 | 0.95 | 0.21 | 53,62,106,107 | 0 |
| 17 | CLA | 4 | 603 | 46/65 | 0.95 | 0.19 | 54,62,69,72 | 0 |
| 17 | CLA | 8 | 312 | 46/65 | 0.95 | 0.15 | 57,66,99,103 | 0 |
| 17 | CLA | a | 827 | 65/65 | 0.95 | 0.27 | 35,41,82,85 | 0 |
| 17 | CLA | a | 828 | 65/65 | 0.95 | 0.22 | 37,44,67,72 | 0 |
| 17 | CLA | a | 829 | 65/65 | 0.95 | 0.23 | 35,41,56,58 | 0 |
| 17 | CLA | 9 | 603 | 46/65 | 0.95 | 0.17 | 62,64,77,78 | 0 |
| 17 | CLA | A | 822 | 65/65 | 0.95 | 0.20 | 49,67,76,79 | 0 |
| 17 | CLA | B | 832 | 65/65 | 0.95 | 0.23 | 43,48,73,76 | 0 |
| 17 | CLA | b | 837 | 65/65 | 0.95 | 0.21 | 46,57,69,70 | 0 |
| 17 | CLA | 9 | 610 | 41/65 | 0.95 | 0.26 | 99,103,113,114 | 0 |
| 17 | CLA | b | 838 | 47/65 | 0.95 | 0.22 | 38,44,54,64 | 0 |
| 17 | CLA | A | 854 | 65/65 | 0.95 | 0.31 | 40,44,57,59 | 0 |
| 17 | CLA | A | 802 | 65/65 | 0.95 | 0.29 | 41,45,51,53 | 0 |
| 17 | CLA | A | 803 | 65/65 | 0.95 | 0.27 | 39,44,54,59 | 0 |

Continued on next page...

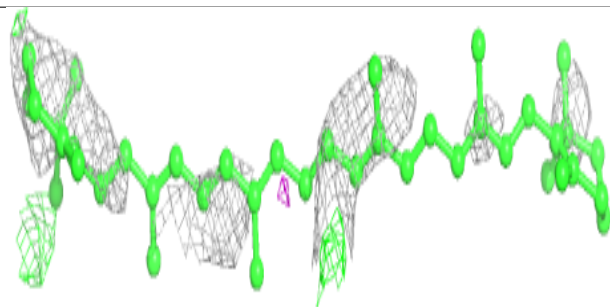
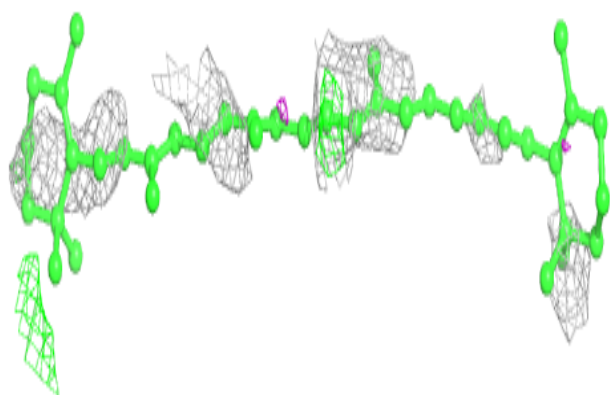
Continued from previous page...

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|------|-------|------|------|-----------------------------|-------|
| 17 | CLA | a | 838 | 51/65 | 0.95 | 0.19 | 36,40,63,68 | 0 |
| 17 | CLA | A | 819 | 65/65 | 0.95 | 0.21 | 54,65,117,120 | 0 |
| 17 | CLA | b | 839 | 65/65 | 0.96 | 0.18 | 38,44,50,53 | 0 |
| 17 | CLA | 8 | 307 | 50/65 | 0.96 | 0.18 | 52,65,91,93 | 0 |
| 17 | CLA | b | 828 | 65/65 | 0.96 | 0.29 | 41,47,56,56 | 0 |
| 17 | CLA | B | 819 | 65/65 | 0.96 | 0.23 | 46,53,80,83 | 0 |
| 20 | BCR | A | 852 | 40/40 | 0.96 | 0.23 | 42,44,49,50 | 0 |
| 18 | PQN | A | 844 | 33/33 | 0.96 | 0.24 | 42,45,57,58 | 0 |
| 17 | CLA | f | 7002 | 45/65 | 0.96 | 0.16 | 54,59,76,77 | 0 |
| 20 | BCR | a | 850 | 40/40 | 0.96 | 0.23 | 39,48,79,81 | 0 |
| 18 | PQN | a | 845 | 33/33 | 0.96 | 0.22 | 35,48,54,58 | 0 |
| 18 | PQN | b | 842 | 33/33 | 0.96 | 0.22 | 36,41,49,50 | 0 |
| 22 | HTG | A | 855 | 19/19 | 0.96 | 0.16 | 68,72,74,75 | 0 |
| 17 | CLA | a | 835 | 65/65 | 0.96 | 0.19 | 36,43,48,49 | 0 |
| 17 | CLA | a | 844 | 65/65 | 0.96 | 0.23 | 38,49,59,64 | 0 |
| 17 | CLA | A | 807 | 65/65 | 0.96 | 0.27 | 44,47,58,69 | 0 |
| 17 | CLA | a | 801 | 65/65 | 0.96 | 0.21 | 35,39,44,46 | 0 |
| 17 | CLA | B | 831 | 49/65 | 0.96 | 0.18 | 45,53,62,65 | 0 |
| 17 | CLA | b | 804 | 45/65 | 0.96 | 0.14 | 42,52,68,75 | 0 |
| 19 | LHG | a | 847 | 49/49 | 0.96 | 0.21 | 35,41,47,48 | 0 |
| 17 | CLA | 8 | 301 | 60/65 | 0.96 | 0.17 | 56,64,68,72 | 0 |
| 17 | CLA | a | 831 | 65/65 | 0.96 | 0.19 | 36,43,54,56 | 0 |
| 17 | CLA | a | 803 | 65/65 | 0.96 | 0.23 | 35,38,50,53 | 0 |
| 17 | CLA | a | 825 | 55/65 | 0.96 | 0.18 | 39,44,58,68 | 0 |
| 17 | CLA | b | 803 | 65/65 | 0.97 | 0.27 | 35,40,47,49 | 0 |
| 20 | BCR | a | 854 | 40/40 | 0.97 | 0.19 | 35,40,47,47 | 0 |
| 17 | CLA | a | 830 | 65/65 | 0.97 | 0.21 | 36,40,47,49 | 0 |
| 17 | CLA | a | 820 | 65/65 | 0.98 | 0.20 | 38,43,48,50 | 0 |
| 21 | SF4 | a | 855 | 8/8 | 0.98 | 0.20 | 37,37,43,43 | 0 |
| 21 | SF4 | C | 102 | 8/8 | 0.99 | 0.09 | 51,62,72,84 | 0 |
| 21 | SF4 | A | 853 | 8/8 | 0.99 | 0.18 | 43,44,48,51 | 0 |
| 21 | SF4 | c | 101 | 8/8 | 0.99 | 0.16 | 41,46,54,56 | 0 |
| 21 | SF4 | c | 102 | 8/8 | 0.99 | 0.12 | 41,50,62,77 | 0 |
| 21 | SF4 | C | 101 | 8/8 | 0.99 | 0.14 | 47,49,53,57 | 0 |

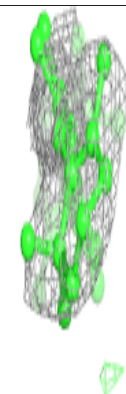
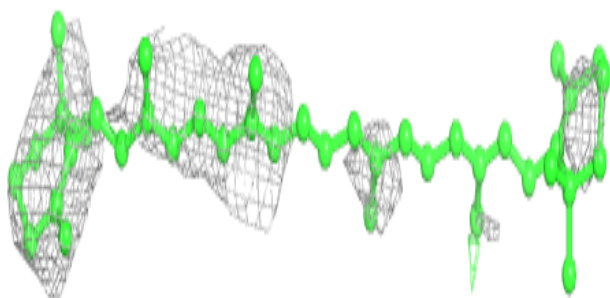
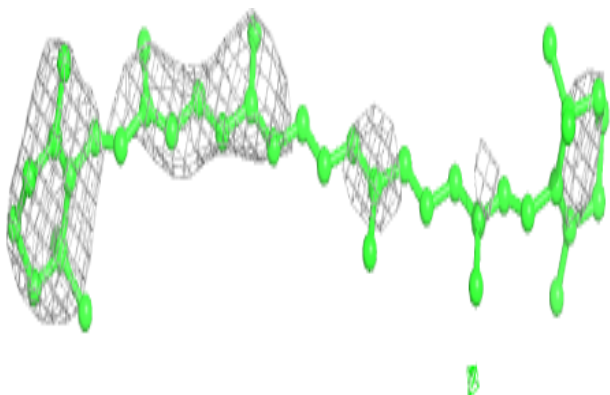
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around BCR L 206:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

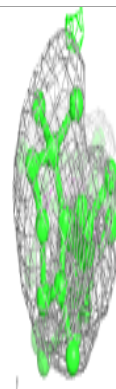
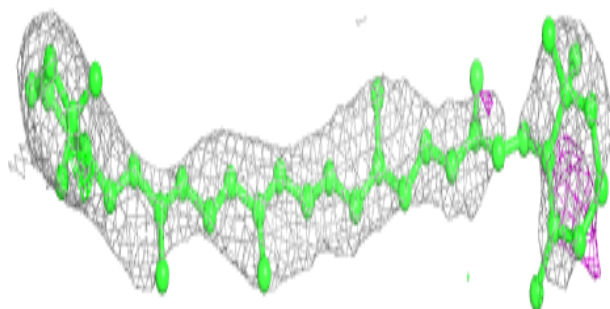
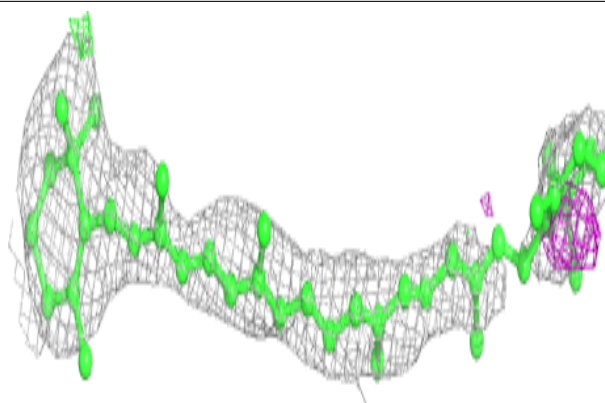
**Electron density around BCR K 4004:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



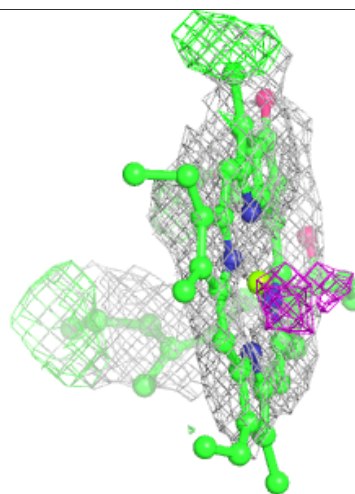
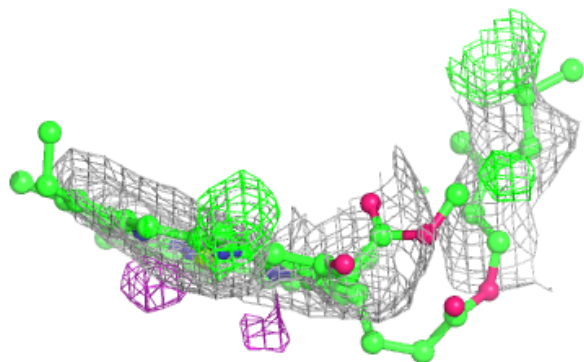
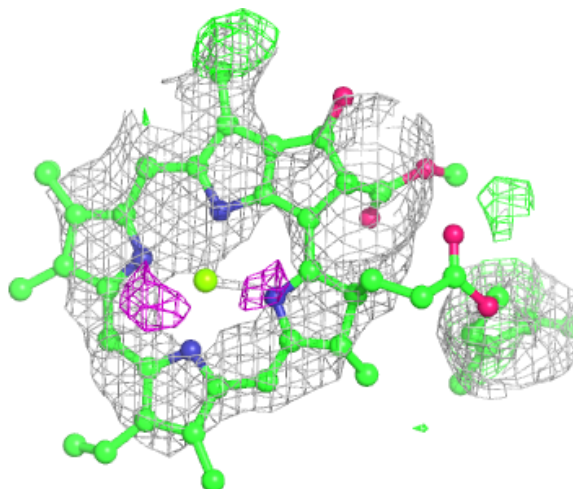
Electron density around BCR K 4001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



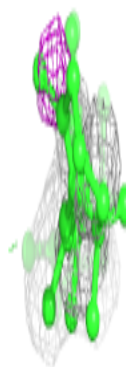
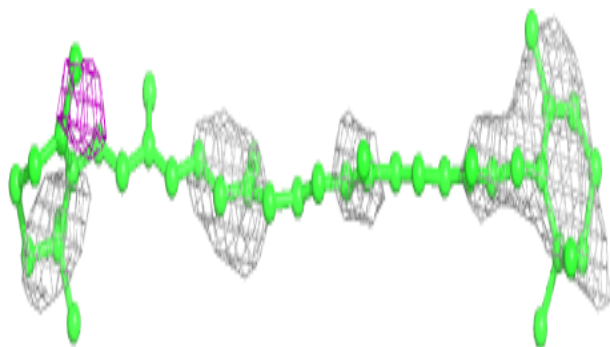
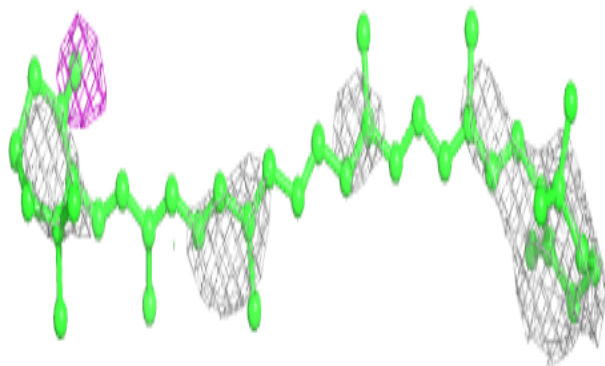
Electron density around CLA 8 309:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

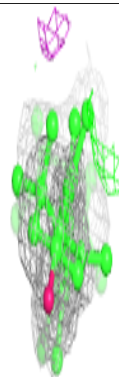
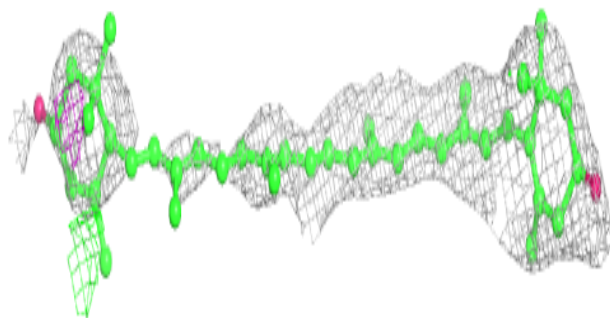
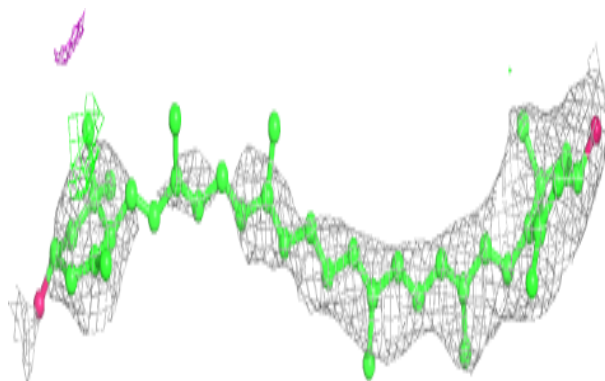


Electron density around BCR 2 617:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

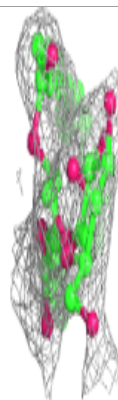
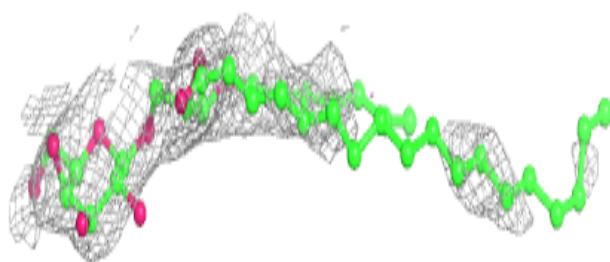
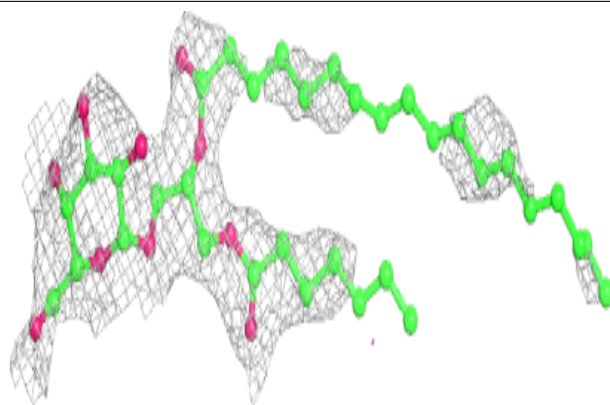
**Electron density around LUT 6 317:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

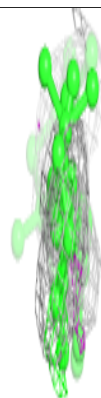
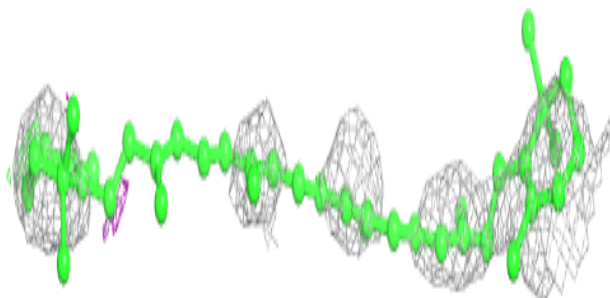
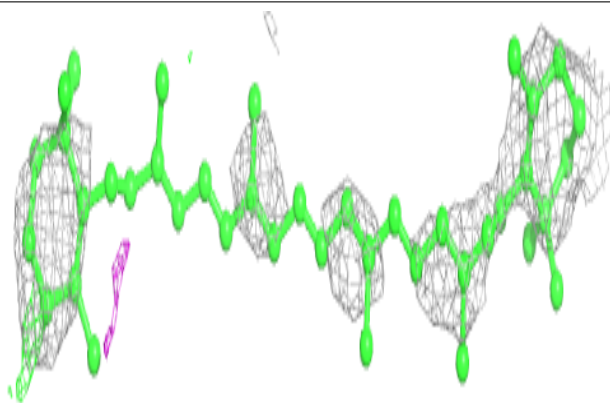


Electron density around LMG 4 620:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

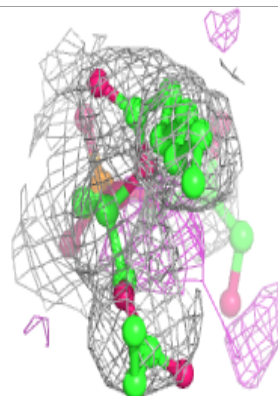
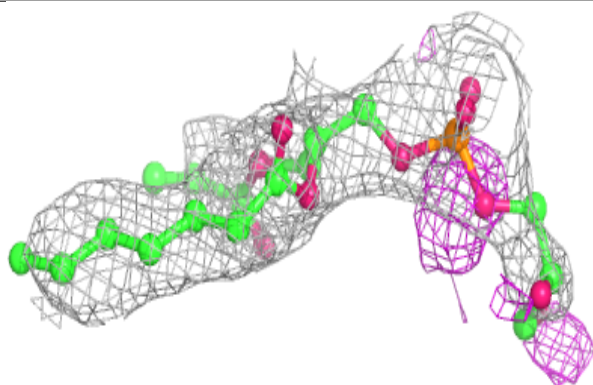
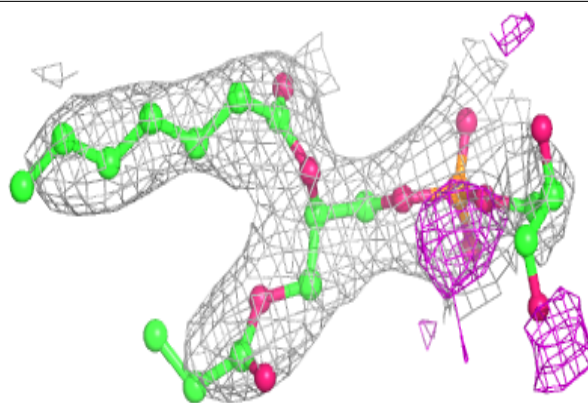
**Electron density around BCR 7 617:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

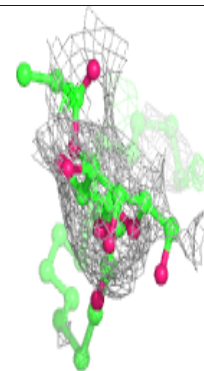
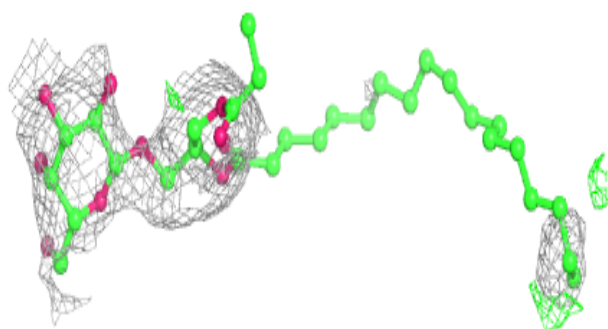
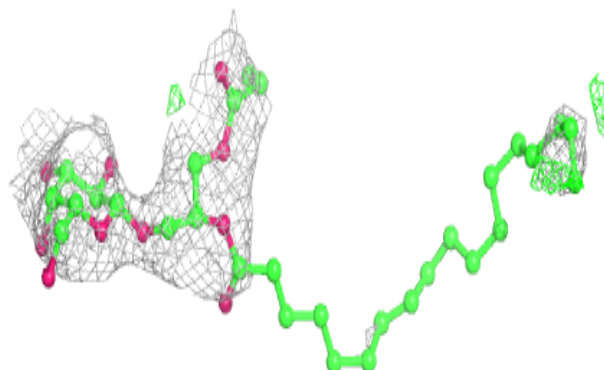


Electron density around LHG a 848:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

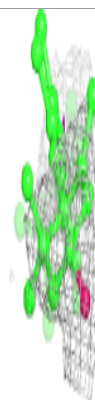
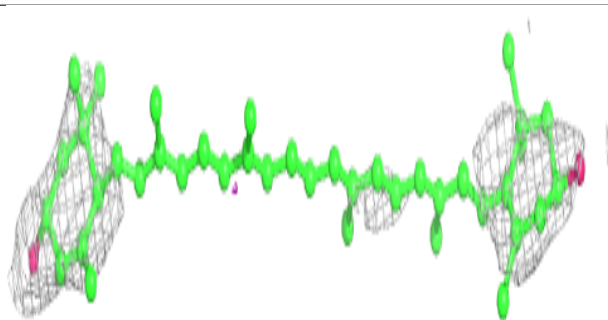
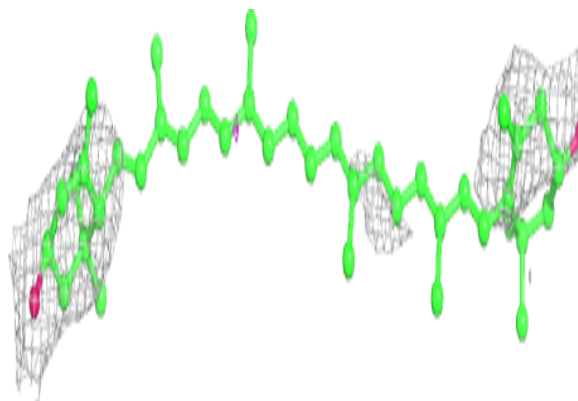
**Electron density around LMG 6 302:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



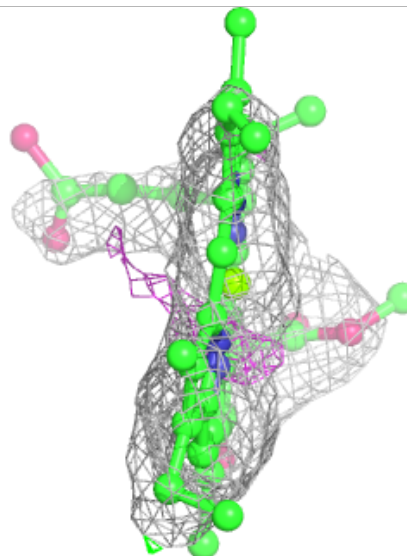
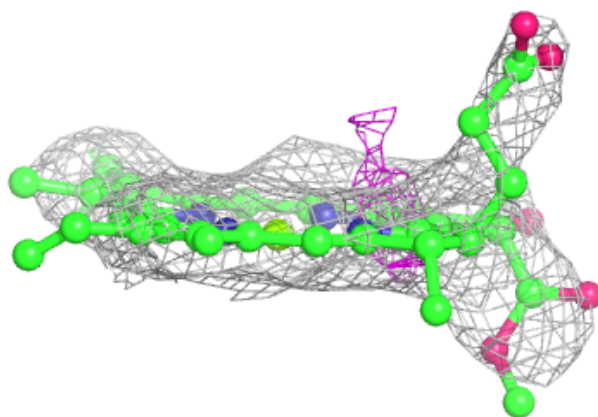
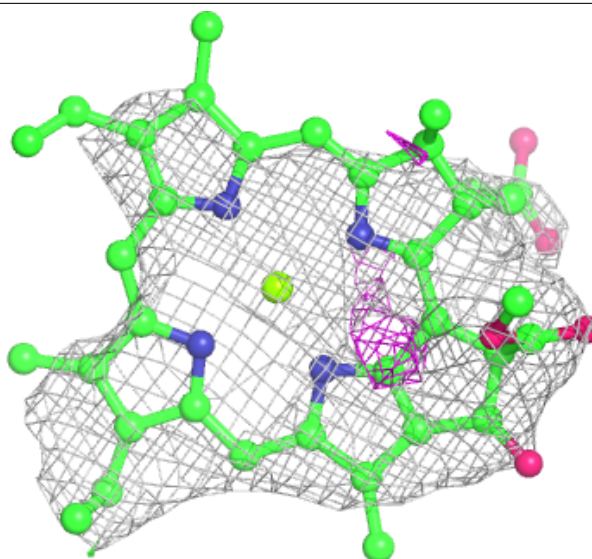
Electron density around LUT 6 321:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



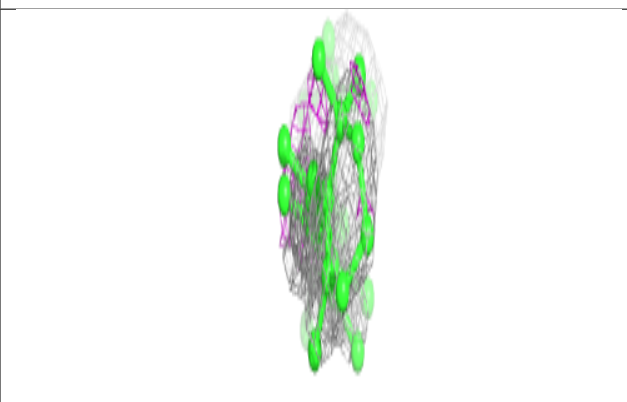
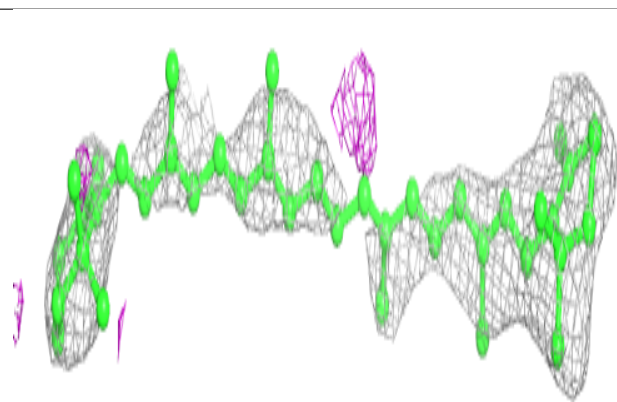
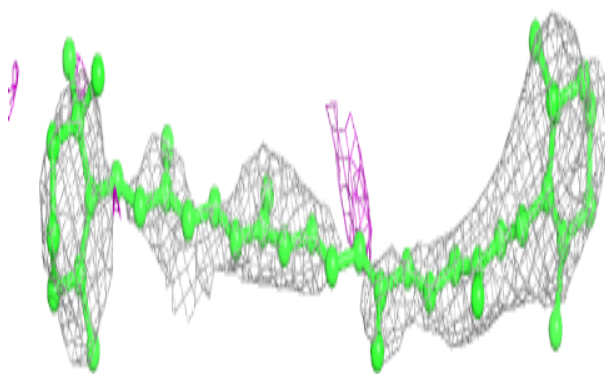
Electron density around CLA K 4002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

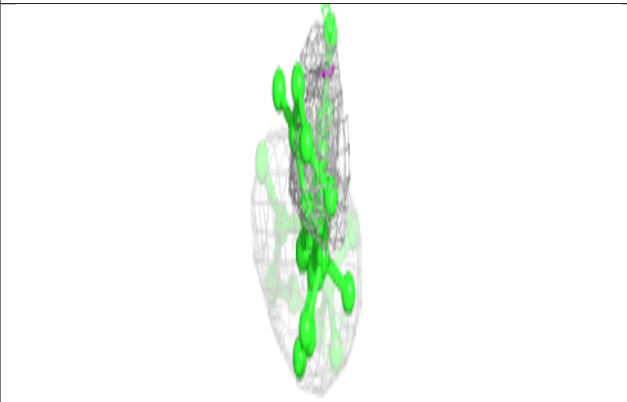
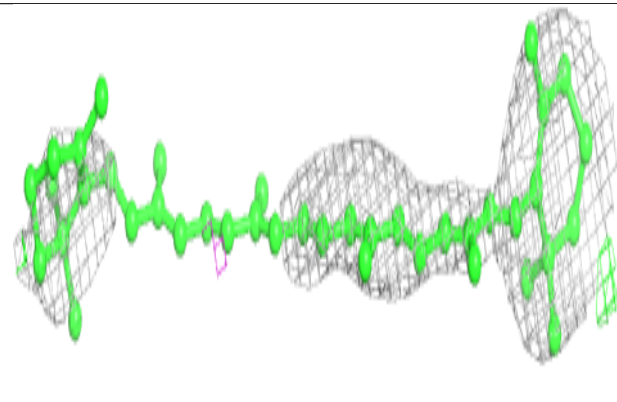
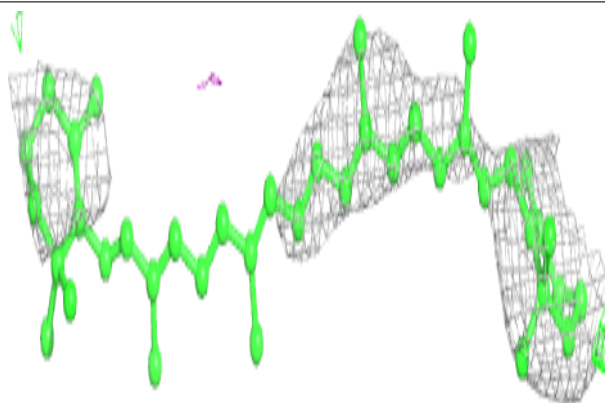


Electron density around BCR 1 206:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

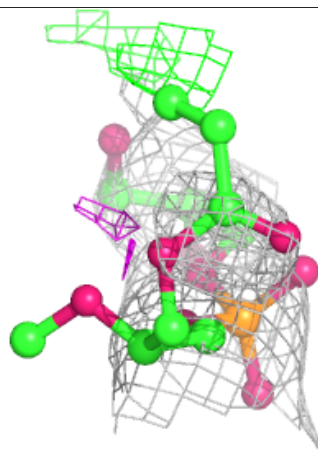
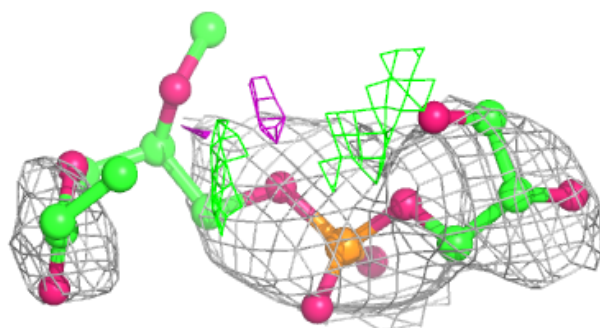
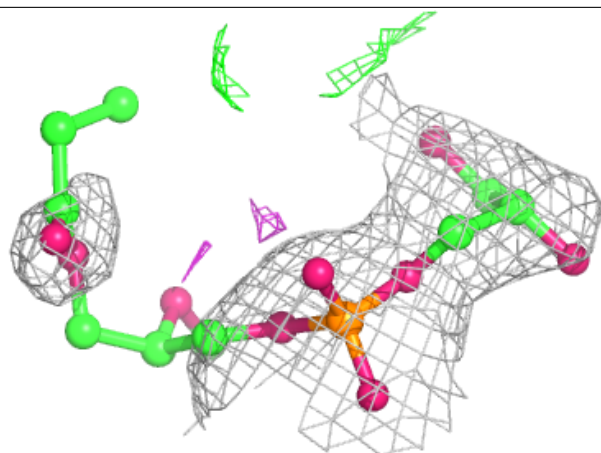
**Electron density around BCR 1 318:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



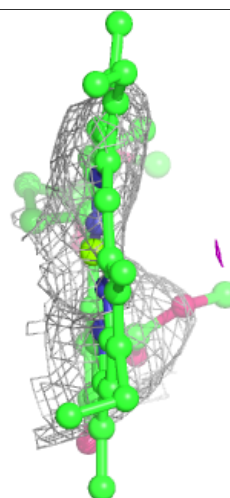
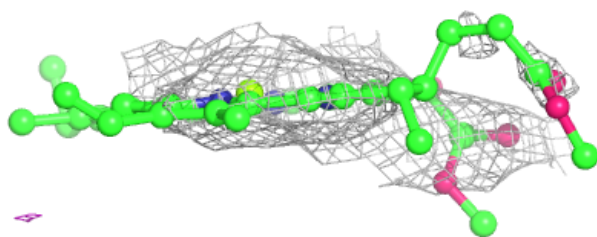
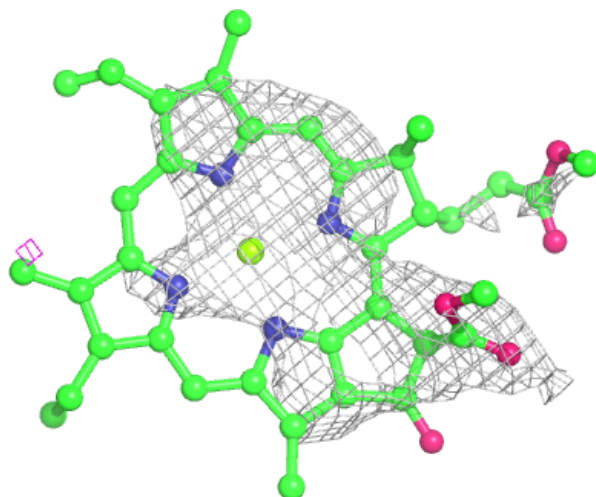
Electron density around LHG 3 319:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



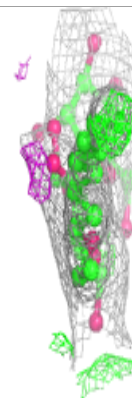
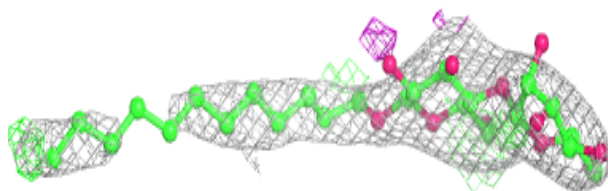
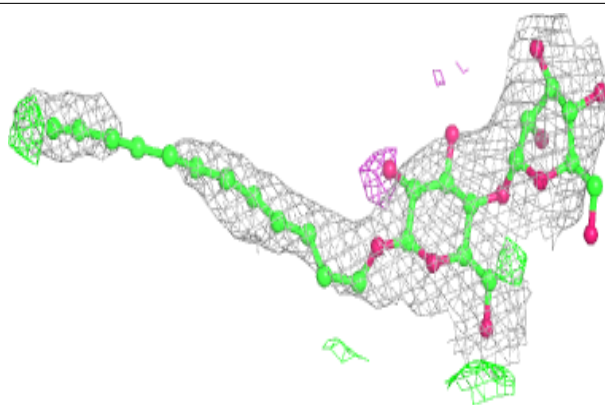
Electron density around CLA 3 301:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

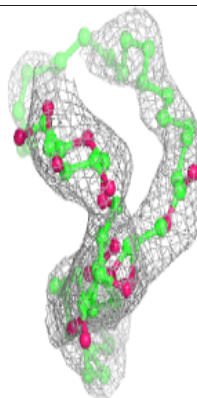
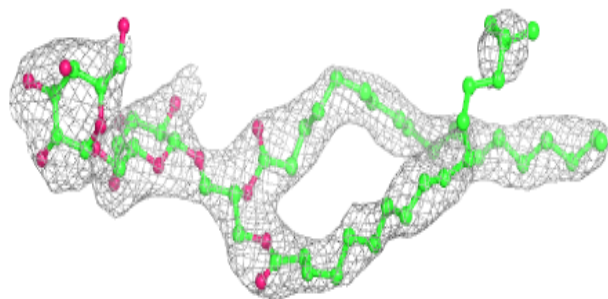
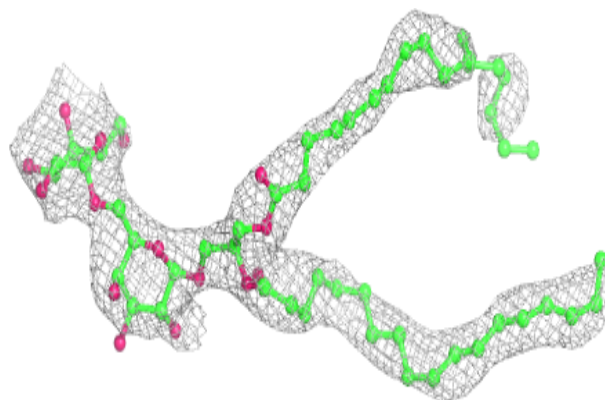


Electron density around LMT B 849:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

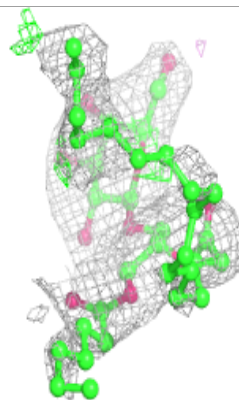
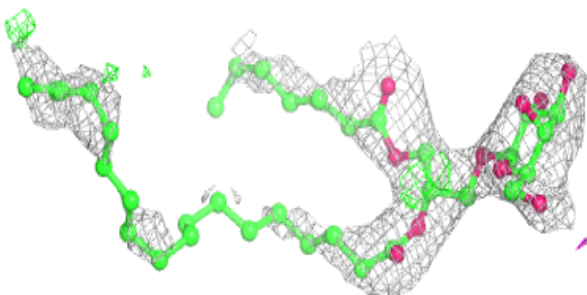
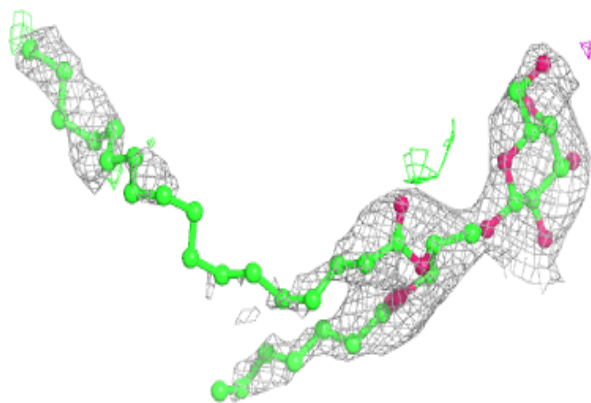
**Electron density around DGD B 850:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

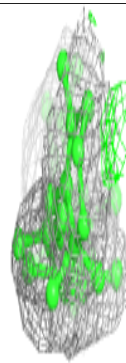
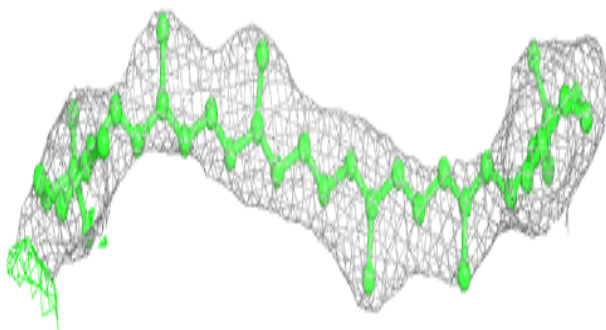
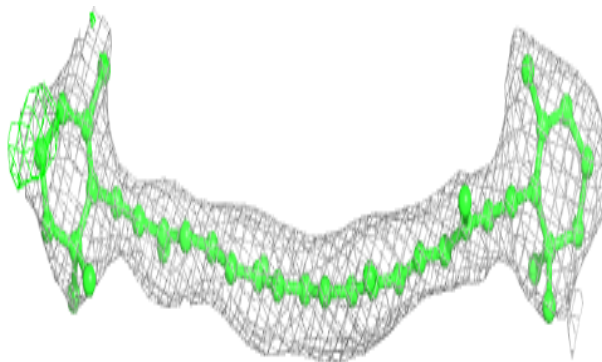


Electron density around LMG 4 619:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

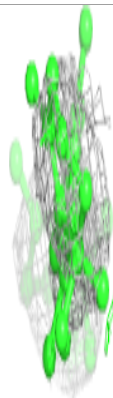
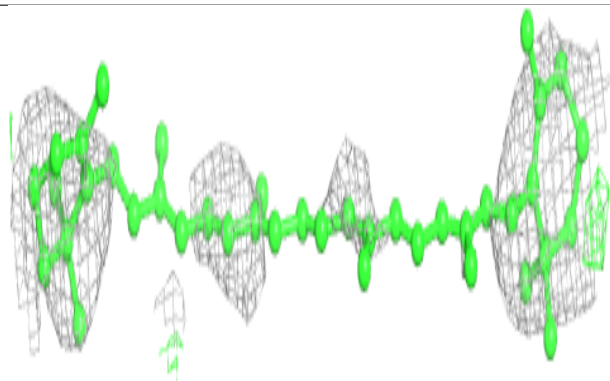
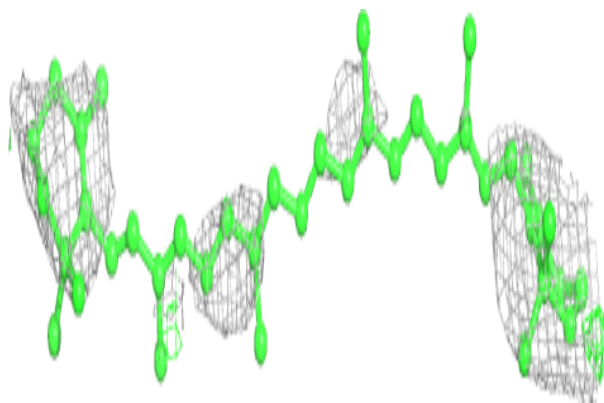
**Electron density around BCR A 856:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



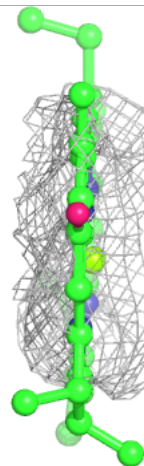
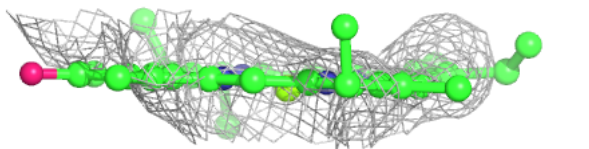
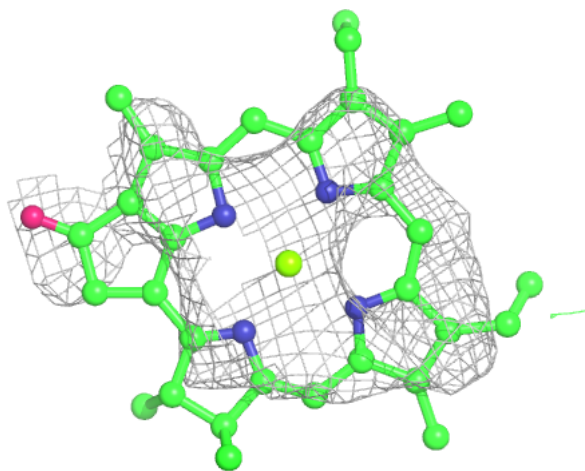
Electron density around BCR 6 319:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



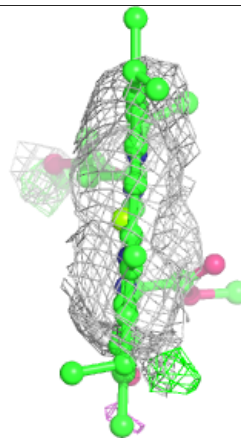
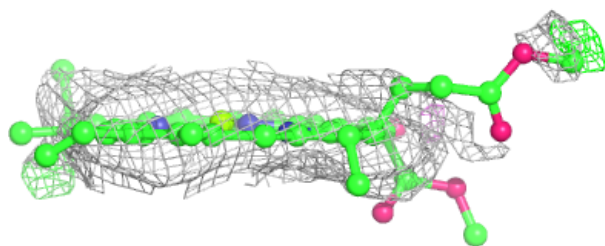
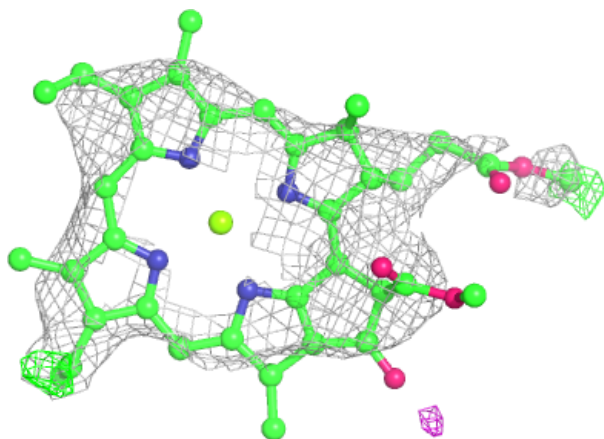
Electron density around CLA 3 310:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



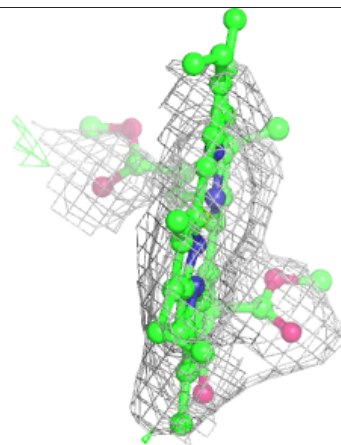
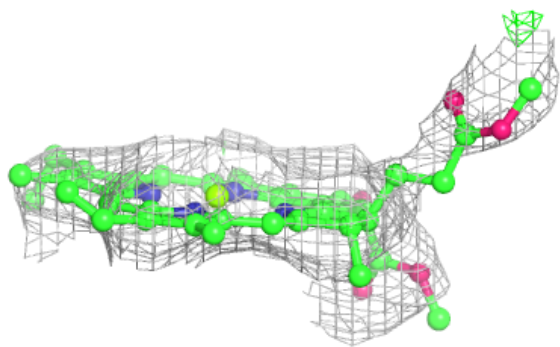
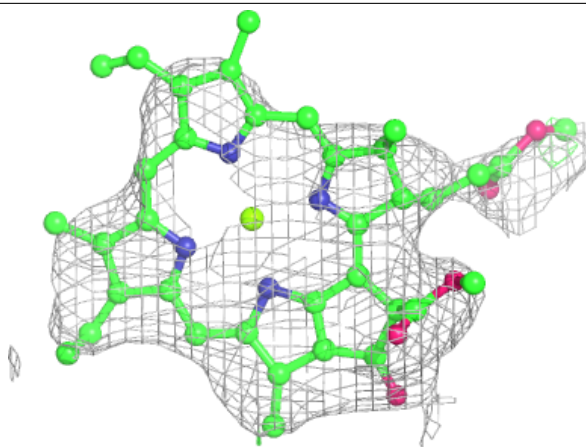
Electron density around CLA 6 316:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



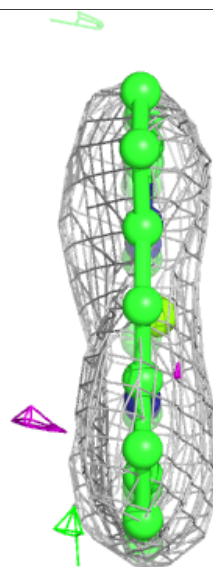
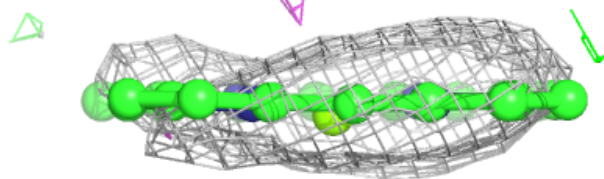
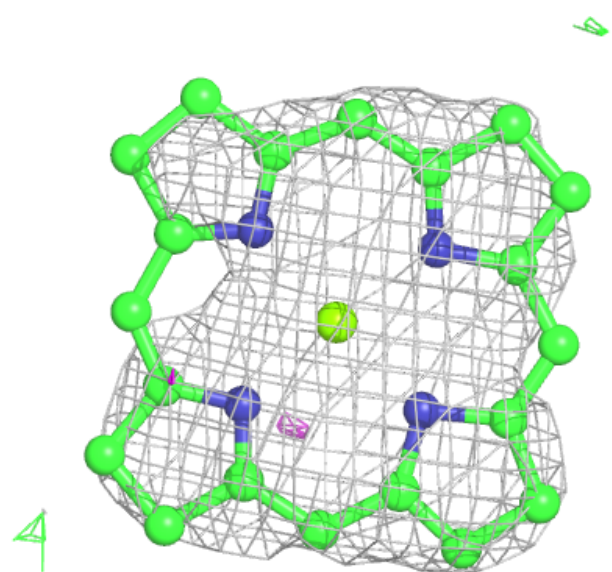
Electron density around CLA K 4003:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



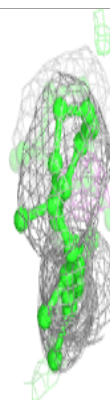
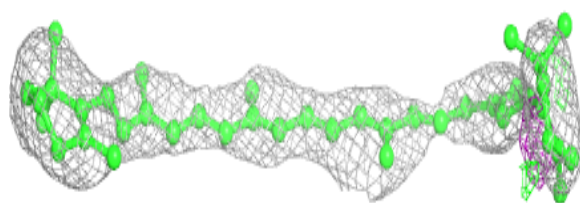
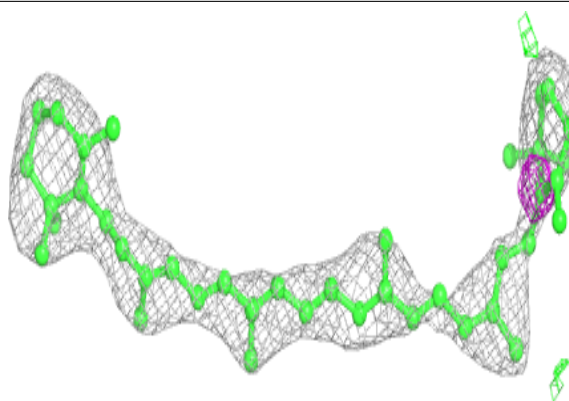
Electron density around CLA 8 313:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

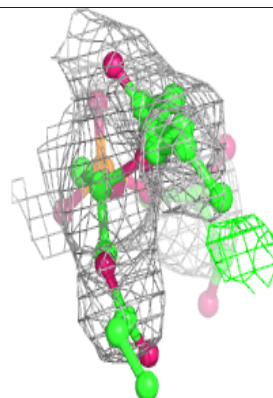
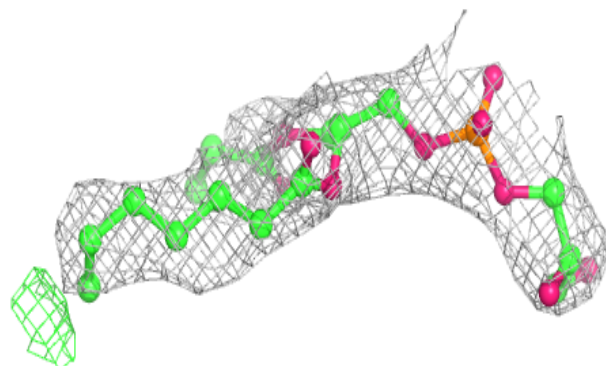
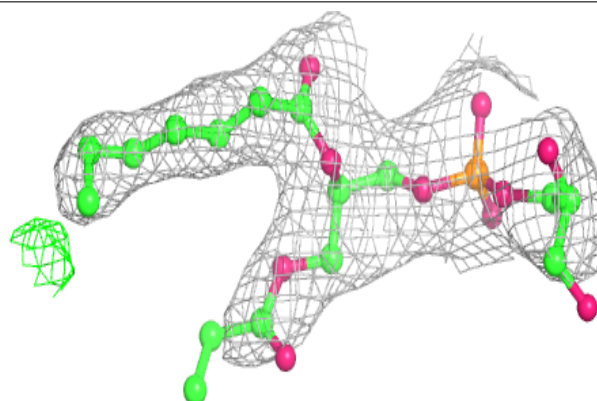


Electron density around BCR b 844:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

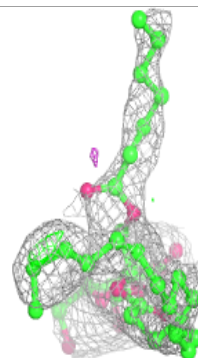
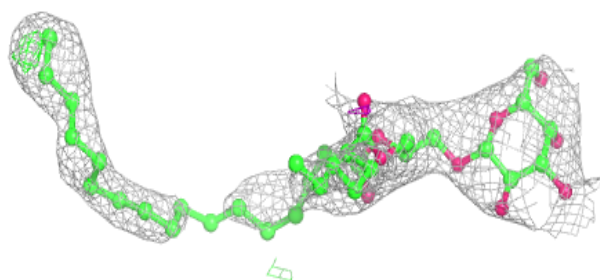
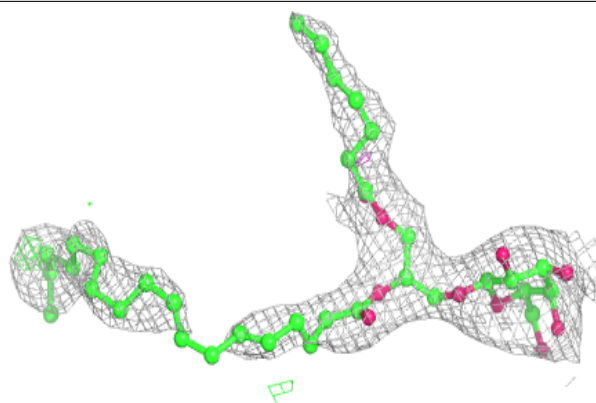
**Electron density around LHG A 847:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



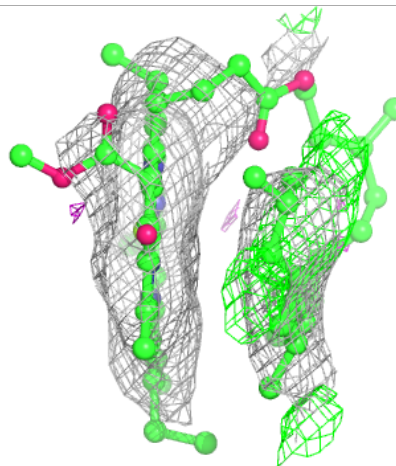
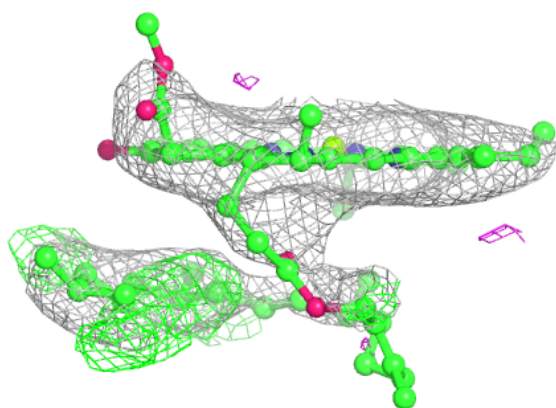
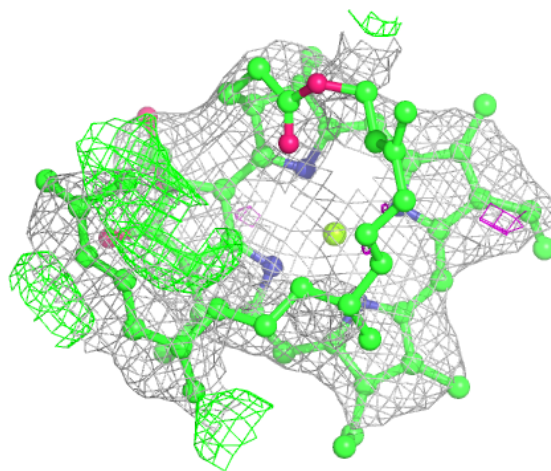
Electron density around LMG G 102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



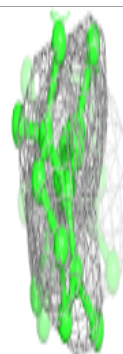
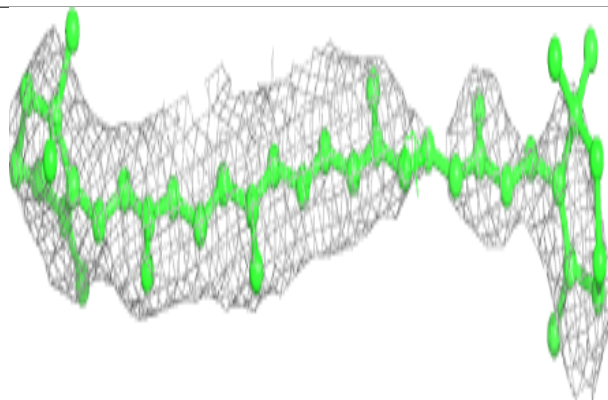
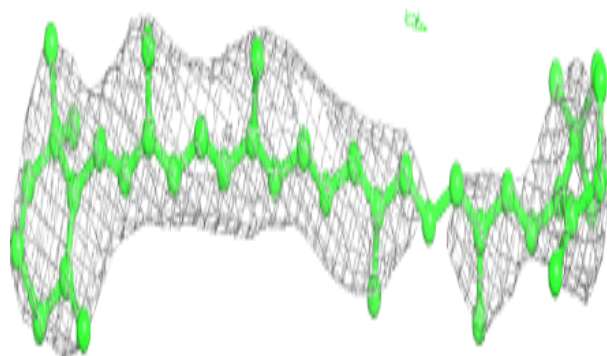
Electron density around CLA L 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



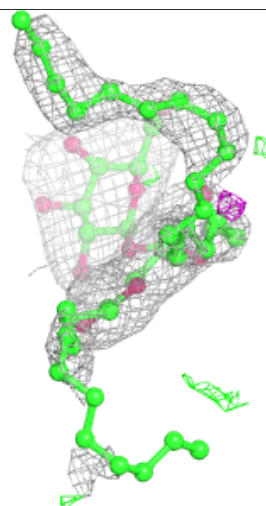
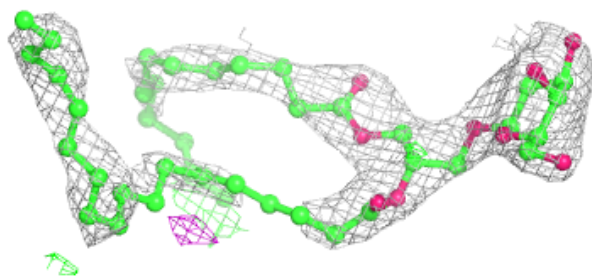
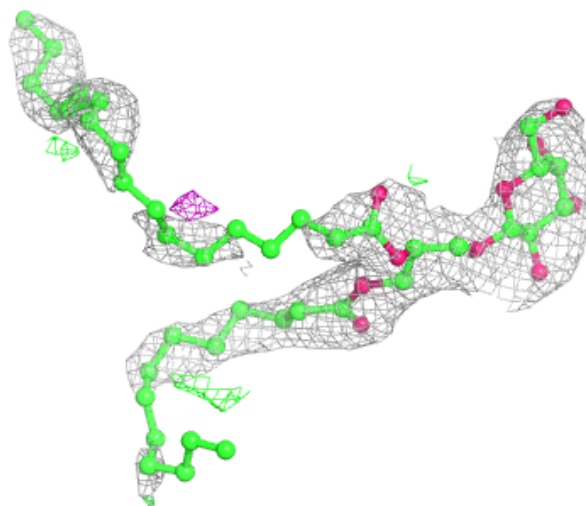
Electron density around BCR A 850:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



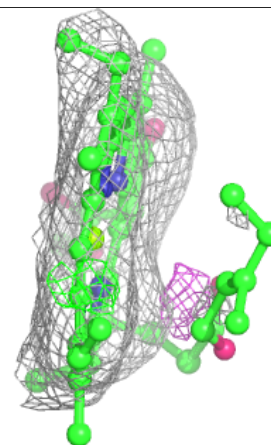
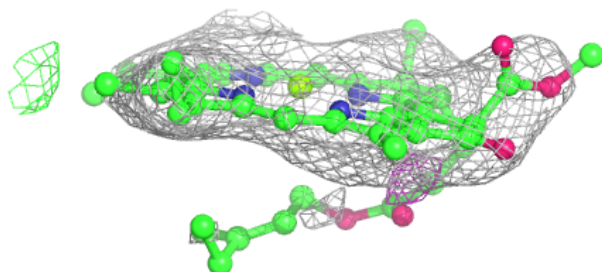
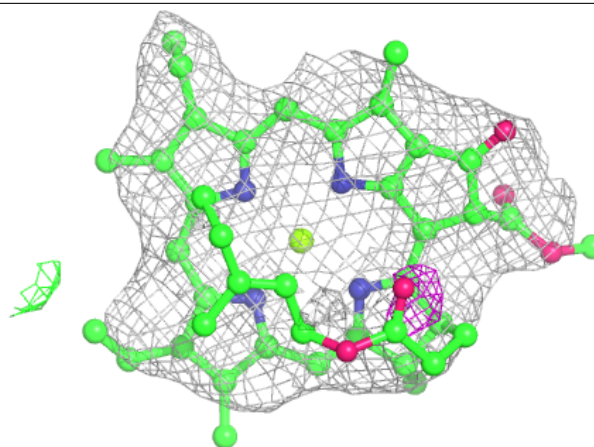
Electron density around LMG 9 619:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

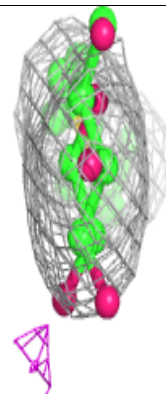
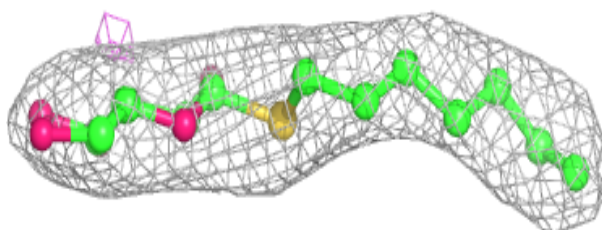
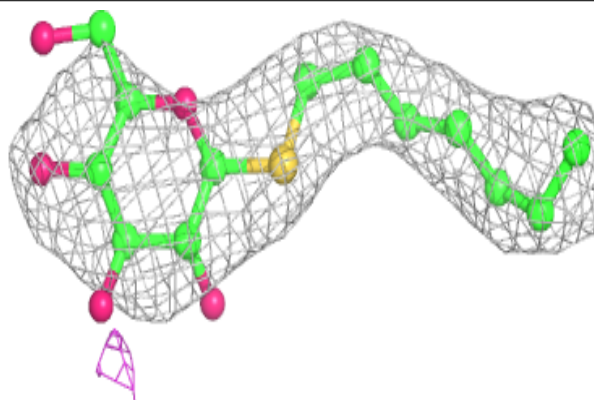


Electron density around CLA A 824:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

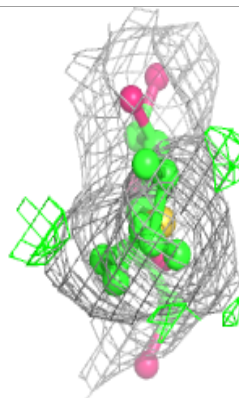
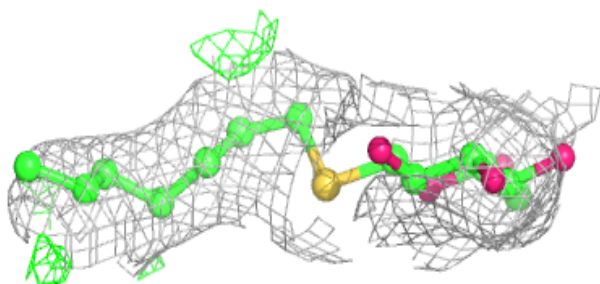
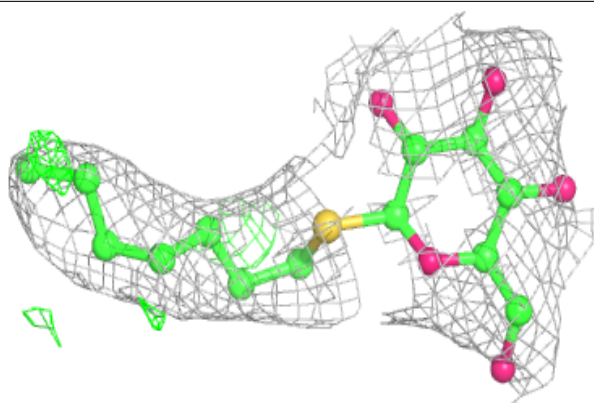
**Electron density around HTG F 302:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

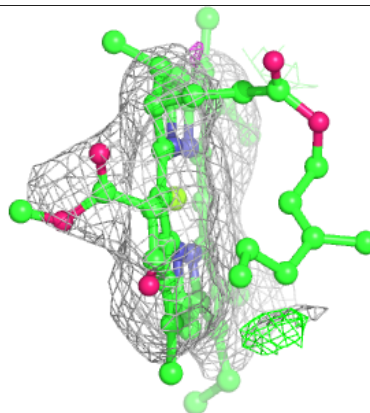
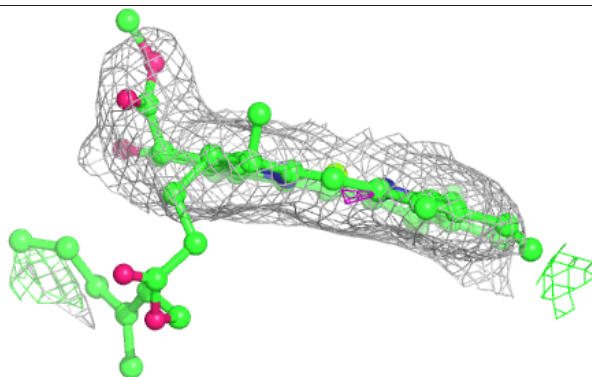
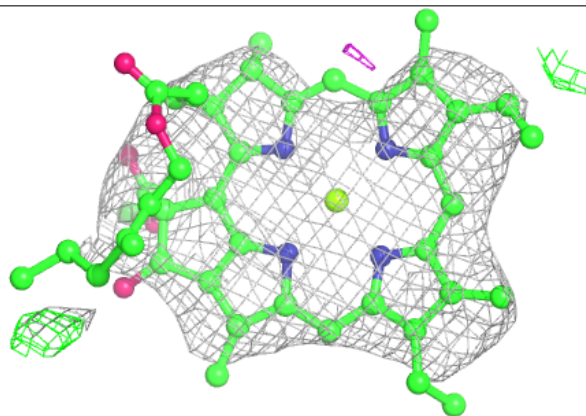


Electron density around HTG J 3001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

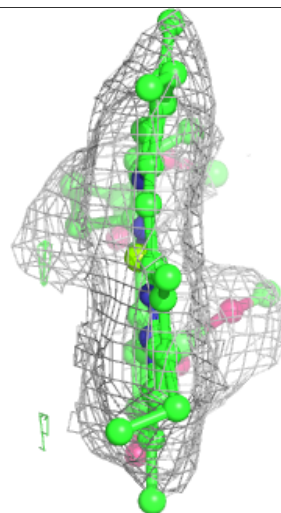
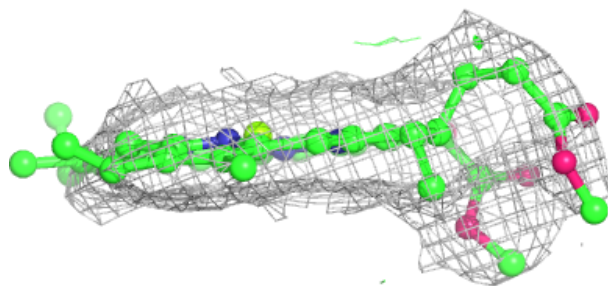
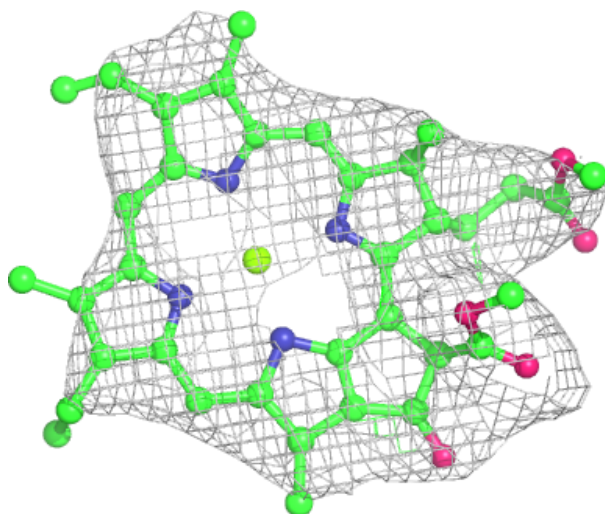
**Electron density around CLA A 845:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



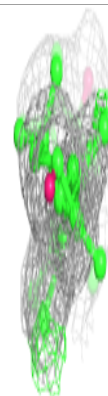
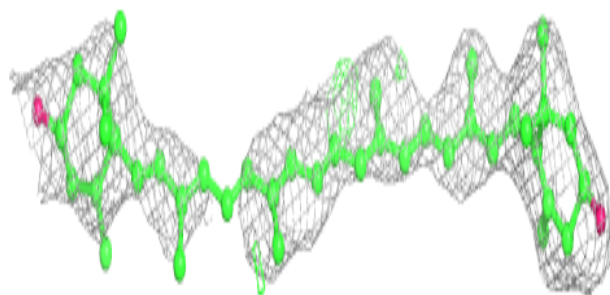
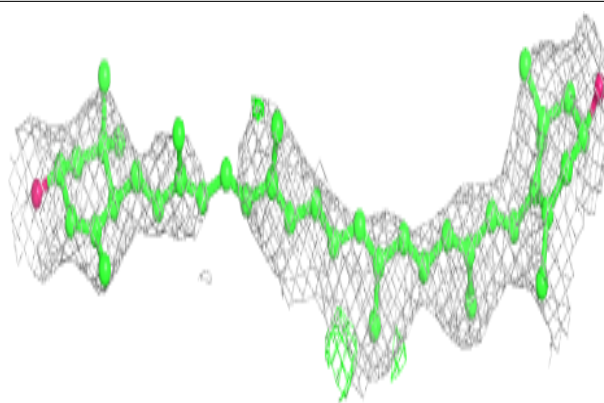
Electron density around CLA k 1403:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

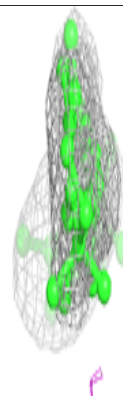
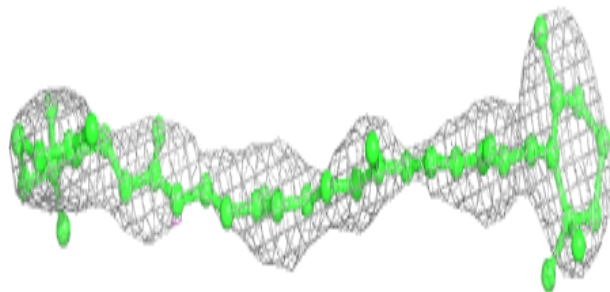
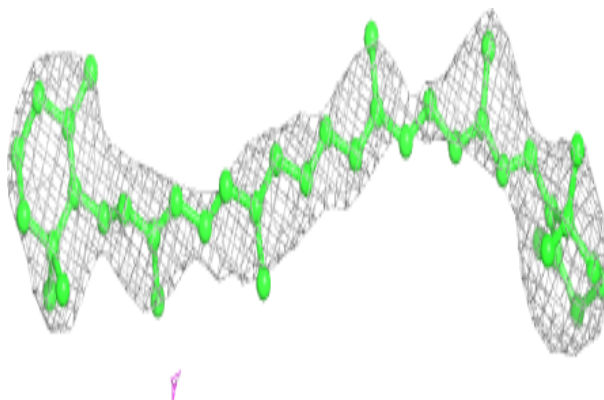


Electron density around LUT 4 616:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

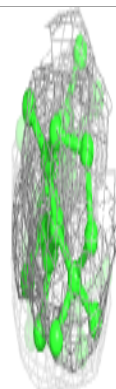
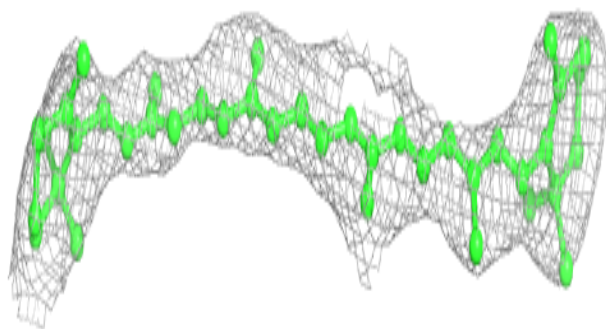
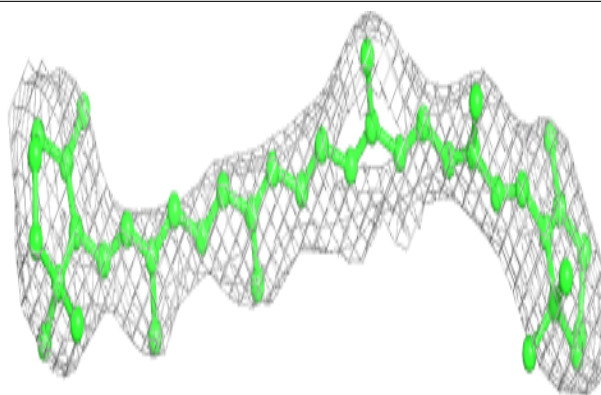
**Electron density around BCR 4 618:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

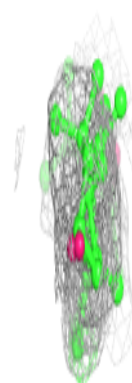
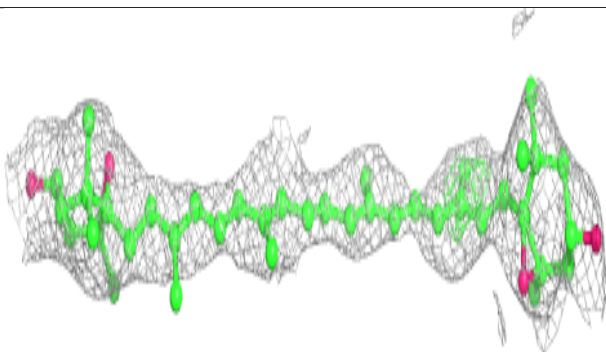
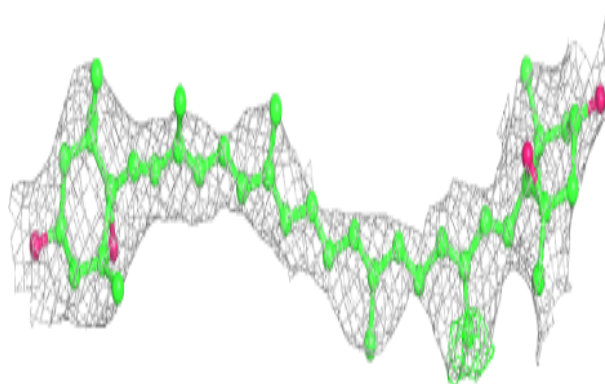


Electron density around BCR G 105:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

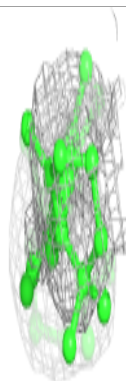
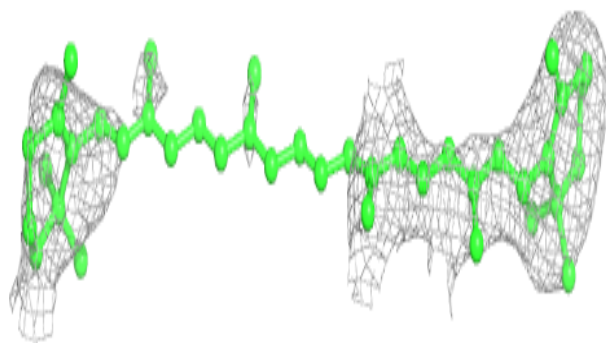
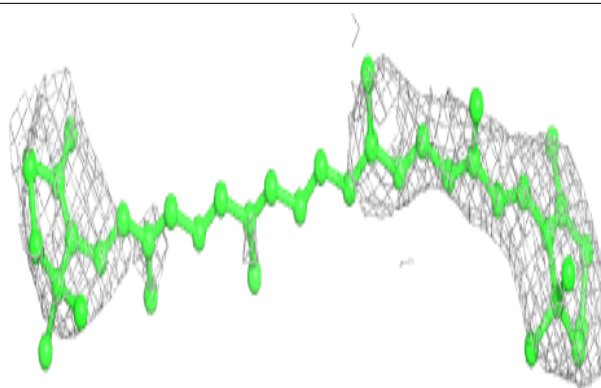
**Electron density around XAT 9 617:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

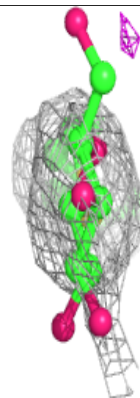
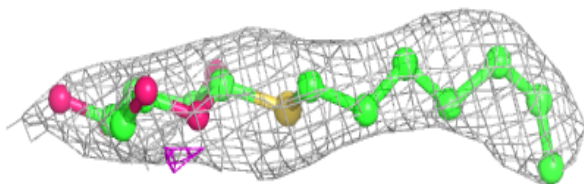
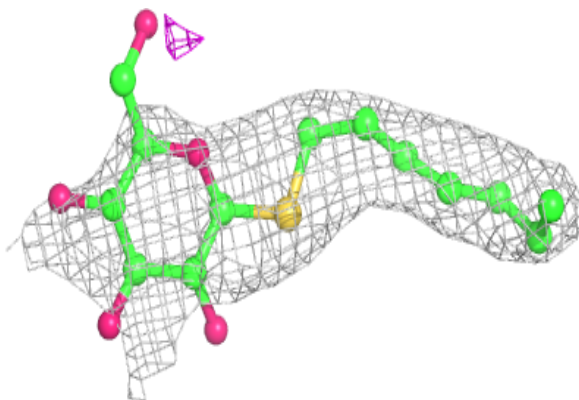


Electron density around BCR g 104:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

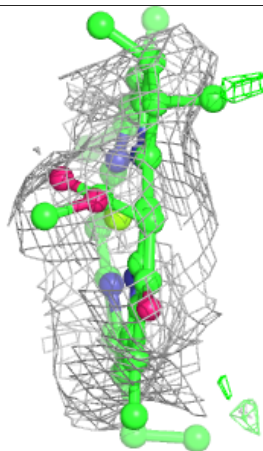
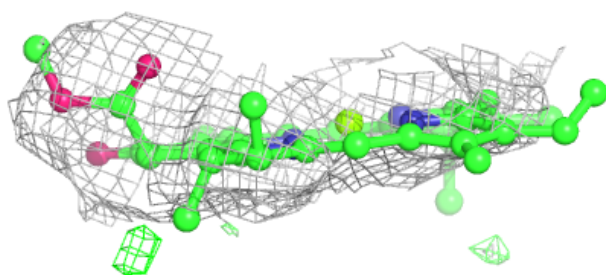
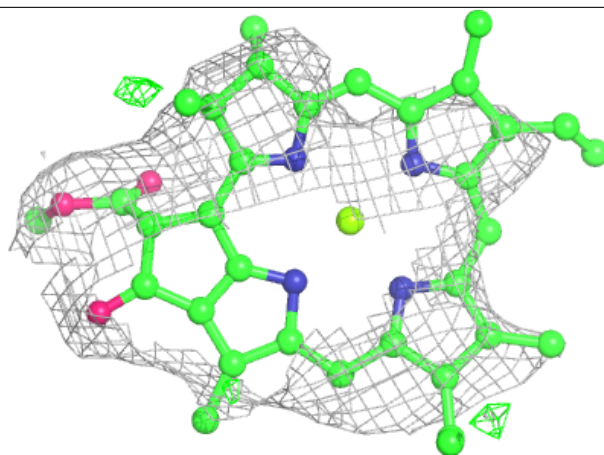
**Electron density around HTG f 7001:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



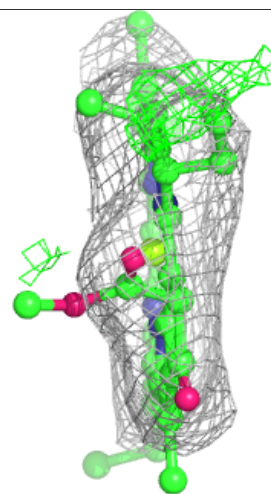
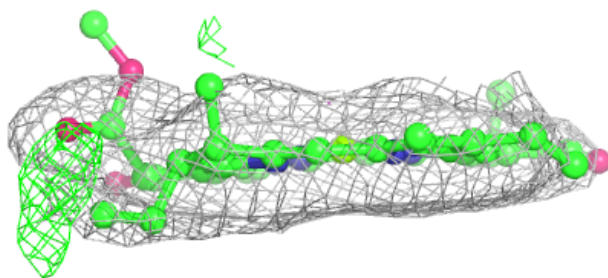
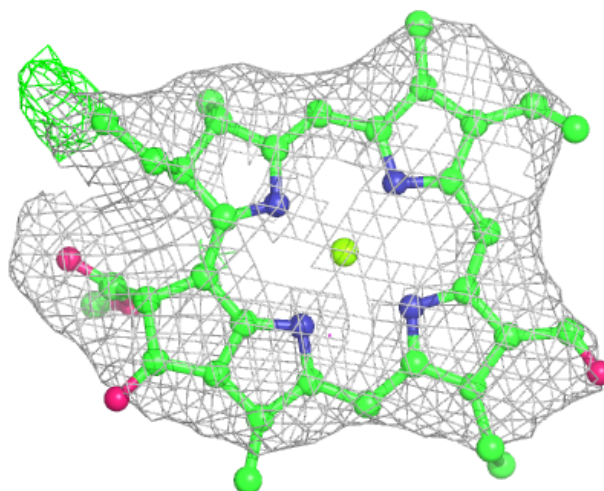
Electron density around CLA g 101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



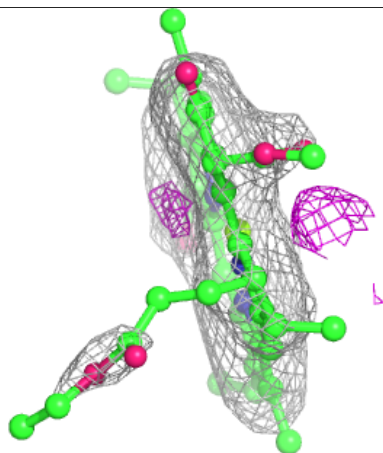
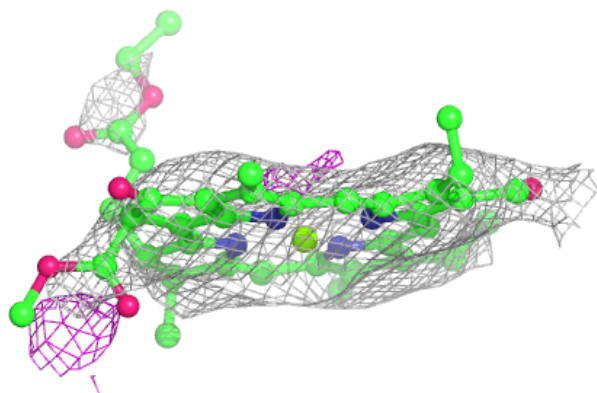
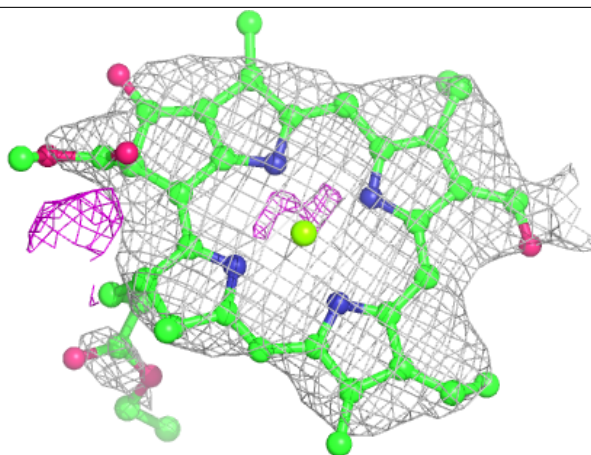
Electron density around CHL 2 605:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



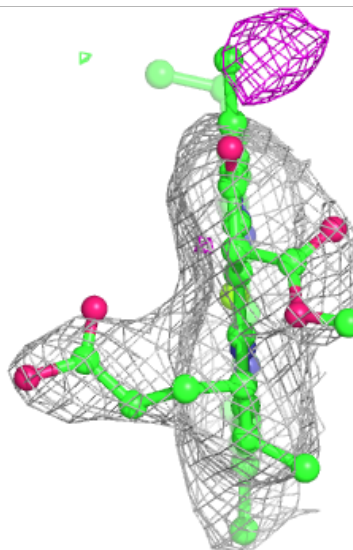
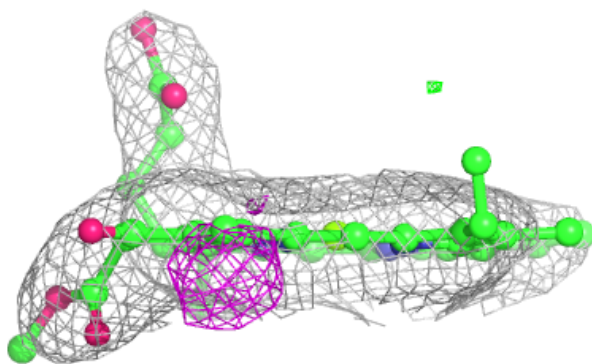
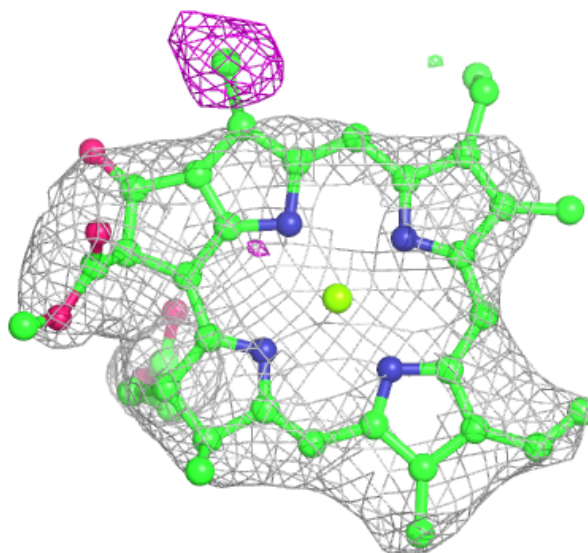
Electron density around CHL 2 606:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



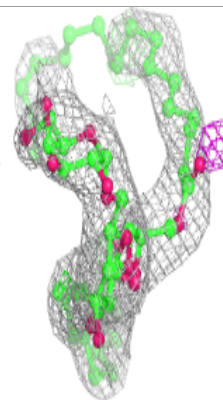
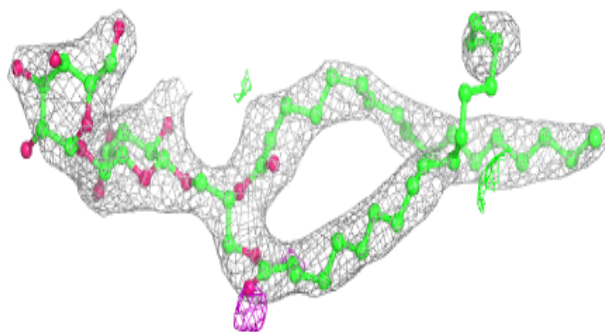
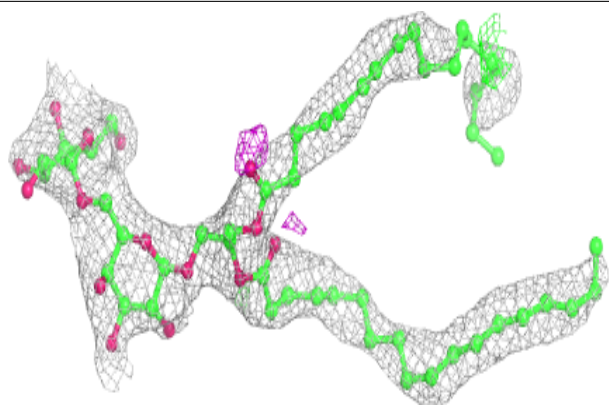
Electron density around CLA A 837:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

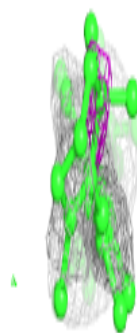
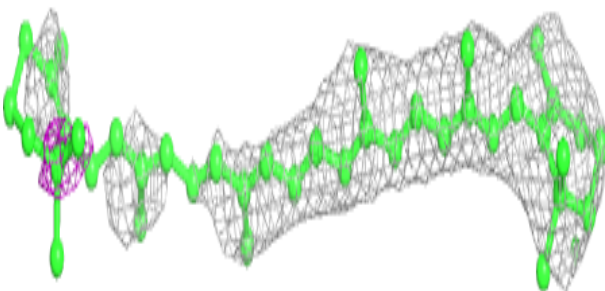
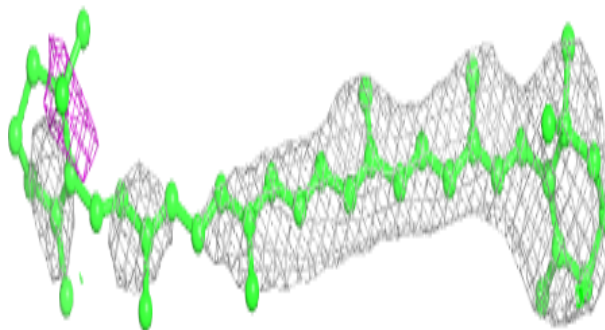


Electron density around DGD b 849:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

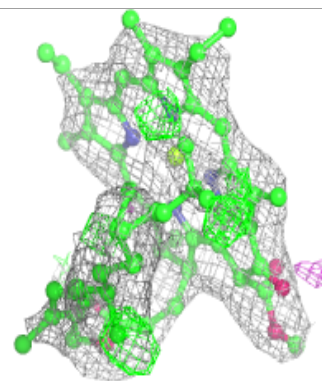
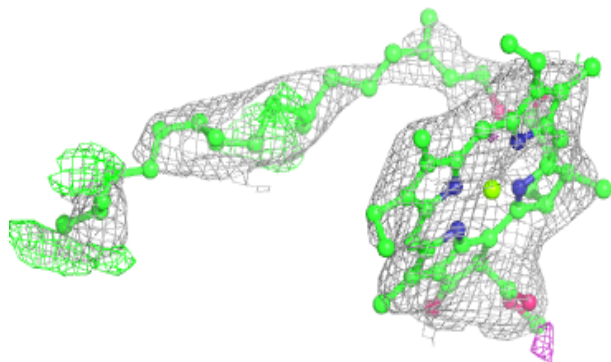
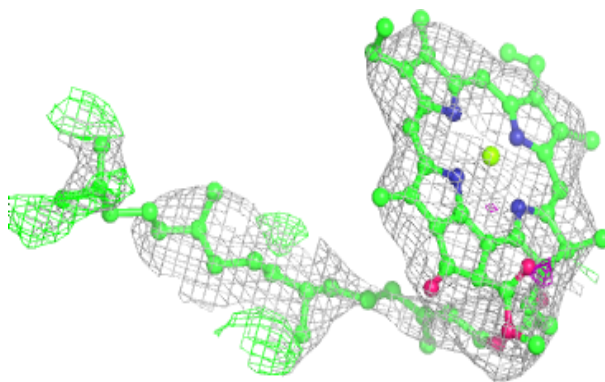
**Electron density around BCR a 852:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



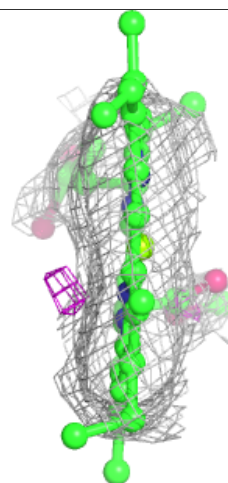
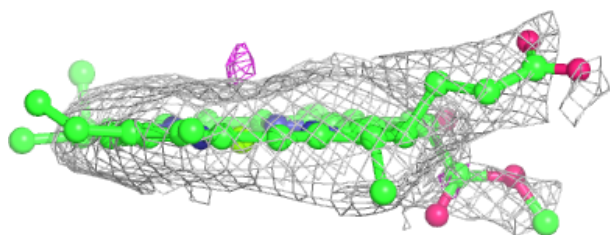
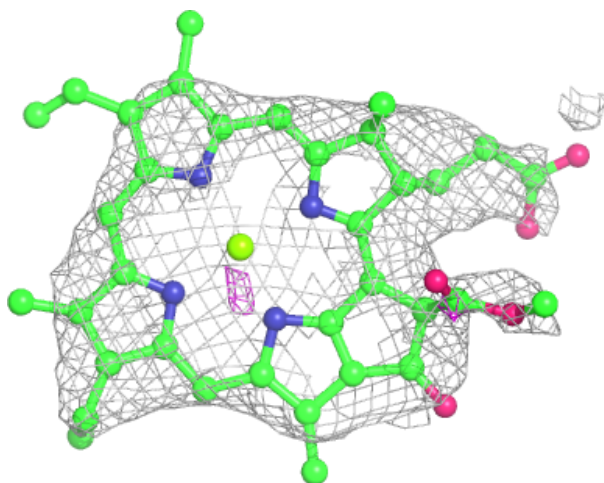
Electron density around CLA 1 309:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



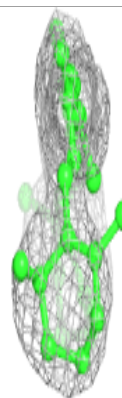
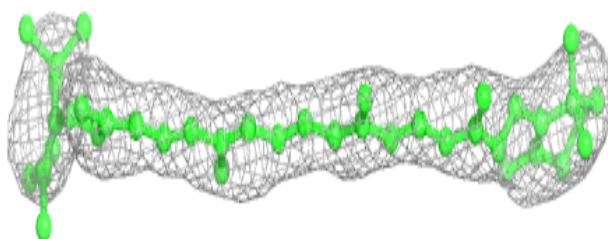
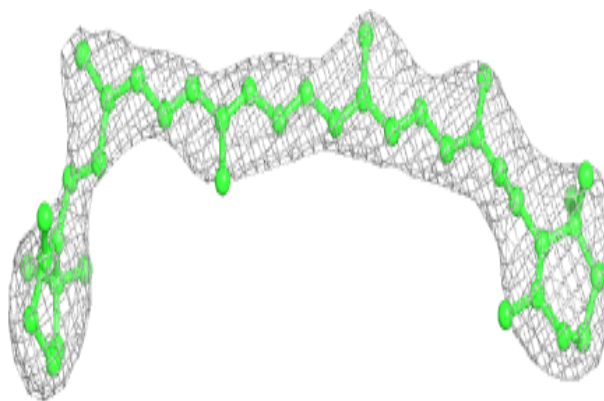
Electron density around CLA 3 313:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

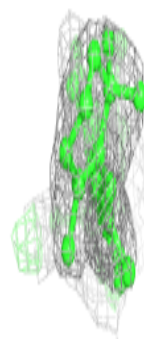
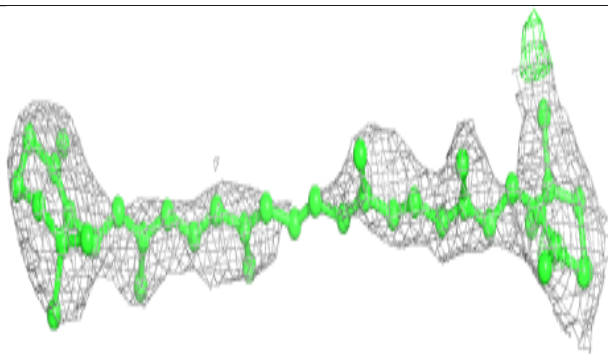
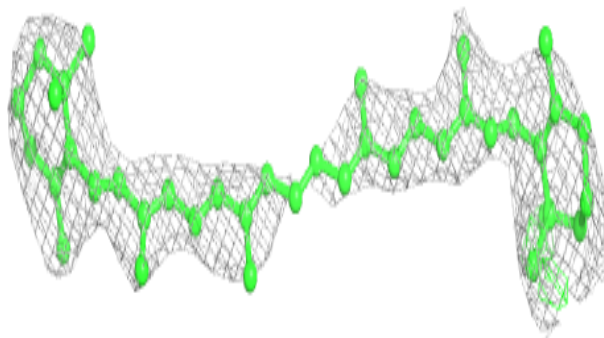


Electron density around BCR B 844:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

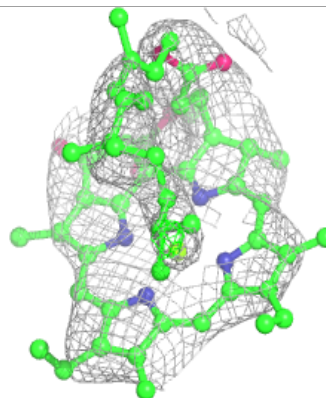
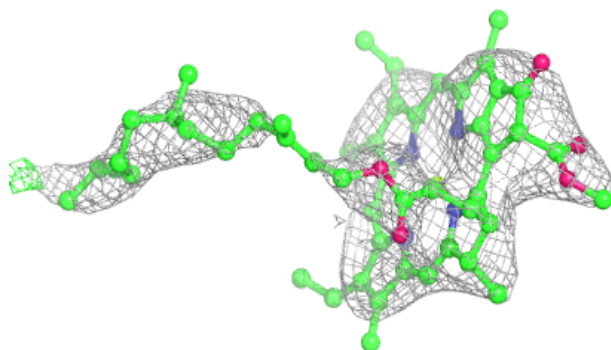
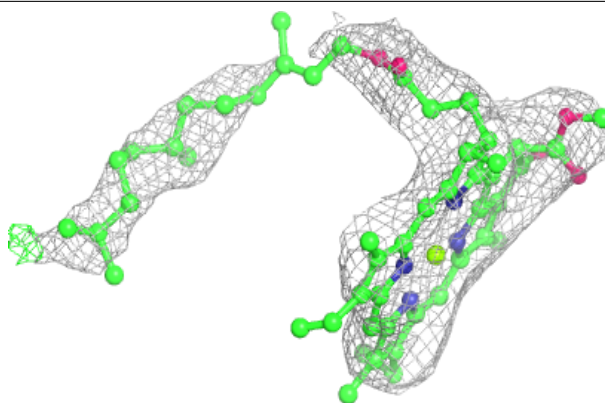
**Electron density around BCR k 1404:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

