



Full wwPDB EM Validation Report ⓘ

Sep 20, 2026 – 11:17 pm BST

PDB ID : 9QFP / pdb_00009qfp
EMDB ID : EMD-53120
Title : Monomeric Photosystem I Cryo-EM structure at 1.8 Å resolution
Authors : Gaullier, G.; Boyka, J.; Zouni, A.; Blikstad, C.
Deposited on : 2025-03-12
Resolution : 1.74 Å (reported)
Based on initial model : .

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev133
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

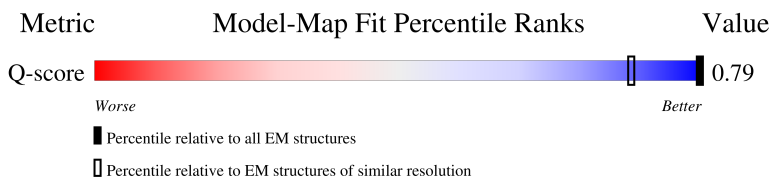
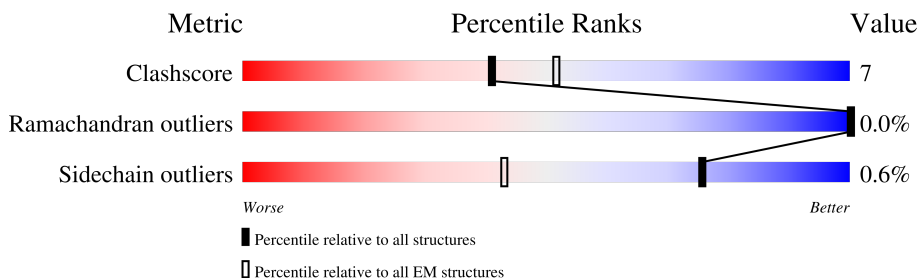
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 1.74 Å.

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



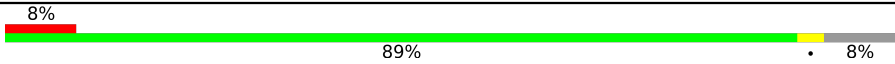
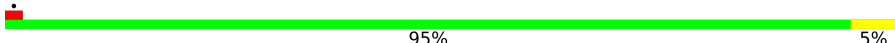
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	645 (1.25 - 2.24)

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

Mol	Chain	Length	Quality of chain
1	A	755	
2	B	741	
3	C	81	
4	D	139	

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Mol	Chain	Length	Quality of chain
5	E	76	
6	F	164	
7	I	38	
8	J	41	
9	K	83	
10	M	31	
11	X	39	

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
13	CLA	A	805	X	-	-	-
13	CLA	A	806	X	-	-	-
13	CLA	A	807	X	-	-	-
13	CLA	A	808	X	-	-	-
13	CLA	A	809	X	-	-	-
13	CLA	A	810	X	-	-	-
13	CLA	A	811	X	-	-	-
13	CLA	A	812	X	-	-	-
13	CLA	A	813	X	-	-	-
13	CLA	A	814	X	-	-	-
13	CLA	A	815	X	-	-	-
13	CLA	A	816	X	-	-	-
13	CLA	A	817	X	-	-	-
13	CLA	A	818	X	-	-	-
13	CLA	A	821	X	-	-	-
13	CLA	A	822	X	-	-	-
13	CLA	A	823	X	-	-	-
13	CLA	A	824	X	-	-	-
13	CLA	A	825	X	-	-	-
13	CLA	A	827	X	-	-	-
13	CLA	A	830	X	-	-	-
13	CLA	A	831	X	-	-	-
13	CLA	A	832	X	-	-	-
13	CLA	A	844	X	-	-	-
13	CLA	A	848	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CLA	A	849	X	-	-	-
13	CLA	A	851	X	-	-	-
13	CLA	A	854	X	-	-	-
13	CLA	A	856	X	-	-	-
13	CLA	A	858	X	-	-	-
13	CLA	A	859	X	-	-	-
13	CLA	A	860	X	-	-	-
13	CLA	A	861	X	-	-	-
13	CLA	B	813	X	-	-	-
13	CLA	B	815	X	-	-	-
13	CLA	B	816	X	-	-	-
13	CLA	B	817	X	-	-	-
13	CLA	B	818	X	-	-	-
13	CLA	B	819	X	-	-	-
13	CLA	B	820	X	-	-	-
13	CLA	B	821	X	-	-	-
13	CLA	B	828	X	-	-	-
13	CLA	B	829	X	-	-	-
13	CLA	B	831	X	-	-	-
13	CLA	B	832	X	-	-	-
13	CLA	B	833	X	-	-	-
13	CLA	B	835	X	-	-	-
13	CLA	B	837	X	-	-	-
13	CLA	B	839	X	-	-	-
13	CLA	B	841	X	-	-	-
13	CLA	B	842	X	-	-	-
13	CLA	B	843	X	-	-	-
13	CLA	F	201	X	-	-	-
13	CLA	F	204	X	-	-	-
13	CLA	J	102	X	-	-	-
13	CLA	K	101	X	-	-	-
13	CLA	K	104	X	-	-	-

2 Entry composition

There are 22 unique types of molecules in this entry. The entry contains 25572 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	747	Total	C	N	O	S	0	0
			5835	3828	996	985	26		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	740	Total	C	N	O	S	0	0
			5894	3878	988	1007	21		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	80	Total	C	N	O	S	0	0
			598	367	103	117	11		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	138	Total	C	N	O	S	0	0
			1075	682	186	204	3		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	70	Total	C	N	O	S	0	0
			547	347	94	105	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	141	Total	C	N	O	S	0	0
			1065	680	184	197	4		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
7	I	37	Total	C	N	O	S	0	0
			293	203	39	47	4		

- Molecule 8 is a protein called Photosystem I reaction center subunit IX.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	J	41	Total	C	N	O	S	0	0
			338	231	51	54	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
9	K	79	Total	C	N	O	S	0	0
			571	377	92	101	1		

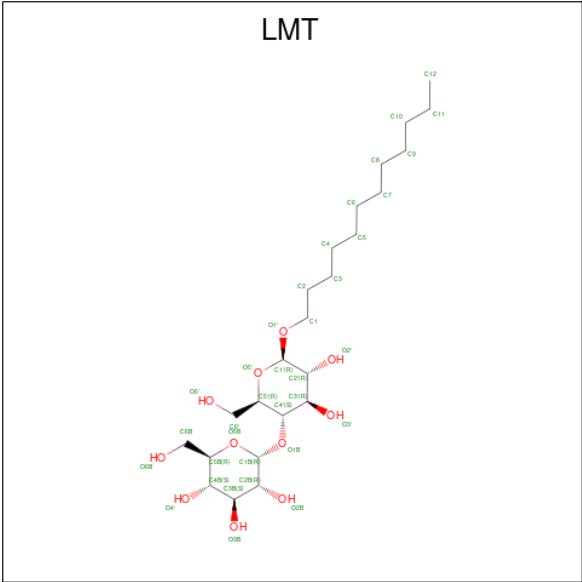
- Molecule 10 is a protein called Photosystem I reaction center subunit XII.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	M	31	Total	C	N	O	S	0	0
			241	161	36	43	1		

- Molecule 11 is a protein called Photosystem I 4.8K protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
11	X	30	Total	C	N	O	0	0
			252	178	37	37		

- Molecule 12 is DODECYL-BETA-D-MALTOSIDE (CCD ID: LMT) (formula: C₂₄H₄₆O₁₁) (labeled as "Ligand of Interest" by depositor).



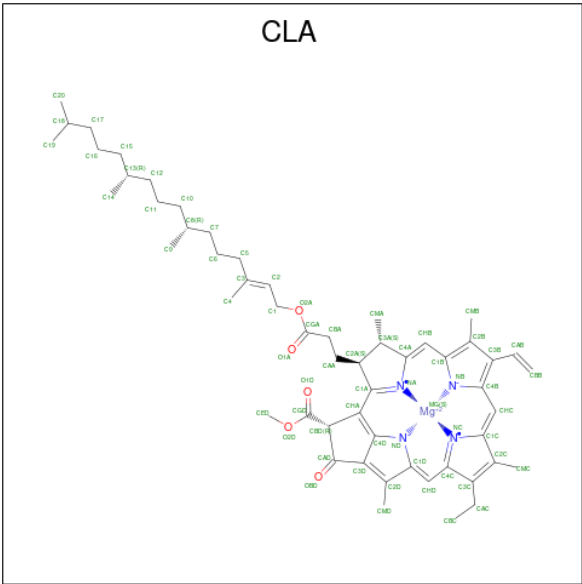
Mol	Chain	Residues	Atoms			AltConf
12	A	1	Total	C	O	0
			35	24	11	
12	A	1	Total	C	O	0
			35	24	11	
12	A	1	Total	C	O	0
			35	24	11	
12	A	1	Total	C	O	0
			35	24	11	
12	A	1	Total	C	O	0
			35	24	11	
12	A	1	Total	C	O	0
			35	24	11	
12	A	1	Total	C	O	0
			35	24	11	
12	B	1	Total	C	O	0
			35	24	11	
12	B	1	Total	C	O	0
			35	24	11	
12	B	1	Total	C	O	0
			35	24	11	
12	B	1	Total	C	O	0
			35	24	11	
12	F	1	Total	C	O	0
			35	24	11	
12	K	1	Total	C	O	0
			35	24	11	

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Mol	Chain	Residues	Atoms			AltConf
12	K	1	Total	C	O	0
			35	24	11	
12	X	1	Total	C	O	0
			35	24	11	

- Molecule 13 is CHLOROPHYLL A (CCD ID: CLA) (formula: C₅₅H₇₂MgN₄O₅) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
13	B	1	Total 65	C 55	Mg 1	N 4	O 5	0

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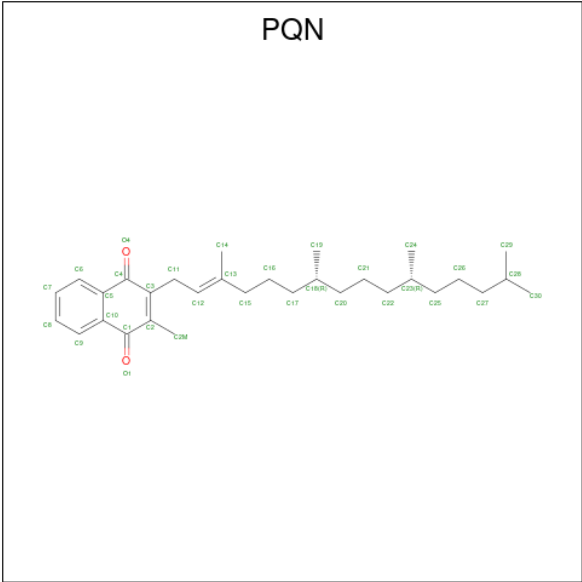
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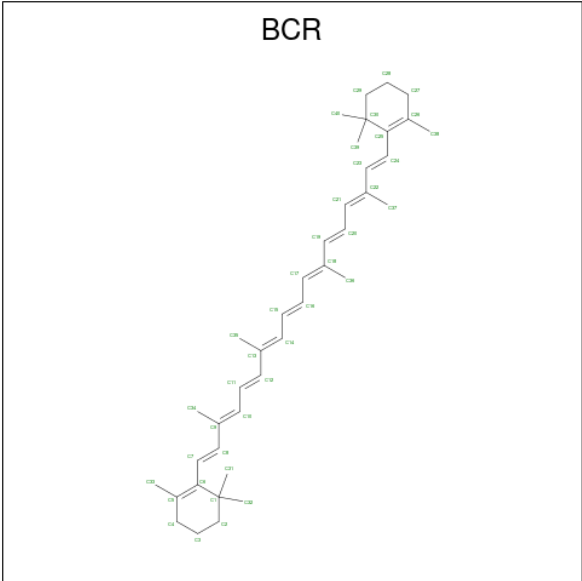
Mol	Chain	Residues	Atoms					AltConf
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	F	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	F	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	J	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	J	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	K	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	K	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
13	X	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

- Molecule 14 is PHYLLOQUINONE (CCD ID: PQN) (formula: C₃₁H₄₆O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
14	A	1	Total	C	O	0
			33	31	2	
14	B	1	Total	C	O	0
			33	31	2	

- Molecule 15 is BETA-CAROTENE (CCD ID: BCR) (formula: C₄₀H₅₆) (labeled as "Ligand of Interest" by depositor).



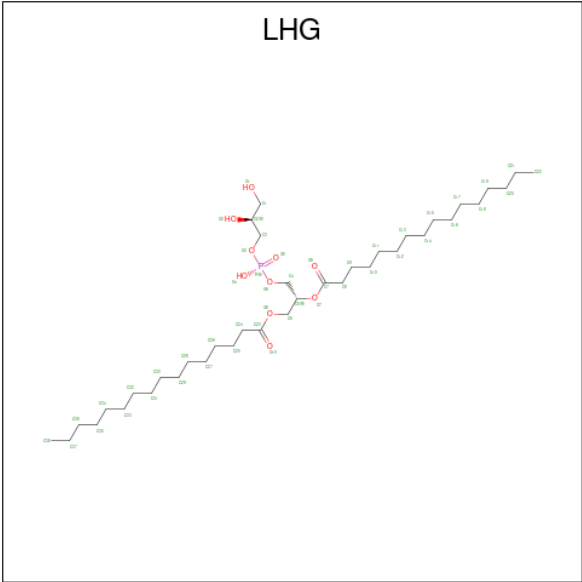
Mol	Chain	Residues	Atoms		AltConf
15	A	1	Total	C	0
			40	40	

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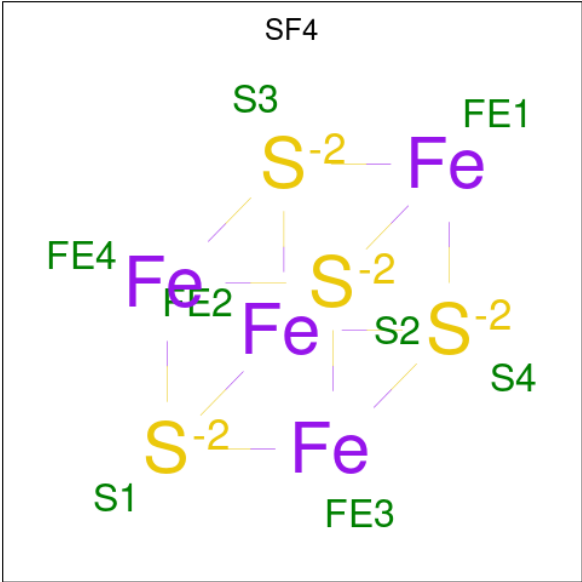
Mol	Chain	Residues	Atoms	AltConf
15	A	1	Total C 40 40	0
15	A	1	Total C 40 40	0
15	A	1	Total C 40 40	0
15	A	1	Total C 40 40	0
15	A	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	B	1	Total C 40 40	0
15	F	1	Total C 40 40	0
15	F	1	Total C 40 40	0
15	F	1	Total C 40 40	0
15	J	1	Total C 40 40	0
15	J	1	Total C 40 40	0
15	K	1	Total C 40 40	0
15	M	1	Total C 40 40	0

- Molecule 16 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: C₃₈H₇₅O₁₀P) (labeled as "Ligand of Interest" by depositor).



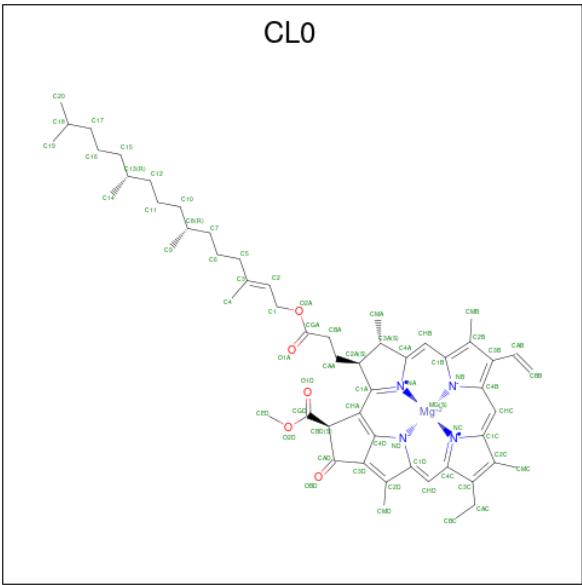
Mol	Chain	Residues	Atoms				AltConf
16	A	1	Total	C	O	P	0
			49	38	10	1	
16	A	1	Total	C	O	P	0
			49	38	10	1	
16	A	1	Total	C	O	P	0
			49	38	10	1	
16	I	1	Total	C	O	P	0
			49	38	10	1	
16	X	1	Total	C	O	P	0
			49	38	10	1	

- Molecule 17 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄) (labeled as "Ligand of Interest" by depositor).



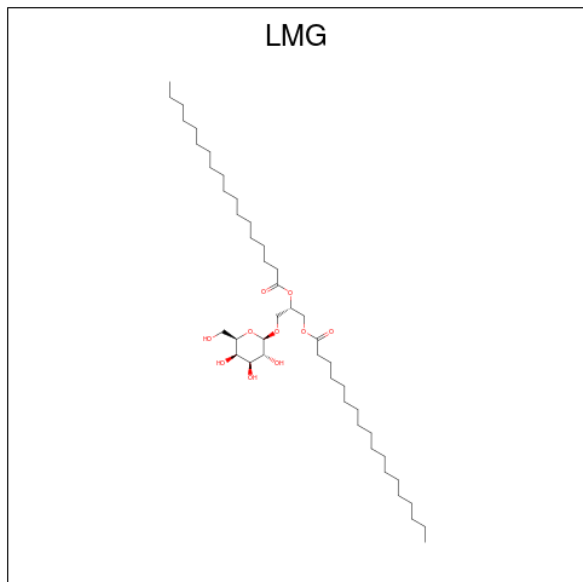
Mol	Chain	Residues	Atoms			AltConf
17	A	1	Total	Fe	S	0
			8	4	4	
17	C	1	Total	Fe	S	0
			8	4	4	
17	C	1	Total	Fe	S	0
			8	4	4	

- Molecule 18 is CHLOROPHYLL A ISOMER (CCD ID: CL0) (formula: C₅₅H₇₂MgN₄O₅).



Mol	Chain	Residues	Atoms					AltConf
18	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

- Molecule 19 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: $C_{45}H_{86}O_{10}$) (labeled as "Ligand of Interest" by depositor).

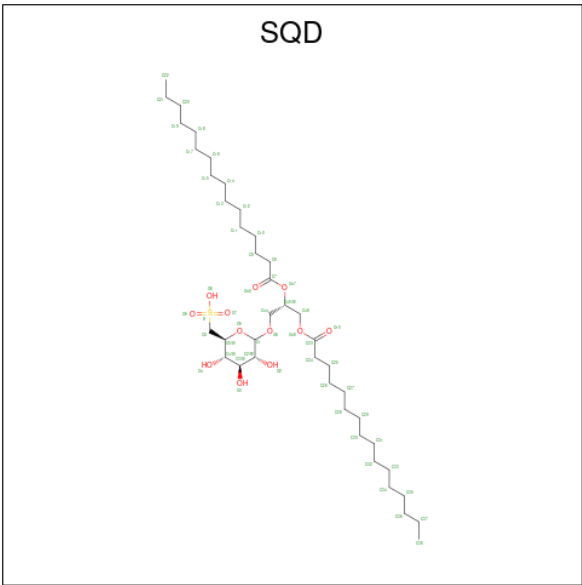


Mol	Chain	Residues	Atoms			AltConf
19	B	1	Total	C	O	0
			55	45	10	

- Molecule 20 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
20	B	1	Total	Mg	0
			1	1	

- Molecule 21 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: $C_{41}H_{78}O_{12}S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
21	X	1	Total	C	O	S	0
			54	41	12	1	

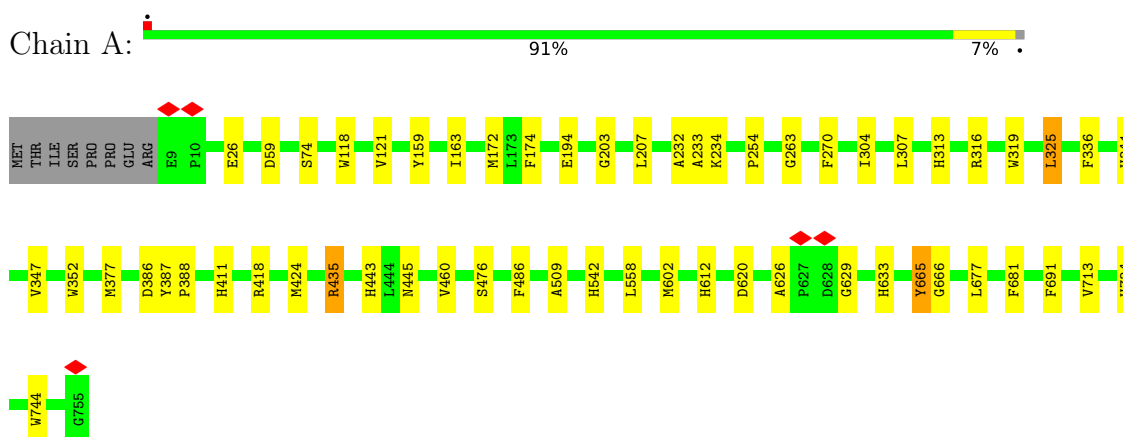
- Molecule 22 is water.

Mol	Chain	Residues	Atoms		AltConf
22	A	348	Total	O	0
			348	348	
22	B	442	Total	O	0
			442	442	
22	C	96	Total	O	0
			96	96	
22	D	107	Total	O	0
			107	107	
22	E	68	Total	O	0
			68	68	
22	F	74	Total	O	0
			74	74	
22	I	5	Total	O	0
			5	5	
22	J	12	Total	O	0
			12	12	
22	K	12	Total	O	0
			12	12	
22	M	13	Total	O	0
			13	13	
22	X	6	Total	O	0
			6	6	

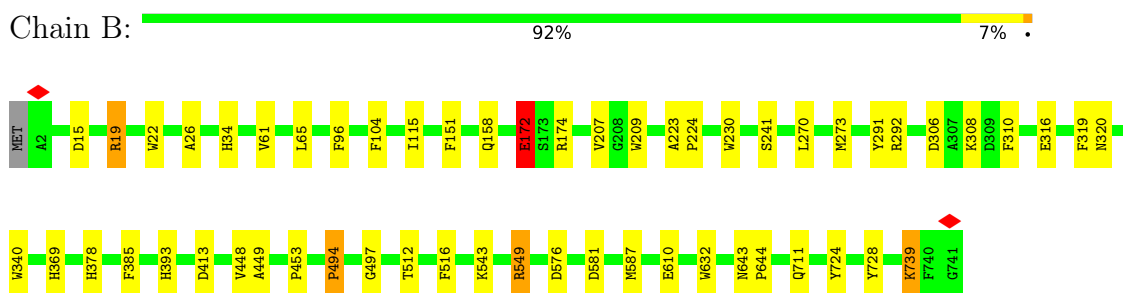
3 Residue-property plots

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

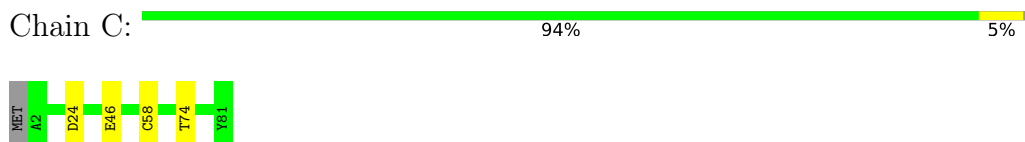
- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1



- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2



- Molecule 3: Photosystem I iron-sulfur center

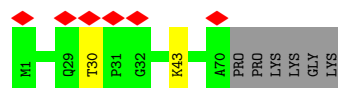
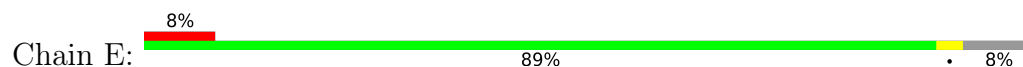


- Molecule 4: Photosystem I reaction center subunit II

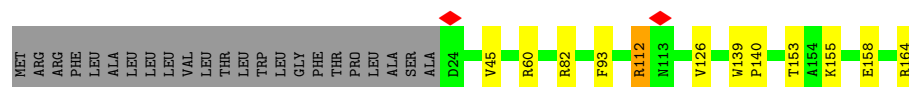




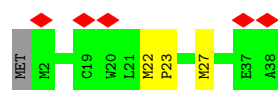
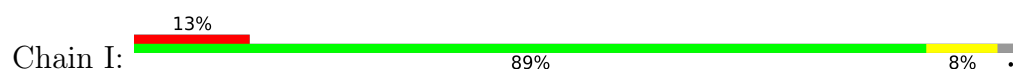
- Molecule 5: Photosystem I reaction center subunit IV



- Molecule 6: Photosystem I reaction center subunit III



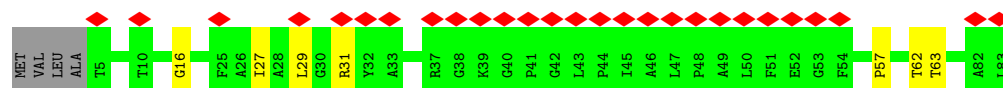
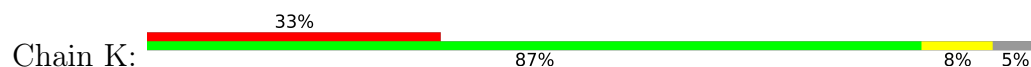
- Molecule 7: Photosystem I reaction center subunit VIII



- Molecule 8: Photosystem I reaction center subunit IX



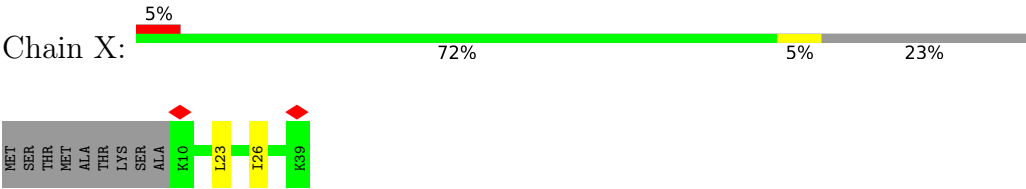
- Molecule 9: Photosystem I reaction center subunit PsaK



- Molecule 10: Photosystem I reaction center subunit XII



- Molecule 11: Photosystem I 4.8K protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	712866	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION; Patch CTF estimation job in CryoSPARC, run with default settings.	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	400	Depositor
Maximum defocus (nm)	1400	Depositor
Magnification	130000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.468	Depositor
Minimum map value	-0.511	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.08	Depositor
Map size (Å)	331.776, 331.776, 331.776	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.648, 0.648, 0.648	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SQD, LMG, SF4, BCR, LHG, CL0, CLA, MG, PQN, LMT

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	0.92	5/6036 (0.1%)	1.13	12/8233 (0.1%)
2	B	0.89	1/6112 (0.0%)	1.12	15/8350 (0.2%)
3	C	0.81	0/608	1.12	1/824 (0.1%)
4	D	0.69	1/1101 (0.1%)	1.11	2/1492 (0.1%)
5	E	0.63	0/559	1.10	1/760 (0.1%)
6	F	0.66	0/1087	1.08	5/1476 (0.3%)
7	I	0.58	0/304	0.85	0/415
8	J	0.58	0/350	1.02	0/477
9	K	0.53	0/585	0.97	0/800
10	M	0.70	0/244	1.05	1/332 (0.3%)
11	X	0.63	0/261	1.00	0/354
All	All	0.84	7/17247 (0.0%)	1.11	37/23513 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
2	B	0	2
4	D	0	1
6	F	0	1
All	All	0	5

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	341	HIS	CE1-NE2	-6.71	1.25	1.32
4	D	117	PRO	CA-CB	6.65	1.58	1.53
1	A	666	GLY	N-CA	5.58	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	304	ILE	CB-CG1	-5.22	1.43	1.53
2	B	378	HIS	CE1-NE2	5.18	1.37	1.32
1	A	734	HIS	CD2-NE2	-5.07	1.32	1.37
1	A	443	HIS	ND1-CE1	5.05	1.37	1.32

All (37) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	665	TYR	O-C-N	-10.84	110.82	122.09
4	D	135	LYS	CB-CA-C	10.19	124.22	108.84
1	A	665	TYR	CA-C-N	-9.29	103.21	121.41
1	A	665	TYR	C-N-CA	-9.29	103.21	121.41
1	A	435	ARG	NE-CZ-NH1	-7.83	113.67	121.50
2	B	172	GLU	CB-CG-CD	7.56	125.45	112.60
6	F	93	PHE	CA-CB-CG	-7.23	106.57	113.80
1	A	665	TYR	N-CA-CB	7.14	120.58	109.94
6	F	112	ARG	NE-CZ-NH2	6.93	125.44	119.20
1	A	411	HIS	CA-CB-CG	-6.71	107.09	113.80
2	B	172	GLU	N-CA-CB	6.42	119.66	110.16
1	A	620	ASP	CA-CB-CG	6.39	119.00	112.60
6	F	112	ARG	NE-CZ-NH1	-6.31	115.19	121.50
2	B	15	ASP	CA-CB-CG	6.15	118.75	112.60
2	B	174	ARG	NE-CZ-NH1	-5.71	115.79	121.50
2	B	104	PHE	CA-CB-CG	-5.67	108.14	113.80
5	E	43	LYS	CB-CA-C	5.52	119.31	109.38
2	B	151	PHE	CA-CB-CG	-5.47	108.33	113.80
2	B	308	LYS	CB-CG-CD	5.47	123.88	111.30
10	M	4	THR	CA-CB-OG1	-5.43	101.45	109.60
1	A	691	PHE	CA-CB-CG	5.40	119.20	113.80
2	B	96	PHE	CA-CB-CG	5.38	119.18	113.80
2	B	739	LYS	N-CA-CB	-5.38	102.01	110.30
1	A	665	TYR	N-CA-C	5.38	117.56	111.11
2	B	19	ARG	NE-CZ-NH1	-5.36	116.14	121.50
2	B	306	ASP	CA-CB-CG	5.32	117.92	112.60
6	F	126	VAL	N-CA-CB	5.28	113.83	110.50
2	B	494	PRO	N-CA-CB	-5.25	96.83	102.60
1	A	234	LYS	CB-CA-C	5.22	120.82	110.17
2	B	516	PHE	CA-CB-CG	-5.21	108.59	113.80
2	B	549	ARG	CD-NE-CZ	5.15	131.61	124.40
1	A	254	PRO	N-CA-C	5.14	120.78	114.35
2	B	393	HIS	CA-CB-CG	-5.13	108.67	113.80
6	F	45	VAL	N-CA-CB	-5.07	103.31	110.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	135	LYS	CB-CG-CD	5.06	122.95	111.30
1	A	313	HIS	CA-CB-CG	-5.03	108.77	113.80
3	C	74	THR	CA-CB-OG1	-5.00	102.10	109.60

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	316	ARG	Sidechain
2	B	19	ARG	Sidechain
2	B	292	ARG	Sidechain
4	D	51	ARG	Sidechain
6	F	164	ARG	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5835	0	5697	52	0
2	B	5894	0	5649	48	0
3	C	598	0	577	3	0
4	D	1075	0	1074	2	0
5	E	547	0	537	0	0
6	F	1065	0	1074	5	0
7	I	293	0	294	4	0
8	J	338	0	347	2	0
9	K	571	0	593	5	0
10	M	241	0	264	0	0
11	X	252	0	260	3	0
12	A	280	0	368	7	0
12	B	140	0	184	2	0
12	F	35	0	46	0	0
12	K	70	0	92	0	0
12	X	35	0	46	0	0
13	A	2860	0	3129	130	0
13	B	2535	0	2775	82	0
13	F	130	0	142	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	J	130	0	143	4	0
13	K	130	0	144	11	0
13	X	65	0	72	1	0
14	A	33	0	46	0	0
14	B	33	0	46	0	0
15	A	240	0	336	30	0
15	B	240	0	334	22	0
15	F	120	0	168	10	0
15	J	80	0	112	8	0
15	K	40	0	56	7	0
15	M	40	0	56	1	0
16	A	147	0	222	1	0
16	I	49	0	74	0	0
16	X	49	0	74	2	0
17	A	8	0	0	0	0
17	C	16	0	0	1	0
18	A	65	0	72	0	0
19	B	55	0	86	0	0
20	B	1	0	0	0	0
21	X	54	0	78	0	0
22	A	348	0	0	2	0
22	B	442	0	0	16	0
22	C	96	0	0	1	0
22	D	107	0	0	0	0
22	E	68	0	0	0	0
22	F	74	0	0	1	0
22	I	5	0	0	0	0
22	J	12	0	0	0	0
22	K	12	0	0	0	0
22	M	13	0	0	0	0
22	X	6	0	0	0	0
All	All	25572	0	25267	340	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 7.

All (340) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:826:CLA:C1	13:A:826:CLA:O2A	1.72	1.36
13:A:826:CLA:C1	13:A:826:CLA:O1A	1.85	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:826:CLA:C1	13:A:826:CLA:CGA	2.25	1.14
1:A:633:HIS:ND1	22:A:901:HOH:O	1.86	1.04
2:B:448:VAL:HG13	22:B:1286:HOH:O	1.58	1.04
2:B:543:LYS:CE	22:B:901:HOH:O	2.06	1.02
15:B:803:BCR:H403	15:B:803:BCR:H23C	1.45	0.96
2:B:543:LYS:NZ	22:B:901:HOH:O	1.93	0.93
4:D:33:THR:OG1	4:D:54:GLU:OE1	1.90	0.89
13:A:823:CLA:H202	13:A:832:CLA:CAC	2.03	0.88
13:A:823:CLA:C20	13:A:832:CLA:HAC2	2.03	0.88
2:B:369:HIS:NE2	22:B:903:HOH:O	2.04	0.88
13:B:842:CLA:H2	15:F:202:BCR:HC42	1.58	0.86
13:A:811:CLA:H42	13:K:104:CLA:HMD2	1.59	0.83
13:A:823:CLA:H202	13:A:832:CLA:HAC1	1.60	0.82
15:A:841:BCR:H331	15:A:841:BCR:HC8	1.60	0.81
15:B:824:BCR:H333	13:B:831:CLA:H92	1.62	0.81
2:B:413:ASP:OD1	22:B:902:HOH:O	2.02	0.77
13:A:808:CLA:H41	15:A:840:BCR:H323	1.65	0.77
13:A:826:CLA:O1A	13:A:826:CLA:C2	2.34	0.75
3:C:46:GLU:OE1	22:C:1101:HOH:O	2.05	0.74
2:B:512:THR:OG1	22:B:904:HOH:O	2.07	0.73
15:B:822:BCR:H382	15:B:822:BCR:H23C	1.69	0.73
13:A:825:CLA:HBB1	13:A:825:CLA:HHC	1.69	0.73
2:B:172:GLU:HB3	2:B:291:TYR:HB3	1.70	0.72
1:A:744:TRP:CZ2	13:A:820:CLA:H2	2.26	0.71
1:A:744:TRP:HZ2	13:A:820:CLA:H12	1.55	0.70
13:A:823:CLA:C20	13:A:832:CLA:CAC	2.66	0.70
15:J:103:BCR:H403	15:J:103:BCR:H23C	1.73	0.70
2:B:453:PRO:HB3	22:B:1286:HOH:O	1.92	0.69
1:A:347:VAL:HG22	1:A:424:MET:HE3	1.73	0.69
16:X:104:LHG:C7	16:X:104:LHG:O8	2.40	0.69
1:A:194:GLU:OE1	22:A:902:HOH:O	2.10	0.69
2:B:549:ARG:NH2	22:B:906:HOH:O	2.21	0.68
15:J:104:BCR:H403	15:J:104:BCR:H23C	1.76	0.68
13:B:819:CLA:HBA2	13:B:819:CLA:CGD	2.24	0.67
13:B:847:CLA:H151	11:X:26:ILE:HG21	1.77	0.67
15:A:841:BCR:H331	15:A:841:BCR:C8	2.21	0.67
2:B:310:PHE:CE1	13:B:845:CLA:H62	2.30	0.66
2:B:310:PHE:CE1	13:B:845:CLA:C6	2.79	0.66
13:A:820:CLA:HMB1	13:A:820:CLA:HBB1	1.76	0.66
2:B:543:LYS:HE2	22:B:901:HOH:O	1.82	0.66
15:F:206:BCR:H331	15:F:206:BCR:C8	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:J:101:CLA:HBB1	13:J:101:CLA:HMB1	1.76	0.65
13:B:847:CLA:C14	11:X:23:LEU:HD22	2.27	0.64
6:F:112:ARG:O	22:F:301:HOH:O	2.15	0.64
13:B:806:CLA:HBB1	13:B:806:CLA:HMB3	1.80	0.64
15:F:206:BCR:H331	15:F:206:BCR:HC8	1.80	0.64
13:A:858:CLA:HHC	13:A:858:CLA:HBB1	1.81	0.63
1:A:542:HIS:HE1	1:A:612:HIS:ND1	1.96	0.63
1:A:270:PHE:CD2	13:K:101:CLA:HMD2	2.34	0.63
13:B:842:CLA:HBB1	13:B:842:CLA:HMB3	1.80	0.63
15:A:838:BCR:H383	15:A:838:BCR:H23C	1.80	0.62
13:K:101:CLA:HMC2	15:K:103:BCR:H383	1.80	0.62
13:K:101:CLA:HHC	13:K:101:CLA:HBB1	1.82	0.61
13:A:818:CLA:HHC	13:A:818:CLA:HBB1	1.83	0.61
13:A:822:CLA:HBB2	15:A:839:BCR:H352	1.82	0.61
1:A:435:ARG:HD2	4:D:13:GLY:O	2.01	0.61
15:A:841:BCR:HC8	15:A:841:BCR:C33	2.31	0.61
13:A:860:CLA:H41	13:A:860:CLA:H72	1.83	0.60
13:A:808:CLA:H41	15:A:840:BCR:C32	2.30	0.60
15:B:803:BCR:H23C	15:B:803:BCR:C40	2.23	0.60
1:A:307:LEU:CD1	13:A:860:CLA:H141	2.32	0.60
1:A:744:TRP:HZ2	13:A:820:CLA:C1	2.14	0.59
1:A:118:TRP:CD2	13:A:856:CLA:HED3	2.38	0.59
13:A:822:CLA:HBB1	13:A:822:CLA:HMB3	1.83	0.59
1:A:159:TYR:CZ	1:A:163:ILE:HD11	2.38	0.58
15:B:803:BCR:H331	15:B:803:BCR:C8	2.34	0.58
13:A:815:CLA:HBB1	13:A:815:CLA:HMB3	1.84	0.58
13:A:828:CLA:H143	13:K:104:CLA:H122	1.84	0.58
1:A:744:TRP:CZ2	13:A:820:CLA:C2	2.85	0.58
13:A:823:CLA:H203	13:A:832:CLA:HAC2	1.83	0.58
2:B:26:ALA:HA	13:B:820:CLA:H42	1.85	0.58
1:A:558:LEU:HD21	13:A:824:CLA:H201	1.84	0.58
1:A:377:MET:SD	13:A:825:CLA:CBB	2.92	0.58
2:B:310:PHE:CE1	13:B:845:CLA:H71	2.39	0.57
15:A:840:BCR:H23C	15:A:840:BCR:H382	1.85	0.57
13:A:856:CLA:O2A	13:A:856:CLA:H42	2.03	0.57
13:A:848:CLA:O1A	13:A:848:CLA:C1A	2.53	0.57
13:A:848:CLA:O1A	13:A:848:CLA:C2A	2.48	0.57
13:A:825:CLA:H93	13:A:825:CLA:C2	2.35	0.57
13:B:846:CLA:HMB3	13:B:846:CLA:HBB1	1.87	0.57
13:B:814:CLA:HBB1	13:B:814:CLA:HMB3	1.87	0.56
13:B:813:CLA:HBB1	13:B:813:CLA:HMB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:B:822:BCR:H23C	15:B:822:BCR:C38	2.36	0.56
1:A:59:ASP:OD1	1:A:418:ARG:NH2	2.39	0.56
15:B:824:BCR:H382	15:B:824:BCR:H23C	1.87	0.56
13:J:102:CLA:HHC	13:J:102:CLA:HBB1	1.88	0.56
13:A:816:CLA:H71	13:A:816:CLA:C2	2.35	0.56
15:B:825:BCR:H331	15:B:825:BCR:C8	2.36	0.56
15:A:838:BCR:H23C	15:A:838:BCR:C38	2.36	0.55
13:B:845:CLA:C1A	13:B:845:CLA:CGA	2.83	0.55
2:B:576:ASP:HB3	2:B:581:ASP:CG	2.30	0.55
1:A:460:VAL:HG11	13:A:849:CLA:H92	1.88	0.55
13:A:811:CLA:H42	13:K:104:CLA:CMD	2.36	0.54
13:B:807:CLA:O1A	6:F:153:THR:HG21	2.07	0.54
13:B:816:CLA:HBB1	13:B:816:CLA:HMB3	1.89	0.54
13:B:815:CLA:H143	13:B:820:CLA:H18	1.89	0.54
15:F:202:BCR:H331	15:F:202:BCR:C8	2.38	0.54
8:J:28:GLU:OE1	8:J:28:GLU:HA	2.06	0.54
13:A:812:CLA:C4	13:A:812:CLA:O2A	2.56	0.53
2:B:543:LYS:CD	22:B:901:HOH:O	2.47	0.53
13:B:807:CLA:HBB1	13:B:807:CLA:HMB3	1.91	0.53
2:B:34:HIS:HE1	13:B:843:CLA:HED1	1.74	0.53
13:A:851:CLA:HBD	13:A:851:CLA:HBA1	1.90	0.53
13:F:204:CLA:HAA2	13:F:204:CLA:HBD	1.91	0.53
13:F:204:CLA:HBB1	13:F:204:CLA:HMB1	1.91	0.53
13:B:831:CLA:HBB2	13:B:835:CLA:H121	1.91	0.53
13:A:856:CLA:H12	15:J:103:BCR:C12	2.39	0.52
13:B:815:CLA:H192	13:B:841:CLA:C15	2.39	0.52
15:B:803:BCR:H403	15:B:803:BCR:C23	2.27	0.52
13:A:822:CLA:HBB1	13:A:822:CLA:CMB	2.39	0.52
1:A:307:LEU:HD12	13:A:860:CLA:H141	1.91	0.52
13:B:849:CLA:HHC	13:B:849:CLA:HBB1	1.91	0.52
13:K:101:CLA:CMC	15:K:103:BCR:H383	2.40	0.52
1:A:352:TRP:HB3	13:A:814:CLA:HAC1	1.90	0.52
15:A:840:BCR:H362	13:B:813:CLA:H2	1.91	0.52
15:A:862:BCR:H383	15:A:862:BCR:H23C	1.92	0.52
2:B:576:ASP:HB3	2:B:581:ASP:OD1	2.09	0.52
15:F:202:BCR:H383	15:F:202:BCR:H23C	1.91	0.52
2:B:576:ASP:OD2	2:B:581:ASP:OD2	2.26	0.52
13:B:805:CLA:CMB	13:B:805:CLA:HBB1	2.40	0.52
13:B:829:CLA:HAA2	13:B:829:CLA:HBD	1.91	0.52
15:A:839:BCR:H383	13:A:861:CLA:H151	1.92	0.51
13:A:809:CLA:H42	13:A:809:CLA:O1A	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:825:CLA:H18	13:A:826:CLA:H141	1.92	0.51
15:B:825:BCR:HC32	13:B:846:CLA:HBB1	1.92	0.51
13:A:810:CLA:CMB	12:A:834:LMT:H111	2.41	0.51
13:A:819:CLA:H61	13:A:829:CLA:HBC3	1.93	0.51
13:B:806:CLA:H92	15:F:203:BCR:H372	1.92	0.51
13:A:823:CLA:H202	13:A:832:CLA:HAC2	1.71	0.51
1:A:744:TRP:CZ2	13:A:820:CLA:H12	2.43	0.51
13:A:827:CLA:CBB	13:A:851:CLA:HBA2	2.41	0.51
12:A:845:LMT:O5B	12:A:845:LMT:H6D	2.11	0.51
13:B:818:CLA:HMC3	13:B:833:CLA:H203	1.93	0.51
1:A:460:VAL:HG12	13:A:848:CLA:HBC2	1.93	0.50
13:A:813:CLA:HMB1	13:A:813:CLA:HBB1	1.93	0.50
13:A:832:CLA:HHC	13:A:832:CLA:HBB1	1.92	0.50
1:A:486:PHE:HB3	13:A:813:CLA:H12	1.94	0.50
1:A:74:SER:OG	13:A:857:CLA:HHD	2.12	0.50
13:A:863:CLA:H42	13:A:863:CLA:O1A	2.12	0.50
12:A:802:LMT:H123	13:A:809:CLA:H92	1.93	0.50
1:A:626:ALA:O	1:A:629:GLY:N	2.44	0.50
13:A:850:CLA:HBB1	13:A:850:CLA:HMB1	1.94	0.50
1:A:172:MET:SD	13:A:810:CLA:H92	2.51	0.49
13:B:845:CLA:HBB1	13:B:845:CLA:HMB1	1.94	0.49
13:A:829:CLA:H51	13:A:829:CLA:C9	2.42	0.49
1:A:387:TYR:N	1:A:388:PRO:CD	2.75	0.49
1:A:558:LEU:HD21	13:A:824:CLA:C20	2.42	0.49
15:B:803:BCR:H331	15:B:803:BCR:HC8	1.93	0.49
13:J:102:CLA:CGA	13:J:102:CLA:C1A	2.91	0.49
2:B:632:TRP:CZ3	22:B:1337:HOH:O	2.54	0.49
13:B:816:CLA:CBA	13:B:816:CLA:HBD	2.42	0.49
13:B:816:CLA:HBD	13:B:816:CLA:HBA2	1.95	0.49
15:J:103:BCR:C8	15:J:103:BCR:H331	2.43	0.49
15:B:822:BCR:H331	15:B:822:BCR:C8	2.41	0.49
13:A:855:CLA:HMB3	13:A:855:CLA:HBB1	1.94	0.49
13:B:843:CLA:H172	7:I:27:MET:HE1	1.95	0.49
13:A:811:CLA:HBC3	13:A:811:CLA:HHD	1.95	0.49
15:K:103:BCR:C8	15:K:103:BCR:H321	2.43	0.49
15:K:103:BCR:HC8	15:K:103:BCR:H311	1.94	0.49
13:A:861:CLA:H42	13:A:861:CLA:O2A	2.13	0.49
2:B:223:ALA:HB3	2:B:224:PRO:HD3	1.93	0.49
13:B:805:CLA:HBB1	13:B:805:CLA:HMB3	1.94	0.49
1:A:744:TRP:CZ2	13:A:820:CLA:C1	2.95	0.48
13:A:825:CLA:H203	13:A:828:CLA:H141	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:155:LYS:O	6:F:158:GLU:HG2	2.13	0.48
13:A:855:CLA:HBB1	13:A:855:CLA:CMB	2.43	0.48
2:B:543:LYS:HD3	22:B:901:HOH:O	2.09	0.48
13:B:808:CLA:H152	15:B:822:BCR:H363	1.94	0.48
13:B:815:CLA:H192	13:B:841:CLA:H151	1.96	0.48
1:A:307:LEU:HD13	13:A:860:CLA:H141	1.96	0.48
13:A:858:CLA:CGA	13:A:858:CLA:C1A	2.92	0.48
13:A:808:CLA:C5	13:A:808:CLA:H93	2.44	0.48
13:B:843:CLA:H71	13:B:844:CLA:H203	1.94	0.48
13:B:805:CLA:HAB	15:F:202:BCR:H323	1.96	0.48
13:A:812:CLA:HBB1	13:A:812:CLA:HMB3	1.95	0.47
13:A:833:CLA:H52	15:A:838:BCR:C18	2.44	0.47
15:A:839:BCR:H11C	15:A:839:BCR:H341	1.77	0.47
2:B:497:GLY:HA3	13:B:819:CLA:H52	1.95	0.47
13:F:204:CLA:C1D	8:J:18:TRP:HE1	2.27	0.47
1:A:159:TYR:CE2	1:A:163:ILE:HD11	2.49	0.47
13:A:808:CLA:C4	15:A:840:BCR:H323	2.42	0.47
13:A:850:CLA:HBB1	13:A:850:CLA:CMB	2.44	0.47
13:A:853:CLA:H143	13:F:204:CLA:CBC	2.44	0.47
2:B:310:PHE:CE1	13:B:845:CLA:C7	2.97	0.47
2:B:728:TYR:HB2	13:B:834:CLA:HED2	1.97	0.47
1:A:509:ALA:HB1	13:A:825:CLA:HBB2	1.95	0.47
13:A:857:CLA:H192	15:J:104:BCR:H371	1.95	0.47
7:I:22:MET:HB3	7:I:23:PRO:HD3	1.96	0.47
13:A:848:CLA:HAA1	13:A:848:CLA:HBD	1.96	0.47
15:B:822:BCR:C38	15:B:822:BCR:C23	2.93	0.47
2:B:22:TRP:CG	2:B:711:GLN:HE22	2.33	0.47
13:B:818:CLA:HAB	13:B:833:CLA:H201	1.97	0.47
1:A:319:TRP:CZ2	13:A:861:CLA:H43	2.50	0.47
2:B:270:LEU:HD23	2:B:273:MET:HE3	1.97	0.47
1:A:665:TYR:O	2:B:449:ALA:O	2.33	0.46
15:B:824:BCR:H331	15:B:824:BCR:C8	2.44	0.46
1:A:121:VAL:HB	13:B:842:CLA:HMD1	1.97	0.46
13:A:817:CLA:HBA2	13:A:817:CLA:C4A	2.45	0.46
7:I:27:MET:HE3	7:I:27:MET:HA	1.98	0.46
15:J:104:BCR:H11C	15:J:104:BCR:H341	1.79	0.46
1:A:263:GLY:HA3	13:A:817:CLA:OBD	2.15	0.46
13:B:843:CLA:CMB	13:B:843:CLA:HBB1	2.45	0.46
1:A:194:GLU:HG3	1:A:325:LEU:HD12	1.98	0.46
13:A:826:CLA:O1A	13:A:826:CLA:H2	2.15	0.46
13:B:842:CLA:H71	13:B:842:CLA:H41	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:822:CLA:HED1	12:A:835:LMT:O2B	2.15	0.46
13:A:829:CLA:H51	13:A:829:CLA:H93	1.98	0.46
13:B:847:CLA:H142	11:X:23:LEU:HD22	1.98	0.45
13:A:832:CLA:HAC1	13:A:832:CLA:HHD	1.78	0.45
13:B:809:CLA:H192	13:B:809:CLA:H152	1.98	0.45
13:A:819:CLA:HED3	13:A:829:CLA:H2	1.98	0.45
13:A:851:CLA:HMB1	13:A:851:CLA:HBB1	1.98	0.45
13:B:847:CLA:HBB1	13:B:847:CLA:HMB1	1.98	0.45
1:A:744:TRP:HZ2	13:A:820:CLA:C2	2.27	0.45
9:K:16:GLY:HA2	13:K:101:CLA:OBD	2.17	0.45
2:B:241:SER:O	22:B:907:HOH:O	2.21	0.45
13:B:806:CLA:C1A	13:B:806:CLA:CGA	2.94	0.45
15:A:840:BCR:H331	15:A:840:BCR:C8	2.46	0.45
13:A:844:CLA:CGA	13:A:856:CLA:H42	2.47	0.45
1:A:307:LEU:HD21	13:A:825:CLA:H201	1.98	0.45
16:A:843:LHG:H182	16:A:843:LHG:C32	2.47	0.45
2:B:385:PHE:CE1	2:B:587:MET:HE1	2.52	0.45
2:B:724:TYR:CE1	13:B:834:CLA:HED1	2.52	0.45
13:B:840:CLA:H91	7:I:22:MET:SD	2.57	0.45
15:K:103:BCR:H11C	15:K:103:BCR:H341	1.85	0.45
13:A:805:CLA:C19	15:A:842:BCR:H363	2.46	0.45
13:A:811:CLA:H18	13:K:104:CLA:H3A	1.98	0.45
13:A:832:CLA:H43	15:B:826:BCR:H372	1.98	0.45
13:B:816:CLA:H71	13:B:816:CLA:H2	1.99	0.45
13:A:817:CLA:H42	15:A:862:BCR:HC31	1.99	0.45
13:B:831:CLA:H3A	13:B:831:CLA:HBA2	1.78	0.44
13:B:849:CLA:CBB	13:B:850:CLA:HAB	2.47	0.44
13:A:827:CLA:HBB1	13:A:851:CLA:HBA2	1.99	0.44
15:B:803:BCR:H24C	15:B:803:BCR:H371	1.68	0.44
15:F:206:BCR:H20C	15:F:206:BCR:H361	1.87	0.44
13:A:856:CLA:O2A	13:A:856:CLA:C4	2.65	0.44
2:B:610:GLU:HG3	2:B:739:LYS:HE3	2.00	0.44
13:B:816:CLA:HBB1	13:B:816:CLA:CMB	2.46	0.44
15:F:206:BCR:H11C	15:F:206:BCR:H341	1.82	0.44
15:A:862:BCR:H331	15:A:862:BCR:C8	2.47	0.44
2:B:209:TRP:CE2	13:B:833:CLA:H42	2.52	0.44
13:B:815:CLA:H192	13:B:841:CLA:H152	1.99	0.44
13:B:843:CLA:H92	13:B:844:CLA:H203	2.00	0.44
13:A:825:CLA:C20	13:A:828:CLA:H141	2.47	0.44
1:A:203:GLY:O	1:A:207:LEU:HB2	2.18	0.44
2:B:310:PHE:CE1	13:B:845:CLA:C5	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:859:CLA:H171	13:K:104:CLA:CAB	2.48	0.44
13:B:813:CLA:HAA2	13:B:813:CLA:HBD	2.00	0.43
9:K:27:ILE:HA	9:K:62:THR:HB	2.00	0.43
13:A:811:CLA:HMB3	15:A:838:BCR:H282	1.99	0.43
13:A:825:CLA:H92	13:A:825:CLA:H62	1.90	0.43
2:B:643:ASN:HB2	2:B:644:PRO:CD	2.47	0.43
13:B:843:CLA:H161	13:B:843:CLA:H101	2.00	0.43
15:F:203:BCR:H341	15:F:203:BCR:H11C	1.82	0.43
13:A:856:CLA:C1	15:J:103:BCR:C12	2.96	0.43
13:A:849:CLA:H143	13:B:840:CLA:HMB3	2.01	0.43
13:B:841:CLA:HHC	13:B:841:CLA:HBB1	2.01	0.43
1:A:713:VAL:HG21	13:A:853:CLA:HMB2	2.01	0.43
2:B:61:VAL:HG21	13:B:814:CLA:H42	2.01	0.43
2:B:65:LEU:HD11	15:B:802:BCR:H271	2.00	0.43
2:B:230:TRP:HZ2	13:B:832:CLA:H121	1.82	0.43
13:A:823:CLA:HBB1	13:A:823:CLA:HMB3	2.00	0.43
15:A:842:BCR:H11C	15:A:842:BCR:H341	1.85	0.43
2:B:576:ASP:CG	2:B:581:ASP:OD2	2.62	0.43
13:A:825:CLA:H93	13:A:825:CLA:C3	2.49	0.43
9:K:63:THR:OG1	15:K:103:BCR:H362	2.19	0.43
1:A:677:LEU:HD13	13:B:813:CLA:H42	2.01	0.42
1:A:681:PHE:CG	15:A:840:BCR:H363	2.54	0.42
2:B:115:ILE:O	13:B:815:CLA:HMD3	2.18	0.42
2:B:207:VAL:O	22:B:908:HOH:O	2.21	0.42
13:B:814:CLA:HBA1	13:B:814:CLA:C4A	2.49	0.42
16:X:104:LHG:O8	16:X:104:LHG:O9	2.37	0.42
2:B:316:GLU:H	2:B:320:ASN:ND2	2.18	0.42
2:B:632:TRP:CH2	22:B:1337:HOH:O	2.73	0.42
1:A:174:PHE:HD2	13:A:831:CLA:CBC	2.31	0.42
15:A:862:BCR:H351	15:A:862:BCR:H15C	1.86	0.42
15:B:802:BCR:H15C	15:B:802:BCR:H351	1.94	0.42
3:C:24:ASP:O	3:C:24:ASP:CG	2.63	0.42
1:A:681:PHE:CD2	15:A:840:BCR:H363	2.54	0.42
13:A:832:CLA:H91	13:A:832:CLA:H121	2.02	0.42
2:B:158:GLN:OE1	12:B:851:LMT:H3B	2.20	0.42
6:F:139:TRP:CG	6:F:140:PRO:HD3	2.54	0.42
13:A:812:CLA:O2A	13:A:812:CLA:H43	2.20	0.42
13:A:820:CLA:O1A	13:A:820:CLA:H42	2.19	0.42
13:A:823:CLA:C1A	13:A:823:CLA:CGA	2.98	0.42
15:A:839:BCR:H20C	15:A:839:BCR:H361	1.77	0.42
15:B:802:BCR:H351	13:B:814:CLA:H191	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:K:103:BCR:H15C	15:K:103:BCR:H351	1.78	0.42
1:A:558:LEU:CD2	13:A:824:CLA:H201	2.47	0.42
13:A:821:CLA:HMA3	13:A:824:CLA:HMB3	2.01	0.42
13:A:831:CLA:H92	12:A:834:LMT:H51	2.00	0.42
13:B:846:CLA:H91	13:B:846:CLA:H112	1.90	0.42
13:A:861:CLA:O2A	13:A:861:CLA:C4	2.67	0.42
15:B:826:BCR:H15C	15:B:826:BCR:H351	1.86	0.42
13:J:102:CLA:C1C	15:J:104:BCR:H342	2.50	0.42
2:B:34:HIS:CE1	13:B:843:CLA:HED1	2.53	0.41
15:B:824:BCR:H15C	15:B:824:BCR:H351	1.93	0.41
13:A:820:CLA:C4A	13:A:820:CLA:HBA2	2.50	0.41
13:B:820:CLA:H111	13:B:820:CLA:H91	1.95	0.41
13:K:101:CLA:C4A	13:K:101:CLA:HBA1	2.50	0.41
13:X:102:CLA:CMB	13:X:102:CLA:HBB1	2.50	0.41
15:A:841:BCR:H383	15:A:841:BCR:H23C	2.02	0.41
15:A:842:BCR:H15C	15:A:842:BCR:H351	1.95	0.41
13:B:838:CLA:HBB1	13:B:838:CLA:HMB1	2.01	0.41
13:A:853:CLA:H121	13:F:204:CLA:HBC3	2.02	0.41
6:F:60:ARG:HH21	6:F:60:ARG:HG3	1.85	0.41
13:A:856:CLA:HBA1	13:A:856:CLA:HBD	2.03	0.41
2:B:340:TRP:HE1	13:B:810:CLA:C2B	2.33	0.41
1:A:232:ALA:O	1:A:233:ALA:C	2.63	0.41
13:B:845:CLA:HBA2	22:B:1222:HOH:O	2.20	0.41
15:A:838:BCR:H392	15:A:838:BCR:H24C	1.84	0.41
13:A:859:CLA:CHD	15:A:862:BCR:H382	2.50	0.41
2:B:576:ASP:CB	2:B:581:ASP:CG	2.93	0.41
1:A:336:PHE:CZ	13:A:830:CLA:HED2	2.55	0.41
1:A:377:MET:SD	13:A:825:CLA:HBB1	2.61	0.41
13:A:822:CLA:HBD	12:A:835:LMT:H1'	2.03	0.41
13:A:859:CLA:C2	9:K:29:LEU:HD21	2.50	0.41
13:B:811:CLA:HMB3	13:B:811:CLA:HBB1	2.03	0.41
1:A:386:ASP:OD1	1:A:388:PRO:HD2	2.21	0.41
13:A:860:CLA:CGA	13:A:860:CLA:C1A	2.99	0.41
1:A:445:ASN:OD1	13:A:863:CLA:HED2	2.21	0.41
13:A:831:CLA:H42	12:A:834:LMT:H22	2.03	0.41
12:B:827:LMT:H121	13:B:833:CLA:C20	2.51	0.41
13:B:807:CLA:HAC2	13:B:807:CLA:HHD	1.78	0.40
13:B:844:CLA:HMC2	13:B:844:CLA:H92	2.02	0.40
13:A:824:CLA:HMB3	13:A:824:CLA:HBB1	2.03	0.40
13:A:851:CLA:HBB1	13:A:851:CLA:CMB	2.50	0.40
1:A:602:MET:HG2	13:A:806:CLA:HBC1	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:A:841:BCR:H11C	15:A:841:BCR:H341	1.91	0.40
13:B:809:CLA:HAA2	13:B:810:CLA:CAB	2.51	0.40
13:F:201:CLA:HHC	13:F:201:CLA:HBB1	2.03	0.40
1:A:319:TRP:HB3	9:K:57:PRO:HB3	2.02	0.40
2:B:310:PHE:HE1	13:B:845:CLA:H62	1.84	0.40
3:C:58:CYS:HA	17:C:1001:SF4:S4	2.62	0.40
15:M:101:BCR:H331	15:M:101:BCR:C8	2.51	0.40
13:A:812:CLA:HBB1	13:A:812:CLA:CMB	2.51	0.40
13:A:850:CLA:CGA	13:A:850:CLA:H3A	2.51	0.40
13:B:808:CLA:CMB	13:B:808:CLA:HBB1	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	745/755 (99%)	727 (98%)	18 (2%)	0	100	100
2	B	738/741 (100%)	725 (98%)	13 (2%)	0	100	100
3	C	78/81 (96%)	78 (100%)	0	0	100	100
4	D	136/139 (98%)	131 (96%)	4 (3%)	1 (1%)	18	6
5	E	68/76 (90%)	65 (96%)	3 (4%)	0	100	100
6	F	139/164 (85%)	137 (99%)	2 (1%)	0	100	100
7	I	35/38 (92%)	34 (97%)	1 (3%)	0	100	100
8	J	39/41 (95%)	38 (97%)	1 (3%)	0	100	100
9	K	77/83 (93%)	76 (99%)	1 (1%)	0	100	100
10	M	29/31 (94%)	29 (100%)	0	0	100	100
11	X	28/39 (72%)	28 (100%)	0	0	100	100
All	All	2112/2188 (96%)	2068 (98%)	43 (2%)	1 (0%)	100	100

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	D	45	ALA

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	595/603 (99%)	592 (100%)	3 (0%)	81	75
2	B	597/598 (100%)	594 (100%)	3 (0%)	81	75
3	C	67/68 (98%)	67 (100%)	0	100	100
4	D	115/116 (99%)	114 (99%)	1 (1%)	70	59
5	E	60/65 (92%)	59 (98%)	1 (2%)	53	32
6	F	109/128 (85%)	108 (99%)	1 (1%)	70	59
7	I	31/32 (97%)	31 (100%)	0	100	100
8	J	36/36 (100%)	36 (100%)	0	100	100
9	K	58/61 (95%)	57 (98%)	1 (2%)	53	32
10	M	26/26 (100%)	26 (100%)	0	100	100
11	X	24/31 (77%)	24 (100%)	0	100	100
All	All	1718/1764 (97%)	1708 (99%)	10 (1%)	76	71

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	26	GLU
1	A	325	LEU
1	A	476	SER
2	B	172	GLU
2	B	319	PHE
2	B	494	PRO
4	D	127	SER
5	E	30	THR
6	F	82	ARG

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Mol	Chain	Res	Type
9	K	31	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	135	HIS
1	A	542	HIS
1	A	641	GLN
1	A	718	GLN
1	A	726	GLN
2	B	34	HIS
2	B	41	ASN
2	B	83	ASN
2	B	320	ASN
2	B	367	GLN
2	B	369	HIS
2	B	617	ASN
3	C	16	GLN
4	D	71	GLN
4	D	79	ASN
5	E	3	GLN
5	E	60	ASN
6	F	118	ASN
9	K	23	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 139 ligands modelled in this entry, 1 is monoatomic - leaving 138 for Mogul analysis.

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$
15	BCR	B	825	-	41,41,41	1.61	7 (17%)	56,56,56	1.56	12 (21%)
13	CLA	A	860	1	69,73,73	1.66	15 (21%)	83,113,113	3.13	35 (42%)
16	LHG	A	852	-	48,48,48	0.75	1 (2%)	51,54,54	0.60	1 (1%)
13	CLA	B	829	2	69,73,73	1.94	15 (21%)	83,113,113	3.02	33 (39%)
13	CLA	A	810	1	69,73,73	1.79	17 (24%)	83,113,113	2.68	27 (32%)
16	LHG	A	843	13	48,48,48	0.51	0	51,54,54	1.03	4 (7%)
17	SF4	C	1001	3	0,12,12	-	-	-	-	-
15	BCR	A	842	-	41,41,41	1.76	8 (19%)	56,56,56	1.45	10 (17%)
15	BCR	F	202	-	41,41,41	1.44	5 (12%)	56,56,56	1.57	8 (14%)
13	CLA	B	808	2	69,73,73	1.56	15 (21%)	83,113,113	2.06	27 (32%)
13	CLA	A	805	1	69,73,73	1.73	18 (26%)	83,113,113	2.68	23 (27%)
13	CLA	B	806	2	69,73,73	1.67	12 (17%)	83,113,113	2.00	24 (28%)
12	LMT	B	827	-	36,36,36	0.36	0	47,47,47	0.57	0
13	CLA	A	816	1	69,73,73	1.84	15 (21%)	83,113,113	2.75	30 (36%)
18	CL0	A	847	1	69,73,73	1.53	11 (15%)	83,113,113	2.33	28 (33%)
12	LMT	B	852	-	36,36,36	0.34	0	47,47,47	0.75	2 (4%)
13	CLA	A	826	1	69,73,73	2.21	20 (28%)	83,113,113	3.18	32 (38%)
12	LMT	F	205	-	36,36,36	0.28	0	47,47,47	0.54	0
13	CLA	A	807	1	69,73,73	1.77	13 (18%)	83,113,113	2.85	30 (36%)
13	CLA	A	848	1	69,73,73	1.78	18 (26%)	83,113,113	3.51	38 (45%)
13	CLA	F	204	22	69,73,73	1.73	15 (21%)	83,113,113	3.30	28 (33%)
13	CLA	A	854	1,13	69,73,73	1.66	16 (23%)	83,113,113	2.61	21 (25%)
13	CLA	B	837	2	69,73,73	1.72	18 (26%)	83,113,113	2.73	23 (27%)
13	CLA	K	104	22	69,73,73	1.98	17 (24%)	83,113,113	3.00	24 (28%)
12	LMT	B	851	-	36,36,36	0.27	0	47,47,47	0.68	1 (2%)
15	BCR	M	101	-	41,41,41	1.66	8 (19%)	56,56,56	1.44	9 (16%)
12	LMT	A	802	-	36,36,36	0.20	0	47,47,47	0.41	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
13	CLA	A	811	1	69,73,73	1.79	14 (20%)	83,113,113	2.88	34 (40%)
13	CLA	A	832	1	69,73,73	1.61	14 (20%)	83,113,113	2.65	28 (33%)
13	CLA	A	859	1	69,73,73	1.94	16 (23%)	83,113,113	2.98	27 (32%)
13	CLA	A	820	1	69,73,73	1.76	18 (26%)	83,113,113	2.41	27 (32%)
13	CLA	B	805	2	69,73,73	1.46	13 (18%)	83,113,113	2.61	28 (33%)
21	SQD	X	101	-	53,54,54	0.54	1 (1%)	62,65,65	1.52	7 (11%)
13	CLA	B	814	2	69,73,73	1.67	13 (18%)	83,113,113	2.41	24 (28%)
12	LMT	K	102	-	36,36,36	0.28	0	47,47,47	0.51	1 (2%)
13	CLA	A	861	1	69,73,73	1.61	12 (17%)	83,113,113	2.70	29 (34%)
15	BCR	A	862	-	41,41,41	1.66	12 (29%)	56,56,56	1.55	8 (14%)
13	CLA	B	848	22	69,73,73	1.51	11 (15%)	83,113,113	2.04	21 (25%)
15	BCR	B	802	-	41,41,41	2.25	11 (26%)	56,56,56	2.84	15 (26%)
14	PQN	B	823	-	34,34,34	0.69	1 (2%)	42,45,45	0.60	0
13	CLA	A	856	1	69,73,73	1.64	10 (14%)	83,113,113	2.78	29 (34%)
15	BCR	A	838	-	41,41,41	1.57	7 (17%)	56,56,56	1.53	14 (25%)
13	CLA	A	822	22	69,73,73	1.91	14 (20%)	83,113,113	2.57	29 (34%)
13	CLA	B	820	2	69,73,73	1.50	15 (21%)	83,113,113	2.83	30 (36%)
15	BCR	B	803	-	41,41,41	1.63	7 (17%)	56,56,56	1.45	9 (16%)
13	CLA	A	812	1	69,73,73	1.84	15 (21%)	83,113,113	2.63	29 (34%)
13	CLA	A	850	-	69,73,73	1.61	14 (20%)	83,113,113	2.62	31 (37%)
13	CLA	B	836	2	69,73,73	1.61	13 (18%)	83,113,113	2.62	24 (28%)
15	BCR	A	840	-	41,41,41	1.71	8 (19%)	56,56,56	1.36	9 (16%)
15	BCR	B	822	-	41,41,41	1.57	7 (17%)	56,56,56	1.24	5 (8%)
13	CLA	B	834	2	69,73,73	1.45	15 (21%)	83,113,113	2.32	24 (28%)
13	CLA	J	102	8	69,73,73	1.94	16 (23%)	83,113,113	2.99	30 (36%)
12	LMT	B	801	-	36,36,36	0.35	0	47,47,47	0.76	2 (4%)
13	CLA	B	840	2	69,73,73	1.55	13 (18%)	83,113,113	2.88	33 (39%)
15	BCR	A	839	-	41,41,41	1.53	6 (14%)	56,56,56	1.44	8 (14%)
13	CLA	B	819	22	69,73,73	2.00	15 (21%)	83,113,113	3.07	29 (34%)
13	CLA	A	824	22	69,73,73	1.73	16 (23%)	83,113,113	2.64	27 (32%)
13	CLA	B	828	2	69,73,73	1.69	13 (18%)	83,113,113	2.72	30 (36%)
13	CLA	F	201	22	69,73,73	1.76	15 (21%)	83,113,113	2.85	27 (32%)
12	LMT	A	845	-	36,36,36	0.47	0	47,47,47	0.71	0
13	CLA	B	845	22	69,73,73	2.00	16 (23%)	83,113,113	2.59	27 (32%)
12	LMT	K	105	-	36,36,36	0.30	0	47,47,47	0.72	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
13	CLA	X	102	11	69,73,73	1.62	15 (21%)	83,113,113	2.12	22 (26%)
19	LMG	B	804	-	55,55,55	0.80	2 (3%)	63,63,63	0.59	0
13	CLA	A	808	1	69,73,73	1.94	20 (28%)	83,113,113	2.85	35 (42%)
13	CLA	B	807	2	69,73,73	1.69	17 (24%)	83,113,113	2.22	24 (28%)
13	CLA	B	850	2	69,73,73	1.68	16 (23%)	83,113,113	2.08	24 (28%)
13	CLA	B	849	2	69,73,73	1.44	12 (17%)	83,113,113	2.09	19 (22%)
15	BCR	J	104	-	41,41,41	1.50	7 (17%)	56,56,56	2.21	11 (19%)
13	CLA	A	809	1	69,73,73	1.76	16 (23%)	83,113,113	2.57	30 (36%)
13	CLA	B	842	2	69,73,73	1.75	18 (26%)	83,113,113	2.93	33 (39%)
13	CLA	B	815	2	69,73,73	1.62	14 (20%)	83,113,113	2.46	25 (30%)
15	BCR	B	826	-	41,41,41	1.57	7 (17%)	56,56,56	1.47	11 (19%)
13	CLA	A	815	1	69,73,73	1.57	13 (18%)	83,113,113	2.20	22 (26%)
15	BCR	A	841	-	41,41,41	1.79	11 (26%)	56,56,56	1.62	13 (23%)
15	BCR	F	206	-	41,41,41	1.65	10 (24%)	56,56,56	1.48	8 (14%)
13	CLA	A	863	-	69,73,73	1.47	14 (20%)	83,113,113	2.69	27 (32%)
13	CLA	B	816	2	69,73,73	1.60	12 (17%)	83,113,113	2.86	27 (32%)
13	CLA	A	851	22	69,73,73	1.76	14 (20%)	83,113,113	2.86	26 (31%)
12	LMT	A	804	-	36,36,36	0.26	0	47,47,47	0.56	0
16	LHG	I	101	-	48,48,48	0.27	0	51,54,54	0.34	0
13	CLA	A	817	1	69,73,73	1.69	14 (20%)	83,113,113	2.94	36 (43%)
13	CLA	A	827	1	69,73,73	1.84	15 (21%)	83,113,113	2.97	29 (34%)
13	CLA	A	857	1,13	69,73,73	1.71	15 (21%)	83,113,113	2.39	20 (24%)
13	CLA	B	818	2	69,73,73	1.78	13 (18%)	83,113,113	2.69	30 (36%)
15	BCR	F	203	-	41,41,41	1.62	8 (19%)	56,56,56	1.61	10 (17%)
17	SF4	A	846	1,2	0,12,12	-	-	-	-	-
16	LHG	X	104	-	48,48,48	0.35	0	51,54,54	0.43	0
13	CLA	A	828	1	69,73,73	1.73	15 (21%)	83,113,113	2.37	31 (37%)
12	LMT	A	836	-	36,36,36	0.19	0	47,47,47	0.50	0
13	CLA	B	839	22	69,73,73	1.76	16 (23%)	83,113,113	2.59	25 (30%)
13	CLA	A	829	1	69,73,73	1.56	14 (20%)	83,113,113	2.57	24 (28%)
13	CLA	A	855	1	69,73,73	1.68	15 (21%)	83,113,113	2.84	29 (34%)
13	CLA	A	853	1	69,73,73	1.59	14 (20%)	83,113,113	2.74	30 (36%)
13	CLA	B	811	2	69,73,73	1.86	17 (24%)	83,113,113	2.40	25 (30%)
13	CLA	K	101	-	69,73,73	2.02	19 (27%)	83,113,113	3.16	27 (32%)
13	CLA	A	821	22	69,73,73	1.89	15 (21%)	83,113,113	2.91	24 (28%)
13	CLA	B	847	2	69,73,73	1.97	13 (18%)	83,113,113	2.28	22 (26%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
12	LMT	X	103	-	36,36,36	0.39	0	47,47,47	0.47	0
12	LMT	A	835	-	36,36,36	0.43	0	47,47,47	0.81	1 (2%)
13	CLA	A	831	1	69,73,73	1.78	17 (24%)	83,113,113	2.80	25 (30%)
16	LHG	A	864	-	48,48,48	0.29	0	51,54,54	0.35	0
13	CLA	A	833	1	69,73,73	1.65	15 (21%)	83,113,113	2.81	29 (34%)
13	CLA	B	833	2	69,73,73	1.53	12 (17%)	83,113,113	2.69	28 (33%)
13	CLA	B	810	2	69,73,73	1.68	15 (21%)	83,113,113	1.87	23 (27%)
13	CLA	A	844	1	69,73,73	1.88	15 (21%)	83,113,113	2.72	32 (38%)
13	CLA	A	830	16	69,73,73	1.85	16 (23%)	83,113,113	2.92	29 (34%)
13	CLA	B	835	2	69,73,73	1.76	13 (18%)	83,113,113	3.04	37 (44%)
15	BCR	K	103	-	41,41,41	2.00	7 (17%)	56,56,56	2.01	13 (23%)
15	BCR	B	824	-	41,41,41	1.50	5 (12%)	56,56,56	1.28	8 (14%)
14	PQN	A	837	-	34,34,34	0.65	0	42,45,45	0.64	0
13	CLA	A	813	1	69,73,73	1.95	15 (21%)	83,113,113	2.93	29 (34%)
13	CLA	A	825	1	69,73,73	1.71	14 (20%)	83,113,113	2.85	23 (27%)
12	LMT	A	834	-	36,36,36	0.38	0	47,47,47	0.92	3 (6%)
13	CLA	B	821	2	69,73,73	1.57	17 (24%)	83,113,113	2.61	28 (33%)
13	CLA	B	841	2	69,73,73	1.58	11 (15%)	83,113,113	3.11	30 (36%)
13	CLA	B	838	2	69,73,73	1.80	15 (21%)	83,113,113	2.05	19 (22%)
13	CLA	A	806	22	69,73,73	1.61	10 (14%)	83,113,113	2.86	33 (39%)
13	CLA	B	843	2	69,73,73	1.70	15 (21%)	83,113,113	2.90	28 (33%)
13	CLA	A	814	1	69,73,73	1.86	16 (23%)	83,113,113	2.92	32 (38%)
13	CLA	B	831	2	69,73,73	1.81	15 (21%)	83,113,113	2.81	31 (37%)
13	CLA	A	823	1	69,73,73	1.54	16 (23%)	83,113,113	2.42	27 (32%)
17	SF4	C	1002	3	0,12,12	-	-	-	-	-
13	CLA	A	849	22	69,73,73	1.64	15 (21%)	83,113,113	2.71	30 (36%)
13	CLA	A	858	1	69,73,73	1.49	14 (20%)	83,113,113	2.76	32 (38%)
12	LMT	A	801	-	36,36,36	0.68	0	47,47,47	1.50	5 (10%)
13	CLA	B	844	2	69,73,73	1.64	11 (15%)	83,113,113	1.99	20 (24%)
13	CLA	A	819	1	69,73,73	1.94	21 (30%)	83,113,113	2.93	25 (30%)
13	CLA	B	830	2	69,73,73	1.42	11 (15%)	83,113,113	1.83	18 (21%)
13	CLA	B	832	2	69,73,73	1.80	15 (21%)	83,113,113	3.07	34 (40%)
13	CLA	J	101	8	69,73,73	1.98	16 (23%)	83,113,113	3.11	32 (38%)
15	BCR	J	103	-	41,41,41	1.62	10 (24%)	56,56,56	1.45	11 (19%)
13	CLA	B	813	22	69,73,73	1.55	14 (20%)	83,113,113	2.95	28 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
13	CLA	A	818	1	69,73,73	1.82	19 (27%)	83,113,113	2.61	32 (38%)
13	CLA	B	817	2	69,73,73	1.73	15 (21%)	83,113,113	2.85	27 (32%)
13	CLA	B	809	22	69,73,73	1.67	13 (18%)	83,113,113	2.27	21 (25%)
13	CLA	B	846	22	69,73,73	1.74	15 (21%)	83,113,113	2.17	25 (30%)
12	LMT	A	803	-	36,36,36	0.23	0	47,47,47	0.61	1 (2%)

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
15	BCR	B	825	-	-	2/29/63/63	0/2/2/2
13	CLA	A	860	1	1/1/15/20	9/39/115/115	-
16	LHG	A	852	-	-	8/53/53/53	-
13	CLA	B	829	2	1/1/15/20	7/39/115/115	-
13	CLA	A	810	1	1/1/15/20	7/39/115/115	-
16	LHG	A	843	13	-	13/53/53/53	-
17	SF4	C	1001	3	-	-	0/6/5/5
15	BCR	A	842	-	-	0/29/63/63	0/2/2/2
15	BCR	F	202	-	-	0/29/63/63	0/2/2/2
13	CLA	B	808	2	-	7/39/115/115	-
13	CLA	A	805	1	1/1/15/20	11/39/115/115	-
13	CLA	B	806	2	-	9/39/115/115	-
13	CLA	A	816	1	1/1/15/20	15/39/115/115	-
12	LMT	B	827	-	-	8/21/61/61	0/2/2/2
18	CL0	A	847	1	-	2/39/115/115	-
12	LMT	B	852	-	-	2/21/61/61	0/2/2/2
13	CLA	A	826	1	-	10/39/115/115	-
12	LMT	F	205	-	-	2/21/61/61	0/2/2/2
13	CLA	A	807	1	1/1/15/20	8/39/115/115	-
13	CLA	A	848	1	1/1/15/20	5/39/115/115	-
13	CLA	F	204	22	1/1/15/20	13/39/115/115	-
13	CLA	A	854	1,13	1/1/15/20	11/39/115/115	-
13	CLA	B	837	2	1/1/15/20	8/39/115/115	-
13	CLA	K	104	22	1/1/15/20	7/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	B	851	-	-	2/21/61/61	0/2/2/2
15	BCR	M	101	-	-	0/29/63/63	0/2/2/2
13	CLA	A	811	1	1/1/15/20	12/39/115/115	-
13	CLA	A	859	1	1/1/15/20	8/39/115/115	-
13	CLA	A	832	1	1/1/15/20	8/39/115/115	-
12	LMT	A	802	-	-	4/21/61/61	0/2/2/2
13	CLA	A	820	1	-	15/39/115/115	-
13	CLA	B	805	2	-	10/39/115/115	-
21	SQD	X	101	-	-	13/49/69/69	0/1/1/1
13	CLA	B	814	2	-	7/39/115/115	-
12	LMT	K	102	-	-	1/21/61/61	0/2/2/2
13	CLA	A	861	1	1/1/15/20	9/39/115/115	-
15	BCR	A	862	-	-	2/29/63/63	0/2/2/2
13	CLA	B	848	22	-	7/39/115/115	-
15	BCR	B	802	-	-	5/29/63/63	0/2/2/2
14	PQN	B	823	-	-	3/23/43/43	0/2/2/2
13	CLA	A	856	1	1/1/15/20	9/39/115/115	-
15	BCR	A	838	-	-	2/29/63/63	0/2/2/2
13	CLA	A	822	22	1/1/15/20	10/39/115/115	-
13	CLA	B	820	2	1/1/15/20	11/39/115/115	-
15	BCR	B	803	-	-	1/29/63/63	0/2/2/2
13	CLA	A	812	1	1/1/15/20	15/39/115/115	-
13	CLA	A	850	-	-	4/39/115/115	-
13	CLA	B	836	2	-	8/39/115/115	-
15	BCR	A	840	-	-	4/29/63/63	0/2/2/2
15	BCR	B	822	-	-	2/29/63/63	0/2/2/2
13	CLA	B	834	2	-	3/39/115/115	-
13	CLA	J	102	8	1/1/15/20	14/39/115/115	-
12	LMT	B	801	-	-	8/21/61/61	0/2/2/2
13	CLA	B	840	2	-	10/39/115/115	-
15	BCR	A	839	-	-	0/29/63/63	0/2/2/2
13	CLA	B	819	22	1/1/15/20	12/39/115/115	-
13	CLA	A	824	22	1/1/15/20	4/39/115/115	-
13	CLA	B	828	2	1/1/15/20	13/39/115/115	-
13	CLA	F	201	22	1/1/15/20	6/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	LMT	A	845	-	-	2/21/61/61	0/2/2/2
13	CLA	B	845	22	-	14/39/115/115	-
12	LMT	K	105	-	-	6/21/61/61	0/2/2/2
13	CLA	X	102	11	-	6/39/115/115	-
19	LMG	B	804	-	-	16/50/70/70	0/1/1/1
13	CLA	A	808	1	1/1/15/20	16/39/115/115	-
13	CLA	B	807	2	-	11/39/115/115	-
13	CLA	B	850	2	-	10/39/115/115	-
13	CLA	B	849	2	-	7/39/115/115	-
15	BCR	J	104	-	-	6/29/63/63	0/2/2/2
13	CLA	A	809	1	1/1/15/20	12/39/115/115	-
13	CLA	B	842	2	1/1/15/20	11/39/115/115	-
13	CLA	B	815	2	1/1/15/20	9/39/115/115	-
15	BCR	B	826	-	-	2/29/63/63	0/2/2/2
13	CLA	A	815	1	1/1/15/20	9/39/115/115	-
15	BCR	A	841	-	-	1/29/63/63	0/2/2/2
15	BCR	F	206	-	-	1/29/63/63	0/2/2/2
13	CLA	A	863	-	-	5/39/115/115	-
13	CLA	B	816	2	1/1/15/20	11/39/115/115	-
13	CLA	A	851	22	1/1/15/20	14/39/115/115	-
12	LMT	A	804	-	-	6/21/61/61	0/2/2/2
16	LHG	I	101	-	-	18/53/53/53	-
13	CLA	A	817	1	1/1/15/20	12/39/115/115	-
13	CLA	A	827	1	1/1/15/20	7/39/115/115	-
13	CLA	B	818	2	1/1/15/20	5/39/115/115	-
13	CLA	A	857	1,13	-	5/39/115/115	-
15	BCR	F	203	-	-	2/29/63/63	0/2/2/2
17	SF4	A	846	1,2	-	-	0/6/5/5
16	LHG	X	104	-	-	20/53/53/53	-
13	CLA	A	828	1	-	6/39/115/115	-
13	CLA	B	839	22	1/1/15/20	9/39/115/115	-
12	LMT	A	836	-	-	3/21/61/61	0/2/2/2
13	CLA	A	829	1	-	7/39/115/115	-
13	CLA	A	855	1	-	5/39/115/115	-
13	CLA	A	853	1	-	8/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CLA	B	811	2	-	10/39/115/115	-
13	CLA	K	101	-	1/1/15/20	9/39/115/115	-
13	CLA	A	821	22	1/1/15/20	10/39/115/115	-
13	CLA	B	847	2	-	7/39/115/115	-
12	LMT	X	103	-	-	9/21/61/61	0/2/2/2
12	LMT	A	835	-	-	5/21/61/61	0/2/2/2
13	CLA	A	831	1	1/1/15/20	9/39/115/115	-
16	LHG	A	864	-	-	14/53/53/53	-
13	CLA	A	833	1	-	13/39/115/115	-
13	CLA	B	833	2	1/1/15/20	9/39/115/115	-
13	CLA	B	810	2	-	5/39/115/115	-
13	CLA	A	844	1	1/1/15/20	8/39/115/115	-
13	CLA	A	830	16	1/1/15/20	8/39/115/115	-
13	CLA	B	835	2	1/1/15/20	13/39/115/115	-
15	BCR	K	103	-	-	3/29/63/63	0/2/2/2
15	BCR	B	824	-	-	5/29/63/63	0/2/2/2
14	PQN	A	837	-	-	6/23/43/43	0/2/2/2
13	CLA	A	813	1	1/1/15/20	5/39/115/115	-
13	CLA	A	825	1	1/1/15/20	7/39/115/115	-
12	LMT	A	834	-	-	8/21/61/61	0/2/2/2
13	CLA	B	821	2	1/1/15/20	4/39/115/115	-
13	CLA	B	841	2	1/1/15/20	13/39/115/115	-
13	CLA	B	838	2	-	6/39/115/115	-
13	CLA	A	806	22	1/1/15/20	10/39/115/115	-
13	CLA	B	843	2	1/1/15/20	10/39/115/115	-
13	CLA	A	814	1	1/1/15/20	10/39/115/115	-
13	CLA	B	831	2	1/1/15/20	12/39/115/115	-
13	CLA	A	823	1	1/1/15/20	9/39/115/115	-
17	SF4	C	1002	3	-	-	0/6/5/5
13	CLA	A	849	22	1/1/15/20	4/39/115/115	-
13	CLA	A	858	1	1/1/15/20	7/39/115/115	-
12	LMT	A	801	-	-	9/21/61/61	0/2/2/2
13	CLA	B	844	2	-	4/39/115/115	-
13	CLA	A	819	1	-	13/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CLA	B	830	2	-	1/39/115/115	-
13	CLA	B	832	2	1/1/15/20	9/39/115/115	-
13	CLA	J	101	8	-	14/39/115/115	-
15	BCR	J	103	-	-	2/29/63/63	0/2/2/2
13	CLA	B	813	22	1/1/15/20	11/39/115/115	-
13	CLA	A	818	1	1/1/15/20	10/39/115/115	-
13	CLA	B	817	2	1/1/15/20	10/39/115/115	-
13	CLA	B	809	22	-	2/39/115/115	-
13	CLA	B	846	22	-	4/39/115/115	-
12	LMT	A	803	-	-	1/21/61/61	0/2/2/2

