



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 05:22 PM UTC

PDB ID : 8J6Z / pdb_00008j6z
EMDB ID : EMD-36021
Title : Cryo-EM structure of the Arabidopsis thaliana photosystem I(PSI-LHCII-ST2)
Authors : Chen, S.J.B.; Wu, J.H.; Sui, S.F.; Zhang, L.X.
Deposited on : 2023-04-26
Resolution : 2.79 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
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) : 2.49

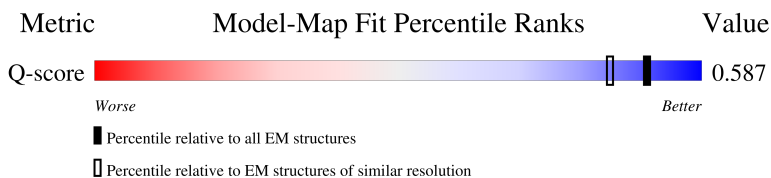
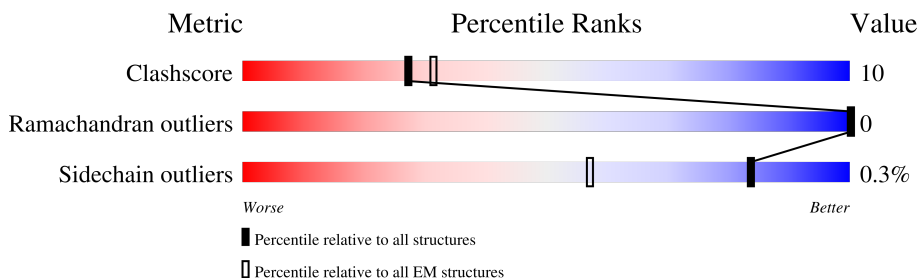
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.79 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.



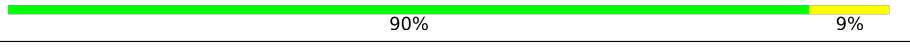
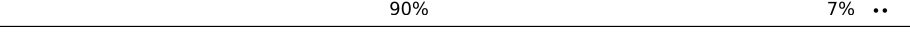
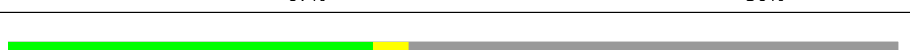
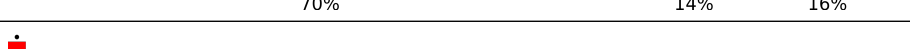
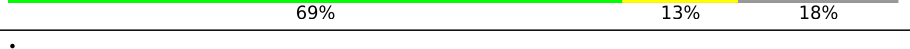
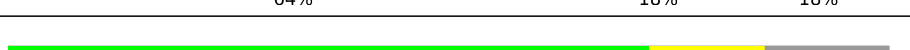
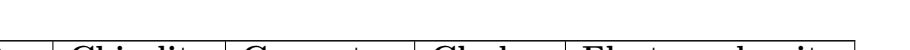
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10811 (2.29 - 3.29)

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	1	241	
2	2	257	
3	3	273	
4	4	251	

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Mol	Chain	Length	Quality of chain
5	A	750	
6	B	734	
7	C	81	
8	D	204	
9	E	143	
10	F	221	
11	G	160	
12	H	145	
13	I	37	
14	J	44	
15	K	130	
16	L	219	
17	O	140	
18	x	267	
18	y	267	
19	z	265	

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
20	CHL	1	601	X	-	-	-
20	CHL	1	606	X	-	-	-
20	CHL	2	601	X	-	-	-
20	CHL	2	605	X	-	-	-
20	CHL	2	606	X	-	-	-
20	CHL	2	607	X	-	-	-
20	CHL	2	615	X	-	-	-
20	CHL	3	606	X	-	-	-
20	CHL	4	605	X	-	-	-
20	CHL	4	606	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
20	CHL	4	607	X	-	-	-
20	CHL	4	615	X	-	-	-
20	CHL	x	601	X	-	-	-
20	CHL	x	605	X	-	-	-
20	CHL	x	606	X	-	-	-
20	CHL	x	607	X	-	-	-
20	CHL	x	608	X	-	-	-
20	CHL	x	609	X	-	-	-
20	CHL	y	601	X	-	-	-
20	CHL	y	605	X	-	-	-
20	CHL	y	606	X	-	-	-
20	CHL	y	607	X	-	-	-
20	CHL	y	608	X	-	-	-
20	CHL	y	609	X	-	-	-
20	CHL	z	601	X	-	-	-
20	CHL	z	605	X	-	-	-
20	CHL	z	606	X	-	-	-
20	CHL	z	607	X	-	-	-
20	CHL	z	608	X	-	-	-
20	CHL	z	609	X	-	-	-
21	CLA	1	602	X	-	-	-
21	CLA	1	603	X	-	-	-
21	CLA	1	604	X	-	-	-
21	CLA	1	605	X	-	-	-
21	CLA	1	607	X	-	-	-
21	CLA	1	608	X	-	-	-
21	CLA	1	609	X	-	-	-
21	CLA	1	610	X	-	-	-
21	CLA	1	611	X	-	-	-
21	CLA	1	612	X	-	-	-
21	CLA	1	613	X	-	-	-
21	CLA	2	602	X	-	-	-
21	CLA	2	603	X	-	-	-
21	CLA	2	604	X	-	-	-
21	CLA	2	608	X	-	-	-
21	CLA	2	609	X	-	-	-
21	CLA	2	610	X	-	-	-
21	CLA	2	611	X	-	-	-
21	CLA	2	612	X	-	-	-
21	CLA	2	613	X	-	-	-
21	CLA	3	601	X	-	-	-
21	CLA	3	602	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	3	603	X	-	-	-
21	CLA	3	604	X	-	-	-
21	CLA	3	605	X	-	-	-
21	CLA	3	607	X	-	-	-
21	CLA	3	608	X	-	-	-
21	CLA	3	609	X	-	-	-
21	CLA	3	610	X	-	-	-
21	CLA	3	611	X	-	-	-
21	CLA	3	612	X	-	-	-
21	CLA	4	601	X	-	-	-
21	CLA	4	602	X	-	-	-
21	CLA	4	603	X	-	-	-
21	CLA	4	604	X	-	-	-
21	CLA	4	608	X	-	-	-
21	CLA	4	609	X	-	-	-
21	CLA	4	610	X	-	-	-
21	CLA	4	611	X	-	-	-
21	CLA	4	612	X	-	-	-
21	CLA	4	613	X	-	-	-
21	CLA	4	614	X	-	-	-
21	CLA	A	802	X	-	-	-
21	CLA	A	803	X	-	-	-
21	CLA	A	804	X	-	-	-
21	CLA	A	805	X	-	-	-
21	CLA	A	806	X	-	-	-
21	CLA	A	807	X	-	-	-
21	CLA	A	808	X	-	-	-
21	CLA	A	809	X	-	-	-
21	CLA	A	810	X	-	-	-
21	CLA	A	811	X	-	-	-
21	CLA	A	812	X	-	-	-
21	CLA	A	813	X	-	-	-
21	CLA	A	814	X	-	-	-
21	CLA	A	815	X	-	-	-
21	CLA	A	816	X	-	-	-
21	CLA	A	817	X	-	-	-
21	CLA	A	818	X	-	-	-
21	CLA	A	819	X	-	-	-
21	CLA	A	820	X	-	-	-
21	CLA	A	821	X	-	-	-
21	CLA	A	822	X	-	-	-
21	CLA	A	823	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	A	824	X	-	-	-
21	CLA	A	825	X	-	-	-
21	CLA	A	826	X	-	-	-
21	CLA	A	827	X	-	-	-
21	CLA	A	828	X	-	-	-
21	CLA	A	829	X	-	-	-
21	CLA	A	830	X	-	-	-
21	CLA	A	831	X	-	-	-
21	CLA	A	832	X	-	-	-
21	CLA	A	833	X	-	-	-
21	CLA	A	834	X	-	-	-
21	CLA	A	835	X	-	-	-
21	CLA	A	836	X	-	-	-
21	CLA	A	837	X	-	-	-
21	CLA	A	838	X	-	-	-
21	CLA	A	839	X	-	-	-
21	CLA	A	840	X	-	-	-
21	CLA	A	841	X	-	-	-
21	CLA	A	842	X	-	-	-
21	CLA	A	843	X	-	-	-
21	CLA	A	844	X	-	-	-
21	CLA	A	845	X	-	-	-
21	CLA	B	802	X	-	-	-
21	CLA	B	803	X	-	-	-
21	CLA	B	804	X	-	-	-
21	CLA	B	805	X	-	-	-
21	CLA	B	806	X	-	-	-
21	CLA	B	807	X	-	-	-
21	CLA	B	808	X	-	-	-
21	CLA	B	809	X	-	-	-
21	CLA	B	810	X	-	-	-
21	CLA	B	811	X	-	-	-
21	CLA	B	812	X	-	-	-
21	CLA	B	813	X	-	-	-
21	CLA	B	814	X	-	-	-
21	CLA	B	815	X	-	-	-
21	CLA	B	816	X	-	-	-
21	CLA	B	817	X	-	-	-
21	CLA	B	818	X	-	-	-
21	CLA	B	819	X	-	-	-
21	CLA	B	820	X	-	-	-
21	CLA	B	821	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	B	822	X	-	-	-
21	CLA	B	823	X	-	-	-
21	CLA	B	824	X	-	-	-
21	CLA	B	825	X	-	-	-
21	CLA	B	826	X	-	-	-
21	CLA	B	827	X	-	-	-
21	CLA	B	828	X	-	-	-
21	CLA	B	829	X	-	-	-
21	CLA	B	830	X	-	-	-
21	CLA	B	831	X	-	-	-
21	CLA	B	832	X	-	-	-
21	CLA	B	833	X	-	-	-
21	CLA	B	834	X	-	-	-
21	CLA	B	835	X	-	-	-
21	CLA	B	836	X	-	-	-
21	CLA	B	837	X	-	-	-
21	CLA	B	838	X	-	-	-
21	CLA	B	839	X	-	-	-
21	CLA	B	840	X	-	-	-
21	CLA	B	841	X	-	-	-
21	CLA	F	301	X	-	-	-
21	CLA	F	302	X	-	-	-
21	CLA	F	303	X	-	-	-
21	CLA	G	201	X	-	-	-
21	CLA	G	202	X	-	-	-
21	CLA	G	203	X	-	-	-
21	CLA	H	201	X	-	-	-
21	CLA	J	101	X	-	-	-
21	CLA	K	201	X	-	-	-
21	CLA	K	203	X	-	-	-
21	CLA	K	204	X	-	-	-
21	CLA	K	206	X	-	-	-
21	CLA	L	302	X	-	-	-
21	CLA	L	303	X	-	-	-
21	CLA	L	304	X	-	-	-
21	CLA	O	201	X	-	-	-
21	CLA	O	202	X	-	-	-
21	CLA	O	203	X	-	-	-
21	CLA	x	602	X	-	-	-
21	CLA	x	603	X	-	-	-
21	CLA	x	604	X	-	-	-
21	CLA	x	610	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	CLA	x	611	X	-	-	-
21	CLA	x	612	X	-	-	-
21	CLA	x	613	X	-	-	-
21	CLA	x	614	X	-	-	-
21	CLA	y	602	X	-	-	-
21	CLA	y	603	X	-	-	-
21	CLA	y	604	X	-	-	-
21	CLA	y	610	X	-	-	-
21	CLA	y	611	X	-	-	-
21	CLA	y	612	X	-	-	-
21	CLA	y	613	X	-	-	-
21	CLA	y	614	X	-	-	-
21	CLA	z	602	X	-	-	-
21	CLA	z	603	X	-	-	-
21	CLA	z	604	X	-	-	-
21	CLA	z	610	X	-	-	-
21	CLA	z	611	X	-	-	-
21	CLA	z	612	X	-	-	-
21	CLA	z	613	X	-	-	-
21	CLA	z	614	X	-	-	-
27	CL0	A	801	X	-	-	-
28	SF4	A	854	-	-	X	-
28	SF4	C	101	-	-	X	-
28	SF4	C	102	-	-	X	-

2 Entry composition

There are 31 unique types of molecules in this entry. The entry contains 43924 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 Chlorophyll a-b binding protein 6, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1	193	Total	C	N	O	S	0	0
			1496	975	248	268	5		

- Molecule 2 is a protein called Photosystem I chlorophyll a/b-binding protein 2, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	2	201	Total	C	N	O	S	0	0
			1566	1024	256	282	4		

- Molecule 3 is a protein called Photosystem I chlorophyll a/b-binding protein 3-1, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3	218	Total	C	N	O	S	0	0
			1666	1088	270	303	5		

- Molecule 4 is a protein called Chlorophyll a-b binding protein 4, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	4	196	Total	C	N	O	S	0	0
			1551	1013	253	282	3		

- Molecule 5 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	A	737	Total	C	N	O	S	0	0
			5807	3807	986	996	18		

- Molecule 6 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	B	732	Total	C	N	O	S	0	0
			5854	3842	997	1001	14		

- Molecule 7 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	C	80	Total	C	N	O	S	0	0
			616	381	107	117	11		

- Molecule 8 is a protein called Photosystem I reaction center subunit II-2, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	D	143	Total	C	N	O	S	0	0
			1128	723	195	206	4		

- Molecule 9 is a protein called Photosystem I reaction center subunit IV A, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	E	64	Total	C	N	O	S	0	0
			517	331	92	94			

- Molecule 10 is a protein called Photosystem I reaction center subunit III, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	F	152	Total	C	N	O	S	0	0
			1208	789	207	209	3		

- Molecule 11 is a protein called Photosystem I reaction center subunit V, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	G	91	Total	C	N	O	S	0	0
			708	458	118	132			

- Molecule 12 is a protein called Photosystem I reaction center subunit VI-2, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	H	90	Total	C	N	O	S	0	0
			693	451	112	130			

- Molecule 13 is a protein called Photosystem I reaction center subunit VIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	I	31	Total	C	N	O	S	0	0
			239	162	39	37	1		

- Molecule 14 is a protein called Photosystem I reaction center subunit IX.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	J	41	Total	C	N	O	S	0	0
			327	221	50	55	1		

- Molecule 15 is a protein called Photosystem I reaction center subunit psaK, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	K	84	Total	C	N	O	S	0	0
			593	373	104	113	3		

- Molecule 16 is a protein called Photosystem I reaction center subunit XI, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	L	160	Total	C	N	O	S	0	0
			1207	799	191	215	2		

- Molecule 17 is a protein called Photosystem I subunit O.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	O	86	Total	C	N	O	S	0	0
			686	456	114	115	1		

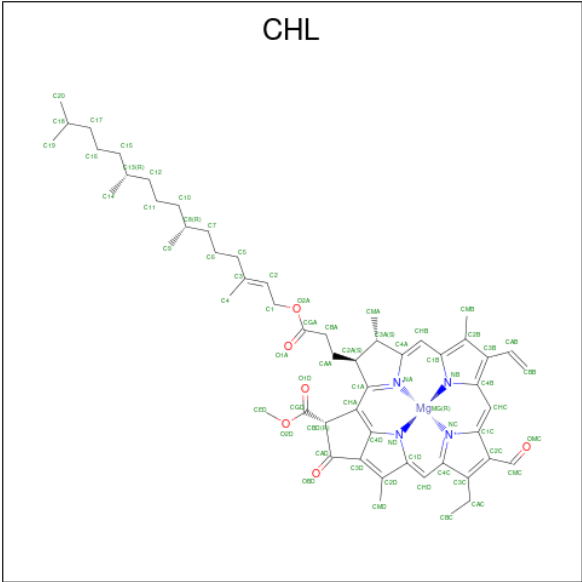
- Molecule 18 is a protein called Chlorophyll a-b binding protein 2, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	x	219	Total	C	N	O	S	0	0
			1666	1078	273	310	5		
18	y	219	Total	C	N	O	S	0	0
			1666	1078	273	310	5		

- Molecule 19 is a protein called Chlorophyll a-b binding protein 2.1, chloroplastic.

Mol	Chain	Residues	Atoms						AltConf	Trace
19	z	227	Total	C	N	O	P	S	0	0
			1759	1140	286	327	1	5		

- Molecule 20 is CHLOROPHYLL B (CCD ID: CHL) (formula: C₅₅H₇₀MgN₄O₆) (labeled as "Ligand of Interest" by depositor).



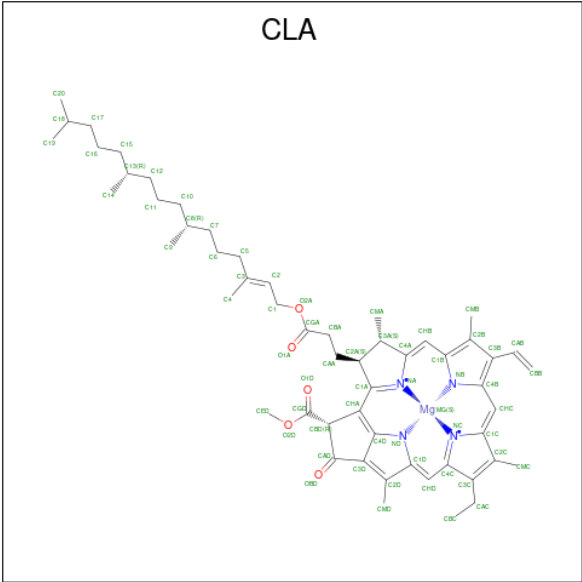
Mol	Chain	Residues	Atoms					AltConf
20	1	1	Total 52	C 41	Mg 1	N 4	O 6	0
20	1	1	Total 41	C 32	Mg 1	N 4	O 4	0
20	2	1	Total 42	C 33	Mg 1	N 4	O 4	0
20	2	1	Total 43	C 34	Mg 1	N 4	O 4	0
20	2	1	Total 47	C 36	Mg 1	N 4	O 6	0
20	2	1	Total 51	C 40	Mg 1	N 4	O 6	0
20	2	1	Total 43	C 34	Mg 1	N 4	O 4	0
20	3	1	Total 45	C 35	Mg 1	N 4	O 5	0
20	4	1	Total 41	C 32	Mg 1	N 4	O 4	0
20	4	1	Total 41	C 33	Mg 1	N 4	O 3	0
20	4	1	Total 41	C 32	Mg 1	N 4	O 4	0
20	4	1	Total 46	C 35	Mg 1	N 4	O 6	0
20	x	1	Total 42	C 33	Mg 1	N 4	O 4	0
20	x	1	Total 46	C 35	Mg 1	N 4	O 6	0

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Mol	Chain	Residues	Atoms					AltConf
20	x	1	Total	C	Mg	N	O	0
			53	42	1	4	6	
20	x	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
20	x	1	Total	C	Mg	N	O	0
			53	42	1	4	6	
20	x	1	Total	C	Mg	N	O	0
			53	42	1	4	6	
20	y	1	Total	C	Mg	N	O	0
			53	42	1	4	6	
20	y	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
20	y	1	Total	C	Mg	N	O	0
			53	42	1	4	6	
20	y	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
20	y	1	Total	C	Mg	N	O	0
			49	38	1	4	6	
20	y	1	Total	C	Mg	N	O	0
			53	42	1	4	6	
20	z	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
20	z	1	Total	C	Mg	N	O	0
			53	42	1	4	6	
20	z	1	Total	C	Mg	N	O	0
			49	38	1	4	6	
20	z	1	Total	C	Mg	N	O	0
			53	42	1	4	6	
20	z	1	Total	C	Mg	N	O	0
			42	33	1	4	4	
20	z	1	Total	C	Mg	N	O	0
			52	41	1	4	6	

- Molecule 21 is CHLOROPHYLL A (CCD ID: CLA) (formula: $C_{55}H_{72}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
21	1	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			49	39	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
21	1	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
21	1	1	Total	C	Mg	N	O	0
			38	30	1	4	3	
21	1	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
21	1	1	Total	C	Mg	N	O	0
			38	30	1	4	3	
21	2	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	2	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
21	2	1	Total	C	Mg	N	O	0
			43	34	1	4	4	

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Mol	Chain	Residues	Atoms					AltConf
21	2	1	Total	C	Mg	N	O	0
			38	30	1	4	3	
21	2	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	2	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
21	2	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	2	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
21	2	1	Total	C	Mg	N	O	0
			43	35	1	4	3	
21	3	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
21	3	1	Total	C	Mg	N	O	0
			36	30	1	4	1	
21	3	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
21	3	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	3	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
21	3	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	3	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
21	3	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
21	3	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	3	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	3	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
21	4	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	4	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	4	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	4	1	Total	C	Mg	N	O	0
			44	34	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
21	4	1	Total 41	C 33	Mg 1	N 4	O 3	0
21	4	1	Total 57	C 47	Mg 1	N 4	O 5	0
21	4	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	4	1	Total 60	C 50	Mg 1	N 4	O 5	0
21	4	1	Total 42	C 34	Mg 1	N 4	O 3	0
21	4	1	Total 50	C 40	Mg 1	N 4	O 5	0
21	4	1	Total 43	C 33	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 50	C 40	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 54	C 44	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 60	C 50	Mg 1	N 4	O 5	0
21	A	1	Total 50	C 40	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
21	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
21	A	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
21	A	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
21	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			59	49	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	A	1	Total	C	Mg	N	O	0
			56	46	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	A	1	Total 50	C 40	Mg 1	N 4	O 5	0
21	A	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	A	1	Total 52	C 42	Mg 1	N 4	O 5	0
21	A	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	A	1	Total 55	C 45	Mg 1	N 4	O 5	0
21	B	1	Total 55	C 45	Mg 1	N 4	O 5	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	B	1	Total 50	C 40	Mg 1	N 4	O 5	0
21	B	1	Total 41	C 33	Mg 1	N 4	O 3	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	B	1	Total 59	C 49	Mg 1	N 4	O 5	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	B	1	Total 56	C 46	Mg 1	N 4	O 5	0
21	B	1	Total 43	C 35	Mg 1	N 4	O 3	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
21	B	1	Total	C	Mg	N	O	0
			43	35	1	4	3	
21	B	1	Total	C	Mg	N	O	0
			54	44	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			52	42	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
21	B	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			62	52	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	B	1	Total 43	C 35	Mg 1	N 4	O 3	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	B	1	Total 60	C 50	Mg 1	N 4	O 5	0
21	B	1	Total 43	C 35	Mg 1	N 4	O 3	0
21	B	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	F	1	Total 51	C 41	Mg 1	N 4	O 5	0
21	F	1	Total 41	C 33	Mg 1	N 4	O 3	0
21	F	1	Total 57	C 47	Mg 1	N 4	O 5	0
21	G	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	G	1	Total 42	C 34	Mg 1	N 4	O 3	0
21	G	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	H	1	Total 60	C 50	Mg 1	N 4	O 5	0
21	J	1	Total 51	C 41	Mg 1	N 4	O 5	0
21	K	1	Total 37	C 31	Mg 1	N 4	O 1	0
21	K	1	Total 46	C 36	Mg 1	N 4	O 5	0
21	K	1	Total 39	C 31	Mg 1	N 4	O 3	0
21	K	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	L	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	L	1	Total 65	C 55	Mg 1	N 4	O 5	0

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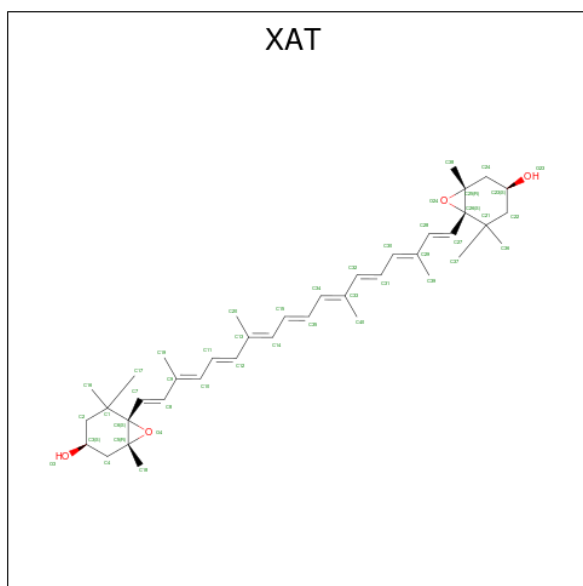
Mol	Chain	Residues	Atoms					AltConf
21	L	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	O	1	Total 38	C 30	Mg 1	N 4	O 3	0
21	O	1	Total 38	C 30	Mg 1	N 4	O 3	0
21	O	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	x	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	x	1	Total 52	C 42	Mg 1	N 4	O 5	0
21	x	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	x	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	x	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	x	1	Total 59	C 49	Mg 1	N 4	O 5	0
21	x	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	x	1	Total 60	C 50	Mg 1	N 4	O 5	0
21	y	1	Total 53	C 43	Mg 1	N 4	O 5	0
21	y	1	Total 58	C 48	Mg 1	N 4	O 5	0
21	y	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	y	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	y	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	y	1	Total 51	C 41	Mg 1	N 4	O 5	0
21	y	1	Total 65	C 55	Mg 1	N 4	O 5	0
21	y	1	Total 45	C 35	Mg 1	N 4	O 5	0
21	z	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
21	z	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	z	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	z	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
21	z	1	Total	C	Mg	N	O	0
			51	41	1	4	5	
21	z	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	z	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
21	z	1	Total	C	Mg	N	O	0
			57	47	1	4	5	

- Molecule 22 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'- TETRAHYDRO-BETA ,BETA-CAROTENE-3,3'-DIOL (CCD ID: XAT) (formula: C₄₀H₅₆O₄).