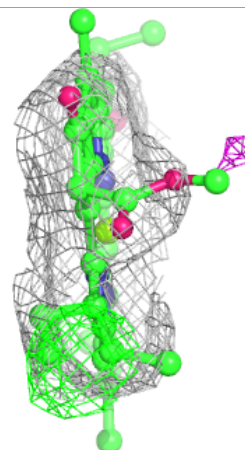
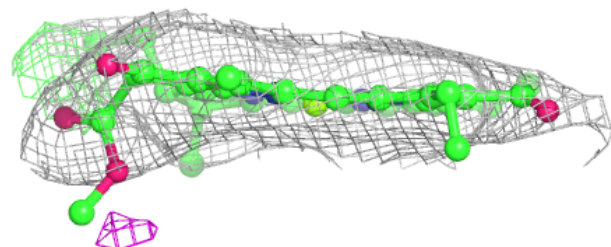
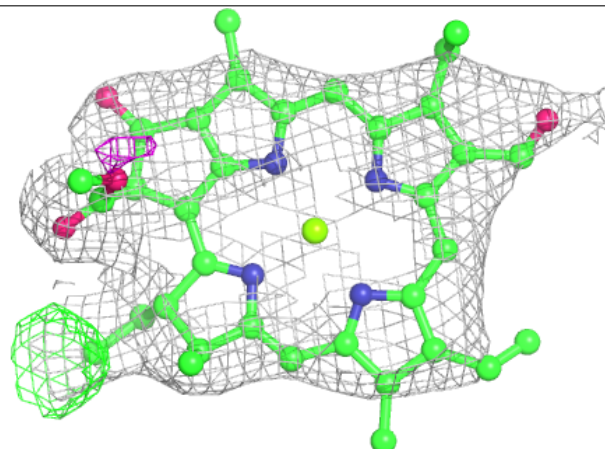


Electron density around CLA 7 604:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

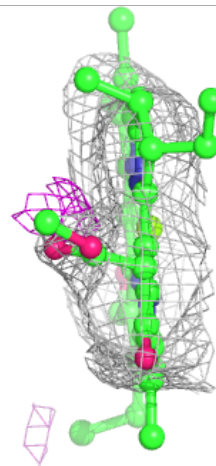
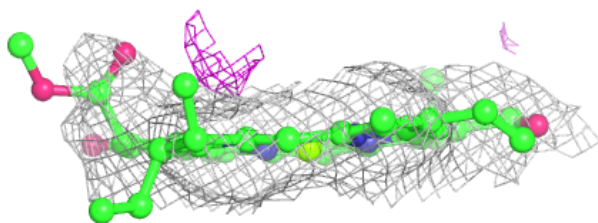
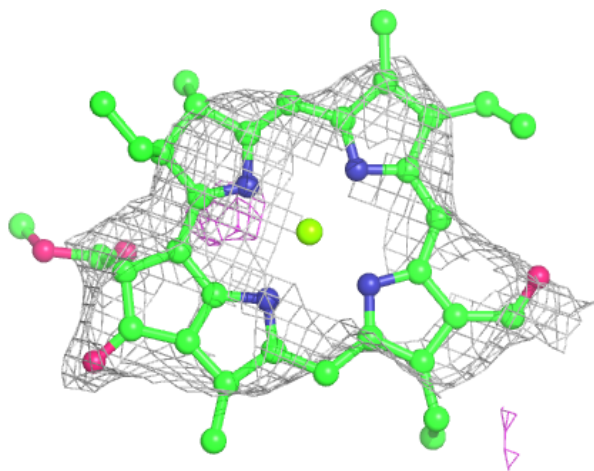
**Electron density around CHL 7 605:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



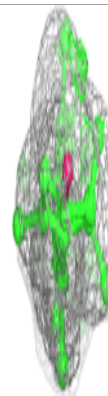
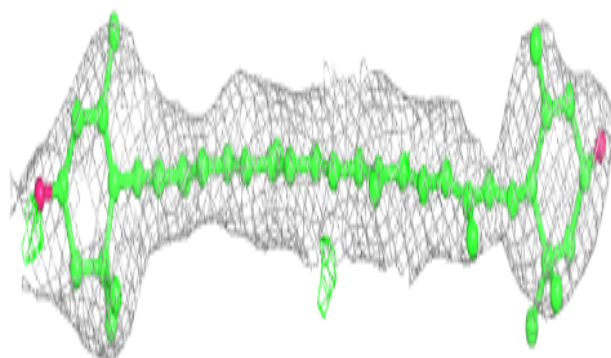
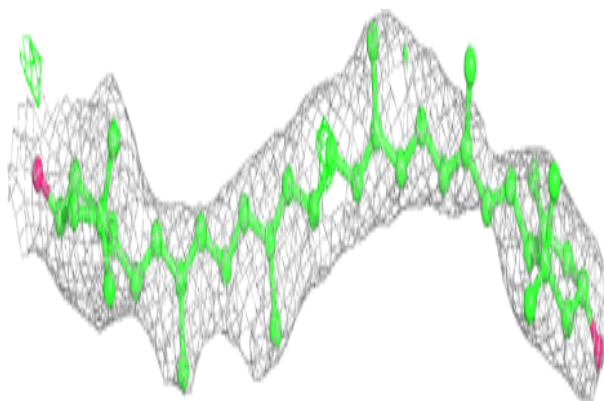
Electron density around CHL 9 615:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



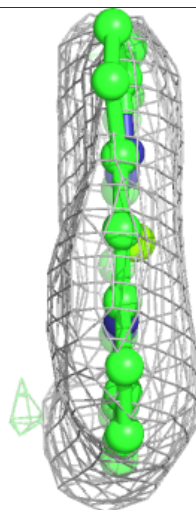
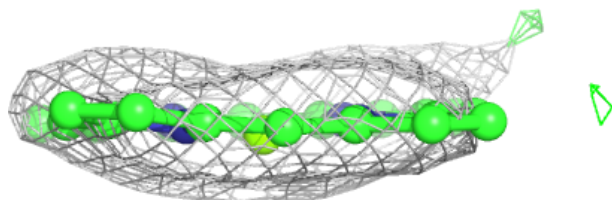
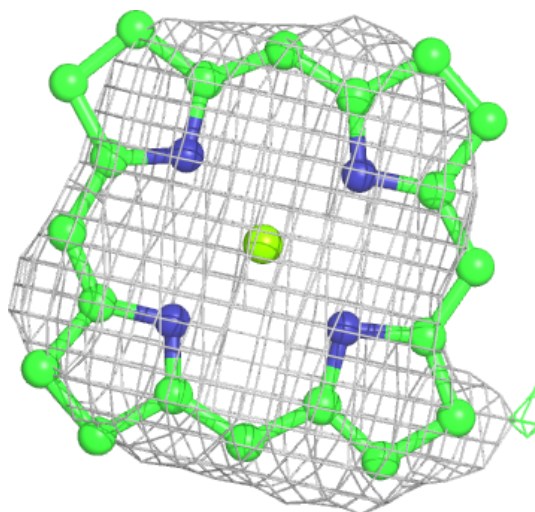
Electron density around LUT 1 320:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



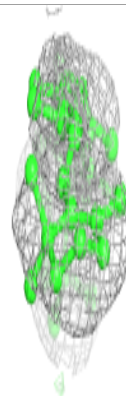
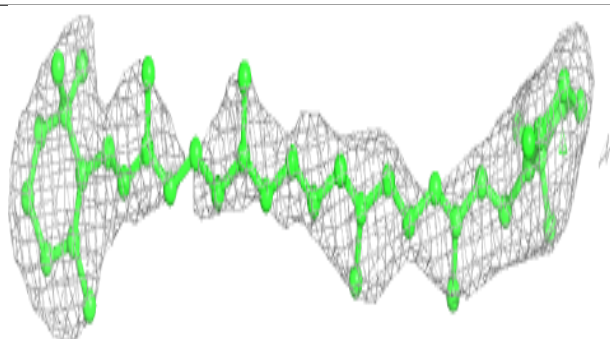
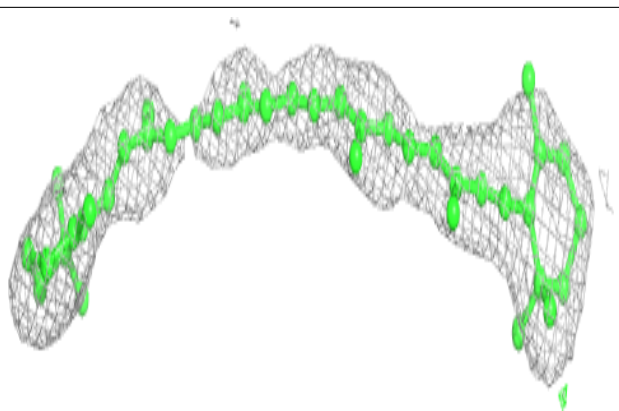
Electron density around CLA 3 315:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

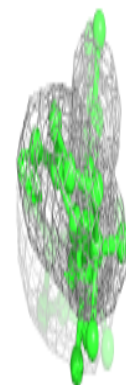
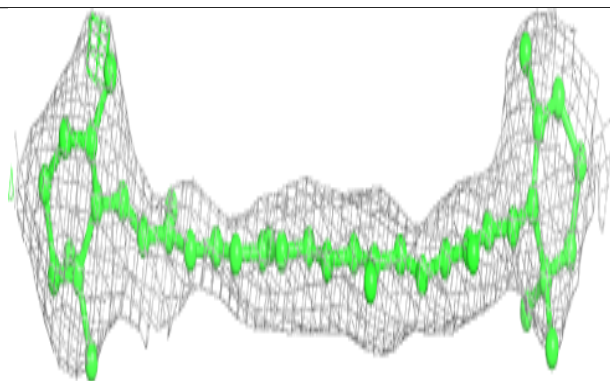
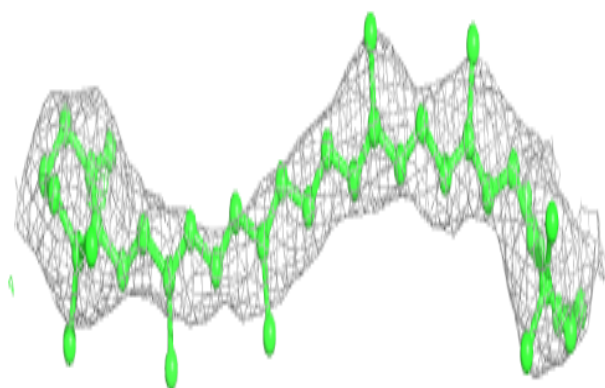


Electron density around BCR a 849:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

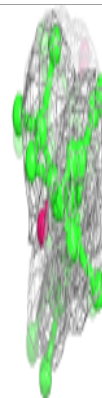
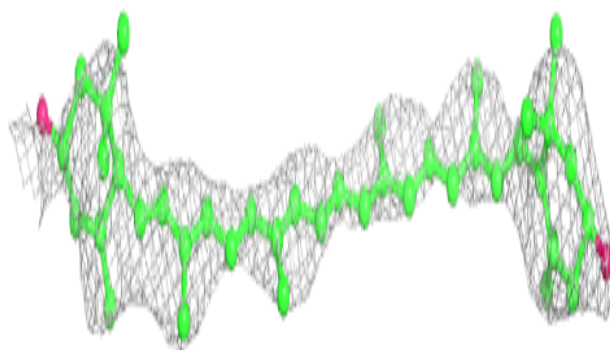
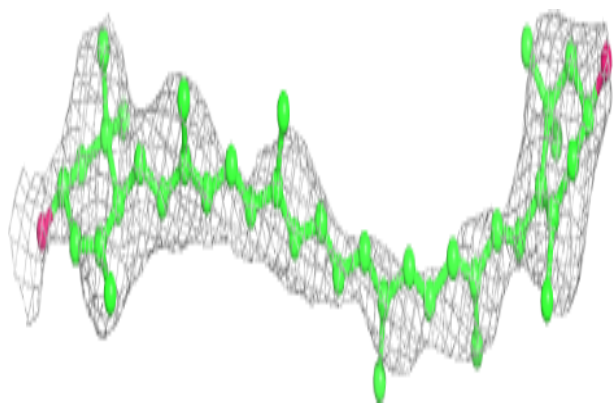
**Electron density around BCR 8 316:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

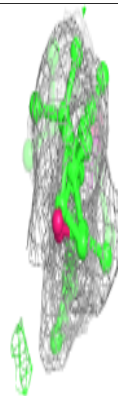
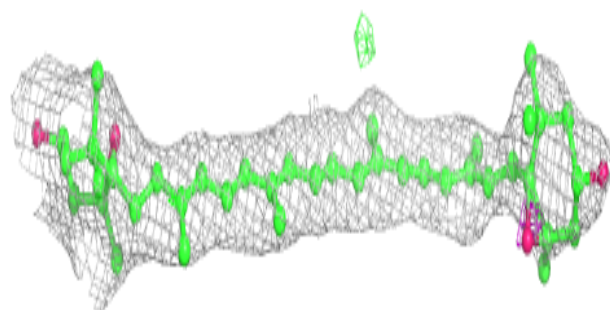
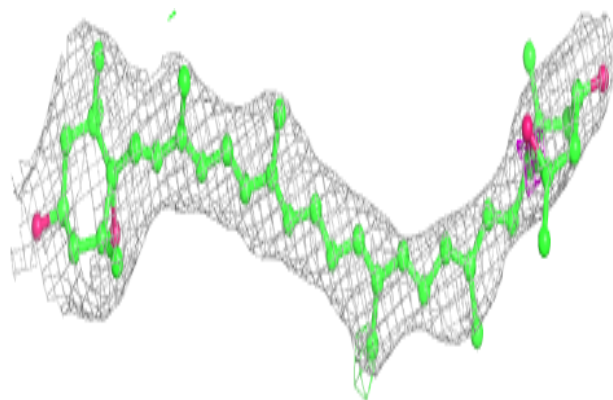


Electron density around LUT 7 615:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

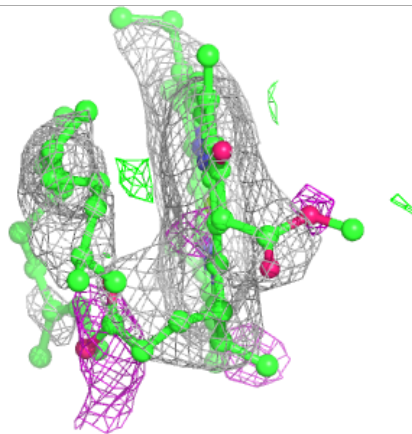
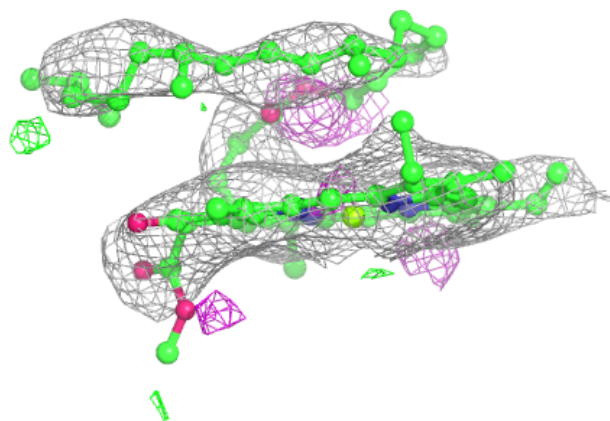
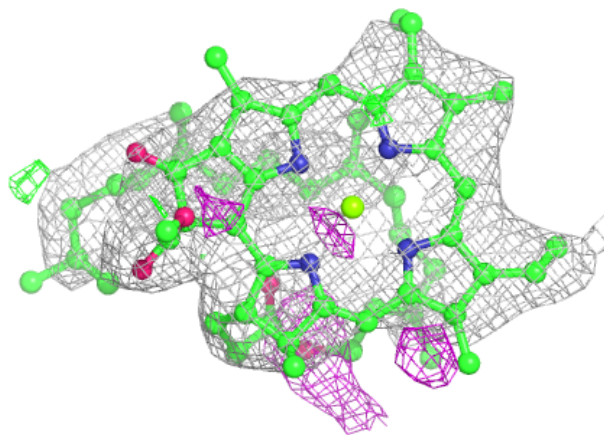
**Electron density around XAT 3 317:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



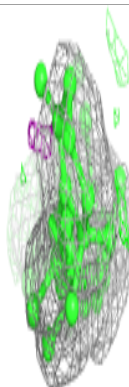
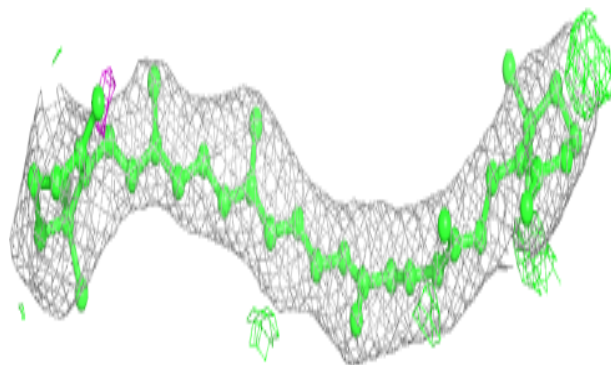
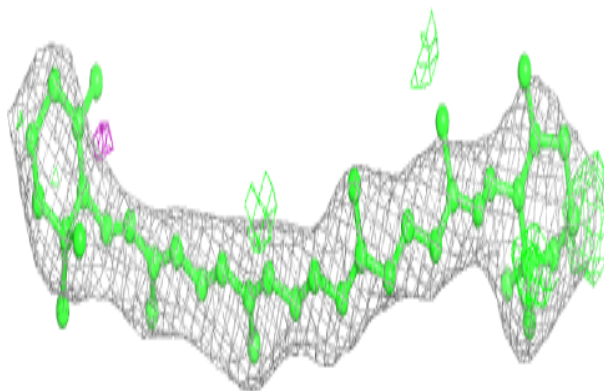
Electron density around CLA 1 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

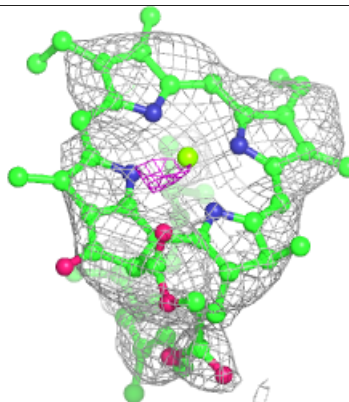
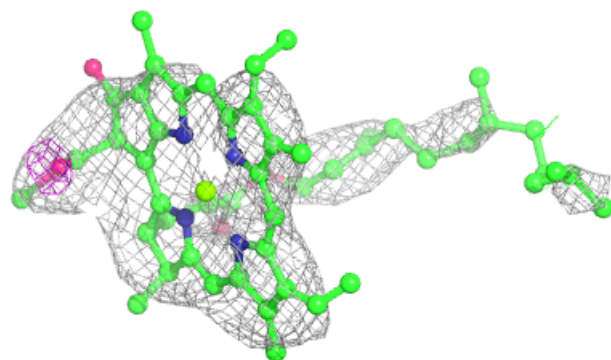
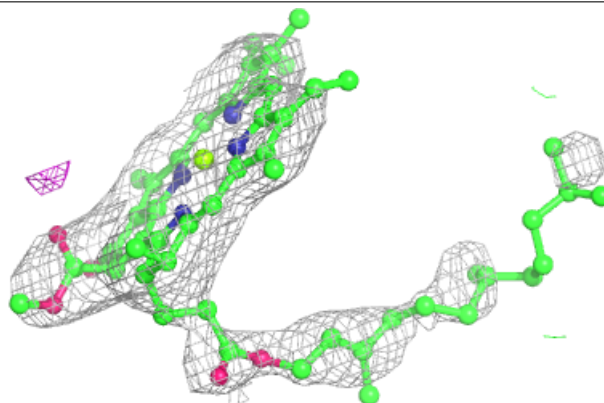


Electron density around BCR j 3004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

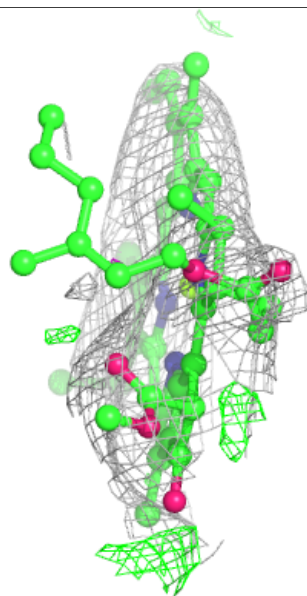
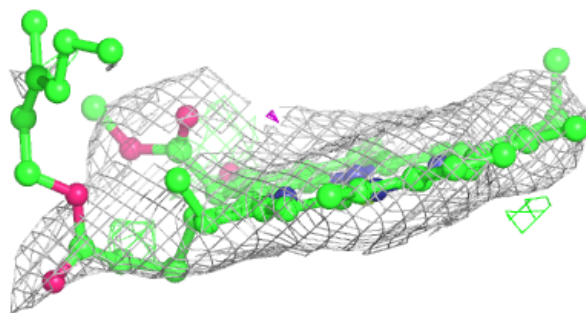
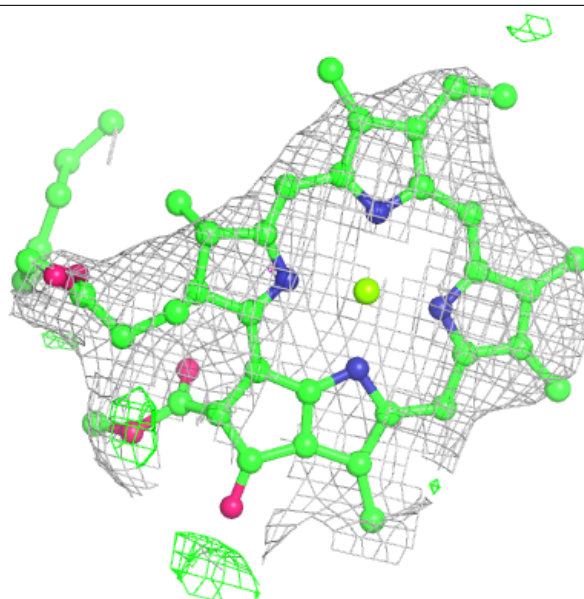
**Electron density around CLA 2 604:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



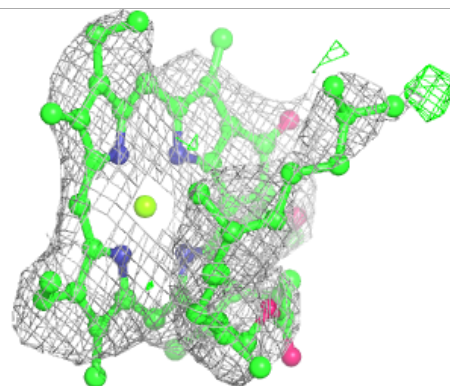
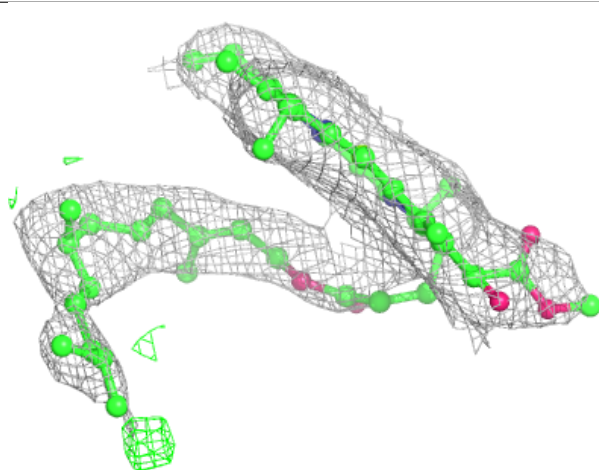
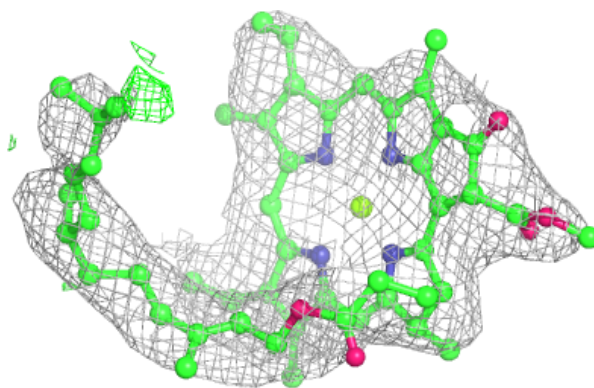
Electron density around CLA 6 313:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



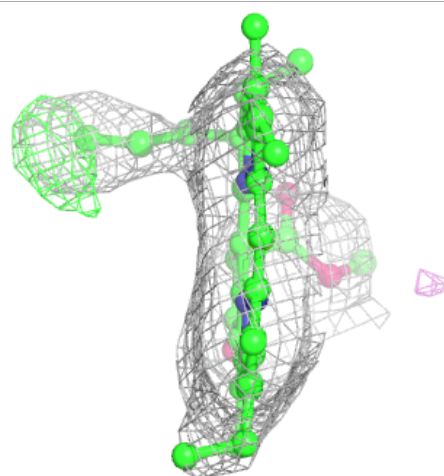
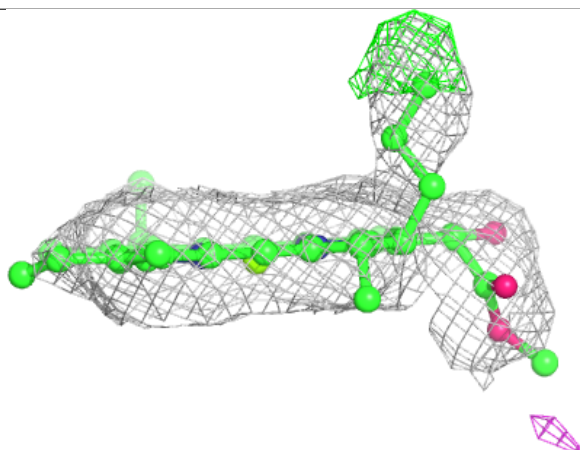
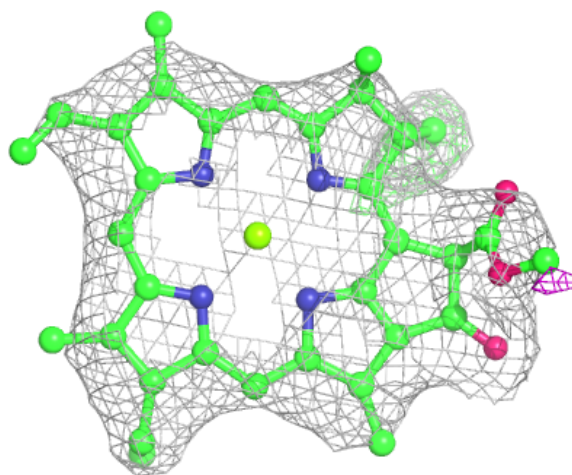
Electron density around CLA 2 609:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



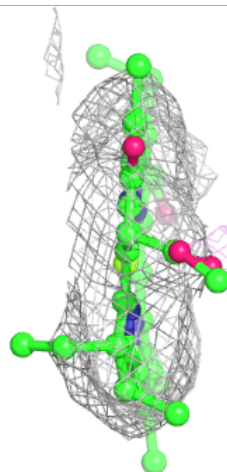
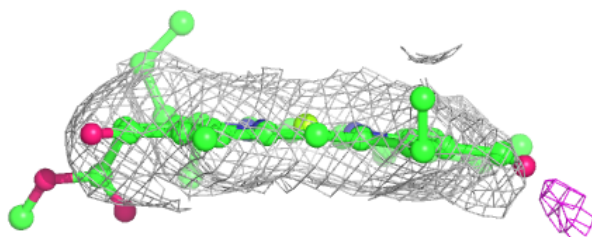
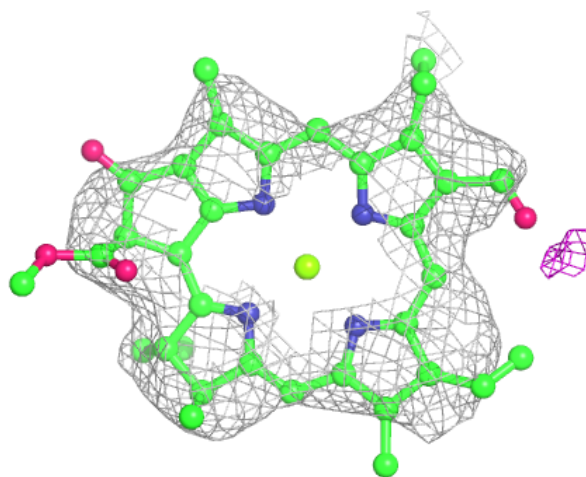
Electron density around CLA 2 613:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



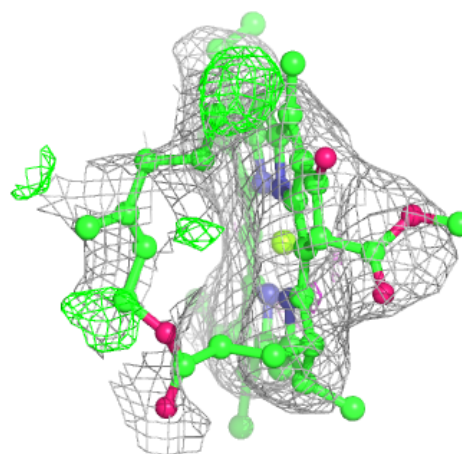
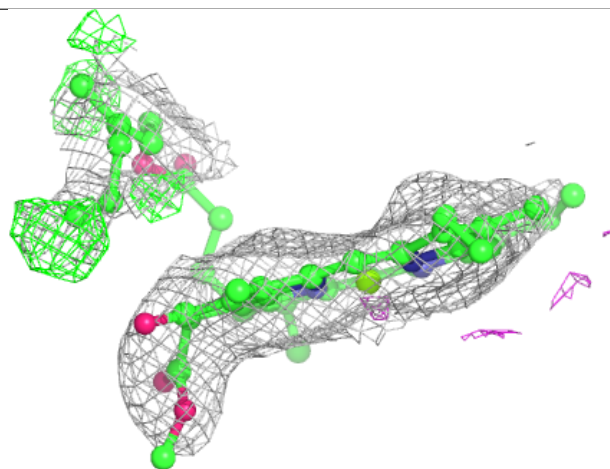
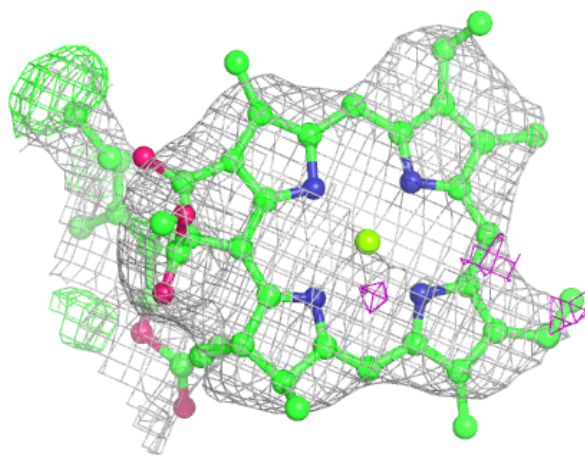
Electron density around CHL 2 614:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



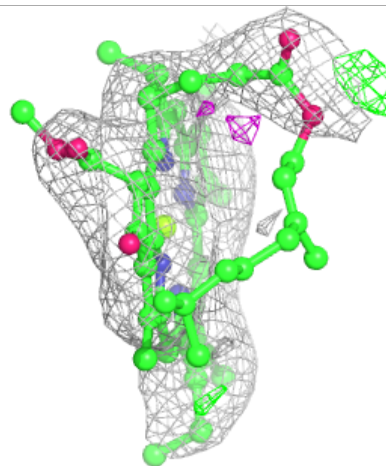
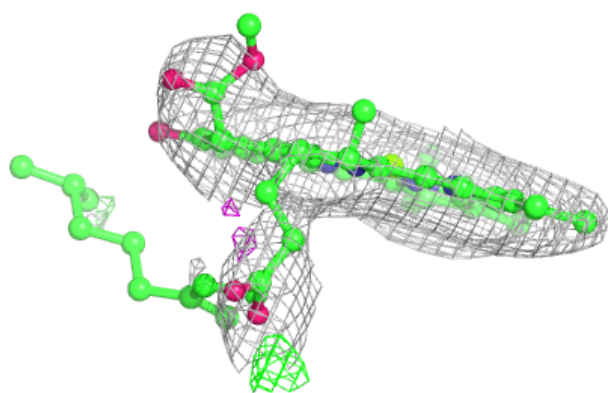
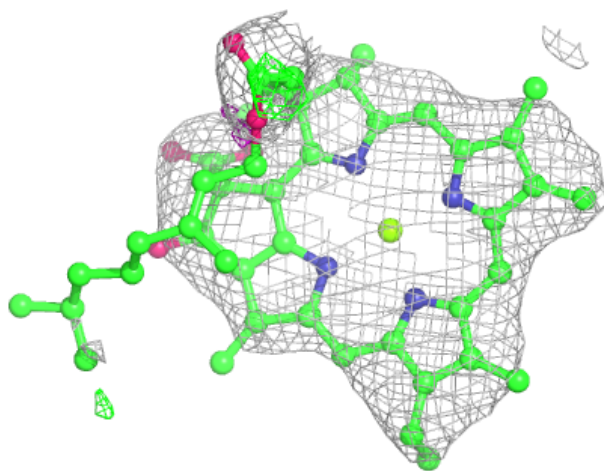
Electron density around CLA a 846:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



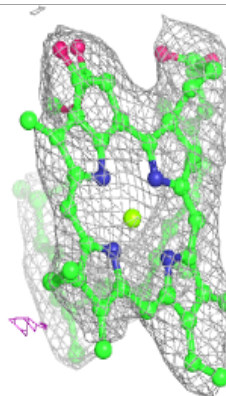
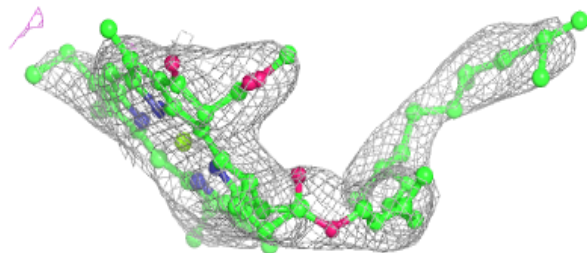
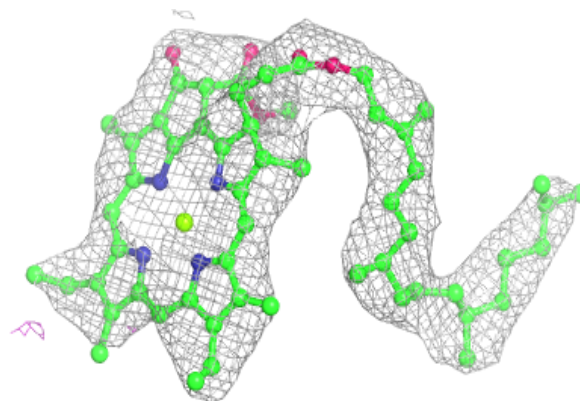
Electron density around CLA b 811:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

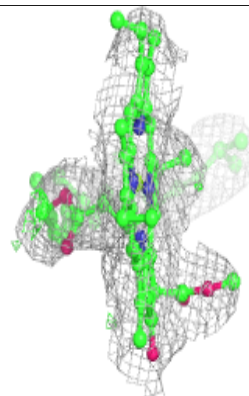
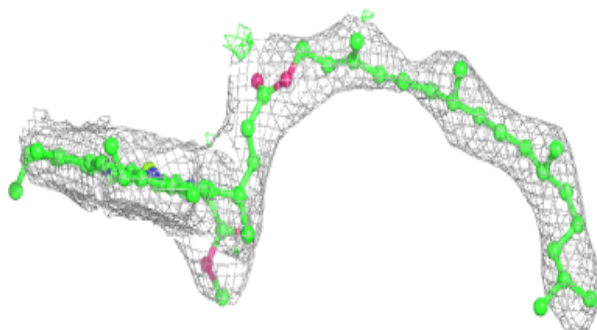
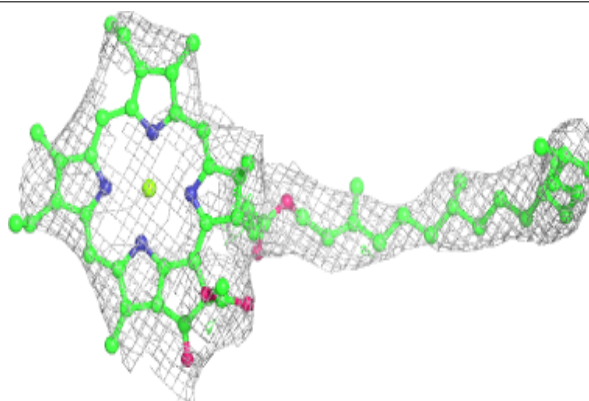


Electron density around CLA b 824:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

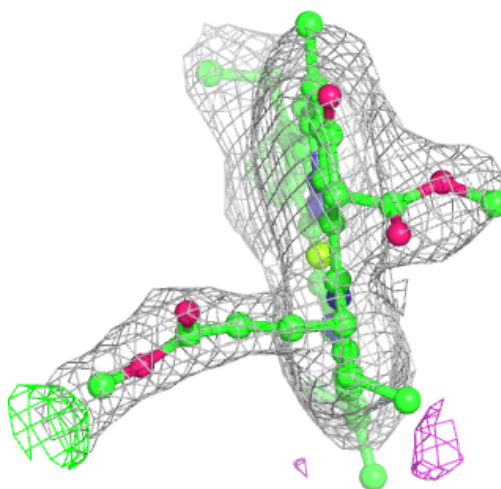
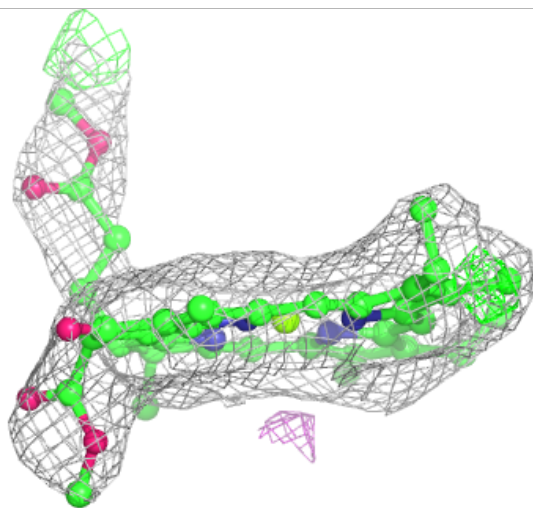
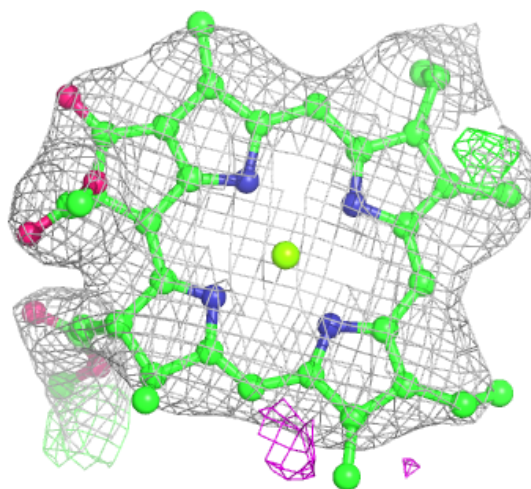
**Electron density around CLA b 841:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



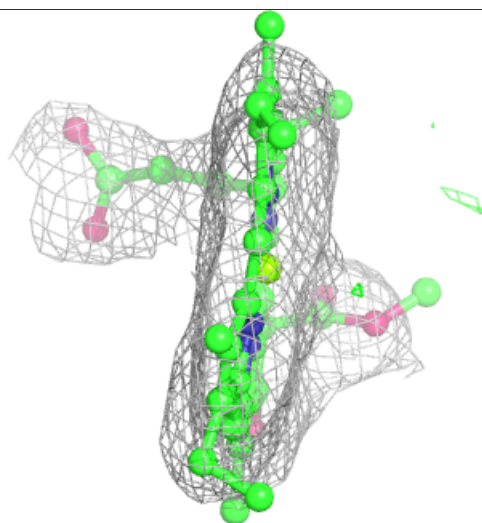
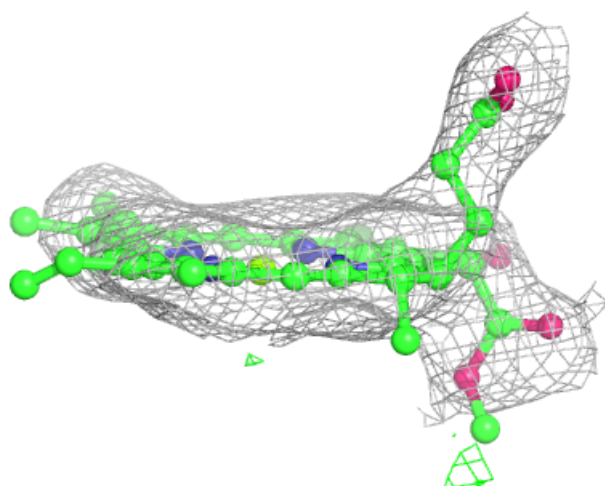
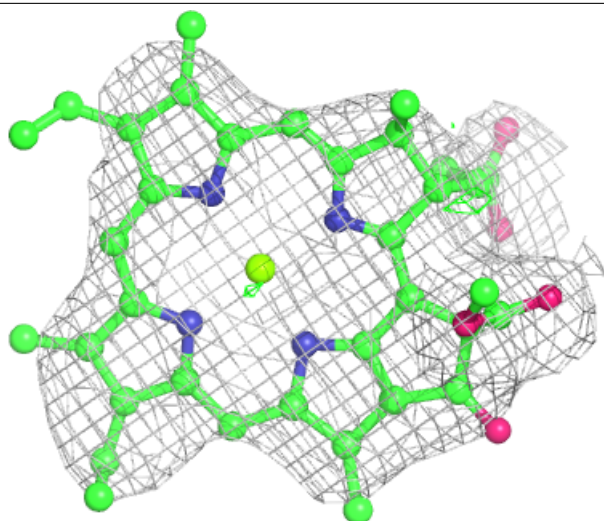
Electron density around CLA B 821:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



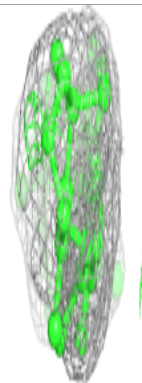
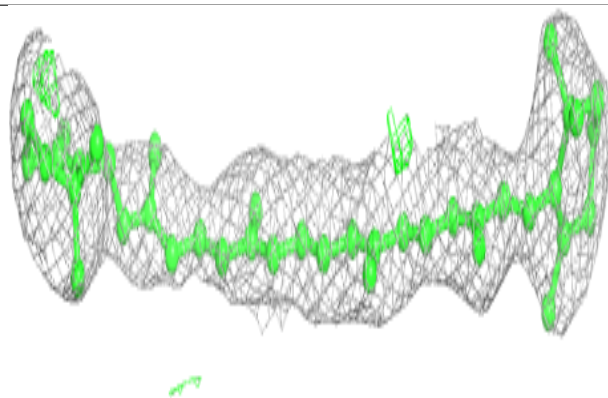
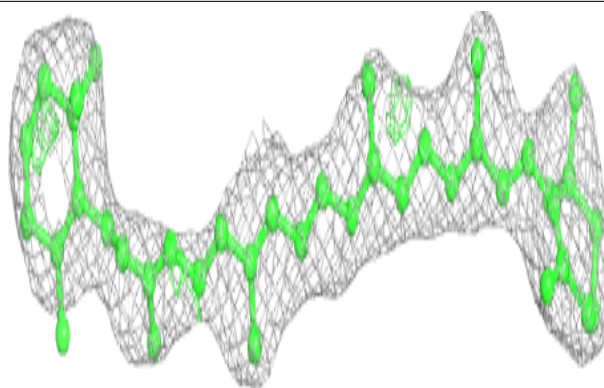
Electron density around CLA k 1401:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

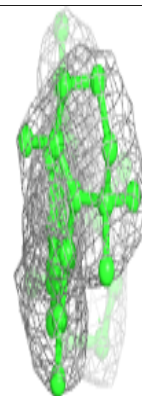
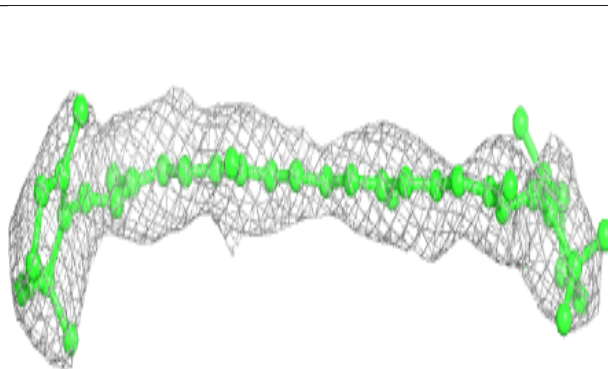
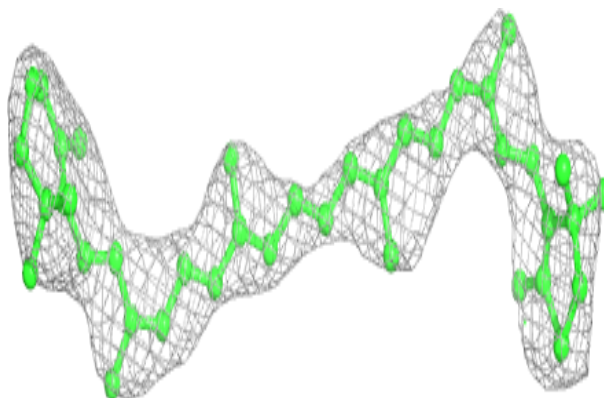


Electron density around BCR A 851:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

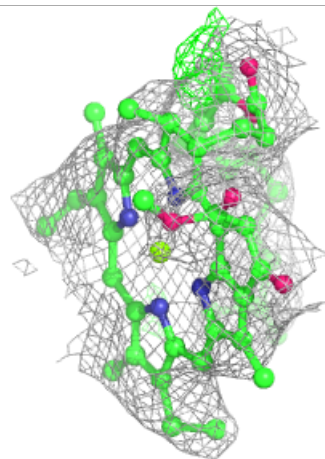
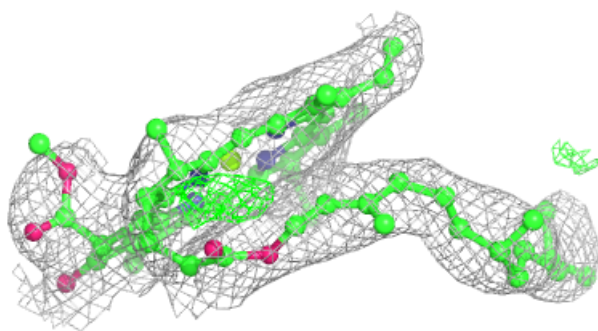
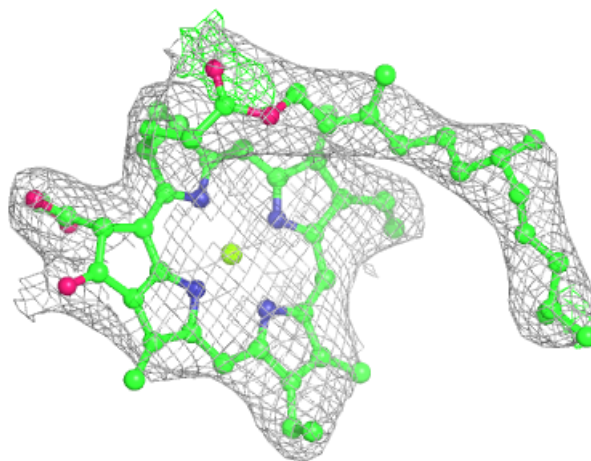
**Electron density around BCR b 845:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



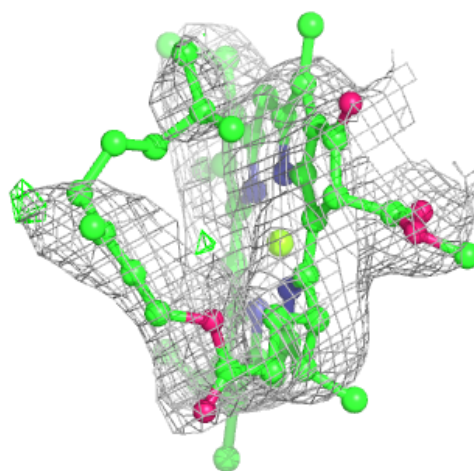
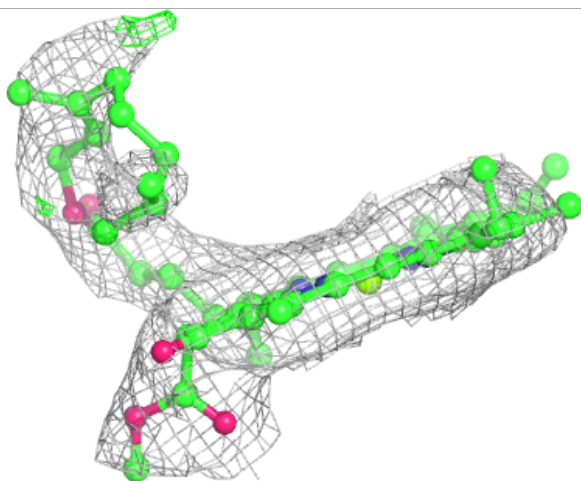
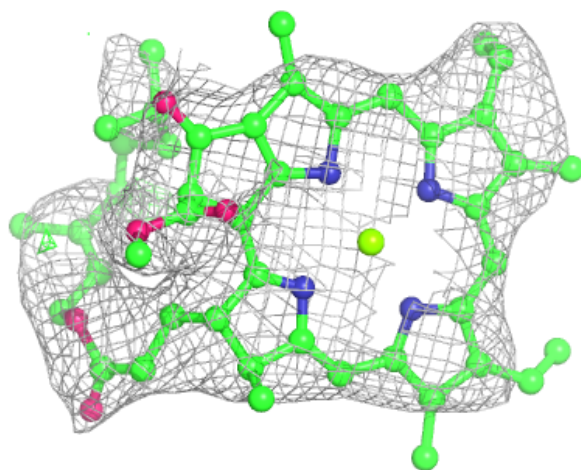
Electron density around CLA 3 302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



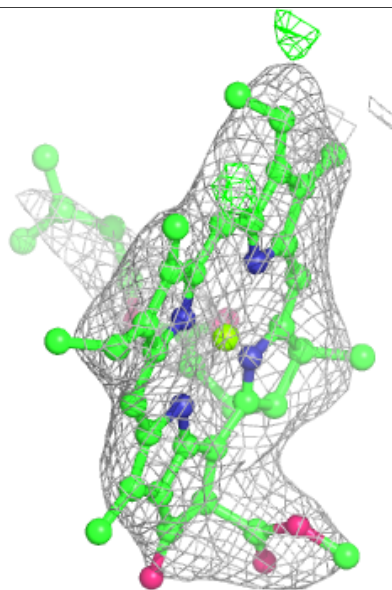
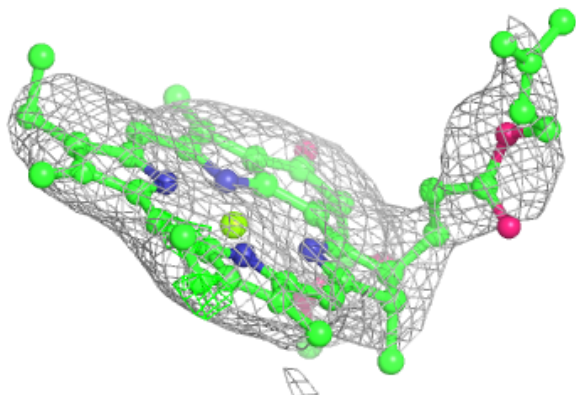
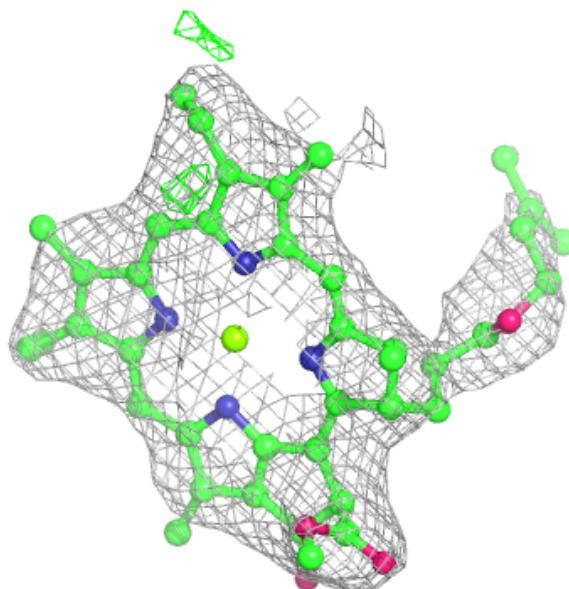
Electron density around CLA 1 314:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



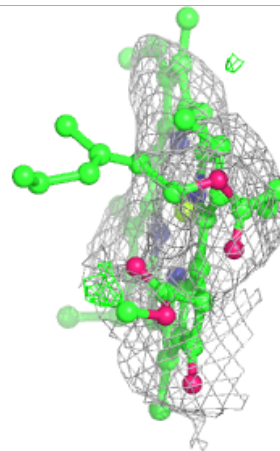
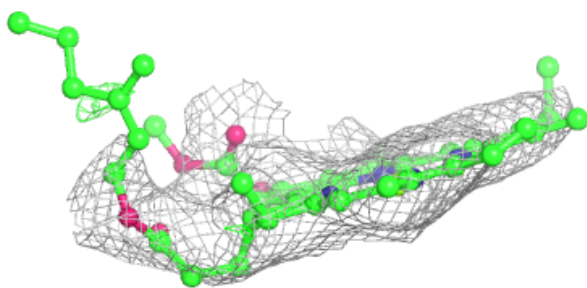
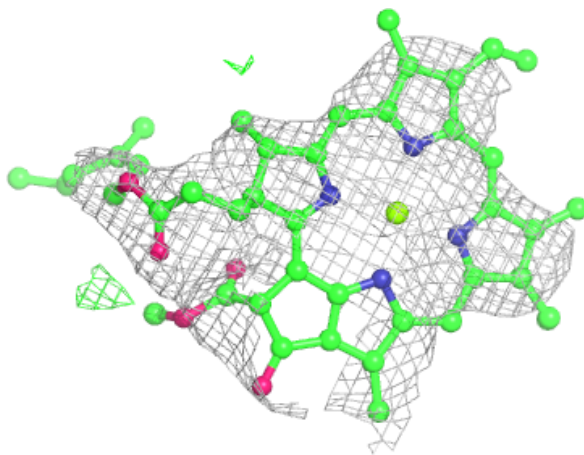
Electron density around CLA A 832:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



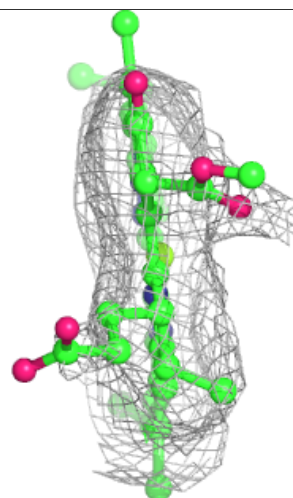
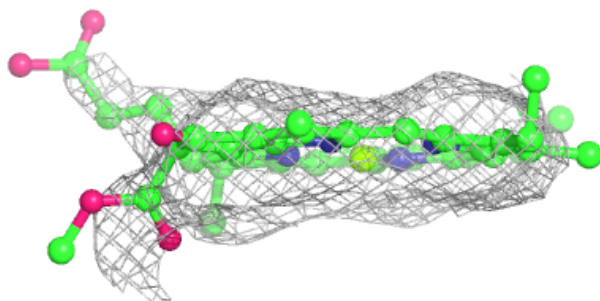
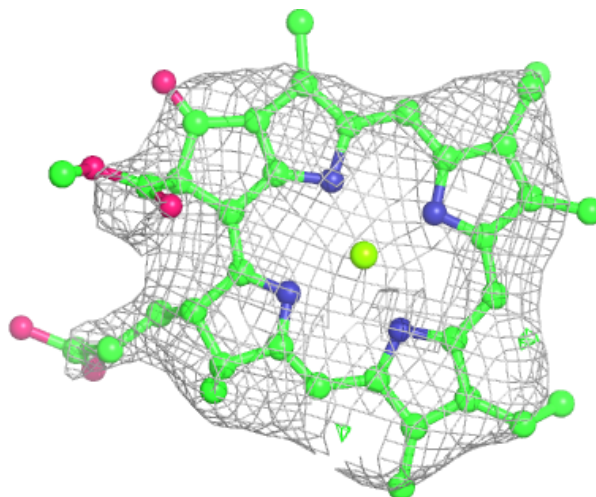
Electron density around CLA 3 311:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



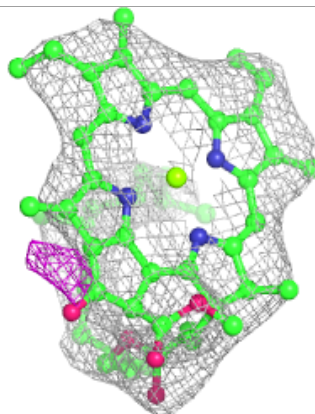
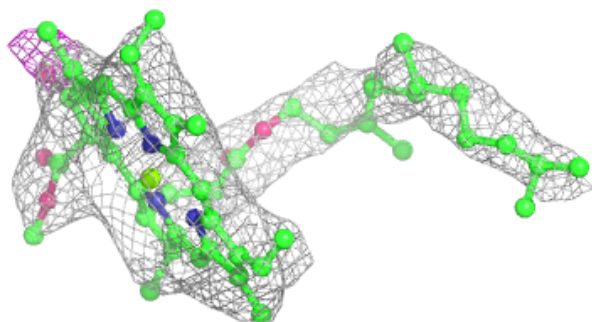
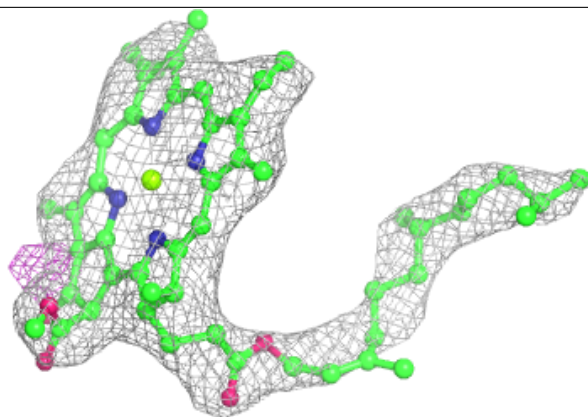
Electron density around CLA 8 311:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



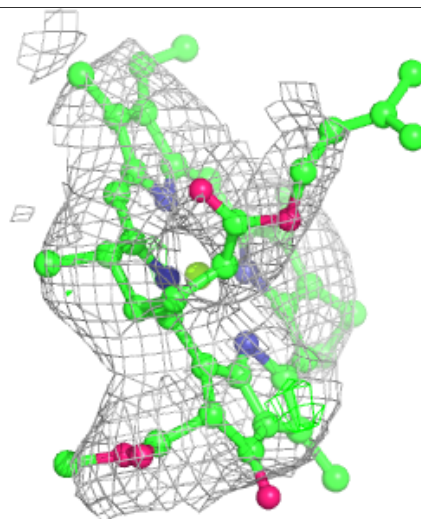
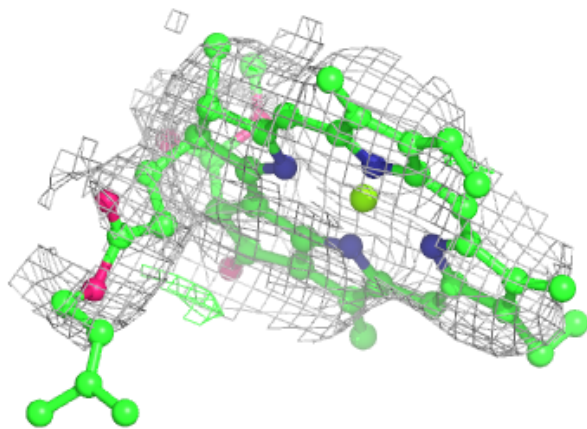
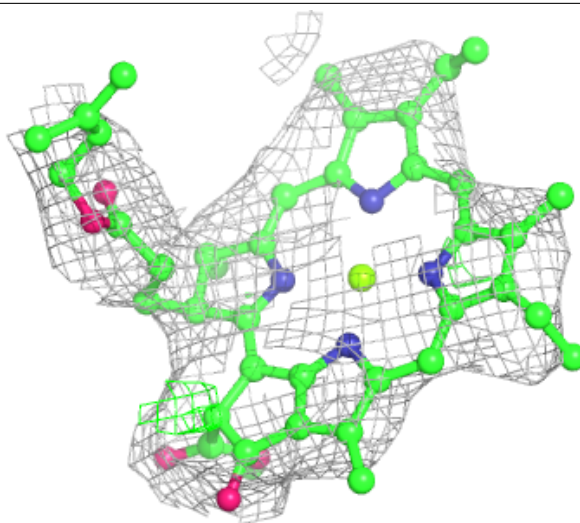
Electron density around CLA B 815:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



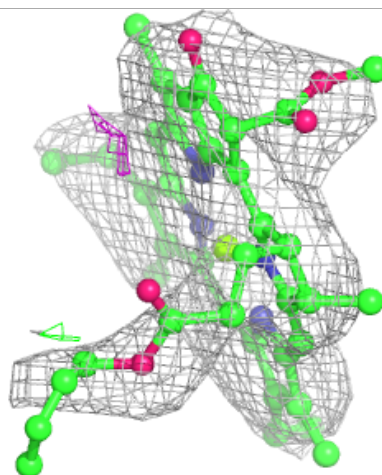
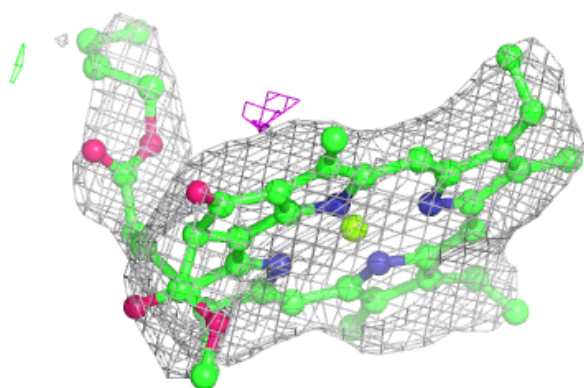
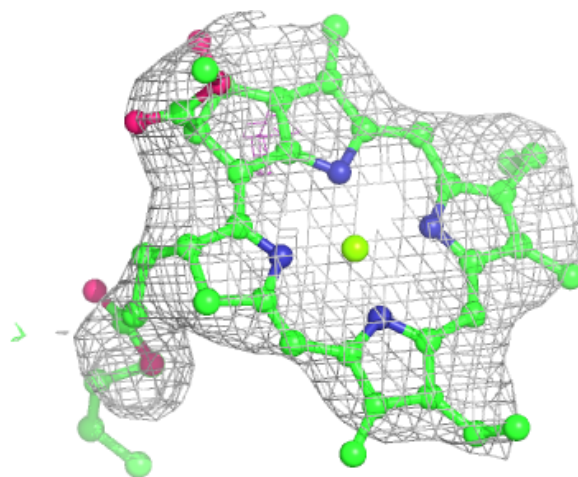
Electron density around CLA 9 604:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



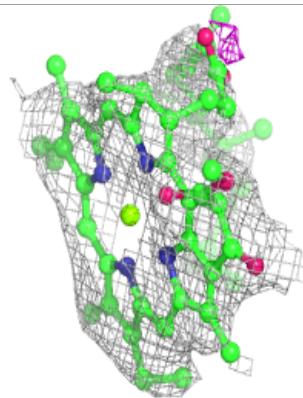
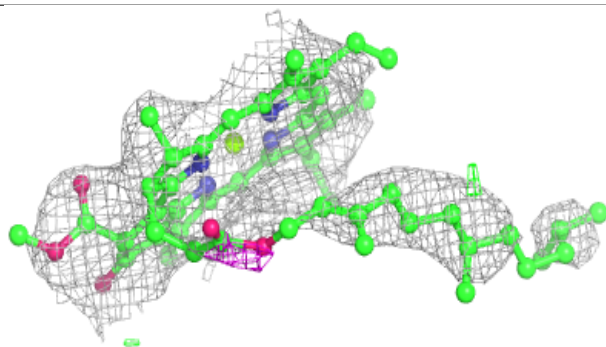
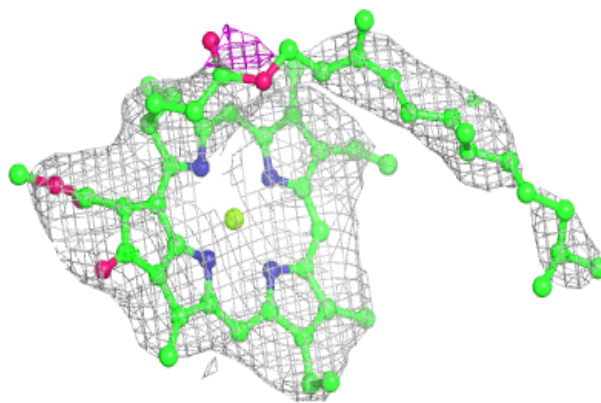
Electron density around CLA A 823:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



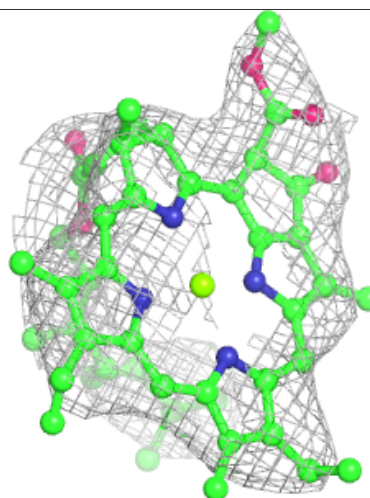
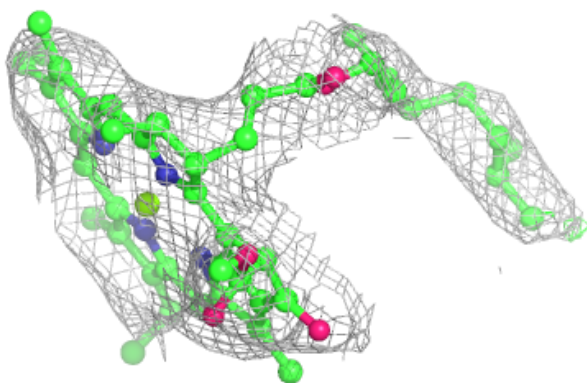
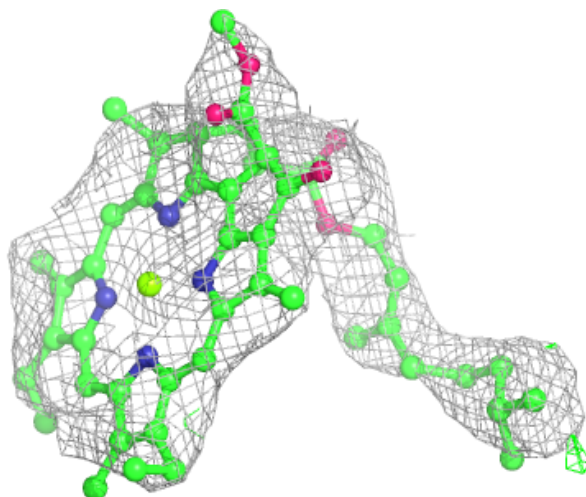
Electron density around CLA 4 609:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



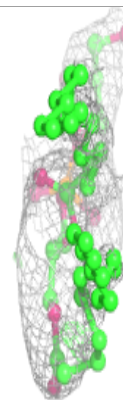
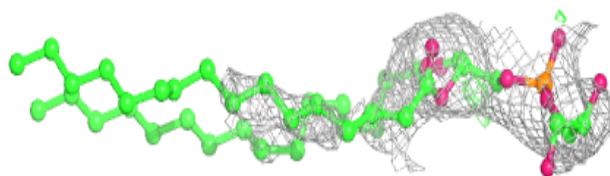
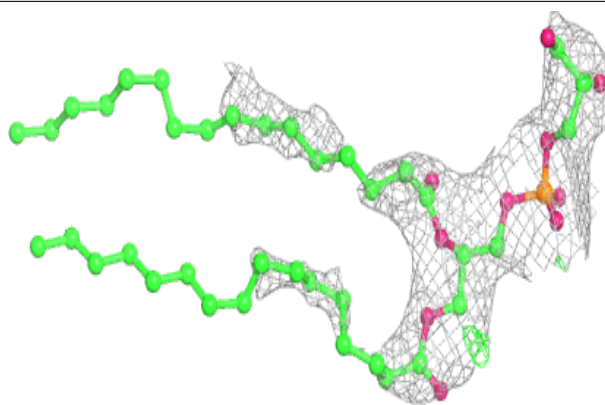
Electron density around CLA 4 610:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

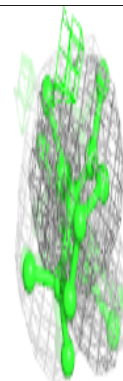
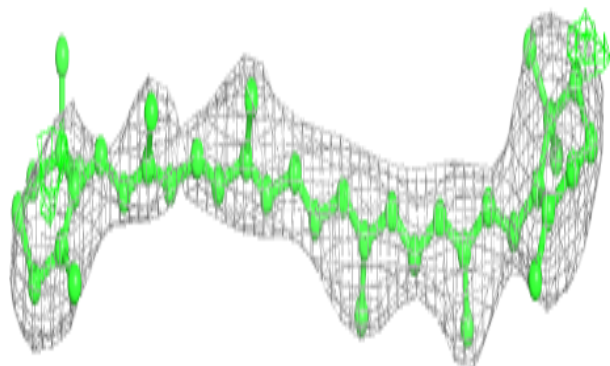
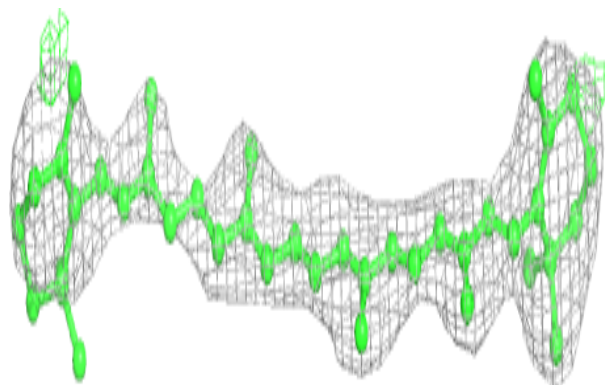


Electron density around LHG 6 320:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

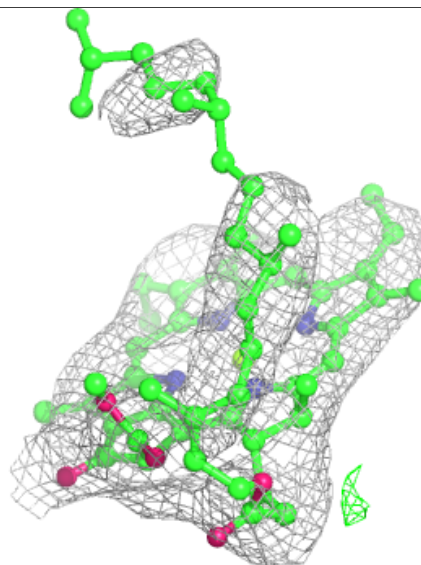
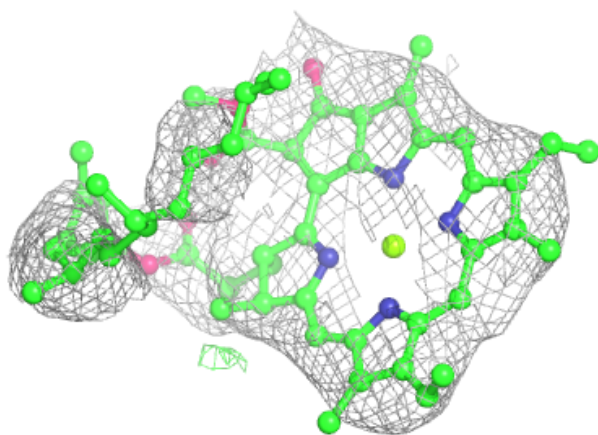
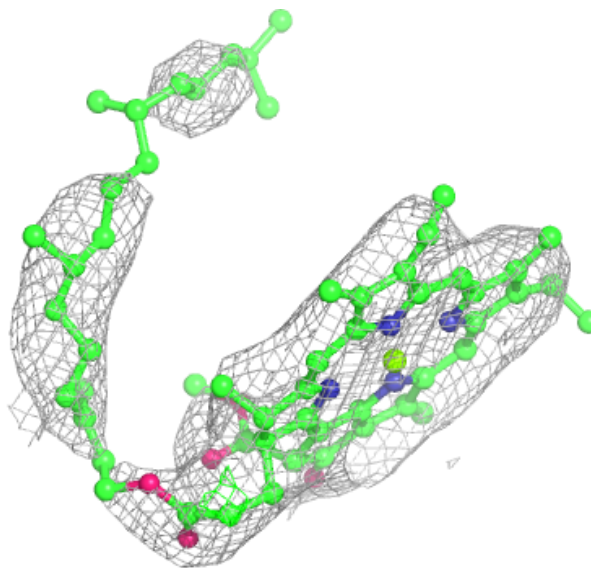
**Electron density around BCR A 848:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



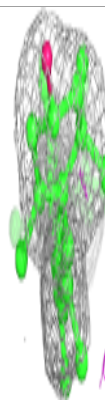
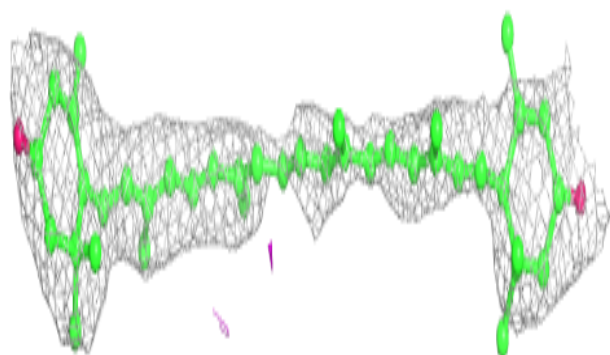
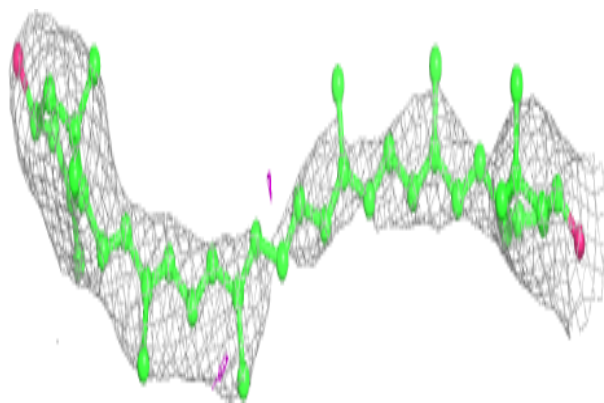
Electron density around CLA 6 305:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

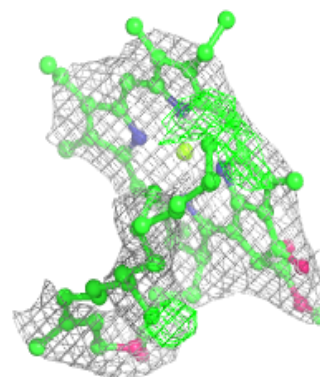
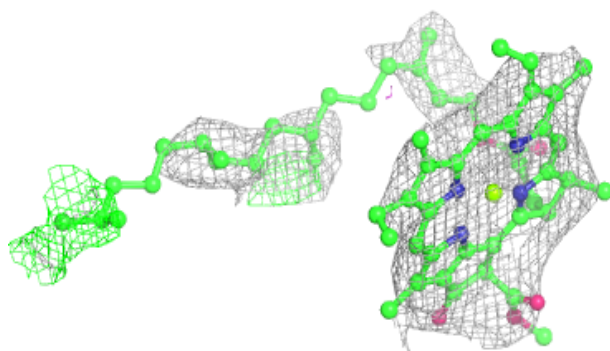
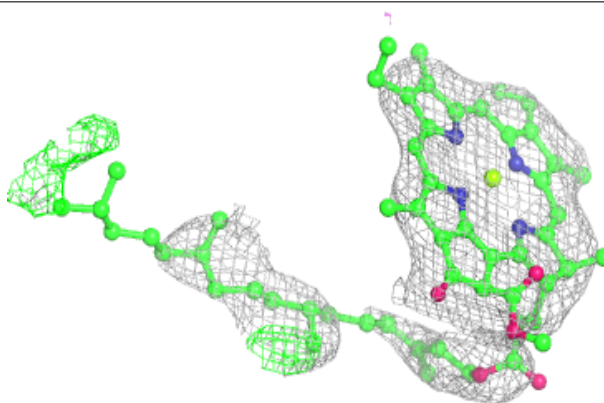


Electron density around LUT 9 616:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

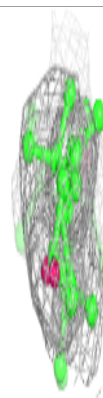
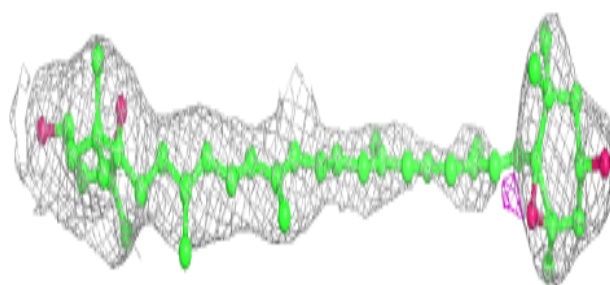
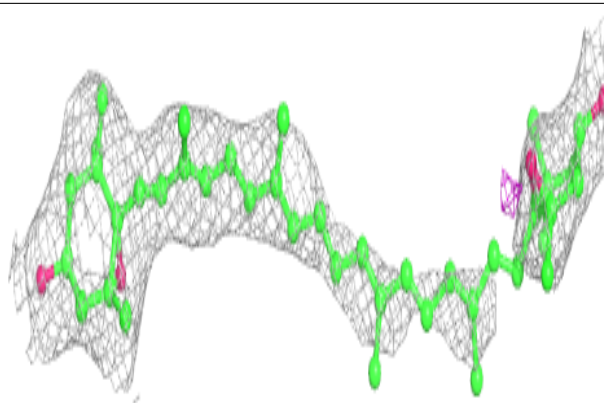
**Electron density around CLA 6 310:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

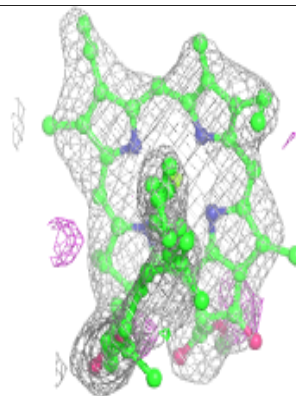
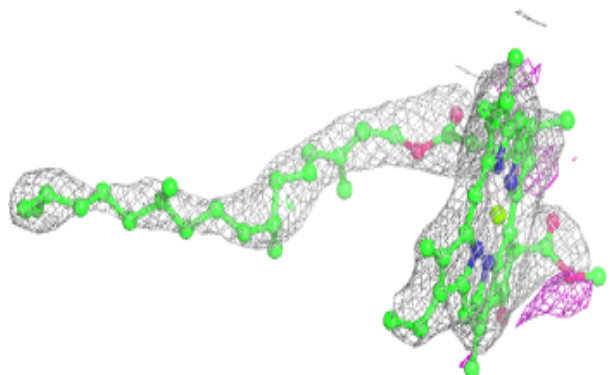
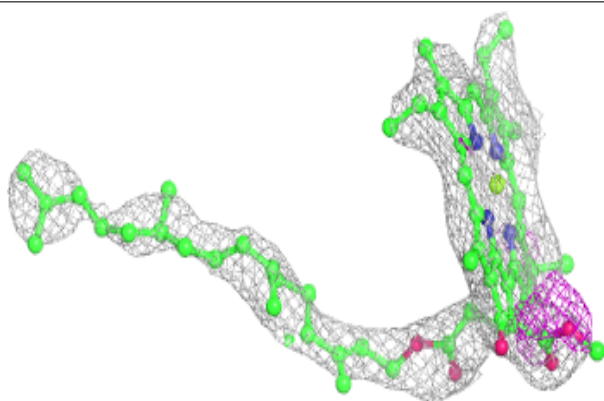


Electron density around XAT 7 616:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

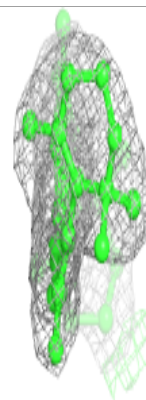
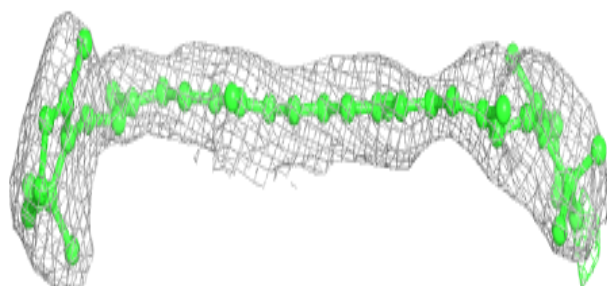
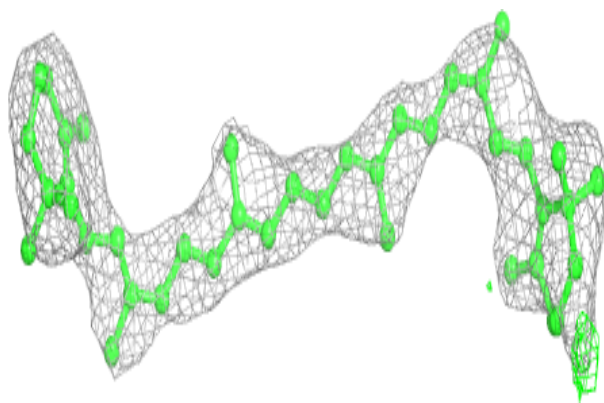
**Electron density around CLA B 829:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

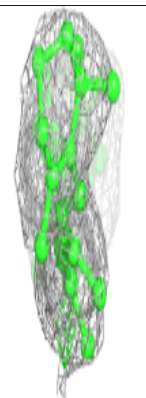
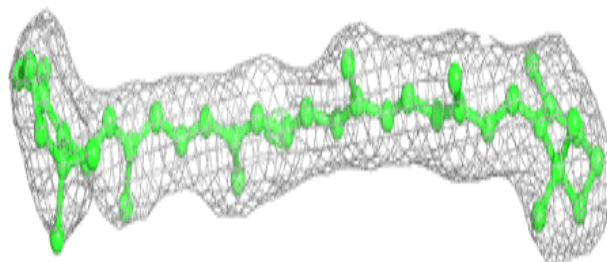
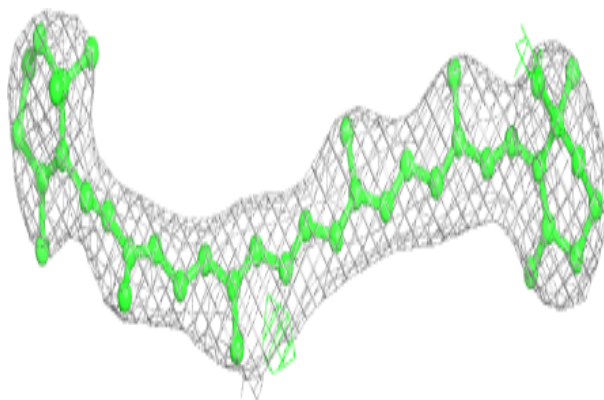


Electron density around BCR B 845:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

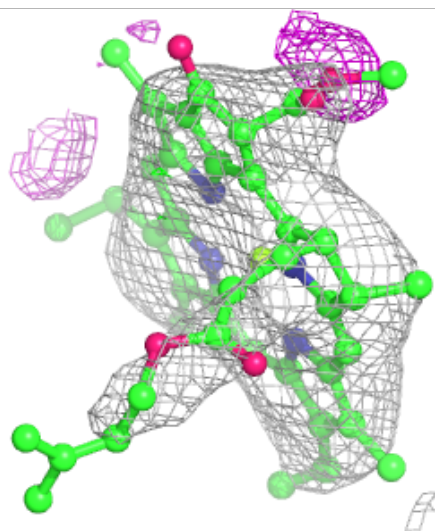
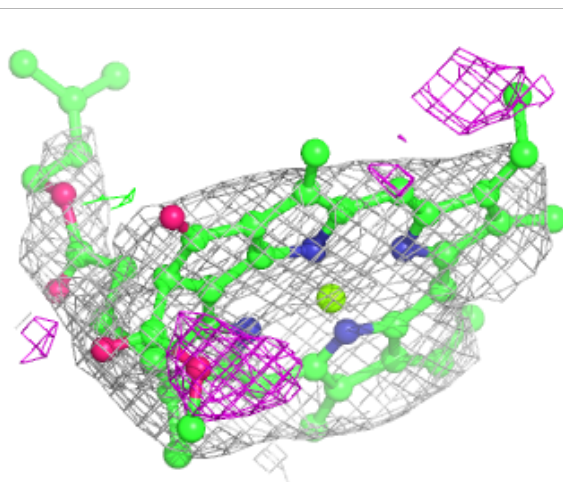
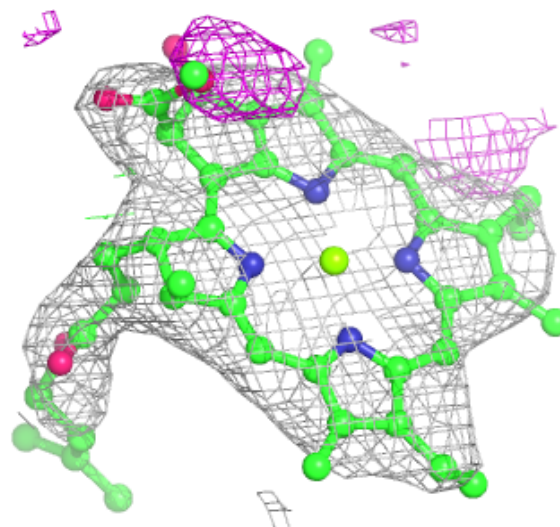
**Electron density around BCR B 847:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



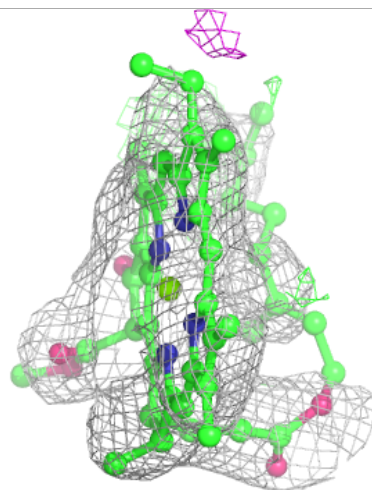
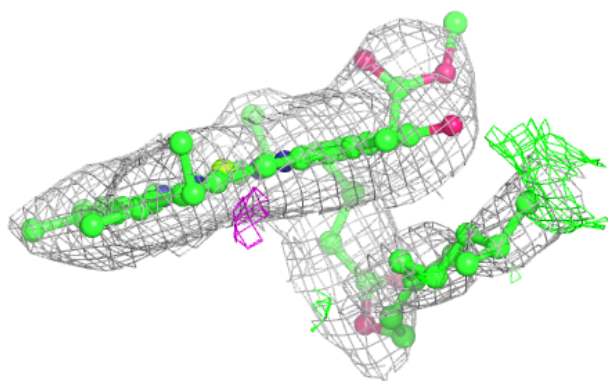
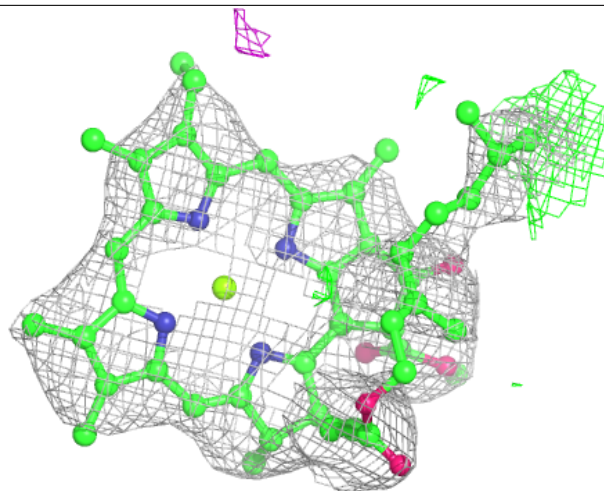
Electron density around CLA 4 604:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



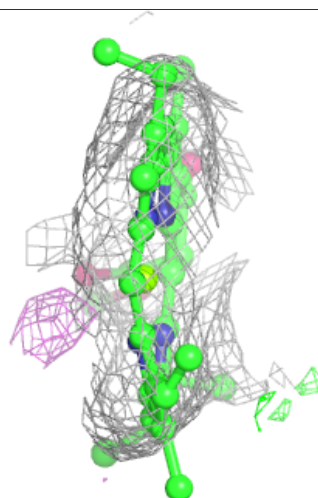
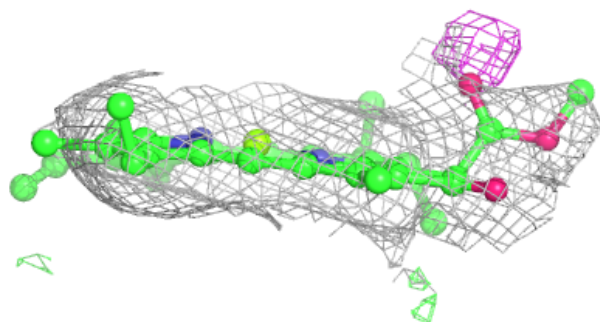
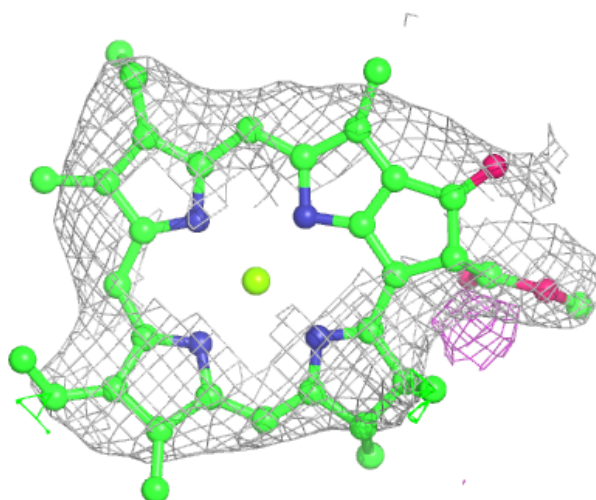
Electron density around CLA B 811:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



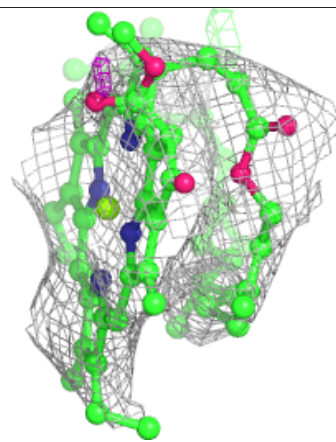
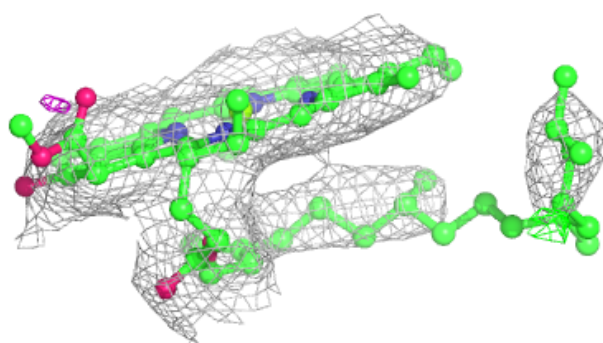
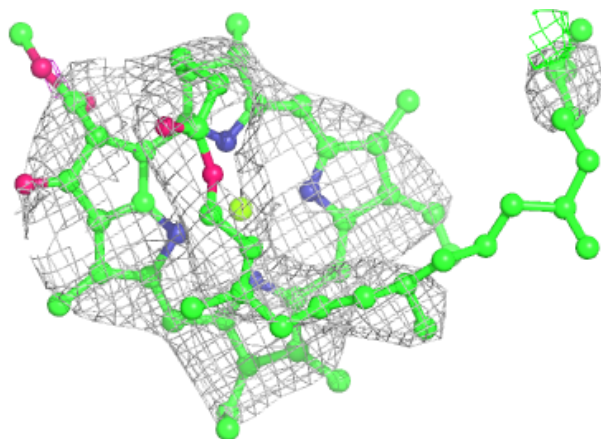
Electron density around CLA 2 610:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

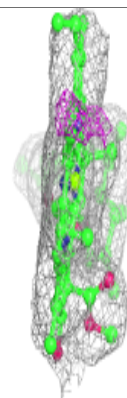
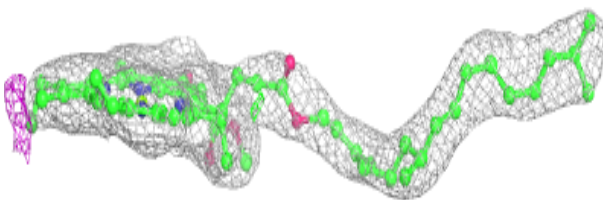
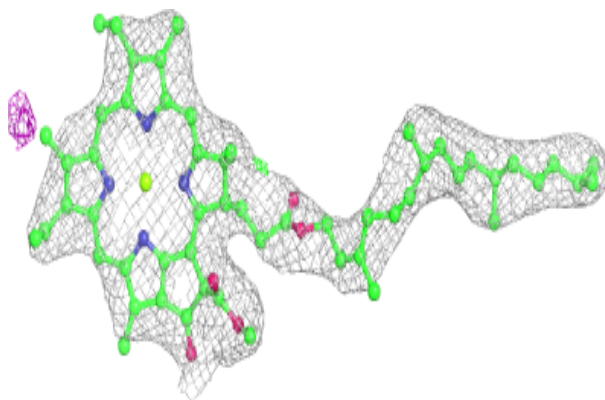


Electron density around CLA 2 612:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

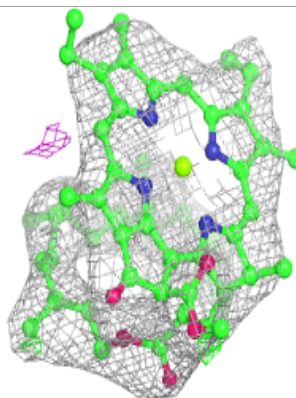
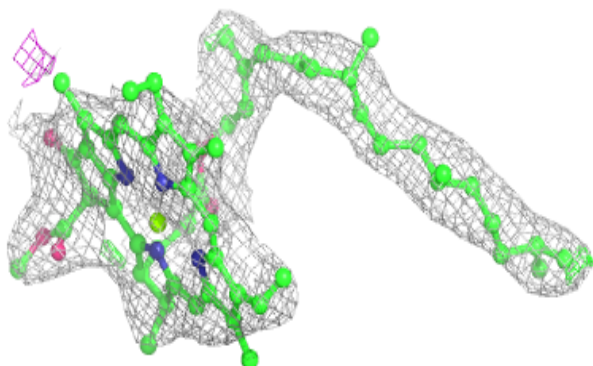
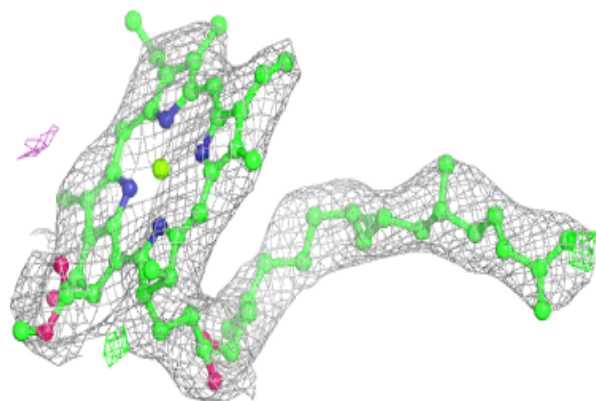
**Electron density around CLA A 834:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

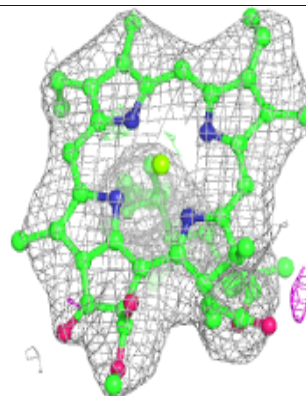
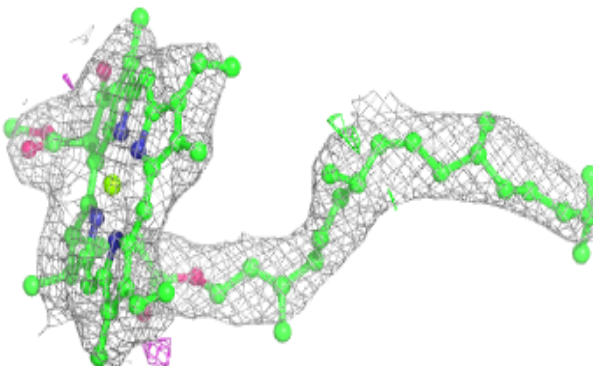
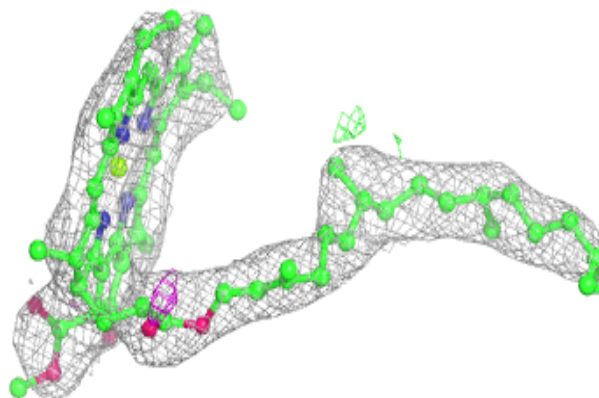


Electron density around CLA b 814:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

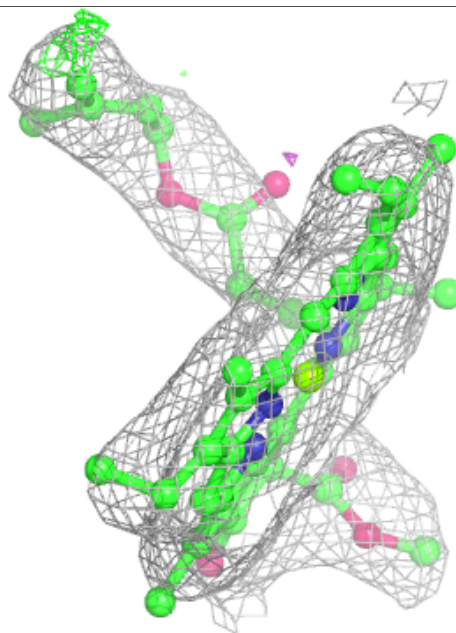
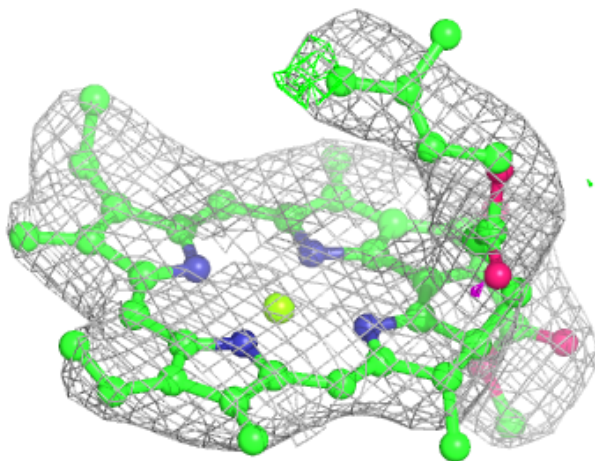
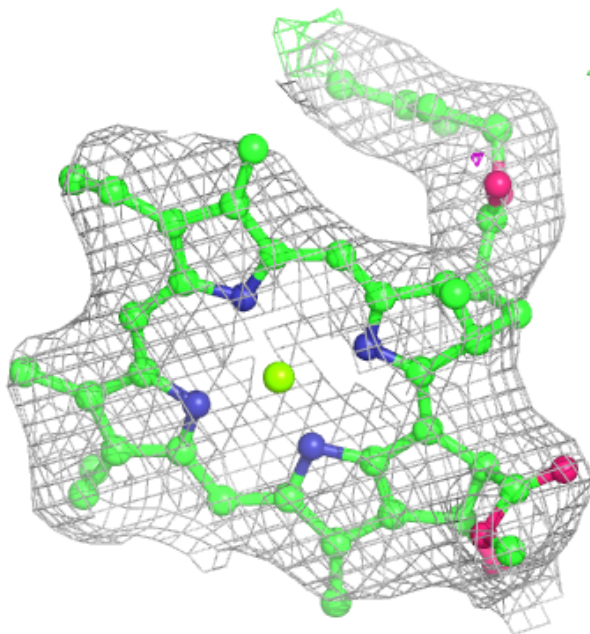
**Electron density around CLA A 812:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