All (1504) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	826	CLA	O2A-C1	9.51	1.72	1.46
13	B	847	CLA	O2A-C1	-8.62	1.21	1.46
13	J	101	CLA	C1D-ND	8.11	1.47	1.37
13	B	819	CLA	C1D-ND	7.93	1.47	1.37
13	B	845	CLA	C1D-ND	7.82	1.47	1.37
13	A	830	CLA	C1D-ND	7.56	1.47	1.37
13	K	101	CLA	C1D-ND	7.55	1.47	1.37
13	J	102	CLA	C1D-ND	7.49	1.47	1.37
15	B	802	BCR	C20-C21	-7.42	1.20	1.43
13	K	104	CLA	C1D-ND	7.41	1.46	1.37
13	A	821	CLA	C4B-NB	-7.24	1.28	1.37
13	A	811	CLA	C1D-ND	7.04	1.46	1.37
13	B	835	CLA	C1D-ND	6.88	1.46	1.37
13	A	818	CLA	C1D-ND	6.73	1.46	1.37
13	A	813	CLA	C4B-NB	-6.70	1.29	1.37
13	B	847	CLA	O2A-CGA	6.54	1.52	1.33
13	A	859	CLA	C1D-ND	6.50	1.45	1.37
13	A	844	CLA	C1D-ND	6.43	1.45	1.37
13	A	814	CLA	C4B-NB	-6.38	1.29	1.37
13	B	829	CLA	C4B-NB	-6.32	1.30	1.37
13	B	807	CLA	C1D-ND	6.27	1.45	1.37
13	A	827	CLA	O2A-CGA	6.25	1.51	1.33
13	A	824	CLA	C1D-ND	6.20	1.45	1.37
18	A	847	CL0	C1D-ND	6.07	1.45	1.37
13	B	815	CLA	C1D-ND	6.05	1.45	1.37
13	B	811	CLA	C1D-ND	6.00	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	812	CLA	O2A-CGA	5.95	1.50	1.33
13	A	844	CLA	C1B-NB	-5.90	1.30	1.37
13	A	806	CLA	C4D-ND	-5.89	1.29	1.37
13	A	822	CLA	C1D-ND	5.88	1.45	1.37
13	A	821	CLA	C1D-ND	5.80	1.44	1.37
15	K	103	BCR	C14-C13	5.80	1.43	1.35
13	J	101	CLA	O2D-CGD	5.77	1.47	1.33
13	B	829	CLA	C1D-ND	5.75	1.44	1.37
13	A	851	CLA	O2A-CGA	5.74	1.50	1.33
13	A	808	CLA	CAA-C2A	-5.71	1.43	1.54
13	B	829	CLA	CAA-CBA	-5.66	1.35	1.52
13	B	819	CLA	O2D-CGD	5.64	1.47	1.33
13	B	850	CLA	C1D-ND	5.62	1.44	1.37
13	A	861	CLA	C1D-ND	5.58	1.44	1.37
13	F	201	CLA	C1D-ND	5.57	1.44	1.37
13	A	820	CLA	C1D-ND	5.53	1.44	1.37
13	B	831	CLA	C1D-ND	5.51	1.44	1.37
13	A	856	CLA	C1D-ND	5.49	1.44	1.37
13	B	818	CLA	C1D-ND	5.46	1.44	1.37
13	A	816	CLA	CAA-C2A	-5.44	1.44	1.54
15	K	103	BCR	C10-C9	5.43	1.43	1.35
13	B	809	CLA	C1B-NB	-5.39	1.31	1.37
13	B	839	CLA	O2A-CGA	5.38	1.49	1.33
15	A	841	BCR	C10-C9	5.38	1.42	1.35
13	A	822	CLA	C4B-NB	-5.38	1.31	1.37
13	B	838	CLA	C4B-NB	-5.37	1.31	1.37
13	A	807	CLA	O2A-CGA	5.36	1.49	1.33
13	B	832	CLA	C1D-ND	5.35	1.44	1.37
13	A	859	CLA	O2A-CGA	5.35	1.49	1.33
13	A	807	CLA	C1D-ND	5.32	1.44	1.37
13	A	860	CLA	O2A-CGA	5.29	1.48	1.33
15	K	103	BCR	C21-C22	5.28	1.42	1.35
13	B	844	CLA	C1B-NB	-5.28	1.31	1.37
13	A	810	CLA	CHC-C1C	5.25	1.49	1.38
13	A	831	CLA	C1D-ND	5.24	1.44	1.37
13	B	832	CLA	O2A-CGA	5.23	1.48	1.33
15	B	826	BCR	C10-C9	5.22	1.42	1.35
13	F	204	CLA	C1D-ND	5.21	1.44	1.37
13	A	827	CLA	C1D-ND	5.17	1.44	1.37
13	B	833	CLA	C1D-ND	5.15	1.44	1.37
15	K	103	BCR	C17-C18	5.14	1.42	1.35
13	J	102	CLA	O2D-CGD	5.14	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	847	CLA	C1D-ND	5.13	1.44	1.37
13	A	810	CLA	C4B-NB	-5.12	1.31	1.37
13	B	841	CLA	O2A-CGA	5.10	1.48	1.33
13	B	845	CLA	O2A-CGA	5.10	1.48	1.33
15	B	825	BCR	C10-C9	5.09	1.42	1.35
13	B	831	CLA	O2A-CGA	5.09	1.48	1.33
13	A	817	CLA	O2D-CGD	5.08	1.45	1.33
13	B	816	CLA	CHB-C1B	5.08	1.50	1.39
13	B	844	CLA	C1D-ND	5.08	1.44	1.37
13	A	828	CLA	CHC-C1C	5.06	1.48	1.38
13	B	821	CLA	C1D-ND	5.06	1.44	1.37
15	B	803	BCR	C10-C9	5.02	1.42	1.35
13	B	838	CLA	C3C-C2C	5.01	1.47	1.36
13	B	832	CLA	C3D-C4D	-5.01	1.32	1.44
13	B	819	CLA	O2A-CGA	5.00	1.47	1.33
13	A	824	CLA	O2A-CGA	4.98	1.47	1.33
13	B	835	CLA	O2A-CGA	4.97	1.47	1.33
13	A	819	CLA	C1D-ND	4.97	1.43	1.37
13	B	838	CLA	C1D-ND	4.93	1.43	1.37
13	B	810	CLA	C1D-ND	4.92	1.43	1.37
13	B	813	CLA	C4D-ND	-4.90	1.31	1.37
13	B	806	CLA	C3C-C2C	4.89	1.47	1.36
13	A	859	CLA	C3C-C2C	4.87	1.47	1.36
13	A	816	CLA	C4B-NB	-4.87	1.31	1.37
15	F	203	BCR	C17-C18	4.83	1.42	1.35
13	A	825	CLA	C1D-ND	4.82	1.43	1.37
13	B	809	CLA	C1D-ND	4.82	1.43	1.37
13	A	826	CLA	CHC-C1C	4.82	1.48	1.38
15	B	802	BCR	C10-C9	4.81	1.42	1.35
13	A	821	CLA	MG-NC	4.81	2.17	2.06
13	A	814	CLA	C3C-C2C	4.80	1.46	1.36
13	A	808	CLA	CAA-CBA	-4.79	1.37	1.52
13	A	814	CLA	CHC-C1C	4.79	1.48	1.38
13	A	808	CLA	C4D-ND	-4.77	1.31	1.37
13	A	826	CLA	C1D-ND	4.77	1.43	1.37
13	A	813	CLA	C1D-ND	4.76	1.43	1.37
13	A	832	CLA	O2A-CGA	4.74	1.47	1.33
13	A	851	CLA	OBD-CAD	4.74	1.30	1.22
13	F	204	CLA	O2A-CGA	4.74	1.47	1.33
13	K	104	CLA	O2D-CGD	4.73	1.44	1.33
13	A	820	CLA	C3C-C2C	4.72	1.46	1.36
13	B	839	CLA	C1D-ND	4.70	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	809	CLA	C1D-ND	4.69	1.43	1.37
15	A	840	BCR	C10-C9	4.68	1.42	1.35
13	A	818	CLA	O2A-CGA	4.67	1.47	1.33
13	A	850	CLA	CHB-C1B	4.66	1.49	1.39
13	A	817	CLA	C3D-C4D	-4.65	1.33	1.44
13	K	101	CLA	CHB-C1B	4.65	1.49	1.39
13	A	823	CLA	C1B-NB	-4.64	1.32	1.37
13	A	830	CLA	O2D-CGD	4.63	1.44	1.33
13	A	851	CLA	C1D-ND	4.63	1.43	1.37
13	A	826	CLA	CHD-C1D	4.63	1.47	1.38
13	A	811	CLA	O2A-CGA	4.63	1.46	1.33
13	A	819	CLA	C3C-C2C	4.62	1.46	1.36
13	A	859	CLA	C4B-NB	-4.62	1.32	1.37
13	A	831	CLA	C4B-NB	-4.61	1.32	1.37
13	B	846	CLA	C3C-C2C	4.61	1.46	1.36
13	B	828	CLA	O2A-CGA	4.61	1.46	1.33
15	F	206	BCR	C21-C22	4.61	1.41	1.35
13	B	828	CLA	O2D-CGD	4.60	1.44	1.33
13	A	854	CLA	C3C-C2C	4.60	1.46	1.36
13	A	848	CLA	CAA-C2A	-4.59	1.45	1.54
13	A	821	CLA	C3C-C2C	4.59	1.46	1.36
13	A	830	CLA	O2A-CGA	4.58	1.46	1.33
13	A	848	CLA	O2A-CGA	4.57	1.46	1.33
13	A	806	CLA	C1D-ND	4.56	1.43	1.37
13	A	863	CLA	CHB-C1B	4.56	1.49	1.39
13	B	806	CLA	C4D-ND	-4.56	1.31	1.37
15	B	802	BCR	C21-C22	4.56	1.41	1.35
13	A	808	CLA	C1D-ND	4.54	1.43	1.37
13	A	853	CLA	O2A-CGA	4.54	1.46	1.33
13	A	856	CLA	C3C-C2C	4.54	1.46	1.36
13	B	846	CLA	C1D-ND	4.54	1.43	1.37
13	B	817	CLA	C4B-NB	-4.53	1.32	1.37
13	A	816	CLA	C1D-ND	4.51	1.43	1.37
13	A	816	CLA	O2A-CGA	4.49	1.46	1.33
13	B	814	CLA	C1D-ND	4.49	1.43	1.37
13	B	831	CLA	CHB-C1B	4.48	1.49	1.39
13	X	102	CLA	C1D-ND	4.48	1.43	1.37
13	J	101	CLA	O2A-CGA	4.47	1.46	1.33
13	A	805	CLA	CHC-C1C	4.46	1.47	1.38
13	A	825	CLA	O2A-CGA	4.46	1.46	1.33
13	B	816	CLA	C3D-C4D	-4.45	1.34	1.44
13	A	805	CLA	O2A-CGA	4.44	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	807	CLA	O2A-CGA	4.44	1.46	1.33
13	K	104	CLA	CHB-C1B	4.44	1.49	1.39
13	B	811	CLA	O2A-CGA	4.43	1.46	1.33
13	A	850	CLA	CHD-C1D	4.42	1.47	1.38
15	F	202	BCR	C10-C9	4.42	1.41	1.35
13	A	809	CLA	CHD-C1D	4.41	1.47	1.38
13	A	833	CLA	O2A-CGA	4.41	1.46	1.33
13	A	859	CLA	CHC-C1C	4.41	1.47	1.38
15	A	862	BCR	C10-C9	4.41	1.41	1.35
13	B	818	CLA	O2A-CGA	4.40	1.46	1.33
15	A	842	BCR	C21-C22	4.39	1.41	1.35
13	B	828	CLA	CHC-C1C	4.39	1.47	1.38
13	A	848	CLA	C4B-NB	-4.39	1.32	1.37
13	K	101	CLA	O2D-CGD	4.39	1.43	1.33
13	B	818	CLA	CHC-C1C	4.38	1.47	1.38
13	A	860	CLA	C1D-ND	4.38	1.43	1.37
13	B	842	CLA	C3C-C2C	4.38	1.46	1.36
13	J	102	CLA	O2A-CGA	4.37	1.46	1.33
13	A	822	CLA	CHC-C1C	4.37	1.47	1.38
13	A	858	CLA	C1D-ND	4.36	1.43	1.37
15	B	822	BCR	C21-C22	4.36	1.41	1.35
13	K	104	CLA	C3D-C4D	-4.35	1.34	1.44
13	B	811	CLA	O2D-CGD	4.35	1.43	1.33
13	B	842	CLA	O2D-CGD	4.35	1.43	1.33
15	A	840	BCR	C14-C13	4.34	1.41	1.35
13	A	812	CLA	C3D-C4D	-4.34	1.34	1.44
13	A	854	CLA	C4B-NB	-4.34	1.32	1.37
13	K	104	CLA	O2A-CGA	4.33	1.46	1.33
15	B	824	BCR	C10-C9	4.32	1.41	1.35
13	A	833	CLA	C1D-ND	4.31	1.43	1.37
13	F	201	CLA	O2A-CGA	4.30	1.45	1.33
13	A	850	CLA	C4D-ND	-4.30	1.31	1.37
13	A	818	CLA	CHC-C1C	4.30	1.47	1.38
13	A	822	CLA	O2A-CGA	4.30	1.45	1.33
13	B	842	CLA	O2A-CGA	4.29	1.45	1.33
13	A	822	CLA	CHB-C1B	4.28	1.49	1.39
13	B	821	CLA	C4B-NB	-4.28	1.32	1.37
13	A	813	CLA	O2A-CGA	4.27	1.45	1.33
13	B	846	CLA	O2A-CGA	4.27	1.45	1.33
13	A	855	CLA	C4B-NB	-4.27	1.32	1.37
13	A	819	CLA	MG-NC	4.27	2.16	2.06
13	B	816	CLA	O2A-CGA	4.26	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	857	CLA	MG-NC	4.25	2.16	2.06
13	A	812	CLA	C1D-ND	4.25	1.43	1.37
13	B	814	CLA	C3C-C2C	4.25	1.45	1.36
13	A	814	CLA	MG-NC	4.25	2.16	2.06
13	B	835	CLA	O2D-CGD	4.24	1.43	1.33
13	B	846	CLA	C3D-C4D	-4.23	1.34	1.44
13	B	841	CLA	O2D-CGD	4.23	1.43	1.33
13	A	813	CLA	CHD-C1D	4.23	1.46	1.38
13	A	830	CLA	C3C-C2C	4.22	1.45	1.36
15	A	838	BCR	C23-C22	-4.22	1.36	1.45
13	B	838	CLA	C3D-C4D	-4.21	1.34	1.44
13	B	817	CLA	CHC-C1C	4.20	1.47	1.38
13	A	822	CLA	CHD-C1D	4.20	1.46	1.38
15	J	103	BCR	C17-C18	4.20	1.41	1.35
13	B	843	CLA	C3C-C2C	4.20	1.45	1.36
13	A	809	CLA	C1B-NB	-4.19	1.32	1.37
13	A	849	CLA	CHC-C1C	4.18	1.47	1.38
13	B	849	CLA	C3C-C2C	4.17	1.45	1.36
13	B	831	CLA	C3D-C4D	-4.17	1.34	1.44
13	A	855	CLA	O2D-CGD	4.16	1.43	1.33
13	B	830	CLA	CHB-C1B	4.16	1.48	1.39
13	A	810	CLA	MG-NC	4.15	2.16	2.06
13	J	101	CLA	C3C-C2C	4.15	1.45	1.36
13	A	821	CLA	O2A-CGA	4.15	1.45	1.33
13	B	844	CLA	C4B-NB	-4.14	1.32	1.37
13	A	831	CLA	C3C-C2C	4.14	1.45	1.36
15	F	206	BCR	C17-C18	4.14	1.41	1.35
13	K	101	CLA	C3C-C2C	4.14	1.45	1.36
13	A	851	CLA	C3C-C2C	4.14	1.45	1.36
13	A	844	CLA	C3C-C2C	4.13	1.45	1.36
13	B	819	CLA	C3C-C2C	4.13	1.45	1.36
13	B	836	CLA	C1B-NB	-4.12	1.32	1.37
13	B	815	CLA	C4D-ND	-4.12	1.32	1.37
13	A	857	CLA	C3C-C2C	4.12	1.45	1.36
13	A	808	CLA	C3C-C2C	4.12	1.45	1.36
13	A	807	CLA	CHC-C1C	4.12	1.46	1.38
13	A	813	CLA	CHC-C1C	4.12	1.46	1.38
13	A	815	CLA	C1D-ND	4.12	1.42	1.37
13	K	101	CLA	O2A-CGA	4.11	1.45	1.33
13	A	832	CLA	CHB-C1B	4.11	1.48	1.39
13	A	855	CLA	O2A-CGA	4.11	1.45	1.33
13	B	806	CLA	CHC-C1C	4.09	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	833	CLA	CHC-C1C	4.09	1.46	1.38
13	B	841	CLA	C3C-C2C	4.09	1.45	1.36
13	A	833	CLA	C1B-NB	-4.08	1.32	1.37
15	B	802	BCR	C19-C18	-4.08	1.37	1.45
13	B	811	CLA	C1C-NC	-4.08	1.31	1.37
13	A	860	CLA	CHB-C1B	4.07	1.48	1.39
13	A	819	CLA	CHB-C1B	4.06	1.48	1.39
13	A	829	CLA	CHC-C1C	4.06	1.46	1.38
13	F	204	CLA	CHB-C1B	4.05	1.48	1.39
13	B	836	CLA	CHB-C1B	4.05	1.48	1.39
13	A	851	CLA	CHC-C1C	4.05	1.46	1.38
13	B	845	CLA	CHC-C1C	4.05	1.46	1.38
13	A	807	CLA	C4B-NB	-4.05	1.32	1.37
13	B	819	CLA	CHC-C4B	4.04	1.48	1.39
13	B	811	CLA	C3C-C2C	4.04	1.45	1.36
15	A	839	BCR	C19-C18	-4.04	1.37	1.45
13	A	822	CLA	O2D-CGD	4.04	1.43	1.33
13	B	819	CLA	C3D-C4D	-4.04	1.35	1.44
13	B	837	CLA	O2A-CGA	4.04	1.45	1.33
15	A	842	BCR	C10-C9	4.03	1.41	1.35
13	A	817	CLA	CAA-C2A	-4.02	1.46	1.54
13	B	815	CLA	C1B-NB	-4.01	1.32	1.37
13	A	825	CLA	CHB-C1B	4.01	1.48	1.39
13	B	845	CLA	C3C-C2C	4.01	1.45	1.36
13	A	809	CLA	CHC-C1C	4.01	1.46	1.38
16	A	852	LHG	C9-C8	-4.01	1.37	1.52
13	K	101	CLA	C3D-C4D	-4.00	1.35	1.44
13	J	102	CLA	C3D-C4D	-4.00	1.35	1.44
13	A	806	CLA	CHB-C1B	4.00	1.48	1.39
13	A	822	CLA	C1B-NB	-3.99	1.32	1.37
13	K	104	CLA	CHC-C1C	3.99	1.46	1.38
13	B	838	CLA	O2D-CGD	3.99	1.42	1.33
13	B	840	CLA	O2A-CGA	3.98	1.45	1.33
13	J	102	CLA	CHB-C1B	3.98	1.48	1.39
15	B	822	BCR	C17-C18	3.98	1.41	1.35
13	B	843	CLA	C4B-NB	-3.98	1.32	1.37
13	A	861	CLA	C3D-C4D	-3.97	1.35	1.44
13	B	843	CLA	O2A-CGA	3.97	1.44	1.33
15	M	101	BCR	C14-C13	3.97	1.41	1.35
15	A	842	BCR	C12-C13	-3.96	1.37	1.45
13	A	806	CLA	O2D-CED	-3.96	1.36	1.45
13	A	813	CLA	CHB-C1B	3.96	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	816	CLA	C3C-C2C	3.96	1.45	1.36
13	A	831	CLA	O2A-CGA	3.96	1.44	1.33
13	B	850	CLA	C3D-C4D	-3.95	1.35	1.44
13	B	820	CLA	O2A-CGA	3.94	1.44	1.33
13	A	812	CLA	CHD-C1D	3.94	1.46	1.38
13	A	856	CLA	CHB-C1B	3.94	1.48	1.39
13	B	848	CLA	C3C-C2C	3.94	1.45	1.36
13	B	814	CLA	CHC-C1C	3.94	1.46	1.38
13	A	805	CLA	C1D-ND	3.93	1.42	1.37
13	X	102	CLA	CHB-C1B	3.93	1.48	1.39
13	A	824	CLA	C3C-C2C	3.92	1.45	1.36
15	B	803	BCR	C23-C22	-3.92	1.37	1.45
13	A	855	CLA	C1D-ND	3.92	1.42	1.37
13	A	829	CLA	O2A-CGA	3.91	1.44	1.33
13	F	201	CLA	C3D-C4D	-3.91	1.35	1.44
13	A	854	CLA	O2A-CGA	3.91	1.44	1.33
13	A	818	CLA	C3C-C2C	3.91	1.45	1.36
13	B	837	CLA	O2D-CGD	3.90	1.42	1.33
13	A	828	CLA	OBD-CAD	3.90	1.29	1.22
13	B	806	CLA	C1D-ND	3.89	1.42	1.37
13	A	814	CLA	C4D-ND	-3.89	1.32	1.37
13	B	843	CLA	CHD-C1D	3.88	1.45	1.38
13	A	831	CLA	CHC-C1C	3.88	1.46	1.38
15	A	839	BCR	C21-C22	3.88	1.40	1.35
13	J	102	CLA	C3C-C2C	3.88	1.45	1.36
13	A	854	CLA	CHC-C1C	3.88	1.46	1.38
13	B	840	CLA	CHB-C1B	3.87	1.48	1.39
13	B	842	CLA	CHB-C1B	3.87	1.48	1.39
15	B	802	BCR	C17-C18	3.87	1.40	1.35
13	B	846	CLA	O2D-CGD	3.86	1.42	1.33
13	A	857	CLA	C3D-C4D	-3.86	1.35	1.44
13	A	855	CLA	CHB-C1B	3.86	1.48	1.39
13	B	811	CLA	CHC-C1C	3.86	1.46	1.38
13	A	859	CLA	O2D-CGD	3.86	1.42	1.33
13	F	201	CLA	CHB-C1B	3.86	1.48	1.39
13	A	827	CLA	C3D-C4D	-3.85	1.35	1.44
13	B	850	CLA	O2A-CGA	3.85	1.44	1.33
13	A	826	CLA	C2-C3	3.85	1.42	1.33
15	J	103	BCR	C10-C9	3.85	1.40	1.35
13	A	812	CLA	CHB-C1B	3.85	1.48	1.39
13	A	856	CLA	CHD-C1D	3.85	1.45	1.38
13	A	848	CLA	CHB-C1B	3.85	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	810	CLA	C3C-C2C	3.84	1.44	1.36
13	A	811	CLA	O2D-CGD	3.84	1.42	1.33
13	X	102	CLA	O2D-CGD	3.84	1.42	1.33
13	B	839	CLA	C4B-NB	-3.84	1.33	1.37
13	A	822	CLA	C1B-C2B	3.83	1.52	1.43
13	A	861	CLA	CHD-C1D	3.83	1.45	1.38
13	B	811	CLA	C4B-NB	-3.83	1.33	1.37
13	A	826	CLA	C4D-ND	-3.83	1.32	1.37
15	B	802	BCR	C14-C13	3.82	1.40	1.35
15	F	202	BCR	C29-C28	-3.82	1.43	1.52
13	B	814	CLA	C4D-ND	-3.81	1.32	1.37
13	B	817	CLA	C1D-ND	3.81	1.42	1.37
13	A	819	CLA	C4C-C3C	3.81	1.51	1.45
13	B	818	CLA	O2D-CGD	3.81	1.42	1.33
13	A	856	CLA	CHC-C1C	3.81	1.46	1.38
13	B	828	CLA	C4D-ND	-3.80	1.32	1.37
13	B	817	CLA	C3C-C2C	3.80	1.44	1.36
13	A	827	CLA	C3C-C2C	3.80	1.44	1.36
13	A	853	CLA	CHB-C1B	3.79	1.47	1.39
13	B	834	CLA	CHB-C1B	3.79	1.47	1.39
15	A	841	BCR	C29-C28	-3.79	1.43	1.52
13	A	851	CLA	C4D-ND	-3.78	1.32	1.37
15	J	104	BCR	C17-C18	3.78	1.40	1.35
13	A	858	CLA	O2A-CGA	3.78	1.44	1.33
13	B	843	CLA	C1D-ND	3.77	1.42	1.37
13	F	201	CLA	MG-NC	3.77	2.15	2.06
13	A	810	CLA	C1D-ND	3.77	1.42	1.37
13	K	104	CLA	OBD-CAD	3.77	1.29	1.22
13	A	810	CLA	C3D-C4D	-3.76	1.35	1.44
13	A	813	CLA	C3C-C2C	3.75	1.44	1.36
13	A	811	CLA	CHB-C1B	3.75	1.47	1.39
13	A	860	CLA	O2D-CGD	3.75	1.42	1.33
13	A	853	CLA	C4D-ND	-3.75	1.32	1.37
13	B	847	CLA	C3C-C2C	3.74	1.44	1.36
13	B	810	CLA	CHC-C1C	3.74	1.46	1.38
13	B	828	CLA	CHD-C1D	3.74	1.45	1.38
15	J	104	BCR	C21-C22	3.73	1.40	1.35
13	A	849	CLA	C4D-ND	-3.73	1.32	1.37
13	B	813	CLA	CHD-C1D	3.73	1.45	1.38
13	B	843	CLA	CHB-C1B	3.73	1.47	1.39
13	A	844	CLA	O2A-CGA	3.72	1.44	1.33
13	B	850	CLA	C3C-C2C	3.72	1.44	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	851	CLA	CHB-C1B	3.72	1.47	1.39
13	B	843	CLA	CHC-C1C	3.72	1.46	1.38
13	A	859	CLA	C1C-NC	-3.72	1.32	1.37
13	A	848	CLA	C1D-ND	3.71	1.42	1.37
13	A	808	CLA	CHC-C1C	3.71	1.46	1.38
18	A	847	CL0	C4B-NB	-3.71	1.33	1.37
15	F	203	BCR	C21-C22	3.71	1.40	1.35
13	B	811	CLA	C3D-C4D	-3.71	1.35	1.44
13	A	815	CLA	C4-C3	-3.71	1.41	1.50
13	B	817	CLA	MG-NC	3.71	2.15	2.06
13	A	811	CLA	CHD-C1D	3.70	1.45	1.38
13	B	843	CLA	O2D-CED	-3.70	1.36	1.45
13	B	818	CLA	C4B-NB	-3.70	1.33	1.37
13	B	840	CLA	C1D-ND	3.69	1.42	1.37
13	A	812	CLA	C3C-C2C	3.69	1.44	1.36
13	B	806	CLA	MG-NA	3.69	2.15	2.06
13	A	815	CLA	CHC-C1C	3.68	1.46	1.38
13	B	808	CLA	O2A-CGA	3.68	1.44	1.33
13	A	832	CLA	C1D-ND	3.68	1.42	1.37
13	B	844	CLA	C3C-C2C	3.68	1.44	1.36
13	B	838	CLA	O2A-CGA	3.67	1.44	1.33
13	A	819	CLA	O2A-CGA	3.66	1.44	1.33
13	B	808	CLA	C4D-ND	-3.66	1.32	1.37
15	M	101	BCR	C17-C18	3.66	1.40	1.35
13	A	817	CLA	O2A-CGA	3.65	1.44	1.33
13	A	823	CLA	C3C-C2C	3.65	1.44	1.36
13	A	850	CLA	CHC-C1C	3.65	1.45	1.38
13	B	837	CLA	MG-ND	-3.64	1.98	2.05
13	A	861	CLA	O2A-CGA	3.64	1.44	1.33
13	A	811	CLA	C3D-C4D	-3.64	1.36	1.44
13	B	820	CLA	CHC-C1C	3.64	1.45	1.38
13	B	839	CLA	C3C-C2C	3.64	1.44	1.36
13	B	819	CLA	CHD-C1D	3.63	1.45	1.38
13	A	857	CLA	O2A-CGA	3.63	1.43	1.33
13	J	101	CLA	OBD-CAD	3.63	1.28	1.22
13	A	824	CLA	CHD-C4C	3.62	1.47	1.39
13	A	849	CLA	C3C-C2C	3.62	1.44	1.36
15	F	203	BCR	C19-C18	-3.62	1.38	1.45
13	B	833	CLA	CHD-C4C	3.62	1.47	1.39
13	A	809	CLA	CAA-C2A	3.61	1.60	1.54
13	A	807	CLA	O2D-CGD	3.61	1.42	1.33
13	A	857	CLA	O2D-CGD	3.61	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	806	CLA	C1B-NB	-3.61	1.33	1.37
13	B	831	CLA	MG-NC	3.61	2.14	2.06
13	B	842	CLA	C3D-C4D	-3.61	1.36	1.44
13	A	856	CLA	O2A-CGA	3.61	1.43	1.33
13	A	833	CLA	CAA-C2A	-3.61	1.47	1.54
13	A	828	CLA	CHB-C1B	3.61	1.47	1.39
13	A	823	CLA	C1D-ND	3.60	1.42	1.37
15	B	802	BCR	C16-C17	-3.60	1.32	1.43
13	A	817	CLA	C4B-NB	-3.60	1.33	1.37
13	B	818	CLA	C3C-C2C	3.60	1.44	1.36
13	A	832	CLA	CHD-C1D	3.60	1.45	1.38
13	B	805	CLA	OBD-CAD	3.60	1.28	1.22
13	B	829	CLA	C1B-NB	-3.59	1.33	1.37
19	B	804	LMG	C30-C29	-3.59	1.39	1.52
13	B	830	CLA	C4D-ND	-3.59	1.32	1.37
13	J	101	CLA	CHB-C1B	3.58	1.47	1.39
13	A	812	CLA	CHC-C1C	3.58	1.45	1.38
13	F	204	CLA	C3C-C2C	3.58	1.44	1.36
13	B	841	CLA	C3D-C4D	-3.58	1.36	1.44
13	K	101	CLA	CHC-C1C	3.58	1.45	1.38
13	A	818	CLA	CHD-C1D	3.58	1.45	1.38
13	B	806	CLA	CHD-C1D	3.57	1.45	1.38
13	A	827	CLA	CAA-C2A	3.57	1.60	1.54
13	F	201	CLA	O2D-CGD	3.57	1.41	1.33
13	A	858	CLA	C4C-C3C	3.57	1.51	1.45
13	A	854	CLA	CHB-C1B	3.57	1.47	1.39
13	B	830	CLA	CHC-C1C	3.57	1.45	1.38
13	B	839	CLA	CHC-C1C	3.57	1.45	1.38
13	B	845	CLA	C1B-NB	-3.57	1.33	1.37
13	B	805	CLA	CHD-C1D	3.56	1.45	1.38
13	A	832	CLA	O2D-CGD	3.56	1.41	1.33
13	A	849	CLA	C1D-ND	3.56	1.42	1.37
13	A	828	CLA	C1C-NC	-3.55	1.32	1.37
13	X	102	CLA	C3C-C2C	3.55	1.44	1.36
13	A	855	CLA	CHD-C4C	3.55	1.47	1.39
13	A	848	CLA	C3D-C4D	-3.55	1.36	1.44
15	A	840	BCR	C12-C13	-3.55	1.38	1.45
15	A	839	BCR	C17-C18	3.54	1.40	1.35
13	A	805	CLA	C4B-NB	-3.54	1.33	1.37
13	B	829	CLA	CHC-C1C	3.54	1.45	1.38
13	A	828	CLA	CHC-C4B	3.54	1.47	1.39
13	B	829	CLA	C1C-NC	-3.54	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	821	CLA	CHB-C1B	3.54	1.47	1.39
13	B	850	CLA	CHC-C1C	3.54	1.45	1.38
15	B	803	BCR	C21-C22	3.53	1.40	1.35
15	B	825	BCR	C2-C3	-3.53	1.43	1.52
13	A	844	CLA	CHB-C1B	3.53	1.47	1.39
13	B	807	CLA	CHC-C1C	3.53	1.45	1.38
13	B	846	CLA	C4B-NB	-3.53	1.33	1.37
13	A	844	CLA	O2D-CGD	3.52	1.41	1.33
13	B	845	CLA	CHB-C1B	3.51	1.47	1.39
13	A	853	CLA	C1D-ND	3.51	1.42	1.37
13	A	809	CLA	CHD-C4C	3.51	1.47	1.39
13	A	825	CLA	C3C-C2C	3.51	1.44	1.36
13	A	849	CLA	CHB-C1B	3.50	1.47	1.39
13	B	831	CLA	OBD-CAD	3.50	1.28	1.22
13	A	807	CLA	C3C-C2C	3.50	1.44	1.36
13	A	817	CLA	CHD-C1D	3.50	1.45	1.38
13	B	810	CLA	O2A-CGA	3.50	1.43	1.33
13	B	833	CLA	CHB-C1B	3.49	1.47	1.39
13	A	814	CLA	CHD-C1D	3.49	1.45	1.38
13	A	844	CLA	CHD-C1D	3.49	1.45	1.38
13	A	861	CLA	CHB-C1B	3.49	1.47	1.39
13	X	102	CLA	O2A-CGA	3.48	1.43	1.33
15	M	101	BCR	C19-C18	-3.48	1.38	1.45
13	A	855	CLA	C1B-C2B	3.48	1.51	1.43
13	K	104	CLA	C3C-C2C	3.47	1.44	1.36
13	B	833	CLA	O2A-CGA	3.47	1.43	1.33
13	A	827	CLA	C3D-C2D	3.47	1.48	1.39
13	A	860	CLA	C3D-C4D	-3.47	1.36	1.44
13	B	809	CLA	C4C-C3C	3.46	1.51	1.45
13	B	836	CLA	CHC-C1C	3.46	1.45	1.38
13	B	830	CLA	O2A-CGA	3.46	1.43	1.33
13	B	836	CLA	C3C-C2C	3.46	1.44	1.36
13	B	842	CLA	CHD-C1D	3.46	1.45	1.38
13	J	101	CLA	C3D-C4D	-3.46	1.36	1.44
13	B	839	CLA	C1B-NB	-3.46	1.33	1.37
13	B	837	CLA	MG-NC	3.46	2.14	2.06
13	B	817	CLA	CHB-C1B	3.46	1.47	1.39
13	A	809	CLA	O2A-CGA	3.45	1.43	1.33
13	B	832	CLA	MG-ND	-3.45	1.98	2.05
13	A	818	CLA	C4B-NB	-3.44	1.33	1.37
13	B	836	CLA	CHD-C1D	3.44	1.45	1.38
13	A	812	CLA	O2D-CGD	3.44	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	825	CLA	CHC-C1C	3.43	1.45	1.38
13	B	837	CLA	C3C-C2C	3.43	1.44	1.36
13	A	833	CLA	CHD-C1D	3.43	1.45	1.38
13	A	827	CLA	CHB-C1B	3.43	1.47	1.39
13	B	850	CLA	C4B-NB	-3.43	1.33	1.37
13	A	815	CLA	C3C-C2C	3.43	1.44	1.36
13	B	832	CLA	CHD-C4C	3.42	1.47	1.39
13	A	819	CLA	C4B-NB	-3.42	1.33	1.37
15	B	824	BCR	C21-C22	3.42	1.40	1.35
13	A	805	CLA	C3C-C2C	3.42	1.44	1.36
13	A	816	CLA	C3D-C4D	-3.42	1.36	1.44
13	B	840	CLA	C3D-C4D	-3.41	1.36	1.44
13	B	817	CLA	C3D-C4D	-3.41	1.36	1.44
13	B	816	CLA	C3C-C2C	3.41	1.44	1.36
13	A	832	CLA	C1B-NB	-3.39	1.33	1.37
13	A	857	CLA	C1D-ND	3.39	1.42	1.37
13	B	817	CLA	OBD-CAD	3.39	1.28	1.22
13	B	835	CLA	C3D-C4D	-3.39	1.36	1.44
15	J	104	BCR	C8-C7	-3.39	1.22	1.33
13	A	805	CLA	C1C-NC	-3.39	1.32	1.37
13	A	813	CLA	MG-NC	3.38	2.14	2.06
13	A	831	CLA	C1C-NC	-3.38	1.32	1.37
15	A	842	BCR	C19-C18	-3.38	1.38	1.45
13	B	841	CLA	C4B-NB	-3.38	1.33	1.37
13	A	826	CLA	C3C-C2C	3.38	1.43	1.36
13	A	816	CLA	CHC-C1C	3.38	1.45	1.38
18	A	847	CL0	C3D-C2D	3.38	1.48	1.39
13	A	826	CLA	CHD-C4C	3.38	1.46	1.39
13	A	809	CLA	CHB-C1B	3.37	1.47	1.39
13	B	809	CLA	O2A-CGA	3.37	1.43	1.33
15	A	862	BCR	C12-C13	-3.37	1.38	1.45
13	A	830	CLA	C3D-C4D	-3.37	1.36	1.44
13	A	853	CLA	CHC-C1C	3.37	1.45	1.38
13	B	820	CLA	C1D-ND	3.37	1.41	1.37
13	B	818	CLA	C3D-C2D	3.37	1.48	1.39
13	B	808	CLA	CHC-C1C	3.36	1.45	1.38
13	F	204	CLA	C4B-NB	-3.36	1.33	1.37
13	A	860	CLA	C3C-C2C	3.36	1.43	1.36
13	A	854	CLA	CHC-C4B	3.36	1.46	1.39
13	A	819	CLA	C3D-C4D	-3.36	1.36	1.44
13	B	810	CLA	C1B-NB	-3.36	1.33	1.37
13	B	809	CLA	CHB-C1B	3.36	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	A	839	BCR	C23-C22	-3.35	1.38	1.45
13	A	807	CLA	CHB-C1B	3.35	1.46	1.39
13	A	827	CLA	C1B-NB	-3.35	1.33	1.37
13	B	837	CLA	C3D-C2D	3.35	1.48	1.39
13	B	817	CLA	O2A-CGA	3.35	1.43	1.33
13	B	849	CLA	MG-NC	3.34	2.14	2.06
13	A	820	CLA	C4B-NB	-3.34	1.33	1.37
13	A	828	CLA	C4D-ND	-3.34	1.33	1.37
13	A	815	CLA	C3D-C2D	3.34	1.48	1.39
13	B	842	CLA	C1D-ND	3.33	1.41	1.37
13	A	829	CLA	C4B-NB	-3.33	1.33	1.37
13	B	818	CLA	CHB-C1B	3.32	1.46	1.39
13	A	828	CLA	O2A-CGA	3.32	1.43	1.33
13	B	818	CLA	C3D-C4D	-3.32	1.36	1.44
13	B	808	CLA	C3C-C2C	3.31	1.43	1.36
13	A	826	CLA	O2A-CGA	-3.31	1.23	1.33
13	A	817	CLA	C3C-C2C	3.31	1.43	1.36
15	A	838	BCR	C17-C18	3.30	1.40	1.35
13	A	857	CLA	CHD-C4C	3.30	1.46	1.39
13	B	828	CLA	C1C-NC	-3.30	1.32	1.37
13	B	808	CLA	C1D-ND	3.30	1.41	1.37
13	B	848	CLA	O2A-CGA	3.30	1.43	1.33
13	B	817	CLA	O2D-CGD	3.30	1.41	1.33
13	A	863	CLA	CHD-C1D	3.30	1.44	1.38
13	B	834	CLA	C1D-ND	3.30	1.41	1.37
13	B	819	CLA	CHC-C1C	3.29	1.45	1.38
13	F	201	CLA	C3C-C2C	3.29	1.43	1.36
13	A	844	CLA	CHC-C1C	3.29	1.45	1.38
13	F	204	CLA	O2D-CGD	3.28	1.41	1.33
13	A	858	CLA	C3C-C2C	3.28	1.43	1.36
13	A	859	CLA	MG-NC	3.28	2.14	2.06
13	B	820	CLA	C3C-C2C	3.28	1.43	1.36
13	B	816	CLA	C1D-ND	3.28	1.41	1.37
13	F	204	CLA	OBD-CAD	3.27	1.28	1.22
15	A	862	BCR	C21-C22	3.27	1.40	1.35
13	B	807	CLA	MG-ND	-3.27	1.99	2.05
13	A	819	CLA	O2D-CGD	3.27	1.41	1.33
13	A	860	CLA	C4C-C3C	3.27	1.50	1.45
13	B	818	CLA	C1B-NB	-3.26	1.33	1.37
13	A	820	CLA	CHB-C1B	3.26	1.46	1.39
13	A	857	CLA	CHC-C4B	3.26	1.46	1.39
13	B	831	CLA	CHD-C1D	3.25	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	M	101	BCR	C23-C22	-3.25	1.39	1.45
13	A	844	CLA	CHD-C4C	3.25	1.46	1.39
13	A	812	CLA	CHC-C4B	3.24	1.46	1.39
13	A	822	CLA	C3D-C4D	-3.24	1.36	1.44
13	B	835	CLA	C3C-C2C	3.24	1.43	1.36
15	J	104	BCR	C8-C9	-3.24	1.39	1.45
15	F	206	BCR	C23-C22	-3.24	1.39	1.45
13	A	828	CLA	CMA-C3A	3.24	1.60	1.53
13	B	805	CLA	C3D-C4D	-3.24	1.36	1.44
15	A	841	BCR	C12-C13	-3.23	1.39	1.45
13	A	853	CLA	C1B-NB	-3.23	1.33	1.37
13	B	847	CLA	CHD-C1D	3.22	1.44	1.38
13	B	828	CLA	O2D-CED	-3.22	1.37	1.45
13	B	805	CLA	C4D-ND	-3.22	1.33	1.37
13	B	805	CLA	C3C-C2C	3.22	1.43	1.36
13	A	826	CLA	C1C-NC	-3.21	1.33	1.37
13	A	810	CLA	C3C-C2C	3.21	1.43	1.36
13	A	820	CLA	C4D-ND	-3.21	1.33	1.37
13	A	858	CLA	CHB-C1B	3.20	1.46	1.39
13	B	837	CLA	C3D-C4D	-3.20	1.36	1.44
15	A	842	BCR	C14-C13	3.20	1.40	1.35
13	A	831	CLA	O2D-CGD	3.20	1.41	1.33
13	B	831	CLA	C3D-C2D	3.20	1.47	1.39
13	K	101	CLA	OBD-CAD	3.19	1.28	1.22
13	B	810	CLA	O2D-CGD	3.19	1.41	1.33
13	A	823	CLA	CHC-C4B	3.18	1.46	1.39
13	B	813	CLA	C3C-C2C	3.18	1.43	1.36
15	B	825	BCR	C14-C13	3.18	1.40	1.35
13	A	821	CLA	MG-NB	-3.17	1.99	2.05
13	B	811	CLA	CHB-C1B	3.17	1.46	1.39
13	A	857	CLA	CHC-C1C	3.17	1.45	1.38
13	A	824	CLA	C1B-NB	-3.17	1.33	1.37
13	A	825	CLA	MG-NC	3.17	2.13	2.06
13	A	814	CLA	O2A-CGA	3.17	1.42	1.33
13	A	850	CLA	C4C-C3C	3.16	1.50	1.45
13	B	835	CLA	CHD-C1D	3.16	1.44	1.38
15	B	826	BCR	C23-C22	-3.16	1.39	1.45
13	A	844	CLA	C3D-C4D	-3.16	1.37	1.44
15	B	822	BCR	C14-C13	3.15	1.40	1.35
13	A	816	CLA	C1C-NC	-3.15	1.33	1.37
13	B	848	CLA	O2D-CED	-3.14	1.37	1.45
13	A	829	CLA	C4D-ND	-3.14	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	835	CLA	CHC-C1C	3.14	1.44	1.38
13	A	848	CLA	CHD-C1D	3.14	1.44	1.38
13	A	818	CLA	CHC-C4B	3.14	1.46	1.39
13	B	844	CLA	O2A-CGA	3.13	1.42	1.33
13	B	846	CLA	C3D-C2D	3.13	1.47	1.39
13	J	101	CLA	CHD-C4C	3.13	1.46	1.39
13	A	808	CLA	CHD-C1D	3.13	1.44	1.38
13	B	829	CLA	C3C-C2C	3.13	1.43	1.36
13	B	806	CLA	O2A-CGA	3.13	1.42	1.33
13	A	819	CLA	CHC-C4B	3.12	1.46	1.39
15	B	825	BCR	C12-C13	-3.12	1.39	1.45
13	B	809	CLA	CHD-C1D	3.11	1.44	1.38
13	B	831	CLA	C3C-C2C	3.11	1.43	1.36
13	B	813	CLA	CHB-C1B	3.11	1.46	1.39
13	B	832	CLA	CHB-C1B	3.11	1.46	1.39
13	B	839	CLA	C1B-C2B	3.11	1.50	1.43
13	A	810	CLA	MG-NB	-3.11	1.99	2.05
13	A	809	CLA	C3C-C2C	3.10	1.43	1.36
15	B	824	BCR	C12-C13	-3.10	1.39	1.45
13	B	845	CLA	CHC-C4B	3.10	1.46	1.39
13	A	830	CLA	CHD-C1D	3.10	1.44	1.38
15	B	826	BCR	C17-C18	3.10	1.39	1.35
13	B	845	CLA	CMC-C2C	-3.10	1.44	1.50
13	B	849	CLA	C1D-ND	3.09	1.41	1.37
13	B	832	CLA	C3C-C2C	3.09	1.43	1.36
13	A	832	CLA	C3C-C2C	3.09	1.43	1.36
13	B	843	CLA	C3B-C4B	3.09	1.50	1.42
13	B	815	CLA	C4C-C3C	3.09	1.50	1.45
13	B	839	CLA	O2D-CGD	3.09	1.40	1.33
13	B	832	CLA	O2D-CGD	3.08	1.40	1.33
13	A	825	CLA	MG-NB	-3.08	1.99	2.05
13	A	849	CLA	CHD-C1D	3.08	1.44	1.38
15	A	842	BCR	C17-C18	3.08	1.39	1.35
13	A	854	CLA	C1D-ND	3.08	1.41	1.37
13	A	829	CLA	C3D-C4D	-3.07	1.37	1.44
13	B	847	CLA	MG-NA	3.07	2.13	2.06
13	J	102	CLA	CHC-C1C	3.07	1.44	1.38
13	A	811	CLA	C4D-ND	-3.07	1.33	1.37
13	B	837	CLA	C4B-NB	-3.07	1.34	1.37
13	A	814	CLA	MG-ND	3.07	2.11	2.05
13	A	819	CLA	CHC-C1C	3.07	1.44	1.38
13	B	838	CLA	CHC-C1C	3.07	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	848	CLA	C4D-ND	-3.07	1.33	1.37
13	A	850	CLA	O2A-CGA	3.06	1.42	1.33
13	B	813	CLA	CBA-CGA	-3.06	1.41	1.50
13	A	807	CLA	C3D-C4D	-3.06	1.37	1.44
13	B	837	CLA	CHB-C1B	3.05	1.46	1.39
13	A	816	CLA	CAA-CBA	-3.05	1.43	1.52
13	A	857	CLA	CHB-C1B	3.05	1.46	1.39
13	A	810	CLA	O2A-CGA	3.05	1.42	1.33
13	B	807	CLA	C3C-C2C	3.05	1.43	1.36
15	B	822	BCR	C10-C9	3.05	1.39	1.35
13	A	829	CLA	CHB-C1B	3.05	1.46	1.39
13	J	102	CLA	OBD-CAD	3.05	1.27	1.22
13	A	818	CLA	C3D-C2D	3.04	1.47	1.39
13	A	861	CLA	C3C-C2C	3.03	1.43	1.36
13	B	839	CLA	CHB-C1B	3.03	1.46	1.39
15	B	802	BCR	C12-C13	-3.03	1.39	1.45
13	B	813	CLA	O2A-CGA	3.03	1.42	1.33
13	B	810	CLA	MG-NA	3.03	2.13	2.06
15	F	206	BCR	C19-C18	-3.03	1.39	1.45
13	B	819	CLA	C1B-C2B	3.02	1.50	1.43
13	B	807	CLA	C1B-NB	-3.02	1.34	1.37
13	A	855	CLA	C3D-C4D	-3.02	1.37	1.44
13	B	819	CLA	CHD-C4C	3.02	1.46	1.39
13	K	104	CLA	C3D-C2D	3.02	1.47	1.39
15	A	841	BCR	C19-C18	-3.01	1.39	1.45
13	A	822	CLA	CHD-C4C	3.01	1.46	1.39
13	A	809	CLA	CAA-CBA	-3.01	1.43	1.52
13	A	826	CLA	O2D-CGD	3.01	1.40	1.33
13	B	809	CLA	O2D-CGD	3.01	1.40	1.33
13	B	829	CLA	CHC-C4B	3.01	1.46	1.39
13	A	813	CLA	C1B-NB	-3.00	1.34	1.37
13	J	101	CLA	CHC-C1C	3.00	1.44	1.38
13	B	814	CLA	O2A-CGA	3.00	1.42	1.33
13	B	815	CLA	CHB-C1B	3.00	1.46	1.39
13	B	834	CLA	C4D-ND	-3.00	1.33	1.37
13	B	814	CLA	C3D-C4D	-2.99	1.37	1.44
13	B	838	CLA	C3B-C4B	2.99	1.49	1.42
13	B	814	CLA	C4D-CHA	2.99	1.49	1.38
13	B	841	CLA	C3B-C4B	2.99	1.49	1.42
13	B	814	CLA	CHD-C1D	2.99	1.44	1.38
13	B	828	CLA	OBD-CAD	2.99	1.27	1.22
13	A	814	CLA	C1C-NC	-2.99	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	A	862	BCR	C19-C18	-2.99	1.39	1.45
15	B	822	BCR	C23-C22	-2.99	1.39	1.45
13	B	829	CLA	O2A-CGA	2.99	1.42	1.33
13	B	848	CLA	CHB-C1B	2.99	1.46	1.39
13	B	835	CLA	CHC-C4B	2.98	1.46	1.39
13	F	201	CLA	C1B-NB	-2.98	1.34	1.37
13	A	820	CLA	C3D-C4D	-2.98	1.37	1.44
13	A	850	CLA	C1B-NB	-2.98	1.34	1.37
15	B	826	BCR	C2-C3	-2.98	1.45	1.52
15	A	841	BCR	C8-C9	-2.98	1.39	1.45
15	J	103	BCR	C12-C13	-2.98	1.39	1.45
13	B	840	CLA	MG-NC	2.98	2.13	2.06
13	A	863	CLA	C1-C2	2.97	1.58	1.49
13	B	849	CLA	CHC-C1C	2.97	1.44	1.38
13	A	825	CLA	C4B-NB	-2.97	1.34	1.37
13	A	826	CLA	CHB-C1B	2.97	1.46	1.39
13	A	863	CLA	C3C-C2C	2.97	1.43	1.36
13	A	816	CLA	C1B-NB	-2.96	1.34	1.37
13	A	815	CLA	CHD-C1D	2.96	1.44	1.38
13	B	849	CLA	O2A-CGA	2.96	1.42	1.33
13	B	840	CLA	O2D-CGD	2.96	1.40	1.33
13	B	817	CLA	C3D-C2D	2.96	1.47	1.39
13	B	848	CLA	MG-NC	2.96	2.13	2.06
13	A	823	CLA	CHD-C1D	2.96	1.44	1.38
13	B	850	CLA	C4D-ND	-2.96	1.33	1.37
13	B	839	CLA	C3D-C4D	-2.96	1.37	1.44
13	J	102	CLA	C3B-C4B	2.95	1.49	1.42
13	A	857	CLA	C3D-C2D	2.95	1.47	1.39
13	A	860	CLA	CHD-C1D	2.95	1.44	1.38
15	J	104	BCR	C10-C9	2.95	1.39	1.35
13	B	821	CLA	C3C-C2C	2.95	1.43	1.36
13	K	101	CLA	MG-NA	-2.95	1.99	2.06
13	A	818	CLA	MG-NA	2.95	2.13	2.06
13	B	819	CLA	C3D-C2D	2.94	1.47	1.39
13	B	821	CLA	CBD-CGD	-2.94	1.43	1.52
15	A	862	BCR	C23-C22	-2.94	1.39	1.45
13	A	825	CLA	C3D-C2D	2.93	1.47	1.39
13	B	844	CLA	C3D-C4D	-2.93	1.37	1.44
13	B	832	CLA	CHD-C1D	2.93	1.44	1.38
13	X	102	CLA	CHC-C4B	2.93	1.46	1.39
13	A	814	CLA	CHB-C1B	2.92	1.46	1.39
13	A	853	CLA	C4C-C3C	2.92	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	820	CLA	C1C-NC	-2.92	1.33	1.37
13	A	805	CLA	CHC-C4B	2.91	1.45	1.39
13	A	823	CLA	C1B-C2B	2.91	1.50	1.43
13	X	102	CLA	C4C-C3C	2.91	1.50	1.45
13	A	828	CLA	O2D-CGD	2.91	1.40	1.33
13	A	856	CLA	O2D-CGD	2.91	1.40	1.33
13	B	815	CLA	CHC-C4B	2.90	1.45	1.39
13	B	831	CLA	CHC-C1C	2.90	1.44	1.38
13	A	808	CLA	O2D-CGD	2.90	1.40	1.33
13	A	805	CLA	O2D-CGD	2.90	1.40	1.33
13	B	819	CLA	CHB-C1B	2.90	1.45	1.39
13	A	808	CLA	CHB-C1B	2.90	1.45	1.39
13	A	863	CLA	CHC-C1C	2.90	1.44	1.38
13	A	816	CLA	CHD-C1D	2.90	1.44	1.38
13	B	808	CLA	CHD-C4C	2.90	1.45	1.39
13	J	102	CLA	CHD-C4C	2.90	1.45	1.39
13	B	840	CLA	CHD-C4C	2.90	1.45	1.39
13	B	811	CLA	CHD-C1D	2.90	1.44	1.38
13	B	836	CLA	C3D-C4D	-2.89	1.37	1.44
13	B	848	CLA	C1D-ND	2.89	1.41	1.37
13	B	841	CLA	CHC-C1C	2.89	1.44	1.38
13	A	848	CLA	CBD-CGD	-2.89	1.43	1.52
13	K	101	CLA	CHC-C4B	2.89	1.45	1.39
15	A	838	BCR	C19-C18	-2.89	1.39	1.45
13	X	102	CLA	C4B-NB	-2.89	1.34	1.37
13	K	101	CLA	MG-NC	2.89	2.13	2.06
13	B	831	CLA	CHC-C4B	2.89	1.45	1.39
13	A	811	CLA	C3D-C2D	2.89	1.47	1.39
13	A	855	CLA	C3D-C2D	2.89	1.47	1.39
13	B	830	CLA	CHC-C4B	2.88	1.45	1.39
13	B	807	CLA	C3D-C4D	-2.88	1.37	1.44
13	A	819	CLA	C4D-ND	-2.88	1.33	1.37
13	A	850	CLA	O2D-CGD	2.88	1.40	1.33
15	A	838	BCR	C21-C22	2.88	1.39	1.35
13	A	833	CLA	CHD-C4C	2.87	1.45	1.39
13	B	844	CLA	CHB-C1B	2.87	1.45	1.39
13	A	863	CLA	C4D-ND	-2.87	1.33	1.37
13	B	844	CLA	C1C-NC	-2.87	1.33	1.37
15	B	822	BCR	C8-C9	-2.87	1.39	1.45
13	A	820	CLA	O2D-CGD	2.87	1.40	1.33
13	A	806	CLA	C3D-C4D	-2.86	1.37	1.44
13	B	832	CLA	C1B-C2B	2.86	1.50	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	821	CLA	CHC-C1C	2.86	1.44	1.38
13	A	811	CLA	CHC-C1C	2.86	1.44	1.38
13	B	845	CLA	C1C-NC	-2.85	1.33	1.37
13	A	856	CLA	MG-NC	2.85	2.13	2.06
13	A	820	CLA	O2D-CED	-2.85	1.38	1.45
13	A	820	CLA	C1C-NC	-2.85	1.33	1.37
13	B	848	CLA	CHC-C1C	2.84	1.44	1.38
13	B	833	CLA	C1B-NB	-2.84	1.34	1.37
13	B	828	CLA	C1D-ND	2.84	1.41	1.37
13	A	854	CLA	C3B-C4B	2.84	1.49	1.42
13	B	816	CLA	CHD-C4C	2.84	1.45	1.39
13	B	839	CLA	OBD-CAD	2.84	1.27	1.22
18	A	847	CL0	C1B-C2B	2.84	1.49	1.43
15	A	841	BCR	C21-C22	2.84	1.39	1.35
13	B	848	CLA	C1B-C2B	2.84	1.49	1.43
13	A	813	CLA	O2D-CED	-2.84	1.38	1.45
13	A	832	CLA	C3D-C2D	2.84	1.46	1.39
13	B	846	CLA	C3B-C4B	2.84	1.49	1.42
15	A	840	BCR	C21-C22	2.83	1.39	1.35
13	B	831	CLA	CAA-C2A	2.83	1.59	1.54
13	A	863	CLA	C1D-ND	2.83	1.41	1.37
13	B	808	CLA	CBD-CGD	-2.83	1.43	1.52
13	A	832	CLA	CHD-C4C	2.83	1.45	1.39
13	A	825	CLA	CMA-C3A	2.83	1.59	1.53
13	K	101	CLA	CHD-C1D	2.83	1.43	1.38
13	A	830	CLA	C1C-C2C	2.82	1.50	1.44
15	F	203	BCR	C23-C22	-2.82	1.39	1.45
13	A	810	CLA	C3D-C2D	2.82	1.46	1.39
13	B	835	CLA	CHB-C1B	2.82	1.45	1.39
13	B	814	CLA	MG-NC	2.82	2.13	2.06
14	B	823	PQN	C3-C2	2.82	1.40	1.35
13	A	816	CLA	CMD-C2D	-2.82	1.44	1.50
13	B	810	CLA	C1C-C2C	2.82	1.50	1.44
13	A	828	CLA	C3D-C4D	-2.82	1.37	1.44
13	A	811	CLA	C1B-NB	-2.81	1.34	1.37
13	A	819	CLA	CHD-C4C	2.81	1.45	1.39
13	B	832	CLA	MG-NC	2.81	2.12	2.06
13	B	829	CLA	CHD-C1D	2.80	1.43	1.38
15	A	841	BCR	C14-C13	2.80	1.39	1.35
13	A	807	CLA	C1C-NC	-2.80	1.33	1.37
13	A	820	CLA	C1C-C2C	2.80	1.50	1.44
13	B	813	CLA	MG-NC	2.80	2.12	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	B	802	BCR	C23-C22	-2.80	1.39	1.45
13	B	829	CLA	OBD-CAD	2.80	1.27	1.22
13	K	104	CLA	CHD-C4C	2.80	1.45	1.39
13	B	845	CLA	C1B-C2B	2.80	1.49	1.43
13	A	816	CLA	CHB-C1B	2.80	1.45	1.39
13	A	808	CLA	O2D-CED	-2.79	1.38	1.45
13	B	829	CLA	CAC-C3C	2.79	1.58	1.51
13	B	808	CLA	C4B-NB	-2.79	1.34	1.37
13	A	806	CLA	C3C-C2C	2.78	1.42	1.36
13	A	812	CLA	C4D-ND	-2.78	1.33	1.37
13	A	833	CLA	C3D-C4D	-2.78	1.37	1.44
13	B	846	CLA	MG-NA	2.78	2.12	2.06
13	A	831	CLA	C1B-NB	-2.78	1.34	1.37
15	A	842	BCR	C8-C9	-2.78	1.40	1.45
13	B	810	CLA	CHD-C1D	2.77	1.43	1.38
13	A	851	CLA	C3B-C4B	2.76	1.49	1.42
15	B	802	BCR	C29-C28	-2.76	1.45	1.52
13	A	823	CLA	CHB-C1B	2.76	1.45	1.39
13	A	831	CLA	C3D-C2D	2.76	1.46	1.39
13	A	810	CLA	C1B-C2B	2.76	1.49	1.43
13	A	829	CLA	C3C-C2C	2.76	1.42	1.36
13	B	837	CLA	CHD-C1D	2.76	1.43	1.38
13	B	808	CLA	C1C-C2C	2.76	1.49	1.44
13	B	837	CLA	C3B-C4B	2.76	1.49	1.42
13	J	101	CLA	CHD-C1D	2.76	1.43	1.38
13	A	829	CLA	CMB-C2B	2.76	1.56	1.50
13	B	837	CLA	C4D-ND	-2.76	1.33	1.37
13	A	857	CLA	C1B-C2B	2.75	1.49	1.43
13	A	811	CLA	CHD-C4C	2.75	1.45	1.39
13	A	853	CLA	C3C-C2C	2.75	1.42	1.36
13	B	841	CLA	OBD-CAD	2.75	1.27	1.22
13	A	818	CLA	C3D-C4D	-2.75	1.38	1.44
13	K	101	CLA	C1C-C2C	2.75	1.49	1.44
13	J	102	CLA	CHD-C1D	2.75	1.43	1.38
18	A	847	CL0	OBD-CAD	2.75	1.27	1.22
13	A	825	CLA	C3D-C4D	-2.75	1.38	1.44
13	B	811	CLA	MG-NC	2.75	2.12	2.06
13	A	844	CLA	C4B-NB	-2.74	1.34	1.37
13	A	851	CLA	O2D-CGD	2.74	1.39	1.33
13	B	835	CLA	C3D-C2D	2.74	1.46	1.39
13	A	805	CLA	CHB-C1B	2.74	1.45	1.39
13	B	845	CLA	CBC-CAC	2.74	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	K	101	CLA	C3D-C2D	2.74	1.46	1.39
13	A	829	CLA	C4D-CHA	2.74	1.48	1.38
13	B	844	CLA	O2D-CGD	2.74	1.39	1.33
13	A	821	CLA	O2D-CED	-2.74	1.38	1.45
13	B	847	CLA	C3D-C4D	-2.73	1.38	1.44
13	A	849	CLA	MG-NA	2.73	2.12	2.06
13	A	854	CLA	CHD-C4C	2.73	1.45	1.39
15	M	101	BCR	C21-C22	2.73	1.39	1.35
13	B	811	CLA	CHC-C4B	2.73	1.45	1.39
13	B	817	CLA	C1B-NB	-2.73	1.34	1.37
13	A	831	CLA	CHD-C4C	2.73	1.45	1.39
13	K	104	CLA	C1B-C2B	2.73	1.49	1.43
13	A	827	CLA	CHC-C1C	2.72	1.44	1.38
13	A	858	CLA	CHC-C4B	2.72	1.45	1.39
13	A	808	CLA	C4D-CHA	2.72	1.48	1.38
13	A	809	CLA	C1D-C2D	2.72	1.50	1.45
13	B	821	CLA	C1B-NB	-2.72	1.34	1.37
13	B	847	CLA	C1B-NB	-2.72	1.34	1.37
13	A	810	CLA	C1B-NB	-2.72	1.34	1.37
13	B	837	CLA	CHC-C4B	2.72	1.45	1.39
13	B	814	CLA	O2D-CGD	2.72	1.39	1.33
13	B	828	CLA	CHC-C4B	2.71	1.45	1.39
13	B	830	CLA	C1D-C2D	2.71	1.50	1.45
13	A	833	CLA	C3C-C2C	2.71	1.42	1.36
13	A	822	CLA	C3C-C2C	2.71	1.42	1.36
13	A	859	CLA	CHC-C4B	2.71	1.45	1.39
13	A	825	CLA	CHD-C1D	2.71	1.43	1.38
13	A	848	CLA	C3B-C4B	2.70	1.49	1.42
13	B	816	CLA	O2D-CGD	2.70	1.39	1.33
13	A	816	CLA	C3D-C2D	2.70	1.46	1.39
13	B	842	CLA	C1-C2	2.70	1.57	1.49
13	B	815	CLA	CHD-C1D	2.70	1.43	1.38
13	B	818	CLA	CHD-C4C	2.70	1.45	1.39
13	A	829	CLA	MG-NA	2.70	2.12	2.06
13	F	204	CLA	C3D-C2D	2.70	1.46	1.39
13	A	859	CLA	C3D-C4D	-2.70	1.38	1.44
13	A	810	CLA	OBD-CAD	2.70	1.27	1.22
13	A	806	CLA	CHD-C4C	2.69	1.45	1.39
13	K	104	CLA	CHC-C4B	2.69	1.45	1.39
13	A	820	CLA	O2A-CGA	2.69	1.41	1.33
13	A	828	CLA	C1D-ND	2.69	1.41	1.37
13	A	824	CLA	CHD-C1D	2.68	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	827	CLA	C4B-NB	-2.68	1.34	1.37
13	A	813	CLA	CBC-CAC	-2.68	1.39	1.51
13	B	845	CLA	C3D-C4D	-2.68	1.38	1.44
13	B	845	CLA	O2D-CGD	2.68	1.39	1.33
13	B	834	CLA	CHD-C4C	2.68	1.45	1.39
13	A	809	CLA	C4B-NB	-2.68	1.34	1.37
13	B	850	CLA	CHC-C4B	2.67	1.45	1.39
13	B	842	CLA	C3B-C4B	2.67	1.49	1.42
13	A	823	CLA	C3D-C2D	2.67	1.46	1.39
19	B	804	LMG	C12-C11	-2.67	1.42	1.52
13	B	818	CLA	CHD-C1D	2.67	1.43	1.38
13	A	817	CLA	CHC-C4B	2.67	1.45	1.39
13	B	842	CLA	C1B-NB	-2.67	1.34	1.37
13	A	813	CLA	C4C-C3C	2.67	1.49	1.45
13	B	807	CLA	C1B-C2B	2.67	1.49	1.43
13	B	837	CLA	C1B-C2B	2.67	1.49	1.43
13	A	817	CLA	C1D-ND	2.66	1.41	1.37
13	B	832	CLA	C3D-C2D	2.66	1.46	1.39
13	F	204	CLA	C1D-C2D	2.66	1.50	1.45
13	B	809	CLA	CHC-C1C	2.66	1.43	1.38
13	A	805	CLA	MG-NC	2.66	2.12	2.06
13	A	859	CLA	C3D-C2D	2.66	1.46	1.39
15	A	840	BCR	C2-C3	-2.65	1.46	1.52
13	A	808	CLA	O1A-CGA	-2.65	1.14	1.22
13	A	813	CLA	C4D-CHA	2.65	1.47	1.38
13	A	828	CLA	CHD-C1D	2.65	1.43	1.38
13	B	814	CLA	CHB-C1B	2.65	1.45	1.39
13	B	811	CLA	C3B-C4B	2.65	1.49	1.42
13	A	848	CLA	C3C-C2C	2.65	1.42	1.36
13	A	828	CLA	O2D-CED	-2.65	1.39	1.45
13	A	821	CLA	CHD-C1D	2.65	1.43	1.38
15	A	838	BCR	C8-C9	-2.65	1.40	1.45
13	B	834	CLA	CHD-C1D	2.65	1.43	1.38
13	B	842	CLA	C2-C3	2.65	1.39	1.33
13	B	833	CLA	C3C-C2C	2.65	1.42	1.36
13	B	837	CLA	C4D-CHA	2.65	1.47	1.38
13	A	851	CLA	C4C-C3C	2.64	1.49	1.45
13	F	204	CLA	CHD-C1D	2.64	1.43	1.38
13	F	204	CLA	CHC-C1C	2.64	1.43	1.38
13	A	849	CLA	C3D-C2D	2.64	1.46	1.39
13	A	829	CLA	CHD-C4C	2.64	1.45	1.39
13	B	843	CLA	C1B-NB	-2.64	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	825	CLA	C4D-ND	-2.64	1.34	1.37
13	A	819	CLA	C6-C7	-2.64	1.40	1.52
13	A	828	CLA	C3C-C2C	2.64	1.42	1.36
13	A	810	CLA	O2D-CGD	2.64	1.39	1.33
13	A	819	CLA	C1B-C2B	2.63	1.49	1.43
13	J	102	CLA	C4C-C3C	2.63	1.49	1.45
13	A	824	CLA	O2D-CGD	2.63	1.39	1.33
13	A	830	CLA	CHB-C1B	2.63	1.45	1.39
13	A	850	CLA	C3B-C4B	2.63	1.48	1.42
13	A	815	CLA	OBD-CAD	2.63	1.27	1.22
13	B	834	CLA	CHC-C4B	2.63	1.45	1.39
13	B	850	CLA	CHB-C1B	2.62	1.45	1.39
13	B	840	CLA	C3C-C2C	2.62	1.42	1.36
15	B	803	BCR	C8-C9	-2.62	1.40	1.45
13	A	819	CLA	OBD-CAD	2.62	1.27	1.22
13	B	848	CLA	C3D-C4D	-2.62	1.38	1.44
13	B	810	CLA	CHB-C1B	2.61	1.45	1.39
15	F	206	BCR	C10-C9	2.61	1.39	1.35
13	A	821	CLA	C1B-NB	-2.61	1.34	1.37
13	A	855	CLA	CHC-C1C	2.61	1.43	1.38
13	B	805	CLA	CHB-C1B	2.61	1.45	1.39
13	A	814	CLA	O2D-CGD	2.61	1.39	1.33
13	B	836	CLA	MG-NC	2.60	2.12	2.06
13	B	815	CLA	CMD-C2D	-2.60	1.45	1.50
13	A	810	CLA	CHB-C1B	2.60	1.45	1.39
13	B	835	CLA	C4D-CHA	2.60	1.47	1.38
13	A	808	CLA	O2A-CGA	2.60	1.40	1.33
13	A	827	CLA	C2-C3	2.60	1.39	1.33
13	A	849	CLA	C1D-C2D	2.60	1.50	1.45
13	A	821	CLA	CHD-C4C	2.59	1.45	1.39
13	A	858	CLA	C1B-NB	-2.59	1.34	1.37
13	A	819	CLA	C3D-C2D	2.59	1.46	1.39
13	B	820	CLA	MG-NC	2.59	2.12	2.06
13	A	815	CLA	C6-C5	-2.59	1.42	1.52
15	K	103	BCR	C20-C19	2.59	1.41	1.34
13	A	859	CLA	OBD-CAD	2.59	1.26	1.22
13	K	104	CLA	CHD-C1D	2.58	1.43	1.38
13	X	102	CLA	CHD-C4C	2.58	1.45	1.39
15	J	103	BCR	C8-C9	-2.58	1.40	1.45
13	B	820	CLA	CHB-C1B	2.58	1.45	1.39
13	A	833	CLA	CHB-C1B	2.58	1.45	1.39
13	B	849	CLA	C4D-ND	-2.58	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	825	CLA	CHC-C4B	2.58	1.45	1.39
13	A	813	CLA	C1C-C2C	2.58	1.49	1.44
13	B	820	CLA	CAA-CBA	-2.58	1.44	1.52
15	A	842	BCR	C23-C22	-2.57	1.40	1.45
13	A	849	CLA	MG-NC	2.57	2.12	2.06
13	J	101	CLA	C3D-C2D	2.57	1.46	1.39
13	A	863	CLA	OBD-CAD	2.57	1.26	1.22
13	B	847	CLA	CHC-C1C	2.57	1.43	1.38
13	B	834	CLA	C3D-C4D	-2.57	1.38	1.44
15	M	101	BCR	C8-C9	-2.57	1.40	1.45
13	A	860	CLA	MG-NC	2.56	2.12	2.06
13	A	823	CLA	CHD-C4C	2.56	1.45	1.39
13	A	805	CLA	C4D-ND	-2.56	1.34	1.37
13	B	840	CLA	CHD-C1D	2.56	1.43	1.38
13	B	848	CLA	C1B-NB	-2.56	1.34	1.37
13	A	820	CLA	C1D-C2D	2.56	1.50	1.45
13	B	836	CLA	C4B-NB	-2.56	1.34	1.37
13	B	828	CLA	CAA-C2A	2.56	1.58	1.54
13	B	842	CLA	O2D-CED	-2.56	1.39	1.45
13	B	805	CLA	O2D-CGD	2.56	1.39	1.33
13	A	858	CLA	O2A-C1	-2.55	1.39	1.46
13	A	808	CLA	C3B-C4B	2.55	1.48	1.42
13	A	824	CLA	C5-C3	-2.55	1.46	1.51
13	J	102	CLA	C3D-C2D	2.55	1.46	1.39
13	B	805	CLA	O2A-CGA	2.55	1.40	1.33
13	J	101	CLA	C1B-C2B	2.54	1.49	1.43
13	B	809	CLA	C3D-C4D	-2.54	1.38	1.44
13	B	819	CLA	MG-NC	2.54	2.12	2.06
13	A	827	CLA	C4D-ND	-2.54	1.34	1.37
13	B	849	CLA	C3D-C4D	-2.54	1.38	1.44
13	B	816	CLA	CHC-C1C	2.54	1.43	1.38
13	B	846	CLA	CHB-C1B	2.54	1.45	1.39
13	A	829	CLA	C1C-NC	-2.54	1.34	1.37
13	F	204	CLA	C4C-C3C	2.54	1.49	1.45
13	A	858	CLA	C4D-ND	-2.53	1.34	1.37
15	A	862	BCR	C11-C10	-2.53	1.35	1.43
13	J	102	CLA	CHC-C4B	2.53	1.45	1.39
13	B	847	CLA	O2D-CED	-2.53	1.39	1.45
13	A	826	CLA	MG-ND	2.53	2.10	2.05
15	M	101	BCR	C20-C21	-2.53	1.35	1.43
15	B	803	BCR	C12-C13	-2.53	1.40	1.45
15	F	202	BCR	C20-C19	2.53	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	843	CLA	C1B-C2B	2.53	1.49	1.43
13	A	826	CLA	C3D-C4D	-2.53	1.38	1.44
13	X	102	CLA	CHC-C1C	2.53	1.43	1.38
13	A	849	CLA	O2A-CGA	2.53	1.40	1.33
13	J	101	CLA	CHC-C4B	2.52	1.45	1.39
13	B	805	CLA	C1B-C2B	2.52	1.49	1.43
13	A	805	CLA	CBD-CGD	-2.52	1.44	1.52
13	A	860	CLA	CHD-C4C	2.52	1.45	1.39
13	B	839	CLA	C4D-ND	-2.52	1.34	1.37
13	B	810	CLA	O2D-CED	-2.52	1.39	1.45
13	A	820	CLA	CHC-C4B	2.52	1.45	1.39
13	A	817	CLA	O2D-CED	-2.52	1.39	1.45
13	B	846	CLA	CHC-C1C	2.52	1.43	1.38
13	A	809	CLA	CAC-C3C	2.51	1.57	1.51
15	F	203	BCR	C10-C9	2.51	1.39	1.35
13	A	814	CLA	C1D-ND	2.51	1.40	1.37
13	B	834	CLA	MG-NC	2.51	2.12	2.06
13	A	824	CLA	CHB-C1B	2.51	1.45	1.39
13	A	844	CLA	CHC-C4B	2.51	1.45	1.39
13	B	820	CLA	C4D-ND	-2.51	1.34	1.37
13	A	811	CLA	C3C-C2C	2.50	1.42	1.36
13	B	843	CLA	C3D-C4D	-2.50	1.38	1.44
13	A	863	CLA	CHD-C4C	2.50	1.44	1.39
13	A	844	CLA	CMA-C3A	-2.50	1.47	1.53
13	A	807	CLA	C3D-C2D	2.50	1.45	1.39
15	B	824	BCR	C8-C9	-2.49	1.40	1.45
13	B	837	CLA	CHC-C1C	2.49	1.43	1.38
13	B	850	CLA	CHD-C1D	2.49	1.43	1.38
13	B	832	CLA	C4D-ND	2.48	1.41	1.37
13	A	855	CLA	MG-NC	2.48	2.12	2.06
13	A	830	CLA	OBD-CAD	2.48	1.26	1.22
13	A	813	CLA	C3D-C4D	-2.48	1.38	1.44
13	A	818	CLA	CHB-C1B	2.48	1.45	1.39
13	A	833	CLA	C1B-C2B	2.48	1.49	1.43
13	F	201	CLA	C4D-CHA	2.48	1.47	1.38
13	A	854	CLA	CAA-C2A	2.48	1.58	1.54
13	B	833	CLA	C4D-ND	-2.48	1.34	1.37
13	X	102	CLA	C4D-ND	-2.48	1.34	1.37
15	B	822	BCR	C19-C18	-2.48	1.40	1.45
13	B	846	CLA	C4D-ND	-2.47	1.34	1.37
13	B	837	CLA	O2A-C1	-2.47	1.39	1.46
13	A	820	CLA	MG-NC	2.47	2.12	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	836	CLA	C4D-CHA	2.47	1.47	1.38
13	A	830	CLA	C1C-NC	-2.47	1.34	1.37
13	B	821	CLA	C1B-C2B	2.47	1.49	1.43
13	A	806	CLA	CHC-C1C	2.47	1.43	1.38
13	A	833	CLA	C1C-NC	-2.47	1.34	1.37
13	A	817	CLA	C4D-CHA	2.46	1.47	1.38
13	A	850	CLA	C3D-C4D	-2.46	1.38	1.44
13	A	853	CLA	C3D-C4D	-2.46	1.38	1.44
13	B	836	CLA	C1C-C2C	2.46	1.49	1.44
13	B	807	CLA	CHB-C1B	2.46	1.44	1.39
18	A	847	CL0	C4D-ND	-2.46	1.34	1.37
13	B	849	CLA	C4D-CHA	2.46	1.47	1.38
13	B	838	CLA	C1C-NC	-2.46	1.34	1.37
13	A	823	CLA	O2A-CGA	2.46	1.40	1.33
13	A	832	CLA	C1D-C2D	2.46	1.50	1.45
13	A	860	CLA	MG-ND	-2.46	2.00	2.05
13	B	829	CLA	CAA-C2A	2.46	1.58	1.54
13	B	849	CLA	CHC-C4B	2.45	1.44	1.39
13	A	826	CLA	CAA-C2A	-2.45	1.49	1.54
13	A	811	CLA	C1B-C2B	2.45	1.49	1.43
13	A	851	CLA	C3D-C4D	-2.45	1.38	1.44
13	B	808	CLA	C4D-CHA	2.45	1.47	1.38
13	A	818	CLA	O2D-CGD	2.45	1.39	1.33
15	A	862	BCR	C8-C9	-2.45	1.40	1.45
13	B	810	CLA	C3D-C4D	-2.45	1.38	1.44
13	A	815	CLA	C1B-NB	-2.45	1.34	1.37
13	B	816	CLA	CHD-C1D	2.44	1.43	1.38
13	F	204	CLA	C3B-C4B	2.44	1.48	1.42
13	A	861	CLA	CHD-C4C	2.44	1.44	1.39
13	A	812	CLA	O1D-CGD	2.44	1.27	1.21
13	A	812	CLA	C1B-C2B	2.44	1.49	1.43
13	A	820	CLA	CHC-C1C	2.44	1.43	1.38
13	B	817	CLA	C1B-C2B	2.44	1.49	1.43
13	B	841	CLA	CHB-C1B	2.43	1.44	1.39
13	A	826	CLA	C3D-C2D	2.43	1.45	1.39
13	B	835	CLA	C1B-C2B	2.43	1.49	1.43
15	B	803	BCR	C14-C13	2.42	1.39	1.35
13	B	821	CLA	CHC-C1C	2.42	1.43	1.38
13	B	820	CLA	CHD-C1D	2.42	1.43	1.38
13	B	815	CLA	C1C-NC	-2.42	1.34	1.37
13	A	853	CLA	C1B-C2B	2.42	1.48	1.43
13	A	819	CLA	C4D-CHA	2.42	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	810	CLA	C3D-C2D	2.42	1.45	1.39
13	A	851	CLA	CHC-C4B	2.42	1.44	1.39
13	A	806	CLA	C4D-CHA	2.42	1.47	1.38
13	A	809	CLA	O2D-CGD	2.41	1.39	1.33
13	A	848	CLA	CBA-CGA	-2.41	1.43	1.50
13	A	808	CLA	C4B-NB	-2.41	1.34	1.37
13	A	857	CLA	C1C-NC	2.41	1.41	1.37
13	B	805	CLA	CAC-C3C	2.41	1.57	1.51
13	A	850	CLA	C4D-CHA	2.41	1.47	1.38
13	A	814	CLA	C3D-C2D	2.41	1.45	1.39
13	F	201	CLA	CHD-C4C	2.41	1.44	1.39
13	B	839	CLA	CHD-C4C	2.40	1.44	1.39
15	B	825	BCR	C35-C13	2.40	1.55	1.50
13	B	849	CLA	CAA-C2A	-2.40	1.49	1.54
15	A	840	BCR	C23-C22	-2.40	1.40	1.45
13	B	833	CLA	CHC-C1C	2.40	1.43	1.38
13	A	817	CLA	CHC-C1C	2.40	1.43	1.38
13	A	861	CLA	O2D-CGD	2.40	1.39	1.33
13	A	848	CLA	C1B-NB	-2.40	1.34	1.37
13	B	807	CLA	CHD-C4C	2.40	1.44	1.39
13	A	821	CLA	C1C-C2C	2.40	1.49	1.44
13	A	805	CLA	C3D-C4D	-2.40	1.38	1.44
13	B	841	CLA	C1D-ND	2.40	1.40	1.37
13	A	863	CLA	C3D-C4D	-2.40	1.38	1.44
13	B	813	CLA	CHC-C1C	2.39	1.43	1.38
13	B	811	CLA	C3D-C2D	2.39	1.45	1.39
13	A	848	CLA	O2D-CGD	2.39	1.39	1.33
13	J	102	CLA	C1B-NB	-2.39	1.34	1.37
13	A	821	CLA	C4D-CHA	2.39	1.46	1.38
13	A	812	CLA	CHD-C4C	2.39	1.44	1.39
13	B	839	CLA	CAA-C2A	2.39	1.58	1.54
18	A	847	CL0	CHC-C1C	2.39	1.43	1.38
13	B	807	CLA	C1C-NC	-2.39	1.34	1.37
13	F	201	CLA	C1D-C2D	2.39	1.50	1.45
13	A	851	CLA	C3D-C2D	2.38	1.45	1.39
13	B	838	CLA	C4D-CHA	2.38	1.46	1.38
13	B	821	CLA	C3B-C4B	2.38	1.48	1.42
15	B	803	BCR	C17-C18	2.38	1.38	1.35
13	K	101	CLA	C4C-C3C	2.38	1.49	1.45
13	A	812	CLA	MG-NC	2.38	2.11	2.06
13	A	809	CLA	C4D-ND	-2.38	1.34	1.37
13	B	830	CLA	O2D-CGD	2.38	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	814	CLA	CHC-C4B	2.37	1.44	1.39
13	B	815	CLA	MG-NC	2.37	2.11	2.06
13	K	104	CLA	C4C-C3C	2.37	1.49	1.45
13	B	807	CLA	CBC-CAC	-2.37	1.40	1.51
13	A	810	CLA	C1D-C2D	2.37	1.50	1.45
13	F	204	CLA	C4D-ND	-2.37	1.34	1.37
13	B	832	CLA	C4B-NB	-2.37	1.34	1.37
13	K	101	CLA	C3B-C4B	2.36	1.48	1.42
13	B	807	CLA	C3D-C2D	2.36	1.45	1.39
13	B	821	CLA	CHD-C1D	2.36	1.43	1.38
13	A	828	CLA	C1B-C2B	2.36	1.48	1.43
13	B	836	CLA	C16-C17	-2.36	1.42	1.52
13	A	805	CLA	C1B-C2B	2.36	1.48	1.43
13	A	854	CLA	C1D-C2D	2.36	1.50	1.45
15	K	103	BCR	C11-C12	2.36	1.40	1.34
13	B	818	CLA	C1C-NC	-2.36	1.34	1.37
13	A	821	CLA	CHB-C1B	2.36	1.44	1.39
13	A	826	CLA	C1B-C2B	2.35	1.48	1.43
13	A	857	CLA	C4D-CHA	2.35	1.46	1.38
13	A	849	CLA	C4B-NB	-2.35	1.34	1.37
18	A	847	CL0	C3C-C2C	2.35	1.41	1.36
13	K	104	CLA	MG-ND	-2.35	2.01	2.05
13	B	815	CLA	CHC-C1C	2.35	1.43	1.38
15	A	838	BCR	C15-C14	-2.35	1.36	1.43
13	B	819	CLA	OBD-CAD	2.35	1.26	1.22
13	A	848	CLA	C1C-NC	-2.34	1.34	1.37
13	B	833	CLA	C1D-C2D	2.34	1.49	1.45
15	A	862	BCR	C17-C18	2.34	1.38	1.35
13	B	820	CLA	C3D-C2D	2.33	1.45	1.39
13	B	808	CLA	CHB-C1B	2.33	1.44	1.39
13	A	850	CLA	CMD-C2D	-2.33	1.45	1.50
13	A	851	CLA	C1B-C2B	2.33	1.48	1.43
13	A	830	CLA	CHD-C4C	2.33	1.44	1.39
13	A	818	CLA	C3B-C4B	2.33	1.48	1.42
18	A	847	CL0	CMB-C2B	-2.33	1.45	1.50
13	B	806	CLA	C1B-C2B	2.33	1.48	1.43
13	B	813	CLA	O2A-C1	-2.33	1.39	1.46
13	B	831	CLA	O2D-CGD	2.33	1.38	1.33
13	B	834	CLA	O2D-CGD	2.33	1.38	1.33
13	F	201	CLA	C4D-ND	-2.32	1.34	1.37
13	A	855	CLA	C3C-C2C	2.32	1.41	1.36
13	A	810	CLA	CHC-C4B	2.32	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	831	CLA	C1B-C2B	2.32	1.48	1.43
13	B	850	CLA	CAA-C2A	-2.32	1.49	1.54
13	A	833	CLA	CHC-C4B	2.32	1.44	1.39
15	A	841	BCR	C36-C18	2.32	1.55	1.50
13	A	848	CLA	C1B-C2B	2.32	1.48	1.43
15	F	203	BCR	C15-C14	-2.32	1.36	1.43
15	B	824	BCR	C19-C18	-2.32	1.41	1.45
13	B	843	CLA	CHD-C4C	2.31	1.44	1.39
13	A	855	CLA	CMD-C2D	-2.31	1.45	1.50
15	A	838	BCR	C35-C13	2.31	1.55	1.50
13	B	850	CLA	C1C-NC	-2.31	1.34	1.37
13	A	861	CLA	CHC-C4B	2.31	1.44	1.39
13	B	830	CLA	CMD-C2D	-2.31	1.45	1.50
15	A	840	BCR	C19-C18	-2.31	1.41	1.45
13	A	818	CLA	CHD-C4C	2.31	1.44	1.39
13	A	807	CLA	CMD-C2D	-2.30	1.45	1.50
15	A	862	BCR	C2-C3	-2.30	1.46	1.52
13	A	820	CLA	CHD-C1D	2.30	1.42	1.38
13	B	816	CLA	OBD-CAD	2.30	1.26	1.22
13	B	820	CLA	CBA-CGA	2.30	1.57	1.50
15	J	103	BCR	C14-C13	2.30	1.38	1.35
13	A	858	CLA	C3B-C4B	2.30	1.48	1.42
13	B	817	CLA	MG-NB	-2.30	2.01	2.05
13	B	831	CLA	CHD-C4C	2.29	1.44	1.39
13	B	838	CLA	CHB-C4A	-2.29	1.32	1.37
13	A	831	CLA	C1C-C2C	2.29	1.49	1.44
13	A	855	CLA	MG-NA	-2.28	2.00	2.06
13	B	840	CLA	OBD-CAD	2.28	1.26	1.22
13	B	834	CLA	CBD-CGD	-2.28	1.45	1.52
13	A	814	CLA	C4D-CHA	2.28	1.46	1.38
13	A	823	CLA	C3D-C4D	-2.28	1.39	1.44
13	A	857	CLA	C3B-C4B	2.28	1.48	1.42
13	J	101	CLA	C3B-C4B	2.27	1.48	1.42
13	A	815	CLA	C3D-C4D	-2.27	1.39	1.44
13	B	833	CLA	OBD-CAD	2.27	1.26	1.22
13	B	809	CLA	C1C-NC	-2.27	1.34	1.37
13	A	853	CLA	C2-C3	-2.27	1.27	1.33
13	B	835	CLA	CHD-C4C	2.27	1.44	1.39
13	B	843	CLA	C4D-ND	-2.27	1.34	1.37
13	A	858	CLA	C3D-C2D	2.27	1.45	1.39
18	A	847	CL0	C3B-C4B	2.26	1.48	1.42
13	B	821	CLA	MG-NC	2.26	2.11	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	831	CLA	C4D-CHA	2.26	1.46	1.38
13	B	838	CLA	MG-NA	2.26	2.11	2.06
13	B	839	CLA	MG-NC	2.26	2.11	2.06
13	A	823	CLA	CHC-C1C	2.26	1.43	1.38
13	A	816	CLA	C4D-CHA	2.26	1.46	1.38
13	A	827	CLA	C1-C2	2.26	1.55	1.49
13	A	807	CLA	CHD-C1D	2.26	1.42	1.38
13	B	810	CLA	C1B-C2B	2.26	1.48	1.43
13	B	842	CLA	CHD-C4C	2.25	1.44	1.39
13	B	810	CLA	CHD-C4C	2.25	1.44	1.39
15	A	840	BCR	C16-C17	-2.25	1.36	1.43
13	B	813	CLA	C5-C3	-2.25	1.46	1.51
13	B	814	CLA	O2A-C1	-2.25	1.39	1.46
13	A	830	CLA	CHC-C1C	2.25	1.43	1.38
15	J	104	BCR	C19-C18	-2.25	1.41	1.45
13	B	838	CLA	CHD-C4C	2.25	1.44	1.39
13	B	850	CLA	C3D-C2D	2.25	1.45	1.39
13	A	818	CLA	MG-NC	2.24	2.11	2.06
13	A	863	CLA	O2D-CGD	2.24	1.38	1.33
13	B	837	CLA	OBD-CAD	2.24	1.26	1.22
13	B	842	CLA	C5-C3	2.24	1.55	1.51
13	B	821	CLA	C3D-C4D	-2.24	1.39	1.44
13	A	831	CLA	C1D-C2D	2.24	1.49	1.45
13	B	807	CLA	CHD-C1D	2.23	1.42	1.38
15	A	839	BCR	C8-C9	-2.23	1.41	1.45
13	A	861	CLA	OBD-CAD	2.23	1.26	1.22
13	B	846	CLA	CHC-C4B	2.23	1.44	1.39
13	B	833	CLA	CHD-C1D	2.23	1.42	1.38
13	A	844	CLA	C3D-C2D	2.23	1.45	1.39
13	B	846	CLA	C4D-CHA	2.23	1.46	1.38
15	B	826	BCR	C30-C25	-2.23	1.50	1.53
13	A	849	CLA	CHD-C4C	2.23	1.44	1.39
13	B	847	CLA	CBC-CAC	-2.23	1.41	1.51
13	X	102	CLA	C3D-C2D	2.22	1.45	1.39
13	B	809	CLA	C3C-C2C	2.22	1.41	1.36
13	A	856	CLA	C3D-C2D	2.22	1.45	1.39
13	J	102	CLA	MG-NC	2.22	2.11	2.06
15	A	841	BCR	C11-C10	-2.22	1.36	1.43
13	A	854	CLA	MG-NC	2.22	2.11	2.06
13	B	829	CLA	O2D-CGD	2.22	1.38	1.33
13	A	818	CLA	OBD-CAD	2.22	1.26	1.22
13	B	830	CLA	C1B-NB	-2.22	1.35	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	819	CLA	C1B-NB	-2.22	1.35	1.37
13	B	849	CLA	CHD-C1D	2.22	1.42	1.38
13	B	838	CLA	CHC-C4B	2.22	1.44	1.39
15	F	203	BCR	C8-C9	-2.21	1.41	1.45
15	J	103	BCR	C23-C22	-2.21	1.41	1.45
13	K	101	CLA	C1D-C2D	2.21	1.49	1.45
13	A	831	CLA	MG-NC	2.21	2.11	2.06
13	B	840	CLA	C1C-NC	-2.21	1.34	1.37
13	B	850	CLA	O2D-CGD	2.21	1.38	1.33
13	B	807	CLA	MG-NC	2.21	2.11	2.06
13	B	806	CLA	CHB-C1B	2.21	1.44	1.39
15	J	103	BCR	C16-C17	-2.21	1.36	1.43
13	A	805	CLA	CMD-C2D	-2.21	1.46	1.50
13	A	848	CLA	C3D-C2D	2.21	1.45	1.39
13	B	829	CLA	CHD-C4C	2.21	1.44	1.39
13	B	828	CLA	C3C-C2C	2.20	1.41	1.36
13	A	824	CLA	CHC-C1C	2.20	1.43	1.38
13	B	820	CLA	CMD-C2D	-2.20	1.46	1.50
13	A	819	CLA	C5-C3	-2.20	1.46	1.51
13	F	201	CLA	C1C-C2C	2.20	1.48	1.44
13	A	848	CLA	CHD-C4C	2.20	1.44	1.39
13	B	840	CLA	C1D-C2D	2.20	1.49	1.45
15	A	841	BCR	C23-C22	-2.20	1.41	1.45
13	B	805	CLA	CHD-C4C	2.20	1.44	1.39
13	A	853	CLA	CHC-C4B	2.19	1.44	1.39
15	B	825	BCR	C23-C22	-2.19	1.41	1.45
15	F	203	BCR	C14-C13	2.19	1.38	1.35
13	B	836	CLA	O2A-CGA	2.19	1.39	1.33
13	B	844	CLA	CAA-C2A	-2.19	1.50	1.54
13	B	845	CLA	OBD-CAD	2.19	1.26	1.22
13	A	832	CLA	C4D-ND	-2.19	1.34	1.37
13	B	811	CLA	C4D-CHA	2.19	1.46	1.38
13	A	856	CLA	C3B-C2B	2.19	1.48	1.41
13	A	822	CLA	C3B-C4B	2.19	1.47	1.42
13	B	808	CLA	CHD-C1D	2.19	1.42	1.38
13	A	833	CLA	MG-NC	2.19	2.11	2.06
13	B	845	CLA	C1D-C2D	2.19	1.49	1.45
13	B	819	CLA	C3B-C4B	2.19	1.47	1.42
13	A	831	CLA	C3D-C4D	-2.18	1.39	1.44
13	A	815	CLA	C1B-C2B	2.18	1.48	1.43
13	A	859	CLA	C3B-C2B	2.18	1.48	1.41
13	A	853	CLA	C6-C7	-2.18	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	J	101	CLA	C4B-NB	-2.18	1.35	1.37
15	J	103	BCR	C21-C22	2.18	1.38	1.35
15	M	101	BCR	C15-C14	-2.18	1.36	1.43
13	A	805	CLA	C3D-C2D	2.18	1.45	1.39
13	B	817	CLA	CHC-C4B	2.18	1.44	1.39
13	A	863	CLA	C4C-C3C	2.17	1.48	1.45
13	B	821	CLA	C1C-NC	-2.17	1.34	1.37
15	B	802	BCR	C8-C9	-2.17	1.41	1.45
13	A	808	CLA	CBA-CGA	-2.17	1.44	1.50
13	A	831	CLA	C3B-C4B	2.17	1.47	1.42
13	B	834	CLA	O2A-CGA	2.17	1.39	1.33
13	A	863	CLA	CHC-C4B	2.17	1.44	1.39
13	A	860	CLA	C1B-C2B	2.17	1.48	1.43
15	A	862	BCR	C16-C17	-2.17	1.36	1.43
13	A	818	CLA	MG-ND	-2.16	2.01	2.05
13	A	817	CLA	MG-ND	-2.16	2.01	2.05
13	A	812	CLA	CMA-C3A	-2.16	1.48	1.53
13	B	834	CLA	C4B-NB	-2.16	1.35	1.37
13	X	102	CLA	C1D-C2D	2.16	1.49	1.45
13	B	806	CLA	C4C-C3C	2.16	1.48	1.45
13	A	826	CLA	CBA-CGA	-2.16	1.44	1.50
13	F	201	CLA	C1B-C2B	2.16	1.48	1.43
13	A	832	CLA	C3D-C4D	-2.16	1.39	1.44
13	A	814	CLA	C1B-NB	-2.15	1.35	1.37
13	A	814	CLA	O2D-CED	-2.15	1.40	1.45
13	A	805	CLA	CHD-C4C	2.15	1.44	1.39
13	A	823	CLA	O2D-CGD	2.15	1.38	1.33
13	A	850	CLA	C3C-C2C	2.15	1.41	1.36
13	B	830	CLA	C3C-C2C	2.15	1.41	1.36
13	B	831	CLA	C4B-NB	-2.15	1.35	1.37
13	J	101	CLA	MG-NC	2.15	2.11	2.06
15	A	862	BCR	C29-C28	-2.15	1.47	1.52
15	A	839	BCR	C2-C3	-2.14	1.47	1.52
13	B	813	CLA	C9-C8	-2.14	1.46	1.52
13	A	854	CLA	CBD-CGD	-2.14	1.45	1.52
15	A	862	BCR	C14-C13	2.14	1.38	1.35
15	J	104	BCR	C23-C22	-2.14	1.41	1.45
13	A	829	CLA	CAA-CBA	-2.14	1.46	1.52
13	A	808	CLA	C1B-C2B	2.14	1.48	1.43
13	B	815	CLA	CHD-C4C	2.14	1.44	1.39
13	A	823	CLA	C1C-NC	-2.13	1.34	1.37
13	A	859	CLA	CHB-C1B	2.13	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	B	826	BCR	C19-C18	-2.13	1.41	1.45
13	A	860	CLA	CBA-CGA	2.13	1.56	1.50
13	A	815	CLA	CHB-C1B	2.13	1.44	1.39
13	A	848	CLA	CHC-C4B	2.13	1.44	1.39
13	B	805	CLA	C1D-C2D	2.13	1.49	1.45
13	B	834	CLA	C3C-C2C	2.13	1.41	1.36
13	B	820	CLA	MG-NA	2.13	2.11	2.06
13	K	104	CLA	MG-NC	2.13	2.11	2.06
13	A	820	CLA	MG-NA	2.13	2.11	2.06
13	A	859	CLA	CHD-C1D	2.13	1.42	1.38
13	A	859	CLA	C1D-C2D	2.13	1.49	1.45
13	B	828	CLA	MG-NB	-2.12	2.01	2.05
13	A	815	CLA	C4D-ND	-2.12	1.34	1.37
13	A	823	CLA	C2A-C1A	-2.12	1.47	1.52
13	A	824	CLA	C1B-C2B	2.12	1.48	1.43
13	A	824	CLA	MG-NC	2.12	2.11	2.06
13	B	845	CLA	C2-C3	2.12	1.38	1.33
13	B	821	CLA	C3D-C2D	2.12	1.44	1.39
15	J	103	BCR	C15-C14	-2.12	1.36	1.43
13	A	830	CLA	MG-NC	2.12	2.11	2.06
13	B	816	CLA	C4C-C3C	2.11	1.48	1.45
13	A	824	CLA	CHC-C4B	2.11	1.44	1.39
13	A	860	CLA	CHC-C4B	2.11	1.44	1.39
13	A	822	CLA	C4D-ND	-2.11	1.34	1.37
13	A	854	CLA	O2D-CED	-2.11	1.40	1.45
13	A	854	CLA	O2D-CGD	2.11	1.38	1.33
13	B	850	CLA	C4D-CHA	2.11	1.45	1.38
15	A	841	BCR	C35-C13	2.11	1.55	1.50
13	A	832	CLA	C3B-C4B	2.11	1.47	1.42
13	A	820	CLA	CBA-CGA	-2.11	1.44	1.50
13	B	830	CLA	C3D-C2D	2.11	1.44	1.39
13	B	841	CLA	CBD-CGD	-2.11	1.45	1.52
15	F	206	BCR	C14-C13	2.11	1.38	1.35
13	A	818	CLA	C4D-ND	2.11	1.40	1.37
15	B	825	BCR	C11-C10	-2.10	1.36	1.43
13	B	808	CLA	C3D-C4D	-2.10	1.39	1.44
13	B	833	CLA	MG-NC	2.10	2.11	2.06
13	A	830	CLA	C1B-NB	-2.10	1.35	1.37
13	B	834	CLA	O2D-CED	-2.10	1.40	1.45
15	F	206	BCR	C8-C9	-2.10	1.41	1.45
13	B	809	CLA	MG-NC	2.10	2.11	2.06
15	B	826	BCR	C29-C28	-2.10	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	808	CLA	C1C-C2C	2.09	1.48	1.44
13	A	805	CLA	C4D-CHA	2.09	1.45	1.38
13	A	860	CLA	C3D-C2D	2.09	1.44	1.39
13	F	201	CLA	CAA-C2A	-2.09	1.50	1.54
13	B	847	CLA	CAA-CBA	2.09	1.59	1.52
13	B	834	CLA	C1B-NB	-2.09	1.35	1.37
13	B	815	CLA	O2A-CGA	2.09	1.39	1.33
13	B	836	CLA	OBD-CAD	2.09	1.26	1.22
13	A	808	CLA	CAC-C3C	-2.09	1.45	1.51
13	B	807	CLA	C4C-C3C	2.09	1.48	1.45
13	B	813	CLA	C3D-C2D	2.09	1.44	1.39
13	A	809	CLA	O2D-CED	-2.09	1.40	1.45
13	A	849	CLA	C1B-NB	-2.09	1.35	1.37
15	K	103	BCR	C8-C9	-2.09	1.41	1.45
15	J	103	BCR	C19-C18	-2.09	1.41	1.45
13	A	858	CLA	C1C-C2C	2.08	1.48	1.44
15	F	202	BCR	C34-C9	2.08	1.55	1.50
13	X	102	CLA	C1B-C2B	2.08	1.48	1.43
13	B	806	CLA	O2A-C1	-2.08	1.40	1.46
13	A	861	CLA	C4D-CHA	2.08	1.45	1.38
13	B	821	CLA	CHC-C4B	2.08	1.44	1.39
13	B	843	CLA	C1D-C2D	2.08	1.49	1.45
13	B	807	CLA	C3B-C4B	2.08	1.47	1.42
13	B	850	CLA	C1B-C2B	2.08	1.48	1.43
13	B	842	CLA	CBA-CGA	2.08	1.56	1.50
13	A	826	CLA	C4-C3	2.08	1.56	1.50
13	B	849	CLA	O2D-CGD	2.08	1.38	1.33
13	A	811	CLA	CHC-C4B	2.08	1.44	1.39
13	B	815	CLA	C3D-C2D	2.07	1.44	1.39
13	A	830	CLA	C3D-C2D	2.07	1.44	1.39
13	B	806	CLA	C1B-NB	-2.07	1.35	1.37
13	B	808	CLA	C1D-C2D	2.07	1.49	1.45
13	A	807	CLA	CHC-C4B	2.07	1.44	1.39
13	B	838	CLA	CHD-C1D	2.07	1.42	1.38
13	A	832	CLA	CHC-C1C	2.07	1.42	1.38
13	B	805	CLA	CHC-C1C	2.07	1.42	1.38
15	F	206	BCR	C12-C13	-2.07	1.41	1.45
13	A	824	CLA	OBD-CAD	2.06	1.26	1.22
13	A	861	CLA	C1B-NB	-2.06	1.35	1.37
13	A	824	CLA	O2D-CED	-2.06	1.40	1.45
13	B	839	CLA	C1D-C2D	2.06	1.49	1.45
13	A	863	CLA	MG-NC	2.06	2.11	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	F	204	CLA	C1B-C2B	2.06	1.48	1.43
21	X	101	SQD	O8-S	2.05	1.54	1.47
13	B	844	CLA	CHD-C4C	2.05	1.43	1.39
13	A	823	CLA	C1C-C2C	2.05	1.48	1.44
13	B	832	CLA	C4D-CHA	2.05	1.45	1.38
13	B	842	CLA	C4B-NB	-2.05	1.35	1.37
13	A	826	CLA	C1B-NB	-2.05	1.35	1.37
13	A	827	CLA	C4C-C3C	2.05	1.48	1.45
13	B	840	CLA	C4D-ND	-2.05	1.34	1.37
13	A	858	CLA	C1D-C2D	2.05	1.49	1.45
13	A	818	CLA	C1B-C2B	2.05	1.48	1.43
15	F	206	BCR	C11-C12	2.04	1.39	1.34
13	A	849	CLA	OBD-CAD	-2.04	1.18	1.22
13	K	101	CLA	C4D-CHA	2.04	1.45	1.38
13	B	811	CLA	CHD-C4C	2.04	1.43	1.39
13	A	829	CLA	C1D-ND	2.04	1.40	1.37
15	F	206	BCR	C20-C21	-2.04	1.37	1.43
13	K	104	CLA	C3B-C4B	2.04	1.47	1.42
13	B	820	CLA	C4B-NB	-2.04	1.35	1.37
13	A	850	CLA	CBD-CGD	-2.04	1.46	1.52
18	A	847	CL0	CHC-C4B	2.03	1.44	1.39
13	B	809	CLA	CMD-C2D	-2.03	1.46	1.50
13	A	844	CLA	C4C-C3C	-2.03	1.41	1.45
13	A	808	CLA	CBD-CGD	-2.03	1.46	1.52
13	A	827	CLA	C1C-C2C	2.03	1.48	1.44
13	B	847	CLA	MG-NC	2.03	2.11	2.06
13	A	821	CLA	C3D-C2D	2.03	1.44	1.39
13	X	102	CLA	MG-NA	2.03	2.11	2.06
13	B	821	CLA	O2A-CGA	2.02	1.39	1.33
13	A	833	CLA	C3D-C2D	2.02	1.44	1.39
13	A	854	CLA	C4D-CHA	2.02	1.45	1.38
13	B	813	CLA	C1C-NC	-2.02	1.34	1.37
13	A	819	CLA	C1C-C2C	2.02	1.48	1.44
13	A	858	CLA	O2D-CGD	2.02	1.38	1.33
13	B	808	CLA	MG-NC	2.02	2.11	2.06
13	A	855	CLA	CHC-C4B	2.02	1.43	1.39
13	B	842	CLA	C4D-CHA	2.02	1.45	1.38
13	A	817	CLA	C3B-C4B	2.02	1.47	1.42
13	B	813	CLA	CHC-C4B	2.02	1.43	1.39
13	A	830	CLA	C3B-C2B	2.01	1.48	1.41
15	F	202	BCR	C14-C13	2.01	1.38	1.35
13	A	853	CLA	CHD-C1D	2.01	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	821	CLA	C1D-C2D	2.01	1.49	1.45
13	A	824	CLA	C4D-CHA	2.01	1.45	1.38
13	K	101	CLA	C1B-C2B	2.01	1.48	1.43
13	B	816	CLA	CHC-C4B	2.01	1.43	1.39
13	A	810	CLA	C4D-CHA	2.00	1.45	1.38
13	B	842	CLA	CAA-CBA	-2.00	1.46	1.52
13	B	811	CLA	C1B-C2B	2.00	1.48	1.43
13	B	846	CLA	CHD-C1D	2.00	1.42	1.38