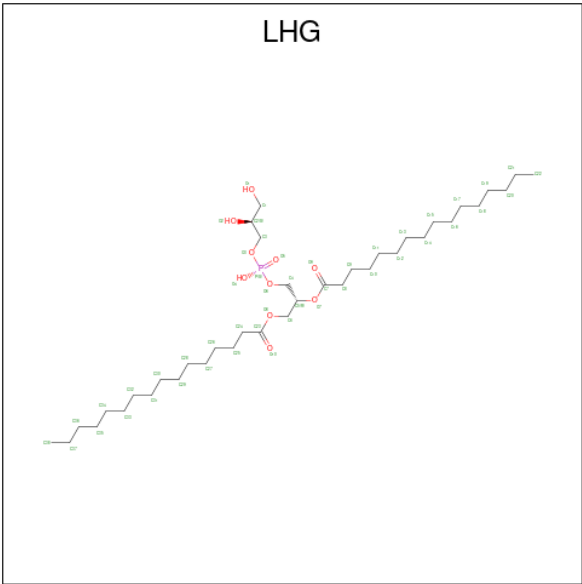
Mol	Chain	Residues	Atoms			AltConf
22	1	1	Total	C	O	0
			44	40	4	
22	2	1	Total	C	O	0
			44	40	4	
22	4	1	Total	C	O	0
			44	40	4	
22	x	1	Total	C	O	0
			44	40	4	

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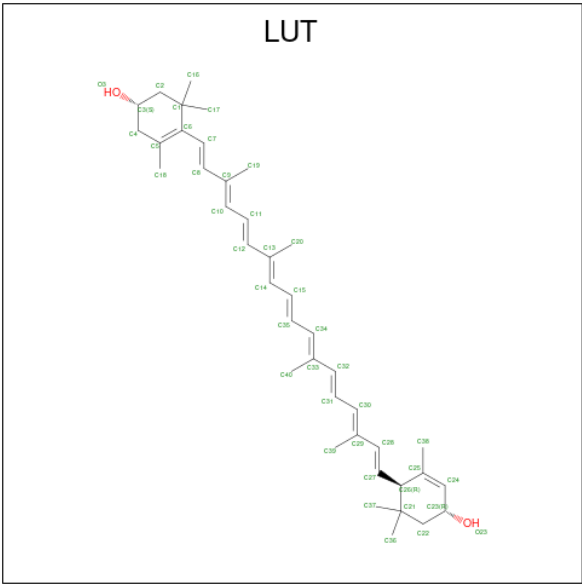
Mol	Chain	Residues	Atoms			AltConf
22	y	1	Total	C	O	0
			44	40	4	
22	z	1	Total	C	O	0
			44	40	4	

- Molecule 23 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: C₃₈H₇₅O₁₀P).



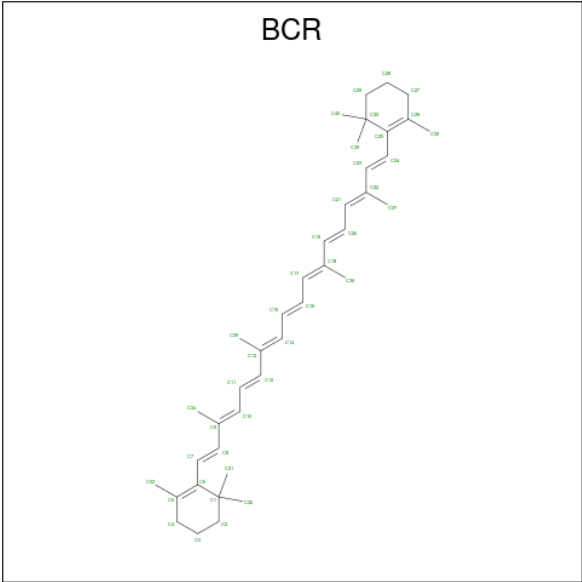
Mol	Chain	Residues	Atoms				AltConf
23	1	1	Total	C	O	P	0
			49	38	10	1	
23	2	1	Total	C	O	P	0
			37	26	10	1	
23	A	1	Total	C	O	P	0
			30	19	10	1	
23	A	1	Total	C	O	P	0
			49	38	10	1	
23	B	1	Total	C	O	P	0
			38	27	10	1	
23	B	1	Total	C	O	P	0
			49	38	10	1	
23	x	1	Total	C	O	P	0
			49	38	10	1	
23	y	1	Total	C	O	P	0
			49	38	10	1	
23	z	1	Total	C	O	P	0
			49	38	10	1	

- Molecule 24 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (CCD ID: LUT) (formula: C₄₀H₅₆O₂).



Mol	Chain	Residues	Atoms			AltConf
24	1	1	Total	C	O	0
			42	40	2	
24	2	1	Total	C	O	0
			42	40	2	
24	2	1	Total	C	O	0
			42	40	2	
24	3	1	Total	C	O	0
			42	40	2	
24	4	1	Total	C	O	0
			42	40	2	
24	x	1	Total	C	O	0
			42	40	2	
24	x	1	Total	C	O	0
			42	40	2	
24	y	1	Total	C	O	0
			42	40	2	
24	y	1	Total	C	O	0
			42	40	2	
24	z	1	Total	C	O	0
			42	40	2	
24	z	1	Total	C	O	0
			42	40	2	

- Molecule 25 is BETA-CAROTENE (CCD ID: BCR) (formula: C₄₀H₅₆).



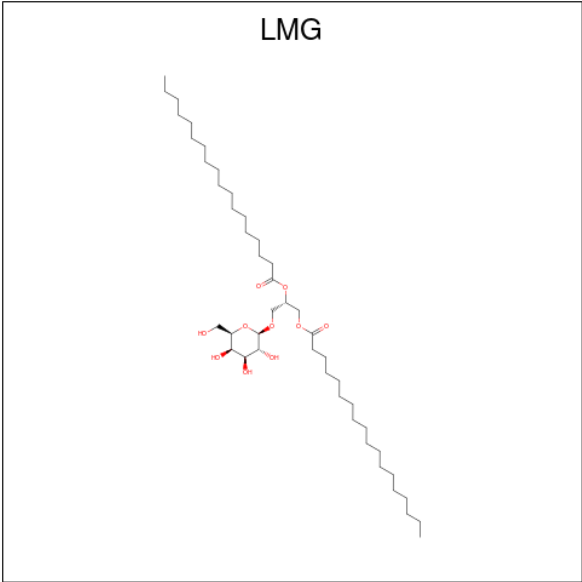
Mol	Chain	Residues	Atoms	AltConf
25	3	1	Total C 40 40	0
25	4	1	Total C 40 40	0
25	A	1	Total C 40 40	0
25	A	1	Total C 40 40	0
25	A	1	Total C 40 40	0
25	A	1	Total C 40 40	0
25	A	1	Total C 40 40	0
25	A	1	Total C 40 40	0
25	B	1	Total C 40 40	0
25	B	1	Total C 40 40	0
25	B	1	Total C 40 40	0
25	B	1	Total C 40 40	0
25	B	1	Total C 40 40	0
25	B	1	Total C 40 40	0

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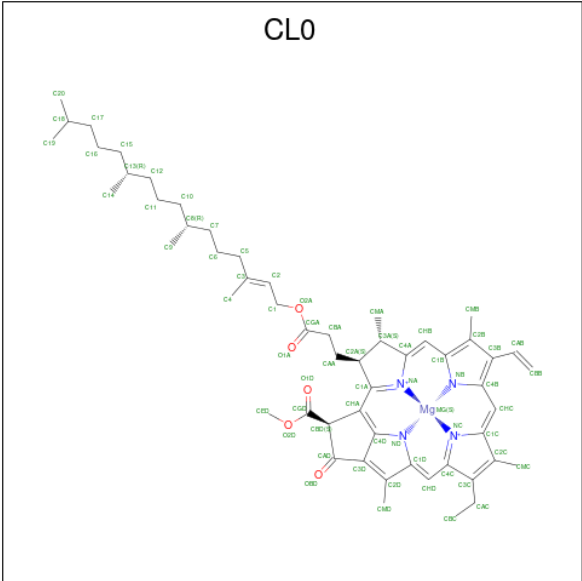
Mol	Chain	Residues	Atoms	AltConf
25	B	1	Total C 40 40	0
25	B	1	Total C 40 40	0
25	F	1	Total C 40 40	0
25	G	1	Total C 40 40	0
25	I	1	Total C 40 40	0
25	J	1	Total C 40 40	0
25	K	1	Total C 40 40	0
25	K	1	Total C 40 40	0
25	L	1	Total C 40 40	0
25	L	1	Total C 40 40	0
25	L	1	Total C 40 40	0
25	O	1	Total C 40 40	0
25	O	1	Total C 40 40	0

- Molecule 26 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: C₄₅H₈₆O₁₀).



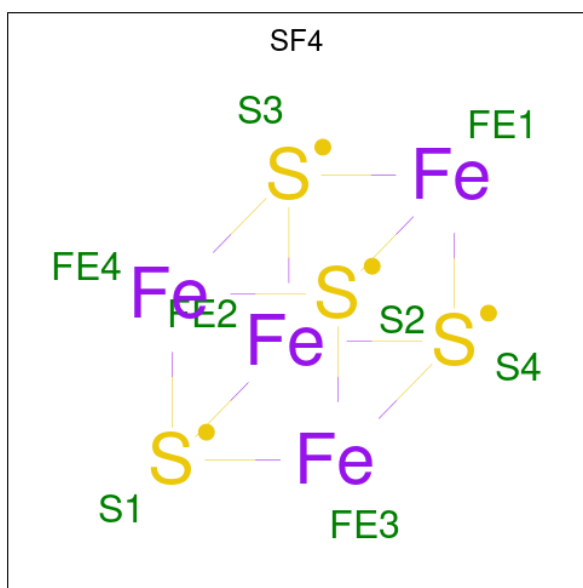
Mol	Chain	Residues	Atoms			AltConf
26	4	1	Total	C	O	0
			39	29	10	
26	4	1	Total	C	O	0
			33	23	10	

- Molecule 27 is CHLOROPHYLL A ISOMER (CCD ID: CL0) (formula: $C_{55}H_{72}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



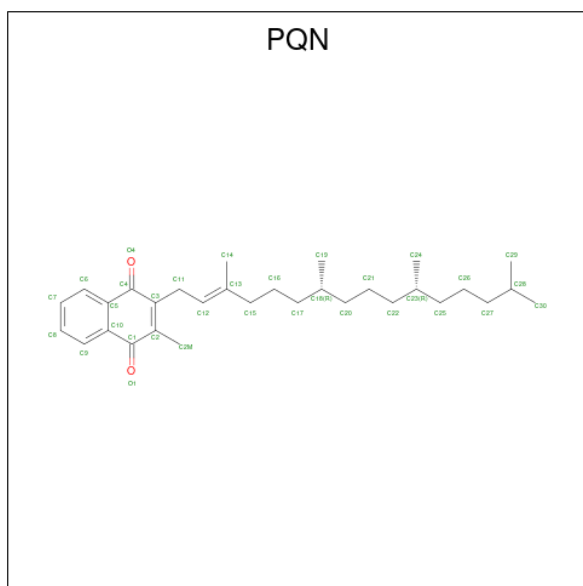
Mol	Chain	Residues	Atoms					AltConf
27	A	1	Total	C	Mg	N	O	0
			61	53	1	4	3	

- Molecule 28 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



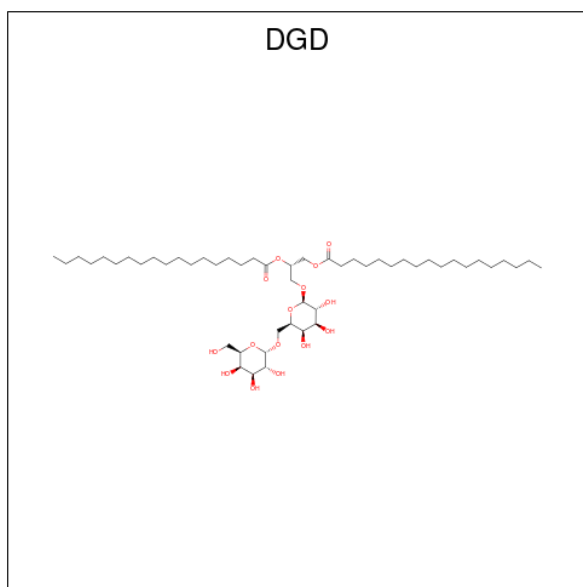
Mol	Chain	Residues	Atoms			AltConf
28	A	1	Total	Fe	S	0
			8	4	4	
28	C	1	Total	Fe	S	0
			8	4	4	
28	C	1	Total	Fe	S	0
			8	4	4	

- Molecule 29 is PHYLLOQUINONE (CCD ID: PQN) (formula: $\text{C}_{31}\text{H}_{46}\text{O}_2$).



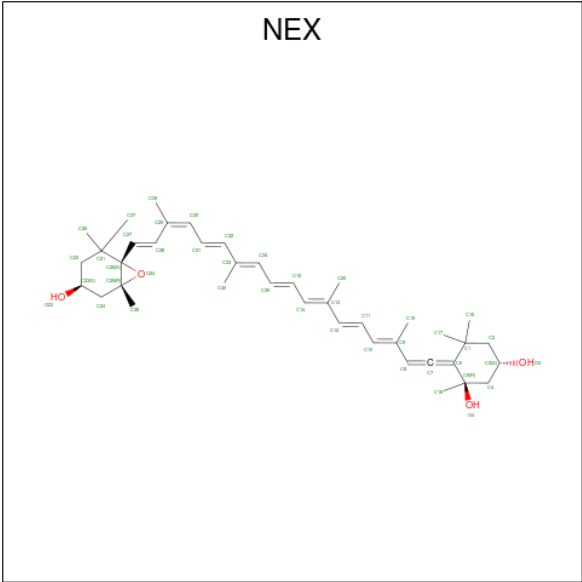
Mol	Chain	Residues	Atoms			AltConf
29	A	1	Total	C	O	0
			33	31	2	
29	B	1	Total	C	O	0
			33	31	2	

- Molecule 30 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$).



Mol	Chain	Residues	Atoms			AltConf
30	B	1	Total	C	O	0
			66	51	15	

- Molecule 31 is (1R,3R)-6-{(3E,5E,7E,9E,11E,13E,15E,17E)-18-[(1S,4R,6R)-4-HYDROXY-2,2,6-TRIMETHYL-7-OXABICYCLO[4.1.0]HEPT-1-YL]-3,7,12,16-TETRAMETHYLOCTA DECA-1,3,5,7,9,11,13,15,17-NONAENYLIDENE}-1,5,5-TRIMETHYLCYCLOHEXANE-1,3-DIOL (CCD ID: NEX) (formula: $C_{40}H_{56}O_4$).

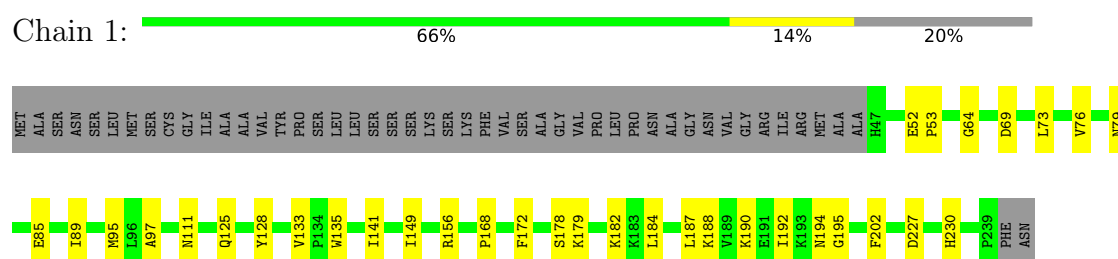


Mol	Chain	Residues	Atoms			AltConf
31	x	1	Total	C	O	0
			44	40	4	
31	y	1	Total	C	O	0
			44	40	4	
31	z	1	Total	C	O	0
			44	40	4	

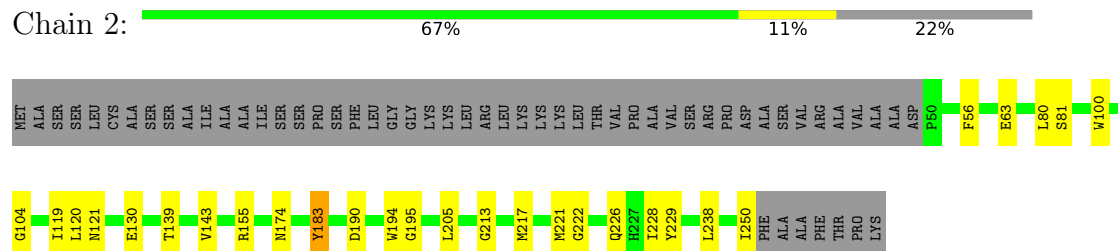
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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.

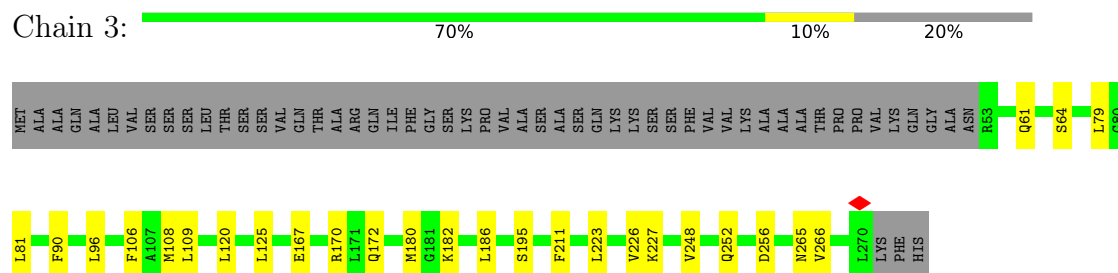
- Molecule 1: Chlorophyll a-b binding protein 6, chloroplastic



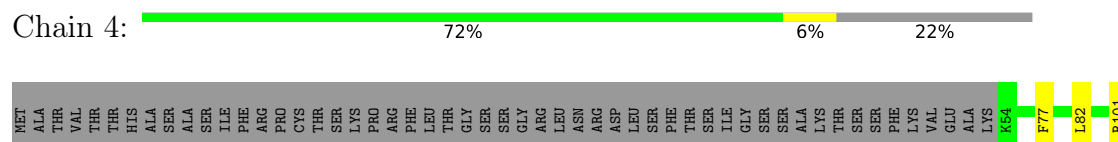
- Molecule 2: Photosystem I chlorophyll a/b-binding protein 2, chloroplastic

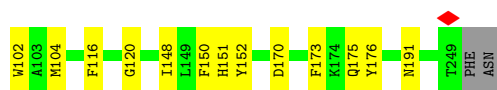


- Molecule 3: Photosystem I chlorophyll a/b-binding protein 3-1, chloroplastic



- Molecule 4: Chlorophyll a-b binding protein 4, chloroplastic





- Molecule 5: Photosystem I P700 chlorophyll a apoprotein A1

Chain A: 91% 8%



- Molecule 6: Photosystem I P700 chlorophyll a apoprotein A2

Chain B: 90% 9%



- Molecule 7: Photosystem I iron-sulfur center

Chain C: 90% 7%



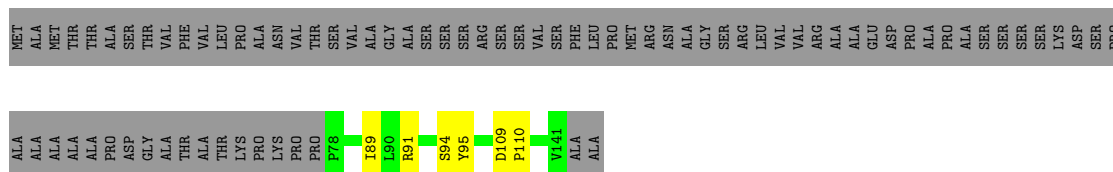
- Molecule 8: Photosystem I reaction center subunit II-2, chloroplastic

Chain D: 67% 30%



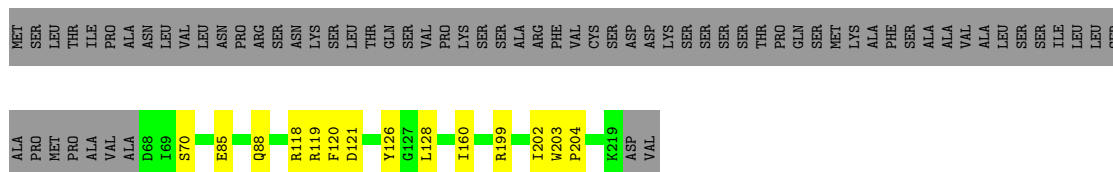
- Molecule 9: Photosystem I reaction center subunit IV A, chloroplastic

Chain E:  41% 55%



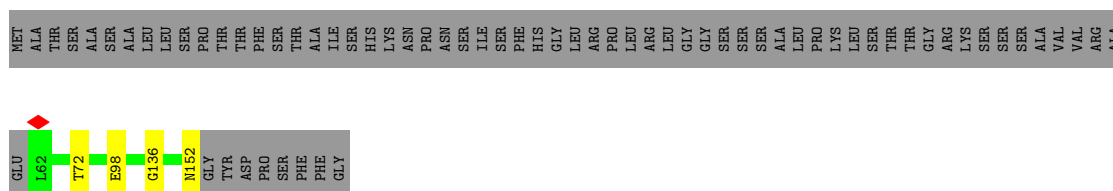
- Molecule 10: Photosystem I reaction center subunit III, chloroplastic

Chain F:  62% 6% 31%



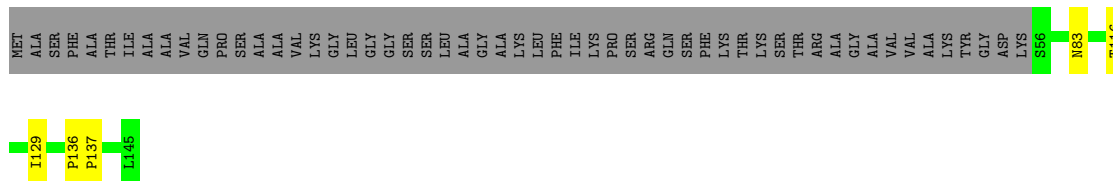
- Molecule 11: Photosystem I reaction center subunit V, chloroplastic

Chain G:  54% 43%



- Molecule 12: Photosystem I reaction center subunit VI-2, chloroplastic

Chain H:  59% 38%



- Molecule 13: Photosystem I reaction center subunit VIII

Chain I:  70% 14% 16%



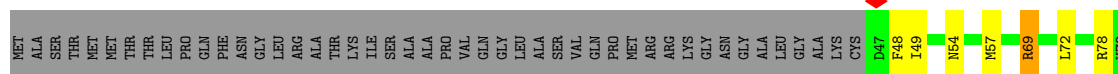
- Molecule 14: Photosystem I reaction center subunit IX

Chain J:  66% 27% 7%



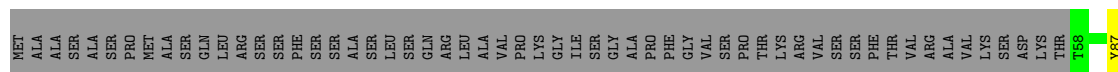
- Molecule 15: Photosystem I reaction center subunit psaK, chloroplastic

Chain K: 55% 9% 35%



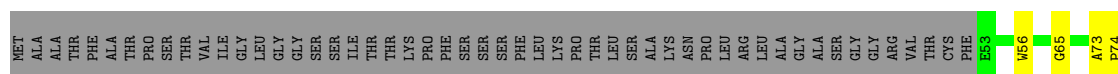
- Molecule 16: Photosystem I reaction center subunit XI, chloroplastic

Chain L: 68% 5% 27%



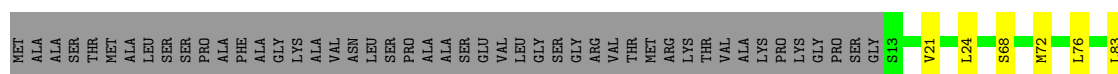
- Molecule 17: Photosystem I subunit O

Chain O: 54% 8% 39%



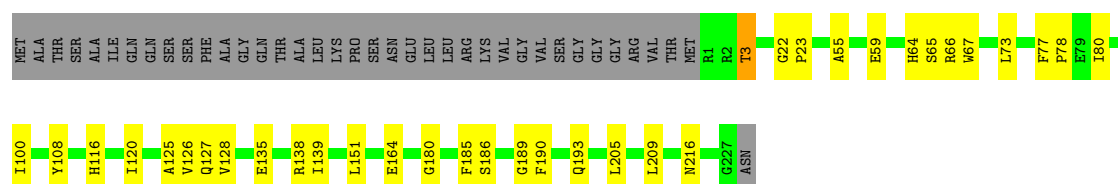
- Molecule 18: Chlorophyll a-b binding protein 2, chloroplastic

Chain x: 69% 13% 18%



- Molecule 18: Chlorophyll a-b binding protein 2, chloroplastic

Chain y: 64% 18% 18%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	188490	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50.5	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	38.962	Depositor
Minimum map value	-20.964	Depositor
Average map value	0.022	Depositor
Map value standard deviation	1.157	Depositor
Recommended contour level	3.59	Depositor
Map size ($\text{\AA}$)	365.232, 365.232, 365.232	wwPDB
Map dimensions	336, 336, 336	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.087, 1.087, 1.087	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: PQN, LUT, DGD, XAT, LMG, CLA, CHL, LHG, BCR, TPO, NEX, SF4, CL0

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	1	0.18	0/1546	0.36	0/2110
2	2	0.43	0/1622	0.74	2/2219 (0.1%)
3	3	0.20	0/1717	0.37	0/2336
4	4	0.17	0/1599	0.32	0/2178
5	A	0.25	0/6005	0.47	3/8194 (0.0%)
6	B	0.26	0/6065	0.50	2/8279 (0.0%)
7	C	0.62	0/629	1.15	2/852 (0.2%)
8	D	0.45	0/1157	0.78	3/1563 (0.2%)
9	E	0.17	0/528	0.40	0/715
10	F	0.15	0/1238	0.37	0/1670
11	G	0.18	0/724	0.38	0/981
12	H	0.37	0/713	0.61	0/968
13	I	0.16	0/245	0.34	0/333
14	J	0.15	0/336	0.36	0/458
15	K	0.53	0/599	0.92	2/809 (0.2%)
16	L	0.21	0/1244	0.49	0/1700
17	O	0.20	0/710	0.37	0/969
18	x	0.35	0/1716	0.65	0/2336
18	y	0.45	0/1716	0.83	0/2336
19	z	0.26	0/1802	0.52	0/2450
All	All	0.30	0/31911	0.56	14/43456 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
5	A	0	1
7	C	0	1
All	All	0	2

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	C	44	ARG	NE-CZ-NH2	6.80	125.33	119.20
8	D	164	ASP	CA-CB-CG	6.02	118.62	112.60
6	B	668	ARG	N-CA-C	5.93	117.74	111.28
15	K	78	ARG	NE-CZ-NH2	5.86	124.48	119.20
8	D	150	ARG	NE-CZ-NH2	5.69	124.32	119.20
15	K	69	ARG	NE-CZ-NH2	5.45	124.10	119.20
5	A	686	PHE	CA-CB-CG	5.34	119.14	113.80
8	D	139	ARG	NE-CZ-NH2	5.29	123.96	119.20
6	B	706	ARG	NE-CZ-NH2	5.25	123.92	119.20
7	C	81	TYR	CA-CB-CG	5.21	123.28	113.90
5	A	578	ARG	NE-CZ-NH2	5.18	123.86	119.20
5	A	723	ARG	NE-CZ-NH2	5.14	123.83	119.20
2	2	183	TYR	CA-C-N	5.11	124.61	119.19
2	2	183	TYR	C-N-CA	5.11	124.61	119.19

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	A	578	ARG	Sidechain
7	C	44	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	1	1496	0	1471	33	0
2	2	1566	0	1519	31	0
3	3	1666	0	1627	23	0
4	4	1551	0	1508	20	0
5	A	5807	0	5657	44	0
6	B	5854	0	5645	63	0
7	C	616	0	595	7	0
8	D	1128	0	1134	2	0
9	E	517	0	526	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	F	1208	0	1243	12	0
11	G	708	0	700	2	0
12	H	693	0	690	4	0
13	I	239	0	258	4	0
14	J	327	0	342	12	0
15	K	593	0	614	18	0
16	L	1207	0	1209	9	0
17	O	686	0	677	7	0
18	x	1666	0	1593	28	0
18	y	1666	0	1593	58	0
19	z	1759	0	1693	29	0
20	1	93	0	62	7	0
20	2	226	0	150	10	0
20	3	45	0	30	2	0
20	4	169	0	100	5	0
20	x	293	0	212	29	0
20	y	296	0	215	29	0
20	z	295	0	213	20	0
21	1	496	0	354	22	0
21	2	434	0	352	36	0
21	3	498	0	377	23	0
21	4	527	0	412	18	0
21	A	2533	0	2495	112	0
21	B	2284	0	2242	97	0
21	F	149	0	123	9	0
21	G	132	0	97	2	0
21	H	60	0	59	4	0
21	J	51	0	41	1	0
21	K	167	0	116	15	0
21	L	155	0	138	7	0
21	O	141	0	110	1	0
21	x	436	0	403	12	0
21	y	427	0	384	34	0
21	z	438	0	409	15	0
22	1	44	0	56	12	0
22	2	44	0	56	4	0
22	4	44	0	54	6	0
22	x	44	0	56	4	0
22	y	44	0	56	9	0
22	z	44	0	56	5	0
23	1	49	0	74	12	0
23	2	37	0	44	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	A	79	0	104	8	0
23	B	87	0	120	5	0
23	x	49	0	74	3	0
23	y	49	0	74	5	0
23	z	49	0	74	6	0
24	1	42	0	56	3	0
24	2	84	0	112	11	0
24	3	42	0	56	8	0
24	4	42	0	56	2	0
24	x	84	0	112	3	0
24	y	84	0	112	7	0
24	z	84	0	112	10	0
25	3	40	0	56	5	0
25	4	40	0	56	6	0
25	A	240	0	336	27	0
25	B	320	0	448	47	0
25	F	40	0	56	2	0
25	G	40	0	56	4	0
25	I	40	0	56	1	0
25	J	40	0	56	5	0
25	K	80	0	112	10	0
25	L	120	0	168	15	0
25	O	80	0	112	2	0
26	4	72	0	84	0	0
27	A	61	0	68	14	0
28	A	8	0	0	2	0
28	C	16	0	0	4	0
29	A	33	0	46	2	0
29	B	33	0	46	2	0
30	B	66	0	96	5	0
31	x	44	0	56	3	0
31	y	44	0	56	4	0
31	z	44	0	56	1	0
All	All	43924	0	42922	848	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 10.