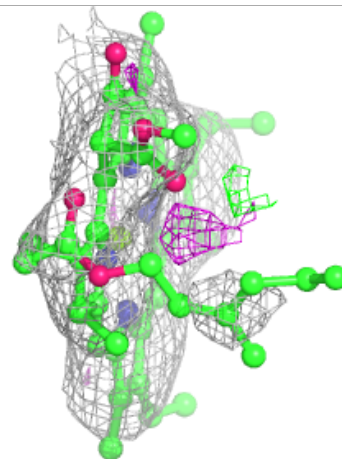
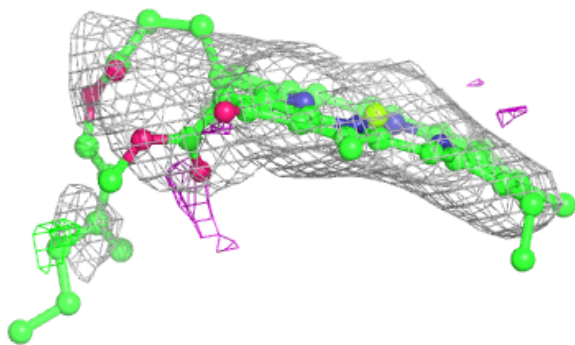
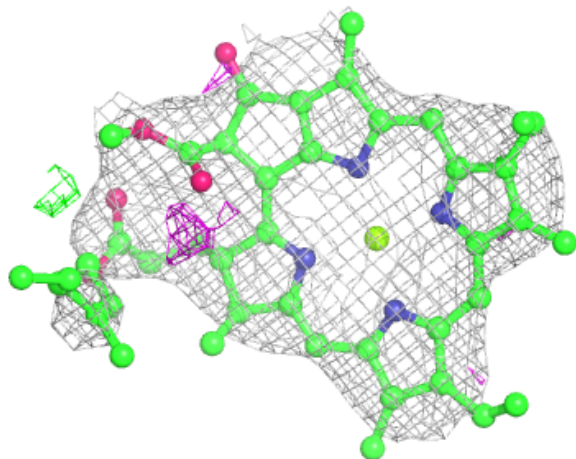
Electron density around CLA b 830:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



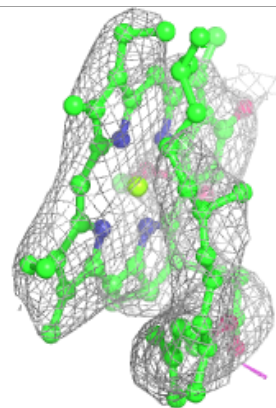
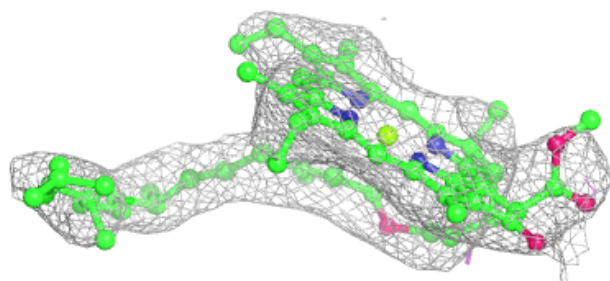
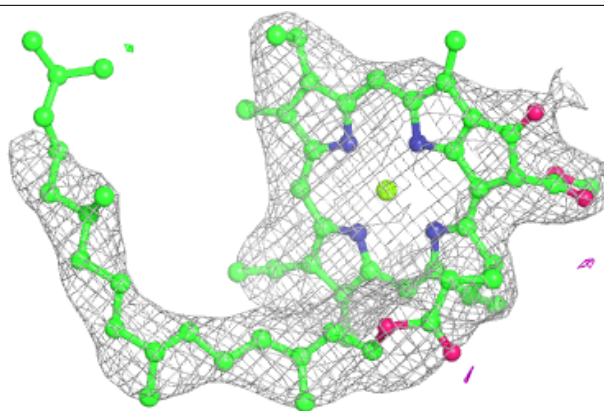
Electron density around CLA 9 611:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



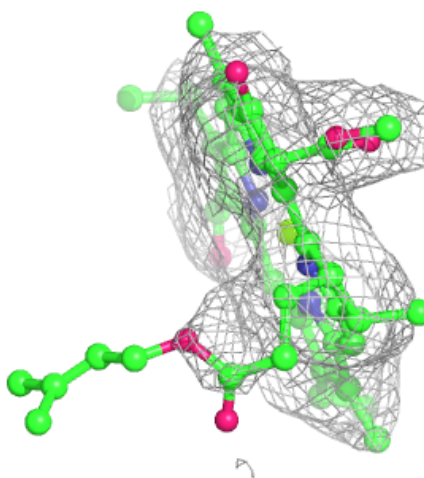
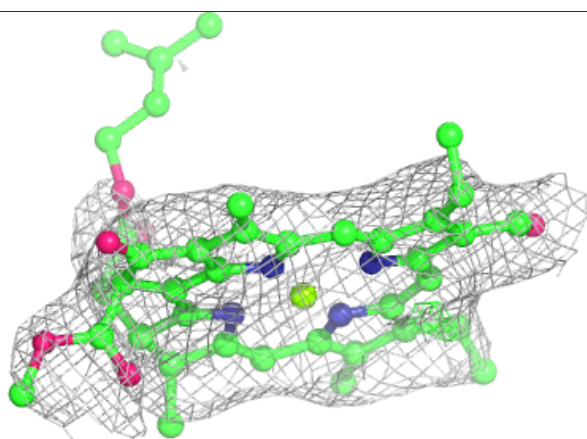
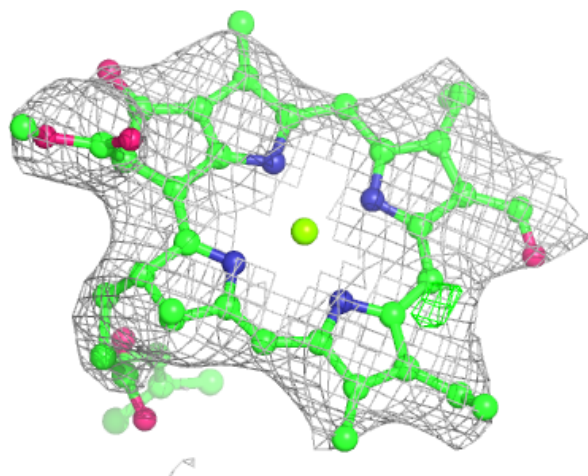
Electron density around CLA 1 303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



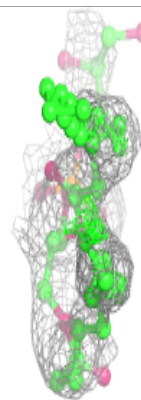
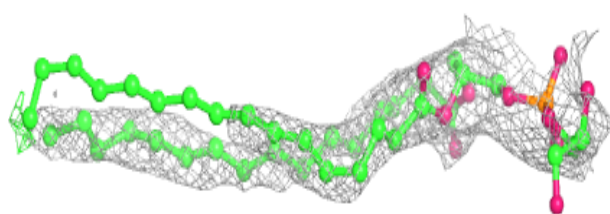
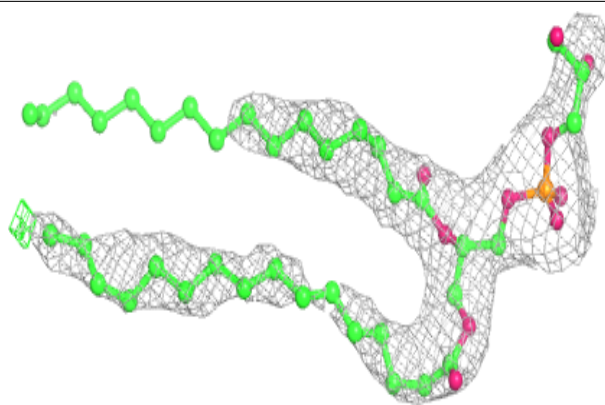
Electron density around CHL 4 606:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



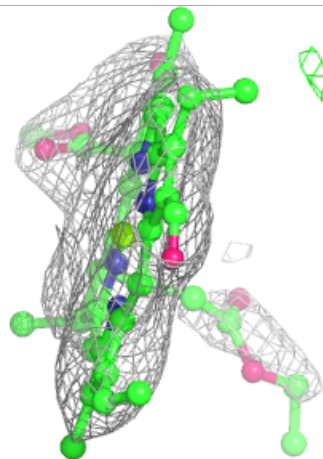
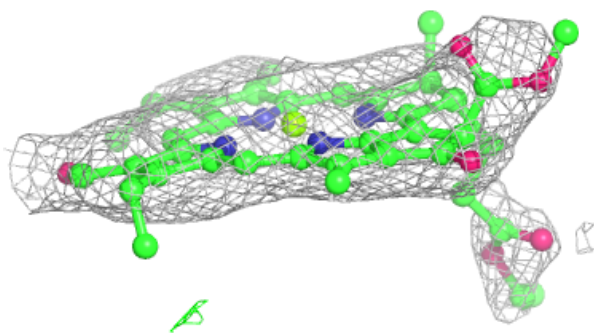
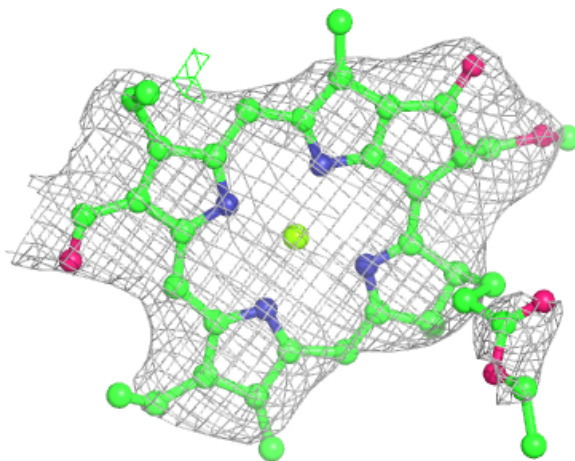
Electron density around LHG 1 319:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



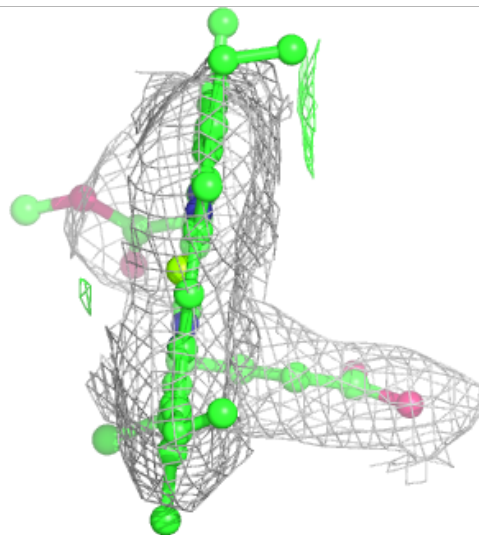
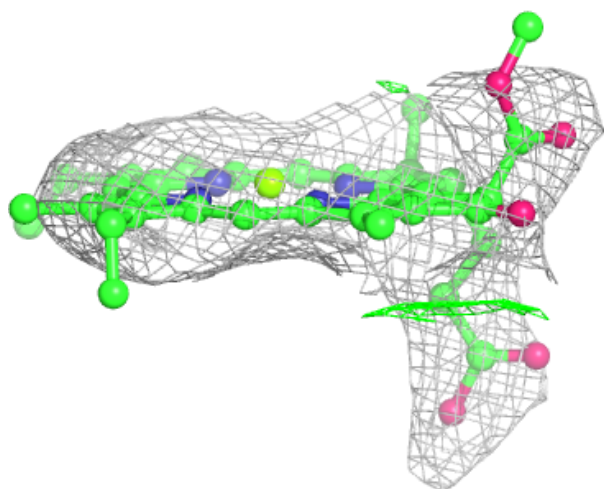
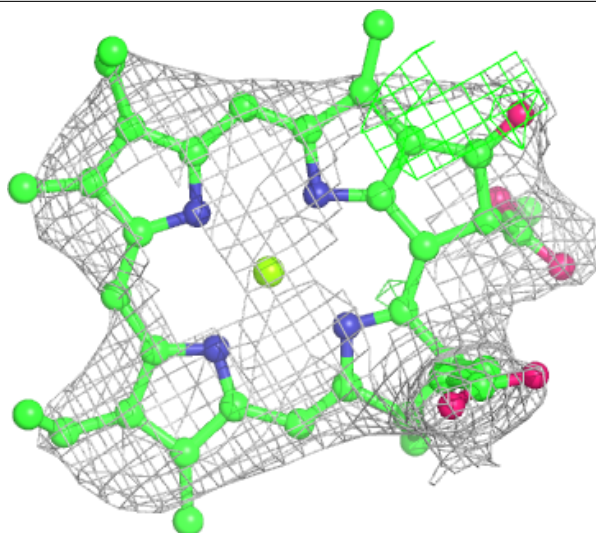
Electron density around CHL 7 606:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



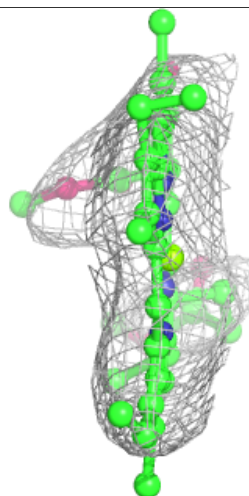
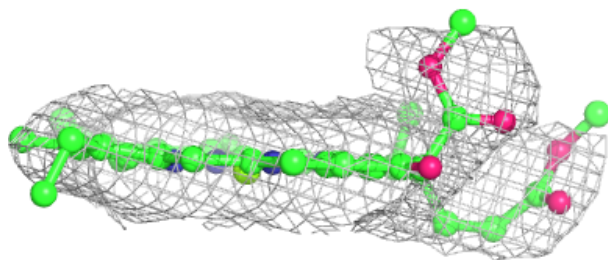
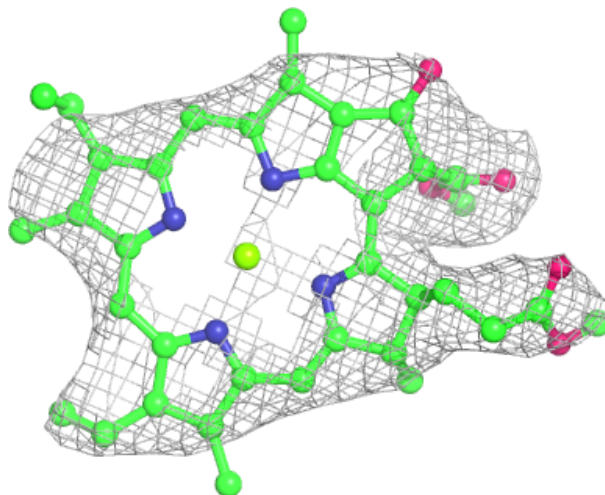
Electron density around CLA 3 304:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



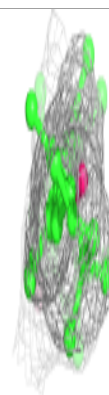
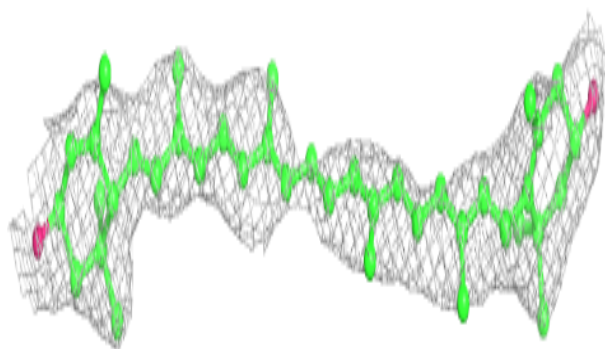
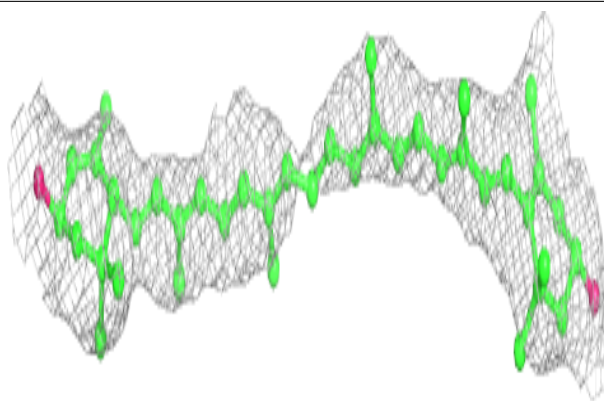
Electron density around CLA g 103:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



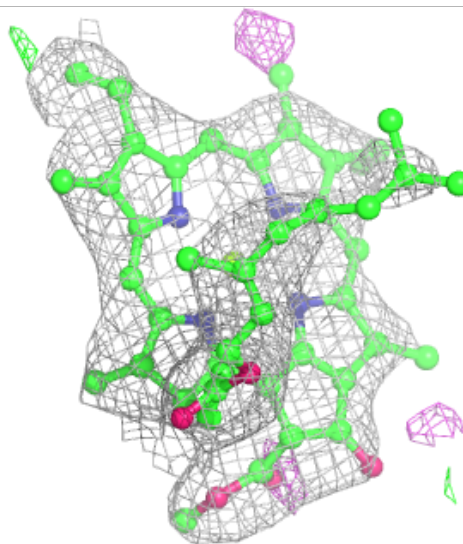
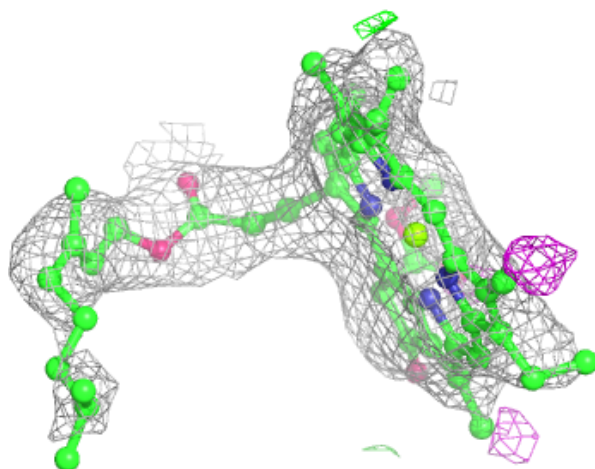
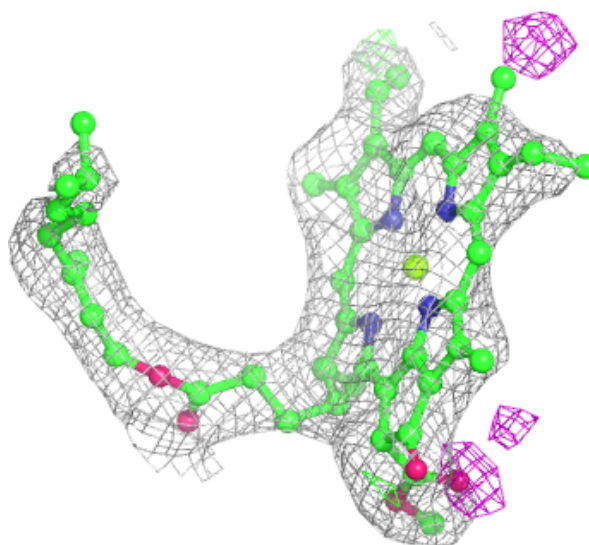
Electron density around LUT 2 615:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



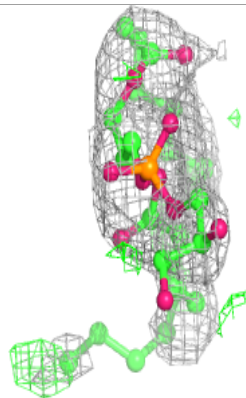
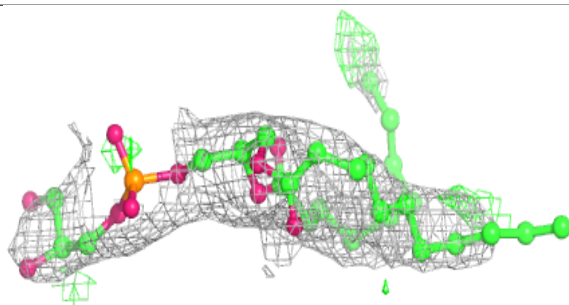
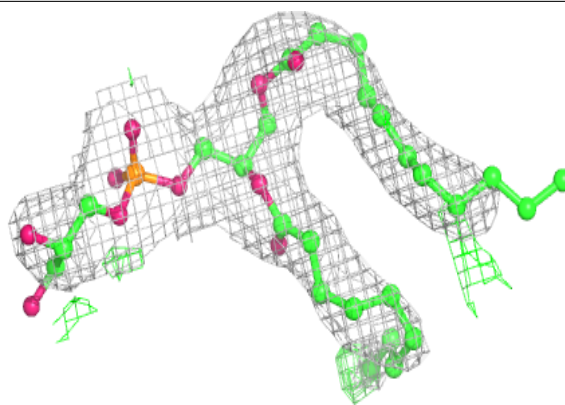
Electron density around CLA A 805:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



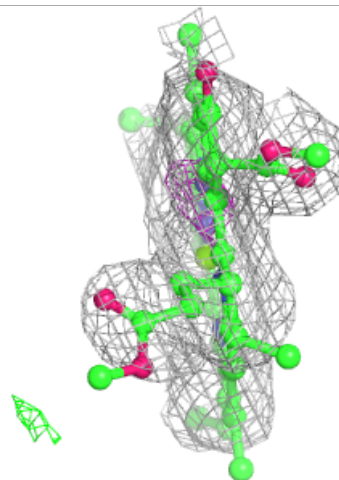
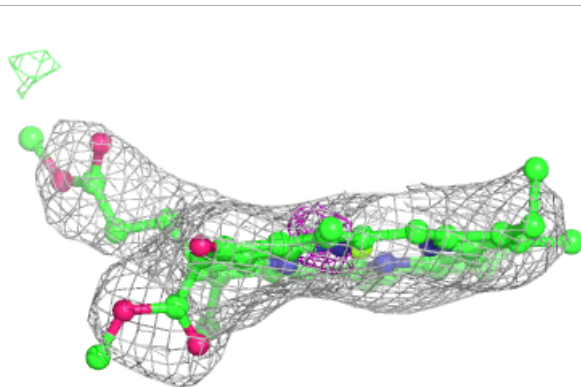
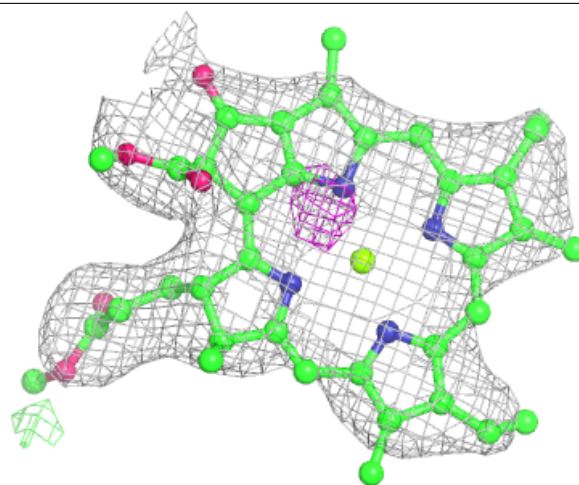
Electron density around LHG 7 618:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



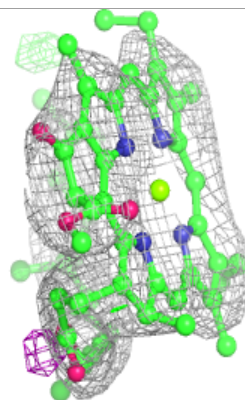
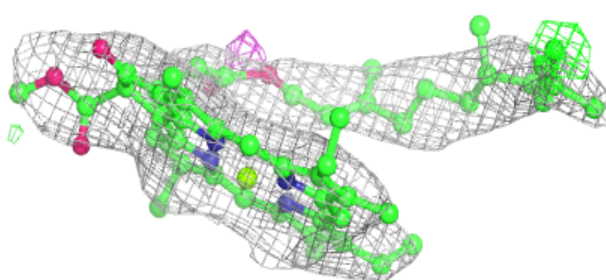
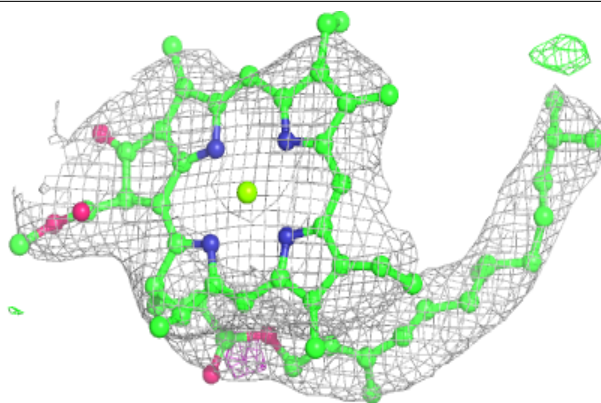
Electron density around CLA k 1402:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

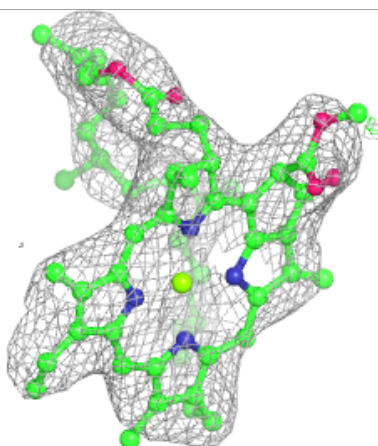
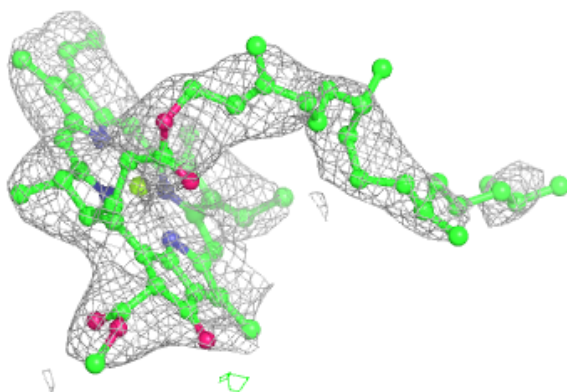
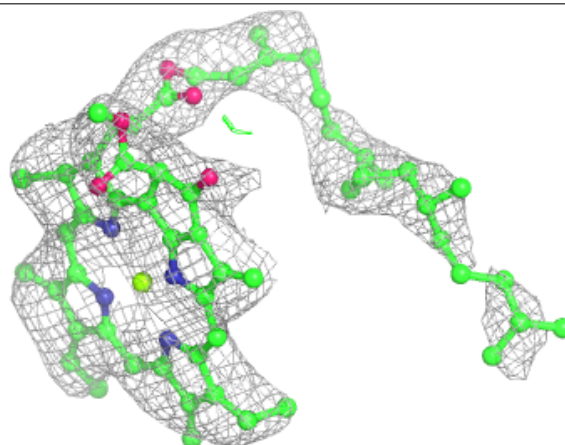


Electron density around CLA 1 310:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

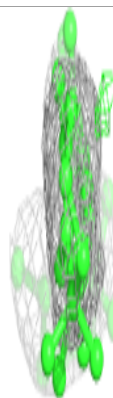
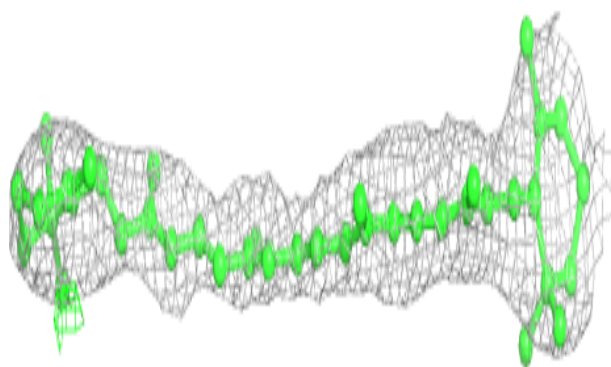
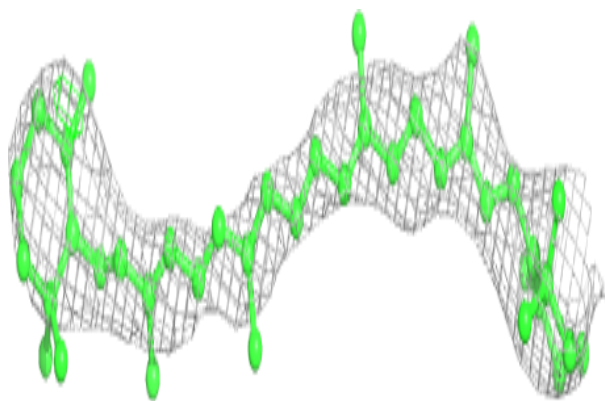
**Electron density around CLA B 834:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



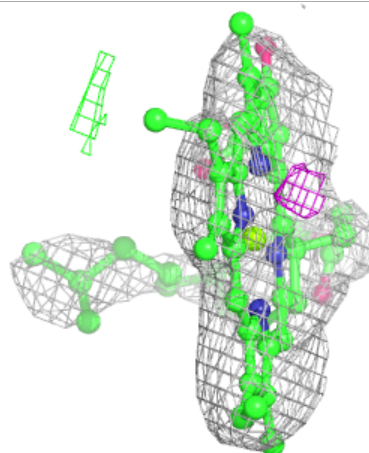
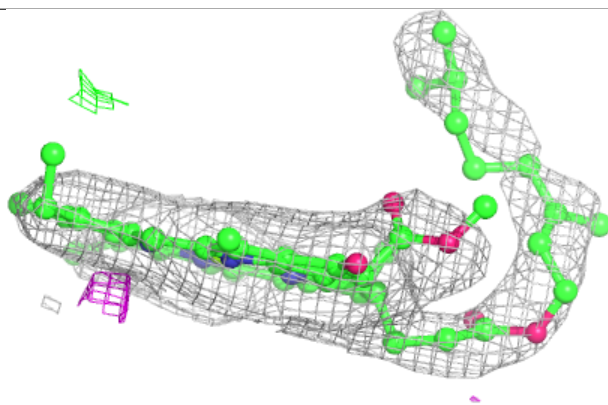
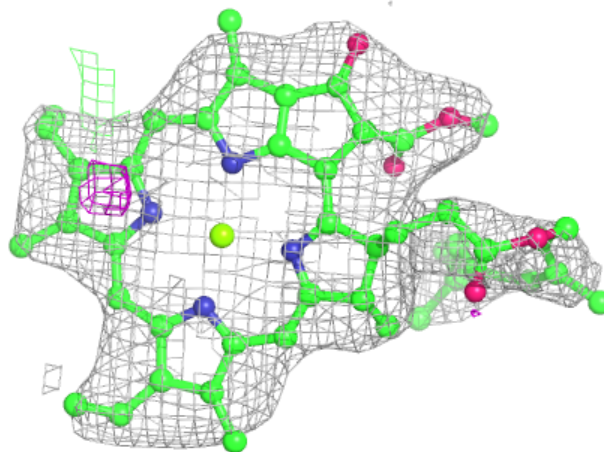
Electron density around BCR 9 618:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



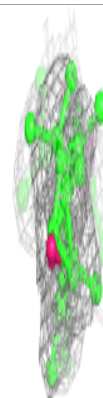
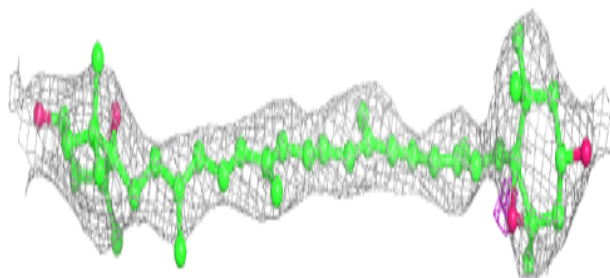
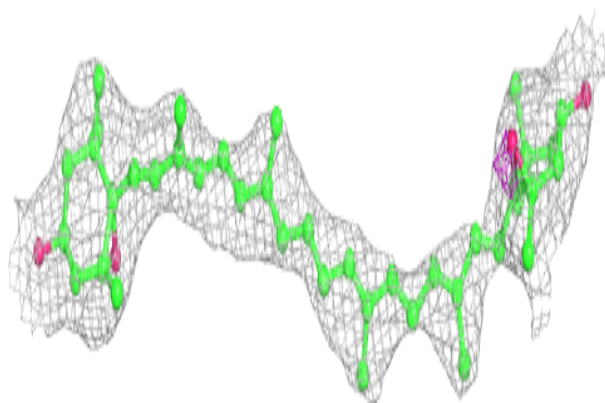
Electron density around CLA F 304:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



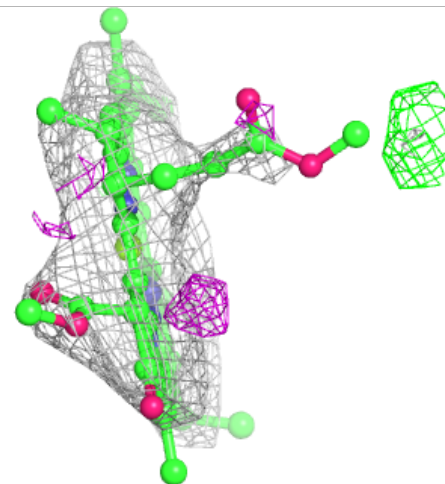
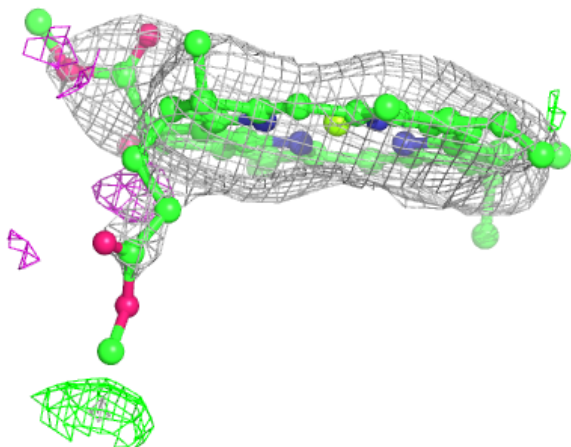
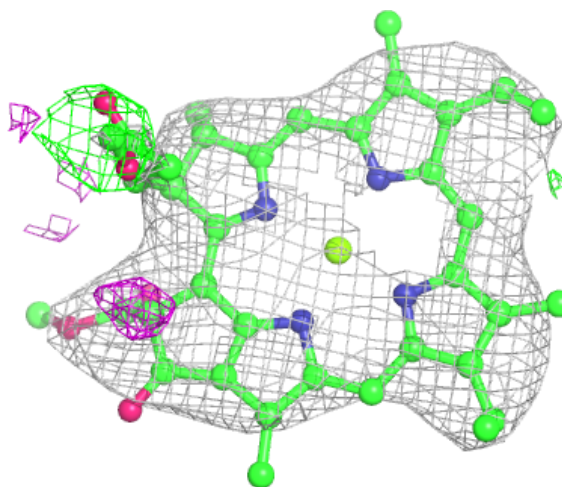
Electron density around XAT 8 315:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



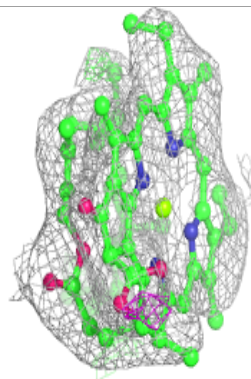
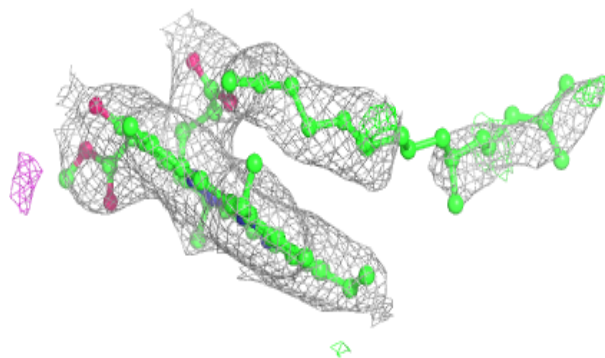
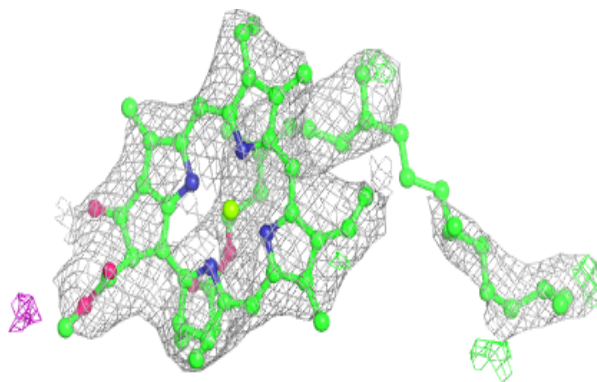
Electron density around CLA 6 309:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

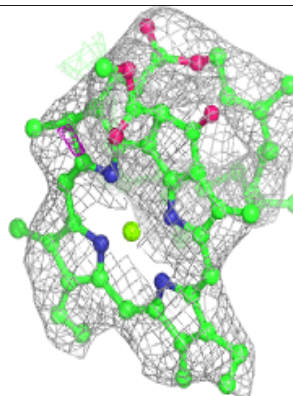
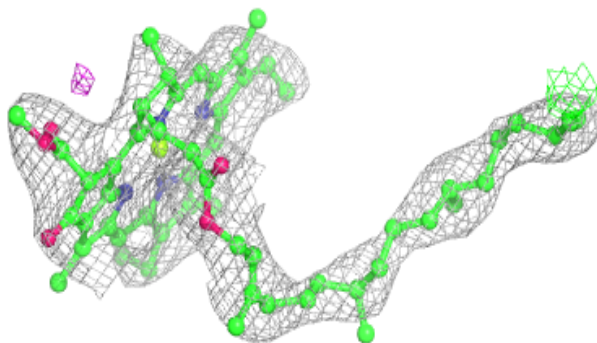
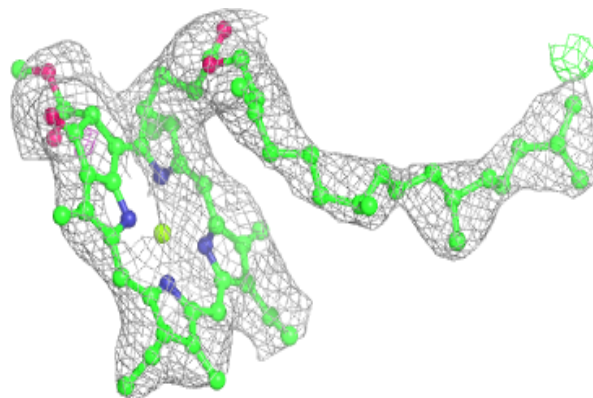


Electron density around CLA b 807:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

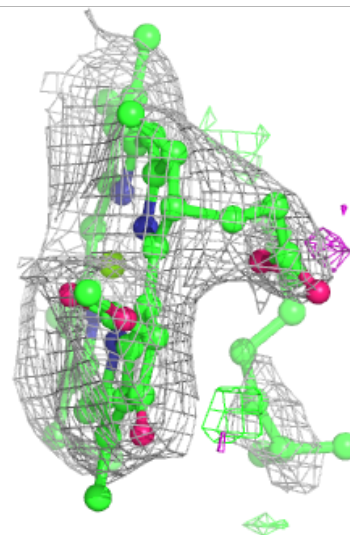
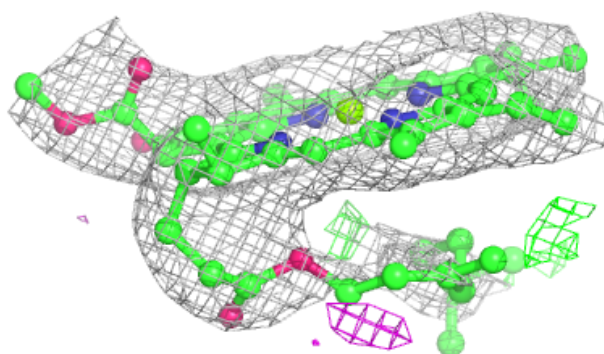
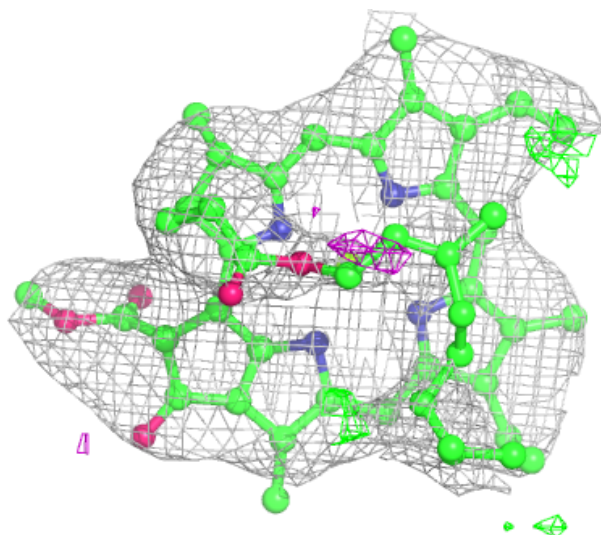
**Electron density around CLA B 814:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



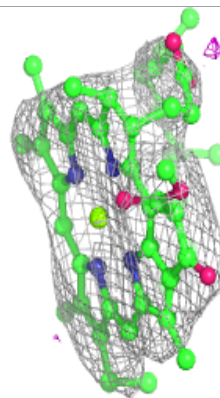
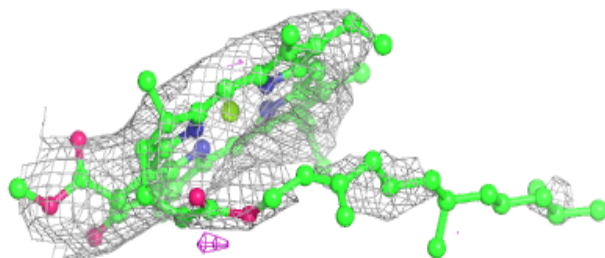
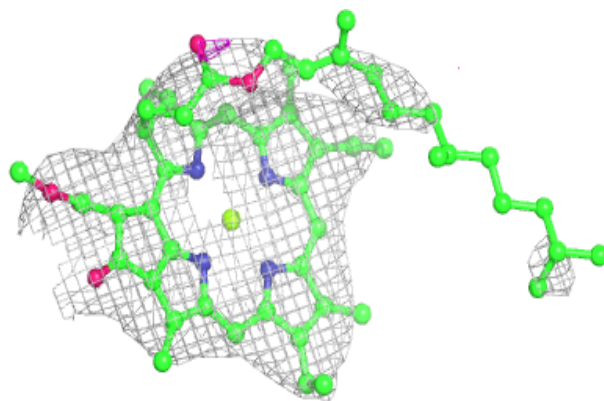
Electron density around CLA b 812:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



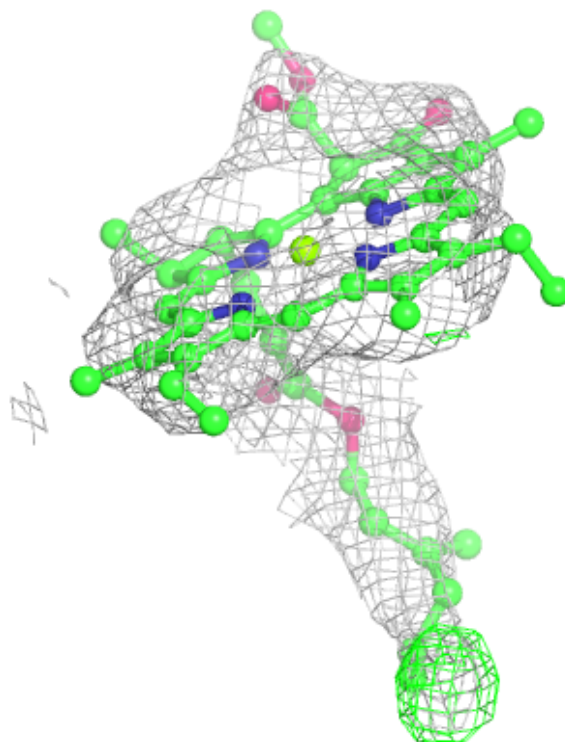
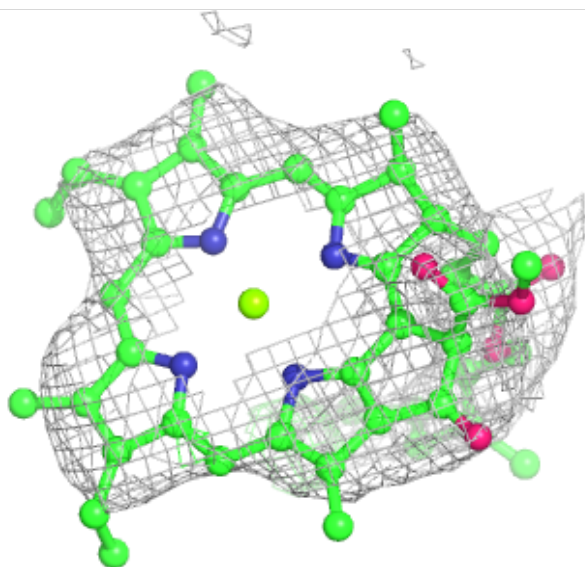
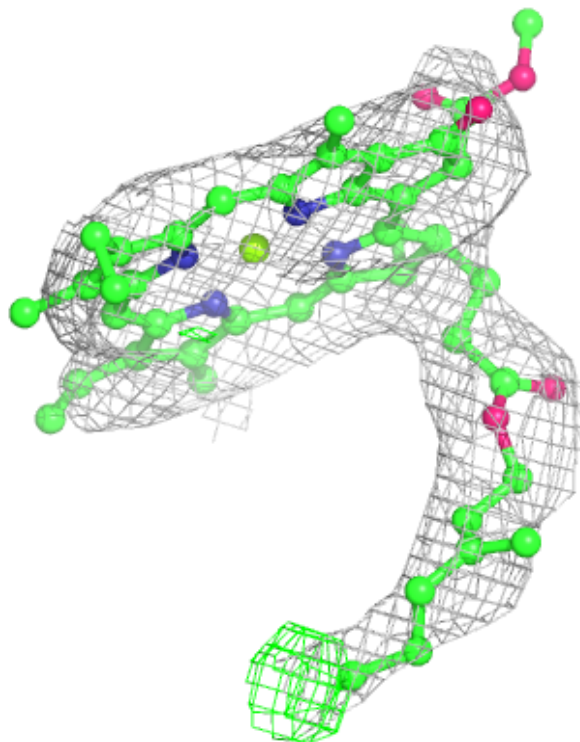
Electron density around CLA 9 609:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



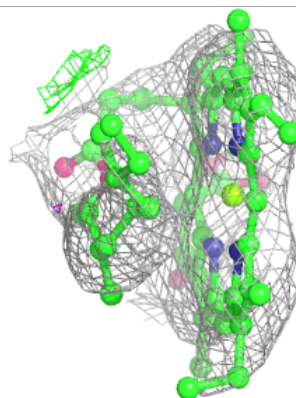
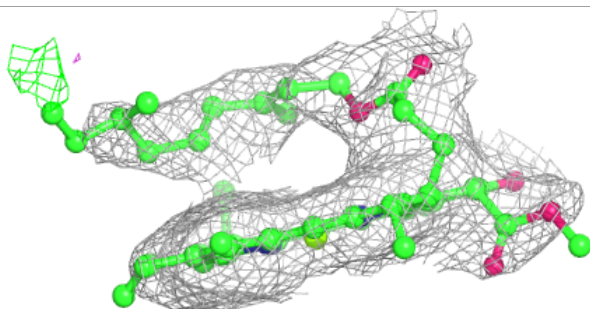
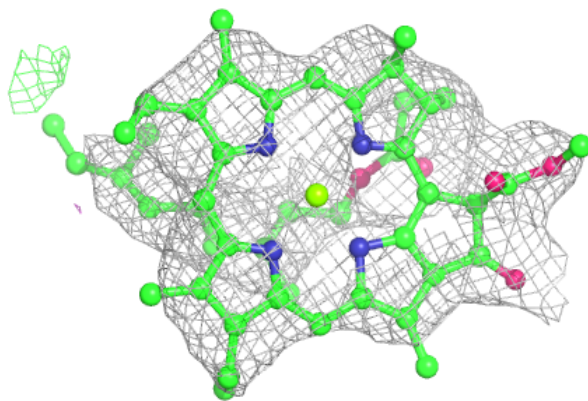
Electron density around CLA 1 305:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



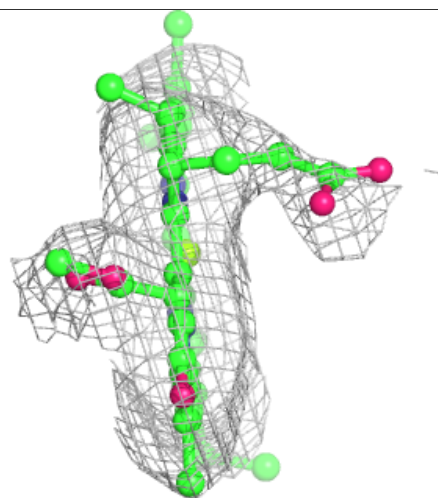
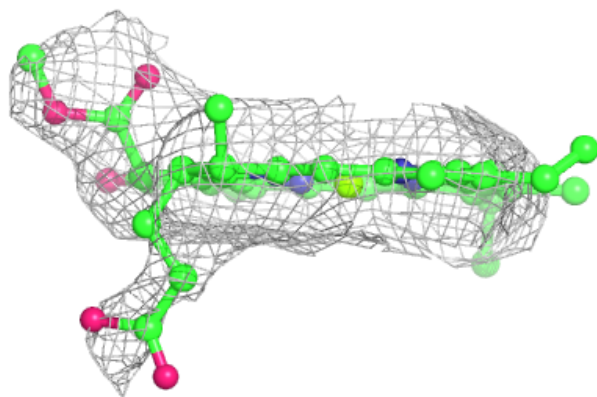
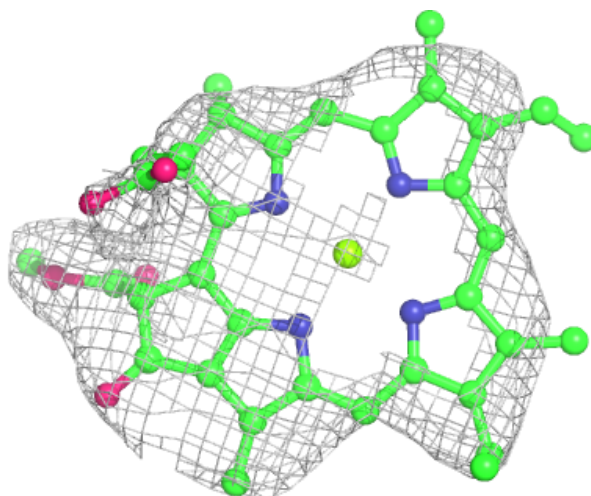
Electron density around CLA 9 612:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



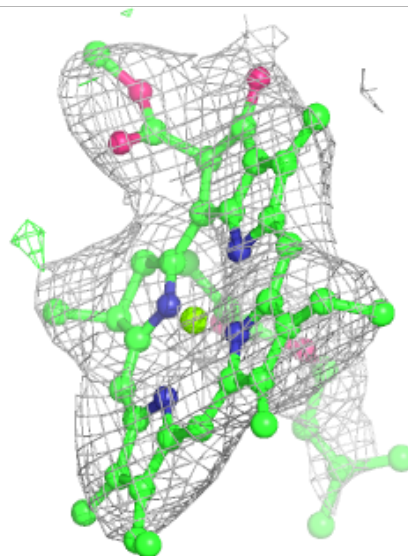
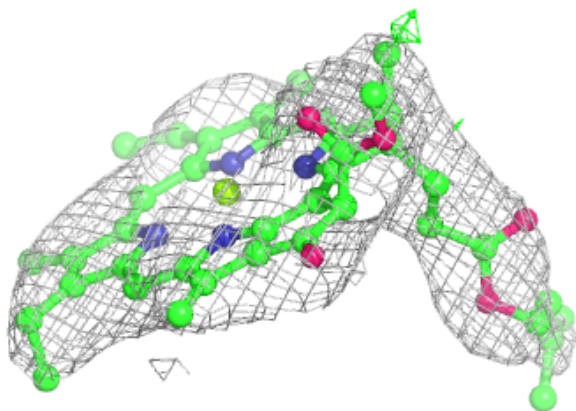
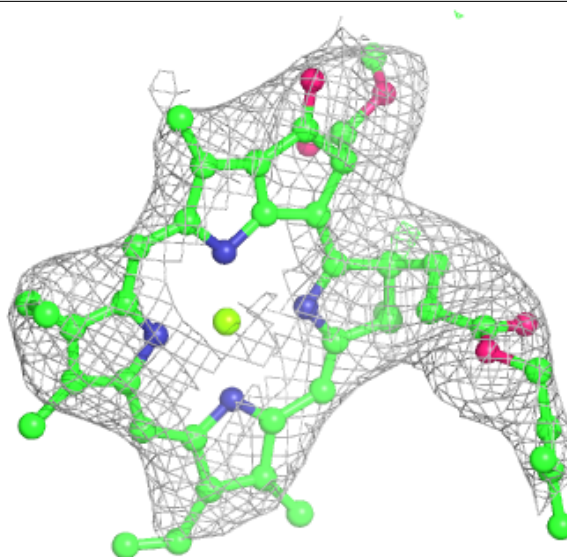
Electron density around CLA 9 613:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



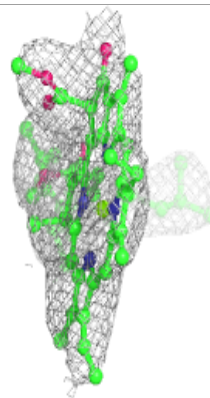
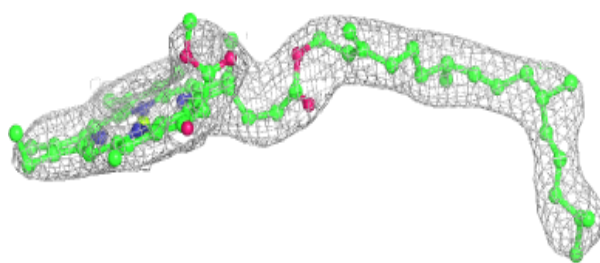
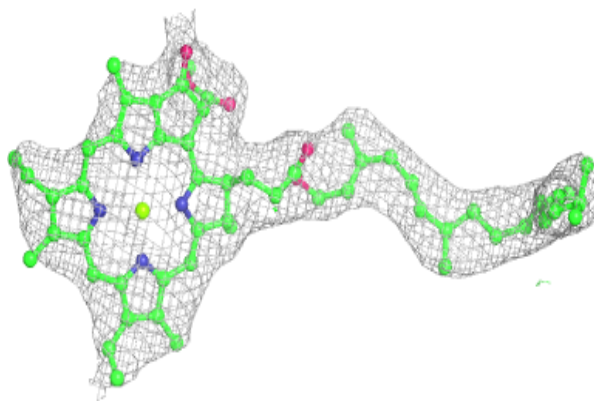
Electron density around CLA b 820:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



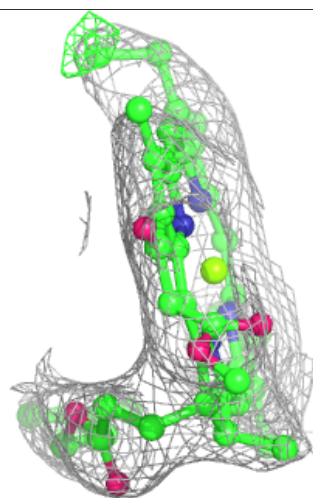
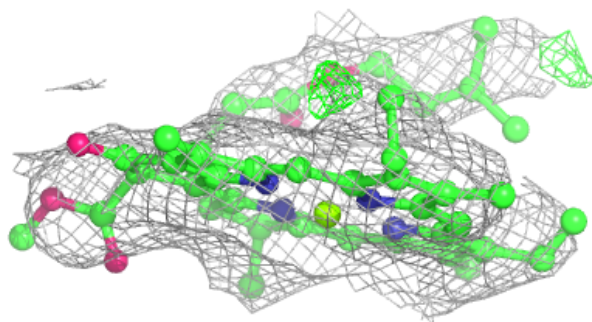
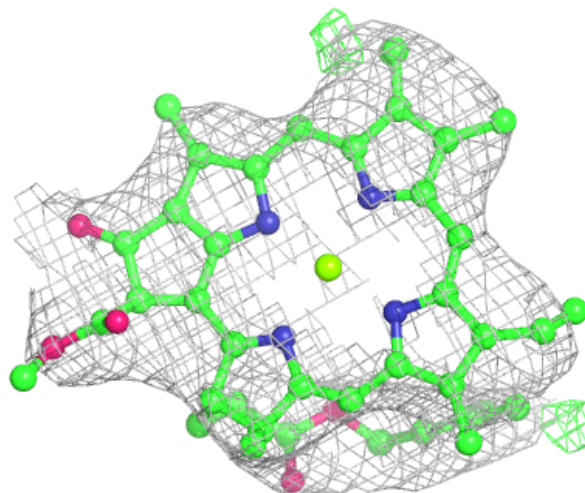
Electron density around CLA A 806:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



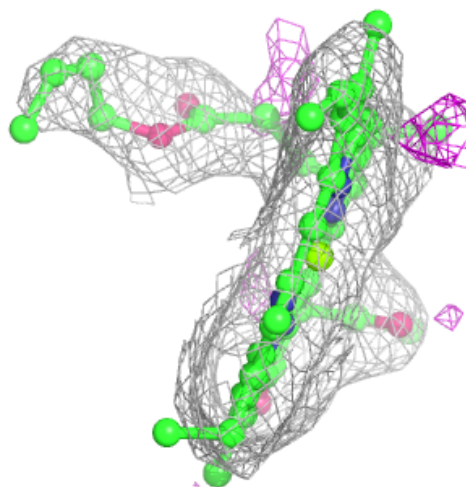
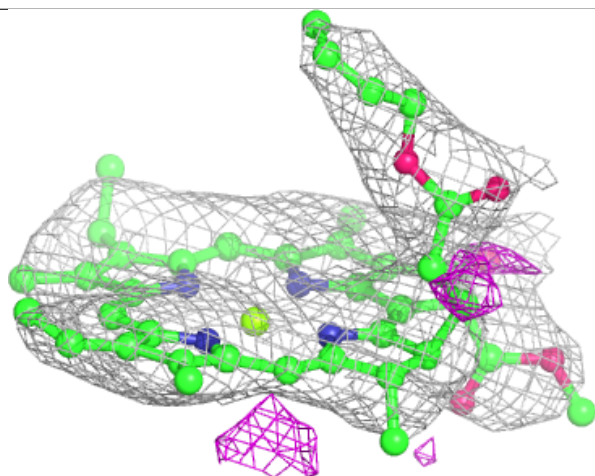
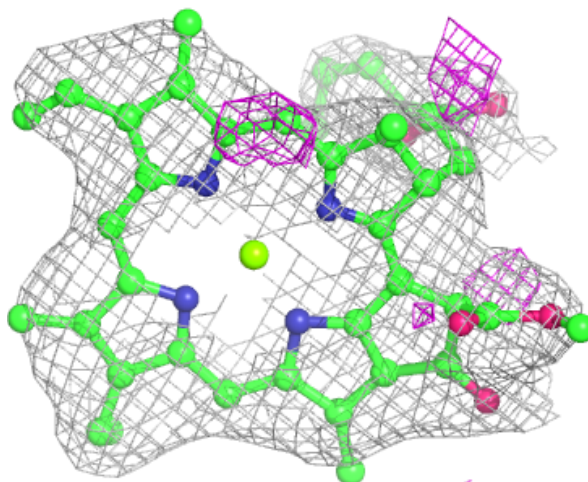
Electron density around CLA 3 309:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



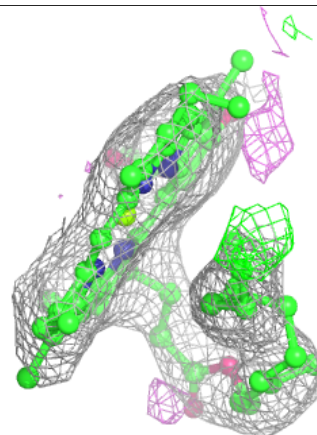
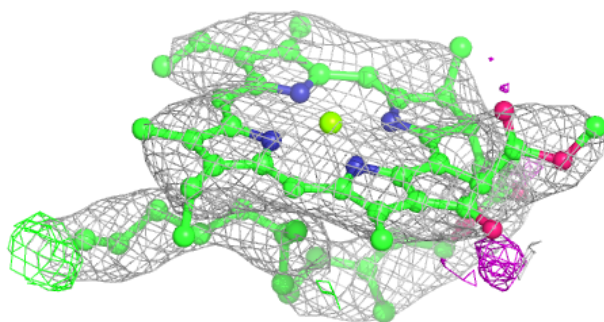
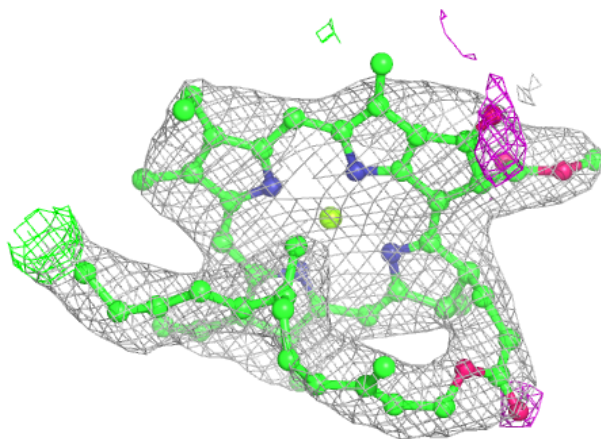
Electron density around CLA b 831:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



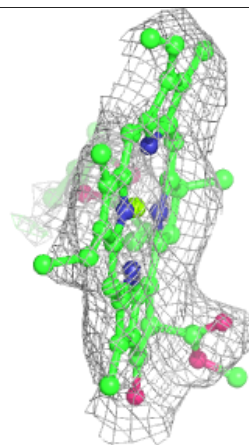
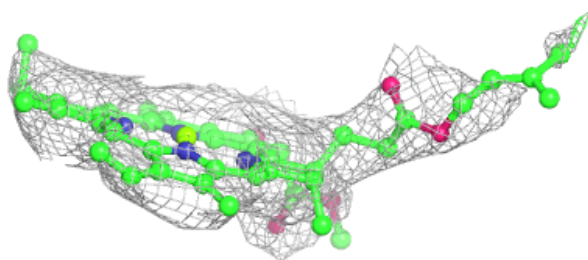
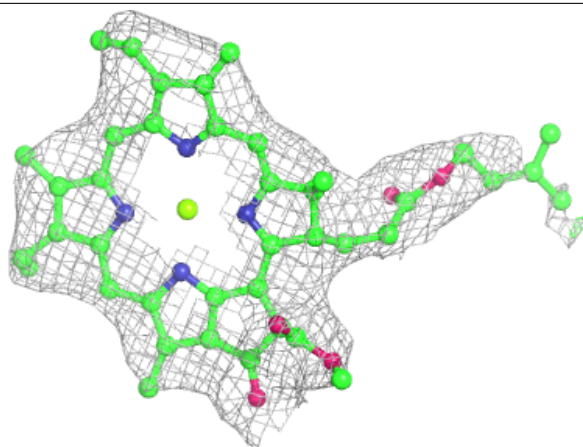
Electron density around CLA B 817:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



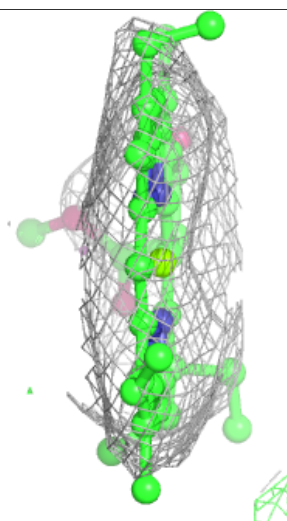
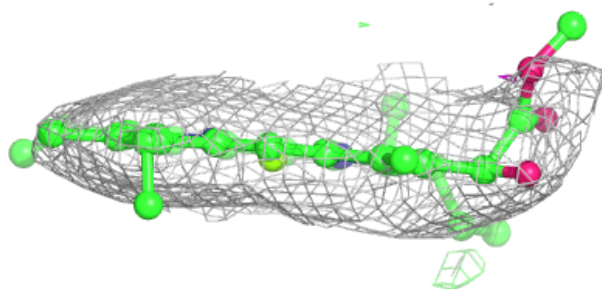
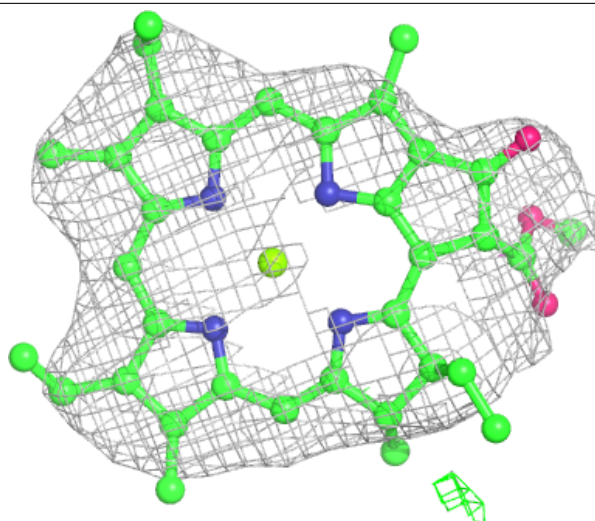
Electron density around CLA G 103:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



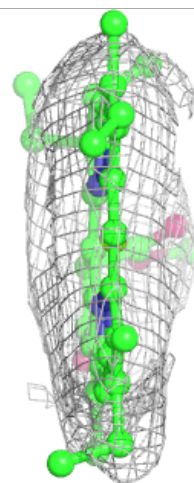
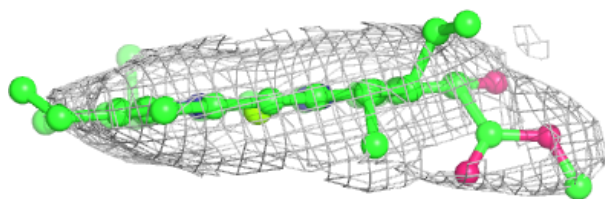
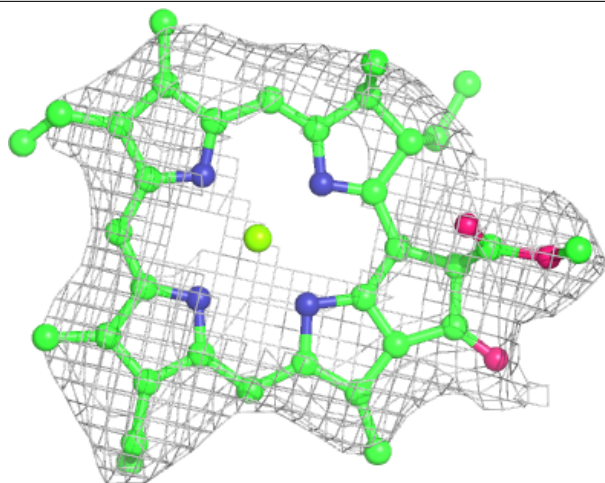
Electron density around CLA J 3002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



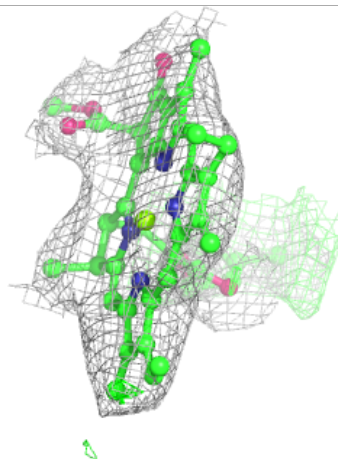
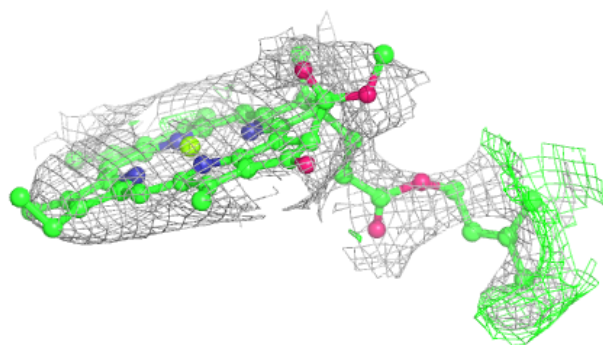
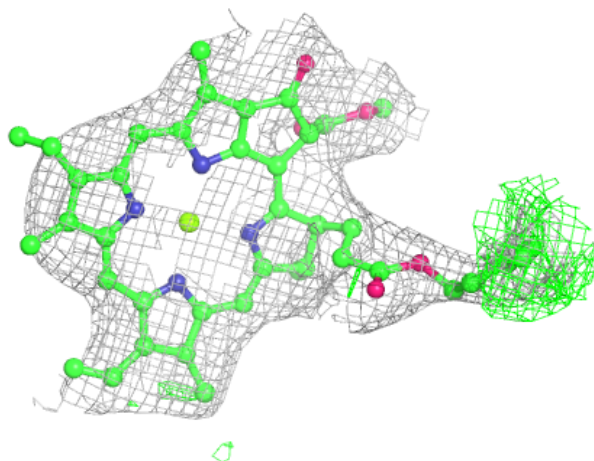
Electron density around CLA j 3002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



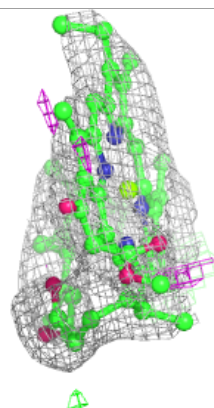
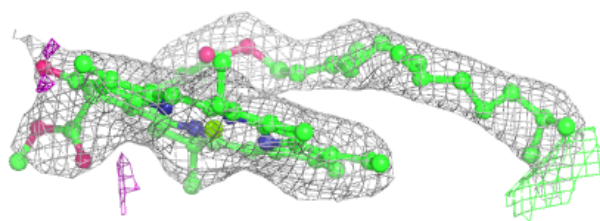
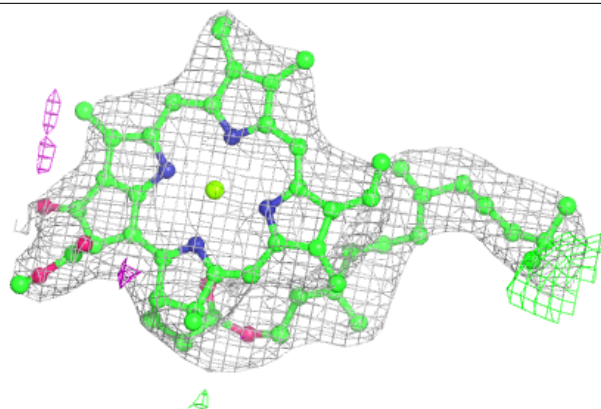
Electron density around CLA 2 608:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

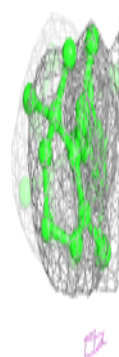
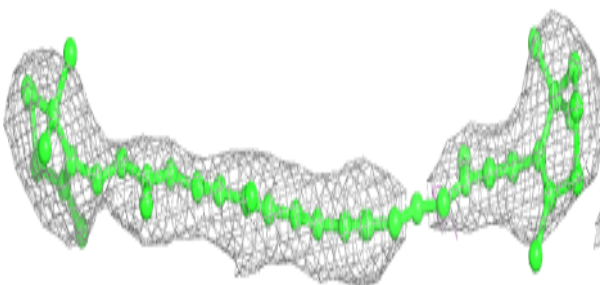
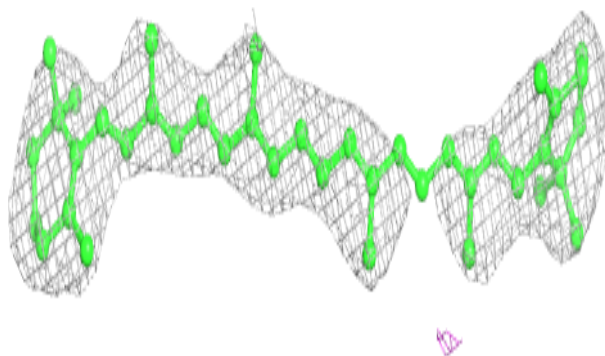


Electron density around CLA B 818:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

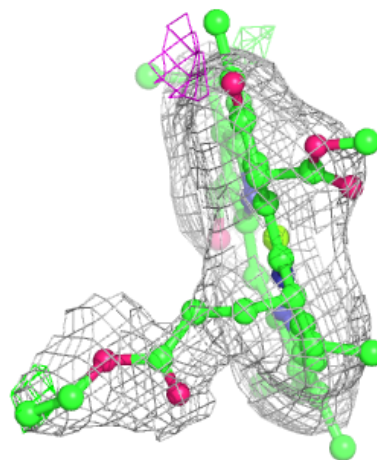
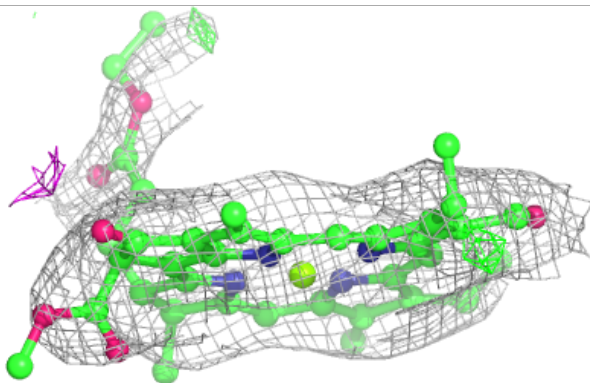
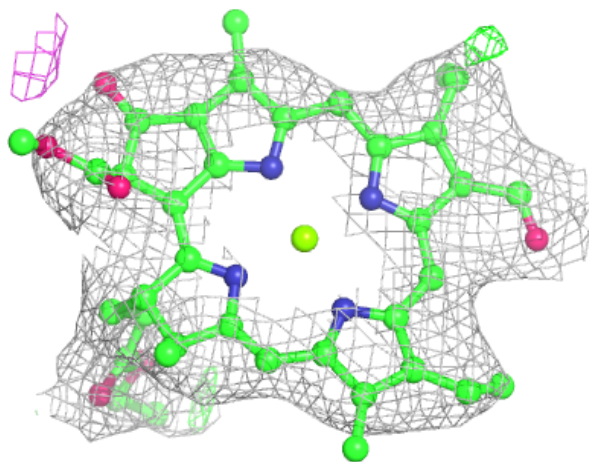
**Electron density around BCR B 843:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



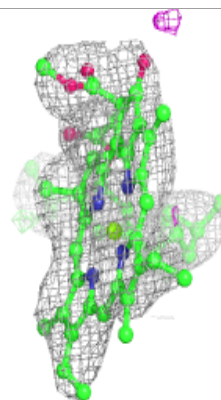
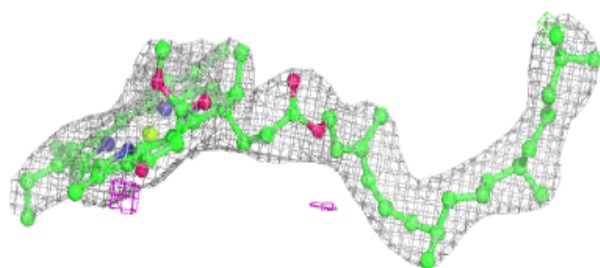
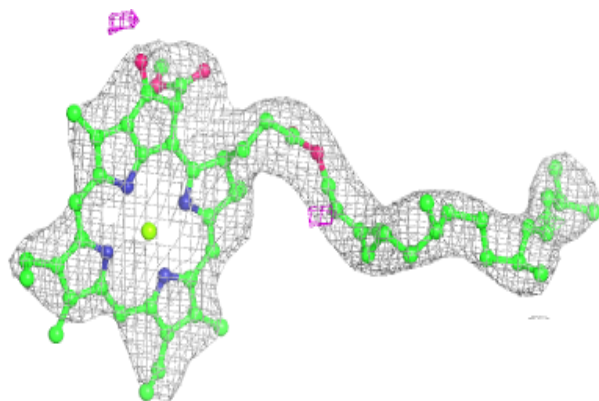
Electron density around CHL 1 307:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

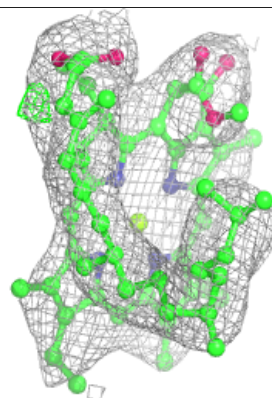
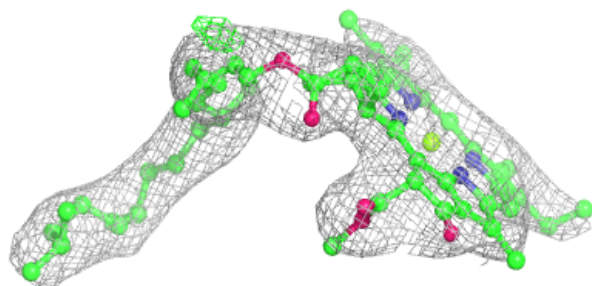
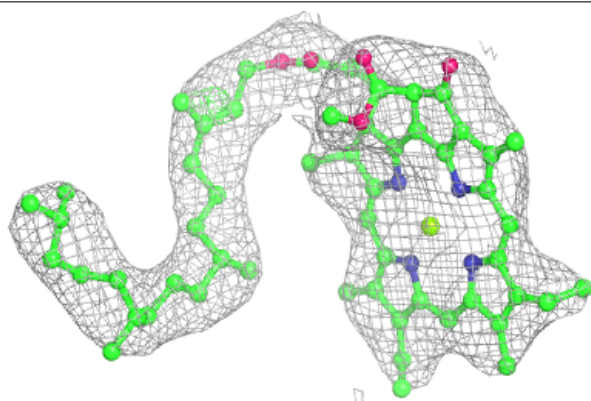


Electron density around CLA B 813:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

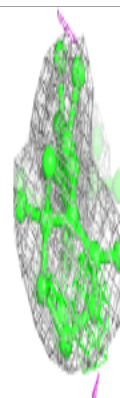
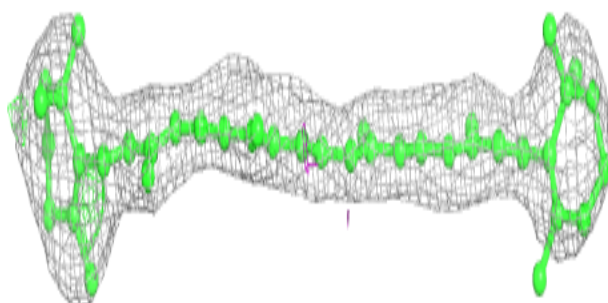
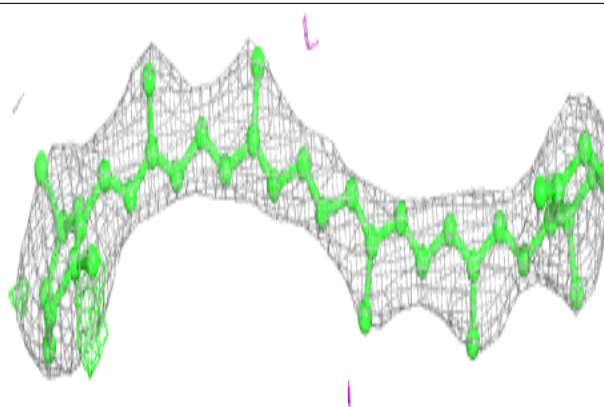
**Electron density around CLA B 824:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

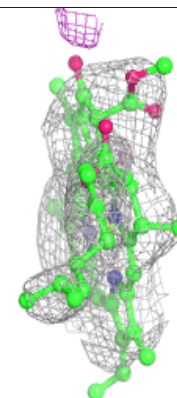
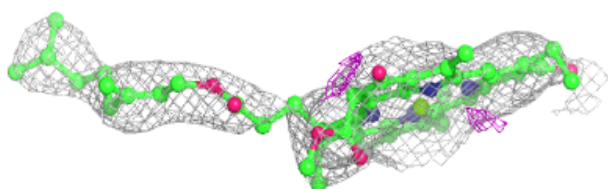
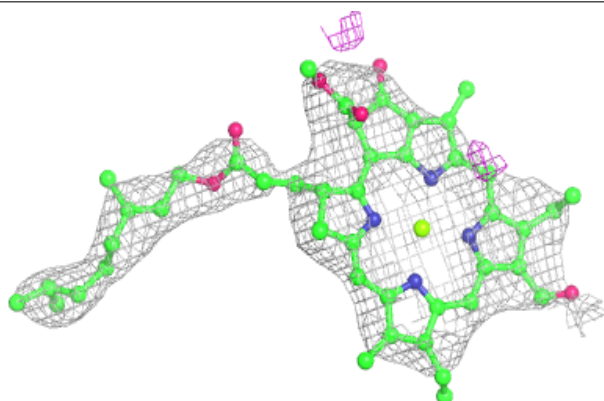


Electron density around BCR B 846:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

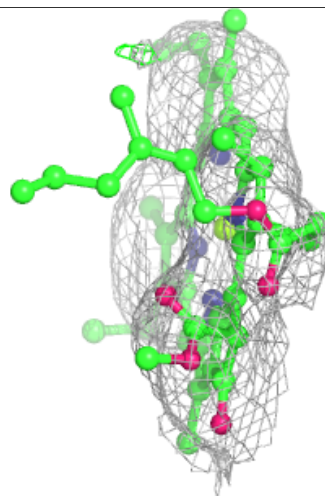
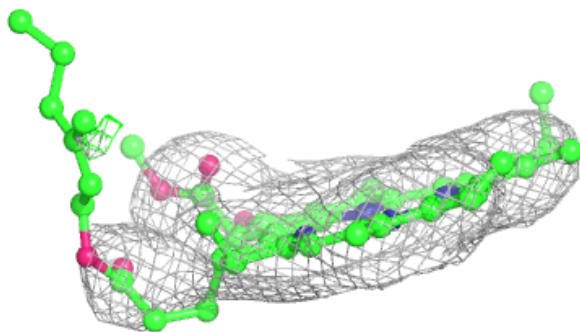
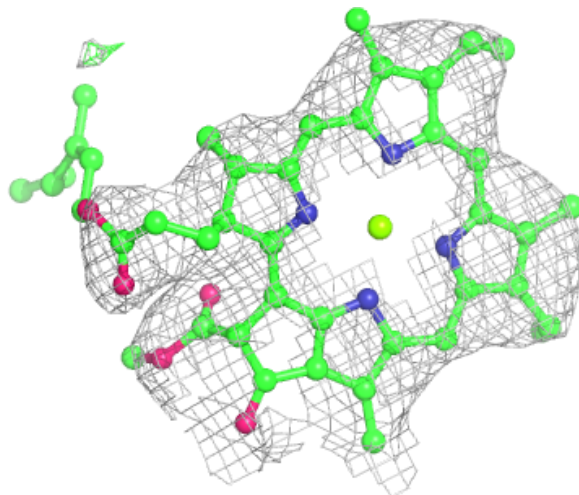
**Electron density around CHL 4 605:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



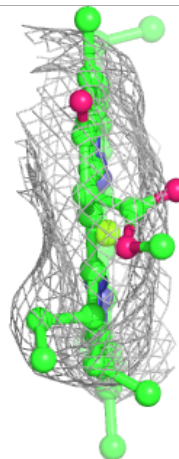
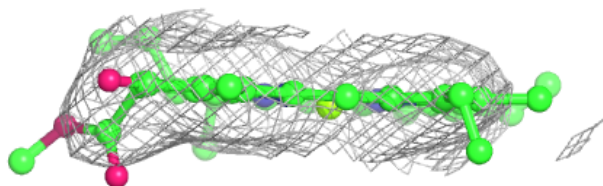
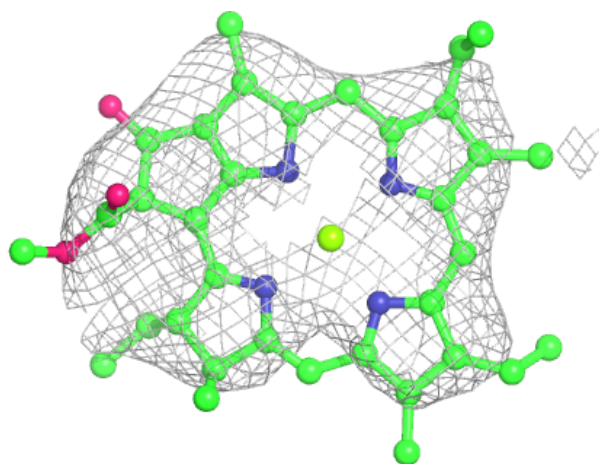
Electron density around CLA 4 611:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



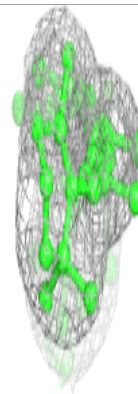
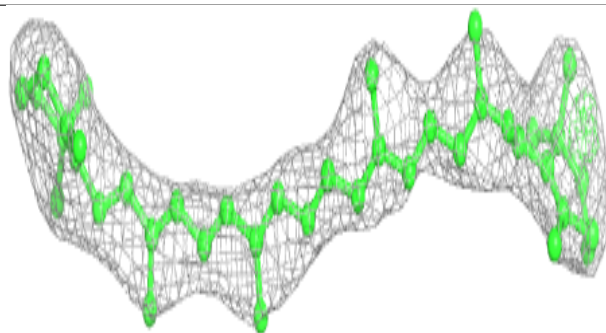
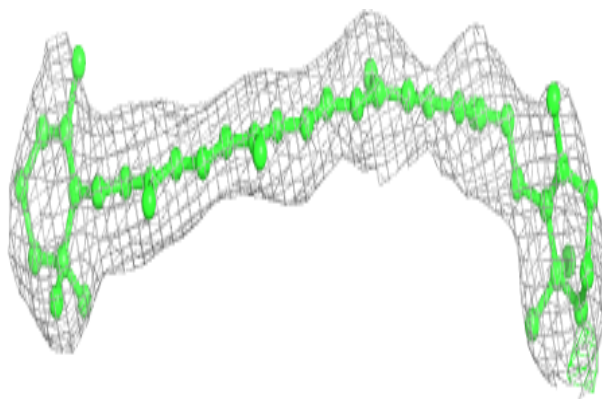
Electron density around CLA 6 307:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

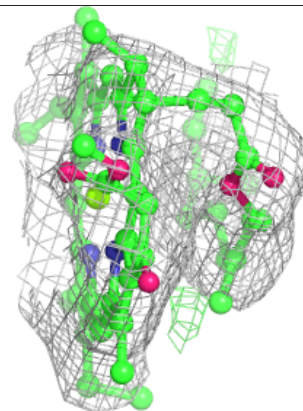
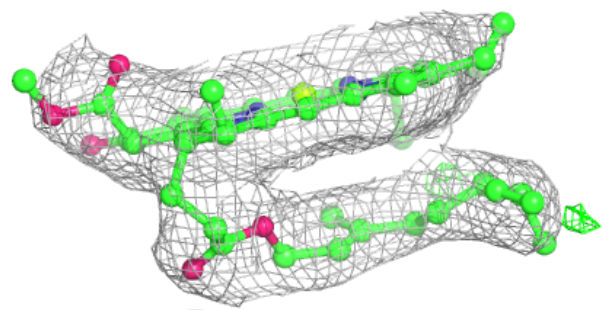
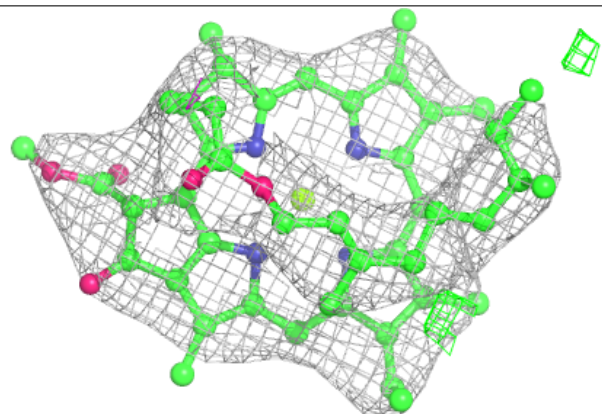


Electron density around BCR I 101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

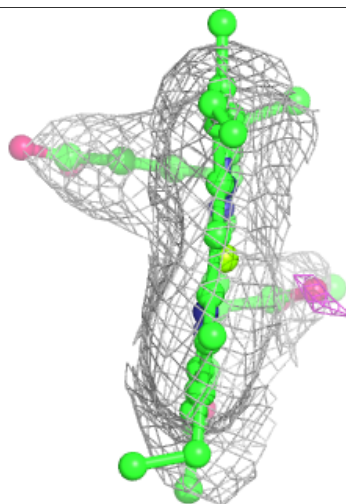
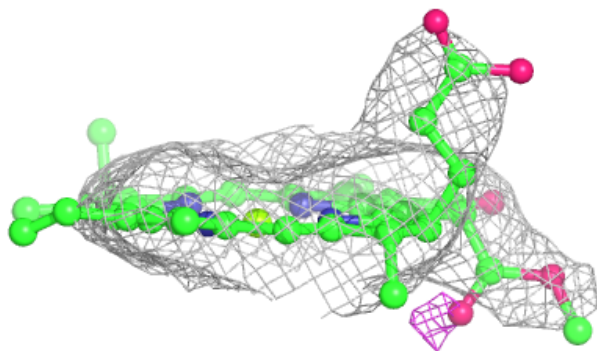
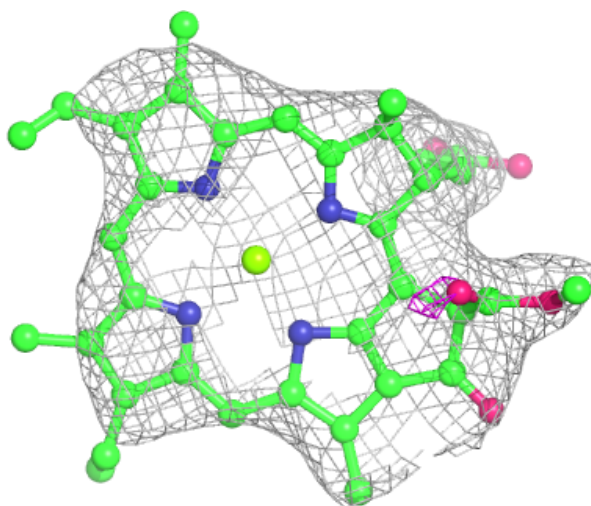
**Electron density around CLA 4 612:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



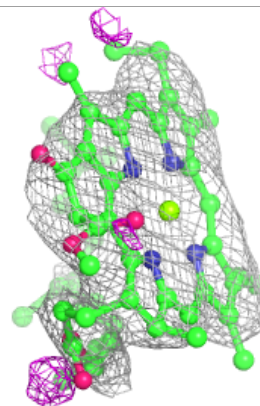
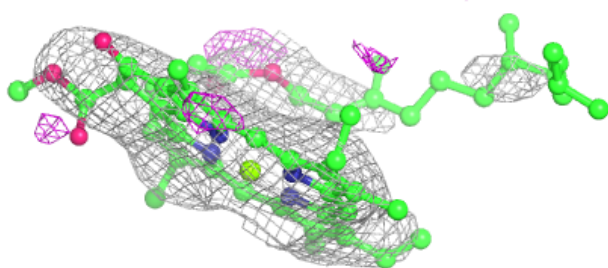
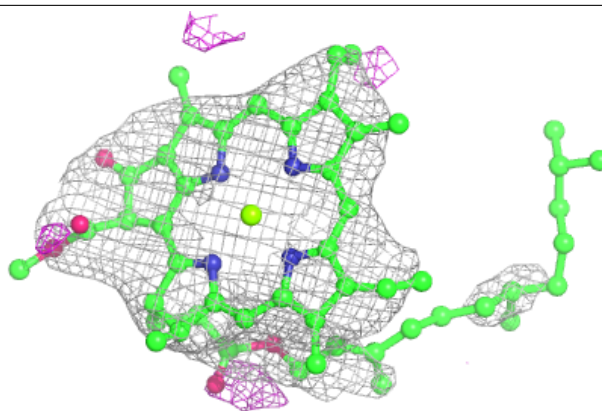
Electron density around CLA 4 613:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

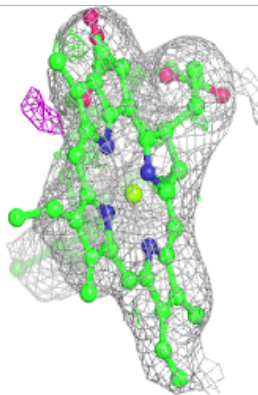
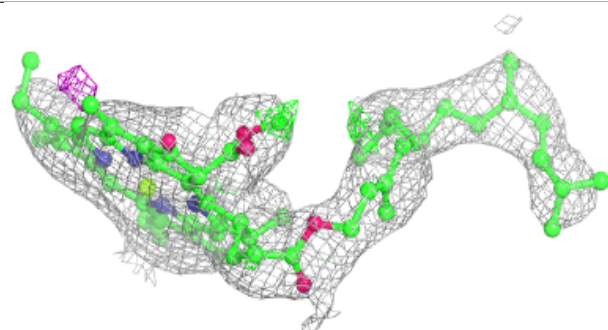
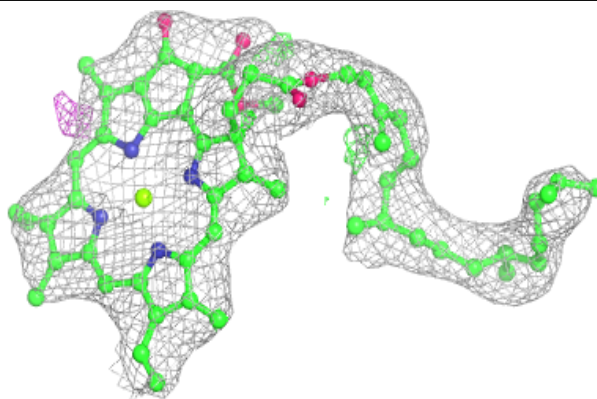


Electron density around CLA 6 311:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

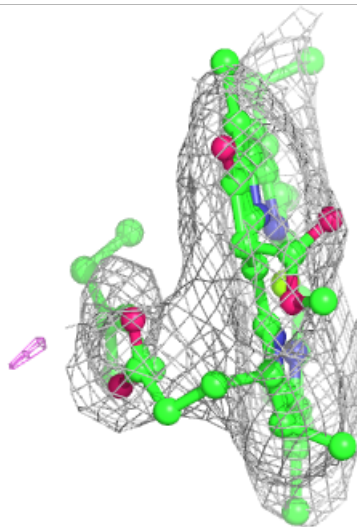
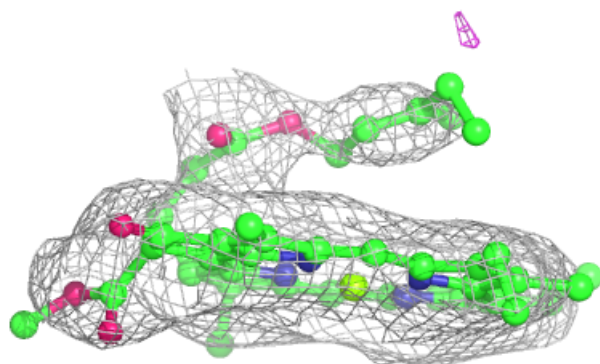
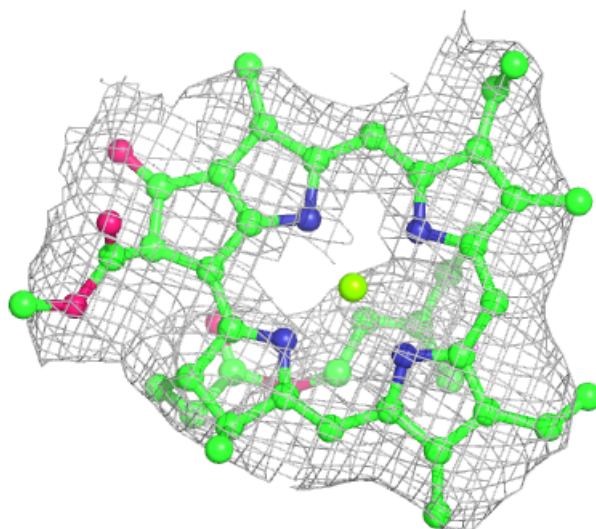
**Electron density around CLA a 804:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



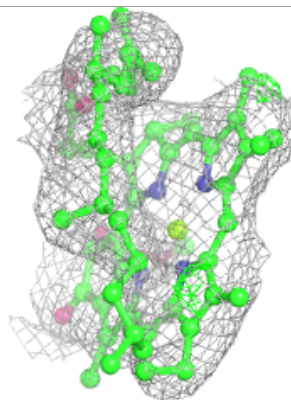
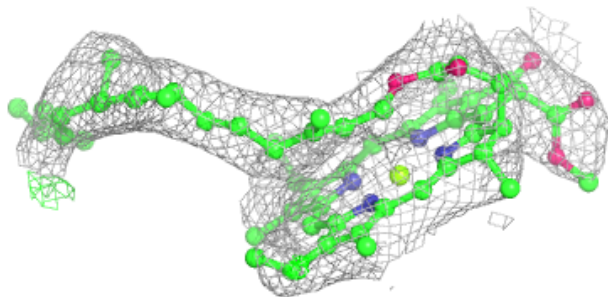
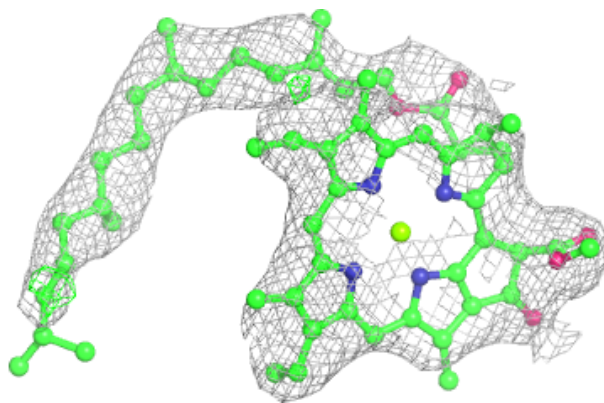
Electron density around CLA a 824:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



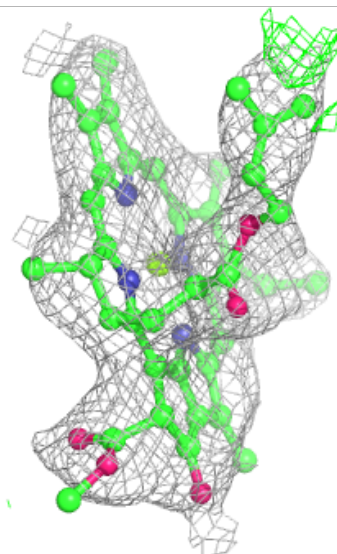
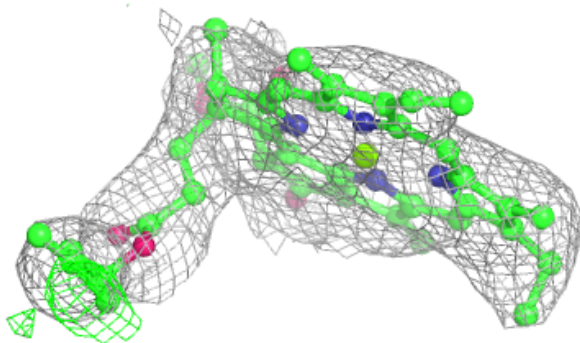
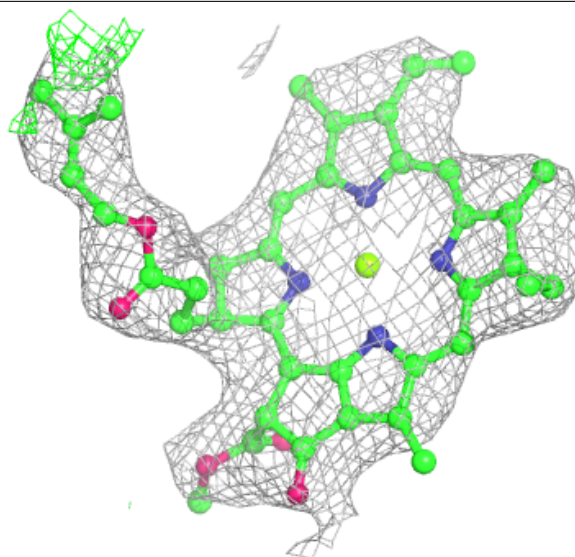
Electron density around CLA 7 602:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