All (2734) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	826	CLA	O2A-C1-C2	16.73	152.61	108.64
13	A	819	CLA	C4A-NA-C1A	14.15	113.07	106.71
13	A	848	CLA	O2D-CGD-CBD	13.97	136.08	111.27
13	A	814	CLA	C4A-NA-C1A	13.83	112.92	106.71
13	K	101	CLA	C1D-ND-C4D	-13.63	96.66	106.33
13	B	837	CLA	C4A-NA-C1A	13.15	112.62	106.71
13	B	817	CLA	C4A-NA-C1A	12.81	112.47	106.71
13	K	104	CLA	C1D-ND-C4D	-12.61	97.38	106.33
13	A	821	CLA	C4A-NA-C1A	12.22	112.20	106.71
13	A	825	CLA	C4A-NA-C1A	11.98	112.09	106.71
13	A	813	CLA	C4A-NA-C1A	11.97	112.09	106.71
13	A	832	CLA	C2C-C1C-NC	11.92	121.14	109.97
13	A	810	CLA	C4A-NA-C1A	11.89	112.05	106.71
13	B	831	CLA	C2C-C1C-NC	11.84	121.06	109.97
13	A	860	CLA	C2C-C1C-NC	11.68	120.91	109.97
13	B	835	CLA	C1D-ND-C4D	-11.57	98.12	106.33
13	F	201	CLA	C2C-C1C-NC	11.46	120.70	109.97
13	B	813	CLA	O2D-CGD-CBD	11.38	131.49	111.27
13	A	831	CLA	C2C-C1C-NC	11.34	120.60	109.97
13	A	805	CLA	C2C-C1C-NC	11.32	120.58	109.97
13	A	827	CLA	C2C-C1C-NC	11.15	120.41	109.97
13	A	858	CLA	C2C-C1C-NC	11.12	120.39	109.97
13	F	204	CLA	C2C-C1C-NC	11.01	120.28	109.97
13	B	843	CLA	C2C-C1C-NC	10.97	120.25	109.97
13	A	817	CLA	C2B-C1B-NB	10.75	117.44	110.23
13	B	841	CLA	C2C-C1C-NC	10.73	120.03	109.97
13	B	816	CLA	C2C-C1C-NC	10.68	119.98	109.97
13	J	101	CLA	C2C-C1C-NC	10.67	119.97	109.97
13	B	819	CLA	C1D-ND-C4D	-10.66	98.77	106.33
13	B	809	CLA	C2C-C1C-NC	10.65	119.95	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	J	102	CLA	C2C-C1C-NC	10.56	119.87	109.97
13	B	836	CLA	C4A-NA-C1A	10.55	111.45	106.71
13	A	855	CLA	C2C-C1C-NC	10.52	119.83	109.97
13	A	848	CLA	C2C-C1C-NC	10.50	119.81	109.97
13	A	854	CLA	C2C-C1C-NC	10.50	119.81	109.97
13	A	859	CLA	C1D-ND-C4D	-10.47	98.90	106.33
13	B	815	CLA	C2C-C1C-NC	10.46	119.77	109.97
13	B	816	CLA	C1D-ND-C4D	-10.41	98.94	106.33
13	B	842	CLA	C2C-C1C-NC	10.24	119.56	109.97
13	A	849	CLA	C2C-C1C-NC	10.14	119.47	109.97
13	A	808	CLA	C2C-C1C-NC	10.11	119.45	109.97
13	A	848	CLA	C2B-C1B-NB	10.10	117.01	110.23
13	A	810	CLA	C2C-C1C-NC	10.08	119.41	109.97
13	A	851	CLA	C3C-C4C-NC	10.06	121.85	110.57
13	A	807	CLA	C2C-C1C-NC	9.92	119.26	109.97
13	A	813	CLA	C2C-C1C-NC	9.89	119.24	109.97
13	B	829	CLA	C3C-C4C-NC	9.88	121.65	110.57
13	A	861	CLA	C1D-ND-C4D	-9.82	99.36	106.33
13	B	832	CLA	C2C-C1C-NC	9.77	119.13	109.97
13	A	806	CLA	C2C-C1C-NC	9.71	119.07	109.97
15	J	104	BCR	C8-C9-C10	9.70	133.82	118.94
13	B	813	CLA	O2D-CGD-O1D	-9.67	104.94	123.84
13	B	813	CLA	C2C-C1C-NC	9.66	119.02	109.97
13	K	101	CLA	C2C-C1C-NC	9.65	119.02	109.97
13	F	204	CLA	CAC-C3C-C4C	9.64	137.32	124.81
13	J	102	CLA	C1D-ND-C4D	-9.64	99.49	106.33
13	F	201	CLA	C3C-C4C-NC	9.64	121.38	110.57
13	A	830	CLA	C2C-C1C-NC	9.60	118.97	109.97
13	A	814	CLA	C2C-C1C-NC	9.57	118.94	109.97
13	A	855	CLA	O2D-CGD-CBD	9.56	128.25	111.27
13	B	843	CLA	C3C-C4C-NC	9.55	121.28	110.57
13	A	863	CLA	C4A-NA-C1A	9.55	111.00	106.71
13	A	830	CLA	C3C-C4C-NC	9.50	121.23	110.57
13	A	860	CLA	C1D-ND-C4D	-9.50	99.59	106.33
13	B	839	CLA	C2C-C1C-NC	9.48	118.86	109.97
15	B	802	BCR	C20-C21-C22	9.44	140.79	127.31
13	A	824	CLA	C1D-ND-C4D	-9.43	99.64	106.33
13	B	829	CLA	C2C-C1C-NC	9.42	118.80	109.97
13	A	830	CLA	C2B-C1B-NB	9.39	116.53	110.23
13	B	832	CLA	C1D-ND-C4D	-9.37	99.68	106.33
13	B	820	CLA	O2D-CGD-O1D	-9.33	105.59	123.84
13	B	829	CLA	O2A-C1-C2	-9.30	84.19	108.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	850	CLA	C2C-C1C-NC	9.29	118.67	109.97
13	B	805	CLA	C2C-C1C-NC	9.29	118.67	109.97
13	B	845	CLA	C1D-ND-C4D	-9.28	99.74	106.33
13	A	856	CLA	C1D-ND-C4D	-9.26	99.76	106.33
13	A	851	CLA	C2C-C1C-NC	9.22	118.61	109.97
13	B	841	CLA	C1D-ND-C4D	-9.20	99.80	106.33
13	A	829	CLA	C2C-C1C-NC	9.17	118.56	109.97
13	B	836	CLA	C2C-C1C-NC	9.14	118.54	109.97
13	A	827	CLA	C3C-C4C-NC	9.14	120.82	110.57
13	A	813	CLA	C3C-C4C-NC	9.12	120.80	110.57
13	B	817	CLA	C2C-C1C-NC	9.11	118.51	109.97
13	B	840	CLA	C2C-C1C-NC	9.11	118.51	109.97
13	J	101	CLA	C2B-C1B-NB	9.09	116.33	110.23
13	J	101	CLA	C3C-C4C-NC	9.08	120.76	110.57
13	J	101	CLA	C1D-ND-C4D	-9.08	99.89	106.33
13	A	817	CLA	C1D-ND-C4D	-9.07	99.89	106.33
13	B	819	CLA	C2C-C1C-NC	9.05	118.45	109.97
15	B	802	BCR	C23-C22-C21	-9.05	105.06	118.94
13	A	854	CLA	C3C-C4C-NC	9.04	120.71	110.57
13	A	825	CLA	C2C-C1C-NC	9.01	118.41	109.97
13	A	807	CLA	C1D-ND-C4D	-8.98	99.95	106.33
13	B	816	CLA	C3C-C4C-NC	8.95	120.61	110.57
13	A	853	CLA	C2C-C1C-NC	8.95	118.36	109.97
13	A	858	CLA	C3C-C4C-NC	8.94	120.60	110.57
13	A	844	CLA	C1D-ND-C4D	-8.93	99.99	106.33
13	A	848	CLA	C3C-C4C-NC	8.93	120.59	110.57
13	B	818	CLA	C2C-C1C-NC	8.93	118.34	109.97
13	K	101	CLA	C3C-C4C-NC	8.93	120.58	110.57
13	A	811	CLA	C2C-C1C-NC	8.90	118.31	109.97
13	A	860	CLA	C3C-C4C-NC	8.89	120.54	110.57
13	A	812	CLA	C2C-C1C-NC	8.89	118.30	109.97
13	A	849	CLA	C3C-C4C-NC	8.83	120.48	110.57
13	A	857	CLA	C2C-C1C-NC	8.81	118.23	109.97
13	B	837	CLA	C2C-C1C-NC	8.81	118.22	109.97
13	B	834	CLA	C2C-C1C-NC	8.80	118.22	109.97
13	F	204	CLA	CBC-CAC-C3C	8.80	136.68	112.43
13	K	104	CLA	C2C-C1C-NC	8.79	118.21	109.97
13	A	861	CLA	C2C-C1C-NC	8.76	118.17	109.97
13	B	842	CLA	C2B-C1B-NB	8.73	116.08	110.23
13	A	833	CLA	C2C-C1C-NC	8.60	118.03	109.97
13	A	821	CLA	C2C-C1C-NC	8.59	118.02	109.97
13	B	841	CLA	C3C-C4C-NC	8.58	120.19	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	J	102	CLA	C3C-C4C-NC	8.56	120.17	110.57
13	B	841	CLA	C2B-C1B-NB	8.56	115.97	110.23
13	A	824	CLA	C2C-C1C-NC	8.54	117.97	109.97
13	B	833	CLA	C2C-C1C-NC	8.53	117.97	109.97
13	B	842	CLA	C1D-ND-C4D	-8.53	100.28	106.33
13	B	840	CLA	C1D-ND-C4D	-8.53	100.28	106.33
13	B	813	CLA	C3C-C4C-NC	8.53	120.14	110.57
13	A	863	CLA	C3C-C4C-NC	8.51	120.12	110.57
13	A	851	CLA	C1D-ND-C4D	-8.51	100.29	106.33
13	A	855	CLA	C4A-NA-C1A	8.51	110.53	106.71
13	B	819	CLA	O2D-CGD-CBD	8.49	126.36	111.27
13	A	863	CLA	C2C-C1C-NC	8.48	117.92	109.97
13	B	835	CLA	C2C-C1C-NC	8.46	117.89	109.97
13	A	809	CLA	C2C-C1C-NC	8.45	117.89	109.97
13	A	811	CLA	CAC-C3C-C4C	8.43	135.75	124.81
18	A	847	CL0	C2C-C1C-NC	8.40	117.84	109.97
13	A	822	CLA	C1D-ND-C4D	-8.36	100.39	106.33
13	A	855	CLA	C3C-C4C-NC	8.35	119.94	110.57
13	A	831	CLA	C3C-C4C-NC	8.34	119.93	110.57
13	A	828	CLA	C2C-C1C-NC	8.31	117.76	109.97
13	B	847	CLA	O2A-CGA-CBA	8.30	137.95	111.91
13	A	806	CLA	C3C-C4C-NC	8.29	119.87	110.57
13	B	821	CLA	C2B-C1B-NB	8.28	115.78	110.23
13	A	819	CLA	C2C-C1C-NC	8.27	117.72	109.97
13	B	818	CLA	C3C-C4C-NC	8.26	119.84	110.57
13	A	809	CLA	C3C-C4C-NC	8.26	119.83	110.57
13	A	820	CLA	C2C-C1C-NC	8.26	117.71	109.97
13	B	831	CLA	C3C-C4C-NC	8.22	119.79	110.57
13	A	818	CLA	C1D-ND-C4D	-8.21	100.50	106.33
13	B	811	CLA	C1D-ND-C4D	-8.18	100.53	106.33
13	B	819	CLA	C2B-C1B-NB	8.17	115.71	110.23
13	B	849	CLA	C2C-C1C-NC	8.17	117.63	109.97
13	A	831	CLA	C2B-C1B-NB	8.15	115.70	110.23
13	B	839	CLA	C1D-ND-C4D	-8.15	100.55	106.33
13	B	805	CLA	C3C-C4C-NC	8.13	119.69	110.57
13	B	814	CLA	C2B-C1B-NB	8.13	115.68	110.23
13	A	820	CLA	C3C-C4C-NC	8.12	119.68	110.57
13	A	832	CLA	C3C-C4C-NC	8.10	119.65	110.57
13	A	833	CLA	C1D-ND-C4D	-8.07	100.60	106.33
13	A	806	CLA	C2B-C1B-NB	8.06	115.63	110.23
13	B	836	CLA	C3C-C4C-NC	8.05	119.60	110.57
13	B	807	CLA	C2C-C1C-NC	8.04	117.50	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	859	CLA	C2C-C1C-NC	8.03	117.50	109.97
13	B	840	CLA	C4A-NA-C1A	8.03	110.31	106.71
13	B	838	CLA	C2C-C1C-NC	8.01	117.48	109.97
13	A	810	CLA	C3C-C4C-NC	8.01	119.55	110.57
13	A	821	CLA	C3C-C4C-NC	7.96	119.49	110.57
13	A	805	CLA	C3C-C4C-NC	7.93	119.47	110.57
13	A	806	CLA	C1D-ND-C4D	-7.93	100.70	106.33
13	A	856	CLA	C2C-C1C-NC	7.93	117.40	109.97
13	F	201	CLA	C2B-C1B-NB	7.90	115.53	110.23
13	B	811	CLA	C2C-C1C-NC	7.87	117.35	109.97
13	A	818	CLA	C2B-C1B-NB	7.86	115.50	110.23
13	B	845	CLA	C3C-C4C-NC	7.86	119.38	110.57
13	B	815	CLA	C3C-C4C-NC	7.84	119.37	110.57
13	B	818	CLA	C2B-C1B-NB	7.83	115.48	110.23
13	A	815	CLA	C2B-C1B-NB	7.80	115.46	110.23
13	A	850	CLA	C3C-C4C-NC	7.79	119.31	110.57
13	A	857	CLA	C2B-C1B-NB	7.79	115.45	110.23
13	B	834	CLA	C2B-C1B-NB	7.77	115.44	110.23
13	J	102	CLA	C2B-C1B-NB	7.77	115.44	110.23
13	B	833	CLA	O2D-CGD-CBD	7.77	125.08	111.27
13	B	805	CLA	C6-C5-C3	-7.77	93.09	113.45
13	A	844	CLA	C3C-C4C-NC	7.76	119.28	110.57
13	F	204	CLA	C3C-C4C-NC	7.75	119.27	110.57
13	A	833	CLA	C3C-C4C-NC	7.75	119.26	110.57
13	X	102	CLA	C2C-C1C-NC	7.75	117.23	109.97
13	A	855	CLA	O2D-CGD-O1D	-7.74	108.70	123.84
13	B	820	CLA	C2B-C1B-NB	7.72	115.41	110.23
13	B	835	CLA	C2B-C1B-NB	7.70	115.39	110.23
13	A	822	CLA	C2C-C1C-NC	7.69	117.17	109.97
13	F	204	CLA	C1D-ND-C4D	-7.68	100.88	106.33
13	B	828	CLA	C1D-ND-C4D	-7.67	100.89	106.33
13	B	820	CLA	C2C-C1C-NC	7.66	117.15	109.97
13	A	811	CLA	C2B-C1B-NB	7.64	115.36	110.23
13	A	826	CLA	C2C-C1C-NC	7.61	117.10	109.97
13	B	821	CLA	C2C-C1C-NC	7.60	117.09	109.97
13	B	848	CLA	C2C-C1C-NC	7.57	117.07	109.97
13	B	839	CLA	C3C-C4C-NC	7.57	119.06	110.57
13	A	816	CLA	C2B-C1B-NB	7.57	115.31	110.23
13	A	829	CLA	C2B-C1B-NB	7.56	115.30	110.23
13	A	829	CLA	O2D-CGD-CBD	7.56	124.70	111.27
13	A	809	CLA	C2B-C1B-NB	7.55	115.30	110.23
15	K	103	BCR	C16-C15-C14	7.55	138.94	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	817	CLA	C2C-C1C-NC	7.55	117.04	109.97
13	A	853	CLA	C1D-ND-C4D	-7.55	100.97	106.33
13	A	808	CLA	C2B-C1B-NB	7.54	115.29	110.23
13	A	854	CLA	C2B-C1B-NB	7.54	115.28	110.23
13	B	833	CLA	C1D-ND-C4D	-7.53	100.98	106.33
13	A	816	CLA	C2C-C1C-NC	7.53	117.03	109.97
13	B	808	CLA	C2C-C1C-NC	7.53	117.02	109.97
13	A	812	CLA	C1D-ND-C4D	-7.52	100.99	106.33
13	B	832	CLA	C2B-C1B-NB	7.52	115.27	110.23
13	A	861	CLA	C3C-C4C-NC	7.52	119.00	110.57
13	A	826	CLA	O2A-CGA-O1A	-7.52	104.62	123.59
13	B	842	CLA	C3C-C4C-NC	7.51	118.99	110.57
13	A	859	CLA	C3C-C4C-NC	7.50	118.98	110.57
13	F	204	CLA	C2B-C1B-NB	7.50	115.26	110.23
13	A	812	CLA	C3C-C4C-NC	7.48	118.96	110.57
13	A	830	CLA	C1D-ND-C4D	-7.47	101.03	106.33
13	B	833	CLA	C3C-C4C-NC	7.45	118.93	110.57
13	B	814	CLA	C2C-C1C-NC	7.44	116.94	109.97
13	B	837	CLA	C3C-C4C-NC	7.43	118.90	110.57
13	B	840	CLA	C3C-C4C-NC	7.42	118.90	110.57
15	B	802	BCR	C20-C19-C18	7.39	147.19	126.42
13	B	835	CLA	C3C-C4C-NC	7.39	118.86	110.57
13	B	819	CLA	C3C-C4C-NC	7.38	118.84	110.57
13	A	807	CLA	C3C-C4C-NC	7.32	118.78	110.57
13	A	818	CLA	C2C-C1C-NC	7.31	116.82	109.97
13	A	814	CLA	C3C-C4C-NC	7.30	118.75	110.57
13	A	824	CLA	C2B-C1B-NB	7.28	115.11	110.23
13	B	831	CLA	C1D-ND-C4D	-7.28	101.17	106.33
13	B	828	CLA	C2C-C1C-NC	7.27	116.79	109.97
13	A	860	CLA	C2B-C1B-NB	7.21	115.06	110.23
13	A	859	CLA	C2B-C1B-NB	7.20	115.06	110.23
13	A	825	CLA	C1D-ND-C4D	-7.20	101.22	106.33
13	B	847	CLA	C1-C2-C3	7.18	138.47	126.04
13	B	844	CLA	C2C-C1C-NC	7.18	116.70	109.97
13	B	820	CLA	CHD-C1D-ND	-7.17	117.86	124.45
13	A	826	CLA	C1-O2A-CGA	-7.17	97.64	116.44
13	F	201	CLA	C1D-ND-C4D	-7.17	101.25	106.33
13	A	817	CLA	C3C-C4C-NC	7.16	118.60	110.57
13	A	848	CLA	O2D-CGD-O1D	-7.15	109.85	123.84
13	A	844	CLA	C2C-C1C-NC	7.14	116.66	109.97
13	A	856	CLA	C3C-C4C-NC	7.14	118.58	110.57
18	A	847	CL0	C3C-C4C-NC	7.14	118.58	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	832	CLA	C3C-C4C-NC	7.13	118.57	110.57
13	K	104	CLA	C3C-C4C-NC	7.13	118.57	110.57
13	A	844	CLA	C2B-C1B-NB	7.12	115.00	110.23
13	A	829	CLA	O2D-CGD-O1D	-7.09	109.98	123.84
13	B	847	CLA	O2A-CGA-O1A	-7.08	105.72	123.59
13	B	832	CLA	O2D-CGD-CBD	7.08	123.85	111.27
13	B	840	CLA	C2B-C1B-NB	7.07	114.97	110.23
13	A	815	CLA	C2C-C1C-NC	7.07	116.59	109.97
13	A	853	CLA	C3C-C4C-NC	7.06	118.49	110.57
13	A	821	CLA	C1D-ND-C4D	-7.05	101.32	106.33
13	B	829	CLA	CBA-CAA-C2A	7.03	134.62	113.86
13	A	823	CLA	C2B-C1B-NB	7.03	114.94	110.23
13	A	811	CLA	C3B-C4B-NB	7.02	117.03	110.52
13	F	204	CLA	CHD-C4C-C3C	-7.00	114.56	124.84
13	A	830	CLA	CHD-C4C-C3C	-6.99	114.56	124.84
13	A	856	CLA	C2B-C1B-NB	6.99	114.92	110.23
13	B	834	CLA	C3C-C4C-NC	6.98	118.40	110.57
13	A	808	CLA	C1D-ND-C4D	-6.97	101.39	106.33
13	B	832	CLA	C3B-C4B-NB	6.95	116.97	110.52
13	B	846	CLA	C2C-C1C-NC	6.94	116.47	109.97
13	A	819	CLA	C3C-C4C-NC	6.93	118.34	110.57
13	B	809	CLA	C3C-C4C-NC	6.93	118.34	110.57
13	B	814	CLA	C1D-ND-C4D	-6.93	101.41	106.33
13	A	844	CLA	CHD-C4C-C3C	-6.90	114.70	124.84
13	B	830	CLA	C2C-C1C-NC	6.89	116.43	109.97
13	B	841	CLA	O2D-CGD-CBD	6.87	123.48	111.27
13	A	829	CLA	C3C-C4C-NC	6.84	118.25	110.57
13	J	101	CLA	CHD-C4C-C3C	-6.84	114.78	124.84
13	B	817	CLA	C3C-C4C-NC	6.84	118.24	110.57
13	B	849	CLA	C3C-C4C-NC	6.82	118.22	110.57
13	B	850	CLA	C2C-C1C-NC	6.76	116.31	109.97
13	B	808	CLA	C3C-C4C-NC	6.76	118.15	110.57
13	A	849	CLA	O2D-CGD-CBD	6.75	123.26	111.27
13	A	859	CLA	CHD-C4C-C3C	-6.74	114.93	124.84
13	A	853	CLA	C2B-C1B-NB	6.72	114.74	110.23
13	B	818	CLA	C1D-ND-C4D	-6.70	101.57	106.33
13	A	823	CLA	C1D-ND-C4D	-6.70	101.57	106.33
21	X	101	SQD	O6-C1-C2	6.70	118.76	108.30
13	K	101	CLA	C2D-C1D-ND	6.67	115.02	110.10
13	K	101	CLA	CHD-C4C-C3C	-6.64	115.07	124.84
13	A	825	CLA	O2D-CGD-CBD	6.60	123.00	111.27
13	B	806	CLA	C2C-C1C-NC	6.58	116.14	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	845	CLA	C4C-C3C-C2C	-6.58	97.31	106.90
13	A	805	CLA	C4A-NA-C1A	6.57	109.66	106.71
13	A	823	CLA	C2C-C1C-NC	6.54	116.10	109.97
13	A	822	CLA	C3B-C4B-NB	6.53	116.58	110.52
13	B	814	CLA	C3C-C4C-NC	6.52	117.88	110.57
13	A	807	CLA	C2B-C1B-NB	6.52	114.60	110.23
13	B	810	CLA	C2C-C1C-NC	6.49	116.05	109.97
13	A	848	CLA	CHD-C4C-C3C	-6.48	115.31	124.84
13	A	812	CLA	C2B-C1B-NB	6.48	114.58	110.23
13	B	806	CLA	C4A-NA-C1A	-6.48	103.79	106.71
13	K	101	CLA	C2B-C1B-NB	6.47	114.57	110.23
13	B	844	CLA	C1D-ND-C4D	-6.46	101.75	106.33
13	A	808	CLA	C4A-NA-C1A	6.45	109.61	106.71
13	B	820	CLA	CAC-C3C-C4C	6.45	133.18	124.81
13	A	816	CLA	C3C-C4C-NC	6.45	117.80	110.57
13	A	816	CLA	C3B-C4B-NB	6.44	116.48	110.52
13	B	815	CLA	CHD-C4C-C3C	-6.43	115.38	124.84
13	B	828	CLA	C2B-C1B-NB	6.43	114.55	110.23
13	B	847	CLA	C2C-C1C-NC	6.43	116.00	109.97
15	B	802	BCR	C21-C20-C19	6.42	143.26	123.22
13	B	850	CLA	C3C-C4C-NC	6.41	117.76	110.57
13	A	813	CLA	CHD-C1D-ND	-6.40	118.57	124.45
13	A	851	CLA	C2B-C1B-NB	6.40	114.52	110.23
13	A	828	CLA	C2B-C1B-NB	6.39	114.52	110.23
13	B	811	CLA	C2B-C1B-NB	6.36	114.49	110.23
13	K	104	CLA	C2B-C1B-NB	6.32	114.47	110.23
13	B	846	CLA	C3C-C4C-NC	6.32	117.66	110.57
13	A	851	CLA	CAC-C3C-C4C	6.32	133.01	124.81
13	J	102	CLA	CHD-C4C-C3C	-6.31	115.56	124.84
13	B	843	CLA	C2B-C1B-NB	6.31	114.46	110.23
13	B	810	CLA	C3C-C4C-NC	6.31	117.64	110.57
13	A	850	CLA	C1D-ND-C4D	-6.30	101.86	106.33
13	B	843	CLA	CHD-C4C-C3C	-6.28	115.61	124.84
13	A	857	CLA	C3C-C4C-NC	6.27	117.60	110.57
13	F	201	CLA	CHD-C4C-C3C	-6.26	115.64	124.84
13	B	820	CLA	O2D-CGD-CBD	6.24	122.36	111.27
13	A	824	CLA	C3C-C4C-NC	6.24	117.56	110.57
13	A	832	CLA	C2B-C1B-NB	6.23	114.41	110.23
13	A	858	CLA	CHD-C4C-C3C	-6.20	115.72	124.84
13	A	849	CLA	O2D-CGD-O1D	-6.18	111.75	123.84
13	A	853	CLA	CAC-C3C-C4C	6.18	132.83	124.81
15	J	104	BCR	C34-C9-C8	-6.16	108.36	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	811	CLA	C3C-C4C-NC	6.14	117.46	110.57
13	B	807	CLA	C2B-C1B-NB	6.14	114.35	110.23
13	A	833	CLA	O2D-CGD-CBD	6.10	122.11	111.27
13	B	819	CLA	C3B-C4B-NB	6.09	116.17	110.52
13	A	848	CLA	C3B-C4B-NB	6.09	116.17	110.52
13	B	843	CLA	C1D-ND-C4D	-6.09	102.01	106.33
13	B	828	CLA	C2D-C1D-ND	6.08	114.59	110.10
13	A	844	CLA	C3B-C4B-NB	6.06	116.13	110.52
13	A	830	CLA	C3B-C4B-NB	6.04	116.12	110.52
13	X	102	CLA	C3C-C4C-NC	6.04	117.35	110.57
18	A	847	CL0	C2B-C1B-NB	6.04	114.28	110.23
13	A	850	CLA	C2B-C1B-NB	6.03	114.28	110.23
13	K	104	CLA	CHD-C1D-ND	-6.03	118.92	124.45
13	B	836	CLA	O2D-CGD-O1D	-6.02	112.07	123.84
13	K	104	CLA	CMD-C2D-C1D	6.01	135.31	124.71
13	B	828	CLA	C3C-C4C-NC	6.00	117.30	110.57
13	A	823	CLA	C3C-C4C-NC	6.00	117.30	110.57
13	F	204	CLA	CMD-C2D-C1D	5.98	135.25	124.71
13	A	822	CLA	C2B-C1B-NB	5.98	114.24	110.23
13	B	816	CLA	C2D-C1D-ND	5.96	114.49	110.10
13	A	833	CLA	O2D-CGD-O1D	-5.95	112.20	123.84
13	B	818	CLA	CAC-C3C-C4C	5.95	132.53	124.81
13	B	829	CLA	CAC-C3C-C4C	5.94	132.52	124.81
13	J	102	CLA	CMD-C2D-C1D	5.93	135.17	124.71
13	B	832	CLA	O2D-CGD-O1D	-5.93	112.24	123.84
13	A	856	CLA	C2D-C1D-ND	5.93	114.47	110.10
13	B	846	CLA	C2B-C1B-NB	5.93	114.20	110.23
13	A	808	CLA	C3C-C4C-NC	5.93	117.22	110.57
13	B	849	CLA	O2D-CGD-O1D	-5.92	112.25	123.84
13	A	816	CLA	C4A-NA-C1A	5.92	109.37	106.71
13	A	805	CLA	C1D-ND-C4D	-5.91	102.13	106.33
13	A	822	CLA	C3C-C4C-NC	5.91	117.19	110.57
13	B	819	CLA	CHD-C4C-C3C	-5.89	116.19	124.84
13	B	831	CLA	C2B-C1B-NB	5.88	114.18	110.23
13	B	831	CLA	CHD-C4C-C3C	-5.88	116.20	124.84
13	A	851	CLA	C4C-C3C-C2C	-5.88	98.33	106.90
13	A	858	CLA	C2B-C1B-NB	5.88	114.17	110.23
13	A	861	CLA	O2D-CGD-CBD	5.87	121.71	111.27
13	A	827	CLA	CMD-C2D-C1D	5.85	135.03	124.71
13	B	835	CLA	O2D-CGD-CBD	5.85	121.66	111.27
13	A	817	CLA	CHD-C4C-C3C	-5.84	116.26	124.84
13	B	820	CLA	C3C-C4C-NC	5.84	117.12	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	828	CLA	CAC-C3C-C4C	5.84	132.38	124.81
13	A	807	CLA	CHD-C4C-C3C	-5.83	116.26	124.84
13	A	859	CLA	O2D-CGD-CBD	5.83	121.63	111.27
13	A	859	CLA	C2D-C1D-ND	5.83	114.40	110.10
13	X	102	CLA	C4A-NA-C1A	-5.83	104.08	106.71
13	A	819	CLA	C1D-ND-C4D	-5.80	102.22	106.33
18	A	847	CL0	C4A-NA-C1A	5.79	109.31	106.71
13	B	848	CLA	O2D-CGD-O1D	-5.78	112.54	123.84
13	A	825	CLA	C1C-C2C-C3C	-5.77	100.89	106.96
13	B	832	CLA	CHD-C1D-ND	-5.74	119.18	124.45
13	A	854	CLA	CHD-C4C-C3C	-5.73	116.41	124.84
13	A	827	CLA	CAC-C3C-C4C	5.73	132.24	124.81
13	A	828	CLA	C3C-C4C-NC	5.72	116.99	110.57
13	A	819	CLA	CED-O2D-CGD	5.72	128.88	115.94
13	A	850	CLA	C4A-NA-C1A	5.72	109.28	106.71
13	A	813	CLA	C1D-ND-C4D	-5.71	102.28	106.33
13	A	827	CLA	C3D-C2D-C1D	-5.71	98.04	105.83
13	A	861	CLA	C2B-C1B-NB	5.71	114.06	110.23
13	B	831	CLA	C1C-C2C-C3C	-5.71	100.96	106.96
13	A	822	CLA	CAC-C3C-C4C	5.70	132.20	124.81
13	B	839	CLA	C2B-C1B-NB	5.70	114.05	110.23
13	A	818	CLA	C3C-C4C-NC	5.69	116.95	110.57
13	A	807	CLA	CAC-C3C-C4C	5.69	132.19	124.81
13	A	817	CLA	C3B-C2B-C1B	-5.68	100.30	107.16
13	K	104	CLA	CHD-C4C-C3C	-5.68	116.50	124.84
13	B	845	CLA	C2C-C1C-NC	5.67	115.28	109.97
13	B	809	CLA	C1D-ND-C4D	-5.66	102.31	106.33
15	B	802	BCR	C36-C18-C19	5.66	127.00	118.08
13	A	832	CLA	C1C-C2C-C3C	-5.66	101.00	106.96
13	A	826	CLA	C3C-C4C-NC	5.66	116.92	110.57
13	A	819	CLA	C4-C3-C5	5.66	124.79	115.27
13	A	831	CLA	C1C-C2C-C3C	-5.66	101.01	106.96
13	A	863	CLA	CHD-C4C-C3C	-5.65	116.54	124.84
13	B	829	CLA	CAA-C2A-C1A	-5.65	93.48	111.97
13	B	828	CLA	CBC-CAC-C3C	-5.64	96.87	112.43
13	A	851	CLA	CHD-C4C-C3C	-5.64	116.54	124.84
13	B	817	CLA	CAC-C3C-C4C	5.64	132.13	124.81
13	B	818	CLA	CHD-C4C-C3C	-5.63	116.57	124.84
13	B	838	CLA	C2B-C1B-NB	5.62	114.00	110.23
13	F	201	CLA	C4A-NA-C1A	5.61	109.23	106.71
12	A	801	LMT	C1B-O1B-C4'	5.61	131.85	117.96
13	A	809	CLA	O2A-CGA-CBA	5.60	129.48	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	K	104	CLA	CAC-C3C-C4C	5.59	132.06	124.81
13	A	821	CLA	O2D-CGD-CBD	5.59	121.20	111.27
13	F	204	CLA	C4A-NA-C1A	5.58	109.22	106.71
13	B	820	CLA	C1-O2A-CGA	5.58	131.09	116.44
13	A	809	CLA	CAC-C3C-C4C	5.58	132.05	124.81
13	B	821	CLA	C3C-C4C-NC	5.58	116.83	110.57
13	A	827	CLA	C4A-NA-C1A	5.57	109.21	106.71
13	B	836	CLA	O2D-CGD-CBD	5.56	121.15	111.27
13	A	860	CLA	C1-C2-C3	5.56	135.66	126.04
13	A	816	CLA	CHD-C4C-C3C	-5.55	116.69	124.84
13	B	805	CLA	O2D-CGD-CBD	5.55	121.13	111.27
13	A	849	CLA	C2B-C1B-NB	5.55	113.95	110.23
13	B	807	CLA	C3C-C4C-NC	5.54	116.78	110.57
13	B	848	CLA	C3C-C4C-NC	5.54	116.78	110.57
13	A	812	CLA	C1-O2A-CGA	5.52	130.93	116.44
13	A	808	CLA	C1C-C2C-C3C	-5.52	101.15	106.96
13	B	835	CLA	C3B-C4B-NB	5.52	115.64	110.52
13	B	805	CLA	CHD-C4C-C3C	-5.52	116.73	124.84
13	A	817	CLA	C3B-C4B-NB	5.51	115.63	110.52
13	A	858	CLA	C4-C3-C2	-5.50	109.58	123.68
13	A	829	CLA	C1D-ND-C4D	-5.49	102.43	106.33
13	A	833	CLA	CAC-C3C-C4C	5.49	131.93	124.81
13	A	818	CLA	C1-O2A-CGA	5.48	130.82	116.44
13	K	104	CLA	C2D-C1D-ND	5.48	114.14	110.10
13	A	851	CLA	C1-O2A-CGA	5.47	130.81	116.44
13	A	815	CLA	C3C-C4C-NC	5.46	116.70	110.57
13	A	820	CLA	C1C-C2C-C3C	-5.46	101.22	106.96
13	A	863	CLA	CHD-C1D-ND	-5.45	119.45	124.45
13	B	845	CLA	C2B-C1B-NB	5.44	113.88	110.23
12	A	801	LMT	O1B-C4'-C3'	5.44	121.75	107.28
13	J	102	CLA	C4D-CHA-C1A	-5.42	114.65	121.25
13	B	806	CLA	C3C-C4C-NC	5.42	116.65	110.57
13	B	838	CLA	C1C-C2C-C3C	-5.42	101.26	106.96
13	A	857	CLA	C1D-ND-C4D	-5.42	102.49	106.33
13	B	821	CLA	C1D-ND-C4D	-5.42	102.49	106.33
13	A	860	CLA	CHD-C1D-ND	-5.41	119.48	124.45
13	A	821	CLA	CHD-C4C-C3C	-5.41	116.89	124.84
13	A	850	CLA	C2D-C1D-ND	5.40	114.09	110.10
13	A	815	CLA	C3B-C4B-NB	5.40	115.53	110.52
13	A	863	CLA	C1D-ND-C4D	-5.40	102.50	106.33
13	B	830	CLA	C3C-C4C-NC	5.40	116.63	110.57
13	F	201	CLA	C1C-C2C-C3C	-5.39	101.29	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	832	CLA	CAC-C3C-C4C	5.38	131.79	124.81
13	A	848	CLA	CED-O2D-CGD	-5.38	103.78	115.94
13	A	833	CLA	CHD-C4C-C3C	-5.37	116.94	124.84
13	A	856	CLA	C1-C2-C3	-5.36	116.77	126.04
13	B	845	CLA	CAC-C3C-C4C	5.36	131.76	124.81
13	A	855	CLA	C1C-C2C-C3C	-5.36	101.32	106.96
13	A	811	CLA	CHD-C4C-C3C	-5.36	116.97	124.84
13	A	855	CLA	CHD-C4C-C3C	-5.35	116.97	124.84
13	A	827	CLA	O2D-CGD-CBD	5.34	120.75	111.27
13	A	833	CLA	C2B-C1B-NB	5.33	113.81	110.23
13	K	101	CLA	CMD-C2D-C1D	5.32	134.09	124.71
13	A	809	CLA	CHD-C4C-C3C	-5.32	117.02	124.84
13	A	806	CLA	CMC-C2C-C1C	5.31	133.13	125.04
13	A	823	CLA	C3B-C4B-NB	5.31	115.44	110.52
13	B	833	CLA	CAC-C3C-C4C	5.31	131.70	124.81
13	A	833	CLA	CBC-CAC-C3C	-5.31	97.80	112.43
13	B	807	CLA	CHD-C4C-C3C	-5.31	117.04	124.84
13	B	840	CLA	CAC-C3C-C4C	5.30	131.69	124.81
13	A	831	CLA	CHD-C4C-C3C	-5.30	117.05	124.84
13	B	846	CLA	C4A-NA-C1A	-5.30	104.33	106.71
13	A	848	CLA	O1D-CGD-CBD	-5.29	113.66	124.48
13	B	832	CLA	C1C-C2C-C3C	-5.28	101.40	106.96
15	A	839	BCR	C34-C9-C10	-5.28	115.53	122.92
13	B	843	CLA	CBC-CAC-C3C	-5.27	97.90	112.43
13	A	863	CLA	C4C-C3C-C2C	-5.27	99.22	106.90
13	A	826	CLA	C2B-C1B-NB	5.27	113.76	110.23
13	A	825	CLA	C3C-C4C-NC	5.27	116.48	110.57
13	B	813	CLA	C1-C2-C3	-5.27	116.93	126.04
13	A	848	CLA	C1D-ND-C4D	-5.27	102.59	106.33
13	A	856	CLA	CHD-C1D-ND	-5.26	119.62	124.45
13	B	828	CLA	O2D-CGD-CBD	5.26	120.62	111.27
13	A	820	CLA	CHD-C4C-C3C	-5.26	117.11	124.84
13	B	845	CLA	CBC-CAC-C3C	-5.26	97.94	112.43
13	B	832	CLA	CMC-C2C-C1C	5.26	133.04	125.04
13	F	204	CLA	CAC-C3C-C2C	-5.25	118.54	127.53
13	A	807	CLA	O2D-CGD-CBD	5.24	120.58	111.27
13	A	825	CLA	CHD-C4C-C3C	-5.24	117.14	124.84
13	B	843	CLA	C4A-NA-C1A	5.23	109.06	106.71
13	A	827	CLA	C2B-C1B-NB	5.23	113.74	110.23
13	F	204	CLA	C3B-C4B-NB	5.22	115.36	110.52
13	B	817	CLA	C1D-ND-C4D	-5.22	102.62	106.33
13	A	814	CLA	C1C-C2C-C3C	-5.22	101.47	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	811	CLA	CAC-C3C-C2C	-5.22	118.61	127.53
13	A	860	CLA	C3D-C2D-C1D	-5.21	98.72	105.83
13	B	828	CLA	C7-C6-C5	5.21	127.50	113.36
13	A	818	CLA	O2A-C1-C2	-5.21	94.95	108.64
13	B	843	CLA	CAC-C3C-C4C	5.20	131.56	124.81
13	A	806	CLA	C1C-C2C-C3C	-5.20	101.49	106.96
13	A	831	CLA	C3B-C4B-NB	5.20	115.34	110.52
13	J	101	CLA	C3B-C4B-NB	5.19	115.33	110.52
13	B	833	CLA	C2B-C1B-NB	5.19	113.71	110.23
13	A	849	CLA	CHD-C4C-C3C	-5.18	117.23	124.84
13	B	817	CLA	CMC-C2C-C1C	5.17	132.92	125.04
13	K	104	CLA	C3D-C2D-C1D	-5.17	98.77	105.83
13	J	101	CLA	CBC-CAC-C3C	5.16	126.64	112.43
13	A	819	CLA	C5-C3-C2	-5.15	110.69	121.12
13	B	837	CLA	C2B-C1B-NB	5.15	113.69	110.23
13	A	830	CLA	C4C-C3C-C2C	-5.15	99.39	106.90
13	B	842	CLA	O2A-CGA-CBA	5.15	128.07	111.91
13	B	816	CLA	C3D-C2D-C1D	-5.15	98.81	105.83
13	A	853	CLA	C4A-NA-C1A	5.15	109.02	106.71
13	K	101	CLA	C3D-C4D-ND	5.14	118.56	110.24
13	B	839	CLA	CHD-C1D-ND	-5.14	119.73	124.45
13	B	821	CLA	C4-C3-C5	5.13	123.90	115.27
13	A	822	CLA	CHD-C4C-C3C	-5.13	117.30	124.84
13	J	102	CLA	O2D-CGD-CBD	5.13	120.38	111.27
13	A	816	CLA	O2D-CGD-O1D	-5.12	113.82	123.84
13	A	849	CLA	C1C-C2C-C3C	-5.12	101.58	106.96
13	A	811	CLA	C1D-ND-C4D	-5.12	102.70	106.33
13	A	856	CLA	CMD-C2D-C1D	5.12	133.73	124.71
15	A	841	BCR	C29-C28-C27	5.10	122.78	111.38
13	A	827	CLA	CHD-C4C-C3C	-5.10	117.34	124.84
13	A	816	CLA	C1D-ND-C4D	-5.10	102.71	106.33
13	B	811	CLA	O2D-CGD-CBD	5.10	120.32	111.27
13	B	841	CLA	CMD-C2D-C1D	5.09	133.69	124.71
13	B	821	CLA	CAC-C3C-C4C	5.09	131.41	124.81
13	A	856	CLA	CAC-C3C-C4C	5.09	131.41	124.81
13	A	821	CLA	CMD-C2D-C1D	5.08	133.66	124.71
13	A	813	CLA	CMD-C2D-C1D	5.08	133.66	124.71
13	A	832	CLA	CMC-C2C-C1C	5.07	132.77	125.04
13	B	833	CLA	C3B-C4B-NB	5.07	115.22	110.52
13	A	827	CLA	C1D-ND-C4D	-5.07	102.73	106.33
13	B	840	CLA	O2D-CGD-CBD	5.07	120.27	111.27
13	A	832	CLA	CHD-C4C-C3C	-5.06	117.40	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	813	CLA	CHD-C4C-C3C	-5.05	117.42	124.84
13	A	860	CLA	C1-O2A-CGA	5.05	129.69	116.44
13	A	854	CLA	C4C-C3C-C2C	-5.05	99.54	106.90
13	A	816	CLA	O2D-CGD-CBD	5.04	120.22	111.27
13	B	829	CLA	C4C-C3C-C2C	-5.04	99.56	106.90
13	A	808	CLA	CHD-C4C-C3C	-5.03	117.44	124.84
13	B	821	CLA	C4A-NA-C1A	5.03	108.97	106.71
13	A	856	CLA	CHD-C4C-C3C	-5.03	117.45	124.84
13	F	204	CLA	CMC-C2C-C1C	5.02	132.69	125.04
13	A	806	CLA	O2D-CGD-O1D	-5.02	114.02	123.84
13	B	817	CLA	C3D-C2D-C1D	-5.01	98.99	105.83
13	B	841	CLA	C1-O2A-CGA	5.00	129.57	116.44
13	A	854	CLA	CAC-C3C-C4C	5.00	131.30	124.81
13	A	860	CLA	C2D-C1D-ND	5.00	113.79	110.10
13	A	854	CLA	C1D-ND-C4D	-4.99	102.79	106.33
13	B	832	CLA	C4D-CHA-C1A	-4.99	115.17	121.25
13	B	842	CLA	C2D-C1D-ND	4.99	113.78	110.10
13	B	844	CLA	C1C-C2C-C3C	-4.98	101.72	106.96
13	B	817	CLA	CMD-C2D-C1D	4.98	133.48	124.71
13	A	820	CLA	C2B-C1B-NB	4.97	113.56	110.23
13	A	811	CLA	O2D-CGD-CBD	4.96	120.09	111.27
13	A	861	CLA	CHD-C4C-C3C	-4.96	117.55	124.84
13	B	835	CLA	CHD-C4C-C3C	-4.96	117.55	124.84
13	A	848	CLA	CAA-CBA-CGA	-4.95	98.78	113.25
13	A	814	CLA	CAC-C3C-C4C	4.95	131.24	124.81
13	B	831	CLA	O2D-CGD-O1D	-4.95	114.16	123.84
13	A	857	CLA	C3B-C4B-NB	4.95	115.11	110.52
13	A	827	CLA	C2D-C1D-ND	4.95	113.75	110.10
13	J	102	CLA	CAC-C3C-C2C	4.95	135.99	127.53
13	A	860	CLA	C1C-C2C-C3C	-4.94	101.76	106.96
13	B	805	CLA	O2A-CGA-CBA	4.94	127.42	111.91
13	F	201	CLA	C3B-C4B-NB	4.94	115.10	110.52
13	X	102	CLA	C2B-C1B-NB	4.94	113.54	110.23
13	A	851	CLA	CMD-C2D-C1D	4.93	133.41	124.71
13	B	819	CLA	CMD-C2D-C1D	4.93	133.41	124.71
13	B	813	CLA	C2B-C1B-NB	4.93	113.54	110.23
13	A	853	CLA	CHD-C4C-C3C	-4.93	117.60	124.84
13	B	832	CLA	CHD-C4C-C3C	-4.93	117.60	124.84
13	A	821	CLA	C9-C8-C10	4.92	129.10	111.29
13	A	807	CLA	O2D-CGD-O1D	-4.92	114.22	123.84
13	A	831	CLA	C3B-C2B-C1B	-4.92	101.23	107.16
13	A	825	CLA	O2D-CGD-O1D	-4.92	114.23	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	805	CLA	C1-O2A-CGA	4.91	129.33	116.44
13	A	859	CLA	C3B-C2B-C1B	-4.91	101.24	107.16
13	B	850	CLA	C3B-C4B-NB	4.91	115.07	110.52
13	B	829	CLA	C3A-C2A-C1A	-4.90	93.99	101.34
13	B	839	CLA	CHD-C4C-C3C	-4.90	117.63	124.84
13	B	838	CLA	C3C-C4C-NC	4.90	116.07	110.57
13	A	848	CLA	C4C-C3C-C2C	-4.89	99.77	106.90
13	J	101	CLA	CMD-C2D-C1D	4.89	133.33	124.71
15	F	202	BCR	C37-C22-C21	-4.89	116.08	122.92
13	J	101	CLA	C4D-CHA-C1A	-4.89	115.30	121.25
13	A	859	CLA	CHD-C1D-ND	-4.88	119.97	124.45
13	B	835	CLA	C2D-C1D-ND	4.88	113.70	110.10
13	A	853	CLA	C9-C8-C10	4.88	128.95	111.29
13	A	828	CLA	C1D-ND-C4D	-4.87	102.87	106.33
13	A	859	CLA	C4A-NA-C1A	4.86	108.89	106.71
13	K	104	CLA	O2D-CGD-CBD	4.86	119.91	111.27
13	K	101	CLA	C3D-C2D-C1D	-4.86	99.20	105.83
15	F	202	BCR	C37-C22-C23	4.86	125.73	118.08
13	J	102	CLA	C4C-C3C-C2C	-4.86	99.82	106.90
13	B	821	CLA	CHD-C1D-ND	-4.85	119.99	124.45
15	K	103	BCR	C8-C9-C10	4.85	126.39	118.94
13	A	833	CLA	C2D-C1D-ND	4.85	113.68	110.10
13	K	101	CLA	C4A-NA-C1A	4.85	108.89	106.71
13	B	821	CLA	O2D-CGD-CBD	4.84	119.87	111.27
13	K	101	CLA	CAC-C3C-C4C	4.84	131.09	124.81
15	F	203	BCR	C34-C9-C8	4.84	125.70	118.08
13	B	840	CLA	CHD-C4C-C3C	-4.84	117.73	124.84
13	B	843	CLA	O2D-CGD-O1D	-4.83	114.39	123.84
13	F	204	CLA	C1C-C2C-C3C	-4.83	101.88	106.96
13	B	819	CLA	CAC-C3C-C4C	4.83	131.08	124.81
13	B	843	CLA	C4-C3-C5	4.83	123.39	115.27
13	B	835	CLA	C1-O2A-CGA	4.81	129.07	116.44
13	B	821	CLA	C3B-C2B-C1B	-4.81	101.36	107.16
13	A	814	CLA	C11-C10-C8	-4.81	100.39	115.92
13	B	814	CLA	CHD-C4C-C3C	-4.80	117.78	124.84
13	A	827	CLA	C4C-C3C-C2C	-4.80	99.90	106.90
13	A	861	CLA	O2D-CGD-O1D	-4.80	114.46	123.84
13	A	816	CLA	CMD-C2D-C1D	4.80	133.16	124.71
13	B	842	CLA	CHD-C4C-C3C	-4.80	117.79	124.84
13	A	854	CLA	O2D-CGD-CBD	4.79	119.78	111.27
13	A	813	CLA	C4C-C3C-C2C	-4.79	99.92	106.90
13	B	829	CLA	C3B-C4B-NB	4.78	114.95	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	J	101	CLA	O2D-CGD-CBD	4.78	119.76	111.27
13	A	857	CLA	C1C-C2C-C3C	-4.78	101.94	106.96
13	B	806	CLA	O2D-CGD-O1D	-4.78	114.50	123.84
13	J	101	CLA	C3B-C2B-C1B	-4.77	101.40	107.16
13	K	104	CLA	C3B-C4B-NB	4.77	114.94	110.52
13	B	816	CLA	O2D-CGD-O1D	-4.77	114.52	123.84
13	B	841	CLA	CHD-C1D-ND	-4.76	120.08	124.45
13	A	848	CLA	C3B-C2B-C1B	-4.76	101.42	107.16
13	B	831	CLA	O2D-CGD-CBD	4.76	119.72	111.27
13	B	808	CLA	CHD-C4C-C3C	-4.76	117.85	124.84
13	B	829	CLA	C2B-C1B-NB	4.76	113.42	110.23
13	B	833	CLA	O2D-CGD-O1D	-4.75	114.55	123.84
15	B	802	BCR	C37-C22-C23	4.75	125.56	118.08
13	B	806	CLA	C4C-C3C-C2C	-4.74	99.98	106.90
13	B	819	CLA	C4D-CHA-C1A	-4.74	115.48	121.25
13	A	859	CLA	C3D-C2D-C1D	-4.73	99.38	105.83
13	A	826	CLA	C3B-C4B-NB	4.72	114.89	110.52
13	A	805	CLA	C2B-C1B-NB	4.72	113.40	110.23
13	B	841	CLA	C2D-C1D-ND	4.72	113.58	110.10
13	A	806	CLA	CHD-C4C-C3C	-4.72	117.91	124.84
13	B	841	CLA	C1C-C2C-C3C	-4.72	102.00	106.96
13	A	818	CLA	C3B-C2B-C1B	-4.72	101.47	107.16
13	B	821	CLA	CMD-C2D-C1D	4.71	133.02	124.71
13	A	859	CLA	C4C-C3C-C2C	-4.71	100.03	106.90
13	A	858	CLA	C5-C3-C2	4.71	130.65	121.12
13	B	817	CLA	C1C-C2C-C3C	-4.71	102.01	106.96
13	B	807	CLA	C1C-C2C-C3C	-4.70	102.01	106.96
13	A	858	CLA	C4C-C3C-C2C	-4.70	100.04	106.90
13	B	835	CLA	CAC-C3C-C4C	4.69	130.90	124.81
13	A	823	CLA	CAC-C3C-C4C	4.69	130.90	124.81
13	A	824	CLA	CHD-C4C-C3C	-4.69	117.95	124.84
13	A	827	CLA	C1-O2A-CGA	4.69	128.75	116.44
13	B	835	CLA	C3D-C4D-ND	4.69	117.82	110.24
13	A	807	CLA	CHD-C1D-ND	-4.69	120.15	124.45
21	X	101	SQD	C1-O5-C5	-4.69	104.49	113.69
13	A	832	CLA	C1-O2A-CGA	4.68	128.73	116.44
13	A	831	CLA	CHD-C1D-ND	-4.68	120.15	124.45
13	A	851	CLA	C3D-C2D-C1D	-4.67	99.46	105.83
13	B	828	CLA	CHD-C1D-ND	-4.66	120.17	124.45
13	A	860	CLA	C3B-C4B-NB	4.65	114.83	110.52
13	A	830	CLA	CMC-C2C-C1C	4.65	132.12	125.04
13	B	809	CLA	C1C-C2C-C3C	-4.65	102.07	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	858	CLA	O2D-CGD-CBD	4.64	119.51	111.27
13	A	812	CLA	C3D-C2D-C1D	-4.64	99.51	105.83
13	B	846	CLA	C1C-C2C-C3C	-4.63	102.08	106.96
13	A	825	CLA	C3D-C2D-C1D	-4.63	99.51	105.83
13	A	831	CLA	CAC-C3C-C4C	4.63	130.81	124.81
18	A	847	CL0	C3B-C4B-NB	4.63	114.81	110.52
13	B	818	CLA	O2D-CGD-O1D	-4.62	114.81	123.84
13	B	815	CLA	C1C-C2C-C3C	-4.62	102.10	106.96
13	A	816	CLA	CAA-CBA-CGA	-4.62	99.76	113.25
13	A	811	CLA	CHC-C1C-C2C	-4.61	113.92	126.73
13	B	816	CLA	C4C-C3C-C2C	-4.61	100.17	106.90
13	A	849	CLA	CHD-C1D-ND	-4.61	120.22	124.45
13	K	101	CLA	C4C-C3C-C2C	-4.61	100.18	106.90
13	A	827	CLA	CHD-C1D-ND	-4.61	120.22	124.45
13	B	816	CLA	CAC-C3C-C4C	4.61	130.79	124.81
13	A	863	CLA	O2A-CGA-O1A	-4.61	111.96	123.59
13	A	821	CLA	C1C-C2C-C3C	-4.60	102.12	106.96
15	F	206	BCR	C34-C9-C10	-4.60	116.47	122.92
13	A	821	CLA	C3D-C2D-C1D	-4.60	99.55	105.83
15	J	103	BCR	C37-C22-C21	-4.60	116.48	122.92
13	B	837	CLA	CAC-C3C-C4C	4.59	130.77	124.81
15	B	802	BCR	C37-C22-C21	4.59	129.36	122.92
13	J	101	CLA	CED-O2D-CGD	4.59	126.32	115.94
13	A	830	CLA	CMD-C2D-C1D	4.59	132.80	124.71
13	A	826	CLA	CHD-C4C-C3C	-4.59	118.10	124.84
13	A	833	CLA	C4C-C3C-C2C	-4.58	100.22	106.90
13	A	818	CLA	C4A-NA-C1A	-4.58	104.65	106.71
13	A	858	CLA	C1D-ND-C4D	-4.58	103.08	106.33
13	A	805	CLA	CHD-C4C-C3C	-4.58	118.11	124.84
13	A	806	CLA	CAC-C3C-C4C	4.58	130.75	124.81
15	J	104	BCR	C37-C22-C21	-4.58	116.51	122.92
13	A	810	CLA	CMC-C2C-C1C	4.57	132.01	125.04
13	B	845	CLA	CHD-C4C-C3C	-4.57	118.12	124.84
13	A	810	CLA	CAC-C3C-C4C	4.57	130.74	124.81
13	A	808	CLA	C3B-C4B-NB	4.57	114.75	110.52
13	B	848	CLA	C2B-C1B-NB	4.57	113.30	110.23
13	B	850	CLA	CMD-C2D-C1D	4.56	132.76	124.71
13	A	825	CLA	C11-C10-C8	4.56	130.67	115.92
13	A	833	CLA	O2A-CGA-CBA	4.56	126.23	111.91
13	A	813	CLA	CHD-C4C-C3C	-4.56	118.14	124.84
13	B	843	CLA	CMC-C2C-C1C	4.56	131.98	125.04
15	M	101	BCR	C37-C22-C23	4.56	125.26	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	F	204	CLA	CHD-C1D-ND	-4.56	120.27	124.45
13	A	814	CLA	O2D-CGD-CBD	4.55	119.36	111.27
13	B	818	CLA	C4C-C3C-C2C	-4.54	100.28	106.90
13	A	805	CLA	CHD-C1D-ND	-4.54	120.28	124.45
15	K	103	BCR	C12-C13-C14	4.54	125.90	118.94
13	B	837	CLA	CMD-C2D-C1D	4.52	132.67	124.71
13	B	835	CLA	C3B-C2B-C1B	-4.51	101.71	107.16
13	A	813	CLA	C1C-C2C-C3C	-4.51	102.21	106.96
13	B	817	CLA	CHD-C4C-C3C	-4.51	118.22	124.84
15	A	862	BCR	C34-C9-C8	4.50	125.17	118.08
13	A	856	CLA	C4C-C3C-C2C	-4.50	100.34	106.90
13	B	818	CLA	C3B-C2B-C1B	-4.50	101.73	107.16
13	B	829	CLA	CHD-C1D-ND	-4.50	120.32	124.45
13	B	840	CLA	C3B-C4B-NB	4.50	114.69	110.52
13	B	817	CLA	C2D-C1D-ND	4.49	113.42	110.10
13	A	820	CLA	CAC-C3C-C4C	4.49	130.64	124.81
13	A	854	CLA	C3B-C2B-C1B	-4.49	101.74	107.16
13	B	841	CLA	CHD-C4C-C3C	-4.49	118.25	124.84
13	A	805	CLA	C3B-C4B-NB	4.49	114.68	110.52
13	B	820	CLA	C3B-C4B-NB	4.48	114.67	110.52
13	A	848	CLA	CBC-CAC-C3C	-4.48	100.08	112.43
13	A	805	CLA	CAC-C3C-C4C	4.48	130.62	124.81
13	B	843	CLA	C4C-C3C-C2C	-4.47	100.38	106.90
13	A	805	CLA	C1C-C2C-C3C	-4.47	102.26	106.96
13	B	842	CLA	CAC-C3C-C4C	4.46	130.60	124.81
13	J	101	CLA	C1C-C2C-C3C	-4.46	102.27	106.96
13	B	829	CLA	CHD-C4C-C3C	-4.46	118.29	124.84
13	A	814	CLA	C4-C3-C5	4.45	122.76	115.27
13	A	819	CLA	CHD-C1D-ND	-4.45	120.36	124.45
13	A	806	CLA	C3D-C4D-ND	4.45	117.44	110.24
13	K	104	CLA	C3D-C4D-ND	4.45	117.44	110.24
13	A	812	CLA	C1C-C2C-C3C	-4.45	102.28	106.96
13	B	813	CLA	C4C-C3C-C2C	-4.45	100.42	106.90
13	A	824	CLA	C1C-C2C-C3C	-4.45	102.28	106.96
13	B	811	CLA	C4C-C3C-C2C	-4.44	100.42	106.90
13	A	859	CLA	CAC-C3C-C4C	4.44	130.57	124.81
13	A	816	CLA	C3A-C2A-C1A	4.44	107.99	101.34
13	B	842	CLA	C4C-C3C-C2C	-4.44	100.43	106.90
13	A	861	CLA	CMD-C2D-C1D	4.43	132.53	124.71
13	B	809	CLA	CHD-C4C-C3C	-4.43	118.33	124.84
13	B	840	CLA	C3D-C4D-ND	4.43	117.40	110.24
13	B	816	CLA	C2B-C1B-NB	4.43	113.20	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	840	CLA	O2D-CGD-O1D	-4.43	115.19	123.84
13	A	859	CLA	O2D-CGD-O1D	-4.42	115.19	123.84
13	A	814	CLA	O2D-CGD-O1D	-4.42	115.20	123.84
13	A	827	CLA	O2D-CGD-O1D	-4.42	115.20	123.84
13	A	808	CLA	O2D-CGD-CBD	4.42	119.11	111.27
18	A	847	CL0	C1C-C2C-C3C	-4.41	102.32	106.96
13	B	841	CLA	CAC-C3C-C4C	4.40	130.53	124.81
15	F	203	BCR	C34-C9-C10	-4.40	116.75	122.92
13	A	860	CLA	CHD-C4C-C3C	-4.40	118.37	124.84
13	A	833	CLA	C1-C2-C3	4.40	133.66	126.04
13	A	818	CLA	CHD-C4C-C3C	-4.40	118.37	124.84
13	A	811	CLA	C1C-C2C-C3C	-4.40	102.33	106.96
13	A	857	CLA	CMD-C2D-C1D	4.40	132.46	124.71
13	A	849	CLA	C4C-C3C-C2C	-4.39	100.50	106.90
13	A	863	CLA	CAC-C3C-C4C	4.38	130.50	124.81
13	A	851	CLA	C4A-NA-C1A	4.38	108.68	106.71
13	A	829	CLA	CAC-C3C-C4C	4.38	130.49	124.81
13	A	810	CLA	CHD-C4C-C3C	-4.37	118.41	124.84
13	B	820	CLA	C4C-C3C-C2C	-4.37	100.53	106.90
13	A	832	CLA	C3D-C2D-C1D	-4.37	99.87	105.83
13	B	816	CLA	CMD-C2D-C1D	4.36	132.40	124.71
13	B	817	CLA	CHD-C1D-ND	-4.36	120.45	124.45
13	B	837	CLA	CHD-C1D-ND	-4.36	120.45	124.45
13	B	815	CLA	C2B-C1B-NB	4.36	113.15	110.23
13	B	814	CLA	C4C-C3C-C2C	-4.35	100.55	106.90
13	A	830	CLA	C3B-C2B-C1B	-4.35	101.91	107.16
13	B	842	CLA	O2D-CGD-CBD	4.35	119.00	111.27
13	B	839	CLA	CAC-C3C-C4C	4.35	130.45	124.81
13	A	810	CLA	C1C-C2C-C3C	-4.35	102.39	106.96
13	A	806	CLA	C3B-C2B-C1B	-4.34	101.92	107.16
13	A	850	CLA	CHD-C4C-C3C	-4.34	118.46	124.84
13	A	857	CLA	C3B-C2B-C1B	-4.33	101.94	107.16
13	A	815	CLA	CHD-C4C-C3C	-4.33	118.48	124.84
13	A	858	CLA	CAC-C3C-C4C	4.32	130.42	124.81
13	B	834	CLA	C3B-C4B-NB	4.32	114.53	110.52
13	B	848	CLA	C1C-C2C-C3C	-4.32	102.42	106.96
13	B	807	CLA	C3B-C4B-NB	4.32	114.52	110.52
13	A	819	CLA	C3D-C2D-C1D	-4.32	99.94	105.83
13	B	818	CLA	O2D-CGD-CBD	4.32	118.94	111.27
13	B	807	CLA	CBC-CAC-C3C	4.31	124.32	112.43
13	A	850	CLA	C4C-C3C-C2C	-4.31	100.61	106.90
13	B	815	CLA	O2D-CGD-CBD	4.31	118.92	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	X	101	SQD	C1-C2-C3	-4.30	101.03	110.00
13	B	839	CLA	C1C-C2C-C3C	-4.30	102.43	106.96
13	B	831	CLA	C3B-C2B-C1B	-4.30	101.97	107.16
13	A	856	CLA	C3D-C2D-C1D	-4.30	99.96	105.83
13	B	807	CLA	CMD-C2D-C1D	4.30	132.28	124.71
13	B	819	CLA	C3D-C4D-ND	4.29	117.18	110.24
13	B	833	CLA	CMD-C2D-C1D	4.29	132.27	124.71
13	A	810	CLA	C9-C8-C10	4.29	126.82	111.29
13	B	842	CLA	O2A-C1-C2	4.29	119.90	108.64
13	B	815	CLA	CMD-C2D-C1D	4.29	132.26	124.71
13	B	819	CLA	C3B-C2B-C1B	-4.28	101.99	107.16
13	B	846	CLA	CHD-C4C-C3C	-4.28	118.55	124.84
13	B	828	CLA	CAC-C3C-C4C	4.27	130.35	124.81
13	B	833	CLA	CMC-C2C-C1C	4.27	131.54	125.04
13	A	814	CLA	CHD-C4C-C3C	-4.26	118.57	124.84
13	A	806	CLA	C3D-C2D-C1D	-4.26	100.02	105.83
13	A	831	CLA	CMC-C2C-C1C	4.26	131.53	125.04
13	J	102	CLA	CHC-C1C-C2C	-4.26	114.90	126.73
13	B	828	CLA	C3B-C2B-C1B	-4.26	102.02	107.16
13	A	824	CLA	C3B-C2B-C1B	-4.26	102.02	107.16
13	A	824	CLA	C1-C2-C3	-4.25	118.69	126.04
13	J	101	CLA	C4C-C3C-C2C	-4.25	100.70	106.90
13	B	835	CLA	CHD-C1D-ND	-4.24	120.55	124.45
13	B	828	CLA	C3B-C4B-NB	4.24	114.45	110.52
13	B	818	CLA	C3B-C4B-NB	4.24	114.45	110.52
13	A	831	CLA	O2D-CGD-CBD	4.24	118.81	111.27
13	A	827	CLA	CBC-CAC-C3C	-4.24	100.75	112.43
13	A	814	CLA	C3B-C2B-C1B	-4.23	102.06	107.16
13	A	805	CLA	C4C-C3C-C2C	-4.23	100.73	106.90
13	B	833	CLA	C3D-C2D-C1D	-4.23	100.06	105.83
13	A	822	CLA	C3B-C2B-C1B	-4.23	102.06	107.16
13	A	811	CLA	C3C-C4C-NC	4.22	115.31	110.57
13	A	808	CLA	CMD-C2D-C1D	4.22	132.15	124.71
13	K	104	CLA	O2D-CGD-O1D	-4.22	115.59	123.84
13	A	809	CLA	C3B-C2B-C1B	-4.22	102.07	107.16
13	A	853	CLA	C3B-C2B-C1B	-4.22	102.07	107.16
15	K	103	BCR	C34-C9-C10	-4.21	117.02	122.92
13	B	847	CLA	C3C-C4C-NC	4.21	115.29	110.57
13	A	844	CLA	O2D-CGD-O1D	-4.21	115.61	123.84
13	A	809	CLA	C1D-ND-C4D	-4.20	103.35	106.33
13	A	808	CLA	CAA-C2A-C3A	4.20	124.28	112.78
13	B	844	CLA	C3C-C4C-NC	4.20	115.28	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	859	CLA	CMD-C2D-C1D	4.20	132.11	124.71
13	B	829	CLA	C9-C8-C10	4.20	126.49	111.29
13	B	808	CLA	CMD-C2D-C1D	4.19	132.10	124.71
13	A	857	CLA	C1-O2A-CGA	4.19	127.44	116.44
13	B	821	CLA	C3B-C4B-NB	4.19	114.40	110.52
13	A	824	CLA	C3D-C4D-ND	4.18	117.00	110.24
13	A	806	CLA	C3B-C4B-NB	4.17	114.39	110.52
13	A	809	CLA	CMC-C2C-C1C	4.17	131.39	125.04
13	A	826	CLA	O2A-CGA-CBA	4.17	124.99	111.91
15	B	802	BCR	C19-C18-C17	-4.17	112.55	118.94
13	A	812	CLA	CMC-C2C-C1C	4.17	131.38	125.04
13	B	845	CLA	C3B-C4B-NB	4.16	114.38	110.52
13	B	845	CLA	C3D-C4D-ND	4.16	116.96	110.24
13	B	843	CLA	C3D-C2D-C1D	-4.16	100.16	105.83
13	X	102	CLA	C1C-C2C-C3C	-4.15	102.59	106.96
13	A	844	CLA	C3D-C4D-ND	4.15	116.95	110.24
13	F	201	CLA	C3D-C2D-C1D	-4.14	100.18	105.83
13	A	807	CLA	C6-C7-C8	-4.14	102.53	115.92
13	A	811	CLA	C3D-C2D-C1D	-4.14	100.18	105.83
13	A	813	CLA	O2D-CGD-CBD	4.14	118.62	111.27
13	A	807	CLA	C1C-C2C-C3C	-4.13	102.61	106.96
13	B	811	CLA	CMD-C2D-C1D	4.13	132.00	124.71
13	A	833	CLA	CHD-C1D-ND	-4.13	120.66	124.45
13	K	101	CLA	C3B-C4B-NB	4.13	114.35	110.52
13	A	821	CLA	C3B-C2B-C1B	-4.13	102.17	107.16
13	A	856	CLA	C4-C3-C5	4.12	122.21	115.27
13	A	863	CLA	C2B-C1B-NB	4.12	113.00	110.23
15	A	842	BCR	C37-C22-C23	4.12	124.57	118.08
13	A	816	CLA	C3B-C2B-C1B	-4.12	102.19	107.16
13	A	818	CLA	CHD-C1D-ND	-4.12	120.67	124.45
13	B	832	CLA	C3B-C2B-C1B	-4.12	102.19	107.16
15	F	202	BCR	C36-C18-C17	-4.12	117.15	122.92
13	X	102	CLA	CHD-C4C-C3C	-4.12	118.79	124.84
13	B	813	CLA	CHD-C1D-ND	-4.12	120.67	124.45
13	A	858	CLA	C3D-C2D-C1D	-4.11	100.22	105.83
13	B	841	CLA	C3D-C4D-ND	4.11	116.89	110.24
13	A	807	CLA	C3B-C2B-C1B	-4.11	102.20	107.16
13	B	841	CLA	C4A-NA-C1A	4.11	108.55	106.71
13	A	829	CLA	C3B-C2B-C1B	-4.10	102.21	107.16
13	B	805	CLA	C9-C8-C10	4.10	126.15	111.29
13	B	805	CLA	C3B-C4B-NB	4.10	114.32	110.52
13	A	811	CLA	O2D-CGD-O1D	-4.10	115.82	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	814	CLA	C3B-C2B-C1B	-4.10	102.22	107.16
13	A	863	CLA	O2A-CGA-CBA	4.10	124.76	111.91
13	B	848	CLA	O2D-CGD-CBD	4.09	118.54	111.27
13	B	819	CLA	C2D-C1D-ND	4.09	113.12	110.10
13	A	808	CLA	CMC-C2C-C1C	4.09	131.26	125.04
13	B	838	CLA	C1D-ND-C4D	-4.08	103.43	106.33
13	K	101	CLA	C4-C3-C5	4.08	122.14	115.27
13	B	813	CLA	CED-O2D-CGD	-4.08	106.70	115.94
13	A	823	CLA	C3B-C2B-C1B	-4.08	102.23	107.16
13	B	842	CLA	CMD-C2D-C1D	4.08	131.90	124.71
13	A	823	CLA	CHD-C4C-C3C	-4.08	118.85	124.84
13	J	102	CLA	C3D-C2D-C1D	-4.08	100.27	105.83
13	A	819	CLA	CHD-C4C-C3C	-4.07	118.86	124.84
13	A	825	CLA	CHC-C1C-C2C	-4.07	115.42	126.73
13	A	820	CLA	O2A-C1-C2	-4.07	97.94	108.64
13	B	834	CLA	CHD-C4C-C3C	-4.07	118.86	124.84
13	A	848	CLA	C4-C3-C5	4.07	122.11	115.27
13	A	817	CLA	CMD-C2D-C1D	4.07	131.88	124.71
13	A	811	CLA	CMD-C2D-C1D	4.06	131.88	124.71
13	B	819	CLA	C3D-C2D-C1D	-4.06	100.29	105.83
13	B	839	CLA	C3B-C4B-NB	4.06	114.28	110.52
13	B	837	CLA	CHD-C4C-C3C	-4.05	118.88	124.84
13	B	828	CLA	C6-C7-C8	-4.05	102.82	115.92
13	A	817	CLA	C3D-C4D-ND	4.05	116.79	110.24
13	A	831	CLA	C1-O2A-CGA	4.04	127.05	116.44
13	A	824	CLA	CMD-C2D-C1D	4.04	131.84	124.71
13	B	836	CLA	CHD-C4C-C3C	-4.04	118.90	124.84
13	B	847	CLA	CMC-C2C-C1C	4.04	131.19	125.04
13	A	859	CLA	C3B-C4B-NB	4.04	114.26	110.52
13	A	860	CLA	CMD-C2D-C1D	4.04	131.83	124.71
13	A	863	CLA	O2D-CGD-CBD	4.03	118.44	111.27
13	A	816	CLA	CHD-C1D-ND	-4.03	120.75	124.45
13	A	815	CLA	C3B-C2B-C1B	-4.03	102.29	107.16
13	A	829	CLA	C1C-C2C-C3C	-4.03	102.72	106.96
13	A	861	CLA	C2D-C1D-ND	4.03	113.07	110.10
13	F	201	CLA	C4C-C3C-C2C	-4.03	101.03	106.90
13	B	829	CLA	C1-C2-C3	-4.03	119.08	126.04
13	B	850	CLA	C4C-C3C-C2C	-4.02	101.03	106.90
13	B	842	CLA	C3D-C2D-C1D	-4.02	100.34	105.83
13	B	839	CLA	C3B-C2B-C1B	-4.02	102.31	107.16
13	A	819	CLA	C6-C5-C3	4.02	123.99	113.45
13	A	808	CLA	CAA-CBA-CGA	-4.02	101.52	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	857	CLA	C3D-C2D-C1D	-4.01	100.35	105.83
13	A	825	CLA	C1D-CHD-C4C	-4.01	117.40	126.06
13	A	807	CLA	C3B-C4B-NB	4.01	114.24	110.52
13	A	826	CLA	C1D-ND-C4D	-4.01	103.49	106.33
13	A	861	CLA	C3B-C2B-C1B	-4.01	102.32	107.16
13	A	823	CLA	C11-C10-C8	-4.01	102.96	115.92
13	B	839	CLA	CMD-C2D-C1D	4.01	131.78	124.71
13	B	814	CLA	CAC-C3C-C4C	4.01	130.01	124.81
13	B	828	CLA	O2A-CGA-CBA	4.00	124.47	111.91
13	B	815	CLA	C4C-C3C-C2C	-4.00	101.07	106.90
13	A	859	CLA	C1-O2A-CGA	4.00	126.94	116.44
13	B	842	CLA	C1C-C2C-C3C	-4.00	102.76	106.96
13	A	812	CLA	CHD-C4C-C3C	-3.99	118.97	124.84
13	A	806	CLA	C6-C7-C8	-3.99	103.01	115.92
13	B	813	CLA	C1C-C2C-C3C	-3.99	102.76	106.96
13	A	832	CLA	C1D-ND-C4D	-3.99	103.50	106.33
13	B	846	CLA	C1D-ND-C4D	-3.99	103.50	106.33
13	B	805	CLA	O2A-CGA-O1A	-3.99	113.52	123.59
13	B	828	CLA	C4C-C3C-C2C	-3.99	101.08	106.90
13	A	849	CLA	C3D-C2D-C1D	-3.99	100.39	105.83
13	B	814	CLA	C3D-C2D-C1D	-3.99	100.39	105.83
13	B	843	CLA	C1C-C2C-C3C	-3.99	102.77	106.96
15	K	103	BCR	C35-C13-C14	-3.98	117.34	122.92
13	B	814	CLA	CHD-C1D-ND	-3.98	120.80	124.45
13	B	816	CLA	CHD-C1D-ND	-3.98	120.80	124.45
13	A	831	CLA	C4A-NA-C1A	-3.98	104.92	106.71
13	B	820	CLA	C1D-ND-C4D	-3.98	103.51	106.33
13	B	811	CLA	C3B-C2B-C1B	-3.98	102.36	107.16
13	B	832	CLA	C1-O2A-CGA	3.98	126.88	116.44
15	A	842	BCR	C34-C9-C10	-3.98	117.35	122.92
13	A	820	CLA	C1-O2A-CGA	-3.98	106.01	116.44
13	B	837	CLA	CMC-C2C-C1C	3.97	131.09	125.04
13	A	817	CLA	C4D-CHA-C1A	-3.97	116.41	121.25
13	A	820	CLA	C5-C3-C2	-3.97	113.08	121.12
13	B	819	CLA	C4C-C3C-C2C	-3.97	101.11	106.90
13	A	826	CLA	C4A-NA-C1A	3.97	108.49	106.71
13	A	826	CLA	O2D-CGD-CBD	3.97	118.32	111.27
13	B	837	CLA	C3D-C2D-C1D	-3.97	100.42	105.83
13	B	839	CLA	C3D-C2D-C1D	-3.96	100.42	105.83
13	A	831	CLA	C3D-C2D-C1D	-3.96	100.42	105.83
13	J	102	CLA	C3B-C4B-NB	3.96	114.19	110.52
13	A	824	CLA	CHD-C1D-ND	-3.96	120.82	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	829	CLA	O2D-CGD-CBD	3.96	118.30	111.27
18	A	847	CL0	C3B-C2B-C1B	-3.95	102.39	107.16
13	A	855	CLA	C1D-ND-C4D	-3.95	103.53	106.33
13	A	827	CLA	CHC-C1C-C2C	-3.95	115.75	126.73
13	A	807	CLA	C4C-C3C-C2C	-3.95	101.14	106.90
13	A	824	CLA	CMC-C2C-C1C	3.95	131.06	125.04
13	A	817	CLA	O2D-CGD-CBD	3.95	118.28	111.27
13	B	817	CLA	C3B-C2B-C1B	-3.95	102.40	107.16
13	B	837	CLA	C4C-C3C-C2C	-3.94	101.15	106.90
13	B	849	CLA	C1C-C2C-C3C	-3.94	102.81	106.96
15	B	802	BCR	C34-C9-C10	-3.94	117.40	122.92
13	B	811	CLA	CAC-C3C-C4C	3.94	129.92	124.81
13	F	204	CLA	C3B-C2B-C1B	-3.94	102.41	107.16
13	B	835	CLA	C4-C3-C5	3.94	121.89	115.27
13	A	832	CLA	CBC-CAC-C3C	3.93	123.27	112.43
18	A	847	CL0	O2D-CGD-CBD	3.93	118.26	111.27
13	A	808	CLA	C3D-C2D-C1D	-3.93	100.46	105.83
13	B	845	CLA	CMD-C2D-C1D	3.93	131.64	124.71
13	A	823	CLA	C2D-C1D-ND	3.93	113.00	110.10
13	A	811	CLA	C1D-CHD-C4C	-3.93	117.58	126.06
13	B	834	CLA	O2D-CGD-CBD	3.93	118.25	111.27
13	A	810	CLA	C4C-C3C-C2C	-3.93	101.17	106.90
13	A	810	CLA	O2A-C1-C2	-3.93	98.32	108.64
13	A	816	CLA	C1C-C2C-C3C	-3.93	102.83	106.96
13	A	826	CLA	CHD-C1D-ND	-3.92	120.85	124.45
13	A	820	CLA	C4-C3-C5	3.92	121.87	115.27
13	A	853	CLA	C3D-C4D-ND	3.92	116.58	110.24
13	B	816	CLA	C3D-C4D-ND	3.92	116.58	110.24
13	B	833	CLA	CHD-C4C-C3C	-3.91	119.09	124.84
13	B	828	CLA	O2D-CGD-O1D	-3.91	116.19	123.84
13	B	830	CLA	O2D-CGD-CBD	3.91	118.22	111.27
13	B	843	CLA	CMD-C2D-C1D	3.91	131.61	124.71
13	A	826	CLA	C4-C3-C5	-3.91	108.69	115.27
13	B	833	CLA	C9-C8-C10	3.91	125.45	111.29
13	B	816	CLA	C9-C8-C10	3.90	125.42	111.29
13	A	809	CLA	C3B-C4B-NB	3.90	114.13	110.52
13	J	101	CLA	C3D-C2D-C1D	-3.90	100.51	105.83
13	B	849	CLA	O2D-CGD-CBD	3.89	118.19	111.27
13	A	819	CLA	C4C-C3C-C2C	-3.89	101.22	106.90
13	B	837	CLA	C1-O2A-CGA	3.89	126.64	116.44
13	B	842	CLA	C3B-C4B-NB	3.89	114.12	110.52
13	X	102	CLA	C3B-C2B-C1B	-3.88	102.47	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	853	CLA	O2D-CGD-CBD	3.88	118.17	111.27
13	F	204	CLA	C3D-C2D-C1D	-3.88	100.53	105.83
13	A	819	CLA	CMD-C2D-C1D	3.88	131.55	124.71
13	K	101	CLA	C1C-C2C-C3C	-3.88	102.88	106.96
13	B	819	CLA	O2D-CGD-O1D	-3.87	116.26	123.84
13	A	819	CLA	C3B-C2B-C1B	-3.87	102.48	107.16
13	A	819	CLA	O1D-CGD-CBD	-3.87	116.56	124.48
13	B	841	CLA	C4C-C3C-C2C	-3.87	101.25	106.90
13	B	841	CLA	C3B-C2B-C1B	-3.87	102.49	107.16
13	A	822	CLA	O2D-CGD-CBD	3.87	118.14	111.27
13	B	849	CLA	C4C-C3C-C2C	-3.87	101.26	106.90
13	A	809	CLA	CAA-C2A-C3A	-3.87	102.19	112.78
13	K	104	CLA	C4C-C3C-C2C	-3.86	101.27	106.90
13	B	813	CLA	C3D-C2D-C1D	-3.86	100.56	105.83
13	A	863	CLA	C3D-C2D-C1D	-3.86	100.57	105.83
13	A	827	CLA	O2A-C1-C2	3.86	118.77	108.64
13	B	809	CLA	CMD-C2D-C1D	3.86	131.51	124.71
13	K	104	CLA	C3B-C2B-C1B	-3.85	102.51	107.16
13	A	828	CLA	O2D-CGD-O1D	-3.85	116.30	123.84
13	B	842	CLA	CHD-C1D-ND	-3.85	120.91	124.45
13	B	841	CLA	C3D-C2D-C1D	-3.85	100.58	105.83
13	A	822	CLA	CMD-C2D-C1D	3.85	131.49	124.71
13	A	812	CLA	C3B-C2B-C1B	-3.85	102.52	107.16
13	B	841	CLA	C9-C8-C10	3.84	125.20	111.29
13	A	820	CLA	O2D-CGD-O1D	-3.84	116.33	123.84
13	B	841	CLA	CBC-CAC-C3C	-3.84	101.85	112.43
13	A	860	CLA	C3B-C2B-C1B	-3.83	102.54	107.16
15	A	862	BCR	C37-C22-C21	-3.83	117.56	122.92
13	A	828	CLA	C3B-C4B-NB	3.83	114.07	110.52
13	K	101	CLA	CHD-C1D-ND	-3.82	120.94	124.45
13	A	860	CLA	C4C-C3C-C2C	-3.82	101.32	106.90
13	A	813	CLA	C3B-C2B-C1B	-3.82	102.55	107.16
13	A	812	CLA	C3B-C4B-NB	3.82	114.06	110.52
13	A	859	CLA	C1C-C2C-C3C	-3.82	102.94	106.96
13	B	834	CLA	C3B-C2B-C1B	-3.82	102.55	107.16
13	B	829	CLA	C1D-ND-C4D	-3.81	103.63	106.33
13	A	817	CLA	C3D-C2D-C1D	-3.80	100.64	105.83
13	A	831	CLA	O2D-CGD-O1D	-3.80	116.40	123.84
13	B	835	CLA	CMC-C2C-C1C	3.80	130.82	125.04
13	B	835	CLA	C3D-C2D-C1D	-3.80	100.65	105.83
13	A	856	CLA	C3B-C4B-NB	3.80	114.04	110.52
13	B	832	CLA	CMD-C2D-C1D	3.79	131.40	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	859	CLA	C3D-C4D-ND	3.79	116.37	110.24
13	B	835	CLA	CMD-C2D-C1D	3.79	131.39	124.71
13	A	813	CLA	C2B-C1B-NB	3.79	112.77	110.23
13	B	811	CLA	C3D-C2D-C1D	-3.79	100.66	105.83
13	B	843	CLA	O2D-CGD-CBD	3.78	117.99	111.27
13	B	841	CLA	O2D-CGD-O1D	-3.78	116.45	123.84
16	A	843	LHG	O6-P-O5	-3.78	94.31	109.07
13	B	815	CLA	O2A-CGA-O1A	-3.78	114.06	123.59
13	A	820	CLA	C3B-C2B-C1B	-3.78	102.60	107.16
13	A	824	CLA	C9-C8-C10	3.77	124.96	111.29
13	K	104	CLA	CHC-C1C-C2C	-3.77	116.26	126.73
13	B	817	CLA	C2B-C1B-NB	3.77	112.76	110.23
13	A	811	CLA	CED-O2D-CGD	3.77	124.47	115.94
13	B	839	CLA	C3D-C4D-ND	3.77	116.33	110.24
13	B	805	CLA	C1D-ND-C4D	-3.76	103.66	106.33
13	B	816	CLA	C3B-C4B-NB	3.76	114.00	110.52
13	B	815	CLA	CHC-C1C-C2C	-3.76	116.28	126.73
13	B	840	CLA	C4C-C3C-C2C	-3.76	101.42	106.90
13	B	810	CLA	O2D-CGD-CBD	3.76	117.95	111.27
13	B	809	CLA	C4C-C3C-C2C	-3.76	101.42	106.90
13	A	823	CLA	CHD-C1D-ND	-3.76	121.00	124.45
13	B	810	CLA	C4C-C3C-C2C	-3.75	101.43	106.90
13	A	821	CLA	C6-C7-C8	-3.75	103.79	115.92
13	B	818	CLA	C3D-C2D-C1D	-3.75	100.71	105.83
13	A	849	CLA	CAC-C3C-C4C	3.75	129.68	124.81
13	A	850	CLA	C3D-C2D-C1D	-3.75	100.71	105.83
13	A	823	CLA	O2D-CGD-O1D	-3.75	116.51	123.84
13	B	810	CLA	C2B-C1B-NB	3.75	112.75	110.23
13	A	848	CLA	C1-O2A-CGA	3.75	126.28	116.44
13	B	830	CLA	C1-C2-C3	-3.74	119.57	126.04
13	A	812	CLA	C2D-C1D-ND	3.74	112.86	110.10
13	B	843	CLA	C3B-C2B-C1B	-3.74	102.64	107.16
13	B	840	CLA	C1C-C2C-C3C	-3.74	103.02	106.96
13	B	838	CLA	C3B-C4B-NB	3.74	113.98	110.52
13	B	834	CLA	CMD-C2D-C1D	3.74	131.30	124.71
13	A	807	CLA	C3D-C2D-C1D	-3.74	100.73	105.83
16	A	843	LHG	O4-P-O6	3.73	125.08	107.75
15	A	840	BCR	C37-C22-C23	3.73	123.96	118.08
13	A	807	CLA	C2D-C1D-ND	3.73	112.85	110.10
13	A	811	CLA	C11-C10-C8	-3.73	103.87	115.92
13	A	853	CLA	C4-C3-C5	3.73	121.54	115.27
13	A	853	CLA	O2D-CGD-O1D	-3.72	116.56	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	849	CLA	CBC-CAC-C3C	-3.72	102.17	112.43
13	A	861	CLA	C3D-C2D-C1D	-3.72	100.76	105.83
13	A	856	CLA	O2D-CGD-O1D	-3.72	116.57	123.84
13	B	828	CLA	C1-O2A-CGA	3.71	126.18	116.44
13	A	806	CLA	CMD-C2D-C1D	3.71	131.25	124.71
13	A	827	CLA	C3B-C4B-NB	3.71	113.96	110.52
13	A	853	CLA	C4C-C3C-C2C	-3.71	101.49	106.90
13	B	814	CLA	CMD-C2D-C1D	3.70	131.24	124.71
13	A	823	CLA	C4C-C3C-C2C	-3.70	101.50	106.90
13	B	810	CLA	CAC-C3C-C4C	3.70	129.61	124.81
13	A	808	CLA	C4-C3-C2	-3.70	114.19	123.68
13	A	817	CLA	CAC-C3C-C4C	3.70	129.61	124.81
13	B	805	CLA	CAC-C3C-C4C	3.70	129.61	124.81
13	B	847	CLA	C1C-C2C-C3C	-3.70	103.07	106.96
13	B	833	CLA	CHD-C1D-ND	-3.70	121.06	124.45
15	A	841	BCR	C34-C9-C10	-3.70	117.74	122.92
13	B	814	CLA	C2D-C1D-ND	3.70	112.83	110.10
13	A	822	CLA	C1D-CHD-C4C	-3.69	118.09	126.06
13	A	827	CLA	C1C-C2C-C3C	-3.69	103.07	106.96
13	A	861	CLA	C1C-C2C-C3C	-3.69	103.07	106.96
13	A	849	CLA	C3B-C2B-C1B	-3.69	102.70	107.16
13	B	846	CLA	C3B-C4B-NB	3.69	113.94	110.52
13	B	834	CLA	CHB-C1B-NB	-3.69	120.35	124.26
13	A	855	CLA	CHC-C1C-C2C	-3.69	116.49	126.73
13	B	806	CLA	CHD-C4C-C3C	-3.69	119.42	124.84
13	A	820	CLA	CMD-C2D-C1D	3.69	131.21	124.71
13	A	825	CLA	C3D-C4D-ND	3.69	116.20	110.24
13	B	808	CLA	C4C-C3C-C2C	-3.68	101.53	106.90
13	A	823	CLA	C3D-C2D-C1D	-3.68	100.80	105.83
13	A	850	CLA	CHD-C1D-ND	-3.68	121.07	124.45
13	A	844	CLA	C3B-C2B-C1B	-3.68	102.72	107.16
15	A	841	BCR	C34-C9-C8	3.68	123.88	118.08
13	A	822	CLA	C1-O2A-CGA	3.68	126.10	116.44
13	A	858	CLA	C6-C7-C8	-3.68	104.04	115.92
13	A	817	CLA	CHD-C1D-ND	-3.67	121.08	124.45
13	A	850	CLA	C4-C3-C5	3.67	121.45	115.27
13	A	833	CLA	C3D-C2D-C1D	-3.67	100.82	105.83
13	A	825	CLA	CMC-C2C-C1C	3.67	130.63	125.04
13	B	815	CLA	C4-C3-C5	3.67	121.44	115.27
13	A	824	CLA	C3D-C2D-C1D	-3.67	100.83	105.83
13	B	807	CLA	O2A-CGA-CBA	3.66	123.41	111.91
13	B	816	CLA	CHD-C4C-C3C	-3.66	119.46	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	F	206	BCR	C35-C13-C14	-3.66	117.80	122.92
13	B	836	CLA	C4C-C3C-C2C	-3.66	101.56	106.90
13	A	860	CLA	O2D-CGD-CBD	3.66	117.77	111.27
13	B	820	CLA	O1D-CGD-CBD	3.66	131.97	124.48
13	A	807	CLA	C3D-C4D-ND	3.66	116.16	110.24
13	A	860	CLA	C4-C3-C2	-3.66	114.29	123.68
13	B	820	CLA	C3B-C2B-C1B	-3.66	102.75	107.16
13	B	849	CLA	CHD-C4C-C3C	-3.66	119.47	124.84
13	A	812	CLA	CMD-C2D-C1D	3.66	131.16	124.71
13	A	817	CLA	C4C-C3C-C2C	-3.66	101.57	106.90
13	A	832	CLA	O2D-CGD-CBD	3.66	117.76	111.27
15	J	104	BCR	C34-C9-C10	-3.65	117.81	122.92
13	B	841	CLA	C3B-C4B-NB	3.65	113.90	110.52
13	A	822	CLA	C3D-C4D-ND	3.65	116.14	110.24
13	B	838	CLA	O2D-CGD-O1D	-3.64	116.71	123.84
13	B	821	CLA	CHD-C4C-C3C	-3.64	119.48	124.84
13	A	850	CLA	O2D-CGD-CBD	3.64	117.74	111.27
13	F	201	CLA	C3B-C2B-C1B	-3.64	102.77	107.16
13	A	817	CLA	C1C-C2C-C3C	-3.64	103.13	106.96
13	B	816	CLA	O2D-CGD-CBD	3.64	117.73	111.27
13	A	808	CLA	C3B-C2B-C1B	-3.63	102.77	107.16
15	B	822	BCR	C37-C22-C21	-3.63	117.83	122.92
13	A	816	CLA	CED-O2D-CGD	3.63	124.15	115.94
13	J	101	CLA	O2D-CGD-O1D	-3.63	116.74	123.84
13	A	821	CLA	C14-C13-C15	-3.63	98.15	111.29
13	B	835	CLA	C4C-C3C-C2C	-3.63	101.61	106.90
15	F	203	BCR	C15-C16-C17	3.62	130.90	123.47
13	B	848	CLA	C3B-C2B-C1B	-3.62	102.79	107.16
13	B	809	CLA	C2B-C1B-NB	3.62	112.66	110.23
13	A	821	CLA	CAC-C3C-C4C	3.62	129.50	124.81
13	A	809	CLA	C4C-C3C-C2C	-3.62	101.63	106.90
13	B	831	CLA	C11-C10-C8	-3.62	104.23	115.92
13	B	846	CLA	CMD-C2D-C1D	3.61	131.08	124.71
13	B	836	CLA	C1C-C2C-C3C	-3.61	103.16	106.96
13	B	846	CLA	C3D-C2D-C1D	-3.61	100.90	105.83
13	A	818	CLA	C1C-C2C-C3C	-3.61	103.16	106.96
13	A	828	CLA	C3D-C2D-C1D	-3.61	100.90	105.83
13	A	844	CLA	CHD-C1D-ND	-3.61	121.14	124.45
13	A	844	CLA	O2A-CGA-O1A	-3.61	114.48	123.59
13	B	828	CLA	CHD-C4C-C3C	-3.61	119.54	124.84
13	J	101	CLA	CHC-C1C-C2C	-3.60	116.72	126.73
13	B	810	CLA	CHD-C4C-C3C	-3.60	119.54	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	811	CLA	CMC-C2C-C1C	3.60	130.52	125.04
13	A	854	CLA	C1-O2A-CGA	3.60	125.89	116.44
13	B	818	CLA	C3D-C4D-ND	3.59	116.05	110.24
13	A	850	CLA	C9-C8-C10	3.59	124.31	111.29
13	A	820	CLA	C4C-C3C-C2C	-3.59	101.66	106.90
13	A	856	CLA	C3B-C2B-C1B	-3.59	102.83	107.16
13	B	811	CLA	CHD-C4C-C3C	-3.59	119.56	124.84
15	B	803	BCR	C34-C9-C10	-3.59	117.90	122.92
13	B	842	CLA	C3D-C4D-ND	3.58	116.03	110.24
13	A	829	CLA	C3D-C2D-C1D	-3.58	100.94	105.83
13	A	821	CLA	C4C-C3C-C2C	-3.58	101.68	106.90
13	A	811	CLA	C1-O2A-CGA	3.58	125.83	116.44
13	A	819	CLA	C1C-C2C-C3C	-3.58	103.19	106.96
13	A	810	CLA	C1D-ND-C4D	-3.58	103.79	106.33
15	B	803	BCR	C37-C22-C21	-3.57	117.92	122.92
13	F	204	CLA	C1-O2A-CGA	3.57	125.81	116.44
13	X	102	CLA	C4C-C3C-C2C	-3.57	101.70	106.90
13	A	854	CLA	C1C-C2C-C3C	-3.56	103.21	106.96
13	B	844	CLA	O2D-CGD-CBD	3.56	117.60	111.27
13	A	814	CLA	CMC-C2C-C1C	3.55	130.45	125.04
13	B	805	CLA	C4C-C3C-C2C	-3.55	101.72	106.90
13	B	830	CLA	O2D-CGD-O1D	-3.55	116.90	123.84
13	A	853	CLA	C2D-C1D-ND	3.55	112.72	110.10
13	B	811	CLA	C3B-C4B-NB	3.55	113.81	110.52
13	B	845	CLA	CHC-C4B-NB	-3.55	120.50	124.26
13	B	819	CLA	CHC-C1C-C2C	-3.54	116.89	126.73
15	B	824	BCR	C34-C9-C10	-3.54	117.96	122.92
13	A	860	CLA	C5-C3-C2	3.54	128.29	121.12
13	A	818	CLA	C3B-C4B-NB	3.54	113.80	110.52
13	A	819	CLA	C2D-C1D-ND	3.54	112.72	110.10
15	B	826	BCR	C11-C10-C9	3.54	132.37	127.31
13	X	102	CLA	CMD-C2D-C1D	3.54	130.96	124.71
13	A	818	CLA	C2D-C1D-ND	3.54	112.71	110.10
13	A	856	CLA	O2D-CGD-CBD	3.54	117.56	111.27
13	J	102	CLA	C2D-C1D-ND	3.54	112.71	110.10
13	F	204	CLA	C4C-C3C-C2C	-3.54	101.75	106.90
13	A	860	CLA	CHC-C1C-C2C	-3.53	116.91	126.73
13	A	844	CLA	C4C-C3C-C2C	-3.53	101.75	106.90
13	B	840	CLA	C9-C8-C10	3.53	124.08	111.29
15	B	826	BCR	C35-C13-C14	-3.53	117.97	122.92
13	A	815	CLA	CMC-C2C-C1C	3.53	130.41	125.04
13	A	824	CLA	C2D-C1D-ND	3.53	112.70	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	K	103	BCR	C37-C22-C21	-3.53	117.98	122.92
13	A	853	CLA	CMC-C2C-C1C	3.53	130.41	125.04
13	B	835	CLA	O2D-CGD-O1D	-3.53	116.94	123.84
13	A	826	CLA	C4C-C3C-C2C	-3.53	101.76	106.90
13	A	828	CLA	C3B-C2B-C1B	-3.53	102.91	107.16
13	A	825	CLA	CMD-C2D-C1D	3.52	130.92	124.71
13	B	820	CLA	CED-O2D-CGD	-3.52	107.97	115.94
13	B	844	CLA	CHD-C4C-C3C	-3.52	119.67	124.84
13	B	805	CLA	C3D-C2D-C1D	-3.51	101.03	105.83
13	B	839	CLA	C1-O2A-CGA	3.51	125.66	116.44
13	A	854	CLA	CHC-C1C-C2C	-3.51	116.98	126.73
15	A	862	BCR	C34-C9-C10	-3.51	118.01	122.92
13	B	849	CLA	CAC-C3C-C4C	3.51	129.36	124.81
13	A	855	CLA	C3B-C2B-C1B	-3.51	102.93	107.16
13	B	840	CLA	C3B-C2B-C1B	-3.51	102.93	107.16
13	A	815	CLA	C4-C3-C5	3.51	121.17	115.27
13	B	840	CLA	C3D-C2D-C1D	-3.51	101.04	105.83
13	B	819	CLA	O1D-CGD-CBD	-3.51	117.31	124.48
13	B	834	CLA	C1C-C2C-C3C	-3.51	103.27	106.96
13	A	810	CLA	C3D-C2D-C1D	-3.51	101.05	105.83
13	B	821	CLA	O2D-CGD-O1D	-3.51	116.98	123.84
13	F	204	CLA	C3D-C4D-ND	3.50	115.91	110.24
13	A	807	CLA	CMD-C2D-C1D	3.50	130.89	124.71
13	A	813	CLA	O2D-CGD-O1D	-3.50	116.99	123.84
13	A	817	CLA	C1D-CHD-C4C	-3.50	118.50	126.06
15	K	103	BCR	C16-C17-C18	3.50	132.30	127.31
13	A	831	CLA	C4C-C3C-C2C	-3.50	101.80	106.90
13	A	853	CLA	C6-C5-C3	-3.50	104.29	113.45
13	A	828	CLA	C4C-C3C-C2C	-3.49	101.80	106.90
13	A	851	CLA	CAA-C2A-C3A	-3.49	103.21	112.78
13	J	102	CLA	C1D-CHD-C4C	-3.49	118.53	126.06
15	B	825	BCR	C2-C3-C4	3.49	119.18	111.38
13	A	825	CLA	C2D-C1D-ND	3.49	112.68	110.10
13	A	824	CLA	C3B-C4B-NB	3.49	113.75	110.52
13	A	821	CLA	CMC-C2C-C1C	3.49	130.35	125.04
13	A	830	CLA	C4D-CHA-C1A	-3.49	117.01	121.25
12	B	852	LMT	C1-O1'-C1'	3.49	119.62	113.84
13	A	851	CLA	C2D-C1D-ND	3.48	112.67	110.10
13	A	817	CLA	C2D-C1D-ND	3.48	112.67	110.10
13	F	201	CLA	CHC-C4B-NB	-3.48	120.57	124.26
13	B	821	CLA	O2A-CGA-O1A	-3.48	114.81	123.59
13	K	101	CLA	C3B-C2B-C1B	-3.48	102.96	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	861	CLA	C4C-C3C-C2C	-3.48	101.83	106.90
13	B	814	CLA	O2D-CGD-CBD	3.48	117.45	111.27
13	A	812	CLA	CAA-CBA-CGA	3.48	123.42	113.25
13	B	846	CLA	CAA-C2A-C1A	-3.48	100.58	111.97
13	B	813	CLA	O2A-C1-C2	3.47	117.77	108.64
15	A	839	BCR	C35-C13-C14	-3.47	118.06	122.92
13	B	846	CLA	C4C-C3C-C2C	-3.47	101.84	106.90
13	A	805	CLA	C3B-C2B-C1B	-3.47	102.97	107.16
13	A	826	CLA	CMD-C2D-C1D	3.47	130.82	124.71
15	M	101	BCR	C37-C22-C21	-3.47	118.07	122.92
13	B	842	CLA	C3B-C2B-C1B	-3.47	102.98	107.16
13	B	810	CLA	C3B-C4B-NB	3.46	113.73	110.52
13	B	806	CLA	CAC-C3C-C4C	3.46	129.31	124.81
13	A	844	CLA	O2A-C1-C2	-3.46	99.54	108.64
13	J	102	CLA	CBC-CAC-C3C	3.46	121.97	112.43
13	B	817	CLA	O2D-CGD-CBD	3.46	117.41	111.27
13	A	857	CLA	CMC-C2C-C1C	3.46	130.30	125.04
13	B	831	CLA	CHC-C1C-C2C	-3.45	117.13	126.73
13	B	819	CLA	C4A-NA-C1A	3.45	108.26	106.71
13	A	813	CLA	CHC-C1C-C2C	-3.45	117.14	126.73
13	A	826	CLA	O2D-CGD-O1D	-3.45	117.09	123.84
13	K	101	CLA	CHC-C1C-C2C	-3.45	117.15	126.73
13	A	855	CLA	CMC-C2C-C1C	3.44	130.28	125.04
13	B	831	CLA	C3D-C2D-C1D	-3.44	101.13	105.83
13	A	861	CLA	C1-C2-C3	-3.44	120.09	126.04
13	A	855	CLA	CMD-C2D-C1D	3.44	130.78	124.71
13	A	814	CLA	C9-C8-C7	3.44	123.76	111.29
13	B	839	CLA	C4C-C3C-C2C	-3.44	101.88	106.90
13	A	816	CLA	C4C-C3C-C2C	-3.44	101.89	106.90
13	A	860	CLA	O2A-CGA-CBA	3.44	122.70	111.91
13	A	812	CLA	C9-C8-C10	3.44	123.74	111.29
15	A	838	BCR	C34-C9-C10	-3.44	118.11	122.92
13	A	832	CLA	CAC-C3C-C2C	3.44	133.41	127.53
13	B	844	CLA	C3B-C4B-NB	3.44	113.70	110.52
13	B	837	CLA	C3B-C4B-NB	3.43	113.70	110.52
13	A	808	CLA	C2D-C1D-ND	3.43	112.63	110.10
13	A	858	CLA	O2D-CGD-O1D	-3.43	117.13	123.84
13	B	844	CLA	CMD-C2D-C1D	3.43	130.76	124.71
13	F	204	CLA	CHC-C1C-C2C	-3.43	117.20	126.73
13	A	848	CLA	CHC-C1C-C2C	-3.43	117.20	126.73
13	A	851	CLA	C3D-C4D-ND	3.43	115.79	110.24
13	B	820	CLA	C2D-C1D-ND	3.43	112.63	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	805	CLA	C3D-C4D-ND	3.43	115.78	110.24
13	B	816	CLA	C1C-C2C-C3C	-3.43	103.35	106.96
13	B	831	CLA	C4C-C3C-C2C	-3.43	101.90	106.90
13	B	831	CLA	C3B-C4B-NB	3.43	113.69	110.52
13	A	814	CLA	C2B-C1B-NB	3.42	112.53	110.23
13	A	849	CLA	CMC-C2C-C1C	3.42	130.25	125.04
13	J	102	CLA	C1C-C2C-C3C	-3.42	103.36	106.96
13	B	841	CLA	C9-C8-C7	3.42	123.69	111.29
13	A	821	CLA	C2D-C1D-ND	3.42	112.63	110.10
13	A	844	CLA	CMD-C2D-C1D	3.42	130.74	124.71
13	K	104	CLA	C1D-CHD-C4C	-3.42	118.69	126.06
13	B	811	CLA	C3D-C4D-ND	3.41	115.76	110.24
13	B	842	CLA	O2A-CGA-O1A	-3.41	114.98	123.59
13	B	850	CLA	CHD-C1D-ND	-3.41	121.32	124.45
13	B	828	CLA	C3D-C2D-C1D	-3.41	101.18	105.83
15	A	842	BCR	C37-C22-C21	-3.41	118.15	122.92
13	B	805	CLA	O2D-CGD-O1D	-3.41	117.18	123.84
13	A	853	CLA	C3D-C2D-C1D	-3.41	101.18	105.83
13	A	828	CLA	O2A-CGA-CBA	3.41	122.59	111.91
13	A	849	CLA	O2A-CGA-O1A	-3.40	115.00	123.59
18	A	847	CL0	O2D-CGD-O1D	-3.40	117.19	123.84
13	A	860	CLA	C9-C8-C10	3.40	123.61	111.29
13	A	854	CLA	CBC-CAC-C3C	-3.40	103.06	112.43
13	B	815	CLA	C3B-C4B-NB	3.40	113.67	110.52
13	A	827	CLA	C9-C8-C10	3.39	123.58	111.29
13	A	848	CLA	C1C-C2C-C3C	-3.39	103.39	106.96
13	A	829	CLA	C4C-C3C-C2C	-3.39	101.95	106.90
13	B	836	CLA	C3B-C4B-NB	3.39	113.66	110.52
13	B	838	CLA	CHD-C4C-C3C	-3.39	119.86	124.84
13	B	834	CLA	C9-C8-C10	3.39	123.56	111.29
13	F	201	CLA	CMD-C2D-C1D	3.39	130.68	124.71
13	A	857	CLA	C9-C8-C7	3.39	123.55	111.29
15	J	104	BCR	C1-C6-C7	3.38	125.35	115.78
15	B	825	BCR	C34-C9-C10	-3.38	118.19	122.92
13	B	844	CLA	CMC-C2C-C1C	3.38	130.19	125.04
13	A	813	CLA	CAC-C3C-C4C	3.38	129.20	124.81
13	A	815	CLA	CMD-C2D-C1D	3.38	130.67	124.71
13	B	839	CLA	CHC-C1C-C2C	-3.38	117.35	126.73
13	B	850	CLA	C6-C5-C3	-3.37	104.61	113.45
13	B	818	CLA	CMD-C2D-C1D	3.37	130.66	124.71
13	B	828	CLA	CMD-C2D-C1D	3.37	130.66	124.71
13	A	856	CLA	C3D-C4D-ND	3.37	115.69	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	821	CLA	CMC-C2C-C1C	3.37	130.17	125.04
13	A	814	CLA	C1-C2-C3	-3.37	120.21	126.04
13	A	814	CLA	C4C-C3C-C2C	-3.37	101.98	106.90
13	B	845	CLA	CHC-C1C-C2C	-3.37	117.37	126.73
13	A	817	CLA	C2A-C1A-CHA	-3.37	117.97	123.86
15	J	104	BCR	C7-C6-C5	-3.37	113.30	121.46
13	B	840	CLA	CMC-C2C-C1C	3.37	130.16	125.04
13	X	102	CLA	C3D-C2D-C1D	-3.36	101.24	105.83
13	A	858	CLA	O2A-C1-C2	3.36	117.47	108.64
13	X	102	CLA	C1D-ND-C4D	-3.36	103.95	106.33
13	A	853	CLA	C3B-C4B-NB	3.36	113.63	110.52
13	A	830	CLA	C3D-C2D-C1D	-3.36	101.25	105.83
13	B	814	CLA	CMC-C2C-C1C	3.36	130.16	125.04
13	B	840	CLA	C6-C7-C8	3.36	126.77	115.92
13	B	809	CLA	CHC-C1C-C2C	-3.36	117.40	126.73
13	A	816	CLA	C3D-C2D-C1D	-3.36	101.25	105.83
13	A	848	CLA	CMD-C2D-C1D	3.36	130.63	124.71
13	B	820	CLA	CMD-C2D-C1D	3.36	130.63	124.71
13	A	851	CLA	C9-C8-C7	3.36	123.44	111.29
13	B	811	CLA	C2D-C1D-ND	3.35	112.58	110.10
13	K	104	CLA	C1-C2-C3	-3.35	120.24	126.04
13	B	819	CLA	C1D-CHD-C4C	-3.35	118.83	126.06
13	B	837	CLA	C9-C8-C10	3.35	123.43	111.29
13	A	858	CLA	CHC-C1C-C2C	-3.35	117.42	126.73
13	B	850	CLA	C1C-C2C-C3C	-3.35	103.43	106.96
13	A	815	CLA	C9-C8-C10	3.35	123.42	111.29
13	A	830	CLA	C1C-C2C-C3C	-3.35	103.44	106.96
13	A	808	CLA	O2A-CGA-O1A	3.35	132.04	123.59
13	A	848	CLA	CHB-C1B-C2B	-3.35	117.78	127.24
13	A	830	CLA	C2A-C1A-CHA	-3.35	118.01	123.86
13	A	812	CLA	C4C-C3C-C2C	-3.35	102.02	106.90
13	A	832	CLA	CHC-C1C-C2C	-3.34	117.44	126.73
13	B	833	CLA	C2D-C1D-ND	3.34	112.57	110.10
13	A	810	CLA	C4-C3-C5	3.34	120.89	115.27
13	B	847	CLA	C2B-C1B-NB	3.34	112.47	110.23
13	B	838	CLA	C3B-C2B-C1B	-3.34	103.13	107.16
13	A	812	CLA	CAC-C3C-C4C	3.34	129.14	124.81
13	A	814	CLA	CMD-C2D-C1D	3.34	130.60	124.71
13	A	828	CLA	C3D-C4D-ND	3.33	115.63	110.24
13	B	841	CLA	CMC-C2C-C1C	3.33	130.12	125.04
13	A	823	CLA	O2D-CGD-CBD	3.33	117.19	111.27
13	A	826	CLA	C3D-C2D-C1D	-3.33	101.29	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	813	CLA	C3B-C2B-C1B	-3.33	103.14	107.16
13	A	858	CLA	C9-C8-C7	3.33	123.34	111.29
13	B	836	CLA	C9-C8-C7	3.33	123.34	111.29
13	A	831	CLA	C9-C8-C10	3.32	123.33	111.29
13	B	809	CLA	O2D-CGD-O1D	-3.32	117.35	123.84
13	B	837	CLA	C6-C7-C8	-3.32	105.19	115.92
13	A	861	CLA	C1D-CHD-C4C	-3.32	118.90	126.06
13	A	849	CLA	CMD-C2D-C1D	3.32	130.56	124.71
13	A	805	CLA	C3D-C2D-C1D	-3.32	101.31	105.83
13	A	822	CLA	C3D-C2D-C1D	-3.31	101.31	105.83
13	B	838	CLA	CMD-C2D-C1D	3.31	130.55	124.71
13	A	807	CLA	CHC-C1C-C2C	-3.31	117.53	126.73
13	A	831	CLA	CMD-C2D-C1D	3.31	130.55	124.71
13	B	849	CLA	C1D-ND-C4D	-3.31	103.98	106.33
13	B	845	CLA	C3B-C2B-C1B	-3.31	103.17	107.16
13	A	830	CLA	C1-O2A-CGA	3.31	125.12	116.44
13	B	833	CLA	C4C-C3C-C2C	-3.31	102.08	106.90
13	A	844	CLA	C1D-CHD-C4C	-3.30	118.93	126.06
13	A	810	CLA	C3B-C2B-C1B	-3.30	103.17	107.16
13	A	858	CLA	C1C-C2C-C3C	-3.30	103.48	106.96
15	F	203	BCR	C37-C22-C23	3.30	123.28	118.08
13	A	808	CLA	O2D-CGD-O1D	-3.30	117.38	123.84
13	A	812	CLA	C3D-C4D-ND	3.30	115.57	110.24
15	B	824	BCR	C37-C22-C21	-3.30	118.31	122.92
13	B	836	CLA	CAA-C2A-C1A	-3.30	101.18	111.97
13	A	854	CLA	O2D-CGD-O1D	-3.29	117.40	123.84
13	A	805	CLA	CMD-C2D-C1D	3.29	130.52	124.71
13	A	830	CLA	C9-C8-C10	3.29	123.22	111.29
15	A	838	BCR	C34-C9-C8	3.29	123.27	118.08
13	B	832	CLA	C3D-C4D-ND	3.29	115.56	110.24
13	B	850	CLA	C1D-ND-C4D	-3.29	104.00	106.33
15	B	824	BCR	C37-C22-C23	3.29	123.26	118.08
13	B	847	CLA	CHD-C4C-C3C	-3.29	120.01	124.84
13	B	844	CLA	CHD-C1D-ND	-3.29	121.43	124.45
13	A	860	CLA	C6-C7-C8	-3.29	105.30	115.92
13	B	845	CLA	C3D-C2D-C1D	-3.29	101.35	105.83
13	A	833	CLA	C3B-C4B-NB	3.28	113.56	110.52
13	A	813	CLA	C6-C7-C8	-3.28	105.31	115.92
13	A	812	CLA	O2D-CGD-CBD	3.27	117.08	111.27
13	B	832	CLA	CHC-C1C-C2C	-3.27	117.64	126.73
13	A	812	CLA	OBD-CAD-C3D	-3.27	120.66	128.52
13	B	809	CLA	O2D-CGD-CBD	3.26	117.06	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	J	102	CLA	CMB-C2B-C1B	3.26	130.33	125.37
13	B	848	CLA	C4C-C3C-C2C	-3.26	102.15	106.90
15	B	802	BCR	C29-C30-C25	3.26	115.49	110.48
13	A	808	CLA	O2A-C1-C2	3.26	117.19	108.64
13	A	818	CLA	CAC-C3C-C4C	3.25	129.03	124.81
13	B	813	CLA	C4A-NA-C1A	3.25	108.17	106.71
13	A	849	CLA	C6-C5-C3	-3.25	104.93	113.45
13	A	853	CLA	C5-C3-C2	-3.25	114.54	121.12
15	B	825	BCR	C36-C18-C19	3.25	123.20	118.08
13	B	842	CLA	CHC-C1C-C2C	-3.25	117.71	126.73
13	A	849	CLA	C4A-NA-C1A	3.25	108.17	106.71
13	A	851	CLA	C3B-C2B-C1B	-3.25	103.24	107.16
13	A	811	CLA	C9-C8-C7	3.25	123.05	111.29
13	B	845	CLA	C6-C5-C3	3.24	121.96	113.45
15	B	822	BCR	C37-C22-C23	3.24	123.19	118.08
13	B	829	CLA	C3B-C2B-C1B	-3.24	103.25	107.16
13	B	813	CLA	CMD-C2D-C1D	3.24	130.42	124.71
13	B	813	CLA	C10-C8-C7	3.24	129.16	112.13
13	A	844	CLA	C1-O2A-CGA	3.24	124.94	116.44
13	A	830	CLA	CAC-C3C-C4C	3.24	129.01	124.81
13	B	820	CLA	C9-C8-C10	3.24	123.01	111.29
13	A	850	CLA	CAC-C3C-C4C	3.24	129.01	124.81
13	A	825	CLA	O2A-CGA-CBA	3.23	122.06	111.91
13	B	820	CLA	C3D-C2D-C1D	-3.23	101.42	105.83
13	B	828	CLA	C3D-C4D-ND	3.23	115.47	110.24
13	B	809	CLA	C3D-C4D-ND	3.23	115.47	110.24
13	A	805	CLA	CMC-C2C-C1C	3.23	129.96	125.04
13	B	837	CLA	C4-C3-C5	3.23	120.71	115.27
13	A	861	CLA	C3B-C4B-NB	3.23	113.51	110.52
13	A	833	CLA	C4-C3-C2	-3.23	115.39	123.68
13	B	840	CLA	C1-C2-C3	-3.23	120.46	126.04
13	A	832	CLA	C4C-C3C-C2C	-3.23	102.19	106.90
13	F	201	CLA	C3D-C4D-ND	3.23	115.46	110.24
13	B	831	CLA	CMD-C2D-C1D	3.23	130.40	124.71
13	A	806	CLA	O2D-CGD-CBD	3.23	117.00	111.27
13	A	820	CLA	C3D-C2D-C1D	-3.22	101.43	105.83
16	A	843	LHG	O7-C7-C8	-3.22	104.55	111.50
15	J	103	BCR	C34-C9-C8	3.22	123.16	118.08
13	K	101	CLA	C1D-CHD-C4C	-3.22	119.10	126.06
13	A	808	CLA	C3D-C4D-ND	3.22	115.45	110.24
13	A	824	CLA	C7-C6-C5	-3.22	104.61	113.36
15	A	841	BCR	C36-C18-C17	-3.22	118.42	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	841	CLA	CMB-C2B-C1B	3.22	130.27	125.37
13	B	843	CLA	C9-C8-C10	3.22	122.94	111.29
13	B	814	CLA	C3D-C4D-ND	3.21	115.44	110.24
15	M	101	BCR	C16-C15-C14	3.21	130.06	123.47
13	A	844	CLA	O2D-CGD-CBD	3.21	116.98	111.27
13	A	830	CLA	C3D-C4D-ND	3.21	115.43	110.24
13	K	101	CLA	C4D-CHA-C1A	-3.21	117.34	121.25
13	A	859	CLA	C11-C10-C8	3.21	126.30	115.92
13	B	828	CLA	CHC-C1C-C2C	-3.21	117.82	126.73
13	A	814	CLA	C1D-ND-C4D	3.21	108.61	106.33
13	B	814	CLA	C3B-C4B-NB	3.20	113.49	110.52
13	A	811	CLA	C3A-C2A-C1A	-3.20	96.54	101.34
13	A	822	CLA	CMC-C2C-C1C	3.20	129.91	125.04
13	J	101	CLA	C3D-C4D-ND	3.20	115.41	110.24
13	A	861	CLA	C3D-C4D-ND	3.20	115.41	110.24
13	B	810	CLA	C4A-NA-C1A	-3.20	105.27	106.71
13	A	815	CLA	CHC-C4B-NB	-3.20	120.87	124.26
13	B	841	CLA	CHC-C1C-C2C	-3.20	117.85	126.73
13	B	833	CLA	C3D-C4D-ND	3.19	115.41	110.24
13	B	805	CLA	CMC-C2C-C1C	3.19	129.90	125.04
13	A	832	CLA	CAC-C3C-C4C	-3.19	120.67	124.81
13	A	806	CLA	CHC-C1C-C2C	-3.19	117.87	126.73
13	B	807	CLA	C3B-C2B-C1B	-3.19	103.31	107.16
13	A	805	CLA	O2D-CGD-CBD	3.19	116.93	111.27
13	A	805	CLA	CHC-C1C-C2C	-3.19	117.88	126.73
15	B	803	BCR	C34-C9-C8	3.18	123.09	118.08
13	B	850	CLA	C2B-C1B-NB	3.18	112.36	110.23
13	F	201	CLA	CBA-CAA-C2A	-3.18	104.48	113.86
13	A	851	CLA	CHC-C1C-C2C	-3.18	117.90	126.73
15	M	101	BCR	C34-C9-C10	-3.18	118.47	122.92
13	J	101	CLA	CAA-C2A-C1A	3.18	122.38	111.97
13	A	806	CLA	C1-O2A-CGA	3.18	124.78	116.44
15	A	839	BCR	C34-C9-C8	3.17	123.08	118.08
13	B	850	CLA	O2D-CGD-O1D	-3.17	117.63	123.84
13	A	822	CLA	C9-C8-C10	3.17	122.78	111.29
13	A	821	CLA	O2D-CGD-O1D	-3.17	117.64	123.84
12	B	801	LMT	O1'-C1'-C2'	3.17	113.25	108.30
13	B	834	CLA	O2A-C1-C2	-3.16	100.32	108.64
13	B	820	CLA	O2A-C1-C2	-3.16	100.33	108.64
13	A	844	CLA	C3D-C2D-C1D	-3.16	101.52	105.83
13	B	836	CLA	CAC-C3C-C4C	3.16	128.91	124.81
15	A	842	BCR	C16-C15-C14	3.16	129.94	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	812	CLA	CHD-C1D-ND	-3.16	121.55	124.45
13	A	811	CLA	C3B-C2B-C1B	-3.16	103.35	107.16
13	A	811	CLA	O2A-CGA-CBA	3.16	121.81	111.91
13	B	840	CLA	C7-C6-C5	-3.15	104.79	113.36
13	B	850	CLA	O2D-CGD-CBD	3.15	116.86	111.27
13	A	807	CLA	CMC-C2C-C1C	3.15	129.84	125.04
15	J	104	BCR	C35-C13-C14	-3.15	118.51	122.92
13	B	821	CLA	C1C-C2C-C3C	-3.15	103.65	106.96
13	A	848	CLA	CHD-C1D-ND	-3.15	121.56	124.45
13	A	807	CLA	C2A-C1A-CHA	-3.15	118.36	123.86
13	B	835	CLA	C1D-CHD-C4C	-3.15	119.27	126.06
13	B	848	CLA	C6-C5-C3	-3.15	105.21	113.45
13	B	815	CLA	C9-C8-C7	3.14	122.66	111.29
13	A	850	CLA	C7-C6-C5	-3.14	104.84	113.36
13	X	102	CLA	C3B-C4B-NB	3.13	113.42	110.52
13	A	818	CLA	C7-C6-C5	-3.13	104.85	113.36
13	B	808	CLA	C4A-NA-C1A	-3.13	105.30	106.71
13	A	857	CLA	O2A-CGA-O1A	-3.13	115.69	123.59
13	A	819	CLA	O2D-CGD-CBD	3.13	116.83	111.27
13	A	817	CLA	OBD-CAD-C3D	-3.13	120.99	128.52
15	B	825	BCR	C37-C22-C21	-3.13	118.54	122.92
15	A	840	BCR	C34-C9-C10	-3.13	118.55	122.92
13	B	813	CLA	CHC-C1C-C2C	-3.12	118.06	126.73
13	A	806	CLA	CBC-CAC-C3C	-3.12	103.82	112.43
13	A	828	CLA	C1C-C2C-C3C	-3.12	103.67	106.96
13	B	837	CLA	C1C-C2C-C3C	-3.12	103.68	106.96
13	A	823	CLA	CMD-C2D-C1D	3.12	130.21	124.71
13	A	828	CLA	CHD-C4C-C3C	-3.12	120.26	124.84
13	A	856	CLA	CAA-C2A-C3A	-3.12	104.25	112.78
13	B	845	CLA	C2D-C1D-ND	3.11	112.40	110.10
13	A	863	CLA	C1-O2A-CGA	-3.11	108.28	116.44
13	A	812	CLA	O2D-CGD-O1D	-3.11	117.75	123.84
13	A	819	CLA	C2B-C1B-NB	3.11	112.31	110.23
18	A	847	CL0	CMD-C2D-C1D	3.11	130.19	124.71
13	B	834	CLA	O1D-CGD-CBD	-3.11	118.13	124.48
13	A	850	CLA	C3D-C4D-ND	3.11	115.26	110.24
15	F	206	BCR	C37-C22-C23	3.10	122.97	118.08
13	A	858	CLA	C3B-C4B-NB	3.10	113.39	110.52
13	A	818	CLA	C4C-C3C-C2C	-3.10	102.38	106.90
13	A	808	CLA	C4-C3-C5	3.10	120.49	115.27
13	B	819	CLA	C1C-C2C-C3C	-3.10	103.70	106.96
13	A	854	CLA	O2A-CGA-CBA	3.10	121.63	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	808	CLA	O2A-CGA-O1A	-3.10	115.77	123.59
13	A	816	CLA	C2A-C3A-C4A	-3.10	96.87	101.87
13	B	834	CLA	C4A-NA-C1A	3.09	108.10	106.71
15	B	822	BCR	C34-C9-C8	3.09	122.95	118.08
15	B	803	BCR	C16-C15-C14	3.09	129.81	123.47
13	B	844	CLA	C9-C8-C10	3.09	122.48	111.29
13	J	102	CLA	O2D-CGD-O1D	-3.09	117.80	123.84
13	A	822	CLA	C4C-C3C-C2C	-3.09	102.39	106.90
13	B	815	CLA	C9-C8-C10	3.09	122.48	111.29
13	A	813	CLA	CMC-C2C-C1C	3.09	129.74	125.04
13	A	817	CLA	O2D-CGD-O1D	-3.09	117.80	123.84
13	A	844	CLA	C2A-C1A-CHA	-3.08	118.47	123.86
15	B	825	BCR	C16-C15-C14	3.08	129.79	123.47
13	A	814	CLA	CED-O2D-CGD	3.08	122.91	115.94
13	A	828	CLA	O2D-CGD-CBD	3.08	116.74	111.27
13	B	807	CLA	C4C-C3C-C2C	-3.08	102.41	106.90
13	A	822	CLA	CHC-C1C-C2C	-3.08	118.19	126.73
13	B	808	CLA	C2B-C1B-NB	3.07	112.29	110.23
13	F	201	CLA	C9-C8-C10	3.07	122.42	111.29
13	A	806	CLA	CHD-C1D-ND	-3.07	121.63	124.45
13	B	830	CLA	C4C-C3C-C2C	-3.07	102.42	106.90
13	A	818	CLA	C3D-C2D-C1D	-3.07	101.64	105.83
13	B	821	CLA	C11-C10-C8	3.07	125.84	115.92
18	A	847	CL0	CHD-C4C-C3C	-3.07	120.33	124.84
13	A	816	CLA	CHC-C1C-C2C	-3.07	118.22	126.73
13	F	204	CLA	O2A-CGA-CBA	3.06	121.53	111.91
13	B	807	CLA	CHD-C1D-ND	-3.06	121.64	124.45
13	B	847	CLA	C4C-C3C-C2C	-3.06	102.43	106.90
13	A	827	CLA	C3B-C2B-C1B	-3.06	103.47	107.16
15	B	822	BCR	C36-C18-C17	-3.06	118.64	122.92
13	B	810	CLA	O2D-CGD-O1D	-3.06	117.86	123.84
13	A	848	CLA	O1A-CGA-CBA	-3.06	111.81	123.73
13	B	836	CLA	C2B-C1B-NB	3.06	112.28	110.23
13	B	845	CLA	C1-O2A-CGA	3.06	124.46	116.44
13	A	815	CLA	C4C-C3C-C2C	-3.06	102.44	106.90
13	B	839	CLA	C9-C8-C7	3.06	122.36	111.29
13	B	839	CLA	CMC-C2C-C1C	3.05	129.69	125.04
13	A	805	CLA	C9-C8-C10	3.05	122.35	111.29
13	A	825	CLA	CHB-C4A-NA	3.05	128.73	124.51
13	B	811	CLA	C1C-C2C-C3C	-3.05	103.75	106.96
13	B	837	CLA	C3B-C2B-C1B	-3.05	103.48	107.16
15	F	206	BCR	C37-C22-C21	-3.05	118.65	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	B	826	BCR	C15-C16-C17	3.05	129.71	123.47
13	B	836	CLA	CHD-C1D-ND	-3.04	121.66	124.45
13	A	825	CLA	CAC-C3C-C4C	3.04	128.76	124.81
13	B	835	CLA	C1C-C2C-C3C	-3.04	103.76	106.96
13	A	819	CLA	CHC-C1C-C2C	-3.04	118.29	126.73
13	A	844	CLA	O2A-CGA-CBA	3.04	121.44	111.91
13	B	840	CLA	CHB-C4A-NA	3.04	128.71	124.51
13	A	824	CLA	CHB-C4A-NA	3.04	128.71	124.51
13	B	818	CLA	C1C-C2C-C3C	-3.03	103.77	106.96
13	A	858	CLA	C1-O2A-CGA	3.03	124.40	116.44
13	B	842	CLA	CAA-C2A-C1A	3.03	121.91	111.97
13	A	829	CLA	CHD-C4C-C3C	-3.03	120.38	124.84
12	A	801	LMT	C3'-C4'-C5'	-3.03	103.98	110.93
13	A	833	CLA	C3D-C4D-ND	3.03	115.13	110.24
13	K	101	CLA	O2D-CGD-CBD	3.03	116.65	111.27
13	B	808	CLA	CBC-CAC-C3C	-3.03	104.09	112.43
13	B	838	CLA	C3D-C4D-ND	3.03	115.13	110.24
15	B	826	BCR	C37-C22-C23	3.03	122.84	118.08
13	B	844	CLA	CHC-C1C-C2C	-3.03	118.33	126.73
13	A	848	CLA	CHC-C4B-NB	-3.03	121.05	124.26
13	B	829	CLA	CHA-C1A-NA	-3.02	119.47	126.40
13	B	836	CLA	CHC-C4B-NB	-3.02	121.06	124.26
13	B	850	CLA	CED-O2D-CGD	3.02	122.76	115.94
13	A	810	CLA	CHC-C1C-C2C	-3.02	118.35	126.73
13	B	816	CLA	CHC-C1C-C2C	-3.02	118.35	126.73
13	B	817	CLA	CHC-C1C-C2C	-3.02	118.35	126.73
18	A	847	CL0	C3D-C2D-C1D	-3.02	101.71	105.83
13	A	854	CLA	C9-C8-C10	3.02	122.22	111.29
13	A	806	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
13	A	819	CLA	C9-C8-C10	3.01	122.20	111.29
15	B	803	BCR	C35-C13-C14	-3.01	118.70	122.92
13	B	831	CLA	O2A-CGA-CBA	3.01	121.36	111.91
13	B	806	CLA	C1D-ND-C4D	-3.01	104.20	106.33
15	A	839	BCR	C15-C16-C17	3.01	129.64	123.47
13	A	821	CLA	C2B-C1B-NB	3.01	112.25	110.23
15	K	103	BCR	C10-C11-C12	3.01	132.60	123.22
13	A	829	CLA	CHD-C1D-ND	-3.01	121.69	124.45
13	A	855	CLA	C1D-CHD-C4C	-3.00	119.58	126.06
13	B	834	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
13	B	821	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
13	B	815	CLA	CHD-C1D-ND	-2.99	121.70	124.45
13	A	821	CLA	C1D-CHD-C4C	-2.99	119.60	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	834	CLA	C3D-C2D-C1D	-2.99	101.75	105.83
15	B	825	BCR	C37-C22-C23	2.99	122.79	118.08
15	J	104	BCR	C33-C5-C6	-2.99	121.17	124.53
13	A	833	CLA	C1C-C2C-C3C	-2.99	103.82	106.96
13	A	809	CLA	C9-C8-C7	2.98	122.10	111.29
13	B	831	CLA	C3D-C4D-ND	2.98	115.06	110.24
13	B	841	CLA	C11-C10-C8	-2.98	106.29	115.92
15	F	203	BCR	C16-C15-C14	2.98	129.57	123.47
13	A	818	CLA	CMB-C2B-C1B	2.98	129.90	125.37
13	B	833	CLA	C7-C6-C5	-2.98	105.28	113.36
13	K	104	CLA	C1C-C2C-C3C	-2.98	103.83	106.96
13	A	830	CLA	C1D-CHD-C4C	-2.97	119.64	126.06
13	B	850	CLA	CHC-C1C-C2C	-2.97	118.47	126.73
15	F	202	BCR	C15-C16-C17	2.97	129.56	123.47
13	A	821	CLA	CHC-C1C-C2C	-2.97	118.47	126.73
13	B	830	CLA	CMD-C2D-C1D	2.97	129.95	124.71
13	A	832	CLA	C9-C8-C10	2.97	122.05	111.29
13	A	848	CLA	O2A-CGA-O1A	2.97	131.09	123.59
13	B	846	CLA	C3D-C4D-ND	2.96	115.03	110.24
15	A	838	BCR	C37-C22-C23	2.96	122.75	118.08
13	B	833	CLA	C1C-C2C-C3C	-2.96	103.84	106.96
15	A	838	BCR	C37-C22-C21	-2.96	118.78	122.92
13	A	822	CLA	C9-C8-C7	2.96	122.00	111.29
13	B	807	CLA	O2D-CGD-O1D	-2.96	118.06	123.84
13	J	102	CLA	OBD-CAD-C3D	-2.95	121.41	128.52
13	A	828	CLA	CED-O2D-CGD	2.95	122.62	115.94
15	B	803	BCR	C36-C18-C17	-2.95	118.79	122.92
13	B	850	CLA	CHD-C4C-C3C	-2.95	120.50	124.84
13	A	828	CLA	CHC-C4B-NB	-2.95	121.14	124.26
13	B	819	CLA	CHB-C4A-NA	2.95	128.59	124.51
13	B	844	CLA	O2D-CGD-O1D	-2.95	118.08	123.84
13	A	832	CLA	CHD-C1D-ND	-2.95	121.75	124.45
13	B	808	CLA	C1C-C2C-C3C	-2.95	103.86	106.96
13	B	829	CLA	C1C-C2C-C3C	-2.95	103.86	106.96
13	B	834	CLA	CMC-C2C-C1C	2.94	129.52	125.04
13	B	837	CLA	C1-C2-C3	-2.94	120.96	126.04
13	F	201	CLA	O2A-CGA-CBA	2.94	121.13	111.91
13	B	809	CLA	CMC-C2C-C1C	2.94	129.51	125.04
15	A	838	BCR	C31-C1-C6	-2.93	105.55	110.30
13	A	805	CLA	C9-C8-C7	2.93	121.90	111.29
13	B	832	CLA	C9-C8-C10	2.93	121.90	111.29
15	B	826	BCR	C37-C22-C21	-2.93	118.82	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	861	CLA	CHC-C1C-C2C	-2.93	118.60	126.73
13	A	860	CLA	C3D-C4D-ND	2.93	114.97	110.24
13	B	834	CLA	C1-O2A-CGA	2.93	124.12	116.44
13	B	846	CLA	C3B-C2B-C1B	-2.92	103.63	107.16
13	B	808	CLA	CMC-C2C-C1C	2.92	129.49	125.04
13	B	830	CLA	C3D-C2D-C1D	-2.92	101.85	105.83
13	B	808	CLA	O2D-CGD-CBD	2.92	116.45	111.27
13	B	818	CLA	CMC-C2C-C1C	2.91	129.48	125.04
13	A	823	CLA	CHB-C1B-NB	-2.91	121.17	124.26
13	B	807	CLA	CHC-C1C-C2C	-2.91	118.64	126.73
13	A	818	CLA	CMC-C2C-C1C	2.91	129.47	125.04
13	B	828	CLA	CHC-C4B-NB	-2.91	121.18	124.26
13	B	829	CLA	O2D-CGD-O1D	-2.91	118.16	123.84
13	A	851	CLA	CBC-CAC-C3C	-2.90	104.42	112.43
18	A	847	CL0	CHD-C1D-ND	-2.90	121.78	124.45
13	B	839	CLA	O2D-CGD-CBD	2.90	116.43	111.27
13	A	809	CLA	C11-C10-C8	-2.90	106.54	115.92
13	A	844	CLA	C1C-C2C-C3C	-2.90	103.91	106.96
15	F	206	BCR	C15-C16-C17	2.90	129.41	123.47
13	A	819	CLA	C3D-C4D-ND	2.90	114.93	110.24
15	J	103	BCR	C37-C22-C23	2.90	122.65	118.08
13	A	831	CLA	O2A-C1-C2	-2.90	101.02	108.64
13	B	850	CLA	C3D-C2D-C1D	-2.90	101.88	105.83
13	B	838	CLA	C4C-C3C-C2C	-2.90	102.68	106.90
13	A	855	CLA	C4D-CHA-C1A	-2.89	117.73	121.25
13	B	842	CLA	CBC-CAC-C3C	-2.89	104.45	112.43
21	X	101	SQD	O8-S-O9	-2.89	104.21	111.27
13	B	806	CLA	C3D-C2D-C1D	-2.89	101.89	105.83
15	A	862	BCR	C38-C26-C25	2.89	127.77	124.53
13	B	821	CLA	O2A-CGA-CBA	2.89	120.98	111.91
13	A	815	CLA	C1D-ND-C4D	2.89	108.39	106.33
15	A	838	BCR	C40-C30-C25	-2.89	105.62	110.30
13	B	815	CLA	C3D-C2D-C1D	-2.89	101.89	105.83
13	A	861	CLA	C9-C8-C10	2.88	121.74	111.29
13	B	831	CLA	CED-O2D-CGD	2.88	122.46	115.94
13	A	860	CLA	CAC-C3C-C4C	2.88	128.55	124.81
13	A	831	CLA	C1D-ND-C4D	-2.88	104.29	106.33
13	B	820	CLA	C2A-C1A-CHA	-2.88	118.82	123.86
13	X	102	CLA	CBC-CAC-C3C	-2.88	104.49	112.43
13	B	821	CLA	C3D-C2D-C1D	-2.88	101.90	105.83
13	A	831	CLA	CHC-C1C-C2C	-2.88	118.73	126.73
13	A	833	CLA	CMD-C2D-C1D	2.88	129.78	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	811	CLA	CBC-CAC-C3C	-2.88	104.50	112.43
13	A	853	CLA	CHC-C1C-C2C	-2.87	118.75	126.73
13	B	811	CLA	OBD-CAD-C3D	-2.87	121.61	128.52
13	A	824	CLA	C1D-CHD-C4C	-2.87	119.86	126.06
13	B	835	CLA	CED-O2D-CGD	2.87	122.43	115.94
13	B	811	CLA	CHC-C1C-C2C	-2.87	118.76	126.73
13	A	826	CLA	CAA-CBA-CGA	2.87	121.63	113.25
13	B	816	CLA	C3B-C2B-C1B	-2.86	103.70	107.16
13	A	809	CLA	C1C-C2C-C3C	-2.86	103.95	106.96
13	B	842	CLA	CBA-CAA-C2A	2.86	122.31	113.86
13	F	201	CLA	CHC-C1C-NC	-2.86	119.86	124.20
13	A	822	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
13	B	837	CLA	CHC-C1C-C2C	-2.86	118.79	126.73
13	A	844	CLA	C4A-NA-C1A	2.86	107.99	106.71
13	B	831	CLA	CMB-C2B-C3B	2.85	133.50	126.59
13	A	808	CLA	CHD-C1D-ND	-2.85	121.83	124.45
13	A	828	CLA	CBC-CAC-C3C	-2.85	104.57	112.43
13	B	849	CLA	C1-O2A-CGA	2.85	123.92	116.44
13	A	816	CLA	C2D-C1D-ND	2.85	112.20	110.10
13	A	815	CLA	C1C-C2C-C3C	-2.85	103.96	106.96
15	A	841	BCR	C37-C22-C21	-2.85	118.93	122.92
13	B	816	CLA	OBD-CAD-C3D	-2.85	121.67	128.52
15	F	203	BCR	C37-C22-C21	-2.85	118.94	122.92
13	A	832	CLA	CMD-C2D-C1D	2.84	129.73	124.71
13	A	851	CLA	C4D-CHA-C1A	-2.84	117.79	121.25
13	A	826	CLA	CHC-C1C-C2C	-2.84	118.83	126.73
13	A	814	CLA	C2D-C1D-ND	-2.84	108.01	110.10
13	A	816	CLA	CAC-C3C-C4C	2.84	128.50	124.81
13	A	809	CLA	O2A-CGA-O1A	-2.84	116.42	123.59
13	B	835	CLA	CBC-CAC-C3C	-2.84	104.60	112.43
13	A	816	CLA	C10-C8-C7	2.84	127.05	112.13
13	A	823	CLA	C3D-C4D-ND	2.84	114.83	110.24
13	A	856	CLA	C4-C3-C2	-2.84	116.40	123.68
13	A	829	CLA	C3B-C4B-NB	2.83	113.14	110.52
13	A	815	CLA	O2D-CGD-CBD	2.83	116.30	111.27
13	A	850	CLA	CMD-C2D-C1D	2.83	129.70	124.71
13	A	863	CLA	C2D-C1D-ND	2.83	112.19	110.10
15	F	202	BCR	C11-C10-C9	2.83	131.35	127.31
13	J	101	CLA	C1D-CHD-C4C	-2.83	119.96	126.06
13	B	840	CLA	C2D-C1D-ND	2.83	112.19	110.10
13	B	843	CLA	C1D-CHD-C4C	-2.82	119.96	126.06
13	A	832	CLA	C3B-C4B-NB	2.82	113.14	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	839	CLA	C2D-C1D-ND	2.82	112.19	110.10
13	A	849	CLA	C4D-CHA-C1A	2.82	124.68	121.25
13	B	805	CLA	C2B-C1B-NB	2.82	112.12	110.23
15	A	862	BCR	C35-C13-C14	-2.82	118.97	122.92
15	B	802	BCR	C34-C9-C8	2.82	122.51	118.08
15	K	103	BCR	C36-C18-C17	-2.81	118.98	122.92
13	A	828	CLA	CHC-C1C-C2C	-2.81	118.91	126.73
13	B	844	CLA	C3D-C4D-ND	2.81	114.79	110.24
15	A	838	BCR	C35-C13-C14	-2.81	118.99	122.92
13	B	835	CLA	CHC-C1C-C2C	-2.81	118.93	126.73
13	A	855	CLA	CAC-C3C-C4C	2.81	128.45	124.81
13	B	847	CLA	C3B-C4B-NB	2.81	113.12	110.52
15	J	103	BCR	C15-C14-C13	2.80	131.31	127.31
13	A	820	CLA	CMC-C2C-C1C	2.80	129.31	125.04
13	A	825	CLA	CED-O2D-CGD	-2.80	109.61	115.94
13	B	808	CLA	C3B-C2B-C1B	-2.80	103.78	107.16
13	B	813	CLA	C6-C7-C8	2.80	124.96	115.92
13	B	817	CLA	C4D-CHA-C1A	2.80	124.65	121.25
13	A	856	CLA	C1C-C2C-C3C	-2.80	104.02	106.96
13	B	810	CLA	C1C-C2C-C3C	-2.79	104.02	106.96
13	A	809	CLA	C1D-CHD-C4C	-2.79	120.03	126.06
13	B	843	CLA	C1-O2A-CGA	2.79	123.77	116.44
13	B	820	CLA	CMC-C2C-C1C	2.79	129.29	125.04
13	B	832	CLA	C1D-CHD-C4C	-2.79	120.05	126.06
13	A	832	CLA	C9-C8-C7	2.79	121.38	111.29
13	A	856	CLA	CHC-C1C-C2C	-2.78	119.00	126.73
13	A	814	CLA	C5-C3-C2	-2.78	115.48	121.12
13	B	849	CLA	CHC-C1C-C2C	-2.78	119.00	126.73
13	B	847	CLA	CHD-C1D-ND	-2.78	121.90	124.45
13	J	102	CLA	C3D-C4D-ND	2.77	114.73	110.24
13	B	806	CLA	O1D-CGD-CBD	2.77	130.16	124.48
13	B	818	CLA	C2A-C1A-CHA	-2.77	119.01	123.86
13	A	809	CLA	O2D-CGD-CBD	2.77	116.19	111.27
15	A	840	BCR	C15-C16-C17	2.77	129.15	123.47
18	A	847	CL0	C6-C5-C3	-2.77	106.19	113.45
13	A	860	CLA	C11-C10-C8	2.77	124.88	115.92
13	A	806	CLA	C4A-NA-C1A	2.77	107.95	106.71
13	A	853	CLA	CMD-C2D-C1D	2.77	129.59	124.71
13	B	829	CLA	C4A-NA-C1A	-2.77	105.46	106.71
13	B	848	CLA	O2A-C1-C2	-2.77	101.37	108.64
13	A	826	CLA	CMC-C2C-C1C	2.77	129.25	125.04
13	B	833	CLA	C1-O2A-CGA	2.76	123.69	116.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	839	BCR	C19-C18-C17	2.76	123.18	118.94
13	A	810	CLA	C5-C3-C2	-2.76	115.53	121.12
13	A	826	CLA	C3B-C2B-C1B	-2.76	103.83	107.16
13	B	829	CLA	CHD-C4C-NC	-2.76	119.86	124.20
13	B	848	CLA	C3B-C4B-NB	2.76	113.07	110.52
13	B	821	CLA	CHC-C4B-NB	-2.76	121.34	124.26
13	A	829	CLA	C4A-NA-C1A	2.76	107.94	106.71
13	B	815	CLA	C3A-C2A-C1A	-2.75	97.21	101.34
13	J	102	CLA	CHC-C4B-NB	-2.75	121.34	124.26
13	B	807	CLA	CMC-C2C-C1C	2.75	129.23	125.04
13	A	853	CLA	C1D-CHD-C4C	-2.75	120.12	126.06
13	A	822	CLA	CMB-C2B-C3B	2.75	133.25	126.59
13	A	849	CLA	CMB-C2B-C3B	2.75	133.24	126.59
13	A	848	CLA	C3D-C2D-C1D	-2.75	102.08	105.83
13	B	842	CLA	C1D-CHD-C4C	-2.75	120.13	126.06
13	B	829	CLA	O2A-CGA-CBA	2.75	120.53	111.91
13	A	807	CLA	C4D-CHA-C1A	-2.75	117.91	121.25
13	A	833	CLA	CMC-C2C-C1C	2.75	129.22	125.04
13	B	828	CLA	CED-O2D-CGD	2.74	122.14	115.94
13	J	101	CLA	CMC-C2C-C1C	2.74	129.21	125.04
13	A	816	CLA	C6-C7-C8	2.74	124.78	115.92
13	A	818	CLA	C3D-C4D-ND	2.74	114.67	110.24
13	F	204	CLA	C9-C8-C7	2.74	121.21	111.29
13	A	819	CLA	CAC-C3C-C4C	2.74	128.36	124.81
13	A	829	CLA	CHB-C1B-NB	-2.74	121.36	124.26
13	J	101	CLA	C2D-C1D-ND	2.74	112.12	110.10
13	A	808	CLA	C1-C2-C3	-2.74	121.31	126.04
13	A	854	CLA	C3D-C4D-ND	2.74	114.66	110.24
13	A	832	CLA	O2D-CGD-O1D	-2.74	118.49	123.84
13	X	102	CLA	C2A-C1A-CHA	-2.73	119.08	123.86
13	K	101	CLA	CMC-C2C-C1C	2.73	129.20	125.04
13	B	820	CLA	CHD-C4C-C3C	-2.73	120.82	124.84
13	A	830	CLA	O2D-CGD-CBD	2.73	116.12	111.27
13	A	848	CLA	CBA-CAA-C2A	2.73	121.91	113.86
13	B	818	CLA	CBC-CAC-C3C	-2.73	104.91	112.43
13	A	856	CLA	C9-C8-C10	2.73	121.17	111.29
13	B	840	CLA	CHC-C1C-C2C	-2.73	119.16	126.73
13	B	813	CLA	C1-O2A-CGA	-2.72	109.30	116.44
13	A	818	CLA	CBC-CAC-C3C	-2.72	104.92	112.43
13	X	102	CLA	O2A-CGA-CBA	2.72	120.45	111.91
13	B	816	CLA	CHD-C4C-NC	-2.72	119.92	124.20
13	B	815	CLA	CAC-C3C-C4C	2.72	128.34	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	817	CLA	CHC-C4B-NB	-2.72	121.38	124.26
13	K	101	CLA	CHB-C4A-NA	2.72	128.27	124.51
15	A	838	BCR	C16-C15-C14	2.71	129.03	123.47
15	A	840	BCR	C34-C9-C8	2.71	122.35	118.08
18	A	847	CL0	C3A-C2A-C1A	-2.71	97.28	101.34
13	A	826	CLA	C1C-C2C-C3C	-2.71	104.11	106.96
13	F	204	CLA	C2A-C1A-CHA	-2.71	119.12	123.86
13	B	849	CLA	CMD-C2D-C1D	2.71	129.49	124.71
13	A	806	CLA	C2D-C1D-ND	2.71	112.10	110.10
13	A	833	CLA	C10-C8-C7	2.71	126.38	112.13
13	A	823	CLA	C9-C8-C7	2.71	121.10	111.29
13	B	833	CLA	O2A-C1-C2	-2.71	101.52	108.64
13	A	850	CLA	CHC-C1C-C2C	-2.71	119.21	126.73
13	A	821	CLA	CHB-C4A-NA	2.71	128.25	124.51
13	B	835	CLA	C6-C5-C3	2.71	120.55	113.45
13	A	829	CLA	C2D-C1D-ND	2.71	112.10	110.10
13	B	811	CLA	C9-C8-C7	2.71	121.09	111.29
13	A	848	CLA	O2A-C1-C2	-2.70	101.53	108.64
13	A	850	CLA	C1C-C2C-C3C	-2.70	104.11	106.96
13	A	830	CLA	CHB-C4A-NA	2.70	128.25	124.51
13	A	848	CLA	CAC-C3C-C4C	2.70	128.32	124.81
13	B	815	CLA	C3B-C2B-C1B	-2.70	103.90	107.16
13	A	854	CLA	CMD-C2D-C1D	2.70	129.47	124.71
13	J	101	CLA	O2A-CGA-CBA	2.70	120.38	111.91
13	A	860	CLA	O2A-CGA-O1A	-2.70	116.79	123.59
13	A	813	CLA	C3D-C2D-C1D	-2.70	102.15	105.83
12	A	801	LMT	C1-O1'-C1'	2.69	118.31	113.84
13	A	824	CLA	C4C-C3C-C2C	-2.69	102.97	106.90
13	B	847	CLA	O2D-CGD-CBD	2.69	116.05	111.27
13	A	833	CLA	C3B-C2B-C1B	-2.69	103.91	107.16
13	A	829	CLA	CMD-C2D-C1D	2.69	129.45	124.71
13	A	853	CLA	CED-O2D-CGD	2.69	122.02	115.94
13	B	829	CLA	CBC-CAC-C3C	-2.69	105.02	112.43
13	A	849	CLA	C11-C10-C8	2.69	124.60	115.92
13	A	811	CLA	CHB-C1B-NB	-2.69	121.41	124.26
13	A	859	CLA	C10-C8-C7	2.69	126.25	112.13
13	B	817	CLA	CHA-C1A-NA	-2.69	120.25	126.40
15	A	841	BCR	C35-C13-C14	-2.68	119.16	122.92
18	A	847	CL0	CHC-C1C-NC	-2.68	120.13	124.20
13	B	829	CLA	CMC-C2C-C1C	2.68	129.12	125.04
15	M	101	BCR	C7-C8-C9	-2.68	122.18	126.23
15	J	104	BCR	C10-C11-C12	2.68	131.58	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	839	CLA	O2A-CGA-CBA	2.68	120.32	111.91
13	B	836	CLA	C3B-C2B-C1B	-2.68	103.93	107.16
13	B	807	CLA	C3D-C2D-C1D	-2.68	102.18	105.83
13	B	846	CLA	CBA-CAA-C2A	2.68	121.77	113.86
15	B	802	BCR	C35-C13-C14	-2.68	119.17	122.92
13	A	814	CLA	C3D-C2D-C1D	-2.68	102.18	105.83
13	A	849	CLA	C1D-ND-C4D	-2.67	104.44	106.33
13	J	102	CLA	C3B-C2B-C1B	-2.67	103.94	107.16
13	A	821	CLA	CHA-C1A-NA	-2.67	120.29	126.40
13	B	808	CLA	CHA-C1A-NA	-2.67	120.29	126.40
13	B	830	CLA	CHC-C4B-NB	2.67	127.08	124.26
13	A	828	CLA	OBD-CAD-C3D	-2.67	122.10	128.52
13	A	863	CLA	C3B-C2B-C1B	-2.67	103.94	107.16
13	B	846	CLA	CAA-CBA-CGA	-2.67	105.46	113.25
15	B	822	BCR	C34-C9-C10	-2.67	119.19	122.92
15	A	838	BCR	C15-C16-C17	2.67	128.93	123.47
13	B	813	CLA	CAC-C3C-C4C	2.66	128.27	124.81
15	A	842	BCR	C34-C9-C8	2.66	122.27	118.08
15	K	103	BCR	C37-C22-C23	2.66	122.27	118.08
13	A	861	CLA	O2A-CGA-CBA	2.66	120.27	111.91
15	B	826	BCR	C34-C9-C10	-2.66	119.19	122.92
13	B	843	CLA	CHC-C1C-NC	-2.66	120.16	124.20
13	B	832	CLA	C4C-C3C-C2C	-2.66	103.02	106.90
13	B	835	CLA	CHC-C4B-NB	-2.66	121.44	124.26
13	B	815	CLA	CED-O2D-CGD	2.66	121.95	115.94
13	A	855	CLA	CED-O2D-CGD	-2.66	109.93	115.94
13	A	817	CLA	C6-C5-C3	-2.66	106.49	113.45
13	A	863	CLA	C9-C8-C7	2.66	120.91	111.29
13	B	841	CLA	O1D-CGD-CBD	-2.66	119.05	124.48
13	A	808	CLA	CHC-C1C-C2C	-2.66	119.36	126.73
13	B	838	CLA	CHC-C1C-C2C	-2.65	119.36	126.73
13	B	847	CLA	C9-C8-C10	2.65	120.89	111.29
13	B	807	CLA	C1D-ND-C4D	-2.65	104.45	106.33
13	A	814	CLA	CAA-CBA-CGA	-2.65	105.51	113.25
13	F	201	CLA	CMC-C2C-C1C	2.65	129.07	125.04
15	B	803	BCR	C24-C23-C22	-2.65	122.23	126.23
13	A	844	CLA	C6-C7-C8	2.65	124.48	115.92
13	A	823	CLA	O2A-C1-C2	-2.65	101.68	108.64
13	A	817	CLA	CED-O2D-CGD	2.64	121.92	115.94
13	A	848	CLA	CMA-C3A-C2A	-2.64	103.17	113.83
13	A	857	CLA	CMB-C2B-C1B	2.64	129.39	125.37
13	A	833	CLA	CHC-C1C-C2C	-2.64	119.39	126.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	831	CLA	CAC-C3C-C4C	2.64	128.24	124.81
13	F	201	CLA	CHC-C1C-C2C	-2.64	119.40	126.73
13	B	835	CLA	C7-C6-C5	-2.64	106.20	113.36
13	A	860	CLA	O2D-CGD-O1D	-2.64	118.68	123.84
13	A	855	CLA	C4C-C3C-C2C	-2.64	103.06	106.90
15	B	826	BCR	C34-C9-C8	2.64	122.23	118.08
13	A	812	CLA	CHC-C1C-C2C	-2.63	119.41	126.73
13	B	819	CLA	C2A-C1A-CHA	-2.63	119.25	123.86
13	B	818	CLA	CHC-C1C-C2C	-2.63	119.42	126.73
13	A	808	CLA	CBC-CAC-C3C	-2.63	105.17	112.43
13	A	808	CLA	CAC-C3C-C4C	2.63	128.22	124.81
13	B	847	CLA	C4-C3-C5	-2.63	110.85	115.27
13	A	807	CLA	C1-O2A-CGA	2.63	123.34	116.44
13	B	842	CLA	CMC-C2C-C1C	2.63	129.04	125.04
13	B	818	CLA	C11-C10-C8	2.63	124.41	115.92
13	A	859	CLA	CHC-C1C-C2C	-2.62	119.44	126.73
13	B	808	CLA	CAC-C3C-C4C	2.62	128.22	124.81
13	B	831	CLA	CAA-CBA-CGA	2.62	120.92	113.25
13	B	831	CLA	C9-C8-C10	2.62	120.79	111.29
13	B	848	CLA	CHD-C4C-C3C	-2.62	120.99	124.84
13	B	805	CLA	C3D-C4D-ND	2.62	114.48	110.24
13	B	821	CLA	C3D-C4D-ND	2.62	114.48	110.24
13	B	831	CLA	CHD-C1D-ND	-2.62	122.05	124.45
13	B	847	CLA	C1-O2A-CGA	-2.62	109.57	116.44
13	A	816	CLA	C3D-C4D-ND	2.62	114.48	110.24
21	X	101	SQD	O8-S-C6	2.62	109.91	105.74
13	B	834	CLA	CBA-CAA-C2A	-2.62	106.13	113.86
13	A	807	CLA	O2A-CGA-CBA	2.62	120.11	111.91
13	A	853	CLA	C1C-C2C-C3C	-2.62	104.21	106.96
15	F	203	BCR	C35-C13-C14	-2.61	119.26	122.92
13	B	809	CLA	C9-C8-C7	2.61	120.76	111.29
13	A	850	CLA	C1-O2A-CGA	2.61	123.30	116.44
13	A	848	CLA	C5-C3-C2	-2.61	115.84	121.12
13	A	817	CLA	CHC-C1C-C2C	-2.61	119.49	126.73
13	A	858	CLA	CHB-C1B-C2B	-2.61	119.87	127.24
15	B	802	BCR	C29-C28-C27	2.61	117.20	111.38
13	B	842	CLA	O2D-CGD-O1D	-2.60	118.75	123.84
13	B	833	CLA	C3B-C2B-C1B	-2.60	104.02	107.16
18	A	847	CL0	C1-O2A-CGA	2.60	123.27	116.44
13	A	853	CLA	CHB-C4A-NA	2.60	128.11	124.51
13	A	863	CLA	CMD-C2D-C1D	2.60	129.30	124.71
13	B	818	CLA	C4-C3-C5	2.60	119.64	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	848	CLA	C1D-ND-C4D	-2.60	104.49	106.33
15	B	824	BCR	C29-C28-C27	-2.60	105.58	111.38
13	A	827	CLA	O2A-CGA-CBA	2.59	120.05	111.91
13	B	807	CLA	CAC-C3C-C4C	-2.59	121.45	124.81
13	B	847	CLA	O2D-CGD-O1D	-2.59	118.77	123.84
13	A	857	CLA	CHC-C1C-C2C	-2.59	119.54	126.73
13	B	843	CLA	CHC-C1C-C2C	-2.59	119.54	126.73
13	A	828	CLA	O2A-CGA-O1A	-2.59	117.06	123.59
13	A	809	CLA	CBA-CAA-C2A	2.59	121.50	113.86
13	B	811	CLA	CHD-C1D-ND	-2.59	122.08	124.45
13	B	816	CLA	CMC-C2C-C1C	2.59	128.98	125.04
13	A	848	CLA	CMC-C2C-C1C	2.58	128.97	125.04
13	A	818	CLA	C1D-CHD-C4C	-2.58	120.49	126.06
13	A	825	CLA	CBB-CAB-C3B	-2.58	114.78	127.62
13	A	830	CLA	C9-C8-C7	2.58	120.64	111.29
13	A	826	CLA	C5-C3-C2	2.58	126.34	121.12
13	B	829	CLA	CMD-C2D-C1D	2.58	129.26	124.71
13	B	829	CLA	C9-C8-C7	2.58	120.62	111.29
13	A	850	CLA	O2D-CGD-O1D	-2.57	118.80	123.84
13	A	855	CLA	CHD-C1D-ND	-2.57	122.09	124.45
13	B	815	CLA	O2D-CGD-O1D	-2.57	118.81	123.84
15	B	825	BCR	C2-C1-C6	2.57	114.44	110.48
13	B	828	CLA	C11-C12-C13	-2.57	107.61	115.92
13	B	831	CLA	CMC-C2C-C1C	2.57	128.95	125.04
13	A	848	CLA	C3D-C4D-ND	2.57	114.39	110.24
13	J	101	CLA	C6-C5-C3	-2.57	106.72	113.45
15	B	802	BCR	C24-C23-C22	2.57	130.11	126.23
15	A	842	BCR	C20-C21-C22	2.57	130.97	127.31
13	A	813	CLA	CHB-C4A-NA	2.57	128.06	124.51
13	A	826	CLA	C9-C8-C7	2.56	120.58	111.29
13	B	821	CLA	CHB-C1B-NB	-2.56	121.54	124.26
15	A	838	BCR	C38-C26-C25	2.56	127.41	124.53
13	A	848	CLA	CAC-C3C-C2C	2.56	131.91	127.53
13	A	814	CLA	CHC-C1C-C2C	-2.56	119.62	126.73
15	A	841	BCR	C16-C15-C14	2.56	128.71	123.47
13	B	831	CLA	C2D-C1D-ND	2.56	111.99	110.10
15	A	838	BCR	C16-C17-C18	2.55	130.96	127.31
13	B	842	CLA	CMB-C2B-C3B	2.55	132.77	126.59
13	B	805	CLA	C1D-CHD-C4C	-2.55	120.55	126.06
13	A	827	CLA	C9-C8-C7	2.55	120.54	111.29
13	B	810	CLA	CBC-CAC-C3C	-2.55	105.39	112.43
13	B	815	CLA	O2A-CGA-CBA	2.55	119.92	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	849	CLA	C9-C8-C10	2.55	120.52	111.29
13	F	204	CLA	O2D-CGD-CBD	2.55	115.80	111.27
13	A	863	CLA	C3B-C4B-NB	2.55	112.88	110.52
13	B	836	CLA	C1D-ND-C4D	-2.55	104.53	106.33
13	B	818	CLA	C1-O2A-CGA	2.55	123.13	116.44
15	B	803	BCR	C23-C22-C21	2.54	122.84	118.94
13	A	860	CLA	CBC-CAC-C3C	-2.54	105.42	112.43
13	A	811	CLA	C4A-NA-C1A	2.54	107.85	106.71
13	A	813	CLA	C3D-C4D-ND	2.54	114.35	110.24
13	B	806	CLA	CBC-CAC-C3C	-2.54	105.42	112.43
13	A	818	CLA	C3A-C2A-C1A	-2.54	97.53	101.34
13	B	839	CLA	CBB-CAB-C3B	-2.54	114.98	127.62
13	B	821	CLA	C5-C3-C2	-2.54	115.98	121.12
13	A	809	CLA	O1A-CGA-CBA	-2.54	113.83	123.73
13	A	827	CLA	C6-C7-C8	2.54	124.12	115.92
15	A	862	BCR	C24-C23-C22	-2.54	122.40	126.23
13	A	817	CLA	O2A-C1-C2	-2.54	101.97	108.64
13	B	817	CLA	C9-C8-C7	2.53	120.47	111.29
13	F	201	CLA	CHD-C1D-ND	-2.53	122.12	124.45
13	B	836	CLA	C11-C12-C13	-2.53	107.73	115.92
12	B	852	LMT	O1'-C1'-C2'	2.53	112.26	108.30
13	A	818	CLA	O2A-CGA-CBA	2.53	119.86	111.91
13	A	823	CLA	C1C-C2C-C3C	-2.53	104.29	106.96
13	A	830	CLA	C11-C10-C8	2.53	124.11	115.92
13	B	810	CLA	C3D-C2D-C1D	-2.53	102.38	105.83
13	B	850	CLA	C4-C3-C5	2.53	119.52	115.27
13	A	809	CLA	CHC-C1C-C2C	-2.53	119.71	126.73
18	A	847	CL0	CHB-C1B-NB	-2.53	121.58	124.26
13	A	817	CLA	CHB-C1B-NB	-2.52	121.58	124.26
13	A	830	CLA	CHC-C1C-C2C	-2.52	119.72	126.73
13	J	101	CLA	CHD-C1D-ND	-2.52	122.14	124.45
13	A	813	CLA	C2D-C1D-ND	2.52	111.96	110.10
13	F	204	CLA	C2A-C3A-C4A	2.52	105.94	101.87
13	B	830	CLA	CHD-C4C-C3C	-2.52	121.14	124.84
13	B	840	CLA	CHD-C1D-ND	-2.52	122.14	124.45
13	A	811	CLA	O2A-C1-C2	2.51	115.24	108.64
13	B	829	CLA	CHC-C1C-C2C	-2.51	119.75	126.73
13	B	808	CLA	CHC-C1C-C2C	-2.51	119.75	126.73
13	J	101	CLA	C10-C8-C7	2.51	125.34	112.13
15	A	840	BCR	C36-C18-C17	-2.51	119.40	122.92
13	A	807	CLA	C1D-CHD-C4C	-2.51	120.64	126.06
13	K	104	CLA	C7-C6-C5	-2.51	106.54	113.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	806	CLA	CED-O2D-CGD	2.51	121.61	115.94
13	B	837	CLA	C9-C8-C7	2.51	120.37	111.29
13	A	859	CLA	C1D-CHD-C4C	-2.51	120.65	126.06
13	A	850	CLA	O2A-CGA-CBA	2.51	119.78	111.91
13	B	830	CLA	C4A-NA-C1A	-2.51	105.58	106.71
15	A	842	BCR	C15-C16-C17	2.51	128.61	123.47
13	B	845	CLA	CHD-C1D-ND	-2.51	122.15	124.45
13	A	823	CLA	CHC-C1C-C2C	-2.50	119.78	126.73
13	A	810	CLA	C4D-CHA-C1A	2.50	124.29	121.25
13	A	817	CLA	CMC-C2C-C1C	2.50	128.85	125.04
18	A	847	CL0	O2A-C1-C2	-2.50	102.06	108.64
13	A	849	CLA	CBC-CAC-C3C	-2.50	105.54	112.43
13	A	828	CLA	C4D-C3D-CAD	-2.50	105.15	108.10
13	B	830	CLA	C1C-C2C-C3C	-2.50	104.33	106.96
13	B	811	CLA	O2D-CGD-O1D	-2.50	118.95	123.84
13	A	857	CLA	CHD-C4C-C3C	-2.50	121.17	124.84
13	B	809	CLA	C3D-C2D-C1D	-2.50	102.42	105.83
13	A	820	CLA	C3B-C4B-NB	2.50	112.83	110.52
13	B	850	CLA	C5-C3-C2	-2.50	116.07	121.12
13	B	808	CLA	C3D-C2D-C1D	-2.50	102.43	105.83
13	A	818	CLA	C10-C8-C7	2.49	125.25	112.13
13	A	828	CLA	CBA-CAA-C2A	2.49	121.22	113.86
13	A	822	CLA	CBC-CAC-C3C	2.49	119.30	112.43
13	A	818	CLA	CHC-C1C-C2C	-2.49	119.81	126.73
15	J	104	BCR	C36-C18-C17	-2.49	119.43	122.92
13	A	857	CLA	C4A-NA-C1A	2.49	107.83	106.71
13	A	820	CLA	CHC-C1C-C2C	-2.49	119.81	126.73
15	B	825	BCR	C36-C18-C17	-2.49	119.44	122.92
13	A	831	CLA	C9-C8-C7	2.49	120.30	111.29
13	A	828	CLA	C2D-C1D-ND	2.49	111.94	110.10
13	A	844	CLA	C9-C8-C10	2.48	120.28	111.29
13	A	811	CLA	C4B-CHC-C1C	-2.48	120.45	126.34
13	B	850	CLA	C3B-C2B-C1B	-2.48	104.17	107.16
13	B	815	CLA	CMC-C2C-C1C	2.48	128.82	125.04
13	A	829	CLA	CBC-CAC-C3C	-2.48	105.59	112.43
13	B	831	CLA	C3A-C2A-C1A	-2.48	97.63	101.34
13	A	814	CLA	CHB-C4A-NA	2.48	127.94	124.51
13	A	863	CLA	C3D-C4D-ND	2.48	114.25	110.24
13	A	833	CLA	CMB-C2B-C3B	2.48	132.59	126.59
13	B	805	CLA	CHC-C1C-C2C	-2.48	119.85	126.73
13	K	104	CLA	CMC-C2C-C1C	2.48	128.81	125.04
13	A	858	CLA	CHC-C4B-NB	-2.47	121.64	124.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	818	CLA	CHB-C1B-C2B	-2.47	120.25	127.24
13	B	849	CLA	O1D-CGD-CBD	2.47	129.54	124.48
13	A	849	CLA	CHC-C1C-NC	-2.47	120.45	124.20
13	A	861	CLA	CHC-C4B-NB	-2.47	121.64	124.26
13	B	834	CLA	CHA-C1A-NA	-2.47	120.74	126.40
13	A	855	CLA	C9-C8-C7	2.47	120.24	111.29
13	A	849	CLA	CHC-C1C-C2C	-2.47	119.87	126.73
15	J	103	BCR	C16-C17-C18	2.47	130.83	127.31
15	A	862	BCR	C16-C15-C14	2.47	128.53	123.47
13	B	833	CLA	O2A-CGA-O1A	-2.47	117.36	123.59
13	B	848	CLA	CMB-C2B-C3B	2.47	132.56	126.59
13	B	830	CLA	C11-C10-C8	-2.46	107.95	115.92
13	B	843	CLA	CMB-C2B-C3B	2.46	132.55	126.59
13	A	848	CLA	CAA-C2A-C1A	2.46	120.05	111.97
13	A	815	CLA	C16-C17-C18	2.46	127.57	115.98
13	A	823	CLA	C2A-C1A-CHA	-2.46	119.56	123.86
13	A	822	CLA	CBB-CAB-C3B	-2.46	115.39	127.62
13	B	828	CLA	CMB-C2B-C3B	2.46	132.54	126.59
13	A	850	CLA	C9-C8-C7	2.46	120.19	111.29
13	B	805	CLA	C11-C12-C13	2.46	123.86	115.92
13	B	805	CLA	C1-C2-C3	-2.46	121.80	126.04
13	B	814	CLA	CHC-C1C-C2C	-2.45	119.92	126.73
13	A	809	CLA	CED-O2D-CGD	2.45	121.48	115.94
13	A	826	CLA	C4D-CHA-C1A	2.45	124.23	121.25
13	A	809	CLA	O2A-C1-C2	-2.45	102.20	108.64
13	B	840	CLA	C1D-CHD-C4C	-2.45	120.78	126.06
13	B	806	CLA	CHA-C1A-NA	-2.45	120.79	126.40
13	A	832	CLA	CGD-CBD-CAD	-2.45	102.80	110.73
13	B	817	CLA	C4C-C3C-C2C	-2.45	103.33	106.90
21	X	101	SQD	O5-C1-C2	-2.45	105.17	110.35
13	B	842	CLA	CHC-C4B-NB	-2.45	121.67	124.26
13	A	817	CLA	CBC-CAC-C3C	-2.44	105.69	112.43
13	B	836	CLA	CHC-C1C-C2C	-2.44	119.94	126.73
15	A	840	BCR	C24-C23-C22	-2.44	122.54	126.23
13	K	101	CLA	C2A-C1A-CHA	-2.44	119.59	123.86
13	B	832	CLA	C2A-C1A-CHA	-2.44	119.59	123.86
13	X	102	CLA	CHC-C1C-C2C	-2.44	119.95	126.73
13	A	857	CLA	C7-C6-C5	-2.44	106.73	113.36
13	A	853	CLA	CMB-C2B-C1B	2.44	129.08	125.37
13	B	836	CLA	O2A-CGA-O1A	-2.44	117.44	123.59
13	B	819	CLA	C1-O2A-CGA	2.44	122.84	116.44
13	A	828	CLA	CAA-C2A-C3A	2.44	119.45	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	848	CLA	C3A-C2A-C1A	2.44	104.99	101.34
13	A	809	CLA	CAA-C2A-C1A	-2.44	103.99	111.97
13	B	845	CLA	CAC-C3C-C2C	-2.44	123.36	127.53
13	A	859	CLA	CED-O2D-CGD	2.44	121.45	115.94
13	A	826	CLA	C7-C6-C5	-2.44	106.74	113.36
13	A	820	CLA	O2D-CGD-CBD	2.44	115.60	111.27
15	K	103	BCR	C19-C18-C17	2.44	122.68	118.94
13	B	807	CLA	C9-C8-C7	2.43	120.11	111.29
13	B	843	CLA	O2A-CGA-O1A	-2.43	117.45	123.59
13	A	848	CLA	C4A-NA-C1A	2.43	107.80	106.71
13	B	850	CLA	C3D-C4D-ND	2.43	114.17	110.24
13	B	808	CLA	C3B-C4B-NB	2.43	112.77	110.52
13	A	815	CLA	CAC-C3C-C4C	2.43	127.96	124.81
13	A	808	CLA	C4C-C3C-C2C	-2.42	103.36	106.90
13	A	850	CLA	O2A-CGA-O1A	-2.42	117.48	123.59
13	F	201	CLA	CAC-C3C-C2C	2.42	131.67	127.53
13	A	823	CLA	C9-C8-C10	2.42	120.06	111.29
13	J	102	CLA	O2A-CGA-CBA	2.42	119.50	111.91
13	B	847	CLA	CHA-C1A-NA	-2.42	120.87	126.40
13	B	806	CLA	CMD-C2D-C1D	2.41	128.97	124.71
13	B	836	CLA	C3D-C4D-ND	2.41	114.14	110.24
13	A	808	CLA	C10-C8-C7	2.41	124.81	112.13
13	A	858	CLA	O2A-CGA-CBA	2.41	119.47	111.91
13	A	805	CLA	C2D-C1D-ND	2.41	111.88	110.10
15	F	206	BCR	C34-C9-C8	2.41	121.87	118.08
15	B	825	BCR	C32-C1-C2	-2.41	99.27	108.91
13	B	807	CLA	C2A-C1A-CHA	-2.41	119.65	123.86
13	B	844	CLA	C2A-C1A-CHA	-2.41	119.65	123.86
13	B	810	CLA	CGD-CBD-CAD	-2.41	102.94	110.73
13	B	841	CLA	CHB-C1B-C2B	-2.41	120.44	127.24
13	F	204	CLA	C2D-C1D-ND	2.40	111.88	110.10
13	B	820	CLA	C3D-C4D-ND	2.40	114.13	110.24
15	K	103	BCR	C7-C8-C9	2.40	129.87	126.23
13	A	832	CLA	C2D-C1D-ND	2.40	111.88	110.10
13	A	850	CLA	CHA-C1A-NA	-2.40	120.90	126.40
13	B	832	CLA	C3D-C4D-CHA	-2.40	107.23	112.72
13	B	848	CLA	CMD-C2D-C1D	2.40	128.94	124.71
13	A	826	CLA	C14-C13-C15	-2.40	102.60	111.29
15	F	203	BCR	C24-C23-C22	-2.40	122.61	126.23
13	B	819	CLA	O2A-CGA-CBA	2.40	119.44	111.91
13	B	816	CLA	CBC-CAC-C3C	-2.40	105.82	112.43
15	B	826	BCR	C36-C18-C17	-2.40	119.56	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	805	CLA	CMB-C2B-C3B	2.40	132.40	126.59
13	B	844	CLA	CAC-C3C-C4C	2.40	127.92	124.81
13	B	829	CLA	C3D-C2D-C1D	-2.40	102.56	105.83
13	A	858	CLA	CHD-C1D-ND	-2.39	122.26	124.45
13	A	858	CLA	C4-C3-C5	2.39	119.29	115.27
13	A	851	CLA	CHD-C1D-ND	-2.39	122.26	124.45
13	A	809	CLA	C9-C8-C10	2.39	119.94	111.29
13	B	846	CLA	O2A-CGA-CBA	2.39	119.40	111.91
13	B	821	CLA	C9-C8-C10	2.39	119.94	111.29
13	A	824	CLA	CMB-C2B-C1B	2.39	129.00	125.37
13	A	863	CLA	C7-C6-C5	-2.39	106.88	113.36
13	B	813	CLA	CHA-C1A-NA	-2.39	120.94	126.40
13	B	850	CLA	CAC-C3C-C4C	2.38	127.90	124.81
15	A	841	BCR	C2-C1-C6	2.38	114.15	110.48
13	A	853	CLA	O2A-CGA-CBA	2.38	119.39	111.91
13	A	820	CLA	C6-C5-C3	-2.38	107.20	113.45
13	A	855	CLA	C4-C3-C5	2.38	119.28	115.27
15	A	841	BCR	C15-C16-C17	2.38	128.35	123.47
13	B	841	CLA	CGD-CBD-CAD	-2.38	103.02	110.73
15	J	103	BCR	C32-C1-C6	-2.38	106.44	110.30
13	B	829	CLA	C4-C3-C5	2.38	119.27	115.27
18	A	847	CL0	CMC-C2C-C1C	2.38	128.66	125.04
13	B	830	CLA	O2A-C1-C2	-2.38	102.39	108.64
13	B	809	CLA	CAC-C3C-C4C	2.38	127.89	124.81
13	B	807	CLA	CAC-C3C-C2C	2.38	131.59	127.53
13	A	825	CLA	C9-C8-C7	2.37	119.89	111.29
13	B	844	CLA	C7-C6-C5	-2.37	106.91	113.36
13	B	842	CLA	CHB-C1B-C2B	-2.37	120.53	127.24
15	A	862	BCR	C27-C26-C25	-2.37	119.29	122.73
13	B	809	CLA	CHD-C1D-ND	-2.37	122.28	124.45
13	B	832	CLA	CMA-C3A-C4A	2.37	118.14	111.77
13	A	814	CLA	C3B-C4B-NB	2.37	112.71	110.52
13	A	822	CLA	C2A-C1A-CHA	-2.37	119.72	123.86
13	A	818	CLA	C4-C3-C5	2.36	119.25	115.27
13	A	816	CLA	C2A-C1A-CHA	-2.36	119.72	123.86
13	B	831	CLA	C1D-CHD-C4C	-2.36	120.96	126.06
13	A	813	CLA	CHD-C4C-NC	-2.36	120.48	124.20
13	A	811	CLA	C6-C5-C3	-2.36	107.26	113.45
13	A	831	CLA	CHC-C1C-NC	-2.36	120.63	124.20
15	K	103	BCR	C20-C21-C22	2.36	130.67	127.31
13	A	820	CLA	C6-C7-C8	2.36	123.54	115.92
13	A	816	CLA	CMC-C2C-C1C	2.36	128.63	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	826	CLA	CMA-C3A-C4A	-2.36	105.44	111.77
13	B	805	CLA	CBA-CAA-C2A	-2.36	106.91	113.86
13	B	810	CLA	CMD-C2D-C1D	2.35	128.86	124.71
13	B	833	CLA	C2A-C1A-CHA	-2.35	119.75	123.86
13	B	846	CLA	C2A-C1A-CHA	-2.35	119.75	123.86
13	B	837	CLA	O2D-CGD-CBD	2.35	115.45	111.27
15	J	103	BCR	C15-C16-C17	2.35	128.29	123.47
13	A	861	CLA	C1-O2A-CGA	2.35	122.61	116.44
15	J	103	BCR	C11-C10-C9	2.35	130.66	127.31
13	A	809	CLA	C3D-C4D-ND	2.35	114.04	110.24
13	B	816	CLA	C4D-CHA-C1A	-2.35	118.39	121.25
13	A	823	CLA	O2A-CGA-O1A	-2.35	117.66	123.59
13	A	812	CLA	C4-C3-C5	2.35	119.22	115.27
13	A	824	CLA	CHB-C1B-C2B	-2.35	120.60	127.24
13	B	809	CLA	C2A-C1A-CHA	-2.35	119.75	123.86
15	B	824	BCR	C35-C13-C14	-2.35	119.63	122.92
13	B	848	CLA	CHA-C1A-NA	-2.35	121.02	126.40
15	M	101	BCR	C35-C13-C14	-2.35	119.63	122.92
13	A	854	CLA	C3D-C2D-C1D	-2.35	102.63	105.83
16	A	843	LHG	C5-O7-C7	2.35	123.57	117.79
13	B	843	CLA	O2A-CGA-CBA	2.35	119.27	111.91
13	B	806	CLA	C3D-C4D-ND	2.35	114.03	110.24
13	A	813	CLA	C9-C8-C7	2.34	119.78	111.29
13	B	843	CLA	CHB-C1B-C2B	-2.34	120.62	127.24
13	B	817	CLA	O2A-CGA-CBA	2.34	119.26	111.91
16	A	852	LHG	O4-P-O5	2.34	123.82	112.24
13	B	845	CLA	C2A-C1A-CHA	-2.34	119.76	123.86
13	A	860	CLA	C2A-C1A-CHA	-2.34	119.77	123.86
13	A	858	CLA	CMC-C2C-C1C	2.34	128.60	125.04
13	A	806	CLA	CED-O2D-CGD	2.34	121.23	115.94
13	B	808	CLA	C3A-C2A-C1A	-2.34	97.84	101.34
13	A	832	CLA	C3B-C2B-C1B	-2.34	104.34	107.16
13	A	858	CLA	C9-C8-C10	2.34	119.75	111.29
13	A	849	CLA	C6-C7-C8	2.34	123.47	115.92
13	F	204	CLA	C1D-CHD-C4C	-2.34	121.02	126.06
13	B	833	CLA	CBC-CAC-C3C	-2.33	106.00	112.43
13	A	810	CLA	C3D-C4D-ND	2.33	114.01	110.24
13	B	844	CLA	C3D-C2D-C1D	-2.33	102.65	105.83
13	A	855	CLA	CBB-CAB-C3B	-2.33	116.03	127.62
13	A	849	CLA	C3B-C4B-NB	2.33	112.68	110.52
13	B	811	CLA	C2A-C1A-CHA	-2.33	119.79	123.86
13	A	853	CLA	O2A-CGA-O1A	-2.33	117.72	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	840	CLA	CHB-C1B-NB	-2.33	121.79	124.26
15	A	842	BCR	C36-C18-C17	-2.33	119.67	122.92
13	A	814	CLA	CMB-C2B-C1B	2.32	128.91	125.37
13	B	807	CLA	C1-O2A-CGA	2.32	122.54	116.44
18	A	847	CL0	C1D-ND-C4D	-2.32	104.68	106.33
13	A	822	CLA	C1C-C2C-C3C	-2.32	104.51	106.96
15	A	842	BCR	C30-C25-C24	-2.32	109.20	115.78
13	A	812	CLA	C9-C8-C7	2.32	119.70	111.29
13	A	820	CLA	C1D-ND-C4D	-2.32	104.69	106.33
13	A	851	CLA	C11-C10-C8	-2.32	108.42	115.92
13	B	840	CLA	O2A-CGA-CBA	2.32	119.19	111.91
13	A	807	CLA	C4-C3-C5	2.32	119.17	115.27
13	B	806	CLA	C1C-C2C-C3C	-2.32	104.52	106.96
13	A	860	CLA	C4D-CHA-C1A	-2.32	118.43	121.25
13	B	830	CLA	O2A-CGA-O1A	-2.32	117.74	123.59
13	A	806	CLA	CHB-C1B-C2B	-2.32	120.69	127.24
13	B	809	CLA	C1-C2-C3	-2.32	122.03	126.04
13	A	863	CLA	CHB-C4A-NA	2.32	127.72	124.51
15	F	203	BCR	C31-C1-C6	-2.32	106.54	110.30
13	B	808	CLA	C6-C5-C3	-2.32	107.38	113.45
13	A	831	CLA	CHB-C1B-C2B	-2.31	120.70	127.24
13	A	816	CLA	CMA-C3A-C2A	-2.31	104.50	113.83
13	B	834	CLA	CHC-C1C-C2C	-2.31	120.31	126.73
15	B	825	BCR	C34-C9-C8	2.31	121.72	118.08
13	A	861	CLA	CAC-C3C-C4C	2.31	127.81	124.81
13	A	817	CLA	C5-C3-C2	-2.31	116.44	121.12
13	B	845	CLA	O2A-C1-C2	2.31	114.71	108.64
13	B	805	CLA	C1C-C2C-C3C	-2.31	104.53	106.96
13	B	805	CLA	C3B-C2B-C1B	-2.31	104.37	107.16
13	A	829	CLA	C3D-C4D-ND	2.31	113.97	110.24
21	X	101	SQD	O9-S-O7	2.31	121.94	113.95
13	B	849	CLA	CHA-C1A-NA	-2.31	121.11	126.40
13	B	835	CLA	C9-C8-C7	2.31	119.64	111.29
13	B	818	CLA	C2D-C1D-ND	2.30	111.80	110.10
13	B	813	CLA	C1D-ND-C4D	2.30	107.97	106.33
13	B	820	CLA	CBC-CAC-C3C	-2.30	106.09	112.43
13	A	817	CLA	C10-C8-C7	2.30	124.22	112.13
15	B	825	BCR	C16-C17-C18	2.30	130.59	127.31
13	A	844	CLA	CAC-C3C-C4C	2.30	127.79	124.81
13	A	833	CLA	C5-C3-C2	2.30	125.77	121.12
13	A	824	CLA	C3A-C2A-C1A	-2.29	97.90	101.34
13	B	813	CLA	C11-C10-C8	2.29	123.33	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	832	CLA	C3D-C2D-C1D	-2.29	102.70	105.83
13	A	830	CLA	C4-C3-C5	2.29	119.13	115.27
15	A	841	BCR	C7-C8-C9	2.29	129.70	126.23
13	B	844	CLA	C4C-C3C-C2C	-2.29	103.56	106.90
13	A	830	CLA	CHB-C1B-C2B	-2.29	120.78	127.24
13	B	830	CLA	C3B-C2B-C1B	-2.29	104.40	107.16
13	B	834	CLA	CAC-C3C-C4C	2.29	127.78	124.81
13	A	811	CLA	OBD-CAD-C3D	-2.29	123.02	128.52
13	B	811	CLA	C1D-CHD-C4C	-2.29	121.12	126.06
13	A	814	CLA	O2A-C1-C2	-2.29	102.62	108.64
15	M	101	BCR	C34-C9-C8	2.29	121.68	118.08
13	A	816	CLA	C1-C2-C3	-2.29	122.09	126.04
13	X	102	CLA	O2D-CGD-CBD	2.29	115.33	111.27
13	B	817	CLA	C9-C8-C10	2.28	119.56	111.29
13	K	101	CLA	O2A-CGA-CBA	2.28	119.08	111.91
13	B	835	CLA	OBD-CAD-C3D	-2.28	123.02	128.52
13	A	828	CLA	C4-C3-C5	2.28	119.11	115.27
13	A	863	CLA	CHC-C1C-NC	-2.28	120.74	124.20
15	B	802	BCR	C2-C1-C6	2.28	113.99	110.48
13	B	846	CLA	CAC-C3C-C4C	2.28	127.77	124.81
13	A	817	CLA	CMB-C2B-C1B	2.28	128.84	125.37
13	A	810	CLA	CAA-CBA-CGA	-2.28	106.59	113.25
13	B	814	CLA	C11-C10-C8	2.28	123.29	115.92
13	B	831	CLA	CBB-CAB-C3B	-2.28	116.28	127.62
13	B	847	CLA	C3A-C2A-C1A	-2.28	97.93	101.34
13	A	810	CLA	CMA-C3A-C4A	-2.28	105.65	111.77
13	A	848	CLA	CMB-C2B-C3B	2.28	132.10	126.59
13	A	855	CLA	C3B-C4B-NB	2.28	112.63	110.52
13	B	820	CLA	O2A-CGA-CBA	2.27	119.05	111.91
13	A	851	CLA	O2D-CGD-O1D	-2.27	119.39	123.84
13	B	816	CLA	C4-C3-C5	2.27	119.10	115.27
13	A	818	CLA	C2A-C1A-CHA	-2.27	119.88	123.86
13	B	848	CLA	CHC-C1C-C2C	-2.27	120.42	126.73
13	B	807	CLA	C9-C8-C10	2.27	119.52	111.29
13	B	848	CLA	C3D-C4D-ND	2.27	113.91	110.24
15	J	103	BCR	C29-C30-C25	2.27	113.98	110.48
13	B	806	CLA	O2D-CGD-CBD	2.27	115.30	111.27
13	A	817	CLA	CBA-CAA-C2A	-2.27	107.17	113.86
13	B	845	CLA	C10-C8-C7	2.27	124.06	112.13
13	J	102	CLA	C2A-C1A-CHA	-2.27	119.89	123.86
13	A	828	CLA	CMD-C2D-C1D	2.27	128.71	124.71
13	A	844	CLA	CHC-C1C-C2C	-2.27	120.43	126.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	839	BCR	C35-C13-C12	2.27	121.65	118.08
13	A	860	CLA	C6-C5-C3	-2.27	107.51	113.45
13	A	857	CLA	CAC-C3C-C4C	2.27	127.75	124.81
13	A	851	CLA	O2D-CGD-CBD	2.27	115.29	111.27
13	J	101	CLA	OBD-CAD-C3D	-2.27	123.07	128.52
13	A	827	CLA	CMC-C2C-C1C	2.27	128.49	125.04
13	B	839	CLA	O2D-CGD-O1D	-2.26	119.41	123.84
13	B	831	CLA	O2A-C1-C2	2.26	114.58	108.64
13	A	859	CLA	O2A-CGA-CBA	2.26	119.00	111.91
13	B	837	CLA	CBC-CAC-C3C	-2.26	106.20	112.43
15	M	101	BCR	C36-C18-C17	-2.26	119.76	122.92
13	A	811	CLA	C2D-C1D-ND	2.26	111.77	110.10
13	B	830	CLA	CHC-C1C-C2C	-2.26	120.45	126.73
13	A	861	CLA	CED-O2D-CGD	2.26	121.05	115.94
13	B	840	CLA	C4-C3-C5	2.26	119.07	115.27
13	B	834	CLA	CBB-CAB-C3B	-2.26	116.39	127.62
13	A	817	CLA	CHB-C1B-C2B	-2.26	120.86	127.24
13	B	835	CLA	CHB-C1B-NB	-2.26	121.87	124.26
18	A	847	CL0	C9-C8-C10	2.25	119.45	111.29
13	A	810	CLA	CHA-C1A-NA	-2.25	121.24	126.40
13	A	859	CLA	C9-C8-C10	2.25	119.45	111.29
13	A	844	CLA	C2D-C1D-ND	2.25	111.76	110.10
18	A	847	CL0	CMB-C2B-C3B	2.25	132.04	126.59
13	A	807	CLA	C9-C8-C10	2.25	119.45	111.29
13	B	842	CLA	C10-C8-C7	2.25	123.96	112.13
12	A	834	LMT	O1'-C1'-C2'	2.25	111.81	108.30
13	A	823	CLA	CMB-C2B-C3B	2.25	132.03	126.59
13	B	811	CLA	CAA-C2A-C1A	-2.25	104.61	111.97
13	B	847	CLA	CHC-C1C-C2C	-2.25	120.49	126.73
13	A	826	CLA	C10-C8-C7	2.25	123.94	112.13
15	B	803	BCR	C21-C20-C19	2.25	130.23	123.22
13	B	819	CLA	CAA-C2A-C1A	2.25	119.34	111.97
15	A	839	BCR	C20-C21-C22	2.25	130.52	127.31
13	A	814	CLA	C6-C5-C3	-2.25	107.57	113.45
13	A	822	CLA	C2D-C1D-ND	2.25	111.76	110.10
13	A	824	CLA	O2D-CGD-CBD	2.24	115.25	111.27
13	A	820	CLA	C7-C6-C5	-2.24	107.27	113.36
15	B	824	BCR	C7-C8-C9	-2.24	122.85	126.23
15	J	103	BCR	C34-C9-C10	-2.24	119.79	122.92
13	B	835	CLA	O2A-CGA-CBA	2.24	118.93	111.91
13	A	850	CLA	CMC-C2C-C1C	2.24	128.45	125.04
13	A	813	CLA	CBA-CAA-C2A	-2.24	107.26	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	845	CLA	CBA-CAA-C2A	2.24	120.47	113.86
15	A	840	BCR	C16-C15-C14	2.24	128.06	123.47
15	A	840	BCR	C37-C22-C21	-2.24	119.79	122.92
15	F	202	BCR	C15-C14-C13	2.23	130.50	127.31
13	A	851	CLA	C1C-C2C-C3C	-2.23	104.61	106.96
13	F	201	CLA	CBB-CAB-C3B	-2.23	116.51	127.62
18	A	847	CL0	C4C-C3C-C2C	-2.23	103.64	106.90
13	B	840	CLA	CHC-C4B-NB	-2.23	121.89	124.26
13	A	833	CLA	O2A-CGA-O1A	-2.23	117.96	123.59
13	A	808	CLA	C1D-CHD-C4C	-2.23	121.24	126.06
13	A	855	CLA	OBD-CAD-C3D	-2.23	123.15	128.52
13	A	829	CLA	CHC-C1C-C2C	-2.23	120.54	126.73
13	A	828	CLA	CAA-CBA-CGA	-2.23	106.74	113.25
15	A	838	BCR	C30-C25-C26	-2.23	119.48	122.61
13	B	806	CLA	C2B-C1B-NB	2.23	111.72	110.23
13	J	102	CLA	CHB-C1B-C2B	-2.23	120.95	127.24
13	A	808	CLA	C9-C8-C10	2.23	119.35	111.29
13	B	818	CLA	C10-C8-C7	2.22	123.83	112.13
13	A	858	CLA	C1D-CHD-C4C	-2.22	121.26	126.06
13	K	101	CLA	C5-C3-C2	-2.22	116.62	121.12
13	A	808	CLA	CHB-C1B-C2B	-2.22	120.96	127.24
13	A	850	CLA	CHC-C4B-NB	-2.22	121.91	124.26
13	A	861	CLA	C2A-C1A-CHA	-2.22	119.97	123.86
13	B	828	CLA	C9-C8-C7	2.22	119.34	111.29
13	A	809	CLA	CHA-C1A-NA	-2.22	121.31	126.40
13	B	848	CLA	C9-C8-C7	2.22	119.33	111.29
13	J	102	CLA	C4-C3-C5	2.22	119.00	115.27
13	A	824	CLA	O2D-CGD-O1D	-2.22	119.50	123.84
15	B	826	BCR	C12-C13-C14	2.22	122.34	118.94
13	A	860	CLA	CMC-C2C-C1C	2.22	128.42	125.04
13	A	858	CLA	O2A-CGA-O1A	-2.22	118.00	123.59
13	A	827	CLA	CMB-C2B-C3B	2.22	131.96	126.59
13	B	835	CLA	C2A-C1A-CHA	-2.22	119.98	123.86
15	B	824	BCR	C20-C21-C22	2.22	130.47	127.31
13	A	810	CLA	CHC-C4B-NB	-2.22	121.91	124.26
13	B	835	CLA	C5-C3-C2	-2.21	116.64	121.12
13	B	810	CLA	CHC-C1C-C2C	-2.21	120.58	126.73
15	F	202	BCR	C34-C9-C8	2.21	121.56	118.08
13	A	861	CLA	O2A-CGA-O1A	-2.21	118.01	123.59
13	B	813	CLA	CMC-C2C-C1C	2.21	128.41	125.04
13	B	848	CLA	CHD-C1D-ND	-2.21	122.42	124.45
13	A	844	CLA	C7-C6-C5	2.21	119.36	113.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	828	CLA	C1-C2-C3	-2.21	122.22	126.04
15	A	841	BCR	C37-C22-C23	2.21	121.56	118.08
13	A	815	CLA	CHC-C1C-C2C	-2.21	120.60	126.73
13	A	806	CLA	CMB-C2B-C3B	2.21	131.93	126.59
13	J	101	CLA	CAC-C3C-C2C	2.21	131.30	127.53
13	A	817	CLA	C9-C8-C7	2.21	119.28	111.29
13	A	832	CLA	CHB-C1B-C2B	-2.21	121.00	127.24
13	A	860	CLA	CHB-C1B-C2B	-2.21	121.00	127.24
13	A	855	CLA	CHB-C4A-NA	2.21	127.56	124.51
13	B	840	CLA	CHA-C4D-ND	-2.21	127.88	132.50
13	B	850	CLA	C9-C8-C10	2.21	119.28	111.29
13	A	855	CLA	CMB-C2B-C3B	2.20	131.93	126.59
13	A	861	CLA	CBA-CAA-C2A	-2.20	107.36	113.86
13	X	102	CLA	CMC-C2C-C1C	2.20	128.39	125.04
13	A	849	CLA	O2A-CGA-CBA	2.20	118.82	111.91
13	A	806	CLA	C9-C8-C10	2.20	119.27	111.29
13	B	805	CLA	C9-C8-C7	2.20	119.27	111.29
13	B	829	CLA	CAA-CBA-CGA	-2.20	106.83	113.25
13	B	806	CLA	C6-C5-C3	-2.20	107.69	113.45
13	A	818	CLA	O2D-CGD-CBD	2.20	115.18	111.27
13	A	829	CLA	CMA-C3A-C2A	-2.20	104.96	113.83
13	A	832	CLA	CHC-C4B-NB	-2.20	121.93	124.26
13	A	850	CLA	CMB-C2B-C3B	2.20	131.91	126.59
13	A	813	CLA	C6-C5-C3	-2.20	107.69	113.45
13	A	829	CLA	CHC-C1C-NC	-2.20	120.87	124.20
13	A	848	CLA	C1D-CHD-C4C	-2.20	121.32	126.06
13	B	830	CLA	CBB-CAB-C3B	-2.20	116.69	127.62
13	A	827	CLA	C7-C6-C5	-2.20	107.40	113.36
13	A	853	CLA	CMA-C3A-C4A	-2.20	105.87	111.77
13	B	843	CLA	C3B-C4B-NB	2.19	112.55	110.52
13	B	844	CLA	C3B-C2B-C1B	-2.19	104.51	107.16
13	A	863	CLA	C11-C10-C8	2.19	123.01	115.92
13	B	806	CLA	C3B-C2B-C1B	-2.19	104.52	107.16
13	A	818	CLA	C1-C2-C3	-2.19	122.25	126.04
12	K	102	LMT	C1'-O5'-C5'	2.19	117.99	113.69
13	A	863	CLA	C1-C2-C3	-2.19	122.26	126.04
13	A	812	CLA	O2A-CGA-CBA	2.19	118.78	111.91
13	B	813	CLA	CAC-C3C-C2C	2.19	131.27	127.53
13	B	820	CLA	O2A-CGA-O1A	-2.19	118.07	123.59
13	A	815	CLA	O2A-C1-C2	-2.19	102.89	108.64
13	J	102	CLA	C1-C2-C3	-2.18	122.26	126.04
13	J	101	CLA	CHB-C1B-C2B	-2.18	121.07	127.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	856	CLA	O2A-CGA-CBA	2.18	118.76	111.91
13	A	832	CLA	C3D-C4D-ND	2.18	113.77	110.24
13	B	808	CLA	C4D-CHA-C1A	2.18	123.90	121.25
13	A	830	CLA	CAC-C3C-C2C	2.18	131.26	127.53
13	A	828	CLA	C2A-C1A-CHA	-2.18	120.05	123.86
13	B	835	CLA	C10-C8-C7	2.18	123.59	112.13
13	A	805	CLA	O2D-CGD-O1D	-2.18	119.58	123.84
13	X	102	CLA	C9-C8-C7	2.18	119.18	111.29
13	A	806	CLA	O1D-CGD-CBD	2.18	128.94	124.48
13	B	814	CLA	CAA-CBA-CGA	2.18	119.62	113.25
13	B	820	CLA	CMA-C3A-C2A	-2.18	105.04	113.83
13	B	808	CLA	CHD-C1D-ND	-2.18	122.45	124.45
13	A	820	CLA	O2A-CGA-O1A	-2.18	118.10	123.59
13	B	832	CLA	CBC-CAC-C3C	2.18	118.43	112.43
13	B	818	CLA	C9-C8-C7	2.18	119.17	111.29
13	B	833	CLA	CHC-C1C-C2C	-2.18	120.69	126.73
13	B	841	CLA	CBB-CAB-C3B	-2.18	116.80	127.62
13	X	102	CLA	C3D-C4D-ND	2.17	113.75	110.24
13	A	828	CLA	CHB-C1B-NB	-2.17	121.96	124.26
13	A	819	CLA	C1-O2A-CGA	2.17	122.14	116.44
13	B	810	CLA	C1-O2A-CGA	2.17	122.14	116.44
13	A	820	CLA	C3D-C4D-ND	2.17	113.75	110.24
13	B	810	CLA	CHA-C1A-NA	-2.17	121.43	126.40
12	A	835	LMT	O1'-C1-C2	2.17	117.17	109.56
13	B	845	CLA	C9-C8-C7	2.17	119.15	111.29
13	A	810	CLA	O2A-CGA-O1A	-2.17	118.12	123.59
13	A	822	CLA	CHD-C1D-ND	-2.17	122.46	124.45
13	A	844	CLA	C4-C3-C5	2.17	118.92	115.27
13	A	824	CLA	CHC-C1C-C2C	-2.17	120.71	126.73
13	A	812	CLA	C4D-CHA-C1A	-2.17	118.61	121.25
13	K	104	CLA	CHB-C1B-C2B	-2.17	121.11	127.24
13	B	832	CLA	C2D-C1D-ND	2.17	111.70	110.10
13	B	832	CLA	O2A-CGA-CBA	2.17	118.70	111.91
12	A	803	LMT	C1-O1'-C1'	2.16	117.43	113.84
13	A	807	CLA	CBC-CAC-C3C	-2.16	106.47	112.43
13	B	842	CLA	C11-C10-C8	2.16	122.91	115.92
13	F	201	CLA	C1-C2-C3	-2.16	122.30	126.04
13	B	848	CLA	O1D-CGD-CBD	2.16	128.91	124.48
15	A	841	BCR	C35-C13-C12	2.16	121.48	118.08
15	B	826	BCR	C7-C6-C5	-2.16	116.23	121.46
13	B	831	CLA	C6-C7-C8	2.16	122.90	115.92
15	J	104	BCR	C23-C22-C21	2.16	122.25	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	858	CLA	CMD-C2D-C1D	2.16	128.52	124.71
13	B	832	CLA	C4-C3-C5	2.16	118.90	115.27
13	A	856	CLA	C9-C8-C7	2.16	119.10	111.29
13	A	850	CLA	C5-C3-C2	-2.16	116.75	121.12
15	F	202	BCR	C34-C9-C10	-2.16	119.90	122.92
13	B	814	CLA	C9-C8-C10	2.16	119.10	111.29
13	A	854	CLA	CHB-C1B-C2B	-2.16	121.15	127.24
13	A	851	CLA	CHB-C4A-NA	2.16	127.49	124.51
13	B	846	CLA	CBC-CAC-C3C	-2.15	106.49	112.43
13	A	820	CLA	C9-C8-C7	2.15	119.09	111.29
13	A	809	CLA	O2D-CGD-O1D	-2.15	119.63	123.84
13	F	201	CLA	CHB-C1B-C2B	-2.15	121.16	127.24
13	A	806	CLA	C4-C3-C5	2.15	118.88	115.27
13	A	815	CLA	O2A-CGA-O1A	-2.15	118.17	123.59
13	A	859	CLA	C2A-C1A-CHA	-2.14	120.11	123.86
13	A	825	CLA	C9-C8-C10	2.14	119.05	111.29
13	A	856	CLA	CMC-C2C-C1C	2.14	128.30	125.04
13	A	810	CLA	CMD-C2D-C1D	2.14	128.49	124.71
13	B	810	CLA	CED-O2D-CGD	2.14	120.78	115.94
13	A	815	CLA	C6-C7-C8	2.14	122.84	115.92
13	B	814	CLA	C1-O2A-CGA	2.14	122.06	116.44
13	B	814	CLA	C9-C8-C7	2.14	119.05	111.29
13	B	840	CLA	CBA-CAA-C2A	-2.14	107.55	113.86
13	B	820	CLA	CHC-C1C-C2C	-2.14	120.79	126.73
13	A	856	CLA	C6-C7-C8	2.14	122.83	115.92
13	A	816	CLA	CHC-C4B-NB	-2.14	122.00	124.26
13	J	102	CLA	C4D-C3D-CAD	2.13	110.61	108.10
13	A	851	CLA	CAA-CBA-CGA	-2.13	107.02	113.25
18	A	847	CL0	C2D-C1D-ND	2.13	111.67	110.10
13	B	832	CLA	C9-C8-C7	2.13	119.01	111.29
13	B	846	CLA	CHC-C1C-C2C	-2.13	120.81	126.73
13	B	815	CLA	C4A-NA-C1A	2.13	107.66	106.71
13	B	816	CLA	O2A-CGA-CBA	2.13	118.59	111.91
13	B	809	CLA	C4-C3-C5	2.13	118.85	115.27
13	A	850	CLA	C3B-C4B-NB	2.13	112.49	110.52
13	B	846	CLA	C9-C8-C7	2.13	118.99	111.29
13	A	810	CLA	C7-C6-C5	-2.13	107.59	113.36
13	A	823	CLA	O2A-CGA-CBA	2.12	118.57	111.91
13	B	836	CLA	C5-C3-C2	-2.12	116.82	121.12
13	A	832	CLA	CHC-C1C-NC	-2.12	120.98	124.20
13	B	833	CLA	O2A-CGA-CBA	2.12	118.57	111.91
13	B	843	CLA	C2D-C1D-ND	2.12	111.67	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	838	CLA	C9-C8-C7	2.12	118.97	111.29
13	A	844	CLA	C9-C8-C7	2.12	118.97	111.29
13	A	822	CLA	CHB-C1B-C2B	-2.12	121.25	127.24
13	B	806	CLA	C3B-C4B-NB	2.12	112.48	110.52
13	B	832	CLA	CMB-C2B-C3B	2.12	131.72	126.59
13	A	844	CLA	CED-O2D-CGD	2.12	120.72	115.94
15	A	842	BCR	C35-C13-C14	-2.12	119.96	122.92
13	B	819	CLA	CMA-C3A-C4A	2.11	117.45	111.77
13	B	840	CLA	CAA-C2A-C1A	2.11	118.90	111.97
15	B	824	BCR	C36-C18-C17	-2.11	119.96	122.92
13	A	826	CLA	CAC-C3C-C4C	2.11	127.55	124.81
13	F	201	CLA	C1D-CHD-C4C	-2.11	121.50	126.06
13	B	811	CLA	CHB-C1B-C2B	-2.11	121.27	127.24
13	B	832	CLA	C11-C10-C8	2.11	122.74	115.92
13	B	808	CLA	O2A-CGA-CBA	2.11	118.53	111.91
15	F	206	BCR	C36-C18-C17	-2.11	119.97	122.92
13	A	813	CLA	CBC-CAC-C3C	-2.11	106.62	112.43
13	A	856	CLA	CHC-C4B-NB	-2.11	122.03	124.26
13	A	811	CLA	CHC-C1C-NC	2.11	127.40	124.20
15	B	825	BCR	C40-C30-C25	-2.11	106.88	110.30
13	B	819	CLA	CHB-C1B-NB	-2.11	122.03	124.26
13	B	821	CLA	CMB-C2B-C3B	2.11	131.69	126.59
13	J	101	CLA	CMB-C2B-C1B	2.11	128.57	125.37
13	B	829	CLA	O1A-CGA-CBA	-2.10	115.53	123.73
13	A	861	CLA	C4A-NA-C1A	2.10	107.65	106.71
13	B	835	CLA	CMB-C2B-C3B	2.10	131.68	126.59
13	B	818	CLA	CBB-CAB-C3B	-2.10	117.17	127.62
15	A	840	BCR	C15-C14-C13	2.10	130.31	127.31
13	B	829	CLA	C5-C3-C2	-2.10	116.87	121.12
13	B	849	CLA	C3D-C4D-ND	2.10	113.63	110.24
13	A	810	CLA	C3B-C4B-NB	2.10	112.46	110.52
13	A	809	CLA	C3D-C2D-C1D	-2.10	102.97	105.83
13	B	813	CLA	CBC-CAC-C3C	-2.10	106.65	112.43
13	A	819	CLA	C7-C6-C5	2.10	119.05	113.36
13	A	814	CLA	CAA-C2A-C1A	-2.10	105.11	111.97
13	A	811	CLA	CHA-C1A-NA	-2.10	121.60	126.40
13	B	809	CLA	C1D-CHD-C4C	-2.09	121.54	126.06
13	A	807	CLA	CGD-CBD-CAD	-2.09	103.95	110.73
13	A	814	CLA	CBA-CAA-C2A	2.09	120.04	113.86
13	A	863	CLA	CMB-C2B-C3B	2.09	131.66	126.59
13	A	822	CLA	C7-C6-C5	-2.09	107.68	113.36
13	X	102	CLA	CHD-C1D-ND	-2.09	122.53	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	806	CLA	C11-C10-C8	2.09	122.68	115.92
18	A	847	CL0	C3D-C4D-ND	2.09	113.62	110.24
13	B	818	CLA	C4A-NA-C1A	-2.09	105.77	106.71
13	A	855	CLA	C1-O2A-CGA	2.09	121.93	116.44
13	A	857	CLA	CHB-C1B-NB	-2.09	122.04	124.26
15	A	841	BCR	C29-C30-C25	2.09	113.70	110.48
13	A	826	CLA	C1-C2-C3	-2.09	122.43	126.04
13	A	833	CLA	C4-C3-C5	2.09	118.78	115.27
12	B	801	LMT	C1'-O5'-C5'	-2.09	109.59	113.69
13	B	845	CLA	C4-C3-C5	2.09	118.78	115.27
13	B	808	CLA	C10-C8-C7	2.09	123.11	112.13
13	B	850	CLA	C10-C8-C7	2.09	123.11	112.13
13	A	820	CLA	C9-C8-C10	2.09	118.85	111.29
13	A	807	CLA	CMB-C2B-C3B	2.09	131.64	126.59
13	A	863	CLA	CBC-CAC-C3C	-2.09	106.68	112.43
13	B	835	CLA	C6-C7-C8	2.08	122.66	115.92
13	K	104	CLA	C3A-C2A-C1A	-2.08	98.22	101.34
13	A	850	CLA	C1-C2-C3	-2.08	122.44	126.04
13	B	838	CLA	C4A-NA-C1A	-2.08	105.77	106.71
13	F	204	CLA	C3A-C2A-C1A	-2.08	98.22	101.34
13	A	815	CLA	C1D-CHD-C4C	-2.08	121.57	126.06
13	A	849	CLA	CHB-C1B-C2B	-2.08	121.36	127.24
13	B	828	CLA	C1C-C2C-C3C	-2.08	104.77	106.96
13	J	101	CLA	CHB-C4A-NA	2.08	127.39	124.51
13	A	854	CLA	C1D-CHD-C4C	-2.08	121.57	126.06
13	A	829	CLA	C9-C8-C10	2.08	118.82	111.29
13	B	818	CLA	CHB-C1B-C2B	-2.08	121.37	127.24
13	B	842	CLA	C9-C8-C7	2.08	118.82	111.29
13	A	811	CLA	CAA-CBA-CGA	2.08	119.32	113.25
13	B	817	CLA	CHB-C4A-NA	2.08	127.38	124.51
13	B	818	CLA	CMB-C2B-C1B	2.08	128.53	125.37
13	B	847	CLA	C1D-CHD-C4C	-2.08	121.58	126.06
13	B	807	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
13	B	816	CLA	C1-O2A-CGA	2.07	121.89	116.44
13	A	808	CLA	C5-C3-C2	2.07	125.31	121.12
13	A	830	CLA	CHD-C1D-ND	-2.07	122.55	124.45
13	B	850	CLA	CBC-CAC-C3C	-2.07	106.71	112.43
13	F	201	CLA	C1-O2A-CGA	2.07	121.88	116.44
15	A	838	BCR	C38-C26-C27	-2.07	109.64	113.62
13	B	814	CLA	C1C-C2C-C3C	-2.07	104.78	106.96
13	A	808	CLA	CBA-CAA-C2A	2.07	119.97	113.86
13	B	838	CLA	CMC-C2C-C1C	2.07	128.19	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	847	CL0	CBB-CAB-C3B	-2.07	117.33	127.62
12	K	105	LMT	O1'-C1'-C2'	2.07	111.53	108.30
13	B	845	CLA	C1D-CHD-C4C	-2.07	121.60	126.06
13	A	830	CLA	O2D-CGD-O1D	-2.07	119.80	123.84
13	B	828	CLA	C10-C8-C7	2.07	123.00	112.13
13	B	810	CLA	C3A-C2A-C1A	-2.07	98.25	101.34
13	B	839	CLA	CHC-C4B-NB	-2.06	122.07	124.26
13	B	846	CLA	CHB-C1B-C2B	-2.06	121.41	127.24
13	A	812	CLA	CHB-C4A-NA	2.06	127.36	124.51
12	B	851	LMT	O1'-C1'-C2'	2.06	111.52	108.30
13	A	813	CLA	C4D-CHA-C1A	-2.06	118.74	121.25
12	A	834	LMT	O5'-C5'-C4'	2.06	114.10	109.75
13	A	824	CLA	C2A-C1A-CHA	-2.06	120.26	123.86
13	A	814	CLA	CHD-C1D-ND	-2.06	122.56	124.45
13	J	101	CLA	C2A-C1A-CHA	-2.06	120.26	123.86
13	X	102	CLA	C1-C2-C3	-2.06	122.49	126.04
13	A	806	CLA	C1-C2-C3	2.06	129.60	126.04
13	A	818	CLA	C6-C7-C8	2.06	122.56	115.92
13	B	832	CLA	CHB-C1B-C2B	-2.05	121.44	127.24
13	A	849	CLA	CHC-C4B-NB	-2.05	122.08	124.26
13	B	821	CLA	CHC-C1C-C2C	-2.05	121.03	126.73
13	B	849	CLA	C5-C3-C2	-2.05	116.97	121.12
13	A	855	CLA	C3D-C2D-C1D	-2.05	103.03	105.83
13	A	855	CLA	C1-C2-C3	-2.05	122.50	126.04
13	B	838	CLA	O2D-CGD-CBD	2.05	114.91	111.27
13	B	810	CLA	C3B-C2B-C1B	-2.05	104.69	107.16
13	A	827	CLA	C6-C5-C3	2.05	118.83	113.45
13	B	834	CLA	C1D-CHD-C4C	-2.05	121.64	126.06
13	B	805	CLA	CBC-CAC-C3C	-2.05	106.79	112.43
13	A	809	CLA	CMD-C2D-C1D	2.05	128.32	124.71
13	B	814	CLA	CHB-C1B-C2B	-2.05	121.46	127.24
13	B	836	CLA	C4D-CHA-C1A	2.05	123.74	121.25
13	B	808	CLA	C1-C2-C3	-2.05	122.50	126.04
13	B	832	CLA	CAC-C3C-C2C	-2.05	124.03	127.53
13	B	817	CLA	C3B-C4B-NB	2.04	112.41	110.52
12	A	801	LMT	O1'-C1'-C2'	2.04	111.49	108.30
13	A	806	CLA	C3A-C2A-C1A	-2.04	98.28	101.34
15	B	826	BCR	C33-C5-C6	-2.04	122.23	124.53
13	B	806	CLA	CHC-C1C-C2C	-2.04	121.06	126.73
13	B	813	CLA	CHB-C1B-C2B	-2.04	121.47	127.24
13	B	819	CLA	OBD-CAD-C3D	-2.04	123.61	128.52
13	B	818	CLA	C1D-CHD-C4C	-2.04	121.66	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	K	101	CLA	CBC-CAC-C3C	-2.04	106.81	112.43
13	A	860	CLA	CHD-C4C-NC	-2.04	120.99	124.20
15	F	206	BCR	C2-C1-C6	2.04	113.62	110.48
13	A	861	CLA	CHB-C4A-NA	2.04	127.33	124.51
13	A	806	CLA	CHC-C4B-NB	-2.04	122.10	124.26
13	A	833	CLA	O1A-CGA-CBA	-2.04	115.79	123.73
13	B	805	CLA	CED-O2D-CGD	2.03	120.54	115.94
13	B	835	CLA	C4D-CHA-C1A	-2.03	118.77	121.25
15	A	838	BCR	C35-C13-C12	2.03	121.28	118.08
13	B	849	CLA	CBB-CAB-C3B	-2.03	117.50	127.62
13	A	821	CLA	C1-C2-C3	-2.03	122.53	126.04
13	A	813	CLA	CHB-C1B-C2B	-2.03	121.50	127.24
13	A	858	CLA	C3D-C4D-ND	2.03	113.52	110.24
13	B	808	CLA	C1D-CHD-C4C	-2.03	121.68	126.06
13	B	817	CLA	C4-C3-C5	2.03	118.69	115.27
13	B	810	CLA	C2A-C1A-CHA	-2.03	120.31	123.86
13	B	840	CLA	CBC-CAC-C3C	-2.03	106.84	112.43
13	B	820	CLA	CHC-C4B-NB	-2.03	122.11	124.26
15	A	839	BCR	C36-C18-C17	-2.03	120.08	122.92
13	A	855	CLA	C3D-C4D-ND	2.03	113.52	110.24
13	B	806	CLA	C9-C8-C7	2.03	118.64	111.29
13	B	831	CLA	CHB-C1B-C2B	-2.03	121.51	127.24
13	B	849	CLA	C3B-C2B-C1B	-2.02	104.72	107.16
13	B	817	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
13	A	858	CLA	CGD-CBD-CAD	-2.02	104.18	110.73
13	B	838	CLA	C3D-C2D-C1D	-2.02	103.07	105.83
13	B	815	CLA	C1D-ND-C4D	-2.02	104.90	106.33
13	B	836	CLA	CBC-CAC-C3C	-2.02	106.86	112.43
15	F	203	BCR	C36-C18-C17	-2.02	120.09	122.92
13	B	810	CLA	C1D-ND-C4D	-2.02	104.90	106.33
13	B	847	CLA	CED-O2D-CGD	2.02	120.50	115.94
12	A	834	LMT	C3'-C4'-C5'	2.02	115.55	110.93
13	A	856	CLA	CHB-C1B-C2B	-2.02	121.54	127.24
13	A	828	CLA	CHD-C1D-ND	-2.02	122.60	124.45
13	B	833	CLA	O1D-CGD-CBD	-2.02	120.36	124.48
13	B	817	CLA	C1D-CHD-C4C	-2.01	121.71	126.06
13	B	820	CLA	C7-C6-C5	-2.01	107.89	113.36
13	B	842	CLA	C6-C5-C3	2.01	118.73	113.45
15	J	103	BCR	C36-C18-C19	2.01	121.25	118.08
13	A	831	CLA	CBB-CAB-C3B	-2.01	117.61	127.62
13	J	102	CLA	CHD-C1D-ND	-2.01	122.61	124.45
13	A	858	CLA	C3B-C2B-C1B	-2.01	104.73	107.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	811	CLA	C3D-C4D-ND	2.01	113.49	110.24
15	M	101	BCR	C15-C16-C17	2.01	127.59	123.47
13	A	860	CLA	C10-C8-C7	2.01	122.70	112.13
13	A	812	CLA	CED-O2D-CGD	2.01	120.48	115.94
13	A	813	CLA	CHC-C4B-NB	-2.01	122.13	124.26
13	B	808	CLA	C3D-C4D-ND	2.01	113.49	110.24
18	A	847	CL0	CHD-C4C-NC	-2.01	121.04	124.20
13	B	846	CLA	C1-O2A-CGA	2.01	121.71	116.44
13	A	844	CLA	CMB-C2B-C1B	2.01	128.43	125.37
13	A	810	CLA	O2D-CGD-CBD	2.01	114.83	111.27
13	B	846	CLA	C3A-C2A-C1A	-2.01	98.33	101.34
13	A	806	CLA	C10-C8-C7	2.01	122.67	112.13
13	A	817	CLA	C4-C3-C5	2.01	118.64	115.27
13	B	838	CLA	CHA-C1A-NA	-2.00	121.81	126.40
13	B	839	CLA	C2A-C1A-CHA	-2.00	120.36	123.86
13	A	808	CLA	CHC-C1C-NC	-2.00	121.17	124.20