All (848) 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)
18:y:182:LYS:HE2	21:y:611:CLA:O1D	1.51	1.08
4:4:77:PHE:HE2	22:4:617:XAT:H383	1.22	1.05
4:4:77:PHE:CE2	22:4:617:XAT:H383	1.91	1.05
18:y:180:GLU:OE1	21:y:610:CLA:C1B	2.10	1.00
21:A:803:CLA:HBA2	6:B:655:LEU:HB2	1.52	0.90
21:B:814:CLA:H3A	25:B:845:BCR:H393	1.53	0.90
18:y:180:GLU:OE1	21:y:610:CLA:NB	2.07	0.87
18:y:86:ARG:HH12	18:y:207:GLU:HA	1.40	0.86
2:2:143:VAL:HG22	21:4:613:CLA:HBA2	1.58	0.85
21:2:604:CLA:HBB2	20:2:605:CHL:C1C	2.07	0.85
27:A:801:CL0:H7	21:B:802:CLA:HAB	1.59	0.83
18:y:70:TRP:CD1	20:y:608:CHL:HED2	2.12	0.82
20:1:601:CHL:HAA1	23:1:615:LHG:H142	1.62	0.82
20:x:607:CHL:HBB1	20:x:607:CHL:HHC	1.62	0.82
18:y:70:TRP:NE1	20:y:608:CHL:HED2	1.95	0.81
21:1:602:CLA:H51	22:1:614:XAT:H373	1.60	0.81
22:x:617:XAT:H181	22:x:617:XAT:H8	1.63	0.81
20:x:601:CHL:H43	20:y:609:CHL:HBA2	1.62	0.81
25:B:801:BCR:H12C	25:B:801:BCR:H341	1.62	0.79
28:A:854:SF4:S4	6:B:568:CYS:SG	2.78	0.79
20:z:607:CHL:HHC	20:z:607:CHL:HBB1	1.66	0.78
25:L:306:BCR:H321	25:L:306:BCR:HC8	1.67	0.77
21:3:607:CLA:HHC	21:3:607:CLA:HBB1	1.67	0.76
22:2:617:XAT:H401	22:2:617:XAT:H15	1.66	0.76
7:C:14:CYS:SG	28:C:102:SF4:S4	2.83	0.76
7:C:21:CYS:SG	28:C:101:SF4:FE4	1.77	0.76
20:y:601:CHL:HHC	22:y:617:XAT:H373	1.67	0.76
25:B:848:BCR:H403	25:B:848:BCR:H23C	1.66	0.76
25:A:853:BCR:H12C	25:A:853:BCR:H341	1.67	0.76
18:y:64:GLU:OE1	21:y:602:CLA:C4A	2.34	0.76
22:y:617:XAT:H391	22:y:617:XAT:H32	1.68	0.75
21:F:301:CLA:HHC	21:F:301:CLA:HBB1	1.68	0.75
28:A:854:SF4:FE2	6:B:568:CYS:SG	1.77	0.75
18:y:156:TYR:HD1	21:y:610:CLA:O1D	1.70	0.75
18:y:180:GLU:OE1	21:y:610:CLA:CHB	2.34	0.75
21:3:607:CLA:HBA1	21:3:612:CLA:HAB	1.70	0.74
18:y:221:ALA:HB3	22:y:617:XAT:H193	1.69	0.74
18:x:76:LEU:HG	21:x:604:CLA:HBC2	1.68	0.74
21:A:804:CLA:HBD	21:A:804:CLA:HBA2	1.70	0.73
2:2:194:TRP:HB2	21:2:609:CLA:O2A	1.86	0.73
18:y:182:LYS:HE2	21:y:611:CLA:CGD	2.18	0.73
6:B:517:PHE:HA	21:B:837:CLA:HED1	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B:822:CLA:H52	23:B:852:LHG:H121	1.70	0.73
20:x:607:CHL:HAA1	22:z:617:XAT:H21	1.71	0.72
6:B:411:MET:HE2	25:B:846:BCR:H402	1.71	0.72
21:B:816:CLA:O1A	11:G:152:ASN:ND2	2.21	0.72
25:A:848:BCR:H403	25:A:848:BCR:H23C	1.71	0.72
20:3:606:CHL:HHC	20:3:606:CHL:HBB1	1.70	0.72
21:A:840:CLA:HHC	21:A:840:CLA:HBB1	1.72	0.72
7:C:14:CYS:SG	28:C:102:SF4:FE3	1.81	0.71
24:2:619:LUT:H8	24:2:619:LUT:H181	1.72	0.71
20:y:601:CHL:HHC	22:y:617:XAT:C37	2.21	0.70
25:A:850:BCR:H16C	25:A:850:BCR:H351	1.72	0.70
24:2:619:LUT:H172	21:4:610:CLA:HHC	1.73	0.70
18:y:102:GLN:HE21	18:y:109:LEU:HG	1.57	0.70
18:y:166:LEU:HD12	21:y:610:CLA:O2A	1.92	0.70
2:2:119:ILE:HG22	2:2:120:LEU:HD12	1.73	0.70
6:B:432:HIS:HB2	25:B:849:BCR:H402	1.72	0.70
27:A:801:CL0:H7	21:B:802:CLA:CAB	2.21	0.70
27:A:801:CL0:H38	27:A:801:CL0:H67	1.72	0.70
3:3:266:VAL:HG22	21:3:609:CLA:HBD	1.73	0.69
5:A:393:TRP:CD1	21:A:829:CLA:HAB	2.28	0.69
21:1:602:CLA:CBB	22:1:614:XAT:H32	2.23	0.69
3:3:252:GLN:NE2	3:3:256:ASP:OD1	2.26	0.69
25:3:614:BCR:H403	25:3:614:BCR:H23C	1.73	0.69
17:O:99:HIS:O	17:O:102:THR:OG1	2.10	0.69
18:y:64:GLU:OE1	21:y:602:CLA:C1B	2.41	0.69
23:1:615:LHG:H101	25:4:618:BCR:H393	1.74	0.68
5:A:14:VAL:HG11	21:A:811:CLA:HED3	1.75	0.68
18:y:91:PHE:HB2	18:y:94:ALA:HB2	1.75	0.68
21:A:821:CLA:HHC	21:A:821:CLA:HBB1	1.74	0.68
1:1:95:MET:HE2	21:1:609:CLA:HAB	1.76	0.68
20:1:601:CHL:HHC	20:1:601:CHL:HBB1	1.74	0.68
21:4:613:CLA:HBD	21:4:613:CLA:HBA1	1.75	0.68
25:A:851:BCR:H16C	25:A:851:BCR:H351	1.76	0.68
25:A:849:BCR:H383	25:A:849:BCR:H23C	1.76	0.68
16:L:174:ARG:NH2	19:z:3:TPO:O1P	2.27	0.68
20:y:601:CHL:HMC	22:y:617:XAT:H23	1.76	0.68
27:A:801:CL0:H14	21:B:802:CLA:C4A	2.24	0.67
21:A:829:CLA:H202	25:J:102:BCR:H19C	1.76	0.67
3:3:79:LEU:HD13	21:A:813:CLA:H2	1.77	0.67
18:x:21:VAL:HB	20:x:601:CHL:HBC1	1.76	0.67
25:B:846:BCR:H332	23:B:852:LHG:H382	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B:822:CLA:HBB1	25:B:846:BCR:H321	1.77	0.66
3:3:81:LEU:HD13	21:3:601:CLA:H42	1.76	0.66
1:1:172:PHE:HB2	21:1:609:CLA:HMD1	1.77	0.66
21:A:842:CLA:HBC2	29:A:855:PQN:H192	1.77	0.66
18:y:69:ARG:HB3	21:y:610:CLA:HBC3	1.77	0.66
18:y:70:TRP:CE2	20:y:608:CHL:HED2	2.30	0.66
24:z:616:LUT:H391	24:z:616:LUT:H32	1.77	0.66
3:3:170:ARG:NH1	21:3:607:CLA:O1D	2.29	0.66
4:4:82:LEU:HD22	21:4:602:CLA:H42	1.77	0.66
22:x:617:XAT:H15	18:y:127:TRP:CZ2	2.31	0.66
29:A:855:PQN:H172	25:B:801:BCR:H382	1.77	0.66
25:A:853:BCR:HC8	25:A:853:BCR:H311	1.79	0.65
20:y:607:CHL:HHC	20:y:607:CHL:HBB1	1.78	0.65
21:B:805:CLA:H52	21:B:813:CLA:H61	1.78	0.65
10:F:118:ARG:NH2	10:F:121:ASP:OD2	2.29	0.65
21:1:602:CLA:HBB2	22:1:614:XAT:H32	1.78	0.65
22:x:617:XAT:H12	22:x:617:XAT:H191	1.78	0.65
25:J:102:BCR:HC8	25:J:102:BCR:H311	1.77	0.65
24:4:616:LUT:H8	24:4:616:LUT:H171	1.78	0.64
21:A:831:CLA:H13	23:A:846:LHG:H202	1.79	0.64
14:J:32:LEU:HD11	21:J:101:CLA:HBA2	1.79	0.64
25:B:845:BCR:H16C	25:B:845:BCR:H20C	1.78	0.64
20:z:608:CHL:HHC	20:z:608:CHL:HBB1	1.79	0.64
5:A:699:ILE:HA	21:A:841:CLA:HED1	1.80	0.64
25:L:301:BCR:H21C	25:L:301:BCR:H361	1.79	0.63
2:2:221:MET:HE2	21:2:603:CLA:HBB2	1.80	0.63
24:3:613:LUT:H401	24:3:613:LUT:H15	1.79	0.63
21:A:809:CLA:H201	23:A:846:LHG:H211	1.80	0.63
4:4:104:MET:HE1	21:4:609:CLA:HAB	1.81	0.63
18:y:50:LEU:HD13	21:y:602:CLA:H42	1.80	0.63
25:4:618:BCR:H383	25:4:618:BCR:H23C	1.80	0.63
25:L:305:BCR:H321	25:L:305:BCR:HC8	1.79	0.63
20:4:605:CHL:HHC	20:4:605:CHL:HBB1	1.80	0.63
19:z:127:GLN:HE22	20:z:607:CHL:HMC	1.63	0.63
25:B:847:BCR:HC8	25:B:847:BCR:H311	1.81	0.62
31:y:618:NEX:H192	31:y:618:NEX:H183	1.80	0.62
19:z:108:TYR:HH	31:z:618:NEX:H1	1.47	0.62
5:A:508:GLY:HA2	5:A:523:PRO:HB3	1.81	0.62
6:B:450:GLU:OE2	10:F:119:ARG:NH2	2.32	0.62
1:1:135:TRP:HE1	21:1:605:CLA:HBA2	1.63	0.62
6:B:659:THR:HA	21:B:803:CLA:HAB	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:y:70:TRP:CD1	20:y:608:CHL:CED	2.83	0.62
25:K:205:BCR:H321	25:K:205:BCR:HC8	1.81	0.62
21:4:601:CLA:HHC	21:4:601:CLA:HBB1	1.81	0.62
22:x:617:XAT:H15	18:y:127:TRP:HZ2	1.63	0.62
18:y:64:GLU:OE1	21:y:602:CLA:CHB	2.46	0.61
21:B:838:CLA:HMC2	21:B:831:CLA:HBC2	1.82	0.61
21:F:302:CLA:HBA1	14:J:26:LEU:HD21	1.83	0.61
20:y:601:CHL:HMA3	23:y:619:LHG:H122	1.81	0.61
21:z:602:CLA:H43	24:z:615:LUT:H26	1.83	0.61
19:z:23:PRO:HD2	20:z:601:CHL:CBB	2.31	0.61
18:y:79:VAL:HG22	18:y:206:ILE:HD11	1.83	0.61
16:L:90:ASN:HB3	21:L:302:CLA:HAC1	1.81	0.60
24:y:615:LUT:H201	24:y:615:LUT:H35	1.82	0.60
4:4:176:TYR:HE2	20:4:615:CHL:HAA2	1.66	0.60
21:A:842:CLA:HBD	21:A:842:CLA:HBA1	1.83	0.60
21:A:809:CLA:H143	21:A:804:CLA:H18	1.83	0.60
5:A:732:LEU:HA	23:A:846:LHG:H383	1.82	0.60
25:A:851:BCR:H23C	25:A:851:BCR:H403	1.83	0.60
24:1:616:LUT:H391	24:1:616:LUT:H32	1.83	0.60
1:1:73:LEU:HD12	22:1:614:XAT:H221	1.84	0.60
25:B:846:BCR:HC8	25:B:846:BCR:H311	1.83	0.60
18:y:93:GLU:HB3	18:y:98:LYS:HG3	1.83	0.60
6:B:65:LEU:HD11	25:B:845:BCR:H282	1.84	0.60
25:K:205:BCR:H403	25:K:205:BCR:H23C	1.83	0.59
21:y:614:CLA:H61	22:y:617:XAT:H203	1.85	0.59
21:2:604:CLA:HBB2	20:2:605:CHL:C2C	2.32	0.59
20:x:601:CHL:HED3	23:x:619:LHG:H122	1.82	0.59
19:z:65:SER:OG	19:z:180:GLY:HA3	2.01	0.59
1:1:156:ARG:NH1	21:1:608:CLA:O1D	2.29	0.59
18:y:157:PRO:HG2	21:y:610:CLA:OBD	2.02	0.59
21:2:604:CLA:HED2	21:2:604:CLA:H2A	1.85	0.59
18:y:66:ILE:HG22	20:y:609:CHL:HMD2	1.85	0.59
25:G:204:BCR:HC8	25:G:204:BCR:H311	1.85	0.58
18:y:196:VAL:HA	18:y:199:ILE:HG22	1.85	0.58
3:3:186:LEU:HD11	25:3:614:BCR:H343	1.83	0.58
24:3:613:LUT:H161	24:3:613:LUT:H8	1.85	0.58
20:x:609:CHL:HHC	20:x:609:CHL:HBB1	1.85	0.58
21:B:824:CLA:H93	21:B:819:CLA:HBB1	1.85	0.58
24:3:613:LUT:H12	24:3:613:LUT:H191	1.85	0.58
5:A:41:ASP:OD1	5:A:41:ASP:N	2.36	0.58
1:1:97:ALA:CB	22:1:614:XAT:H10	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:95:MET:CE	21:1:609:CLA:HAB	2.33	0.58
25:A:853:BCR:H23C	25:A:853:BCR:H393	1.84	0.58
25:4:618:BCR:HC8	25:4:618:BCR:H321	1.86	0.58
6:B:3:LEU:HD13	6:B:7:ARG:HH11	1.67	0.58
15:K:72:LEU:HD22	21:K:206:CLA:H3A	1.85	0.57
18:y:103:ILE:HG21	18:y:123:ILE:HD12	1.86	0.57
17:O:65:GLY:HA3	22:z:617:XAT:H241	1.86	0.57
21:y:610:CLA:H3A	21:y:610:CLA:H12	1.86	0.57
25:B:844:BCR:H361	25:B:844:BCR:H21C	1.85	0.57
21:A:831:CLA:H172	23:A:846:LHG:H182	1.87	0.57
27:A:801:CL0:H9	21:B:802:CLA:HMB1	1.86	0.57
1:1:168:PRO:HG2	21:1:609:CLA:HMD2	1.87	0.57
2:2:104:GLY:HA2	22:2:617:XAT:H181	1.87	0.57
3:3:211:PHE:HD2	24:3:613:LUT:H41	1.70	0.57
25:A:852:BCR:H403	25:A:852:BCR:H23C	1.86	0.57
21:A:844:CLA:HMB2	21:B:802:CLA:H203	1.86	0.57
24:2:616:LUT:H203	21:2:609:CLA:HAB	1.86	0.57
20:y:601:CHL:HMA2	23:y:619:LHG:H142	1.87	0.57
21:A:802:CLA:H202	21:A:842:CLA:H2	1.86	0.57
18:x:179:LYS:O	18:x:183:ASN:ND2	2.29	0.57
18:y:70:TRP:CH2	31:y:618:NEX:H391	2.40	0.56
17:O:83:LYS:NZ	17:O:91:ASP:OD2	2.39	0.56
1:1:95:MET:SD	1:1:195:GLY:HA2	2.45	0.56
21:1:602:CLA:ND	22:1:614:XAT:H382	2.20	0.56
2:2:183:TYR:HD1	21:2:609:CLA:O1D	1.88	0.56
3:3:61:GLN:O	3:3:64:SER:OG	2.22	0.56
25:A:850:BCR:H311	25:A:850:BCR:HC8	1.86	0.56
21:z:614:CLA:H141	20:z:601:CHL:HMB3	1.86	0.56
21:B:832:CLA:HHC	21:B:832:CLA:HBB1	1.88	0.56
21:1:604:CLA:C1B	22:1:614:XAT:H42	2.36	0.56
21:1:609:CLA:CBB	21:1:609:CLA:HHC	2.35	0.56
21:A:841:CLA:H143	21:F:302:CLA:HBC1	1.86	0.56
6:B:671:TRP:HZ3	21:B:803:CLA:O1D	1.89	0.56
21:z:614:CLA:H141	20:z:601:CHL:CMB	2.35	0.56
21:A:812:CLA:H141	21:A:812:CLA:H203	1.88	0.56
27:A:801:CL0:H14	21:B:802:CLA:NA	2.21	0.56
18:x:169:ASP:OD1	18:x:171:GLU:N	2.39	0.55
5:A:728:THR:HG23	23:A:846:LHG:H341	1.88	0.55
4:4:104:MET:HE1	21:4:609:CLA:HHC	1.88	0.55
21:A:830:CLA:HBD	21:A:830:CLA:HBA1	1.88	0.55
21:A:831:CLA:H152	21:A:842:CLA:HAA2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:213:GLY:O	2:2:217:MET:HG3	2.06	0.55
21:2:612:CLA:C2B	24:2:616:LUT:H373	2.36	0.55
21:2:604:CLA:HBB2	20:2:605:CHL:NC	2.21	0.55
5:A:361:THR:HA	21:A:830:CLA:HBC2	1.88	0.55
13:I:27:LEU:HD22	25:L:305:BCR:H323	1.88	0.55
15:K:48:PHE:HZ	21:K:204:CLA:HBC3	1.72	0.55
18:x:121:GLN:HG3	20:x:608:CHL:HAB	1.89	0.54
5:A:739:TRP:HH2	21:A:809:CLA:HBC2	1.72	0.54
21:B:826:CLA:OBD	21:B:825:CLA:HAA2	2.06	0.54
18:y:126:ILE:HD13	20:y:605:CHL:HAC1	1.89	0.54
24:2:616:LUT:H401	24:2:616:LUT:H15	1.89	0.54
21:2:613:CLA:H2A	21:2:613:CLA:HED2	1.88	0.54
6:B:707:LEU:HD23	30:B:850:DGD:HA21	1.90	0.54
20:y:601:CHL:CMC	22:y:617:XAT:H23	2.37	0.54
5:A:93:ALA:HA	5:A:153:GLU:HG2	1.89	0.54
5:A:288:LEU:HD23	5:A:291:ILE:HD12	1.89	0.54
6:B:57:ILE:HA	21:B:806:CLA:HBC3	1.89	0.54
21:B:830:CLA:HBC2	21:B:823:CLA:HBB1	1.88	0.54
14:J:24:GLY:O	14:J:28:GLU:HG2	2.07	0.54
21:B:806:CLA:H2	21:B:806:CLA:HED3	1.90	0.54
21:A:803:CLA:HMA1	27:A:801:CL0:H63	1.90	0.54
18:x:148:LEU:HG	20:x:605:CHL:HBB1	1.90	0.54
2:2:205:LEU:HB3	21:2:609:CLA:HMA2	1.88	0.54
21:A:842:CLA:HBA2	23:A:846:LHG:H162	1.89	0.54
7:C:62:PHE:HD2	8:D:185:ILE:HG21	1.73	0.54
18:y:98:LYS:HA	20:y:607:CHL:HED2	1.89	0.54
5:A:348:ALA:HB1	25:A:850:BCR:H393	1.88	0.54
21:A:803:CLA:H2	6:B:655:LEU:HD22	1.89	0.54
21:B:825:CLA:H42	21:B:834:CLA:HBB2	1.89	0.54
18:x:91:PHE:HE2	21:x:604:CLA:OBD	1.91	0.54
21:A:802:CLA:H161	21:A:804:CLA:H71	1.90	0.54
5:A:735:ILE:HD12	23:A:846:LHG:H382	1.89	0.53
14:J:10:VAL:HG12	14:J:12:PRO:HD2	1.90	0.53
15:K:108:ALA:O	15:K:112:VAL:HG23	2.08	0.53
1:1:128:TYR:HD1	21:1:604:CLA:HBA1	1.73	0.53
27:A:801:CL0:H72	21:B:802:CLA:HMB2	1.91	0.53
1:1:178:SER:O	1:1:178:SER:OG	2.25	0.53
23:1:615:LHG:H342	23:1:615:LHG:H181	1.90	0.53
4:4:82:LEU:HD21	10:F:202:ILE:HD12	1.91	0.53
6:B:7:ARG:HE	6:B:7:ARG:HA	1.73	0.53
7:C:21:CYS:HG	28:C:101:SF4:FE4	1.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:L:107:VAL:HA	21:L:303:CLA:HED1	1.91	0.53
21:A:824:CLA:HBC2	21:A:825:CLA:HAA2	1.91	0.53
25:B:801:BCR:HC8	25:B:801:BCR:H331	1.91	0.53
21:2:604:CLA:HBB2	20:2:605:CHL:C4C	2.39	0.53
21:B:828:CLA:H171	25:B:845:BCR:H362	1.89	0.53
15:K:101:PHE:CE2	21:K:201:CLA:HMC3	2.44	0.53
18:x:98:LYS:HA	20:x:607:CHL:HED3	1.91	0.53
25:B:849:BCR:H10C	14:J:38:THR:O	2.09	0.53
3:3:109:LEU:HD22	21:3:603:CLA:HBC1	1.90	0.53
20:y:601:CHL:HED2	23:y:619:LHG:H151	1.90	0.53
1:1:227:ASP:OD2	1:1:230:HIS:HB2	2.09	0.52
21:1:609:CLA:HHC	21:1:609:CLA:HBB1	1.91	0.52
21:B:824:CLA:H141	21:B:824:CLA:H193	1.91	0.52
1:1:125:GLN:NE2	1:1:133:VAL:O	2.40	0.52
22:4:617:XAT:H162	22:4:617:XAT:H42	1.92	0.52
25:F:304:BCR:H14C	25:F:304:BCR:H10C	1.90	0.52
25:K:202:BCR:H23C	25:K:202:BCR:H392	1.91	0.52
18:x:211:ASP:O	18:x:219:ASN:ND2	2.41	0.52
20:x:606:CHL:HBA2	31:x:618:NEX:H361	1.92	0.52
18:y:93:GLU:HG3	18:y:102:GLN:HB2	1.92	0.52
19:z:205:LEU:HD13	21:z:614:CLA:HBC2	1.92	0.52
13:I:34:ASN:OD1	13:I:35:LYS:N	2.42	0.52
20:x:601:CHL:H42	20:y:609:CHL:NB	2.25	0.52
5:A:620:ILE:HD11	5:A:624:GLY:HA2	1.90	0.52
21:B:828:CLA:H192	25:B:844:BCR:H352	1.92	0.52
19:z:22:GLY:HA3	20:z:601:CHL:HHC	1.92	0.52
19:z:164:GLU:OE1	19:z:164:GLU:N	2.42	0.52
21:2:604:CLA:H2A	21:2:604:CLA:CED	2.39	0.52
23:B:851:LHG:H261	23:B:851:LHG:H302	1.91	0.52
20:1:601:CHL:O1A	4:4:151:HIS:ND1	2.41	0.52
3:3:120:LEU:HD22	3:3:125:LEU:HD13	1.92	0.52
6:B:422:LEU:HD13	6:B:532:LEU:HA	1.90	0.52
6:B:707:LEU:HD11	30:B:850:DGD:HB81	1.92	0.52
18:y:180:GLU:OE1	21:y:610:CLA:C4A	2.58	0.52
22:z:617:XAT:H10	23:z:619:LHG:H223	1.92	0.52
21:B:822:CLA:HBA1	21:B:822:CLA:HBD	1.92	0.52
6:B:301:ILE:HG21	21:B:824:CLA:HAC1	1.92	0.51
3:3:172:GLN:HB3	3:3:180:MET:HE3	1.91	0.51
21:B:824:CLA:HBA1	21:B:805:CLA:H101	1.92	0.51
21:4:609:CLA:CGA	21:4:609:CLA:H3A	2.39	0.51
5:A:320:LYS:NZ	5:A:324:GLU:OE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:A:830:CLA:HBA1	21:A:830:CLA:CHA	2.40	0.51
3:3:108:MET:HE1	21:3:608:CLA:HHC	1.92	0.51
5:A:296:LEU:O	5:A:300:ILE:HG12	2.11	0.51
6:B:523:ILE:HG21	21:B:836:CLA:HAB	1.92	0.51
18:y:150:GLU:OE1	18:y:150:GLU:N	2.42	0.51
20:z:601:CHL:C1D	23:z:619:LHG:HC82	2.40	0.51
6:B:517:PHE:HE2	25:B:849:BCR:H271	1.76	0.51
29:B:842:PQN:H272	21:B:840:CLA:H11	1.92	0.51
15:K:72:LEU:HB3	21:K:206:CLA:C4A	2.41	0.51
5:A:294:HIS:HB2	21:A:819:CLA:C1B	2.41	0.51
6:B:304:LEU:HA	21:B:822:CLA:HED1	1.92	0.51
24:2:619:LUT:H181	24:2:619:LUT:C8	2.41	0.51
6:B:69:ALA:HB2	6:B:135:LEU:HB2	1.92	0.51
20:z:601:CHL:HAC1	23:z:619:LHG:HC12	1.93	0.51
21:A:803:CLA:C2B	27:A:801:CL0:H64	2.41	0.51
1:1:141:ILE:HD12	21:1:605:CLA:H3A	1.93	0.51
21:2:602:CLA:CGA	21:2:602:CLA:H3A	2.41	0.51
6:B:93:ASP:H	12:H:129:ILE:HD13	1.76	0.51
22:4:617:XAT:H403	21:4:603:CLA:HMB3	1.93	0.50
23:1:615:LHG:H312	23:1:615:LHG:H161	1.94	0.50
5:A:297:ALA:HB1	21:A:818:CLA:HBC2	1.93	0.50
5:A:393:TRP:HD1	21:A:829:CLA:HAB	1.76	0.50
21:H:201:CLA:HMA1	21:L:302:CLA:HAA1	1.93	0.50
21:A:843:CLA:HMD1	25:B:848:BCR:H393	1.94	0.50
18:x:184:GLY:O	18:x:188:MET:HG3	2.10	0.50
18:x:135:GLY:HA2	20:x:609:CHL:HAB	1.92	0.50
19:z:67:TRP:CD1	20:z:609:CHL:HMD3	2.46	0.50
21:A:819:CLA:CGA	21:A:819:CLA:H3A	2.37	0.50
6:B:46:ILE:HG21	21:B:805:CLA:H202	1.94	0.50
18:x:21:VAL:HB	20:x:601:CHL:CBC	2.42	0.50
2:2:56:PHE:CE1	20:2:601:CHL:HED1	2.46	0.50
15:K:101:PHE:CE2	21:K:201:CLA:CMC	2.94	0.50
5:A:502:SER:OG	5:A:507:TRP:HD1	1.95	0.50
21:A:844:CLA:H3A	21:A:844:CLA:O1A	2.11	0.50
6:B:435:GLY:HA3	21:B:833:CLA:HAB	1.94	0.50
25:B:843:BCR:H16C	25:B:843:BCR:H351	1.92	0.50
18:y:70:TRP:HH2	31:y:618:NEX:H391	1.77	0.50
20:1:601:CHL:H11	4:4:152:TYR:HB2	1.94	0.50
1:1:190:LYS:HD3	21:1:611:CLA:HAA2	1.93	0.49
21:A:820:CLA:H91	21:A:820:CLA:H151	1.94	0.49
21:B:806:CLA:HAB	21:B:828:CLA:HBB1	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:B:808:CLA:O1A	21:B:827:CLA:HBD	2.12	0.49
20:x:607:CHL:HAA1	22:z:617:XAT:H172	1.94	0.49
18:y:111:TYR:HB2	18:y:118:VAL:HG22	1.94	0.49
19:z:73:LEU:HG	21:z:604:CLA:HBC2	1.94	0.49
21:A:803:CLA:ND	27:A:801:CL0:H39	2.27	0.49
21:A:818:CLA:H51	15:K:122:LEU:HD13	1.94	0.49
18:x:83:LEU:HD13	18:x:206:ILE:HD13	1.94	0.49
21:A:820:CLA:H91	21:A:820:CLA:H172	1.94	0.49
25:A:853:BCR:H343	14:J:27:ILE:HG21	1.94	0.49
15:K:72:LEU:HD22	21:K:206:CLA:C3A	2.42	0.49
21:A:802:CLA:H51	6:B:431:PHE:HE1	1.77	0.49
25:B:801:BCR:H312	21:B:832:CLA:CBB	2.43	0.49
15:K:69:ARG:HG2	21:K:201:CLA:HAC1	1.95	0.49
21:x:614:CLA:HBA2	18:y:124:LEU:HD11	1.92	0.49
18:y:176:LEU:HD22	21:y:610:CLA:H43	1.93	0.49
21:B:805:CLA:H61	21:B:805:CLA:H93	1.61	0.49
21:B:803:CLA:H3A	21:B:803:CLA:O2A	2.12	0.49
24:3:613:LUT:H373	21:3:609:CLA:C2B	2.42	0.49
6:B:547:MET:HE2	6:B:550:LYS:HA	1.95	0.49
20:y:601:CHL:HAC1	23:y:619:LHG:HC11	1.94	0.49
21:2:604:CLA:CBB	21:2:604:CLA:HHC	2.43	0.49
25:A:853:BCR:H332	14:J:31:ARG:HD3	1.95	0.49
6:B:464:GLN:NE2	21:B:836:CLA:OBD	2.40	0.49
20:z:609:CHL:H3A	20:z:609:CHL:HBA1	1.55	0.49
21:A:806:CLA:HBA1	21:A:806:CLA:H3A	1.50	0.49
18:x:96:TRP:CH2	20:x:607:CHL:H41	2.47	0.49
1:1:187:LEU:HD13	21:1:609:CLA:HAA2	1.93	0.49
2:2:205:LEU:HB3	21:2:609:CLA:CMA	2.43	0.49
21:B:809:CLA:H41	21:B:809:CLA:H61	1.52	0.49
21:A:824:CLA:CAB	21:A:845:CLA:HBB1	2.43	0.48
6:B:174:ARG:HB2	21:B:813:CLA:HBC2	1.94	0.48
1:1:64:GLY:HA3	1:1:192:ILE:HG21	1.95	0.48
2:2:121:ASN:OD1	2:2:121:ASN:N	2.45	0.48
20:2:615:CHL:HHC	20:2:615:CHL:HBB1	1.94	0.48
21:F:301:CLA:H62	21:F:301:CLA:H41	1.63	0.48
19:z:66:ARG:NH2	20:z:608:CHL:OBD	2.44	0.48
6:B:307:ALA:HB3	21:B:822:CLA:HED3	1.95	0.48
5:A:479:VAL:HG21	21:O:201:CLA:H43	1.96	0.48
21:B:838:CLA:HHC	21:B:838:CLA:HBB1	1.95	0.48
21:y:604:CLA:CHA	21:y:604:CLA:HBA1	2.43	0.48
2:2:63:GLU:H	2:2:63:GLU:CD	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:y:610:CLA:H71	21:y:612:CLA:HMA3	1.95	0.48
21:A:835:CLA:H93	21:A:835:CLA:H111	1.73	0.48
25:L:301:BCR:H361	25:L:301:BCR:C21	2.42	0.48
8:D:90:VAL:HG12	8:D:91:GLU:HG3	1.95	0.48
18:y:208:ASN:HB3	21:y:614:CLA:O1D	2.12	0.48
5:A:305:ALA:HB2	21:A:822:CLA:HBC2	1.95	0.48
5:A:317:HIS:HB3	5:A:322:ILE:HD11	1.96	0.48
21:F:302:CLA:HAA2	14:J:22:LEU:HD11	1.95	0.48
25:L:305:BCR:H402	25:L:305:BCR:H23C	1.94	0.48
22:4:617:XAT:H373	22:4:617:XAT:H23	1.50	0.48
5:A:717:LEU:HB3	5:A:721:GLN:HG2	1.96	0.48
21:A:823:CLA:HAA2	15:K:80:ALA:CB	2.44	0.48
21:B:818:CLA:H62	21:B:818:CLA:H41	1.72	0.48
21:K:204:CLA:H3A	21:K:204:CLA:HBA2	1.66	0.48
21:A:812:CLA:H172	21:A:812:CLA:H13	1.49	0.47
25:B:801:BCR:HC21	21:F:302:CLA:H51	1.96	0.47
21:B:818:CLA:HBB1	21:B:818:CLA:HMB1	1.96	0.47
21:L:302:CLA:HHC	21:L:302:CLA:HBB1	1.96	0.47
21:3:609:CLA:H3A	21:3:609:CLA:HBA2	1.43	0.47
21:A:827:CLA:HAA2	21:A:828:CLA:OBD	2.15	0.47
16:L:128:THR:HG22	16:L:129:ALA:H	1.80	0.47
20:x:601:CHL:HMD2	23:x:619:LHG:H241	1.97	0.47
18:y:203:LYS:HB3	18:y:207:GLU:CD	2.39	0.47
15:K:72:LEU:HD13	21:K:206:CLA:H3A	1.96	0.47
18:y:189:PHE:CG	23:y:619:LHG:H281	2.47	0.47
1:1:135:TRP:NE1	21:1:605:CLA:HBA2	2.29	0.47
4:4:170:ASP:OD1	4:4:173:PHE:N	2.39	0.47
21:B:805:CLA:H61	21:B:805:CLA:H2	1.60	0.47
18:y:182:LYS:HE3	21:y:611:CLA:C3D	2.44	0.47
21:z:614:CLA:HBA1	21:z:614:CLA:H3A	1.48	0.47
21:3:612:CLA:O2D	21:3:612:CLA:H2A	2.15	0.47
4:4:151:HIS:HA	21:4:608:CLA:HAB	1.96	0.47
21:A:802:CLA:H202	21:A:802:CLA:H162	1.65	0.47
21:A:823:CLA:HAA2	15:K:80:ALA:HB3	1.96	0.47
6:B:25:ILE:HD11	25:L:305:BCR:H312	1.97	0.47
21:L:303:CLA:HMA3	25:L:306:BCR:H373	1.97	0.47
21:x:610:CLA:HBA2	21:x:610:CLA:H3A	1.50	0.47
21:y:614:CLA:HBD	21:y:614:CLA:HBA1	1.95	0.47
25:A:851:BCR:H351	25:A:851:BCR:C16	2.39	0.47
6:B:205:GLU:OE1	6:B:205:GLU:HA	2.15	0.47
16:L:87:TYR:OH	21:L:303:CLA:O1A	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1:615:LHG:H301	23:1:615:LHG:H152	1.95	0.47
3:3:96:LEU:HD13	21:3:601:CLA:H12	1.97	0.47
21:4:614:CLA:CED	21:4:614:CLA:H2A	2.44	0.47
21:A:845:CLA:H2A	21:A:845:CLA:O2D	2.14	0.47
21:B:841:CLA:H121	21:B:841:CLA:H161	1.47	0.47
20:z:601:CHL:HBA1	20:z:601:CHL:H3A	1.69	0.47
23:z:619:LHG:H241	23:z:619:LHG:HC61	1.34	0.47
2:2:228:ILE:HG22	2:2:229:TYR:HD1	1.80	0.47
2:2:194:TRP:CE3	21:2:609:CLA:H11	2.50	0.46
6:B:516:ASP:OD2	6:B:593:TYR:OH	2.22	0.46
15:K:101:PHE:HE2	21:K:201:CLA:CMC	2.27	0.46
18:y:51:SER:O	18:y:51:SER:OG	2.32	0.46
2:2:195:GLY:HA3	21:2:609:CLA:HED3	1.96	0.46
21:A:804:CLA:HBA2	21:A:804:CLA:CBD	2.43	0.46
6:B:373:THR:HG23	6:B:591:THR:HG21	1.96	0.46
10:F:199:ARG:HE	10:F:199:ARG:HB2	1.54	0.46
20:x:609:CHL:HBB1	20:z:601:CHL:H52	1.96	0.46
21:y:602:CLA:H3A	21:y:602:CLA:HBA2	1.34	0.46
23:z:619:LHG:H321	23:z:619:LHG:H101	1.97	0.46
21:B:834:CLA:H3A	21:B:834:CLA:HBA1	1.57	0.46
20:x:601:CHL:H2	20:x:601:CHL:H61	1.69	0.46
6:B:517:PHE:CE2	25:B:849:BCR:H271	2.50	0.46
21:B:824:CLA:H62	21:B:824:CLA:H41	1.50	0.46
25:B:843:BCR:H383	25:B:843:BCR:H23C	1.97	0.46
4:4:116:PHE:O	4:4:120:GLY:N	2.29	0.46
21:A:812:CLA:H91	21:A:812:CLA:H111	1.67	0.46
2:2:217:MET:HE1	21:2:602:CLA:HAB	1.98	0.46
3:3:167:GLU:OE1	3:3:170:ARG:NH2	2.49	0.46
5:A:739:TRP:CH2	21:A:809:CLA:HBC2	2.50	0.46
25:K:202:BCR:H24C	25:K:202:BCR:H371	1.69	0.46
18:x:151:ALA:HB2	20:x:605:CHL:HBC1	1.98	0.46
21:z:613:CLA:C2B	24:z:616:LUT:H373	2.46	0.46
21:A:810:CLA:HBB1	21:A:829:CLA:H203	1.97	0.46
21:B:827:CLA:H111	21:B:827:CLA:H152	1.39	0.46
21:x:602:CLA:H92	21:x:602:CLA:H61	1.65	0.46
21:y:610:CLA:H3A	21:y:610:CLA:HBA2	1.41	0.46
20:y:606:CHL:C3C	21:y:604:CLA:HMA2	2.45	0.46
5:A:447:PHE:O	21:A:835:CLA:HBB2	2.16	0.46
6:B:704:GLN:HG3	30:B:850:DGD:HA22	1.98	0.46
21:B:802:CLA:H161	21:B:802:CLA:H121	1.73	0.46
18:y:173:PHE:HZ	21:y:610:CLA:HED2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:202:PHE:CD2	22:1:614:XAT:H14	2.51	0.46
4:4:101:ARG:NH2	20:4:607:CHL:OBD	2.47	0.46
18:x:24:LEU:HD12	20:x:601:CHL:HBB	1.98	0.46
18:y:156:TYR:HB3	21:y:610:CLA:HED2	1.96	0.46
21:y:603:CLA:HBA1	21:y:602:CLA:H62	1.97	0.46
23:1:615:LHG:C10	25:4:618:BCR:H281	2.46	0.46
5:A:331:THR:OG1	23:A:847:LHG:HC12	2.16	0.46
21:A:803:CLA:HMA3	27:A:801:CL0:H43	1.98	0.46
21:A:820:CLA:H3A	21:A:820:CLA:HBA2	1.32	0.46
6:B:61:THR:HB	6:B:142:LEU:HD13	1.98	0.46
6:B:657:TRP:CD2	21:B:802:CLA:HMA2	2.51	0.46
20:x:609:CHL:C4B	20:z:601:CHL:H2	2.46	0.46
20:3:606:CHL:HBA1	21:3:608:CLA:HBC1	1.98	0.45
21:B:808:CLA:H141	21:B:808:CLA:H162	1.63	0.45
21:B:840:CLA:H111	21:B:840:CLA:H151	1.78	0.45
19:z:126:VAL:HG11	20:z:606:CHL:HED2	1.98	0.45
22:1:614:XAT:H242	22:1:614:XAT:H362	1.97	0.45
2:2:81:SER:O	2:2:81:SER:OG	2.26	0.45
2:2:104:GLY:HA3	22:2:617:XAT:H192	1.97	0.45
3:3:182:LYS:HE2	3:3:182:LYS:HB2	1.68	0.45
21:A:833:CLA:H41	21:A:833:CLA:H61	1.46	0.45
6:B:268:LEU:HB2	6:B:273:MET:HE2	1.97	0.45
25:B:801:BCR:H383	25:B:801:BCR:H23C	1.97	0.45
23:B:851:LHG:HC41	23:B:851:LHG:HC31	1.98	0.45
1:1:73:LEU:O	23:B:851:LHG:O1	2.25	0.45
3:3:90:PHE:HB2	21:3:602:CLA:H43	1.97	0.45
2:2:174:ASN:HD22	20:2:615:CHL:CHA	2.30	0.45
21:2:602:CLA:H111	21:2:602:CLA:H152	1.78	0.45
27:A:801:CL0:H47	27:A:801:CL0:H51	1.69	0.45
21:A:833:CLA:HBB1	21:A:833:CLA:HMB3	1.99	0.45
21:B:817:CLA:CGA	21:B:817:CLA:H3A	2.45	0.45
21:A:818:CLA:H92	21:A:818:CLA:H61	1.79	0.45
21:A:835:CLA:H202	21:A:835:CLA:H161	1.71	0.45
15:K:57:MET:HG3	21:K:204:CLA:HAC2	1.99	0.45
22:z:617:XAT:H15	22:z:617:XAT:H201	1.85	0.45
21:A:807:CLA:H161	21:A:807:CLA:H121	1.74	0.45
6:B:548:PRO:HD2	7:C:62:PHE:CZ	2.52	0.45
21:B:828:CLA:H202	25:B:845:BCR:H362	1.98	0.45
2:2:190:ASP:OD1	21:2:609:CLA:C2	2.65	0.45
3:3:223:LEU:O	3:3:227:LYS:HG3	2.17	0.45
21:A:818:CLA:H142	21:A:818:CLA:H112	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:A:820:CLA:H62	21:A:820:CLA:H92	1.63	0.45
21:B:828:CLA:H122	25:B:845:BCR:H372	1.99	0.45
12:H:83:ASN:ND2	21:H:201:CLA:HAC2	2.32	0.45
18:x:191:MET:HE2	24:x:615:LUT:H30	1.99	0.45
24:y:616:LUT:H31	24:y:616:LUT:H391	1.86	0.45
23:2:618:LHG:HC91	25:3:614:BCR:HC41	1.98	0.45
21:4:609:CLA:H3A	21:4:609:CLA:O1A	2.17	0.45
21:A:829:CLA:H112	21:A:829:CLA:H142	1.73	0.45
21:A:802:CLA:HBA1	21:A:802:CLA:H3A	1.30	0.45
21:B:820:CLA:H3A	21:B:820:CLA:HBA2	1.34	0.45
21:B:828:CLA:H3A	21:B:828:CLA:HBA2	1.30	0.45
21:B:805:CLA:HBA1	21:B:805:CLA:H3A	1.42	0.45
14:J:11:ALA:O	14:J:15:SER:OG	2.29	0.45
25:K:202:BCR:H20C	25:K:202:BCR:H361	1.79	0.45
25:L:301:BCR:H15C	25:L:301:BCR:H351	1.68	0.45
1:1:97:ALA:HB2	22:1:614:XAT:H10	1.98	0.45
1:1:184:LEU:O	1:1:188:LYS:HG3	2.17	0.45
3:3:106:PHE:CE1	21:3:607:CLA:HBC3	2.52	0.45
24:3:613:LUT:H191	24:3:613:LUT:C12	2.46	0.45
21:B:824:CLA:H91	21:B:824:CLA:H112	1.78	0.45
25:K:205:BCR:H24C	25:K:205:BCR:H371	1.77	0.45
21:x:613:CLA:H91	21:x:613:CLA:H112	1.69	0.45
21:A:803:CLA:HBA1	21:A:803:CLA:H3A	1.54	0.45
6:B:671:TRP:CZ3	21:B:803:CLA:O1D	2.70	0.45
29:B:842:PQN:H161	29:B:842:PQN:H141	1.78	0.45
25:B:843:BCR:H331	25:B:843:BCR:HC7	1.72	0.45
15:K:96:GLY:O	21:K:201:CLA:H3A	2.16	0.45
4:4:175:GLN:C	4:4:176:TYR:HD1	2.24	0.44
25:B:846:BCR:H11C	25:B:846:BCR:H341	1.80	0.44
12:H:116:THR:HG21	13:I:14:LEU:HD13	1.98	0.44
17:O:56:TRP:H	17:O:56:TRP:CD1	2.35	0.44
17:O:92:SER:O	17:O:96:GLU:HG2	2.17	0.44
4:4:176:TYR:CE2	20:4:615:CHL:HBD	2.52	0.44
21:A:805:CLA:H3A	21:A:805:CLA:HBA2	1.57	0.44
21:A:841:CLA:H62	21:A:841:CLA:H41	1.68	0.44
25:B:843:BCR:H372	25:G:204:BCR:HC21	1.99	0.44
19:z:189:GLY:O	19:z:193:GLN:HG3	2.18	0.44
19:z:190:PHE:CE1	24:z:616:LUT:H363	2.52	0.44
21:z:613:CLA:HMB1	21:z:613:CLA:HBB1	1.98	0.44
24:2:616:LUT:H31	24:2:616:LUT:H391	1.77	0.44
4:4:148:ILE:HD13	4:4:148:ILE:HA	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:A:826:CLA:H202	21:A:826:CLA:H161	1.78	0.44
20:y:609:CHL:HBA1	20:y:609:CHL:H3A	1.42	0.44
19:z:185:PHE:CD2	23:z:619:LHG:H281	2.53	0.44
21:4:612:CLA:H91	21:4:612:CLA:H111	1.73	0.44
21:A:812:CLA:H92	21:A:812:CLA:H62	1.69	0.44
18:y:156:TYR:CD1	21:y:610:CLA:O1D	2.60	0.44
1:1:128:TYR:CD1	21:1:604:CLA:HBA1	2.53	0.44
20:1:601:CHL:HBB1	20:1:601:CHL:CHC	2.44	0.44
2:2:80:LEU:HD13	21:2:602:CLA:H71	1.99	0.44
5:A:201:GLY:O	5:A:205:LEU:HB2	2.18	0.44
5:A:386:SER:HB3	21:A:829:CLA:HMA1	2.00	0.44
5:A:502:SER:HG	5:A:507:TRP:HD1	1.65	0.44
25:A:850:BCR:H331	25:A:850:BCR:HC7	1.76	0.44
25:B:843:BCR:H311	25:B:843:BCR:HC8	1.99	0.44
2:2:174:ASN:HD22	20:2:615:CHL:C4D	2.29	0.44
20:y:607:CHL:HBA1	20:y:607:CHL:H3A	1.46	0.44
21:z:604:CLA:HMB1	21:z:604:CLA:HBB1	2.00	0.44
2:2:195:GLY:CA	21:2:609:CLA:HAA1	2.48	0.44
21:2:602:CLA:H41	21:2:602:CLA:H62	1.39	0.44
25:A:851:BCR:H24C	25:A:851:BCR:H371	1.57	0.44
5:A:676:PHE:CD2	25:A:852:BCR:H363	2.53	0.44
21:A:838:CLA:HBA2	21:A:839:CLA:HAA1	2.00	0.44
21:G:201:CLA:H3A	21:G:201:CLA:HBA2	1.56	0.44
31:y:618:NEX:H15	31:y:618:NEX:H201	1.84	0.44
21:A:843:CLA:H91	21:A:843:CLA:H111	1.73	0.44
6:B:498:LEU:HA	6:B:501:ILE:HG22	1.99	0.44
25:B:801:BCR:H312	21:B:832:CLA:HBB2	2.00	0.44
21:B:837:CLA:H3A	21:B:837:CLA:HBA2	1.75	0.44
25:B:844:BCR:H24C	25:B:844:BCR:H371	1.75	0.44
15:K:72:LEU:HD22	21:K:206:CLA:C2A	2.48	0.44
1:1:179:LYS:H	1:1:179:LYS:HD3	1.83	0.43
21:3:607:CLA:HBA1	21:3:607:CLA:H3A	1.57	0.43
21:B:823:CLA:HBA1	21:B:823:CLA:H3A	1.73	0.43
25:B:844:BCR:H382	25:B:844:BCR:H23C	2.00	0.43
7:C:61:ASP:OD2	9:E:94:SER:OG	2.29	0.43
21:F:302:CLA:H11	21:F:302:CLA:H52	1.74	0.43
18:y:193:GLY:O	18:y:197:GLN:HB3	2.17	0.43
21:A:841:CLA:HBA2	21:A:841:CLA:H3A	1.43	0.43
6:B:277:HIS:HA	6:B:280:ILE:HG12	1.99	0.43
25:K:202:BCR:H11C	25:K:202:BCR:H341	1.82	0.43
16:L:153:TYR:HB2	25:L:305:BCR:H361	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:195:SER:O	3:3:195:SER:OG	2.32	0.43
6:B:25:ILE:HG21	30:B:850:DGD:HA72	2.00	0.43
6:B:583:MET:O	6:B:587:ILE:HG12	2.18	0.43
21:B:830:CLA:HBA1	21:B:830:CLA:H3A	1.84	0.43
21:H:201:CLA:HAA2	25:L:306:BCR:H342	1.99	0.43
18:x:133:LEU:O	18:x:137:VAL:HG13	2.18	0.43
18:y:109:LEU:HD13	20:y:606:CHL:HMD3	2.00	0.43
23:1:615:LHG:H132	23:1:615:LHG:H291	2.00	0.43
23:1:615:LHG:H281	23:1:615:LHG:H311	1.60	0.43
21:2:612:CLA:H112	21:2:612:CLA:H71	1.61	0.43
5:A:68:ARG:HG2	5:A:182:ALA:HB1	2.00	0.43
6:B:432:HIS:CB	25:B:849:BCR:H402	2.44	0.43
21:B:826:CLA:H142	21:B:826:CLA:H111	1.89	0.43
21:B:814:CLA:H121	25:B:845:BCR:H363	2.01	0.43
25:B:845:BCR:H11C	25:B:845:BCR:H341	1.89	0.43
25:J:102:BCR:H11C	25:J:102:BCR:H341	1.83	0.43
1:1:184:LEU:HD11	21:1:609:CLA:O2D	2.19	0.43
2:2:250:ILE:HD11	21:2:612:CLA:H42	2.00	0.43
6:B:276:HIS:HB2	21:B:817:CLA:C1B	2.48	0.43
21:B:809:CLA:H91	21:B:809:CLA:H112	1.81	0.43
18:y:45:TRP:CE2	24:y:616:LUT:H163	2.54	0.43
19:z:125:ALA:O	19:z:128:VAL:HG12	2.19	0.43
20:1:601:CHL:H43	23:1:615:LHG:H171	2.00	0.43
21:A:829:CLA:H143	21:A:829:CLA:H161	1.70	0.43
21:B:808:CLA:HAB	21:B:809:CLA:HAA2	2.01	0.43
21:B:811:CLA:H61	21:B:811:CLA:H41	1.83	0.43
18:x:68:SER:HB2	18:x:184:GLY:HA3	1.99	0.43
18:x:134:MET:HA	18:x:137:VAL:HG22	2.01	0.43
18:y:45:TRP:CZ2	24:y:616:LUT:H163	2.54	0.43
5:A:503:THR:HG21	21:A:828:CLA:HAB	2.00	0.43
21:A:823:CLA:C1D	25:K:202:BCR:H402	2.48	0.43
21:B:822:CLA:H111	21:B:822:CLA:H91	1.81	0.43
21:B:818:CLA:H3A	21:B:818:CLA:HBA2	1.44	0.43
10:F:128:LEU:HD21	14:J:38:THR:HG21	1.99	0.43
19:z:100:ILE:HG21	19:z:120:ILE:HD13	2.01	0.43
6:B:106:ARG:HG3	6:B:115:ILE:HD11	2.01	0.43
6:B:450:GLU:OE1	10:F:88:GLN:NE2	2.49	0.43
21:B:803:CLA:H93	21:B:803:CLA:H61	1.82	0.43
17:O:73:ALA:HB3	17:O:74:PRO:HD3	2.00	0.43
25:O:204:BCR:H11C	25:O:204:BCR:H341	1.94	0.43
18:x:24:LEU:HD12	20:x:601:CHL:CHB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:x:127:TRP:O	18:x:131:VAL:HG13	2.19	0.43
19:z:77:PHE:HA	19:z:80:ILE:HG22	2.01	0.43
20:2:606:CHL:HHC	20:2:606:CHL:HBB1	1.99	0.43
5:A:364:VAL:HG22	21:A:820:CLA:H42	1.99	0.43
21:A:811:CLA:H202	21:A:806:CLA:H201	2.01	0.43
6:B:22:TRP:CG	6:B:704:GLN:HE22	2.37	0.43
21:B:814:CLA:H93	21:B:814:CLA:H111	1.86	0.43
21:B:839:CLA:H161	21:B:839:CLA:H141	1.67	0.43
18:x:24:LEU:HD11	20:x:601:CHL:HMB1	2.01	0.43
21:z:602:CLA:H161	21:z:602:CLA:H141	1.63	0.43
1:1:111:ASN:OD1	1:1:111:ASN:C	2.62	0.43
24:1:616:LUT:H201	24:1:616:LUT:H15	1.87	0.43
2:2:139:THR:O	2:2:143:VAL:HG23	2.18	0.43
2:2:155:ARG:NH1	21:2:608:CLA:O1D	2.47	0.43
21:3:601:CLA:H143	21:3:601:CLA:H112	1.77	0.43
25:A:853:BCR:HC7	25:A:853:BCR:H331	1.89	0.43
21:B:822:CLA:H2	21:B:821:CLA:H3A	2.01	0.43
25:B:801:BCR:H341	25:B:801:BCR:C12	2.35	0.43
18:y:173:PHE:CZ	21:y:610:CLA:HED2	2.53	0.43
24:y:616:LUT:H171	24:y:616:LUT:H8	2.00	0.43
24:2:619:LUT:H401	24:2:619:LUT:H35	1.81	0.42
5:A:90:PHE:CG	21:A:808:CLA:HBC3	2.54	0.42
21:A:812:CLA:H193	21:A:812:CLA:H161	1.90	0.42
21:A:826:CLA:H93	21:A:826:CLA:H111	1.71	0.42
21:A:818:CLA:H112	21:A:818:CLA:H93	1.77	0.42
21:A:804:CLA:H91	21:A:804:CLA:H111	1.62	0.42
20:y:601:CHL:H62	20:y:601:CHL:H41	1.80	0.42
2:2:100:TRP:CZ2	21:2:608:CLA:HBC3	2.54	0.42
25:3:614:BCR:H20C	25:3:614:BCR:H361	1.93	0.42
21:A:804:CLA:H101	21:A:804:CLA:H61	1.44	0.42
21:A:822:CLA:H141	21:A:822:CLA:H162	1.85	0.42
21:A:845:CLA:HBA2	17:O:126:THR:HG23	2.01	0.42
15:K:49:ILE:O	15:K:54:ASN:ND2	2.50	0.42
24:x:616:LUT:H31	24:x:616:LUT:H391	1.73	0.42
20:y:601:CHL:HHC	22:y:617:XAT:H371	1.99	0.42
24:3:613:LUT:H373	21:3:609:CLA:C3B	2.48	0.42
25:A:848:BCR:H11C	25:A:848:BCR:H341	1.91	0.42
25:B:801:BCR:H15C	25:B:801:BCR:H351	1.87	0.42
21:B:814:CLA:H41	21:B:814:CLA:H62	1.48	0.42
21:x:610:CLA:H3A	21:x:610:CLA:CGA	2.42	0.42
20:x:601:CHL:HBA1	20:x:601:CHL:H3A	1.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:z:164:GLU:N	19:z:164:GLU:CD	2.77	0.42
21:2:602:CLA:H162	21:2:602:CLA:H192	1.74	0.42
3:3:265:ASN:ND2	21:3:610:CLA:O1D	2.48	0.42
4:4:104:MET:HE1	21:4:609:CLA:CAB	2.48	0.42
5:A:389:THR:HG23	5:A:605:ILE:HG21	2.00	0.42
5:A:743:LEU:HD23	5:A:743:LEU:HA	1.89	0.42
21:A:830:CLA:H41	21:A:830:CLA:H62	1.52	0.42
21:A:842:CLA:H161	21:A:842:CLA:H141	1.68	0.42
21:A:835:CLA:H61	21:A:835:CLA:H2	1.76	0.42
21:B:811:CLA:H61	21:B:811:CLA:H92	1.79	0.42
25:B:847:BCR:H11C	25:B:847:BCR:H341	1.88	0.42
25:B:849:BCR:HC21	10:F:126:TYR:OH	2.20	0.42
1:1:52:GLU:HG3	1:1:53:PRO:HD2	2.02	0.42
21:3:601:CLA:H8	21:3:601:CLA:H51	1.37	0.42
6:B:3:LEU:HB3	6:B:7:ARG:NH1	2.34	0.42
6:B:373:THR:HB	21:B:827:CLA:HMB2	2.02	0.42
21:G:201:CLA:O2D	21:G:201:CLA:H2A	2.19	0.42
13:I:33:LYS:HD2	13:I:35:LYS:HE3	2.02	0.42
25:K:205:BCR:C8	21:K:204:CLA:HED2	2.50	0.42
16:L:87:TYR:OH	21:L:302:CLA:HBB2	2.19	0.42
25:L:305:BCR:H361	25:L:305:BCR:H20C	1.88	0.42
18:x:196:VAL:HB	21:x:613:CLA:HBC3	2.00	0.42
20:x:607:CHL:HBB1	20:x:607:CHL:CHC	2.43	0.42
18:y:206:ILE:HG23	18:y:209:LEU:HD21	2.02	0.42
24:y:615:LUT:H31	24:y:615:LUT:H391	1.85	0.42
19:z:151:LEU:HD12	19:z:151:LEU:HA	1.87	0.42
21:1:607:CLA:H3A	21:1:607:CLA:HBA2	1.25	0.42
2:2:195:GLY:HA3	21:2:609:CLA:HAA1	2.00	0.42
21:4:609:CLA:CGA	21:4:609:CLA:C3A	2.98	0.42
21:y:603:CLA:O1D	20:y:609:CHL:H51	2.19	0.42
22:1:614:XAT:H15	22:1:614:XAT:H201	1.87	0.42
25:B:846:BCR:H15C	25:B:846:BCR:H351	1.83	0.42
25:G:204:BCR:HC7	25:G:204:BCR:H331	1.88	0.42
25:I:101:BCR:H11C	25:I:101:BCR:H341	1.93	0.42
21:x:610:CLA:H41	21:x:610:CLA:H62	1.55	0.42
21:z:613:CLA:C3B	24:z:616:LUT:H373	2.50	0.42
20:2:605:CHL:HAA1	24:2:619:LUT:H361	2.01	0.42
25:3:614:BCR:H11C	25:3:614:BCR:H341	1.92	0.42
25:4:618:BCR:H15C	25:4:618:BCR:H351	1.87	0.42
5:A:360:LEU:HD11	21:A:820:CLA:H8	2.01	0.42
6:B:182:LEU:HD21	21:B:813:CLA:O1A	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B:322:LEU:HD23	6:B:322:LEU:HA	1.93	0.42
21:B:825:CLA:H111	21:B:825:CLA:H142	1.67	0.42
21:B:832:CLA:H61	25:F:304:BCR:HC22	2.01	0.42
25:G:204:BCR:H20C	25:G:204:BCR:H361	1.89	0.42
19:z:186:SER:HB2	24:z:616:LUT:H371	2.02	0.42
21:2:602:CLA:H111	21:2:602:CLA:H91	1.77	0.42
4:4:150:PHE:HE2	20:4:605:CHL:HHB	1.85	0.42
5:A:637:SER:O	5:A:643:GLY:HA3	2.20	0.42
21:A:830:CLA:H11	21:A:830:CLA:HBA2	1.56	0.42
25:J:102:BCR:H15C	25:J:102:BCR:H351	1.83	0.42
18:x:72:MET:HE3	21:x:610:CLA:HAB	2.00	0.42
21:z:614:CLA:HBC1	24:z:616:LUT:H382	2.02	0.42
21:2:604:CLA:HBA1	21:2:604:CLA:H3A	1.90	0.42
21:2:611:CLA:H3A	24:2:616:LUT:H202	2.02	0.42
21:A:803:CLA:CHA	27:A:801:CL0:H40	2.50	0.42
21:A:804:CLA:H191	21:A:844:CLA:H203	2.02	0.42
21:A:819:CLA:H91	21:A:819:CLA:H111	1.73	0.42
25:A:850:BCR:H11C	25:A:850:BCR:H341	1.85	0.42
21:B:824:CLA:H112	21:B:824:CLA:H142	1.80	0.42
21:B:802:CLA:H3A	21:B:802:CLA:HBA1	1.30	0.42
9:E:89:ILE:HG22	9:E:91:ARG:H	1.85	0.42
19:z:216:ASN:ND2	21:z:614:CLA:HED1	2.34	0.42
21:z:602:CLA:CHB	21:z:602:CLA:H42	2.50	0.42
23:1:615:LHG:O1	25:4:618:BCR:H291	2.19	0.41
6:B:338:LEU:HD22	6:B:382:ILE:HG23	2.02	0.41
21:B:832:CLA:HHC	21:B:832:CLA:CBB	2.50	0.41
21:H:201:CLA:H13	21:H:201:CLA:H91	2.02	0.41
16:L:203:THR:HB	25:L:306:BCR:H333	2.02	0.41
5:A:379:THR:HG21	5:A:515:VAL:HB	2.03	0.41
25:A:851:BCR:H342	25:A:851:BCR:HC7	1.85	0.41
6:B:571:SER:OG	6:B:574:ASP:OD2	2.26	0.41
10:F:70:SER:O	10:F:70:SER:OG	2.20	0.41
21:F:302:CLA:O1D	21:F:302:CLA:H2A	2.20	0.41
1:1:76:VAL:HB	1:1:79:ASN:HB2	2.01	0.41
4:4:102:TRP:CZ2	21:4:608:CLA:HBC3	2.55	0.41
5:A:155:GLN:HB3	21:A:815:CLA:O2A	2.20	0.41
21:A:829:CLA:H111	21:A:829:CLA:H72	1.51	0.41
25:B:844:BCR:H361	25:B:844:BCR:C21	2.48	0.41
30:B:850:DGD:HBT2	30:B:850:DGD:HBH1	1.71	0.41
18:y:196:VAL:HG11	21:y:614:CLA:HAC2	2.01	0.41
22:y:617:XAT:H191	22:y:617:XAT:H11	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:z:615:LUT:H31	24:z:615:LUT:H391	1.93	0.41
21:4:601:CLA:HHC	21:4:601:CLA:CBB	2.48	0.41
6:B:689:ASN:OD1	6:B:689:ASN:N	2.53	0.41
10:F:160:ILE:HG21	21:F:302:CLA:HMA2	2.01	0.41
14:J:26:LEU:HD13	25:J:102:BCR:H403	2.02	0.41
18:x:125:ALA:O	18:x:129:THR:HG23	2.21	0.41
24:x:616:LUT:H23	21:x:610:CLA:O1A	2.20	0.41
20:x:605:CHL:H3A	20:x:605:CHL:HBA2	1.67	0.41
31:x:618:NEX:H35	31:x:618:NEX:H401	1.80	0.41
20:y:608:CHL:H3A	20:y:608:CHL:HBA2	1.71	0.41
24:z:616:LUT:H11	24:z:616:LUT:H191	1.89	0.41
22:4:617:XAT:H11	22:4:617:XAT:H191	1.97	0.41
6:B:54:LEU:HD12	21:B:813:CLA:HED1	2.03	0.41
6:B:436:LEU:HD12	25:B:849:BCR:H272	2.01	0.41
9:E:109:ASP:HA	9:E:110:PRO:HD3	1.94	0.41
14:J:26:LEU:HD23	14:J:26:LEU:HA	1.77	0.41
25:O:204:BCR:H20C	25:O:204:BCR:H361	1.92	0.41
1:1:69:ASP:HA	22:1:614:XAT:O23	2.21	0.41
24:2:619:LUT:H31	24:2:619:LUT:H391	1.87	0.41
21:3:603:CLA:H3A	21:3:603:CLA:HBA1	1.29	0.41
21:A:812:CLA:H191	21:A:809:CLA:H203	2.03	0.41
21:A:830:CLA:HBA1	21:A:830:CLA:CBD	2.50	0.41
21:A:806:CLA:H93	21:A:806:CLA:H112	1.77	0.41
25:A:851:BCR:C8	25:A:851:BCR:H331	2.49	0.41
6:B:469:LYS:NZ	6:B:509:PHE:O	2.51	0.41
15:K:101:PHE:HE2	21:K:201:CLA:HMC3	1.81	0.41
23:1:615:LHG:H331	23:1:615:LHG:H302	1.81	0.41
21:3:609:CLA:H2A	21:3:609:CLA:O1D	2.21	0.41
4:4:191:ASN:OD1	24:4:616:LUT:O23	2.36	0.41
21:4:602:CLA:H3A	21:4:602:CLA:CGA	2.50	0.41
21:A:811:CLA:H2A	21:A:811:CLA:HED2	2.01	0.41
21:A:826:CLA:H92	21:A:826:CLA:H61	1.82	0.41
25:A:848:BCR:H403	25:A:848:BCR:C23	2.47	0.41
6:B:545:LYS:NZ	9:E:95:TYR:O	2.37	0.41
21:B:828:CLA:H172	25:B:844:BCR:H352	2.03	0.41
21:B:813:CLA:H51	21:B:813:CLA:H8	1.83	0.41
24:1:616:LUT:H11	24:1:616:LUT:H191	1.85	0.41
24:3:613:LUT:H31	24:3:613:LUT:H391	1.78	0.41
5:A:194:MET:HB2	21:A:814:CLA:HBC2	2.03	0.41
21:A:802:CLA:H91	21:A:802:CLA:H112	1.80	0.41
21:A:825:CLA:HBA2	21:A:825:CLA:H3A	1.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:z:55:ALA:O	19:z:59:GLU:HG3	2.20	0.41
1:1:85:GLU:O	1:1:89:ILE:HG12	2.21	0.41
1:1:178:SER:HA	1:1:184:LEU:HD13	2.01	0.41
1:1:190:LYS:O	1:1:194:ASN:ND2	2.43	0.41
2:2:222:GLY:O	2:2:226:GLN:HG3	2.21	0.41
3:3:265:ASN:OD1	3:3:266:VAL:N	2.54	0.41
6:B:347:LEU:HD23	21:B:818:CLA:H71	2.03	0.41
21:B:828:CLA:H62	21:B:828:CLA:H2	1.79	0.41
25:B:845:BCR:H21C	25:B:845:BCR:H24C	1.75	0.41
10:F:85:GLU:HB2	10:F:120:PHE:CD2	2.56	0.41
11:G:72:THR:HG23	11:G:136:GLY:HA2	2.03	0.41
12:H:136:PRO:HA	12:H:137:PRO:HD3	1.94	0.41
25:L:306:BCR:H11C	25:L:306:BCR:H341	1.75	0.41
18:x:181:LEU:HD12	18:x:181:LEU:HA	1.88	0.41
21:x:603:CLA:HBA1	21:x:603:CLA:H3A	1.79	0.41
18:y:53:ASP:HA	18:y:54:PRO:HD3	1.98	0.41
18:y:70:TRP:CG	20:y:608:CHL:HED2	2.52	0.41
21:y:603:CLA:HBC1	20:y:609:CHL:HBC2	2.03	0.41
19:z:77:PHE:HB3	19:z:78:PRO:HD3	2.03	0.41
19:z:116:HIS:HB3	20:z:605:CHL:C1B	2.51	0.41
21:z:610:CLA:CGA	21:z:610:CLA:H3A	2.50	0.41
21:2:602:CLA:H62	21:2:602:CLA:H102	1.86	0.41
3:3:248:VAL:HG21	3:3:252:GLN:HG2	2.03	0.41
5:A:118:ILE:HG12	25:A:853:BCR:H333	2.03	0.41
21:A:818:CLA:H62	21:A:818:CLA:H41	1.77	0.41
21:A:804:CLA:H143	25:A:853:BCR:H19C	2.02	0.41
25:L:305:BCR:H24C	25:L:305:BCR:H371	1.80	0.41
20:x:607:CHL:HBA1	20:x:607:CHL:H3A	1.88	0.41
19:z:135:GLU:OE1	19:z:138:ARG:NH1	2.45	0.41
24:z:616:LUT:H391	24:z:616:LUT:C32	2.42	0.41
20:1:601:CHL:HHC	23:1:615:LHG:H272	2.04	0.40
21:1:607:CLA:HAA1	21:1:609:CLA:CAC	2.52	0.40
21:3:605:CLA:H2A	21:3:605:CLA:O1D	2.21	0.40
21:B:814:CLA:H141	21:B:814:CLA:H162	1.82	0.40
10:F:203:TRP:CD1	10:F:204:PRO:HD3	2.56	0.40
18:y:126:ILE:HD13	18:y:126:ILE:HA	1.93	0.40
18:y:215:ASP:O	18:y:219:ASN:HB2	2.21	0.40
20:y:607:CHL:HBB1	20:y:607:CHL:CHC	2.50	0.40
1:1:182:LYS:HE3	1:1:182:LYS:HB3	1.98	0.40
2:2:100:TRP:CE2	21:2:608:CLA:HBC3	2.56	0.40
3:3:108:MET:HE1	21:3:608:CLA:HAB	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:A:813:CLA:HBA2	21:A:813:CLA:H3A	1.75	0.40
21:A:807:CLA:H143	21:A:807:CLA:H111	1.71	0.40
21:B:806:CLA:HBB1	21:B:805:CLA:H11	2.03	0.40
21:B:824:CLA:H191	21:B:819:CLA:HBC2	2.03	0.40
25:K:205:BCR:H11C	25:K:205:BCR:H341	1.84	0.40
16:L:92:PRO:HA	16:L:95:ARG:HG3	2.04	0.40
21:y:614:CLA:H112	21:y:614:CLA:H91	1.81	0.40
19:z:23:PRO:HD2	20:z:601:CHL:HBB2	2.02	0.40
19:z:64:HIS:ND1	20:z:609:CHL:OBD	2.54	0.40
20:z:605:CHL:H2A	20:z:605:CHL:O1D	2.21	0.40
2:2:238:LEU:HD13	21:2:613:CLA:HBC2	2.04	0.40
5:A:14:VAL:HG12	5:A:183:PRO:HA	2.04	0.40
27:A:801:CL0:H48	27:A:801:CL0:H54	1.80	0.40
10:F:203:TRP:CG	10:F:204:PRO:HD3	2.56	0.40
31:x:618:NEX:H15	31:x:618:NEX:H201	1.92	0.40
21:A:806:CLA:H192	25:A:849:BCR:H363	2.03	0.40
25:A:853:BCR:H351	25:A:853:BCR:H15C	1.82	0.40
25:B:843:BCR:H11C	25:B:843:BCR:H341	1.79	0.40
20:x:601:CHL:HED3	23:x:619:LHG:C12	2.51	0.40
24:y:616:LUT:H35	24:y:616:LUT:H401	1.86	0.40
22:2:617:XAT:H401	22:2:617:XAT:C15	2.41	0.40
23:2:618:LHG:HC62	23:2:618:LHG:H242	1.74	0.40
6:B:120:VAL:HG21	21:B:808:CLA:HED1	2.04	0.40
18:x:174:ALA:HA	18:x:177:LYS:HE2	2.03	0.40
20:x:606:CHL:HMC	20:x:607:CHL:NC	2.37	0.40
18:y:114:ASN:HB3	18:y:117:LEU:CD2	2.51	0.40
19:z:209:LEU:HD23	19:z:209:LEU:HA	1.91	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	191/241 (79%)	190 (100%)	1 (0%)	0	100	100
2	2	199/257 (77%)	196 (98%)	3 (2%)	0	100	100
3	3	216/273 (79%)	214 (99%)	2 (1%)	0	100	100
4	4	194/251 (77%)	190 (98%)	4 (2%)	0	100	100
5	A	735/750 (98%)	723 (98%)	12 (2%)	0	100	100
6	B	730/734 (100%)	718 (98%)	12 (2%)	0	100	100
7	C	78/81 (96%)	74 (95%)	4 (5%)	0	100	100
8	D	141/204 (69%)	137 (97%)	4 (3%)	0	100	100
9	E	62/143 (43%)	61 (98%)	1 (2%)	0	100	100
10	F	150/221 (68%)	148 (99%)	2 (1%)	0	100	100
11	G	89/160 (56%)	88 (99%)	1 (1%)	0	100	100
12	H	88/145 (61%)	88 (100%)	0	0	100	100
13	I	29/37 (78%)	29 (100%)	0	0	100	100
14	J	39/44 (89%)	37 (95%)	2 (5%)	0	100	100
15	K	82/130 (63%)	81 (99%)	1 (1%)	0	100	100
16	L	158/219 (72%)	156 (99%)	2 (1%)	0	100	100
17	O	84/140 (60%)	83 (99%)	1 (1%)	0	100	100
18	x	217/267 (81%)	212 (98%)	5 (2%)	0	100	100
18	y	217/267 (81%)	209 (96%)	8 (4%)	0	100	100
19	z	224/265 (84%)	211 (94%)	13 (6%)	0	100	100
All	All	3923/4829 (81%)	3845 (98%)	78 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	1	153/190 (80%)	152 (99%)	1 (1%)	76	91