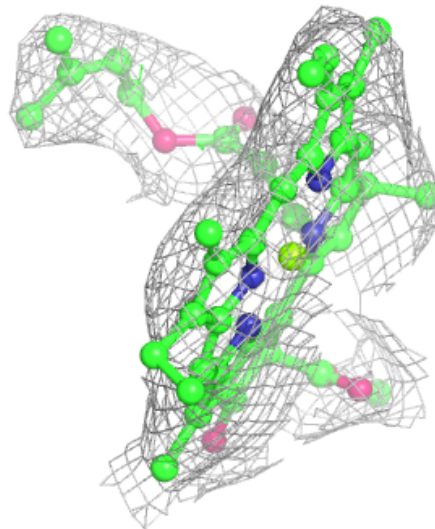
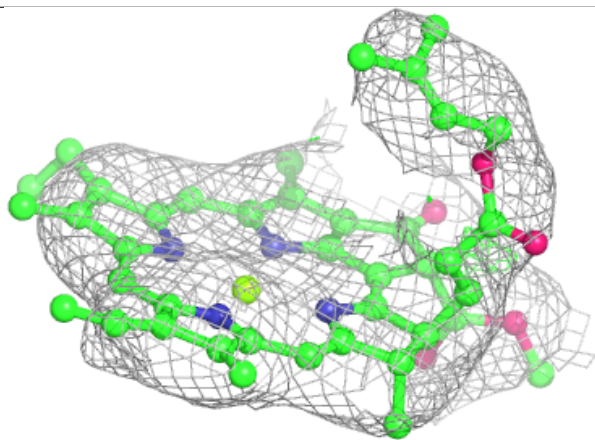
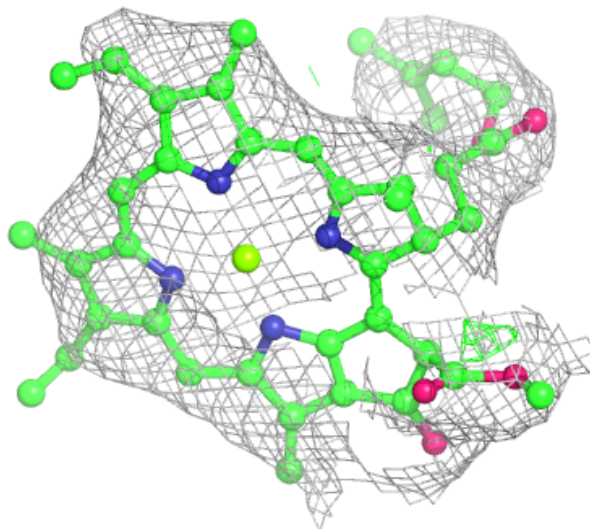
Electron density around CLA a 836:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



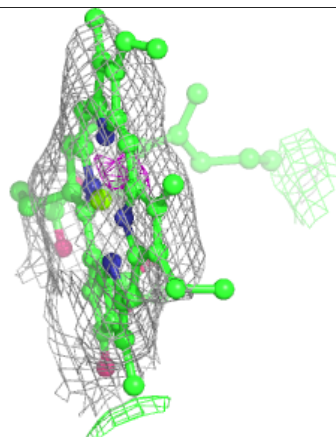
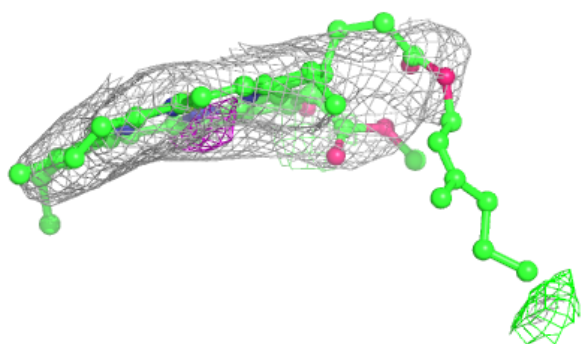
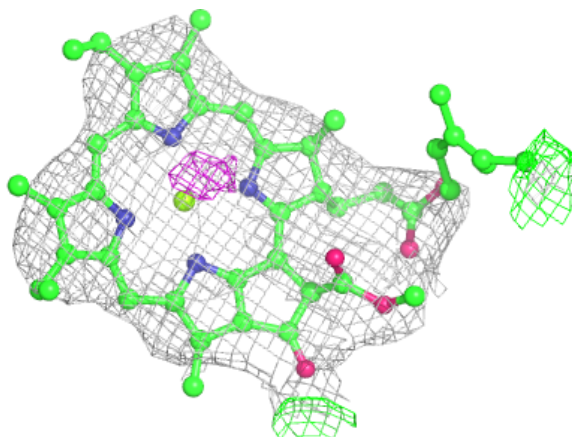
Electron density around CLA 7 608:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



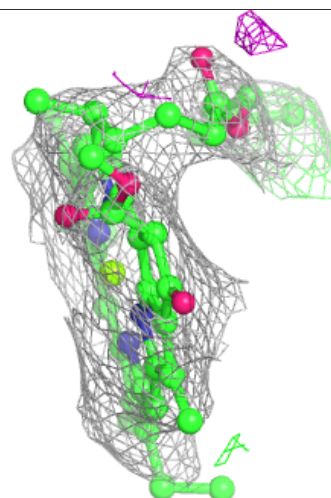
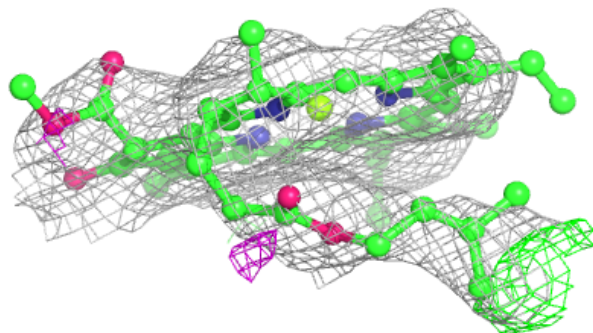
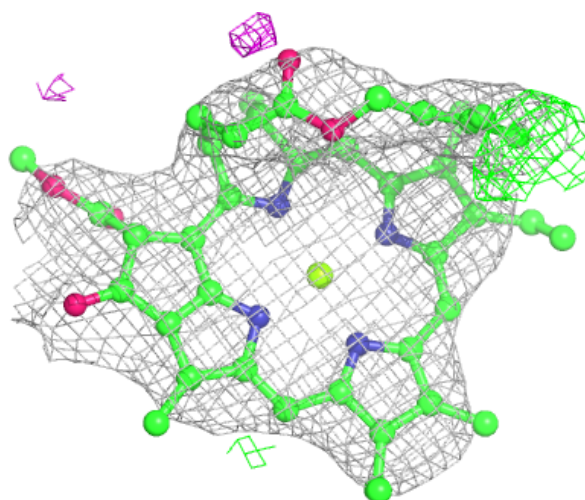
Electron density around CLA 7 611:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



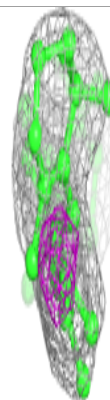
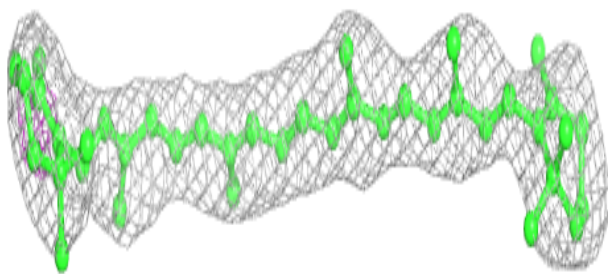
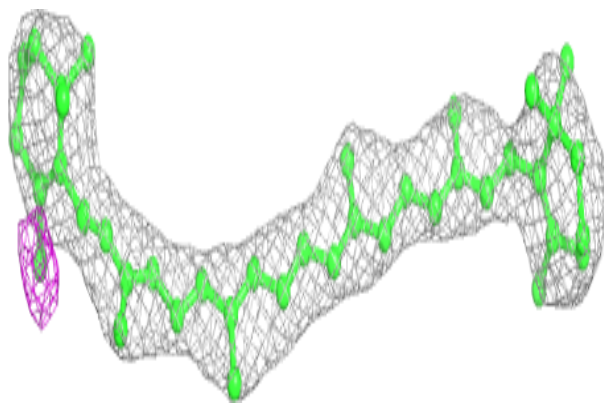
Electron density around CLA 8 308:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

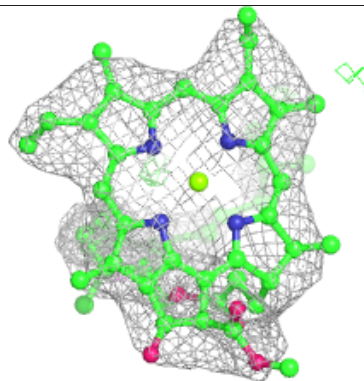
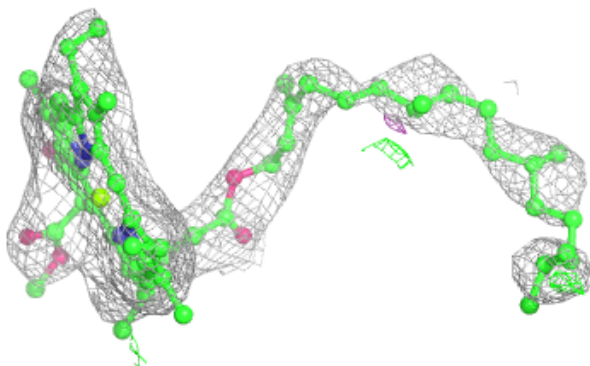
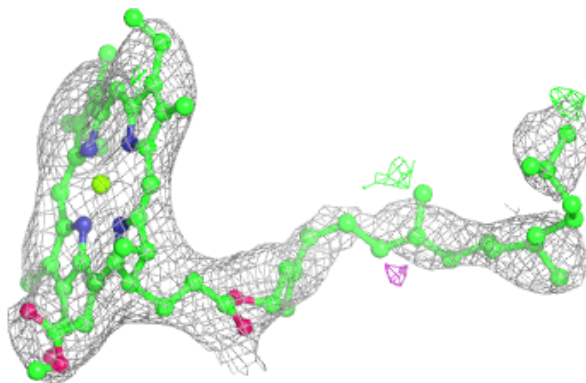


Electron density around BCR b 847:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

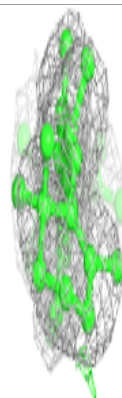
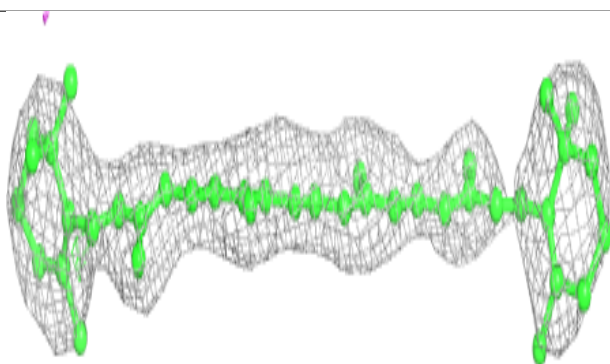
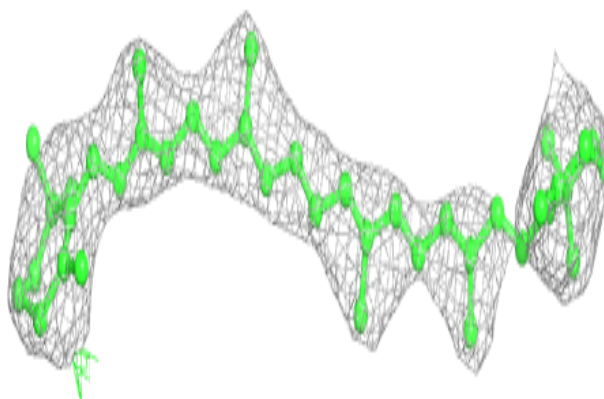
**Electron density around CLA L 203:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

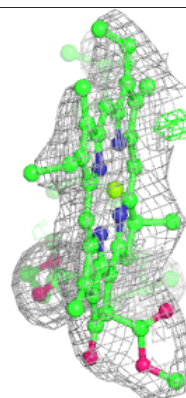
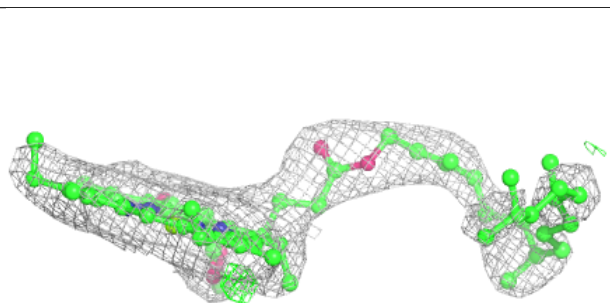
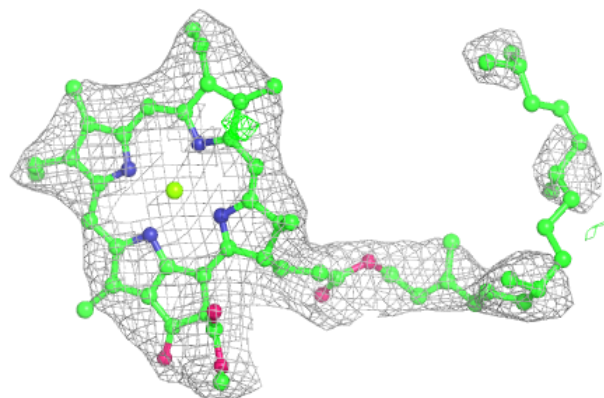


Electron density around BCR b 846:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

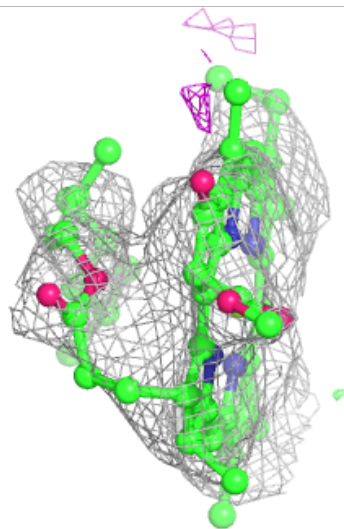
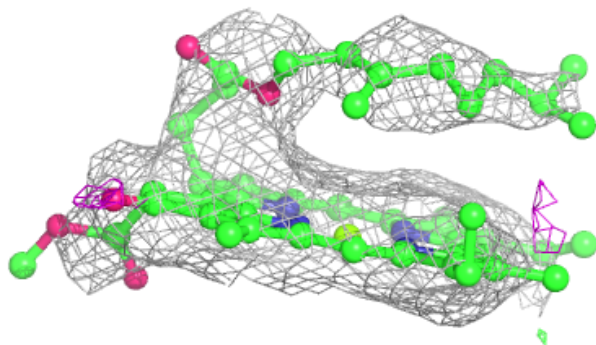
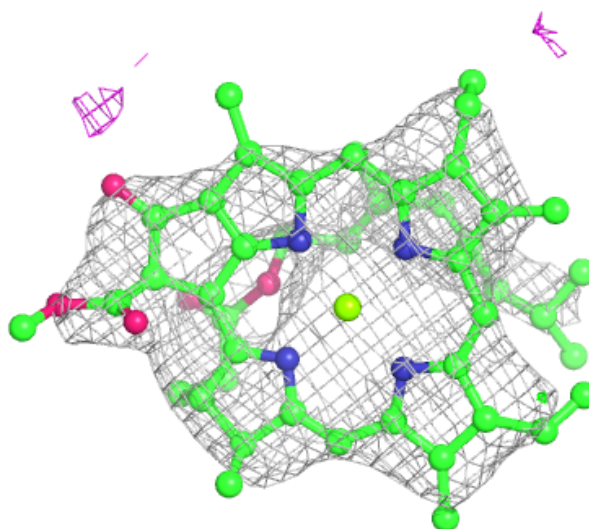
**Electron density around CLA A 827:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



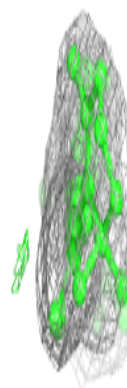
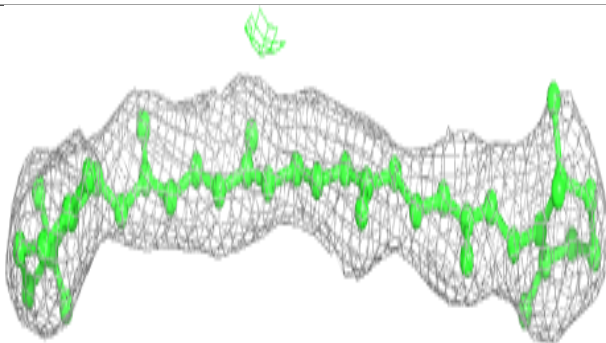
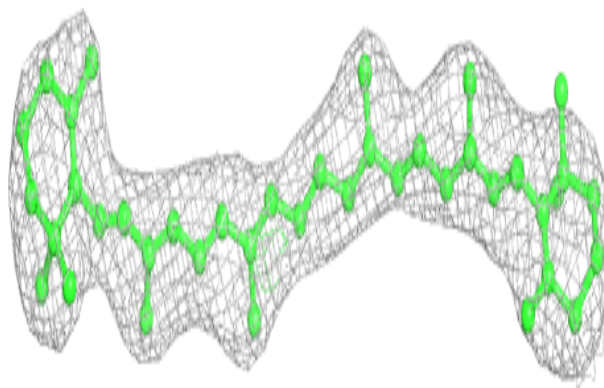
Electron density around CLA 8 310:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



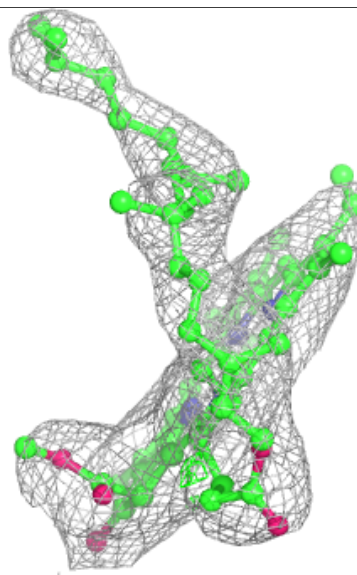
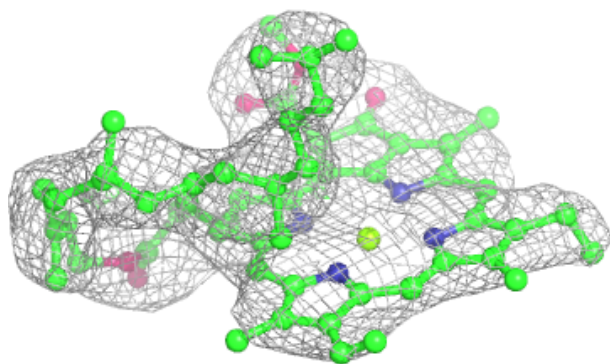
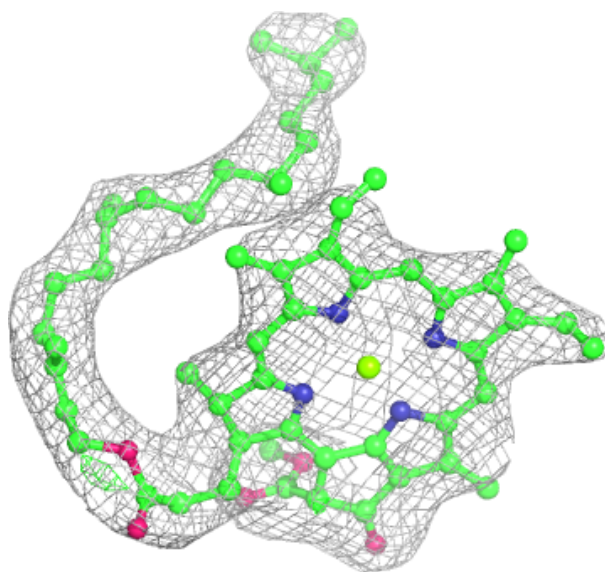
Electron density around BCR j 3003:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



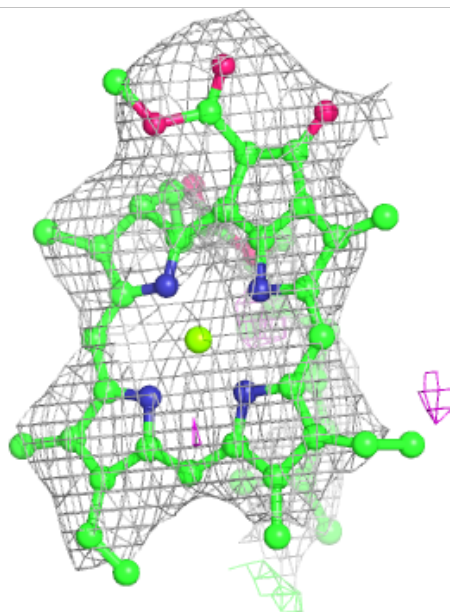
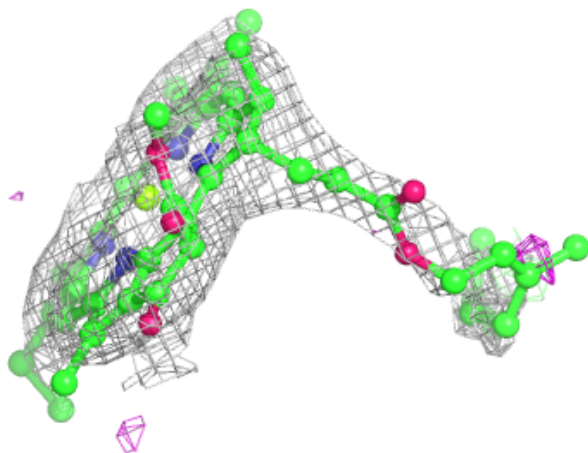
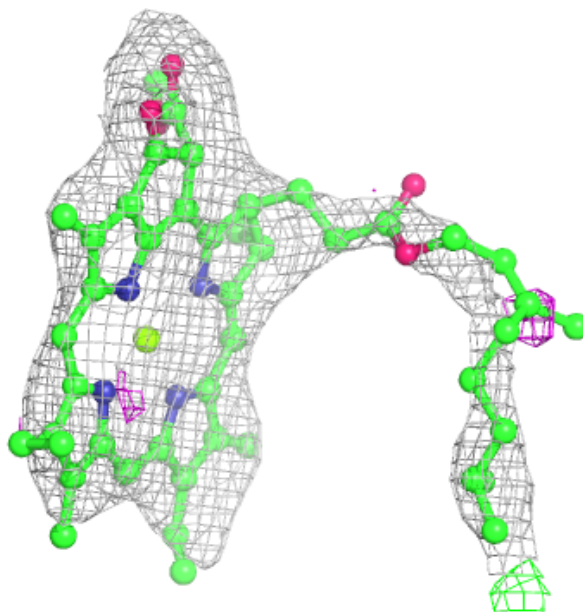
Electron density around CLA A 814:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



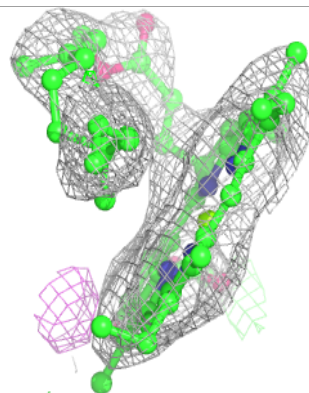
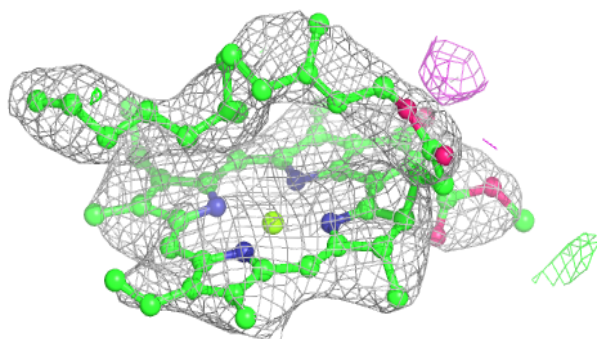
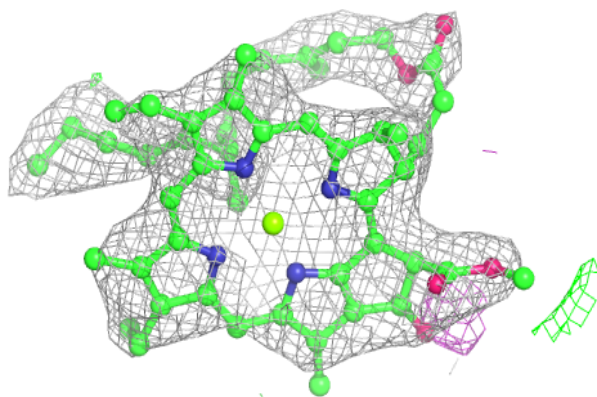
Electron density around CLA b 815:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



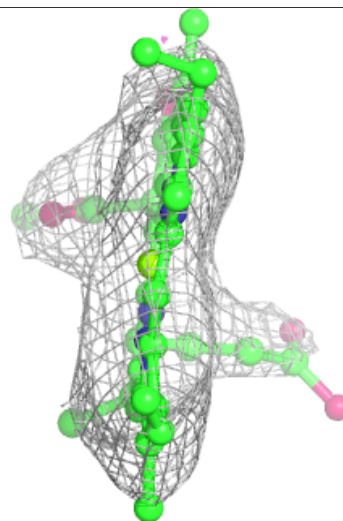
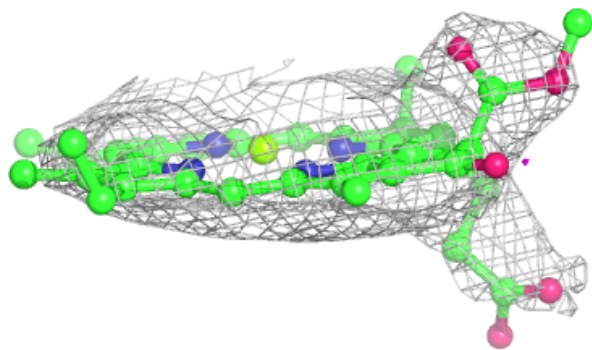
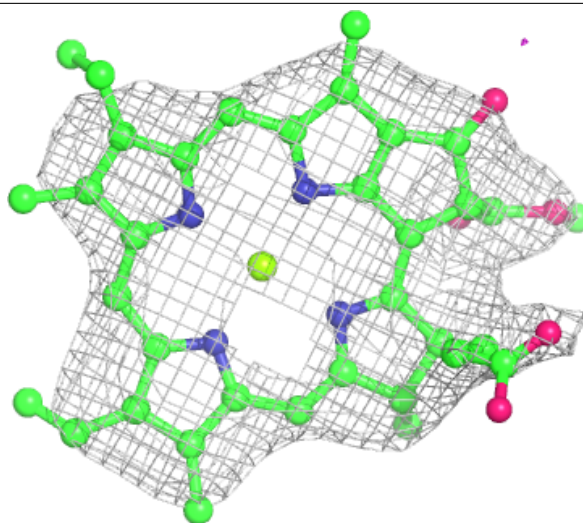
Electron density around CLA b 817:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



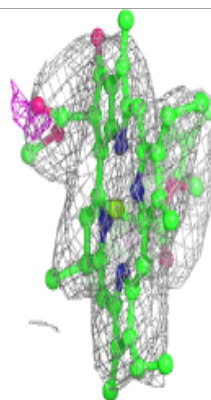
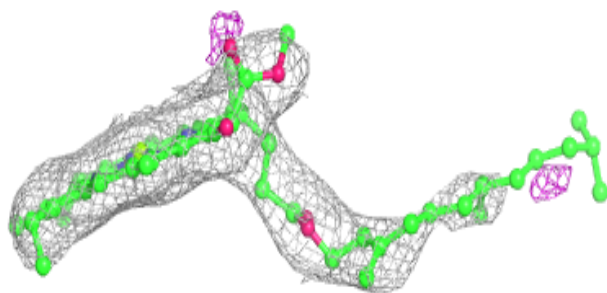
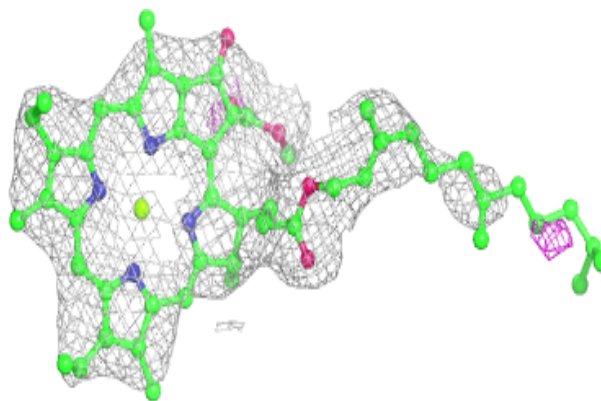
Electron density around CLA A 817:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

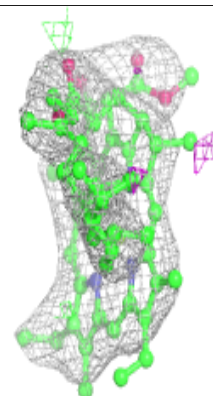
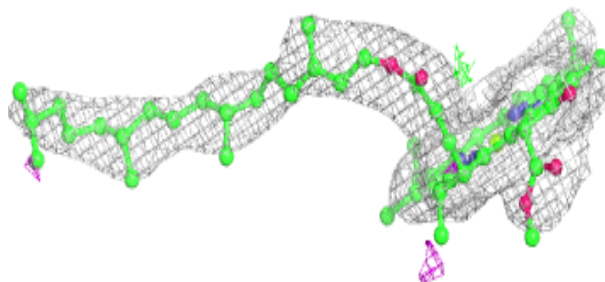
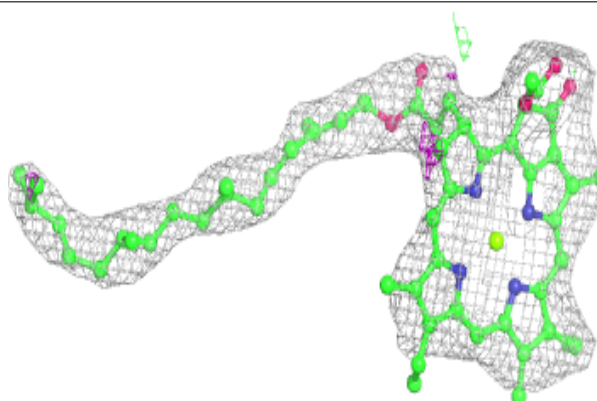


Electron density around CLA b 823:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

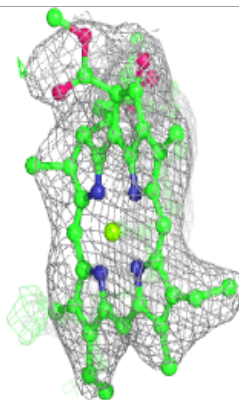
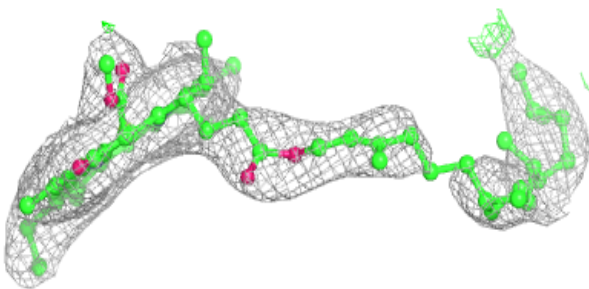
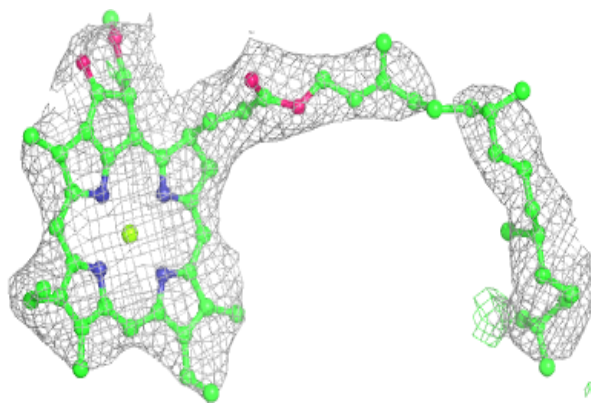
**Electron density around CLA A 835:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



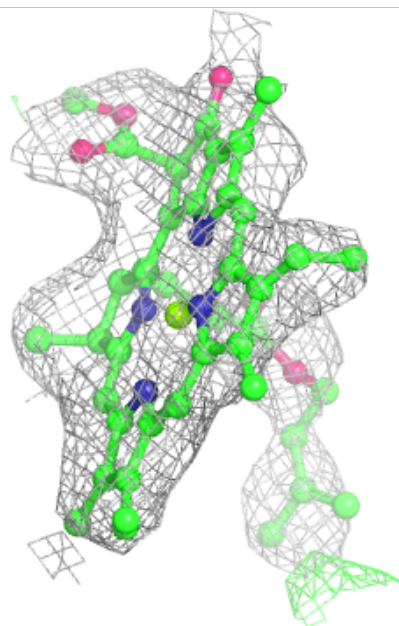
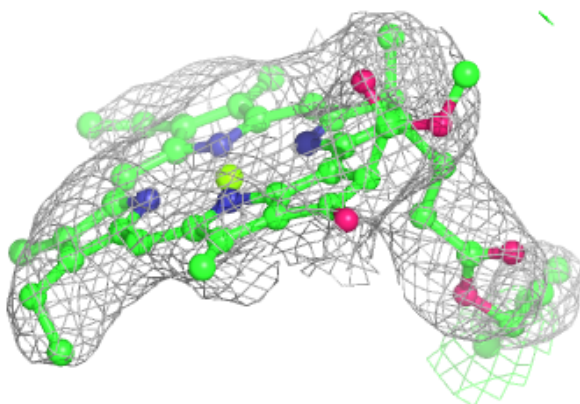
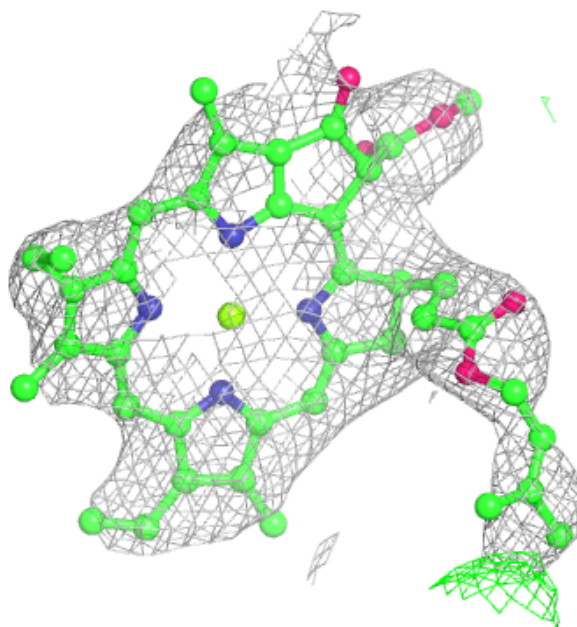
Electron density around CLA b 825:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



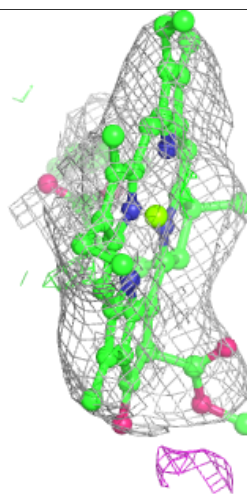
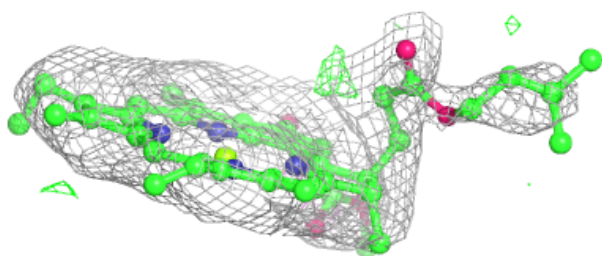
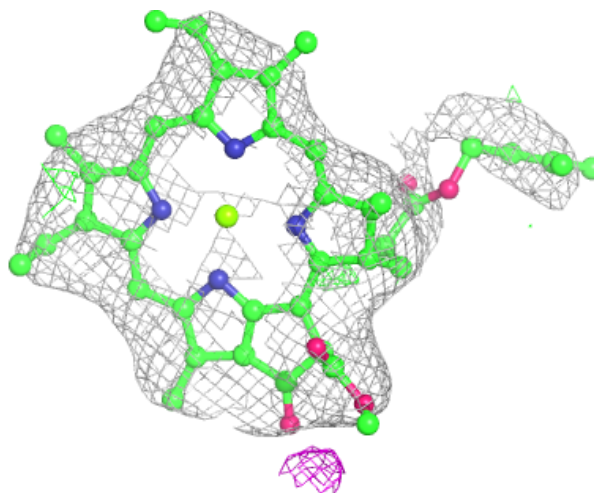
Electron density around CLA A 836:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



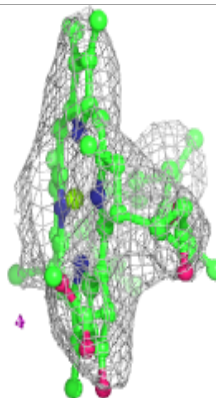
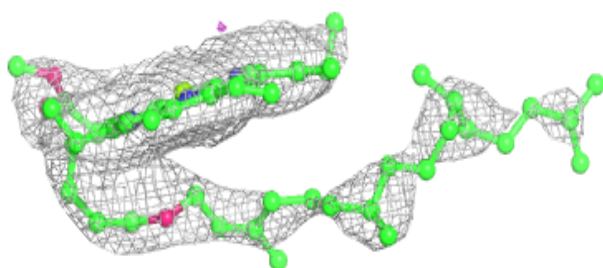
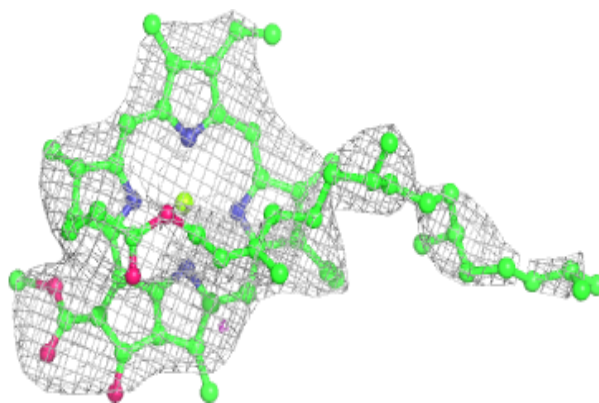
Electron density around CLA L 204:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

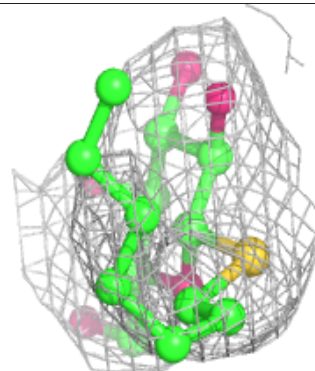
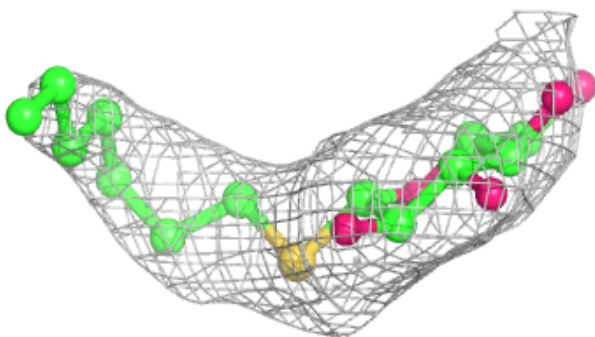
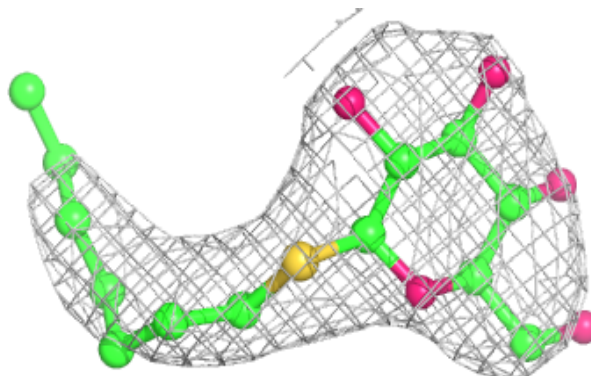


Electron density around CLA A 818:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

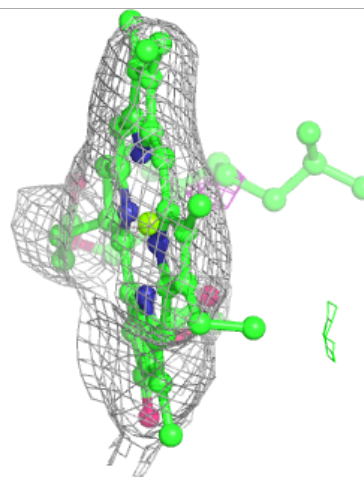
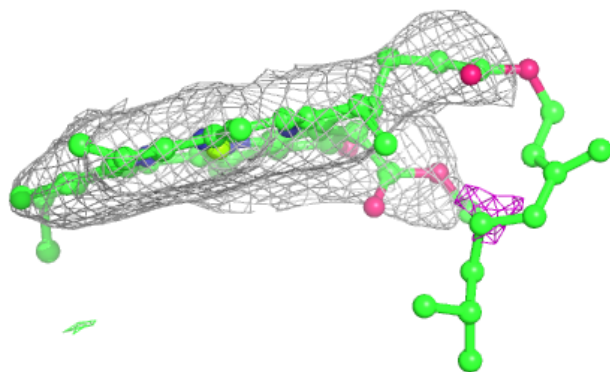
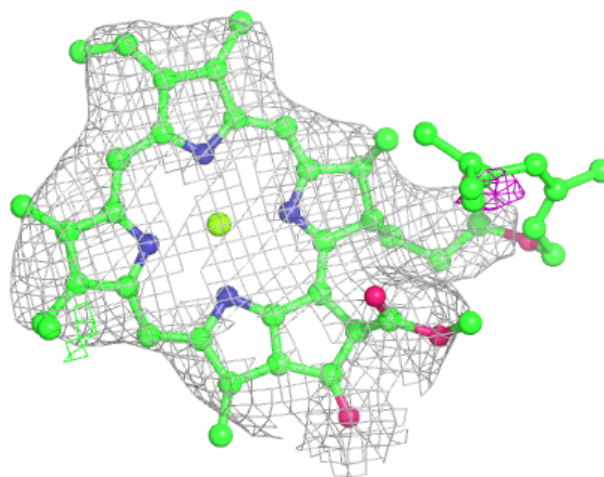
**Electron density around HTG j 3001:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



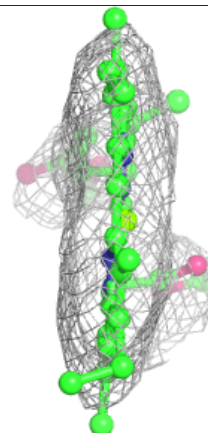
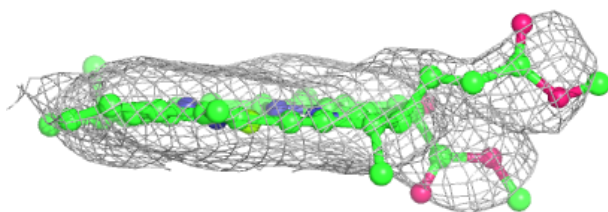
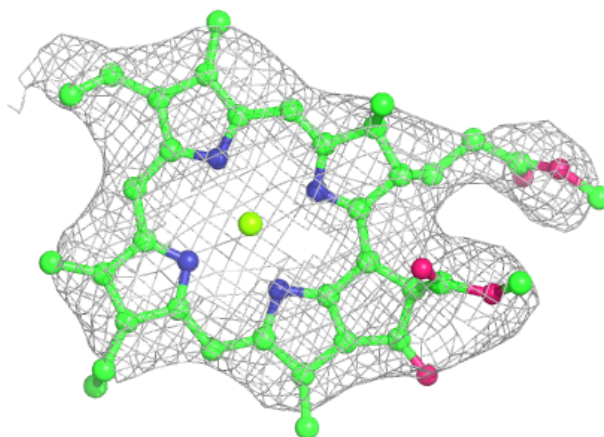
Electron density around CLA f 7003:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



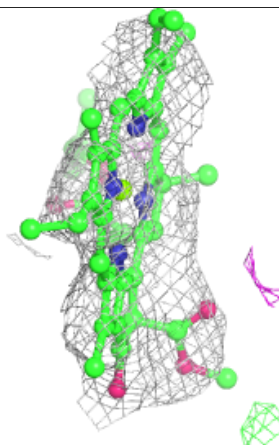
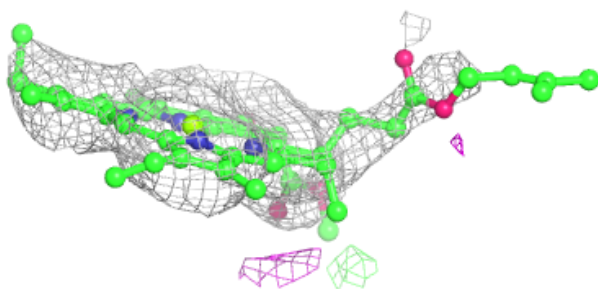
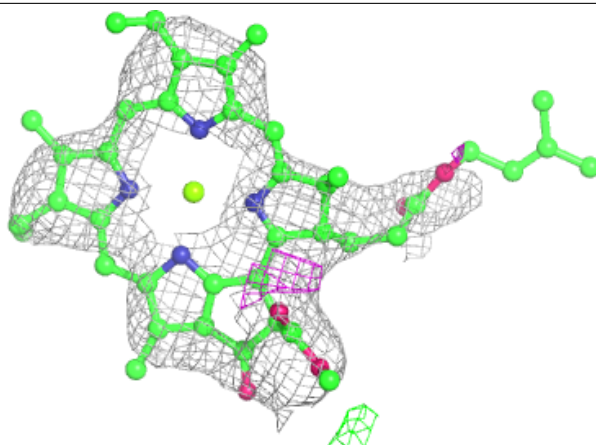
Electron density around CLA 3 314:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

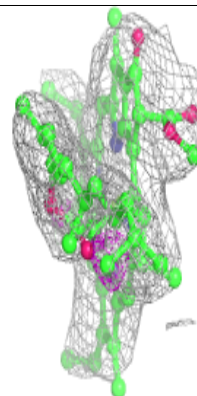
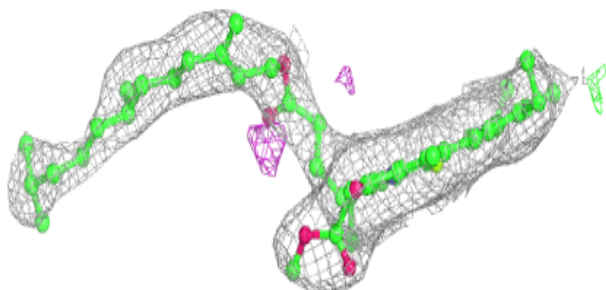
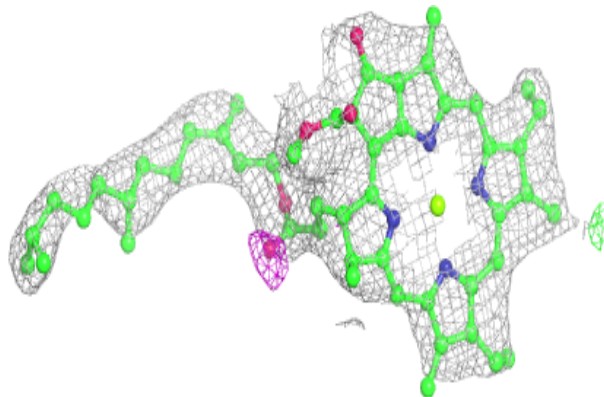


Electron density around CLA g 102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

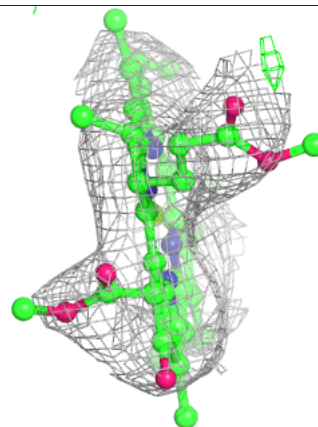
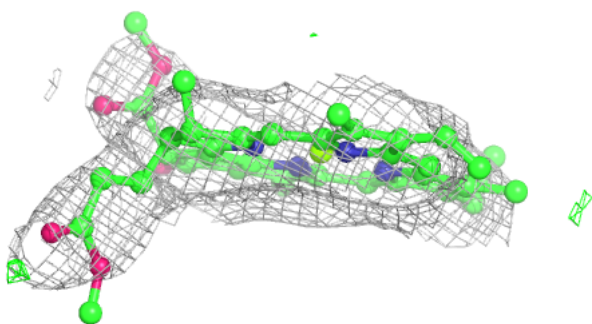
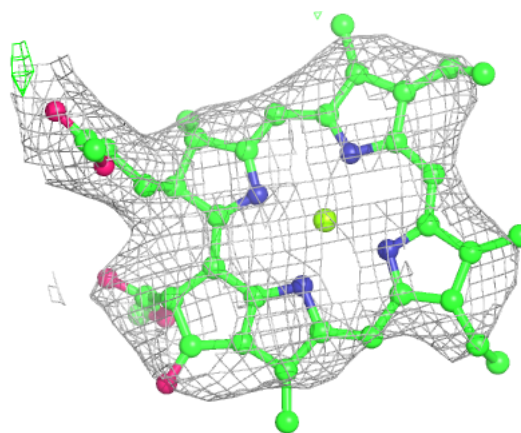
**Electron density around CLA B 823:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

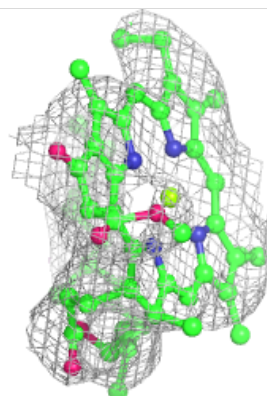
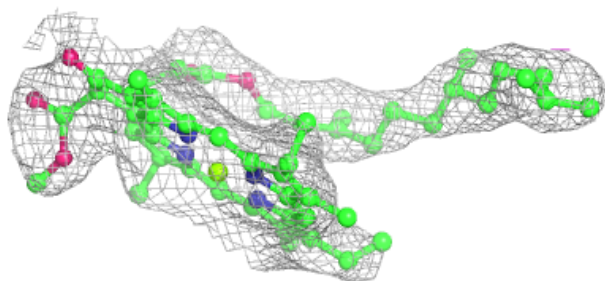
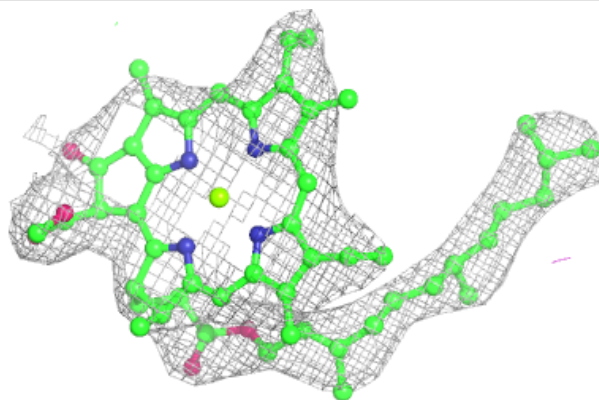


Electron density around CLA 4 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

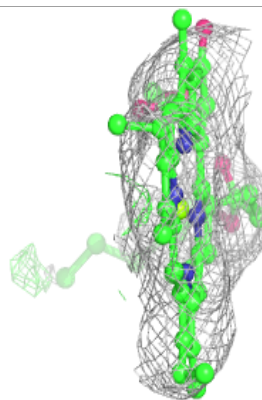
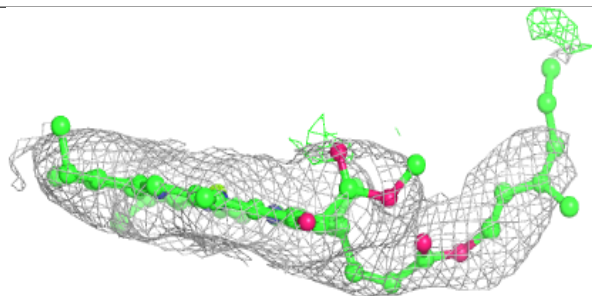
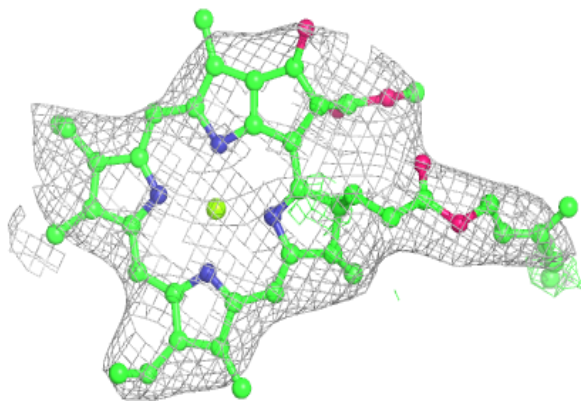
**Electron density around CLA 4 602:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



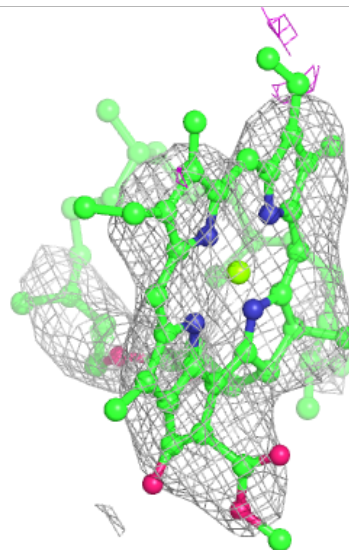
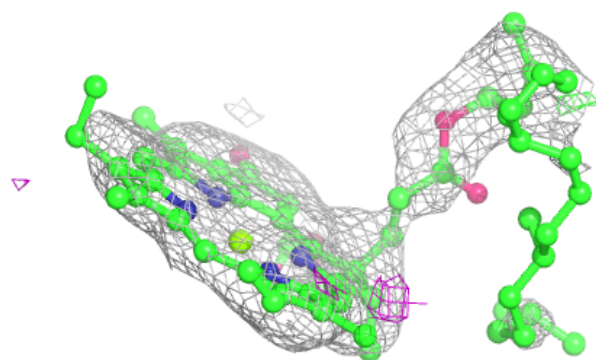
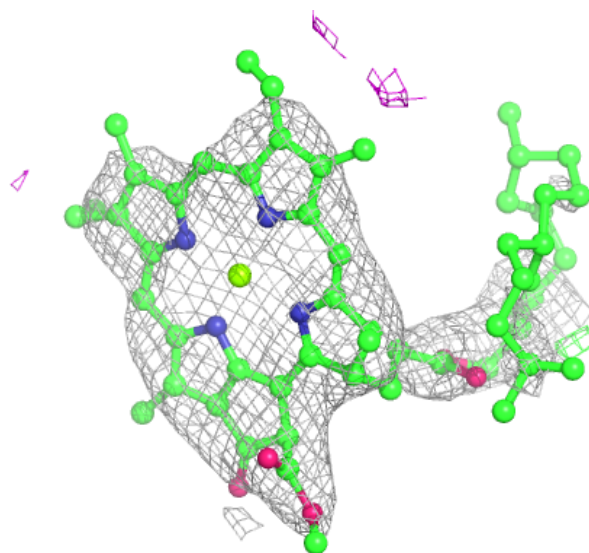
Electron density around CLA 1 306:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



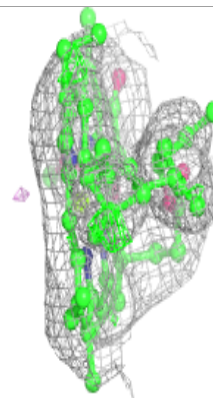
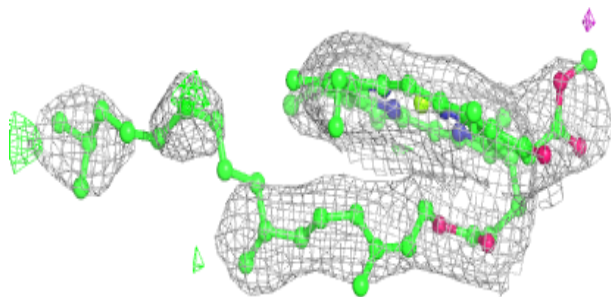
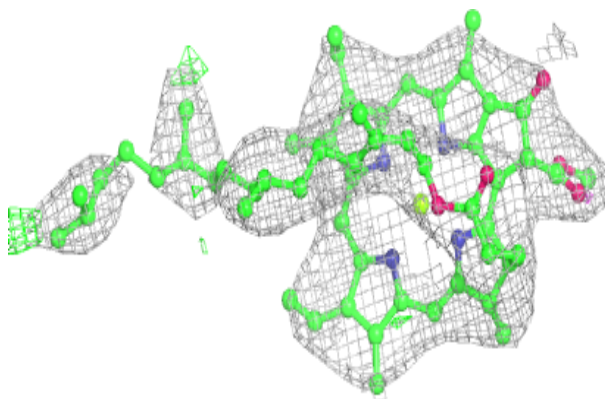
Electron density around CLA 1 308:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



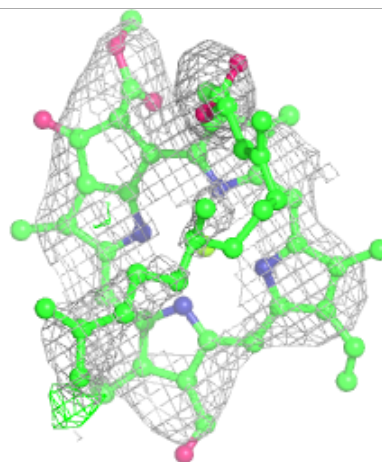
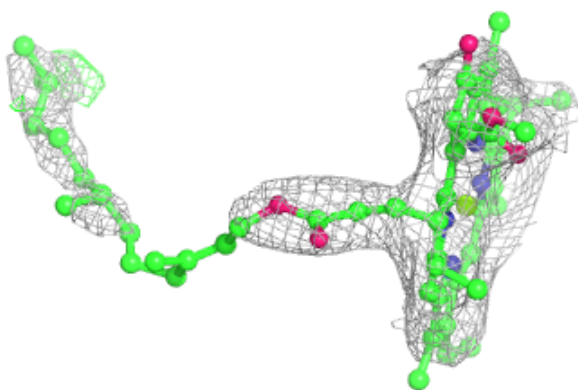
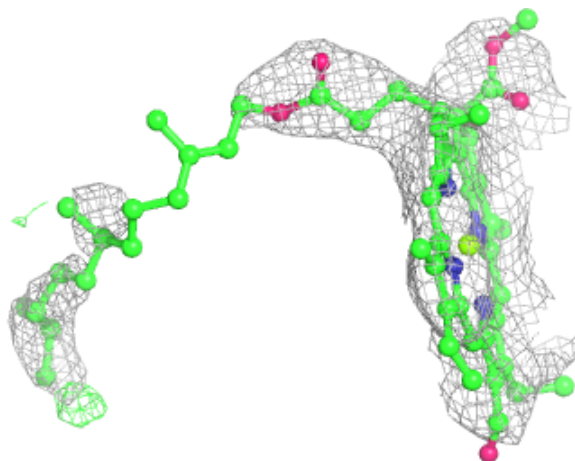
Electron density around CLA A 839:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



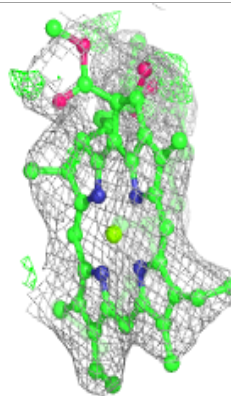
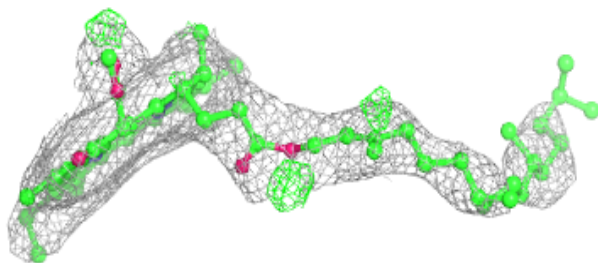
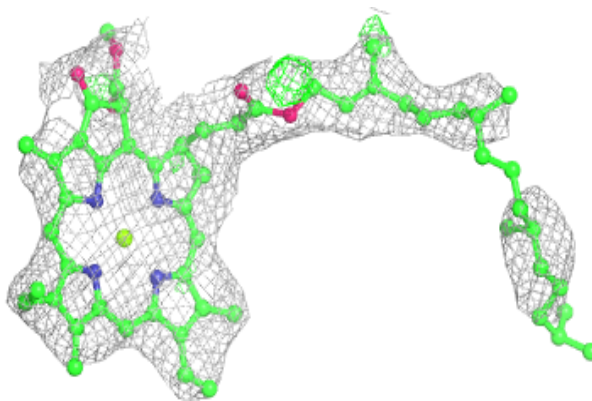
Electron density around CHL 2 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



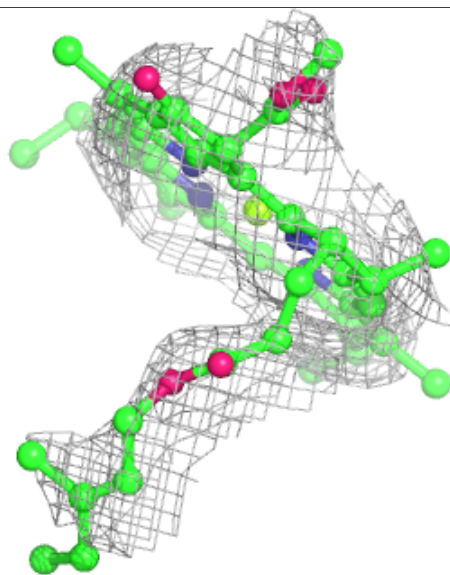
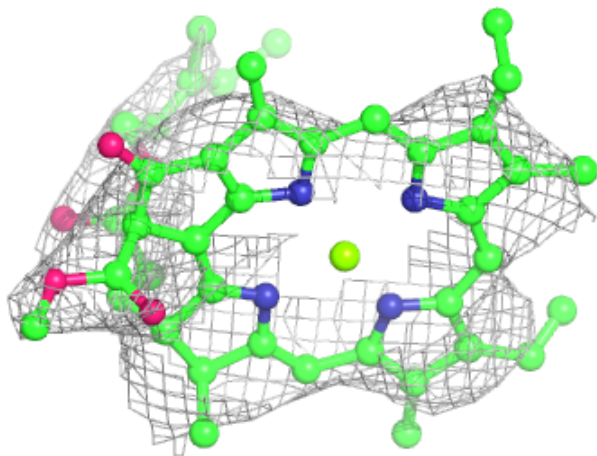
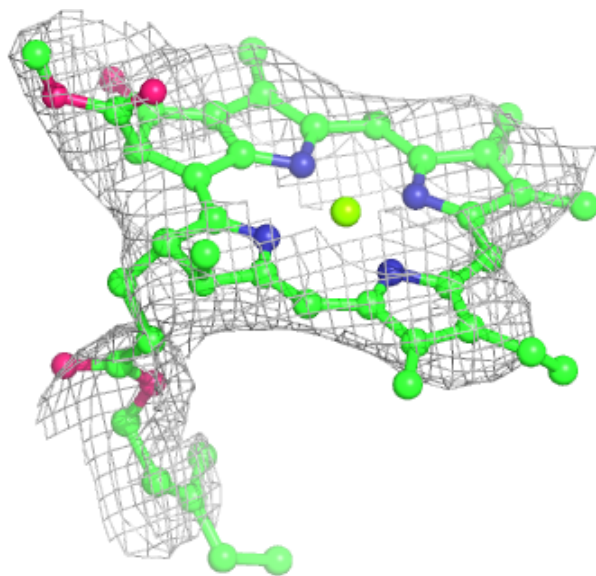
Electron density around CLA B 825:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



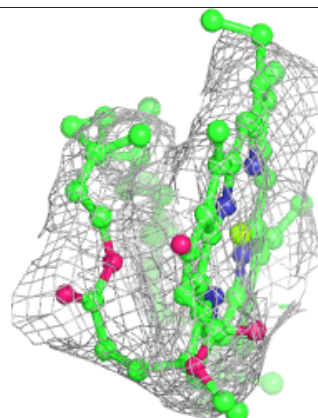
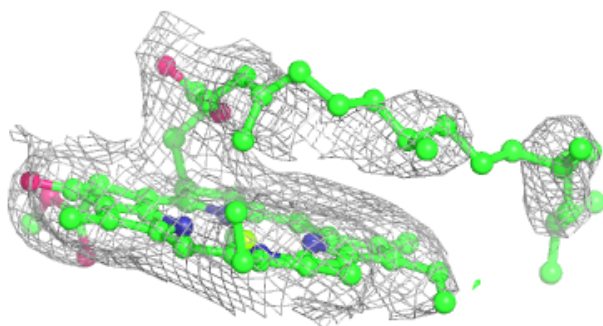
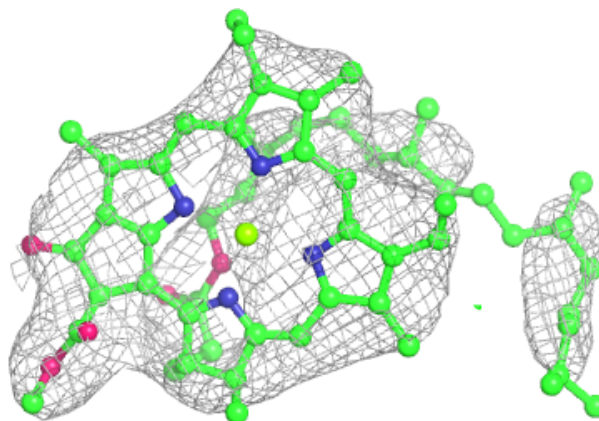
Electron density around CLA 6 306:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



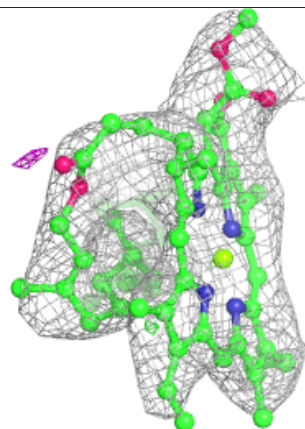
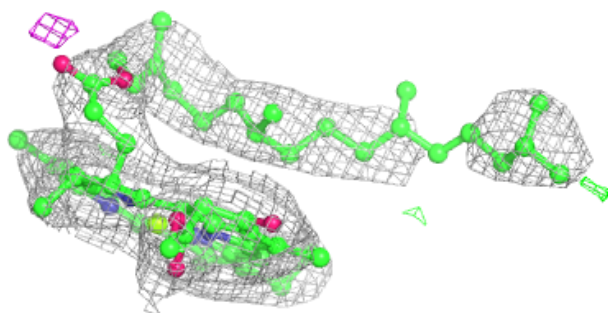
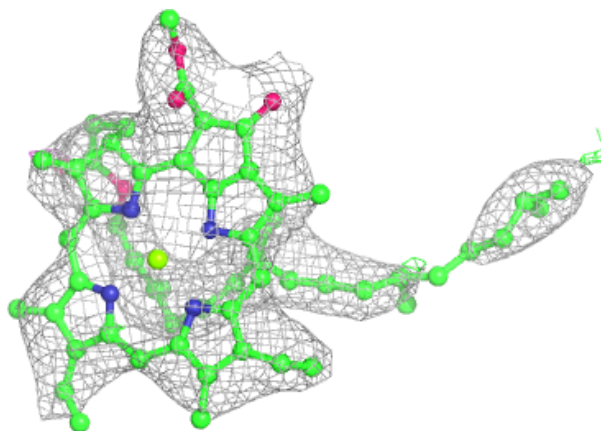
Electron density around CLA 1 313:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

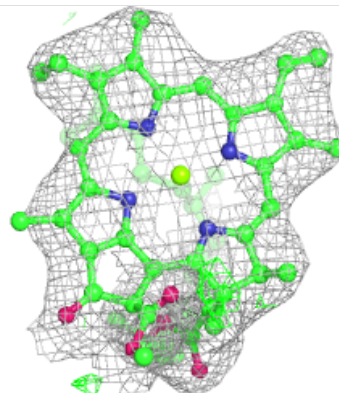
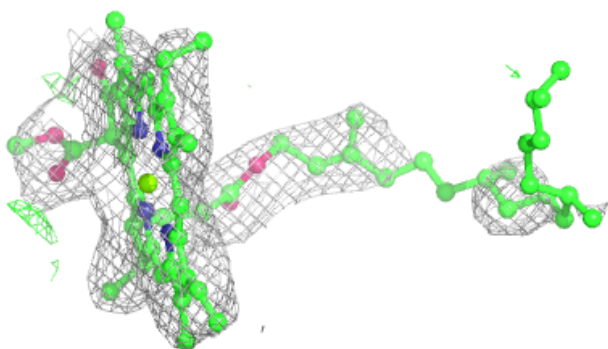
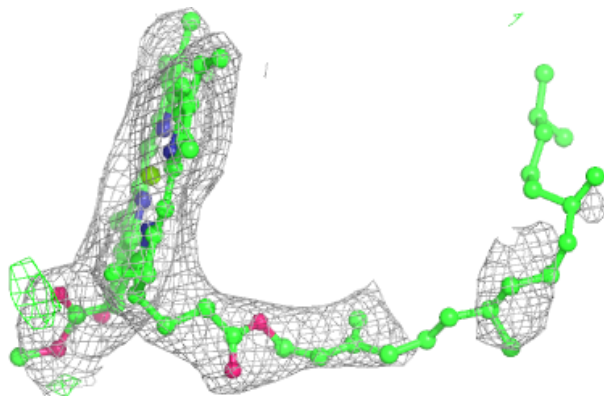


Electron density around CLA B 827:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

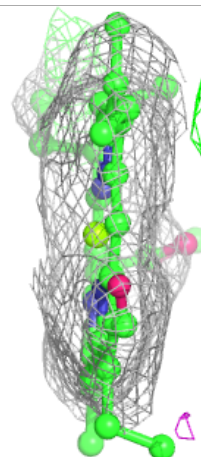
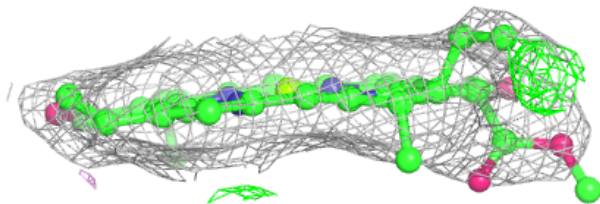
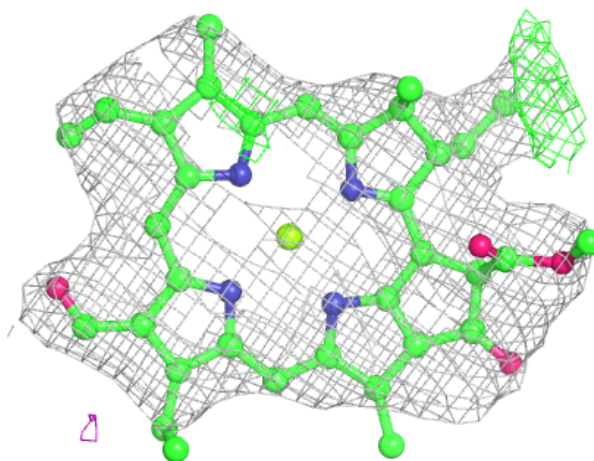
**Electron density around CLA A 808:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



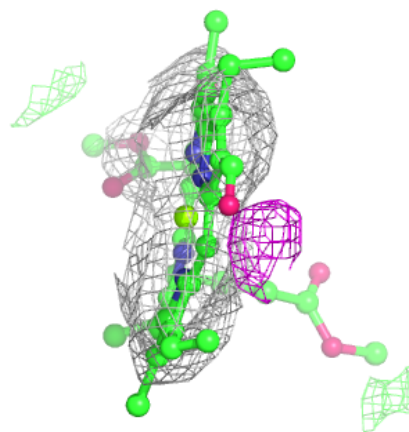
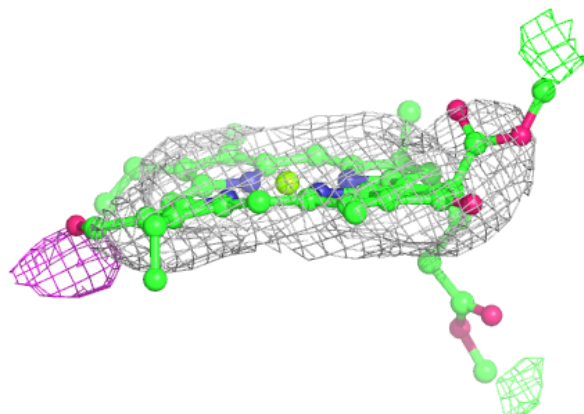
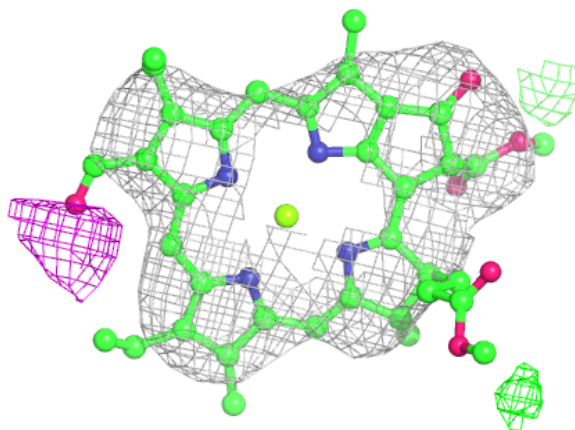
Electron density around CHL 4 615:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



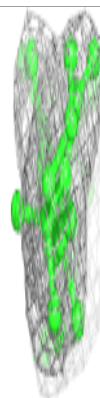
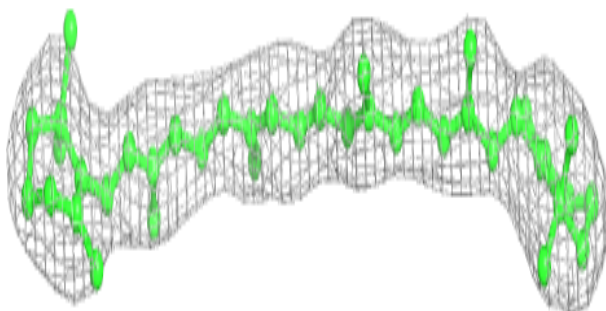
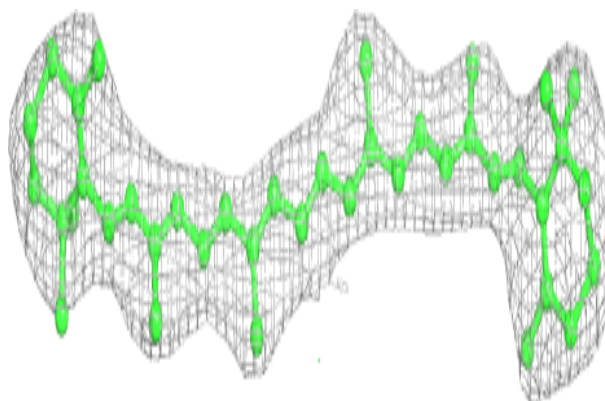
Electron density around CHL 6 308:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



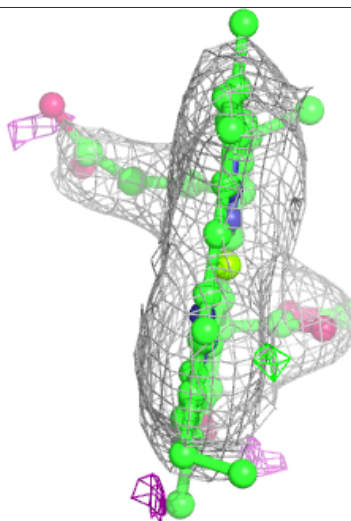
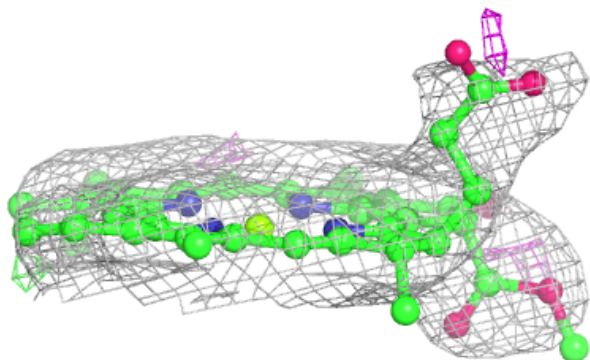
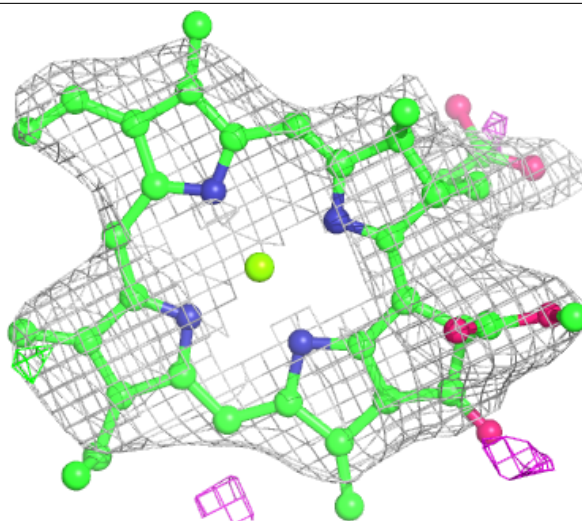
Electron density around BCR J 3003:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



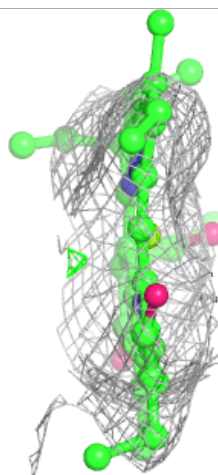
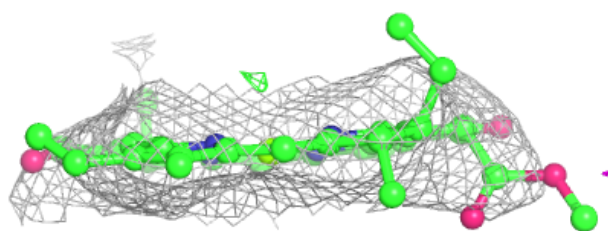
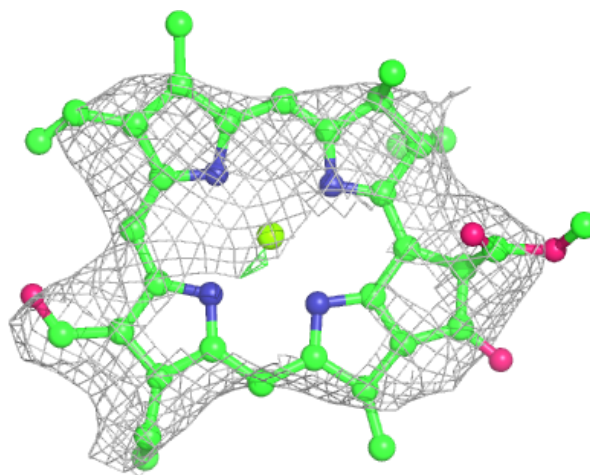
Electron density around CLA a 817:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



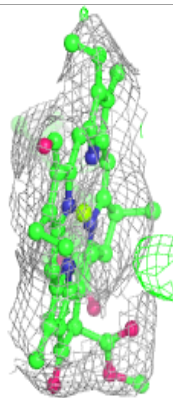
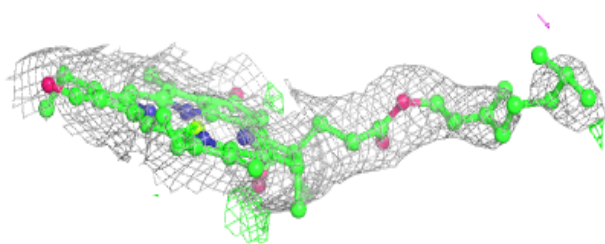
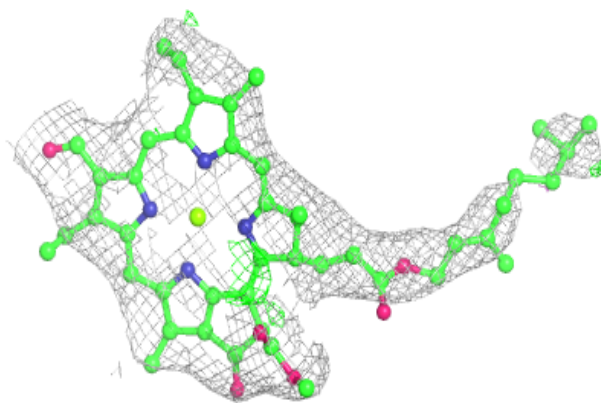
Electron density around CHL 7 614:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



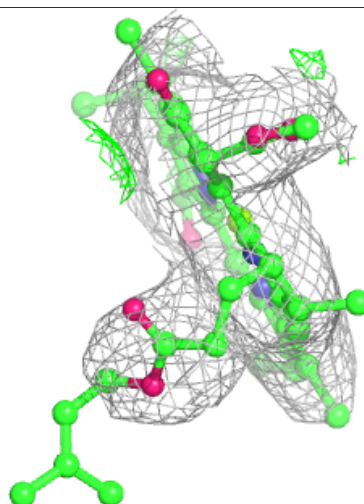
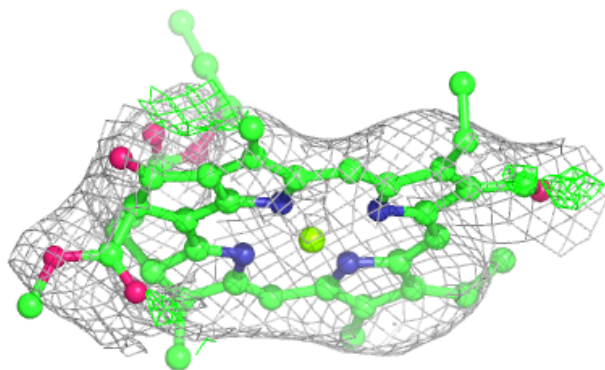
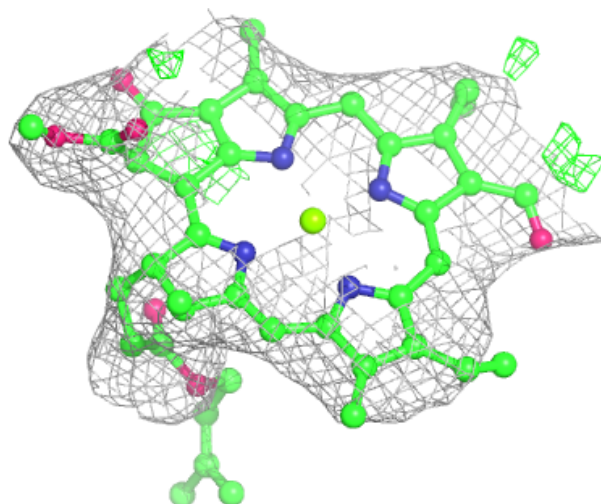
Electron density around CHL 9 605:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



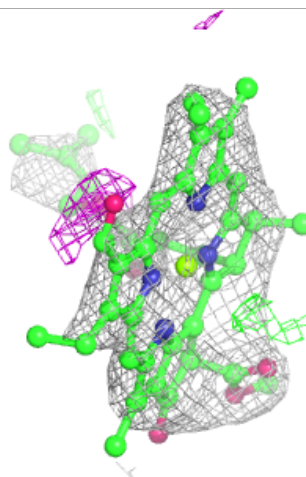
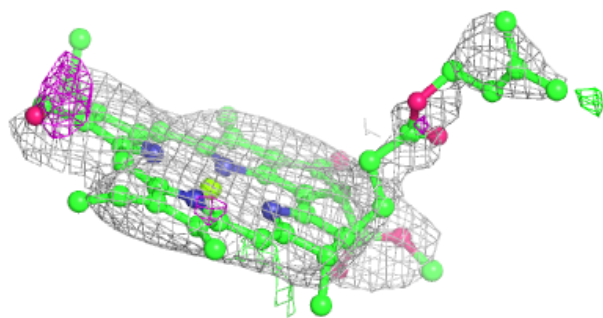
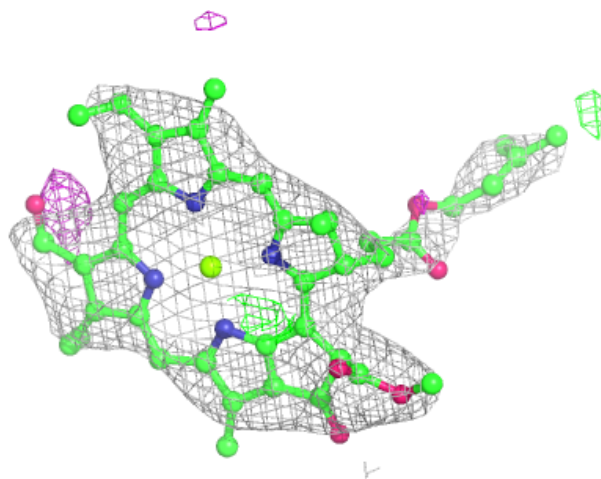
Electron density around CHL 9 606:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



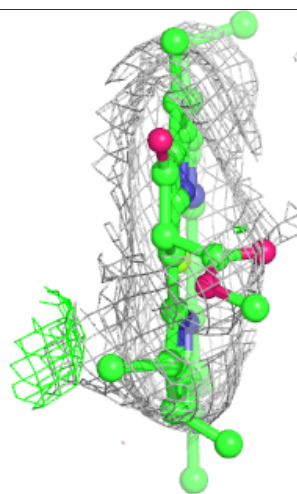
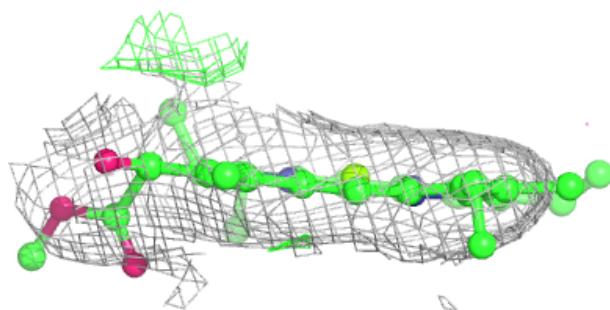
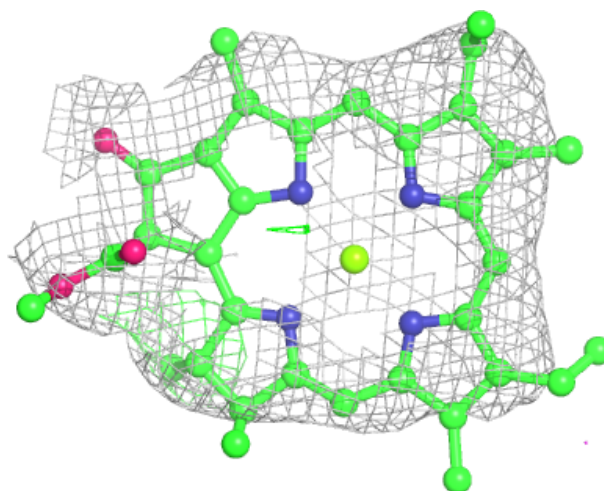
Electron density around CHL 9 607:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



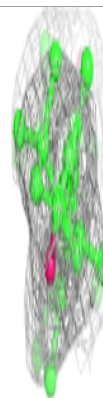
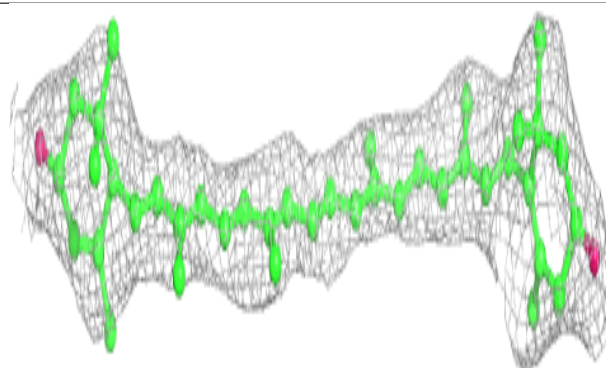
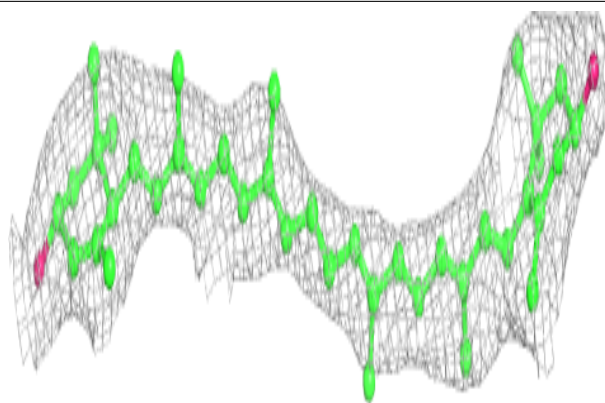
Electron density around CLA 6 312:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

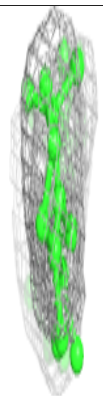
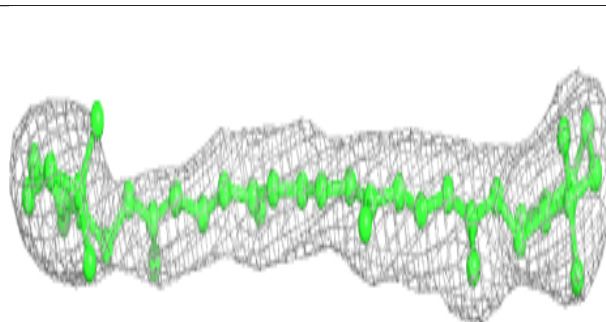
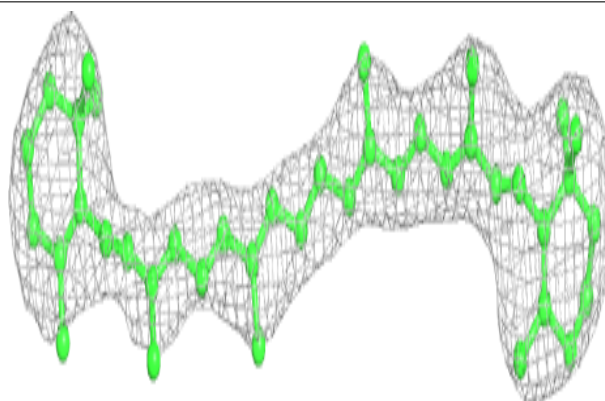


Electron density around LUT 1 316:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

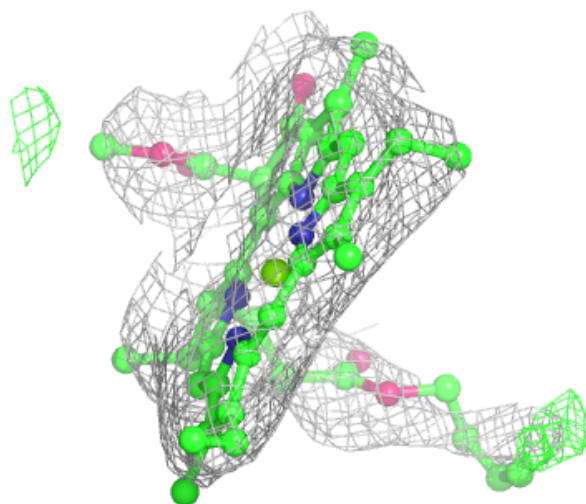
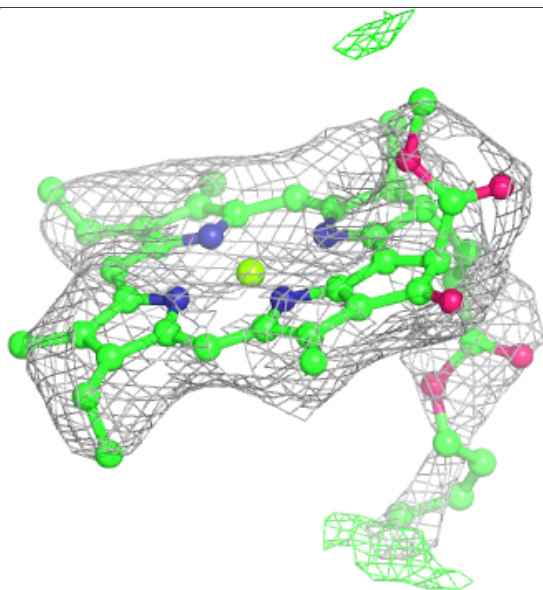
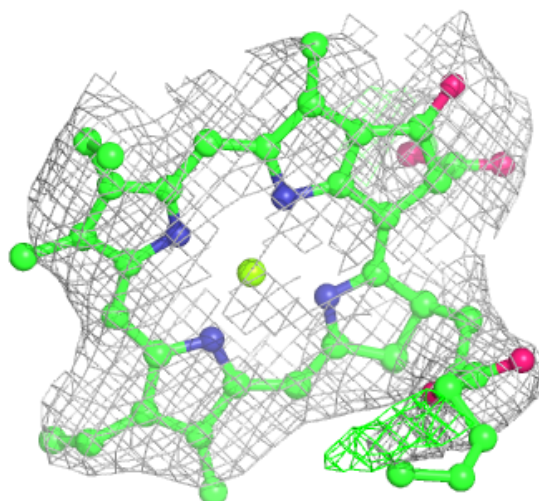
**Electron density around BCR L 205:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



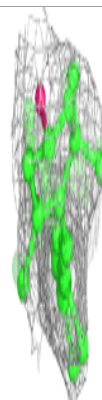
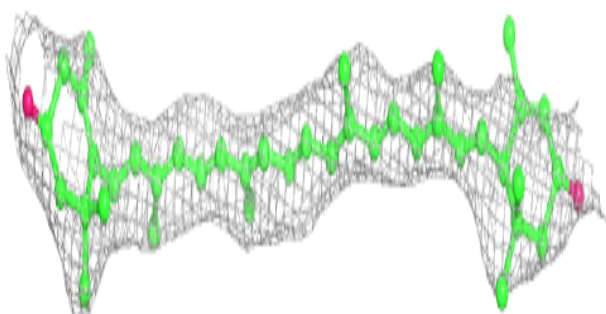
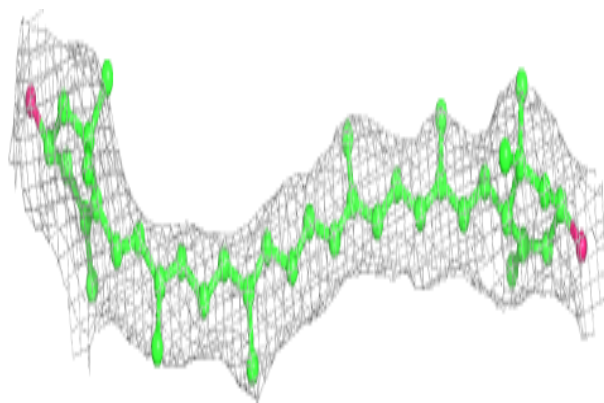
Electron density around CLA a 823:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

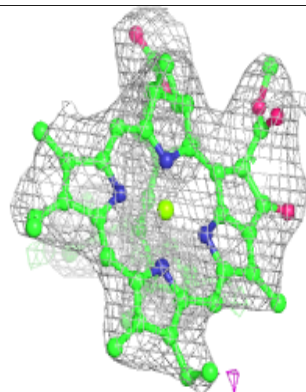
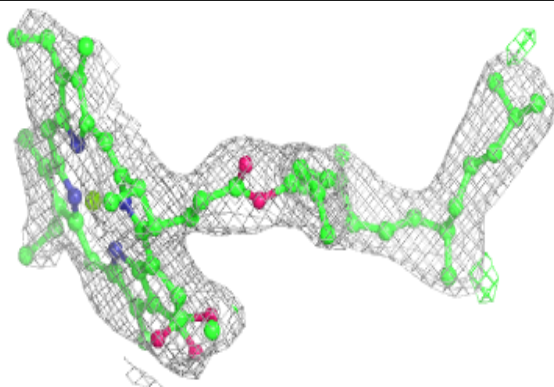
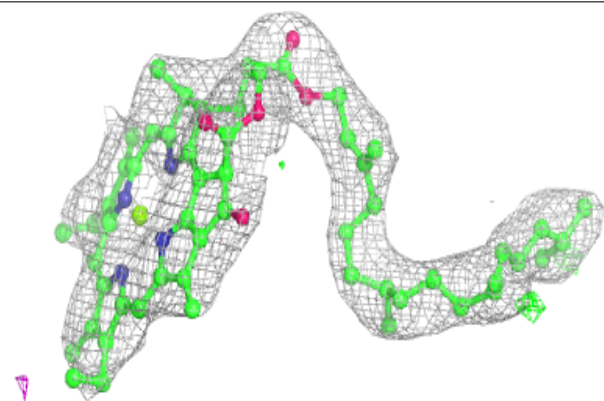


Electron density around LUT 3 316:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

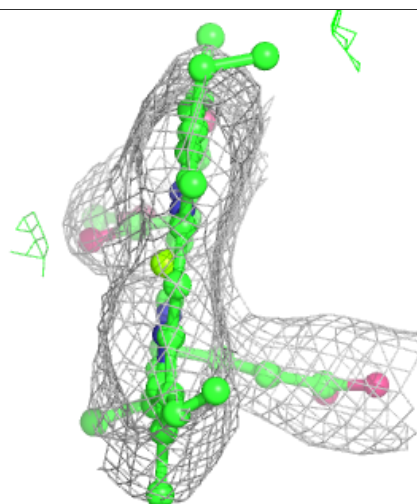
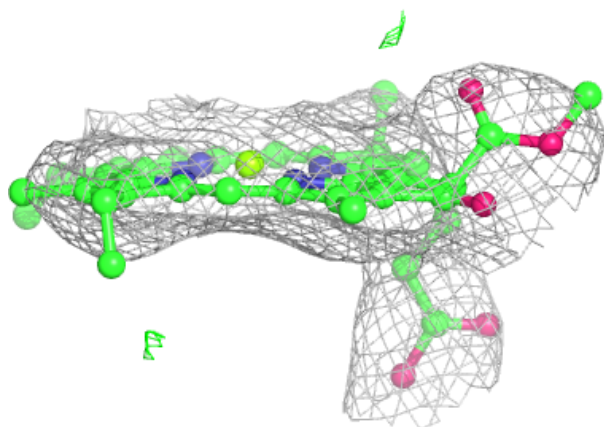
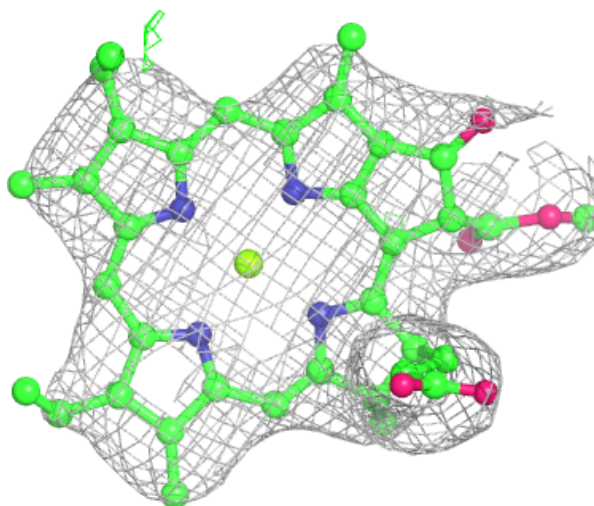
**Electron density around CLA B 802:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