All (57) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
13	A	805	CLA	C8
13	A	806	CLA	C8
13	A	807	CLA	C8
13	A	808	CLA	C8
13	A	809	CLA	C8
13	A	810	CLA	C8
13	A	811	CLA	C8
13	A	812	CLA	C8
13	A	813	CLA	C8
13	A	814	CLA	C8
13	A	815	CLA	C8
13	A	816	CLA	C8
13	A	817	CLA	C8
13	A	818	CLA	C8
13	A	821	CLA	C8
13	A	822	CLA	C8
13	A	823	CLA	C8
13	A	824	CLA	C8
13	A	825	CLA	C8
13	A	827	CLA	C8
13	A	830	CLA	C8
13	A	831	CLA	C8

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Mol	Chain	Res	Type	Atom
13	A	832	CLA	C8
13	A	844	CLA	C8
13	A	848	CLA	C8
13	A	849	CLA	C8
13	A	851	CLA	C8
13	A	854	CLA	C8
13	A	856	CLA	C8
13	A	858	CLA	C8
13	A	859	CLA	C8
13	A	860	CLA	C8
13	A	861	CLA	C8
13	B	813	CLA	C8
13	B	815	CLA	C8
13	B	816	CLA	C8
13	B	817	CLA	C8
13	B	818	CLA	C8
13	B	819	CLA	C8
13	B	820	CLA	C8
13	B	821	CLA	C8
13	B	828	CLA	C8
13	B	829	CLA	C8
13	B	831	CLA	C8
13	B	832	CLA	C8
13	B	833	CLA	C8
13	B	835	CLA	C8
13	B	837	CLA	C8
13	B	839	CLA	C8
13	B	841	CLA	C8
13	B	842	CLA	C8
13	B	843	CLA	C8
13	F	201	CLA	C8
13	F	204	CLA	C8
13	J	102	CLA	C8
13	K	101	CLA	C8
13	K	104	CLA	C8

All (1026) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
12	A	804	LMT	C2'-C1'-O1'-C1
12	A	804	LMT	O5'-C1'-O1'-C1
12	A	834	LMT	C2-C1-O1'-C1'

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Mol	Chain	Res	Type	Atoms
12	B	827	LMT	O5'-C1'-O1'-C1
12	X	103	LMT	C2-C1-O1'-C1'
13	A	805	CLA	CHA-CBD-CGD-O1D
13	A	805	CLA	CHA-CBD-CGD-O2D
13	A	807	CLA	C4-C3-C5-C6
13	A	808	CLA	C1A-C2A-CAA-CBA
13	A	808	CLA	C3A-C2A-CAA-CBA
13	A	808	CLA	C2-C1-O2A-CGA
13	A	808	CLA	C6-C7-C8-C9
13	A	809	CLA	C1A-C2A-CAA-CBA
13	A	811	CLA	CHA-CBD-CGD-O1D
13	A	811	CLA	CHA-CBD-CGD-O2D
13	A	812	CLA	CBA-CGA-O2A-C1
13	A	812	CLA	O1A-CGA-O2A-C1
13	A	812	CLA	O2A-C1-C2-C3
13	A	817	CLA	C2A-CAA-CBA-CGA
13	A	819	CLA	C2-C3-C5-C6
13	A	819	CLA	C4-C3-C5-C6
13	A	824	CLA	C11-C10-C8-C9
13	A	826	CLA	C2-C1-O2A-CGA
13	A	826	CLA	CHA-CBD-CGD-O2D
13	A	828	CLA	C1A-C2A-CAA-CBA
13	A	828	CLA	C3A-C2A-CAA-CBA
13	A	830	CLA	CHA-CBD-CGD-O1D
13	A	830	CLA	CAD-CBD-CGD-O1D
13	A	848	CLA	C1A-C2A-CAA-CBA
13	A	848	CLA	C3A-C2A-CAA-CBA
13	A	851	CLA	C1A-C2A-CAA-CBA
13	A	851	CLA	C2-C1-O2A-CGA
13	A	853	CLA	CHA-CBD-CGD-O1D
13	A	856	CLA	C1A-C2A-CAA-CBA
13	A	861	CLA	O2A-C1-C2-C3
13	A	861	CLA	C11-C10-C8-C9
13	B	807	CLA	CBA-CGA-O2A-C1
13	B	807	CLA	O1A-CGA-O2A-C1
13	B	811	CLA	CBA-CGA-O2A-C1
13	B	829	CLA	C1A-C2A-CAA-CBA
13	B	829	CLA	C11-C10-C8-C9
13	B	831	CLA	C1A-C2A-CAA-CBA
13	B	831	CLA	C3A-C2A-CAA-CBA
13	B	837	CLA	C11-C10-C8-C9
13	B	839	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
13	B	841	CLA	O2A-C1-C2-C3
13	B	842	CLA	C1A-C2A-CAA-CBA
13	B	842	CLA	C3A-C2A-CAA-CBA
13	B	842	CLA	C6-C7-C8-C9
13	B	843	CLA	C2-C3-C5-C6
13	B	843	CLA	C4-C3-C5-C6
13	B	847	CLA	CBA-CGA-O2A-C1
13	B	847	CLA	O1A-CGA-O2A-C1
13	B	847	CLA	C1-C2-C3-C4
13	F	204	CLA	C2C-C3C-CAC-CBC
13	F	204	CLA	C4C-C3C-CAC-CBC
13	J	101	CLA	CHA-CBD-CGD-O1D
13	J	101	CLA	CHA-CBD-CGD-O2D
13	J	101	CLA	CAD-CBD-CGD-O1D
13	J	101	CLA	CAD-CBD-CGD-O2D
15	B	802	BCR	C7-C8-C9-C34
15	B	824	BCR	C7-C8-C9-C10
15	B	824	BCR	C7-C8-C9-C34
15	J	103	BCR	C23-C24-C25-C26
15	J	103	BCR	C23-C24-C25-C30
16	A	843	LHG	C3-O3-P-O5
16	A	843	LHG	O7-C5-C6-O8
16	A	852	LHG	C3-O3-P-O5
16	I	101	LHG	C4-O6-P-O3
16	I	101	LHG	C4-O6-P-O4
16	I	101	LHG	C4-O6-P-O5
16	I	101	LHG	O7-C5-C6-O8
16	X	104	LHG	O2-C2-C3-O3
16	X	104	LHG	C4-O6-P-O3
13	A	832	CLA	C2C-C3C-CAC-CBC
13	B	819	CLA	CBD-CGD-O2D-CED
13	B	841	CLA	CBD-CGD-O2D-CED
13	B	811	CLA	O1A-CGA-O2A-C1
13	B	841	CLA	O1D-CGD-O2D-CED
13	J	101	CLA	C4C-C3C-CAC-CBC
13	B	819	CLA	O1D-CGD-O2D-CED
13	J	102	CLA	C2C-C3C-CAC-CBC
13	A	816	CLA	O1A-CGA-O2A-C1
13	J	101	CLA	O1A-CGA-O2A-C1
13	J	102	CLA	C4C-C3C-CAC-CBC
13	A	808	CLA	C3-C5-C6-C7
13	A	853	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
13	A	816	CLA	CBA-CGA-O2A-C1
13	A	820	CLA	CBA-CGA-O2A-C1
12	A	801	LMT	C3'-C4'-O1B-C1B
13	A	833	CLA	C4-C3-C5-C6
13	B	845	CLA	C4-C3-C5-C6
13	A	807	CLA	C2-C3-C5-C6
13	A	851	CLA	C2A-CAA-CBA-CGA
13	B	845	CLA	C2A-CAA-CBA-CGA
13	J	101	CLA	CBA-CGA-O2A-C1
13	A	811	CLA	C4C-C3C-CAC-CBC
13	B	805	CLA	C10-C11-C12-C13
13	A	817	CLA	C3-C5-C6-C7
13	A	819	CLA	CBD-CGD-O2D-CED
13	B	828	CLA	C3-C5-C6-C7
16	X	104	LHG	C2-C3-O3-P
13	B	845	CLA	C2-C3-C5-C6
12	F	205	LMT	O5'-C5'-C6'-O6'
12	A	834	LMT	O5'-C1'-O1'-C1
13	B	807	CLA	C4C-C3C-CAC-CBC
13	A	848	CLA	CBD-CGD-O2D-CED
19	B	804	LMG	C28-C29-C30-C31
12	F	205	LMT	C4'-C5'-C6'-O6'
12	X	103	LMT	C4'-C5'-C6'-O6'
13	B	847	CLA	C10-C11-C12-C13
12	A	801	LMT	C2'-C1'-O1'-C1
12	A	834	LMT	C2'-C1'-O1'-C1
16	X	104	LHG	O7-C5-C6-O8
13	B	835	CLA	C2-C3-C5-C6
13	A	806	CLA	C11-C12-C13-C14
13	A	809	CLA	C6-C7-C8-C9
13	A	810	CLA	C11-C10-C8-C9
13	A	811	CLA	C6-C7-C8-C9
13	A	812	CLA	C11-C10-C8-C9
13	A	815	CLA	C11-C10-C8-C9
13	A	819	CLA	C11-C10-C8-C9
13	A	820	CLA	C14-C13-C15-C16
13	A	823	CLA	C14-C13-C15-C16
13	A	825	CLA	C6-C7-C8-C9
13	A	826	CLA	C6-C7-C8-C9
13	A	827	CLA	C11-C10-C8-C9
13	A	828	CLA	C6-C7-C8-C9
13	A	830	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
13	A	830	CLA	C11-C10-C8-C9
13	A	831	CLA	C6-C7-C8-C9
13	A	831	CLA	C11-C10-C8-C9
13	A	832	CLA	C6-C7-C8-C9
13	A	832	CLA	C11-C10-C8-C9
13	A	850	CLA	C11-C10-C8-C9
13	A	851	CLA	C6-C7-C8-C9
13	A	853	CLA	C11-C10-C8-C9
13	A	856	CLA	C11-C10-C8-C9
13	A	857	CLA	C6-C7-C8-C9
13	B	807	CLA	C6-C7-C8-C9
13	B	815	CLA	C6-C7-C8-C9
13	B	816	CLA	C11-C10-C8-C9
13	B	818	CLA	C6-C7-C8-C9
13	B	820	CLA	C11-C10-C8-C9
13	B	821	CLA	C11-C10-C8-C9
13	B	829	CLA	C6-C7-C8-C9
13	B	832	CLA	C11-C10-C8-C9
13	B	833	CLA	C11-C10-C8-C9
13	B	836	CLA	C6-C7-C8-C9
13	B	843	CLA	C11-C10-C8-C9
13	B	844	CLA	C11-C10-C8-C9
13	B	845	CLA	C6-C7-C8-C9
13	B	847	CLA	C11-C10-C8-C9
13	B	850	CLA	C11-C10-C8-C9
13	F	204	CLA	C11-C10-C8-C9
13	K	104	CLA	C6-C7-C8-C9
13	X	102	CLA	C6-C7-C8-C9
13	B	831	CLA	C2A-CAA-CBA-CGA
15	K	103	BCR	C7-C8-C9-C34
15	K	103	BCR	C7-C8-C9-C10
13	A	812	CLA	C5-C6-C7-C8
13	A	844	CLA	C10-C11-C12-C13
13	J	102	CLA	CBD-CGD-O2D-CED
12	A	835	LMT	O5'-C5'-C6'-O6'
13	A	809	CLA	C13-C15-C16-C17
13	A	825	CLA	C13-C15-C16-C17
13	A	826	CLA	C15-C16-C17-C18
13	A	861	CLA	C15-C16-C17-C18
13	B	845	CLA	C10-C11-C12-C13
13	B	848	CLA	C8-C10-C11-C12
12	K	105	LMT	O5B-C5B-C6B-O6B

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Mol	Chain	Res	Type	Atoms
13	A	815	CLA	C15-C16-C17-C18
13	A	851	CLA	C13-C15-C16-C17
13	B	815	CLA	C8-C10-C11-C12
13	B	849	CLA	C8-C10-C11-C12
13	J	101	CLA	C2C-C3C-CAC-CBC
13	A	854	CLA	C5-C6-C7-C8
13	A	811	CLA	C2-C1-O2A-CGA
13	B	845	CLA	C2-C1-O2A-CGA
12	A	804	LMT	C5'-C4'-O1B-C1B
13	A	815	CLA	C12-C13-C15-C16
13	A	817	CLA	C11-C10-C8-C7
13	A	833	CLA	C6-C7-C8-C10
13	A	859	CLA	C6-C7-C8-C10
13	A	861	CLA	C6-C7-C8-C10
13	B	816	CLA	C6-C7-C8-C10
13	B	818	CLA	C11-C10-C8-C7
13	B	828	CLA	C11-C10-C8-C7
13	B	832	CLA	C6-C7-C8-C10
13	B	835	CLA	C11-C10-C8-C7
13	B	839	CLA	C11-C10-C8-C7
13	B	843	CLA	C6-C7-C8-C10
13	B	845	CLA	C11-C10-C8-C7
12	B	827	LMT	O1'-C1-C2-C3
12	X	103	LMT	O1'-C1-C2-C3
13	A	820	CLA	O1A-CGA-O2A-C1
13	A	858	CLA	O1A-CGA-O2A-C1
13	B	820	CLA	CBD-CGD-O2D-CED
13	A	807	CLA	C5-C6-C7-C8
12	B	827	LMT	C5'-C4'-O1B-C1B
13	A	806	CLA	C15-C16-C17-C18
13	A	807	CLA	C8-C10-C11-C12
13	A	811	CLA	C10-C11-C12-C13
13	A	817	CLA	C10-C11-C12-C13
13	A	825	CLA	C5-C6-C7-C8
13	A	828	CLA	C13-C15-C16-C17
13	A	853	CLA	C5-C6-C7-C8
13	B	828	CLA	C5-C6-C7-C8
13	K	104	CLA	C10-C11-C12-C13
13	A	822	CLA	C13-C15-C16-C17
13	A	854	CLA	C8-C10-C11-C12
13	B	821	CLA	C8-C10-C11-C12
13	B	840	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
14	A	837	PQN	C23-C25-C26-C27
12	X	103	LMT	O5'-C5'-C6'-O6'
13	B	848	CLA	C10-C11-C12-C13
16	X	104	LHG	C1-C2-C3-O3
13	B	835	CLA	C4-C3-C5-C6
12	A	804	LMT	O1'-C1-C2-C3
13	A	858	CLA	CBA-CGA-O2A-C1
13	B	832	CLA	CBA-CGA-O2A-C1
12	A	802	LMT	O1'-C1-C2-C3
13	B	811	CLA	C13-C15-C16-C17
13	A	815	CLA	C16-C17-C18-C19
13	B	828	CLA	C16-C17-C18-C19
13	B	835	CLA	CBD-CGD-O2D-CED
13	B	832	CLA	O1A-CGA-O2A-C1
21	X	101	SQD	C18-C19-C20-C21
13	A	813	CLA	C3-C5-C6-C7
13	A	819	CLA	C16-C17-C18-C20
13	A	821	CLA	C16-C17-C18-C19
13	A	816	CLA	C4-C3-C5-C6
13	A	844	CLA	C4-C3-C5-C6
12	A	834	LMT	C3'-C4'-O1B-C1B
19	B	804	LMG	C17-C18-C19-C20
21	X	101	SQD	C17-C18-C19-C20
13	A	805	CLA	C6-C7-C8-C9
13	A	805	CLA	C14-C13-C15-C16
13	A	822	CLA	C6-C7-C8-C9
13	A	829	CLA	C6-C7-C8-C9
13	B	814	CLA	C6-C7-C8-C9
13	B	820	CLA	C6-C7-C8-C9
13	B	838	CLA	C11-C12-C13-C14
16	A	843	LHG	C13-C14-C15-C16
16	A	864	LHG	C16-C17-C18-C19
19	B	804	LMG	C32-C33-C34-C35
13	B	817	CLA	C5-C6-C7-C8
13	A	815	CLA	C2A-CAA-CBA-CGA
15	J	104	BCR	C7-C8-C9-C34
15	J	104	BCR	C7-C8-C9-C10
13	A	815	CLA	C5-C6-C7-C8
13	A	821	CLA	C13-C15-C16-C17
16	A	843	LHG	C7-C8-C9-C10
13	A	820	CLA	C16-C17-C18-C19
13	A	820	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
13	A	821	CLA	C16-C17-C18-C20
13	B	828	CLA	C16-C17-C18-C20
14	A	837	PQN	C26-C27-C28-C29
14	A	837	PQN	C26-C27-C28-C30
13	A	823	CLA	C5-C6-C7-C8
13	B	841	CLA	C8-C10-C11-C12
12	A	804	LMT	C3'-C4'-O1B-C1B
12	B	852	LMT	C5-C6-C7-C8
16	A	864	LHG	C28-C29-C30-C31
13	A	822	CLA	CBD-CGD-O2D-CED
13	B	833	CLA	CBD-CGD-O2D-CED
19	B	804	LMG	C15-C16-C17-C18
12	A	802	LMT	C11-C10-C9-C8
13	A	860	CLA	C3-C5-C6-C7
13	A	827	CLA	CBA-CGA-O2A-C1
13	B	842	CLA	CBA-CGA-O2A-C1
16	A	852	LHG	C26-C27-C28-C29
13	B	819	CLA	C3A-C2A-CAA-CBA
13	A	851	CLA	C8-C10-C11-C12
13	B	838	CLA	C15-C16-C17-C18
12	A	835	LMT	C2-C1-O1'-C1'
12	K	102	LMT	C2-C1-O1'-C1'
16	A	843	LHG	C31-C32-C33-C34
13	A	815	CLA	C16-C17-C18-C20
12	A	834	LMT	C5'-C4'-O1B-C1B
21	X	101	SQD	C27-C28-C29-C30
13	A	856	CLA	O2A-C1-C2-C3
13	A	857	CLA	C4-C3-C5-C6
13	B	807	CLA	C4-C3-C5-C6
13	B	841	CLA	C4-C3-C5-C6
13	B	846	CLA	C4-C3-C5-C6
13	F	204	CLA	C4-C3-C5-C6
13	A	816	CLA	C2-C3-C5-C6
13	A	844	CLA	C2-C3-C5-C6
13	B	846	CLA	C2-C3-C5-C6
13	A	822	CLA	C8-C10-C11-C12
13	B	816	CLA	C3-C5-C6-C7
21	X	101	SQD	C12-C13-C14-C15
13	A	827	CLA	O1A-CGA-O2A-C1
21	X	101	SQD	C26-C27-C28-C29
13	B	839	CLA	C2-C1-O2A-CGA
13	B	841	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
13	F	204	CLA	C2-C1-O2A-CGA
12	B	827	LMT	C3'-C4'-O1B-C1B
15	A	838	BCR	C23-C24-C25-C26
15	A	862	BCR	C23-C24-C25-C26
15	B	822	BCR	C23-C24-C25-C26
15	B	822	BCR	C23-C24-C25-C30
15	B	826	BCR	C1-C6-C7-C8
15	B	826	BCR	C5-C6-C7-C8
15	J	104	BCR	C1-C6-C7-C8
15	J	104	BCR	C5-C6-C7-C8
12	B	851	LMT	C3-C4-C5-C6
21	X	101	SQD	C30-C31-C32-C33
13	A	808	CLA	C13-C15-C16-C17
13	A	861	CLA	C13-C15-C16-C17
16	I	101	LHG	C34-C35-C36-C37
13	A	829	CLA	C4-C3-C5-C6
13	K	101	CLA	C4-C3-C5-C6
13	A	805	CLA	C12-C13-C15-C16
13	A	810	CLA	C6-C7-C8-C10
13	A	811	CLA	C11-C10-C8-C7
13	A	816	CLA	C11-C10-C8-C7
13	A	819	CLA	C6-C7-C8-C10
13	A	820	CLA	C11-C12-C13-C15
13	A	820	CLA	C12-C13-C15-C16
13	A	829	CLA	C2-C3-C5-C6
13	A	833	CLA	C2-C3-C5-C6
13	A	851	CLA	C11-C10-C8-C7
13	A	860	CLA	C6-C7-C8-C10
13	B	807	CLA	C2-C3-C5-C6
13	B	808	CLA	C11-C10-C8-C7
13	B	817	CLA	C6-C7-C8-C10
13	B	833	CLA	C6-C7-C8-C10
13	B	837	CLA	C6-C7-C8-C10
13	B	841	CLA	C2-C3-C5-C6
13	B	842	CLA	C11-C10-C8-C7
13	F	204	CLA	C2-C3-C5-C6
13	X	102	CLA	C12-C13-C15-C16
16	X	104	LHG	C11-C10-C9-C8
13	B	835	CLA	O1D-CGD-O2D-CED
13	B	839	CLA	CBA-CGA-O2A-C1
16	A	852	LHG	C19-C20-C21-C22
16	I	101	LHG	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
12	K	105	LMT	C2-C3-C4-C5
19	B	804	LMG	C16-C17-C18-C19
13	A	811	CLA	C2C-C3C-CAC-CBC
21	X	101	SQD	C32-C33-C34-C35
12	A	801	LMT	O1'-C1-C2-C3
13	A	855	CLA	CBD-CGD-O2D-CED
13	B	849	CLA	CBD-CGD-O2D-CED
12	B	852	LMT	C2'-C1'-O1'-C1
16	A	864	LHG	O7-C5-C6-O8
13	B	820	CLA	CBA-CGA-O2A-C1
16	I	101	LHG	C24-C25-C26-C27
19	B	804	LMG	O6-C5-C6-O5
13	A	812	CLA	C4-C3-C5-C6
13	A	812	CLA	C2-C3-C5-C6
13	K	101	CLA	C2-C3-C5-C6
13	A	806	CLA	C11-C10-C8-C9
13	A	815	CLA	C14-C13-C15-C16
13	A	820	CLA	C11-C12-C13-C14
13	A	825	CLA	C11-C10-C8-C9
13	A	826	CLA	C14-C13-C15-C16
13	A	853	CLA	C6-C7-C8-C9
13	B	831	CLA	C6-C7-C8-C9
12	B	801	LMT	C11-C10-C9-C8
13	B	845	CLA	C3-C5-C6-C7
13	A	859	CLA	CBA-CGA-O2A-C1
13	A	805	CLA	C10-C11-C12-C13
13	B	845	CLA	C2C-C3C-CAC-CBC
13	B	819	CLA	C1A-C2A-CAA-CBA
13	B	845	CLA	C1A-C2A-CAA-CBA
13	B	837	CLA	C16-C17-C18-C20
13	A	805	CLA	C13-C15-C16-C17
13	B	831	CLA	C15-C16-C17-C18
13	A	824	CLA	C3-C5-C6-C7
16	I	101	LHG	C5-C4-O6-P
13	A	850	CLA	C8-C10-C11-C12
13	A	856	CLA	CBA-CGA-O2A-C1
13	A	819	CLA	O1D-CGD-O2D-CED
12	A	802	LMT	C5'-C4'-O1B-C1B
13	A	849	CLA	C10-C11-C12-C13
12	B	827	LMT	O5B-C5B-C6B-O6B
13	B	816	CLA	C4-C3-C5-C6
16	A	864	LHG	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
13	A	859	CLA	C3-C5-C6-C7
16	I	101	LHG	C4-C5-C6-O8
13	A	856	CLA	C5-C6-C7-C8
13	A	860	CLA	C8-C10-C11-C12
12	A	835	LMT	C4'-C5'-C6'-O6'
16	A	864	LHG	C30-C31-C32-C33
13	B	805	CLA	CAA-CBA-CGA-O2A
12	A	801	LMT	O5'-C5'-C6'-O6'
16	I	101	LHG	C14-C15-C16-C17
13	B	829	CLA	C8-C10-C11-C12
13	A	859	CLA	O1A-CGA-O2A-C1
12	X	103	LMT	C1-C2-C3-C4
13	B	820	CLA	C15-C16-C17-C18
13	A	851	CLA	C4-C3-C5-C6
13	B	811	CLA	C4-C3-C5-C6
12	B	801	LMT	C3-C4-C5-C6
13	B	843	CLA	C10-C11-C12-C13
13	A	822	CLA	O1D-CGD-O2D-CED
12	X	103	LMT	O5B-C5B-C6B-O6B
13	A	808	CLA	C15-C16-C17-C18
13	A	844	CLA	C8-C10-C11-C12
13	B	820	CLA	C10-C11-C12-C13
16	X	104	LHG	C25-C26-C27-C28
13	A	859	CLA	C10-C11-C12-C13
13	F	204	CLA	C10-C11-C12-C13
16	I	101	LHG	C12-C13-C14-C15
19	B	804	LMG	C34-C35-C36-C37
13	A	831	CLA	CBA-CGA-O2A-C1
13	B	835	CLA	CBA-CGA-O2A-C1
16	I	101	LHG	O6-C4-C5-O7
13	B	814	CLA	C16-C17-C18-C19
16	A	864	LHG	C25-C26-C27-C28
13	B	849	CLA	C10-C11-C12-C13
12	A	802	LMT	C3'-C4'-O1B-C1B
12	X	103	LMT	C7-C8-C9-C10
13	A	856	CLA	O1A-CGA-O2A-C1
13	B	839	CLA	O1A-CGA-O2A-C1
13	B	836	CLA	C13-C15-C16-C17
13	B	841	CLA	C13-C15-C16-C17
13	F	204	CLA	C5-C6-C7-C8
12	A	834	LMT	C9-C10-C11-C12
13	A	831	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
13	A	820	CLA	C13-C15-C16-C17
13	A	828	CLA	C10-C11-C12-C13
13	B	832	CLA	C10-C11-C12-C13
13	K	104	CLA	C8-C10-C11-C12
13	A	806	CLA	C6-C7-C8-C10
13	A	808	CLA	C11-C10-C8-C7
13	A	815	CLA	C6-C7-C8-C10
13	A	826	CLA	C12-C13-C15-C16
13	A	849	CLA	C11-C10-C8-C7
13	A	854	CLA	C11-C12-C13-C15
13	A	863	CLA	C6-C7-C8-C10
13	B	805	CLA	C12-C13-C15-C16
13	B	806	CLA	C11-C10-C8-C7
13	B	811	CLA	C2-C3-C5-C6
13	B	816	CLA	C2-C3-C5-C6
13	B	819	CLA	C12-C13-C15-C16
13	B	850	CLA	C6-C7-C8-C10
13	J	101	CLA	C11-C10-C8-C7
13	J	102	CLA	C11-C12-C13-C15
14	A	837	PQN	C22-C23-C25-C26
14	B	823	PQN	C21-C22-C23-C25
13	A	851	CLA	O1A-CGA-O2A-C1
13	B	835	CLA	O1A-CGA-O2A-C1
13	A	805	CLA	C11-C10-C8-C9
13	A	816	CLA	C6-C7-C8-C9
13	A	817	CLA	C6-C7-C8-C9
13	A	818	CLA	C6-C7-C8-C9
13	A	819	CLA	C6-C7-C8-C9
13	A	820	CLA	C6-C7-C8-C9
13	A	844	CLA	C6-C7-C8-C9
13	A	859	CLA	C11-C10-C8-C9
13	A	860	CLA	C11-C10-C8-C9
13	B	808	CLA	C11-C10-C8-C9
13	B	813	CLA	C11-C10-C8-C9
13	B	819	CLA	C14-C13-C15-C16
13	X	102	CLA	C14-C13-C15-C16
14	A	837	PQN	C24-C23-C25-C26
16	X	104	LHG	C33-C34-C35-C36
13	F	204	CLA	CBA-CGA-O2A-C1
16	A	864	LHG	C13-C14-C15-C16
13	A	825	CLA	O1D-CGD-O2D-CED
13	A	810	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
13	A	851	CLA	CBA-CGA-O2A-C1
16	A	864	LHG	C34-C35-C36-C37
16	X	104	LHG	C9-C10-C11-C12
13	B	807	CLA	C15-C16-C17-C18
13	A	810	CLA	C15-C16-C17-C18
13	J	102	CLA	C5-C6-C7-C8
13	B	832	CLA	C15-C16-C17-C18
13	A	856	CLA	C4-C3-C5-C6
16	X	104	LHG	C13-C14-C15-C16
13	B	849	CLA	O1D-CGD-O2D-CED
13	B	815	CLA	C3-C5-C6-C7
13	B	814	CLA	C16-C17-C18-C20
16	A	852	LHG	C30-C31-C32-C33
13	A	833	CLA	C13-C15-C16-C17
16	A	864	LHG	C5-C4-O6-P
13	F	204	CLA	O1A-CGA-O2A-C1
16	A	843	LHG	C28-C29-C30-C31
12	K	105	LMT	C4B-C5B-C6B-O6B
16	A	843	LHG	C15-C16-C17-C18
13	J	102	CLA	O1D-CGD-O2D-CED
16	A	843	LHG	C4-C5-C6-O8
16	A	864	LHG	C4-C5-C6-O8
16	X	104	LHG	C4-C5-C6-O8
21	X	101	SQD	O6-C44-C45-C46
13	B	847	CLA	O2A-C1-C2-C3
13	B	815	CLA	C15-C16-C17-C18
13	A	851	CLA	C3-C5-C6-C7
13	B	831	CLA	C4-C3-C5-C6
13	B	831	CLA	C2-C3-C5-C6
12	A	834	LMT	O1'-C1-C2-C3
13	K	104	CLA	C15-C16-C17-C18
13	B	837	CLA	C16-C17-C18-C19
13	B	848	CLA	C16-C17-C18-C20
12	B	827	LMT	C9-C10-C11-C12
13	B	842	CLA	O1A-CGA-O2A-C1
13	B	835	CLA	C3-C5-C6-C7
21	X	101	SQD	O6-C44-C45-O47
12	A	803	LMT	O5'-C1'-O1'-C1
13	A	816	CLA	C2-C1-O2A-CGA
13	A	860	CLA	C2-C1-O2A-CGA
13	B	829	CLA	C2-C1-O2A-CGA
13	B	840	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
13	A	808	CLA	C11-C10-C8-C9
13	A	833	CLA	C14-C13-C15-C16
13	A	854	CLA	C11-C12-C13-C14
13	B	840	CLA	C11-C10-C8-C9
13	B	841	CLA	C6-C7-C8-C9
13	J	102	CLA	C11-C12-C13-C14
13	K	104	CLA	C11-C12-C13-C14
12	A	801	LMT	C7-C8-C9-C10
13	A	853	CLA	C8-C10-C11-C12
13	B	831	CLA	C5-C6-C7-C8
13	B	843	CLA	C15-C16-C17-C18
13	A	831	CLA	O1A-CGA-O2A-C1
12	A	836	LMT	C7-C8-C9-C10
15	A	838	BCR	C23-C24-C25-C30
15	A	862	BCR	C23-C24-C25-C30
15	B	825	BCR	C23-C24-C25-C30
13	B	807	CLA	C8-C10-C11-C12
13	A	855	CLA	O1D-CGD-O2D-CED
15	B	802	BCR	C7-C8-C9-C10
13	A	809	CLA	C15-C16-C17-C18
13	A	819	CLA	C16-C17-C18-C19
13	B	807	CLA	C13-C15-C16-C17
16	I	101	LHG	O6-C4-C5-C6
13	A	808	CLA	C12-C13-C15-C16
13	A	823	CLA	C6-C7-C8-C10
13	A	823	CLA	C12-C13-C15-C16
13	A	827	CLA	C6-C7-C8-C10
13	A	844	CLA	C11-C10-C8-C7
13	A	849	CLA	C6-C7-C8-C10
13	A	854	CLA	C11-C10-C8-C7
13	A	863	CLA	C12-C13-C15-C16
13	B	805	CLA	C6-C7-C8-C10
13	B	810	CLA	C11-C10-C8-C7
13	B	815	CLA	C11-C10-C8-C7
13	B	828	CLA	C11-C12-C13-C15
13	B	835	CLA	C6-C7-C8-C10
13	B	838	CLA	C11-C10-C8-C7
19	B	804	LMG	C38-C39-C40-C41
13	B	837	CLA	C15-C16-C17-C18
13	B	840	CLA	C10-C11-C12-C13
13	J	101	CLA	C10-C11-C12-C13
12	K	105	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
13	A	805	CLA	CBA-CGA-O2A-C1
13	A	809	CLA	CAD-CBD-CGD-O2D
13	A	832	CLA	CAD-CBD-CGD-O2D
13	A	859	CLA	CAD-CBD-CGD-O2D
13	A	861	CLA	CAD-CBD-CGD-O2D
13	B	811	CLA	CAD-CBD-CGD-O2D
13	B	819	CLA	CAD-CBD-CGD-O2D
13	B	831	CLA	CAD-CBD-CGD-O2D
13	B	833	CLA	CAD-CBD-CGD-O2D
13	F	204	CLA	CAD-CBD-CGD-O2D
13	K	101	CLA	CAD-CBD-CGD-O2D
13	B	834	CLA	C8-C10-C11-C12
13	B	816	CLA	CBA-CGA-O2A-C1
16	A	843	LHG	C24-C23-O8-C6
13	A	861	CLA	C4-C3-C5-C6
12	B	801	LMT	O5'-C1'-O1'-C1
13	A	820	CLA	C5-C6-C7-C8
12	A	834	LMT	C4'-C5'-C6'-O6'
19	B	804	LMG	C41-C42-C43-C44
13	B	846	CLA	C13-C15-C16-C17
13	B	828	CLA	CAA-CBA-CGA-O2A
19	B	804	LMG	C21-C22-C23-C24
12	K	105	LMT	C3'-C4'-O1B-C1B
13	A	808	CLA	CHA-CBD-CGD-O1D
13	A	808	CLA	CHA-CBD-CGD-O2D
13	A	814	CLA	CHA-CBD-CGD-O1D
13	A	821	CLA	CHA-CBD-CGD-O1D
13	A	829	CLA	CHA-CBD-CGD-O1D
13	A	829	CLA	CHA-CBD-CGD-O2D
13	A	830	CLA	CHA-CBD-CGD-O2D
13	A	848	CLA	CHA-CBD-CGD-O2D
13	A	853	CLA	CHA-CBD-CGD-O2D
13	B	808	CLA	CHA-CBD-CGD-O1D
13	B	810	CLA	CHA-CBD-CGD-O1D
13	B	810	CLA	CHA-CBD-CGD-O2D
13	B	815	CLA	CHA-CBD-CGD-O1D
13	B	815	CLA	CHA-CBD-CGD-O2D
13	B	833	CLA	CHA-CBD-CGD-O1D
13	B	836	CLA	CHA-CBD-CGD-O1D
13	B	836	CLA	CHA-CBD-CGD-O2D
13	B	848	CLA	CHA-CBD-CGD-O1D
13	B	848	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
16	I	101	LHG	C11-C12-C13-C14
12	B	801	LMT	C2'-C1'-O1'-C1
13	B	813	CLA	C10-C11-C12-C13
13	A	844	CLA	C5-C6-C7-C8
13	B	820	CLA	O1A-CGA-O2A-C1
16	X	104	LHG	O1-C1-C2-O2
13	A	811	CLA	C5-C6-C7-C8
13	B	813	CLA	C8-C10-C11-C12
13	A	851	CLA	C2-C3-C5-C6
13	A	854	CLA	C6-C7-C8-C9
13	A	863	CLA	C14-C13-C15-C16
13	J	102	CLA	C11-C10-C8-C9
13	A	832	CLA	C8-C10-C11-C12
12	A	845	LMT	C3'-C4'-O1B-C1B
13	B	833	CLA	O1D-CGD-O2D-CED
13	B	805	CLA	C1A-C2A-CAA-CBA
13	B	832	CLA	C1A-C2A-CAA-CBA
13	B	839	CLA	C1A-C2A-CAA-CBA
13	B	848	CLA	C16-C17-C18-C19
13	B	843	CLA	C5-C6-C7-C8
13	B	838	CLA	C2-C1-O2A-CGA
12	K	105	LMT	C1-C2-C3-C4
12	A	835	LMT	C6-C7-C8-C9
12	A	845	LMT	C5'-C4'-O1B-C1B
16	A	864	LHG	C4-O6-P-O5
16	X	104	LHG	C4-O6-P-O4
13	A	826	CLA	C16-C17-C18-C20
13	B	845	CLA	C16-C17-C18-C19
13	A	832	CLA	C4C-C3C-CAC-CBC
13	X	102	CLA	C10-C11-C12-C13
13	B	842	CLA	C3-C5-C6-C7
13	B	843	CLA	C16-C17-C18-C20
13	B	844	CLA	C16-C17-C18-C20
13	A	814	CLA	CAD-CBD-CGD-O1D
13	B	808	CLA	CAD-CBD-CGD-O1D
13	B	836	CLA	CAD-CBD-CGD-O1D
21	X	101	SQD	O5-C5-C6-S
13	A	818	CLA	C8-C10-C11-C12
13	B	850	CLA	O1A-CGA-O2A-C1
19	B	804	LMG	C22-C23-C24-C25
16	A	843	LHG	C10-C11-C12-C13
13	B	850	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
13	A	812	CLA	C6-C7-C8-C10
13	A	816	CLA	C12-C13-C15-C16
13	A	822	CLA	C6-C7-C8-C10
13	A	822	CLA	C11-C10-C8-C7
13	A	856	CLA	C6-C7-C8-C10
13	A	863	CLA	C11-C10-C8-C7
13	B	806	CLA	C11-C12-C13-C15
13	B	811	CLA	C11-C12-C13-C15
13	B	813	CLA	C6-C7-C8-C10
13	B	813	CLA	C11-C12-C13-C15
13	B	814	CLA	C11-C10-C8-C7
13	B	817	CLA	C11-C10-C8-C7
13	B	834	CLA	C6-C7-C8-C10
13	B	846	CLA	C6-C7-C8-C10
13	B	849	CLA	C6-C7-C8-C10
13	F	201	CLA	C12-C13-C15-C16
13	J	102	CLA	C11-C10-C8-C7
13	K	101	CLA	C11-C10-C8-C7
13	K	104	CLA	C6-C7-C8-C10
16	X	104	LHG	C15-C16-C17-C18
13	B	836	CLA	C2A-CAA-CBA-CGA
13	B	816	CLA	O1A-CGA-O2A-C1
13	A	805	CLA	O1A-CGA-O2A-C1
13	A	819	CLA	C5-C6-C7-C8
13	A	857	CLA	C2-C3-C5-C6
13	A	808	CLA	C14-C13-C15-C16
13	A	813	CLA	C11-C10-C8-C9
13	A	818	CLA	C11-C12-C13-C14
13	A	824	CLA	C6-C7-C8-C9
13	A	856	CLA	C6-C7-C8-C9
13	B	805	CLA	C11-C10-C8-C9
13	B	809	CLA	C6-C7-C8-C9
13	B	821	CLA	C6-C7-C8-C9
13	B	828	CLA	C6-C7-C8-C9
13	B	828	CLA	C11-C12-C13-C14
13	B	840	CLA	C6-C7-C8-C9
13	B	849	CLA	C14-C13-C15-C16
13	A	831	CLA	C13-C15-C16-C17
15	B	802	BCR	C18-C19-C20-C21
13	A	819	CLA	C15-C16-C17-C18
13	B	820	CLA	C8-C10-C11-C12
13	B	832	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
16	X	104	LHG	C17-C18-C19-C20
13	B	818	CLA	C4-C3-C5-C6
13	B	840	CLA	C4-C3-C5-C6
13	B	850	CLA	C5-C6-C7-C8
16	I	101	LHG	C10-C11-C12-C13
13	B	805	CLA	C5-C6-C7-C8
13	A	828	CLA	CAA-CBA-CGA-O2A
12	A	801	LMT	C9-C10-C11-C12
13	A	814	CLA	C2A-CAA-CBA-CGA
13	A	858	CLA	C1-C2-C3-C5
13	A	830	CLA	C2-C1-O2A-CGA
13	A	833	CLA	C2-C1-O2A-CGA
13	A	860	CLA	C16-C17-C18-C20
16	A	864	LHG	C32-C33-C34-C35
13	A	858	CLA	C3-C5-C6-C7
12	A	835	LMT	C7-C8-C9-C10
13	A	818	CLA	C10-C11-C12-C13
13	A	861	CLA	C2-C3-C5-C6
13	B	820	CLA	O1D-CGD-O2D-CED
12	B	801	LMT	O5B-C5B-C6B-O6B
16	A	843	LHG	C3-O3-P-O6
16	A	852	LHG	C3-O3-P-O6
16	A	852	LHG	C25-C26-C27-C28
13	B	817	CLA	C4-C3-C5-C6
13	A	820	CLA	C10-C11-C12-C13
14	B	823	PQN	C20-C21-C22-C23
13	A	821	CLA	C6-C7-C8-C10
13	A	821	CLA	C11-C10-C8-C7
13	A	833	CLA	C12-C13-C15-C16
13	A	857	CLA	C11-C10-C8-C7
13	B	821	CLA	C6-C7-C8-C10
13	F	201	CLA	C6-C7-C8-C10
13	A	809	CLA	C11-C10-C8-C9
13	A	816	CLA	C14-C13-C15-C16
14	B	823	PQN	C21-C22-C23-C24
13	F	201	CLA	C10-C11-C12-C13
13	B	843	CLA	C16-C17-C18-C19
13	B	842	CLA	C10-C11-C12-C13
13	B	840	CLA	C13-C15-C16-C17
13	B	845	CLA	C15-C16-C17-C18
13	A	854	CLA	CBA-CGA-O2A-C1
13	A	818	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
13	A	814	CLA	CBA-CGA-O2A-C1
13	A	817	CLA	CBA-CGA-O2A-C1
13	B	829	CLA	CBA-CGA-O2A-C1
13	K	101	CLA	CBA-CGA-O2A-C1
13	B	805	CLA	CAA-CBA-CGA-O1A
21	X	101	SQD	C15-C16-C17-C18
13	B	814	CLA	C2-C3-C5-C6
13	B	818	CLA	C2-C3-C5-C6
13	A	822	CLA	C5-C6-C7-C8
13	F	201	CLA	C8-C10-C11-C12
13	A	806	CLA	C2-C1-O2A-CGA
13	B	835	CLA	C2-C1-O2A-CGA
13	A	831	CLA	C5-C6-C7-C8
13	B	845	CLA	C16-C17-C18-C20
13	A	860	CLA	C10-C11-C12-C13
13	A	809	CLA	C3A-C2A-CAA-CBA
19	B	804	LMG	C36-C37-C38-C39
13	A	809	CLA	C4-C3-C5-C6
13	A	807	CLA	CBD-CGD-O2D-CED
13	A	808	CLA	C11-C12-C13-C14
13	A	812	CLA	C6-C7-C8-C9
13	A	822	CLA	C11-C12-C13-C14
13	A	850	CLA	C6-C7-C8-C9
13	A	855	CLA	C6-C7-C8-C9
13	B	806	CLA	C6-C7-C8-C9
13	B	807	CLA	C11-C10-C8-C9
13	B	815	CLA	C11-C12-C13-C14
13	B	817	CLA	C6-C7-C8-C9
13	B	817	CLA	C11-C10-C8-C9
13	F	201	CLA	C11-C10-C8-C9
13	F	204	CLA	C6-C7-C8-C9
12	B	801	LMT	C4-C5-C6-C7
15	A	840	BCR	C11-C10-C9-C34
15	A	840	BCR	C16-C17-C18-C36
15	B	802	BCR	C11-C10-C9-C34
15	B	824	BCR	C11-C10-C9-C34
15	F	203	BCR	C35-C13-C14-C15
13	B	819	CLA	C5-C6-C7-C8
13	B	838	CLA	C8-C10-C11-C12
13	B	832	CLA	C16-C17-C18-C19
12	X	103	LMT	O5'-C1'-O1'-C1
16	X	104	LHG	C6-C5-O7-C7

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Mol	Chain	Res	Type	Atoms
13	A	848	CLA	C5-C6-C7-C8
13	A	814	CLA	C1A-C2A-CAA-CBA
13	B	810	CLA	C1A-C2A-CAA-CBA
13	B	813	CLA	C1A-C2A-CAA-CBA
13	B	820	CLA	C1A-C2A-CAA-CBA
13	B	836	CLA	C1A-C2A-CAA-CBA
13	A	806	CLA	C11-C10-C8-C7
13	A	809	CLA	C6-C7-C8-C10
13	A	817	CLA	C11-C12-C13-C15
13	A	818	CLA	C11-C10-C8-C7
13	A	826	CLA	C11-C10-C8-C7
13	A	829	CLA	C11-C10-C8-C7
13	A	854	CLA	C6-C7-C8-C10
13	B	820	CLA	C6-C7-C8-C10
13	B	830	CLA	C6-C7-C8-C10
13	F	204	CLA	C6-C7-C8-C10
13	J	101	CLA	C6-C7-C8-C10
13	K	101	CLA	O1A-CGA-O2A-C1
13	A	818	CLA	CBA-CGA-O2A-C1
13	A	827	CLA	C16-C17-C18-C20
13	A	816	CLA	C13-C15-C16-C17
13	B	813	CLA	CBD-CGD-O2D-CED
13	A	816	CLA	C16-C17-C18-C20
13	A	832	CLA	C4-C3-C5-C6
13	B	833	CLA	C2-C3-C5-C6
13	A	817	CLA	O1A-CGA-O2A-C1
12	B	827	LMT	C4-C5-C6-C7
15	A	840	BCR	C11-C10-C9-C8
15	A	840	BCR	C16-C17-C18-C19
15	B	824	BCR	C11-C10-C9-C8
15	F	203	BCR	C12-C13-C14-C15
13	A	833	CLA	C8-C10-C11-C12
13	A	861	CLA	CAA-CBA-CGA-O2A
12	A	801	LMT	C11-C10-C9-C8
16	A	852	LHG	C24-C25-C26-C27
13	A	855	CLA	C13-C15-C16-C17
14	A	837	PQN	C25-C26-C27-C28
13	A	823	CLA	O1D-CGD-O2D-CED
13	A	820	CLA	C3-C5-C6-C7
13	A	823	CLA	C4-C3-C5-C6
13	B	806	CLA	C4-C3-C5-C6
13	B	834	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
13	A	812	CLA	C11-C12-C13-C14
13	A	855	CLA	C11-C10-C8-C9
13	A	858	CLA	C11-C10-C8-C9
13	B	811	CLA	C6-C7-C8-C9
13	B	815	CLA	C11-C10-C8-C9
13	A	829	CLA	C5-C6-C7-C8
12	A	801	LMT	C5'-C4'-O1B-C1B
13	B	841	CLA	C5-C6-C7-C8
13	A	816	CLA	C2A-CAA-CBA-CGA
13	B	811	CLA	C16-C17-C18-C20
15	A	841	BCR	C1-C6-C7-C8
15	B	825	BCR	C23-C24-C25-C26
15	J	104	BCR	C23-C24-C25-C30
15	K	103	BCR	C5-C6-C7-C8
13	B	836	CLA	C15-C16-C17-C18
12	A	801	LMT	C6-C7-C8-C9
12	A	804	LMT	C5-C6-C7-C8
13	A	854	CLA	O1A-CGA-O2A-C1
13	A	825	CLA	C4-C3-C5-C6
13	A	853	CLA	C4-C3-C5-C6
13	A	854	CLA	C4-C3-C5-C6
13	B	828	CLA	C4-C3-C5-C6
13	A	860	CLA	C13-C15-C16-C17
13	B	840	CLA	C2-C3-C5-C6
13	K	104	CLA	C13-C15-C16-C17
21	X	101	SQD	C45-C44-O6-C1
16	I	101	LHG	C16-C17-C18-C19
13	B	839	CLA	C10-C11-C12-C13
18	A	847	CL0	CAA-CBA-CGA-O2A
13	A	812	CLA	C15-C16-C17-C18
13	B	808	CLA	C5-C6-C7-C8
13	K	101	CLA	C8-C10-C11-C12
13	A	812	CLA	C11-C12-C13-C15
13	A	813	CLA	C6-C7-C8-C10
13	A	813	CLA	C11-C10-C8-C7
13	A	823	CLA	C11-C12-C13-C15
13	A	833	CLA	C11-C10-C8-C7
13	B	850	CLA	C11-C12-C13-C15
19	B	804	LMG	O7-C10-C11-C12
12	X	103	LMT	C2'-C1'-O1'-C1
13	A	824	CLA	C16-C17-C18-C20
13	A	857	CLA	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
13	B	807	CLA	C5-C6-C7-C8
13	A	819	CLA	CAA-CBA-CGA-O2A
13	A	805	CLA	C5-C6-C7-C8
13	A	860	CLA	C16-C17-C18-C19
12	B	801	LMT	C3'-C4'-O1B-C1B
13	A	817	CLA	C4-C3-C5-C6
13	A	831	CLA	C2-C3-C5-C6
13	A	832	CLA	C2-C3-C5-C6
13	B	828	CLA	C2-C3-C5-C6
13	A	807	CLA	C6-C7-C8-C9
13	A	807	CLA	C11-C10-C8-C9
13	A	814	CLA	C6-C7-C8-C9
13	A	823	CLA	C11-C10-C8-C9
13	B	806	CLA	C11-C10-C8-C9
13	B	806	CLA	C11-C12-C13-C14
13	B	811	CLA	C11-C12-C13-C14
13	B	813	CLA	C11-C12-C13-C14
13	B	831	CLA	C11-C10-C8-C9
13	B	835	CLA	C6-C7-C8-C9
13	B	849	CLA	C11-C10-C8-C9
13	K	101	CLA	C6-C7-C8-C9
13	K	101	CLA	C11-C10-C8-C9
13	A	812	CLA	C3A-C2A-CAA-CBA
13	B	810	CLA	C3A-C2A-CAA-CBA
13	B	813	CLA	C3A-C2A-CAA-CBA
16	A	864	LHG	C11-C12-C13-C14
13	A	806	CLA	CAD-CBD-CGD-O2D
13	A	812	CLA	CAD-CBD-CGD-O2D
13	A	816	CLA	CAD-CBD-CGD-O2D
13	A	817	CLA	CAD-CBD-CGD-O2D
13	A	825	CLA	CAD-CBD-CGD-O2D
13	A	844	CLA	CAD-CBD-CGD-O2D
13	B	817	CLA	CAD-CBD-CGD-O2D
13	B	850	CLA	CAD-CBD-CGD-O2D
13	X	102	CLA	CAD-CBD-CGD-O2D
13	A	831	CLA	C8-C10-C11-C12
16	I	101	LHG	O8-C23-C24-C25
13	J	102	CLA	C4-C3-C5-C6
13	B	817	CLA	C4C-C3C-CAC-CBC
13	B	817	CLA	C2-C3-C5-C6
13	B	816	CLA	CAA-CBA-CGA-O2A
13	B	831	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	B	837	CLA	CAA-CBA-CGA-O2A
16	X	104	LHG	O6-C4-C5-O7
13	B	805	CLA	O2A-C1-C2-C3
13	B	828	CLA	O2A-C1-C2-C3
13	J	101	CLA	O2A-C1-C2-C3
13	A	849	CLA	C2A-CAA-CBA-CGA
13	A	809	CLA	CHA-CBD-CGD-O2D
13	A	813	CLA	CHA-CBD-CGD-O2D
13	A	814	CLA	CHA-CBD-CGD-O2D
13	A	821	CLA	CHA-CBD-CGD-O2D
13	A	826	CLA	CHA-CBD-CGD-O1D
13	A	833	CLA	CHA-CBD-CGD-O1D
13	A	833	CLA	CHA-CBD-CGD-O2D
13	A	850	CLA	CHA-CBD-CGD-O2D
13	A	854	CLA	CHA-CBD-CGD-O2D
13	A	863	CLA	CHA-CBD-CGD-O2D
13	B	806	CLA	CHA-CBD-CGD-O2D
13	B	814	CLA	CHA-CBD-CGD-O2D
13	B	835	CLA	CHA-CBD-CGD-O1D
13	B	835	CLA	CHA-CBD-CGD-O2D
13	B	842	CLA	CHA-CBD-CGD-O2D
13	B	843	CLA	CHA-CBD-CGD-O2D
13	A	821	CLA	CAA-CBA-CGA-O2A
15	B	802	BCR	C11-C10-C9-C8
19	B	804	LMG	C37-C38-C39-C40
13	A	826	CLA	C16-C17-C18-C19
13	A	810	CLA	CAA-CBA-CGA-O2A
13	B	829	CLA	CAA-CBA-CGA-O2A
13	J	101	CLA	CAA-CBA-CGA-O2A
13	B	841	CLA	O1A-CGA-O2A-C1
13	A	833	CLA	O1A-CGA-O2A-C1
13	B	840	CLA	CAA-CBA-CGA-O2A
12	B	851	LMT	C3'-C4'-O1B-C1B
13	B	808	CLA	CAA-CBA-CGA-O2A
12	B	827	LMT	C3-C4-C5-C6
13	A	811	CLA	C4-C3-C5-C6
13	B	831	CLA	CAA-CBA-CGA-O1A
13	A	806	CLA	C11-C12-C13-C15
13	A	809	CLA	C11-C10-C8-C7
13	A	811	CLA	C12-C13-C15-C16
13	A	814	CLA	C6-C7-C8-C10
13	A	818	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
13	B	813	CLA	C2-C3-C5-C6
13	B	848	CLA	C2-C3-C5-C6
13	A	827	CLA	C16-C17-C18-C19
13	A	816	CLA	C3-C5-C6-C7
13	A	814	CLA	C11-C10-C8-C9
13	A	818	CLA	C14-C13-C15-C16
13	A	858	CLA	C6-C7-C8-C9
13	B	805	CLA	C14-C13-C15-C16
13	B	818	CLA	C11-C10-C8-C9
13	B	833	CLA	C6-C7-C8-C9
13	B	844	CLA	C6-C7-C8-C9
13	B	850	CLA	C11-C12-C13-C14
13	F	201	CLA	C14-C13-C15-C16
13	A	819	CLA	CAA-CBA-CGA-O1A
13	A	821	CLA	C2B-C3B-CAB-CBB
13	B	838	CLA	C2B-C3B-CAB-CBB
13	B	839	CLA	CAA-CBA-CGA-O2A
21	X	101	SQD	C4-C5-C6-S
12	B	801	LMT	C5'-C4'-O1B-C1B
16	X	104	LHG	C12-C13-C14-C15
16	X	104	LHG	C29-C30-C31-C32
13	B	806	CLA	C2-C3-C5-C6
13	A	812	CLA	C1A-C2A-CAA-CBA
13	B	816	CLA	C1A-C2A-CAA-CBA
13	B	837	CLA	CAA-CBA-CGA-O1A
19	B	804	LMG	O9-C10-C11-C12
13	B	806	CLA	C5-C6-C7-C8
13	A	806	CLA	C8-C10-C11-C12
13	B	837	CLA	C10-C11-C12-C13
19	B	804	LMG	C18-C19-C20-C21
13	B	844	CLA	C2A-CAA-CBA-CGA
13	B	840	CLA	CAA-CBA-CGA-O1A
16	A	843	LHG	O10-C23-C24-C25
16	I	101	LHG	O10-C23-C24-C25
13	B	850	CLA	C4-C3-C5-C6
13	J	102	CLA	CAA-CBA-CGA-O2A
12	A	836	LMT	O5B-C1B-O1B-C4'
13	B	808	CLA	CAA-CBA-CGA-O1A
13	B	816	CLA	CAA-CBA-CGA-O1A
13	A	823	CLA	C2-C3-C5-C6
15	B	803	BCR	C23-C24-C25-C30
15	B	824	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
15	F	206	BCR	C23-C24-C25-C30
15	J	104	BCR	C23-C24-C25-C26
13	A	817	CLA	C8-C10-C11-C12
16	A	843	LHG	O8-C23-C24-C25
13	A	820	CLA	C2A-CAA-CBA-CGA
13	J	102	CLA	C2A-CAA-CBA-CGA
13	J	101	CLA	CAA-CBA-CGA-O1A
13	A	827	CLA	C4-C3-C5-C6
13	B	814	CLA	C4-C3-C5-C6
13	B	833	CLA	C4-C3-C5-C6
13	A	810	CLA	CAD-CBD-CGD-O1D
13	B	813	CLA	CAD-CBD-CGD-O1D
13	B	817	CLA	CAD-CBD-CGD-O1D
13	A	814	CLA	O1A-CGA-O2A-C1
13	J	102	CLA	C8-C10-C11-C12
13	A	817	CLA	C11-C12-C13-C14
13	A	818	CLA	C11-C10-C8-C9
13	A	820	CLA	C11-C10-C8-C9
13	A	833	CLA	C11-C12-C13-C14
13	B	819	CLA	C6-C7-C8-C9
13	A	859	CLA	C5-C6-C7-C8
13	A	821	CLA	CAA-CBA-CGA-O1A
13	A	851	CLA	CAA-CBA-CGA-O2A
13	B	819	CLA	CAA-CBA-CGA-O2A
13	B	809	CLA	C15-C16-C17-C18
16	X	104	LHG	C5-C4-O6-P
13	A	806	CLA	C13-C15-C16-C17
13	A	807	CLA	C11-C10-C8-C7
13	A	808	CLA	C11-C12-C13-C15
13	A	830	CLA	C11-C10-C8-C7
13	A	858	CLA	C11-C10-C8-C7
13	B	816	CLA	C3A-C2A-CAA-CBA
13	B	819	CLA	C6-C7-C8-C10
13	B	841	CLA	C11-C10-C8-C7
13	B	842	CLA	C11-C12-C13-C15
13	B	850	CLA	C11-C10-C8-C7
18	A	847	CL0	C6-C7-C8-C10
13	B	819	CLA	CAA-CBA-CGA-O1A
13	B	828	CLA	C15-C16-C17-C18
13	A	810	CLA	CAA-CBA-CGA-O1A
13	B	839	CLA	CAA-CBA-CGA-O1A
13	A	809	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
13	A	811	CLA	CAA-CBA-CGA-O2A
13	A	830	CLA	CAA-CBA-CGA-O2A
16	A	864	LHG	O8-C23-C24-C25
13	B	841	CLA	CBA-CGA-O2A-C1
13	B	842	CLA	CAA-CBA-CGA-O2A
13	B	845	CLA	CAA-CBA-CGA-O2A
13	X	102	CLA	CAA-CBA-CGA-O2A
12	A	836	LMT	C2B-C1B-O1B-C4'
13	A	822	CLA	C15-C16-C17-C18
13	A	851	CLA	CAA-CBA-CGA-O1A
13	J	102	CLA	CAA-CBA-CGA-O1A
13	A	808	CLA	C16-C17-C18-C20
13	A	816	CLA	C5-C6-C7-C8
13	B	847	CLA	C8-C10-C11-C12
16	A	852	LHG	O8-C23-C24-C25

There are no ring outliers.