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	2	163/205 (80%)	162 (99%)	1 (1%)	78	92
3	3	167/211 (79%)	166 (99%)	1 (1%)	78	92
4	4	163/210 (78%)	163 (100%)	0	100	100
5	A	598/610 (98%)	598 (100%)	0	100	100
6	B	599/600 (100%)	597 (100%)	2 (0%)	86	95
7	C	70/71 (99%)	69 (99%)	1 (1%)	59	85
8	D	121/170 (71%)	120 (99%)	1 (1%)	73	90
9	E	57/114 (50%)	57 (100%)	0	100	100
10	F	125/185 (68%)	125 (100%)	0	100	100
11	G	77/133 (58%)	76 (99%)	1 (1%)	61	86
12	H	75/113 (66%)	75 (100%)	0	100	100
13	I	27/33 (82%)	27 (100%)	0	100	100
14	J	36/39 (92%)	36 (100%)	0	100	100
15	K	61/95 (64%)	61 (100%)	0	100	100
16	L	126/174 (72%)	126 (100%)	0	100	100
17	O	72/114 (63%)	72 (100%)	0	100	100
18	x	167/201 (83%)	167 (100%)	0	100	100
18	y	167/201 (83%)	166 (99%)	1 (1%)	78	92
19	z	179/208 (86%)	178 (99%)	1 (1%)	78	92
All	All	3203/3877 (83%)	3193 (100%)	10 (0%)	84	95