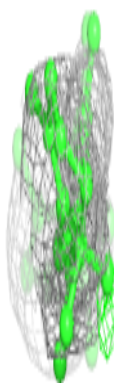
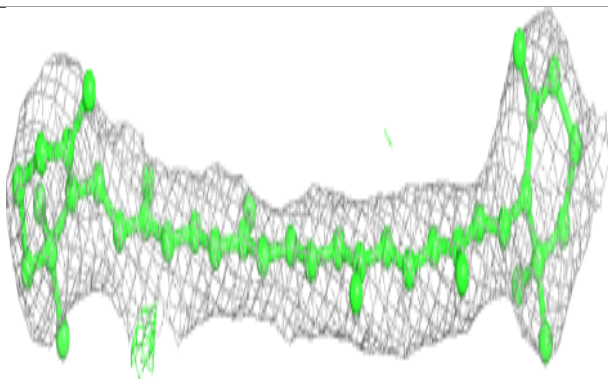
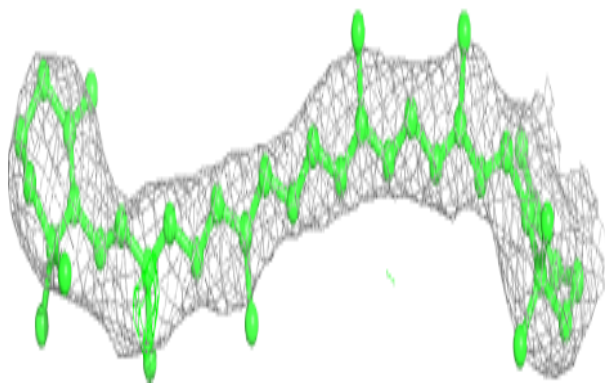
Electron density around CLA B 835:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

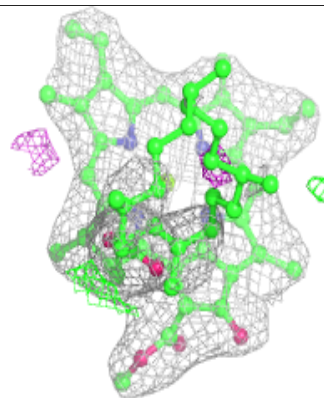
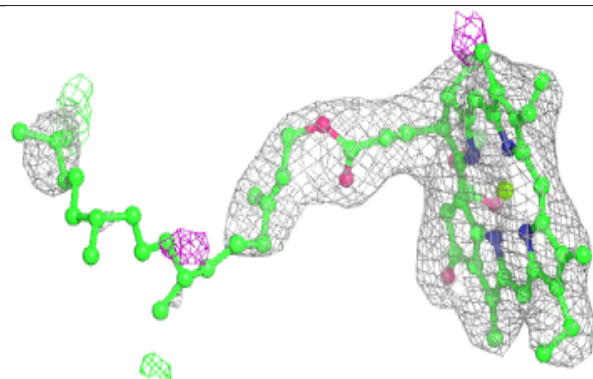
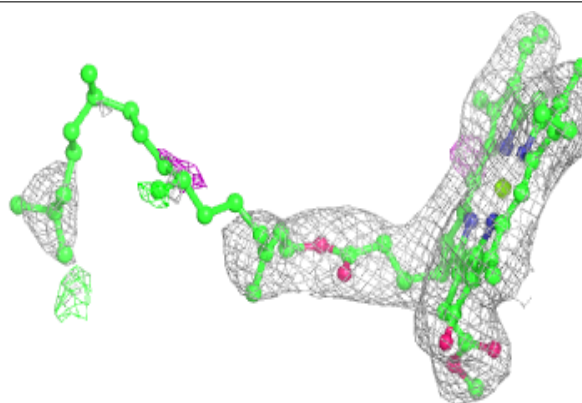


Electron density around BCR 3 318:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

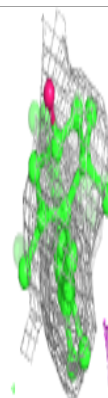
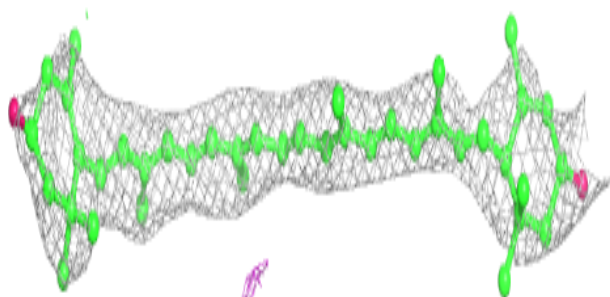
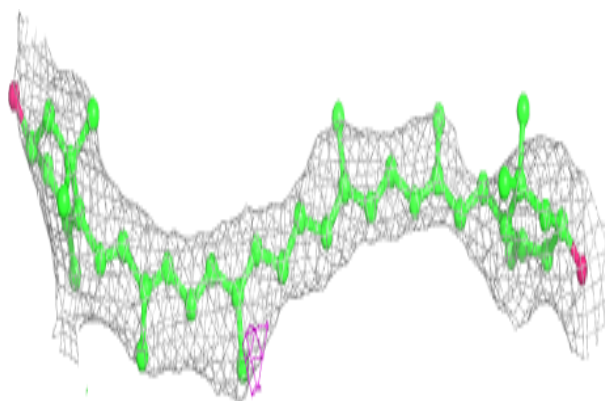
**Electron density around CLA a 840:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

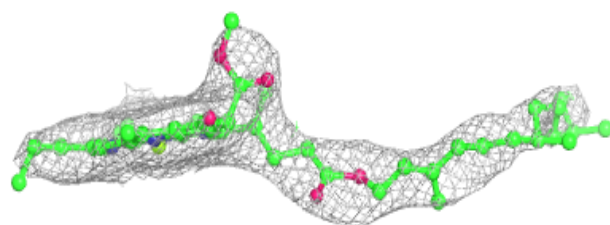
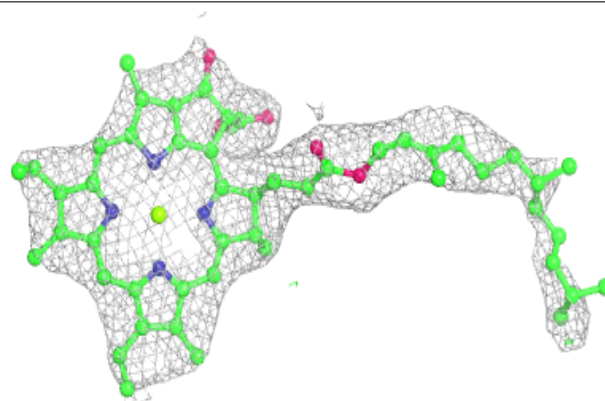


Electron density around LUT 8 314:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

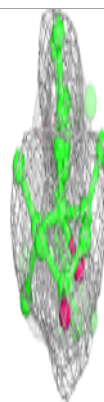
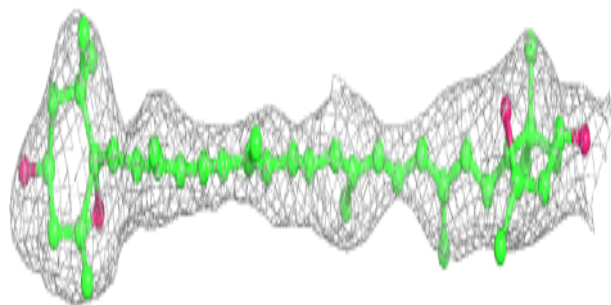
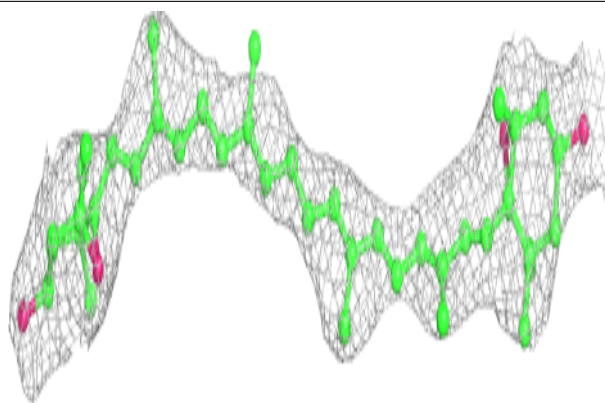
**Electron density around CLA B 836:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



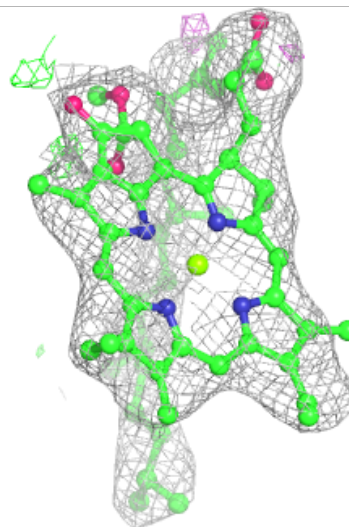
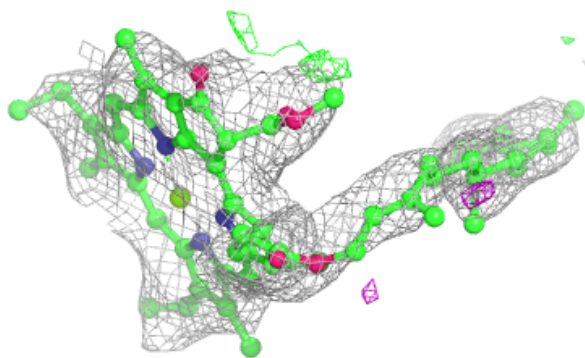
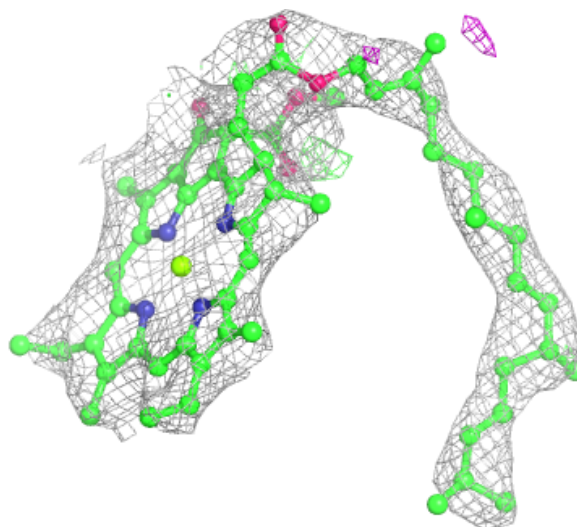
Electron density around XAT 2 616:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



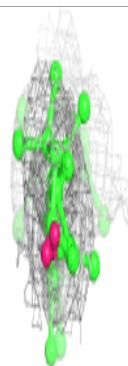
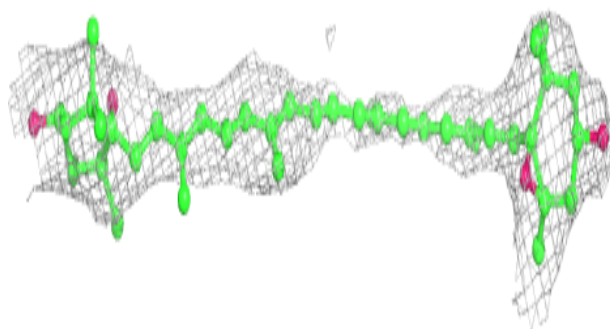
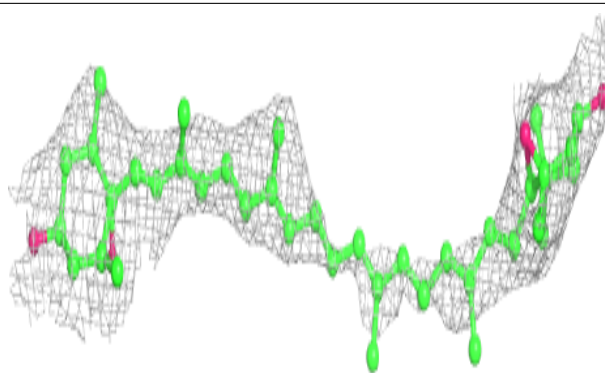
Electron density around CLA B 810:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

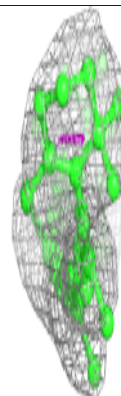
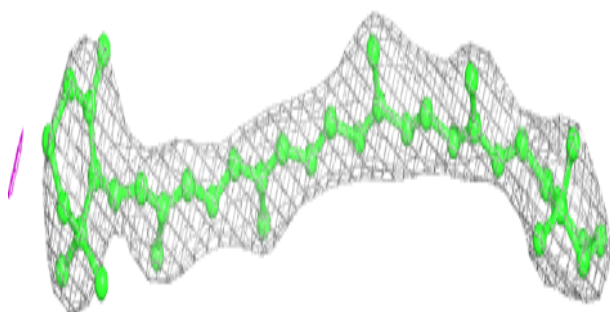
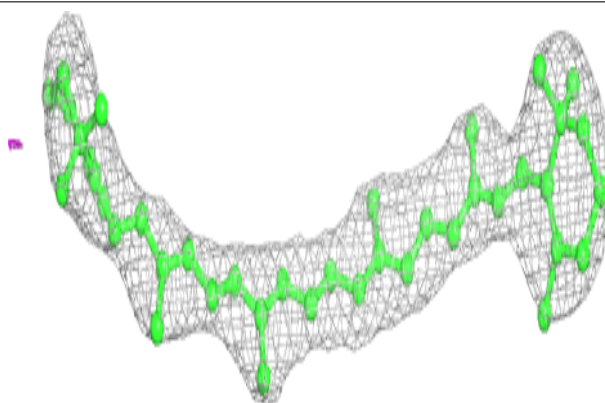


Electron density around XAT 6 318:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

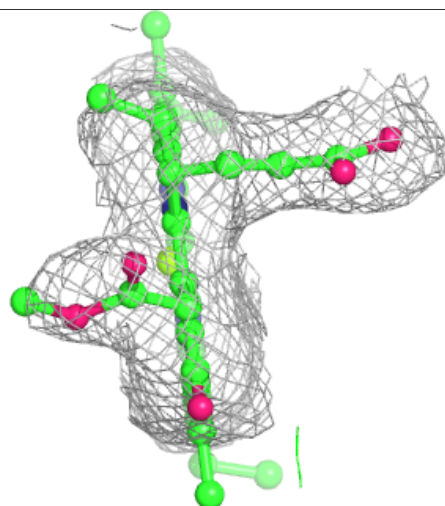
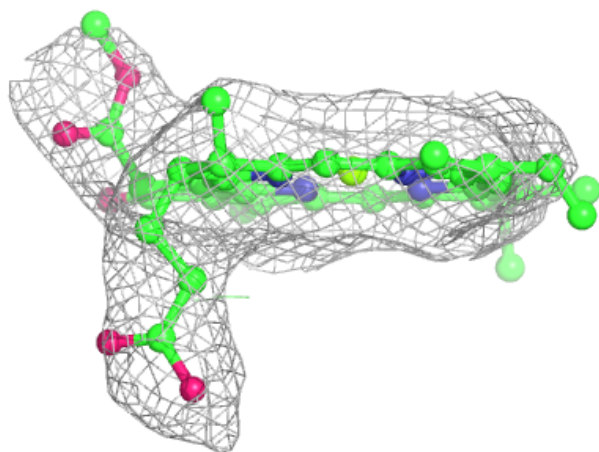
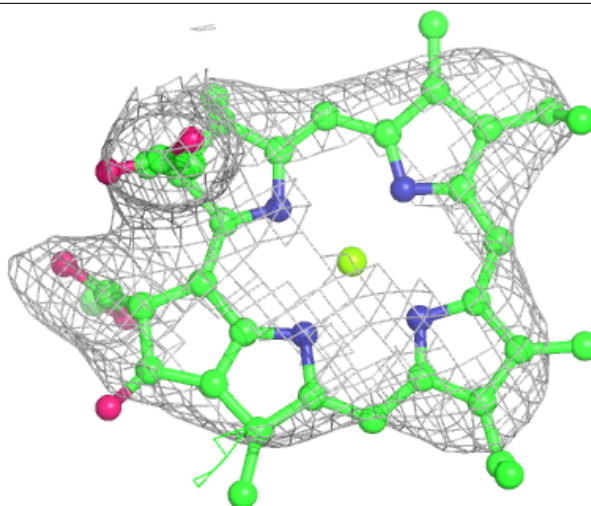
**Electron density around BCR b 801:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



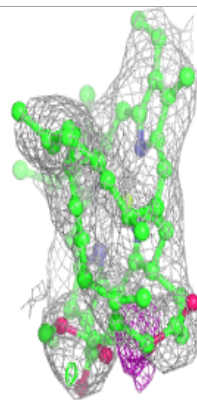
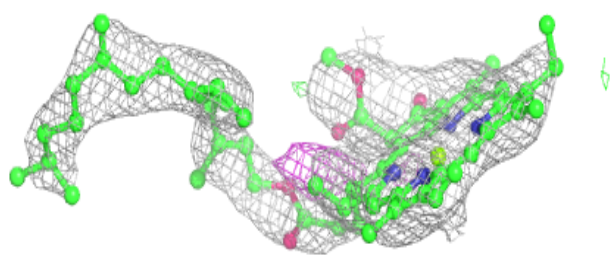
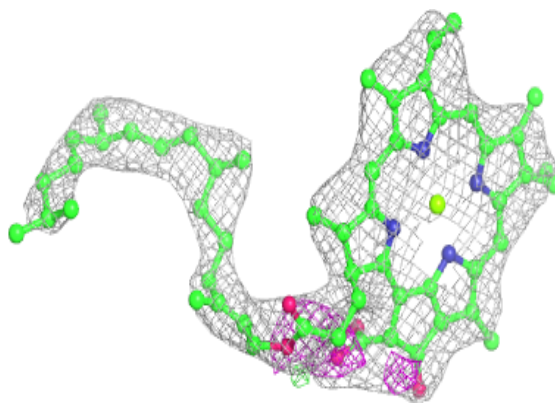
Electron density around CLA 8 303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



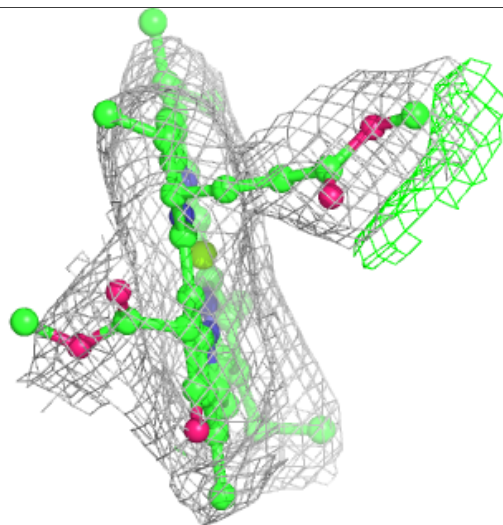
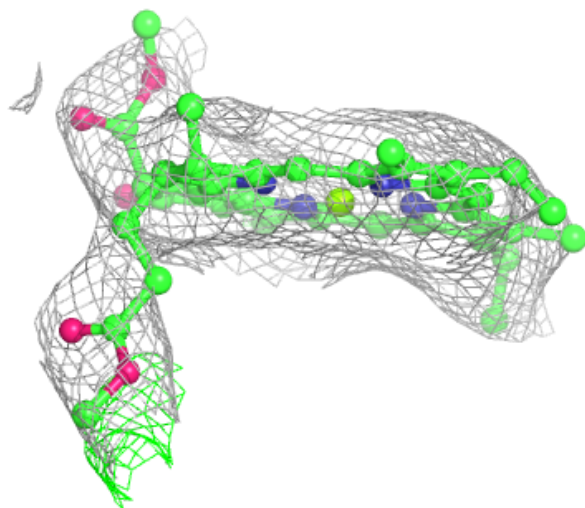
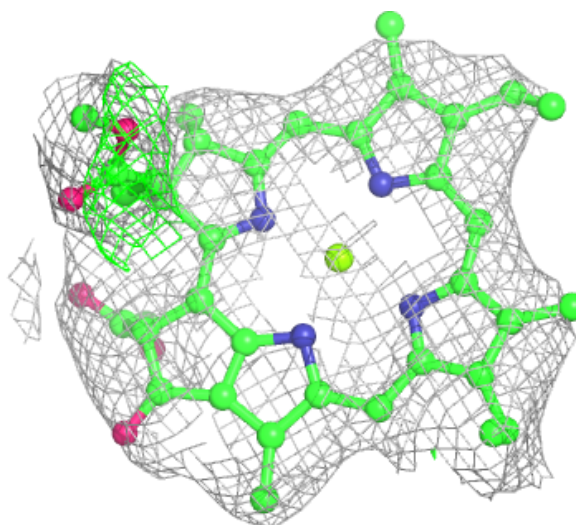
Electron density around CLA A 804:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



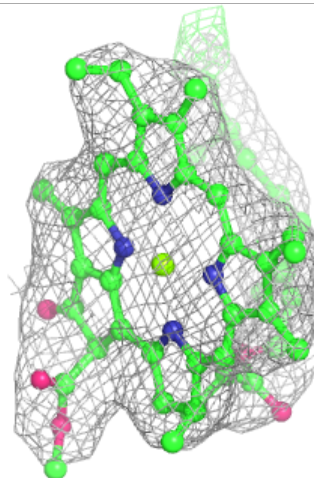
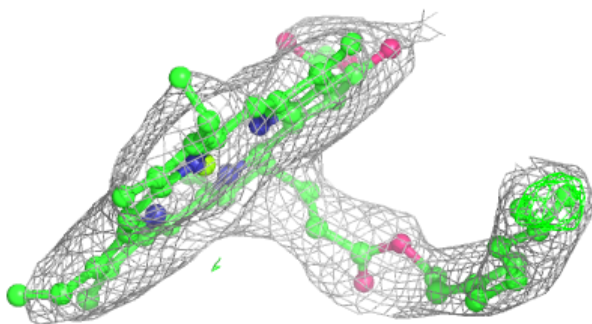
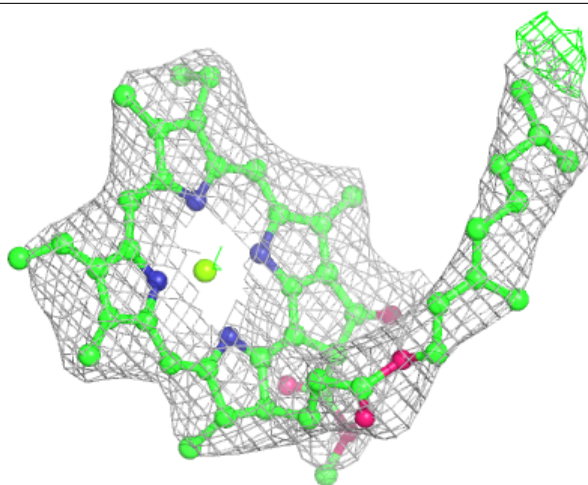
Electron density around CLA b 821:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



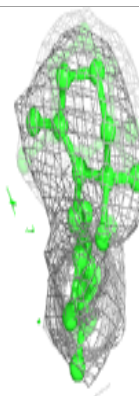
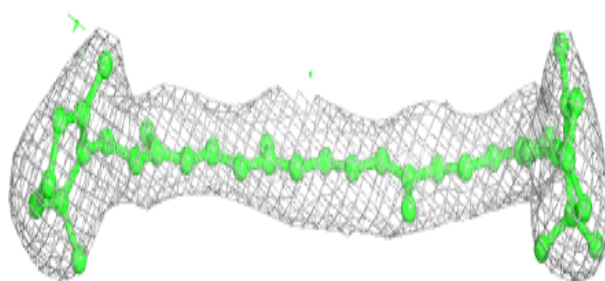
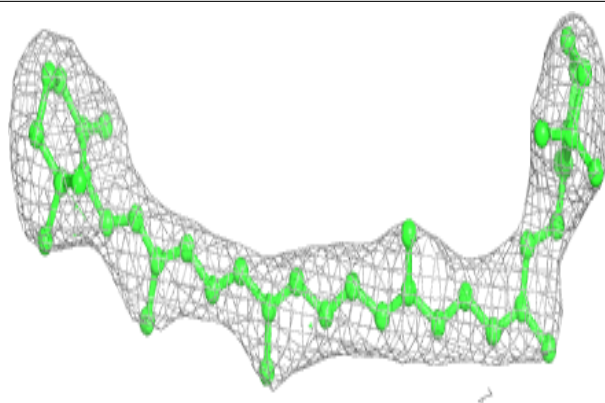
Electron density around CLA b 822:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

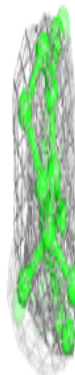
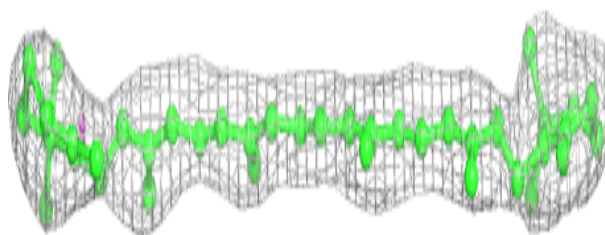
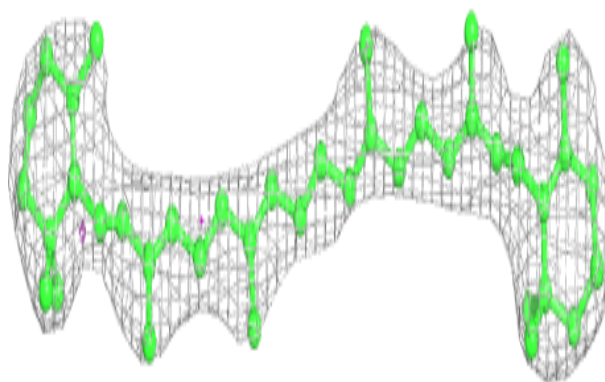


Electron density around BCR 1 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

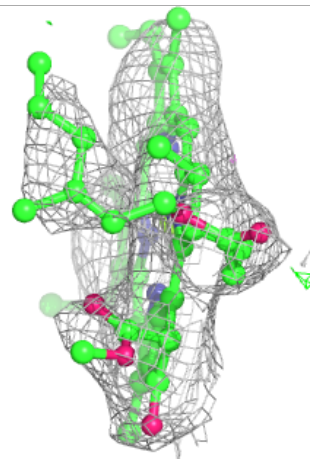
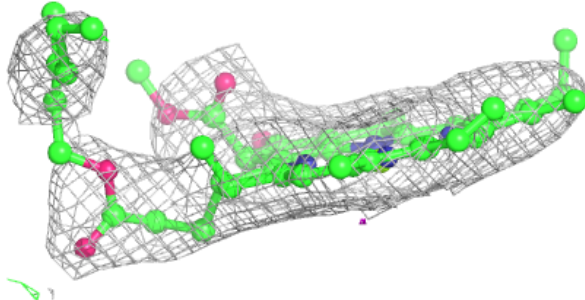
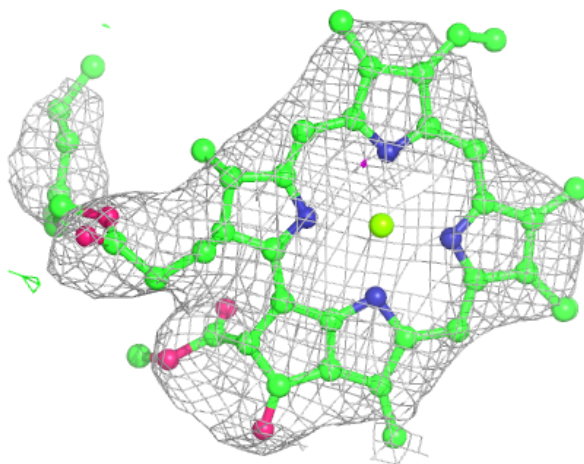
**Electron density around BCR 1 205:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



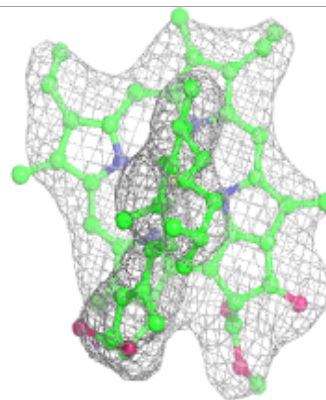
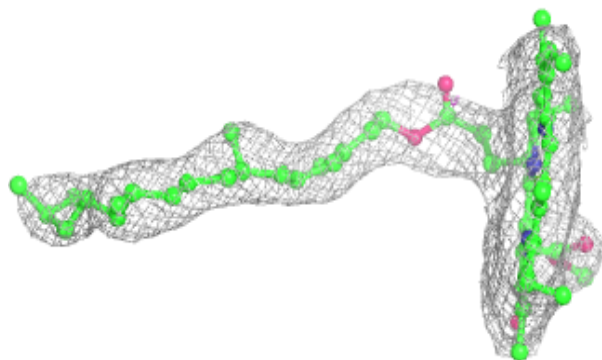
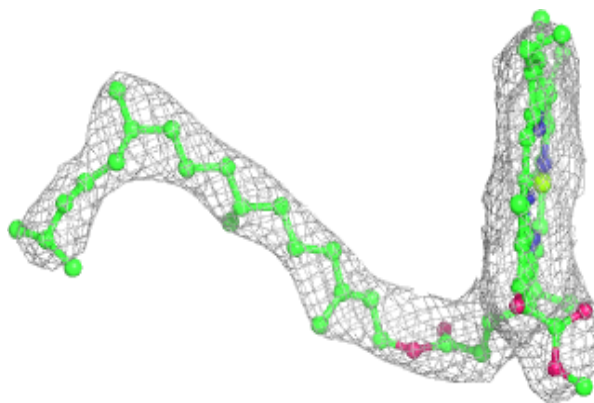
Electron density around CLA 1 312:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



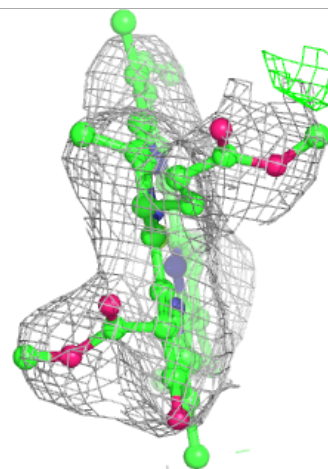
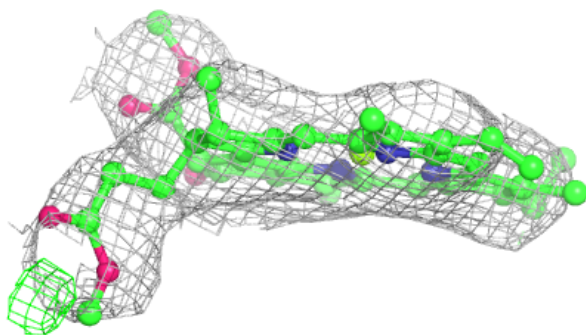
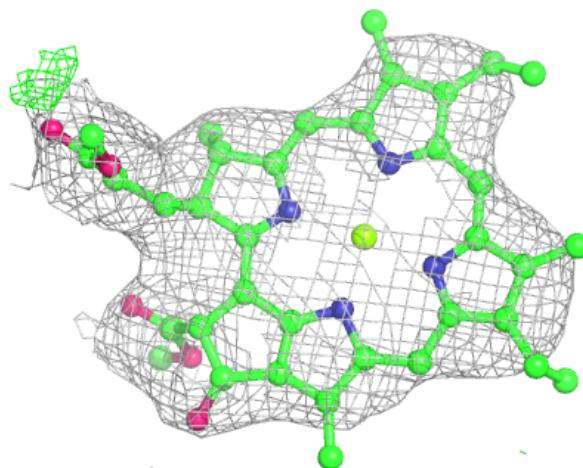
Electron density around CLA B 840:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



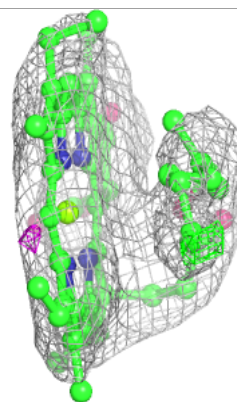
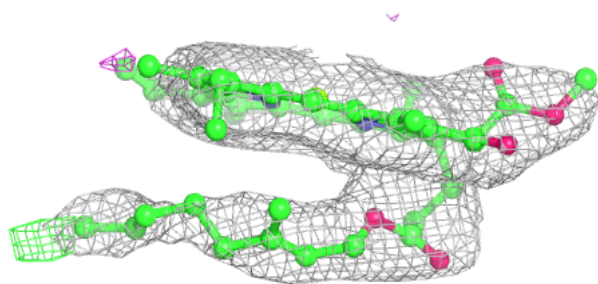
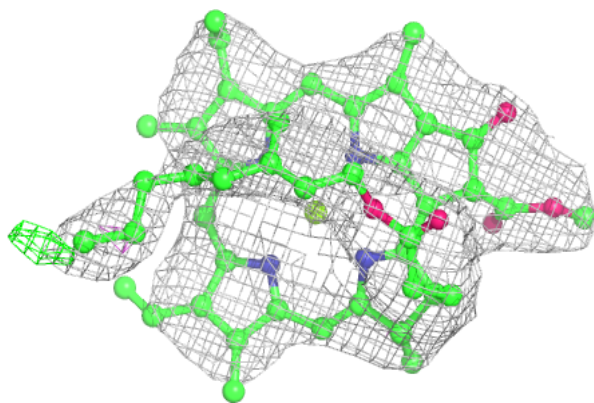
Electron density around CLA 9 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

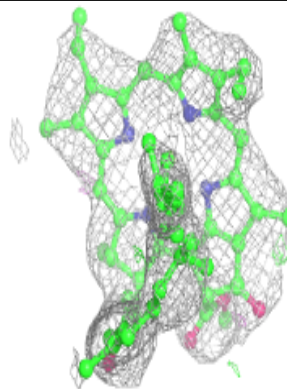
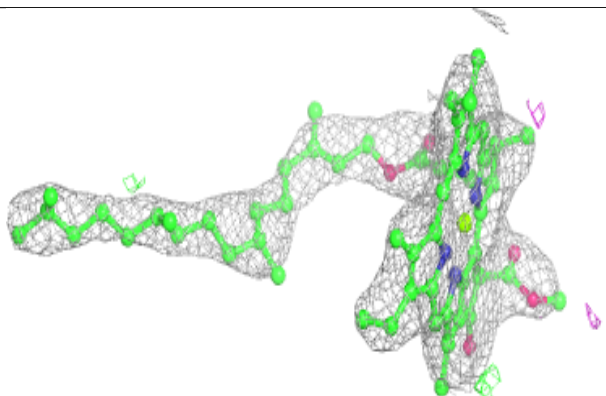
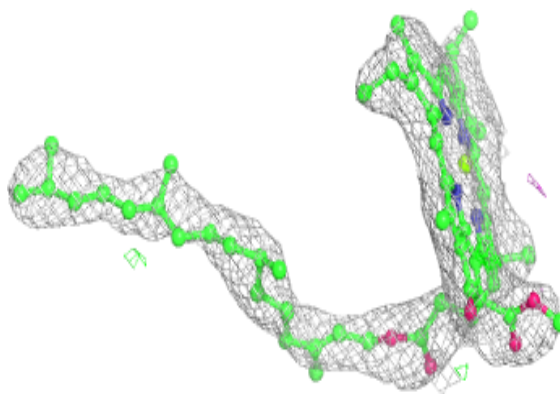


Electron density around CLA A 813:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

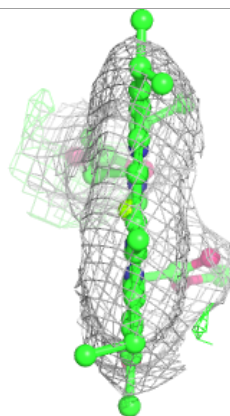
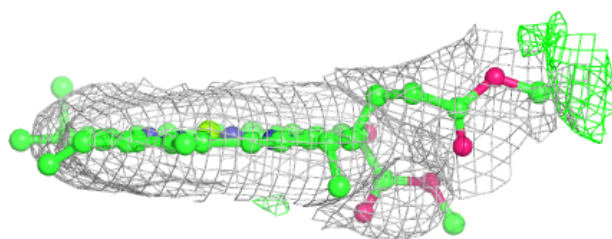
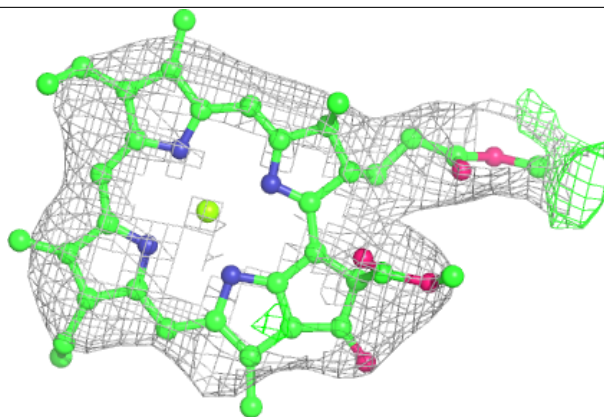
**Electron density around CLA b 829:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

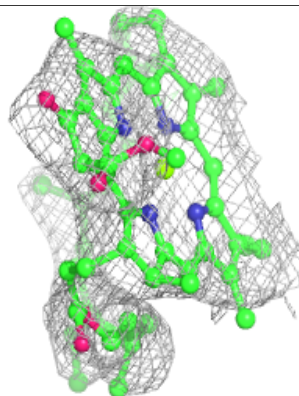
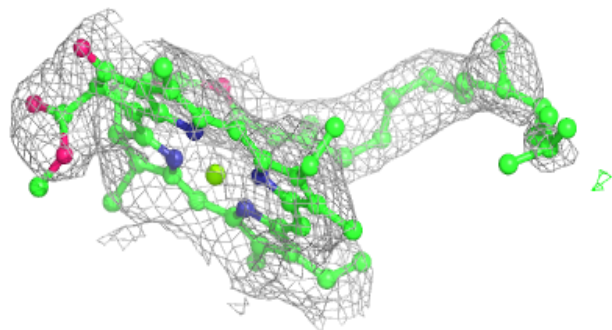
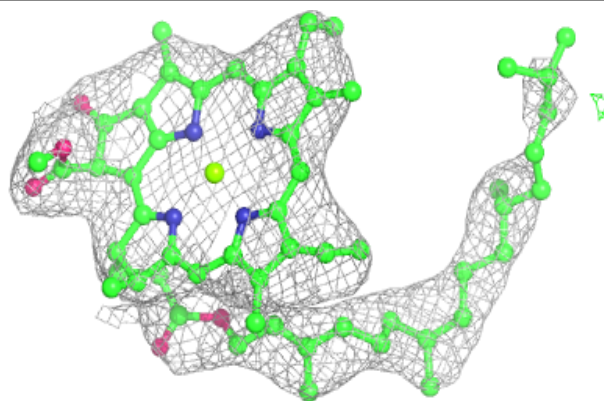


Electron density around CLA 1 315:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

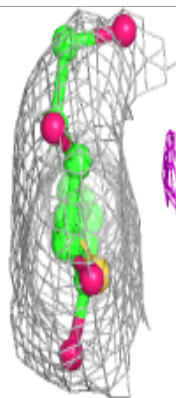
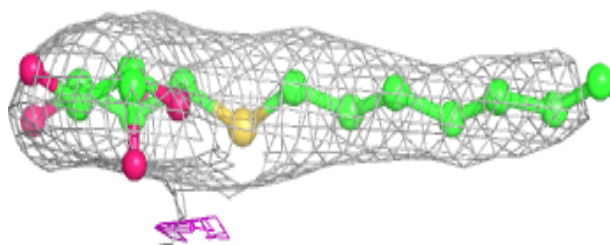
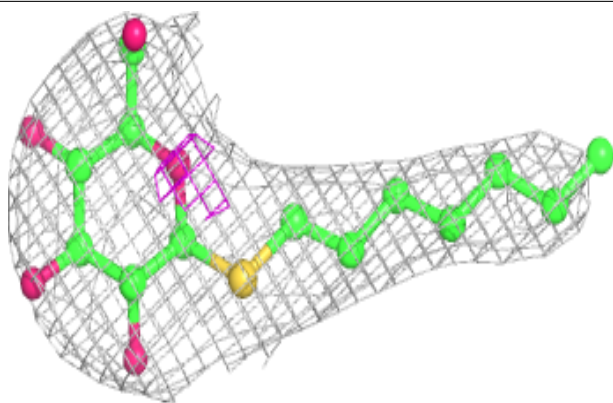
**Electron density around CLA 2 602:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



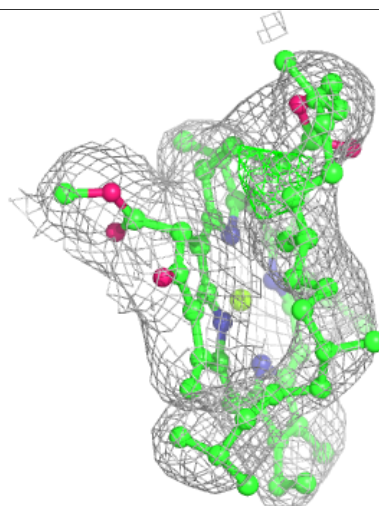
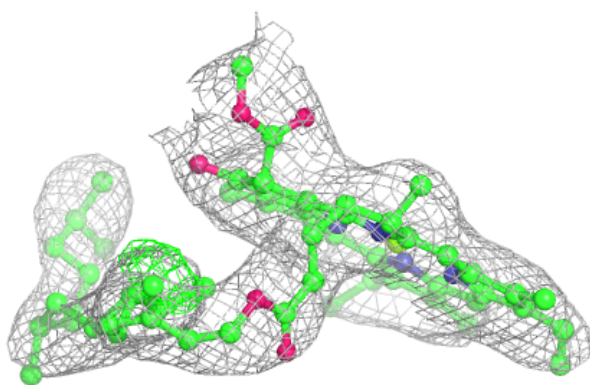
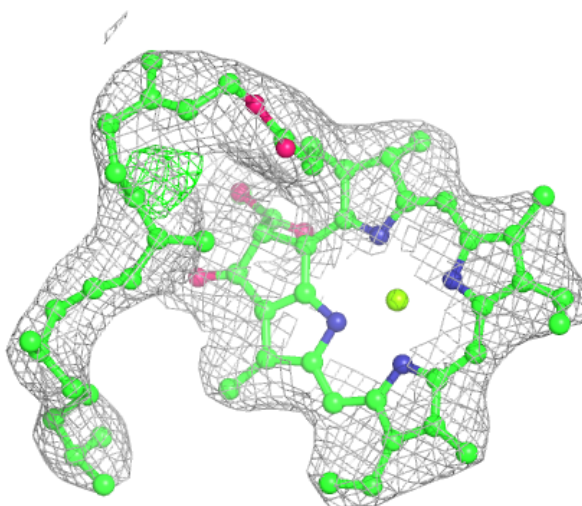
Electron density around HTG a 857:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



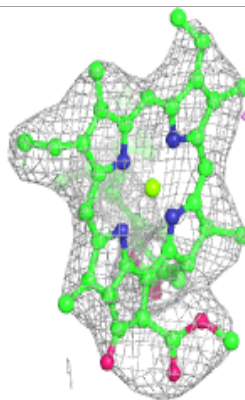
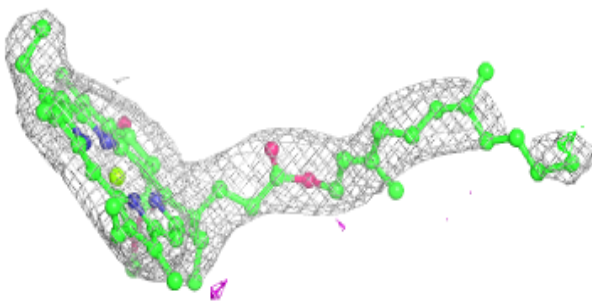
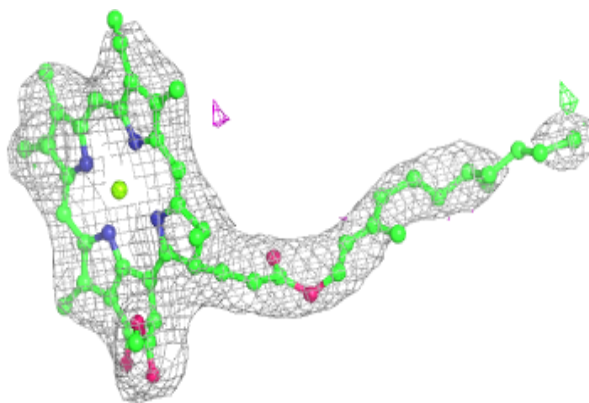
Electron density around CLA b 832:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



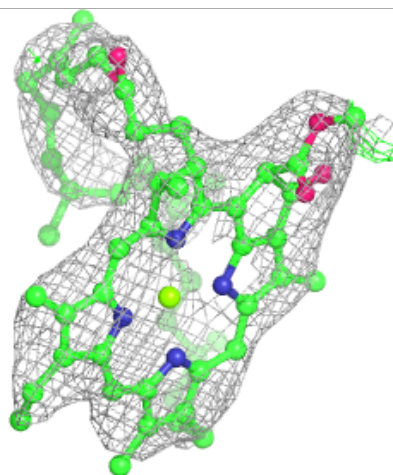
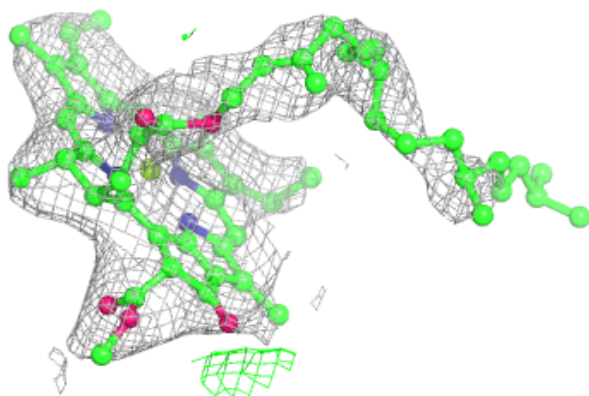
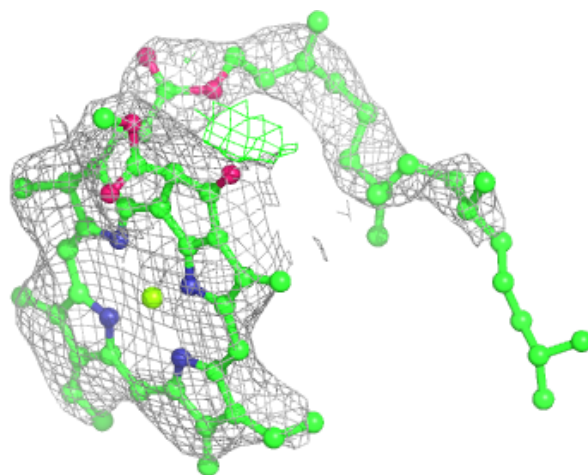
Electron density around CLA b 833:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



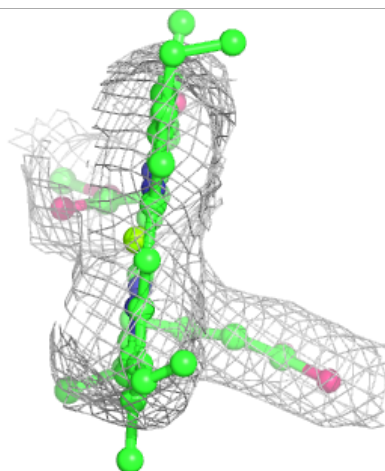
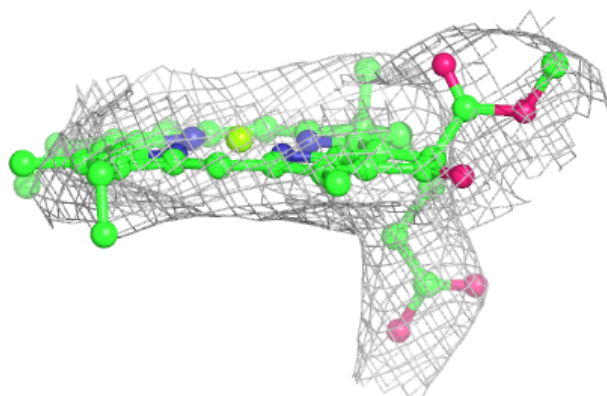
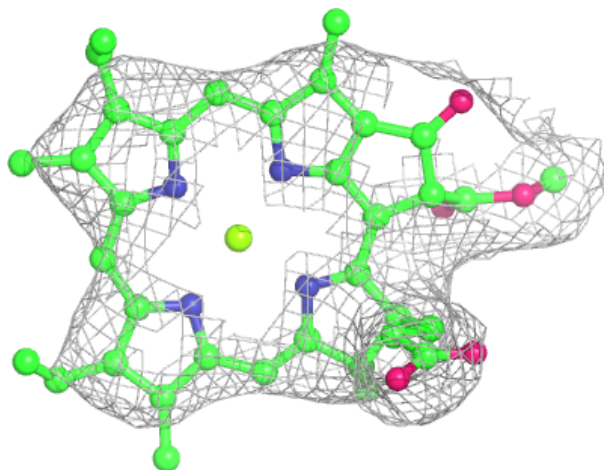
Electron density around CLA b 834:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



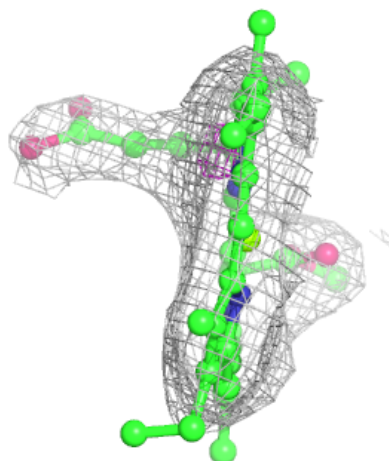
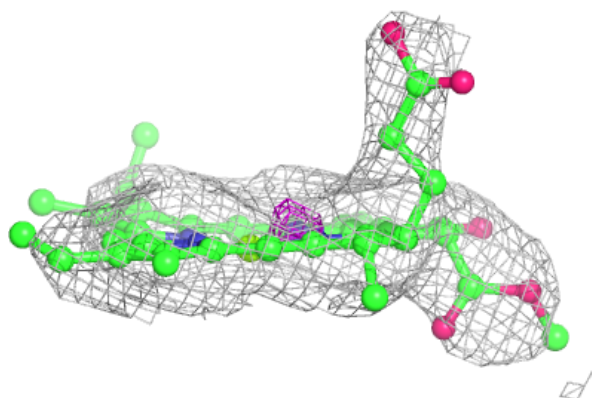
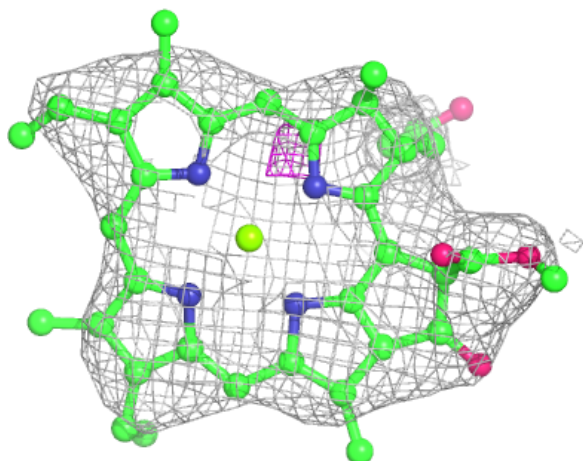
Electron density around CLA b 835:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



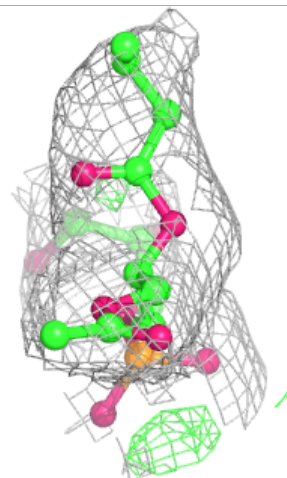
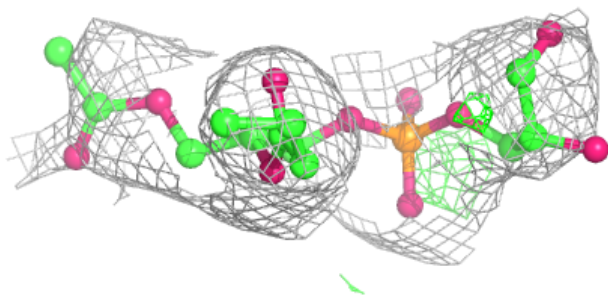
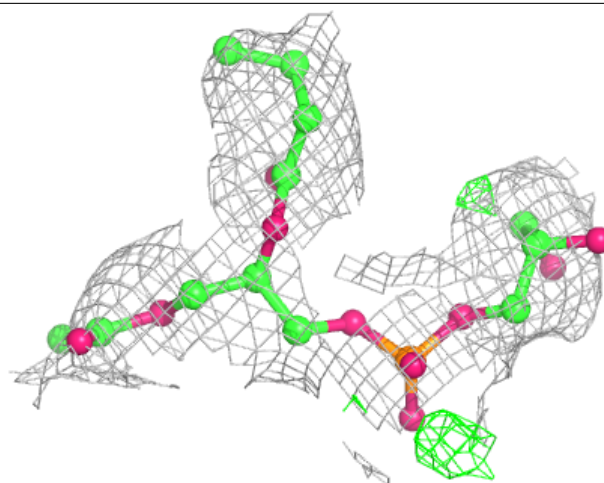
Electron density around CLA G 101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



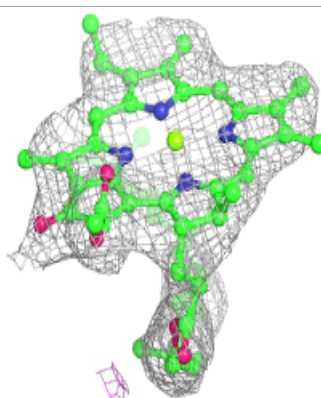
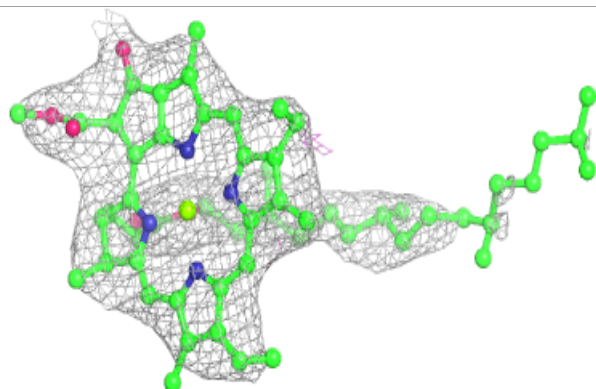
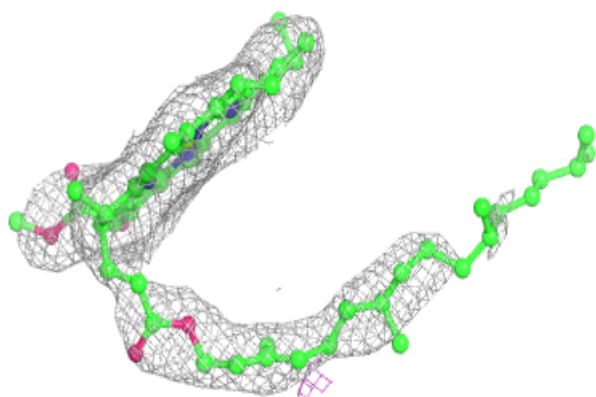
Electron density around LHG 6 301:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



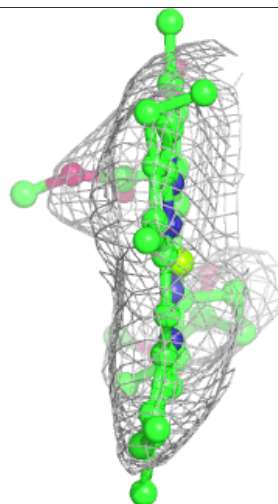
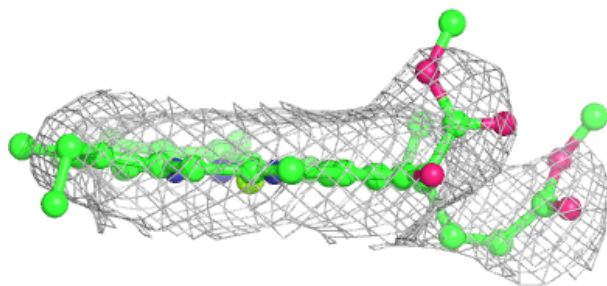
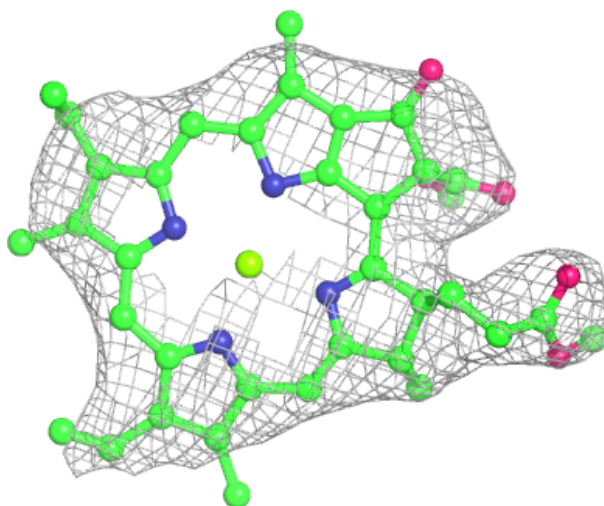
Electron density around CLA A 833:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



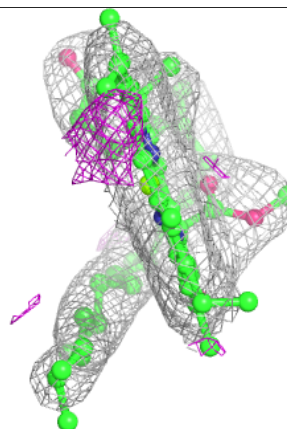
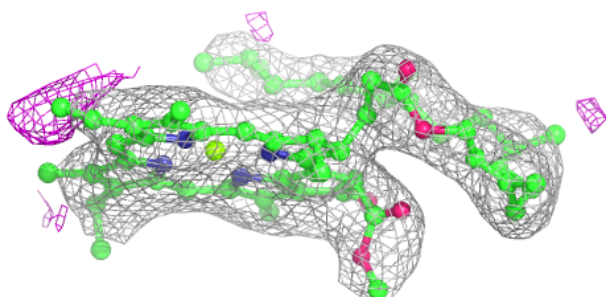
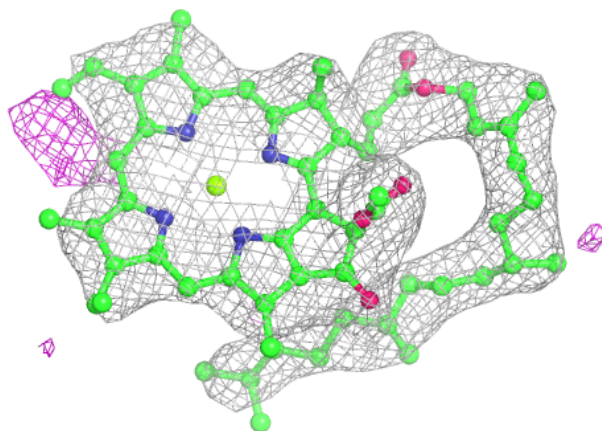
Electron density around CLA G 104:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

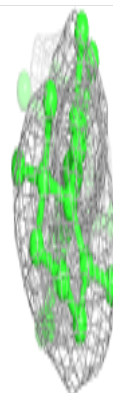
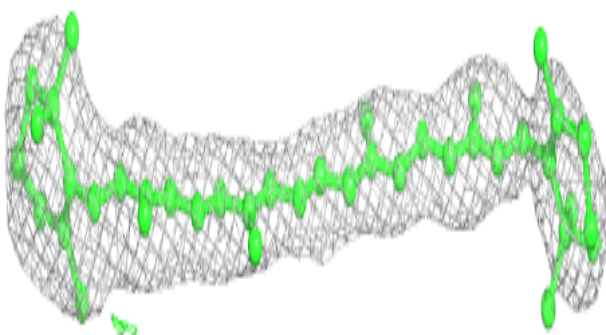
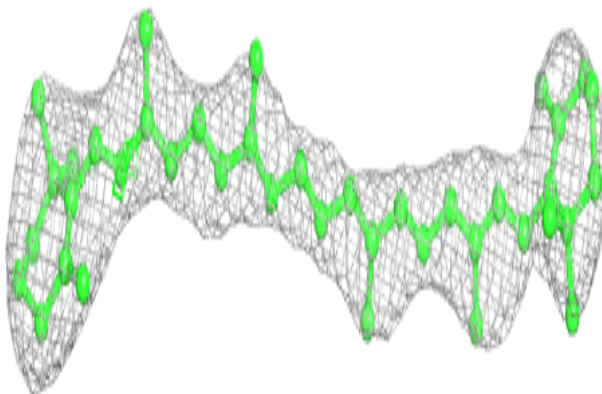


Electron density around CLA B 805:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

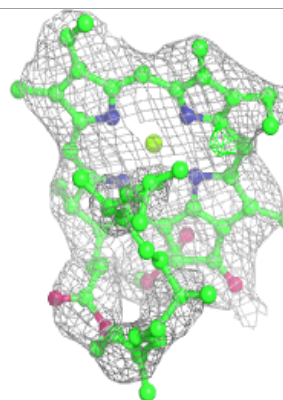
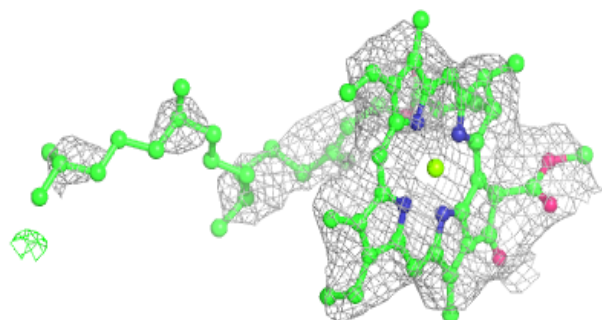
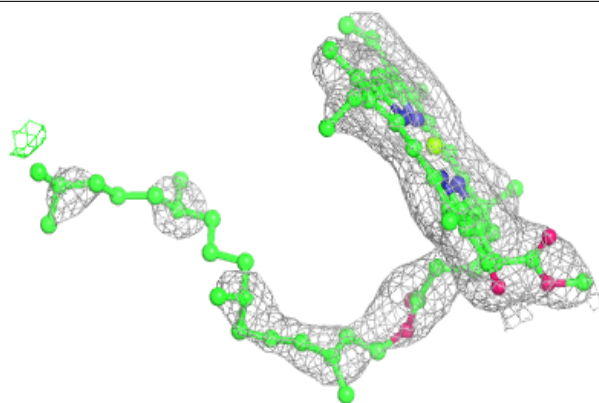
**Electron density around BCR A 849:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

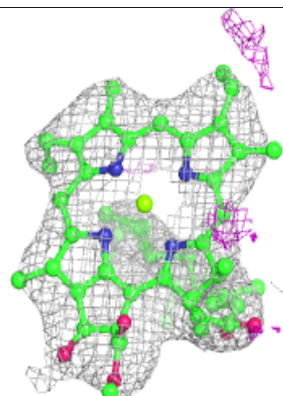
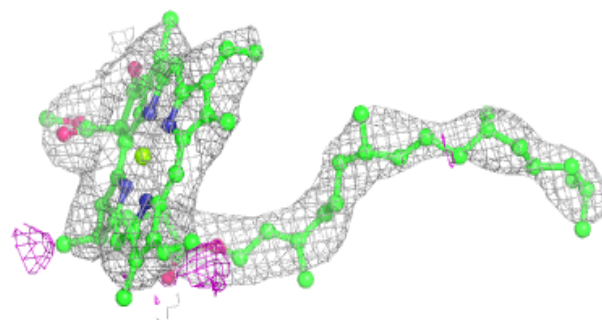
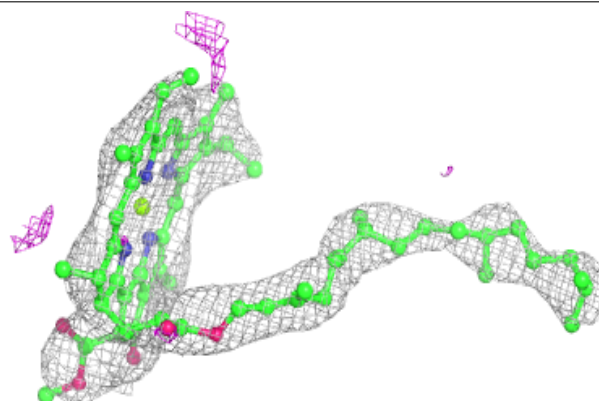


Electron density around CLA a 811:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

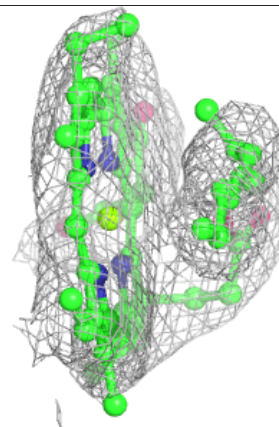
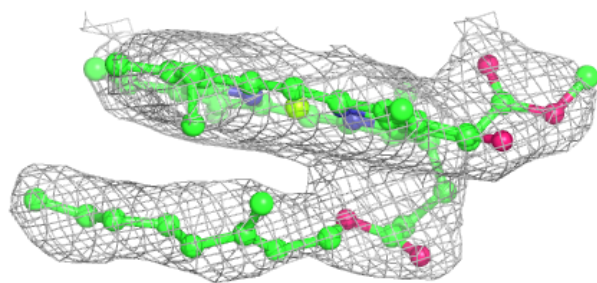
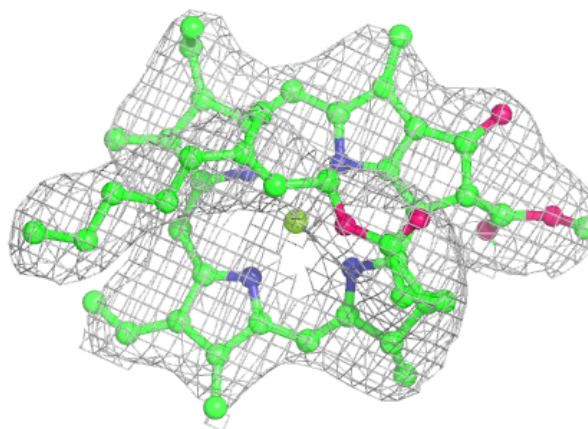
**Electron density around CLA a 812:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



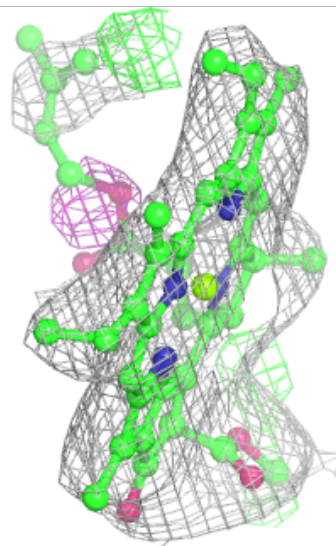
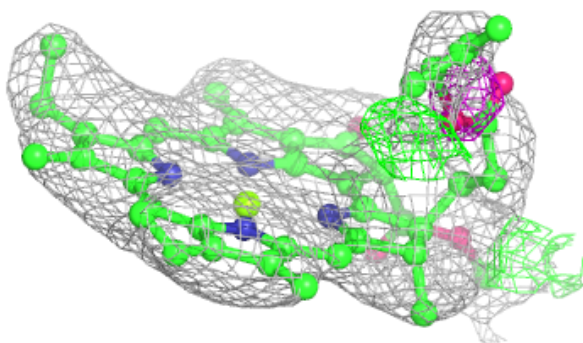
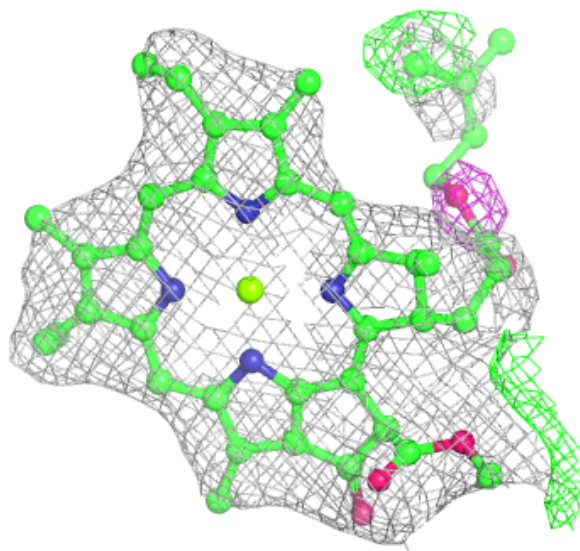
Electron density around CLA a 813:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



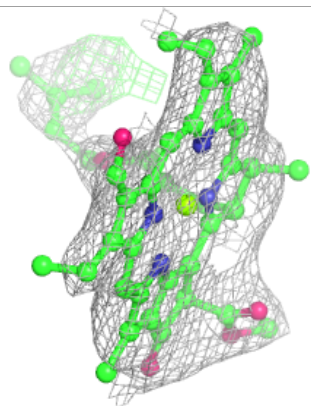
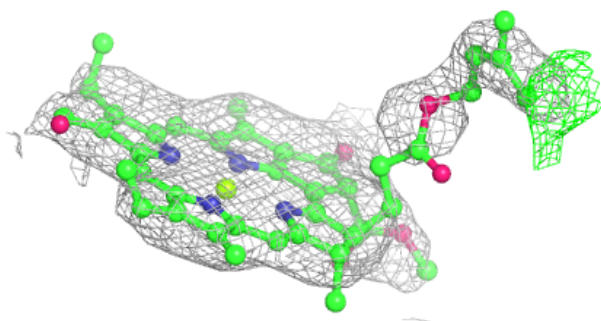
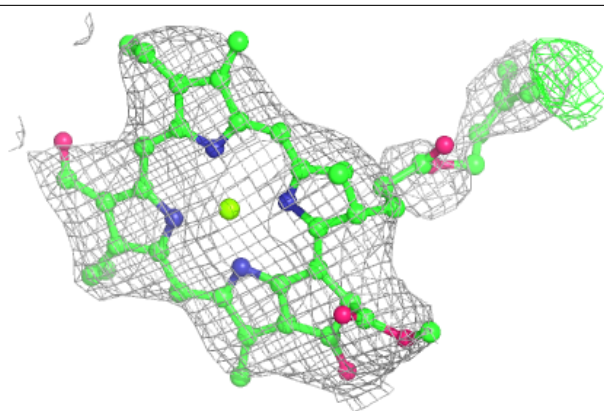
Electron density around CLA a 816:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



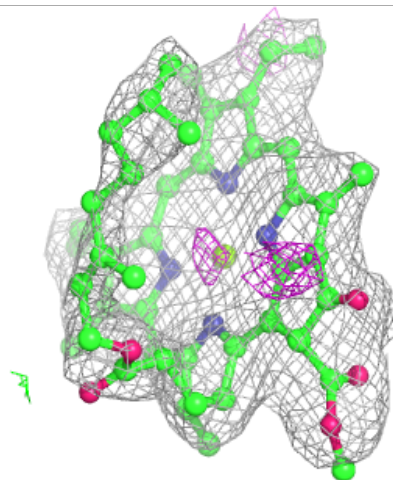
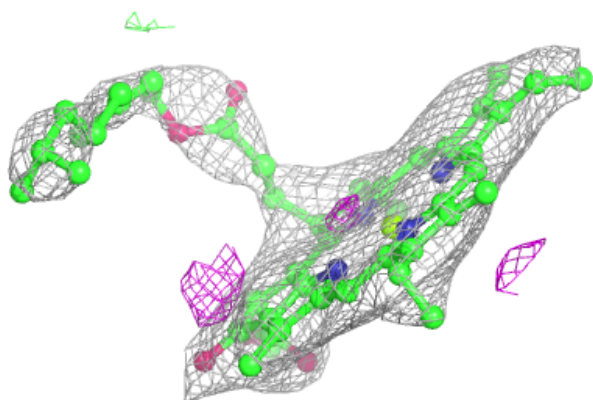
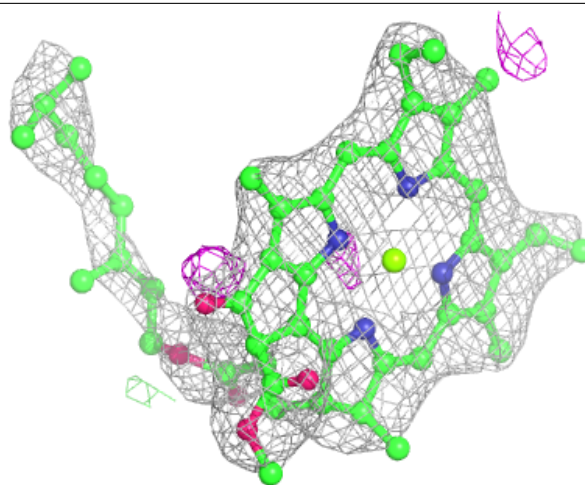
Electron density around CHL 2 607:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



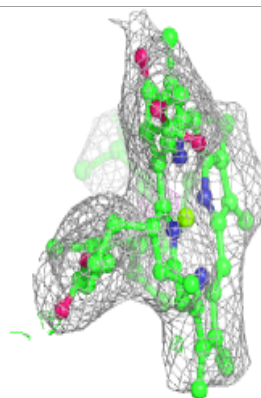
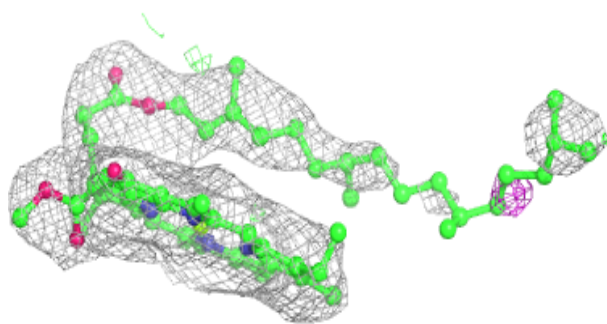
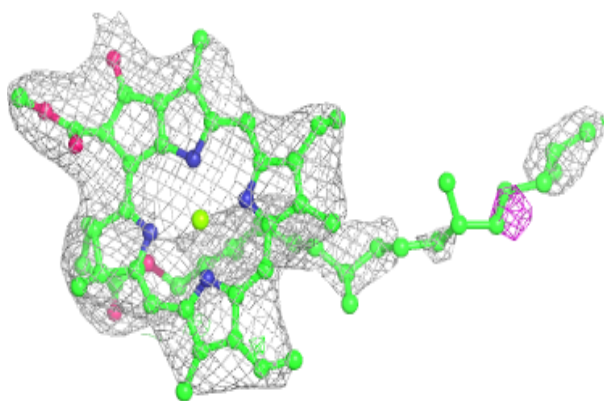
Electron density around CLA B 822:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

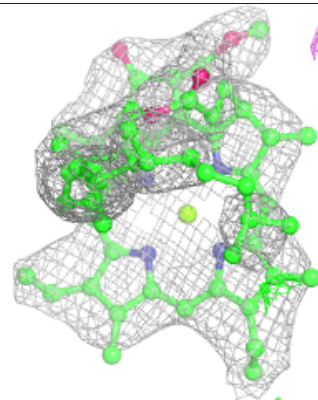
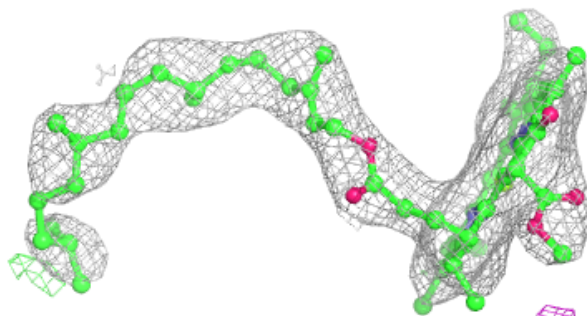
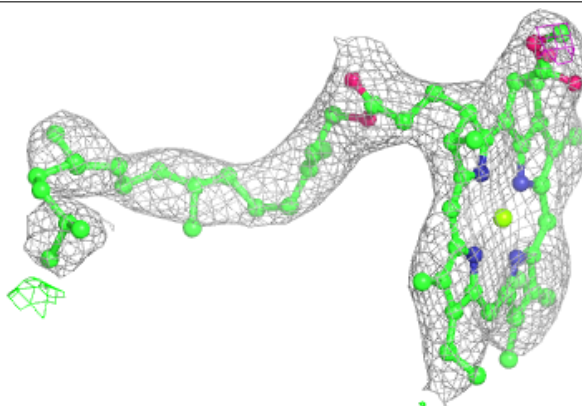


Electron density around CLA a 819:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

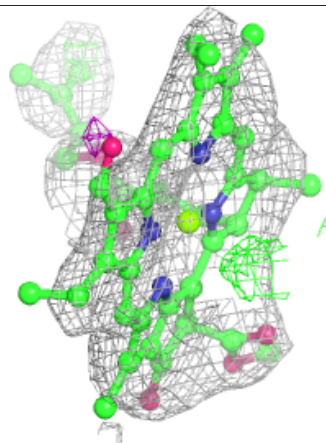
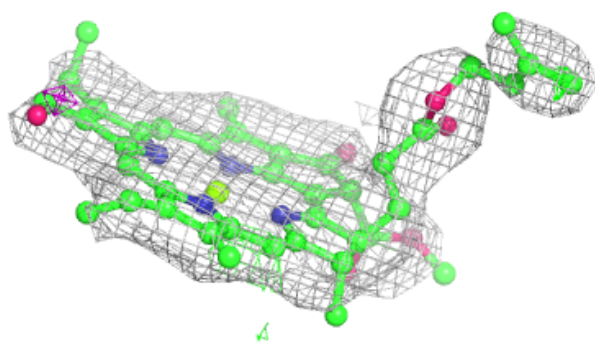
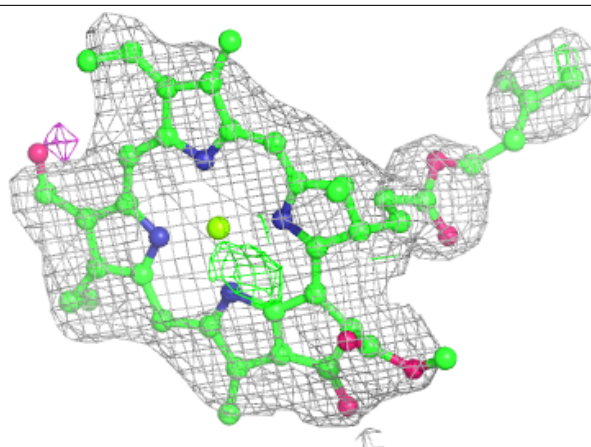
**Electron density around CLA 1 203:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



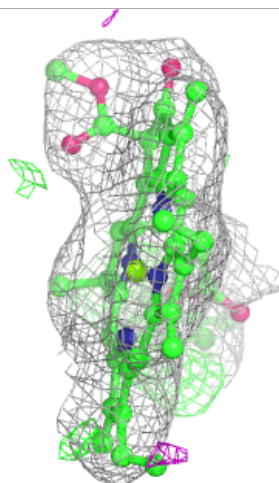
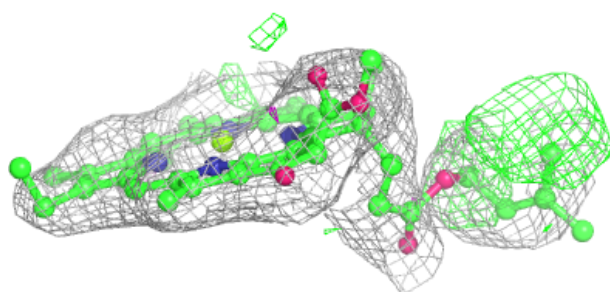
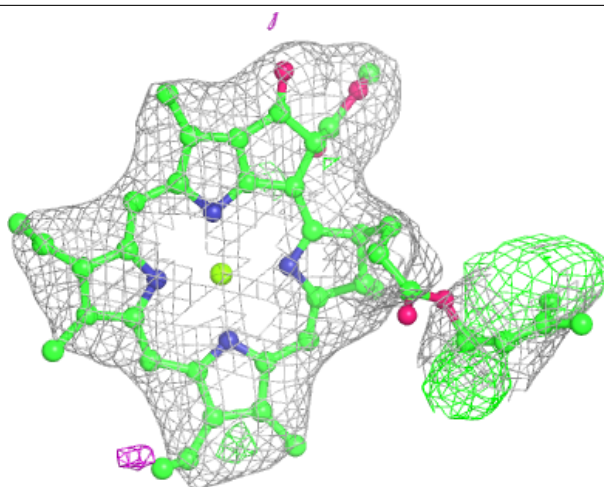
Electron density around CHL 4 607:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



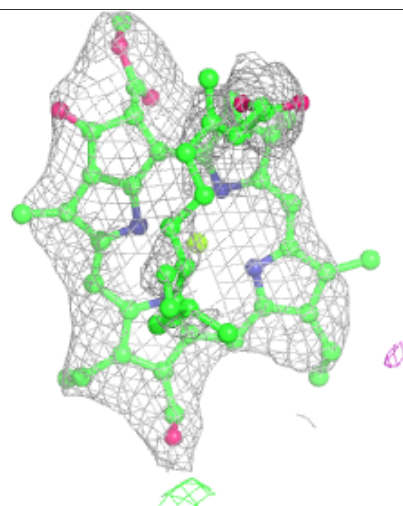
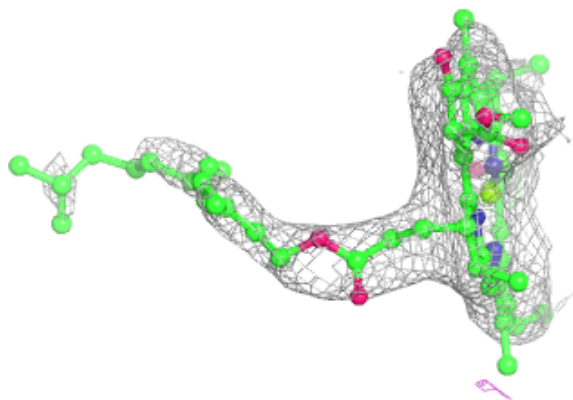
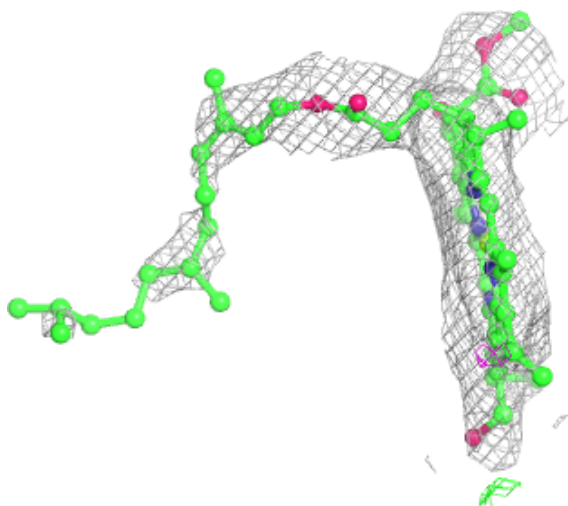
Electron density around CLA 1 204:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



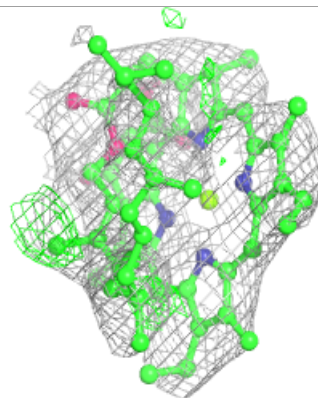
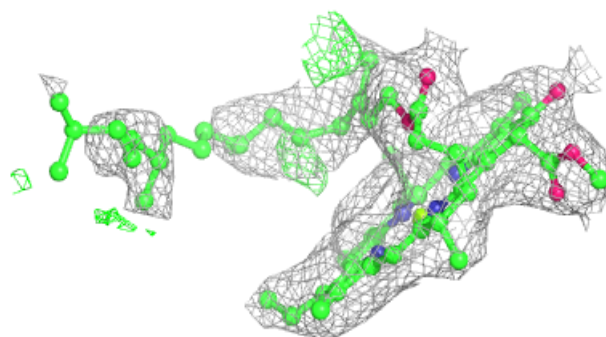
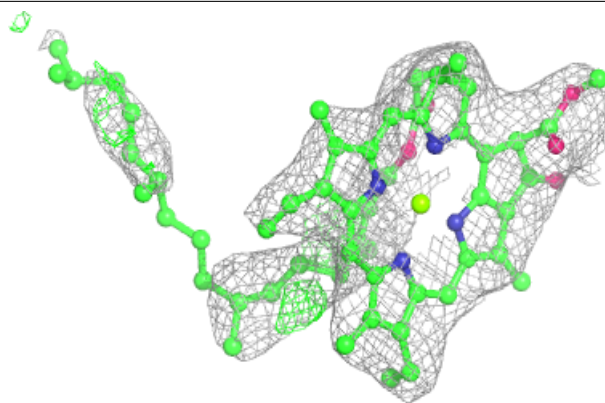
Electron density around CHL 6 303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



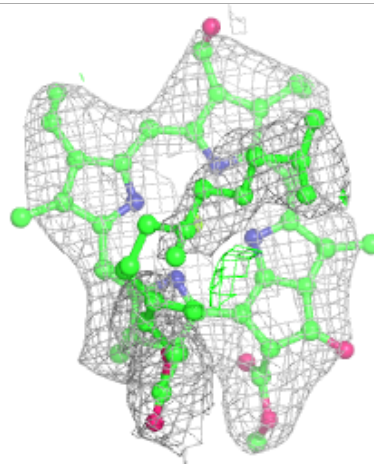
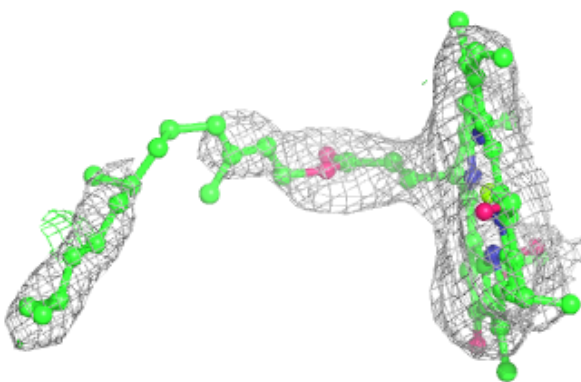
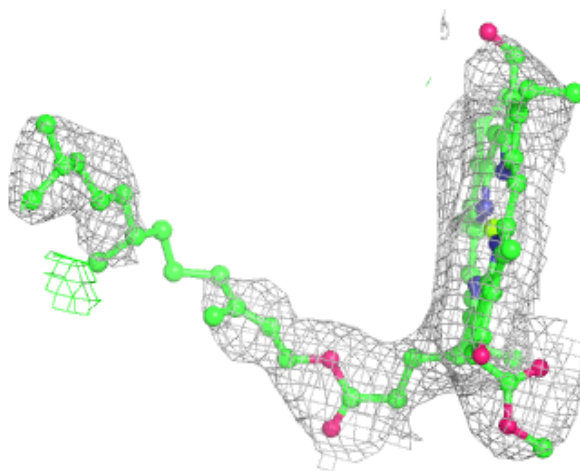
Electron density around CLA B 807:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



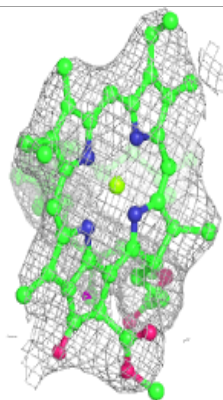
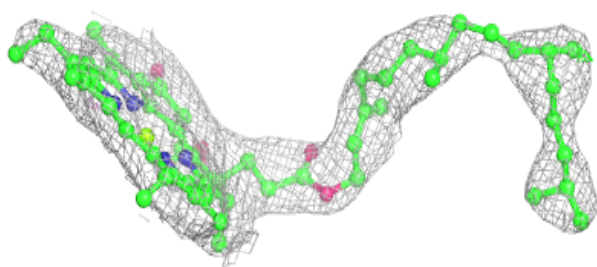
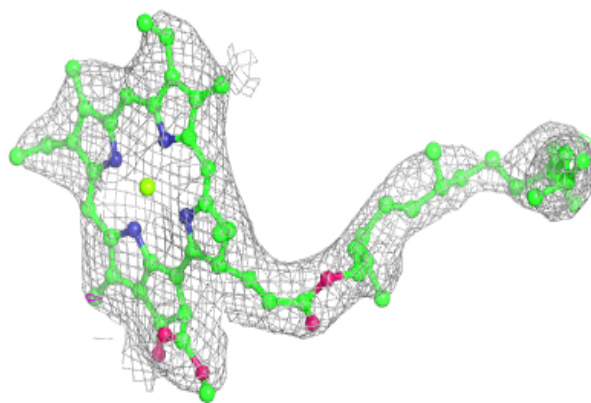
Electron density around CHL 7 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

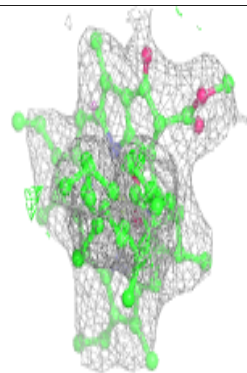
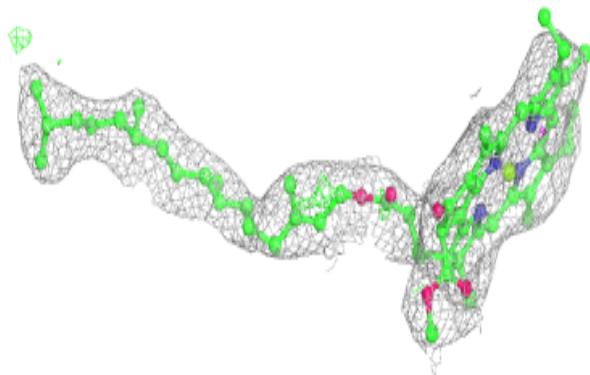
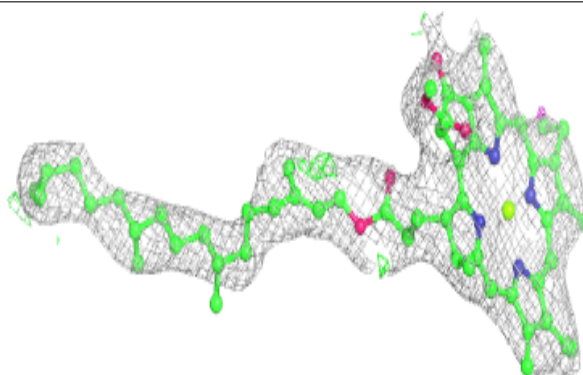


Electron density around CLA B 809:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

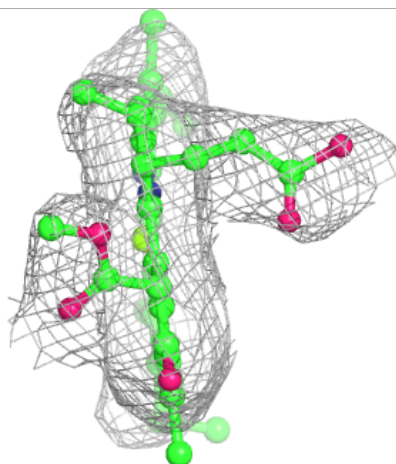
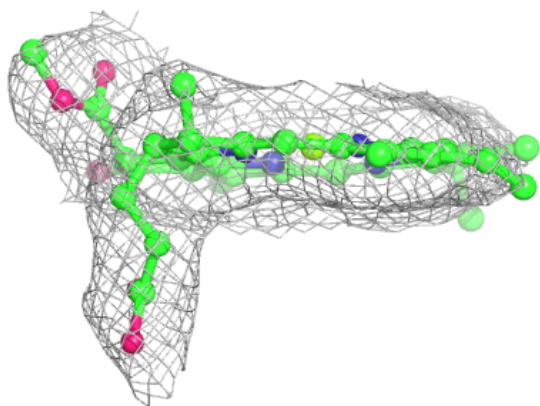
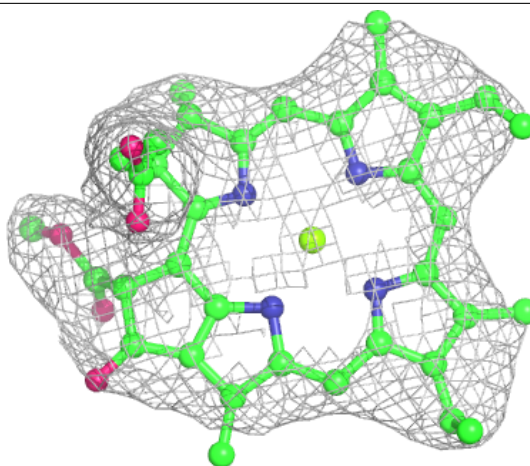
**Electron density around CLA A 810:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



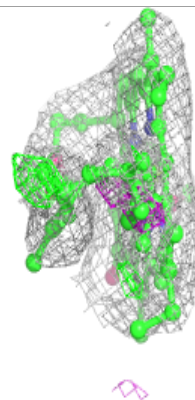
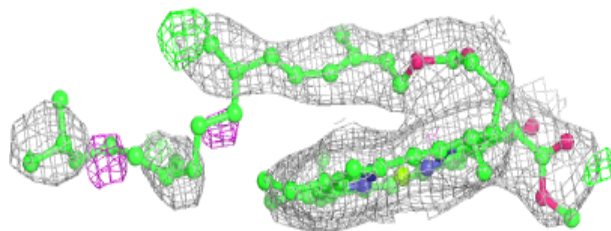
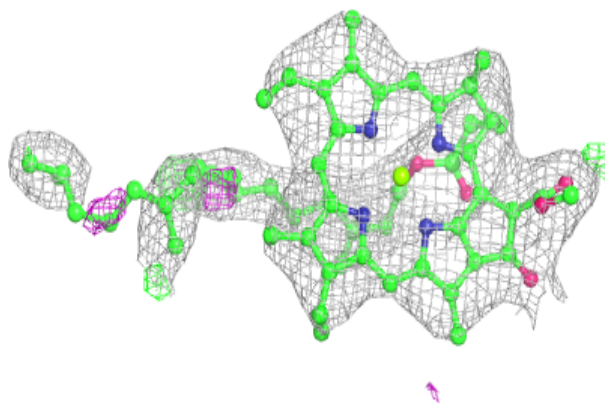
Electron density around CLA a 837:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



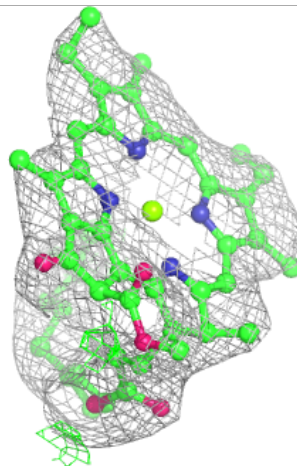
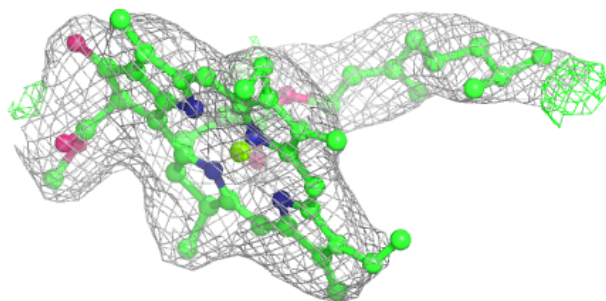
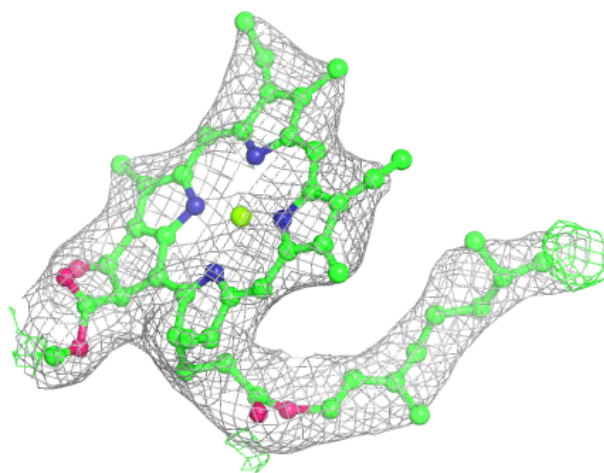
Electron density around CLA a 839:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



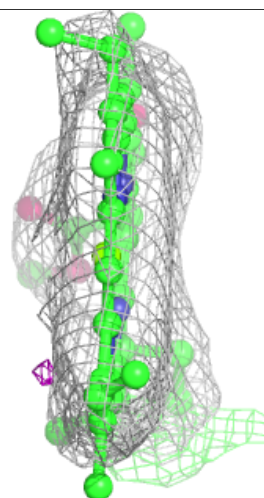
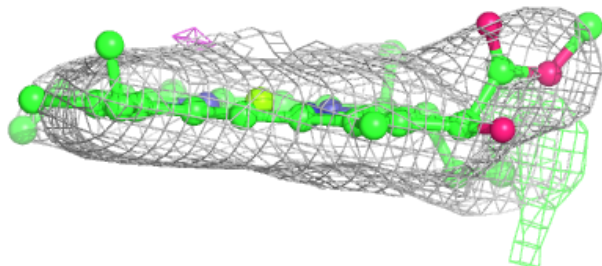
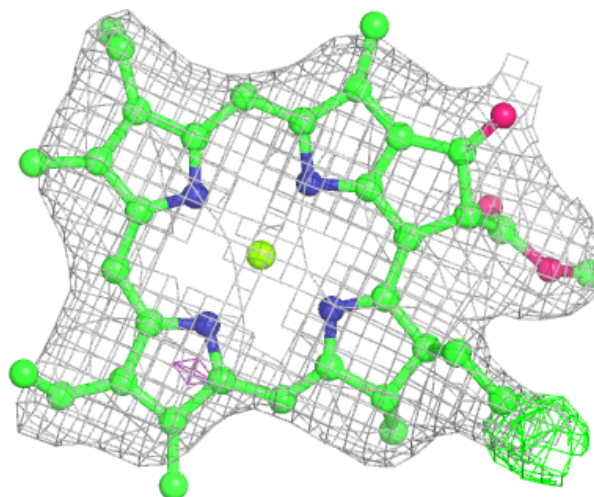
Electron density around CLA A 825:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



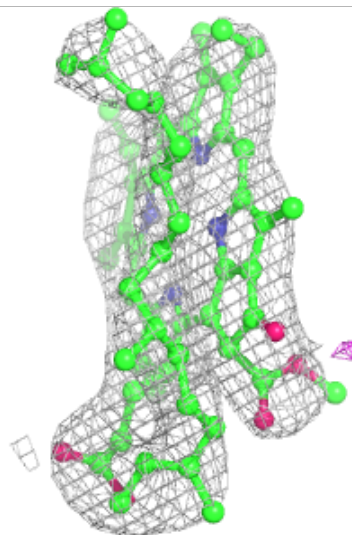
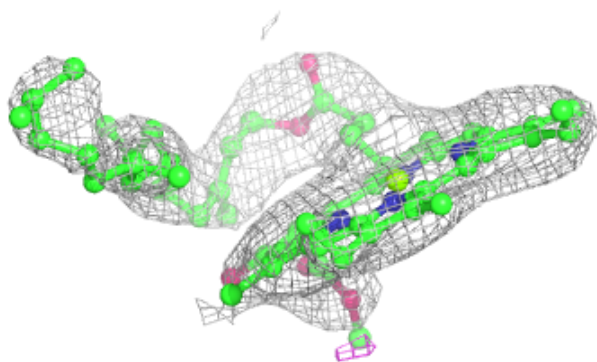
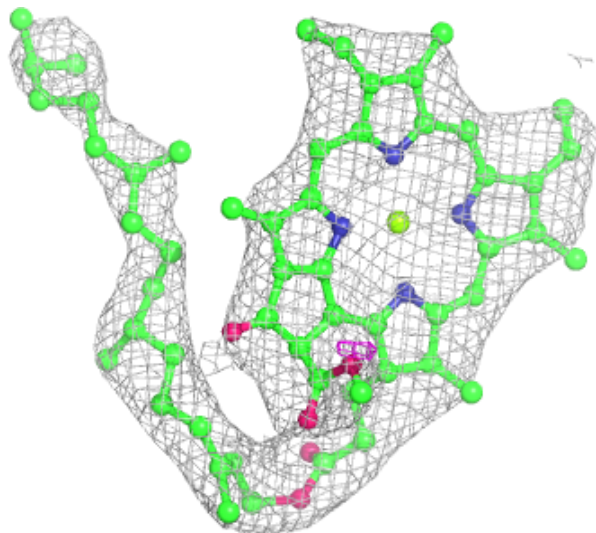
Electron density around CLA 3 305:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