108 monomers are involved in 285 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
15	B	825	BCR	2	0
13	A	860	CLA	5	0
13	B	829	CLA	1	0
13	A	810	CLA	2	0
16	A	843	LHG	1	0
17	C	1001	SF4	1	0
15	A	842	BCR	3	0
15	F	202	BCR	4	0
13	B	808	CLA	2	0
13	A	805	CLA	1	0
13	B	806	CLA	3	0
12	B	827	LMT	1	0
13	A	816	CLA	1	0
13	A	826	CLA	6	0
13	A	848	CLA	4	0
13	F	204	CLA	5	0
13	K	104	CLA	5	0
12	B	851	LMT	1	0
15	M	101	BCR	1	0
12	A	802	LMT	1	0
13	A	811	CLA	5	0
13	A	832	CLA	10	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	A	859	CLA	3	0
13	A	820	CLA	10	0
13	B	805	CLA	3	0
13	B	814	CLA	4	0
13	A	861	CLA	4	0
15	A	862	BCR	5	0
15	B	802	BCR	3	0
13	A	856	CLA	7	0
15	A	838	BCR	5	0
13	A	822	CLA	5	0
13	B	820	CLA	3	0
15	B	803	BCR	6	0
13	A	812	CLA	4	0
13	A	850	CLA	3	0
15	A	840	BCR	8	0
15	B	822	BCR	5	0
13	B	834	CLA	2	0
13	J	102	CLA	3	0
13	B	840	CLA	2	0
15	A	839	BCR	4	0
13	B	819	CLA	2	0
13	A	824	CLA	5	0
13	F	201	CLA	1	0
12	A	845	LMT	1	0
13	B	845	CLA	9	0
13	X	102	CLA	1	0
13	A	808	CLA	4	0
13	B	807	CLA	3	0
13	B	850	CLA	1	0
13	B	849	CLA	2	0
15	J	104	BCR	4	0
13	A	809	CLA	2	0
13	B	842	CLA	4	0
13	B	815	CLA	5	0
15	B	826	BCR	2	0
13	A	815	CLA	1	0
15	A	841	BCR	5	0
15	F	206	BCR	4	0
13	A	863	CLA	2	0
13	B	816	CLA	5	0
13	A	851	CLA	5	0
13	A	817	CLA	3	0

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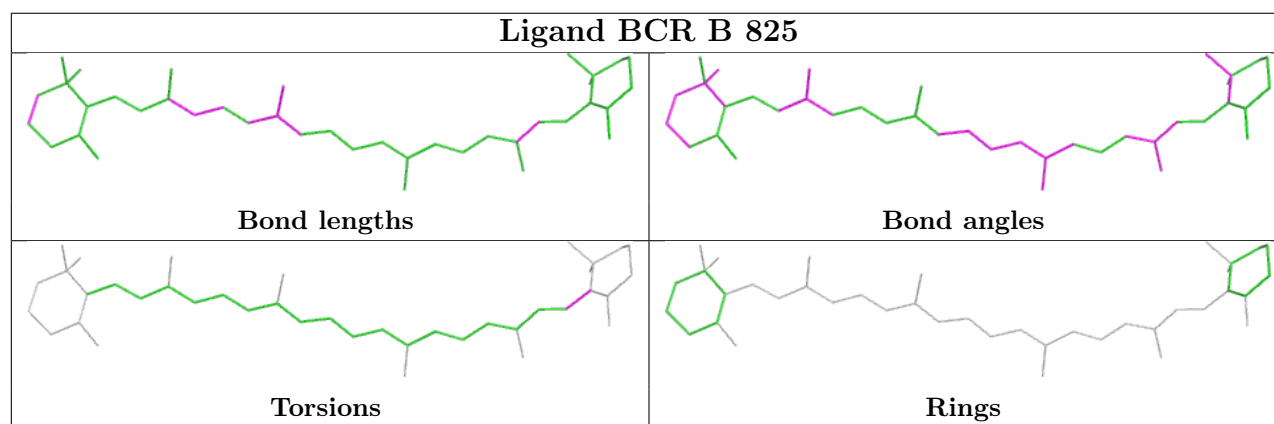
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13	A	857	CLA	2	0
13	B	818	CLA	2	0
15	F	203	BCR	2	0
16	X	104	LHG	2	0
13	A	828	CLA	3	0
13	A	829	CLA	4	0
13	A	855	CLA	2	0
13	A	853	CLA	3	0
13	B	811	CLA	1	0
13	K	101	CLA	6	0
13	A	821	CLA	1	0
13	B	847	CLA	4	0
12	A	835	LMT	2	0
13	A	831	CLA	3	0
13	A	833	CLA	1	0
13	B	833	CLA	4	0
13	B	810	CLA	2	0
13	A	844	CLA	1	0
13	A	830	CLA	1	0
13	B	835	CLA	1	0
15	K	103	BCR	7	0
15	B	824	BCR	4	0
13	A	813	CLA	2	0
13	A	825	CLA	11	0
12	A	834	LMT	3	0
13	B	841	CLA	4	0
13	B	838	CLA	1	0
13	A	806	CLA	1	0
13	B	843	CLA	7	0
13	A	814	CLA	1	0
13	B	831	CLA	3	0
13	A	823	CLA	8	0
13	A	849	CLA	2	0
13	A	858	CLA	2	0
13	B	844	CLA	3	0
13	A	819	CLA	2	0
13	B	832	CLA	1	0
13	J	101	CLA	1	0
15	J	103	BCR	4	0
13	B	813	CLA	4	0
13	A	818	CLA	1	0

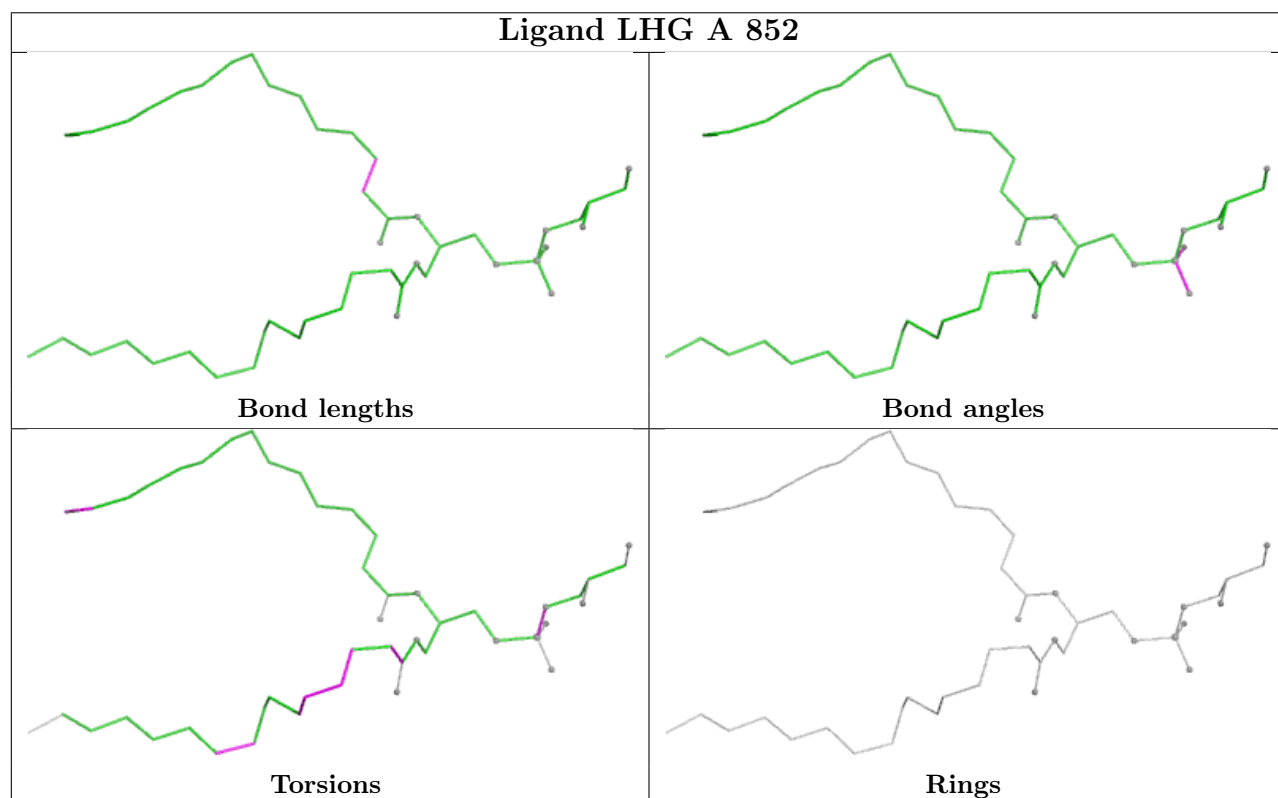
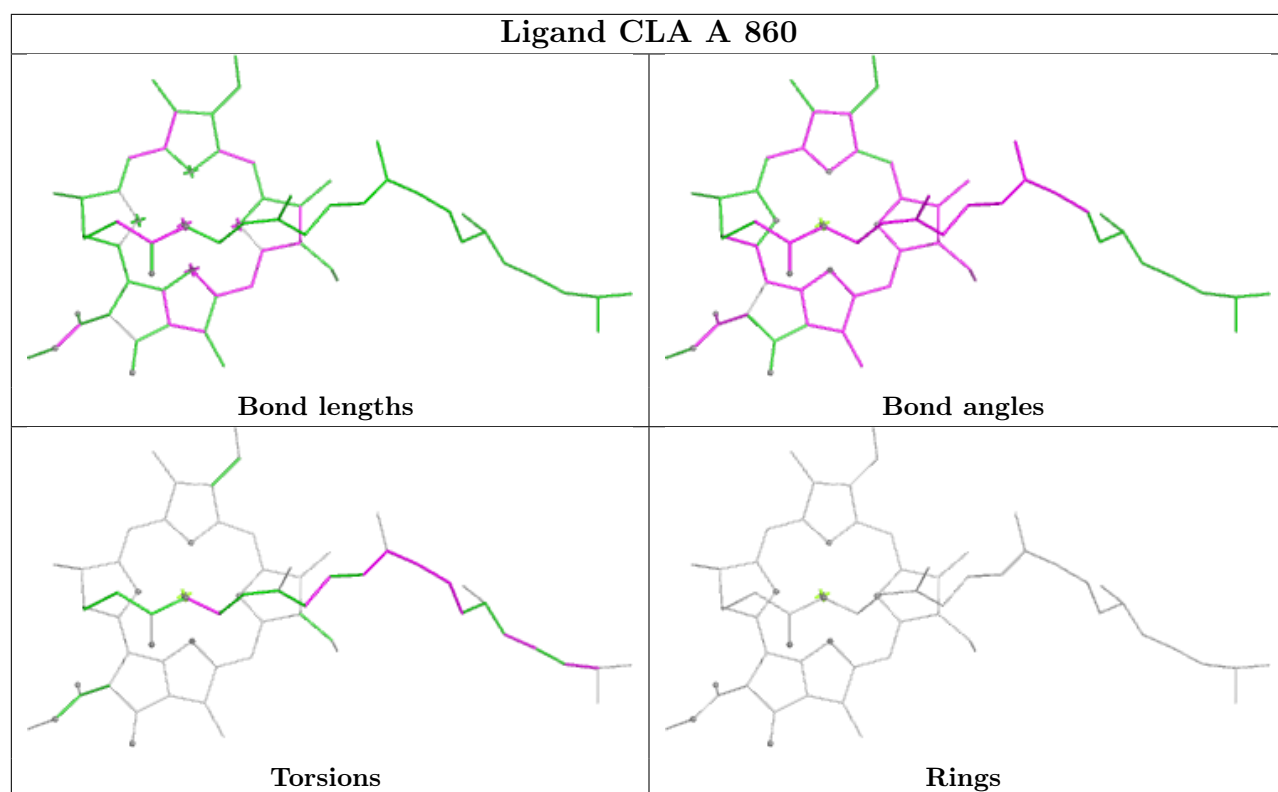
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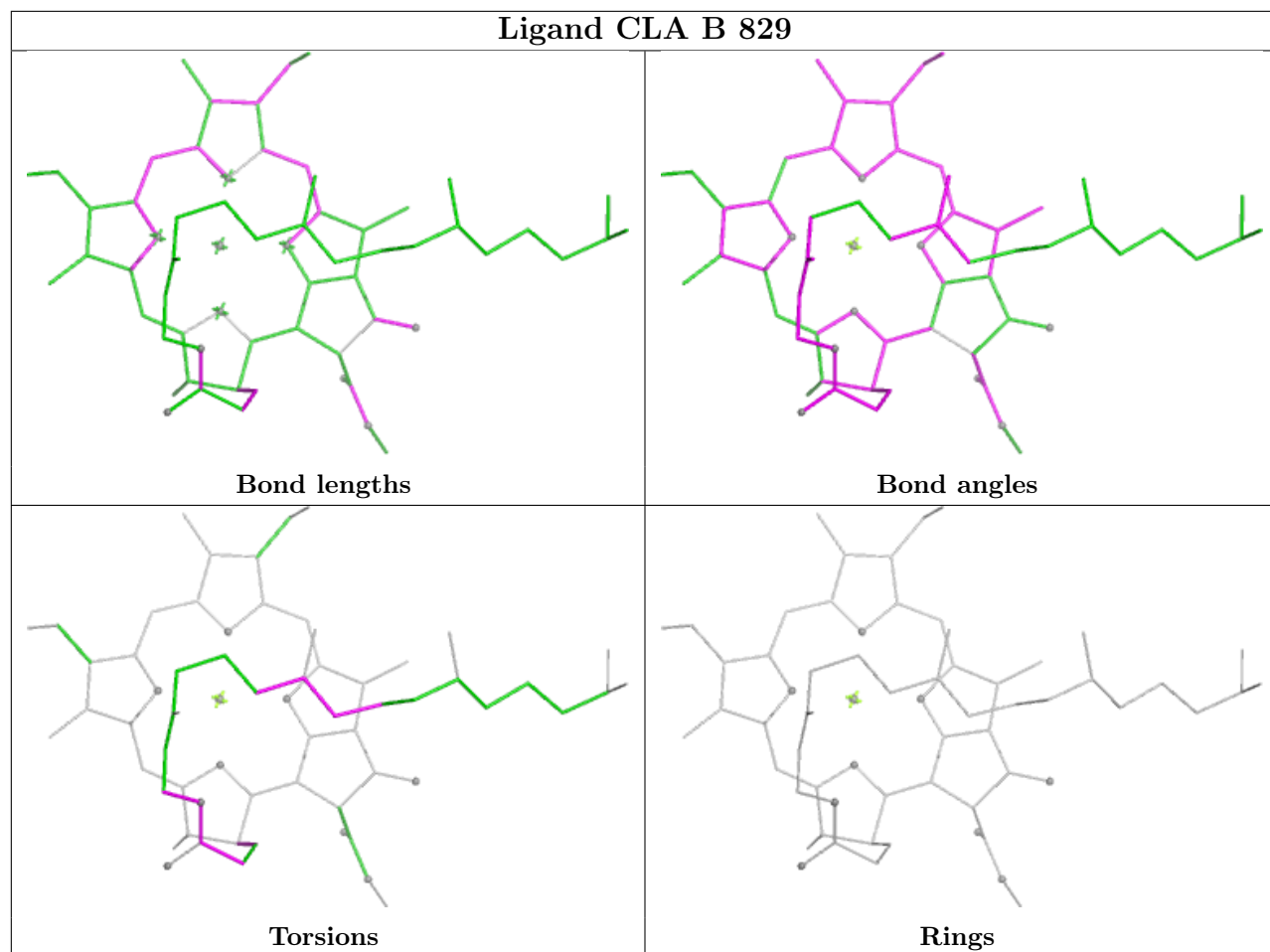
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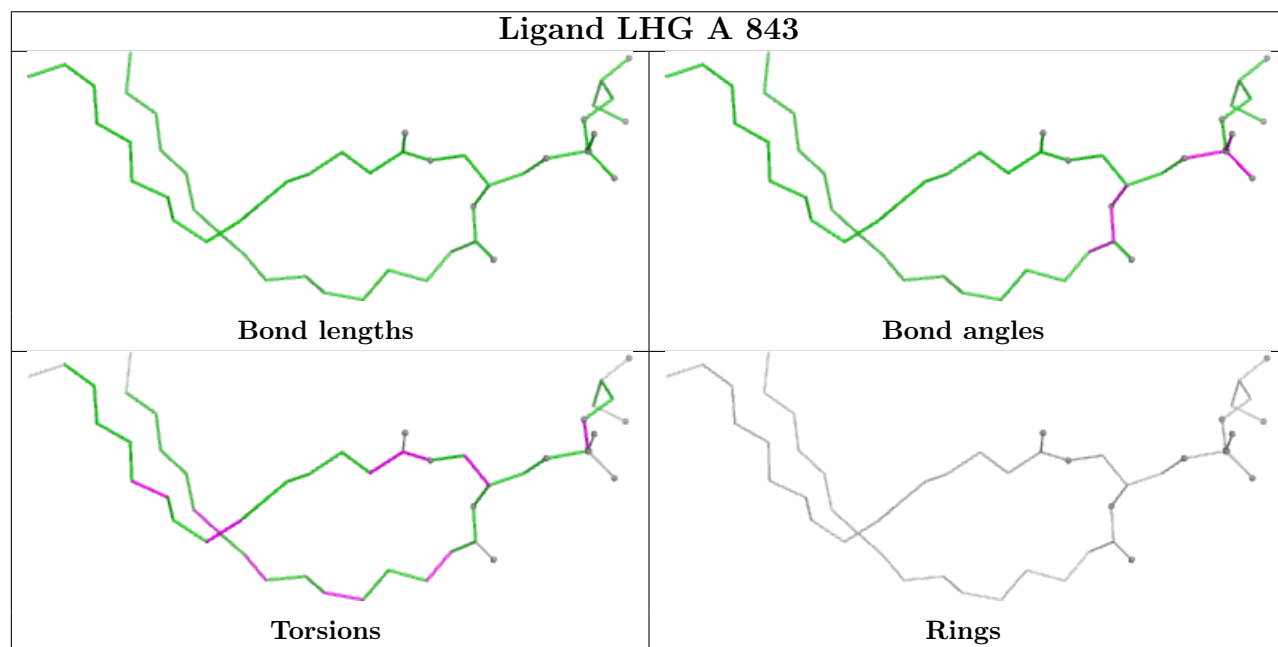
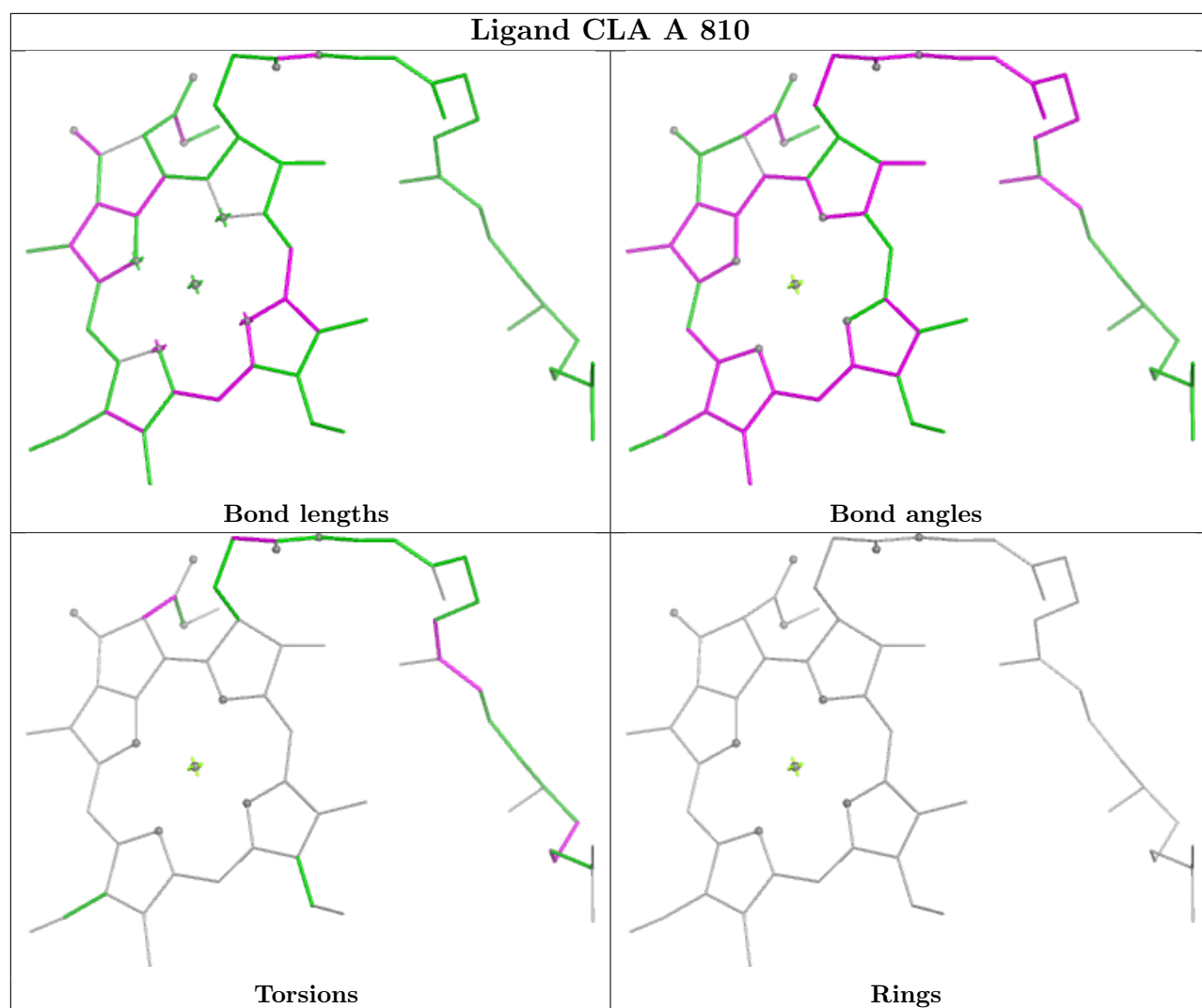
Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	B	809	CLA	2	0
13	B	846	CLA	3	0

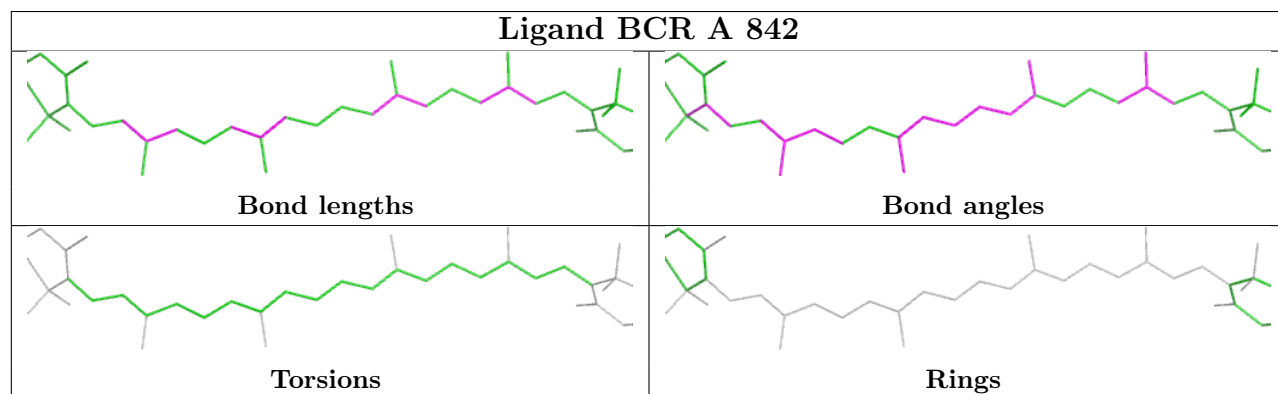
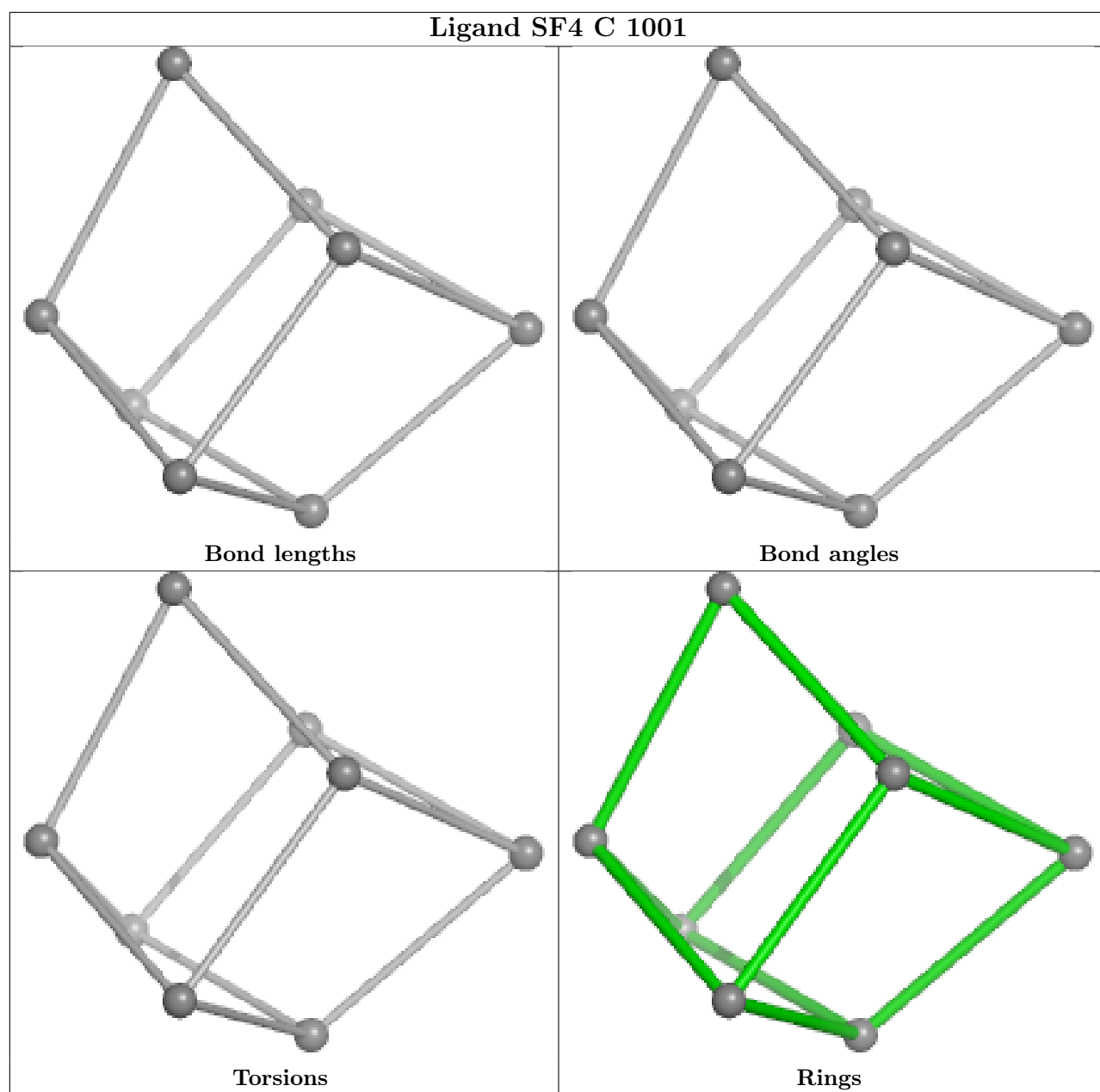
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

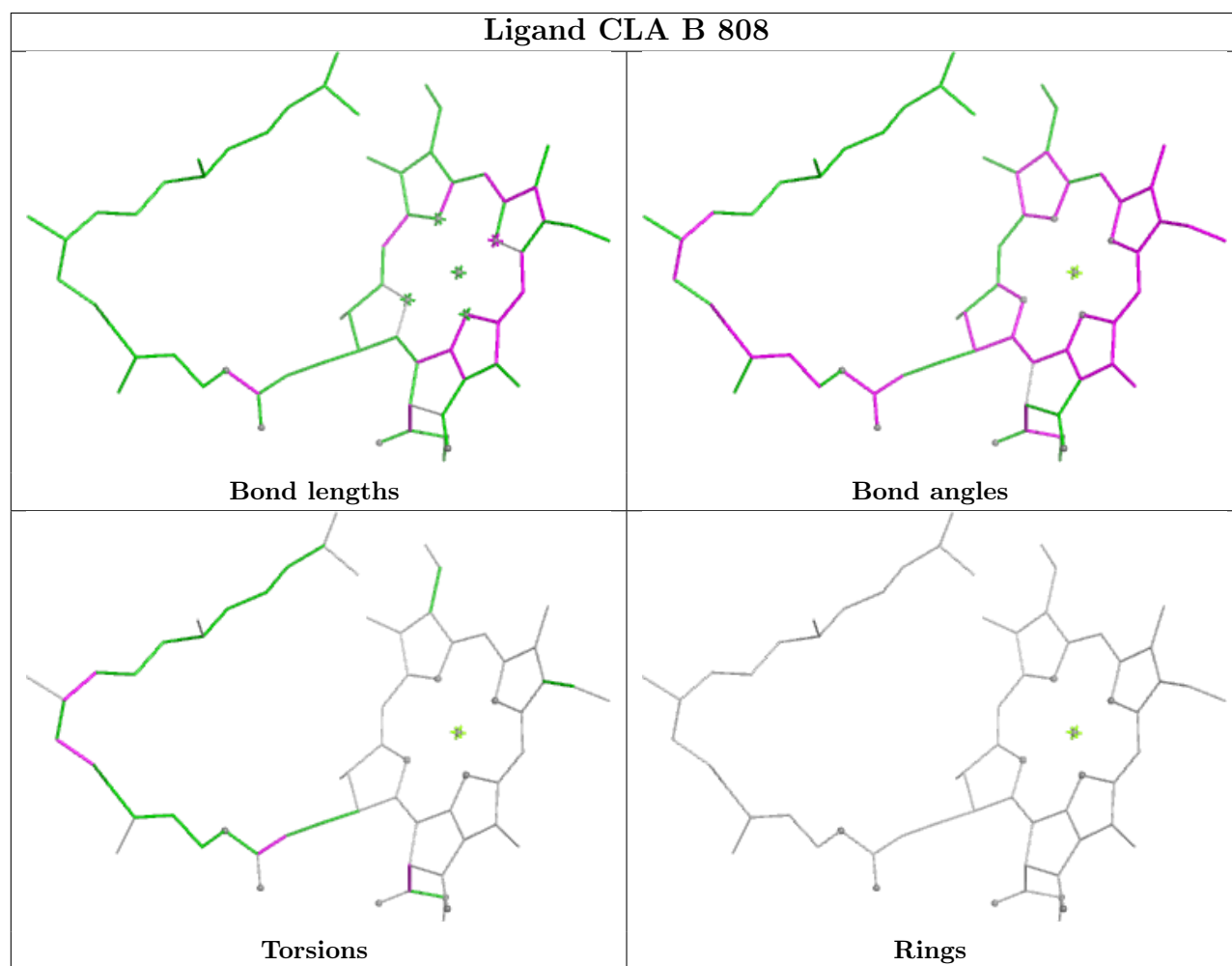
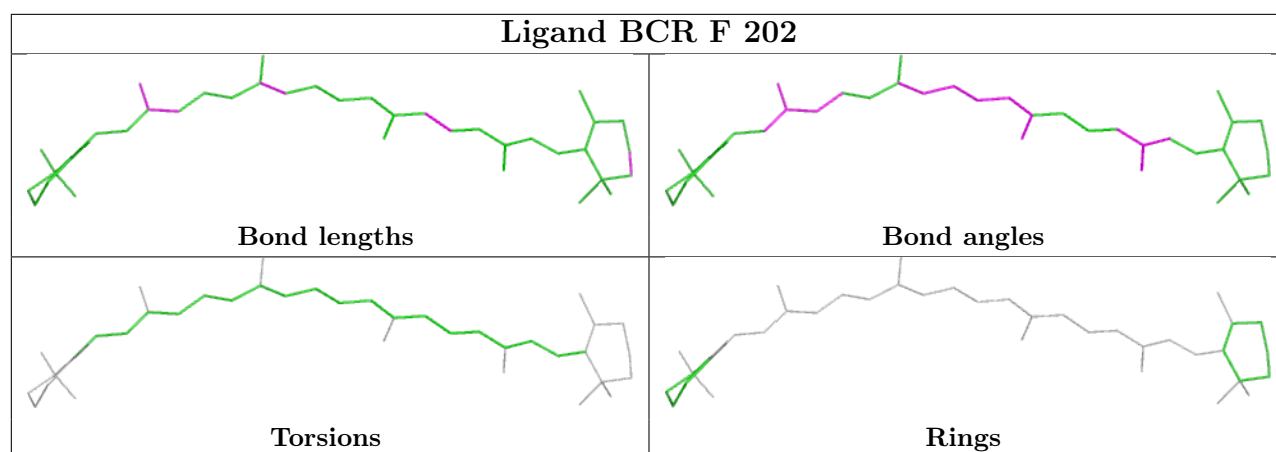


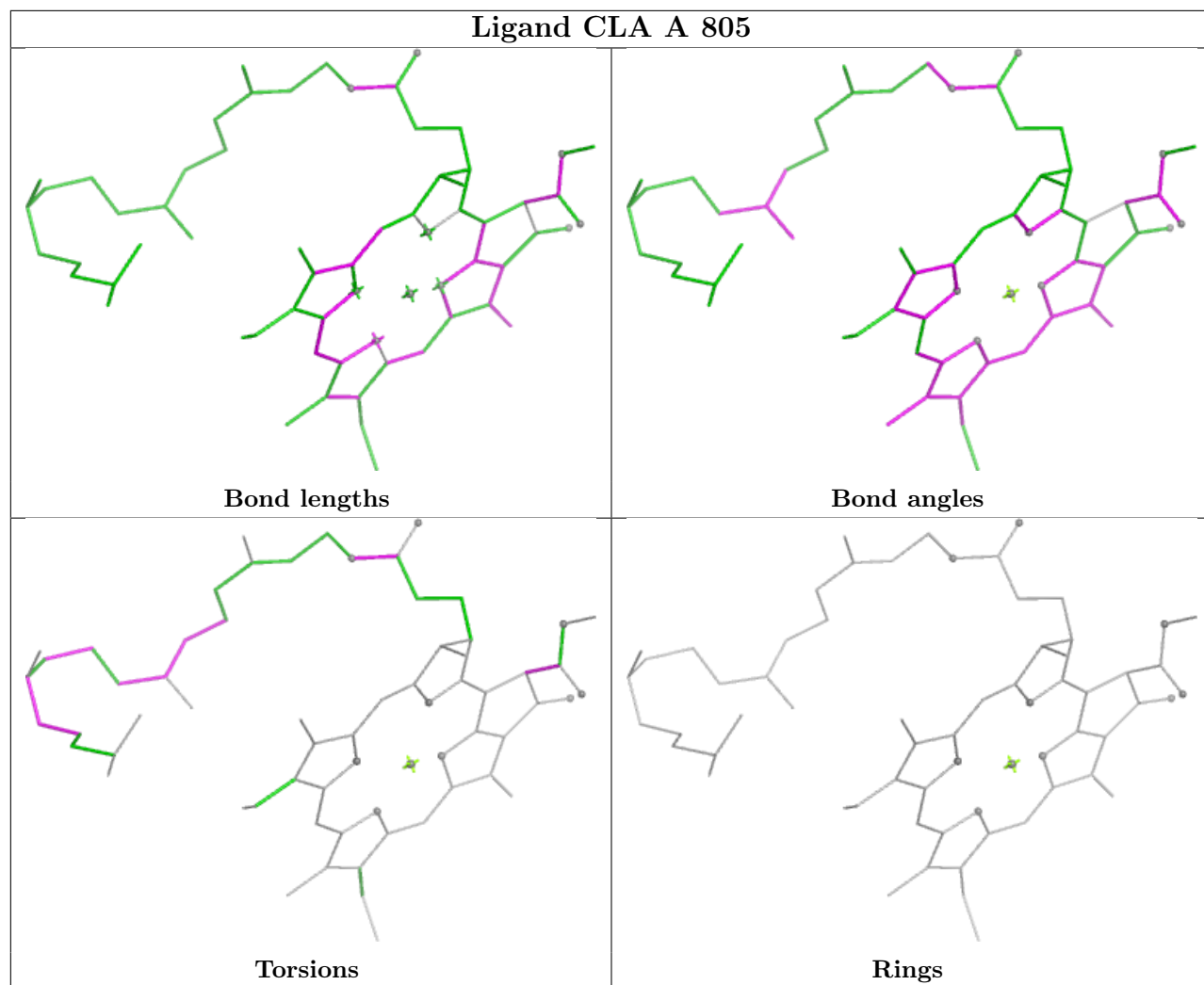


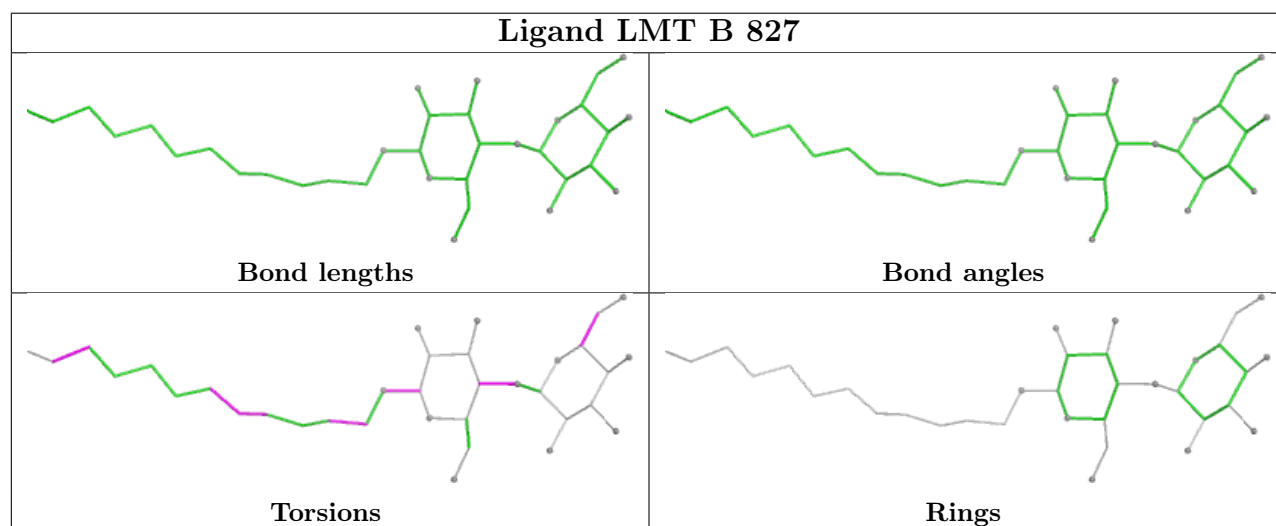
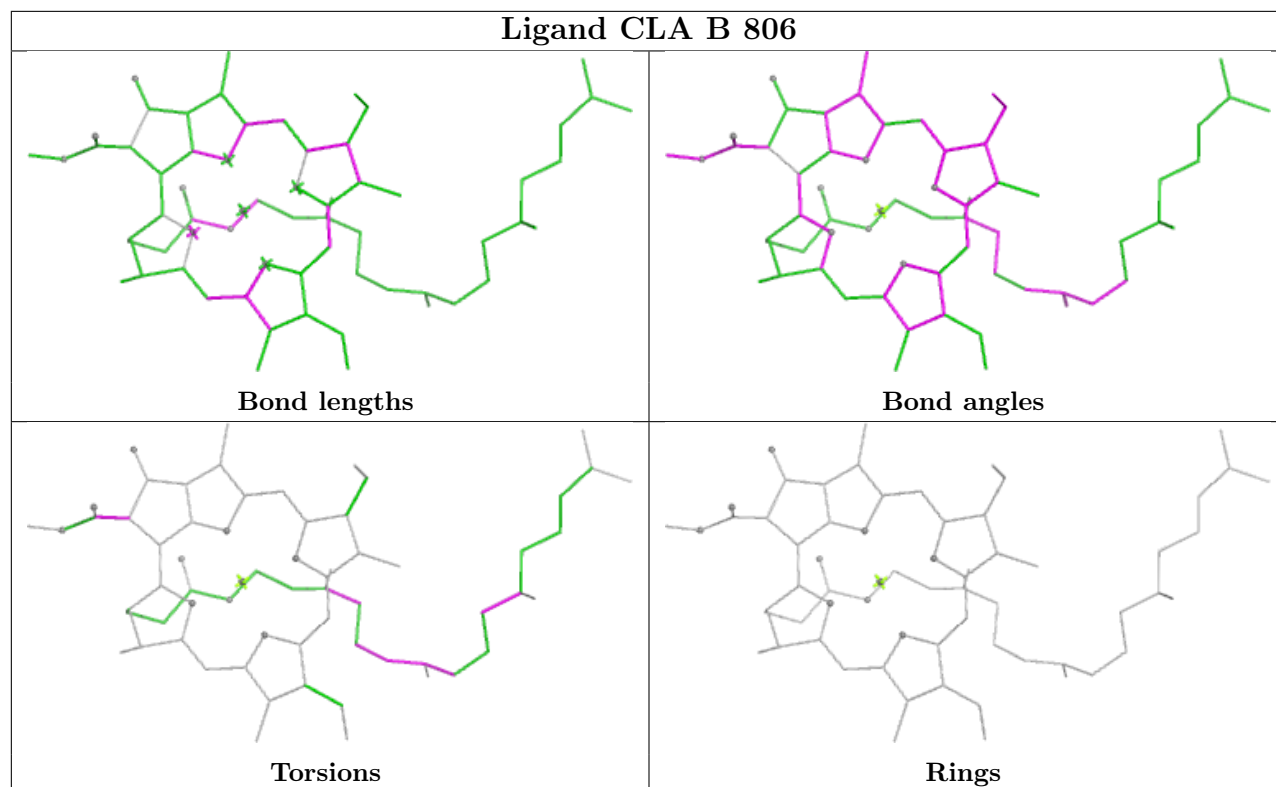


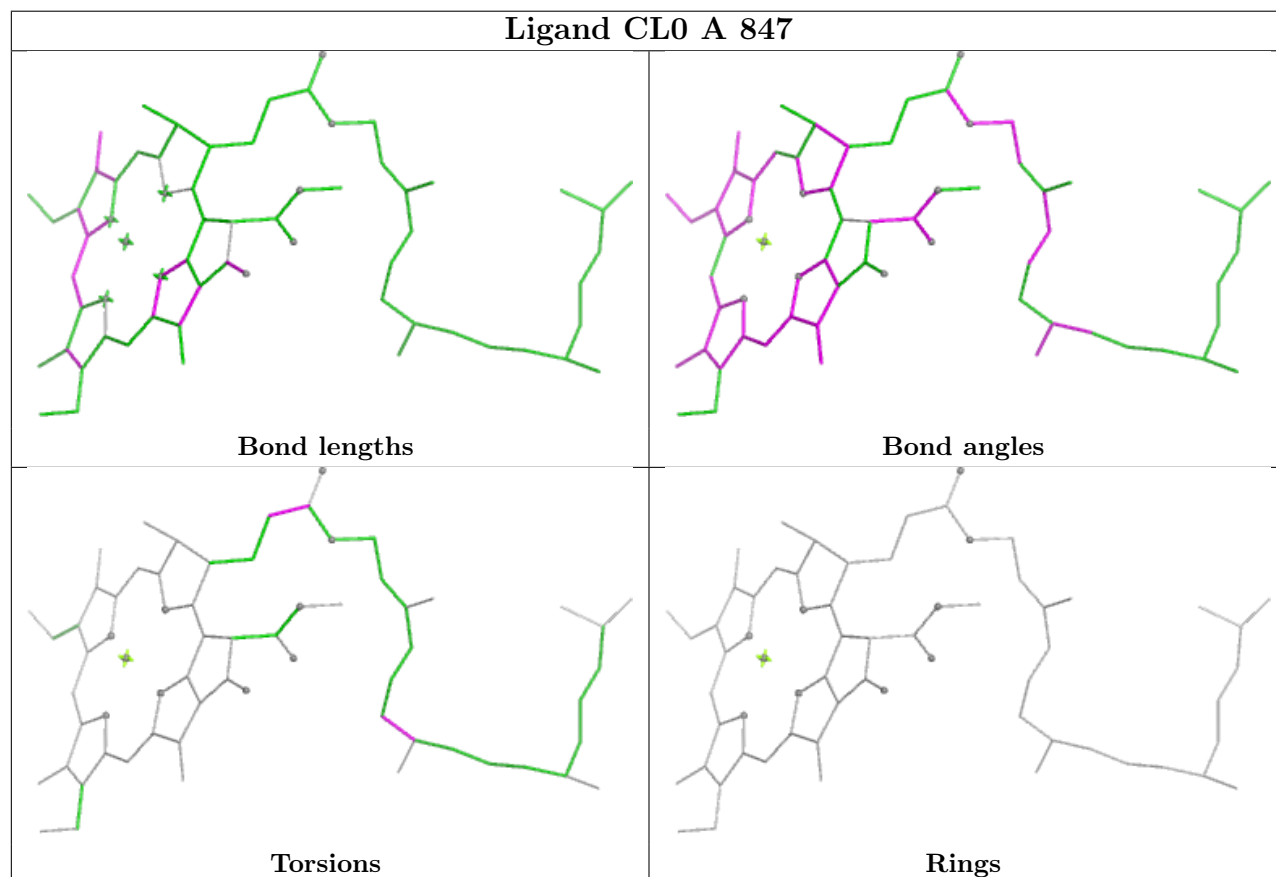
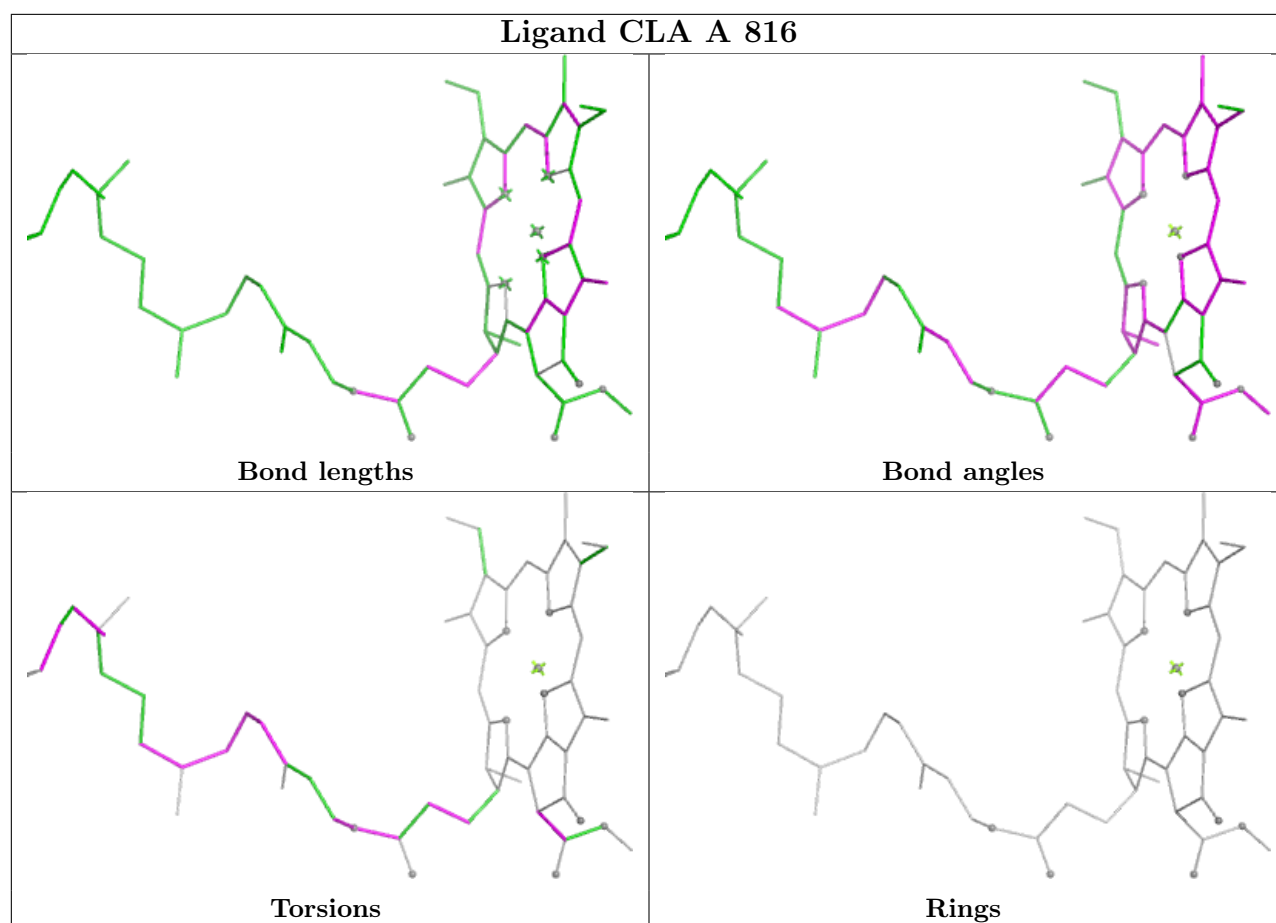


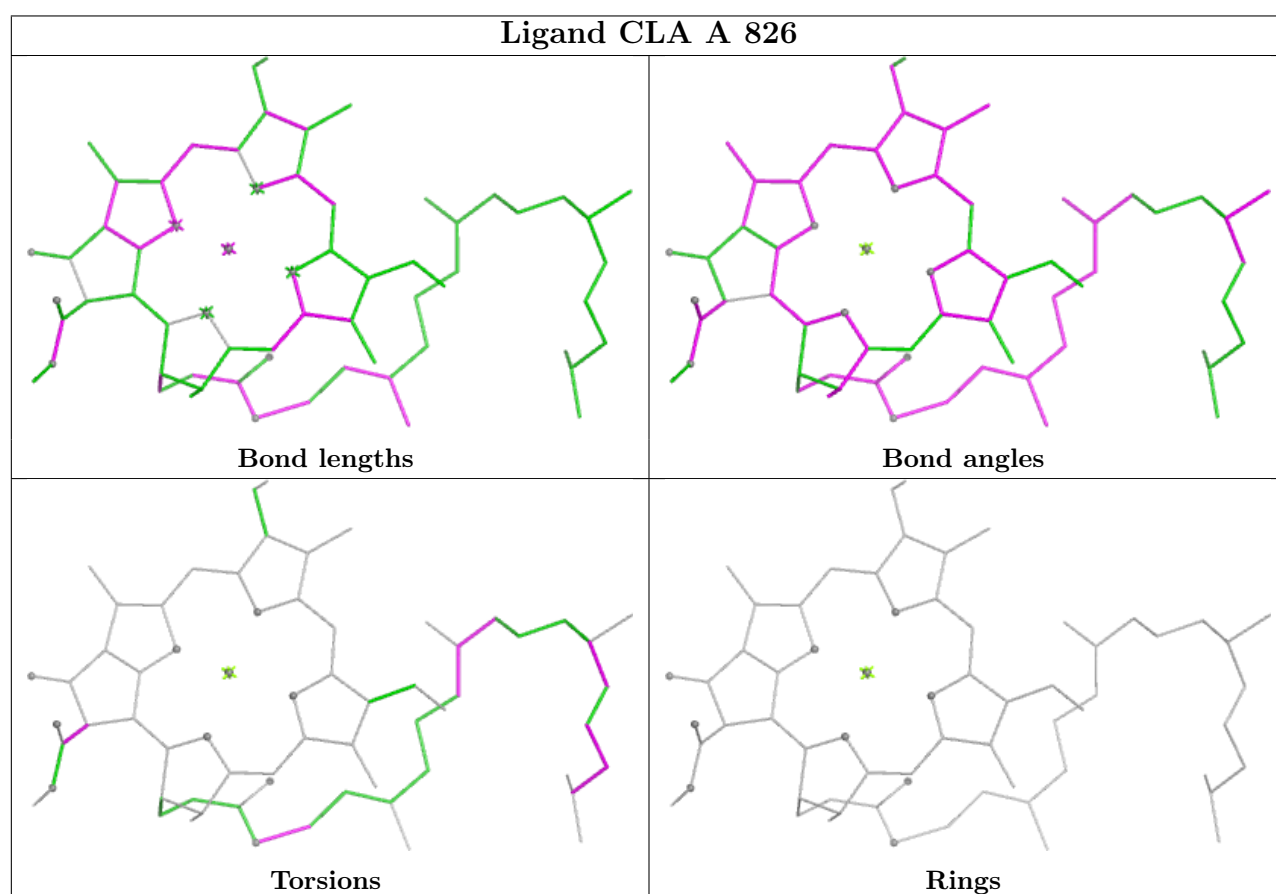
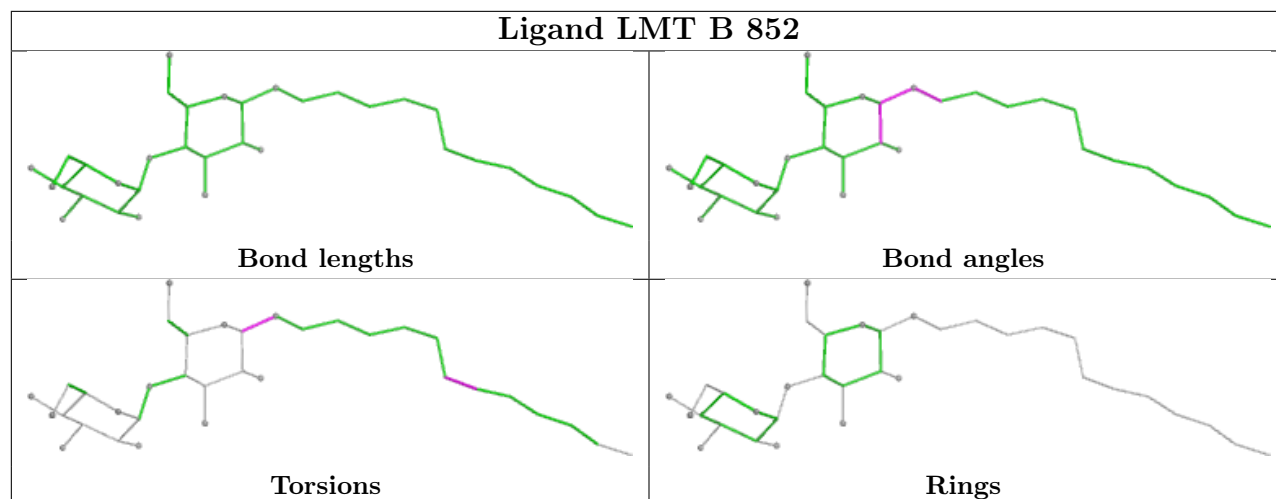


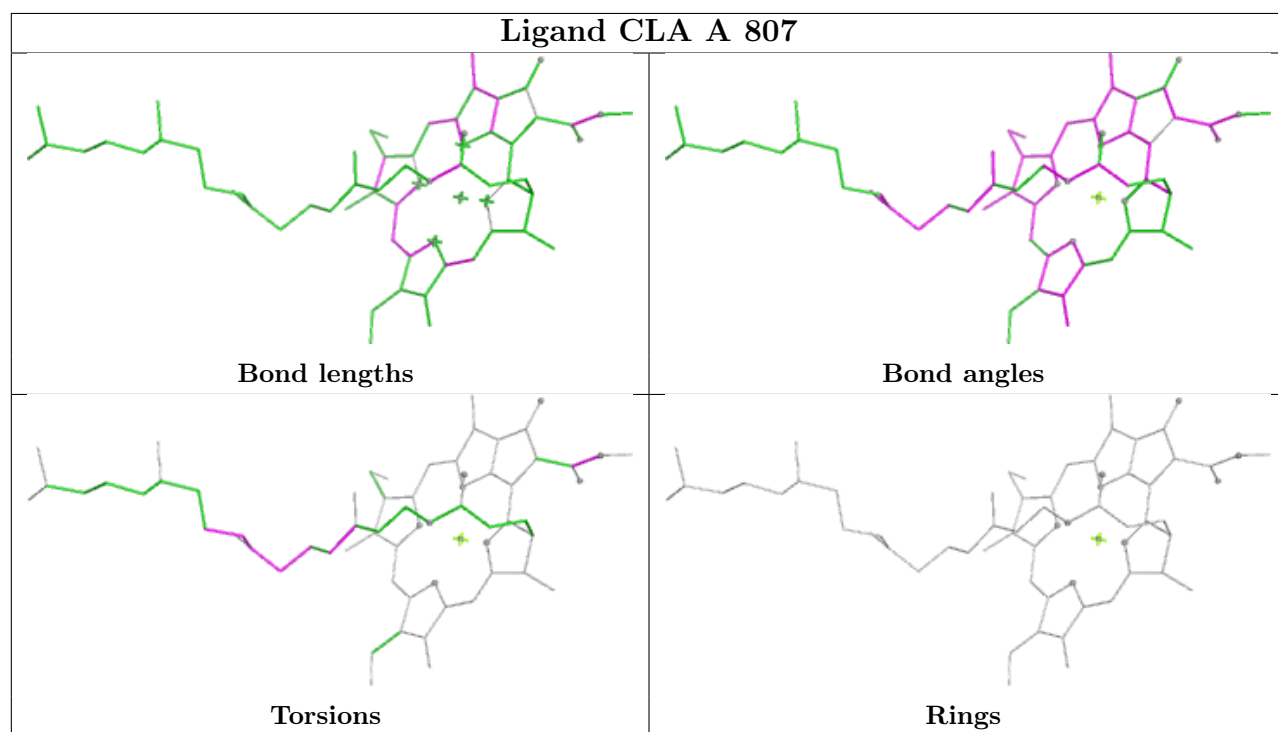
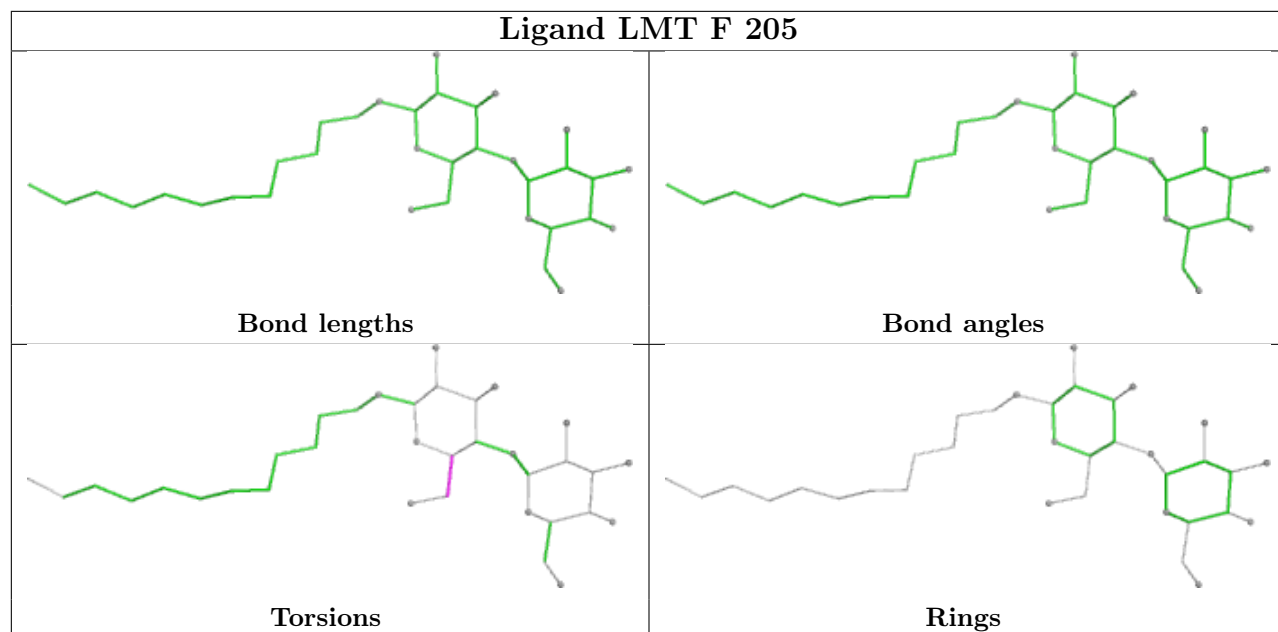


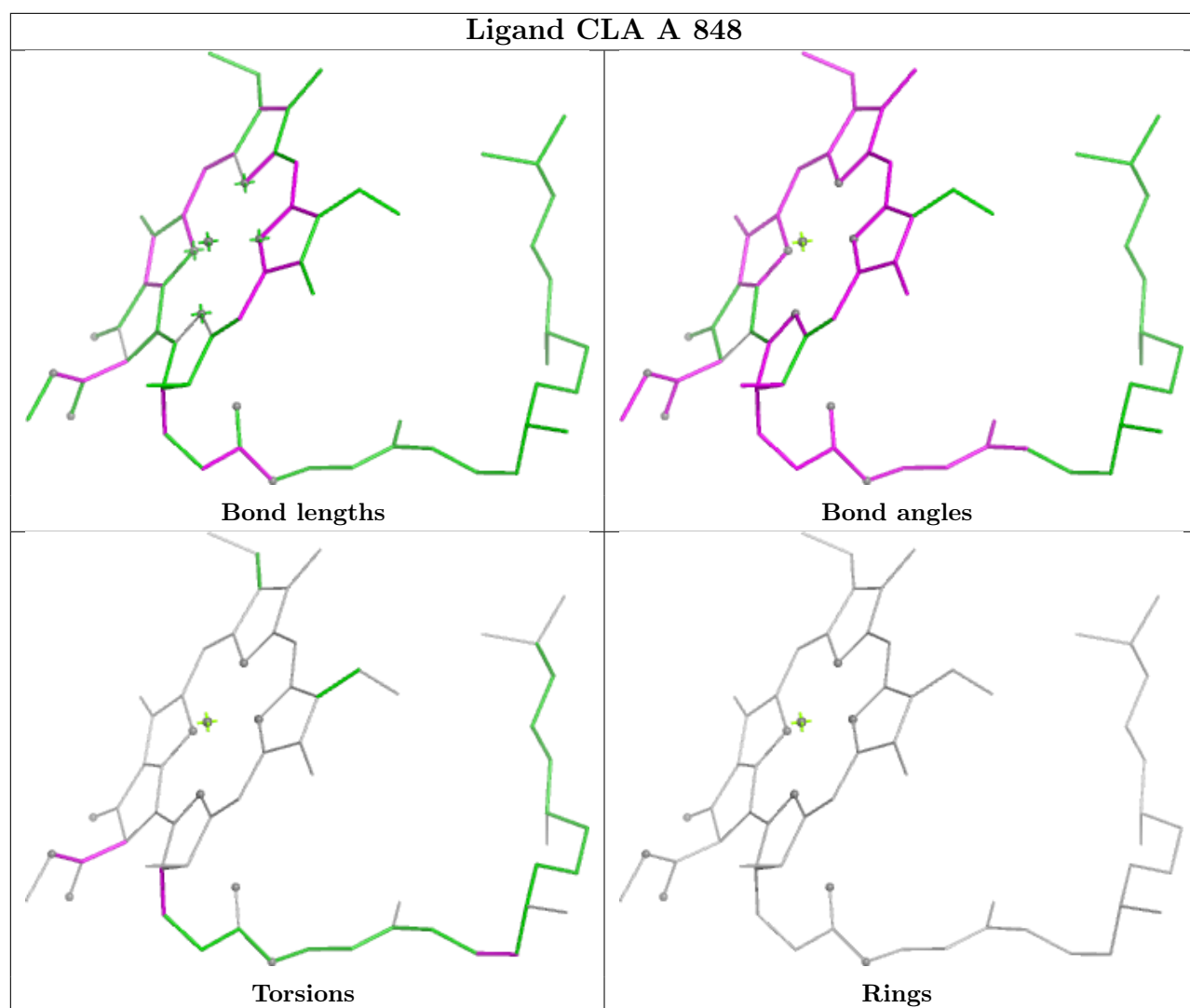


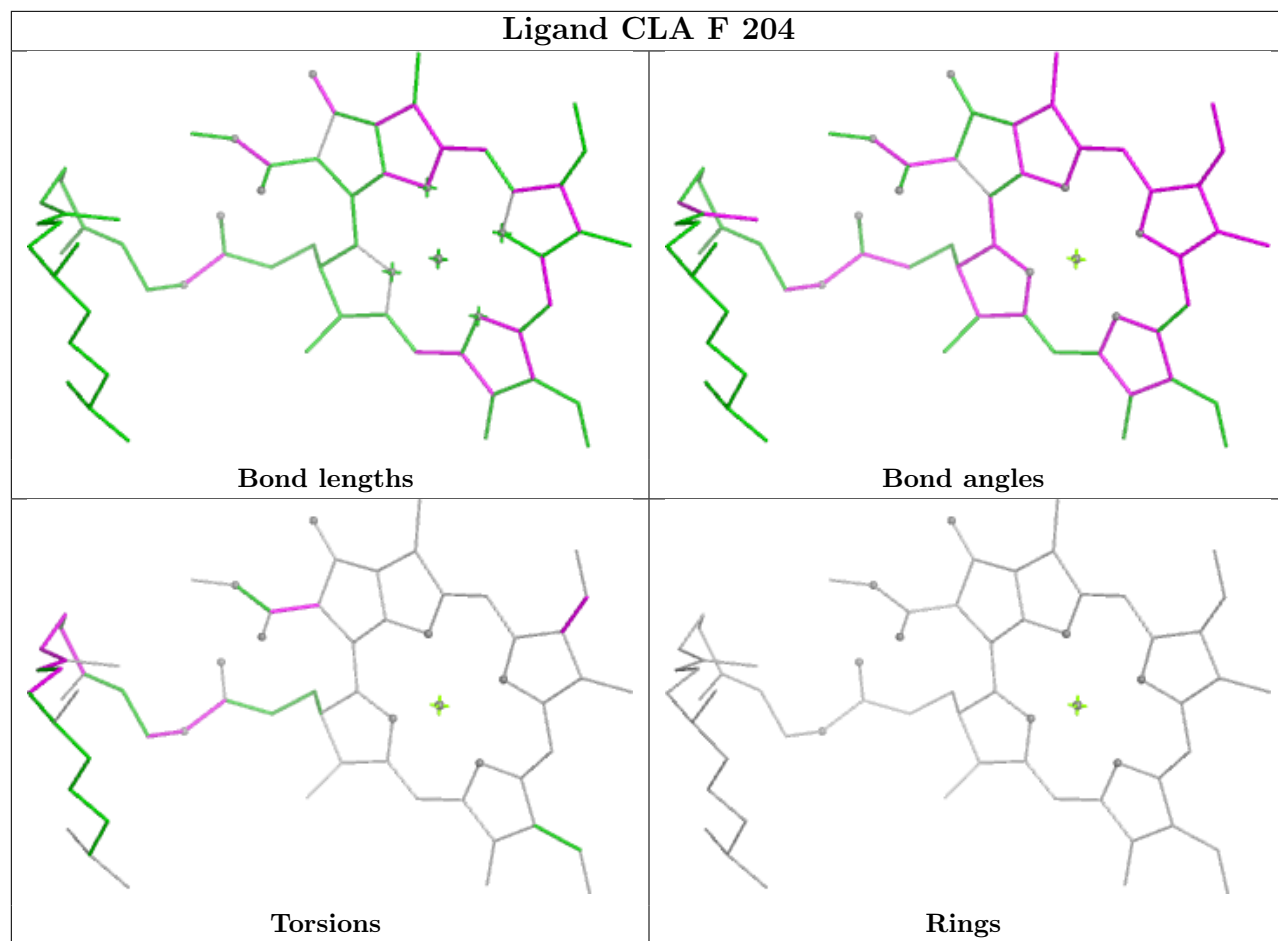


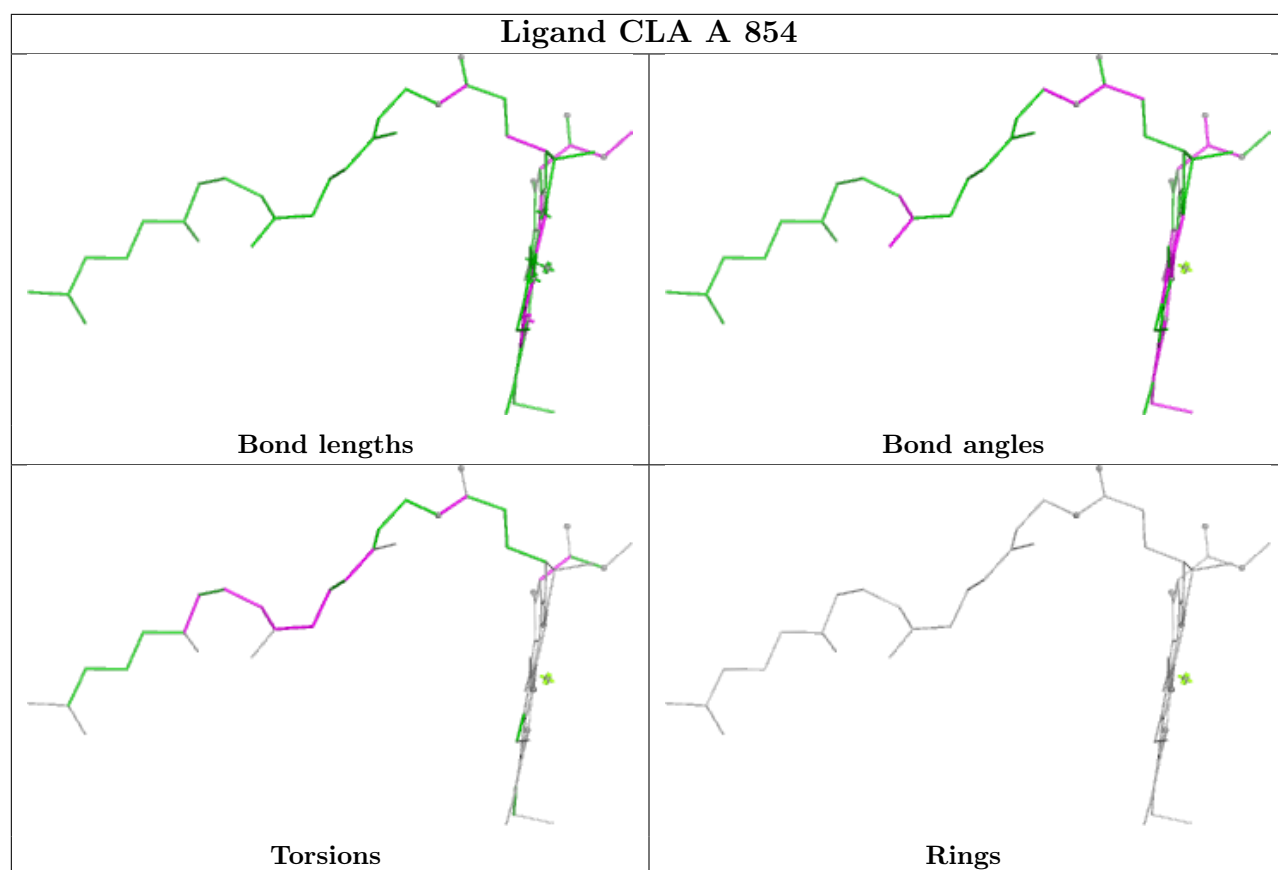


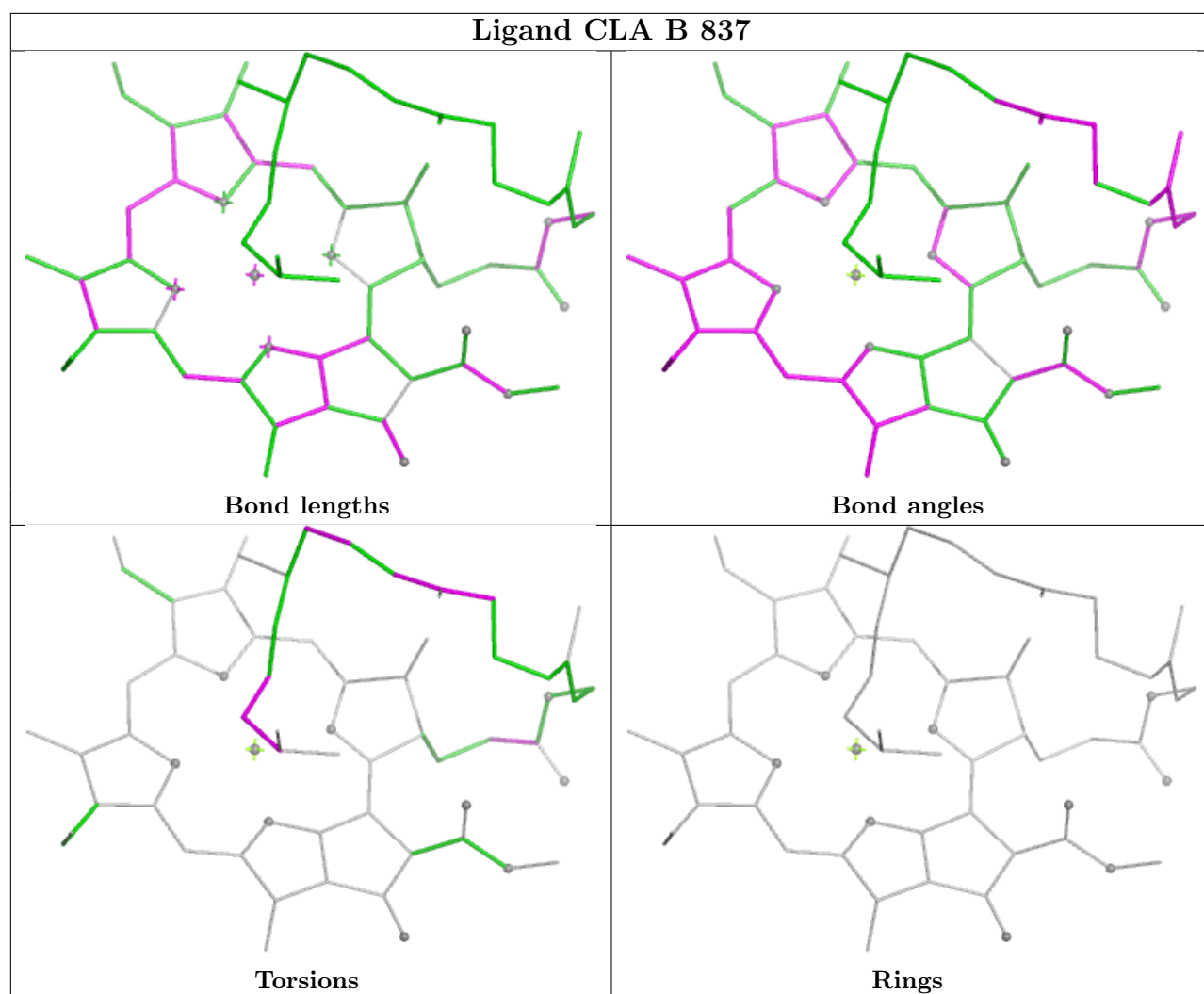


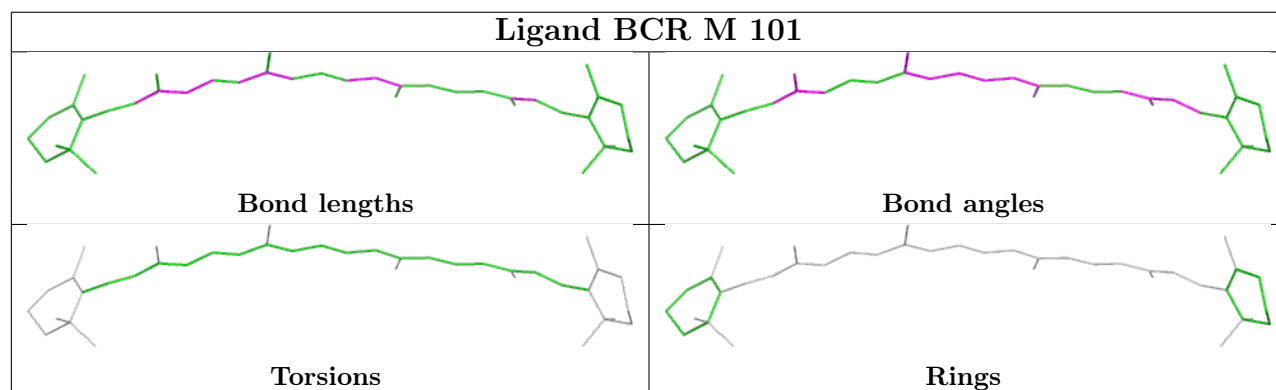
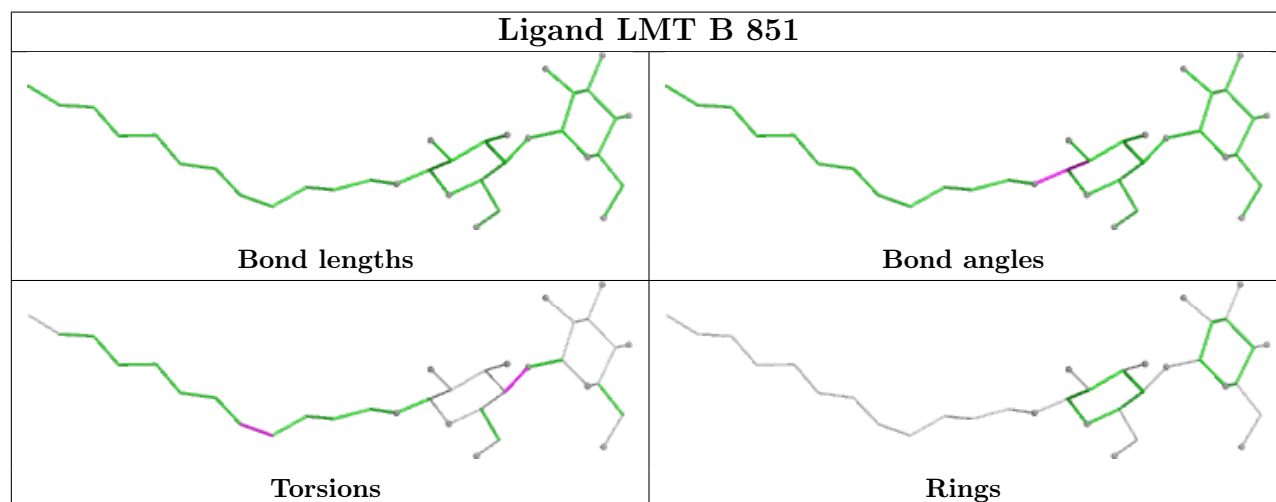
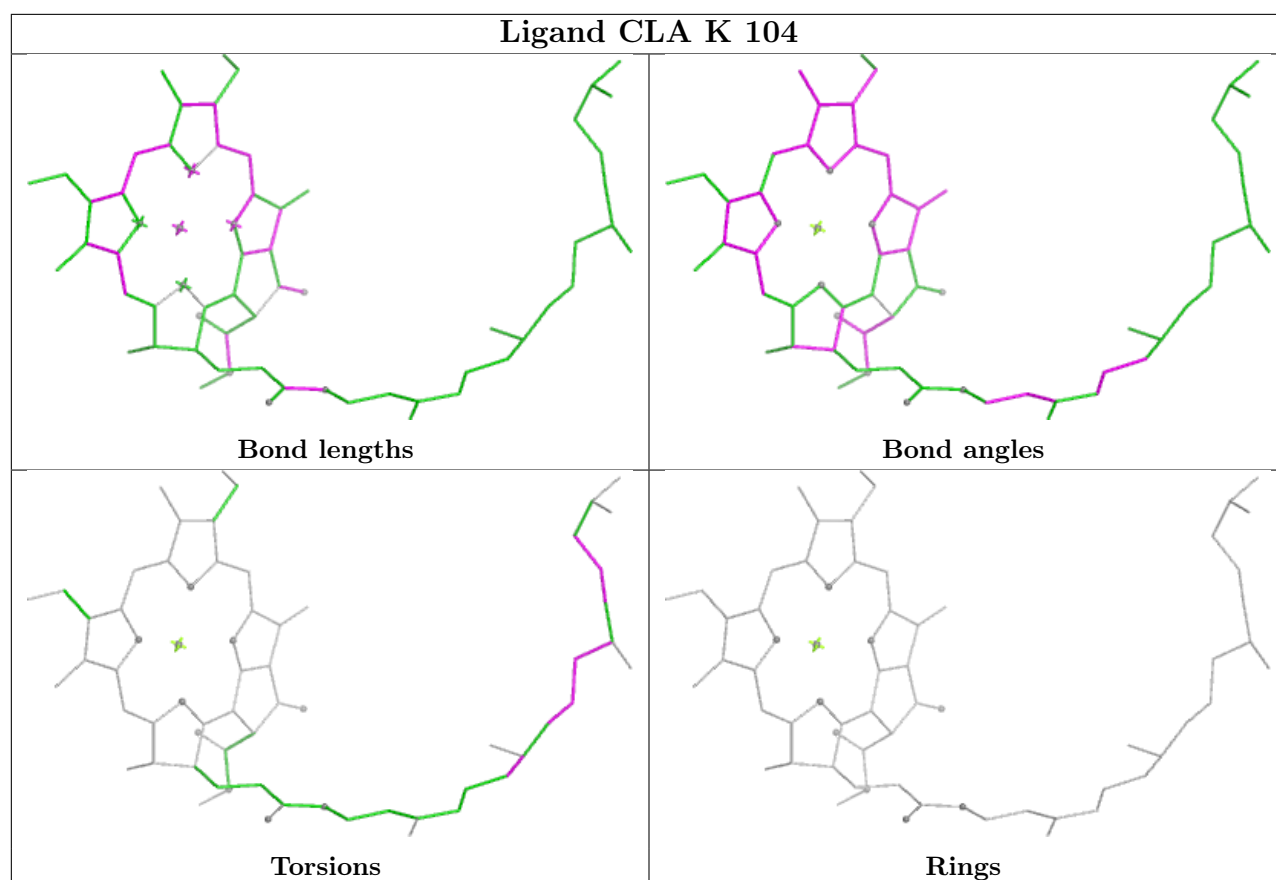


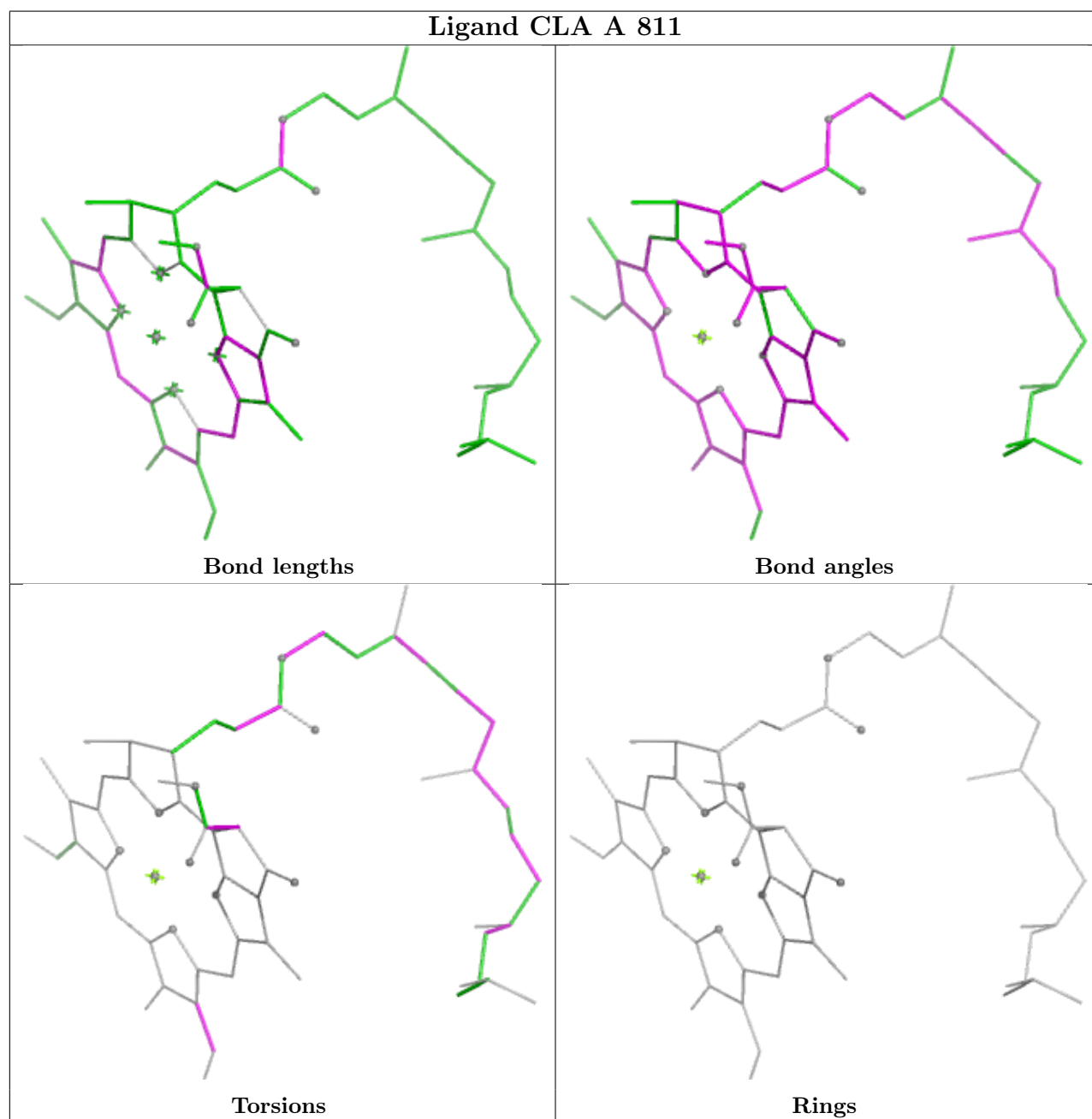
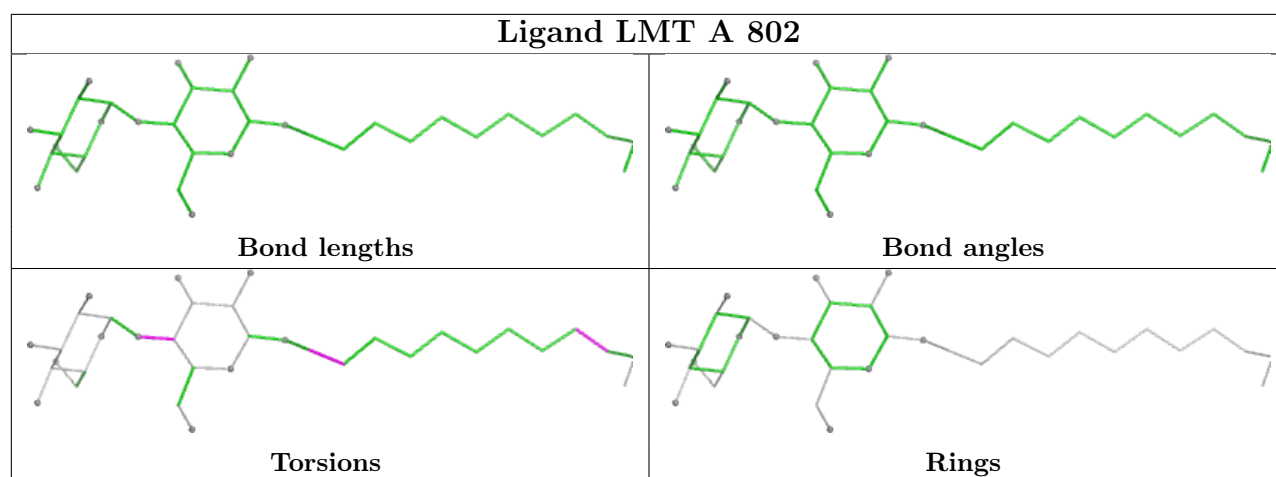


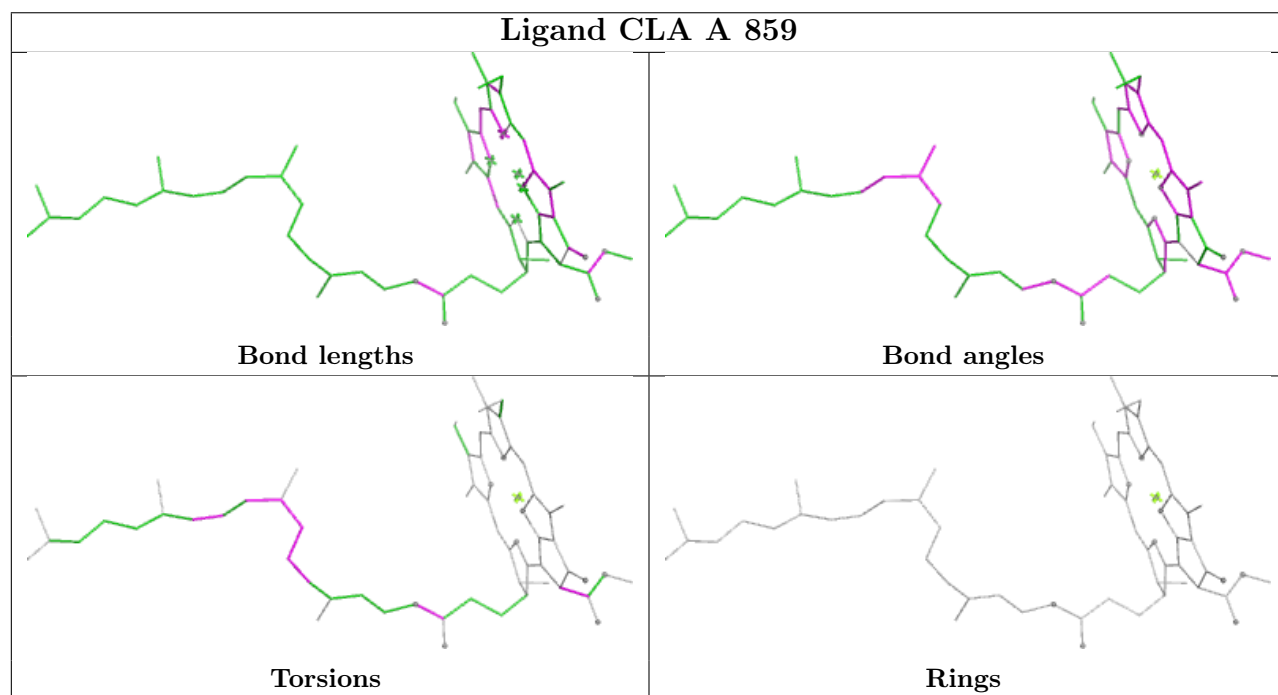
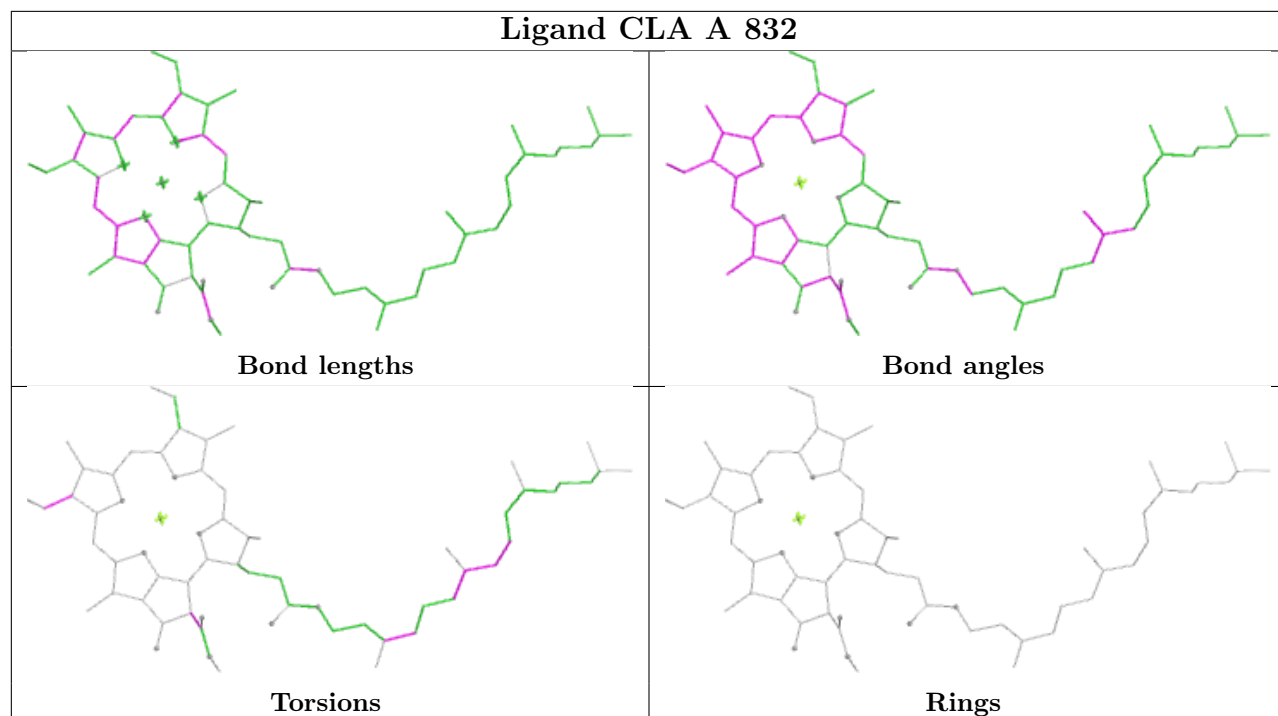


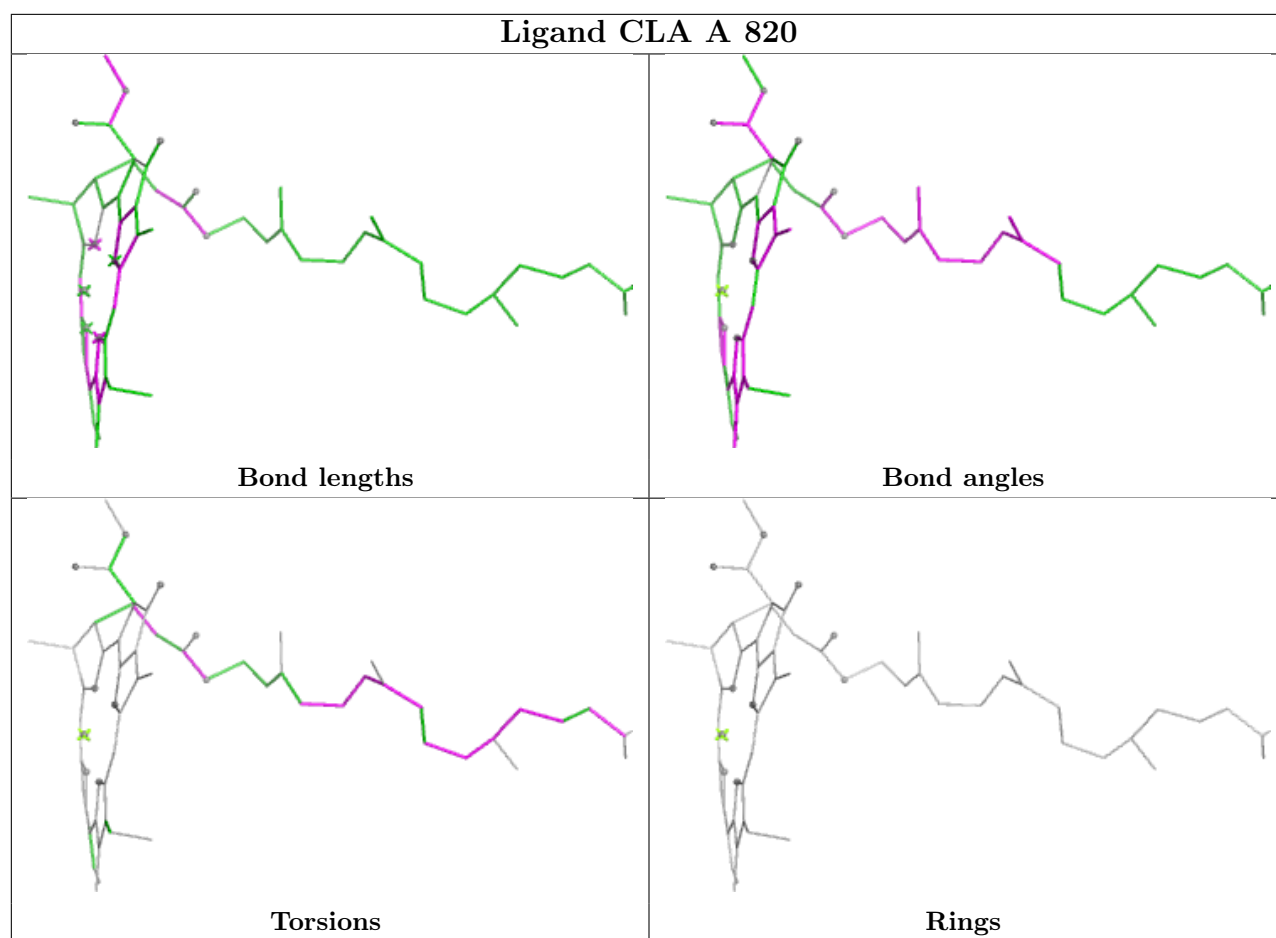


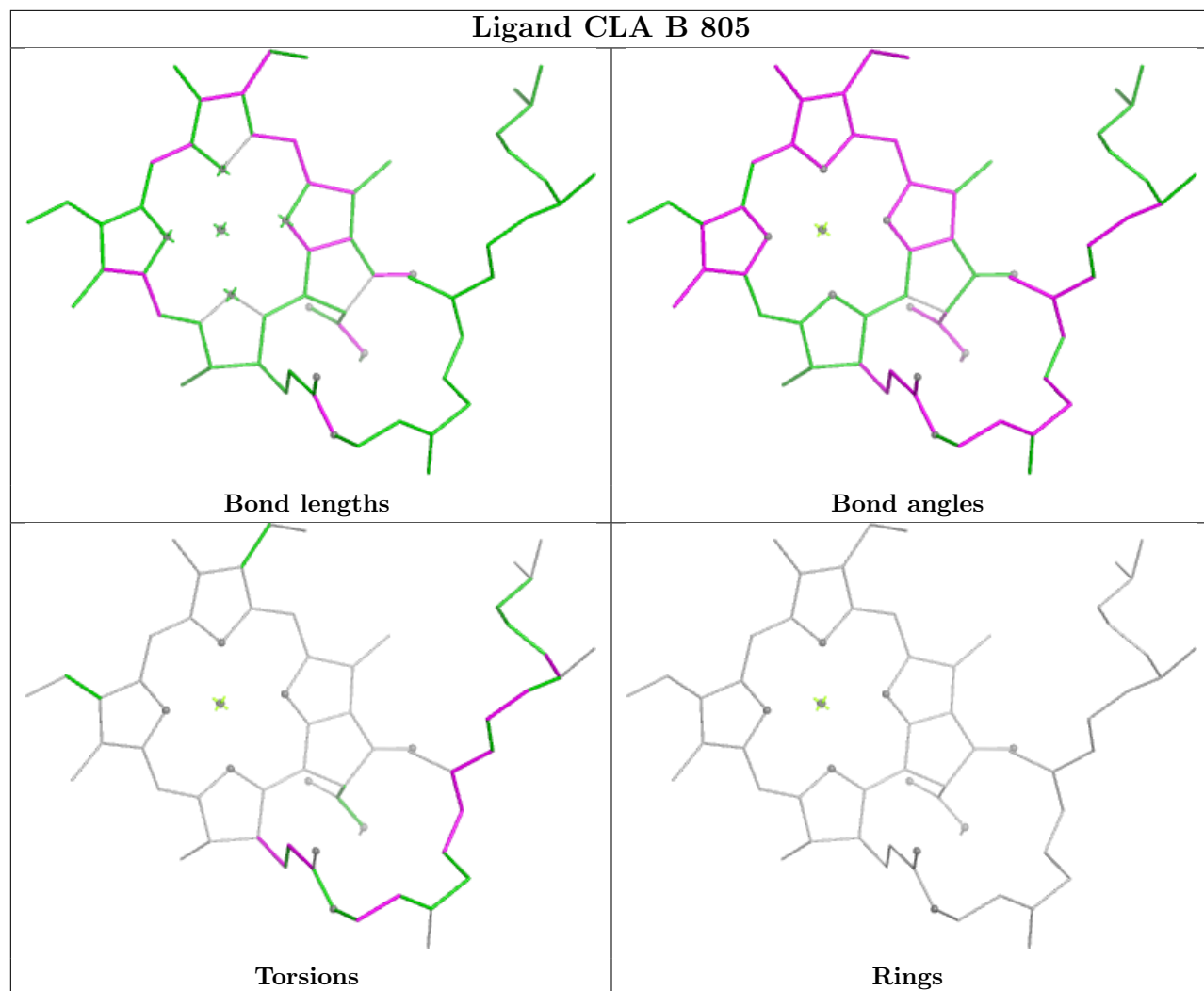


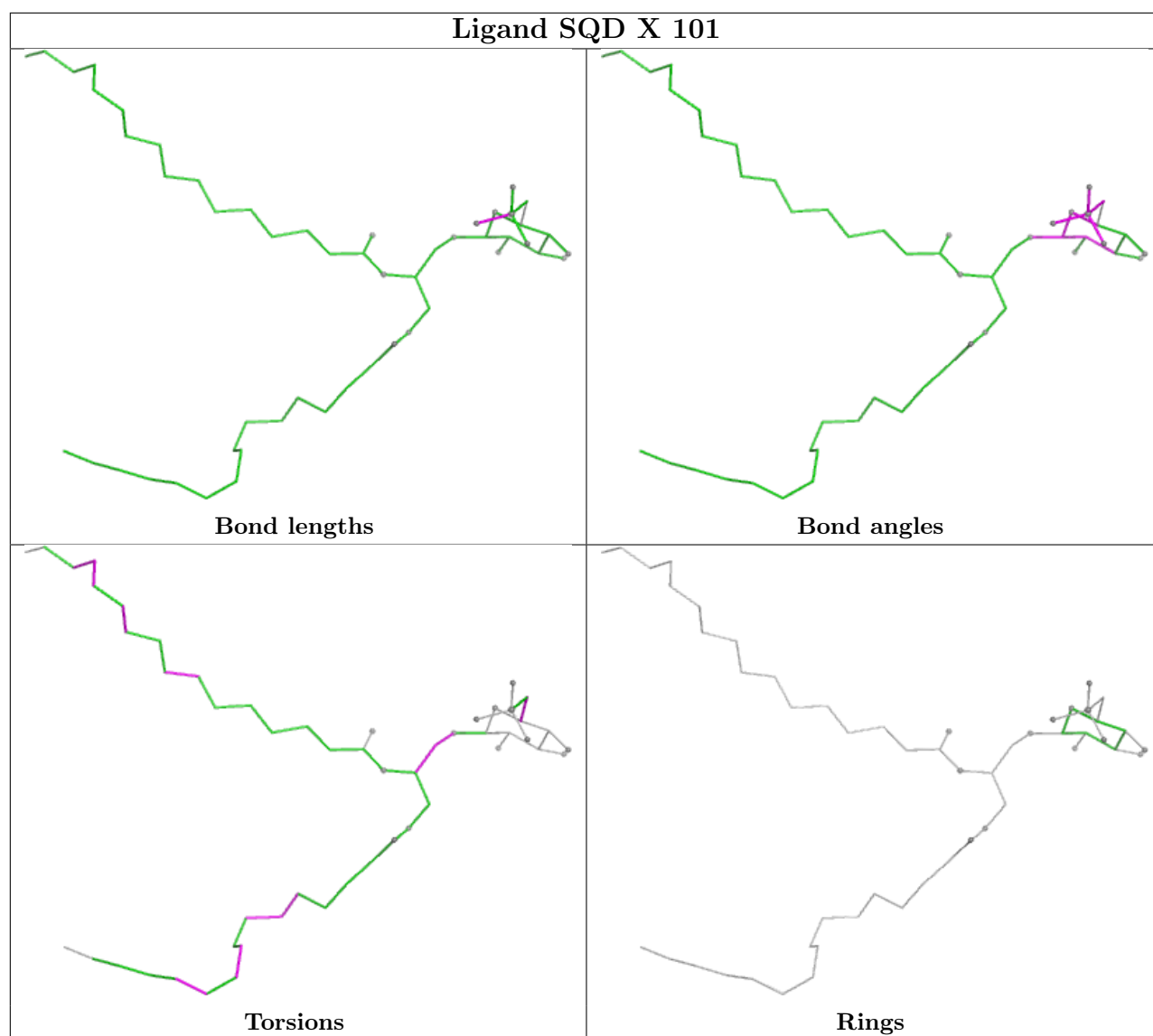


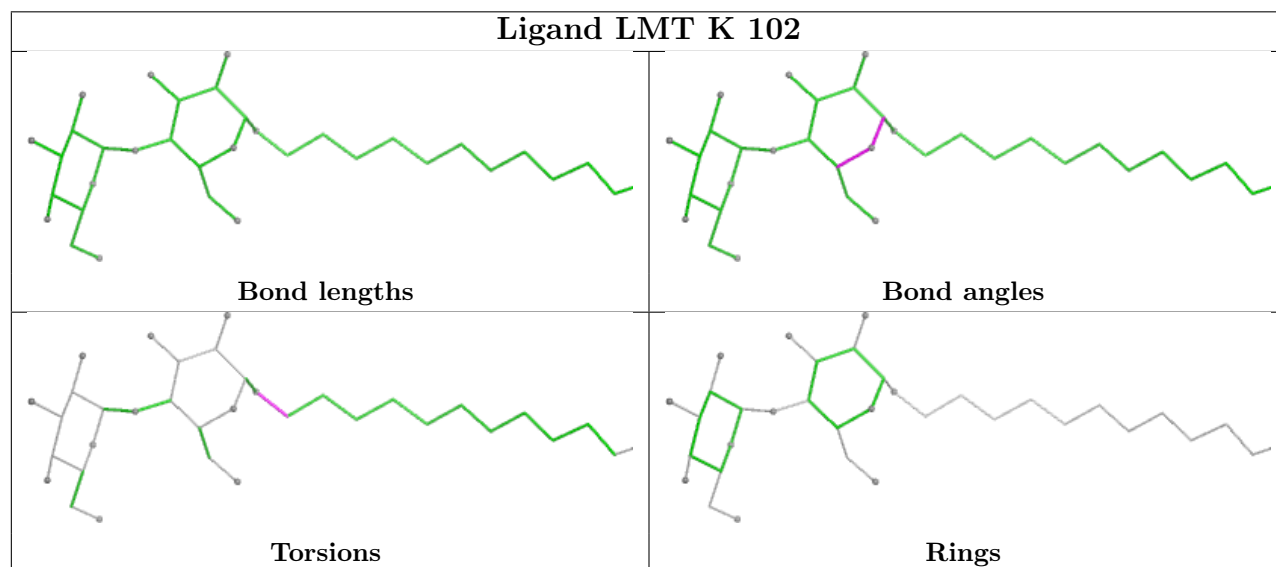
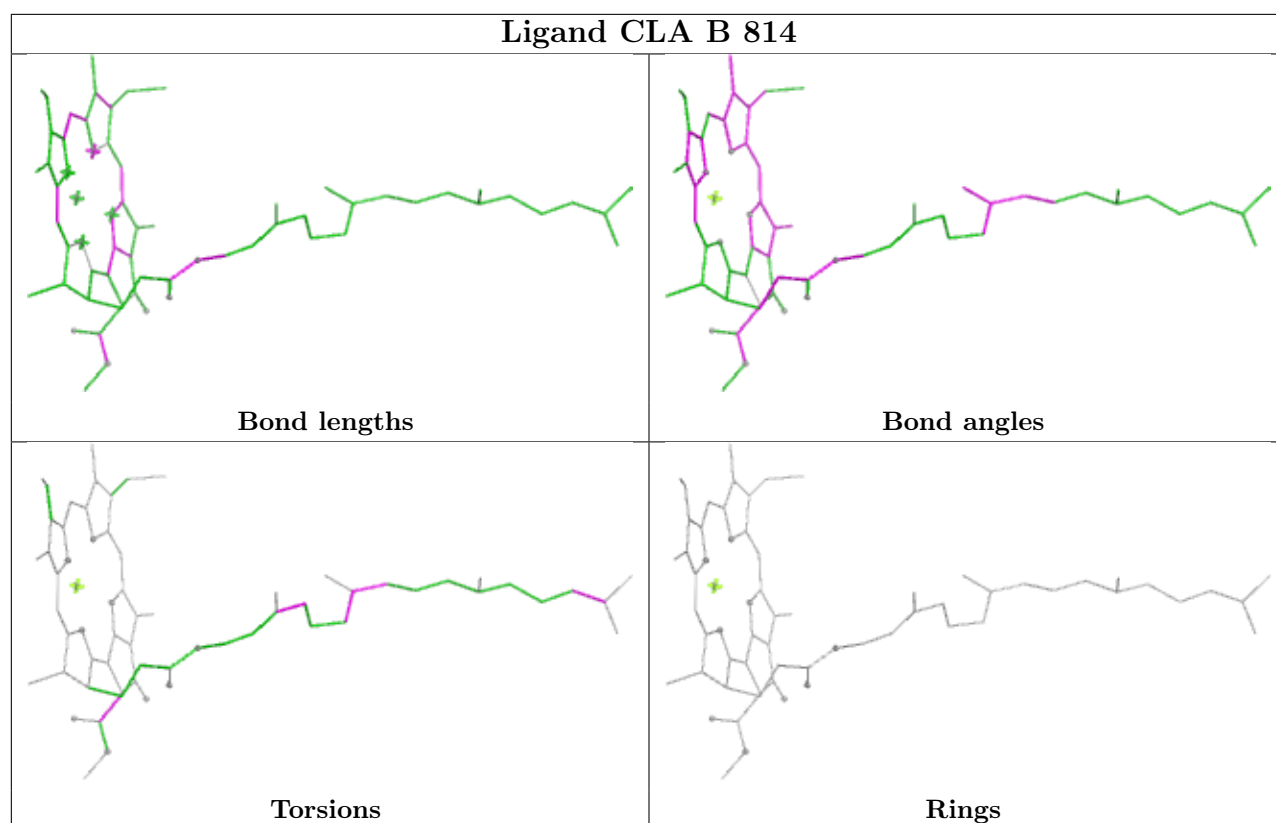