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

Mol	Chain	Res	Type
1	1	149	ILE
2	2	130	GLU
3	3	226	VAL
6	B	65	LEU
6	B	294	ASN
7	C	18	VAL
8	D	118	GLU
11	G	98	GLU
18	y	152	GLU
19	z	139	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (27) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	131	ASN
1	1	230	HIS
2	2	212	ASN
2	2	237	ASN
3	3	252	GLN
3	3	263	ASN
4	4	194	ASN
5	A	213	HIS
5	A	307	HIS
5	A	335	HIS
5	A	349	GLN
5	A	421	ASN
6	B	53	GLN
6	B	89	HIS
6	B	114	ASN
6	B	229	GLN
6	B	289	HIS
6	B	389	HIS
6	B	439	HIS
6	B	502	ASN
7	C	38	GLN
10	F	87	GLN
18	y	102	GLN
18	y	208	ASN
19	z	27	ASN
19	z	113	ASN
19	z	127	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond

length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
19	TPO	z	3	19	8,10,11	1.10	0	10,14,16	2.13	2 (20%)

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
19	TPO	z	3	19	-	1/9/11/13	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
19	z	3	TPO	P-OG1-CB	-5.95	107.17	123.33
19	z	3	TPO	CG2-CB-CA	-2.14	109.09	113.26