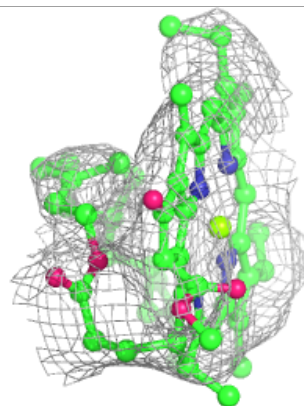
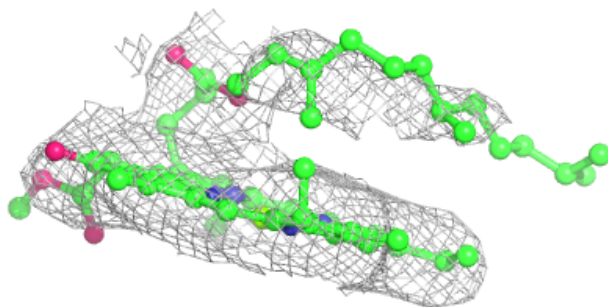
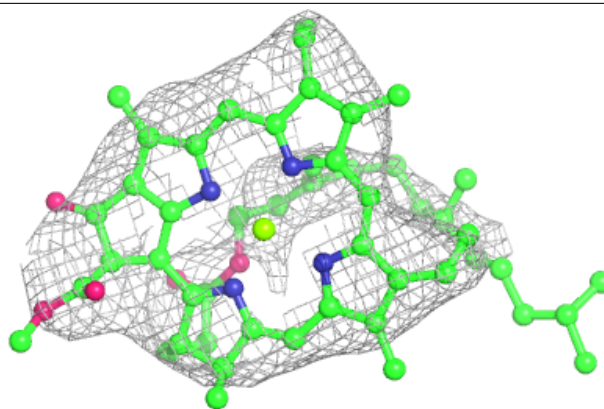
Electron density around CLA A 826:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



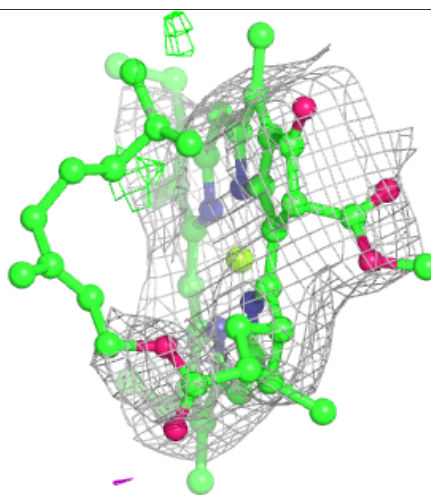
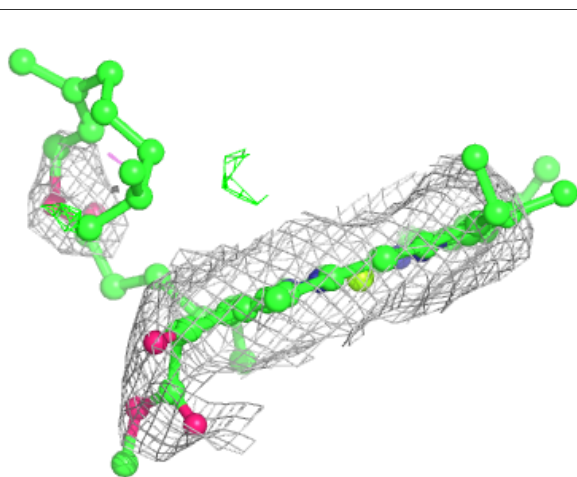
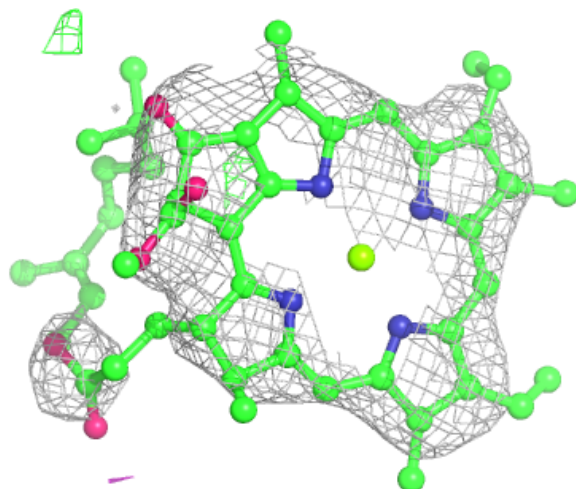
Electron density around CLA 6 314:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



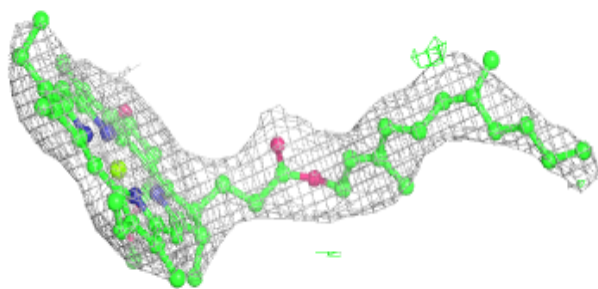
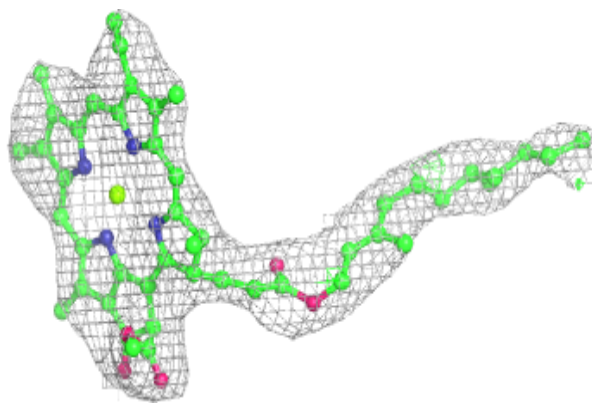
Electron density around CLA 6 315:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



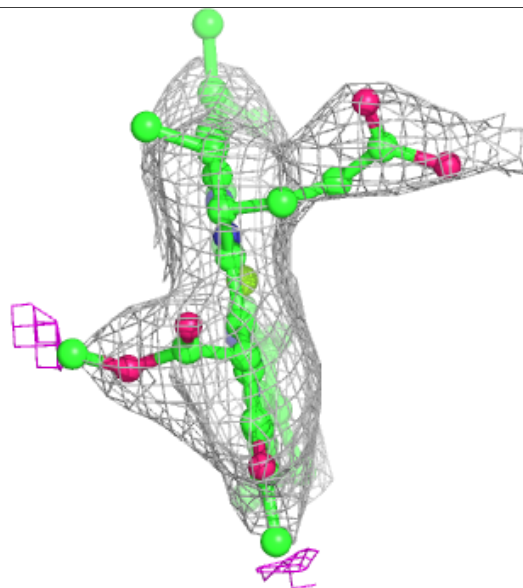
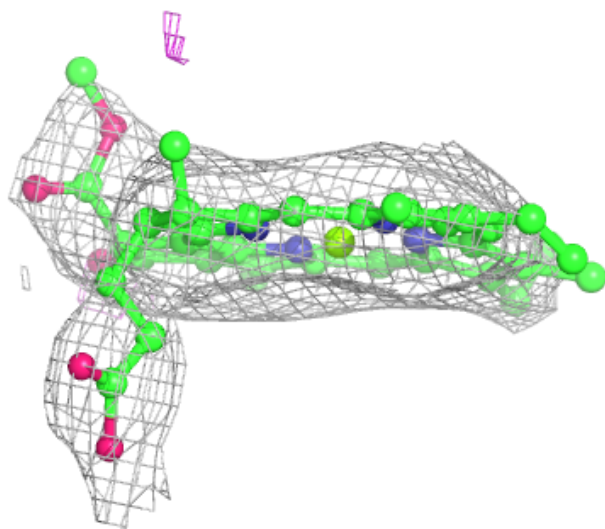
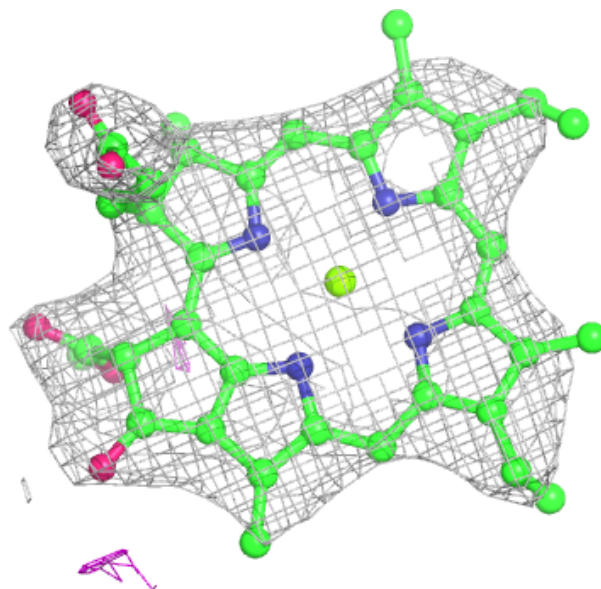
Electron density around CLA B 833:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



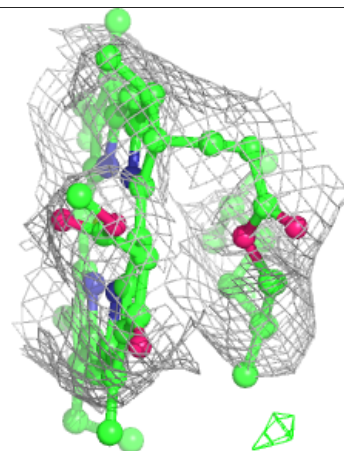
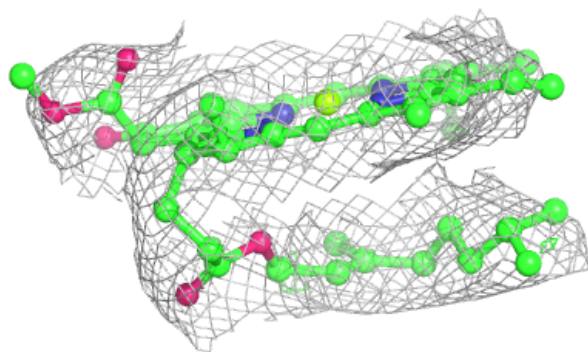
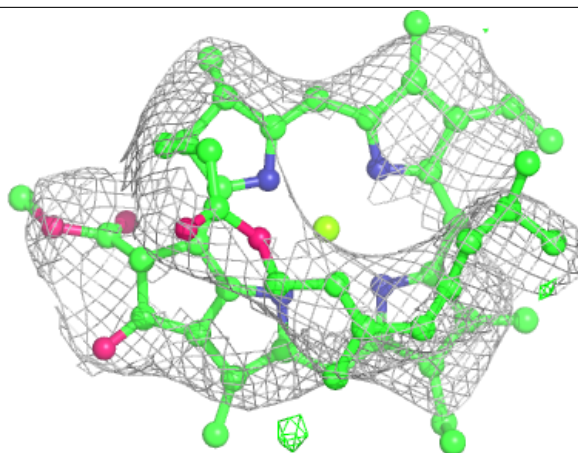
Electron density around CLA A 821:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

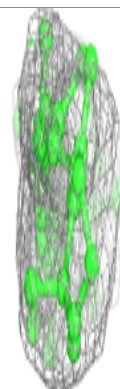
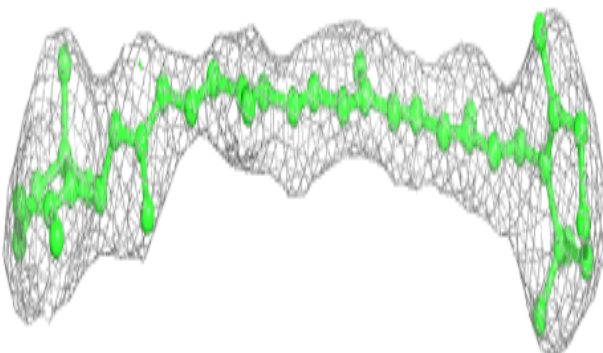
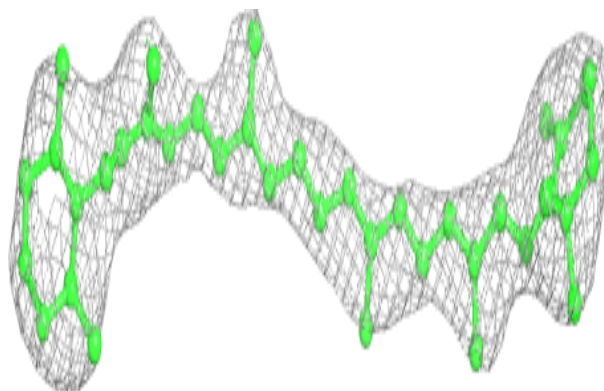


Electron density around CLA 3 312:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

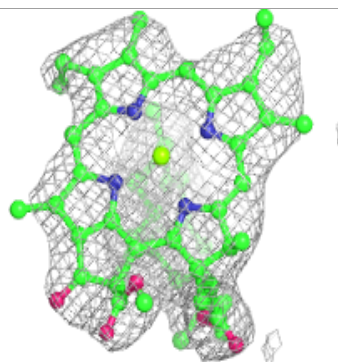
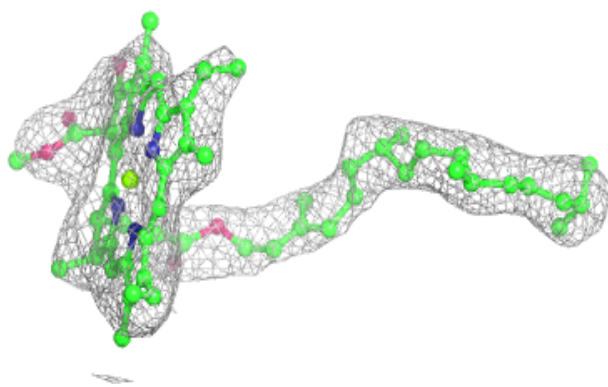
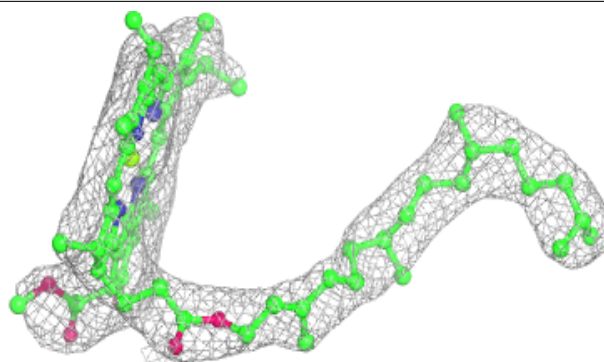
**Electron density around BCR a 853:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

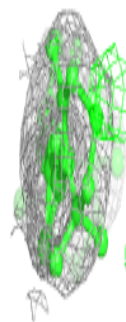
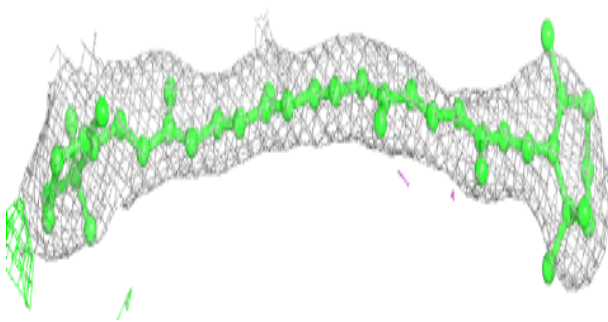
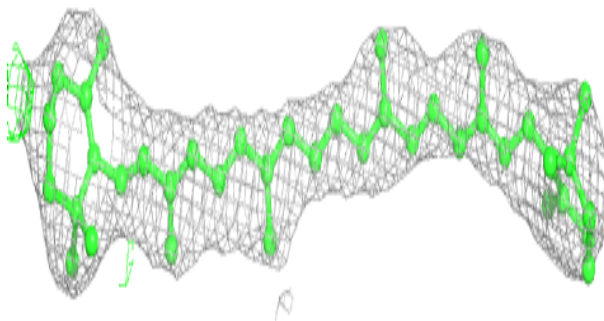


Electron density around CLA A 831:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

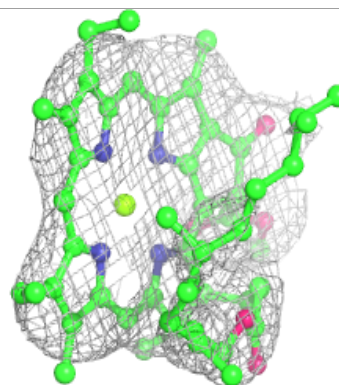
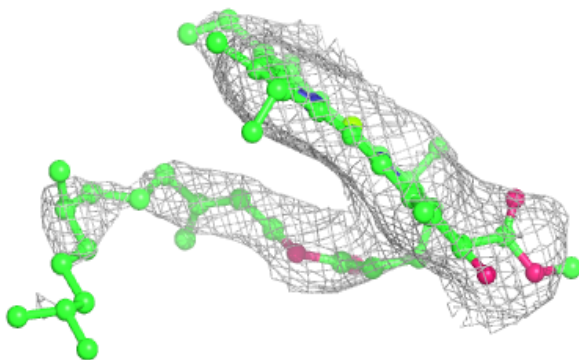
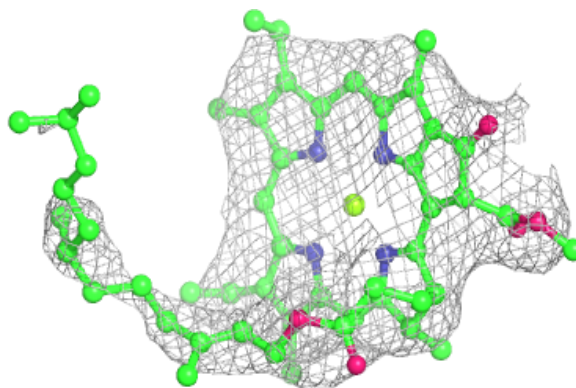
**Electron density around BCR b 843:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

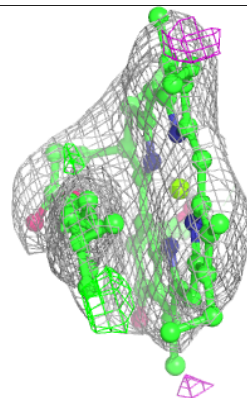
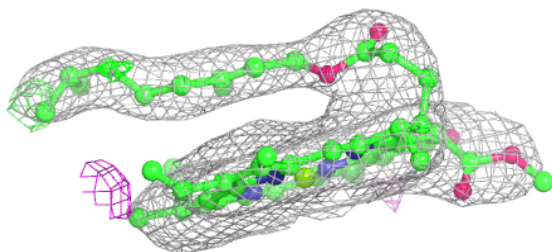
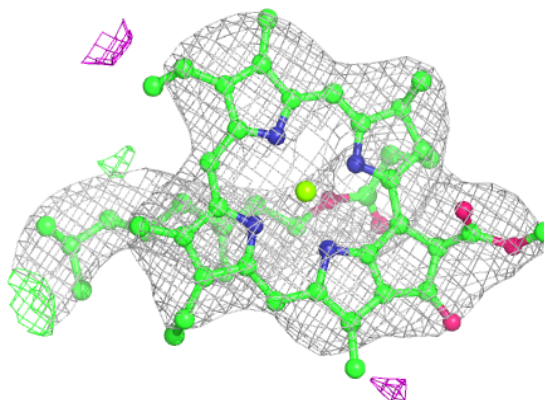


Electron density around CLA 7 609:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

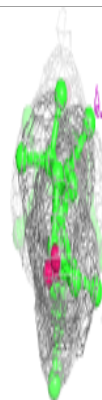
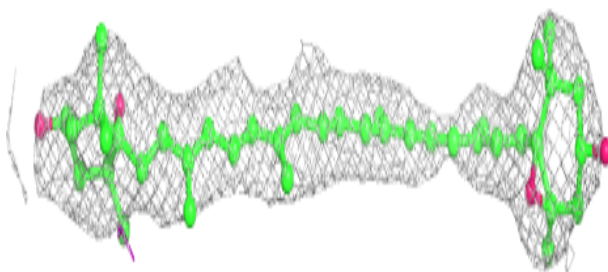
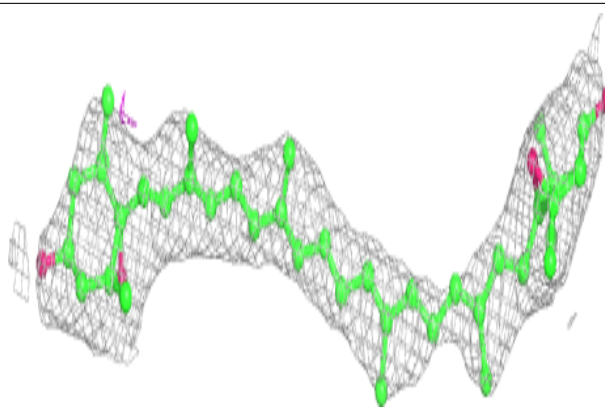
**Electron density around CLA b 816:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



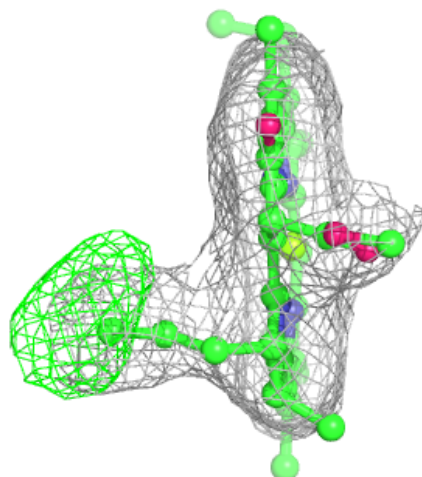
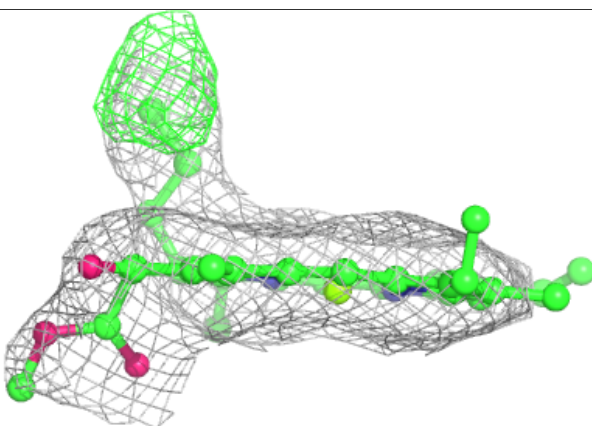
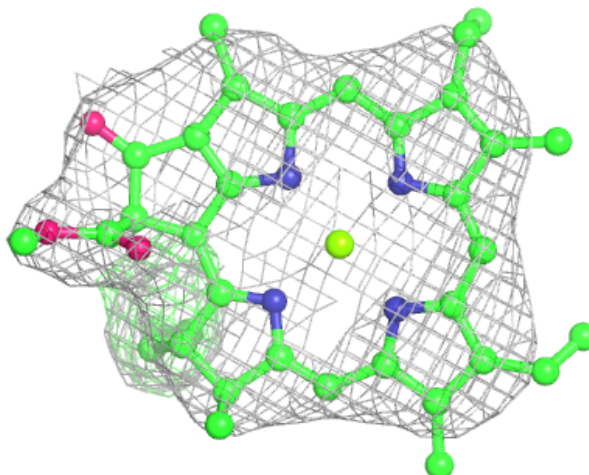
Electron density around XAT 1 317:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



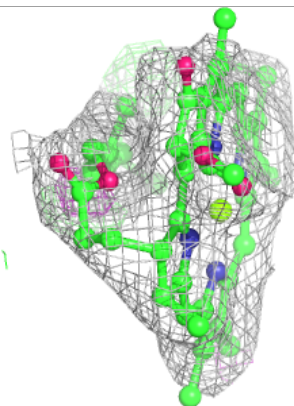
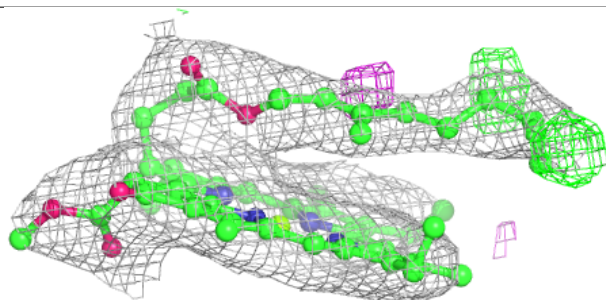
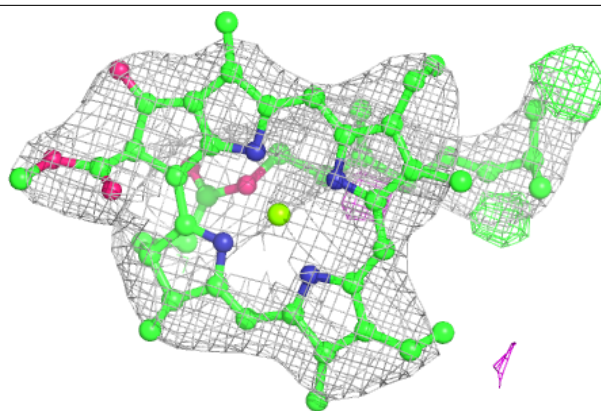
Electron density around CLA 7 613:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

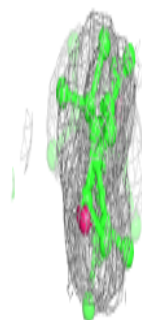
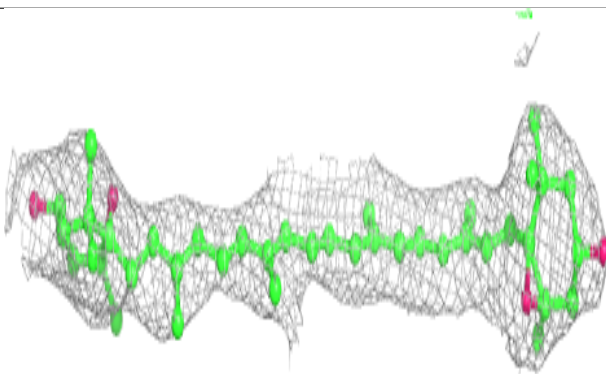
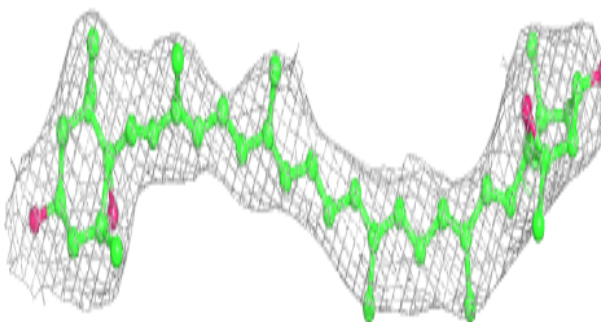


Electron density around CLA B 816:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

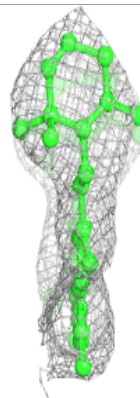
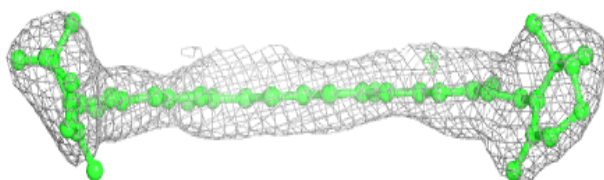
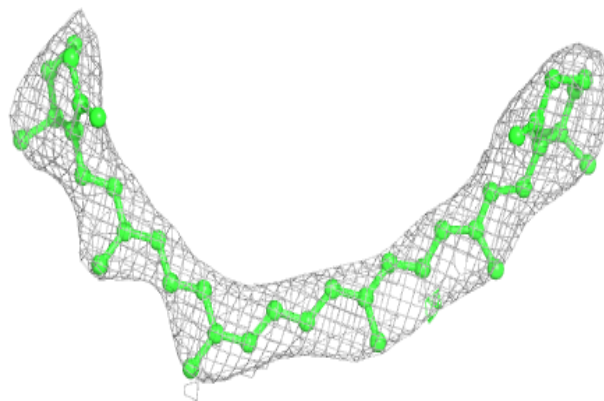
**Electron density around XAT 4 617:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



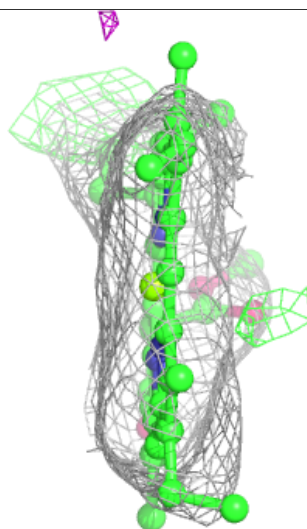
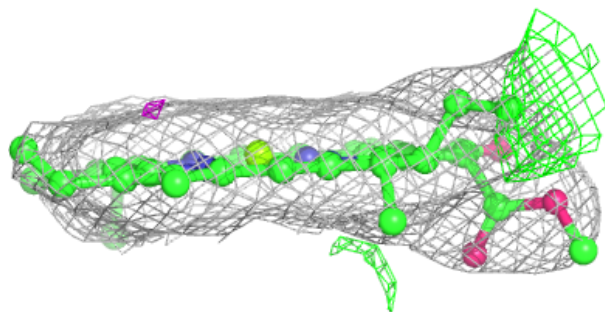
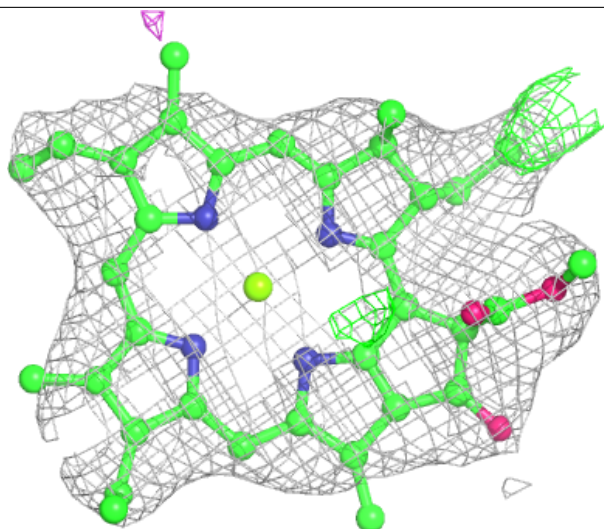
Electron density around BCR f 7004:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



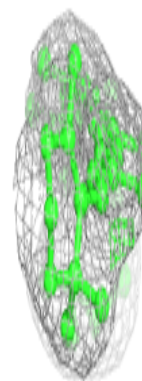
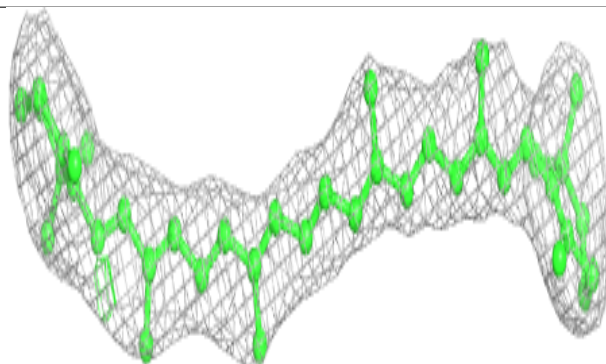
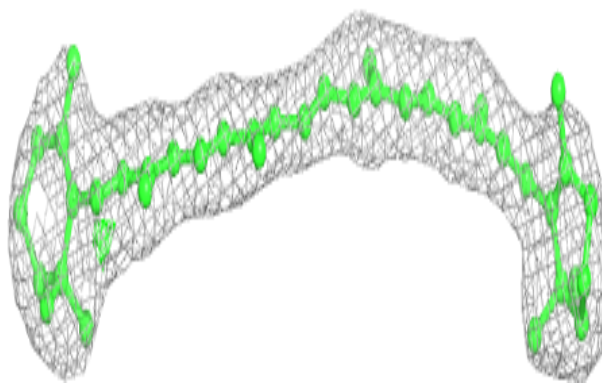
Electron density around CLA 8 304:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

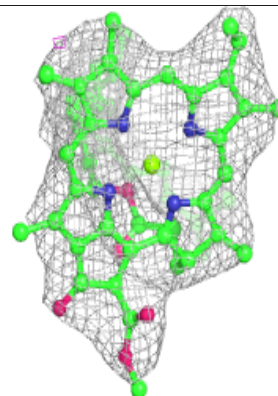
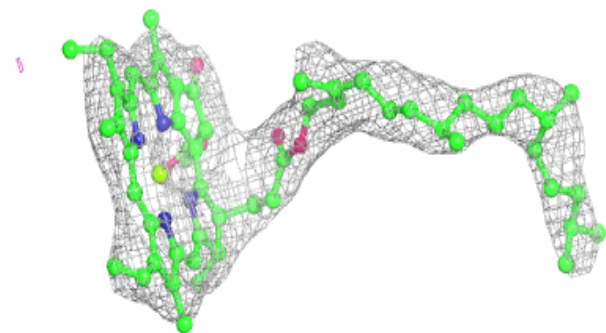
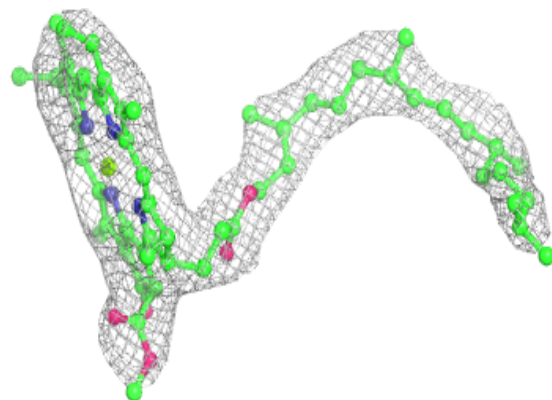


Electron density around BCR i 101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

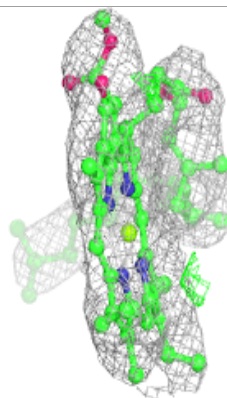
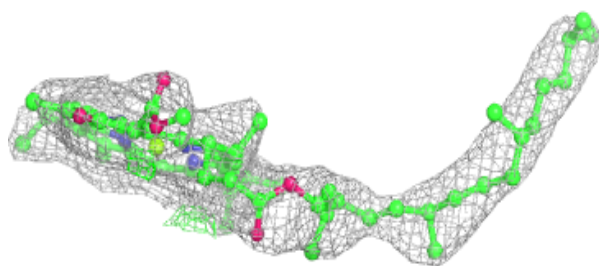
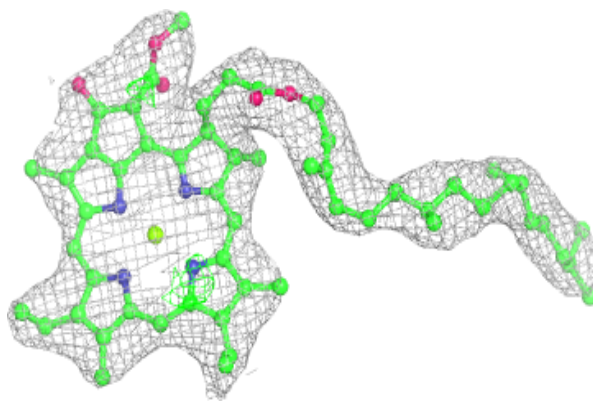
**Electron density around CLA B 839:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

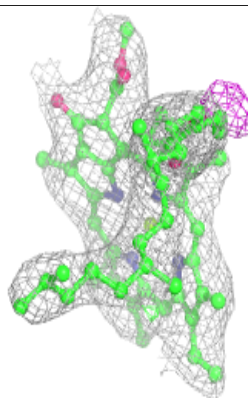
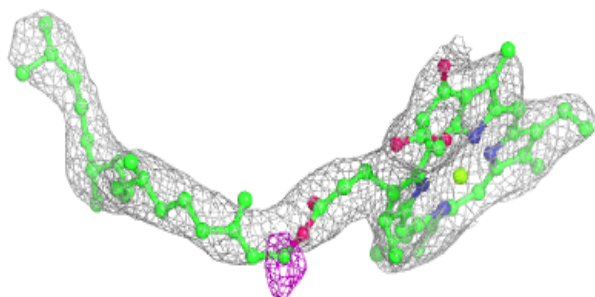
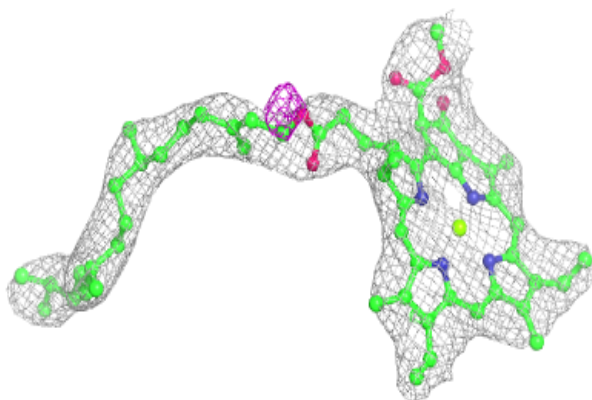


Electron density around CLA B 803:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

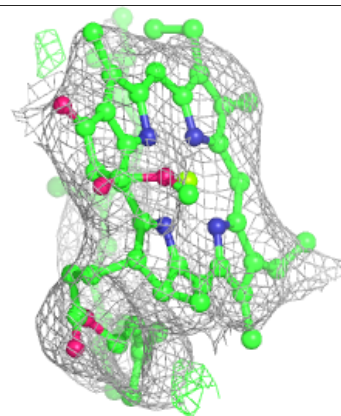
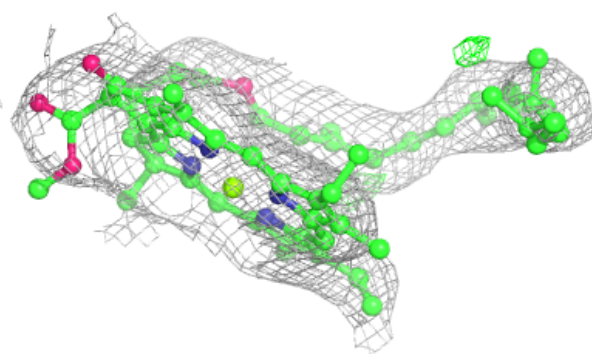
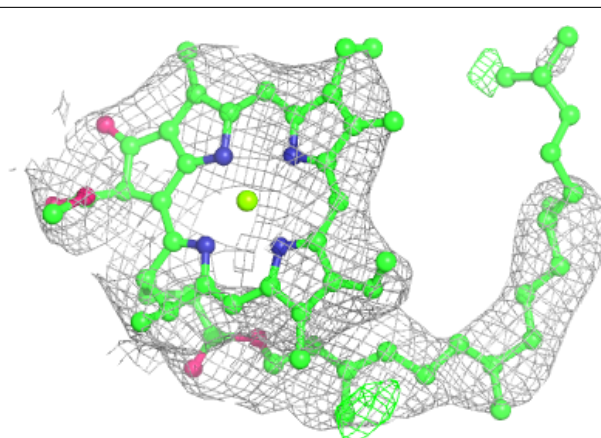
**Electron density around CLA a 856:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



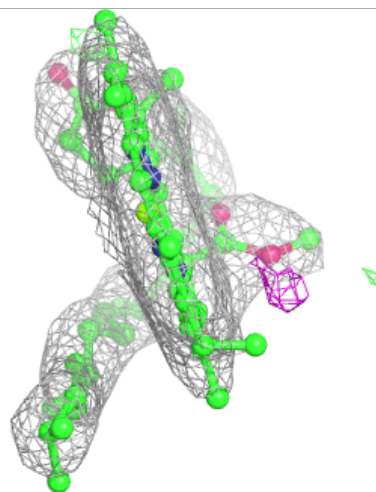
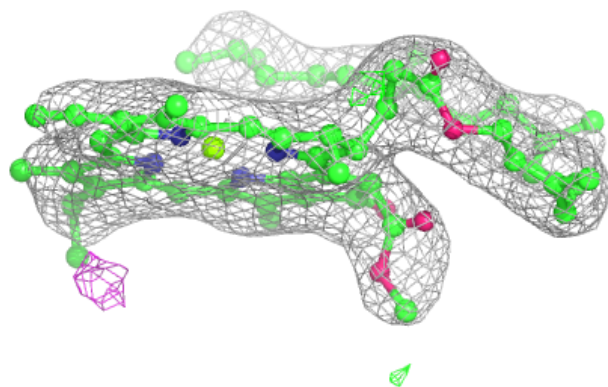
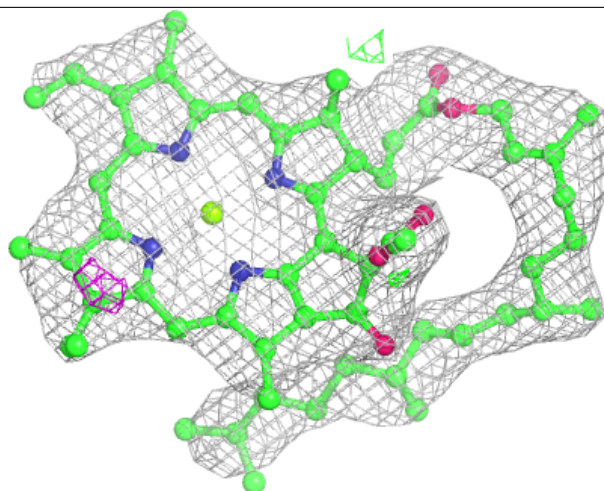
Electron density around CLA 6 304:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



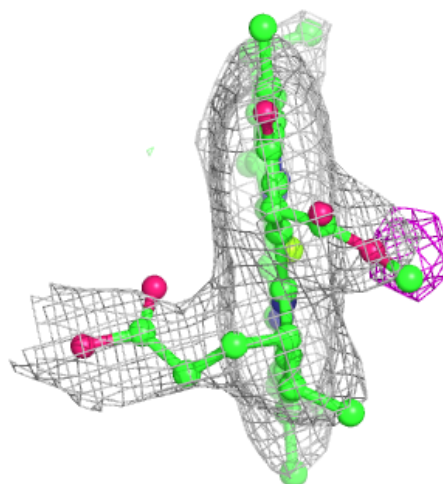
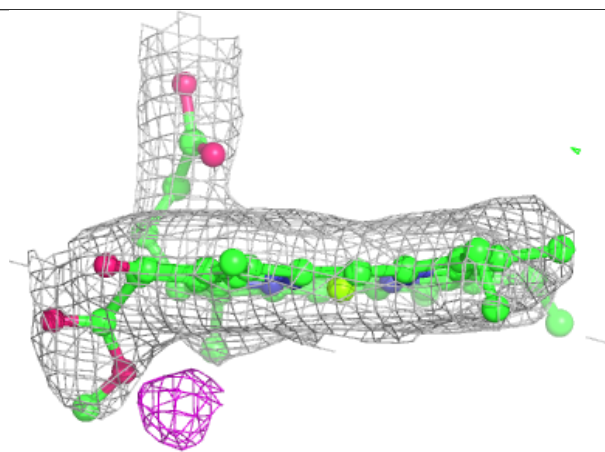
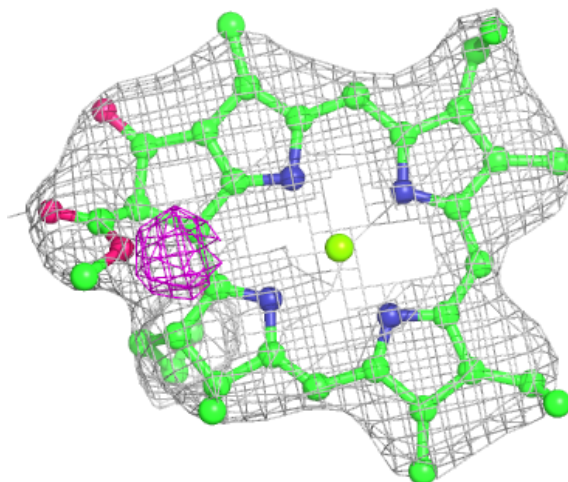
Electron density around CLA b 805:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



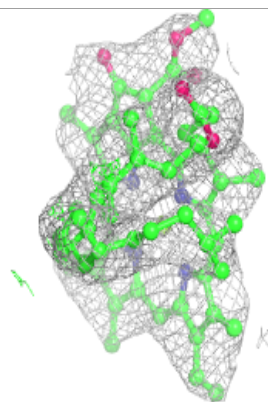
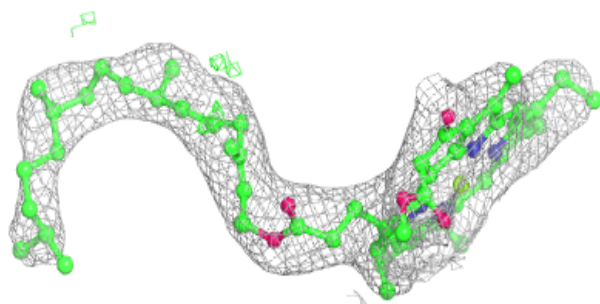
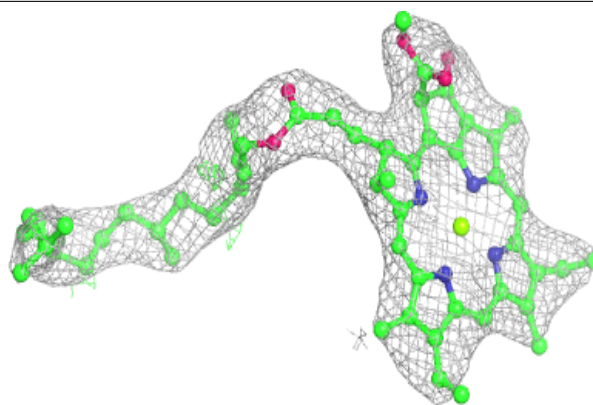
Electron density around CLA B 804:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



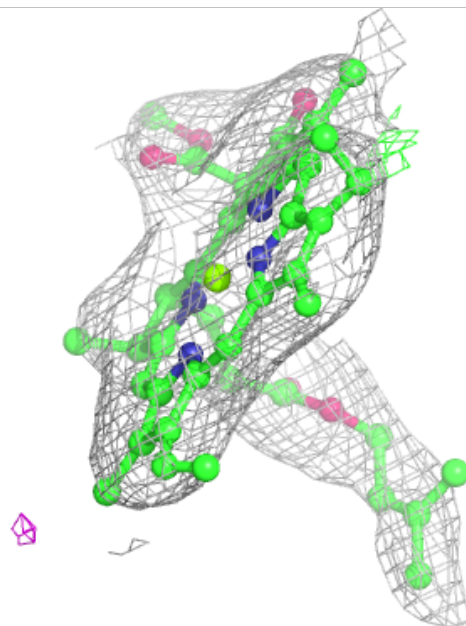
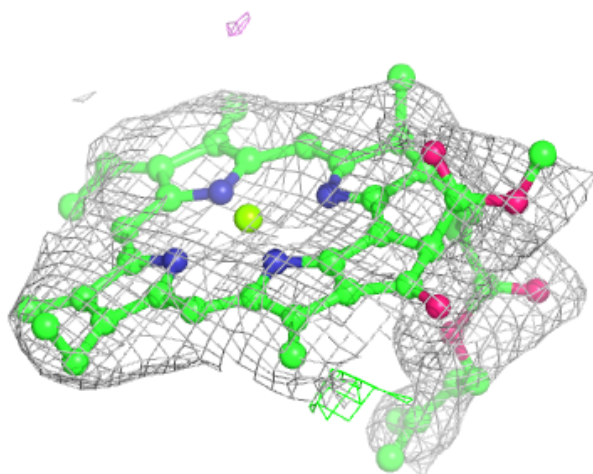
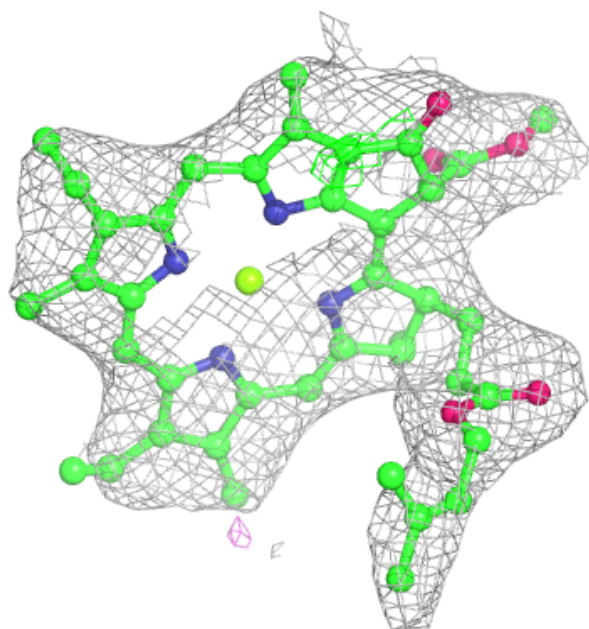
Electron density around CLA b 809:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



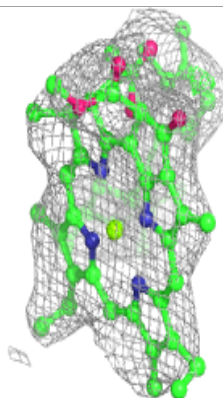
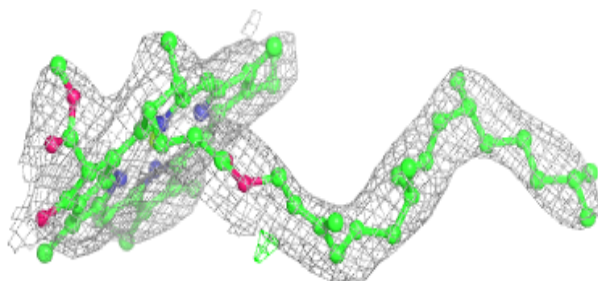
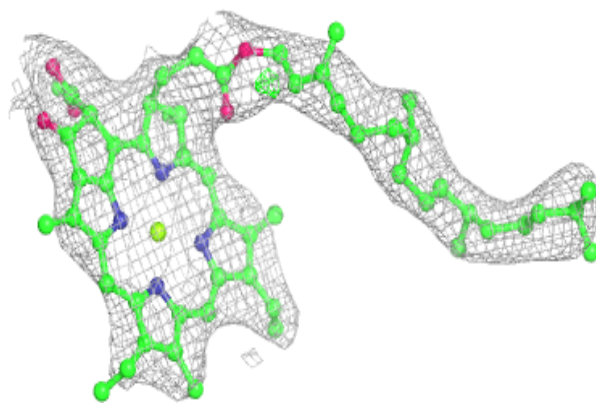
Electron density around CLA 4 608:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

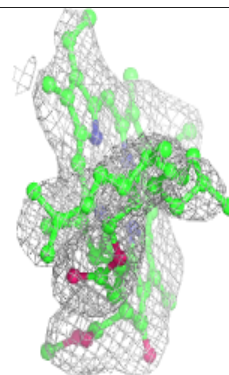
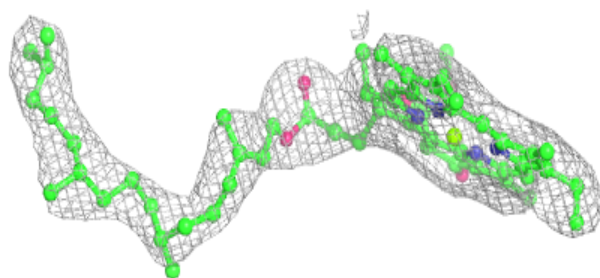
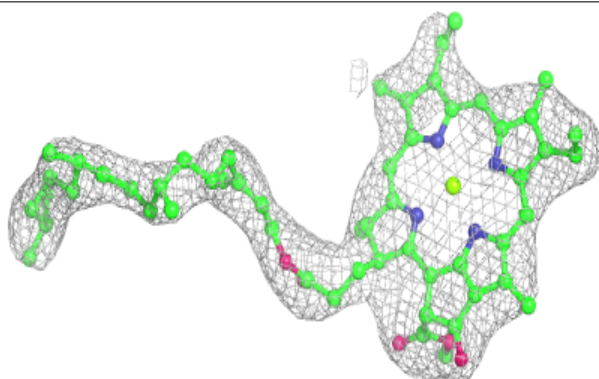


Electron density around CLA A 809:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

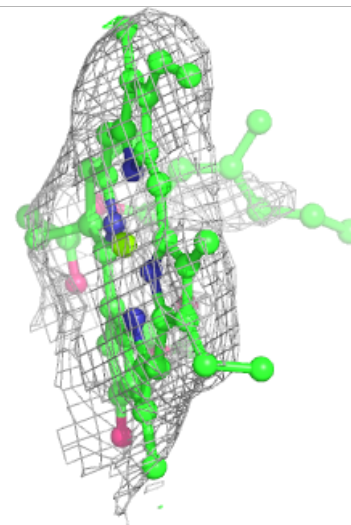
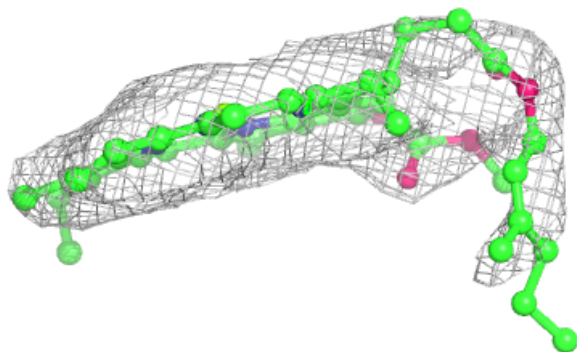
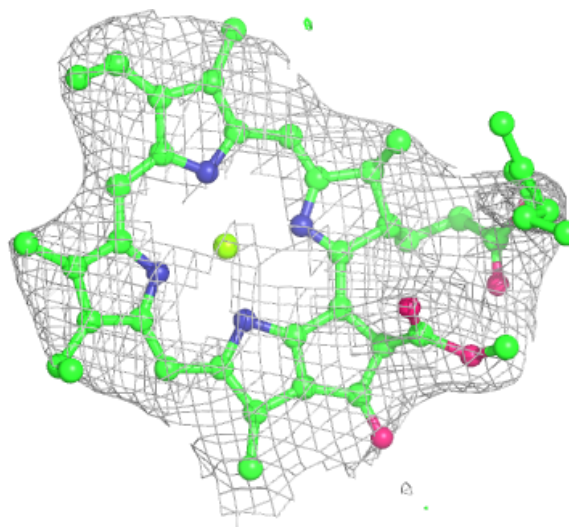
**Electron density around CLA b 813:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



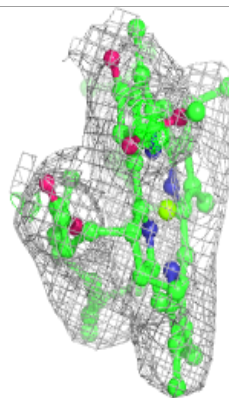
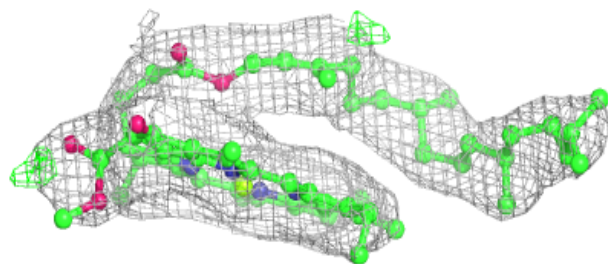
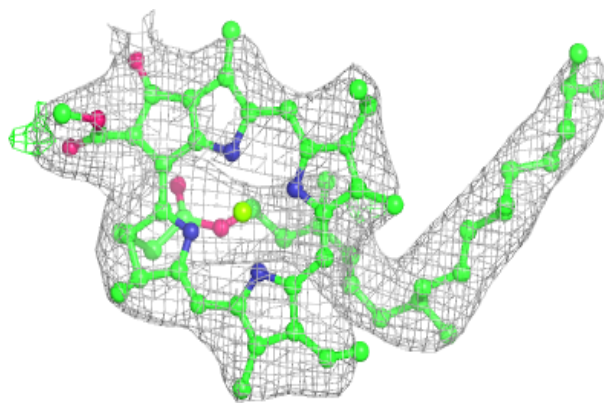
Electron density around CLA 2 611:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



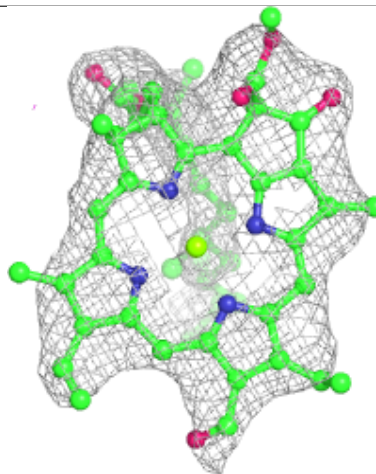
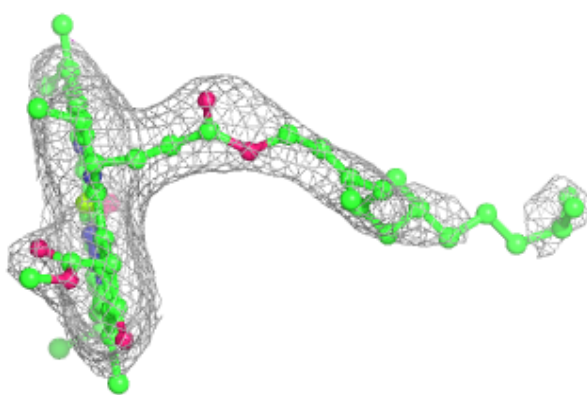
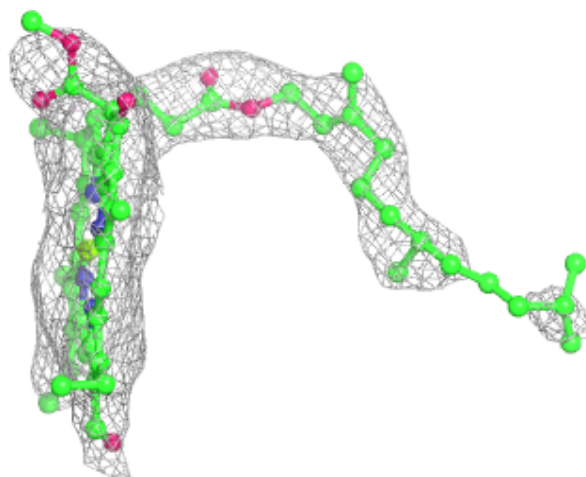
Electron density around CLA B 837:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



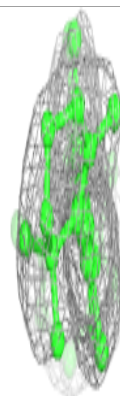
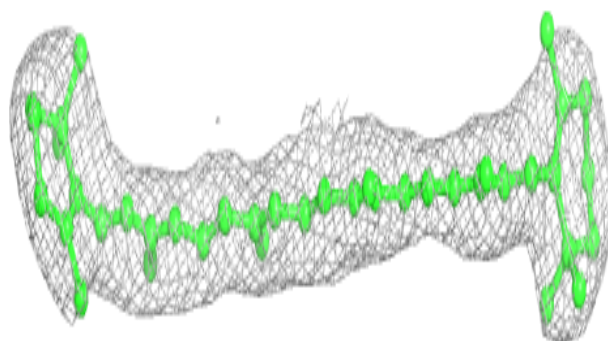
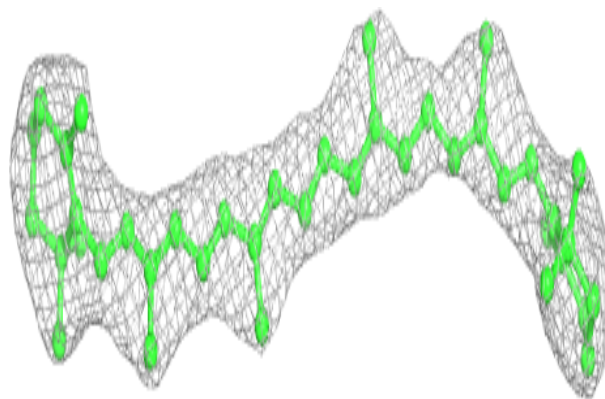
Electron density around CHL 1 302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



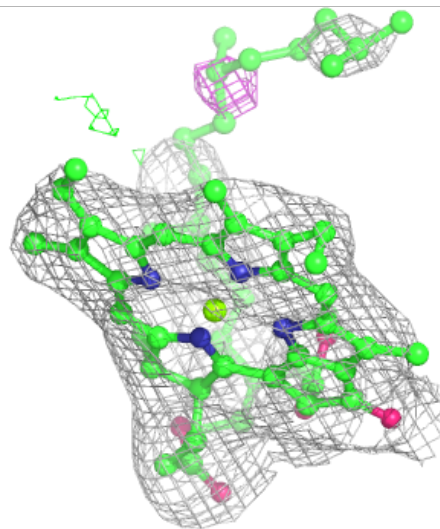
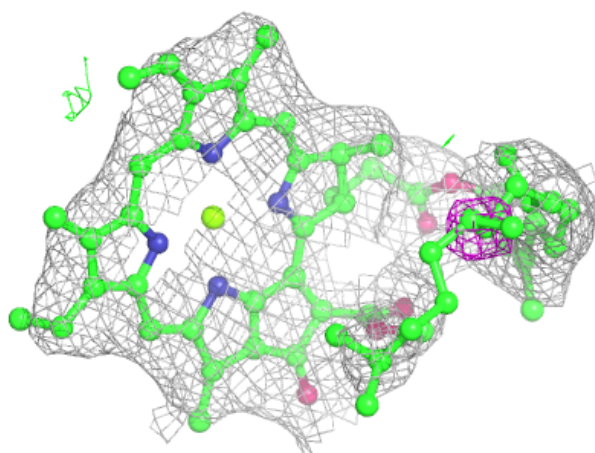
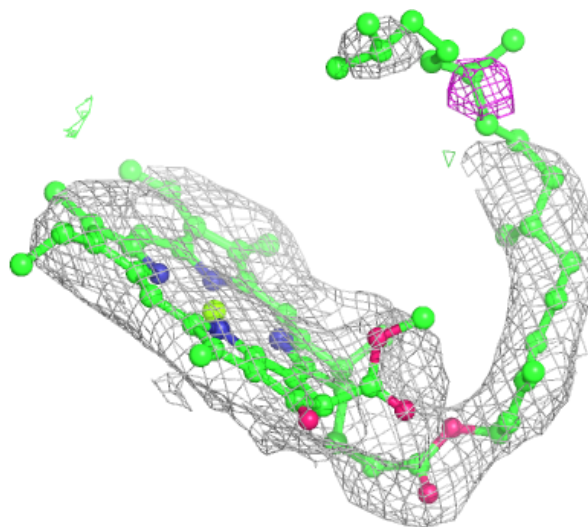
Electron density around BCR B 848:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



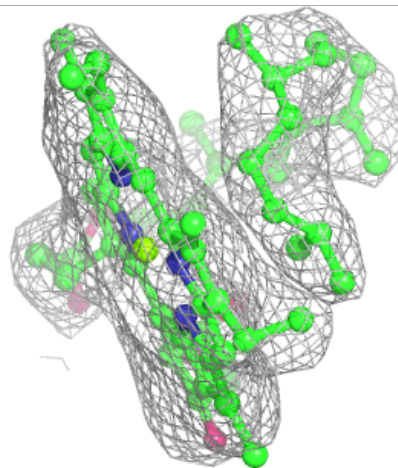
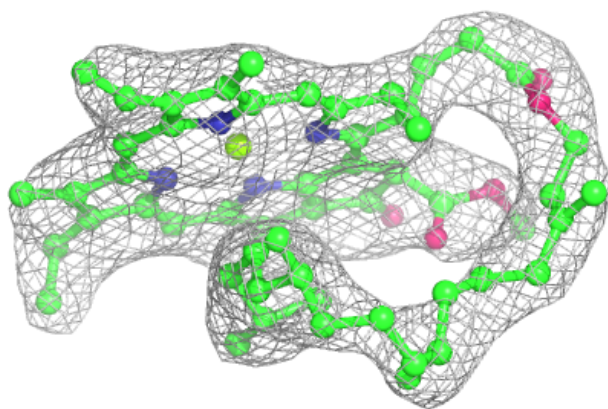
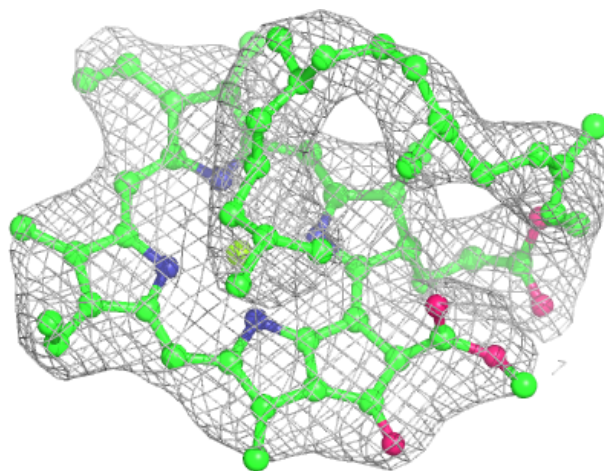
Electron density around CLA 1 304:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



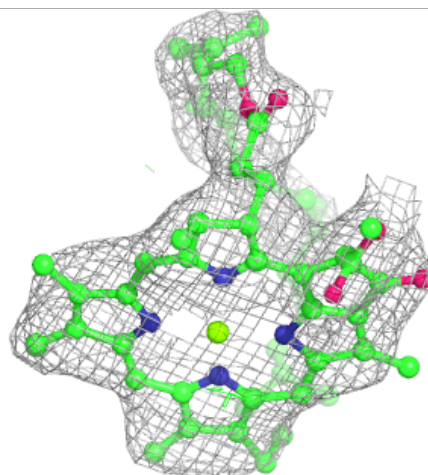
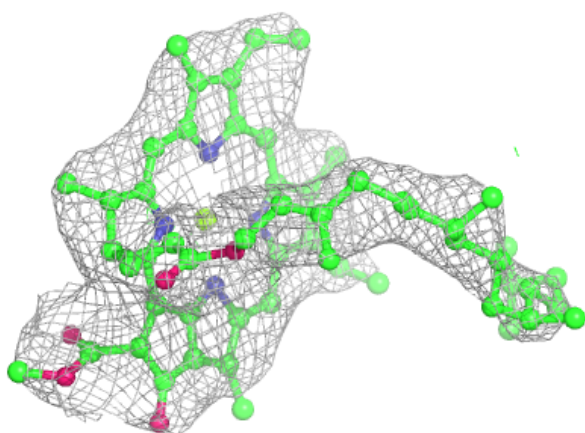
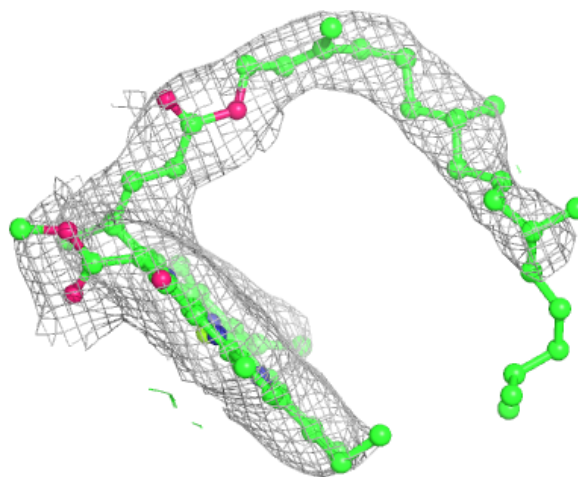
Electron density around CLA B 806:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



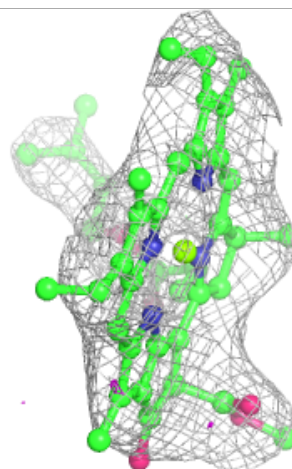
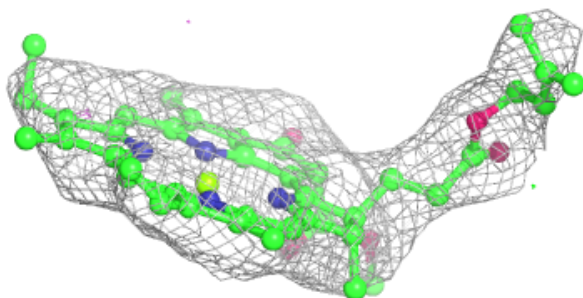
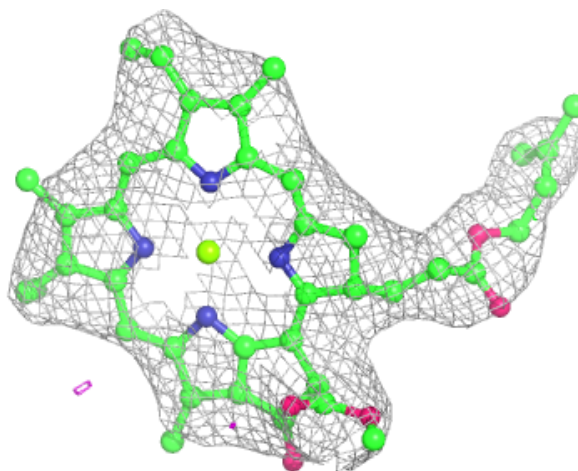
Electron density around CLA b 819:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



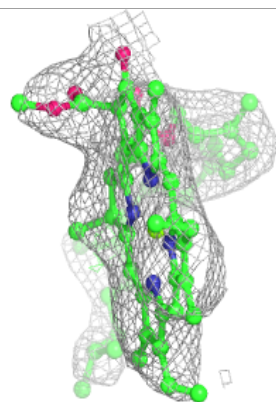
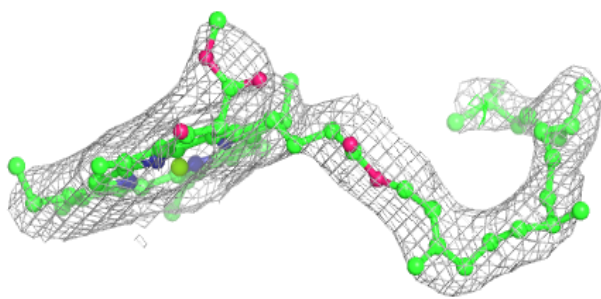
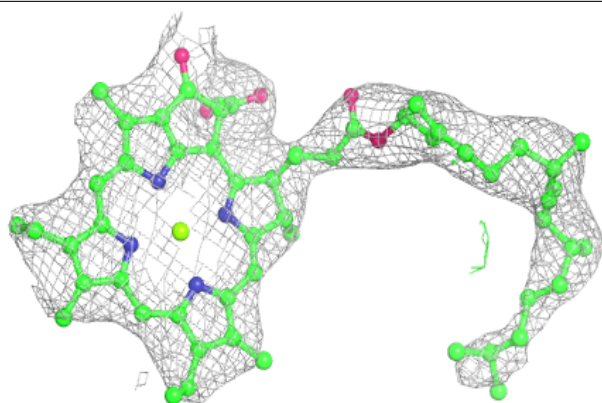
Electron density around CLA 4 614:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

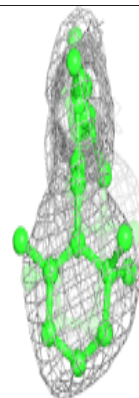
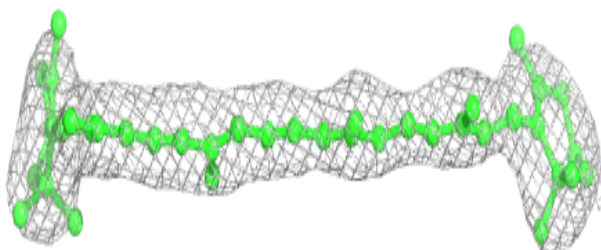
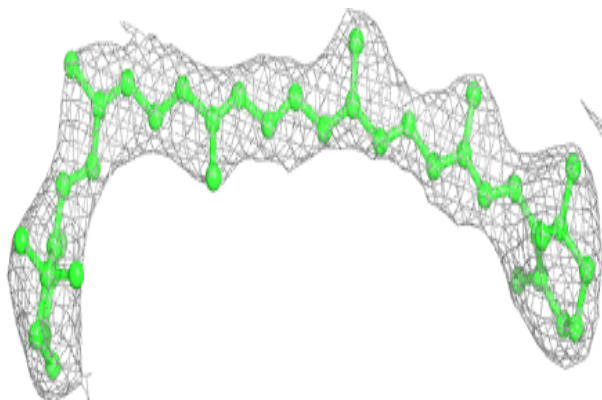


Electron density around CLA A 828:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

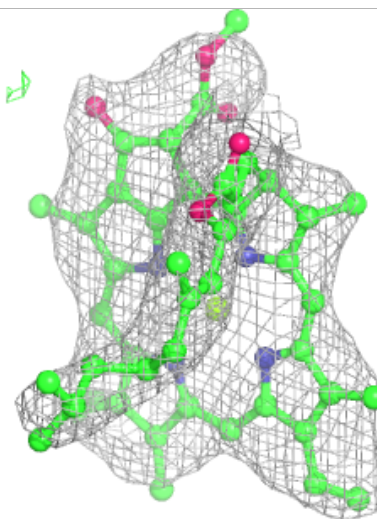
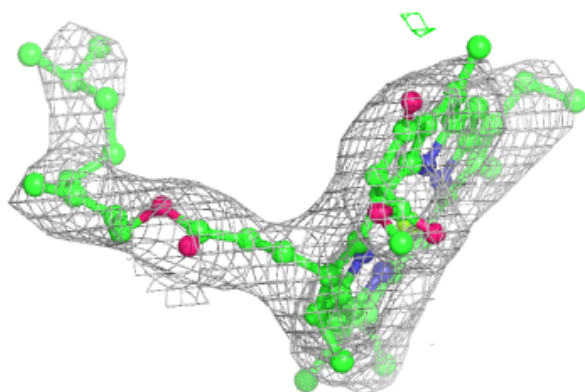
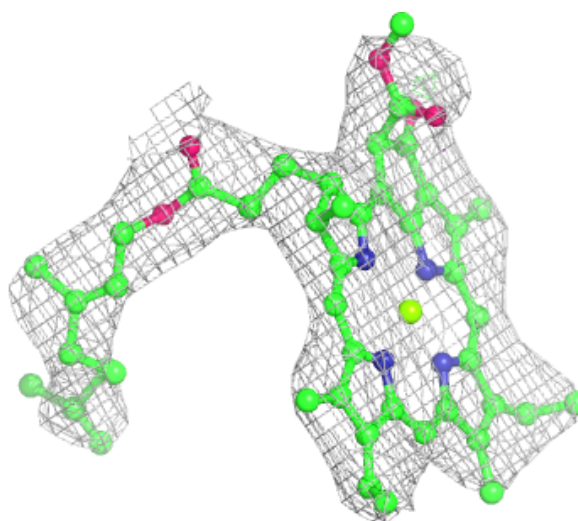
**Electron density around BCR L 201:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



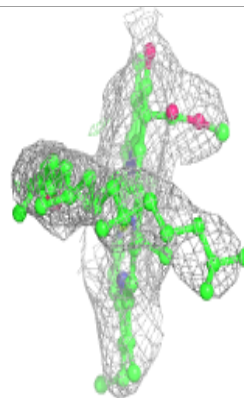
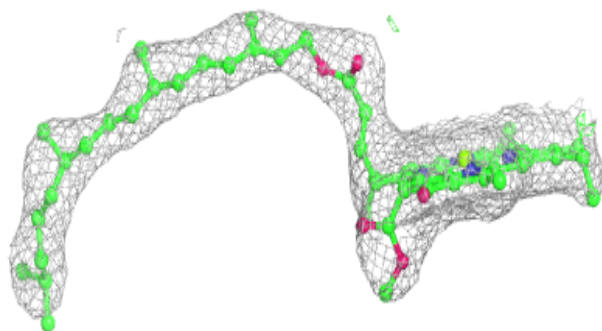
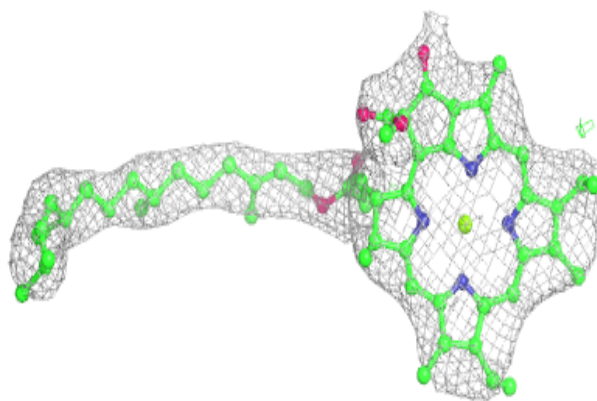
Electron density around CLA a 805:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

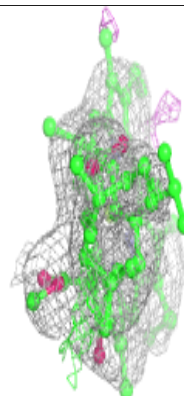
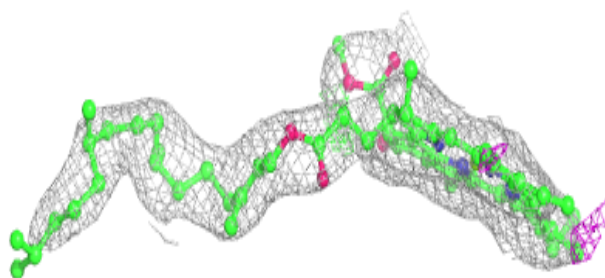
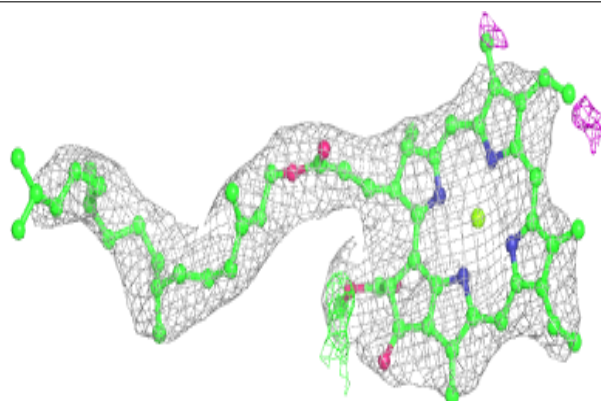


Electron density around CLA B 841:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

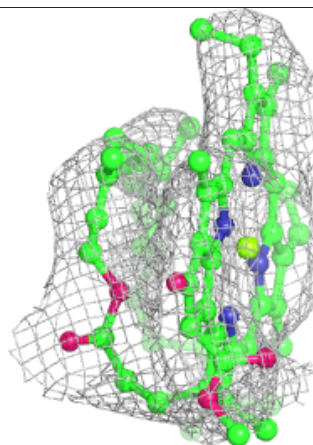
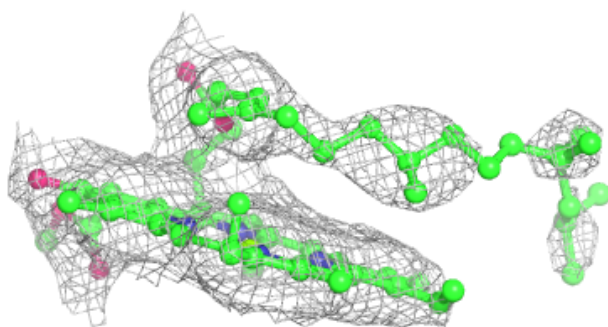
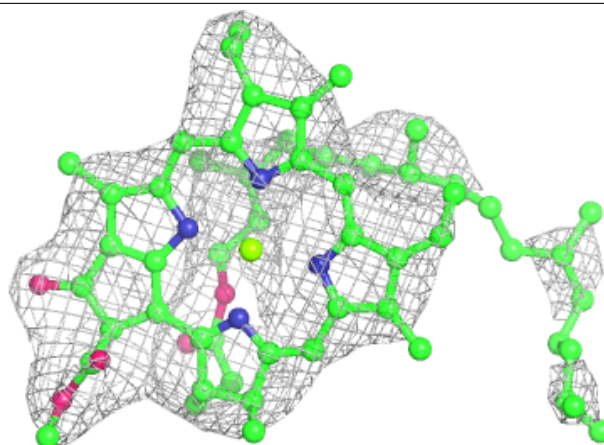
**Electron density around CLA F 301:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



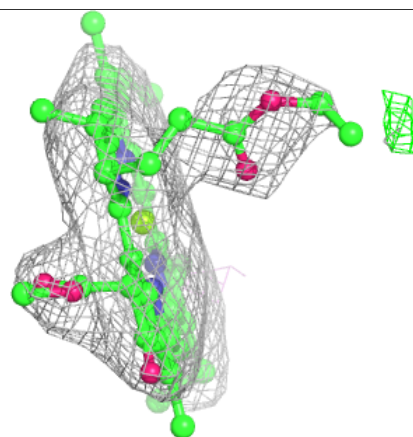
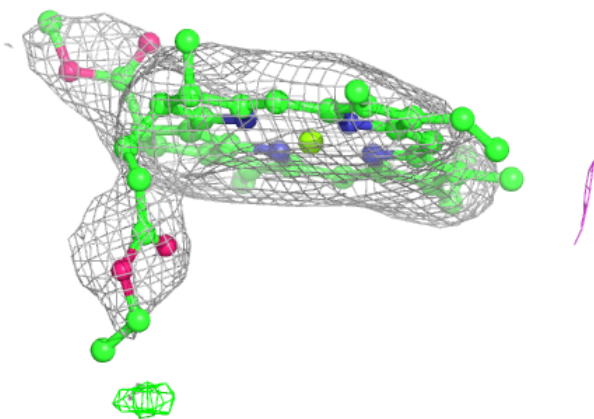
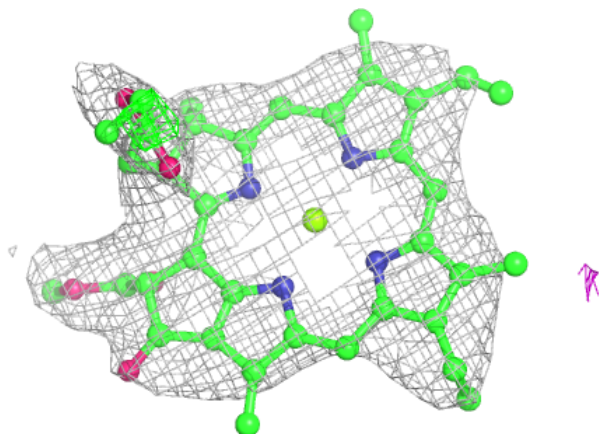
Electron density around CLA 7 612:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



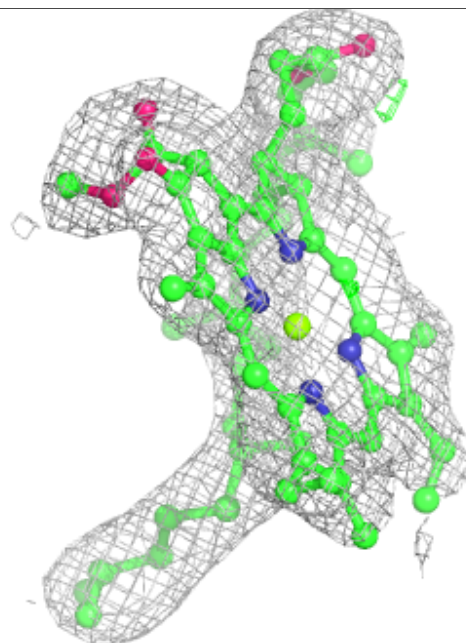
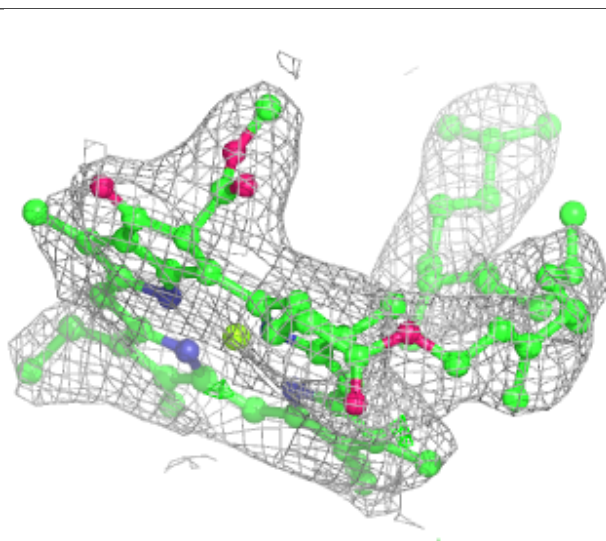
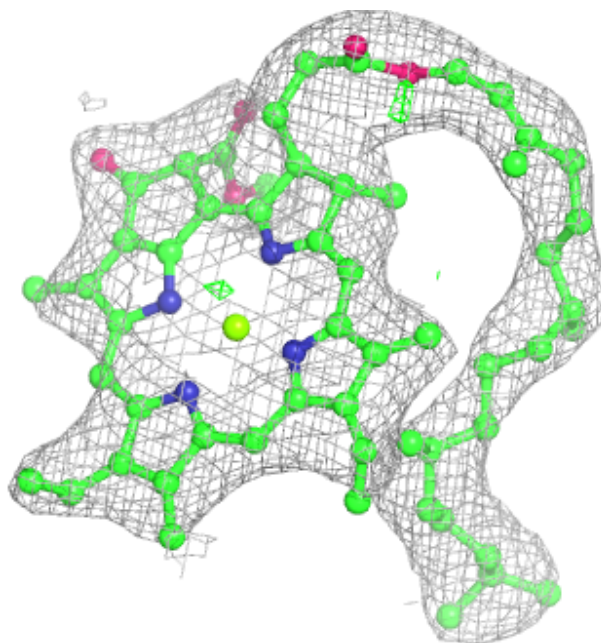
Electron density around CLA 3 306:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



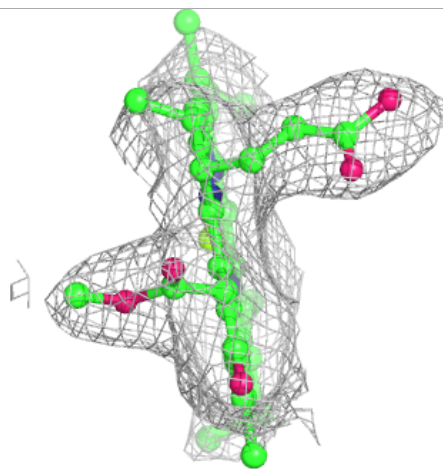
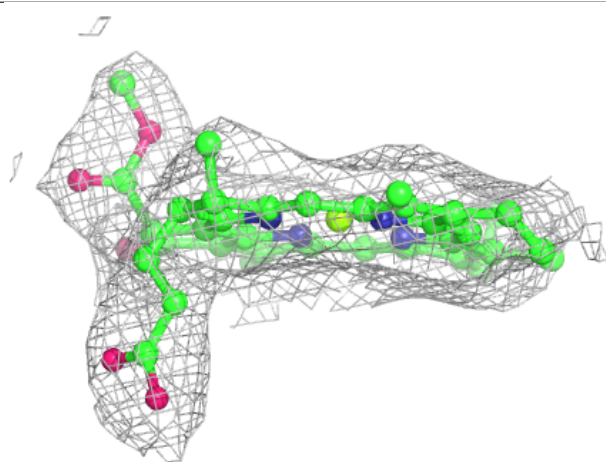
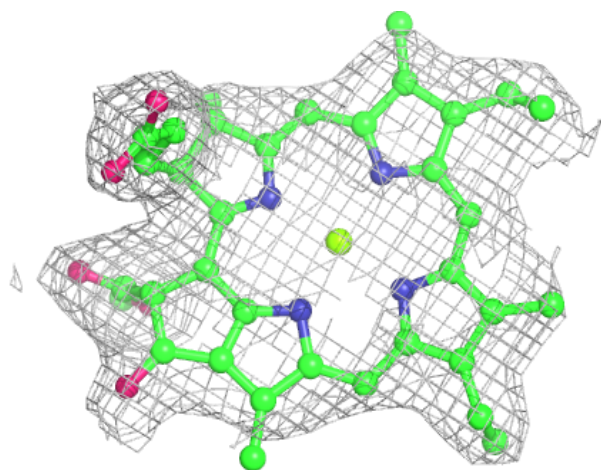
Electron density around CLA a 814:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



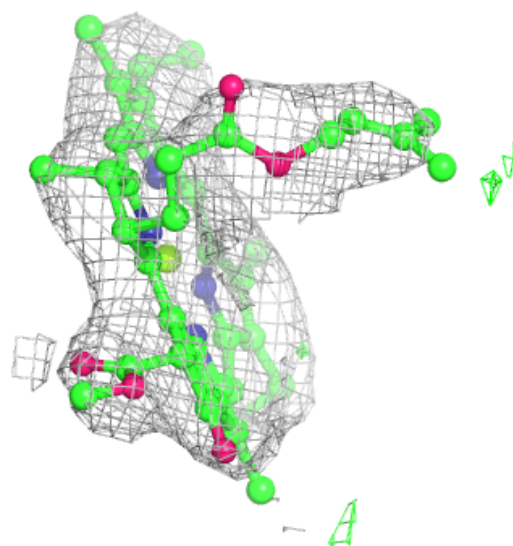
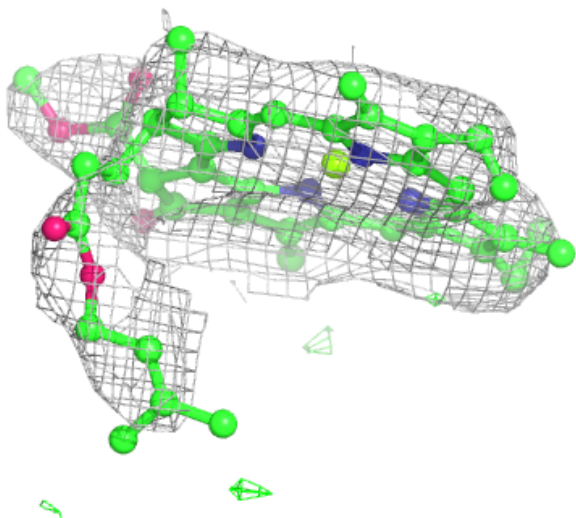
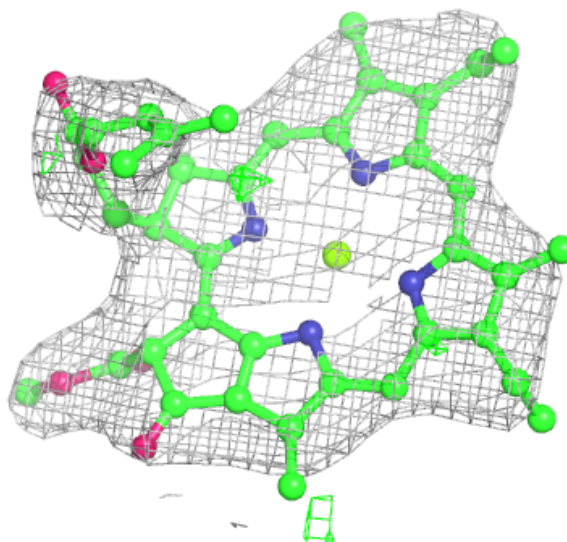
Electron density around CLA a 815:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



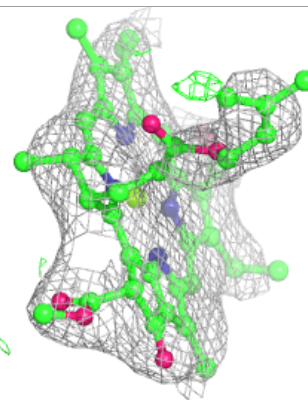
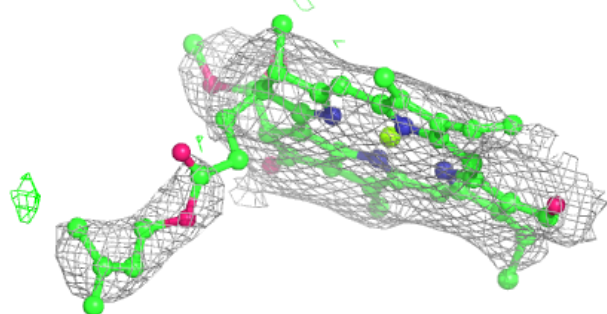
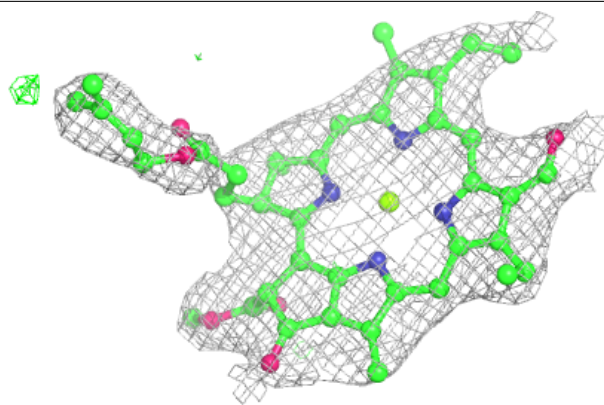
Electron density around CLA 3 308:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

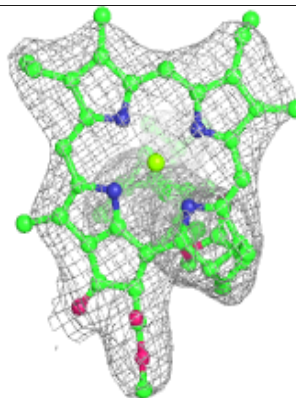
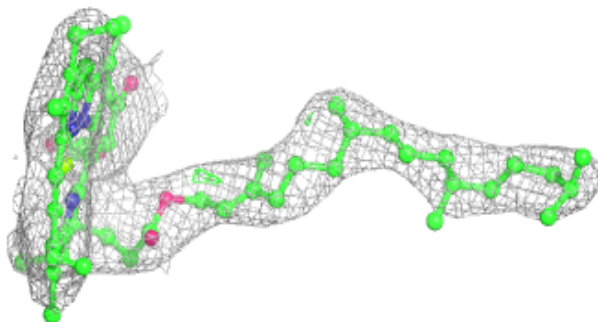
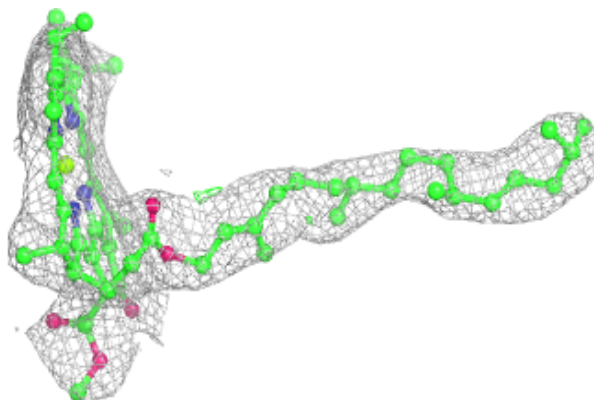


Electron density around CHL 7 607:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

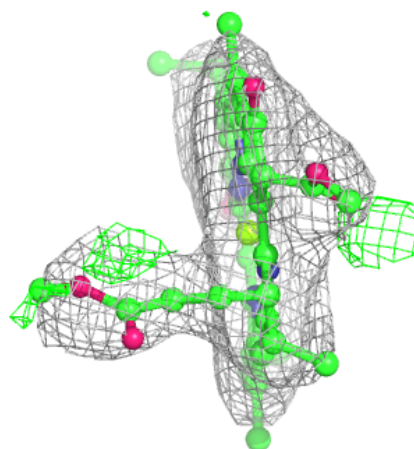
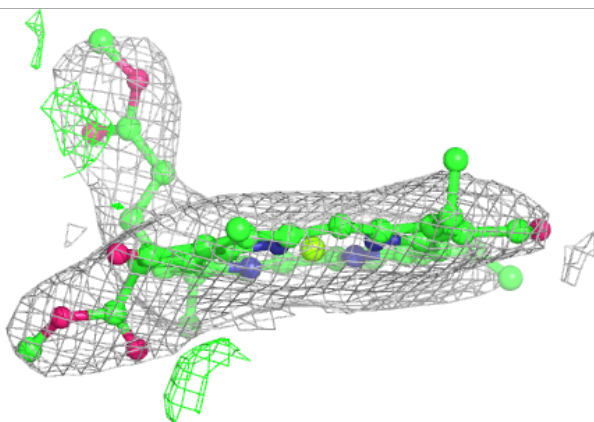
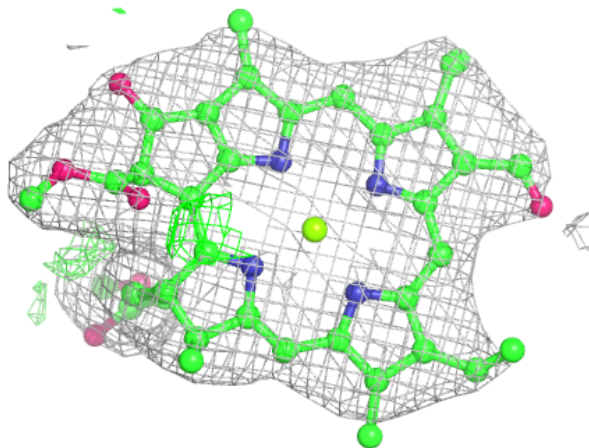
**Electron density around CLA A 829:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



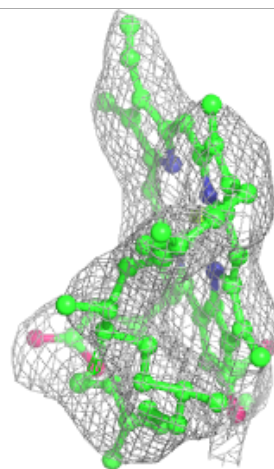
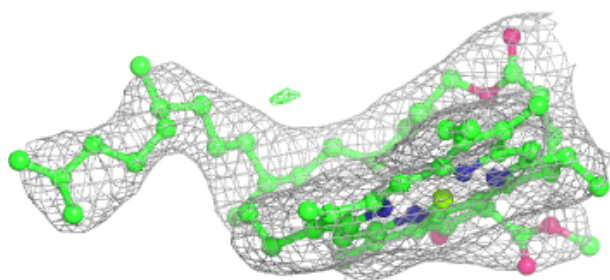
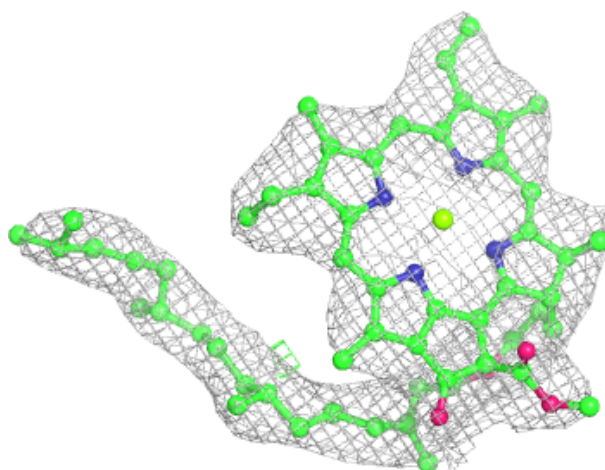
Electron density around CHL 8 306:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



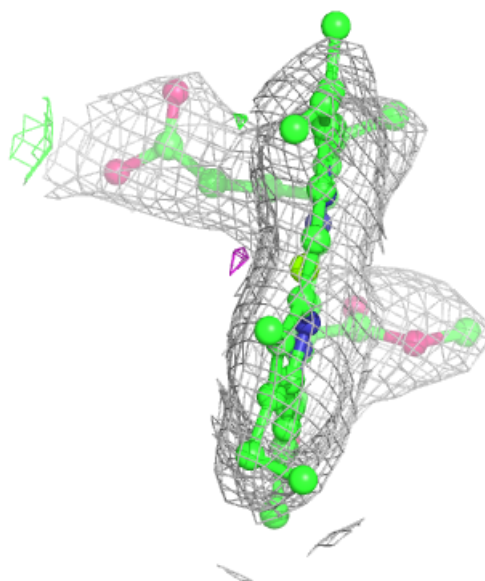
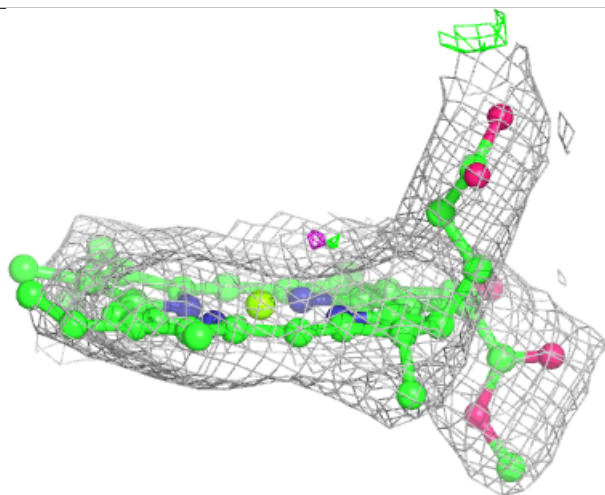
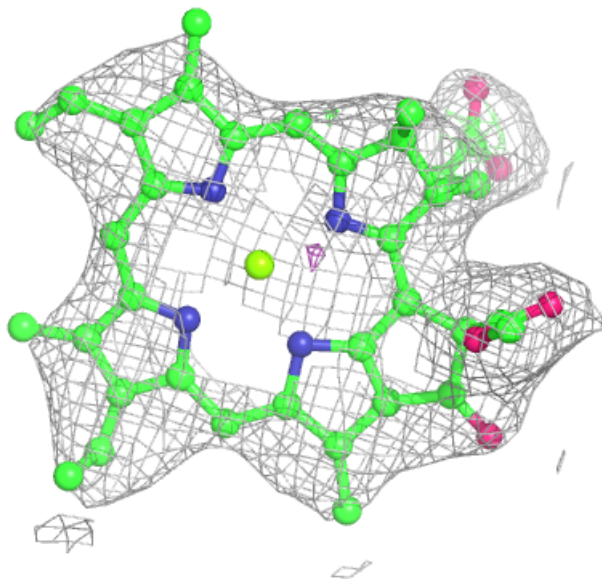
Electron density around CLA A 830:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