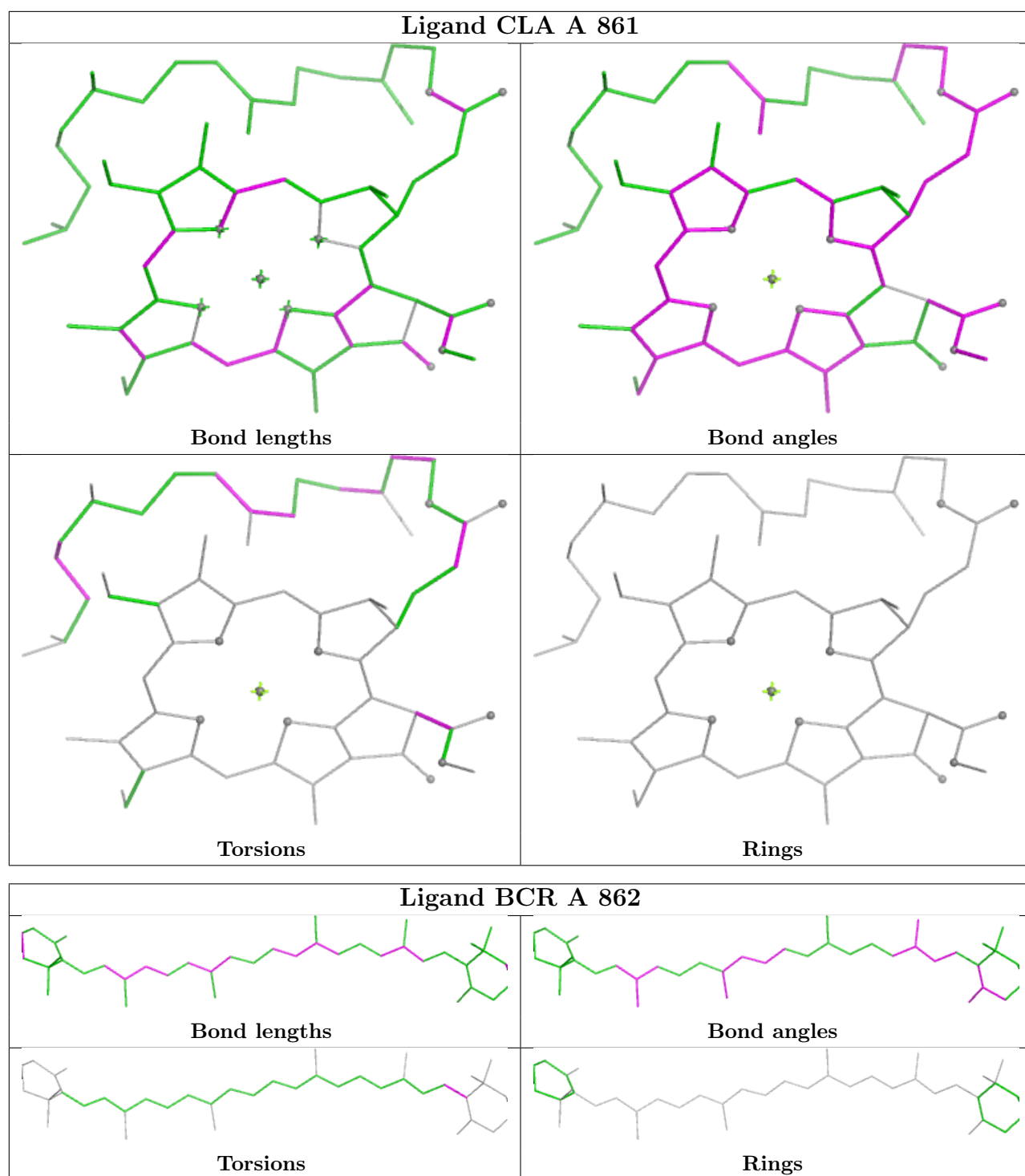


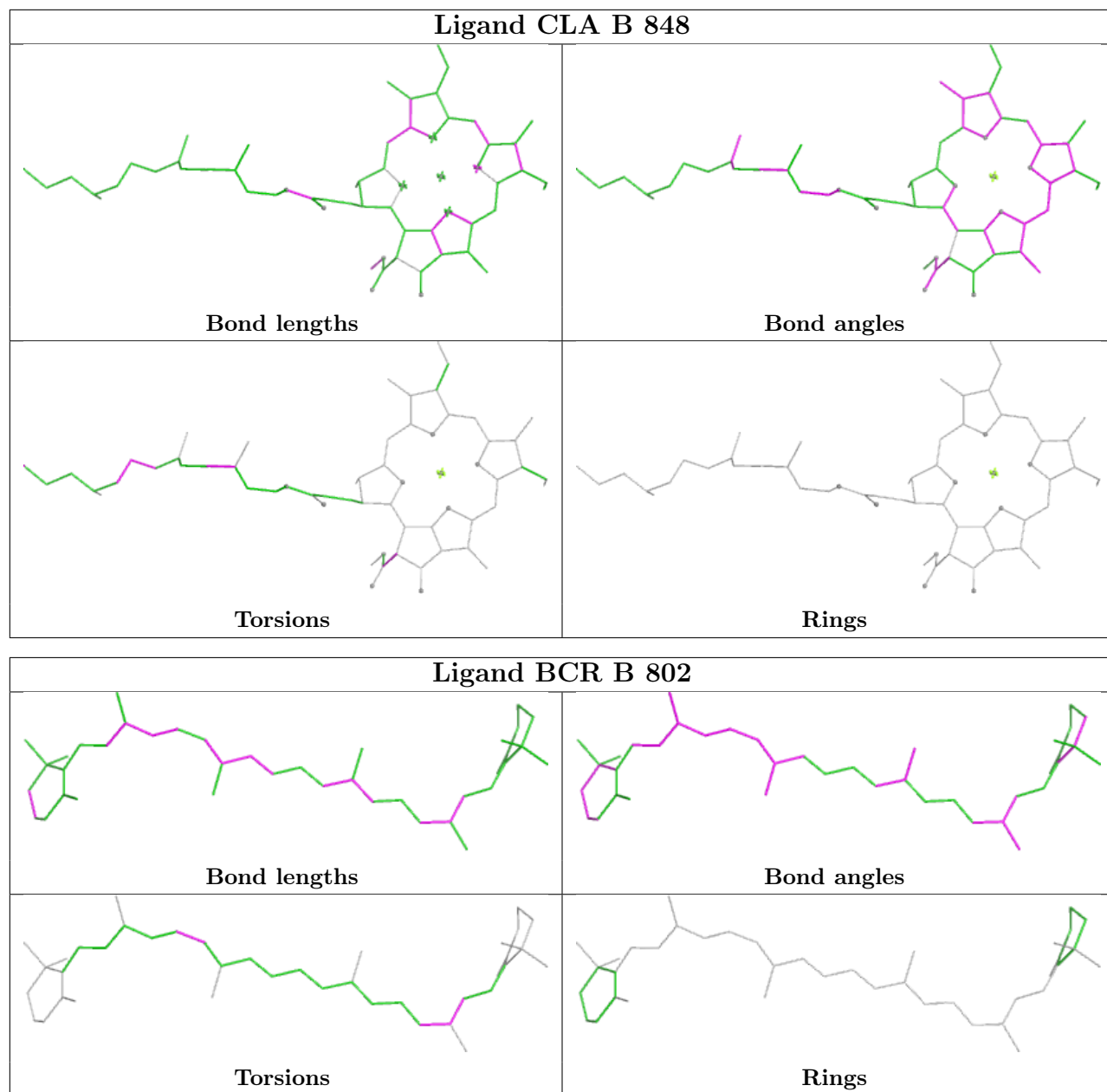


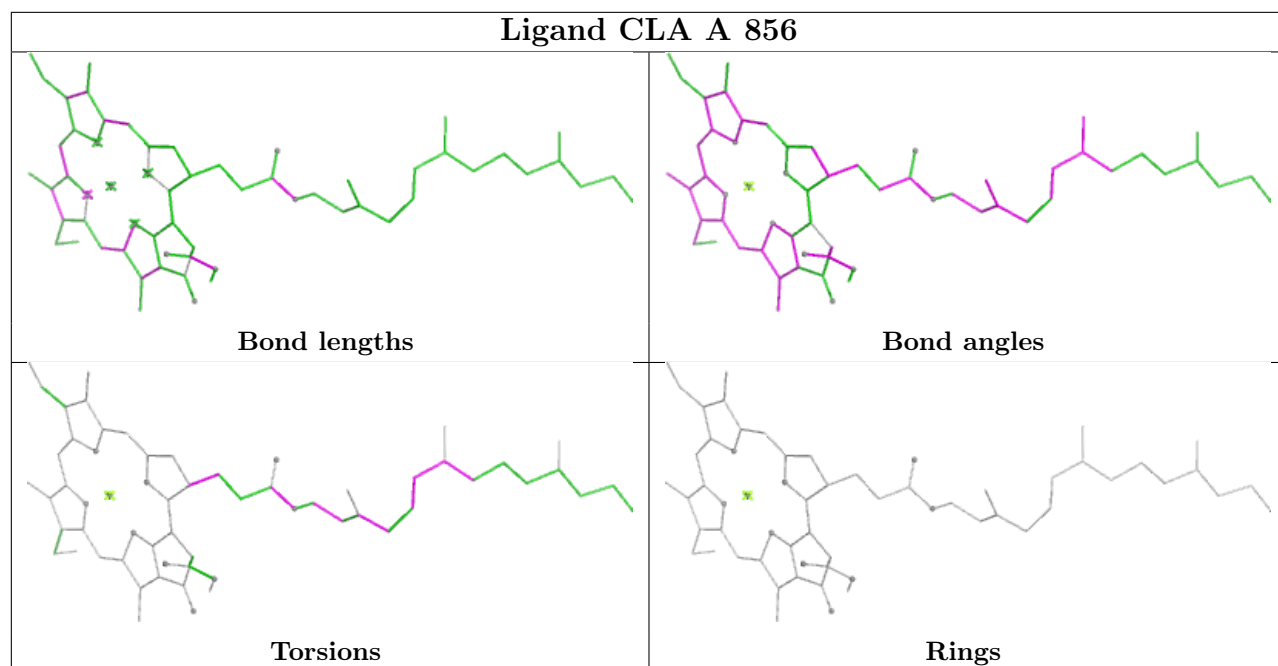
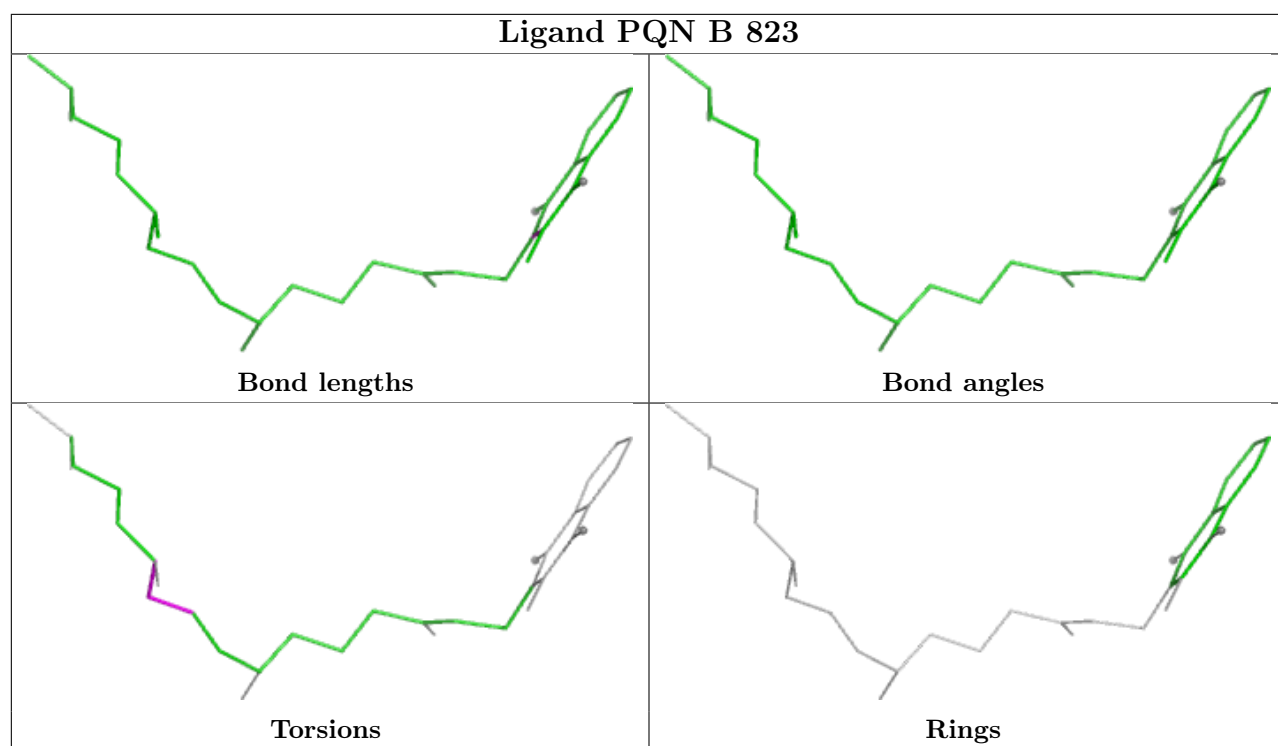


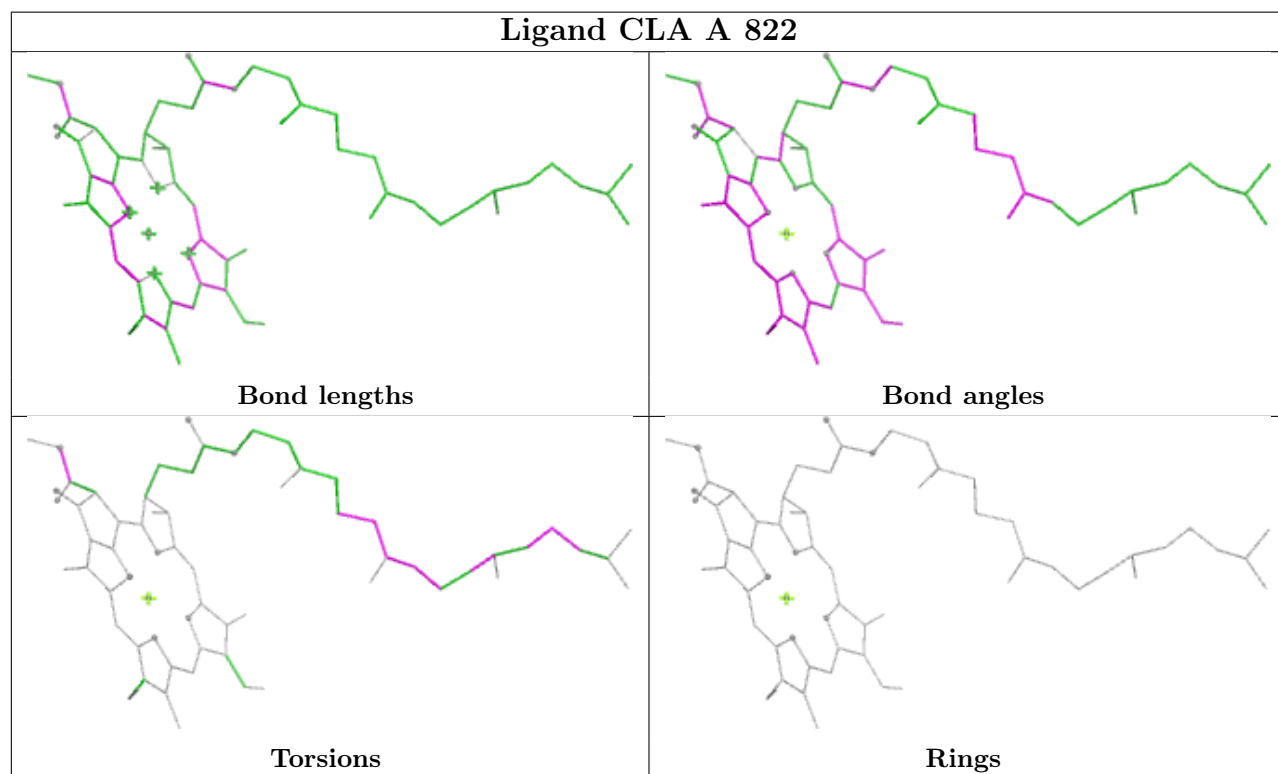
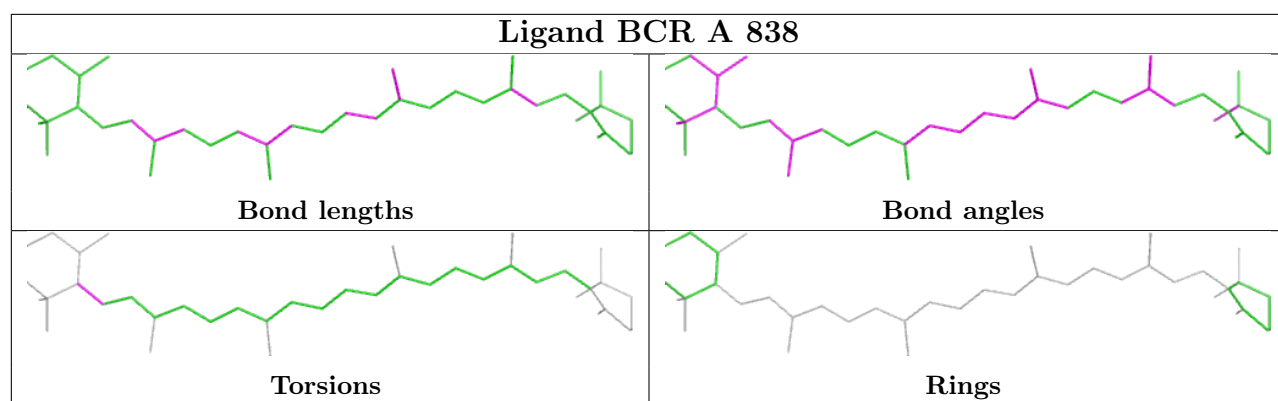


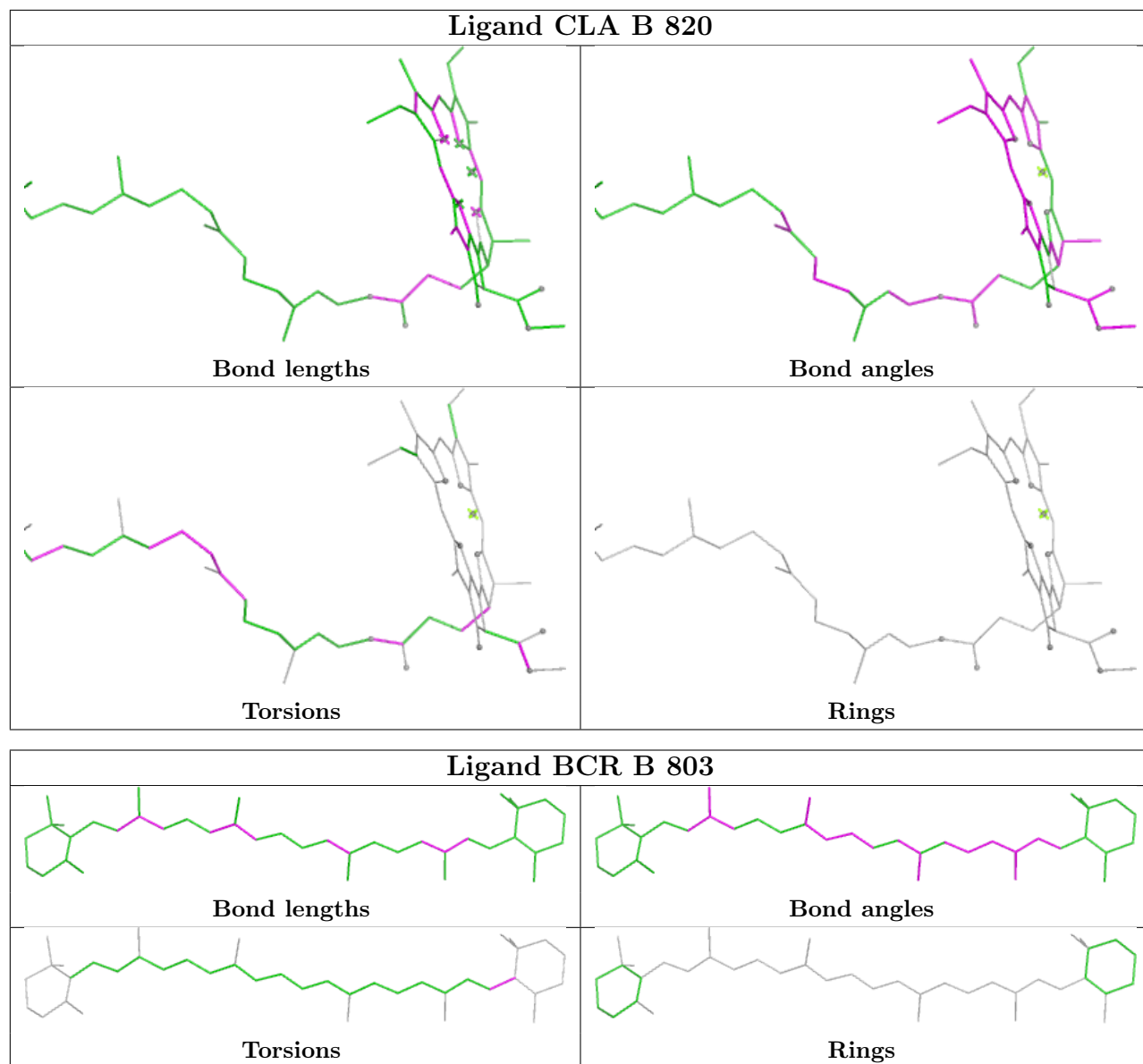


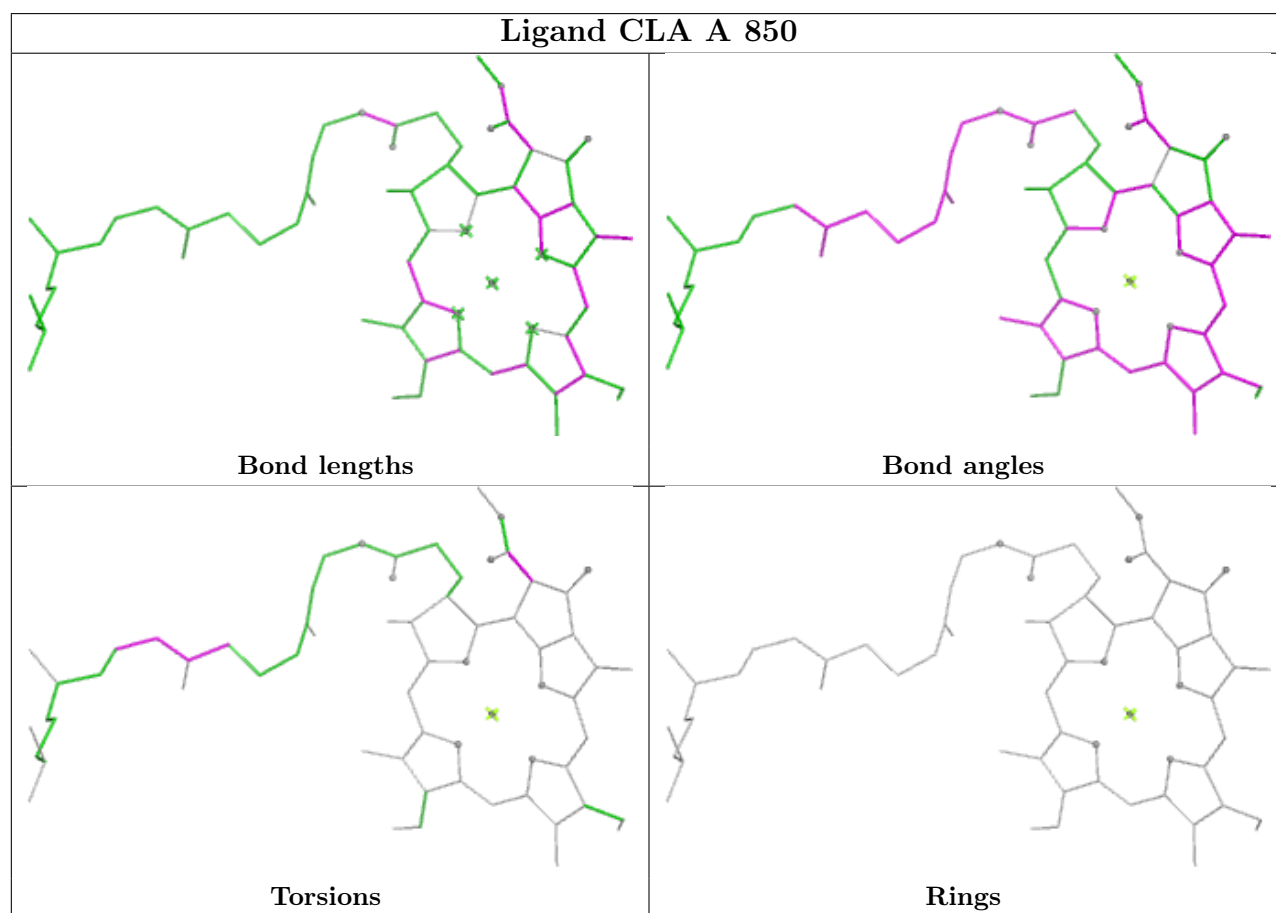
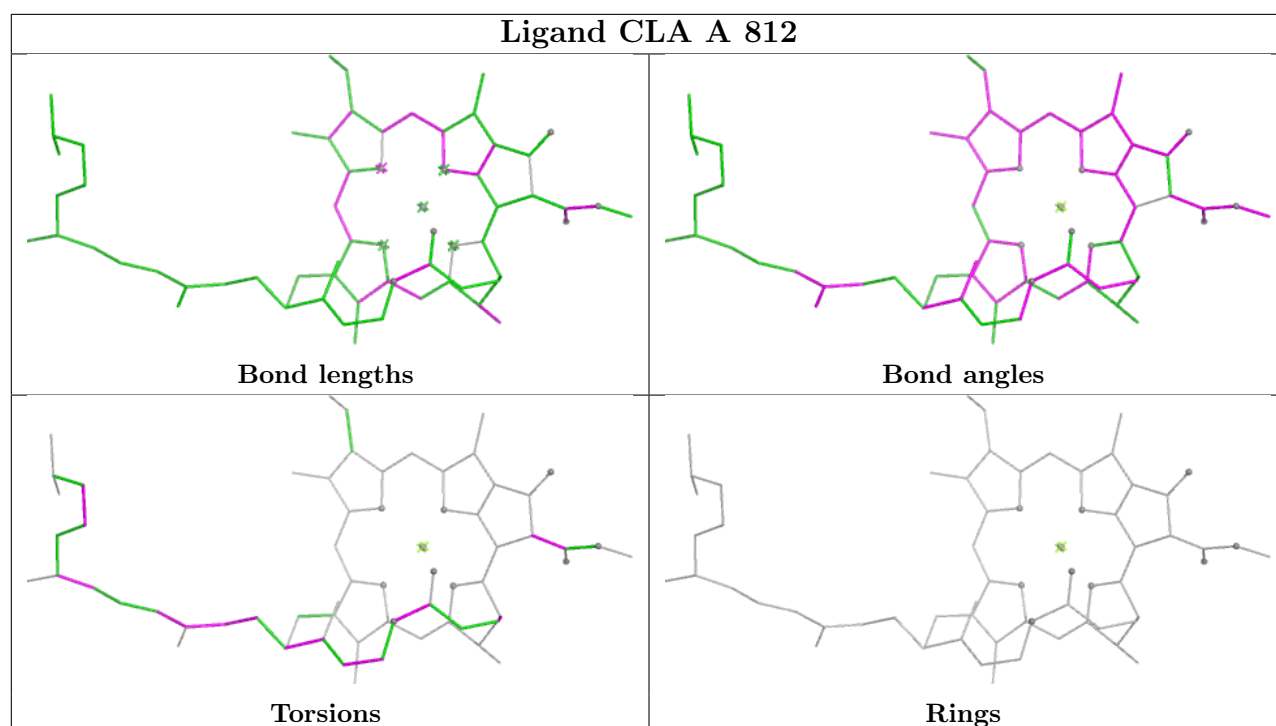




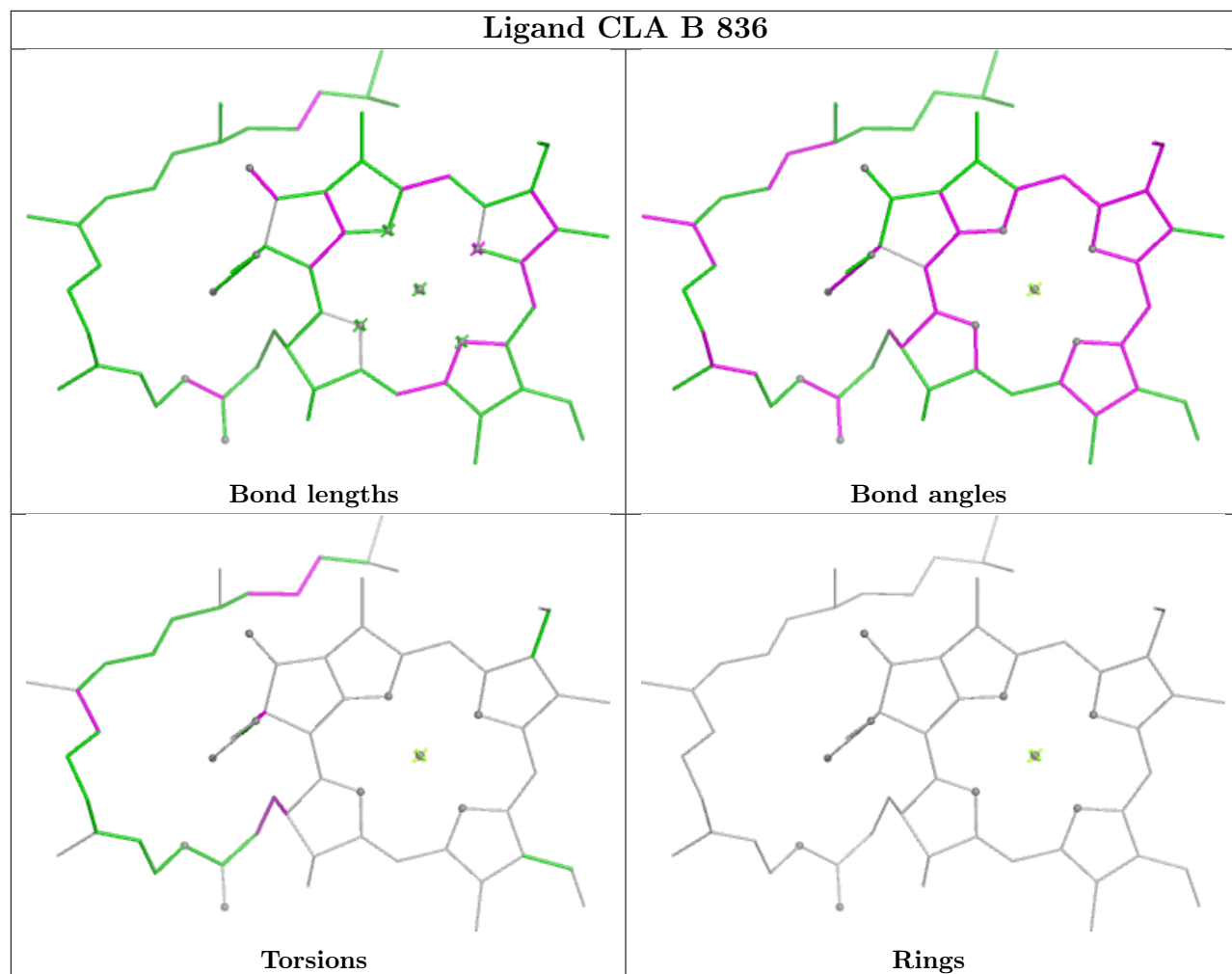




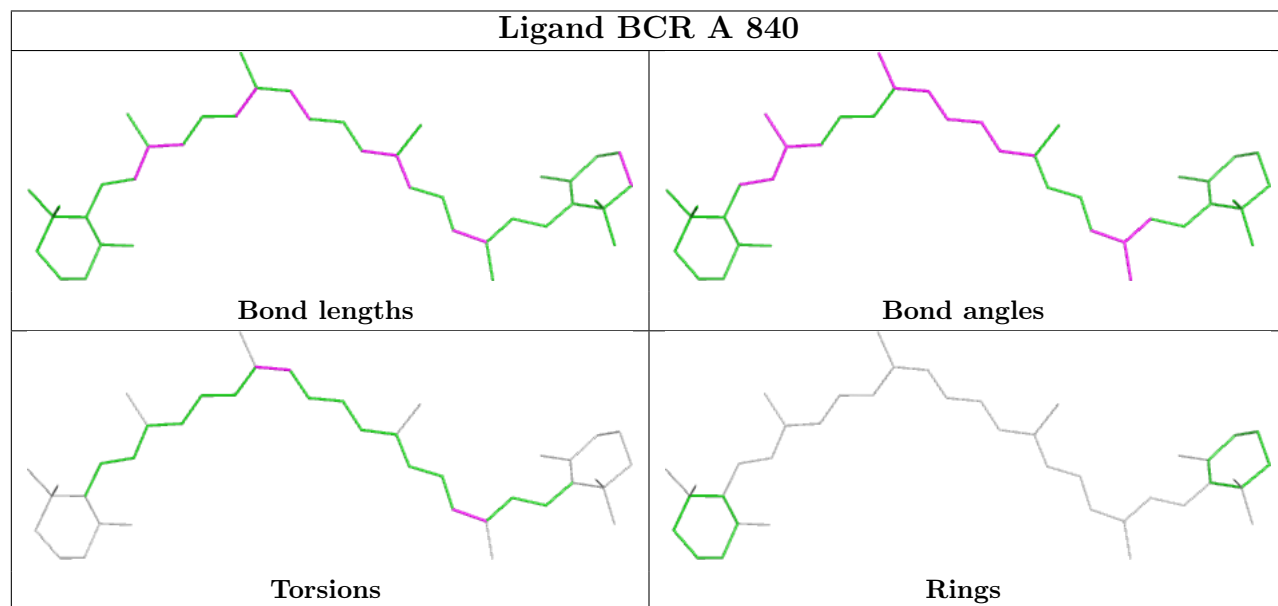


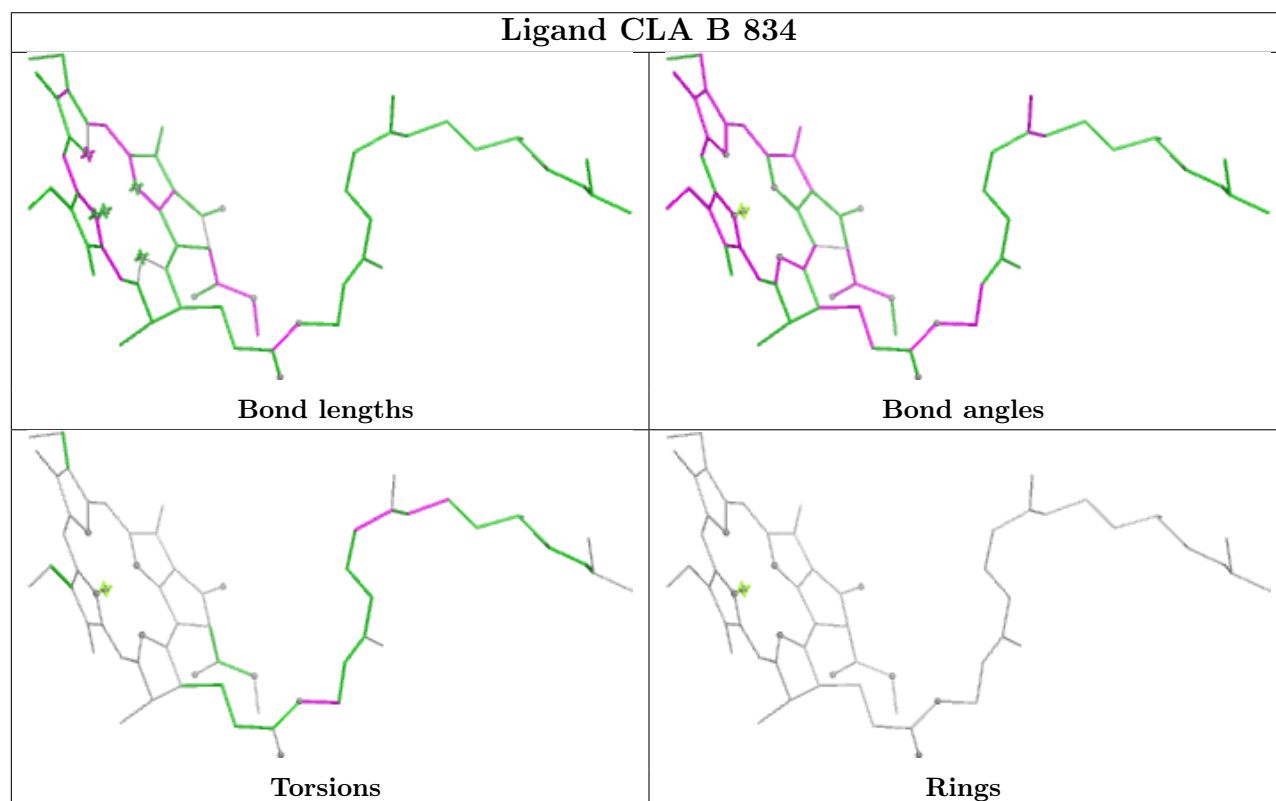
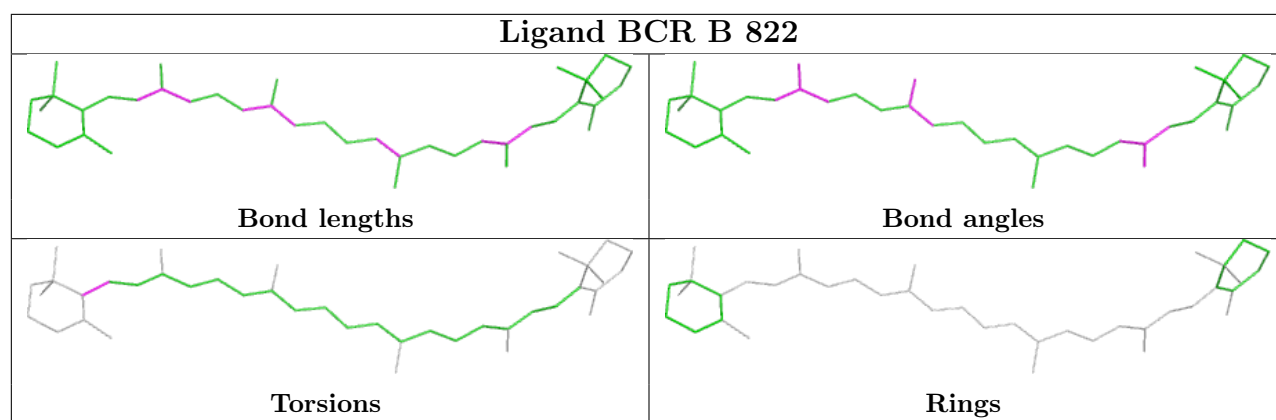


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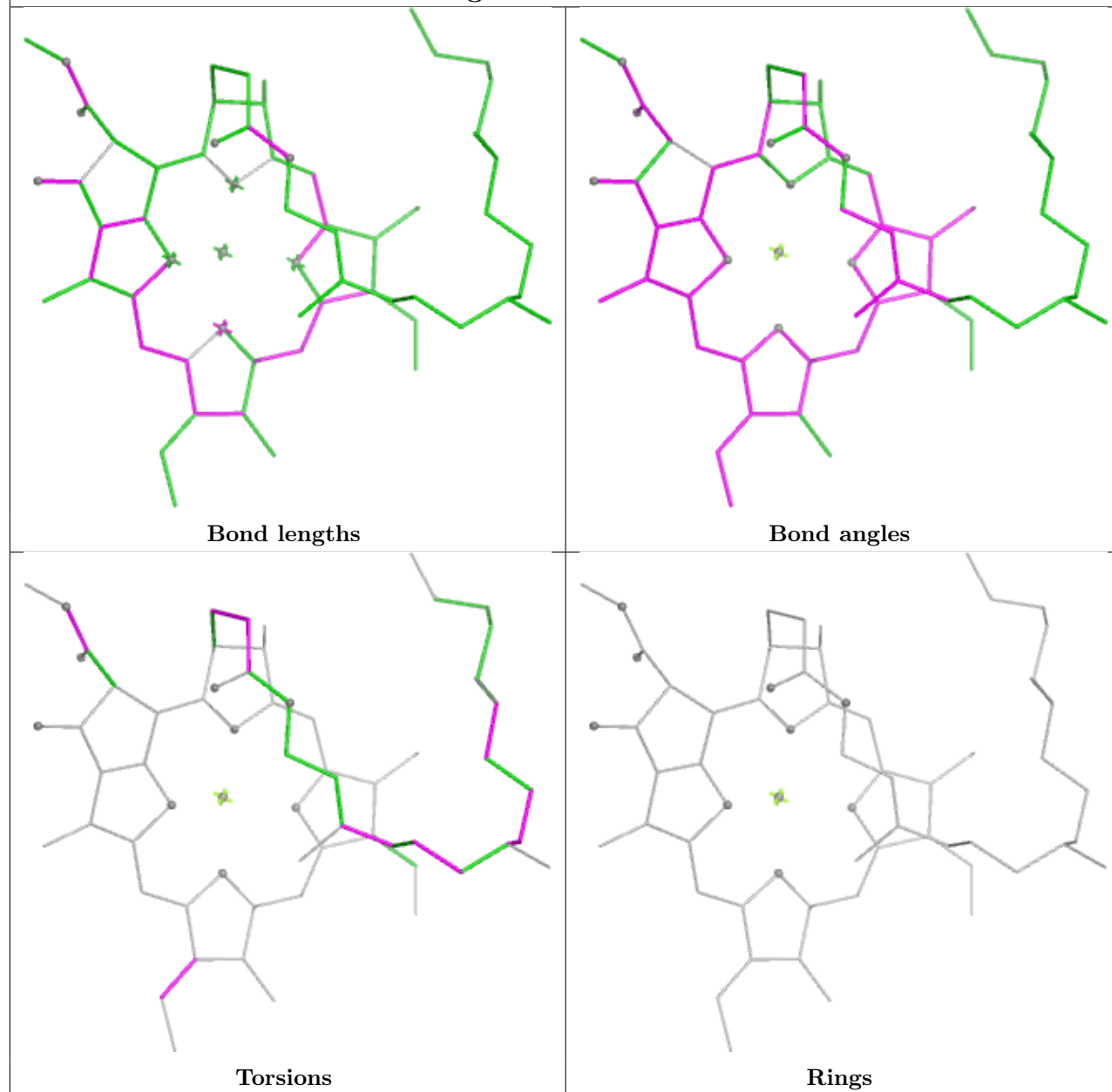


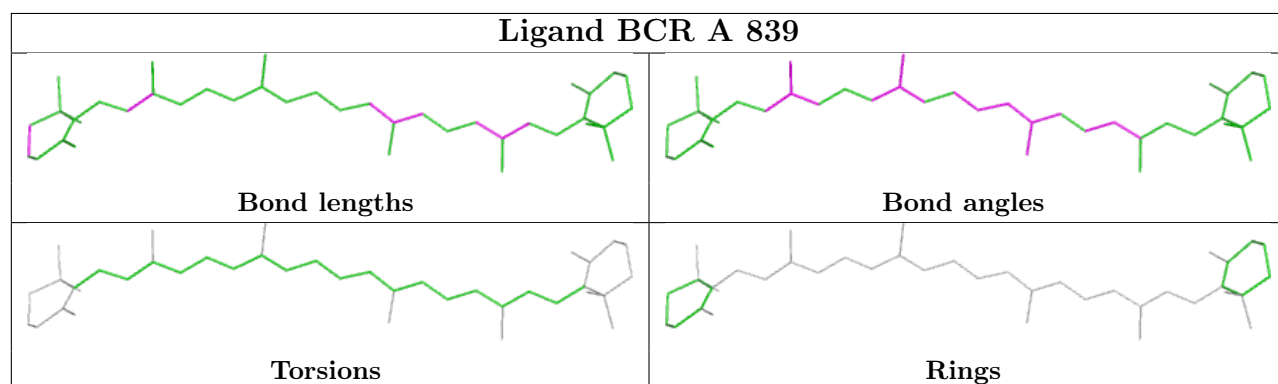
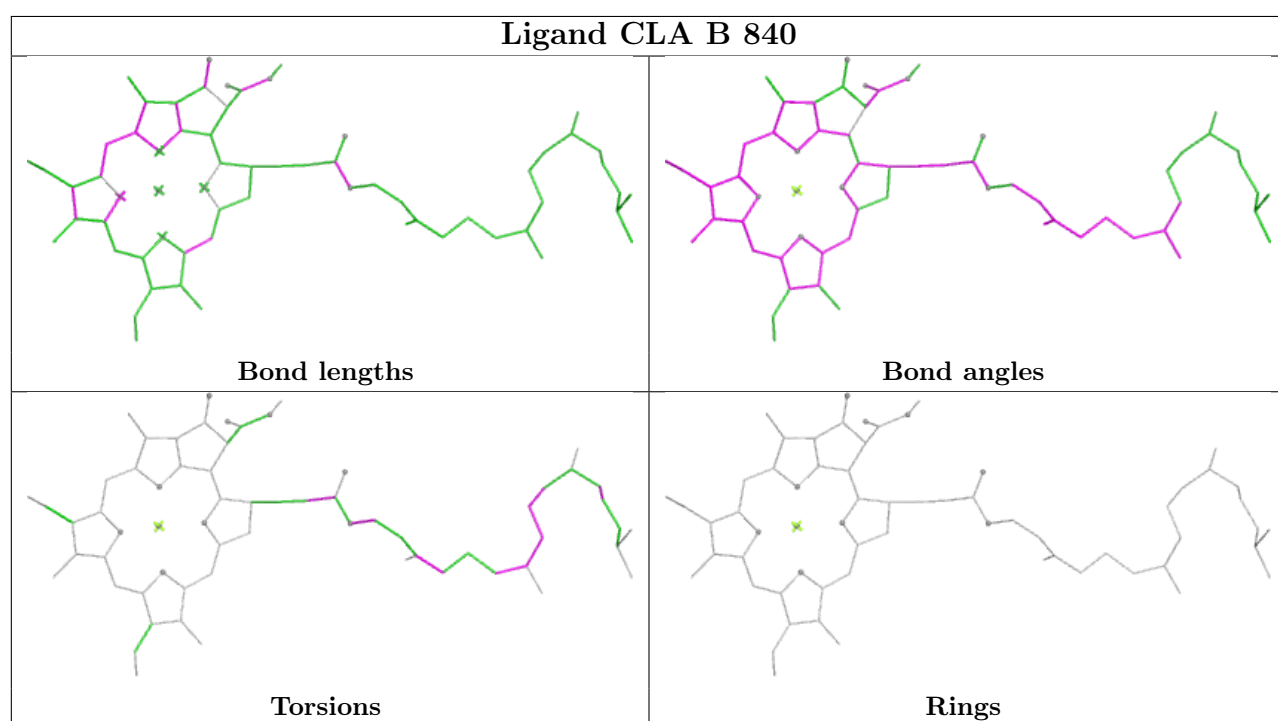
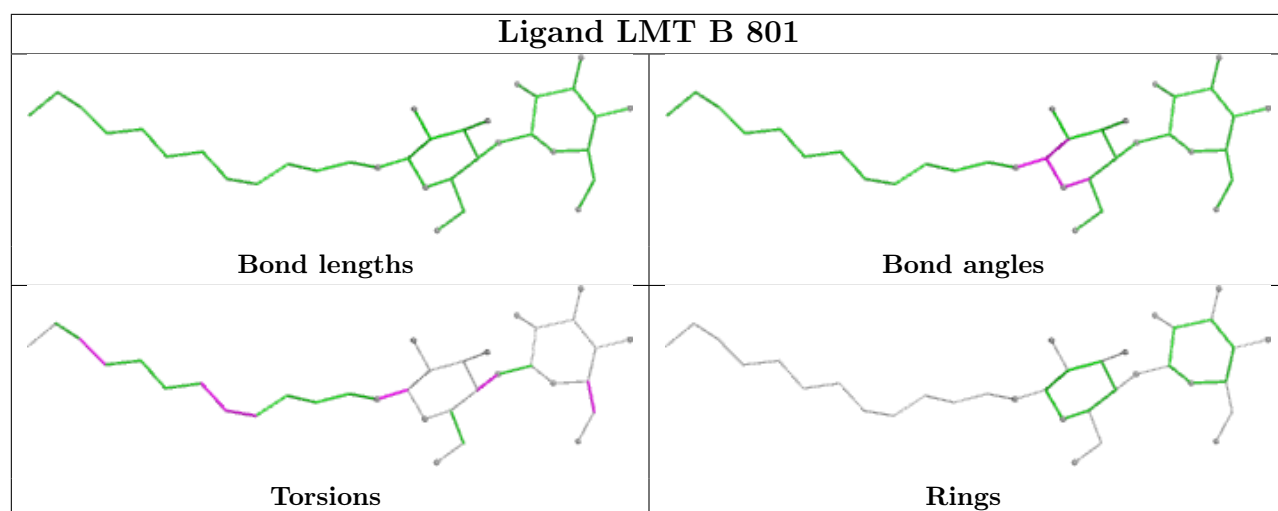
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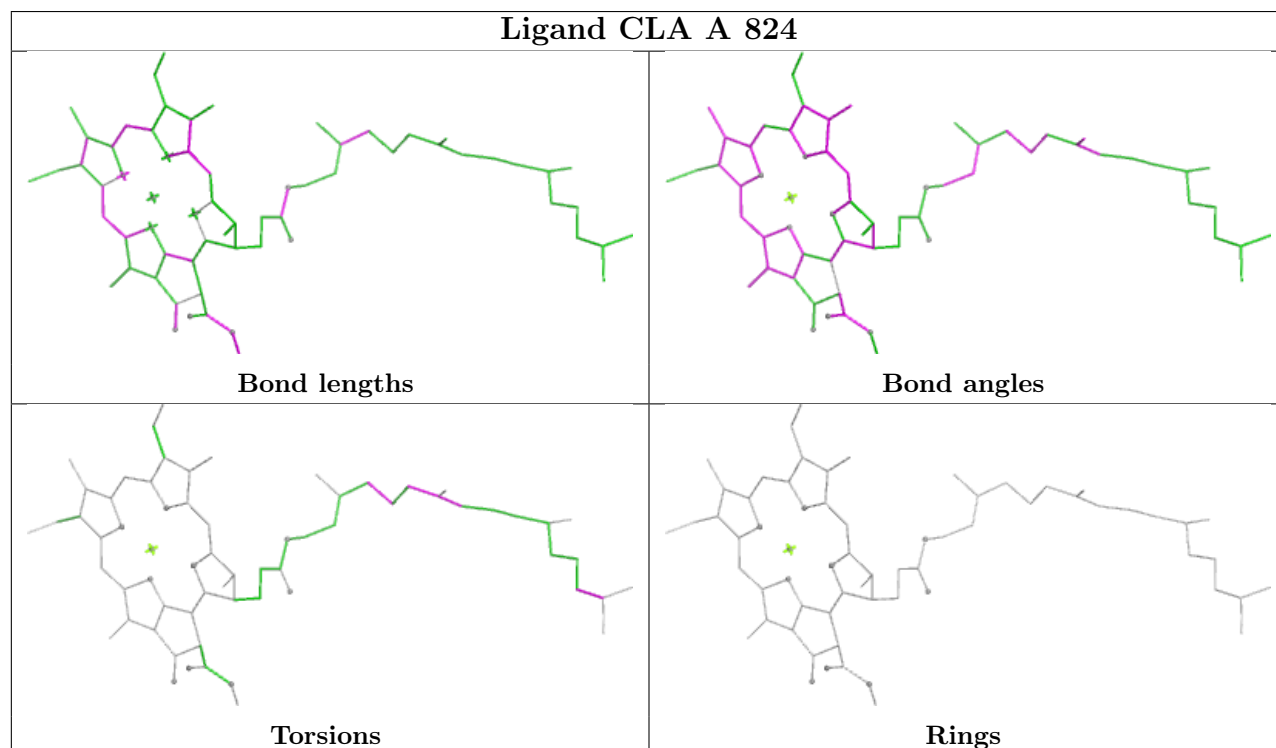
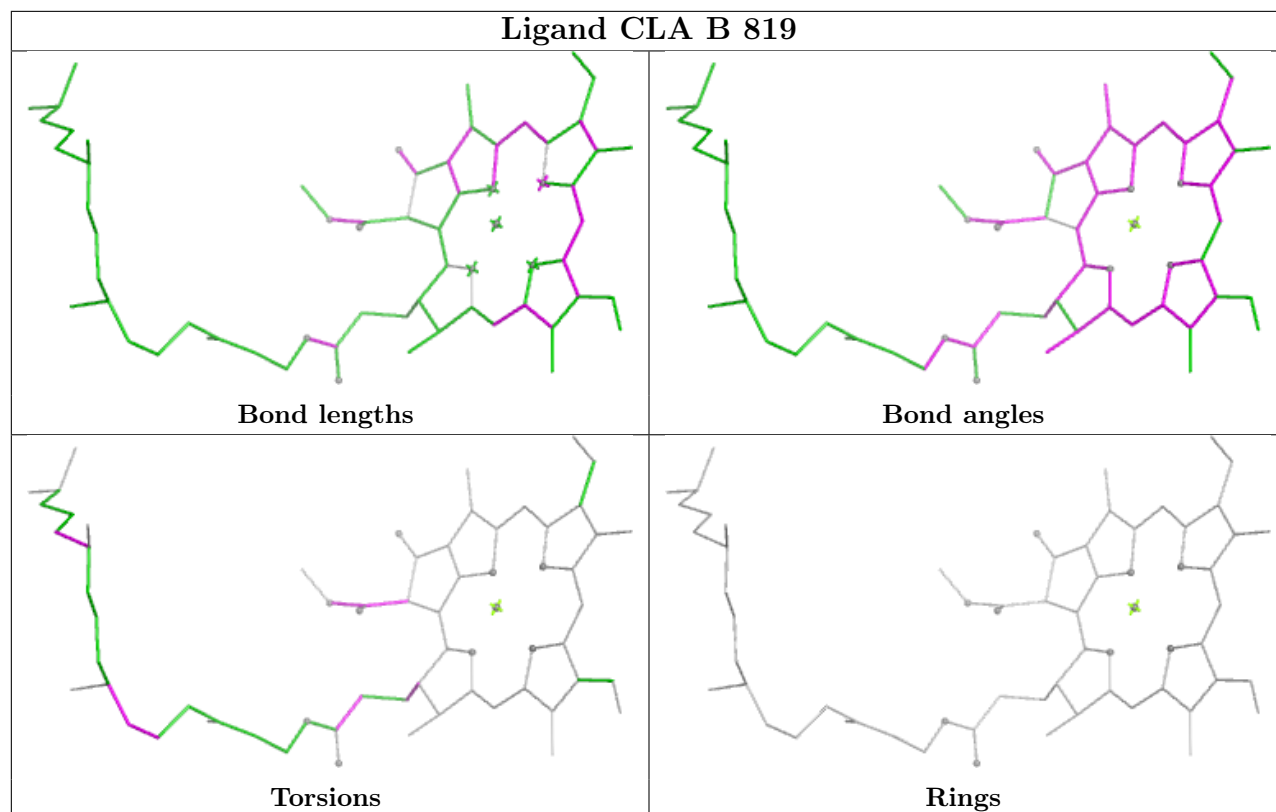




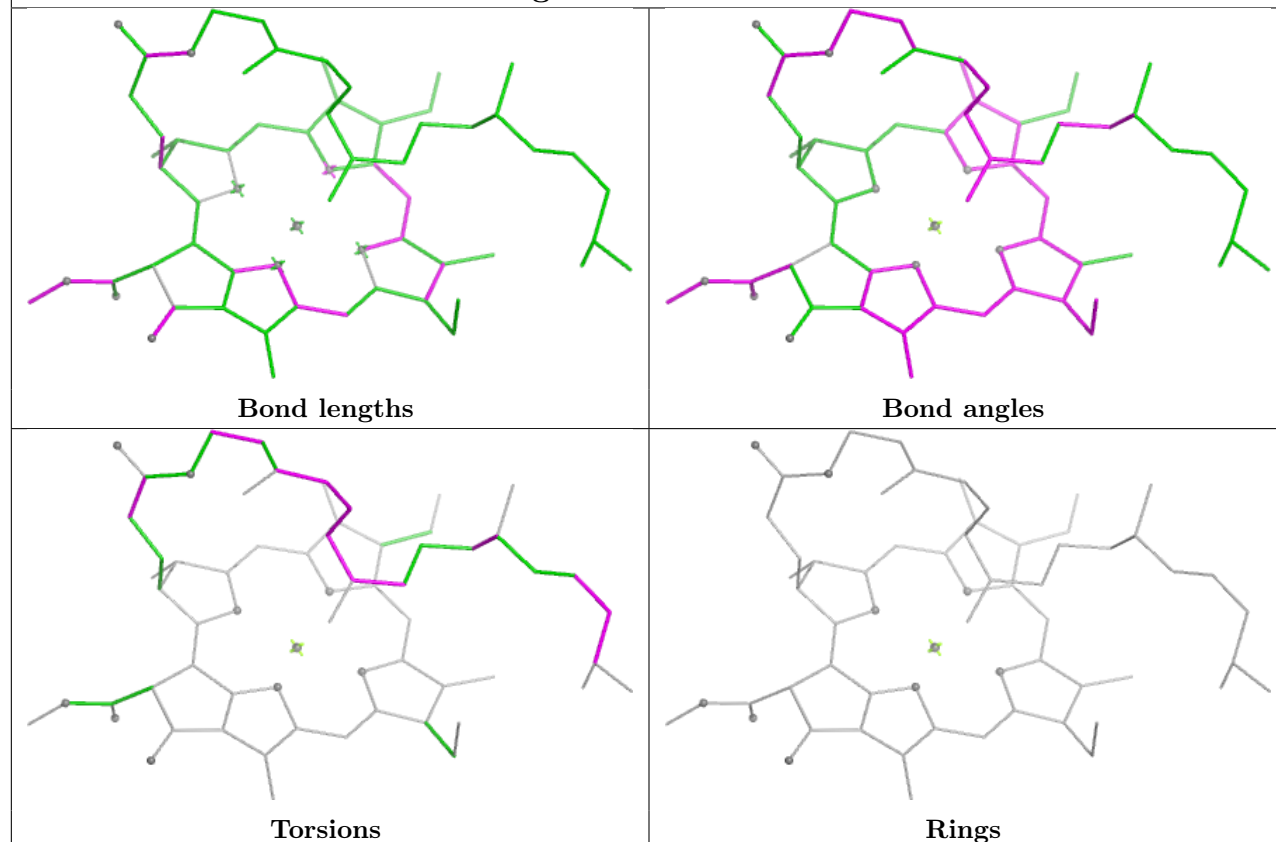
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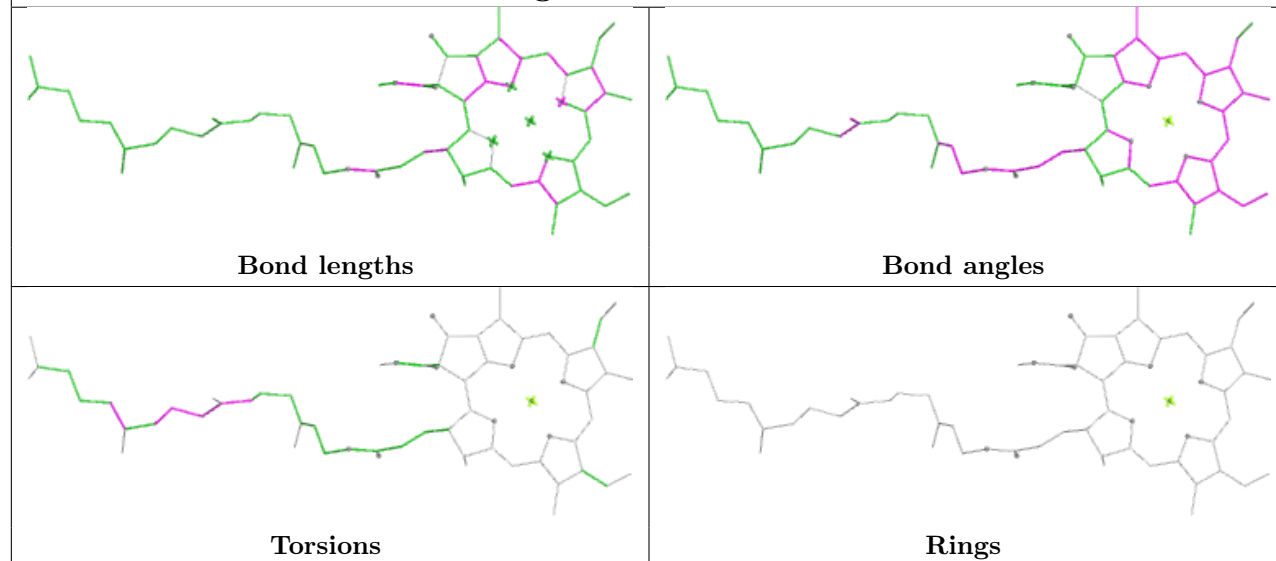


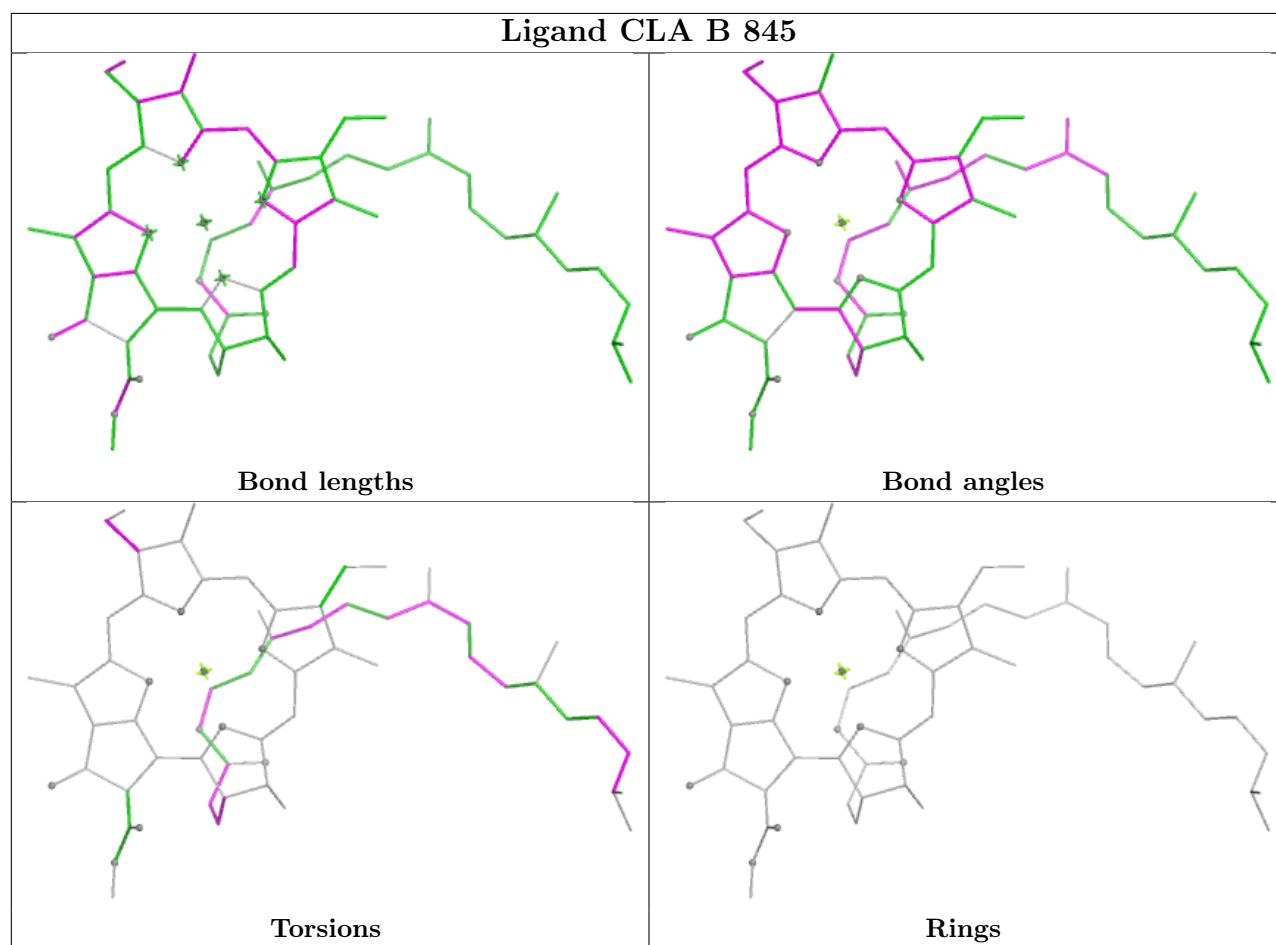
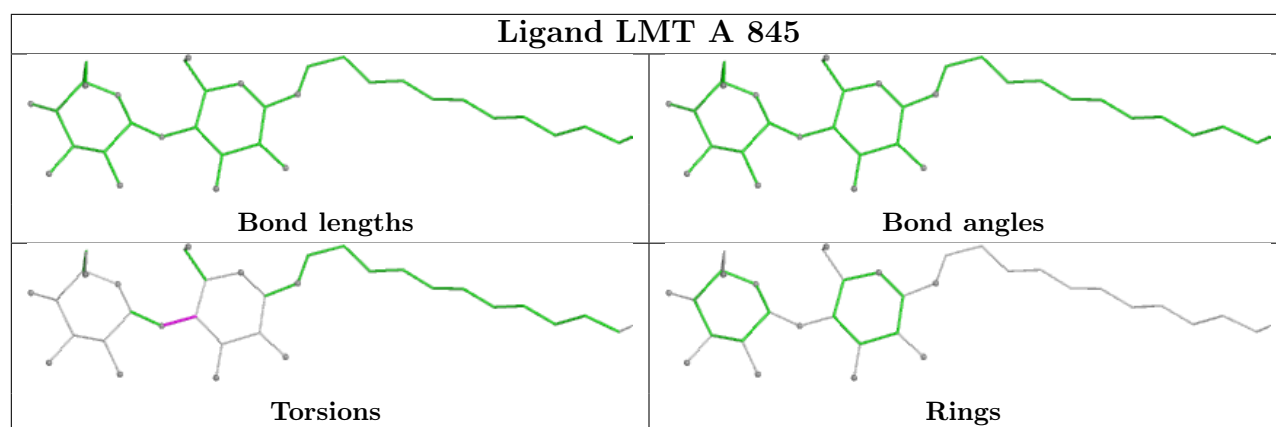


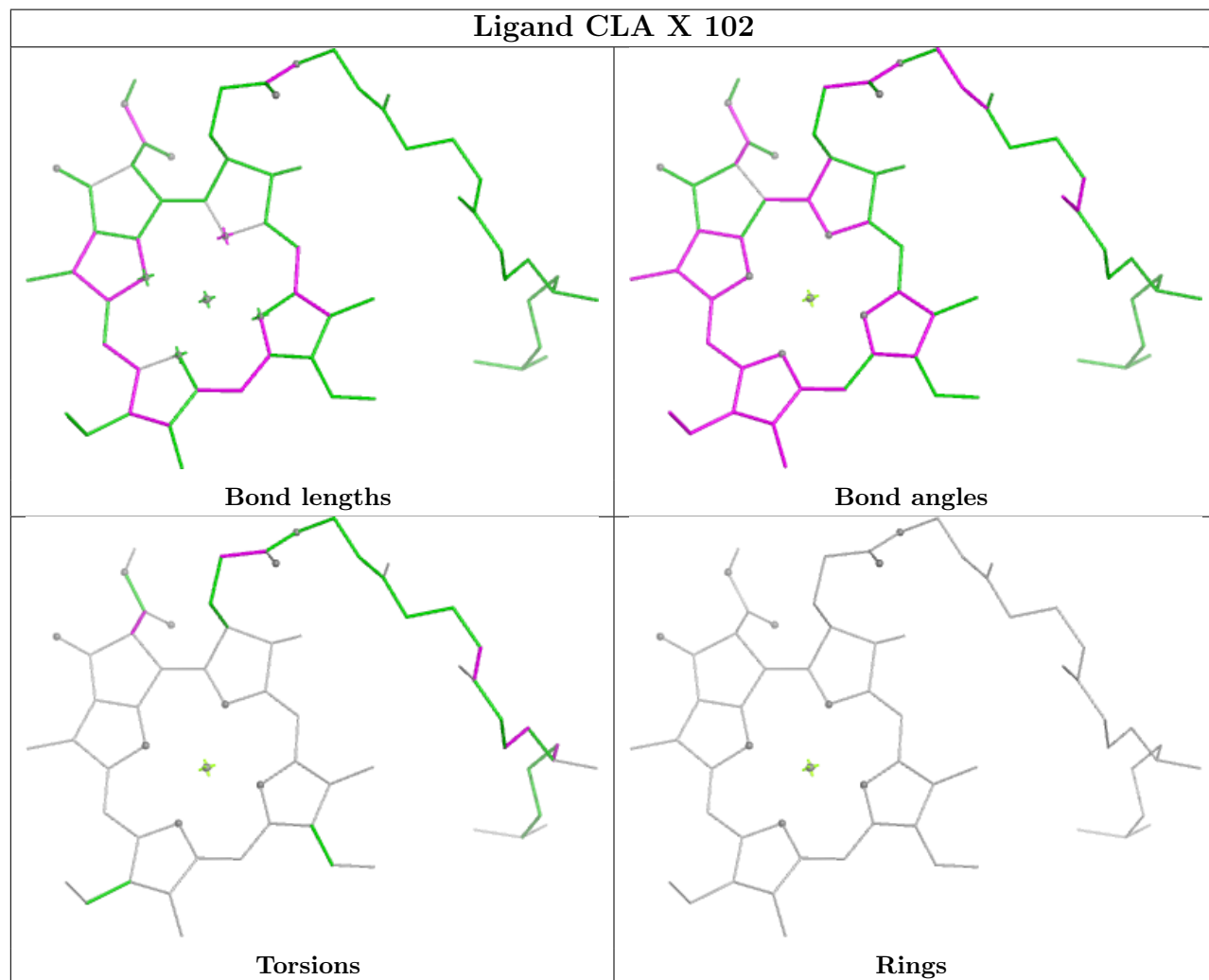
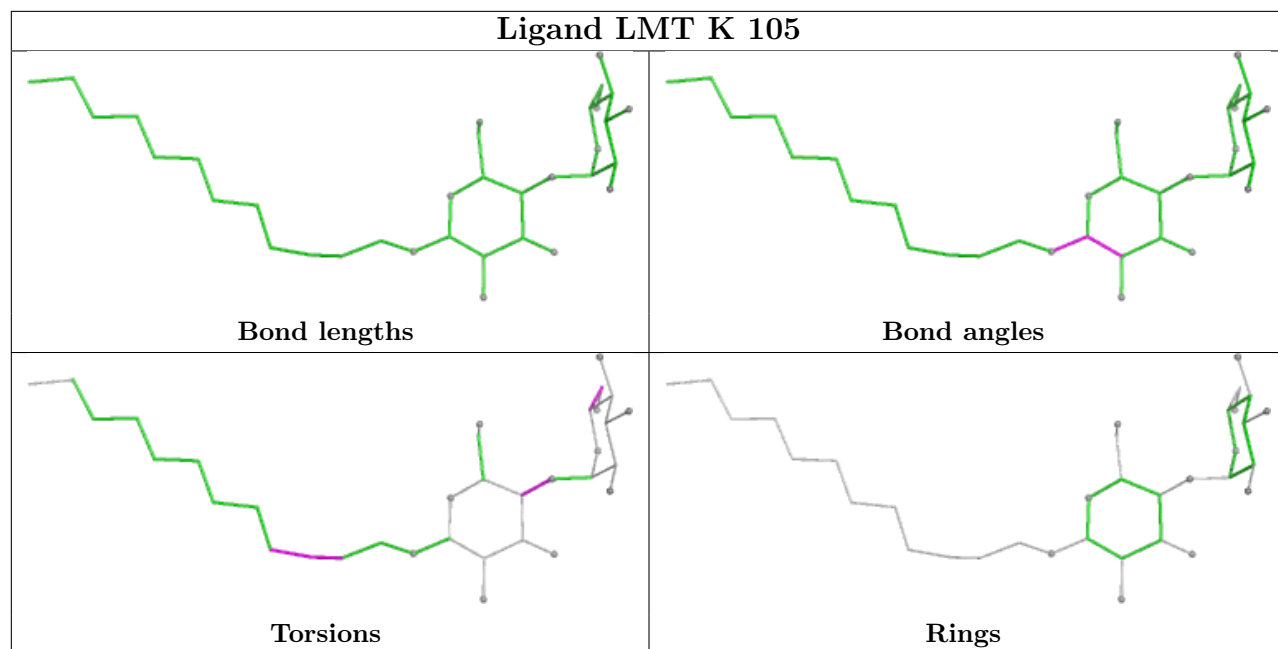
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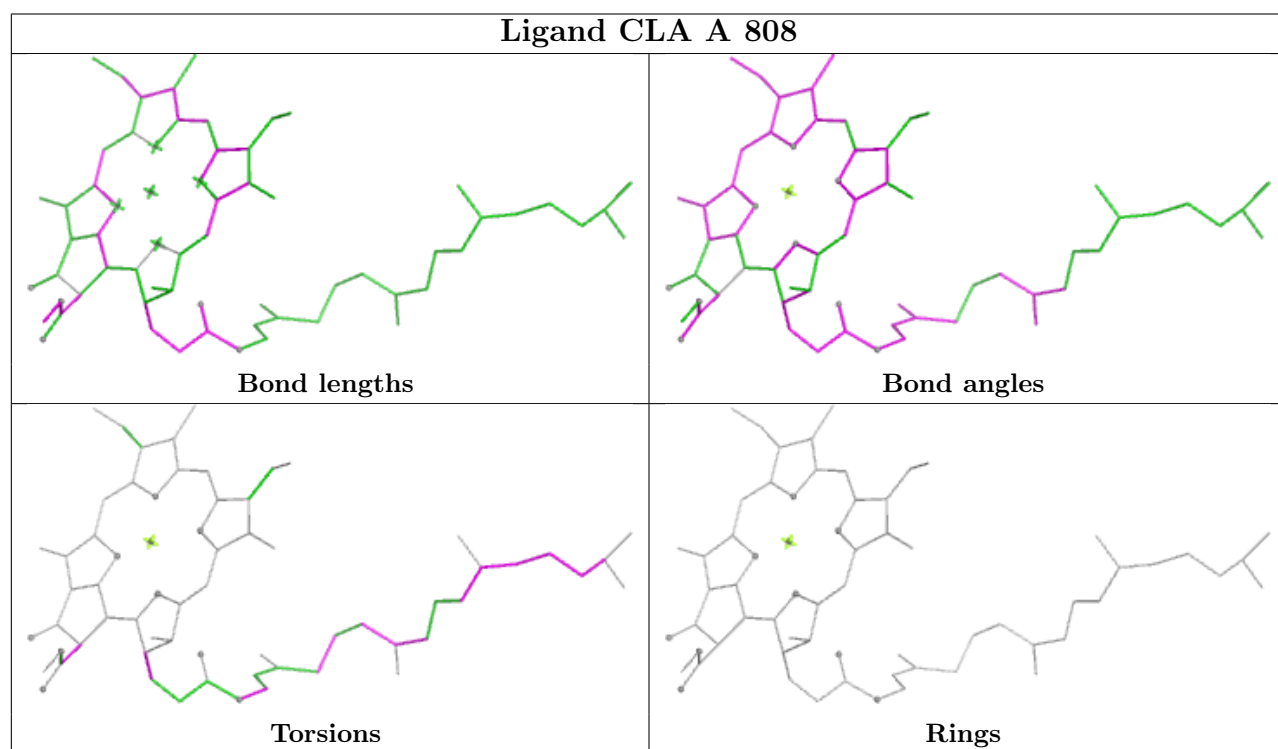
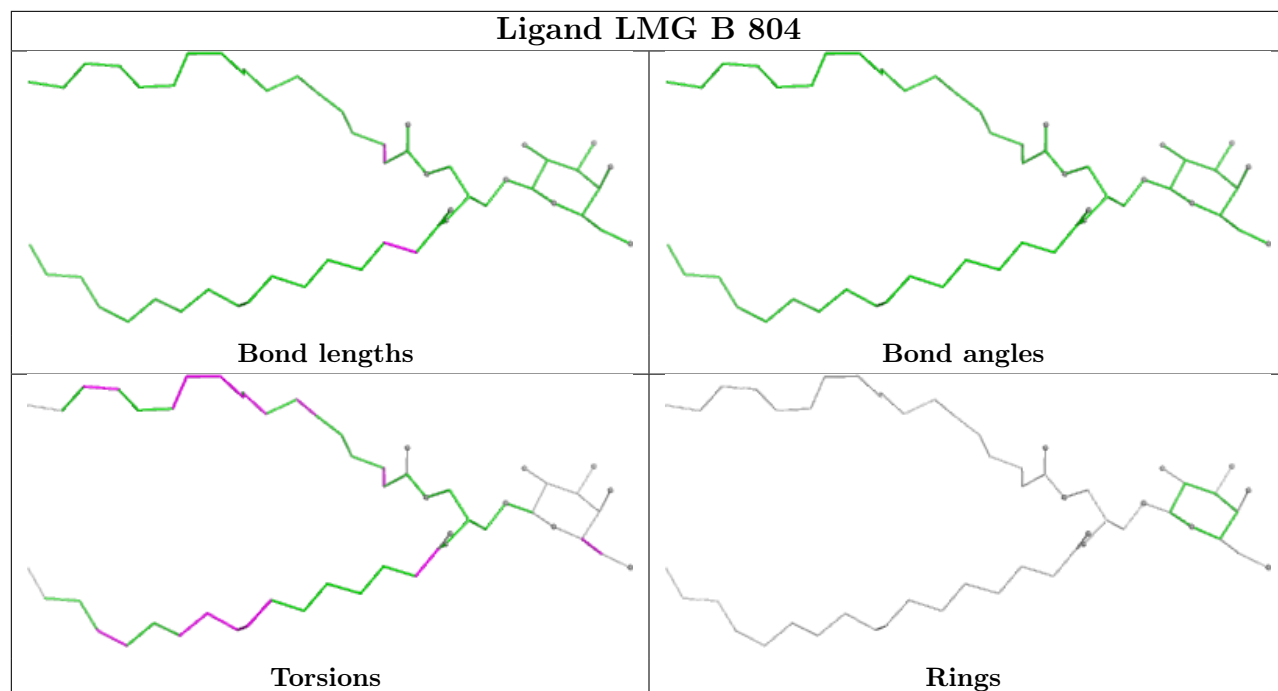


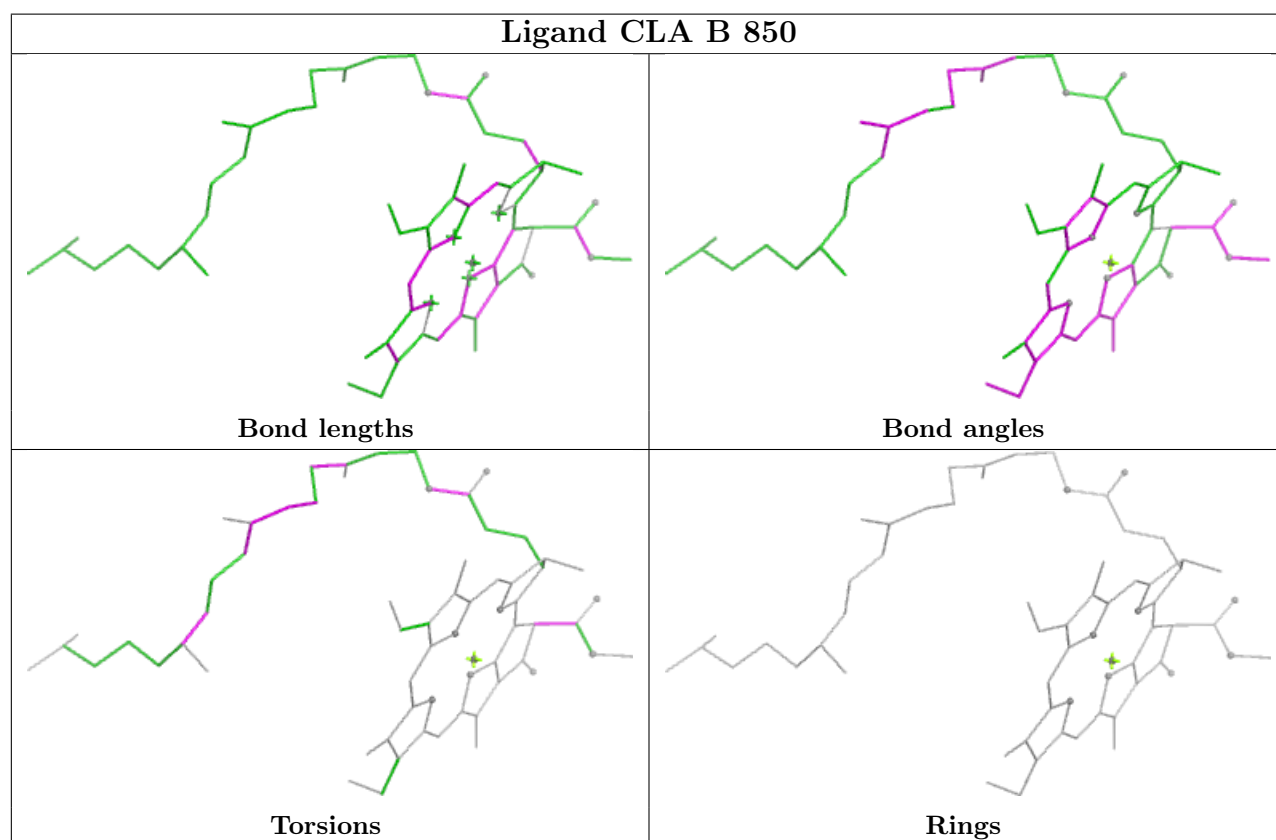
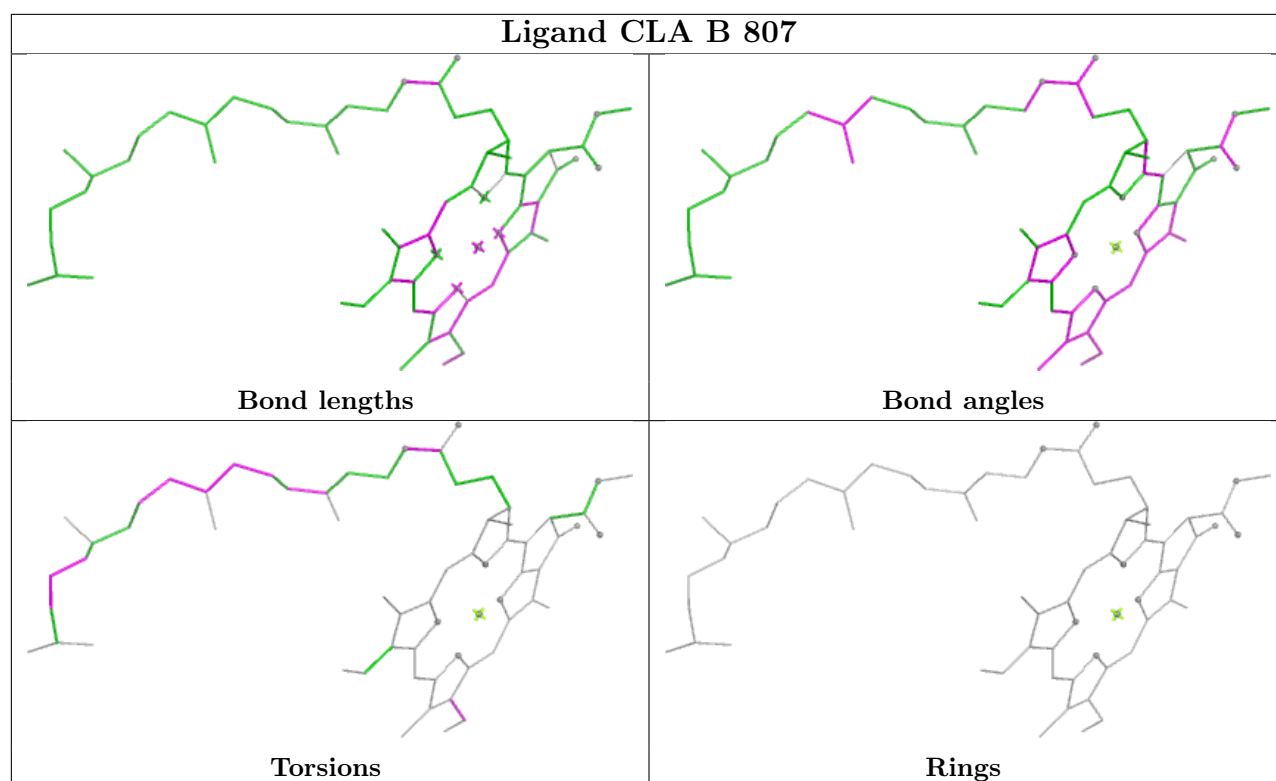
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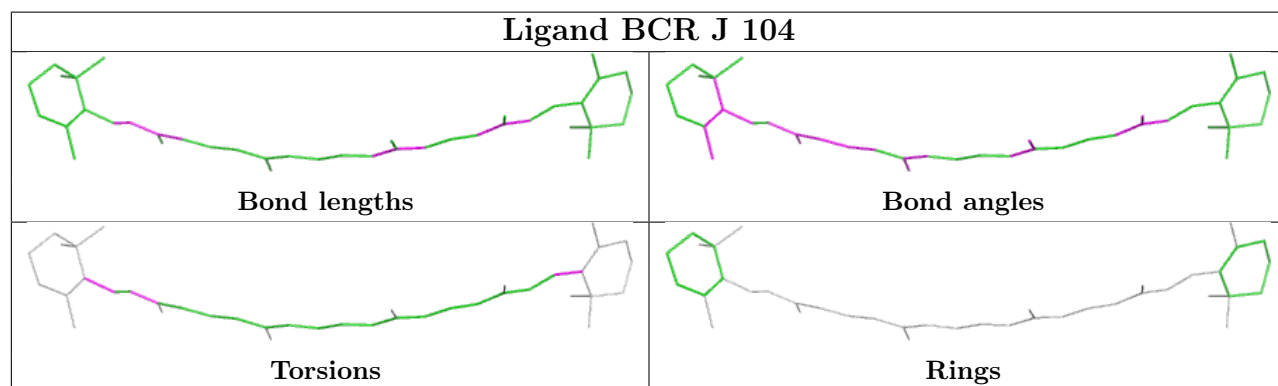
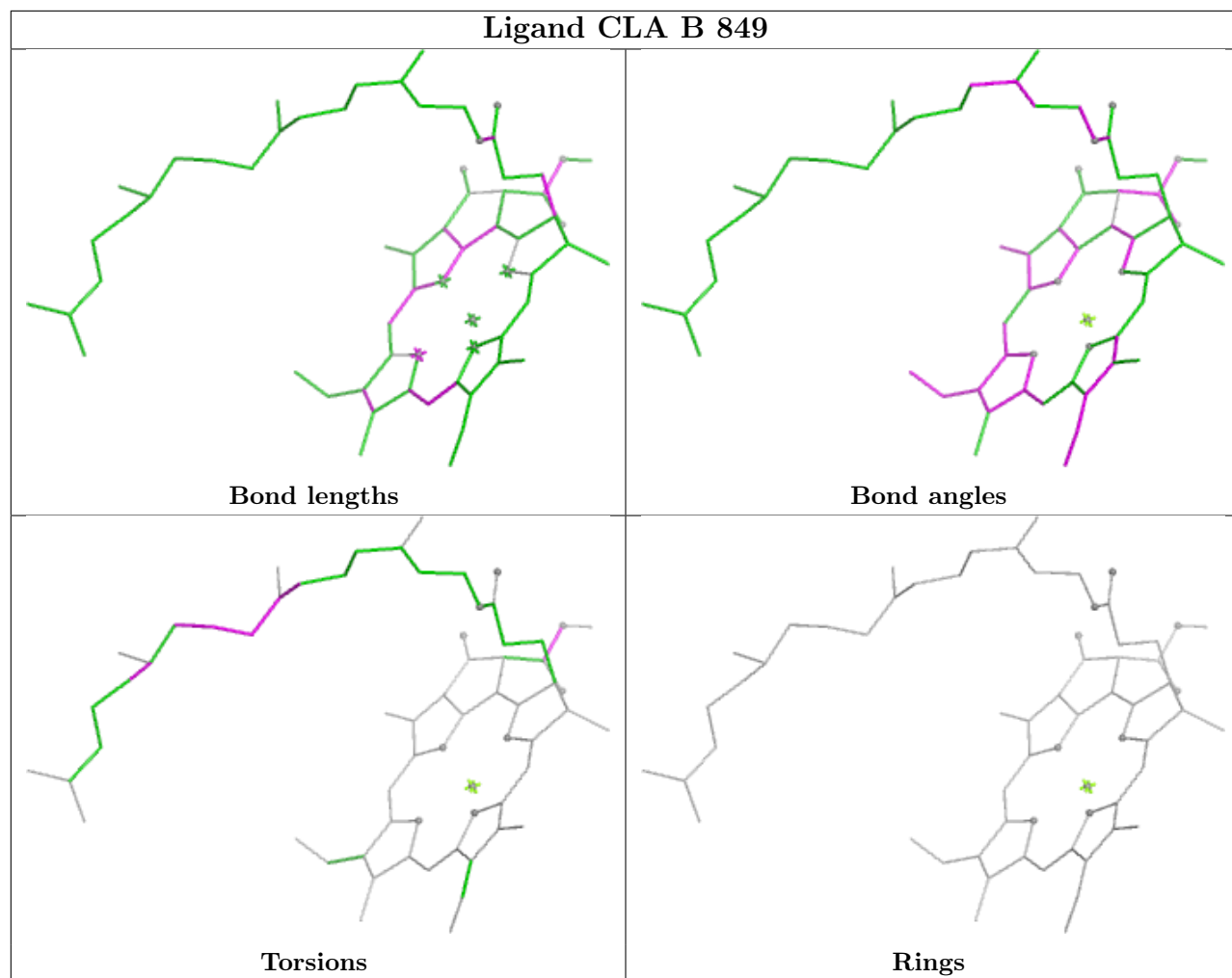


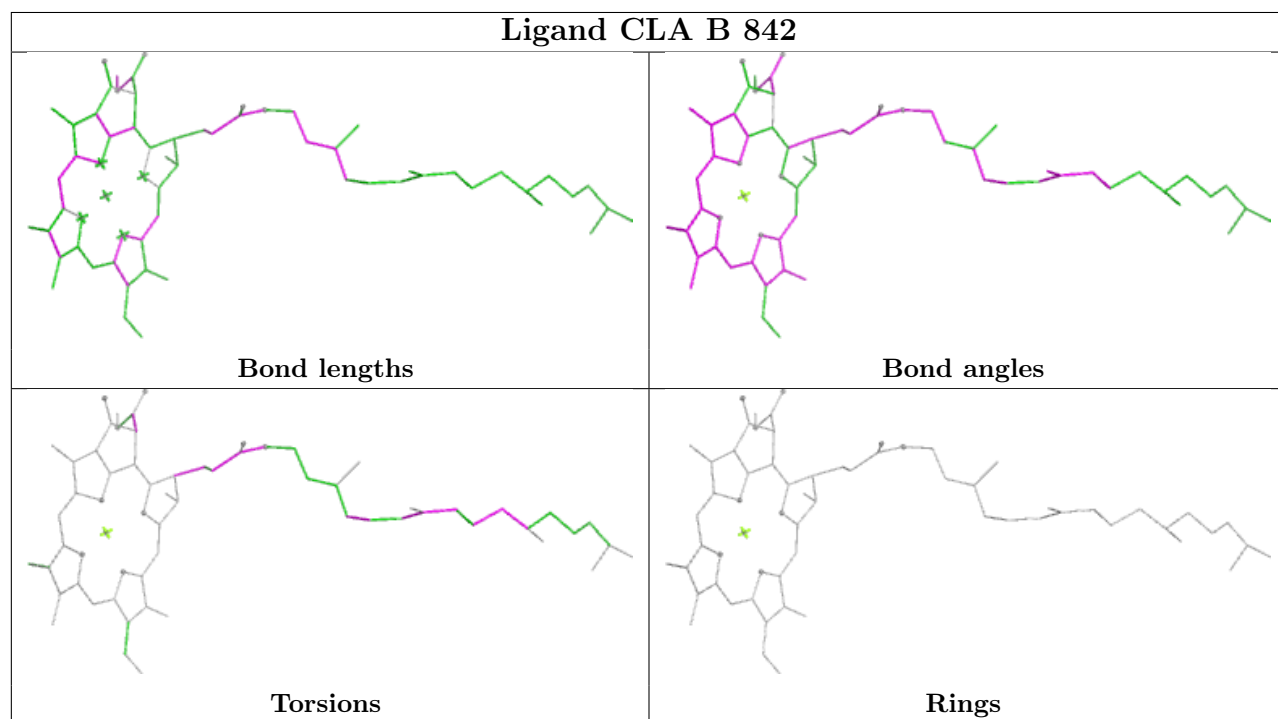
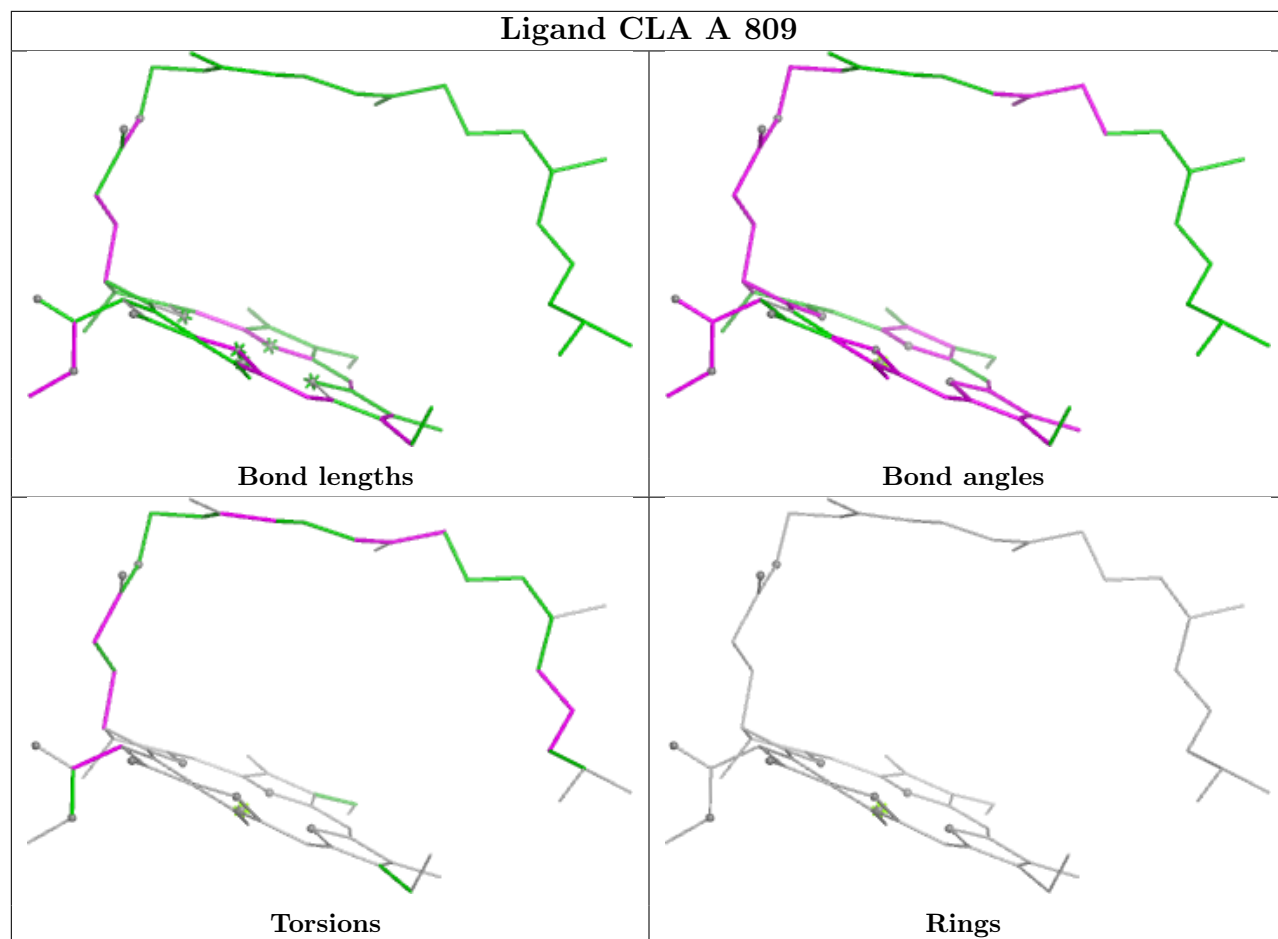


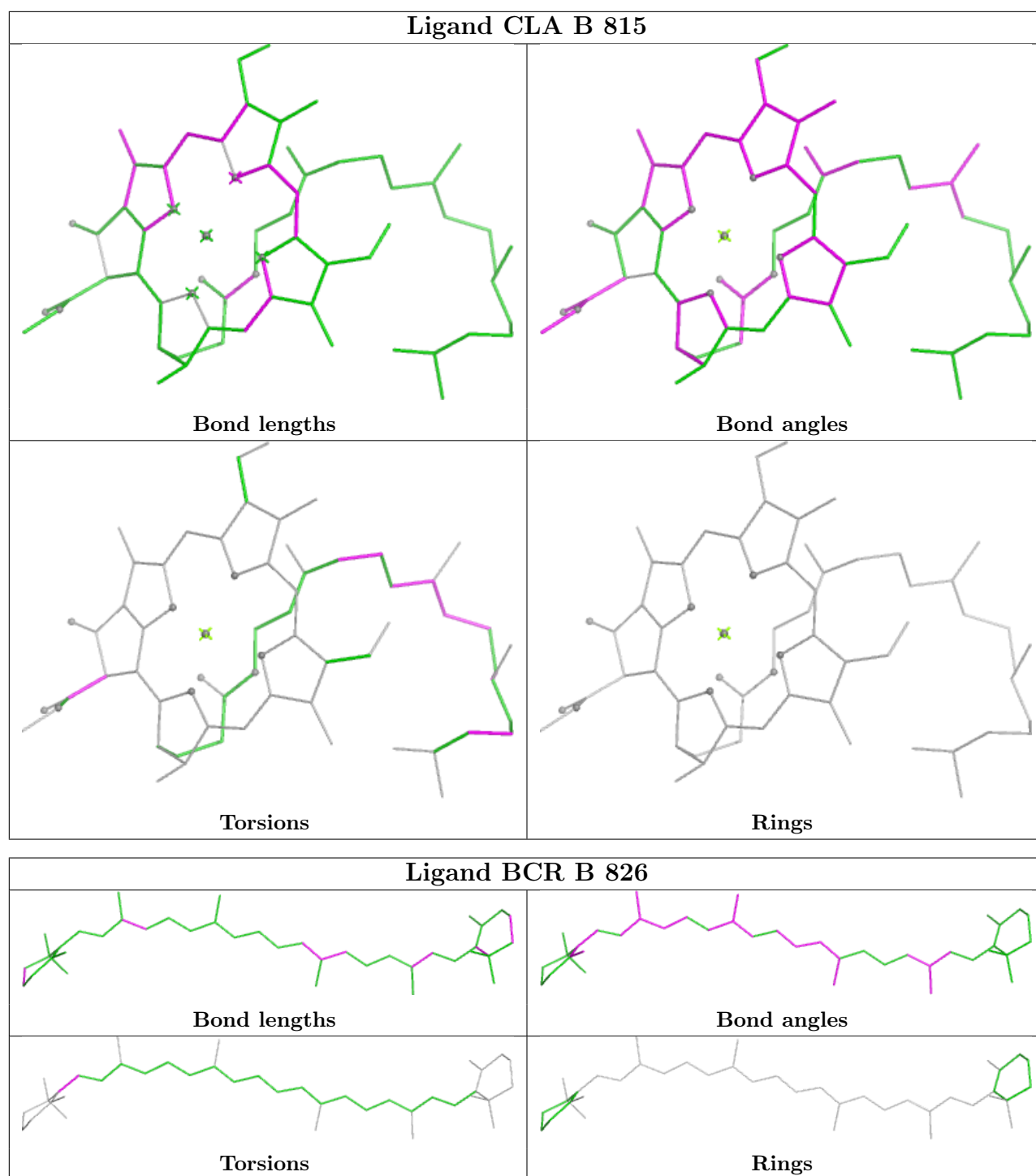


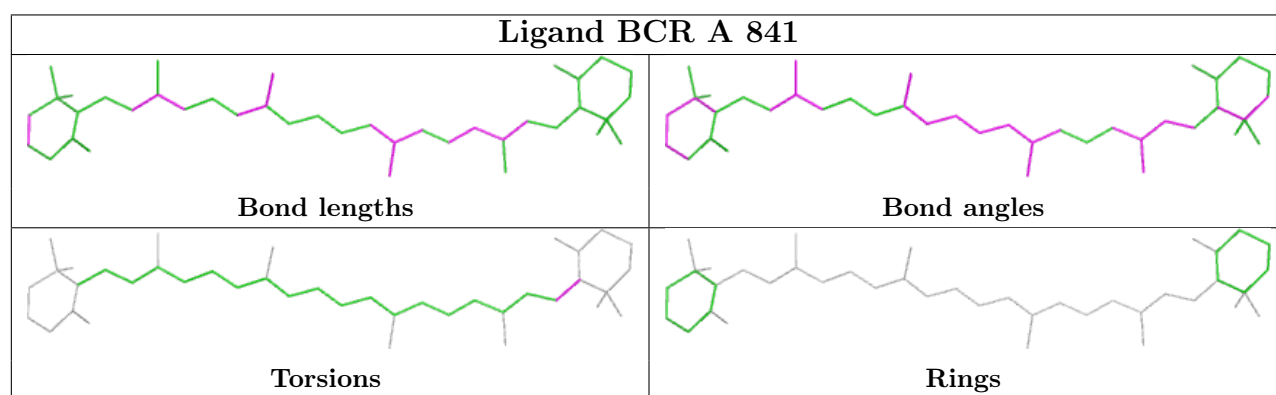
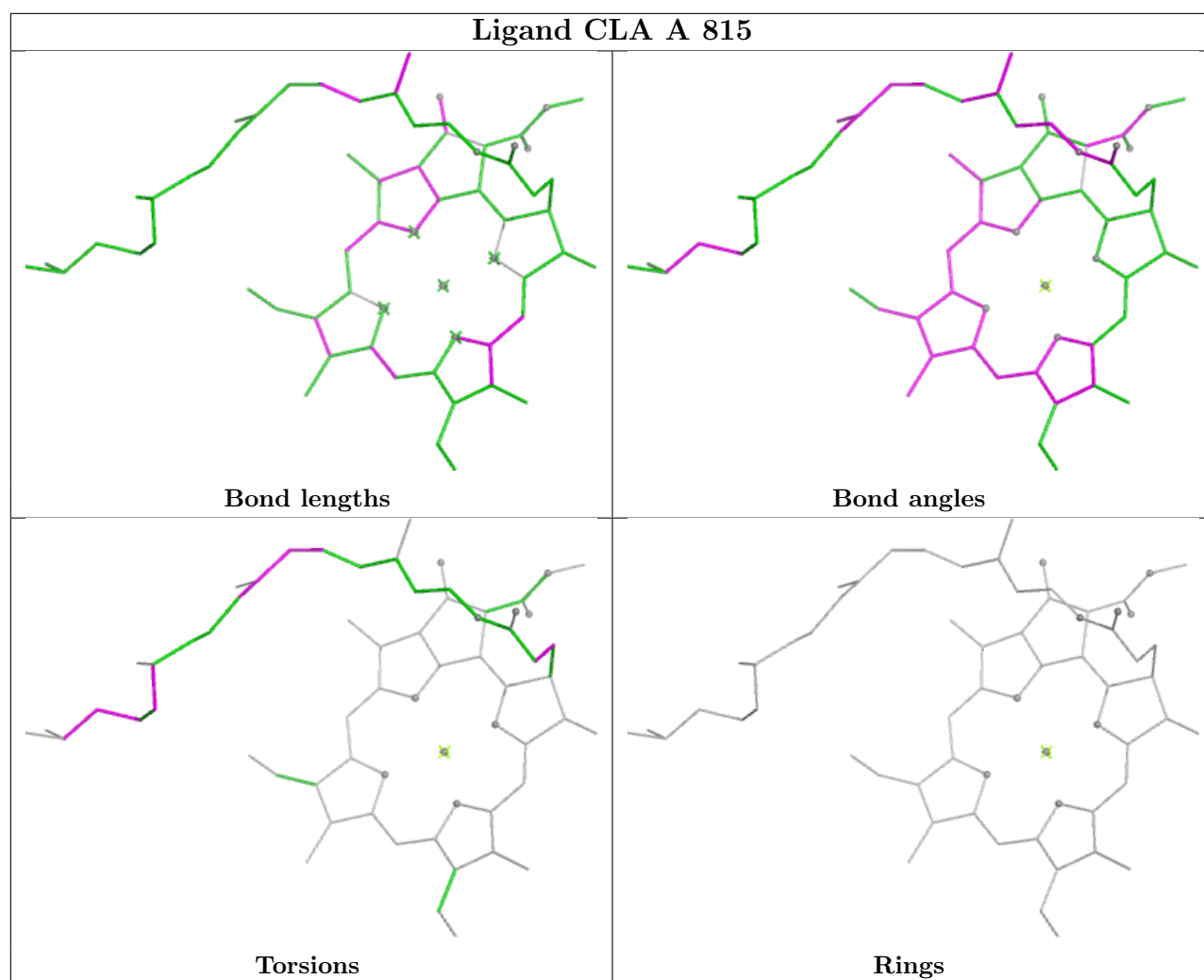


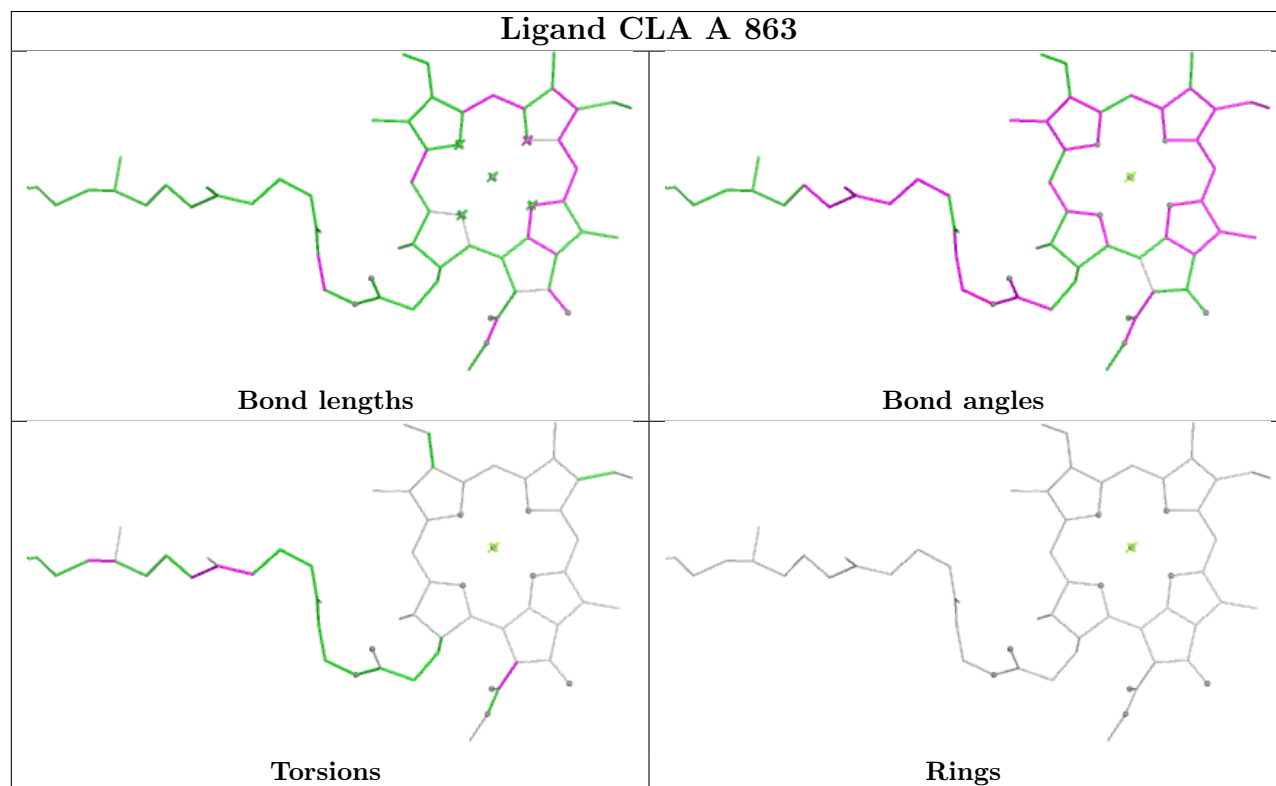
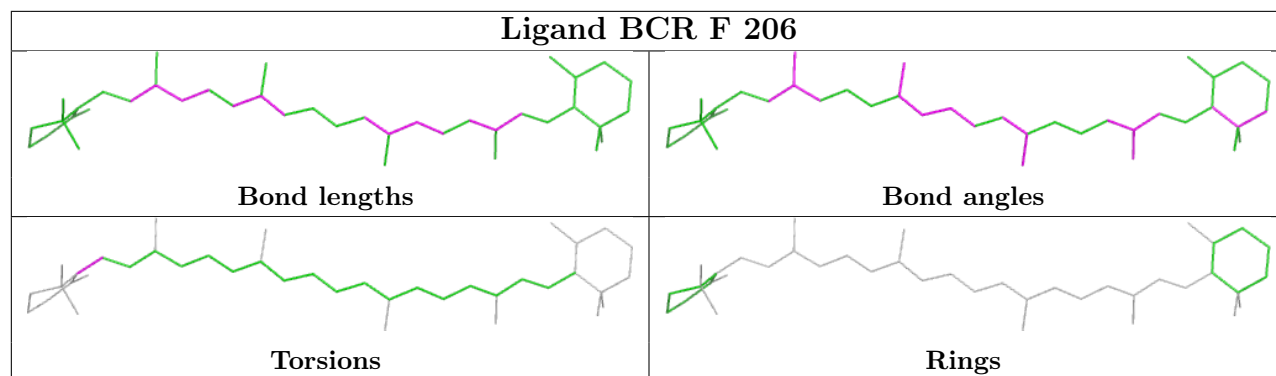