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
19	z	3	TPO	O-C-CA-CB

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
19	z	3	TPO	1	0

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

263 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
20	CHL	x	605	-	47,61,74	3.72	19 (40%)	41,98,114	2.49	13 (31%)
21	CLA	B	832	-	69,73,73	1.16	9 (13%)	82,113,113	1.27	4 (4%)
21	CLA	A	825	-	59,63,73	1.25	8 (13%)	70,101,113	1.34	6 (8%)
21	CLA	B	802	-	69,73,73	1.16	8 (11%)	82,113,113	1.32	8 (9%)
21	CLA	3	609	-	57,62,73	1.29	9 (15%)	67,100,113	1.37	6 (8%)
21	CLA	G	203	11	49,53,73	1.36	7 (14%)	58,89,113	1.46	5 (8%)
21	CLA	x	603	-	64,68,73	1.19	8 (12%)	76,107,113	1.35	8 (10%)
20	CHL	2	601	2	41,55,74	3.92	18 (43%)	35,91,114	3.23	13 (37%)
21	CLA	A	823	-	46,50,73	1.37	9 (19%)	53,85,113	1.48	4 (7%)
27	CL0	A	801	-	54,69,73	2.81	16 (29%)	54,107,113	3.36	16 (29%)
25	BCR	A	849	-	41,41,41	1.39	8 (19%)	56,56,56	1.98	14 (25%)
21	CLA	B	823	-	49,53,73	1.39	9 (18%)	58,89,113	1.40	4 (6%)
21	CLA	z	612	-	49,53,73	1.37	9 (18%)	58,89,113	1.43	5 (8%)
21	CLA	A	841	-	69,73,73	1.13	9 (13%)	82,113,113	1.31	9 (10%)
21	CLA	2	612	2	69,73,73	1.15	9 (13%)	82,113,113	1.30	7 (8%)
25	BCR	K	205	-	41,41,41	1.39	8 (19%)	56,56,56	1.95	16 (28%)
21	CLA	1	611	-	49,53,73	1.39	9 (18%)	58,89,113	1.40	4 (6%)
21	CLA	A	840	-	56,60,73	1.29	7 (12%)	65,97,113	1.40	6 (9%)
21	CLA	B	807	-	56,60,73	1.26	8 (14%)	65,97,113	1.45	6 (9%)
24	LUT	y	615	-	42,43,43	1.28	7 (16%)	51,60,60	2.15	15 (29%)
24	LUT	x	616	-	42,43,43	1.30	8 (19%)	51,60,60	1.78	11 (21%)
20	CHL	x	608	18	36,50,74	4.25	18 (50%)	29,85,114	2.56	11 (37%)
21	CLA	A	817	-	49,53,73	1.39	8 (16%)	58,89,113	1.43	4 (6%)
21	CLA	H	201	12	64,68,73	1.21	9 (14%)	76,107,113	1.29	4 (5%)
20	CHL	x	601	18	47,61,74	3.93	19 (40%)	41,98,114	2.05	14 (34%)
21	CLA	2	609	-	51,55,73	1.33	9 (17%)	60,91,113	1.44	4 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	z	614	-	69,73,73	1.16	9 (13%)	82,113,113	1.33	5 (6%)
25	BCR	K	202	-	41,41,41	1.40	8 (19%)	56,56,56	1.99	15 (26%)
20	CHL	2	605	-	36,50,74	3.94	18 (50%)	31,85,114	2.69	13 (41%)
20	CHL	y	606	-	40,54,74	4.14	19 (47%)	34,90,114	2.55	10 (29%)
21	CLA	A	844	-	69,73,73	1.17	9 (13%)	82,113,113	1.33	5 (6%)
21	CLA	G	201	-	49,53,73	1.40	8 (16%)	58,89,113	1.46	5 (8%)
20	CHL	y	607	-	47,61,74	3.75	19 (40%)	41,98,114	2.62	15 (36%)
21	CLA	A	833	-	60,64,73	1.24	8 (13%)	71,102,113	1.35	7 (9%)
21	CLA	B	836	-	54,58,73	1.30	9 (16%)	64,95,113	3.35	9 (14%)
23	LHG	1	615	21	48,48,48	0.94	2 (4%)	51,54,54	1.05	3 (5%)
21	CLA	2	603	-	47,52,73	1.40	9 (19%)	55,88,113	1.54	7 (12%)
21	CLA	3	602	-	59,63,73	1.26	9 (15%)	70,101,113	1.33	5 (7%)
25	BCR	A	853	-	41,41,41	1.41	8 (19%)	56,56,56	1.74	14 (25%)
25	BCR	B	847	-	41,41,41	1.41	8 (19%)	56,56,56	1.46	8 (14%)
25	BCR	L	305	-	41,41,41	1.42	8 (19%)	56,56,56	1.72	15 (26%)
21	CLA	3	611	-	40,44,73	1.49	9 (22%)	49,77,113	1.49	5 (10%)
21	CLA	L	303	-	69,73,73	1.14	9 (13%)	82,113,113	1.36	7 (8%)
21	CLA	A	806	-	69,73,73	1.16	9 (13%)	82,113,113	1.30	7 (8%)
20	CHL	4	607	-	40,54,74	4.02	19 (47%)	34,90,114	2.73	12 (35%)
21	CLA	4	604	-	47,51,73	1.52	9 (19%)	58,87,113	1.47	6 (10%)
21	CLA	G	202	-	46,50,73	1.39	9 (19%)	53,85,113	1.44	4 (7%)
20	CHL	y	605	18	36,50,74	4.34	17 (47%)	29,85,114	2.35	11 (37%)
21	CLA	A	820	-	69,73,73	1.15	9 (13%)	82,113,113	1.35	7 (8%)
25	BCR	A	851	-	41,41,41	1.44	8 (19%)	56,56,56	2.64	20 (35%)
21	CLA	B	816	-	59,63,73	1.24	9 (15%)	70,101,113	1.44	6 (8%)
22	XAT	1	614	-	41,47,47	0.85	2 (4%)	54,74,74	3.09	19 (35%)
21	CLA	1	604	-	53,57,73	1.32	9 (16%)	61,93,113	1.50	6 (9%)
25	BCR	I	101	-	41,41,41	1.40	8 (19%)	56,56,56	1.44	9 (16%)
23	LHG	A	846	-	48,48,48	0.28	0	51,54,54	0.35	0
21	CLA	B	839	-	69,73,73	1.15	8 (11%)	82,113,113	1.28	5 (6%)
20	CHL	4	605	-	35,49,74	4.01	17 (48%)	30,84,114	2.53	14 (46%)
21	CLA	2	602	2	69,73,73	1.16	9 (13%)	82,113,113	1.28	6 (7%)
21	CLA	x	611	23	49,53,73	1.37	9 (18%)	58,89,113	1.45	5 (8%)
21	CLA	A	815	-	49,53,73	1.35	8 (16%)	58,89,113	1.52	5 (8%)
20	CHL	x	609	18	40,54,74	4.04	19 (47%)	34,90,114	2.71	13 (38%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	B	827	-	69,73,73	1.15	8 (11%)	82,113,113	1.30	6 (7%)
21	CLA	2	611	-	48,52,73	1.42	8 (16%)	57,88,113	1.45	5 (8%)
21	CLA	O	203	-	41,46,73	1.58	10 (24%)	51,81,113	1.55	7 (13%)
20	CHL	x	607	-	47,61,74	3.89	20 (42%)	41,98,114	2.39	14 (34%)
21	CLA	2	608	-	49,53,73	1.36	9 (18%)	58,89,113	1.43	5 (8%)
21	CLA	z	613	19	69,73,73	1.15	9 (13%)	82,113,113	1.33	6 (7%)
21	CLA	A	802	-	69,73,73	1.16	9 (13%)	82,113,113	1.40	9 (10%)
21	CLA	z	603	-	61,65,73	1.22	9 (14%)	72,103,113	1.39	6 (8%)
22	XAT	2	617	-	41,47,47	1.33	8 (19%)	54,74,74	2.12	16 (29%)
25	BCR	J	102	-	41,41,41	1.39	8 (19%)	56,56,56	1.68	13 (23%)
21	CLA	3	604	-	44,49,73	1.42	9 (20%)	50,84,113	1.44	4 (8%)
21	CLA	A	830	-	69,73,73	1.16	9 (13%)	82,113,113	1.44	10 (12%)
21	CLA	4	601	4	50,54,73	1.35	9 (18%)	59,90,113	1.41	4 (6%)
21	CLA	1	603	-	58,62,73	1.27	9 (15%)	68,99,113	1.36	5 (7%)
28	SF4	C	102	7	0,12,12	-	-	-	-	-
21	CLA	B	829	-	60,64,73	1.24	9 (15%)	71,102,113	1.39	7 (9%)
21	CLA	A	816	-	46,50,73	1.37	9 (19%)	53,85,113	1.48	4 (7%)
21	CLA	A	814	-	69,73,73	1.17	9 (13%)	82,113,113	1.28	5 (6%)
21	CLA	B	826	-	66,70,73	1.17	9 (13%)	78,109,113	1.33	6 (7%)
21	CLA	y	603	-	57,61,73	1.27	9 (15%)	67,98,113	1.40	6 (8%)
21	CLA	A	839	-	59,63,73	1.23	9 (15%)	70,101,113	1.40	7 (10%)
21	CLA	A	805	21	56,60,73	1.28	9 (16%)	65,97,113	1.42	7 (10%)
21	CLA	F	302	-	55,59,73	1.31	8 (14%)	64,96,113	1.49	6 (9%)
21	CLA	B	805	-	69,73,73	1.16	8 (11%)	82,113,113	1.32	6 (7%)
24	LUT	z	615	-	42,43,43	1.32	8 (19%)	51,60,60	1.67	10 (19%)
21	CLA	3	612	-	43,48,73	1.41	8 (18%)	51,83,113	1.59	5 (9%)
25	BCR	4	618	-	41,41,41	1.39	8 (19%)	56,56,56	1.63	11 (19%)
21	CLA	A	818	-	64,68,73	1.20	9 (14%)	76,107,113	5.01	8 (10%)
21	CLA	A	803	-	69,73,73	1.16	8 (11%)	82,113,113	1.30	4 (4%)
21	CLA	1	609	-	46,50,73	1.38	8 (17%)	54,85,113	1.73	8 (14%)
21	CLA	2	610	23	40,45,73	2.55	11 (27%)	46,76,113	1.33	6 (13%)
21	CLA	A	804	-	69,73,73	1.15	9 (13%)	82,113,113	1.43	8 (9%)
21	CLA	B	841	23	69,73,73	1.16	8 (11%)	82,113,113	1.28	6 (7%)
21	CLA	B	819	-	59,63,73	1.25	8 (13%)	70,101,113	1.42	7 (10%)
21	CLA	L	302	16	49,53,73	1.38	9 (18%)	58,89,113	1.49	5 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	A	822	-	69,73,73	1.16	9 (13%)	82,113,113	1.31	5 (6%)
21	CLA	A	845	23	54,58,73	1.32	9 (16%)	64,95,113	1.48	7 (10%)
21	CLA	B	803	-	69,73,73	1.15	9 (13%)	82,113,113	1.34	6 (7%)
30	DGD	B	850	-	67,67,67	0.84	2 (2%)	81,81,81	0.98	4 (4%)
20	CHL	2	607	-	45,59,74	3.80	19 (42%)	40,96,114	2.61	15 (37%)
21	CLA	4	609	4	58,62,73	1.25	9 (15%)	68,99,113	1.36	7 (10%)
21	CLA	A	834	-	69,73,73	1.15	9 (13%)	82,113,113	1.30	6 (7%)
23	LHG	x	619	21	48,48,48	0.29	0	51,54,54	0.34	0
25	BCR	B	843	-	41,41,41	1.39	8 (19%)	56,56,56	2.00	14 (25%)
21	CLA	J	101	-	55,59,73	1.31	8 (14%)	64,96,113	1.39	5 (7%)
25	BCR	B	801	-	41,41,41	1.43	8 (19%)	56,56,56	1.77	14 (25%)
20	CHL	2	615	2	37,51,74	4.24	18 (48%)	30,86,114	2.44	9 (30%)
20	CHL	1	606	-	35,49,74	4.48	17 (48%)	28,84,114	1.72	10 (35%)
21	CLA	A	811	-	69,73,73	1.16	7 (10%)	82,113,113	1.28	6 (7%)
21	CLA	4	610	-	46,50,73	1.39	9 (19%)	53,85,113	1.41	4 (7%)
21	CLA	x	614	-	49,53,73	1.38	8 (16%)	58,89,113	1.45	4 (6%)
25	BCR	L	306	-	41,41,41	1.39	8 (19%)	56,56,56	1.96	16 (28%)
25	BCR	B	844	-	41,41,41	1.40	8 (19%)	56,56,56	1.79	13 (23%)
22	XAT	4	617	-	41,47,47	5.32	25 (60%)	54,74,74	5.09	38 (70%)
20	CHL	4	606	-	35,49,74	3.91	16 (45%)	33,84,114	2.77	12 (36%)
25	BCR	B	845	-	41,41,41	1.41	8 (19%)	56,56,56	1.84	14 (25%)
25	BCR	G	204	-	41,41,41	1.39	8 (19%)	56,56,56	1.60	12 (21%)
21	CLA	A	835	-	69,73,73	1.15	9 (13%)	82,113,113	1.39	7 (8%)
21	CLA	A	824	-	45,49,73	1.39	8 (17%)	54,84,113	1.55	7 (12%)
21	CLA	A	832	-	54,58,73	1.30	9 (16%)	64,95,113	1.44	6 (9%)
21	CLA	B	811	-	58,62,73	1.34	10 (17%)	71,100,113	1.45	6 (8%)
31	NEX	y	618	-	40,46,46	1.22	6 (15%)	50,70,70	1.56	9 (18%)
21	CLA	A	842	-	69,73,73	1.15	8 (11%)	82,113,113	1.41	10 (12%)
25	BCR	B	849	-	41,41,41	1.40	8 (19%)	56,56,56	1.87	13 (23%)
23	LHG	2	618	21	36,36,48	0.32	0	39,42,54	0.51	0
25	BCR	A	848	-	41,41,41	1.39	8 (19%)	56,56,56	1.62	12 (21%)
24	LUT	x	615	-	42,43,43	1.31	8 (19%)	51,60,60	1.53	12 (23%)
21	CLA	2	613	-	47,51,73	1.38	9 (19%)	55,86,113	1.42	5 (9%)
20	CHL	4	615	4	36,49,74	4.20	16 (44%)	30,84,114	2.09	8 (26%)
21	CLA	B	814	-	69,73,73	1.14	8 (11%)	82,113,113	1.34	7 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	x	610	-	69,73,73	1.15	9 (13%)	82,113,113	1.24	6 (7%)
21	CLA	3	603	-	49,53,73	1.39	7 (14%)	58,89,113	1.43	6 (10%)
21	CLA	z	611	-	49,53,73	1.37	9 (18%)	58,89,113	1.46	4 (6%)
23	LHG	y	619	-	48,48,48	0.29	0	51,54,54	0.36	0
21	CLA	4	613	-	49,53,73	1.37	9 (18%)	58,89,113	1.68	5 (8%)
21	CLA	B	818	-	64,68,73	1.19	9 (14%)	76,107,113	1.36	9 (11%)
21	CLA	y	604	-	55,59,73	1.28	8 (14%)	64,96,113	1.45	8 (12%)
21	CLA	z	610	-	49,53,73	1.37	9 (18%)	58,89,113	1.46	4 (6%)
21	CLA	A	831	-	69,73,73	1.15	9 (13%)	82,113,113	1.30	5 (6%)
21	CLA	B	837	-	69,73,73	1.15	8 (11%)	82,113,113	1.34	6 (7%)
21	CLA	B	833	-	49,53,73	1.36	9 (18%)	58,89,113	1.56	7 (12%)
20	CHL	x	606	-	40,54,74	4.01	19 (47%)	34,90,114	2.56	12 (35%)
23	LHG	A	847	21	29,29,48	0.35	0	32,35,54	0.49	0
21	CLA	y	610	18	62,66,73	1.22	8 (12%)	73,104,113	1.34	6 (8%)
20	CHL	z	606	-	40,54,74	4.15	19 (47%)	34,90,114	2.15	10 (29%)
21	CLA	1	607	-	47,52,73	1.40	8 (17%)	55,88,113	1.48	4 (7%)
21	CLA	B	809	6	69,73,73	1.15	8 (11%)	82,113,113	1.32	7 (8%)
20	CHL	z	607	-	46,60,74	3.80	19 (41%)	40,97,114	2.83	16 (40%)
28	SF4	C	101	7	0,12,12	-	-	-	-	-
23	LHG	B	851	21	37,37,48	0.31	0	40,43,54	0.52	0
21	CLA	A	813	-	58,62,73	1.27	9 (15%)	68,99,113	1.40	6 (8%)
21	CLA	z	602	-	69,73,73	1.15	9 (13%)	82,113,113	1.36	8 (9%)
20	CHL	y	608	-	43,57,74	3.94	19 (44%)	37,93,114	2.09	11 (29%)
21	CLA	A	812	21	69,73,73	1.16	8 (11%)	82,113,113	1.27	4 (4%)
21	CLA	B	806	6	69,73,73	1.14	9 (13%)	82,113,113	1.28	7 (8%)
21	CLA	B	835	-	46,50,73	1.40	8 (17%)	53,85,113	1.43	4 (7%)
20	CHL	y	601	18	47,61,74	3.90	19 (40%)	41,98,114	2.16	13 (31%)
21	CLA	A	838	-	55,59,73	1.28	9 (16%)	64,96,113	1.40	7 (10%)
21	CLA	B	820	-	54,58,73	1.29	9 (16%)	64,95,113	1.46	8 (12%)
21	CLA	B	815	-	47,51,73	1.35	9 (19%)	55,86,113	1.50	6 (10%)
21	CLA	B	825	-	66,70,73	1.16	8 (12%)	78,109,113	1.38	10 (12%)
21	CLA	A	836	-	49,53,73	1.37	9 (18%)	58,89,113	1.48	4 (6%)
20	CHL	z	609	-	47,61,74	4.00	20 (42%)	41,98,114	2.20	13 (31%)
22	XAT	y	617	-	41,47,47	1.28	8 (19%)	54,74,74	1.95	15 (27%)
21	CLA	F	301	-	61,65,73	1.24	8 (13%)	72,103,113	1.31	5 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	x	604	-	56,60,73	1.29	9 (16%)	65,97,113	1.43	7 (10%)
25	BCR	L	301	-	41,41,41	1.41	8 (19%)	56,56,56	2.23	12 (21%)
21	CLA	y	613	-	49,53,73	1.37	8 (16%)	58,89,113	1.48	4 (6%)
21	CLA	A	828	-	69,73,73	1.15	9 (13%)	82,113,113	1.30	6 (7%)
29	PQN	B	842	-	34,34,34	0.44	0	43,45,45	0.56	1 (2%)
21	CLA	3	605	-	45,49,73	1.50	10 (22%)	54,84,113	1.53	6 (11%)
20	CHL	2	606	-	37,51,74	4.17	18 (48%)	30,86,114	2.87	12 (40%)
21	CLA	B	828	-	69,73,73	1.16	9 (13%)	82,113,113	1.27	5 (6%)
21	CLA	K	203	-	49,53,73	1.36	9 (18%)	58,89,113	1.58	8 (13%)
21	CLA	z	604	-	55,59,73	1.30	9 (16%)	64,96,113	1.44	8 (12%)
25	BCR	A	852	-	41,41,41	1.41	9 (21%)	56,56,56	1.89	15 (26%)
21	CLA	B	810	-	69,73,73	1.15	9 (13%)	82,113,113	1.31	7 (8%)
20	CHL	3	606	-	38,53,74	3.81	18 (47%)	36,89,114	2.48	11 (30%)
21	CLA	B	804	-	45,49,73	1.39	9 (20%)	54,84,113	1.56	7 (12%)
21	CLA	F	303	10	45,49,73	1.42	8 (17%)	54,84,113	1.49	5 (9%)
21	CLA	4	608	4	49,53,73	1.38	8 (16%)	58,89,113	1.45	4 (6%)
24	LUT	2	616	-	42,43,43	1.30	8 (19%)	51,60,60	2.12	15 (29%)
21	CLA	x	602	-	69,73,73	1.16	9 (13%)	82,113,113	1.35	6 (7%)
24	LUT	3	613	-	42,43,43	1.31	8 (19%)	51,60,60	2.01	17 (33%)
21	CLA	O	201	-	69,73,73	1.18	8 (11%)	82,113,113	1.25	5 (6%)
23	LHG	B	852	-	48,48,48	0.28	0	51,54,54	0.35	0
24	LUT	4	616	-	42,43,43	1.28	8 (19%)	51,60,60	1.50	10 (19%)
21	CLA	x	612	-	49,53,73	1.36	9 (18%)	58,89,113	1.43	4 (6%)
31	NEX	z	618	-	40,46,46	1.23	6 (15%)	50,70,70	1.53	9 (18%)
21	CLA	B	821	-	51,55,73	1.33	8 (15%)	60,91,113	1.54	8 (13%)
21	CLA	y	611	-	49,53,73	1.37	8 (16%)	58,89,113	1.44	4 (6%)
21	CLA	B	812	-	47,51,73	1.37	9 (19%)	55,86,113	1.44	4 (7%)
21	CLA	K	201	15	41,45,73	1.46	10 (24%)	50,78,113	1.51	4 (8%)
21	CLA	A	808	-	54,58,73	1.31	8 (14%)	64,95,113	1.42	6 (9%)
21	CLA	y	612	-	49,53,73	1.38	9 (18%)	58,89,113	1.44	4 (6%)
25	BCR	A	850	-	41,41,41	1.43	8 (19%)	56,56,56	1.88	10 (17%)
24	LUT	2	619	-	42,43,43	1.30	8 (19%)	51,60,60	1.88	13 (25%)
20	CHL	y	609	18	47,61,74	4.01	20 (42%)	41,98,114	2.22	11 (26%)
21	CLA	A	829	-	69,73,73	1.16	8 (11%)	82,113,113	1.27	5 (6%)
21	CLA	A	843	-	69,73,73	1.14	9 (13%)	82,113,113	1.31	4 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	1	608	1	44,48,73	1.51	10 (22%)	55,83,113	1.53	8 (14%)
21	CLA	A	810	5	54,58,73	1.31	8 (14%)	64,95,113	1.59	9 (14%)
28	SF4	A	854	5,6	0,12,12	-	-	-		
21	CLA	1	605	-	50,54,73	1.37	9 (18%)	59,90,113	1.43	4 (6%)
21	CLA	1	612	-	50,54,73	1.36	9 (18%)	59,90,113	1.55	5 (8%)
20	CHL	z	605	-	36,50,74	4.31	17 (47%)	29,85,114	2.73	11 (37%)
21	CLA	A	826	-	69,73,73	1.16	9 (13%)	82,113,113	1.30	5 (6%)
21	CLA	B	840	-	69,73,73	1.16	8 (11%)	82,113,113	1.28	6 (7%)
21	CLA	y	602	18	69,73,73	1.15	9 (13%)	82,113,113	1.30	6 (7%)
23	LHG	z	619	-	48,48,48	0.29	0	51,54,54	0.38	0
21	CLA	1	610	23	41,46,73	1.59	10 (24%)	51,81,113	1.53	7 (13%)
21	CLA	K	206	15	42,47,73	1.46	8 (19%)	48,81,113	1.50	5 (10%)
22	XAT	x	617	-	41,47,47	1.28	8 (19%)	54,74,74	2.00	14 (25%)
21	CLA	B	824	-	69,73,73	1.16	9 (13%)	82,113,113	1.33	6 (7%)
21	CLA	3	607	-	49,53,73	1.38	9 (18%)	58,89,113	1.45	5 (8%)
24	LUT	y	616	-	42,43,43	1.31	8 (19%)	51,60,60	1.69	12 (23%)
25	BCR	O	205	-	41,41,41	1.39	8 (19%)	56,56,56	1.40	9 (16%)
21	CLA	1	602	1	58,62,73	1.26	9 (15%)	68,99,113	1.36	5 (7%)
24	LUT	z	616	-	42,43,43	1.31	8 (19%)	51,60,60	1.75	12 (23%)
21	CLA	B	830	-	47,51,73	1.36	9 (19%)	55,86,113	1.45	5 (9%)
21	CLA	4	611	-	44,49,73	1.43	9 (20%)	50,84,113	1.45	4 (8%)
21	CLA	B	813	-	69,73,73	1.16	9 (13%)	82,113,113	1.44	9 (10%)
21	CLA	4	612	-	61,65,73	1.23	9 (14%)	72,103,113	1.39	8 (11%)
21	CLA	4	614	-	54,58,73	1.30	9 (16%)	64,95,113	1.46	7 (10%)
21	CLA	4	602	4	64,68,73	1.19	9 (14%)	76,107,113	1.32	7 (9%)
21	CLA	B	838	-	51,55,73	1.33	9 (17%)	60,91,113	1.45	6 (10%)
25	BCR	B	846	-	41,41,41	1.40	8 (19%)	56,56,56	1.65	13 (23%)
21	CLA	A	819	-	63,67,73	1.22	9 (14%)	74,105,113	1.32	5 (6%)
21	CLA	K	204	-	50,54,73	1.36	9 (18%)	59,90,113	1.44	4 (6%)
20	CHL	z	601	19	47,61,74	3.90	19 (40%)	41,98,114	2.29	14 (34%)
21	CLA	B	831	-	47,51,73	1.34	8 (17%)	55,86,113	1.50	5 (9%)
21	CLA	B	808	-	69,73,73	1.14	9 (13%)	82,113,113	1.38	7 (8%)
21	CLA	x	613	-	63,67,73	1.22	9 (14%)	74,105,113	1.35	6 (8%)
22	XAT	z	617	-	41,47,47	1.30	8 (19%)	54,74,74	1.66	11 (20%)
25	BCR	3	614	-	41,41,41	1.41	8 (19%)	56,56,56	1.50	12 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
21	CLA	3	608	-	45,49,73	1.39	9 (20%)	54,84,113	1.68	10 (18%)
26	LMG	4	620	-	33,33,55	0.25	0	41,41,63	0.58	1 (2%)
21	CLA	4	603	-	48,52,73	1.48	10 (20%)	59,88,113	1.47	6 (10%)
26	LMG	4	619	-	39,39,55	0.23	0	47,47,63	0.24	0
21	CLA	L	304	-	49,53,73	1.40	9 (18%)	58,89,113	1.41	4 (6%)
25	BCR	O	204	-	41,41,41	1.40	8 (19%)	56,56,56	1.44	9 (16%)
24	LUT	1	616	-	42,43,43	1.29	7 (16%)	51,60,60	2.19	16 (31%)
20	CHL	1	601	1	46,60,74	3.82	18 (39%)	40,97,114	1.90	14 (35%)
21	CLA	3	610	-	43,48,73	1.45	8 (18%)	51,83,113	1.52	5 (9%)
29	PQN	A	855	-	34,34,34	0.42	0	43,45,45	0.58	1 (2%)
21	CLA	2	604	-	46,51,73	1.40	8 (17%)	54,86,113	1.50	4 (7%)
21	CLA	B	817	-	63,67,73	1.20	9 (14%)	74,105,113	1.36	6 (8%)
21	CLA	3	601	-	64,68,73	1.20	9 (14%)	76,107,113	1.32	6 (7%)
21	CLA	B	834	-	64,68,73	1.22	8 (12%)	76,107,113	1.33	5 (6%)
21	CLA	A	827	-	63,67,73	1.20	9 (14%)	74,105,113	1.36	6 (8%)
20	CHL	z	608	-	43,57,74	3.86	19 (44%)	37,93,114	2.70	14 (37%)
31	NEX	x	618	-	40,46,46	1.23	6 (15%)	50,70,70	1.76	13 (26%)
21	CLA	A	837	5	49,53,73	1.37	8 (16%)	58,89,113	1.46	5 (8%)
21	CLA	1	613	-	41,46,73	1.57	10 (24%)	51,81,113	1.56	8 (15%)
21	CLA	B	822	-	69,73,73	1.19	8 (11%)	82,113,113	1.44	7 (8%)
21	CLA	O	202	-	41,46,73	1.47	9 (21%)	47,80,113	1.53	5 (10%)
21	CLA	A	809	5	69,73,73	1.14	8 (11%)	82,113,113	1.34	8 (9%)
21	CLA	A	821	-	49,53,73	1.39	9 (18%)	58,89,113	1.45	4 (6%)
21	CLA	y	614	-	69,73,73	1.17	9 (13%)	82,113,113	1.36	6 (7%)
25	BCR	F	304	-	41,41,41	1.41	8 (19%)	56,56,56	2.13	16 (28%)
25	BCR	B	848	-	41,41,41	1.41	8 (19%)	56,56,56	1.49	12 (21%)
21	CLA	A	807	-	69,73,73	1.16	8 (11%)	82,113,113	1.24	5 (6%)