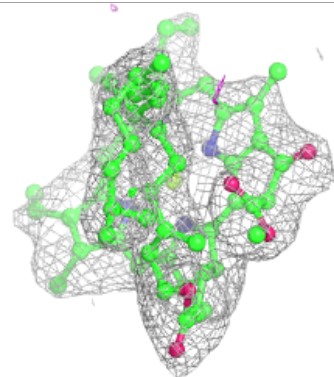
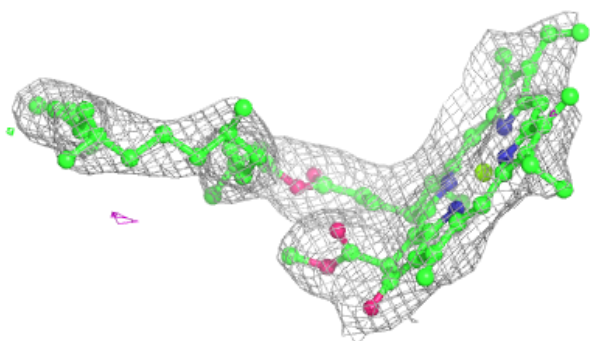
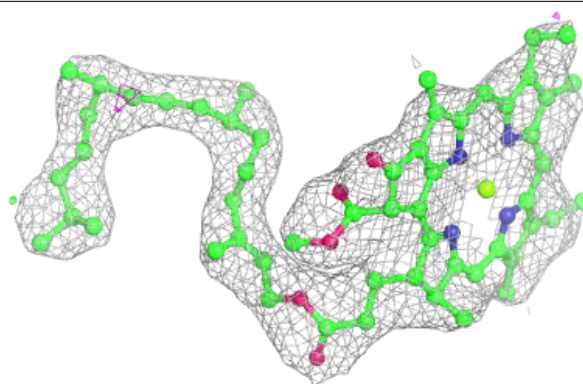
Electron density around CLA a 821:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

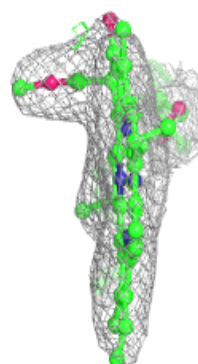
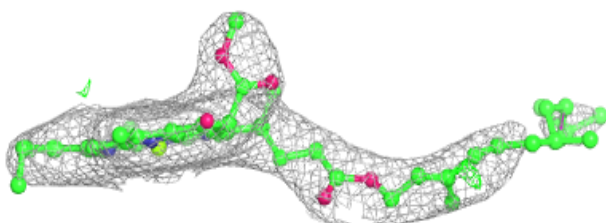
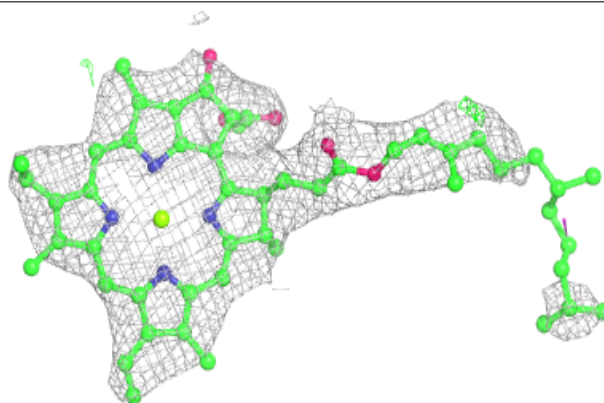


Electron density around CLA A 801:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

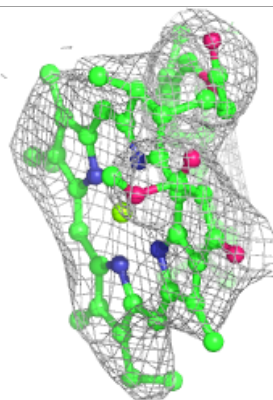
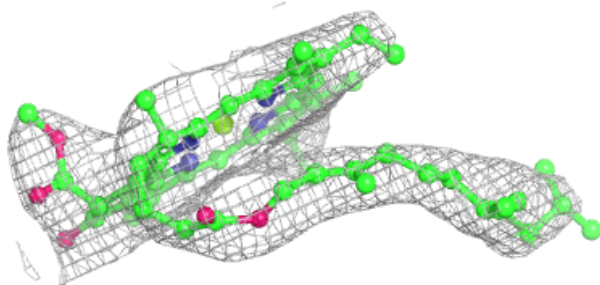
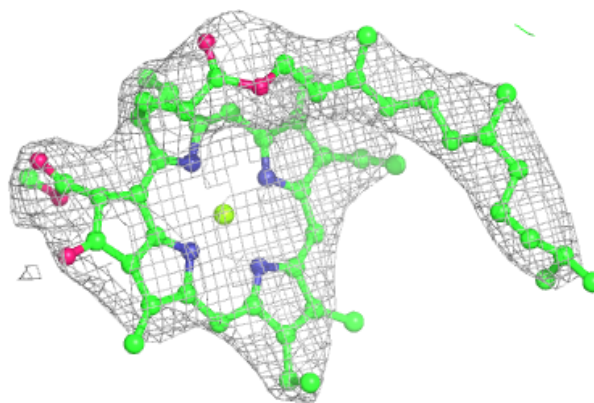
**Electron density around CLA b 836:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

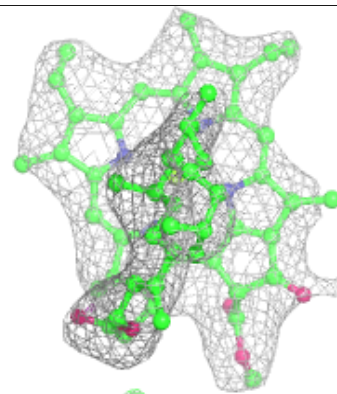
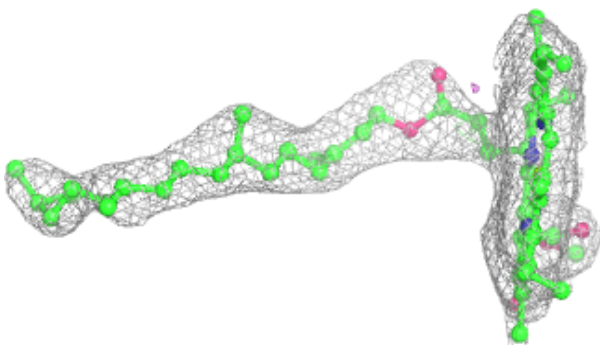
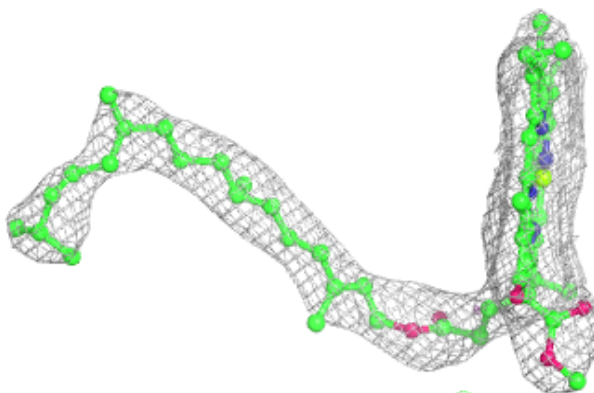


Electron density around CLA 9 602:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

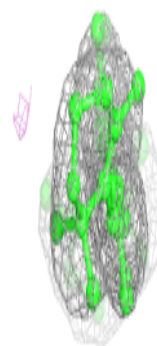
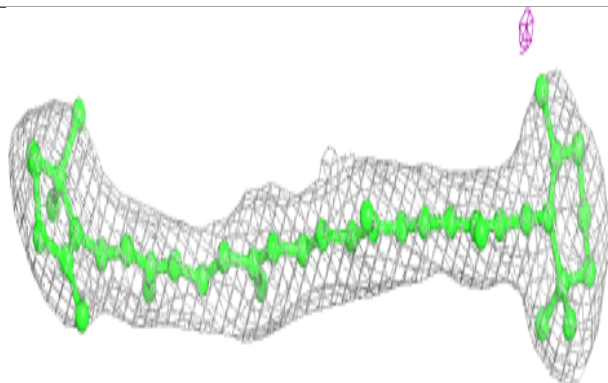
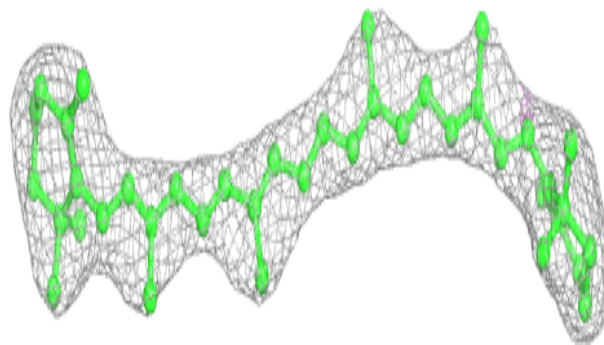
**Electron density around CLA b 840:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



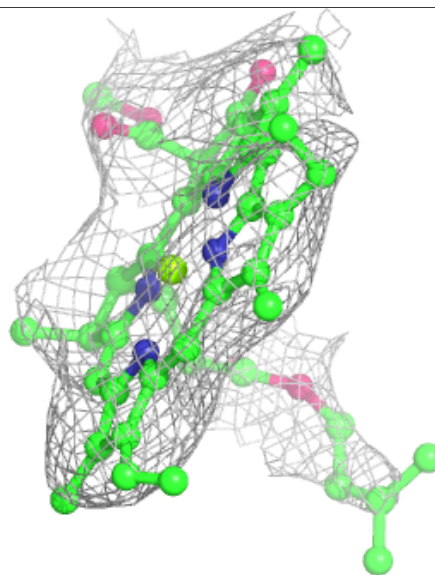
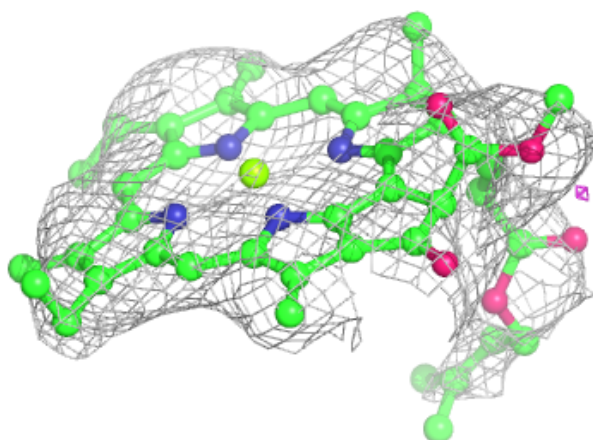
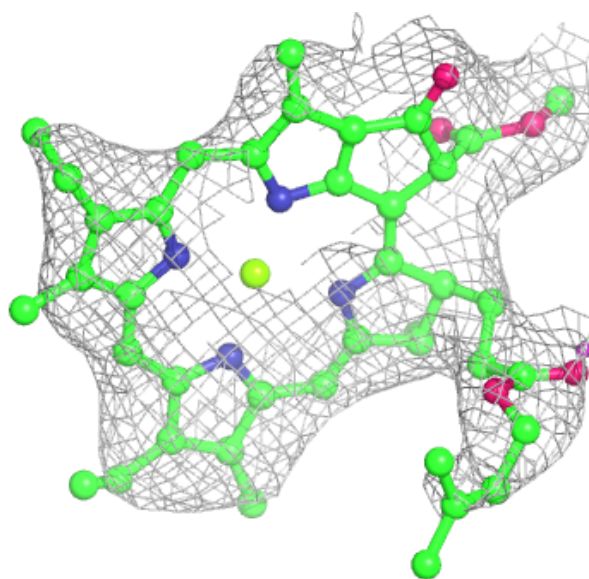
Electron density around BCR b 848:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



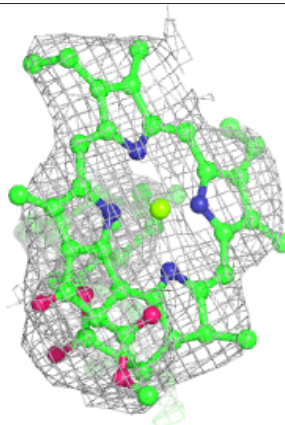
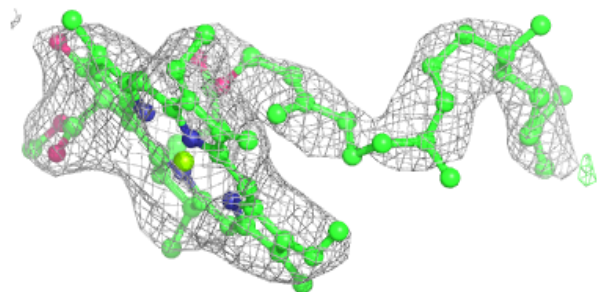
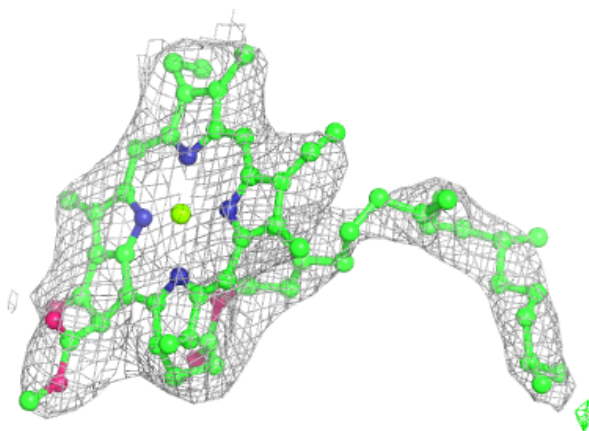
Electron density around CLA 9 608:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



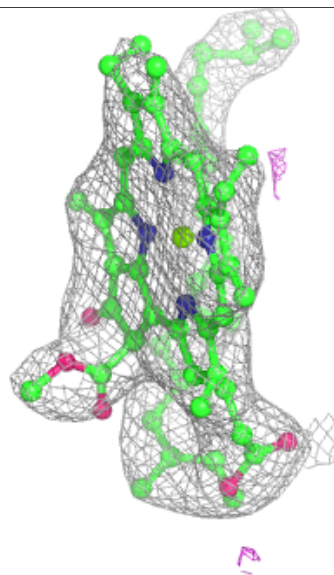
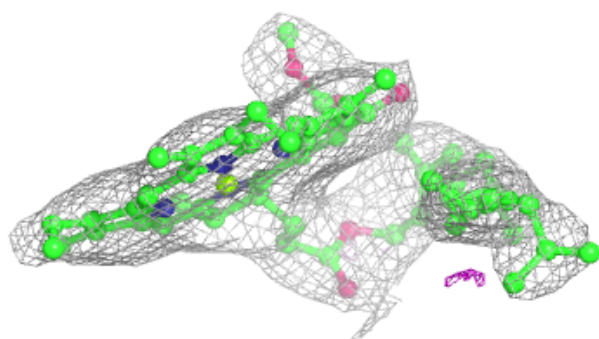
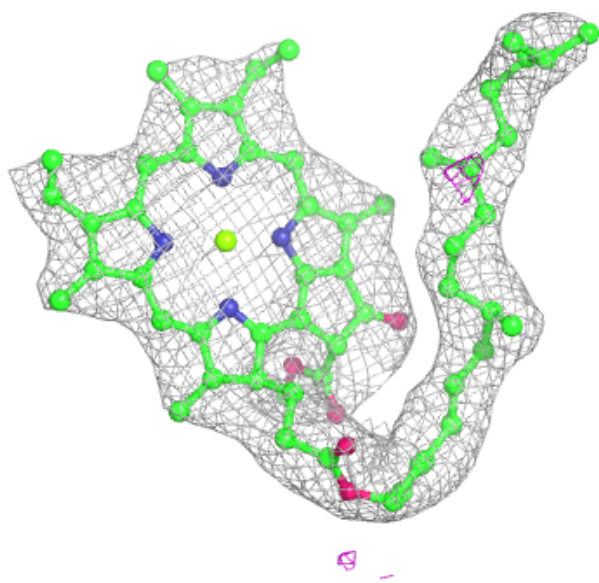
Electron density around CLA A 843:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



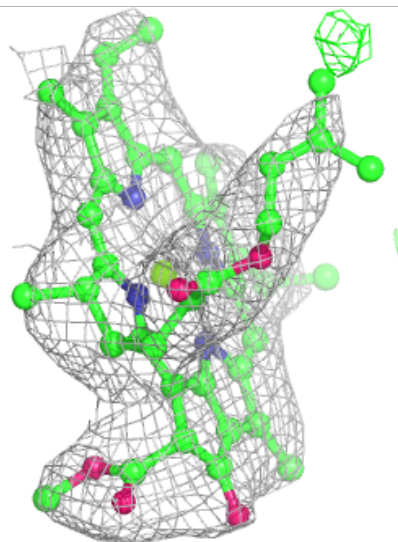
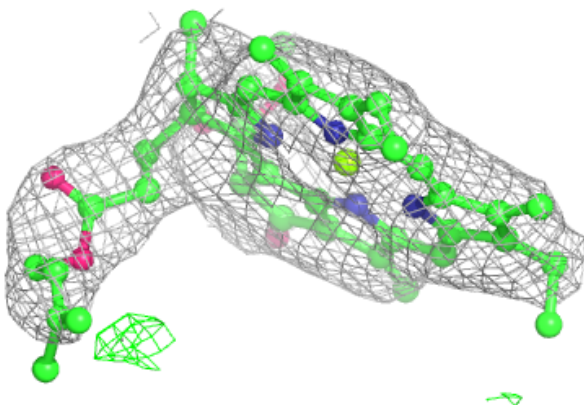
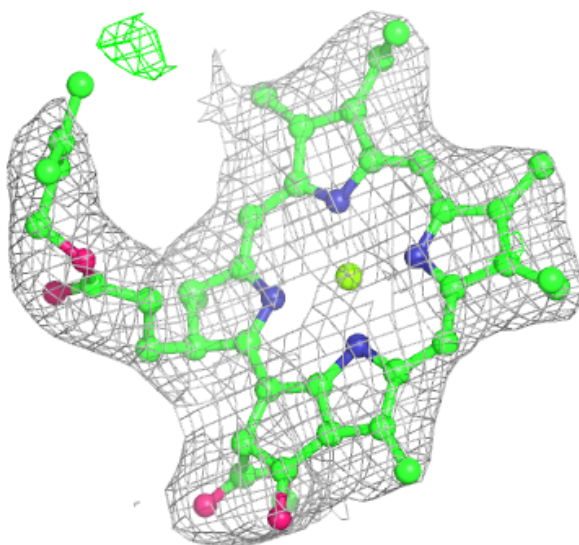
Electron density around CLA a 826:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



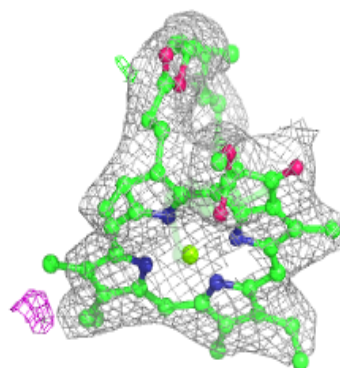
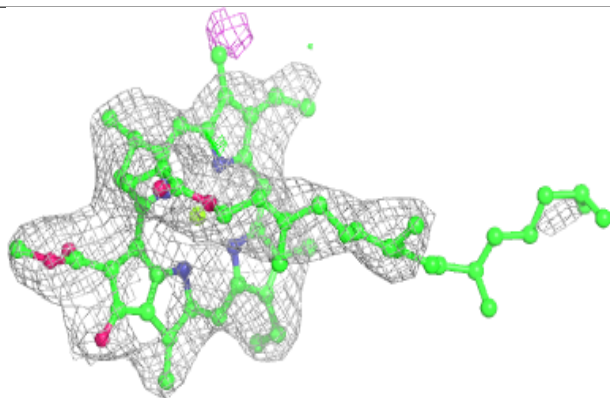
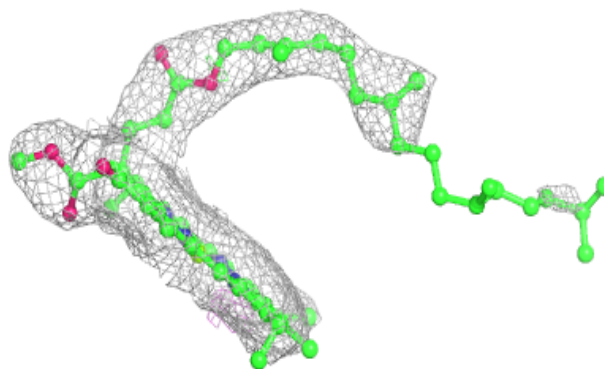
Electron density around CLA a 832:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



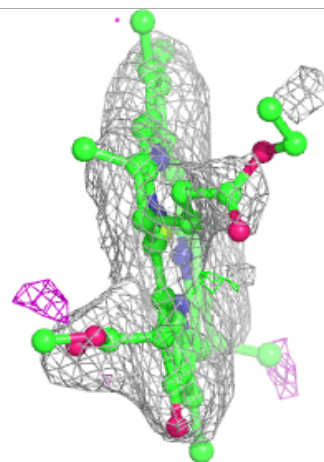
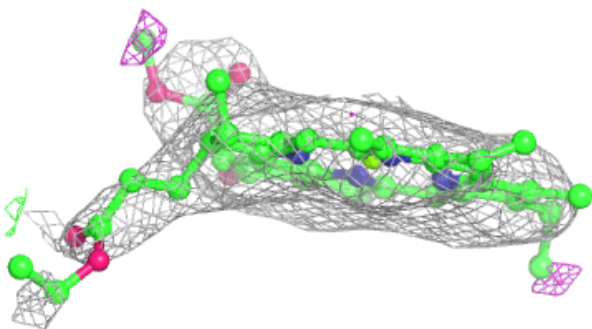
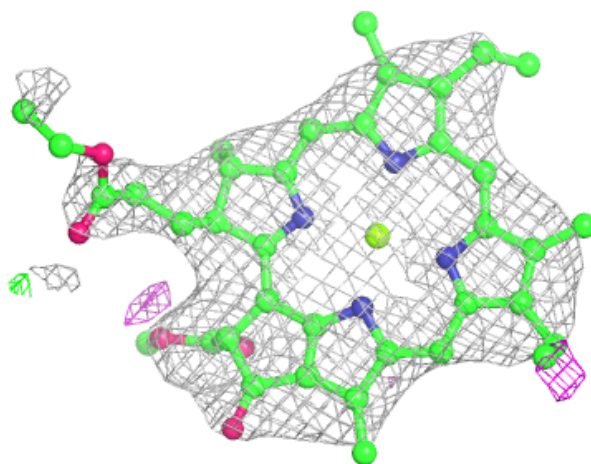
Electron density around CLA a 833:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



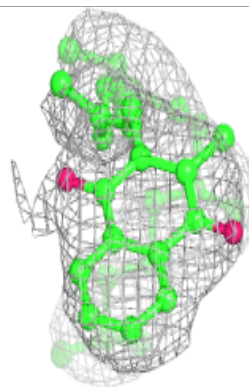
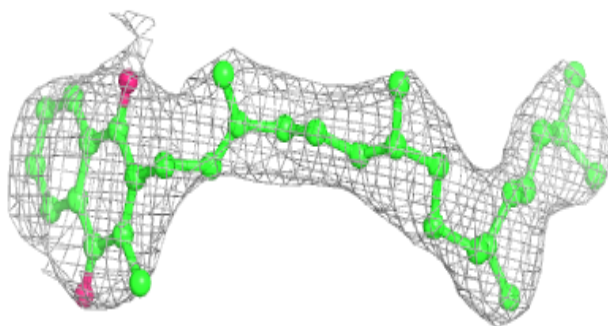
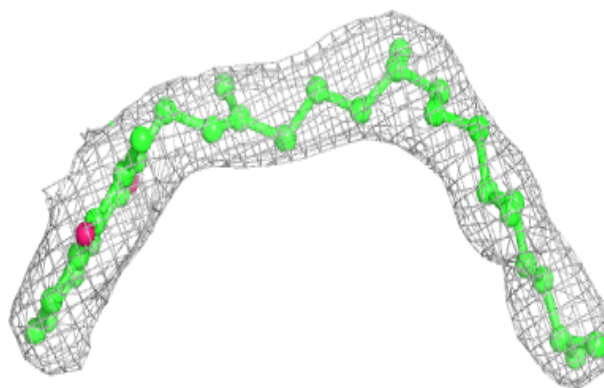
Electron density around CLA 9 614:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

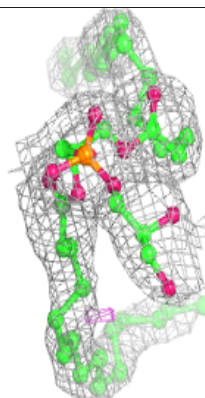
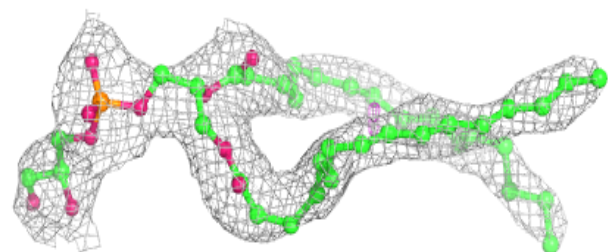
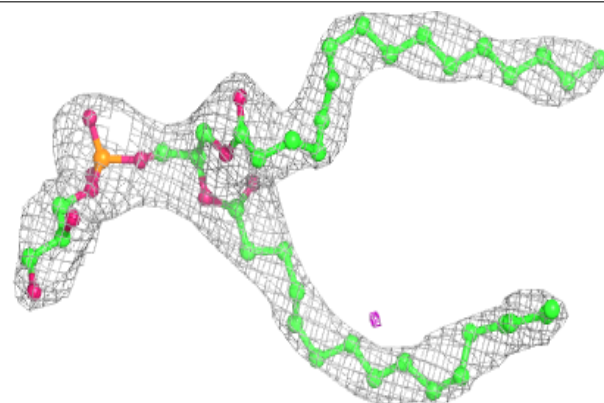


Electron density around PQN B 842:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

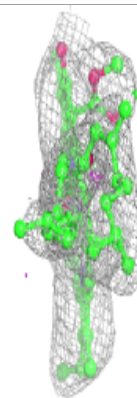
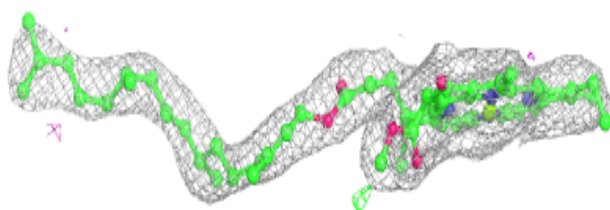
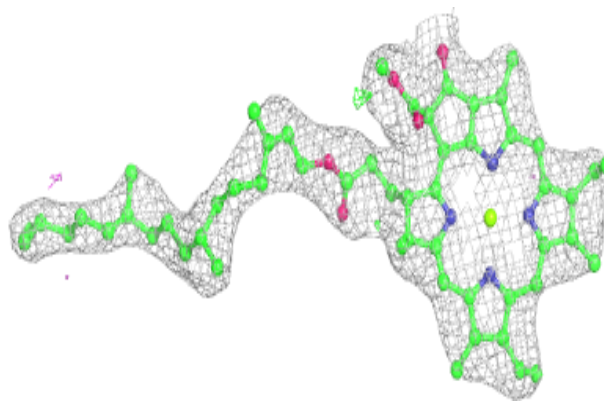
**Electron density around LHG A 846:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

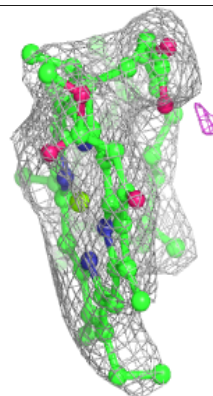
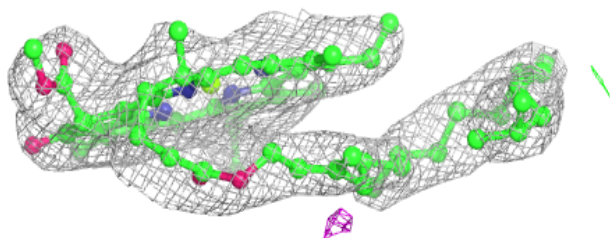
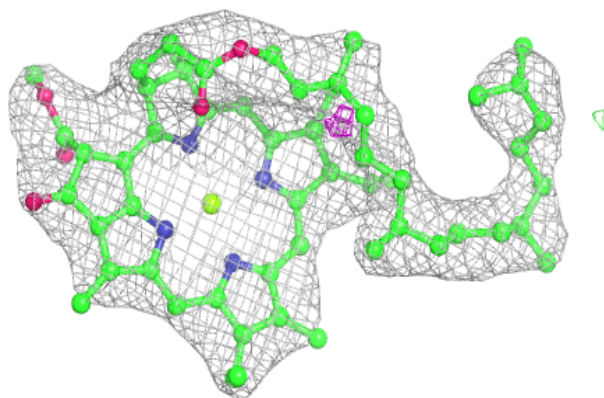


Electron density around CLA a 834:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

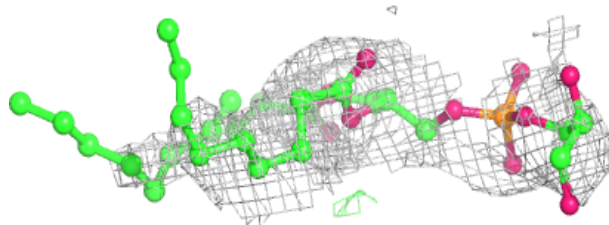
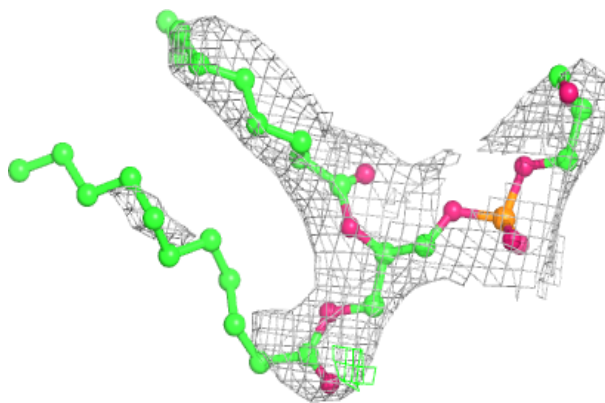
**Electron density around CLA A 820:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



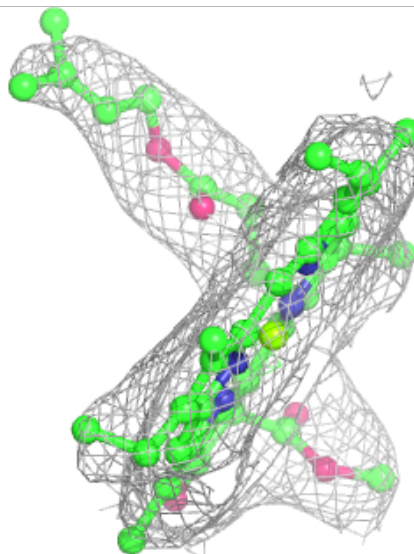
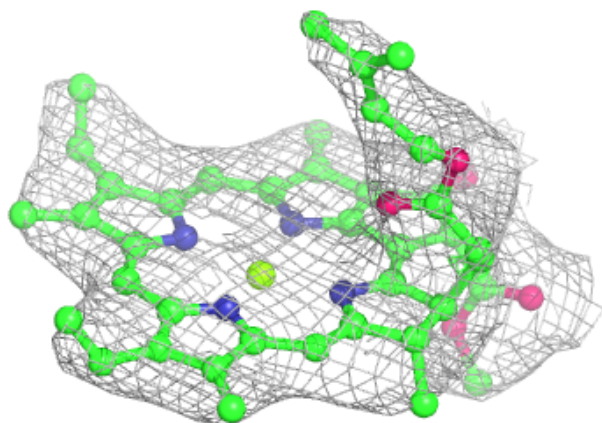
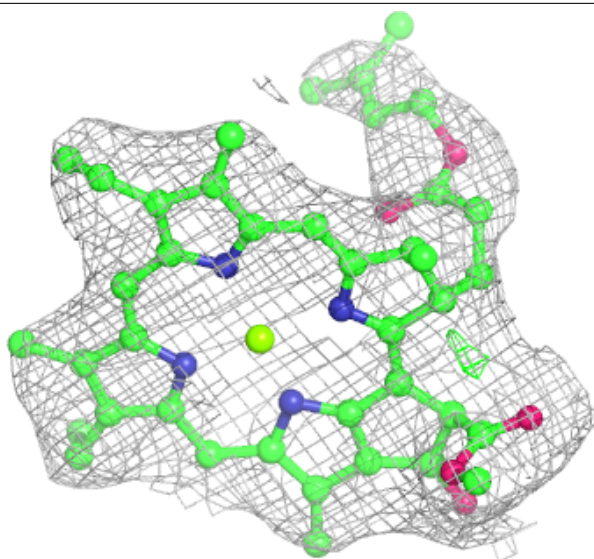
Electron density around LHG 2 618:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



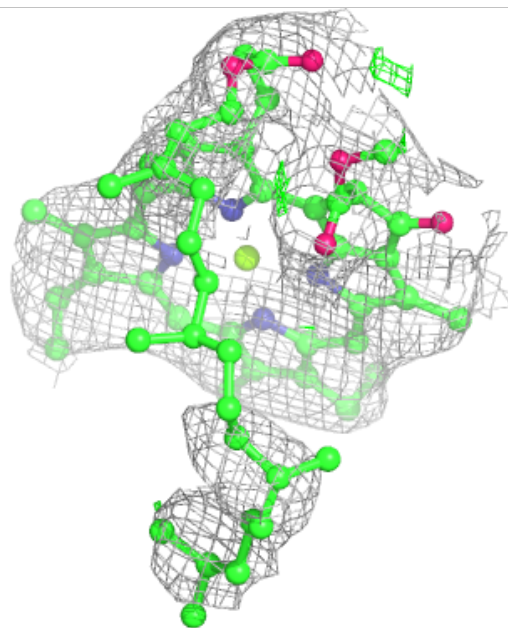
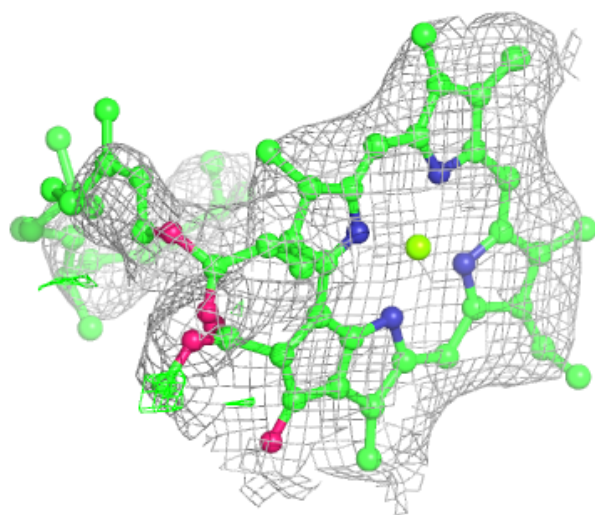
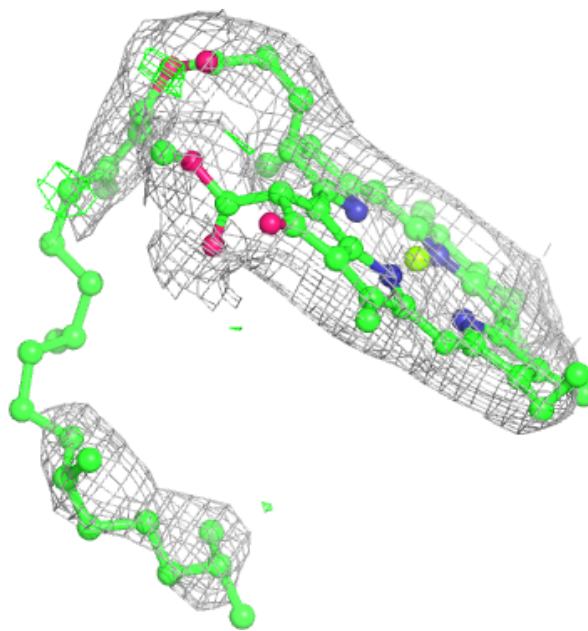
Electron density around CLA B 830:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



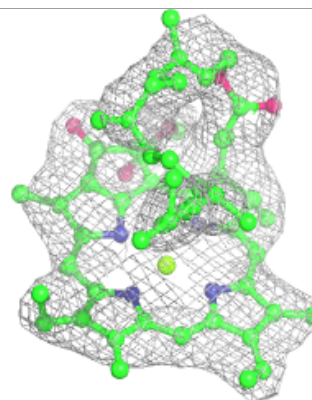
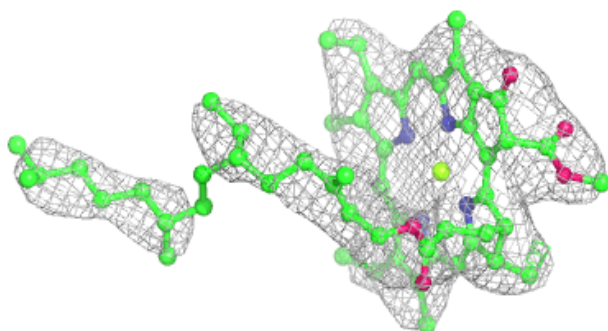
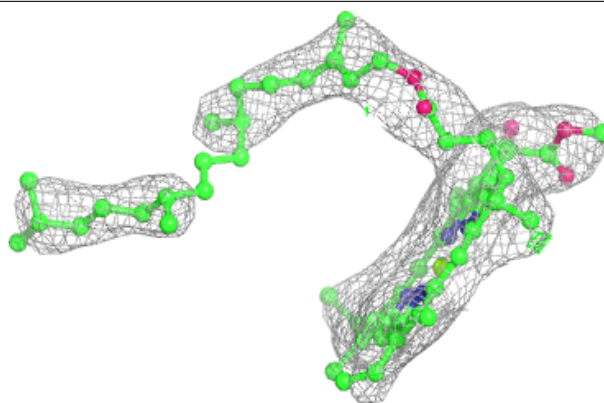
Electron density around CLA 2 603:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

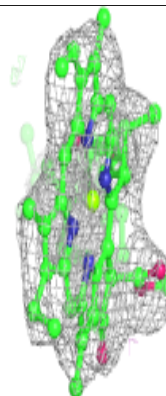
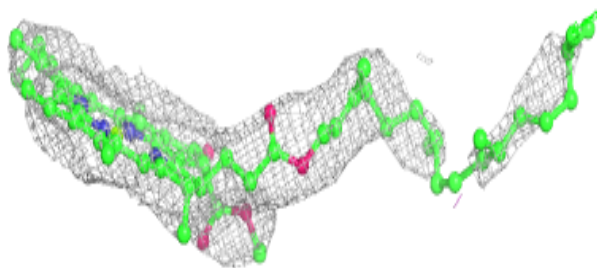
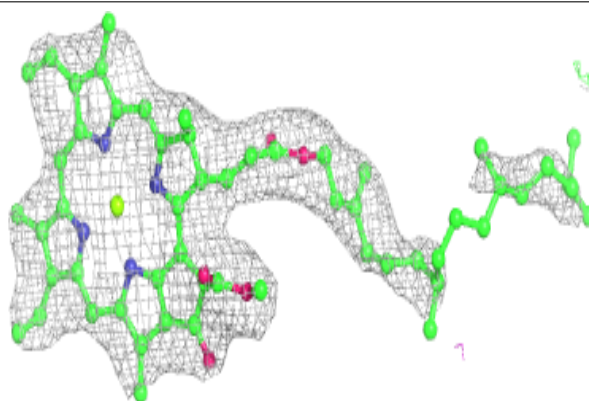


Electron density around CLA A 811:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

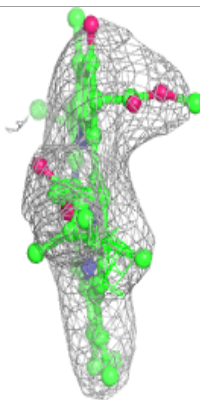
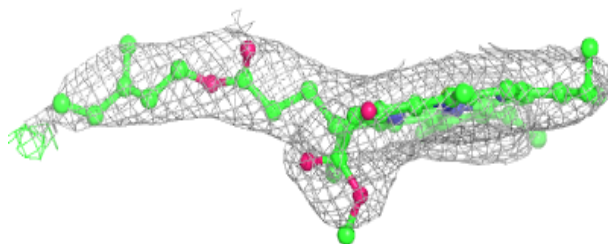
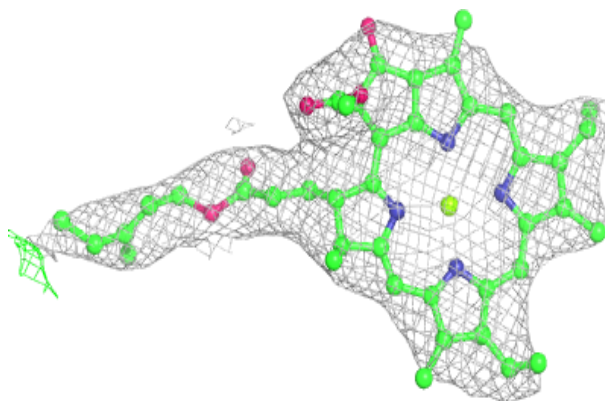
**Electron density around CLA a 842:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

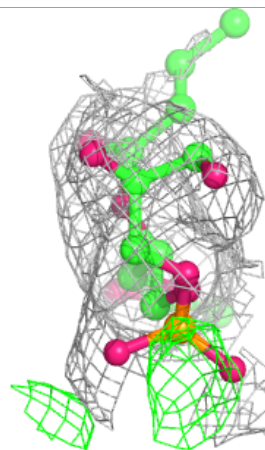
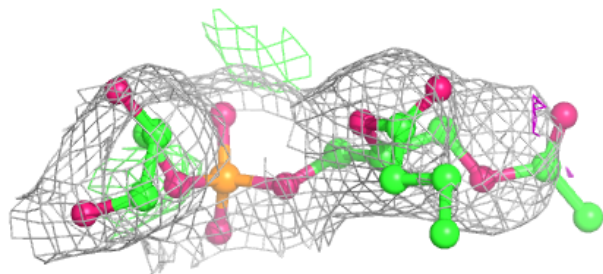
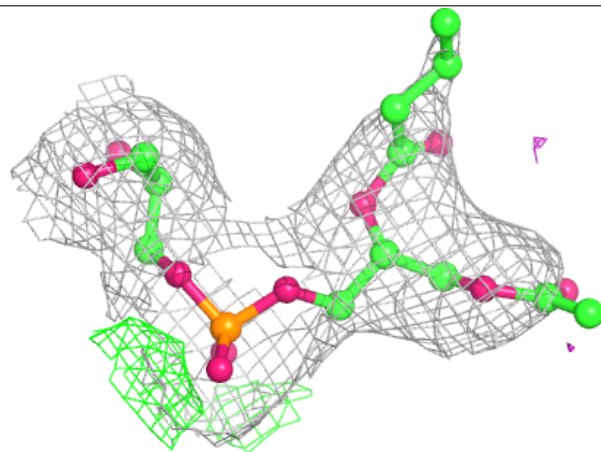


Electron density around CLA A 838:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

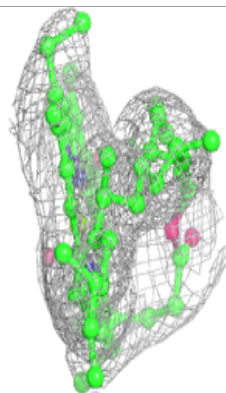
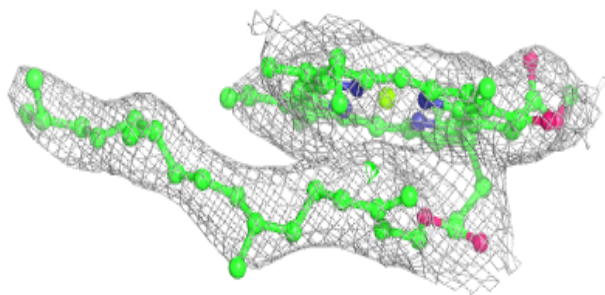
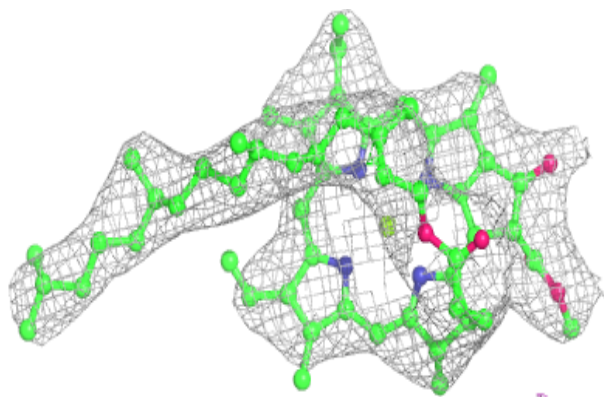
**Electron density around LHG 1 301:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



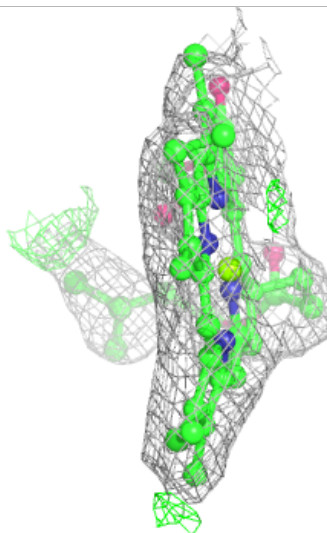
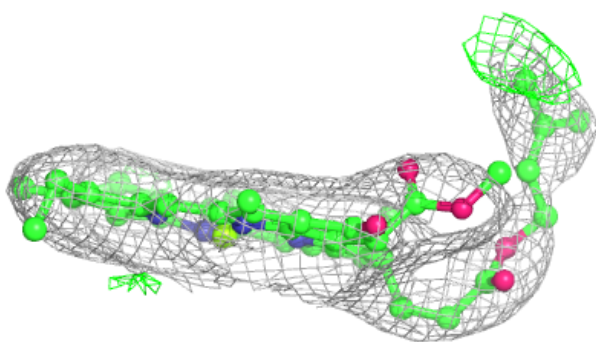
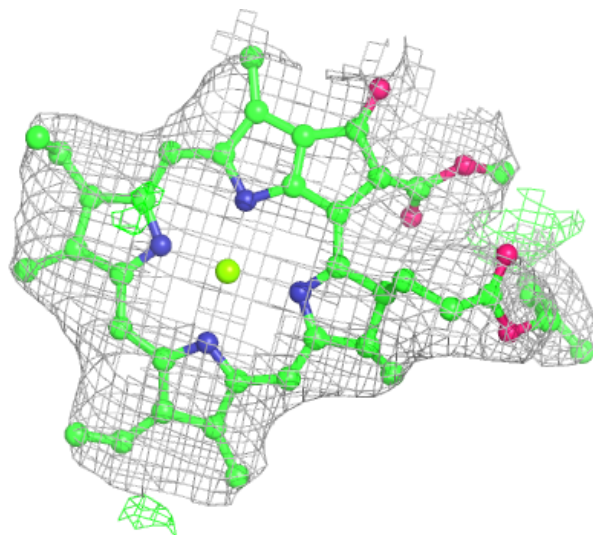
Electron density around CLA a 841:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



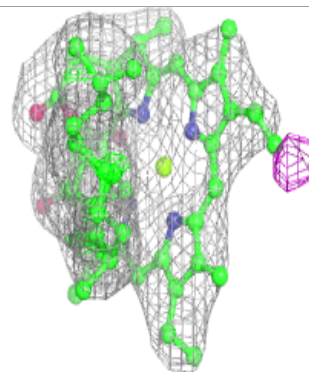
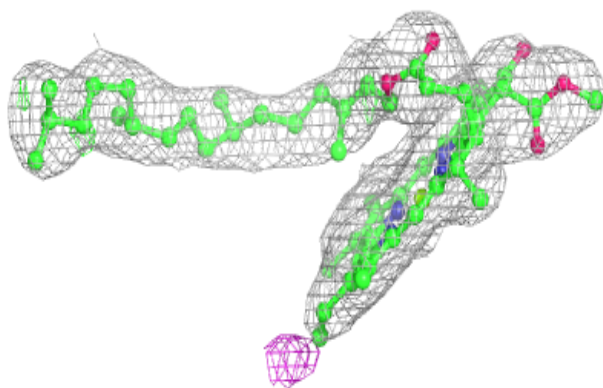
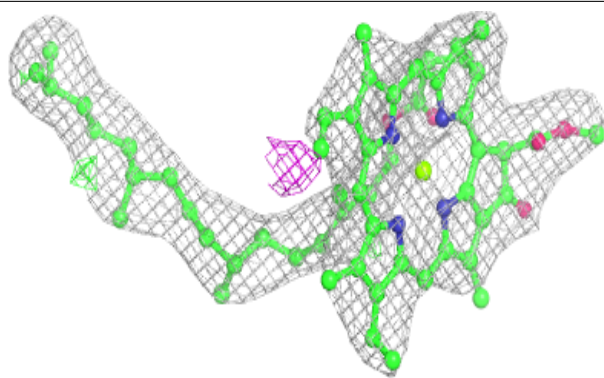
Electron density around CLA 3 303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

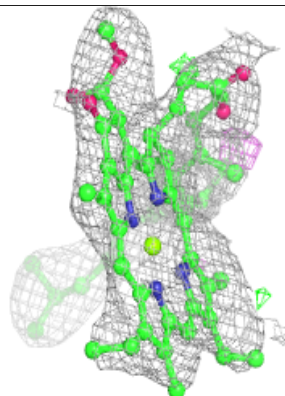
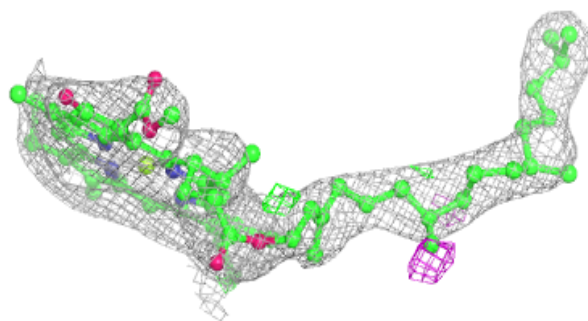
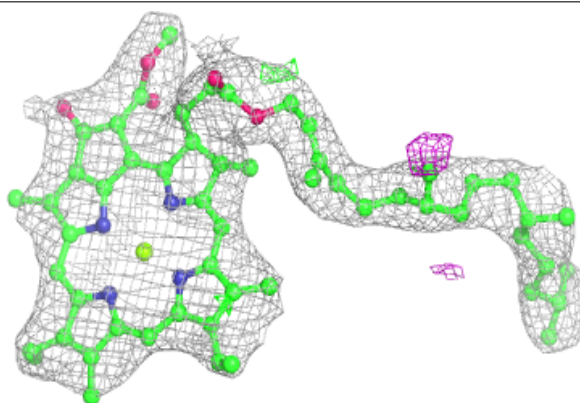


Electron density around CLA a 843:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

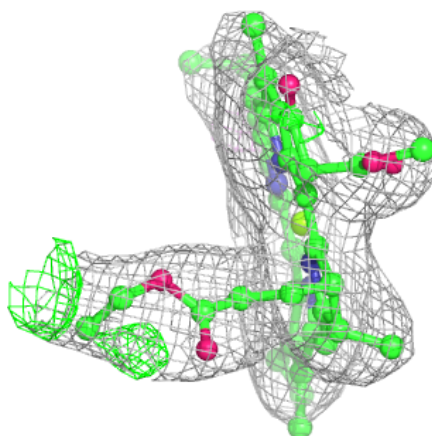
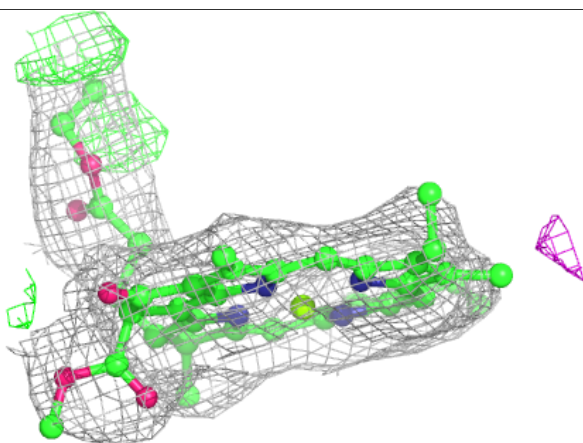
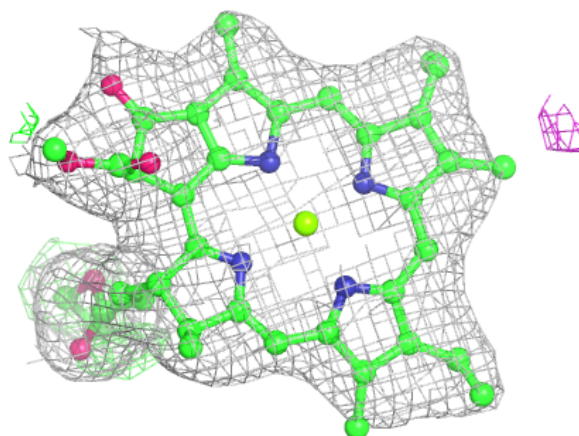
**Electron density around CLA a 802:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



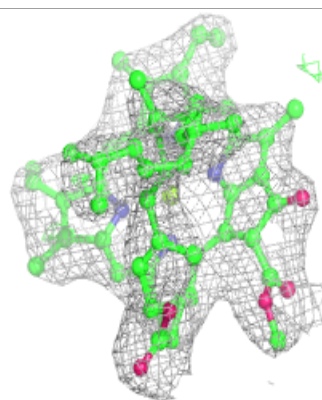
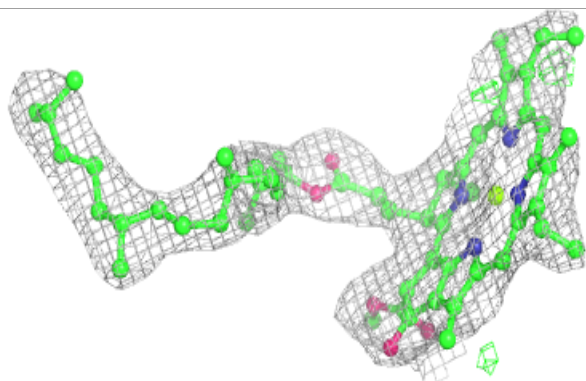
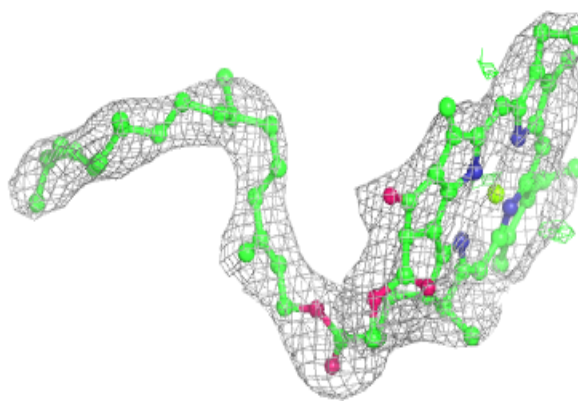
Electron density around CLA B 838:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



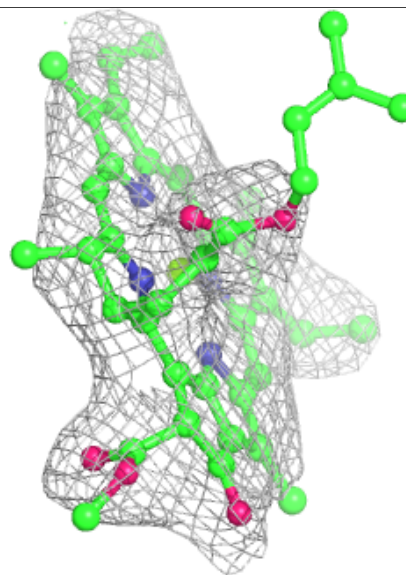
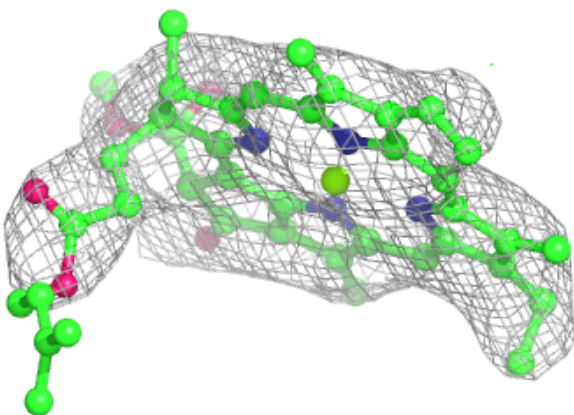
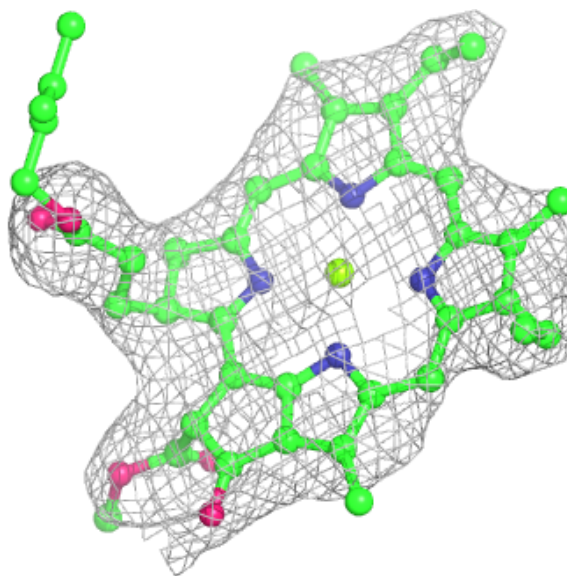
Electron density around CLA b 802:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



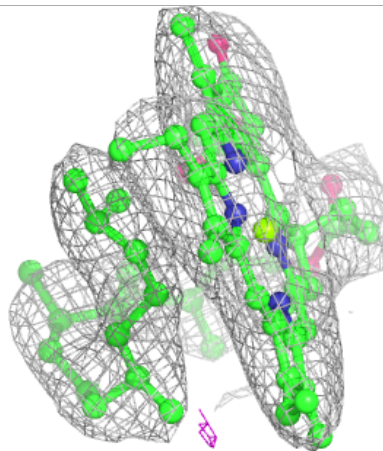
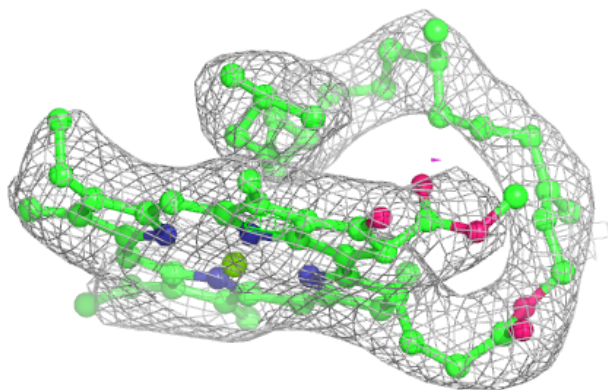
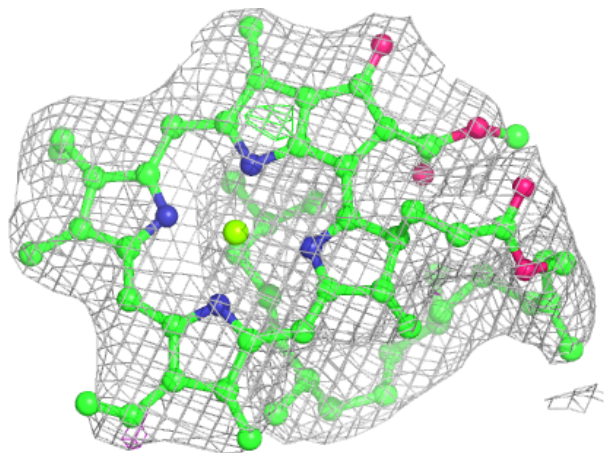
Electron density around CLA B 820:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



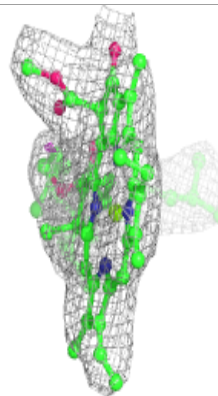
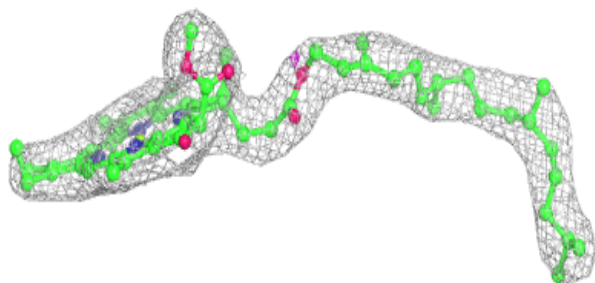
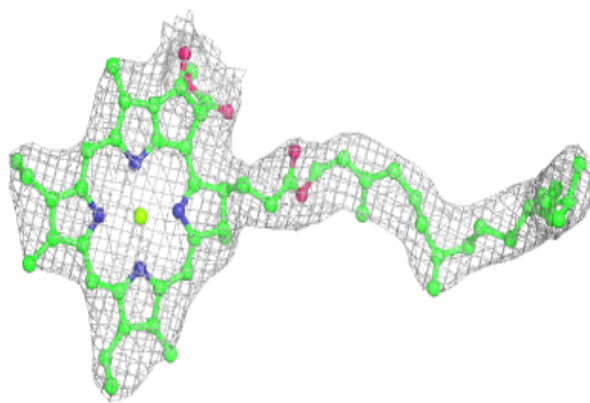
Electron density around CLA b 806:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



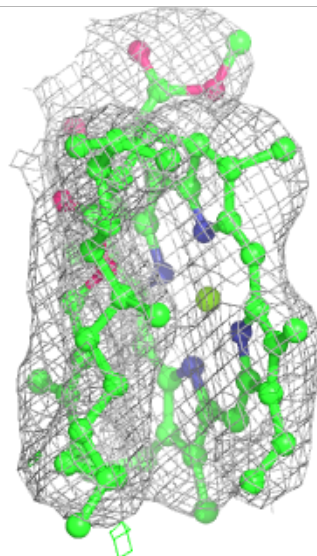
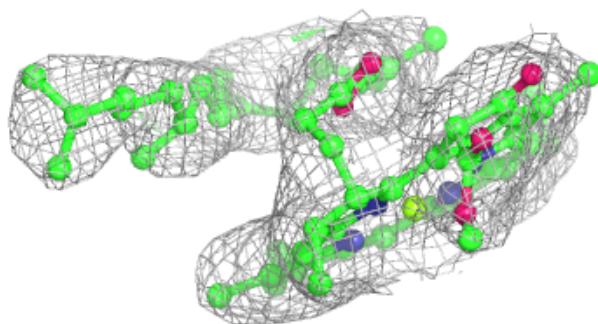
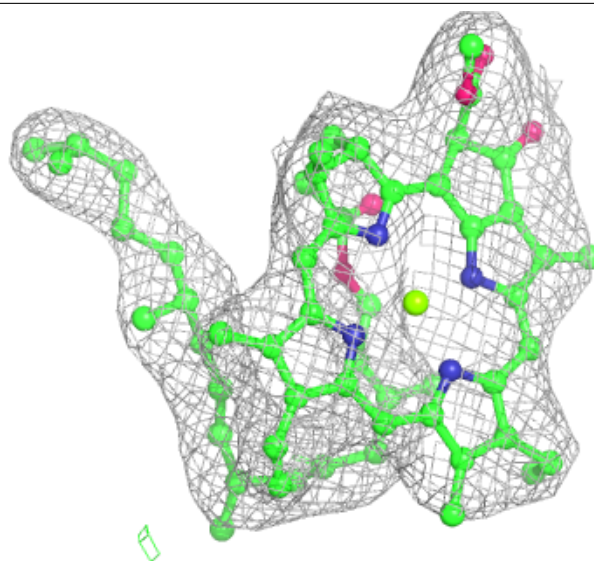
Electron density around CLA a 806:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



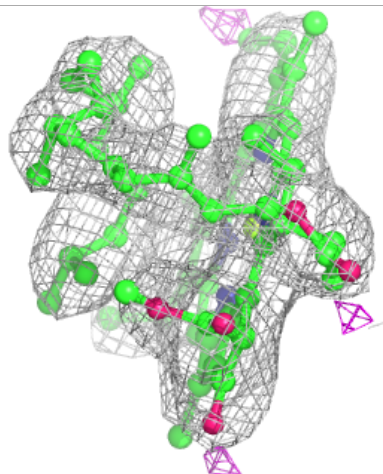
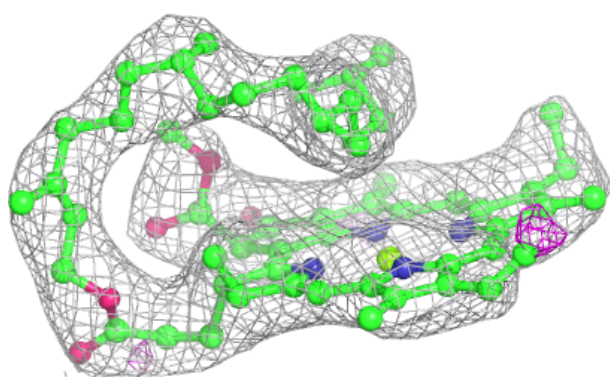
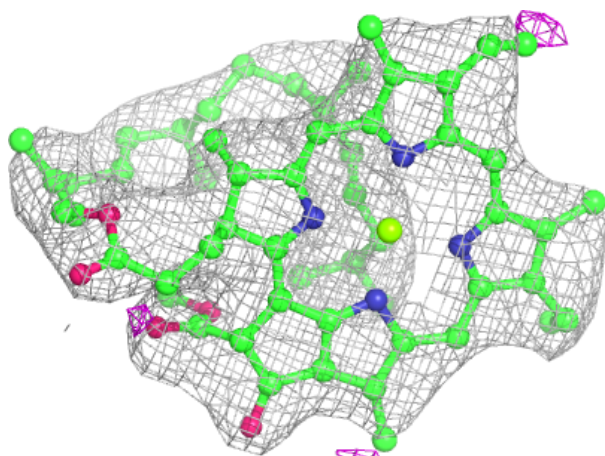
Electron density around CLA b 808:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



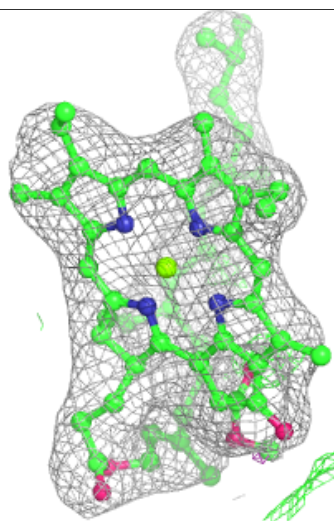
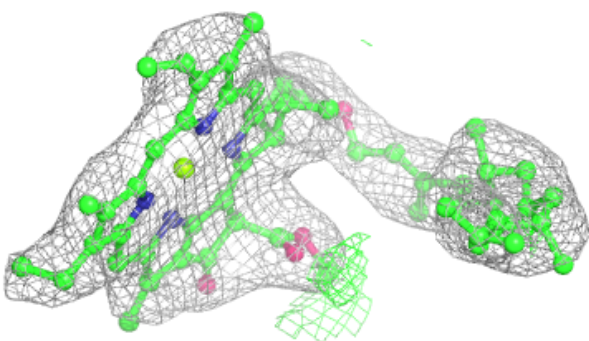
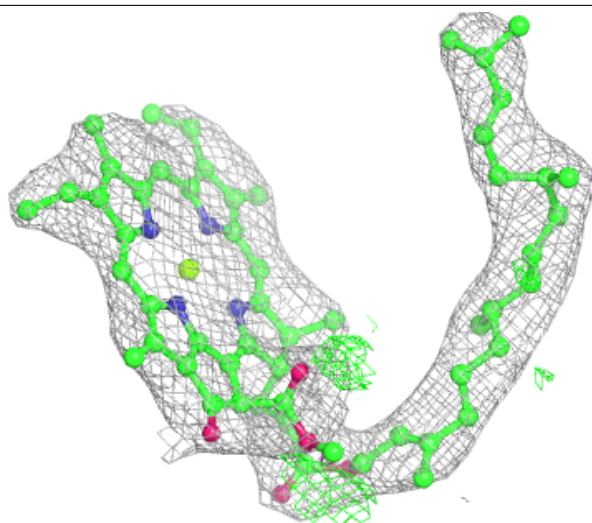
Electron density around CLA a 807:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



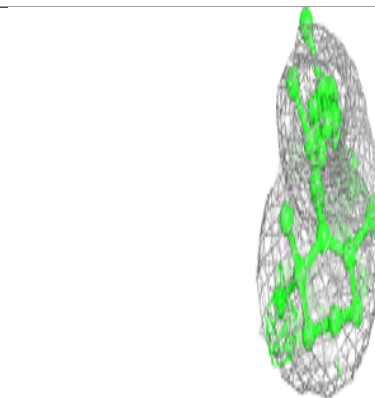
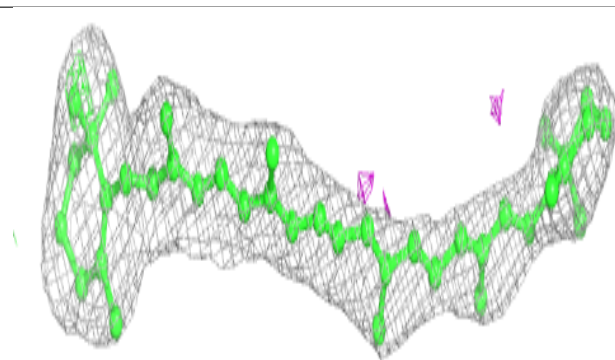
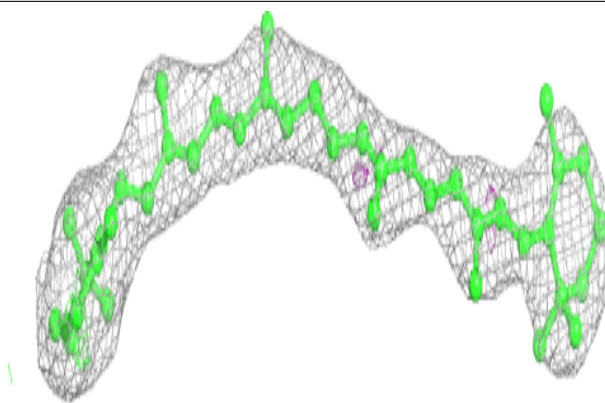
Electron density around CLA b 810:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

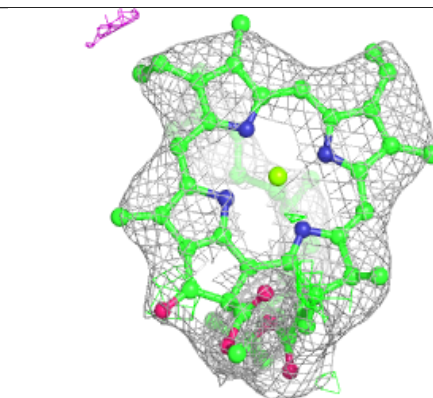
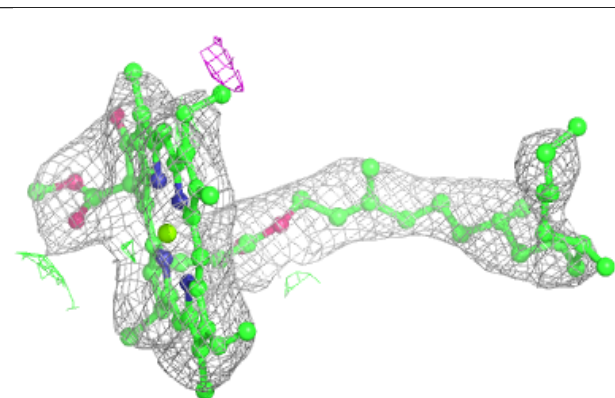
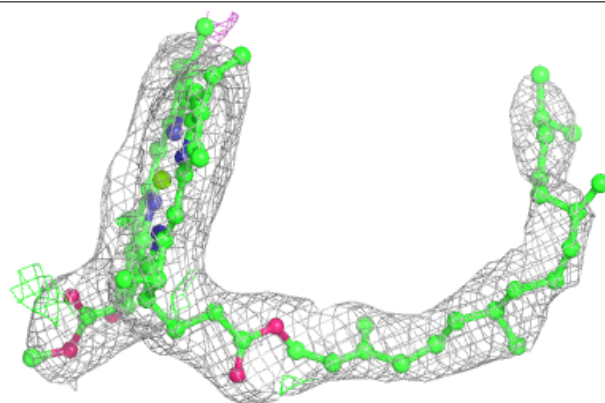


Electron density around BCR B 801:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

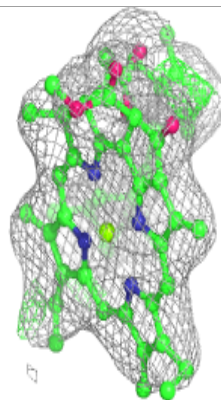
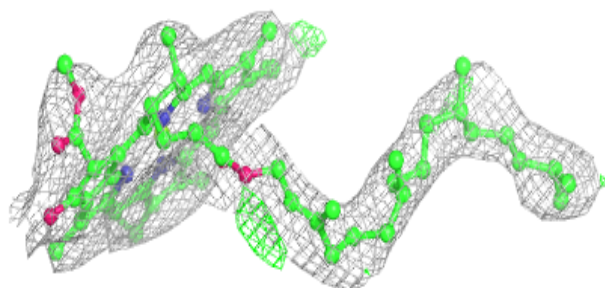
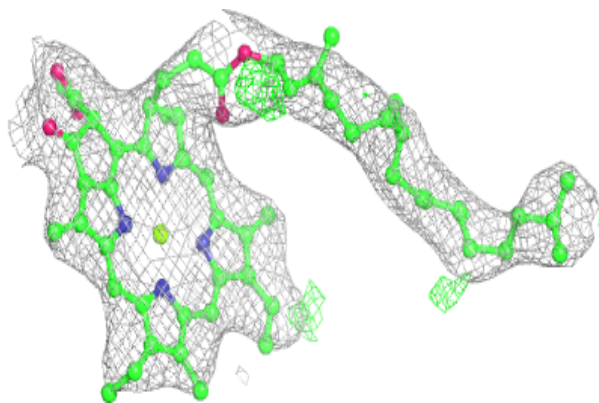
**Electron density around CLA a 808:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

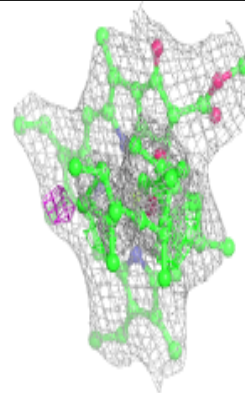
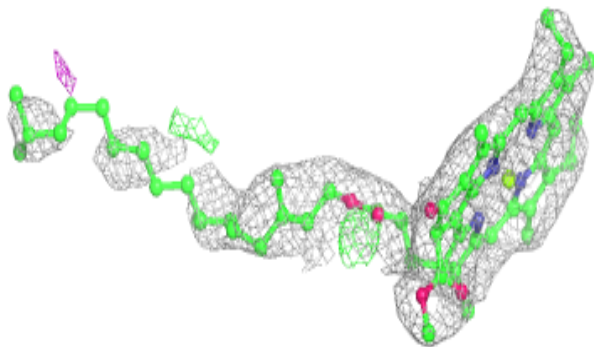
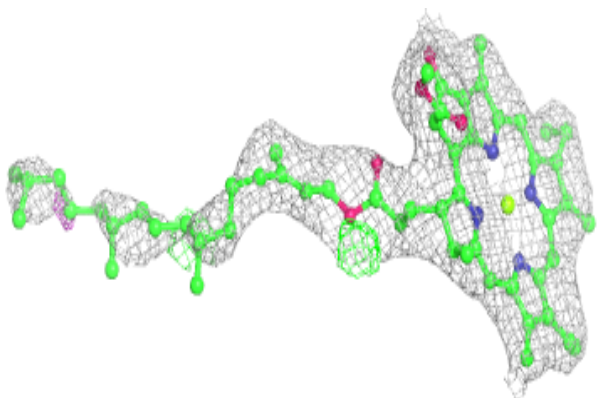


Electron density around CLA a 809:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

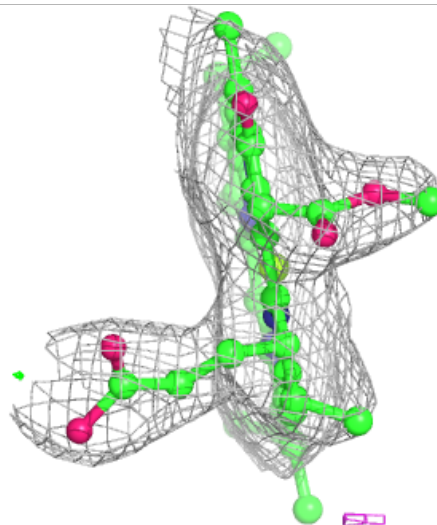
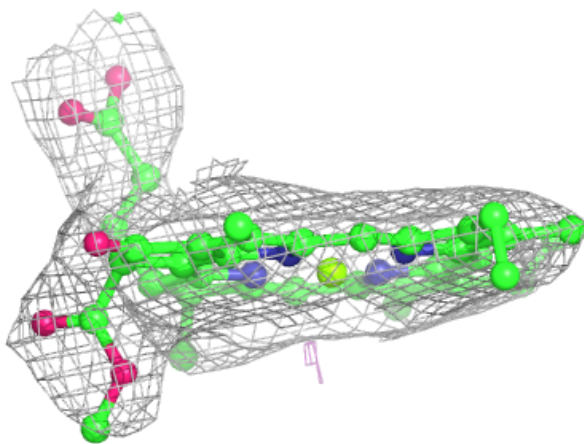
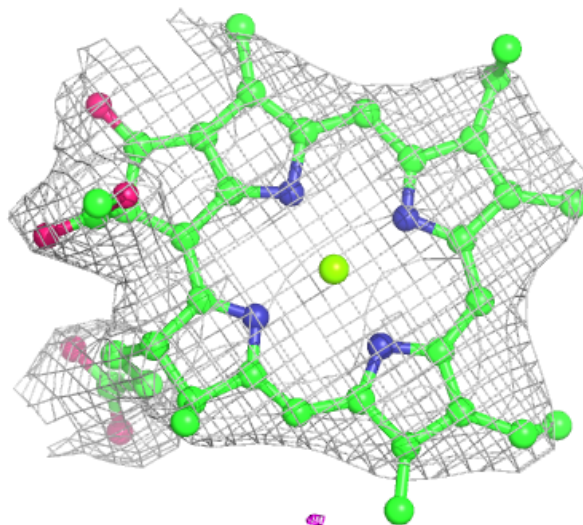
**Electron density around CLA a 810:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



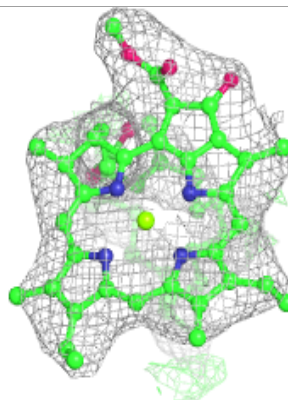
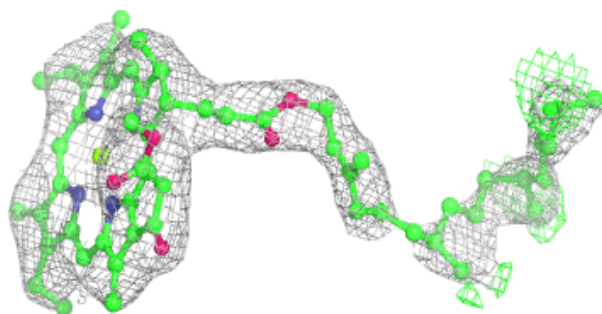
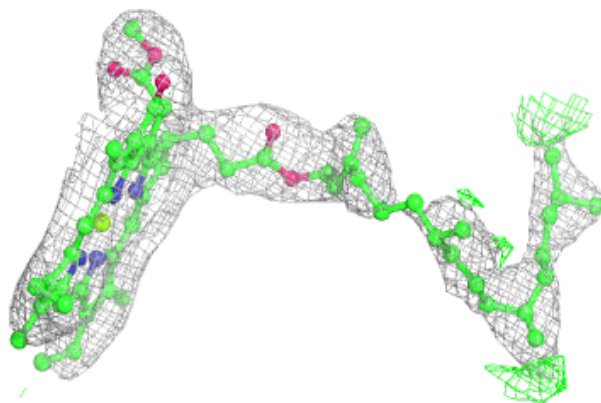
Electron density around CLA A 815:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



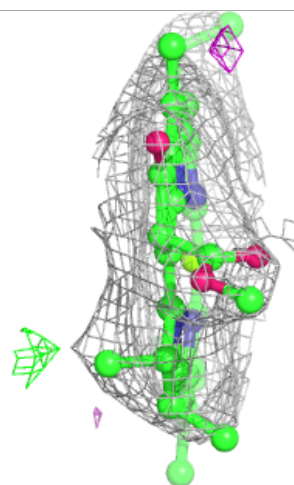
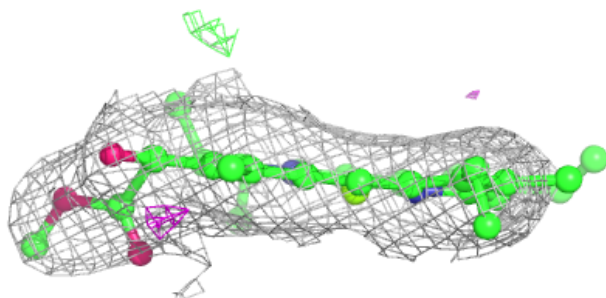
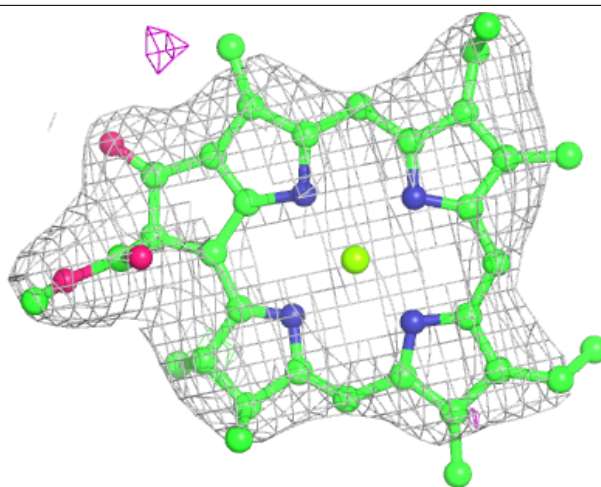
Electron density around CLA A 840:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



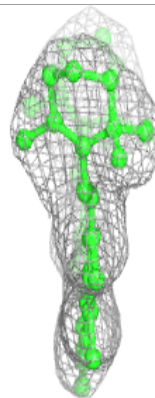
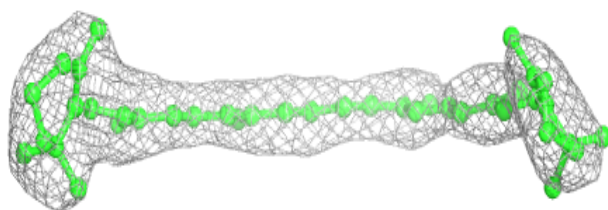
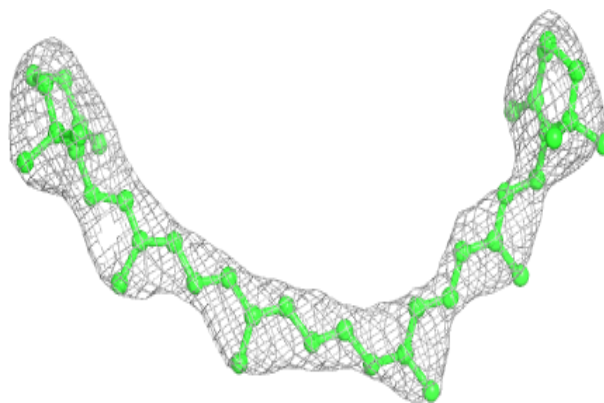
Electron density around CLA 1 311:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



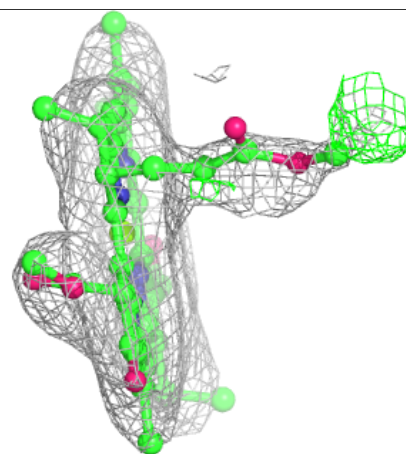
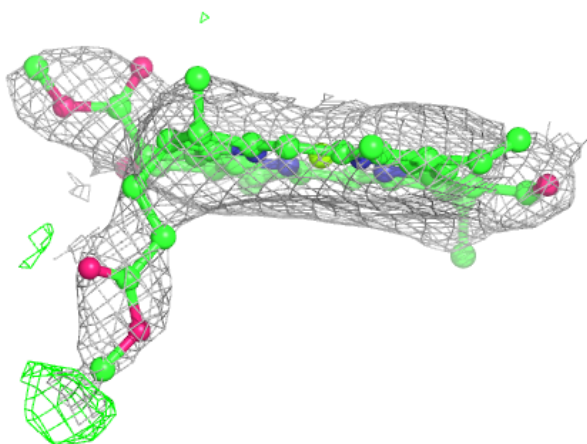
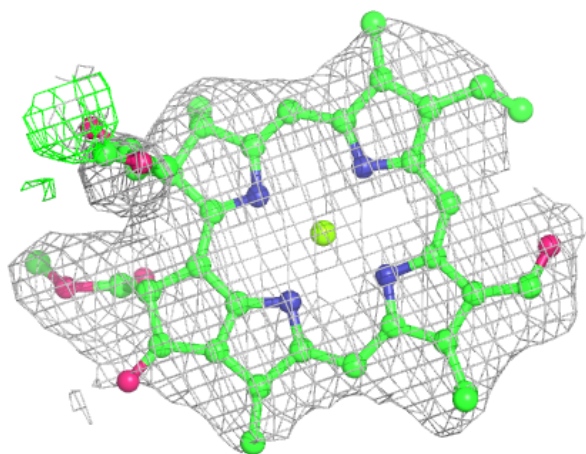
Electron density around BCR F 305:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



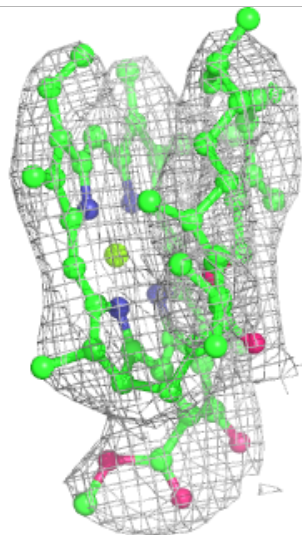
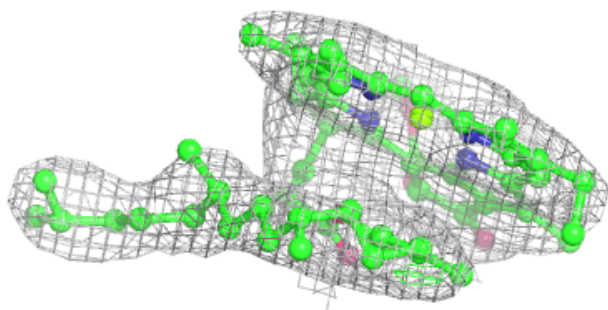
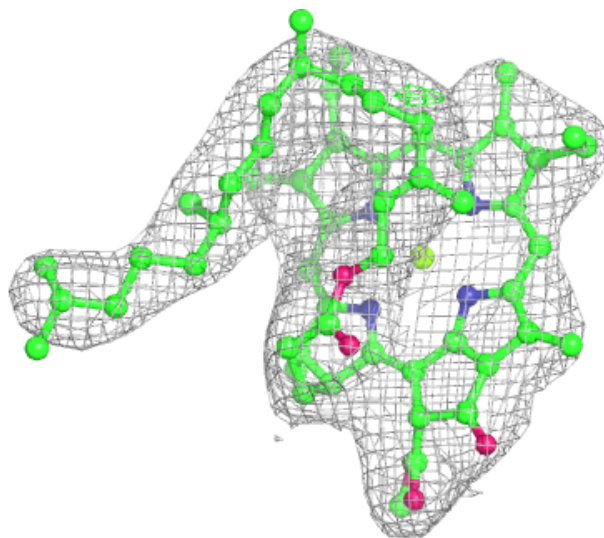
Electron density around CHL 3 307:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



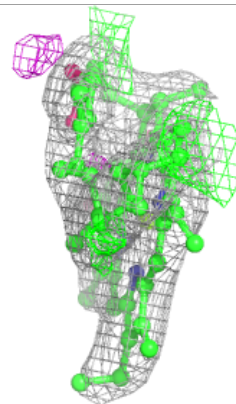
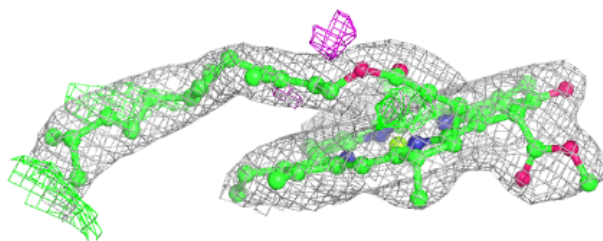
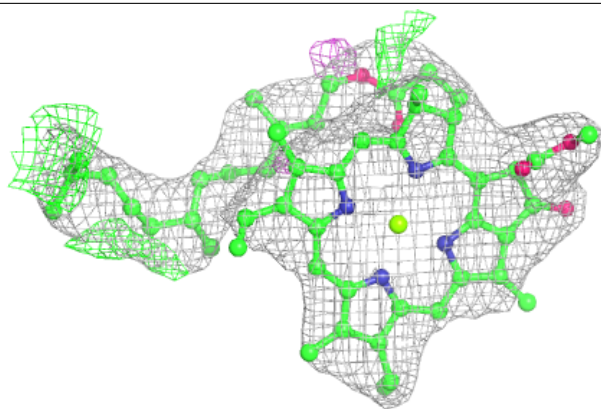
Electron density around CLA B 808:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



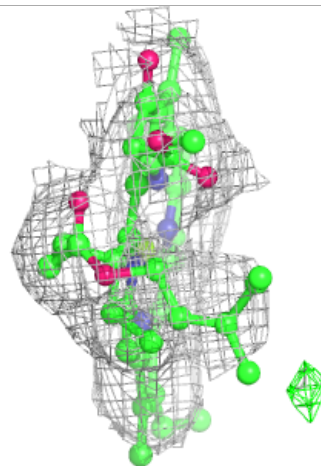
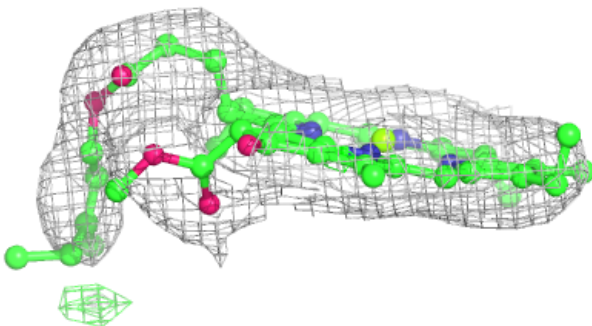
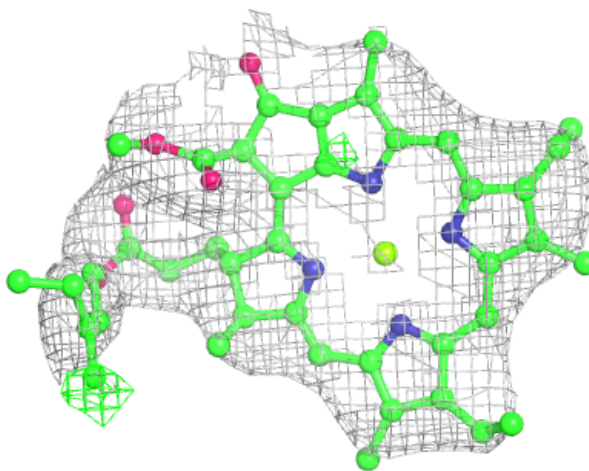
Electron density around CLA b 818:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



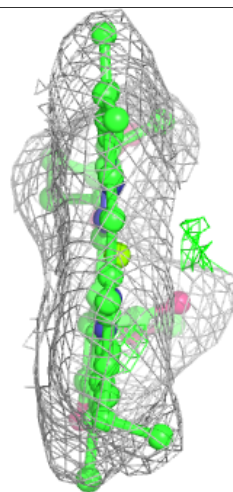
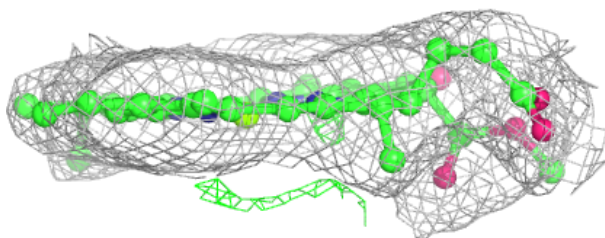
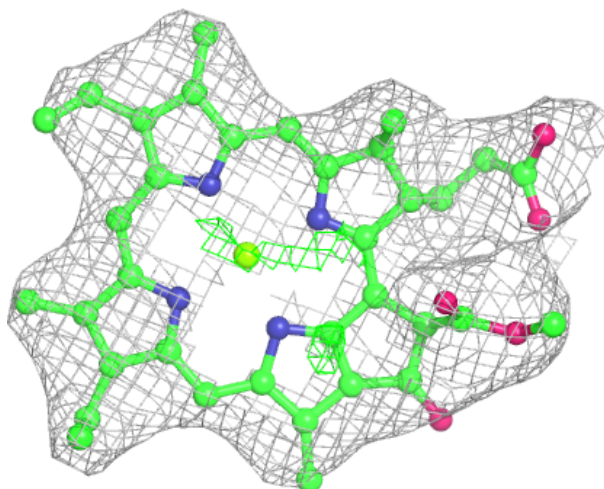
Electron density around CLA 7 603:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



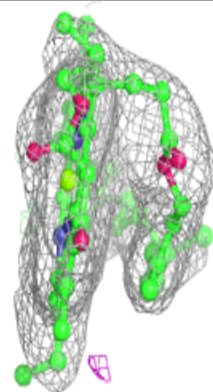
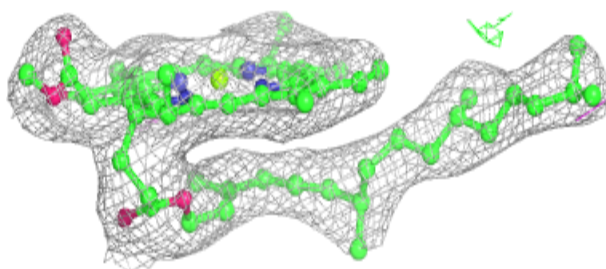
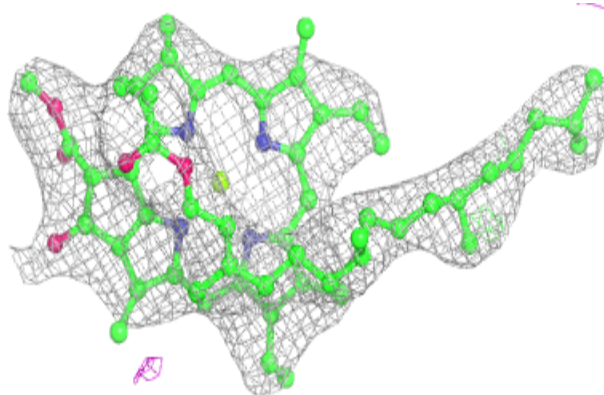
Electron density around CLA F 303:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

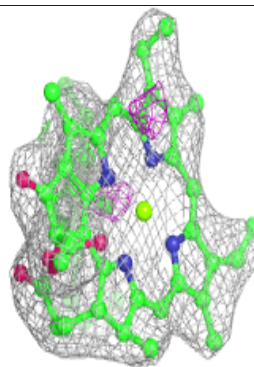
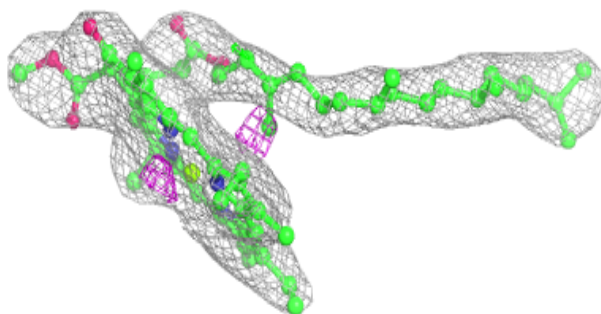
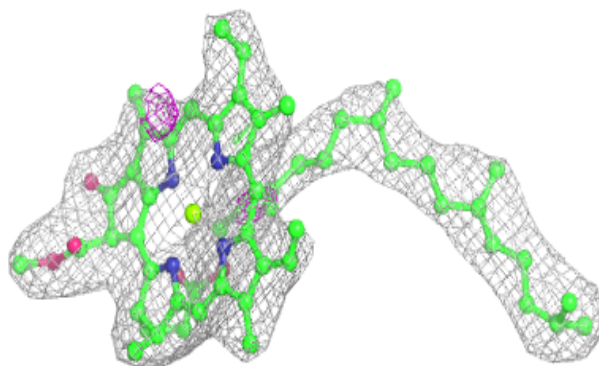


Electron density around CLA A 841:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

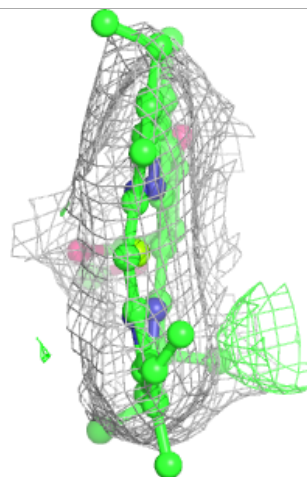
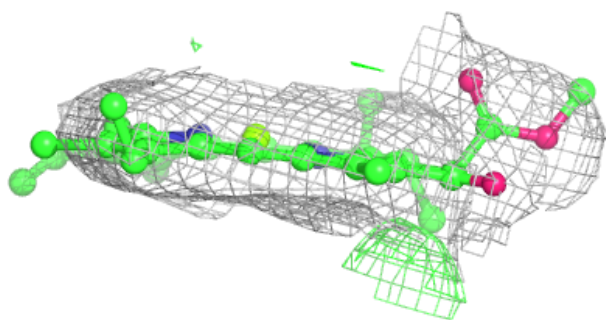
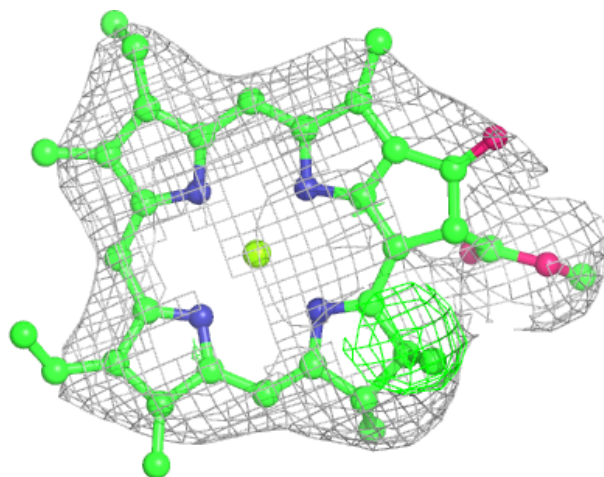
**Electron density around CLA A 842:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