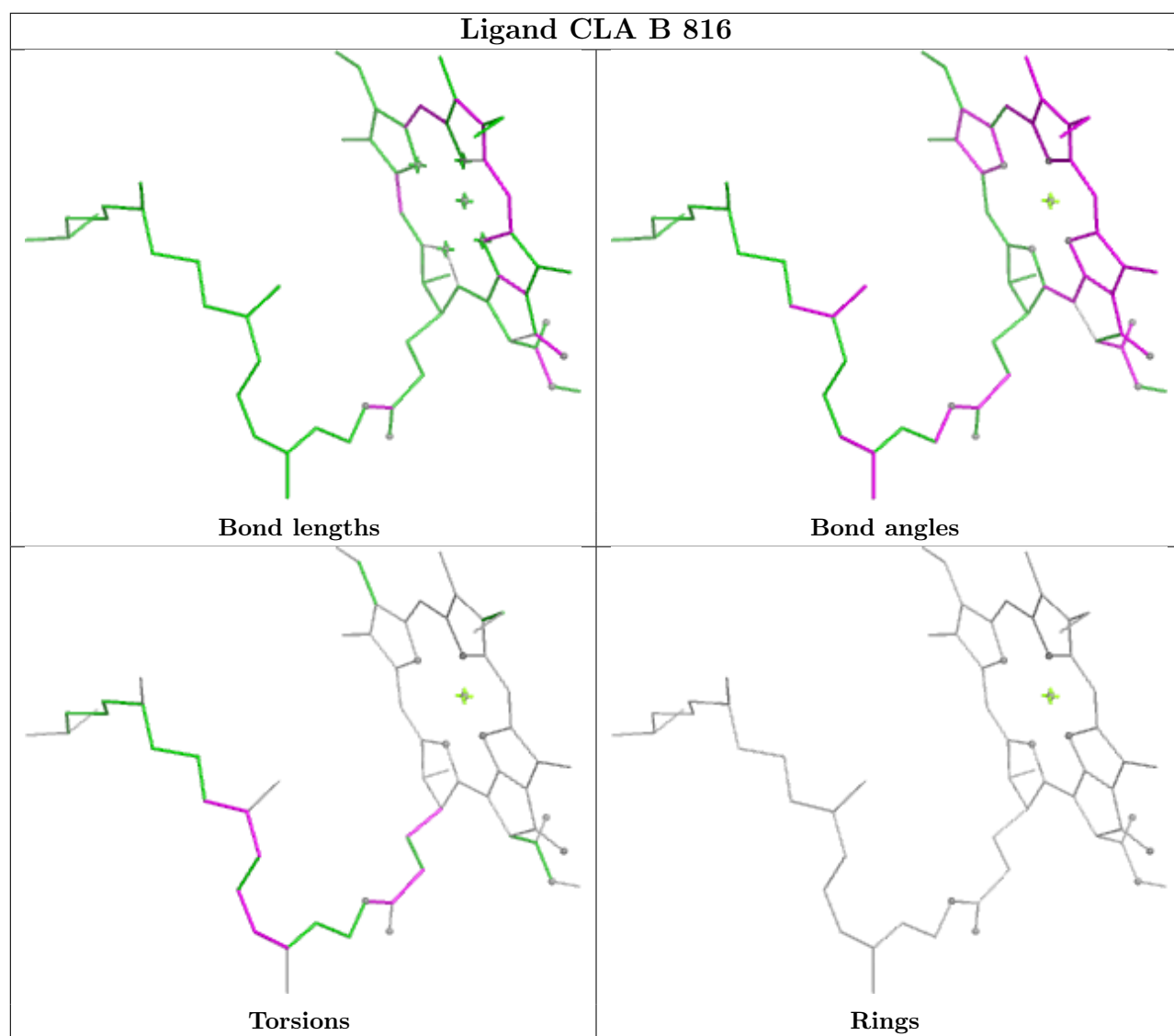


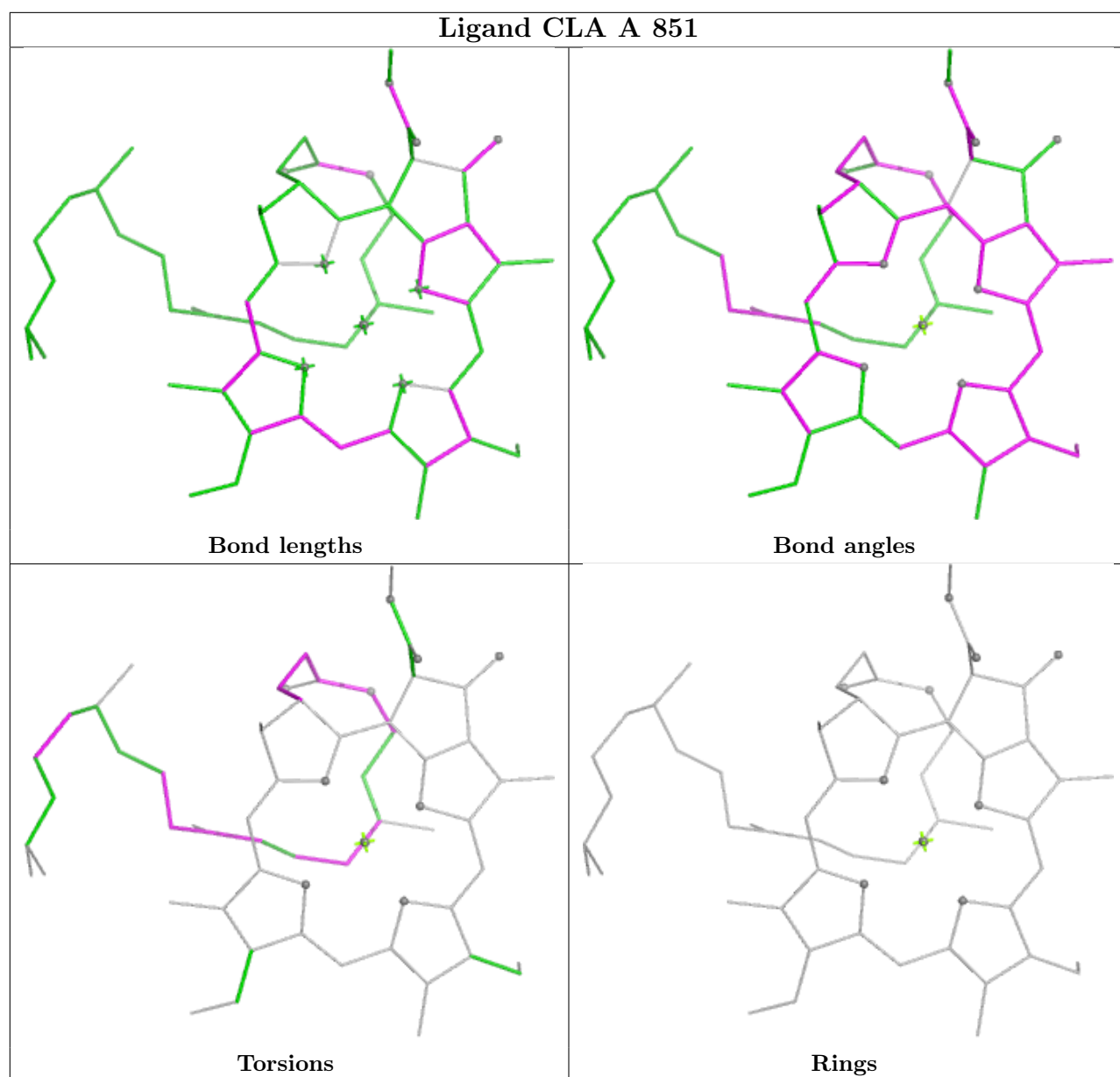


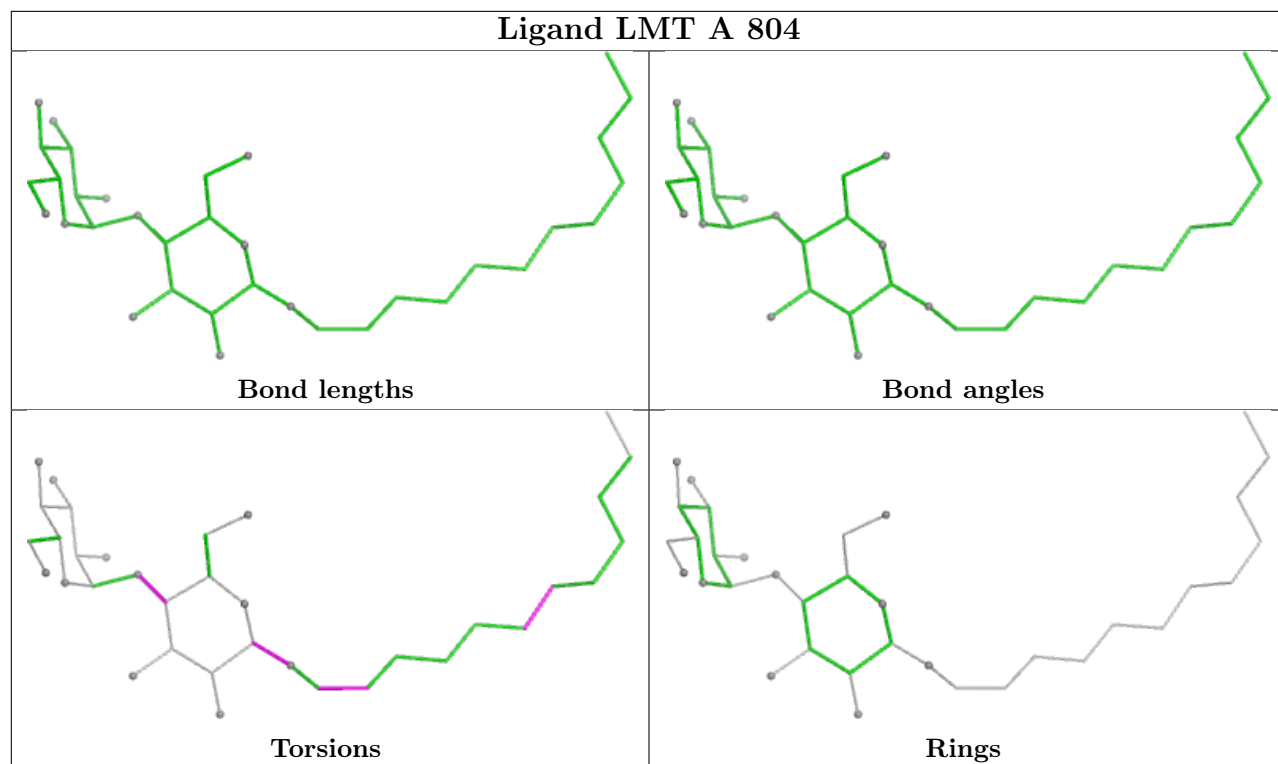


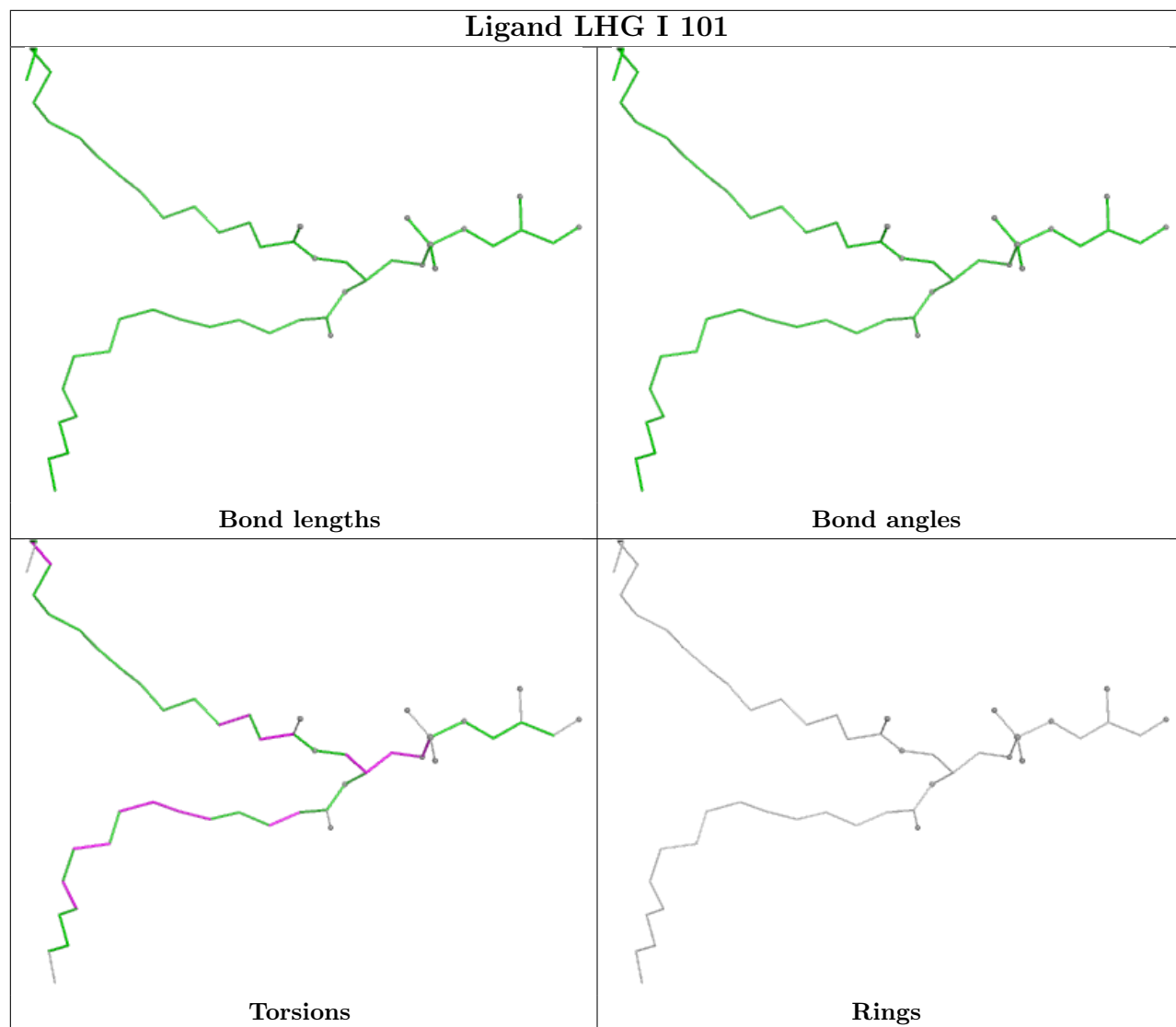


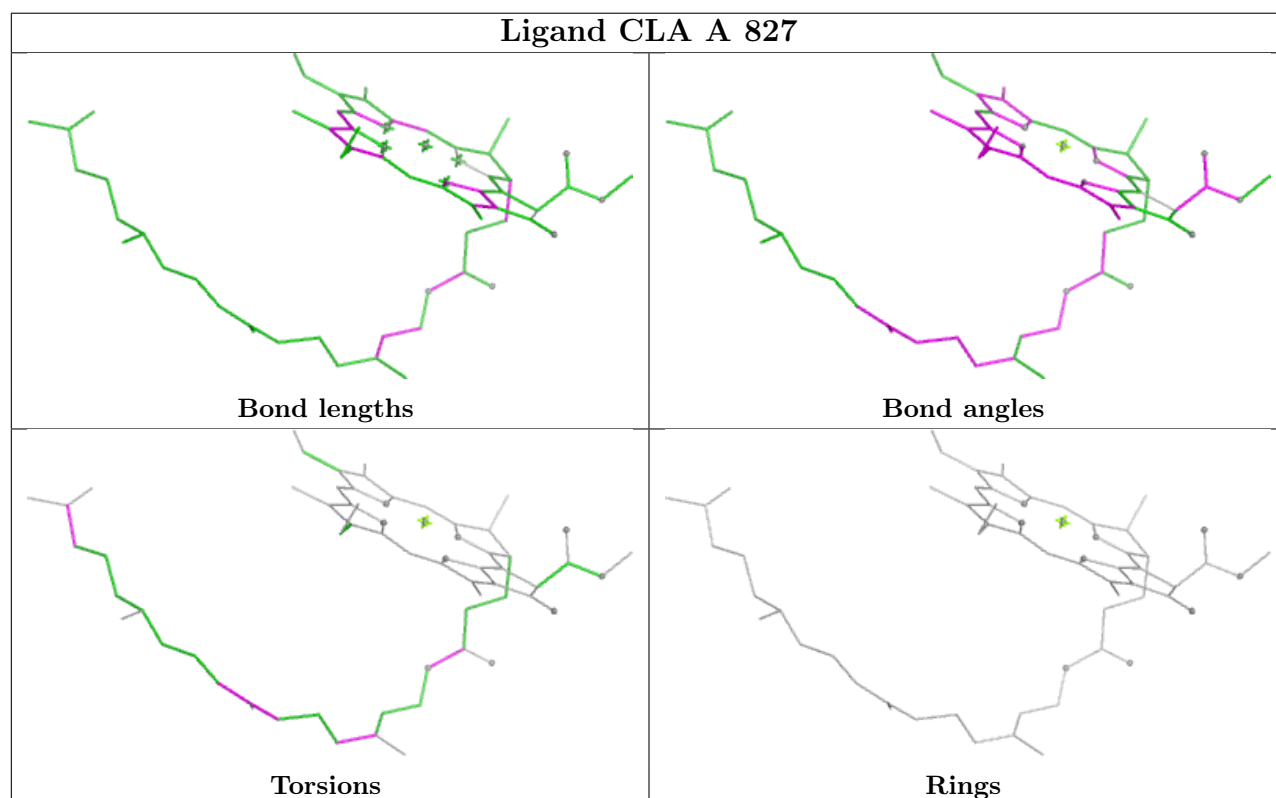
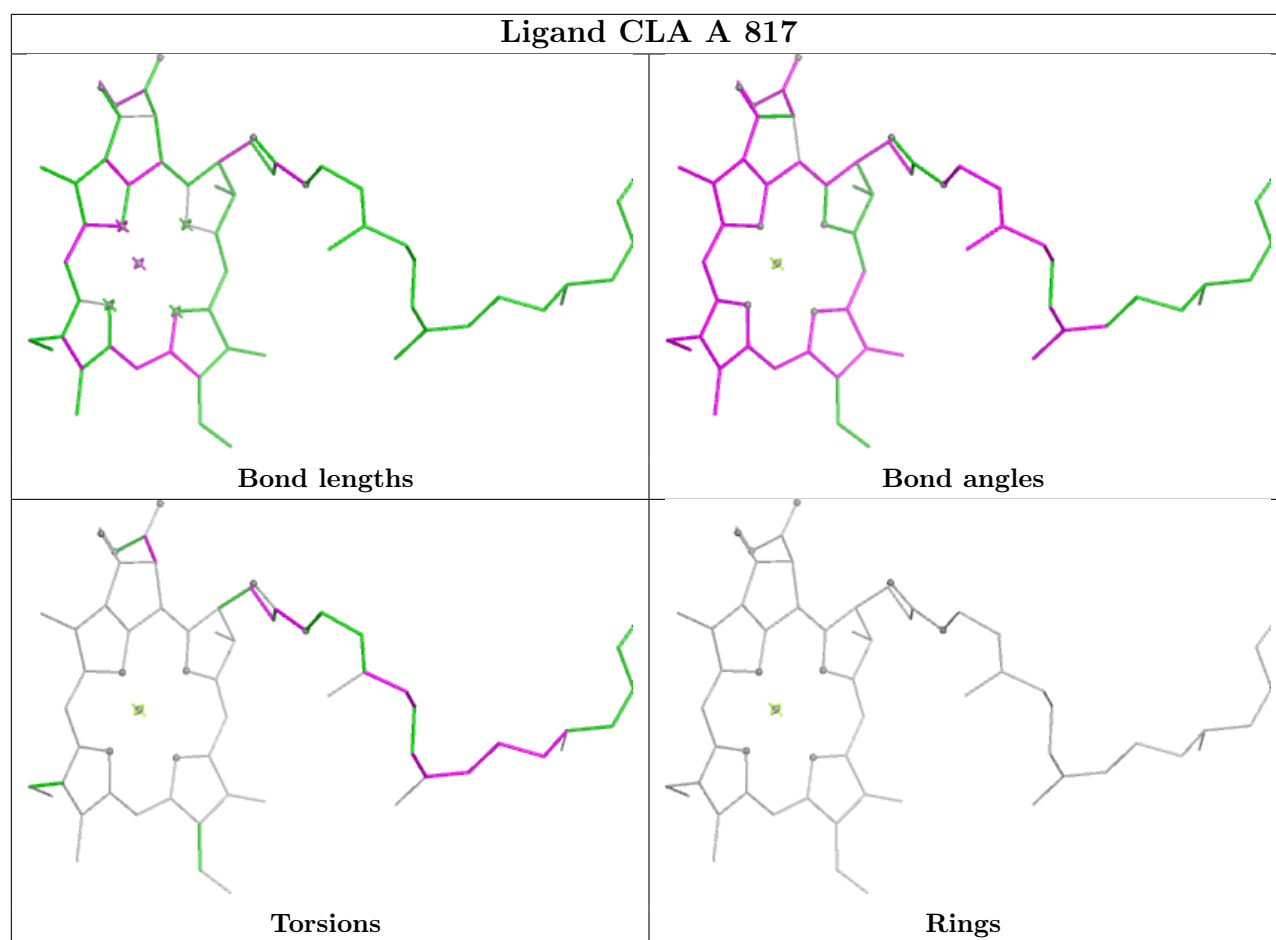


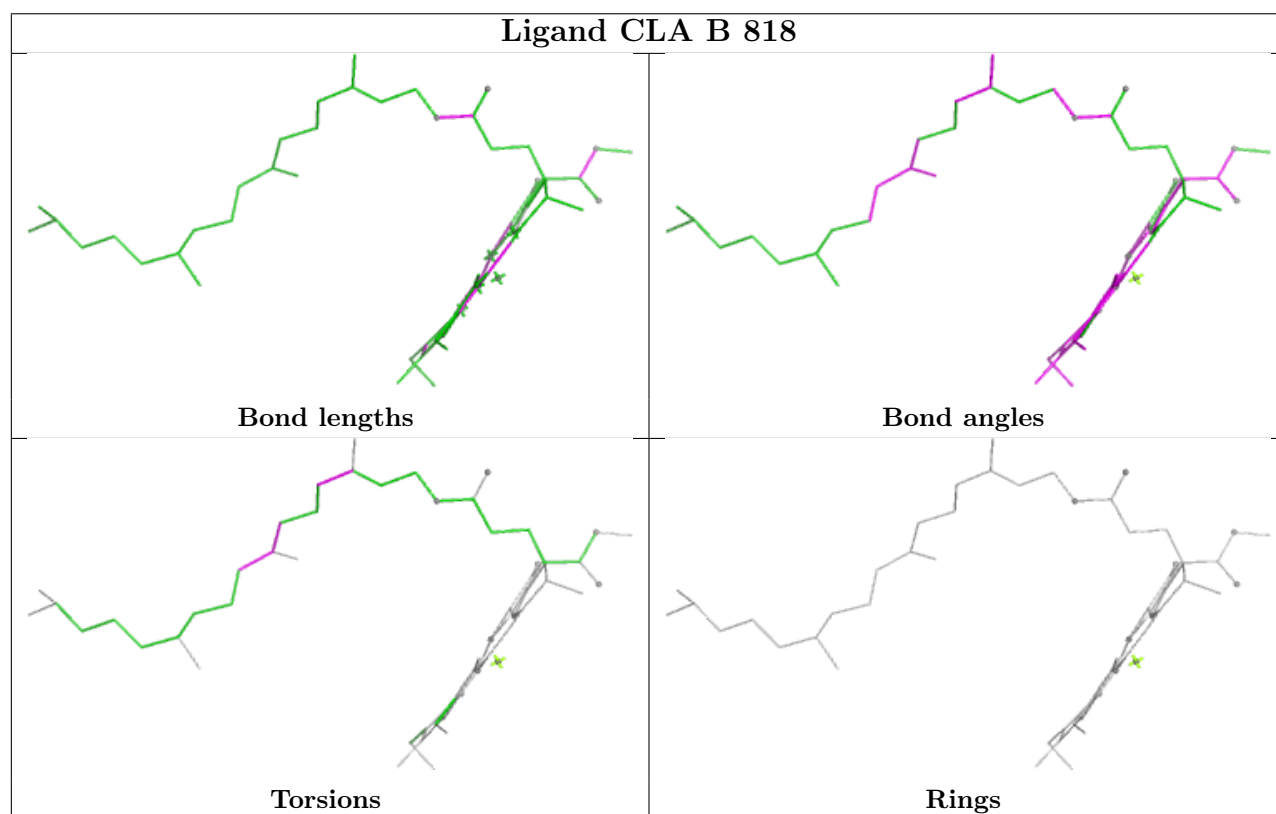
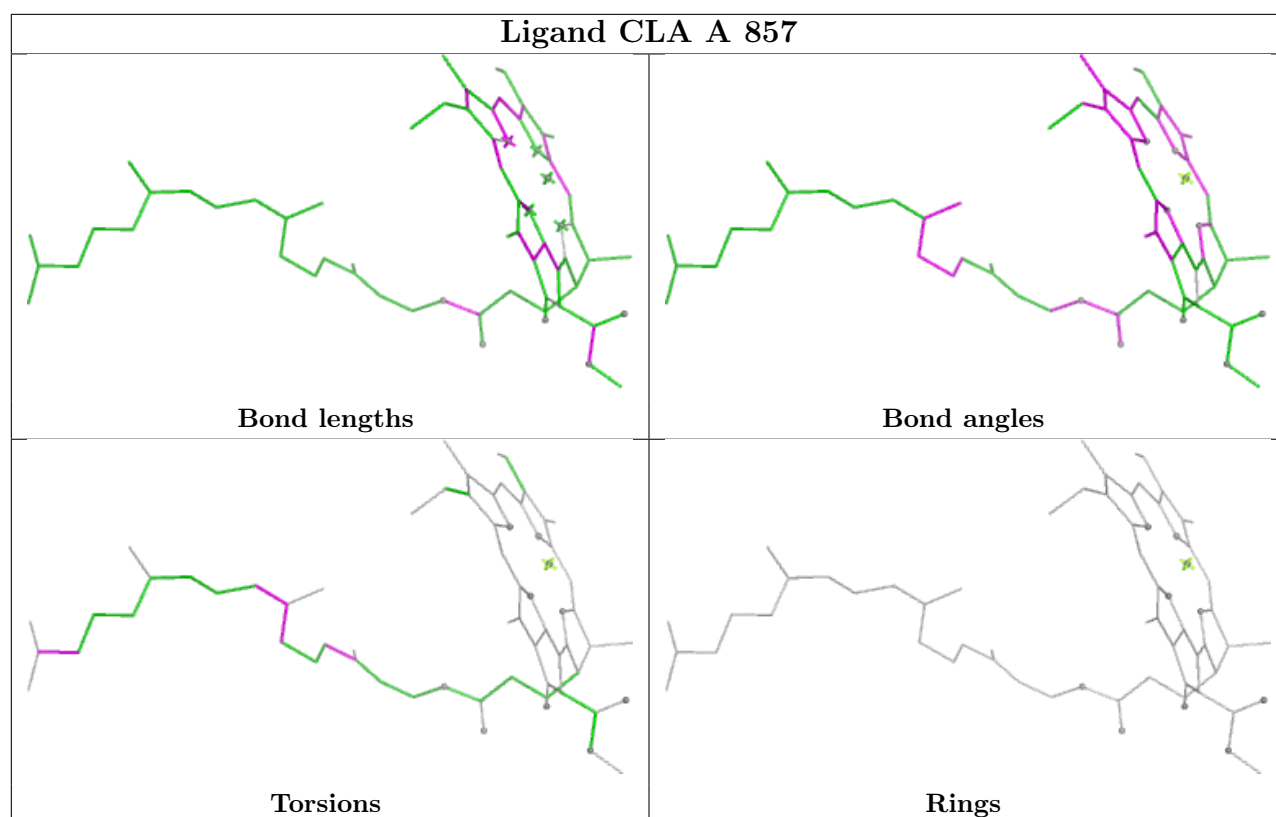


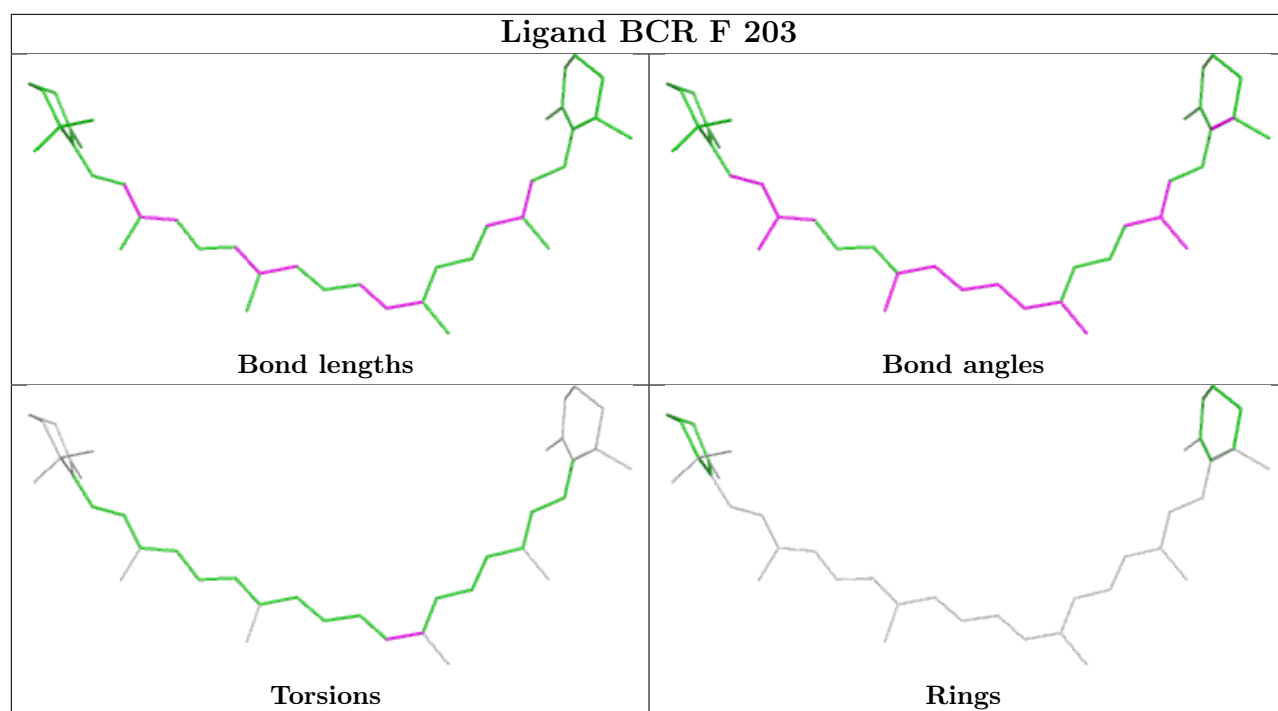




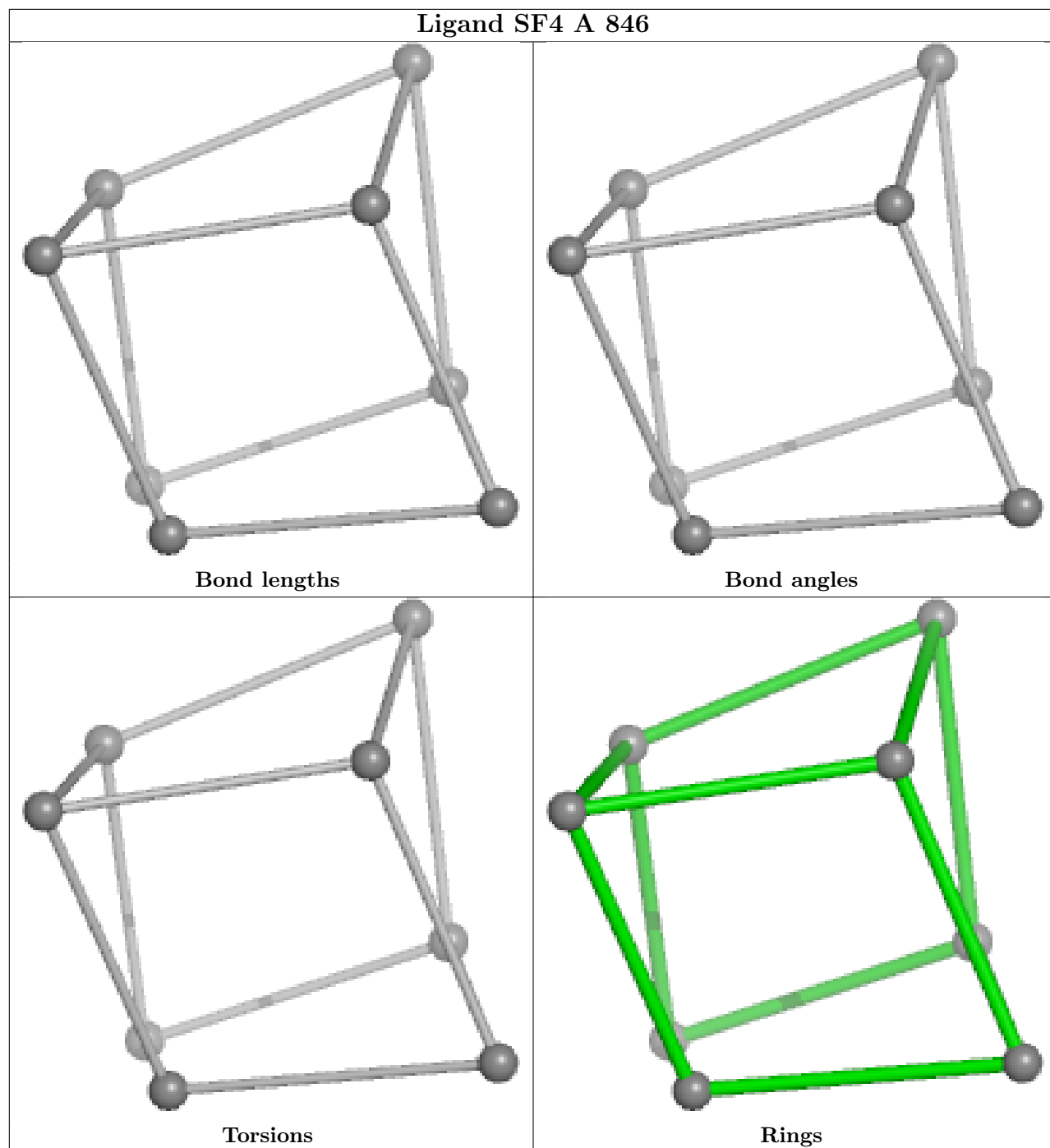


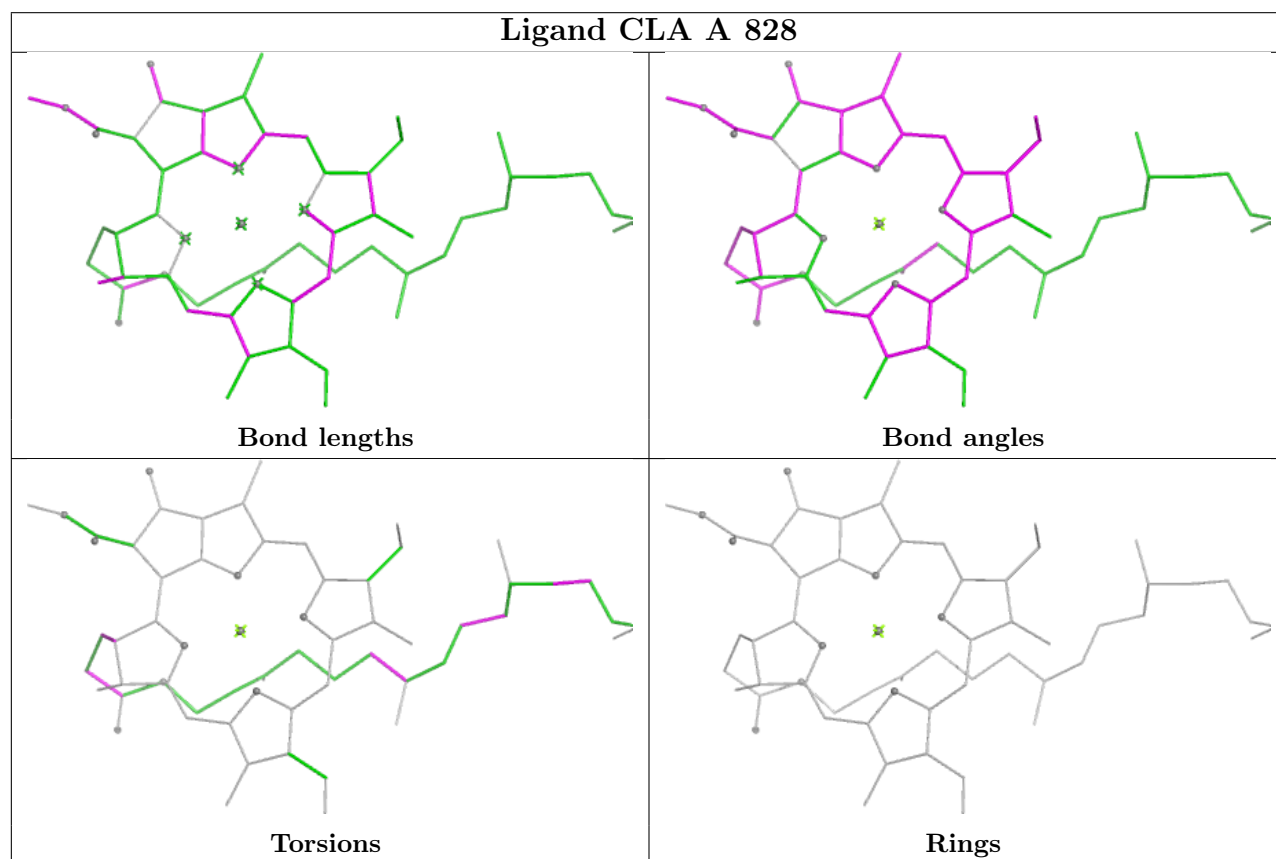
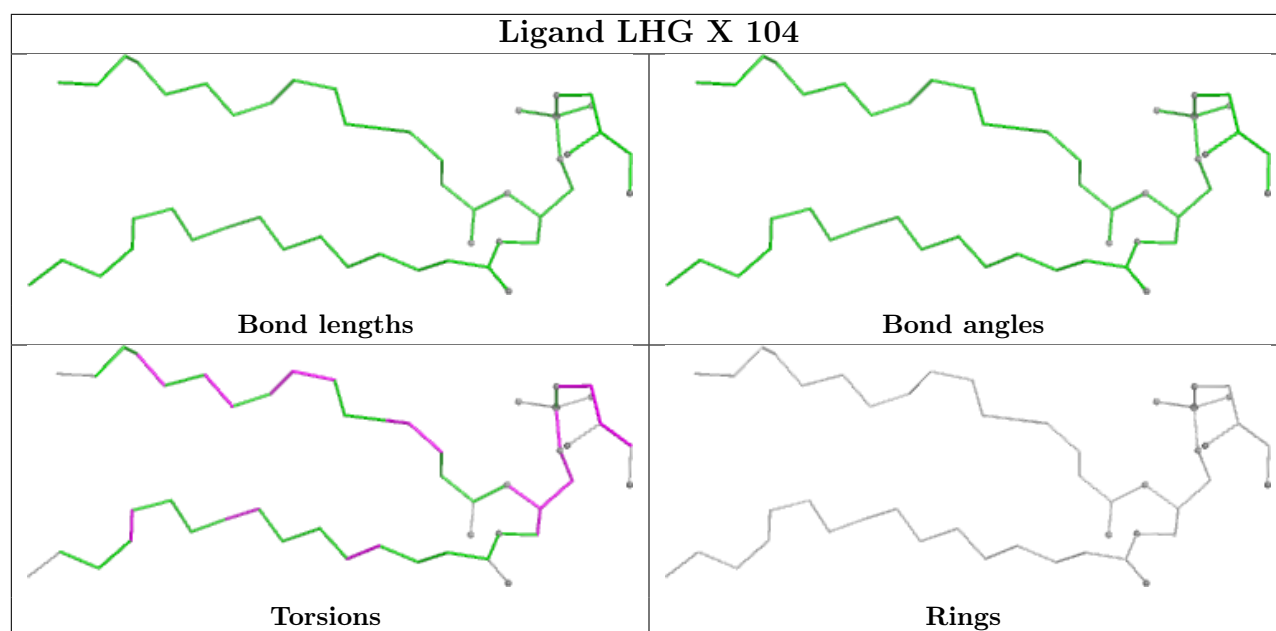


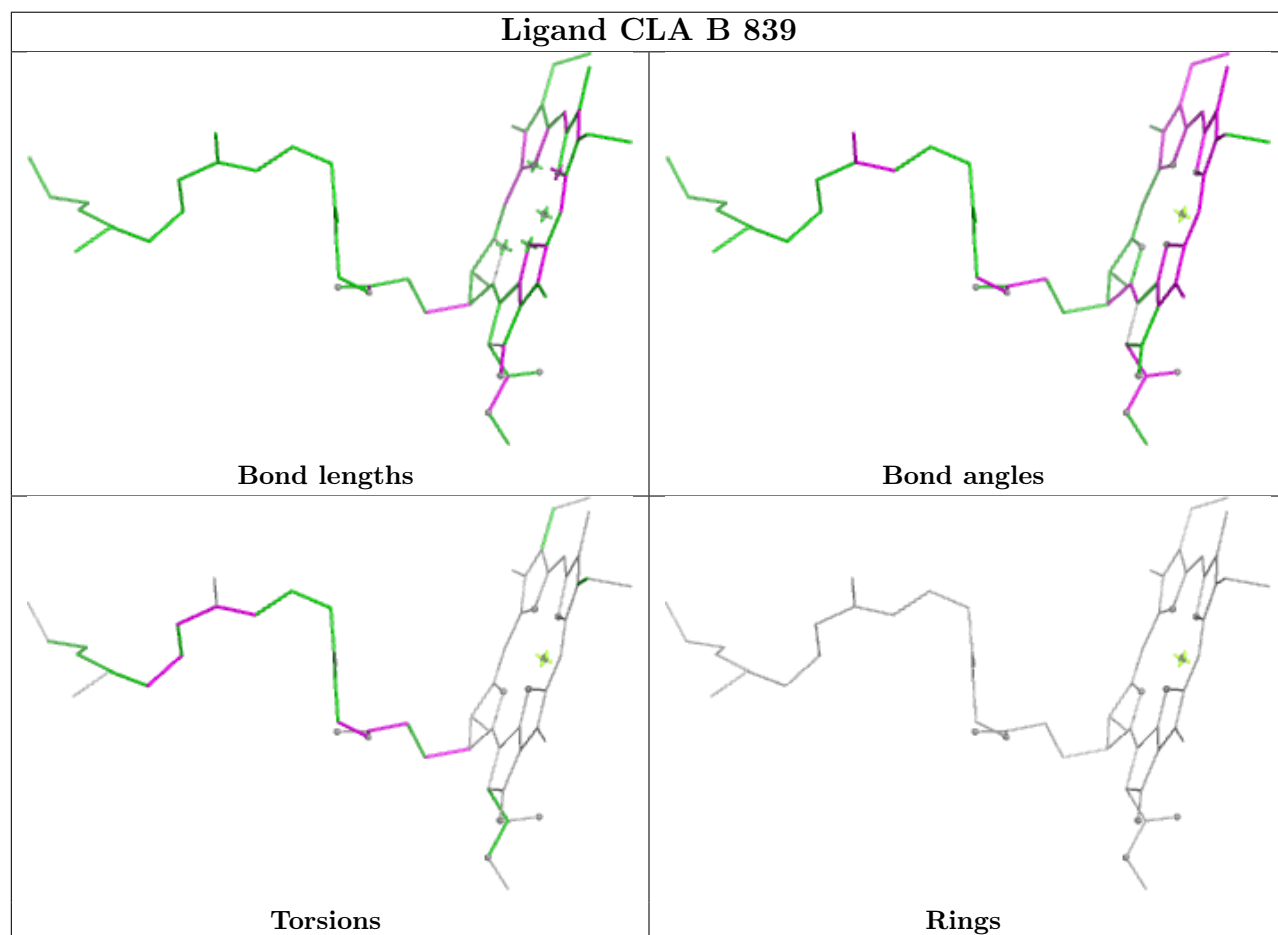
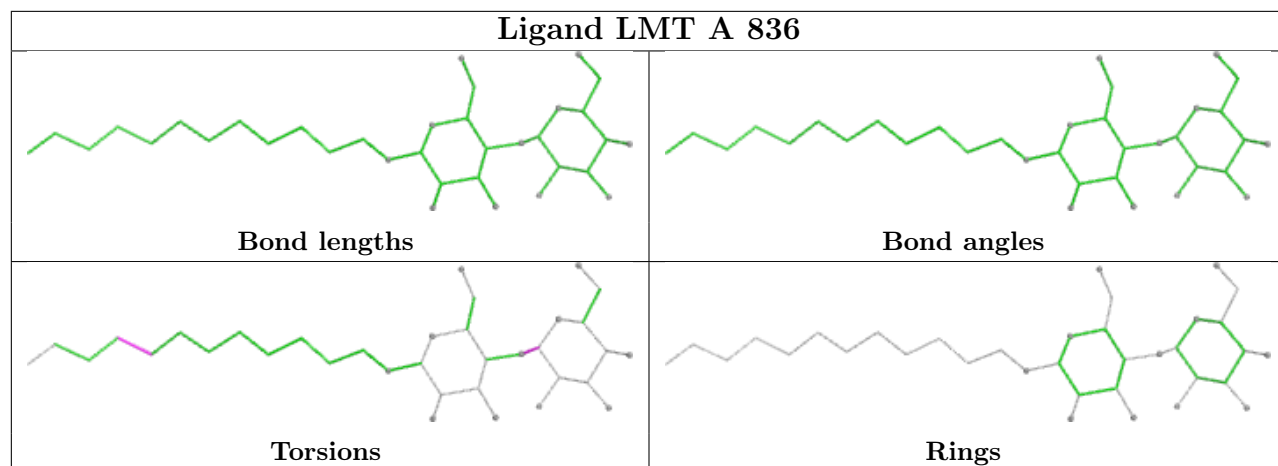


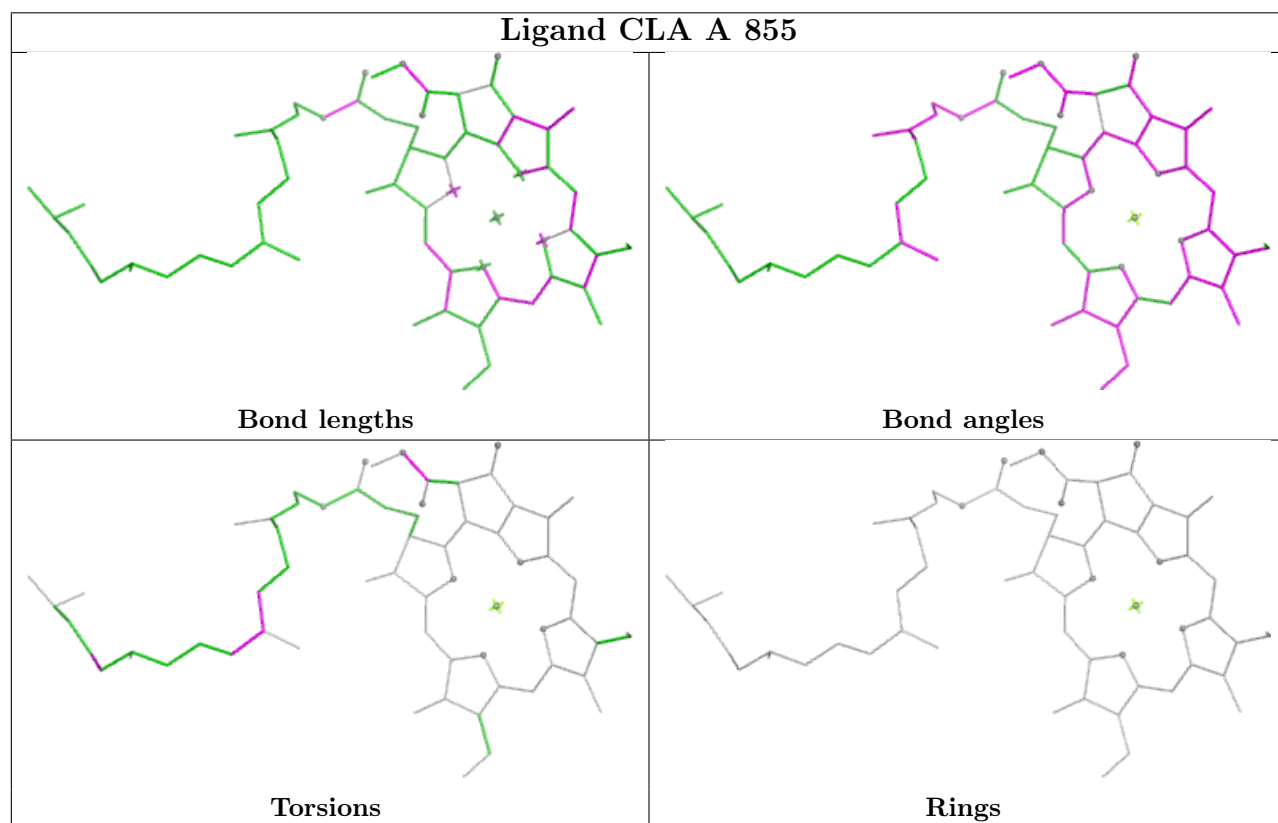
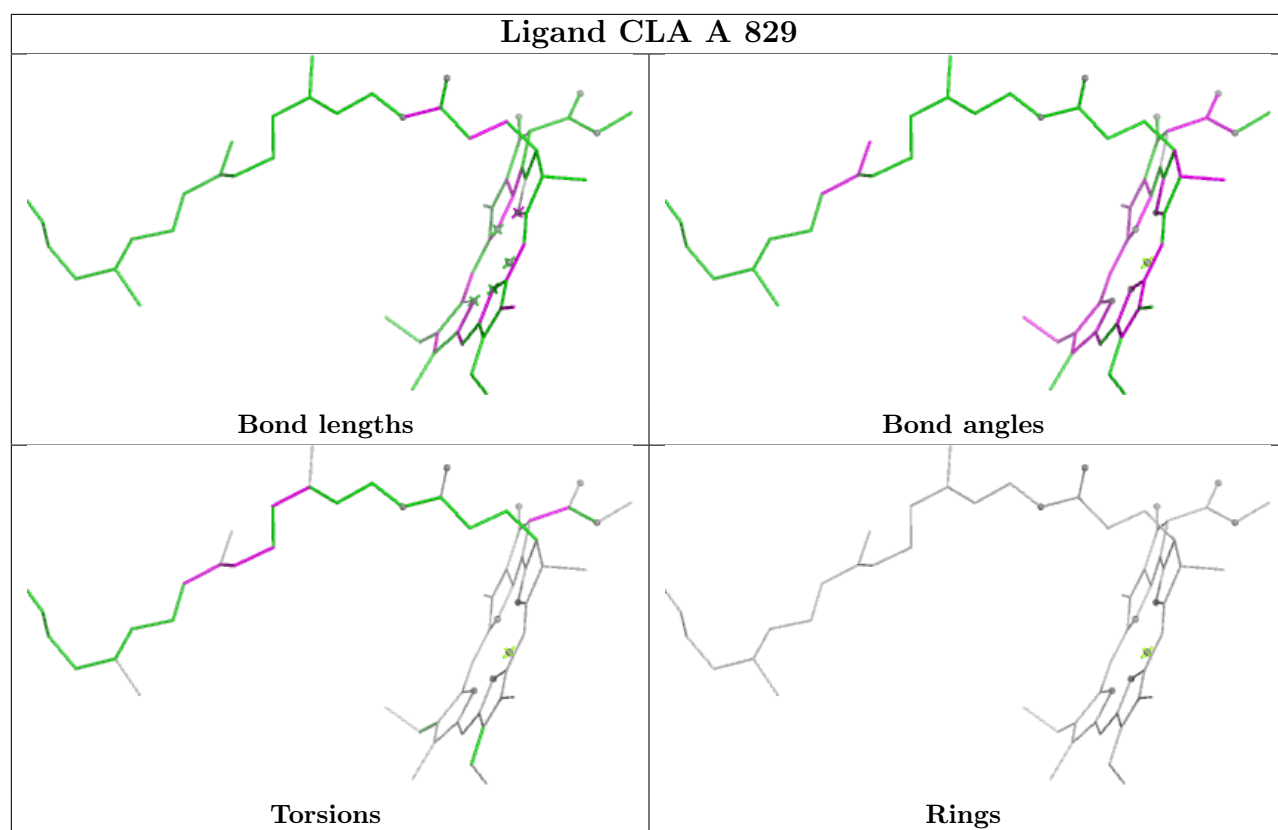


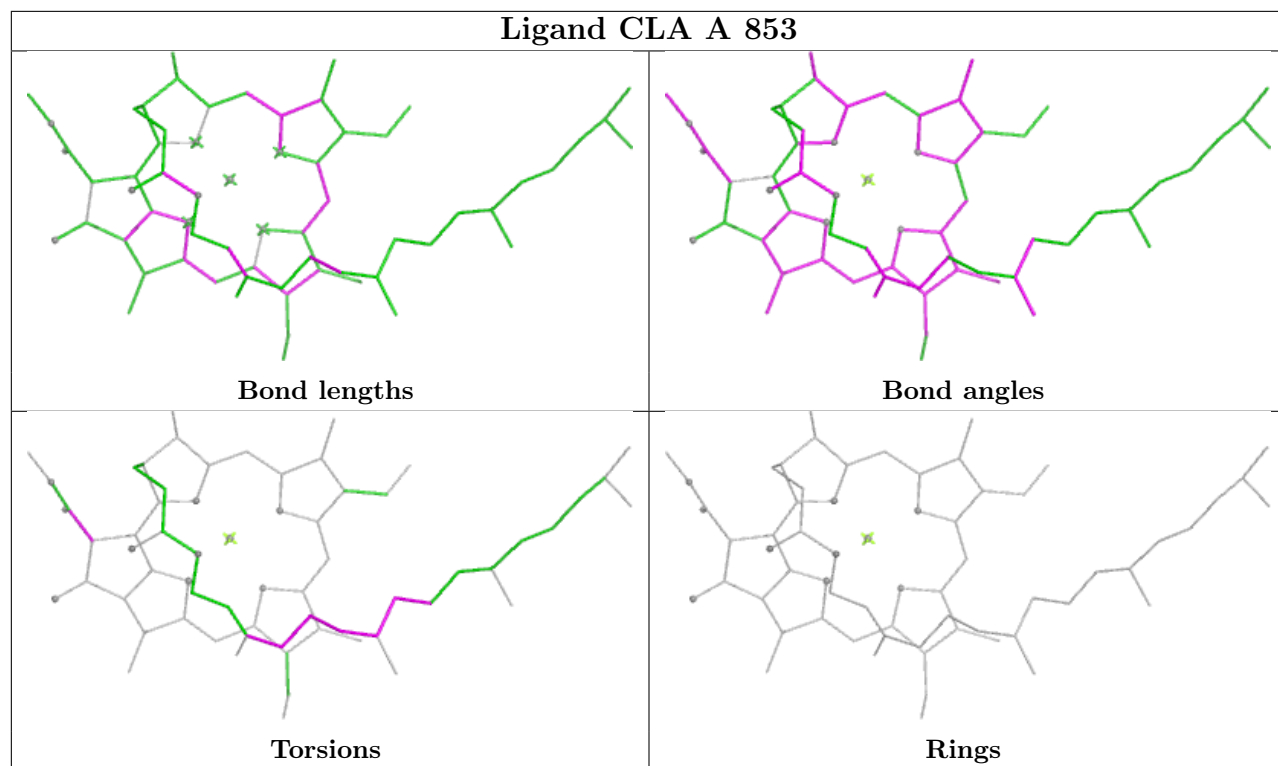
Ligand SF4 A 846



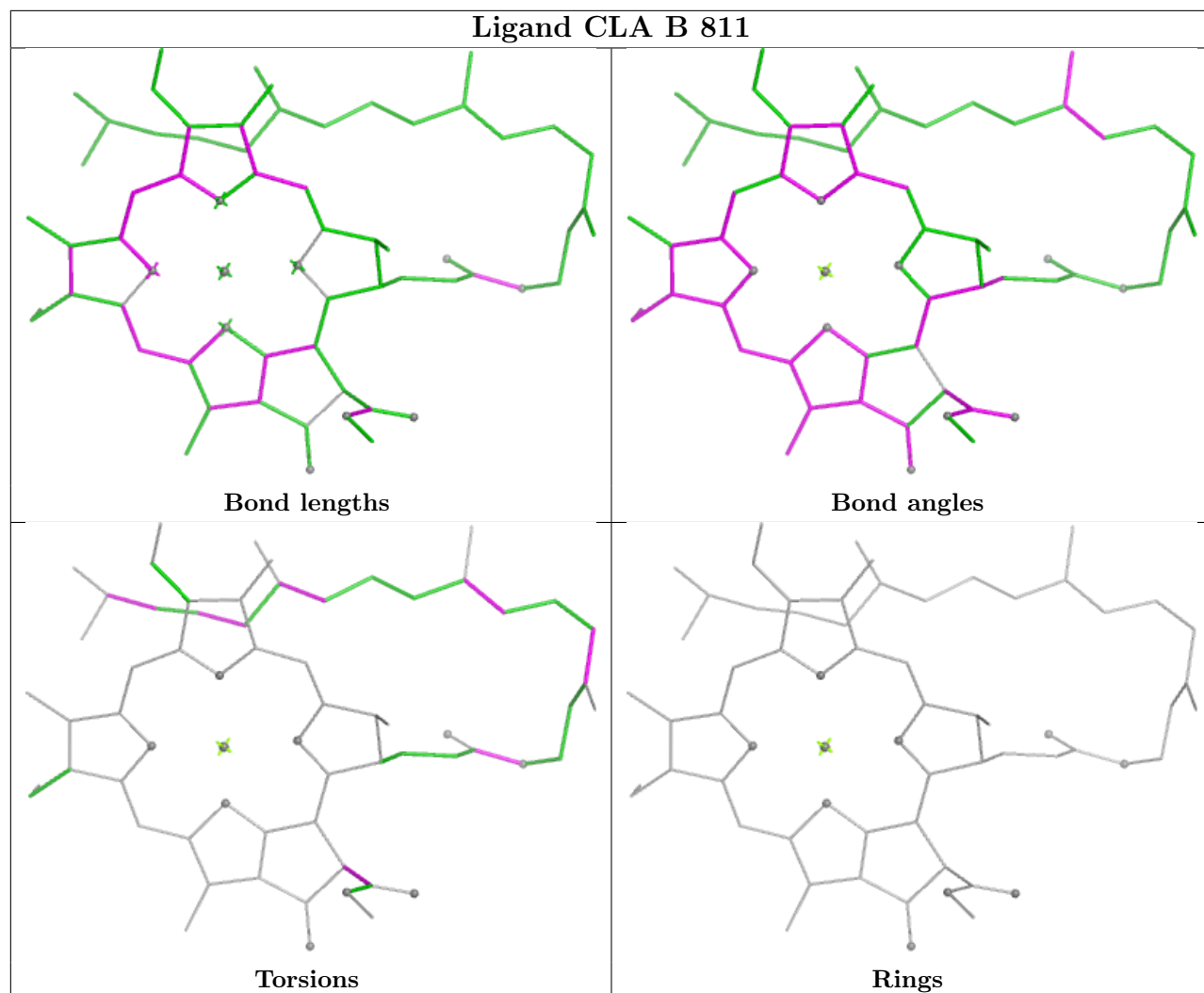


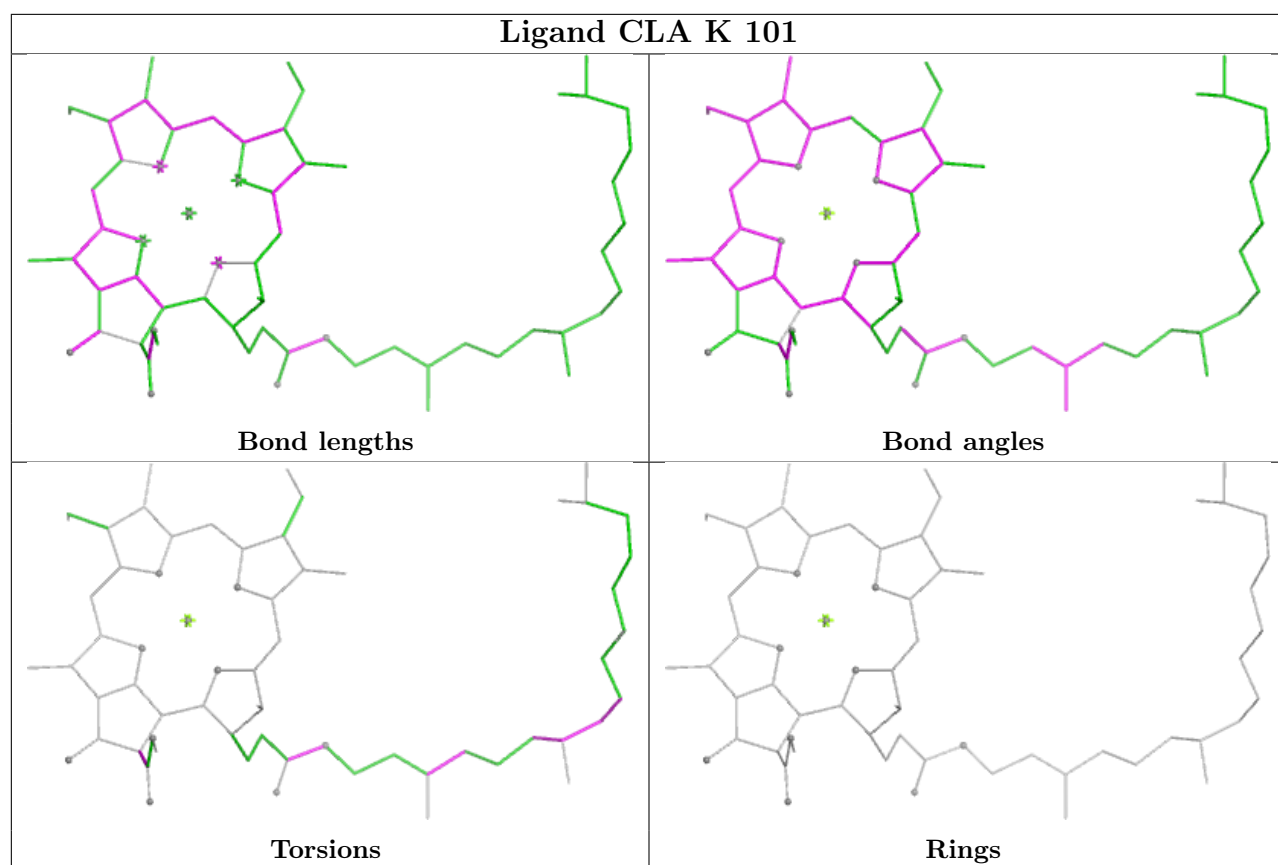


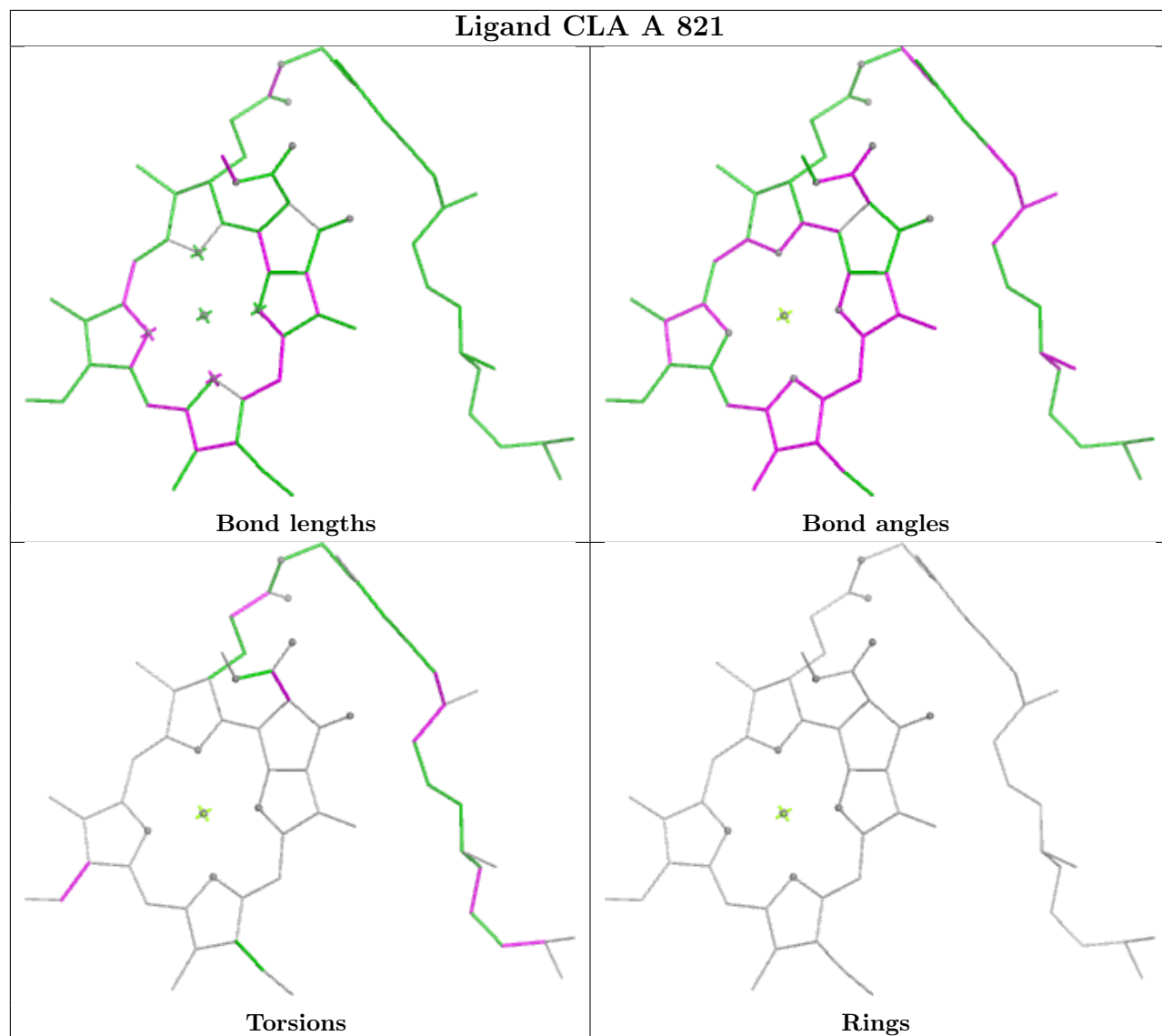


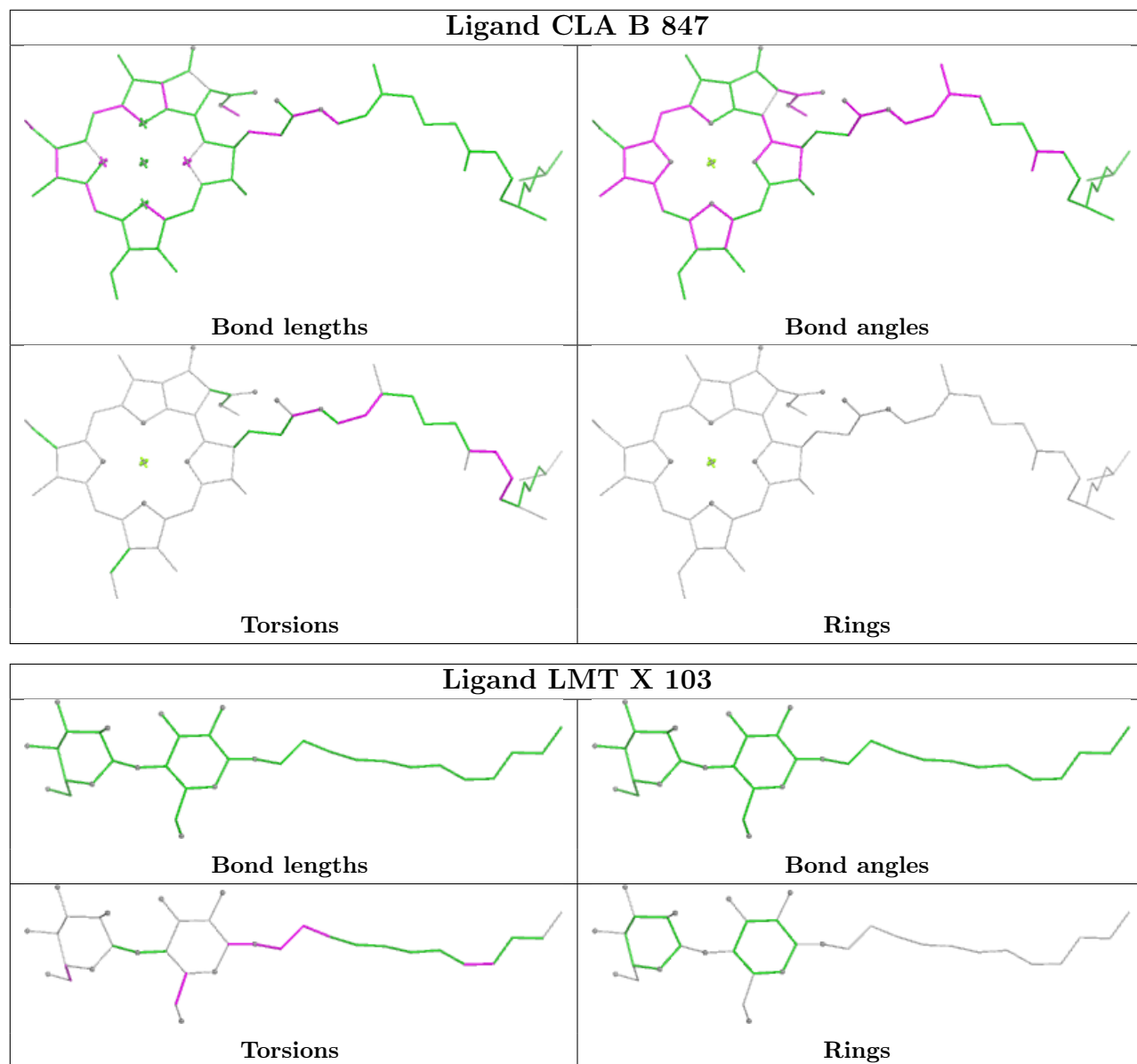


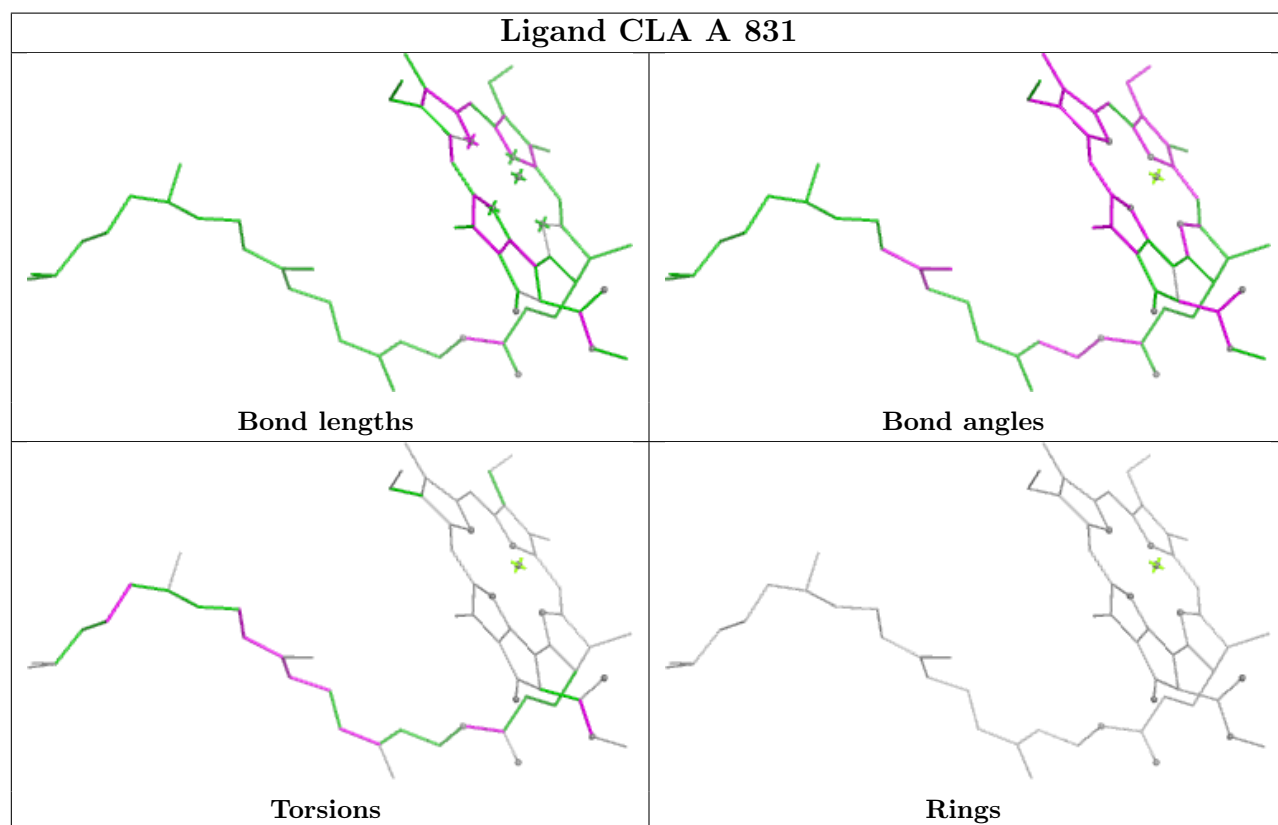
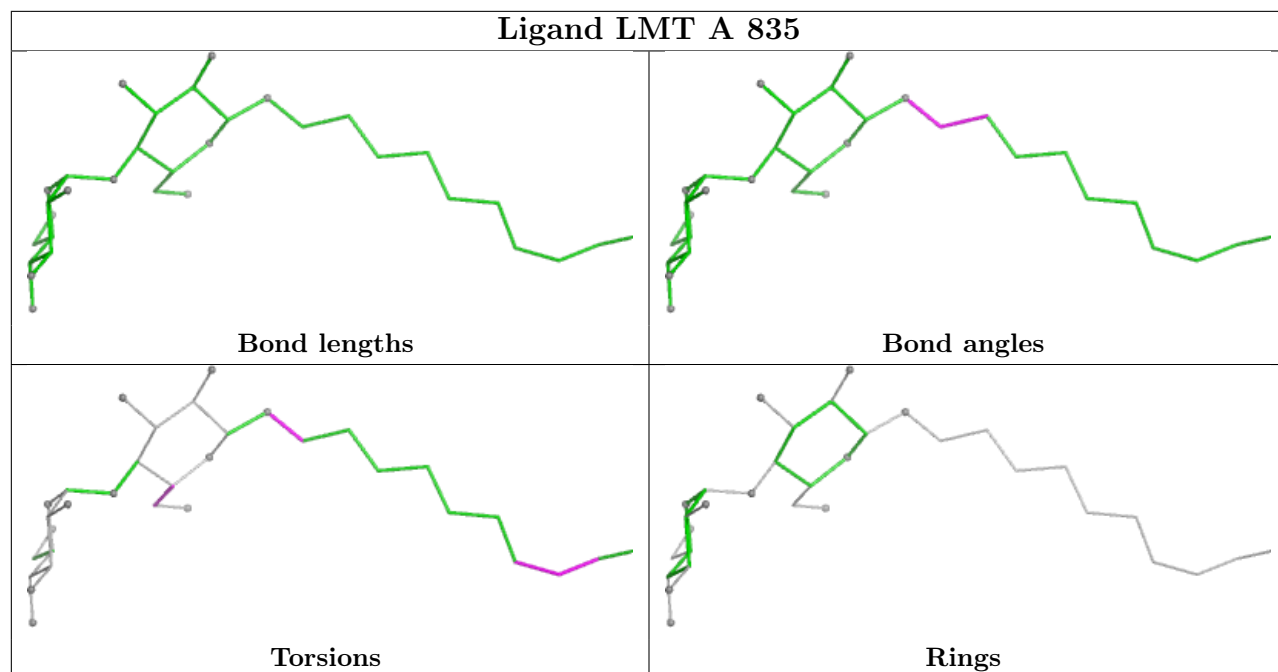
Ligand CLA B 811

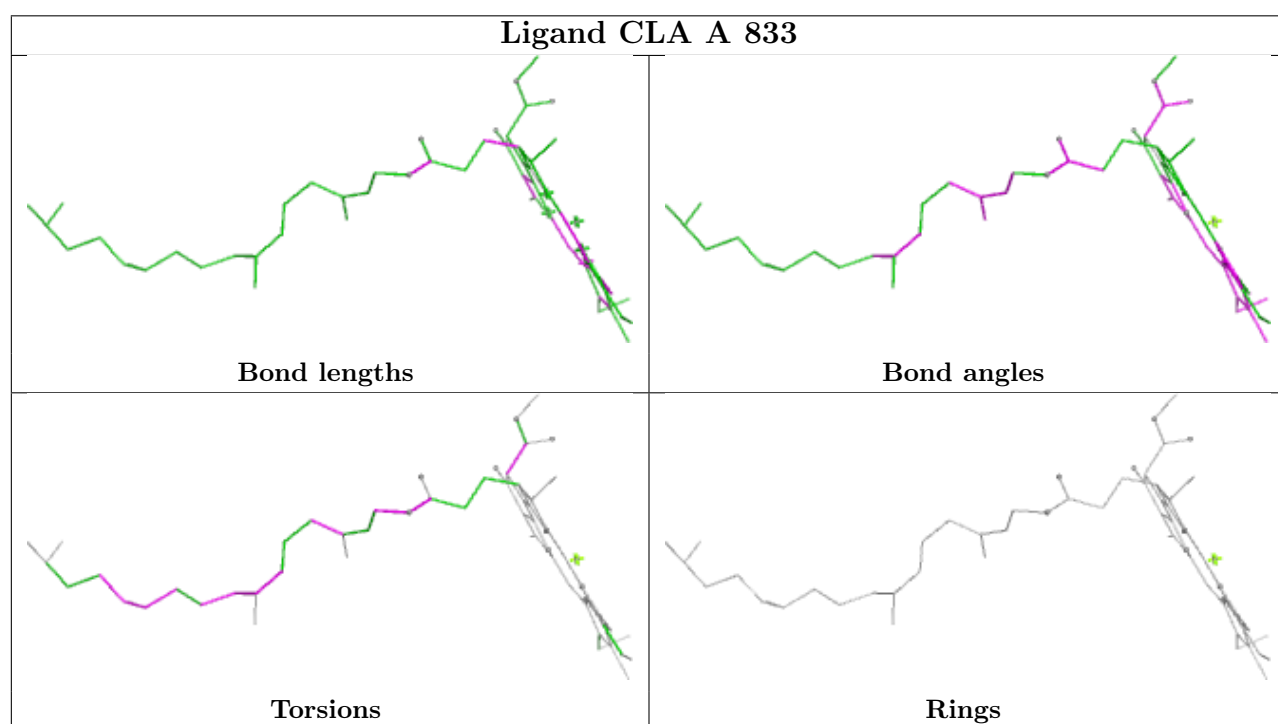
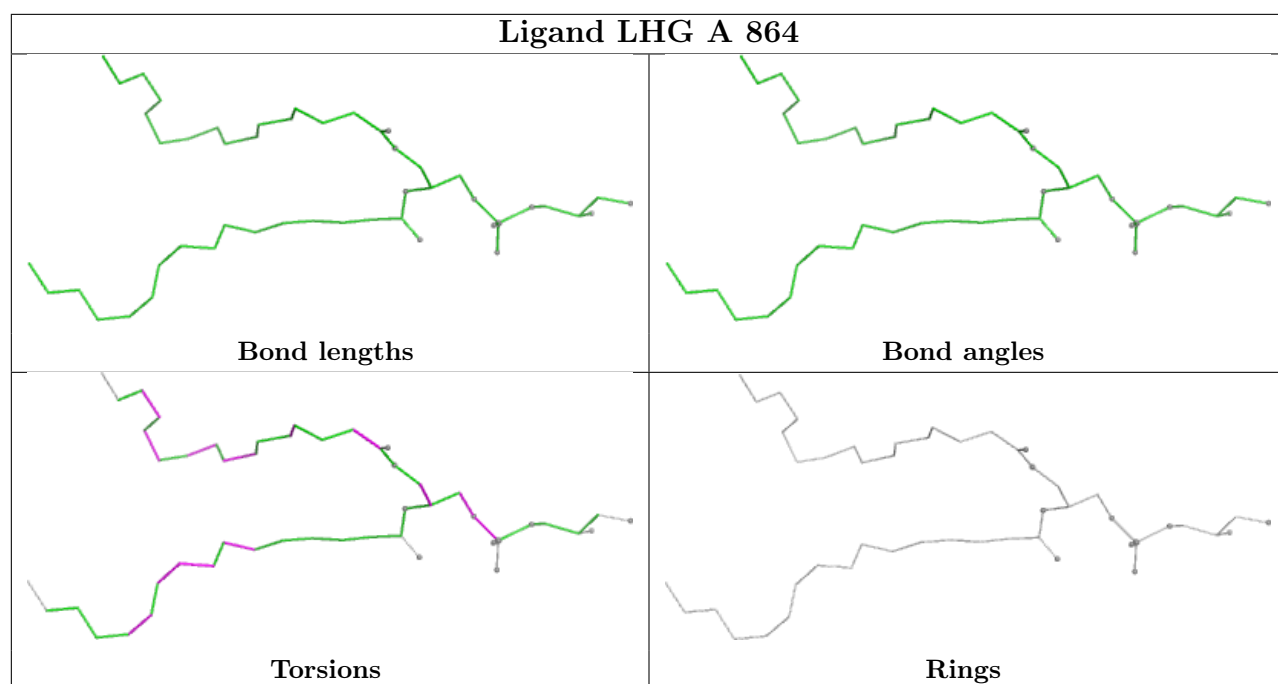


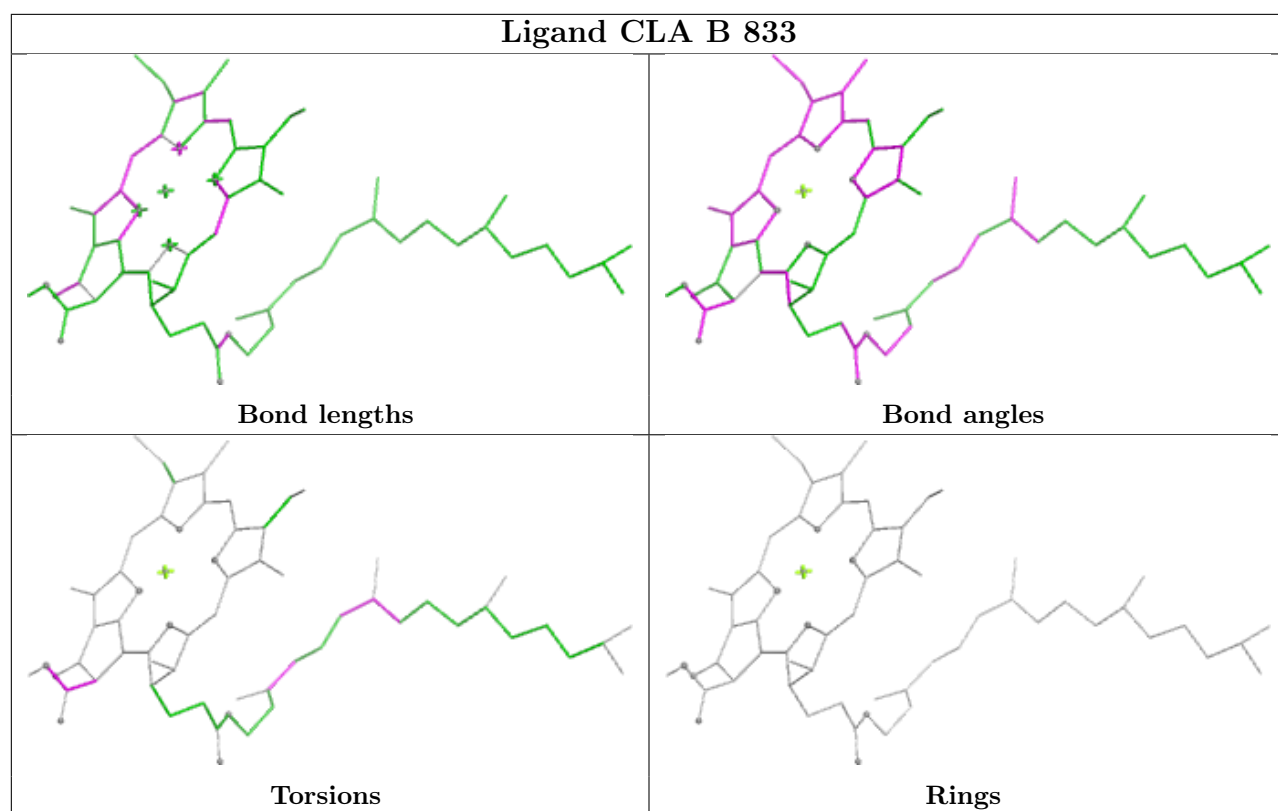


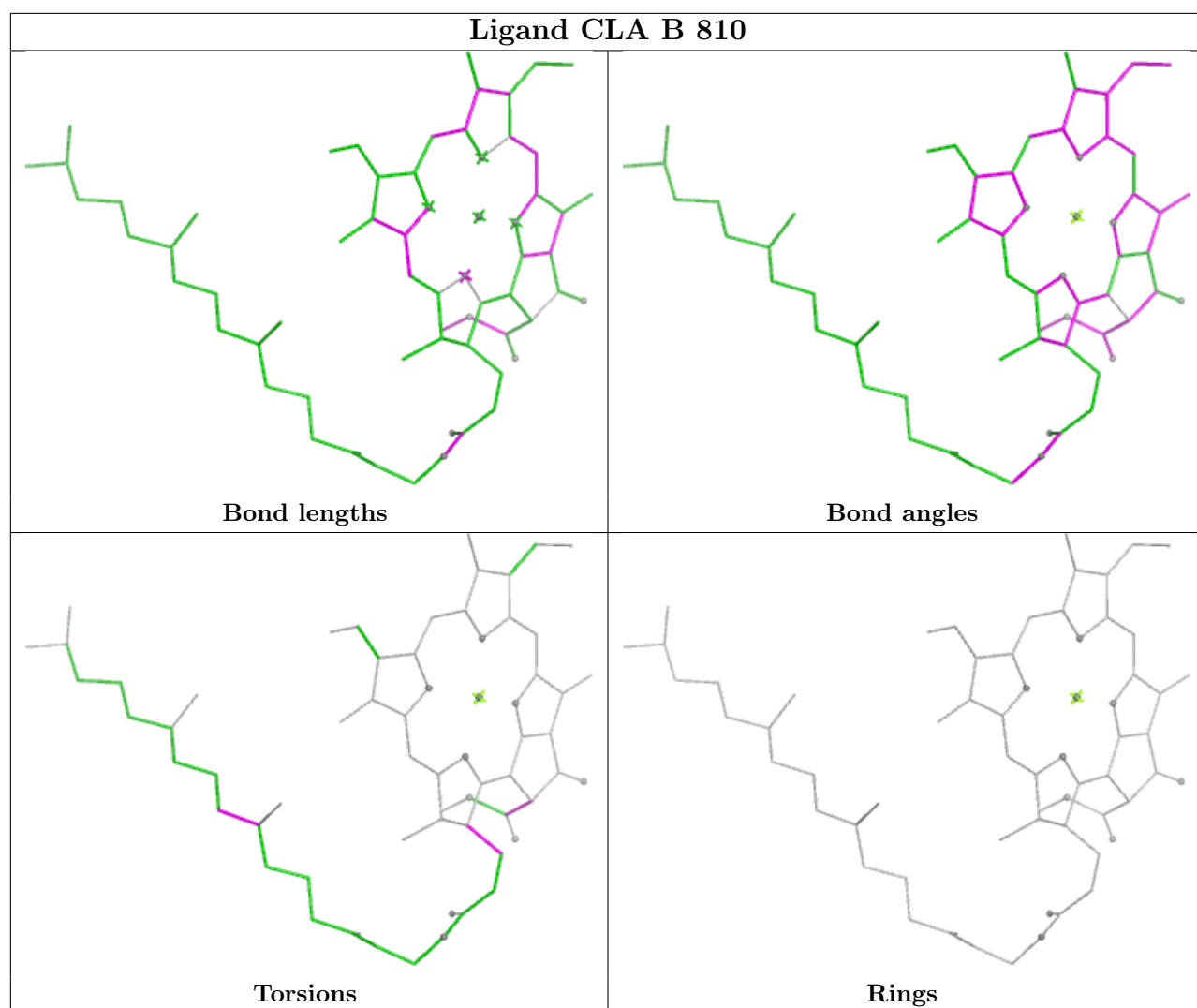


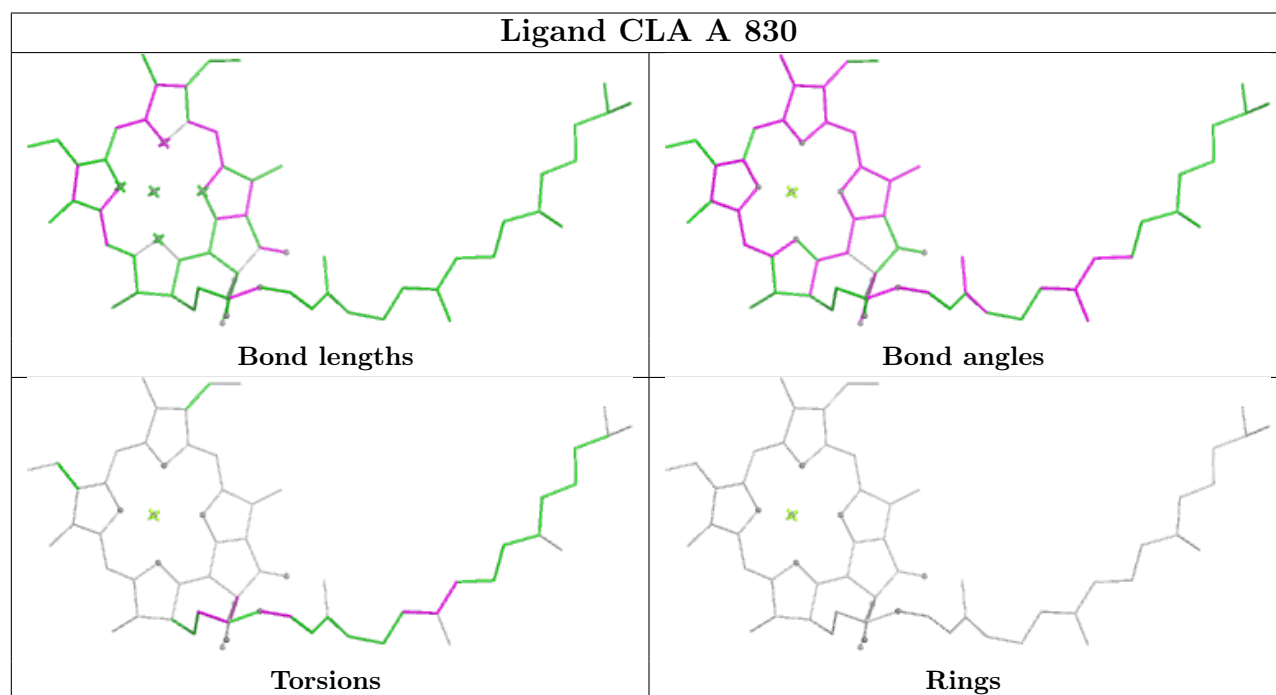
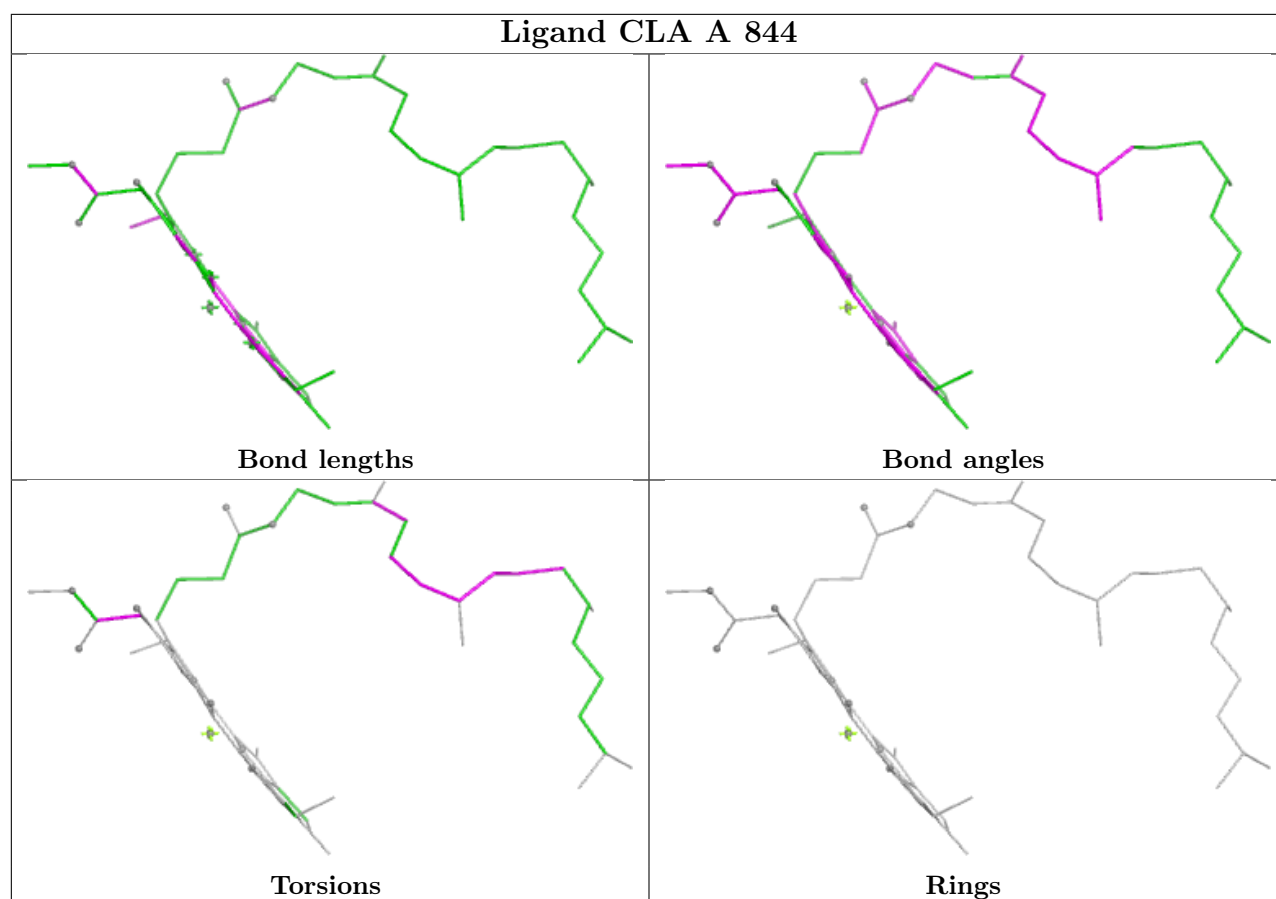


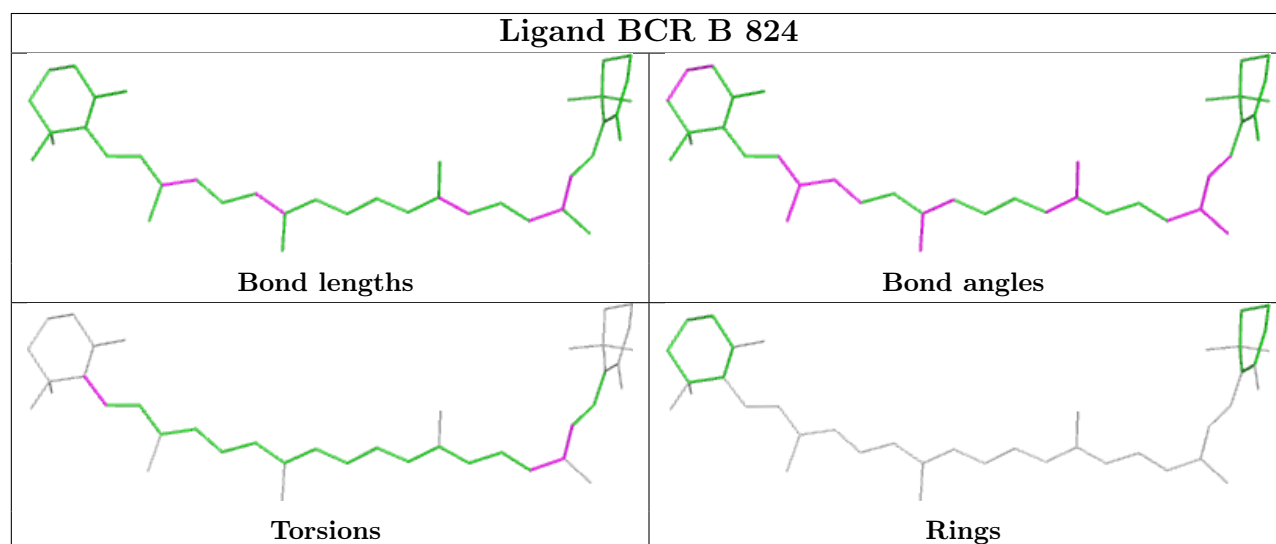
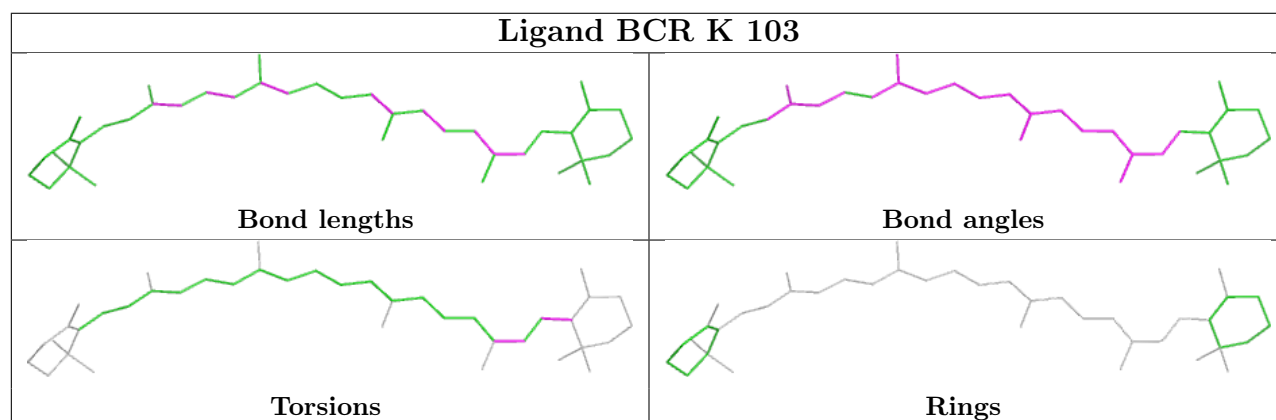
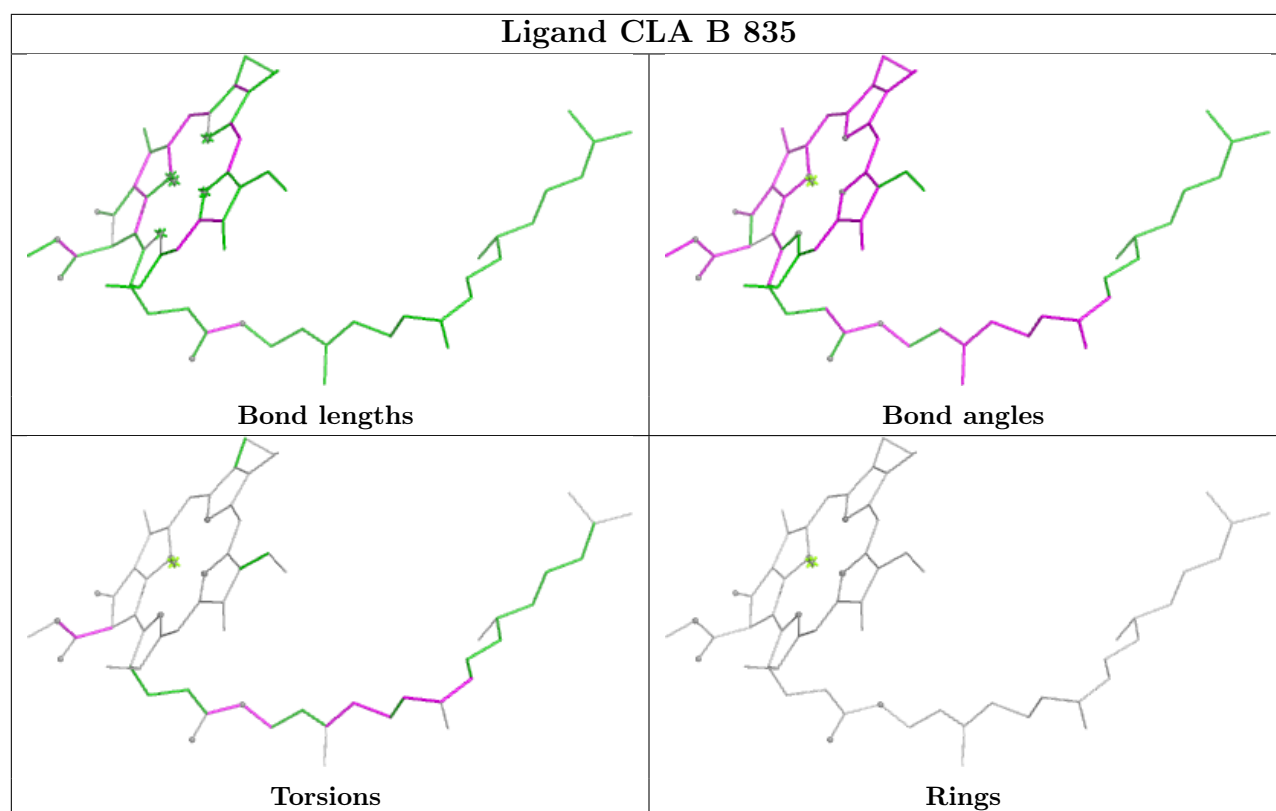


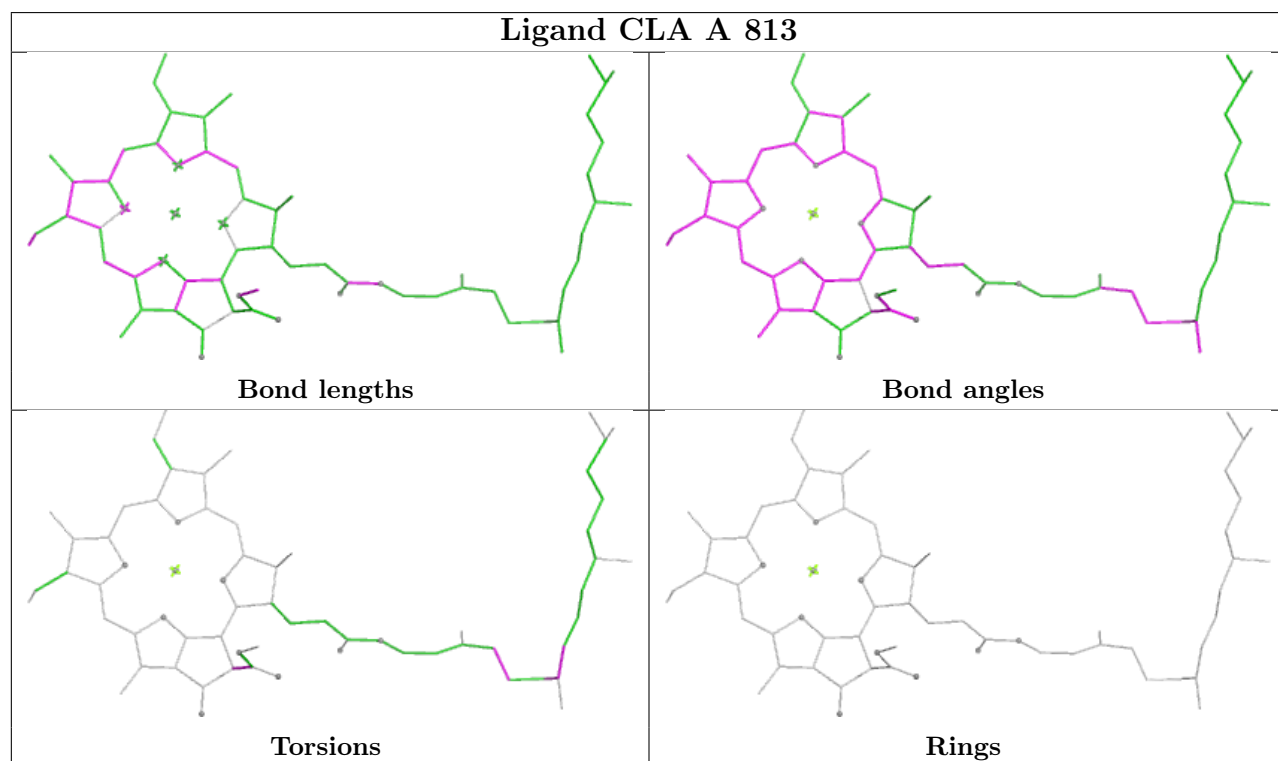
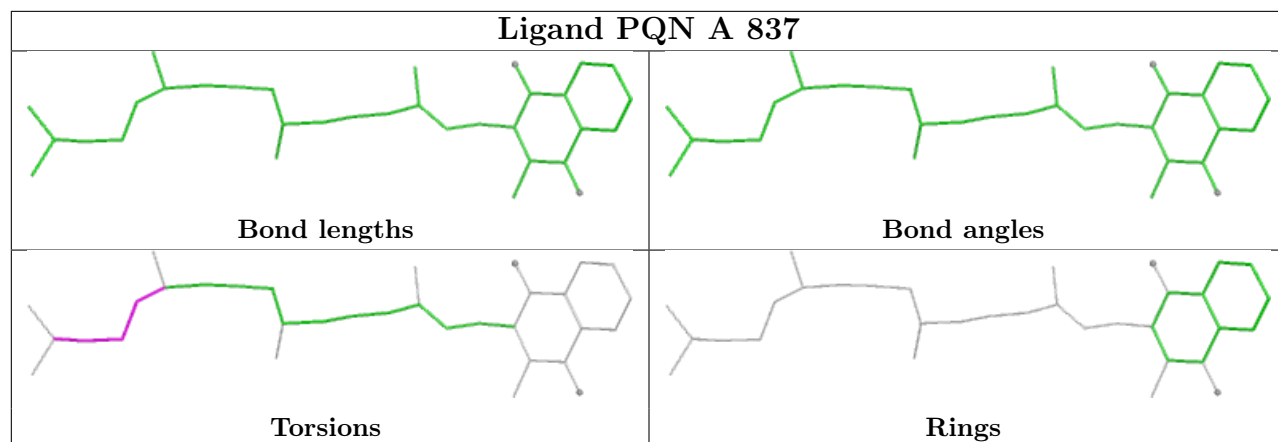