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
20	CHL	x	605	-	3/3/17/26	12/24/122/137	-
21	CLA	B	832	-	1/1/15/20	12/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	A	825	-	1/1/13/20	11/27/103/115	-
21	CLA	B	802	-	1/1/15/20	16/39/115/115	-
21	CLA	3	609	-	1/1/13/20	5/25/101/115	-
21	CLA	G	203	11	1/1/11/20	3/15/91/115	-
21	CLA	x	603	-	1/1/14/20	9/33/109/115	-
20	CHL	2	601	2	3/3/16/26	3/17/115/137	-
21	CLA	A	823	-	1/1/10/20	4/12/88/115	-
27	CL0	A	801	-	2/2/18/25	14/31/125/135	-
25	BCR	A	849	-	-	7/29/63/63	0/2/2/2
21	CLA	B	823	-	1/1/11/20	6/15/91/115	-
21	CLA	z	612	-	1/1/11/20	4/15/91/115	-
21	CLA	A	841	-	1/1/15/20	15/39/115/115	-
21	CLA	2	612	2	1/1/15/20	19/39/115/115	-
25	BCR	K	205	-	-	8/29/63/63	0/2/2/2
21	CLA	1	611	-	1/1/11/20	6/15/91/115	-
21	CLA	A	840	-	1/1/12/20	3/24/100/115	-
21	CLA	B	807	-	1/1/12/20	3/24/100/115	-
24	LUT	y	615	-	-	5/29/67/67	0/2/2/2
24	LUT	x	616	-	-	2/29/67/67	0/2/2/2
20	CHL	x	608	18	3/3/15/26	2/10/108/137	-
21	CLA	A	817	-	1/1/11/20	2/15/91/115	-
21	CLA	H	201	12	1/1/14/20	13/33/109/115	-
20	CHL	x	601	18	3/3/17/26	8/24/122/137	-
21	CLA	2	609	-	1/1/11/20	8/18/94/115	-
21	CLA	z	614	-	1/1/15/20	12/39/115/115	-
25	BCR	K	202	-	-	2/29/63/63	0/2/2/2
20	CHL	2	605	-	3/3/15/26	2/10/108/137	-
20	CHL	y	606	-	3/3/16/26	2/15/113/137	-
21	CLA	A	844	-	1/1/15/20	11/39/115/115	-
21	CLA	G	201	-	1/1/11/20	9/15/91/115	-
20	CHL	y	607	-	3/3/17/26	9/24/122/137	-
21	CLA	A	833	-	1/1/13/20	5/29/105/115	-
21	CLA	B	836	-	1/1/12/20	6/21/97/115	-
23	LHG	1	615	21	-	29/53/53/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	2	603	-	1/1/11/20	4/13/89/115	-
21	CLA	3	602	-	1/1/13/20	12/27/103/115	-
25	BCR	A	853	-	-	5/29/63/63	0/2/2/2
25	BCR	B	847	-	-	2/29/63/63	0/2/2/2
25	BCR	L	305	-	-	2/29/63/63	0/2/2/2
21	CLA	3	611	-	1/1/8/20	2/2/74/115	-
21	CLA	L	303	-	1/1/15/20	9/39/115/115	-
21	CLA	A	806	-	1/1/15/20	13/39/115/115	-
20	CHL	4	607	-	3/3/16/26	5/15/113/137	-
21	CLA	4	604	-	1/1/11/20	6/11/87/115	-
21	CLA	G	202	-	1/1/10/20	3/12/88/115	-
20	CHL	y	605	18	3/3/15/26	2/10/108/137	-
21	CLA	A	820	-	1/1/15/20	17/39/115/115	-
25	BCR	A	851	-	-	8/29/63/63	0/2/2/2
21	CLA	B	816	-	1/1/13/20	5/27/103/115	-
22	XAT	1	614	-	-	9/31/93/93	0/4/4/4
21	CLA	1	604	-	1/1/11/20	8/20/96/115	-
25	BCR	I	101	-	-	0/29/63/63	0/2/2/2
23	LHG	A	846	-	-	3/53/53/53	-
21	CLA	B	839	-	1/1/15/20	9/39/115/115	-
20	CHL	4	605	-	3/3/15/26	3/8/106/137	-
21	CLA	2	602	2	1/1/15/20	17/39/115/115	-
21	CLA	x	611	23	1/1/11/20	2/15/91/115	-
21	CLA	A	815	-	1/1/11/20	5/15/91/115	-
20	CHL	x	609	18	3/3/16/26	4/15/113/137	-
21	CLA	B	827	-	1/1/15/20	18/39/115/115	-
21	CLA	2	611	-	1/1/11/20	6/13/89/115	-
21	CLA	O	203	-	1/1/10/20	0/4/80/115	-
20	CHL	x	607	-	3/3/17/26	8/24/122/137	-
21	CLA	2	608	-	1/1/11/20	7/15/91/115	-
21	CLA	z	613	19	1/1/15/20	13/39/115/115	-
21	CLA	A	802	-	1/1/15/20	19/39/115/115	-
21	CLA	z	603	-	1/1/13/20	7/30/106/115	-
22	XAT	2	617	-	-	16/31/93/93	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
25	BCR	J	102	-	-	2/29/63/63	0/2/2/2
21	CLA	3	604	-	1/1/10/20	2/10/86/115	-
21	CLA	A	830	-	1/1/15/20	14/39/115/115	-
21	CLA	4	601	4	1/1/11/20	3/17/93/115	-
21	CLA	1	603	-	1/1/12/20	8/26/102/115	-
28	SF4	C	102	7	-	-	0/6/5/5
21	CLA	B	829	-	1/1/13/20	7/29/105/115	-
21	CLA	A	816	-	1/1/10/20	2/12/88/115	-
21	CLA	A	814	-	1/1/15/20	13/39/115/115	-
21	CLA	B	826	-	1/1/14/20	6/36/112/115	-
21	CLA	y	603	-	1/1/12/20	5/25/101/115	-
21	CLA	A	839	-	1/1/13/20	7/27/103/115	-
21	CLA	A	805	21	1/1/12/20	6/24/100/115	-
21	CLA	F	302	-	1/1/12/20	9/23/99/115	-
21	CLA	B	805	-	1/1/15/20	11/39/115/115	-
24	LUT	z	615	-	-	2/29/67/67	0/2/2/2
21	CLA	3	612	-	1/1/10/20	3/8/84/115	-
25	BCR	4	618	-	-	8/29/63/63	0/2/2/2
21	CLA	A	818	-	1/1/14/20	15/33/109/115	-
21	CLA	A	803	-	1/1/15/20	20/39/115/115	-
21	CLA	1	609	-	1/1/10/20	4/11/87/115	-
21	CLA	2	610	23	1/1/7/20	2/10/70/115	-
21	CLA	A	804	-	1/1/15/20	18/39/115/115	-
21	CLA	B	841	23	1/1/15/20	20/39/115/115	-
21	CLA	B	819	-	1/1/13/20	7/27/103/115	-
21	CLA	L	302	16	1/1/11/20	0/15/91/115	-
21	CLA	A	822	-	1/1/15/20	8/39/115/115	-
21	CLA	A	845	23	1/1/12/20	9/21/97/115	-
21	CLA	B	803	-	1/1/15/20	14/39/115/115	-
30	DGD	B	850	-	-	13/55/95/95	0/2/2/2
20	CHL	2	607	-	3/3/17/26	9/21/119/137	-
21	CLA	4	609	4	1/1/12/20	5/26/102/115	-
21	CLA	A	834	-	1/1/15/20	8/39/115/115	-
23	LHG	x	619	21	-	6/53/53/53	-
25	BCR	B	843	-	-	1/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	J	101	-	1/1/12/20	7/23/99/115	-
25	BCR	B	801	-	-	6/29/63/63	0/2/2/2
20	CHL	2	615	2	3/3/15/26	2/12/110/137	-
20	CHL	1	606	-	3/3/15/26	0/8/106/137	-
21	CLA	A	811	-	1/1/15/20	12/39/115/115	-
21	CLA	4	610	-	1/1/10/20	4/12/88/115	-
21	CLA	x	614	-	1/1/11/20	6/15/91/115	-
25	BCR	L	306	-	-	5/29/63/63	0/2/2/2
25	BCR	B	844	-	-	12/29/63/63	0/2/2/2
22	XAT	4	617	-	-	1/31/93/93	0/4/4/4
20	CHL	4	606	-	3/3/15/26	4/10/106/137	-
25	BCR	B	845	-	-	9/29/63/63	0/2/2/2
25	BCR	G	204	-	-	3/29/63/63	0/2/2/2
21	CLA	A	835	-	1/1/15/20	22/39/115/115	-
21	CLA	A	824	-	1/1/10/20	2/10/86/115	-
21	CLA	A	832	-	1/1/12/20	7/21/97/115	-
21	CLA	B	811	-	1/1/13/20	13/25/101/115	-
31	NEX	y	618	-	-	2/27/83/83	0/3/3/3
21	CLA	A	842	-	1/1/15/20	12/39/115/115	-
25	BCR	B	849	-	-	7/29/63/63	0/2/2/2
23	LHG	2	618	21	-	9/41/41/53	-
25	BCR	A	848	-	-	2/29/63/63	0/2/2/2
24	LUT	x	615	-	-	0/29/67/67	0/2/2/2
21	CLA	2	613	-	1/1/10/20	5/13/89/115	-
20	CHL	4	615	4	3/3/15/26	1/10/106/137	-
21	CLA	B	814	-	1/1/15/20	16/39/115/115	-
21	CLA	x	610	-	1/1/15/20	16/39/115/115	-
21	CLA	3	603	-	1/1/11/20	7/15/91/115	-
21	CLA	z	611	-	1/1/11/20	2/15/91/115	-
23	LHG	y	619	-	-	10/53/53/53	-
21	CLA	4	613	-	1/1/11/20	8/15/91/115	-
21	CLA	B	818	-	1/1/14/20	11/33/109/115	-
21	CLA	y	604	-	1/1/12/20	8/23/99/115	-
21	CLA	z	610	-	1/1/11/20	4/15/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	A	831	-	1/1/15/20	8/39/115/115	-
21	CLA	B	837	-	1/1/15/20	9/39/115/115	-
21	CLA	B	833	-	1/1/11/20	4/15/91/115	-
20	CHL	x	606	-	3/3/16/26	6/15/113/137	-
23	LHG	A	847	21	-	2/34/34/53	-
21	CLA	y	610	18	1/1/13/20	12/31/107/115	-
20	CHL	z	606	-	3/3/16/26	4/15/113/137	-
21	CLA	1	607	-	1/1/11/20	8/13/89/115	-
21	CLA	B	809	6	1/1/15/20	17/39/115/115	-
20	CHL	z	607	-	3/3/17/26	7/23/121/137	-
28	SF4	C	101	7	-	-	0/6/5/5
23	LHG	B	851	21	-	5/42/42/53	-
21	CLA	A	813	-	1/1/12/20	8/26/102/115	-
21	CLA	z	602	-	1/1/15/20	13/39/115/115	-
20	CHL	y	608	-	3/3/16/26	7/19/117/137	-
21	CLA	A	812	21	1/1/15/20	21/39/115/115	-
21	CLA	B	806	6	1/1/15/20	16/39/115/115	-
21	CLA	B	835	-	1/1/10/20	5/12/88/115	-
20	CHL	y	601	18	3/3/17/26	12/24/122/137	-
21	CLA	A	838	-	1/1/12/20	9/23/99/115	-
21	CLA	B	820	-	1/1/12/20	6/21/97/115	-
21	CLA	B	815	-	1/1/10/20	2/13/89/115	-
21	CLA	B	825	-	1/1/14/20	12/36/112/115	-
21	CLA	A	836	-	1/1/11/20	6/15/91/115	-
20	CHL	z	609	-	3/3/17/26	12/24/122/137	-
22	XAT	y	617	-	-	4/31/93/93	0/4/4/4
21	CLA	F	301	-	1/1/13/20	11/30/106/115	-
21	CLA	x	604	-	1/1/12/20	6/24/100/115	-
25	BCR	L	301	-	-	3/29/63/63	0/2/2/2
21	CLA	y	613	-	1/1/11/20	6/15/91/115	-
21	CLA	A	828	-	1/1/15/20	10/39/115/115	-
29	PQN	B	842	-	-	6/23/43/43	0/2/2/2
21	CLA	3	605	-	1/1/10/20	6/10/86/115	-
20	CHL	2	606	-	3/3/15/26	1/12/110/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	B	828	-	1/1/15/20	15/39/115/115	-
21	CLA	K	203	-	1/1/11/20	7/15/91/115	-
21	CLA	z	604	-	1/1/12/20	9/23/99/115	-
25	BCR	A	852	-	-	13/29/63/63	0/2/2/2
21	CLA	B	810	-	1/1/15/20	12/39/115/115	-
20	CHL	3	606	-	3/3/16/26	5/13/111/137	-
21	CLA	B	804	-	1/1/10/20	2/10/86/115	-
21	CLA	F	303	10	1/1/10/20	4/10/86/115	-
21	CLA	4	608	4	1/1/11/20	6/15/91/115	-
24	LUT	2	616	-	-	7/29/67/67	0/2/2/2
21	CLA	x	602	-	1/1/15/20	12/39/115/115	-
24	LUT	3	613	-	-	7/29/67/67	0/2/2/2
21	CLA	O	201	-	1/1/15/20	15/39/115/115	-
23	LHG	B	852	-	-	14/53/53/53	-
24	LUT	4	616	-	-	2/29/67/67	0/2/2/2
21	CLA	x	612	-	1/1/11/20	8/15/91/115	-
31	NEX	z	618	-	-	2/27/83/83	0/3/3/3
21	CLA	B	821	-	1/1/11/20	3/18/94/115	-
21	CLA	y	611	-	1/1/11/20	7/15/91/115	-
21	CLA	B	812	-	1/1/10/20	0/13/89/115	-
21	CLA	K	201	15	1/1/8/20	2/4/76/115	-
21	CLA	A	808	-	1/1/12/20	2/21/97/115	-
21	CLA	y	612	-	1/1/11/20	8/15/91/115	-
25	BCR	A	850	-	-	4/29/63/63	0/2/2/2
24	LUT	2	619	-	-	4/29/67/67	0/2/2/2
20	CHL	y	609	18	3/3/17/26	14/24/122/137	-
21	CLA	A	829	-	1/1/15/20	15/39/115/115	-
21	CLA	A	843	-	1/1/15/20	13/39/115/115	-
21	CLA	1	608	1	1/1/10/20	3/8/84/115	-
21	CLA	A	810	5	1/1/12/20	6/21/97/115	-
28	SF4	A	854	5,6	-	-	0/6/5/5
21	CLA	1	605	-	1/1/11/20	7/17/93/115	-
21	CLA	1	612	-	1/1/11/20	5/17/93/115	-
20	CHL	z	605	-	3/3/15/26	6/10/108/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	CLA	A	826	-	1/1/15/20	8/39/115/115	-
21	CLA	B	840	-	1/1/15/20	13/39/115/115	-
21	CLA	y	602	18	1/1/15/20	21/39/115/115	-
23	LHG	z	619	-	-	9/53/53/53	-
21	CLA	1	610	23	1/1/10/20	0/4/80/115	-
21	CLA	K	206	15	1/1/9/20	2/8/80/115	-
22	XAT	x	617	-	-	8/31/93/93	0/4/4/4
21	CLA	B	824	-	1/1/15/20	11/39/115/115	-
21	CLA	3	607	-	1/1/11/20	4/15/91/115	-
24	LUT	y	616	-	-	6/29/67/67	0/2/2/2
25	BCR	O	205	-	-	0/29/63/63	0/2/2/2
21	CLA	1	602	1	1/1/12/20	6/26/102/115	-
24	LUT	z	616	-	-	3/29/67/67	0/2/2/2
21	CLA	B	830	-	1/1/10/20	3/13/89/115	-
21	CLA	4	611	-	1/1/10/20	4/10/86/115	-
21	CLA	B	813	-	1/1/15/20	11/39/115/115	-
21	CLA	4	612	-	1/1/13/20	10/30/106/115	-
21	CLA	4	614	-	1/1/12/20	7/21/97/115	-
21	CLA	4	602	4	1/1/14/20	6/33/109/115	-
21	CLA	B	838	-	1/1/11/20	0/18/94/115	-
25	BCR	B	846	-	-	8/29/63/63	0/2/2/2
21	CLA	A	819	-	1/1/13/20	17/32/108/115	-
21	CLA	K	204	-	1/1/11/20	10/17/93/115	-
20	CHL	z	601	19	3/3/17/26	6/24/122/137	-
21	CLA	B	831	-	1/1/10/20	2/13/89/115	-
21	CLA	B	808	-	1/1/15/20	16/39/115/115	-
21	CLA	x	613	-	1/1/13/20	10/32/108/115	-
22	XAT	z	617	-	-	0/31/93/93	0/4/4/4
25	BCR	3	614	-	-	5/29/63/63	0/2/2/2
21	CLA	3	608	-	1/1/10/20	3/10/86/115	-
26	LMG	4	620	-	-	8/28/48/70	0/1/1/1
21	CLA	4	603	-	1/1/11/20	4/13/89/115	-
26	LMG	4	619	-	-	7/34/54/70	0/1/1/1
21	CLA	L	304	-	1/1/11/20	2/15/91/115	-
25	BCR	O	204	-	-	0/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	LUT	1	616	-	-	2/29/67/67	0/2/2/2
20	CHL	1	601	1	3/3/17/26	6/22/120/137	-
21	CLA	3	610	-	1/1/10/20	3/8/84/115	-
29	PQN	A	855	-	-	1/23/43/43	0/2/2/2
21	CLA	2	604	-	1/1/10/20	7/12/88/115	-
21	CLA	B	817	-	1/1/13/20	13/32/108/115	-
21	CLA	3	601	-	1/1/14/20	17/33/109/115	-
21	CLA	B	834	-	1/1/14/20	7/33/109/115	-
21	CLA	A	827	-	1/1/13/20	4/32/108/115	-
20	CHL	z	608	-	3/3/16/26	3/19/117/137	-
31	NEX	x	618	-	-	8/27/83/83	0/3/3/3
21	CLA	A	837	5	1/1/11/20	2/15/91/115	-
21	CLA	1	613	-	1/1/10/20	0/4/80/115	-
21	CLA	B	822	-	1/1/15/20	24/39/115/115	-
21	CLA	O	202	-	1/1/9/20	0/6/78/115	-
21	CLA	A	809	5	1/1/15/20	9/39/115/115	-
21	CLA	A	821	-	1/1/11/20	2/15/91/115	-
21	CLA	y	614	-	1/1/15/20	20/39/115/115	-
25	BCR	F	304	-	-	13/29/63/63	0/2/2/2
25	BCR	B	848	-	-	2/29/63/63	0/2/2/2
21	CLA	A	807	-	1/1/15/20	12/39/115/115	-