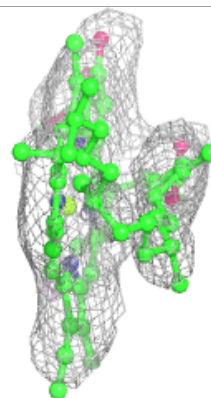
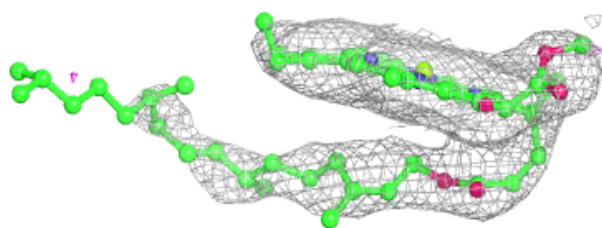
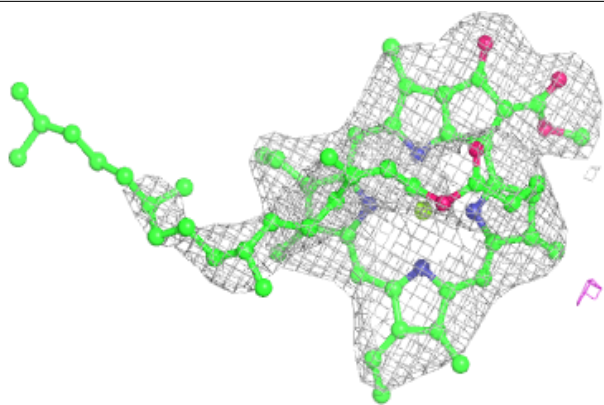
Electron density around CLA 7 610:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

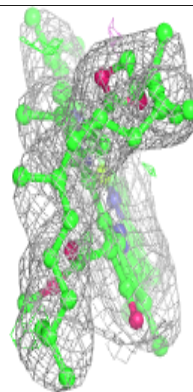
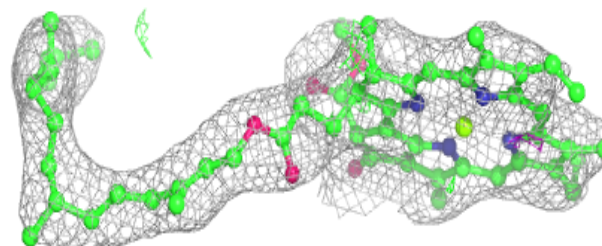
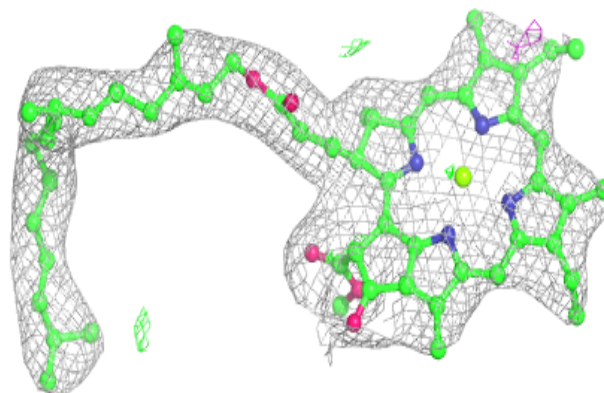


Electron density around CLA a 818:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

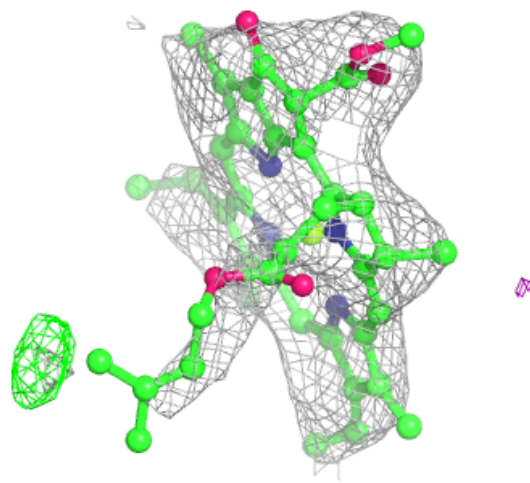
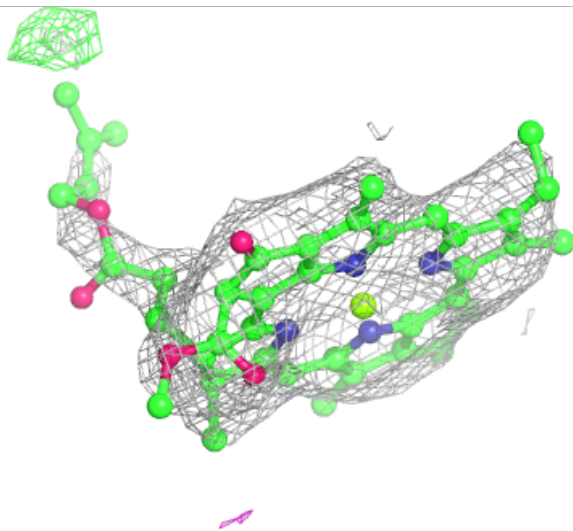
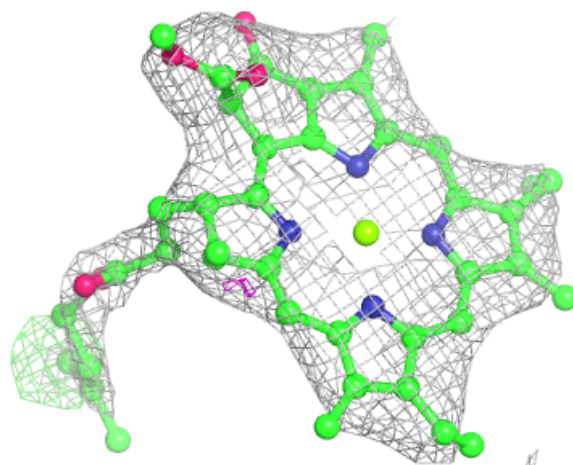
**Electron density around CLA B 826:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



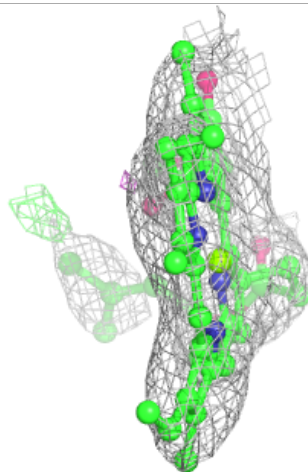
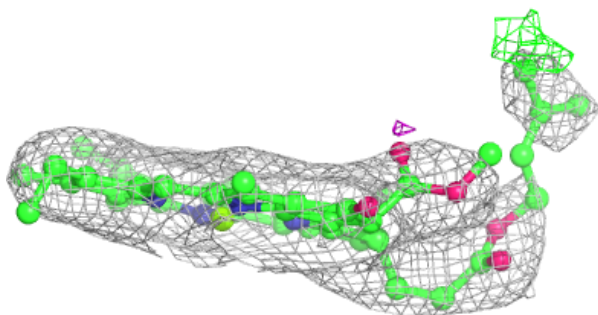
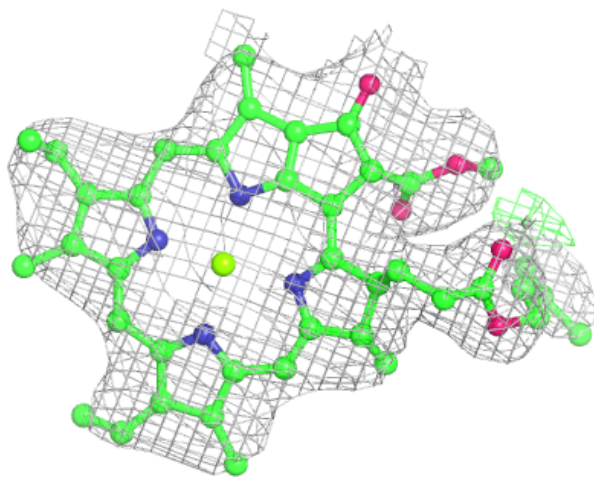
Electron density around CLA A 816:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



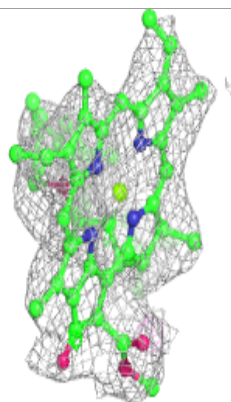
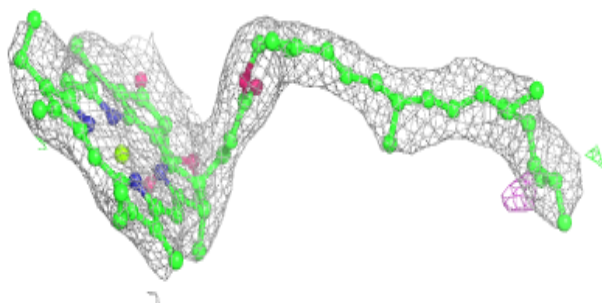
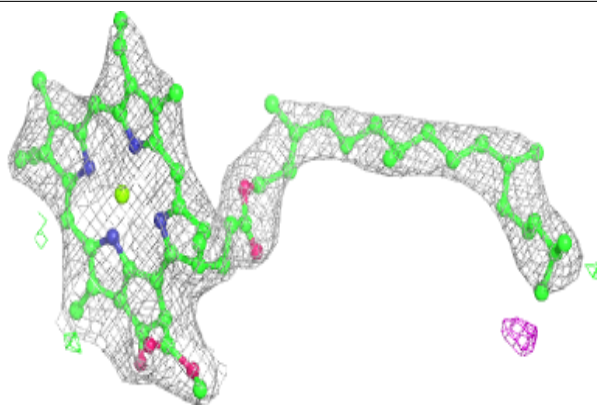
Electron density around CLA 8 302:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

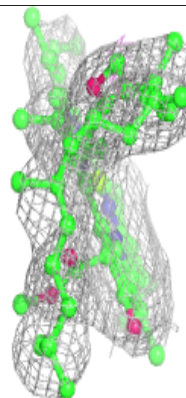
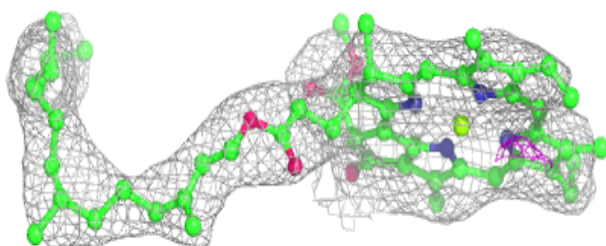
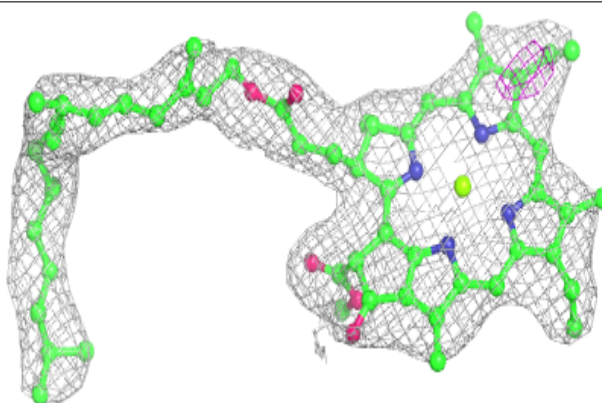


Electron density around CLA a 822:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

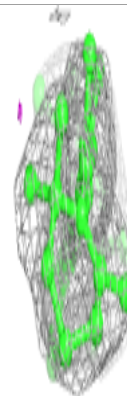
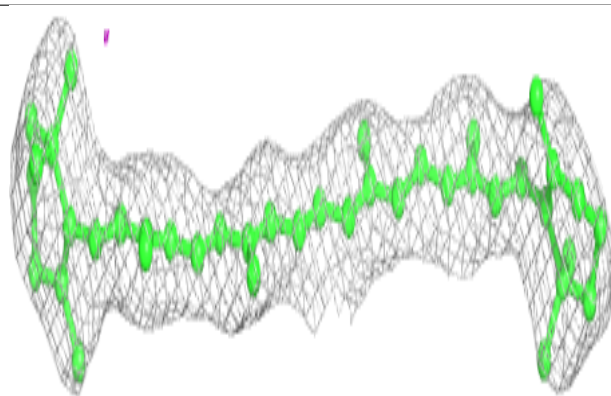
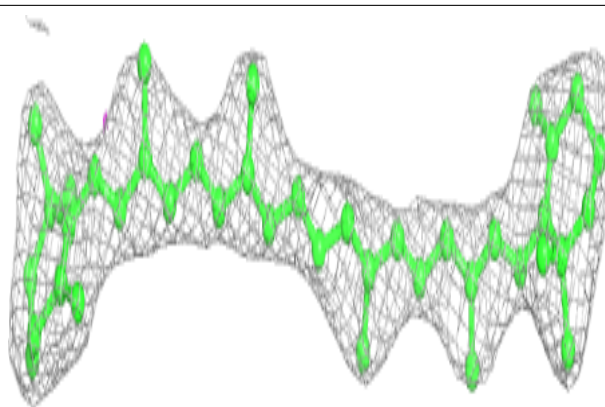
**Electron density around CLA b 826:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



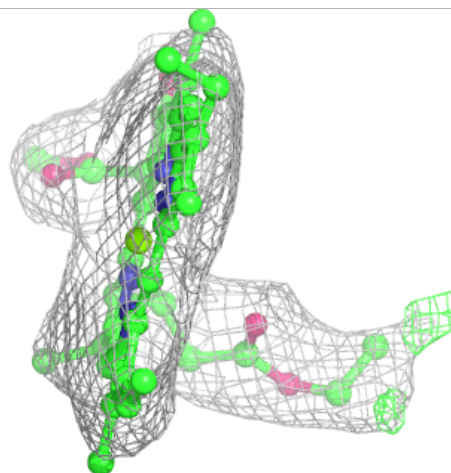
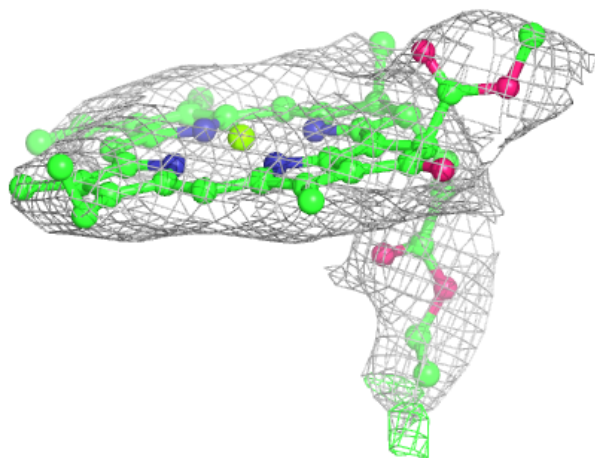
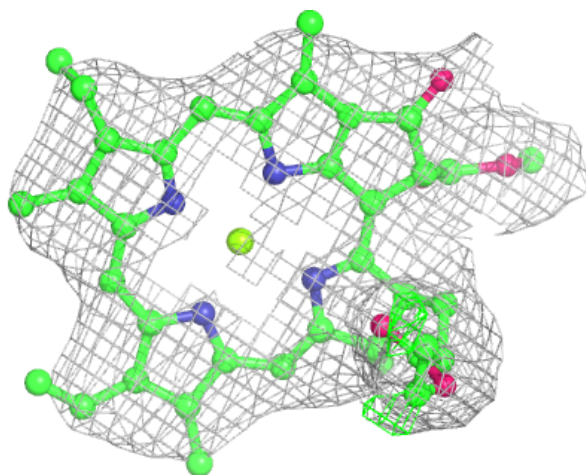
Electron density around BCR a 851:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



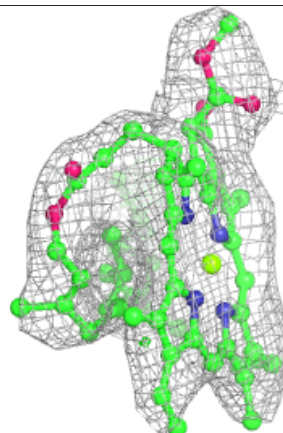
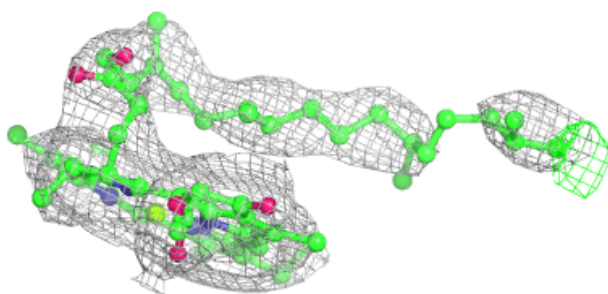
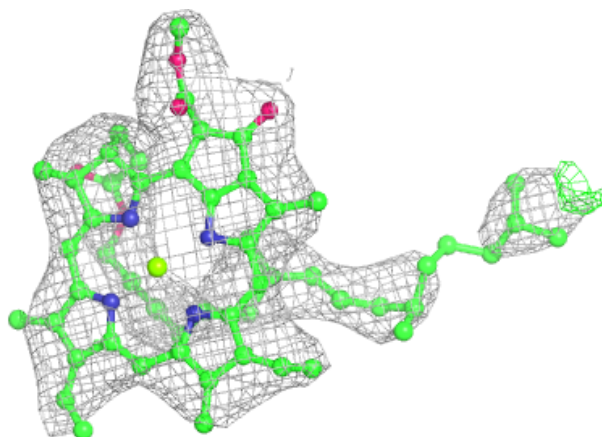
Electron density around CLA 8 305:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

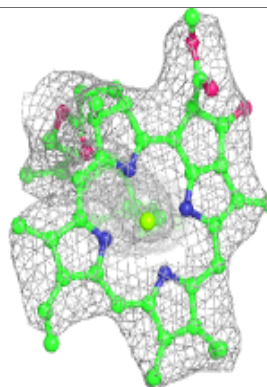
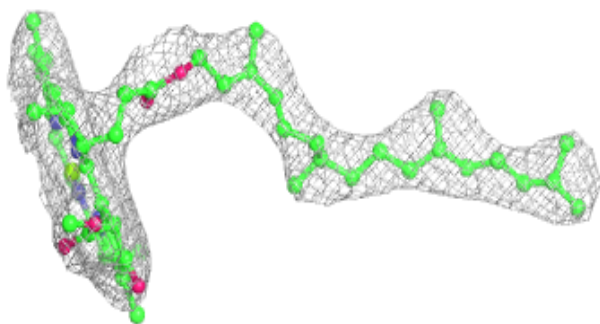
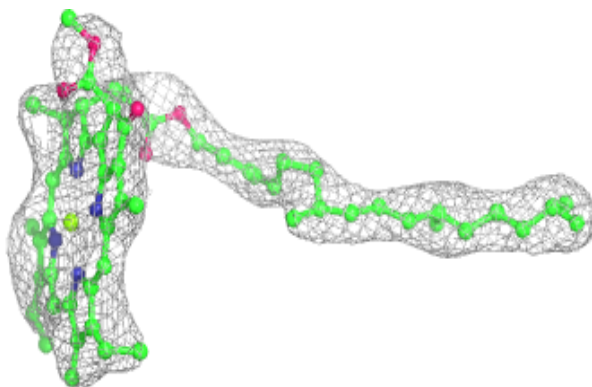


Electron density around CLA b 827:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

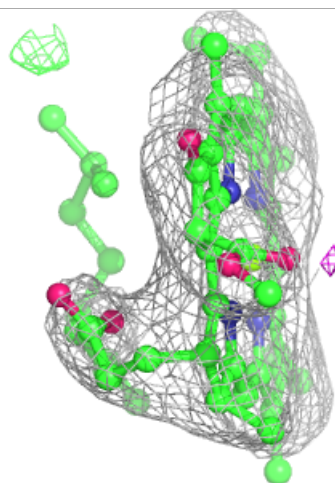
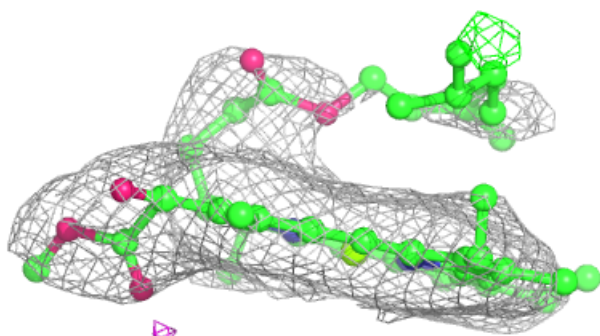
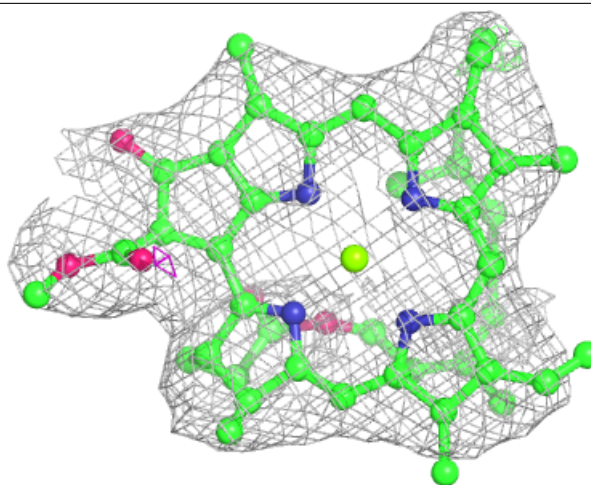
**Electron density around CLA B 828:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



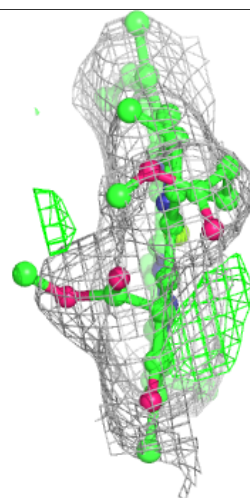
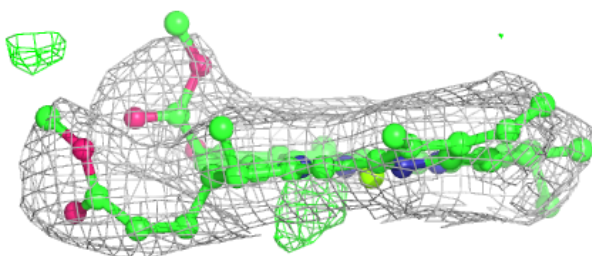
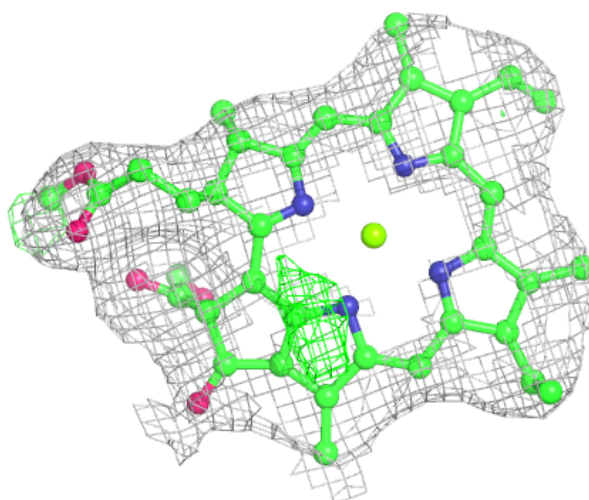
Electron density around CLA B 812:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



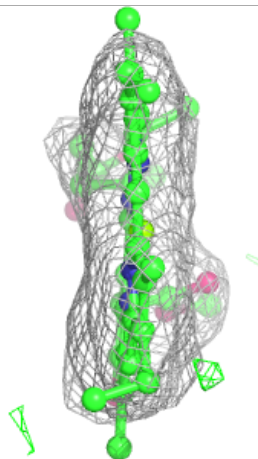
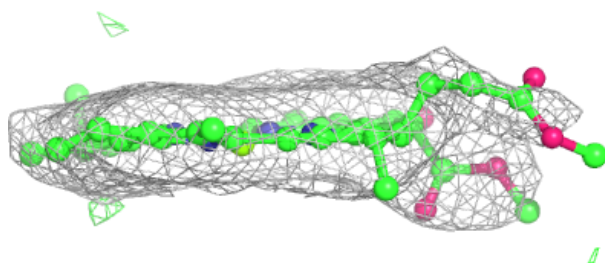
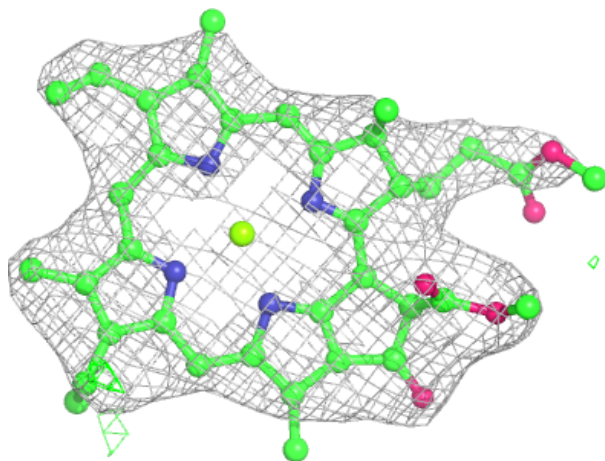
Electron density around CLA 4 603:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



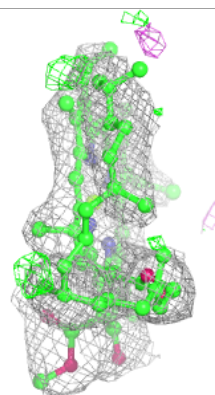
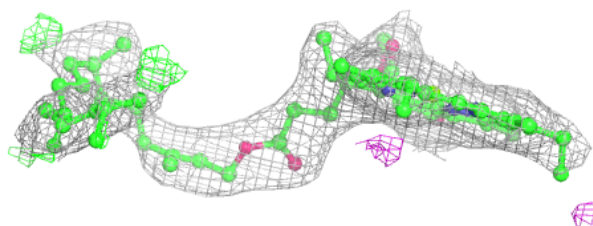
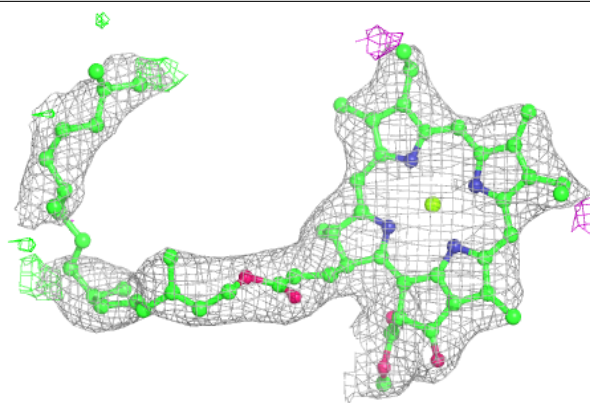
Electron density around CLA 8 312:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

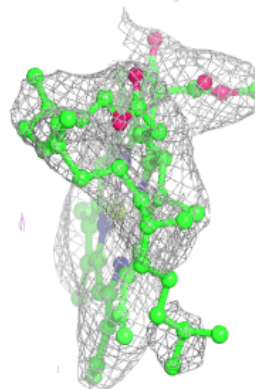
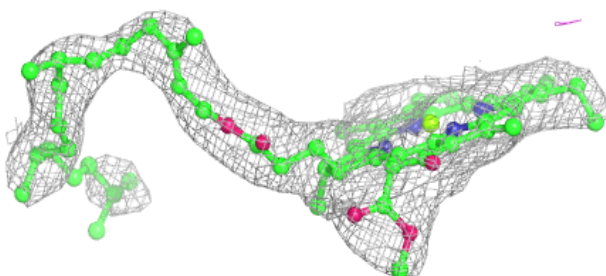
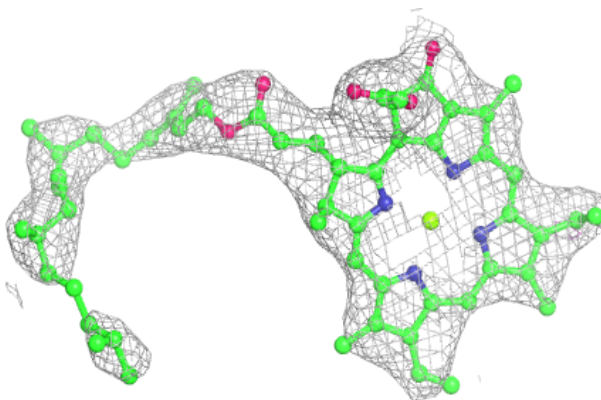


Electron density around CLA a 827:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

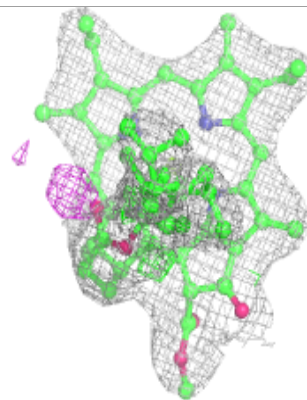
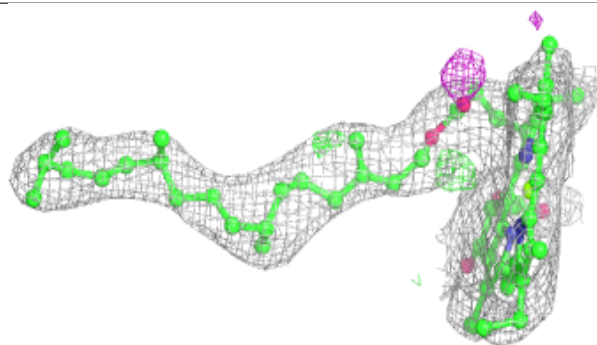
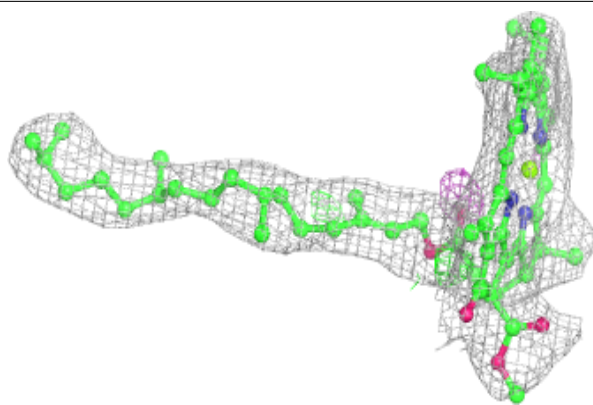
**Electron density around CLA a 828:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



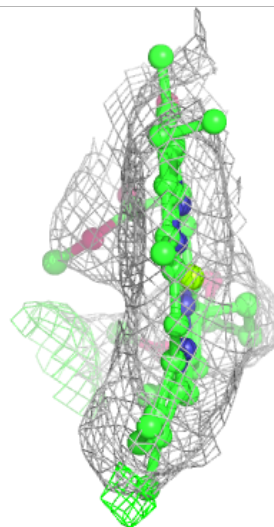
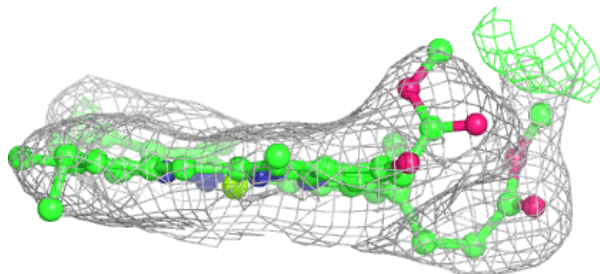
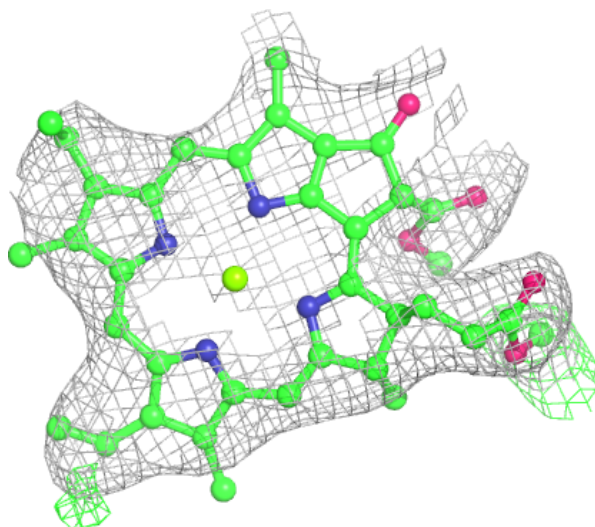
Electron density around CLA a 829:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



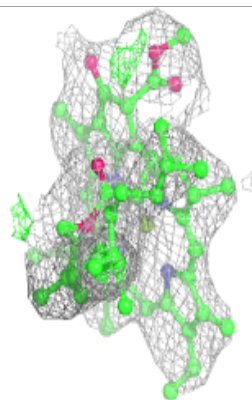
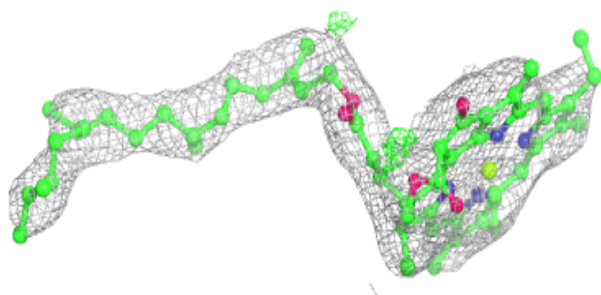
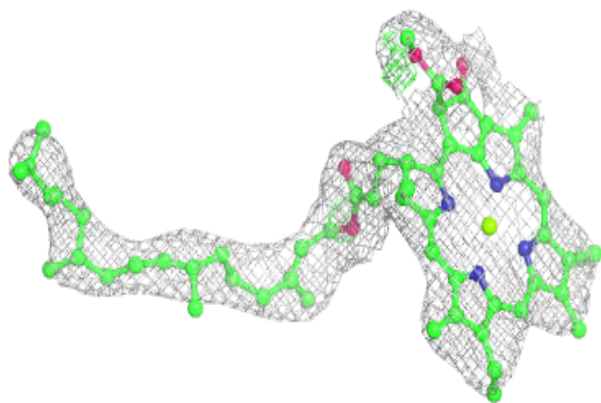
Electron density around CLA 9 603:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



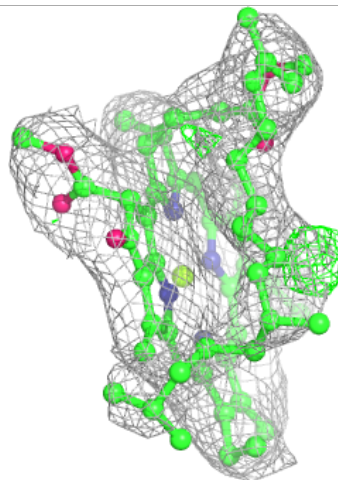
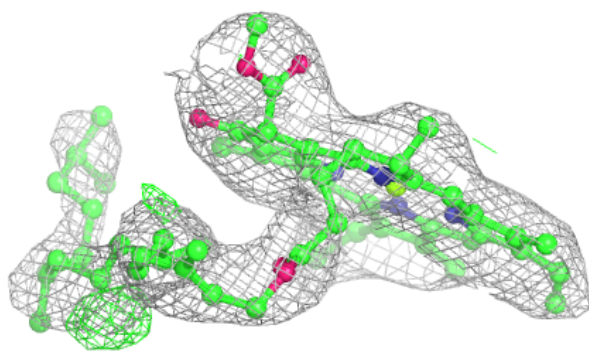
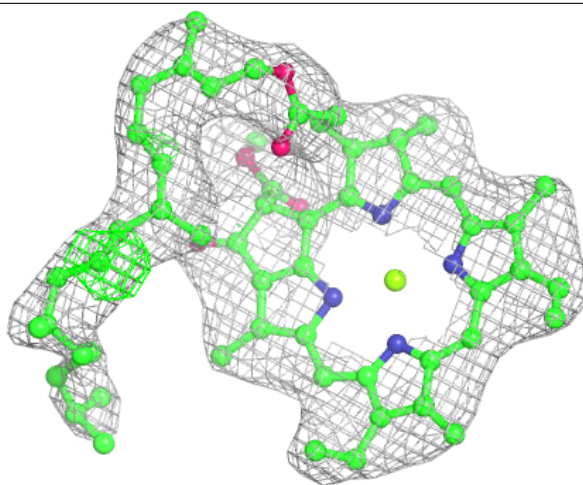
Electron density around CLA A 822:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



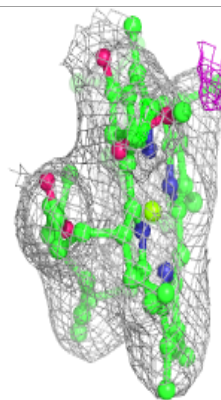
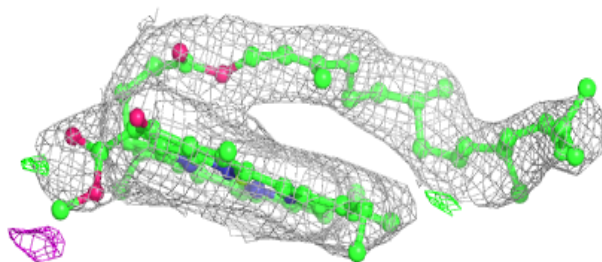
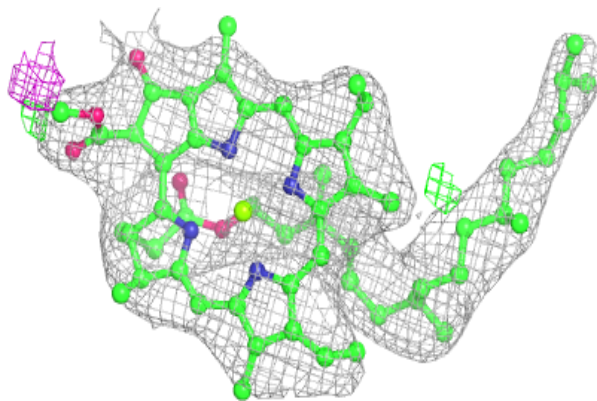
Electron density around CLA B 832:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



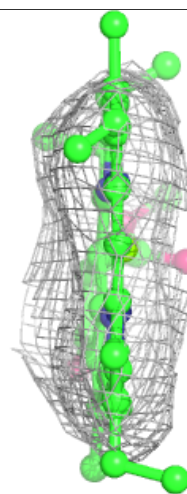
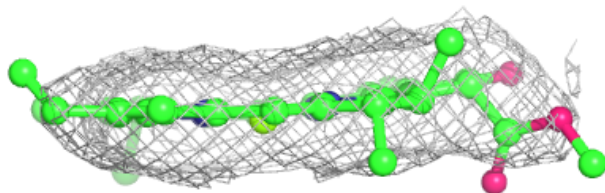
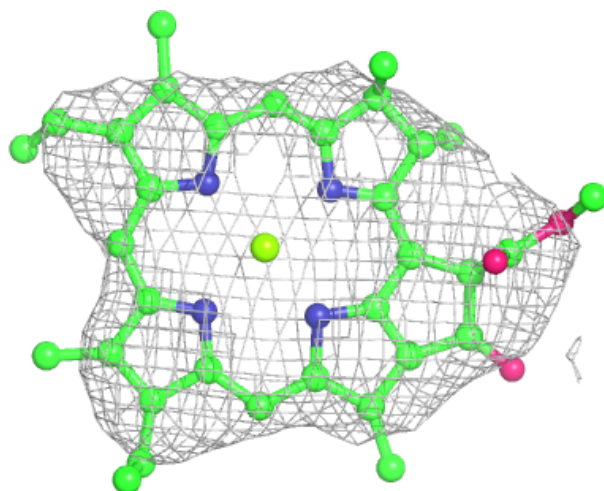
Electron density around CLA b 837:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



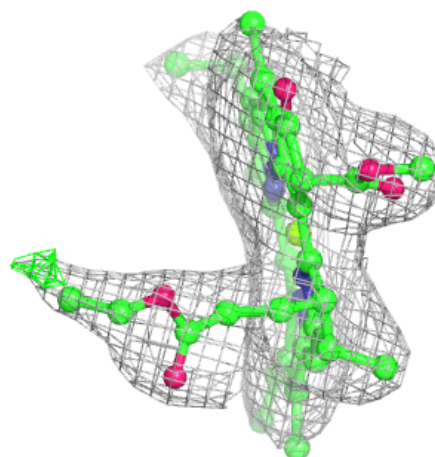
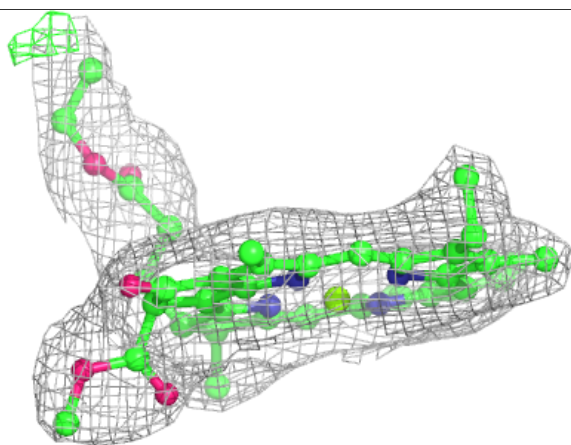
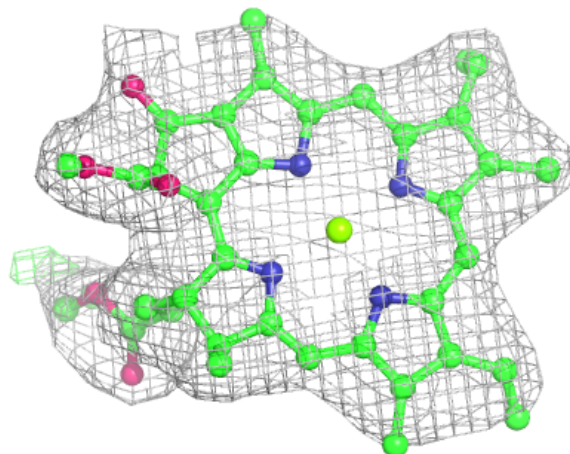
Electron density around CLA 9 610:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



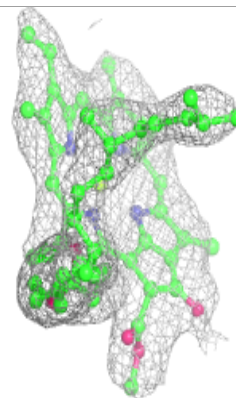
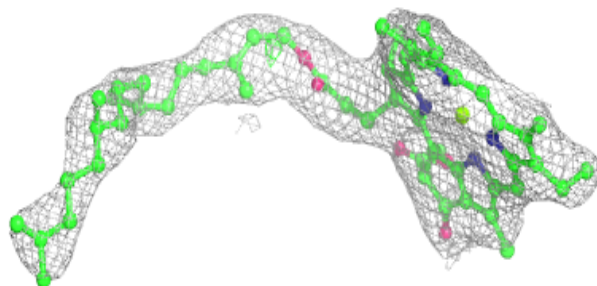
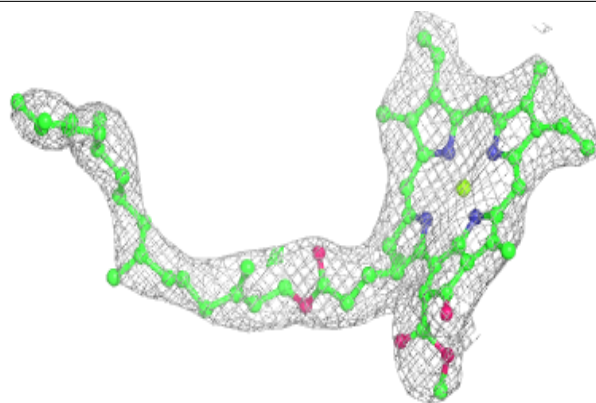
Electron density around CLA b 838:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

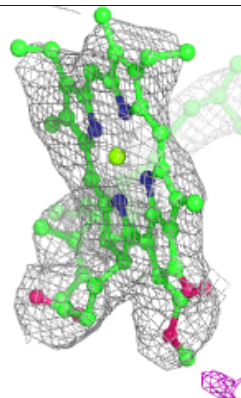
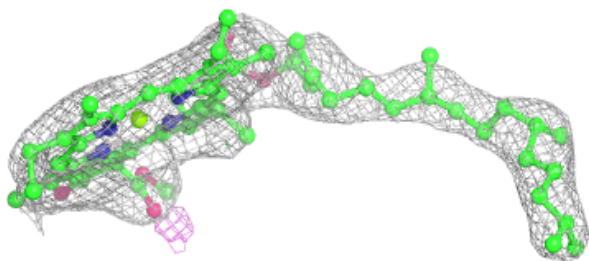
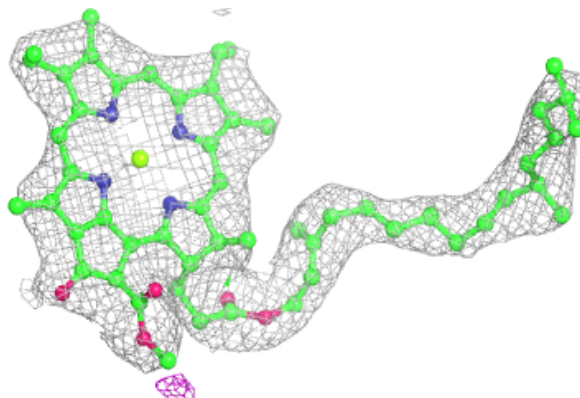


Electron density around CLA A 854:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

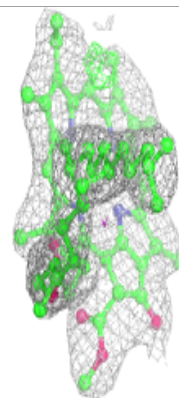
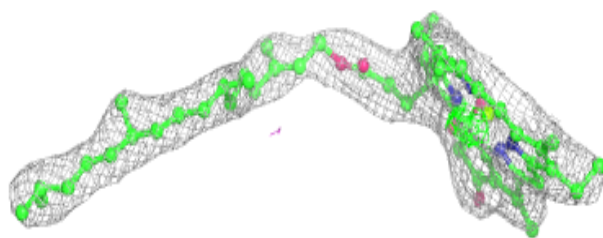
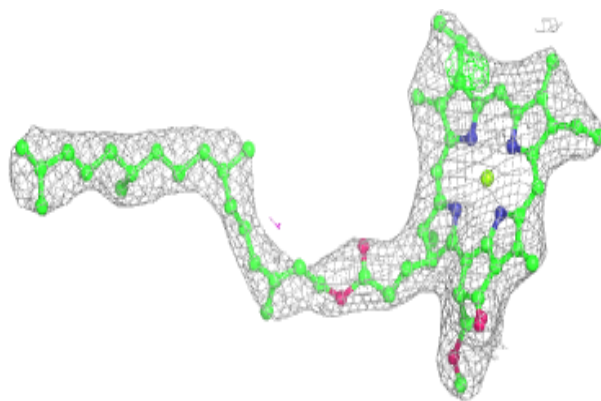
**Electron density around CLA A 802:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

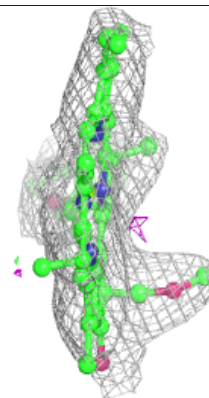
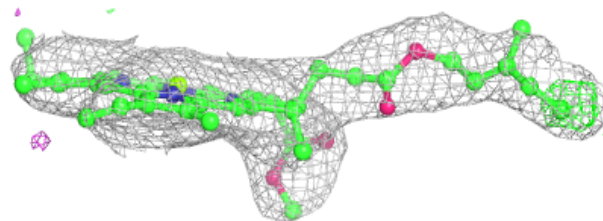
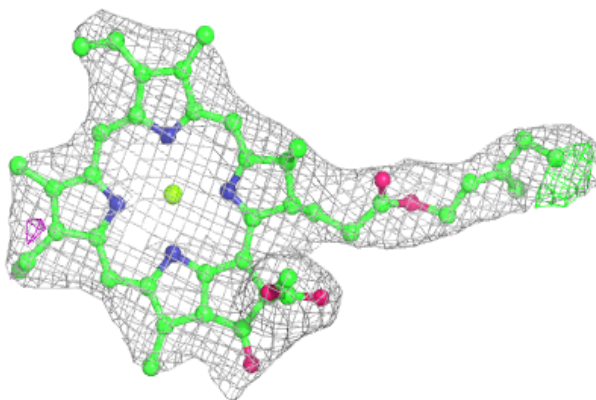


Electron density around CLA A 803:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

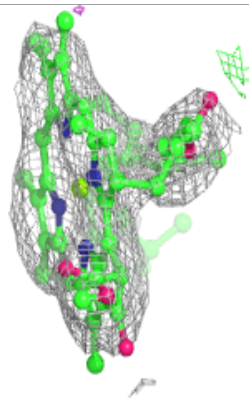
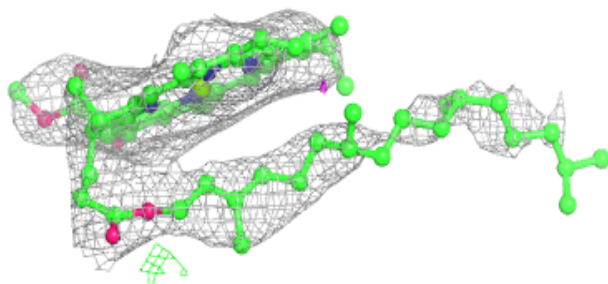
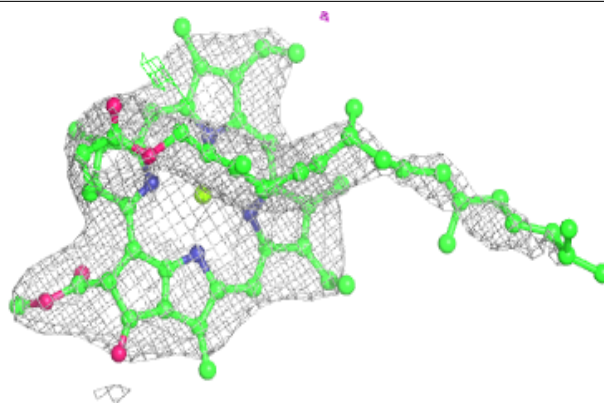
**Electron density around CLA a 838:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

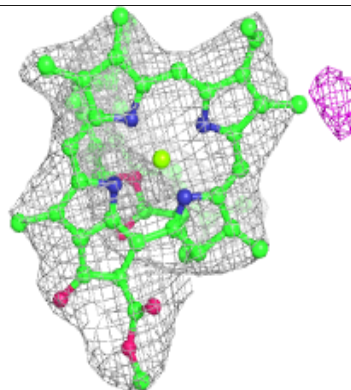
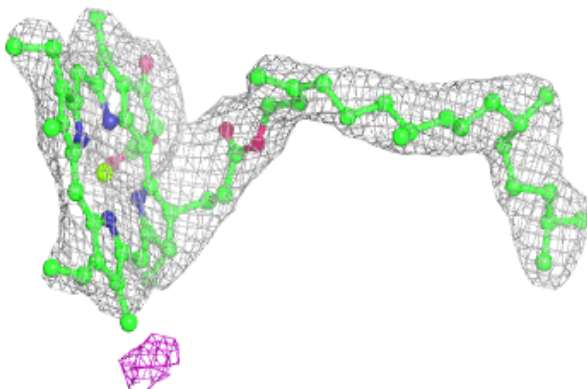
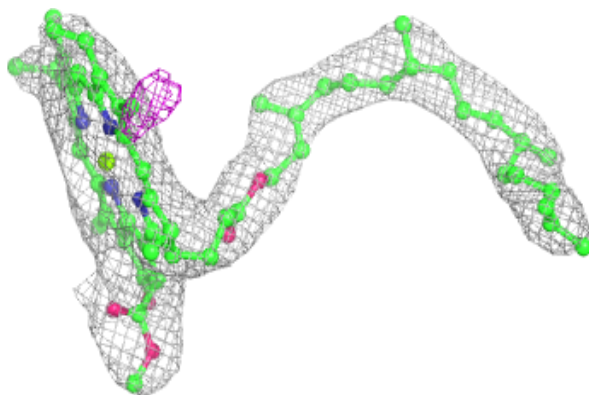


Electron density around CLA A 819:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

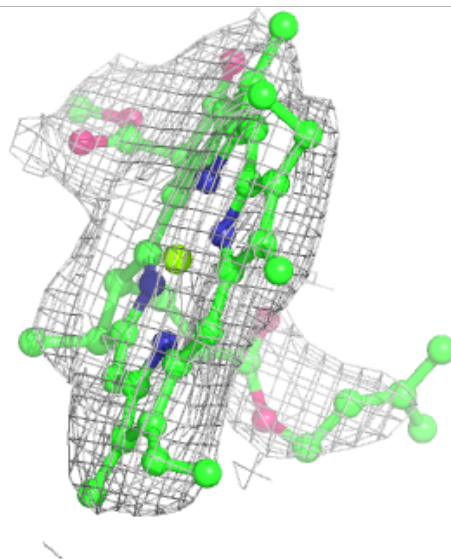
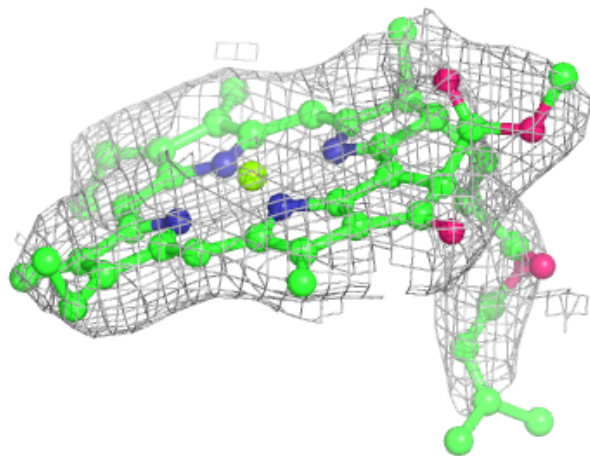
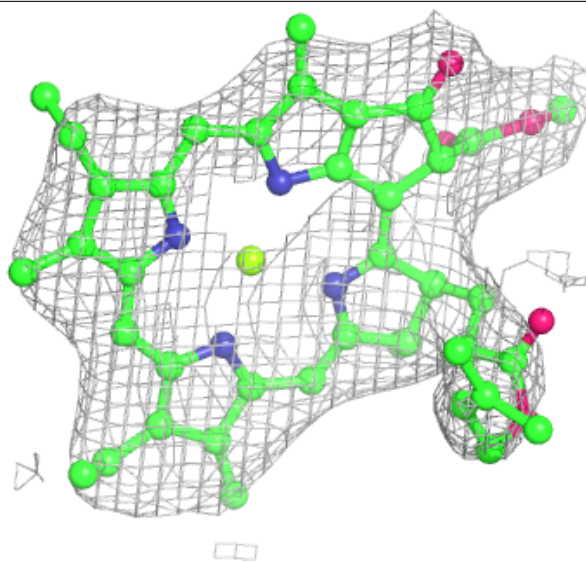
**Electron density around CLA b 839:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



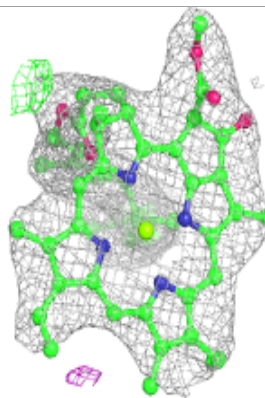
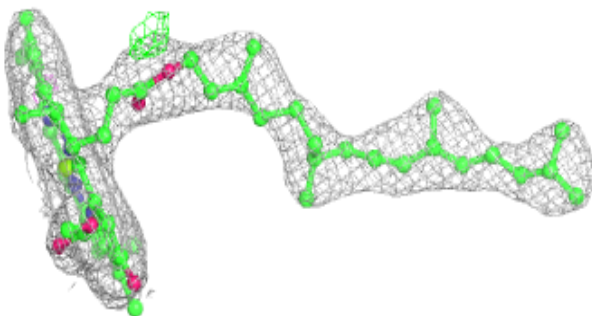
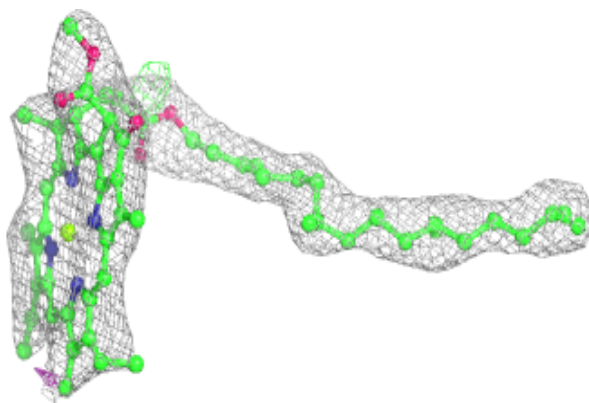
Electron density around CLA 8 307:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



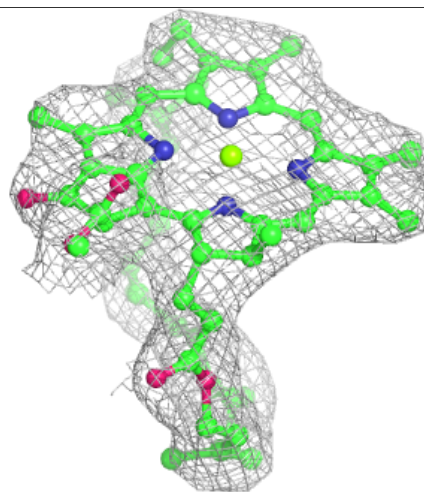
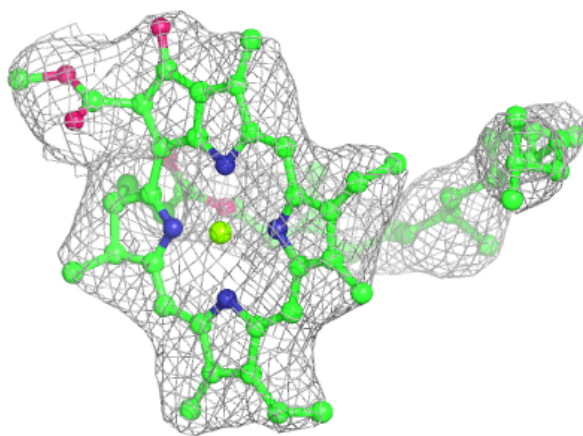
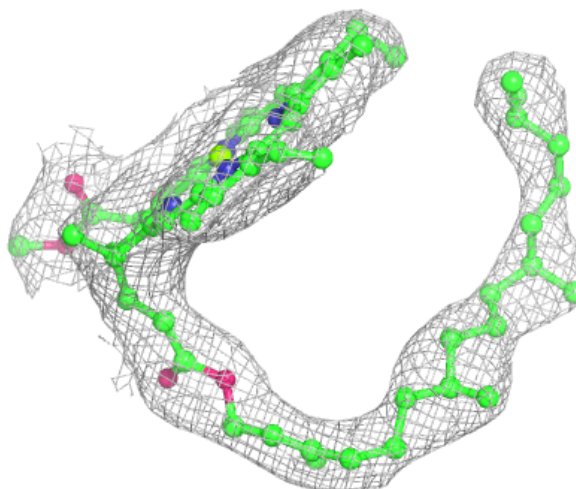
Electron density around CLA b 828:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



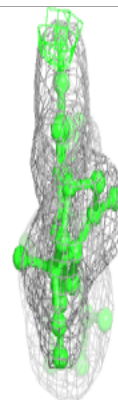
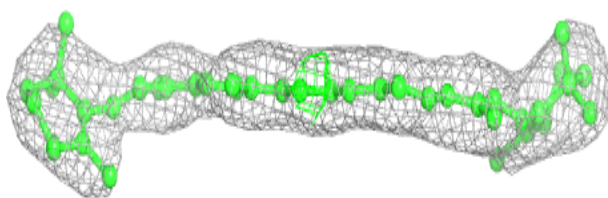
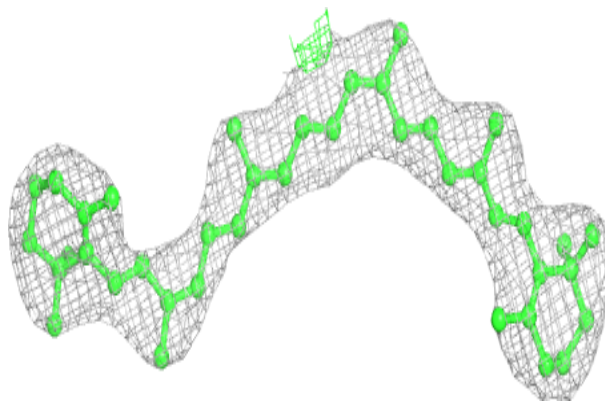
Electron density around CLA B 819:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

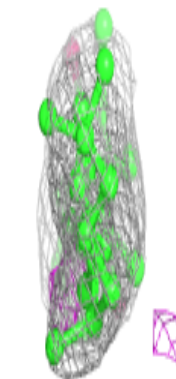
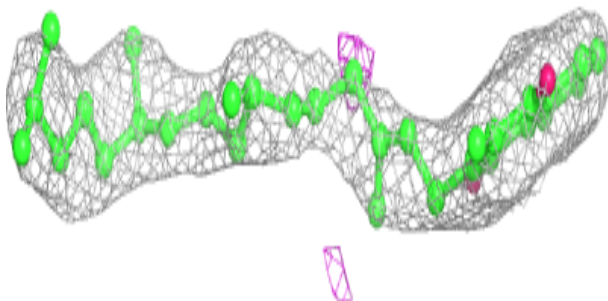
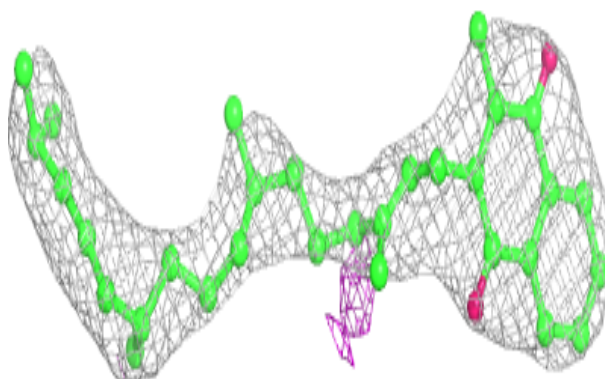


Electron density around BCR A 852:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

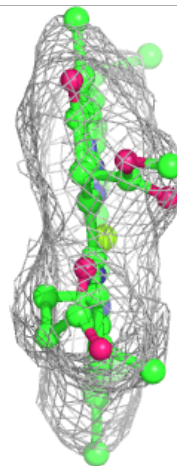
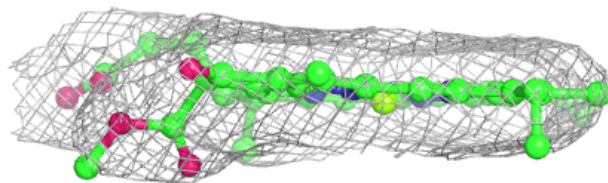
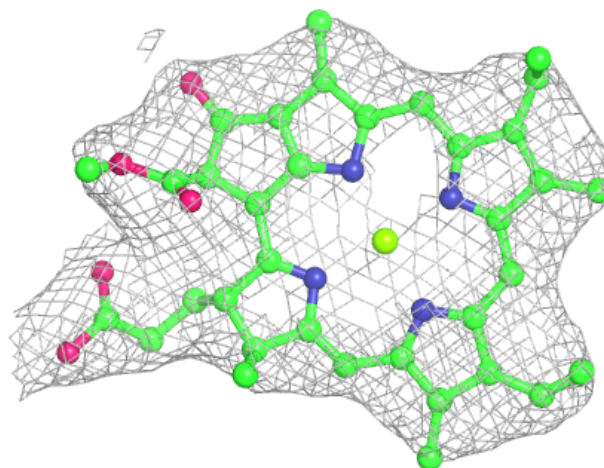
**Electron density around PQN A 844:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



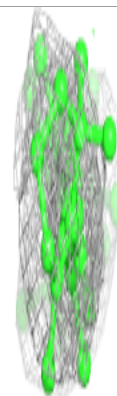
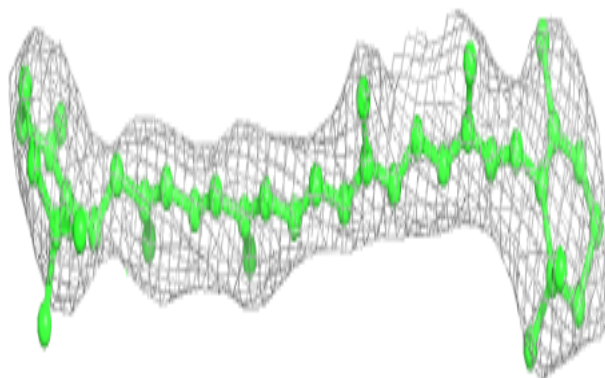
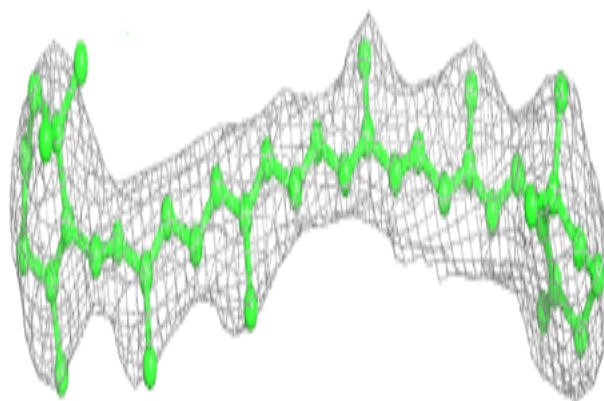
Electron density around CLA f 7002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

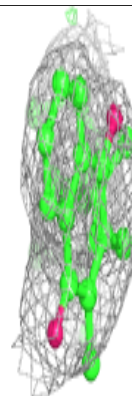
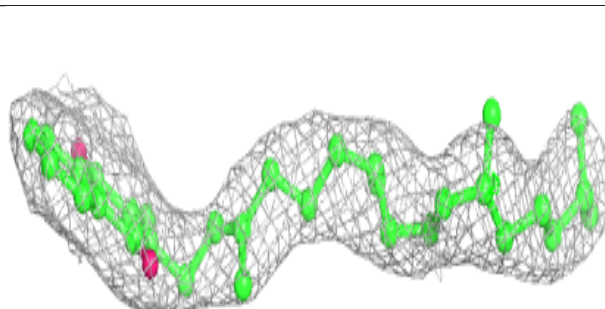
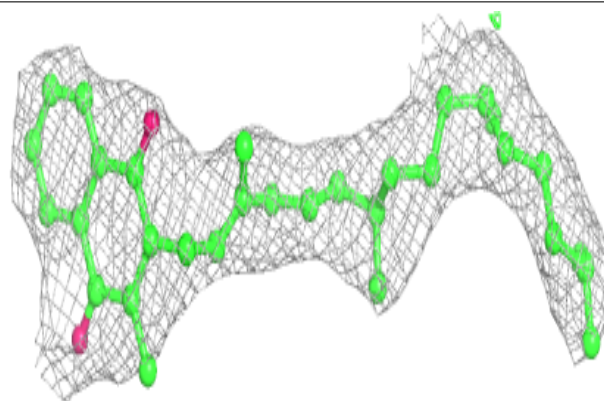


Electron density around BCR a 850:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

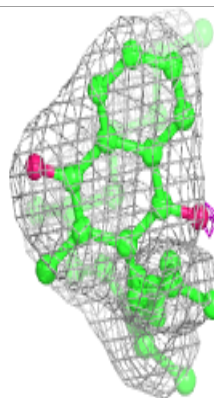
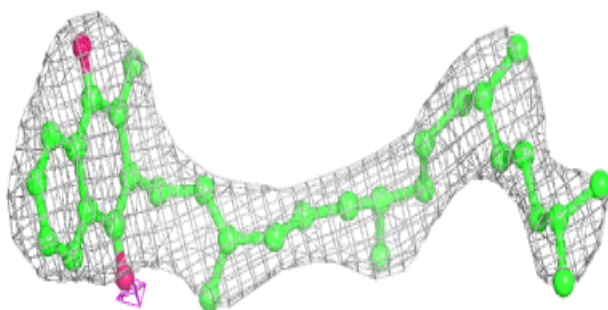
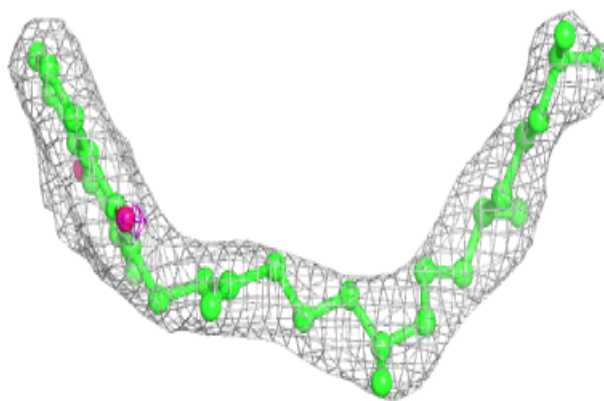
**Electron density around PQN a 845:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

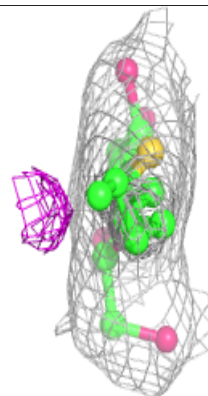
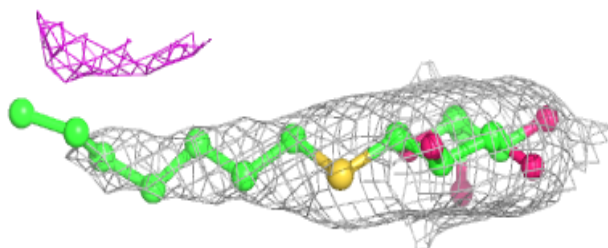
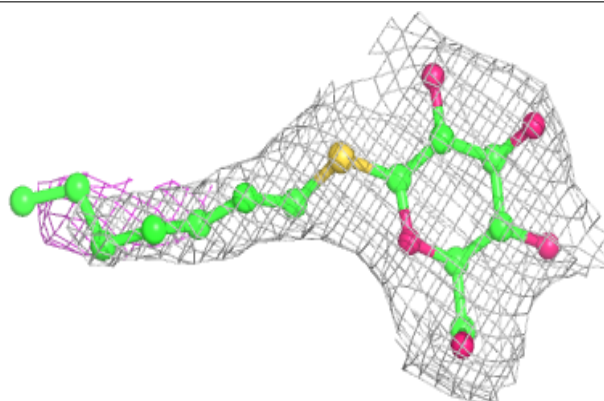


Electron density around PQN b 842:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

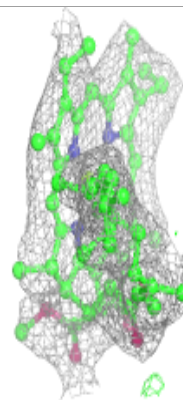
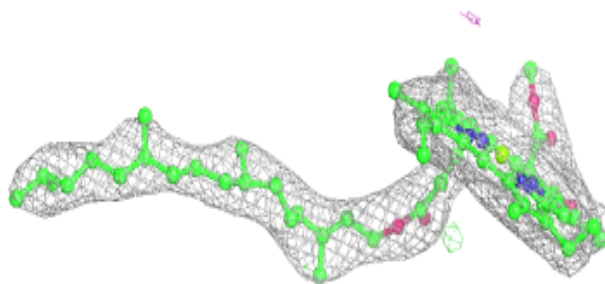
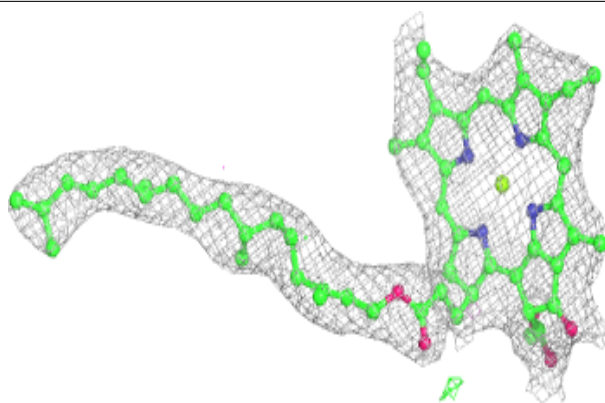
**Electron density around HTG A 855:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

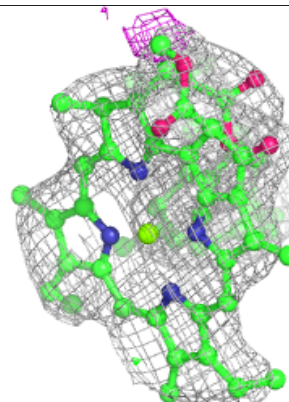
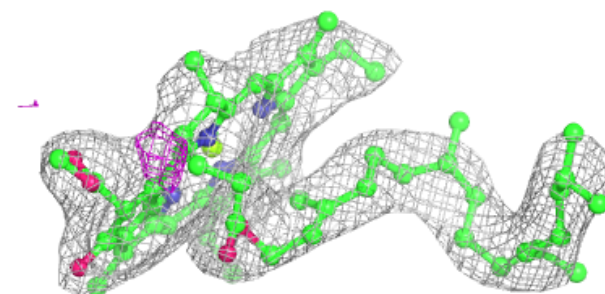
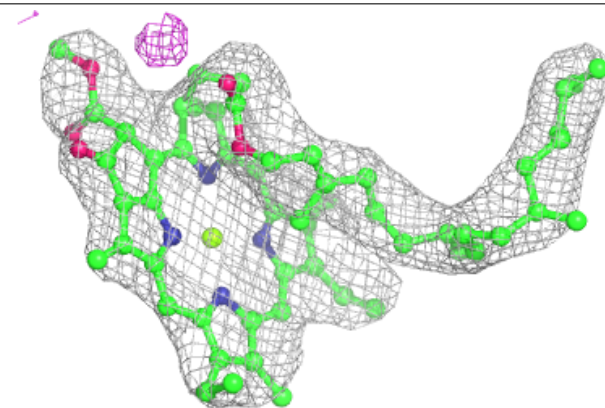


Electron density around CLA a 835:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

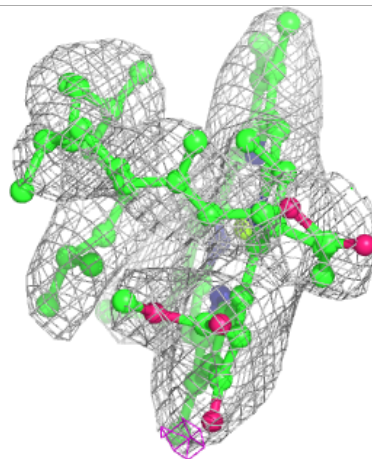
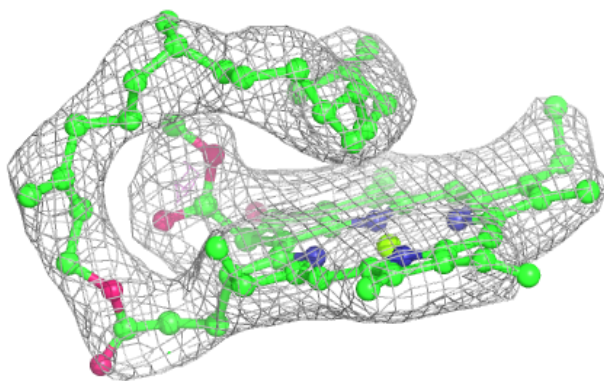
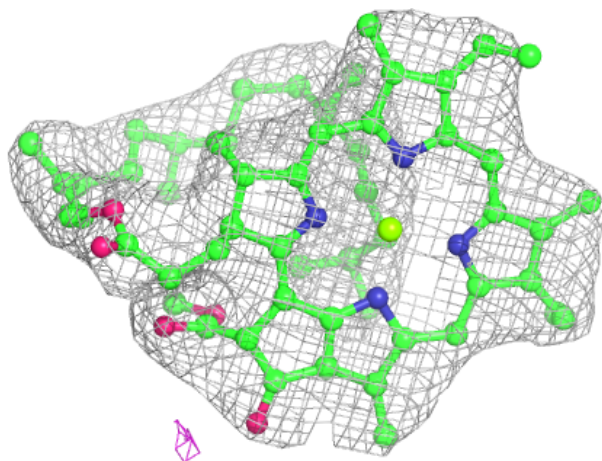
**Electron density around CLA a 844:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



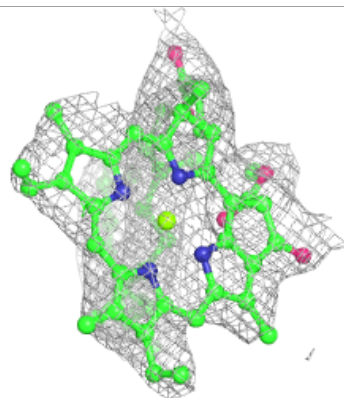
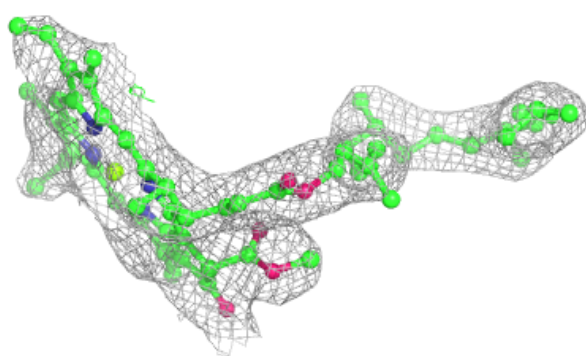
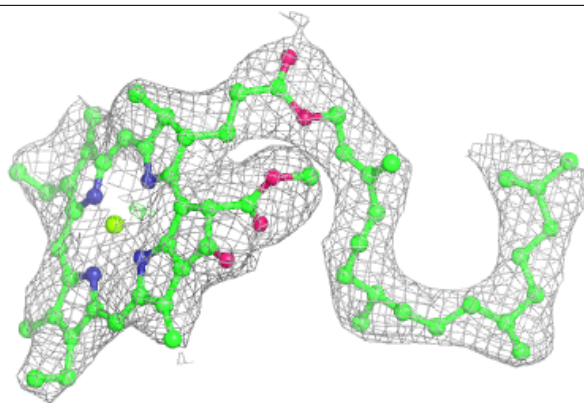
Electron density around CLA A 807:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



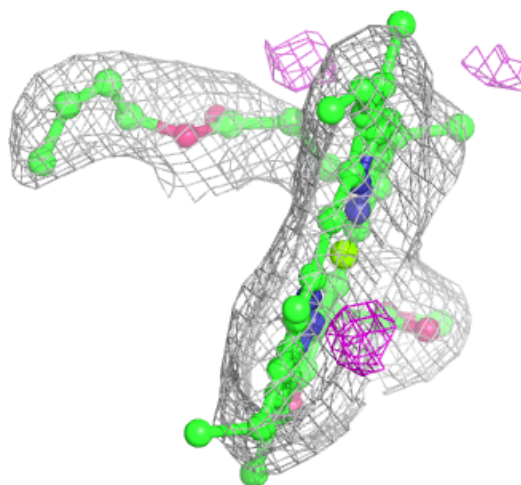
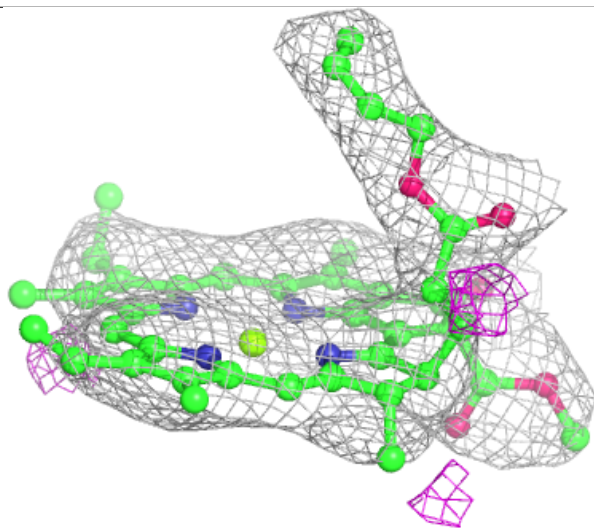
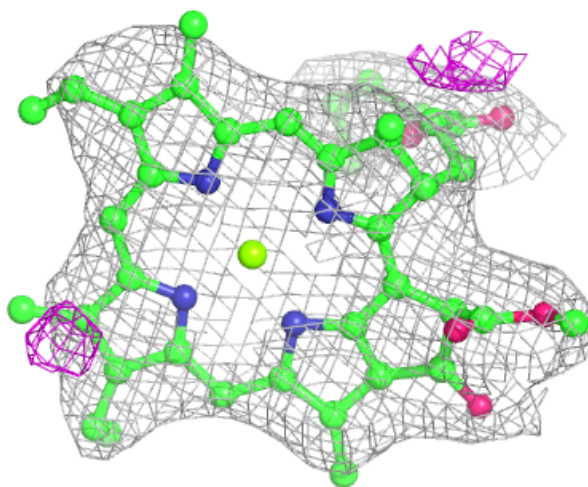
Electron density around CLA a 801:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



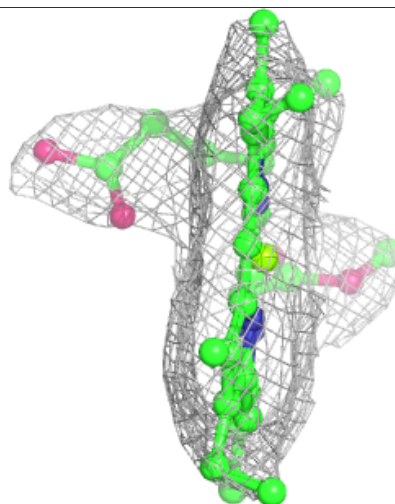
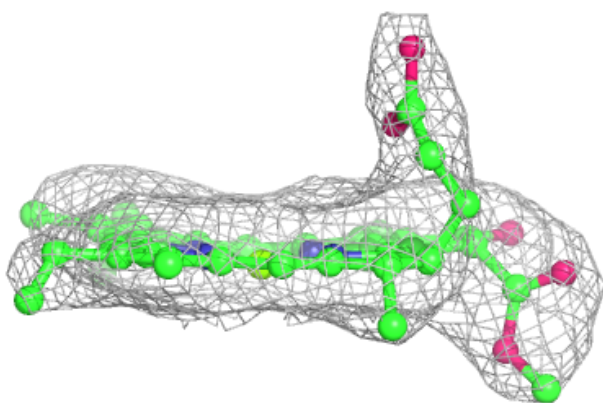
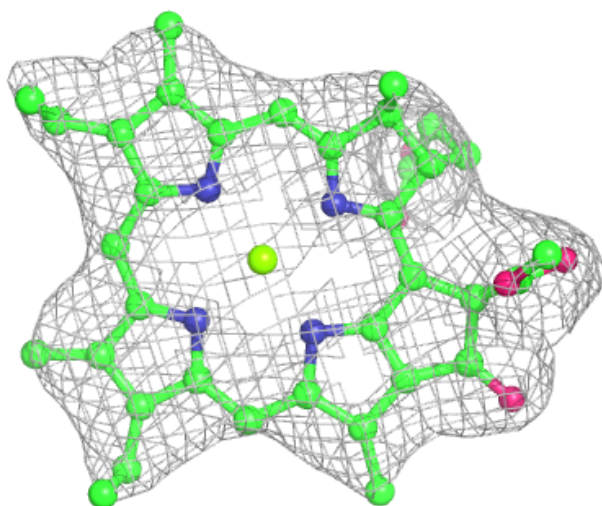
Electron density around CLA B 831:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



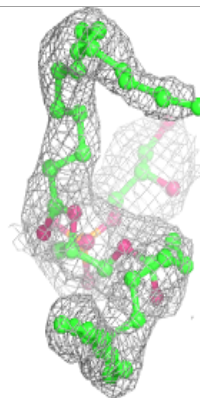
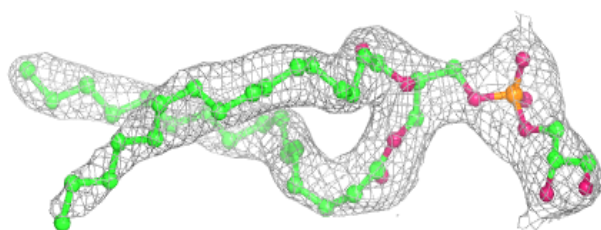
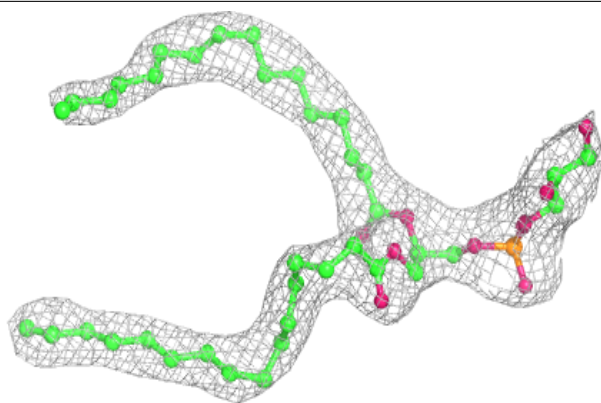
Electron density around CLA b 804:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

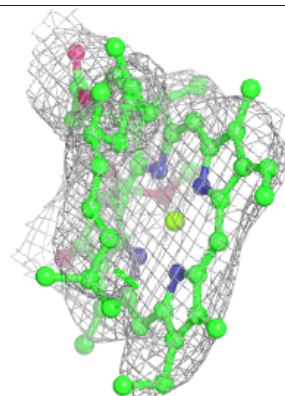
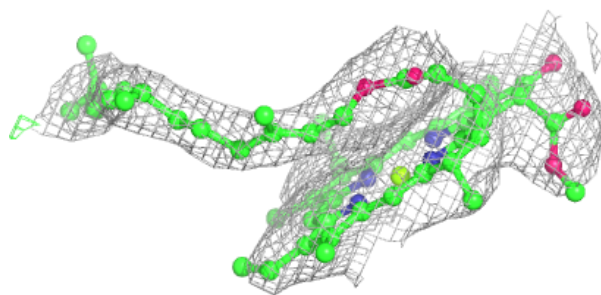
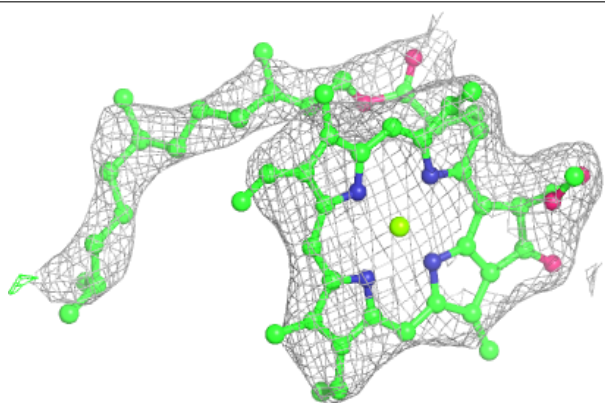


Electron density around LHG a 847:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

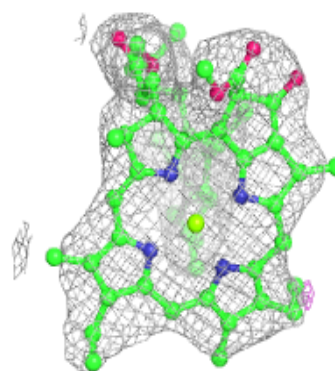
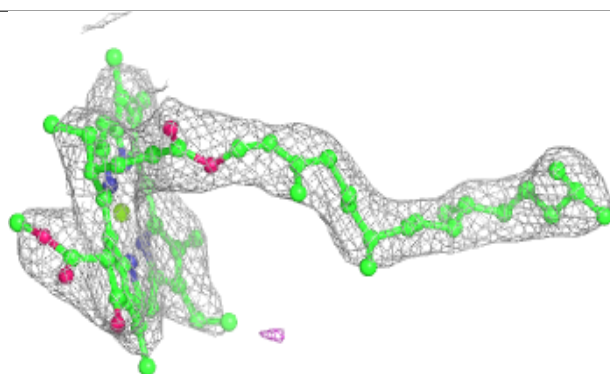
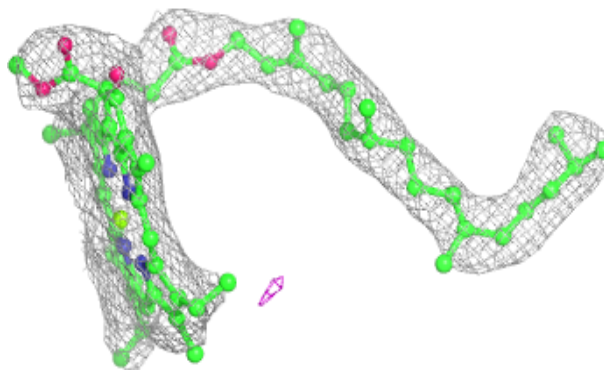
**Electron density around CLA 8 301:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

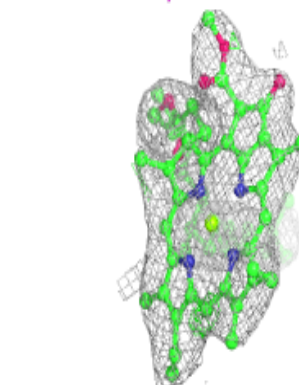
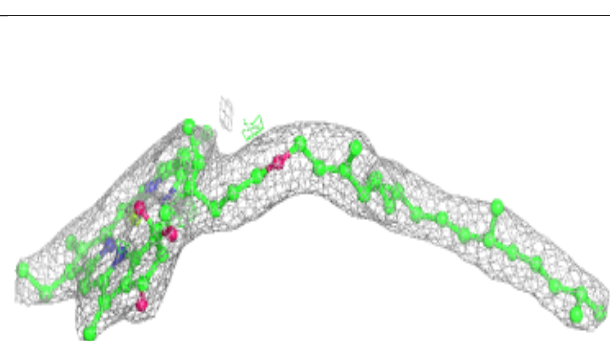
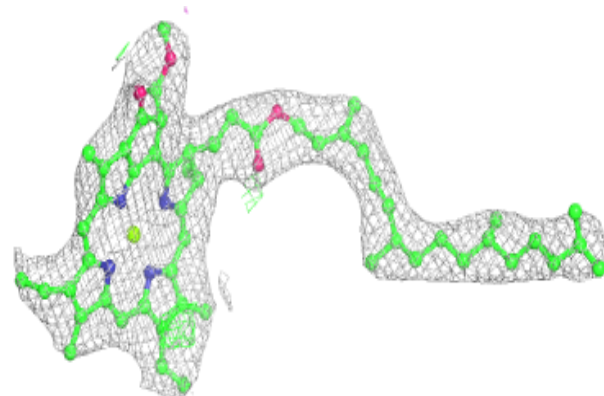


Electron density around CLA a 831:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

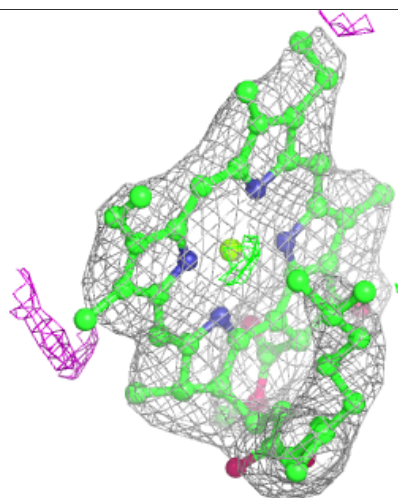
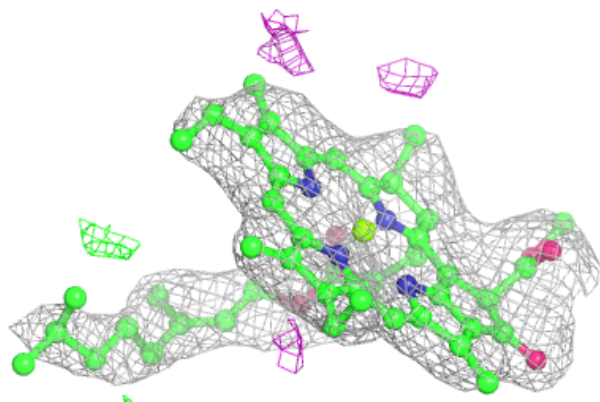
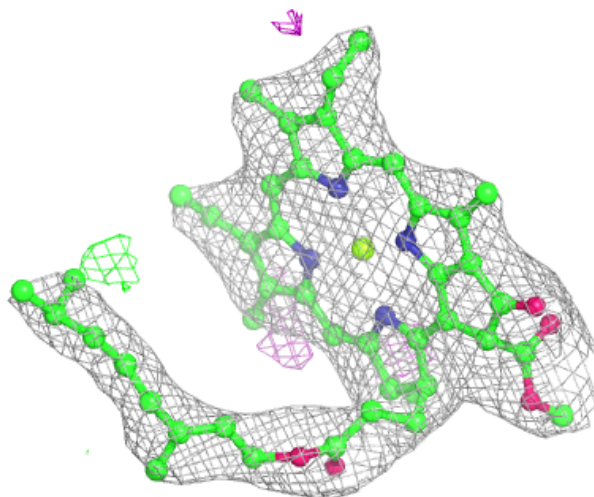
**Electron density around CLA a 803:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



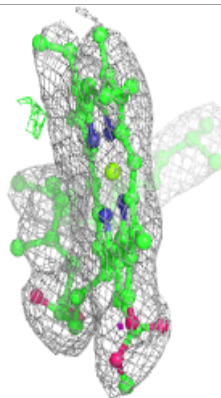
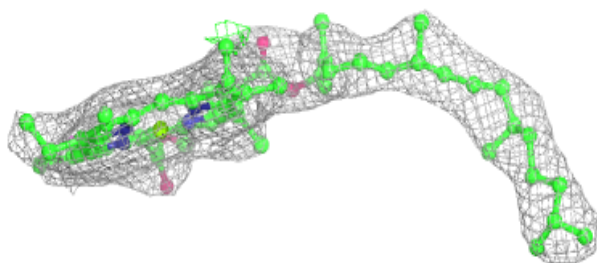
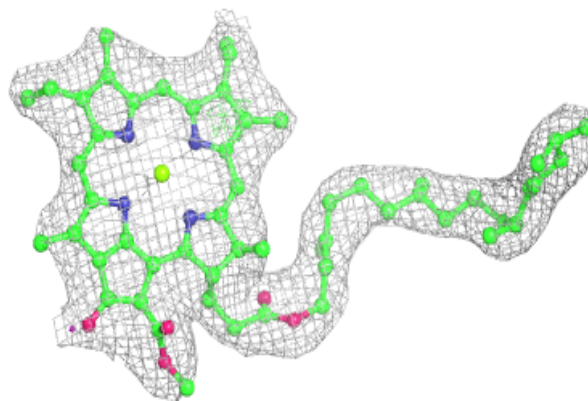
Electron density around CLA a 825:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

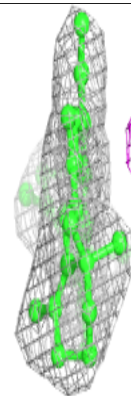
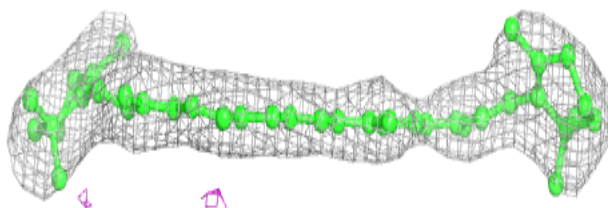
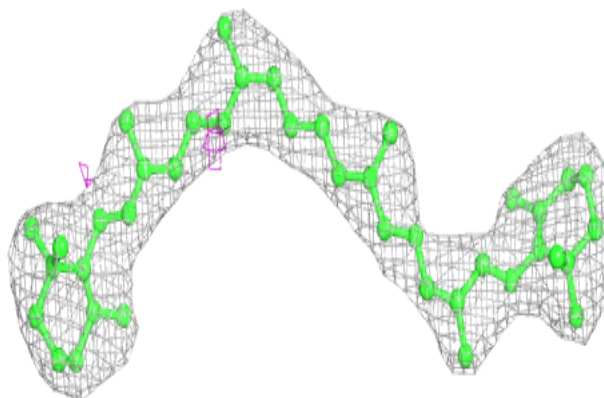


Electron density around CLA b 803:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

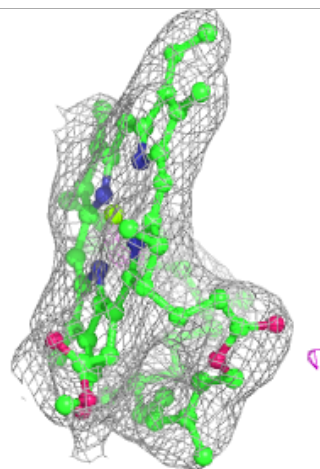
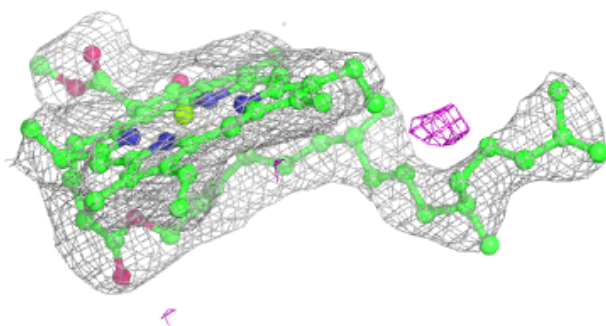
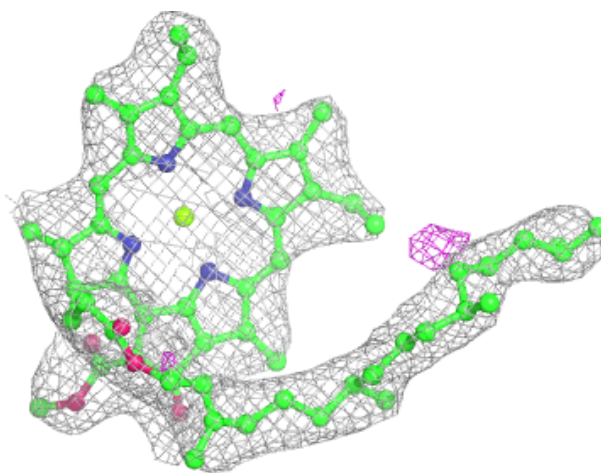
**Electron density around BCR a 854:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



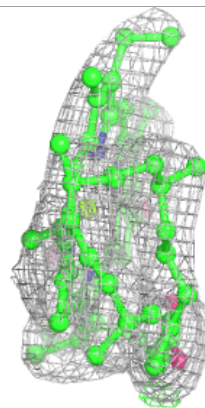
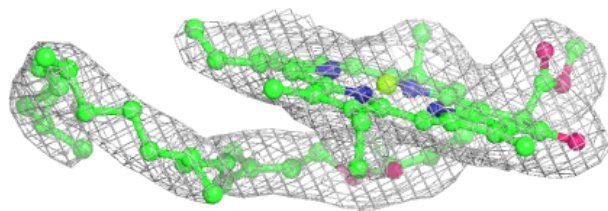
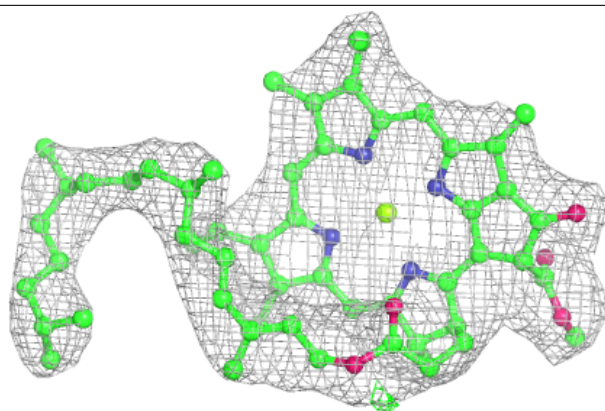
Electron density around CLA a 830:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA a 820:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.