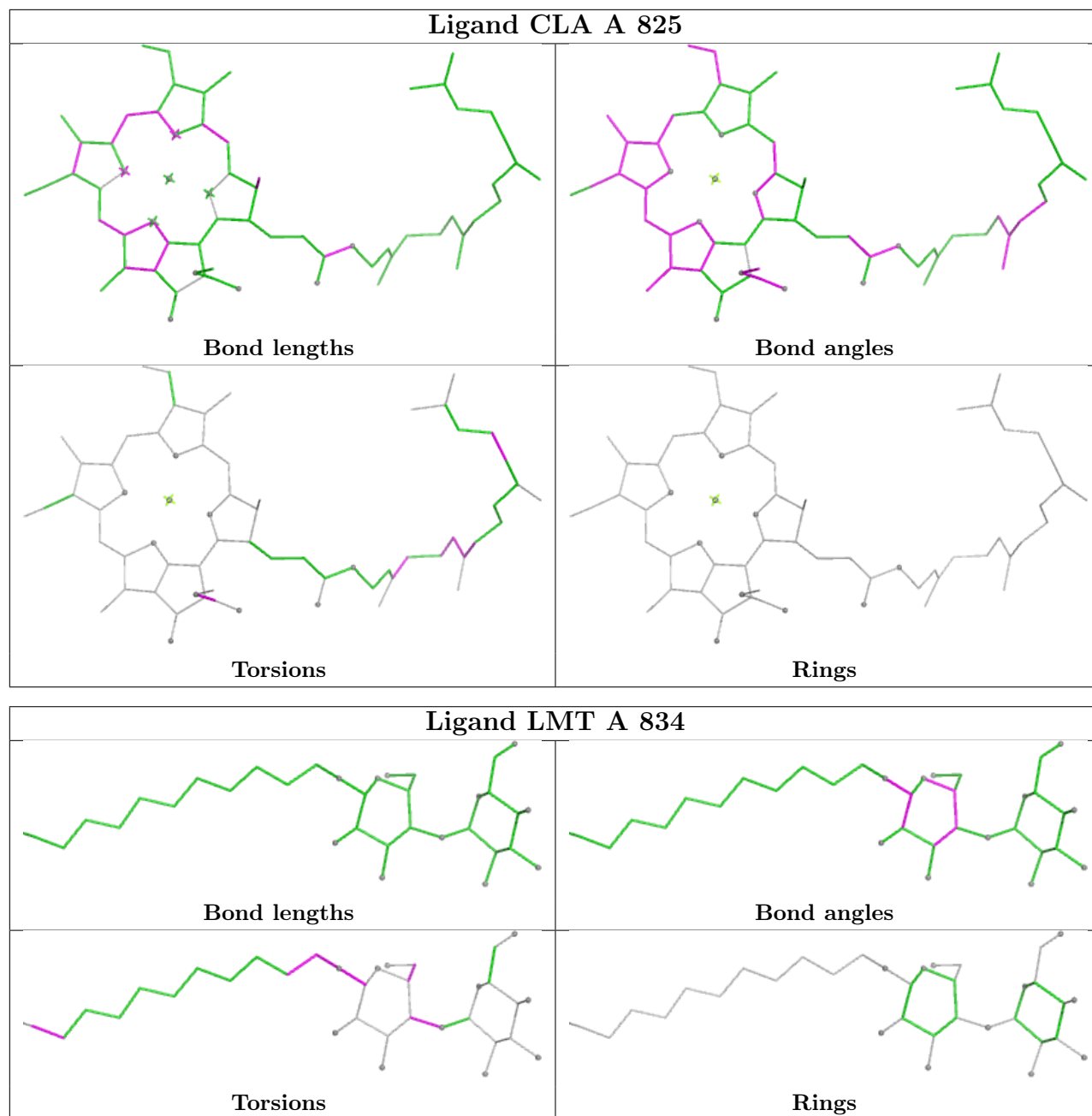




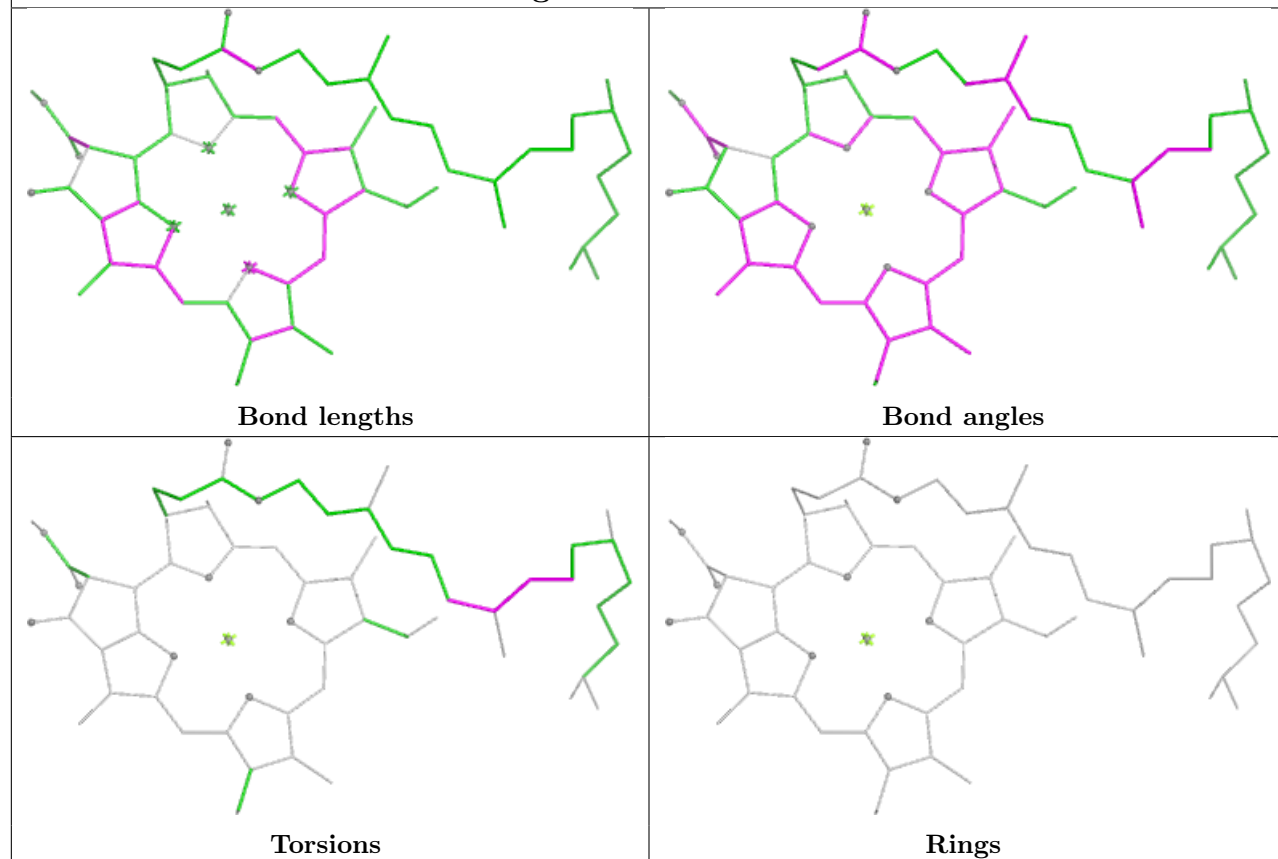




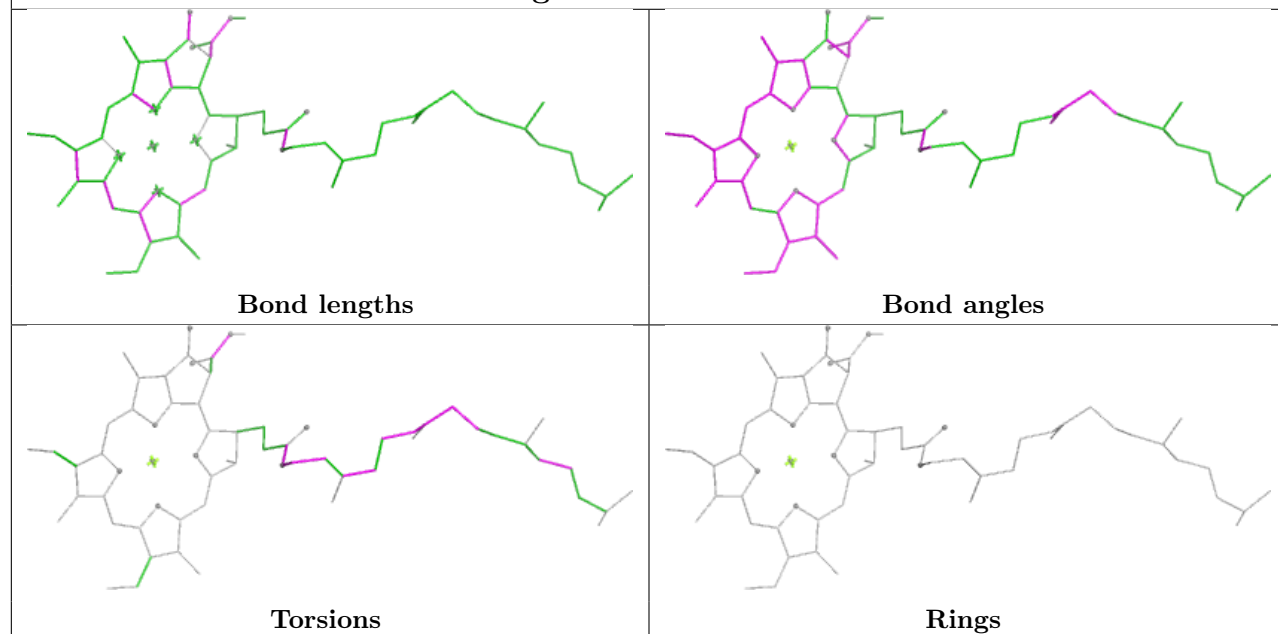


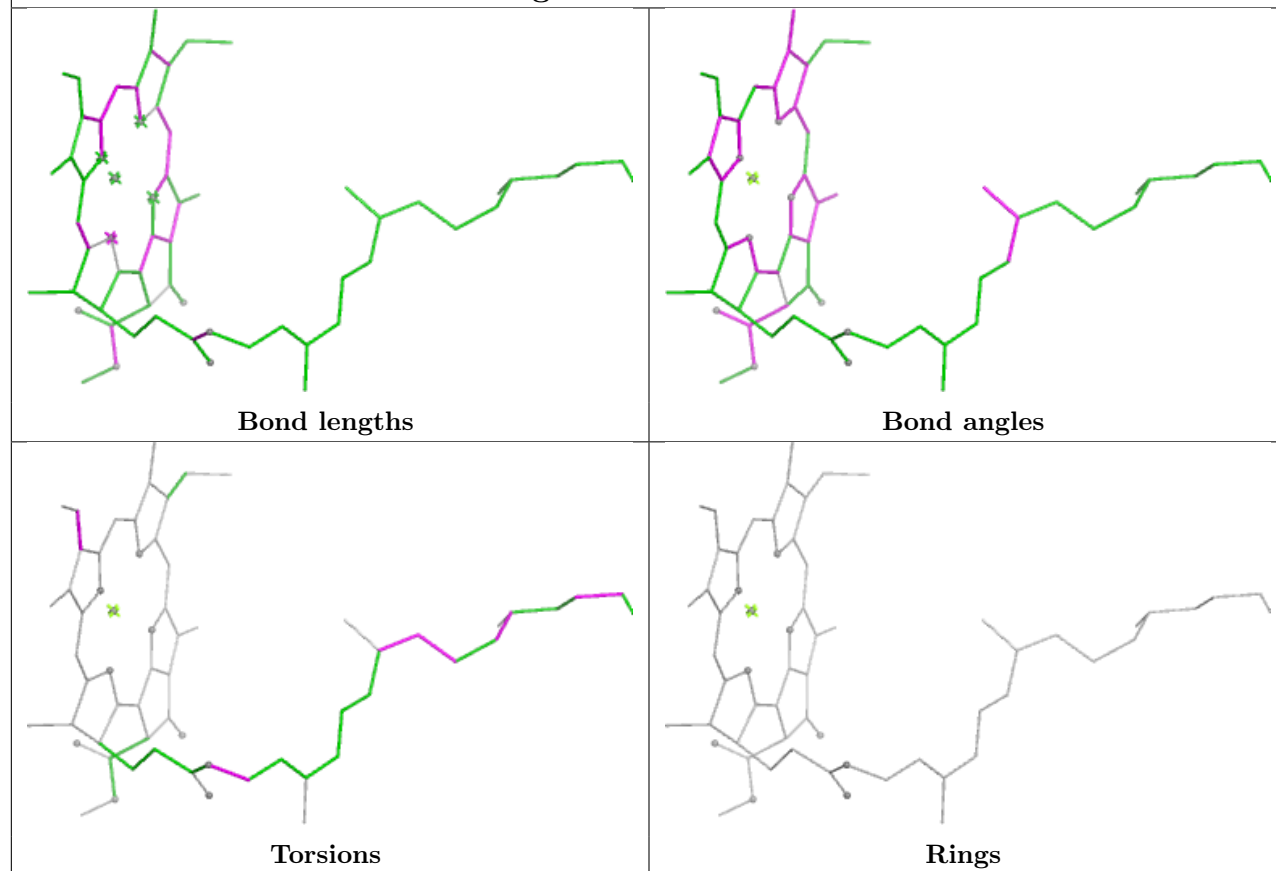
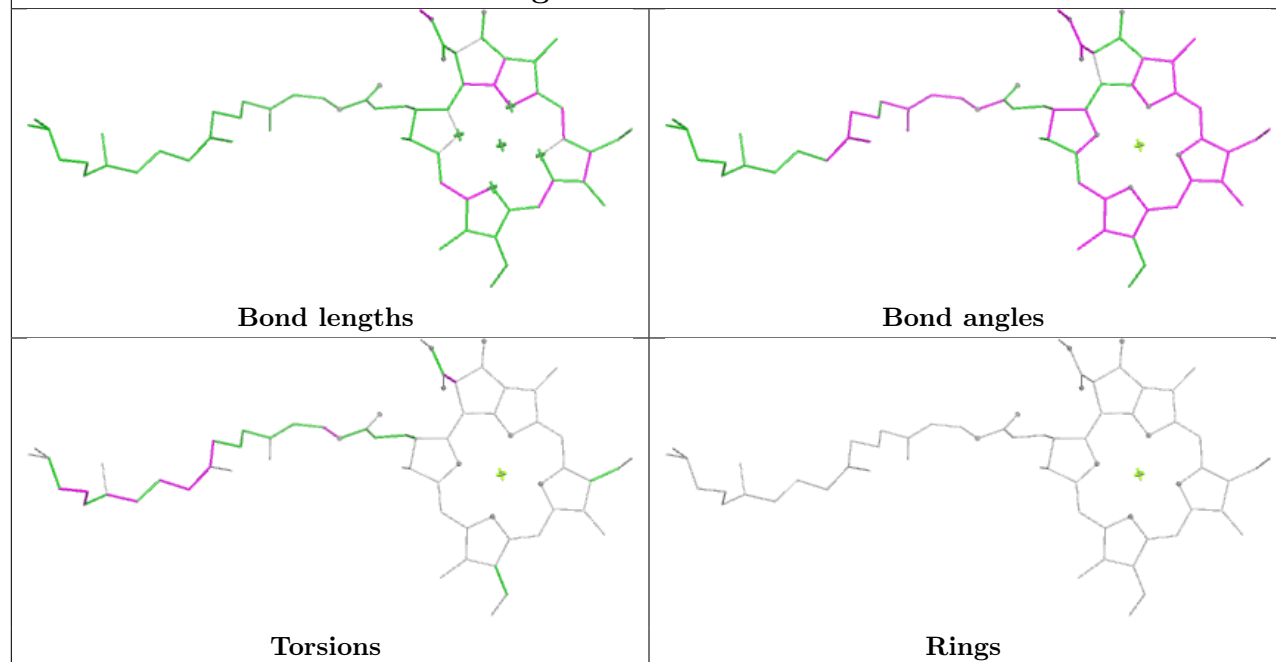


Ligand CLA B 821

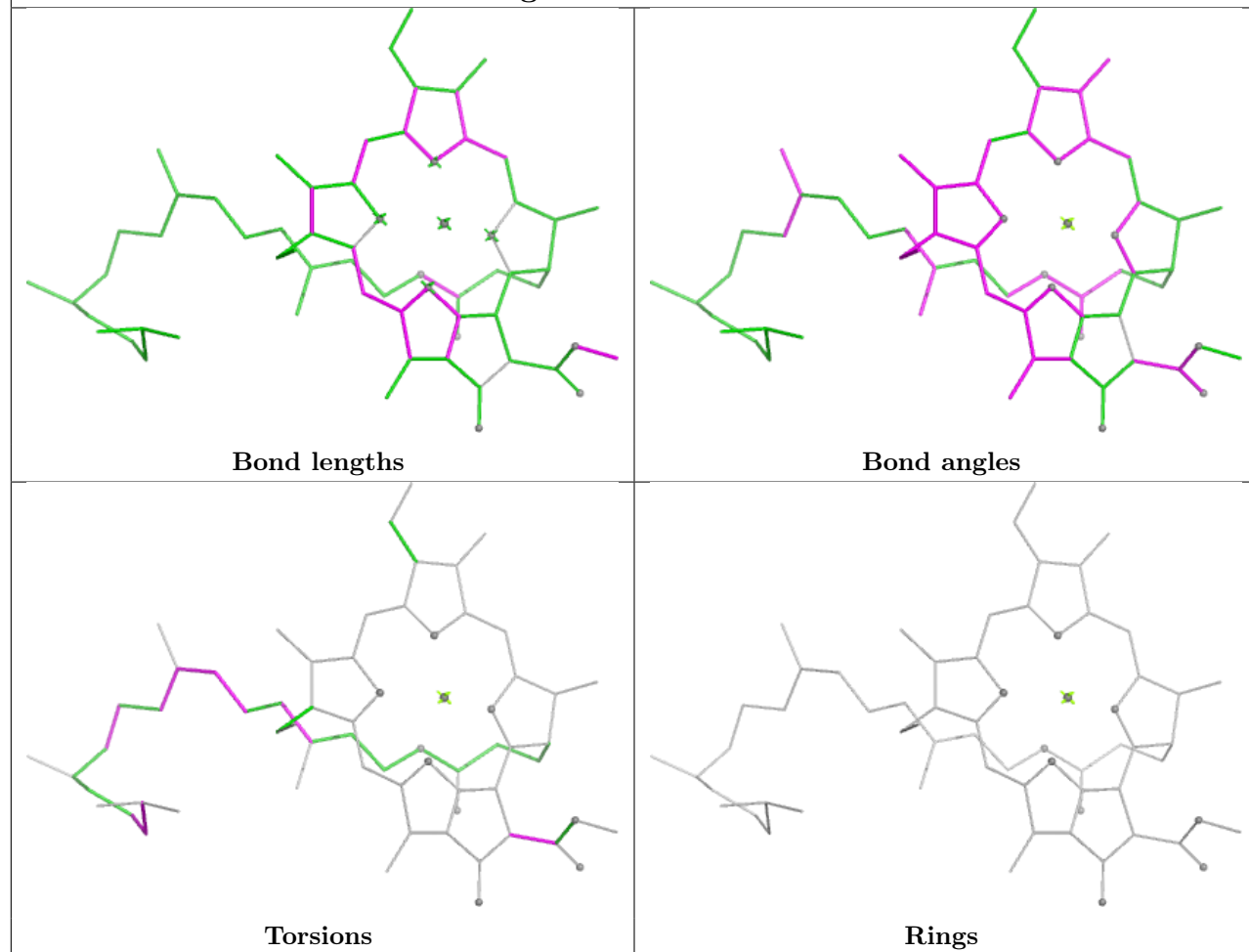


Ligand CLA B 841

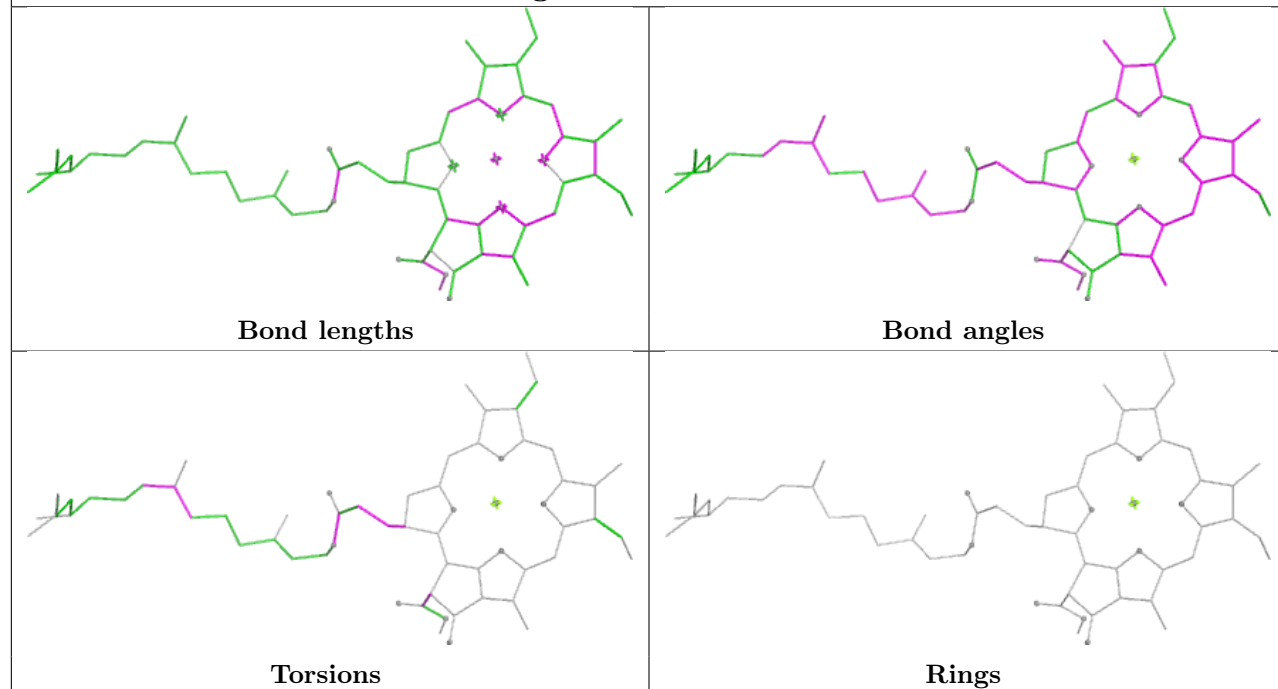


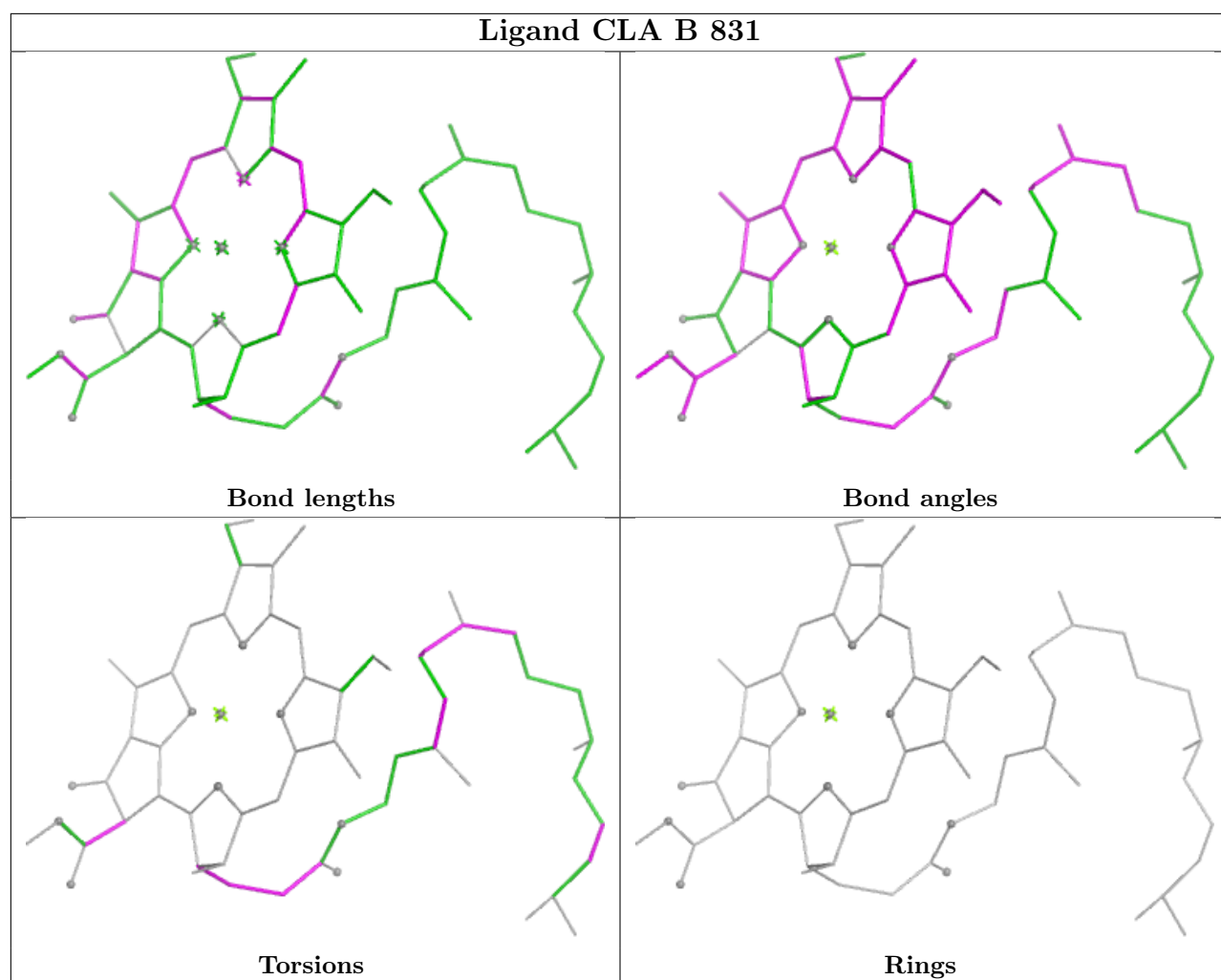
Ligand CLA B 838**Ligand CLA A 806**

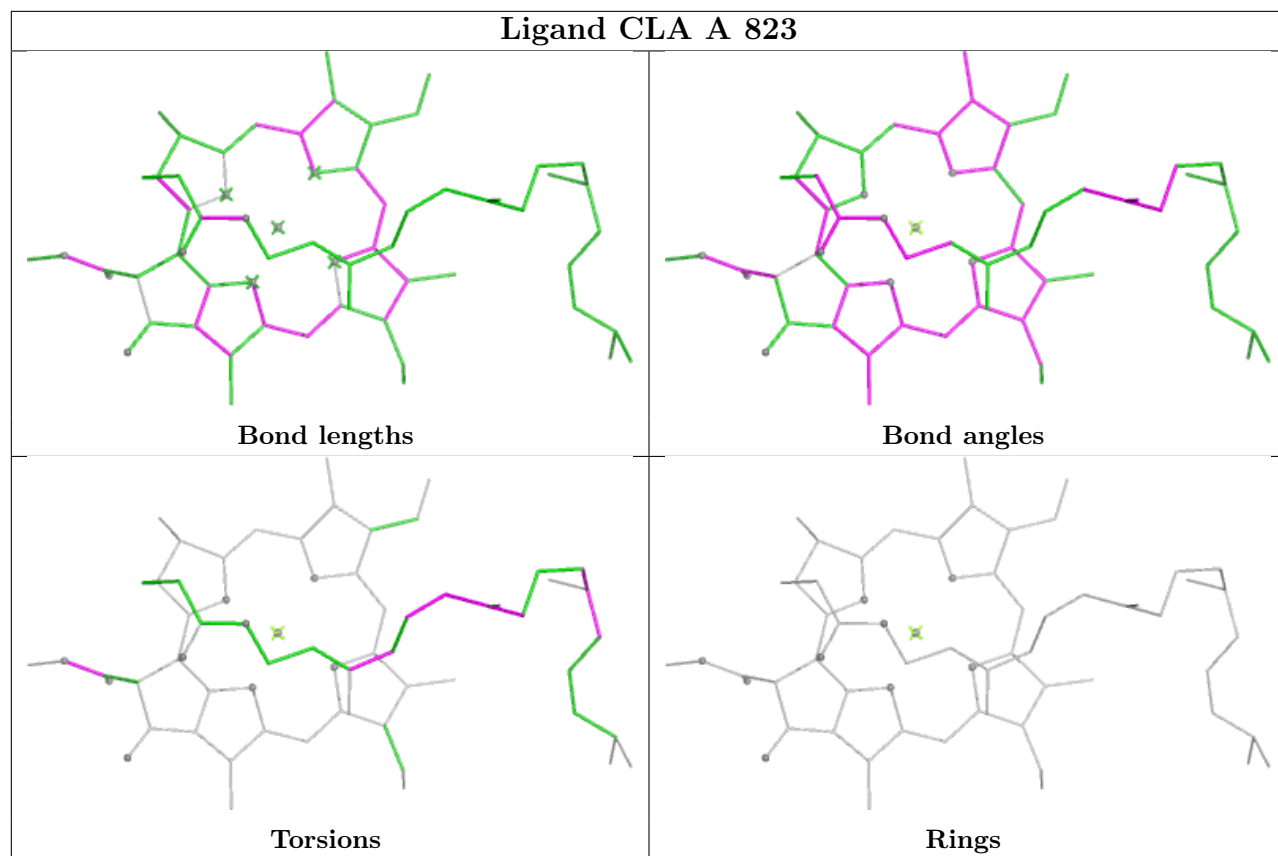
Ligand CLA B 843

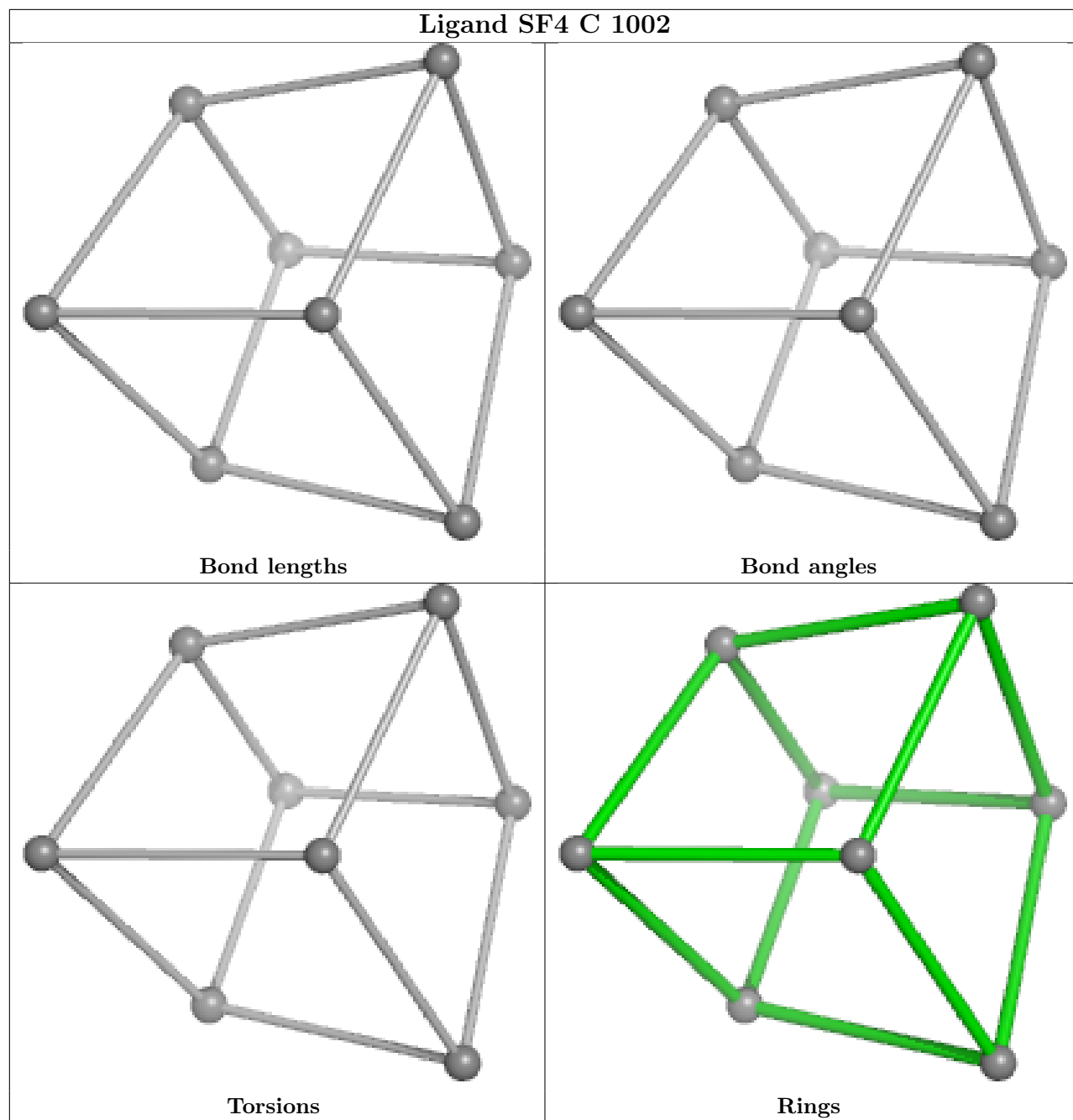


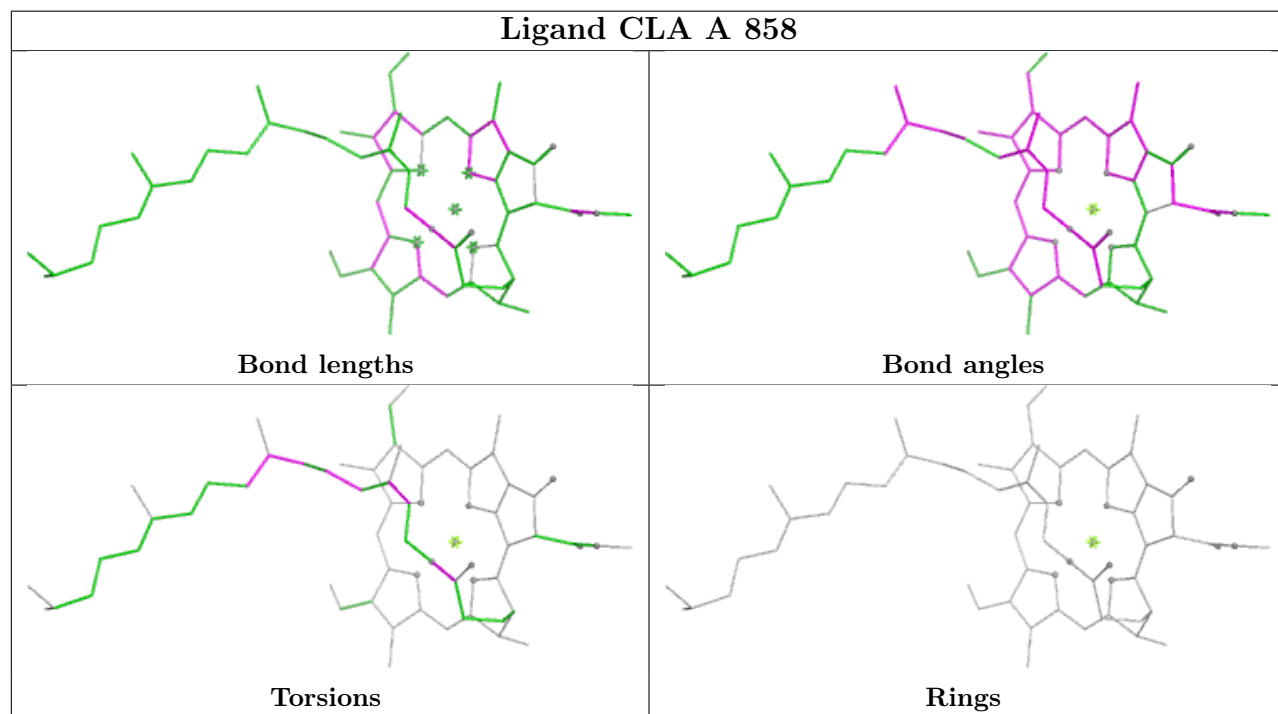
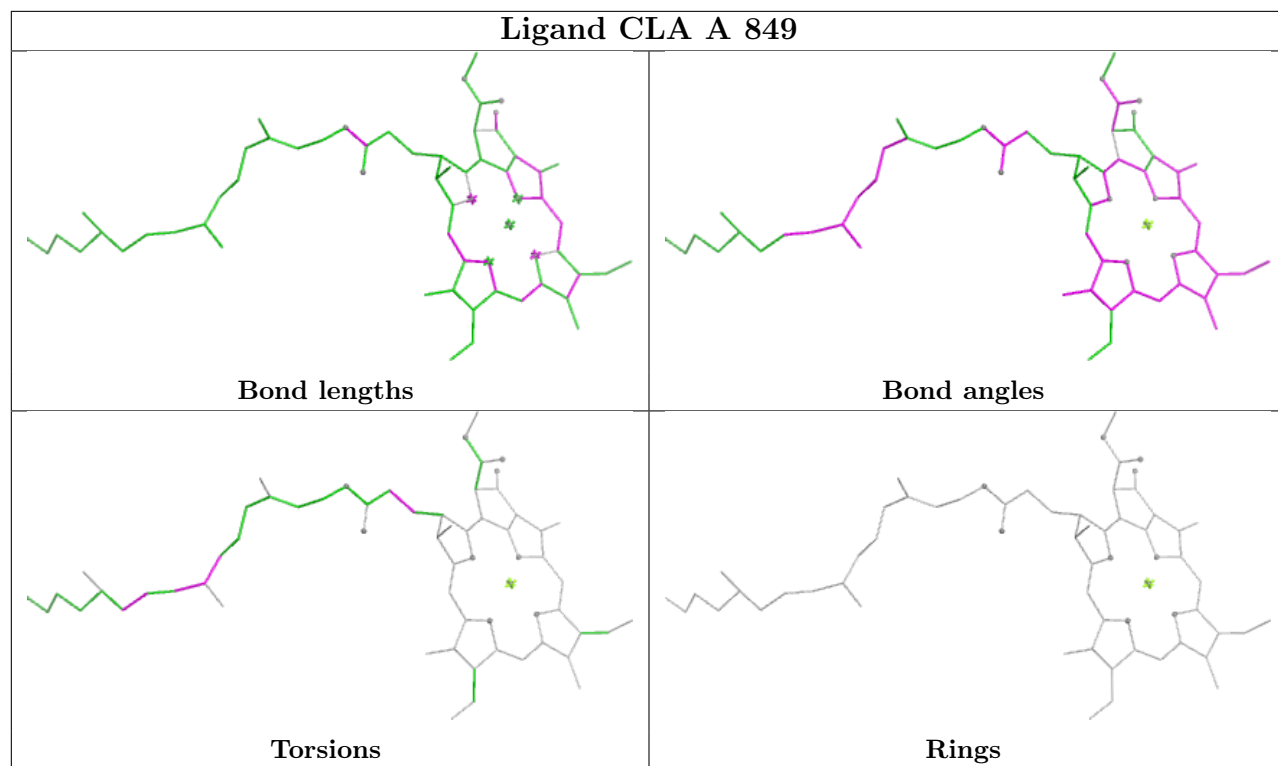
Ligand CLA A 814

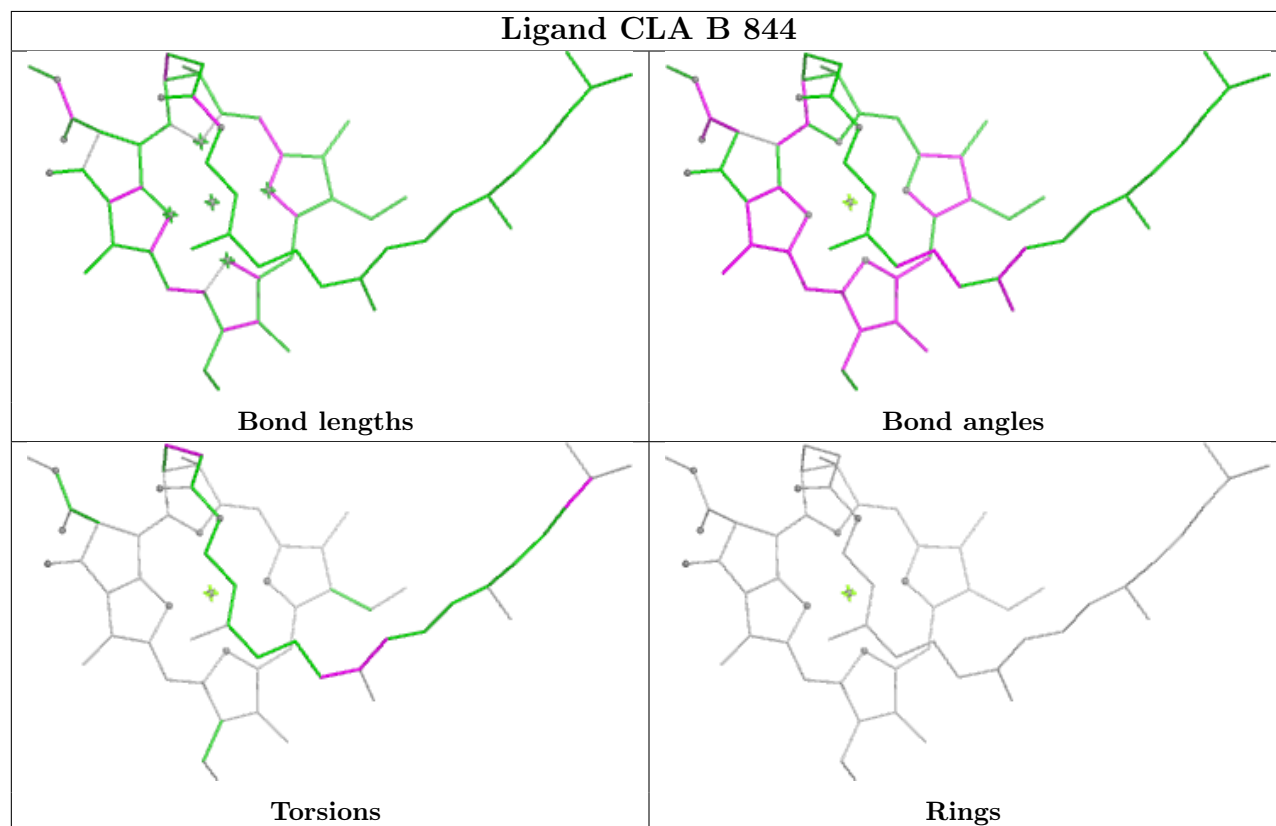
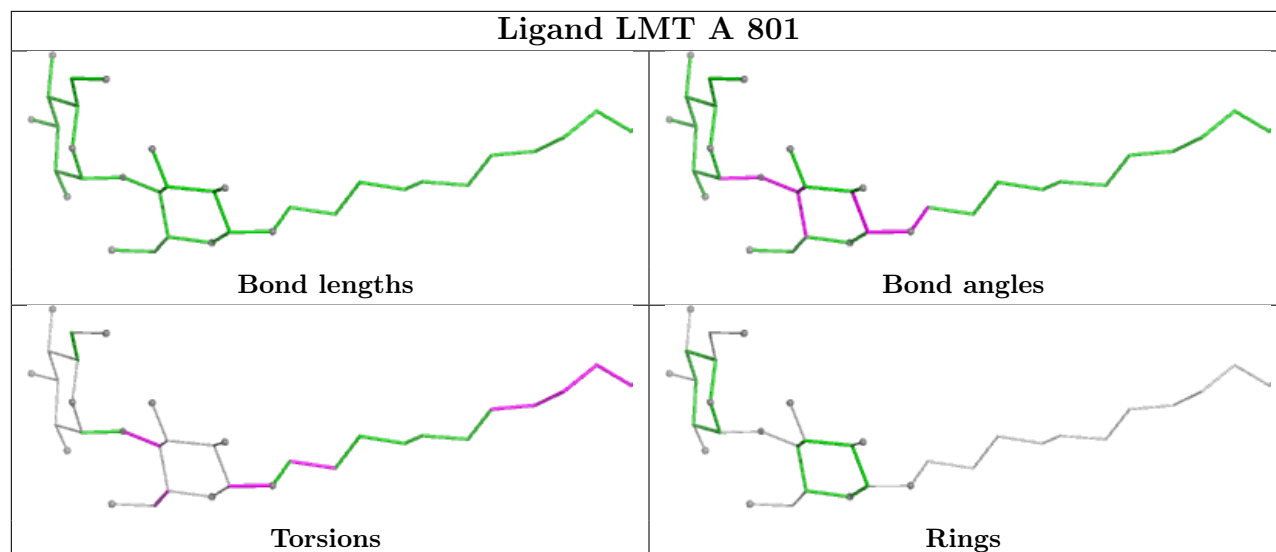


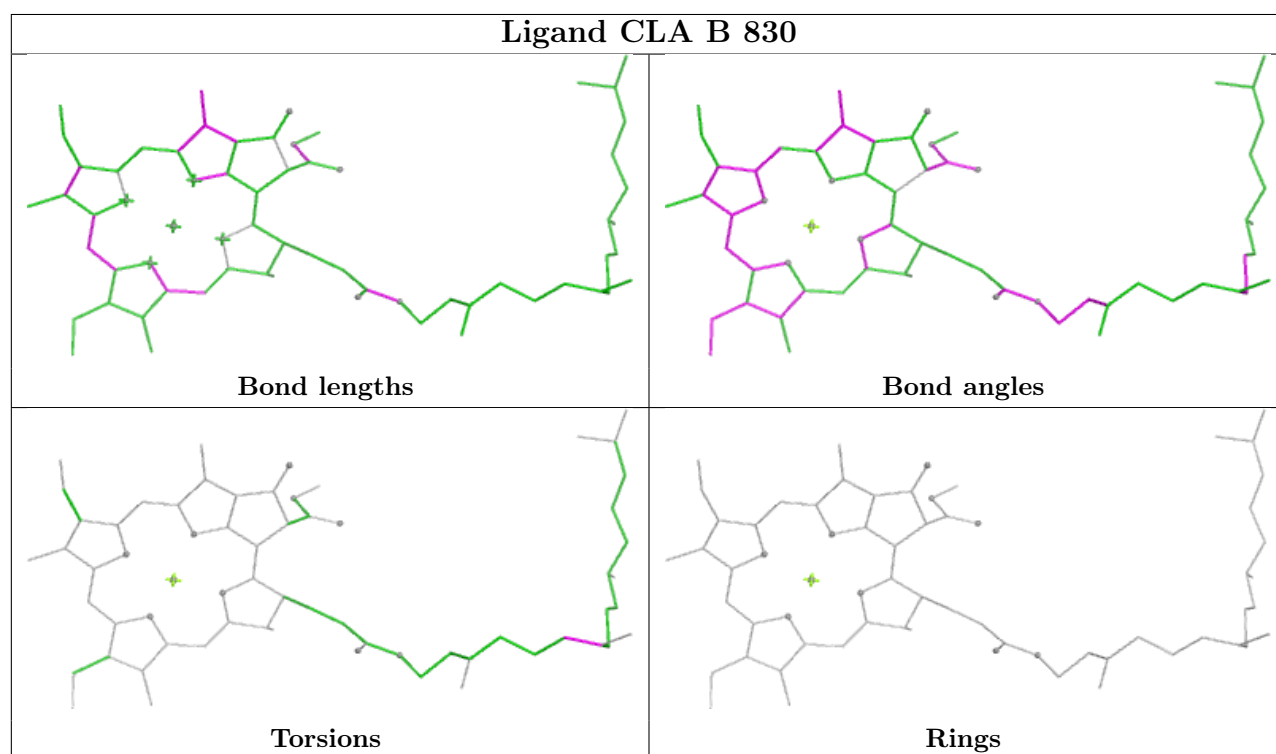
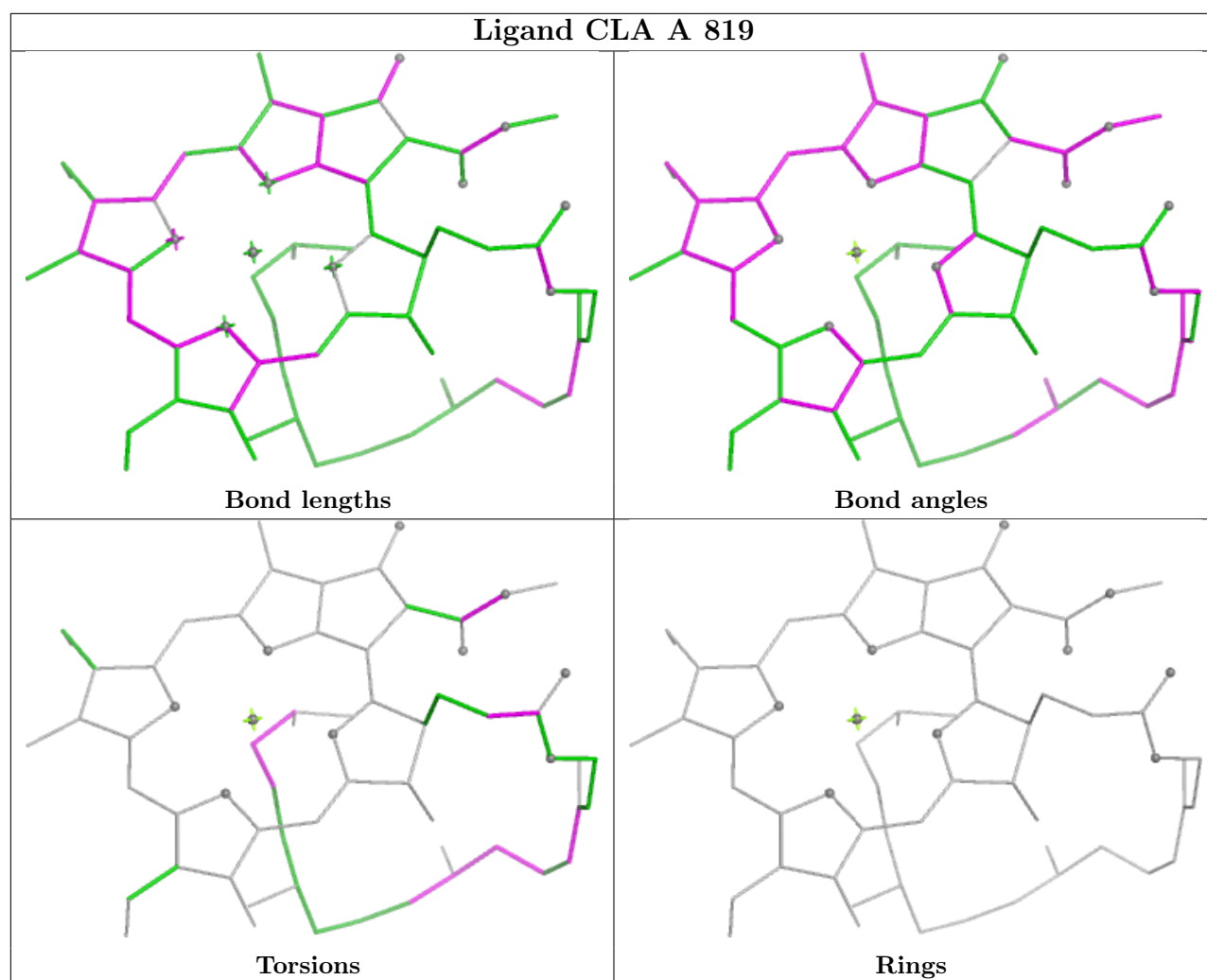


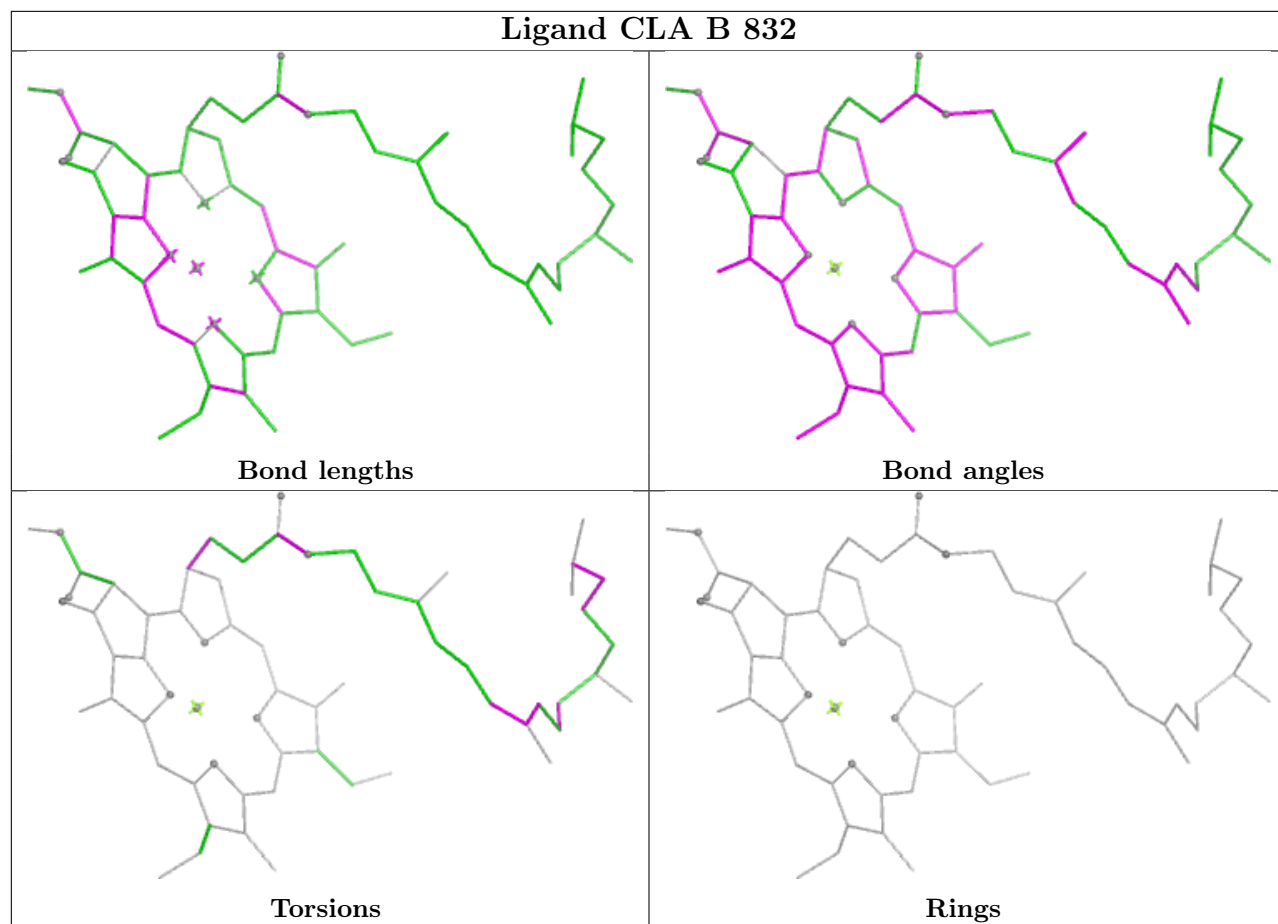




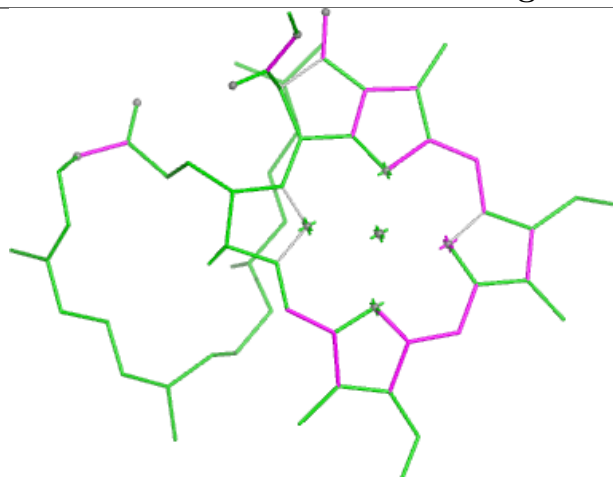




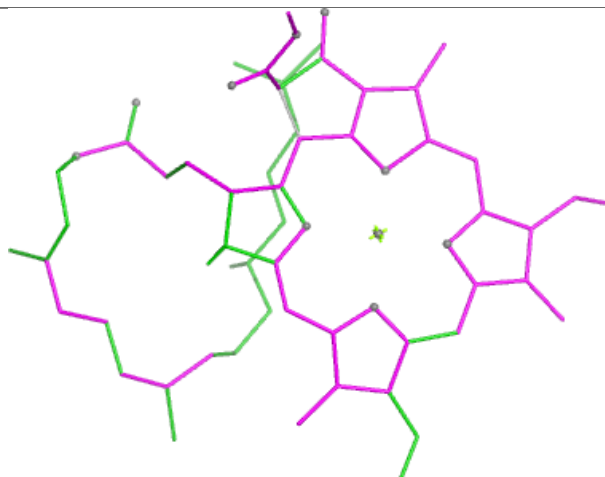




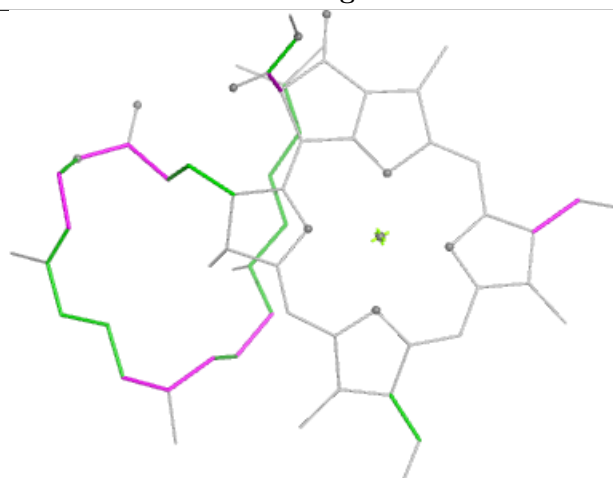
Ligand CLA J 101



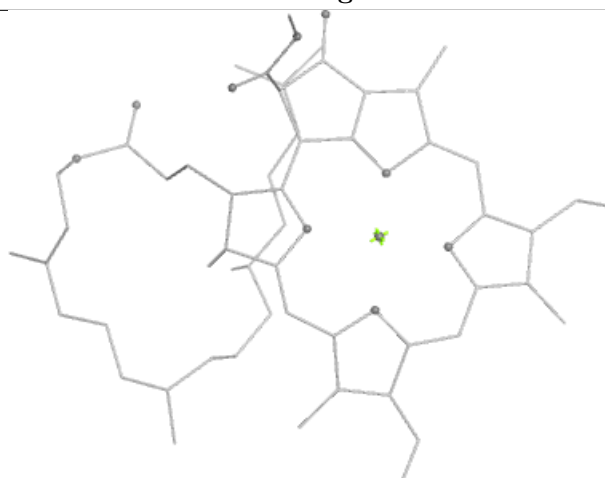
Bond lengths



Bond angles

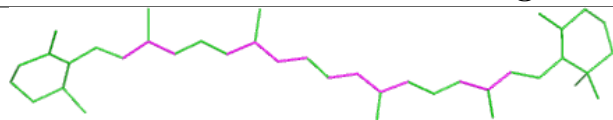


Torsions

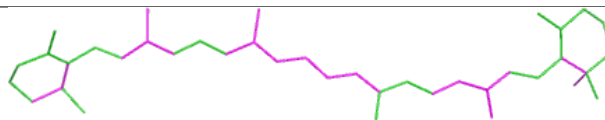


Rings

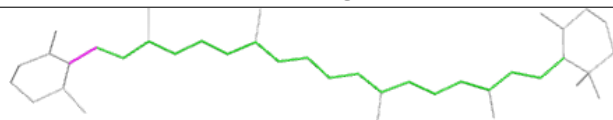
Ligand BCR J 103



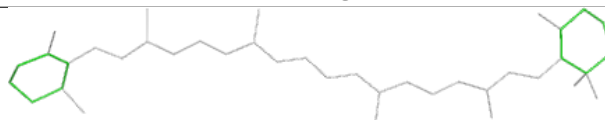
Bond lengths



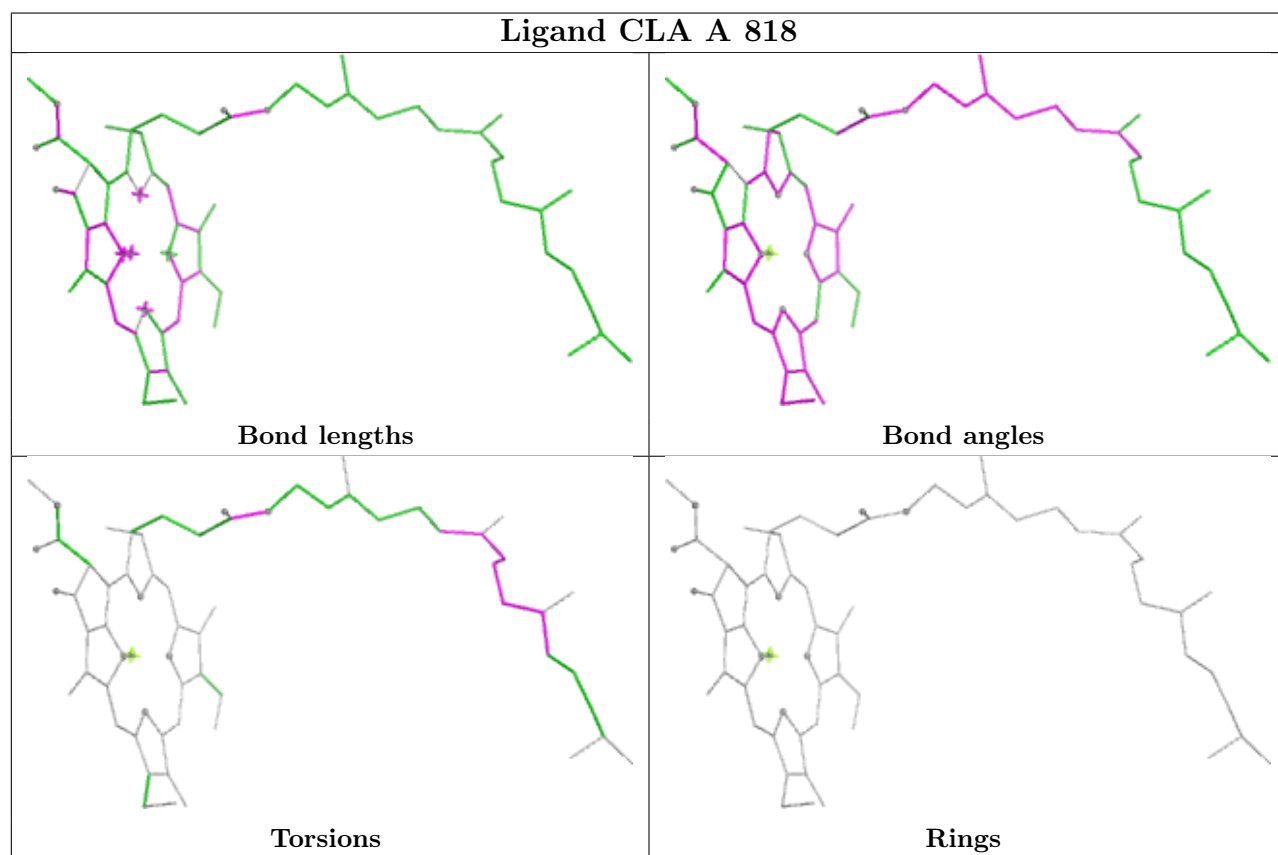
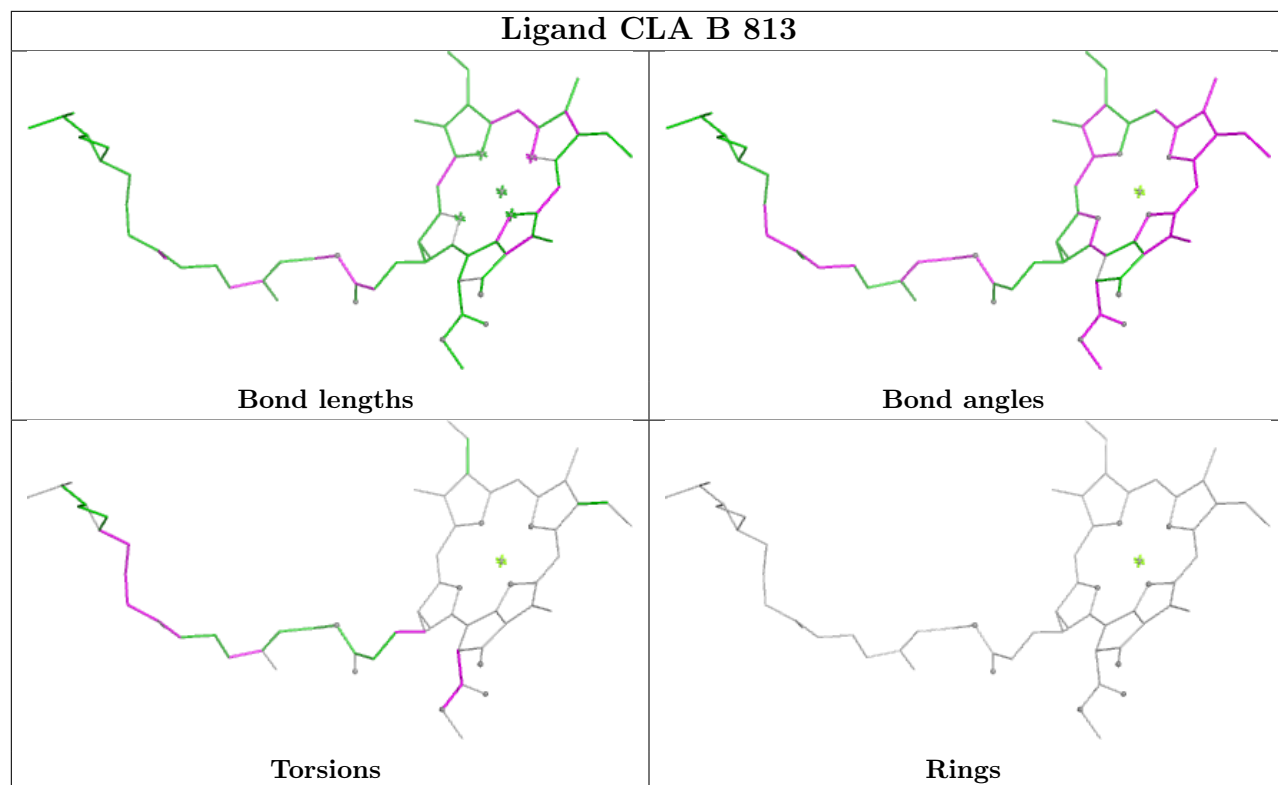
Bond angles

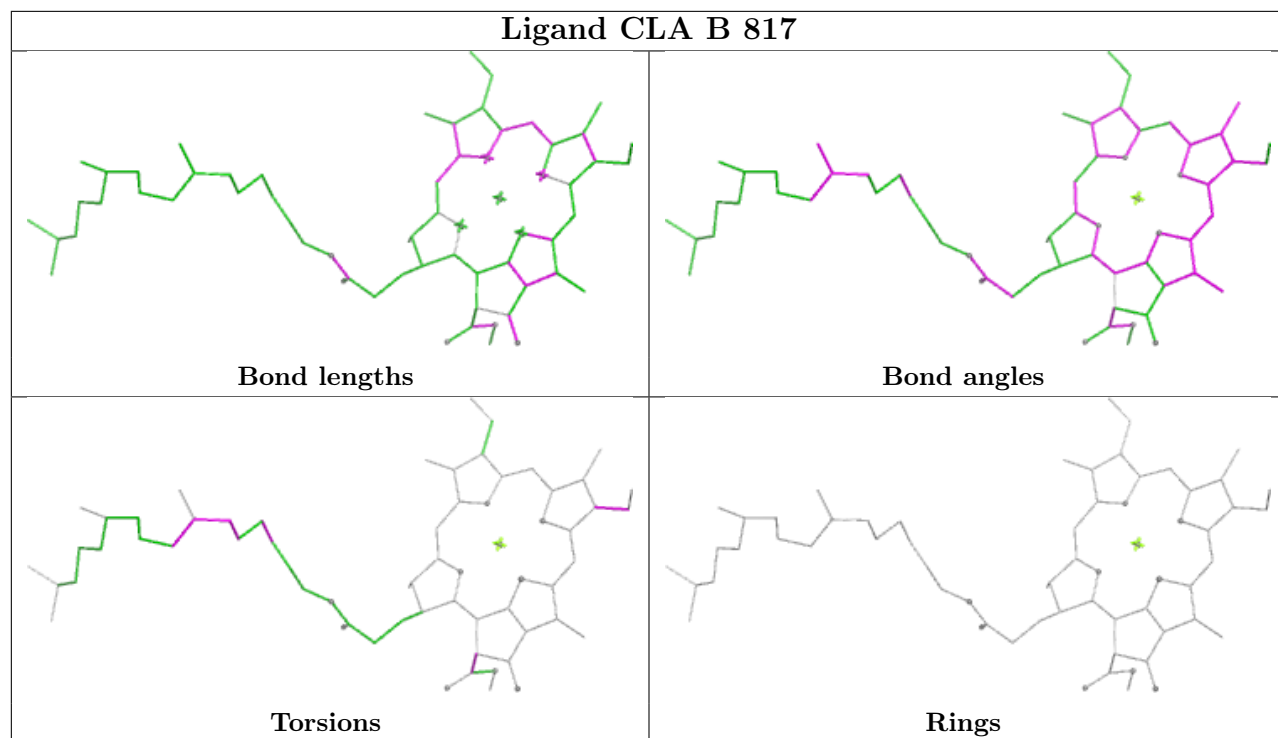


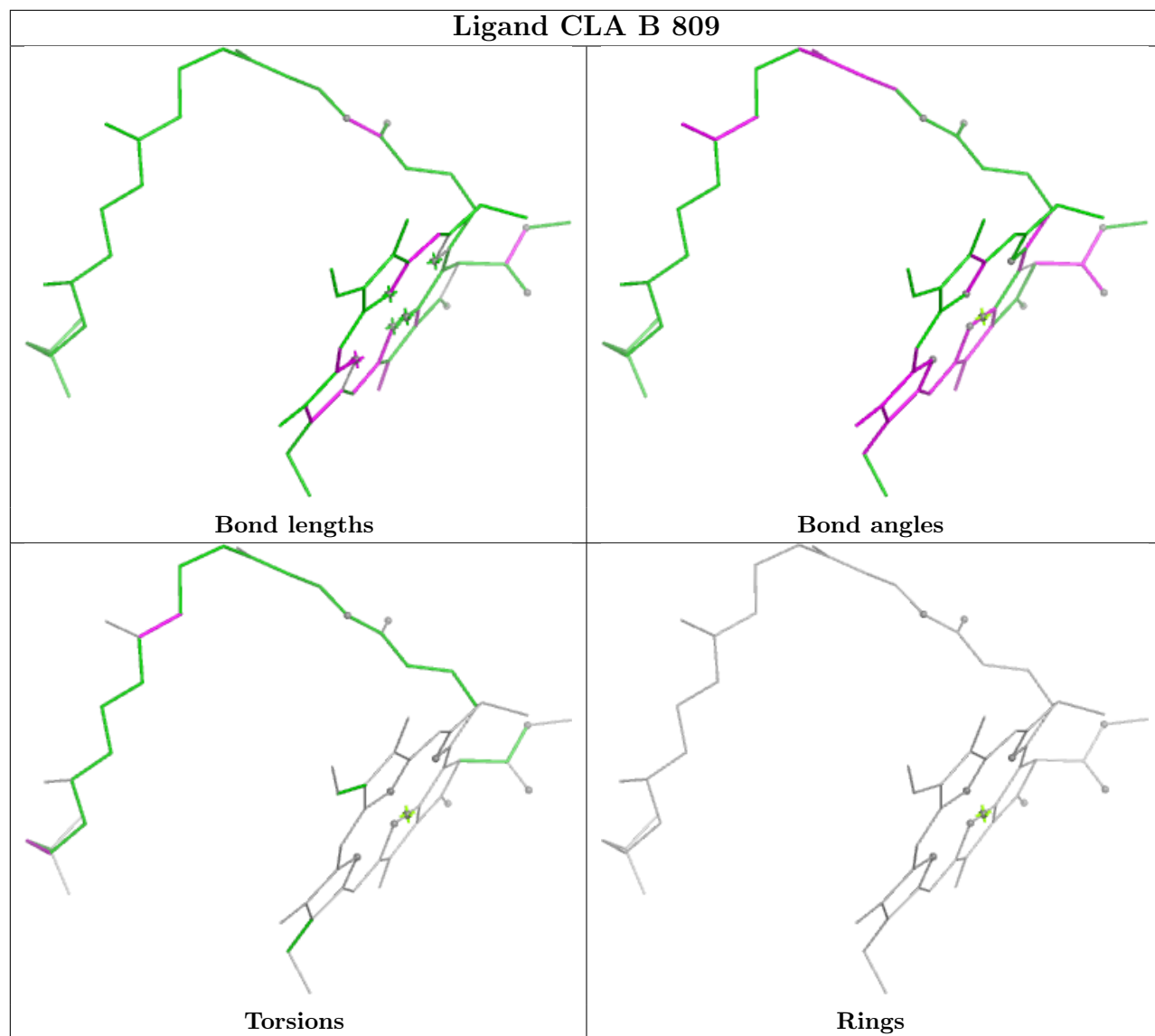
Torsions

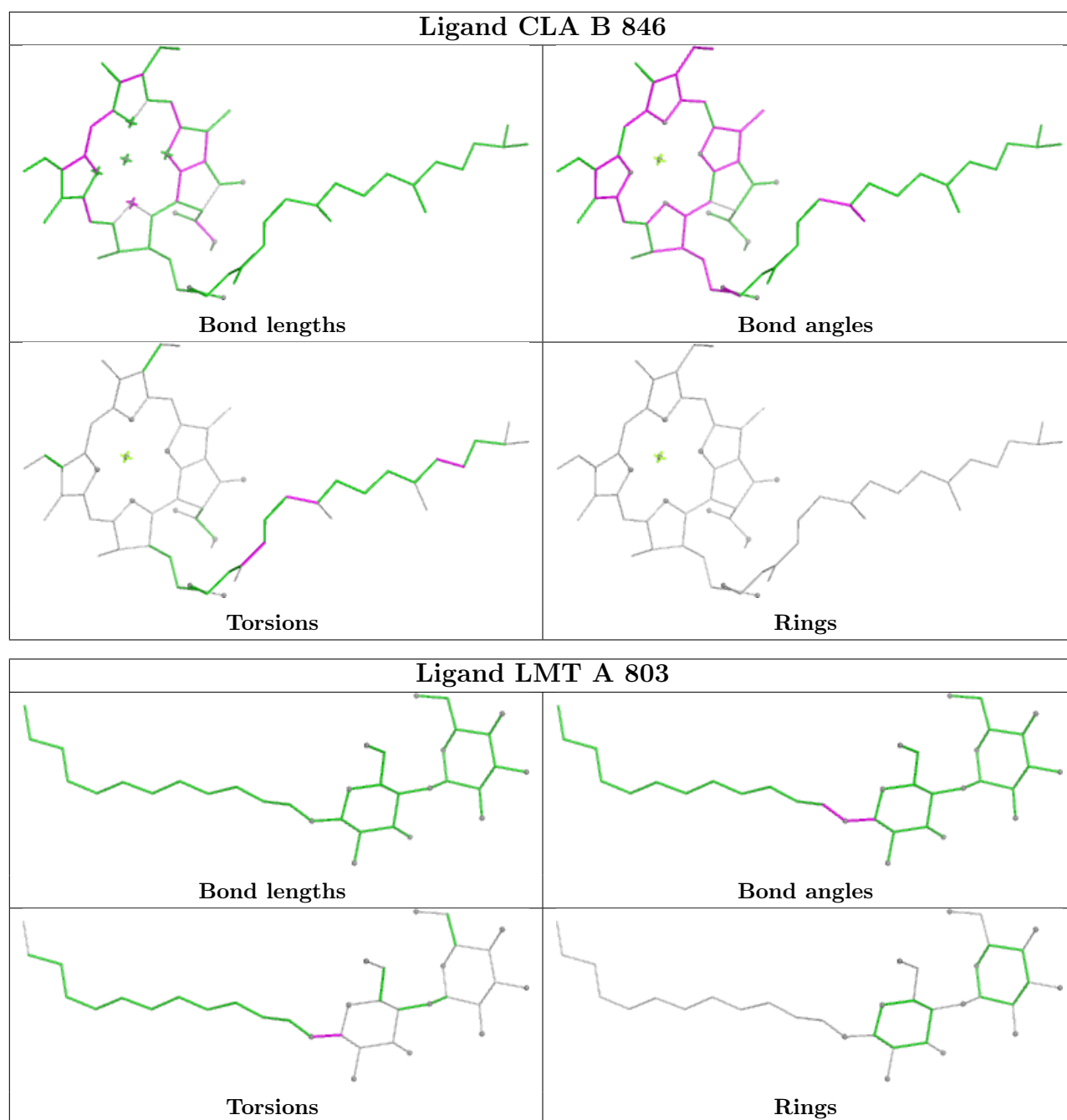


Rings









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

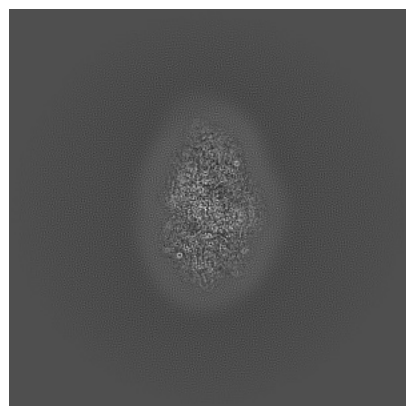
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-53120. These allow visual inspection of the internal detail of the map and identification of artifacts.

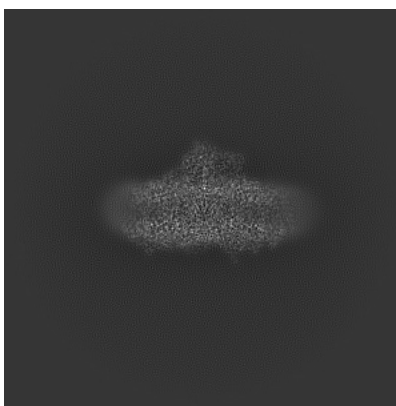
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

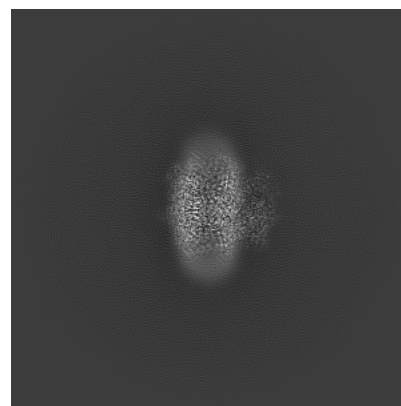
6.1.1 Primary map



X

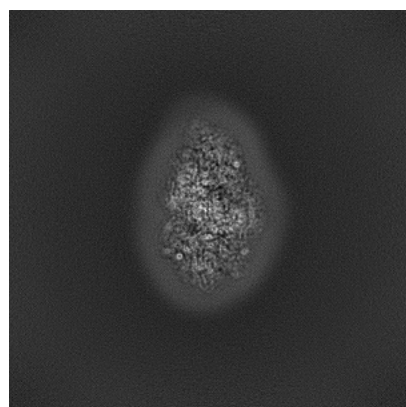


Y

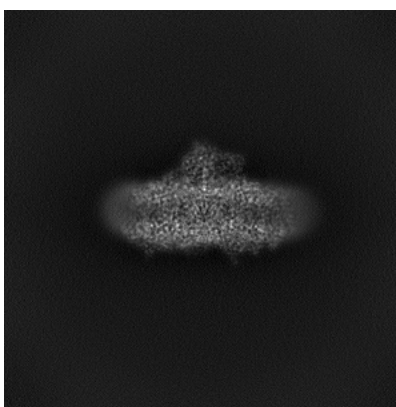


Z

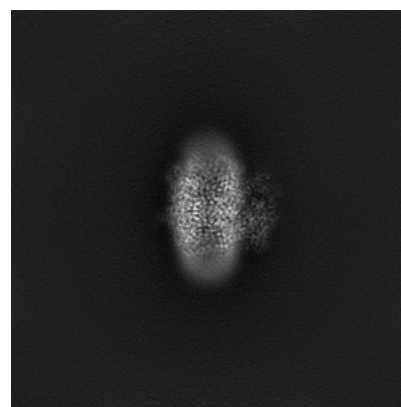
6.1.2 Raw map



X



Y

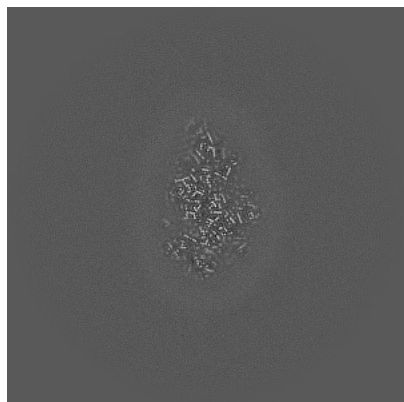


Z

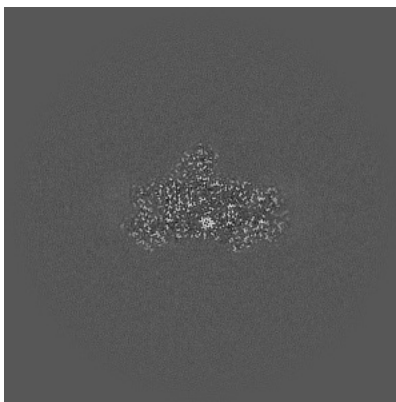
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

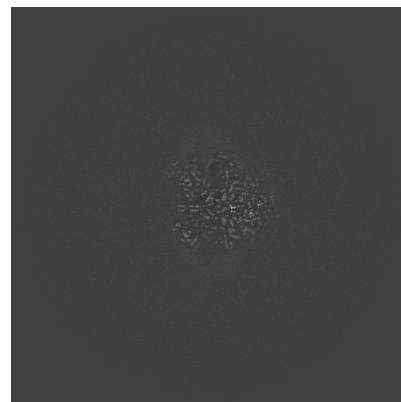
6.2.1 Primary map



X Index: 256

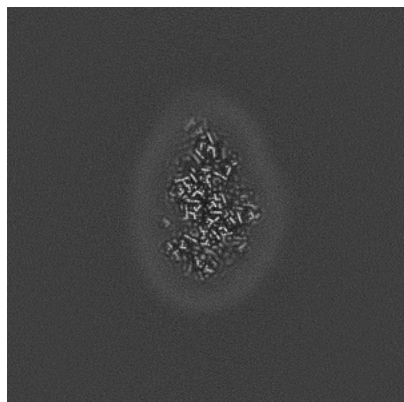


Y Index: 256

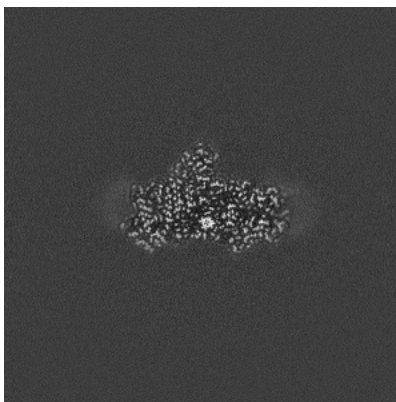


Z Index: 256

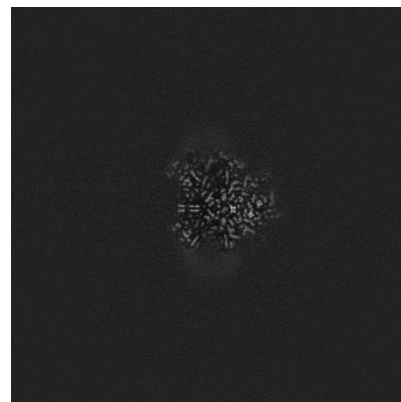
6.2.2 Raw map



X Index: 256



Y Index: 256

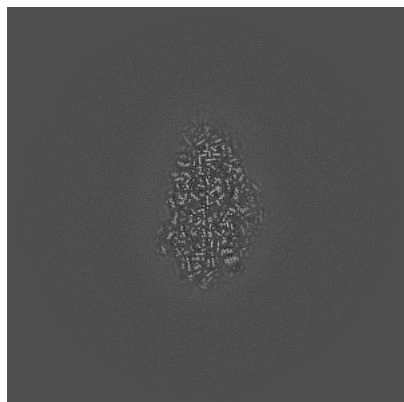


Z Index: 256

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

6.3 Largest variance slices [i](#)

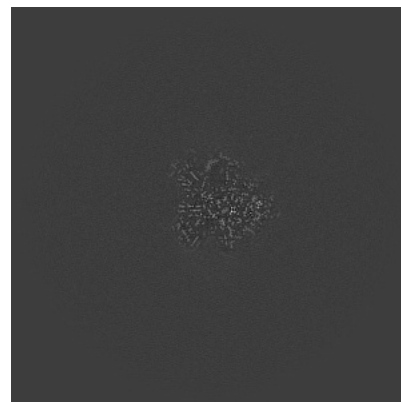
6.3.1 Primary map



X Index: 235

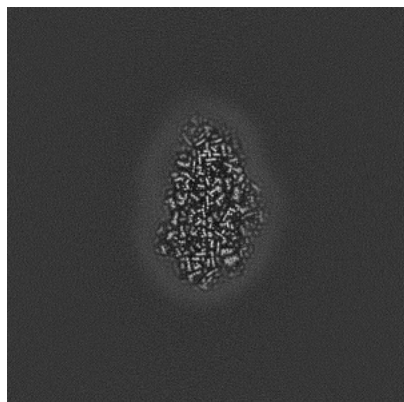


Y Index: 252

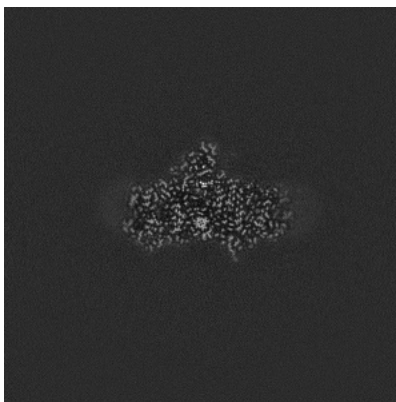


Z Index: 257

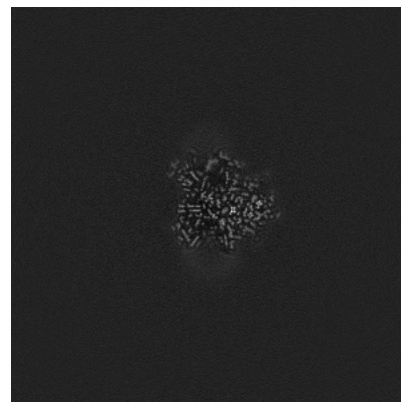
6.3.2 Raw map



X Index: 235



Y Index: 251

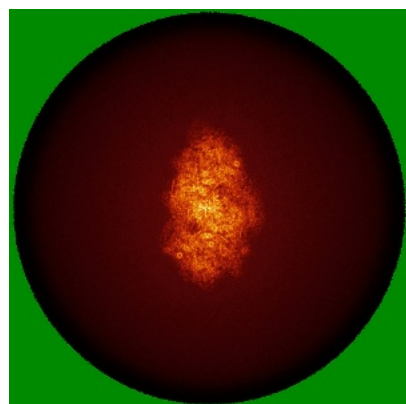


Z Index: 257

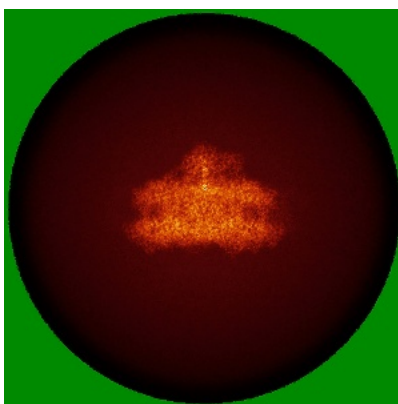
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

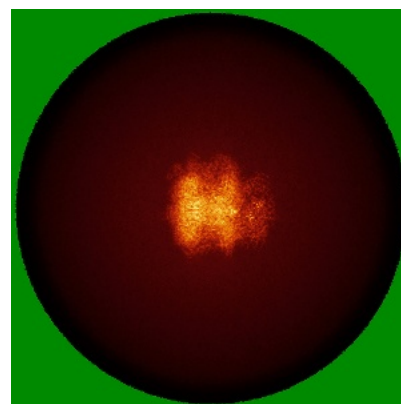
6.4.1 Primary map



X

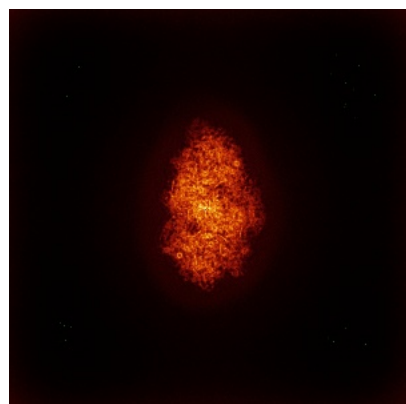


Y

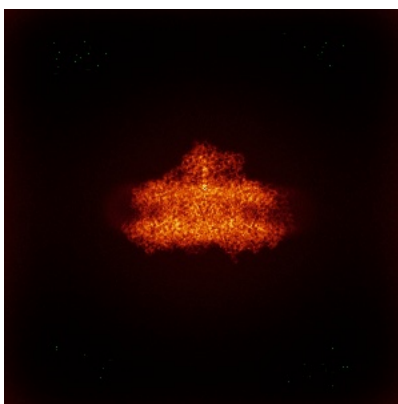


Z

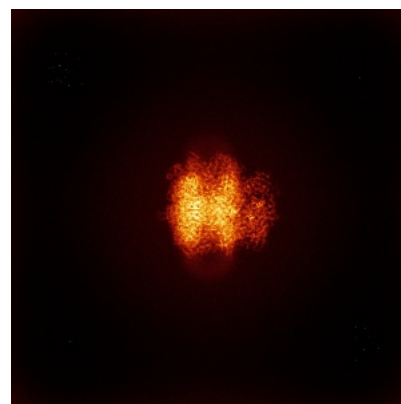
6.4.2 Raw map



X



Y

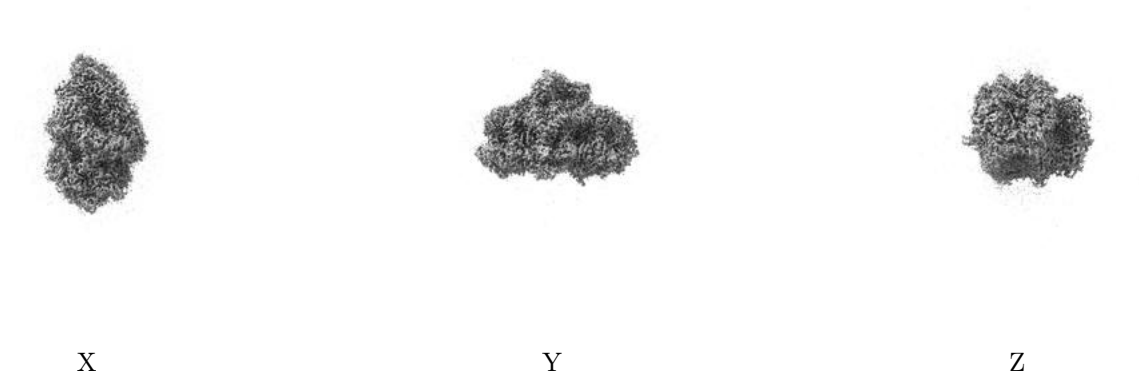


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

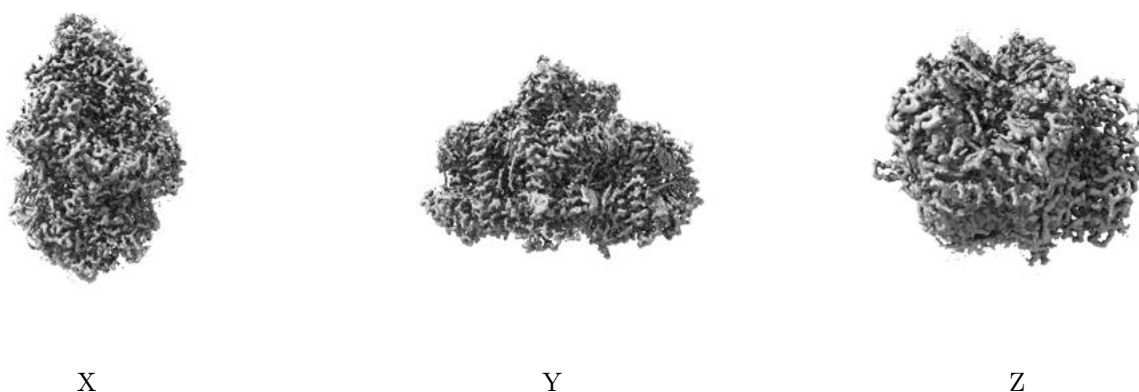
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.08. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

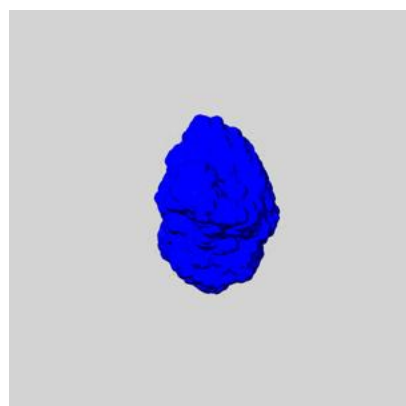
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

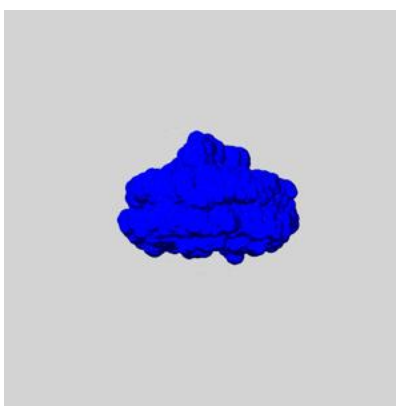
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

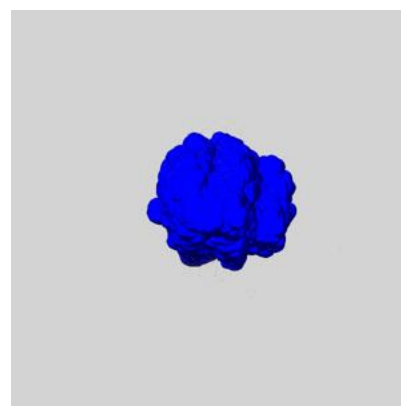
6.6.1 emd_53120_msk_1.map [i](#)



X

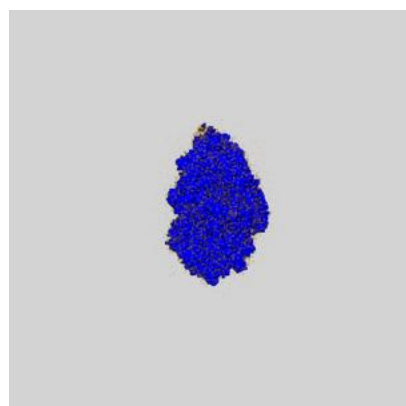


Y

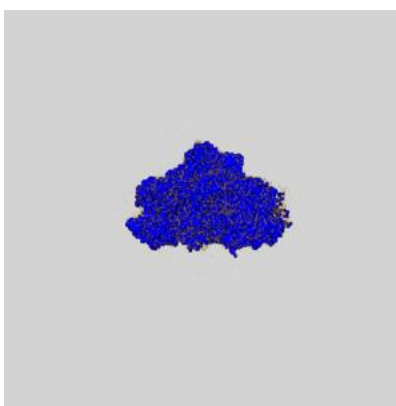


Z

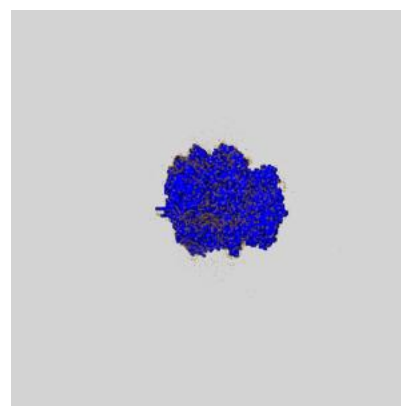
6.6.2 emd_53120_msk_2.map [i](#)



X



Y

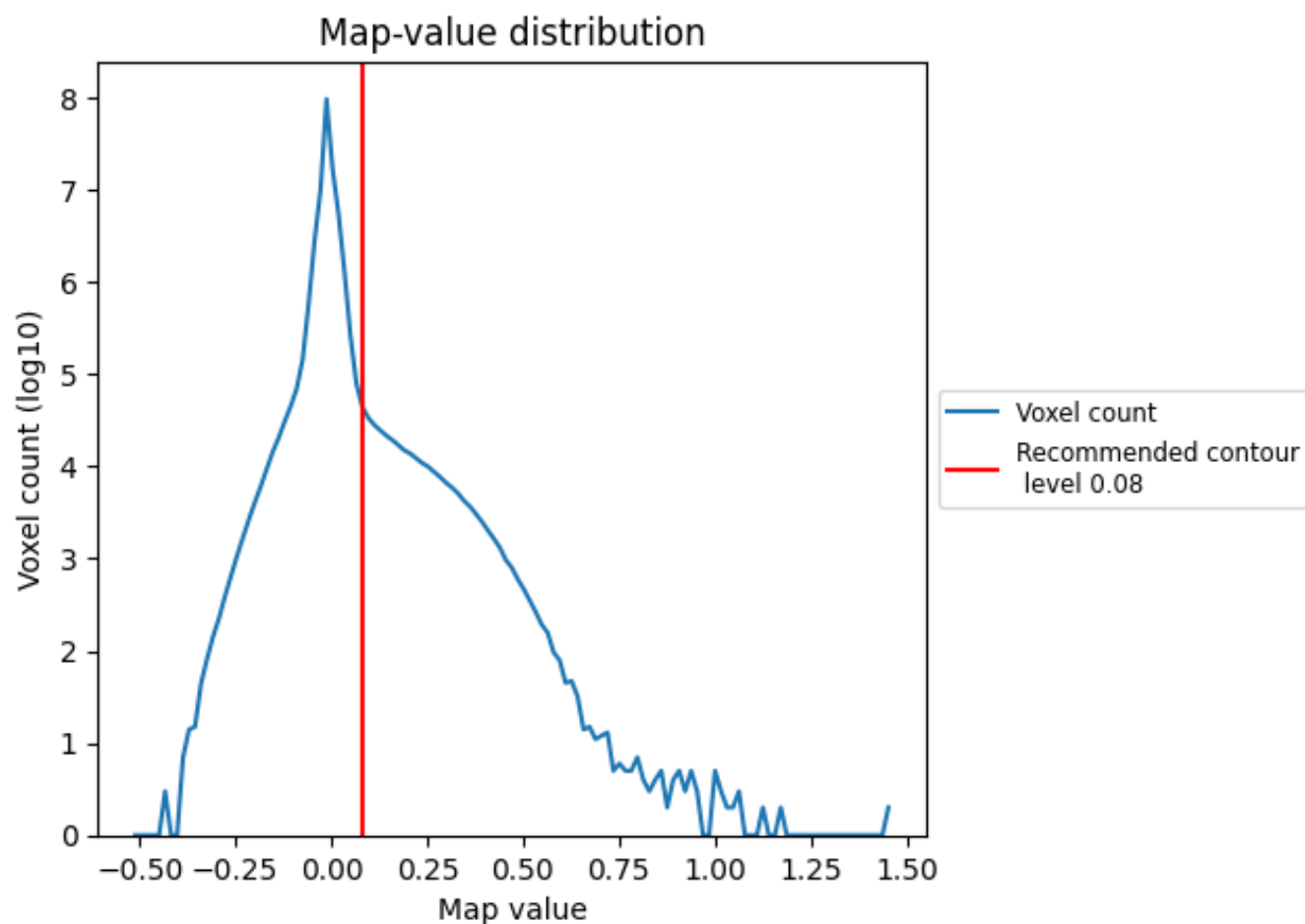


Z

7 Map analysis [i](#)

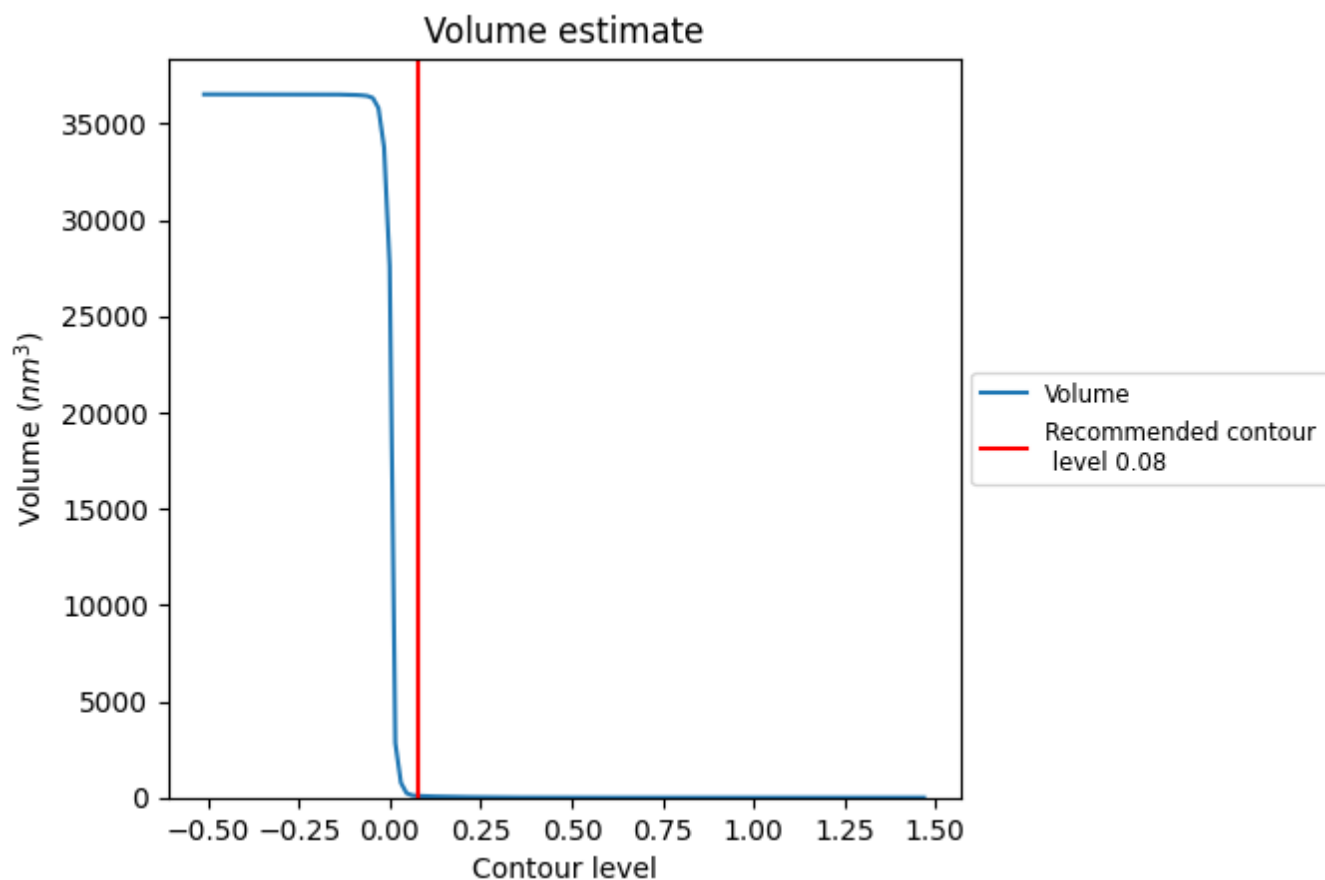
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

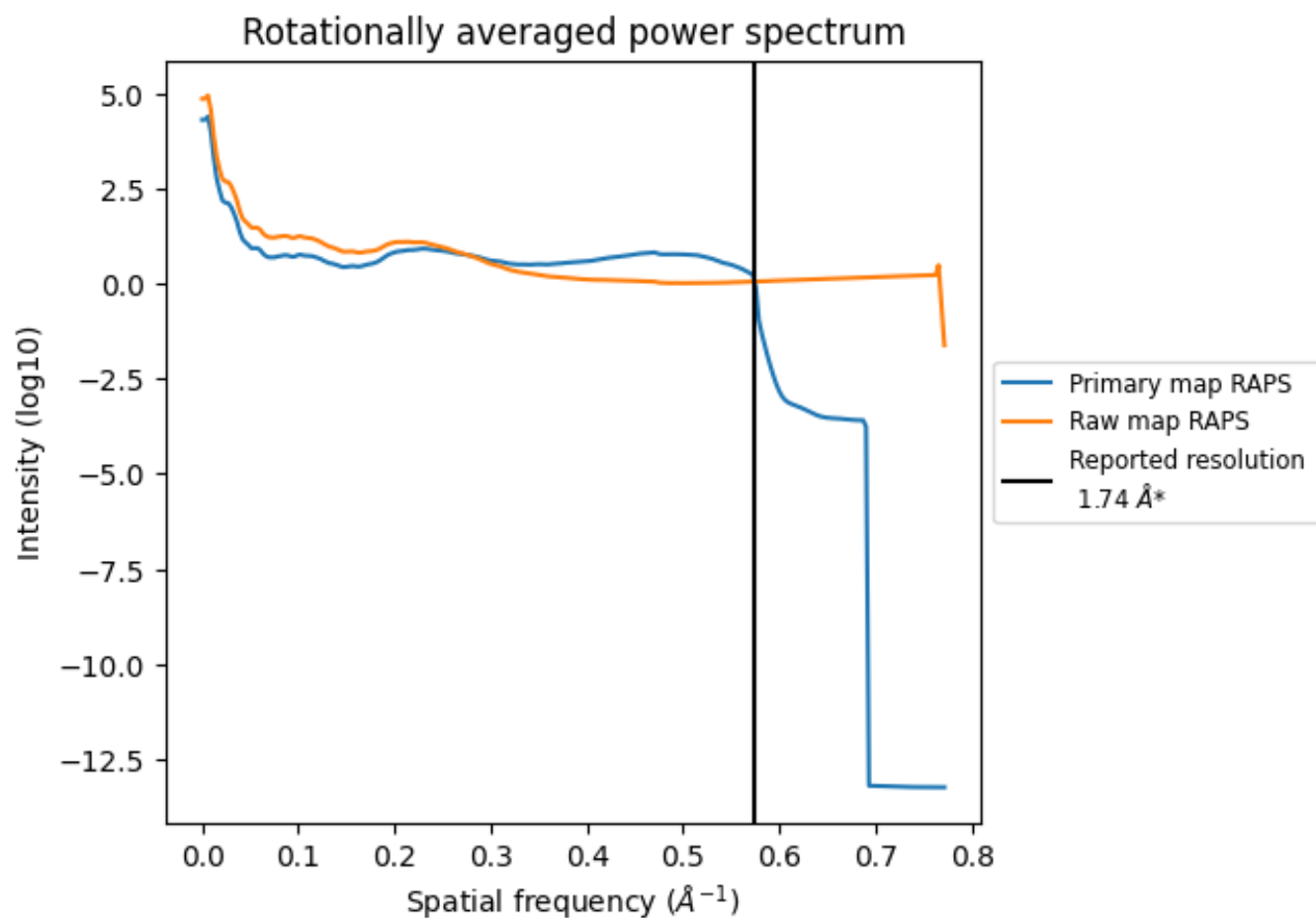
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 85 nm^3 ; this corresponds to an approximate mass of 77 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

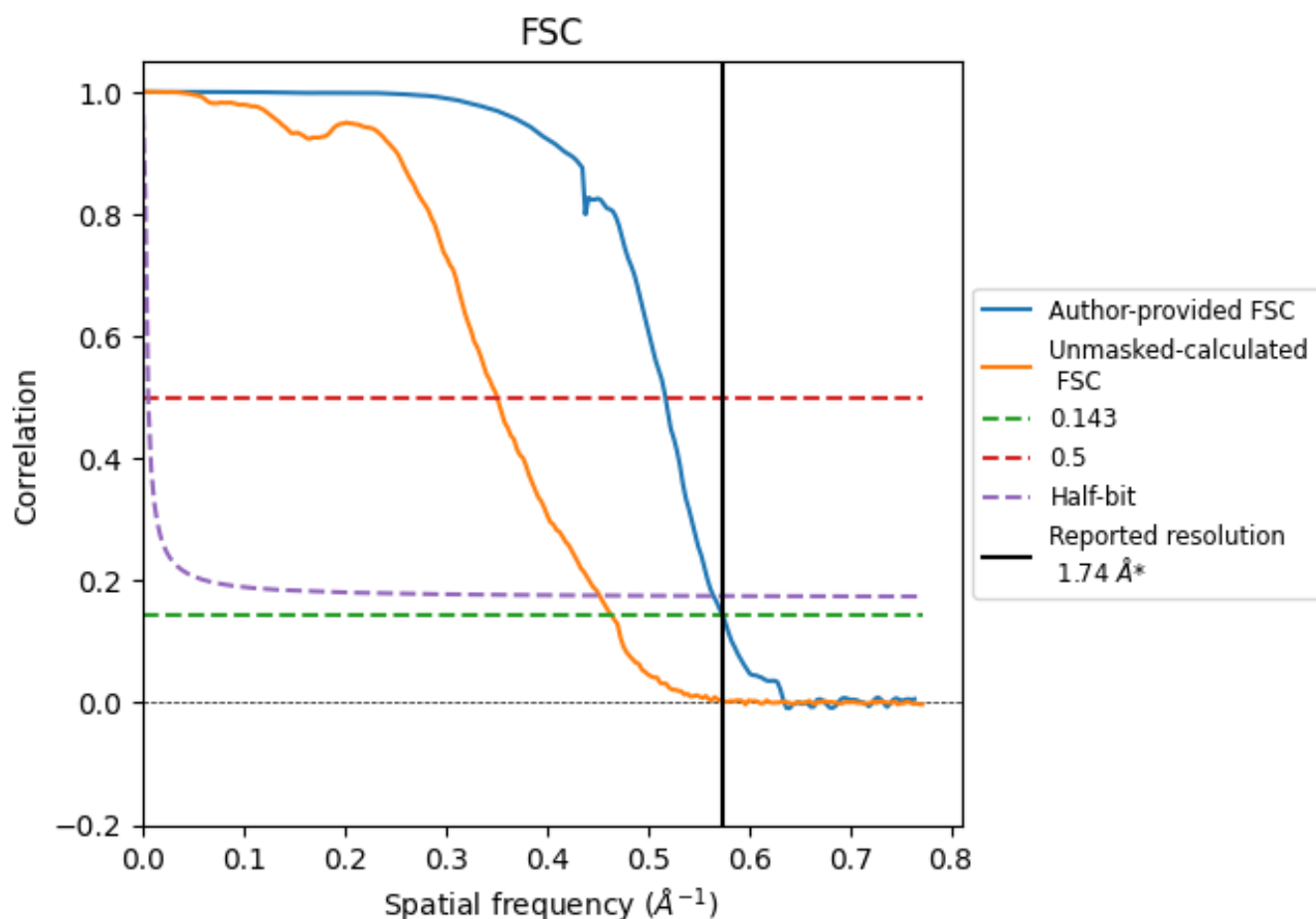


*Reported resolution corresponds to spatial frequency of 0.575 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of $0.575 \text{ \AA}^{-1}$

8.2 Resolution estimates [i](#)

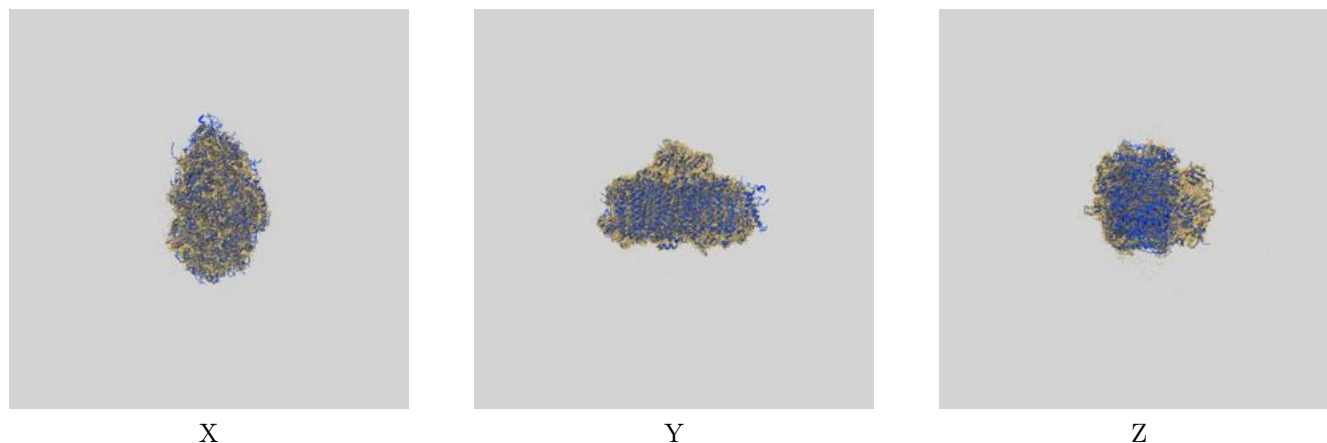
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	1.74	-	-
Author-provided FSC curve	1.74	1.93	1.77
Unmasked-calculated*	2.15	2.85	2.21

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.15 differs from the reported value 1.74 by more than 10 %

9 Map-model fit [i](#)

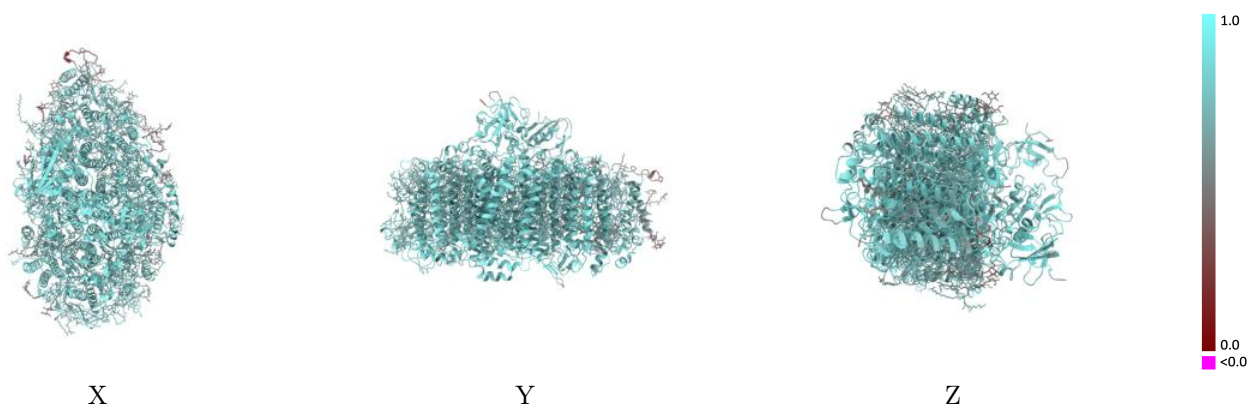
This section contains information regarding the fit between EMDB map EMD-53120 and PDB model 9QFP. Per-residue inclusion information can be found in section 3 on page 19.

9.1 Map-model overlay [i](#)



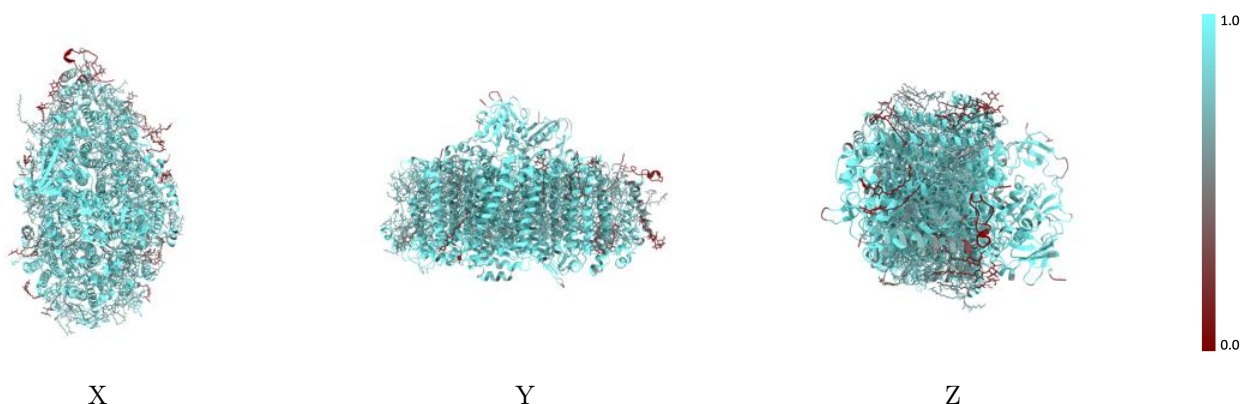
The images above show the 3D surface view of the map at the recommended contour level 0.08 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



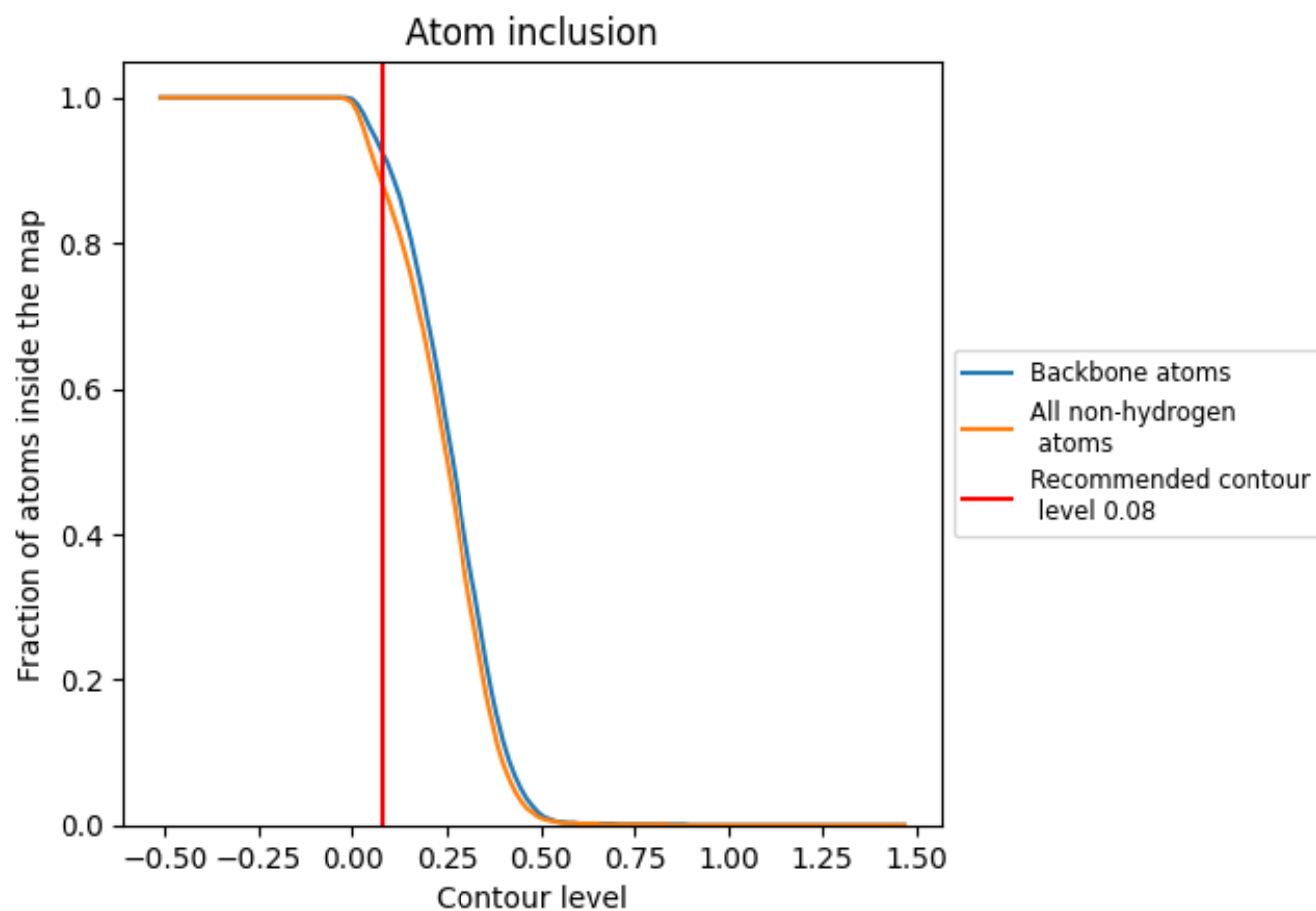
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.08).

9.4 Atom inclusion ⓘ



At the recommended contour level, 92% of all backbone atoms, 88% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.08) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8810	0.7900
A	0.8940	0.7960
B	0.9120	0.8060
C	0.9880	0.8460
D	0.9120	0.7930
E	0.8670	0.7770
F	0.8650	0.7820
I	0.6330	0.6640
J	0.8510	0.7650
K	0.5070	0.6220
M	0.9390	0.8070
X	0.6810	0.6970

1.0

0.0

<0.0