All (2415) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	4	617	XAT	O4-C5	-13.75	1.28	1.46
21	2	610	CLA	C1A-NA	12.67	1.40	1.29
22	4	617	XAT	O24-C25	-12.15	1.30	1.46
20	y	609	CHL	C2C-C3C	11.42	1.47	1.36
20	z	609	CHL	C2C-C3C	11.39	1.47	1.36
20	x	601	CHL	C2C-C3C	11.03	1.47	1.36
20	y	601	CHL	C2C-C3C	10.96	1.47	1.36
20	1	606	CHL	C2C-C3C	10.94	1.47	1.36
20	x	607	CHL	C2C-C3C	10.82	1.46	1.36
20	z	601	CHL	C2C-C3C	10.79	1.46	1.36
20	y	609	CHL	C1D-C2D	10.71	1.51	1.39
20	z	609	CHL	C1D-C2D	10.65	1.51	1.39
20	y	606	CHL	C2C-C3C	10.64	1.46	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	y	605	CHL	C2C-C3C	10.58	1.46	1.36
20	1	606	CHL	C1D-C2D	10.57	1.51	1.39
20	4	615	CHL	C2C-C3C	10.47	1.46	1.36
20	z	605	CHL	C2C-C3C	10.41	1.46	1.36
20	2	615	CHL	C2C-C3C	10.37	1.46	1.36
20	x	601	CHL	C1D-C2D	10.31	1.51	1.39
20	y	606	CHL	C1D-C2D	10.31	1.51	1.39
20	z	606	CHL	C2C-C3C	10.31	1.46	1.36
20	z	601	CHL	C1D-C2D	10.30	1.51	1.39
20	y	605	CHL	C1D-C2D	10.28	1.51	1.39
20	x	607	CHL	C1D-C2D	10.22	1.51	1.39
20	1	601	CHL	C2C-C3C	10.16	1.46	1.36
20	x	608	CHL	C2C-C3C	10.12	1.46	1.36
20	4	605	CHL	C1D-C2D	10.09	1.51	1.39
20	y	607	CHL	C2C-C3C	10.09	1.46	1.36
20	z	607	CHL	C2C-C3C	10.08	1.46	1.36
20	y	608	CHL	C2C-C3C	10.04	1.46	1.36
20	x	608	CHL	C1D-C2D	10.04	1.51	1.39
20	z	605	CHL	C1D-C2D	10.02	1.51	1.39
20	4	615	CHL	C1D-C2D	10.00	1.50	1.39
20	y	601	CHL	C1D-C2D	9.98	1.50	1.39
20	1	601	CHL	C1D-C2D	9.98	1.50	1.39
20	2	606	CHL	C1D-C2D	9.98	1.50	1.39
22	4	617	XAT	C4-C3	-9.95	1.38	1.52
20	2	606	CHL	C2C-C3C	9.94	1.46	1.36
20	z	606	CHL	C1D-C2D	9.94	1.50	1.39
20	4	607	CHL	C2C-C3C	9.93	1.46	1.36
20	x	605	CHL	C2C-C3C	9.92	1.46	1.36
20	4	606	CHL	C1D-C2D	9.91	1.50	1.39
20	2	605	CHL	C1D-C2D	9.88	1.50	1.39
20	2	615	CHL	C1D-C2D	9.87	1.50	1.39
20	2	607	CHL	C2C-C3C	9.85	1.45	1.36
20	x	609	CHL	C2C-C3C	9.81	1.45	1.36
20	z	607	CHL	C1D-C2D	9.79	1.50	1.39
20	z	608	CHL	C2C-C3C	9.70	1.45	1.36
20	y	607	CHL	C1D-C2D	9.64	1.50	1.39
20	x	606	CHL	C2C-C3C	9.64	1.45	1.36
20	4	607	CHL	C1D-C2D	9.62	1.50	1.39
20	2	601	CHL	C2C-C3C	9.61	1.45	1.36
20	x	609	CHL	C1D-C2D	9.59	1.50	1.39
20	z	608	CHL	C1D-C2D	9.58	1.50	1.39
20	x	605	CHL	C1D-C2D	9.58	1.50	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	x	606	CHL	C1D-C2D	9.56	1.50	1.39
20	y	608	CHL	C1D-C2D	9.55	1.50	1.39
20	2	601	CHL	C1D-C2D	9.53	1.50	1.39
20	3	606	CHL	C1D-C2D	9.53	1.50	1.39
20	2	607	CHL	C1D-C2D	9.51	1.50	1.39
27	A	801	CL0	C1D-C2D	9.15	1.50	1.39
22	4	617	XAT	C2-C3	-8.98	1.39	1.52
20	4	606	CHL	C1B-C2B	8.70	1.49	1.39
20	x	601	CHL	C1B-C2B	8.68	1.49	1.39
20	1	606	CHL	C1B-C2B	8.68	1.49	1.39
27	A	801	CL0	C1B-C2B	8.67	1.49	1.39
20	x	607	CHL	C1B-C2B	8.61	1.49	1.39
20	y	609	CHL	C1B-C2B	8.60	1.49	1.39
20	z	601	CHL	C1B-C2B	8.55	1.49	1.39
20	y	601	CHL	C1B-C2B	8.46	1.49	1.39
20	z	609	CHL	C1B-C2B	8.39	1.49	1.39
20	z	605	CHL	C1B-C2B	8.39	1.49	1.39
20	y	605	CHL	C1B-C2B	8.38	1.49	1.39
20	4	605	CHL	C1B-C2B	8.36	1.49	1.39
20	4	615	CHL	C1B-C2B	8.33	1.49	1.39
20	2	606	CHL	C1B-C2B	8.26	1.49	1.39
20	z	607	CHL	C1B-C2B	8.17	1.48	1.39
20	y	607	CHL	C1B-C2B	8.15	1.48	1.39
20	2	605	CHL	C1B-C2B	8.11	1.48	1.39
20	z	606	CHL	C1B-C2B	8.11	1.48	1.39
20	2	615	CHL	C1B-C2B	8.11	1.48	1.39
20	4	607	CHL	C1B-C2B	8.09	1.48	1.39
20	x	608	CHL	C1B-C2B	8.09	1.48	1.39
20	2	601	CHL	C1B-C2B	8.02	1.48	1.39
20	y	606	CHL	C1B-C2B	7.99	1.48	1.39
22	4	617	XAT	C19-C9	-7.97	1.34	1.50
20	2	607	CHL	C1B-C2B	7.97	1.48	1.39
20	y	608	CHL	C1B-C2B	7.97	1.48	1.39
20	1	601	CHL	C1B-C2B	7.95	1.48	1.39
20	x	605	CHL	C1B-C2B	7.93	1.48	1.39
20	x	609	CHL	C1B-C2B	7.92	1.48	1.39
20	3	606	CHL	C1B-C2B	7.86	1.48	1.39
20	z	608	CHL	C1B-C2B	7.86	1.48	1.39
20	y	608	CHL	C3B-C4B	7.83	1.49	1.41
20	1	601	CHL	C3B-C4B	7.81	1.49	1.41
20	x	606	CHL	C1B-C2B	7.76	1.48	1.39
20	x	606	CHL	C3B-C4B	7.73	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	2	615	CHL	C3B-C4B	7.71	1.48	1.41
20	y	601	CHL	C1A-CHA	7.70	1.48	1.40
20	4	606	CHL	C4B-C3B	7.70	1.48	1.39
20	z	607	CHL	C3B-C4B	7.70	1.48	1.41
20	4	605	CHL	C3B-C4B	7.69	1.48	1.41
20	y	605	CHL	C3B-C4B	7.68	1.48	1.41
20	4	615	CHL	C4B-C3B	7.68	1.48	1.39
20	y	607	CHL	C3B-C4B	7.63	1.48	1.41
20	y	606	CHL	C3B-C4B	7.59	1.48	1.41
20	z	606	CHL	C3B-C4B	7.59	1.48	1.41
20	2	606	CHL	C3B-C4B	7.58	1.48	1.41
20	z	606	CHL	C1A-CHA	7.58	1.48	1.40
20	x	606	CHL	C1A-CHA	7.58	1.48	1.40
20	1	606	CHL	C3B-C4B	7.55	1.48	1.41
20	2	615	CHL	C1A-CHA	7.51	1.48	1.40
20	x	607	CHL	C3B-C4B	7.50	1.48	1.41
20	x	605	CHL	C3B-C4B	7.49	1.48	1.41
20	z	609	CHL	C3B-C4B	7.48	1.48	1.41
20	x	601	CHL	C1A-CHA	7.48	1.48	1.40
20	2	601	CHL	C1A-CHA	7.46	1.48	1.40
20	x	609	CHL	C3B-C4B	7.44	1.48	1.41
20	z	608	CHL	C3B-C4B	7.43	1.48	1.41
20	z	605	CHL	C3B-C4B	7.43	1.48	1.41
20	x	608	CHL	C3B-C4B	7.42	1.48	1.41
20	2	605	CHL	C3B-C4B	7.40	1.48	1.41
20	3	606	CHL	C3B-C4B	7.37	1.48	1.41
22	4	617	XAT	C22-C23	-7.37	1.41	1.52
20	x	605	CHL	C1A-CHA	7.35	1.48	1.40
20	3	606	CHL	C1A-CHA	7.35	1.48	1.40
20	z	605	CHL	C1A-CHA	7.31	1.48	1.40
20	2	607	CHL	C1A-CHA	7.29	1.48	1.40
22	4	617	XAT	C38-C25	-7.28	1.40	1.51
20	y	608	CHL	C1A-CHA	7.27	1.48	1.40
20	y	609	CHL	C3B-C4B	7.25	1.48	1.41
20	2	607	CHL	C3B-C4B	7.24	1.48	1.41
22	4	617	XAT	C22-C21	-7.22	1.43	1.54
20	z	601	CHL	C3B-C4B	7.20	1.48	1.41
20	z	601	CHL	C1A-CHA	7.17	1.48	1.40
20	4	607	CHL	C1A-CHA	7.16	1.48	1.40
20	y	605	CHL	C1A-CHA	7.16	1.48	1.40
20	x	609	CHL	C1A-CHA	7.13	1.48	1.40
20	2	601	CHL	C3B-C4B	7.13	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	y	601	CHL	C3B-C4B	7.12	1.48	1.41
20	1	606	CHL	C1A-CHA	7.09	1.48	1.40
20	z	608	CHL	C1A-CHA	7.09	1.48	1.40
22	4	617	XAT	C4-C5	-7.09	1.42	1.52
20	z	607	CHL	C1A-CHA	7.09	1.48	1.40
20	x	608	CHL	C1A-CHA	7.07	1.48	1.40
20	1	601	CHL	C1A-CHA	7.06	1.48	1.40
20	z	609	CHL	C1A-CHA	7.05	1.48	1.40
20	y	609	CHL	C1A-CHA	7.04	1.48	1.40
20	4	606	CHL	C1A-CHA	7.04	1.48	1.40
20	x	601	CHL	C3B-C4B	7.03	1.48	1.41
20	4	615	CHL	C1A-CHA	7.02	1.48	1.40
20	2	605	CHL	C1A-CHA	7.02	1.48	1.40
20	y	606	CHL	C1A-CHA	7.00	1.48	1.40
20	4	607	CHL	C3B-C4B	6.94	1.48	1.41
20	2	606	CHL	C1A-CHA	6.92	1.47	1.40
20	y	607	CHL	C1A-CHA	6.73	1.47	1.40
20	4	605	CHL	C1A-CHA	6.66	1.47	1.40
20	x	607	CHL	C1A-CHA	6.63	1.47	1.40
27	A	801	CL0	CHB-C4A	-6.44	1.30	1.38
22	4	617	XAT	C24-C23	-6.44	1.43	1.52
27	A	801	CL0	C3B-C4B	6.12	1.47	1.41
22	4	617	XAT	C2-C1	-6.11	1.45	1.54
22	4	617	XAT	C40-C33	-6.02	1.38	1.50
22	4	617	XAT	C20-C13	-5.84	1.39	1.50
22	4	617	XAT	C16-C1	-5.53	1.43	1.53
27	A	801	CL0	C3A-C2A	-5.49	1.50	1.54
20	2	607	CHL	C3D-C4D	-5.47	1.33	1.41
20	z	609	CHL	C3B-C2B	5.47	1.47	1.40
20	y	609	CHL	C3B-C2B	5.45	1.47	1.40
20	1	601	CHL	C3D-C4D	-5.40	1.33	1.41
20	2	601	CHL	C3D-C4D	-5.38	1.33	1.41
20	x	609	CHL	C3D-C4D	-5.36	1.33	1.41
20	4	607	CHL	C3D-C4D	-5.35	1.33	1.41
20	3	606	CHL	C3D-C4D	-5.35	1.33	1.41
20	y	607	CHL	C3D-C4D	-5.34	1.33	1.41
20	z	605	CHL	C3D-C4D	-5.33	1.33	1.41
20	y	608	CHL	C3D-C4D	-5.32	1.33	1.41
20	x	605	CHL	C3D-C4D	-5.32	1.33	1.41
20	z	609	CHL	C3D-C4D	-5.32	1.33	1.41
20	z	608	CHL	C3D-C4D	-5.31	1.33	1.41
22	4	617	XAT	C37-C21	-5.30	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	2	605	CHL	C3D-C4D	-5.30	1.33	1.41
20	y	606	CHL	C3D-C4D	-5.30	1.33	1.41
20	4	605	CHL	C3D-C4D	-5.28	1.33	1.41
20	y	601	CHL	C3B-C2B	5.27	1.47	1.40
20	z	607	CHL	C3D-C4D	-5.26	1.33	1.41
20	2	615	CHL	C3D-C4D	-5.25	1.33	1.41
20	y	609	CHL	C3D-C4D	-5.25	1.33	1.41
20	z	606	CHL	C3D-C4D	-5.23	1.33	1.41
20	z	601	CHL	C3D-C4D	-5.22	1.33	1.41
20	z	608	CHL	C3A-C2A	-5.21	1.50	1.54
20	x	601	CHL	C3B-C2B	5.20	1.47	1.40
20	2	606	CHL	C3D-C4D	-5.19	1.33	1.41
20	x	607	CHL	C3D-C4D	-5.19	1.33	1.41
20	z	609	CHL	CHD-C1D	5.18	1.48	1.39
20	2	607	CHL	C3A-C2A	-5.18	1.50	1.54
20	x	608	CHL	C3D-C4D	-5.17	1.33	1.41
20	z	609	CHL	CHC-C4B	5.16	1.48	1.39
20	y	601	CHL	C3D-C4D	-5.15	1.33	1.41
20	y	609	CHL	CHC-C4B	5.15	1.48	1.39
20	y	609	CHL	CHD-C1D	5.15	1.48	1.39
20	1	606	CHL	C3D-C4D	-5.14	1.33	1.41
20	1	606	CHL	C3B-C2B	5.13	1.47	1.40
20	y	605	CHL	O2D-CGD	5.12	1.45	1.33
20	4	606	CHL	O2D-CGD	5.12	1.45	1.33
20	x	601	CHL	C3D-C4D	-5.11	1.33	1.41
20	y	605	CHL	C3D-C4D	-5.11	1.33	1.41
20	z	609	CHL	O2D-CGD	5.10	1.45	1.33
20	z	609	CHL	CHD-C4C	5.10	1.49	1.39
20	x	606	CHL	C3D-C4D	-5.10	1.33	1.41
20	4	606	CHL	C3D-C4D	-5.10	1.33	1.41
20	4	615	CHL	C3D-C4D	-5.08	1.33	1.41
20	y	609	CHL	O2D-CGD	5.08	1.45	1.33
20	x	601	CHL	O2D-CGD	5.08	1.45	1.33
20	2	607	CHL	CHB-C4A	-5.06	1.32	1.38
20	z	601	CHL	O2D-CGD	5.06	1.45	1.33
20	4	605	CHL	OBD-CAD	5.06	1.28	1.22
20	y	601	CHL	O2D-CGD	5.06	1.45	1.33
20	x	607	CHL	O2D-CGD	5.06	1.45	1.33
20	z	607	CHL	C3A-C2A	-5.04	1.50	1.54
20	2	606	CHL	O2D-CGD	5.04	1.45	1.33
20	x	606	CHL	CHB-C4A	-5.04	1.32	1.38
20	2	615	CHL	O2D-CGD	5.04	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	z	605	CHL	OBD-CAD	5.04	1.28	1.22
20	y	609	CHL	CHD-C4C	5.04	1.49	1.39
20	z	605	CHL	O2D-CGD	5.04	1.45	1.33
20	y	608	CHL	CHB-C4A	-5.04	1.32	1.38
20	3	606	CHL	C3A-C2A	-5.04	1.50	1.54
20	z	605	CHL	C2A-C3A	-5.04	1.50	1.54
20	z	606	CHL	O2D-CGD	5.04	1.45	1.33
20	x	607	CHL	C3B-C2B	5.03	1.47	1.40
20	x	609	CHL	CHB-C4A	-5.03	1.32	1.38
20	y	609	CHL	CHB-C1B	5.03	1.47	1.39
20	x	605	CHL	CHB-C4A	-5.03	1.32	1.38
20	y	607	CHL	CHB-C4A	-5.02	1.32	1.38
22	4	617	XAT	C39-C29	-5.02	1.40	1.50
20	x	606	CHL	O2D-CGD	5.02	1.45	1.33
20	2	605	CHL	O2D-CGD	5.02	1.45	1.33
20	z	601	CHL	C3B-C2B	5.02	1.47	1.40
20	y	605	CHL	C3B-C2B	5.02	1.47	1.40
20	z	606	CHL	CHC-C4B	5.01	1.47	1.39
20	x	608	CHL	O2D-CGD	5.01	1.45	1.33
20	x	605	CHL	C3A-C2A	-5.00	1.50	1.54
20	2	606	CHL	OBD-CAD	4.99	1.28	1.22
20	y	606	CHL	C3A-C2A	-4.99	1.50	1.54
20	z	601	CHL	OBD-CAD	4.99	1.28	1.22
20	2	605	CHL	CHB-C4A	-4.99	1.32	1.38
20	4	606	CHL	OBD-CAD	4.98	1.28	1.22
20	z	607	CHL	CHB-C4A	-4.98	1.32	1.38
20	x	608	CHL	OBD-CAD	4.98	1.28	1.22
20	y	606	CHL	O2D-CGD	4.97	1.45	1.33
20	y	609	CHL	C3D-C2D	4.96	1.48	1.39
20	4	607	CHL	C3A-C2A	-4.96	1.50	1.54
20	x	608	CHL	C2A-C3A	-4.96	1.50	1.54
20	1	606	CHL	CHD-C4C	4.95	1.48	1.39
20	x	601	CHL	CHD-C4C	4.95	1.48	1.39
20	y	607	CHL	O2D-CGD	4.95	1.45	1.33
20	z	609	CHL	CHB-C1B	4.94	1.47	1.39
20	z	608	CHL	OBD-CAD	4.93	1.28	1.22
20	z	608	CHL	CHB-C4A	-4.93	1.32	1.38
20	y	606	CHL	CHC-C4B	4.93	1.47	1.39
20	y	605	CHL	OBD-CAD	4.92	1.28	1.22
20	y	606	CHL	CHB-C4A	-4.92	1.32	1.38
20	3	606	CHL	CHB-C4A	-4.92	1.32	1.38
20	z	608	CHL	O2D-CGD	4.92	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	z	607	CHL	O2D-CGD	4.92	1.45	1.33
20	1	606	CHL	CHC-C4B	4.92	1.47	1.39
20	y	601	CHL	CHC-C4B	4.92	1.47	1.39
20	x	601	CHL	OBD-CAD	4.91	1.28	1.22
20	z	606	CHL	CHB-C4A	-4.91	1.32	1.38
20	4	607	CHL	O2D-CGD	4.91	1.45	1.33
27	A	801	CL0	C3D-C4D	-4.90	1.34	1.41
20	1	601	CHL	CHC-C4B	4.90	1.47	1.39
20	y	607	CHL	C3A-C2A	-4.90	1.50	1.54
20	2	615	CHL	CHC-C4B	4.90	1.47	1.39
20	2	607	CHL	O2D-CGD	4.90	1.45	1.33
20	x	608	CHL	CHB-C4A	-4.89	1.32	1.38
20	z	609	CHL	OBD-CAD	4.89	1.28	1.22
20	x	605	CHL	O2D-CGD	4.89	1.45	1.33
20	2	601	CHL	C3A-C2A	-4.89	1.50	1.54
20	1	606	CHL	CHD-C1D	4.88	1.47	1.39
20	x	607	CHL	OBD-CAD	4.87	1.28	1.22
20	4	607	CHL	CHB-C4A	-4.87	1.32	1.38
20	1	606	CHL	OBD-CAD	4.87	1.28	1.22
20	y	608	CHL	OBD-CAD	4.86	1.28	1.22
20	x	601	CHL	CHD-C1D	4.85	1.47	1.39
20	4	615	CHL	C3A-C2A	-4.84	1.50	1.54
20	y	608	CHL	CHC-C4B	4.84	1.47	1.39
20	1	606	CHL	CHB-C1B	4.84	1.47	1.39
20	z	601	CHL	CHD-C1D	4.84	1.47	1.39
20	2	601	CHL	OBD-CAD	4.83	1.28	1.22
20	4	615	CHL	OBD-CAD	4.83	1.28	1.22
20	y	606	CHL	OBD-CAD	4.82	1.28	1.22
20	y	609	CHL	OBD-CAD	4.82	1.28	1.22
20	1	601	CHL	OBD-CAD	4.82	1.28	1.22
20	2	605	CHL	OBD-CAD	4.82	1.28	1.22
20	1	601	CHL	CHB-C4A	-4.82	1.32	1.38
20	3	606	CHL	O2D-CGD	4.82	1.45	1.33
20	z	605	CHL	C3B-C2B	4.82	1.46	1.40
20	1	606	CHL	C3D-C2D	4.81	1.47	1.39
20	x	606	CHL	CHC-C4B	4.81	1.47	1.39
20	2	601	CHL	CHB-C4A	-4.81	1.32	1.38
20	4	605	CHL	CHB-C4A	-4.81	1.32	1.38
20	4	607	CHL	C3B-C2B	4.80	1.46	1.40
20	x	607	CHL	C3A-C2A	-4.80	1.50	1.54
20	y	605	CHL	C2A-C3A	-4.80	1.50	1.54
20	x	605	CHL	OBD-CAD	4.80	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	4	615	CHL	CHB-C4A	-4.80	1.32	1.38
20	2	615	CHL	CHB-C4A	-4.79	1.32	1.38
20	2	605	CHL	CHC-C4B	4.79	1.47	1.39
20	2	607	CHL	CHC-C4B	4.79	1.47	1.39
20	z	601	CHL	CHD-C4C	4.78	1.48	1.39
20	2	615	CHL	OBD-CAD	4.78	1.28	1.22
20	4	605	CHL	O2D-CGD	4.78	1.45	1.30
20	x	606	CHL	C3A-C2A	-4.78	1.50	1.54
20	z	605	CHL	CHC-C4B	4.78	1.47	1.39
20	y	601	CHL	CHD-C1D	4.77	1.47	1.39
22	4	617	XAT	C36-C21	-4.77	1.44	1.53
20	y	601	CHL	C3D-C2D	4.76	1.47	1.39
20	y	605	CHL	CHC-C4B	4.76	1.47	1.39
20	z	607	CHL	OBD-CAD	4.76	1.28	1.22
20	2	605	CHL	C3A-C2A	-4.76	1.50	1.54
20	x	608	CHL	CHC-C4B	4.76	1.47	1.39
20	x	601	CHL	CHC-C4B	4.75	1.47	1.39
20	x	609	CHL	CHC-C4B	4.75	1.47	1.39
20	z	606	CHL	CHD-C4C	4.75	1.48	1.39
20	4	606	CHL	CHB-C4A	-4.75	1.32	1.38
20	y	607	CHL	OBD-CAD	4.75	1.28	1.22
20	3	606	CHL	OBD-CAD	4.75	1.28	1.22
20	z	609	CHL	C3D-C2D	4.74	1.47	1.39
20	y	608	CHL	O2D-CGD	4.74	1.44	1.33
20	x	601	CHL	CHB-C1B	4.74	1.47	1.39
20	1	606	CHL	O2D-CGD	4.74	1.45	1.30
20	2	606	CHL	CHB-C4A	-4.74	1.32	1.38
20	x	609	CHL	OBD-CAD	4.74	1.28	1.22
20	z	609	CHL	CHC-C1C	4.74	1.48	1.39
20	z	606	CHL	OBD-CAD	4.73	1.28	1.22
20	1	601	CHL	CHD-C4C	4.73	1.48	1.39
20	y	609	CHL	CHC-C1C	4.73	1.48	1.39
20	y	601	CHL	CHD-C4C	4.73	1.48	1.39
20	2	606	CHL	CHC-C4B	4.72	1.47	1.39
20	x	609	CHL	C3A-C2A	-4.72	1.50	1.54
20	y	601	CHL	OBD-CAD	4.71	1.28	1.22
20	x	607	CHL	CHD-C1D	4.70	1.47	1.39
20	x	601	CHL	C3D-C2D	4.70	1.47	1.39
20	x	607	CHL	CHD-C4C	4.69	1.48	1.39
20	z	601	CHL	CHC-C4B	4.69	1.47	1.39
20	2	615	CHL	C3A-C2A	-4.69	1.50	1.54
20	2	607	CHL	OBD-CAD	4.69	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	4	605	CHL	CHC-C4B	4.68	1.47	1.39
20	y	601	CHL	CHB-C4A	-4.68	1.33	1.38
20	4	605	CHL	CHD-C4C	4.67	1.48	1.39
20	2	615	CHL	C3B-C2B	4.67	1.46	1.40
20	4	605	CHL	C2C-C3C	4.67	1.46	1.37
20	1	601	CHL	O2D-CGD	4.66	1.45	1.30
20	x	606	CHL	OBD-CAD	4.66	1.28	1.22
20	4	607	CHL	OBD-CAD	4.66	1.28	1.22
20	4	606	CHL	C3A-C2A	-4.65	1.50	1.54
20	x	607	CHL	CHC-C4B	4.65	1.47	1.39
20	1	601	CHL	CHD-C1D	4.64	1.47	1.39
20	z	601	CHL	C3D-C2D	4.64	1.47	1.39
20	4	615	CHL	O2D-CGD	4.64	1.45	1.30
20	z	606	CHL	C3A-C2A	-4.64	1.50	1.54
20	4	606	CHL	CHD-C4C	4.64	1.48	1.39
20	y	608	CHL	C3B-C2B	4.64	1.46	1.40
20	z	607	CHL	CHC-C4B	4.64	1.47	1.39
20	z	601	CHL	CHB-C4A	-4.63	1.33	1.38
20	z	606	CHL	C3B-C2B	4.63	1.46	1.40
20	y	601	CHL	CHB-C1B	4.63	1.47	1.39
20	x	607	CHL	CHB-C1B	4.63	1.47	1.39
20	z	605	CHL	CHB-C4A	-4.62	1.33	1.38
20	y	605	CHL	CHD-C4C	4.62	1.48	1.39
20	2	601	CHL	O2D-CGD	4.61	1.44	1.33
20	x	609	CHL	O2D-CGD	4.61	1.44	1.33
20	z	606	CHL	CHD-C1D	4.60	1.47	1.39
20	x	607	CHL	C3D-C2D	4.60	1.47	1.39
20	z	608	CHL	CHC-C4B	4.60	1.47	1.39
20	y	607	CHL	CHC-C4B	4.60	1.47	1.39
20	x	607	CHL	CHB-C4A	-4.59	1.33	1.38
20	y	605	CHL	CHB-C4A	-4.59	1.33	1.38
20	y	606	CHL	CHD-C4C	4.59	1.48	1.39
20	4	615	CHL	CHC-C4B	4.59	1.47	1.39
20	x	601	CHL	CHB-C4A	-4.58	1.33	1.38
20	3	606	CHL	O2A-CGA	4.58	1.46	1.30
20	x	605	CHL	CHC-C4B	4.58	1.47	1.39
20	4	607	CHL	CHC-C4B	4.58	1.47	1.39
20	4	615	CHL	CHD-C4C	4.57	1.48	1.39
20	1	601	CHL	C3B-C2B	4.57	1.46	1.40
20	y	607	CHL	CHD-C4C	4.56	1.48	1.39
20	4	605	CHL	C3A-C2A	-4.56	1.50	1.54
20	z	605	CHL	CHD-C4C	4.55	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	2	601	CHL	CHC-C4B	4.55	1.47	1.39
20	y	608	CHL	CHD-C4C	4.53	1.48	1.39
20	z	601	CHL	CHB-C1B	4.53	1.47	1.39
20	y	606	CHL	O2A-CGA	4.52	1.45	1.30
20	1	606	CHL	CHC-C1C	4.52	1.48	1.39
20	x	609	CHL	CHD-C4C	4.52	1.48	1.39
20	x	608	CHL	C3B-C2B	4.52	1.46	1.40
20	y	605	CHL	CHD-C1D	4.52	1.46	1.39
20	2	605	CHL	CHD-C4C	4.51	1.48	1.39
20	x	609	CHL	C3B-C2B	4.51	1.46	1.40
20	x	608	CHL	CHD-C4C	4.51	1.48	1.39
20	2	615	CHL	CHD-C4C	4.50	1.48	1.39
20	2	606	CHL	CHD-C4C	4.50	1.48	1.39
20	y	607	CHL	C3B-C2B	4.49	1.46	1.40
20	4	607	CHL	O2A-CGA	4.49	1.45	1.30
20	z	606	CHL	O2A-CGA	4.49	1.45	1.30
20	x	606	CHL	O2A-CGA	4.48	1.45	1.30
20	2	615	CHL	CHD-C1D	4.48	1.46	1.39
20	x	609	CHL	O2A-CGA	4.48	1.45	1.30
20	2	606	CHL	C3A-C2A	-4.47	1.50	1.54
20	3	606	CHL	CHC-C4B	4.47	1.46	1.39
20	z	607	CHL	CHD-C4C	4.47	1.47	1.39
20	z	606	CHL	CHC-C1C	4.47	1.47	1.39
20	x	609	CHL	CHB-C1B	4.47	1.46	1.39
22	4	617	XAT	C18-C5	-4.46	1.45	1.51
20	4	606	CHL	CHC-C4B	4.46	1.46	1.39
20	1	601	CHL	CHB-C1B	4.45	1.46	1.39
20	z	605	CHL	CHD-C1D	4.45	1.46	1.39
20	4	607	CHL	CHD-C4C	4.44	1.47	1.39
20	y	608	CHL	CHC-C1C	4.44	1.47	1.39
20	1	601	CHL	C3D-C2D	4.43	1.47	1.39
20	z	607	CHL	C3B-C2B	4.43	1.46	1.40
20	y	605	CHL	CHB-C1B	4.43	1.46	1.39
20	2	606	CHL	C3B-C2B	4.42	1.46	1.40
20	4	615	CHL	C3D-C2D	4.42	1.47	1.39
20	3	606	CHL	CHD-C4C	4.42	1.47	1.39
20	y	606	CHL	CHC-C1C	4.41	1.47	1.39
20	2	606	CHL	CHD-C1D	4.41	1.46	1.39
20	y	606	CHL	C3B-C2B	4.41	1.46	1.40
20	2	606	CHL	C3D-C2D	4.40	1.47	1.39
20	4	615	CHL	CHB-C1B	4.39	1.46	1.39
20	4	606	CHL	CHB-C1B	4.39	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	y	601	CHL	CHC-C1C	4.39	1.47	1.39
20	z	601	CHL	C3A-C2A	-4.39	1.50	1.54
20	4	606	CHL	C3D-C2D	4.39	1.47	1.39
20	2	606	CHL	CHB-C1B	4.38	1.46	1.39
20	1	606	CHL	CHB-C4A	-4.38	1.33	1.38
20	2	615	CHL	C3D-C2D	4.38	1.47	1.39
27	A	801	CL0	C1A-CHA	4.38	1.44	1.39
20	4	605	CHL	CHD-C1D	4.38	1.46	1.39
20	4	605	CHL	C3B-C2B	4.37	1.46	1.40
20	y	605	CHL	C3D-C2D	4.37	1.47	1.39
20	y	606	CHL	CHD-C1D	4.37	1.46	1.39
20	z	605	CHL	CHB-C1B	4.37	1.46	1.39
20	2	601	CHL	C3B-C2B	4.36	1.46	1.40
20	x	607	CHL	O2A-CGA	4.36	1.46	1.33
20	y	607	CHL	CHD-C1D	4.35	1.46	1.39
20	x	605	CHL	CHD-C4C	4.34	1.47	1.39
20	2	605	CHL	C2C-C3C	4.34	1.46	1.37
20	1	601	CHL	CHC-C1C	4.34	1.47	1.39
20	2	607	CHL	CHD-C4C	4.34	1.47	1.39
20	y	607	CHL	O2A-CGA	4.33	1.46	1.33
20	2	615	CHL	CHB-C1B	4.33	1.46	1.39
20	z	605	CHL	C3D-C2D	4.33	1.47	1.39
20	2	601	CHL	CHD-C4C	4.33	1.47	1.39
20	x	601	CHL	CHC-C1C	4.33	1.47	1.39
20	z	601	CHL	CHC-C1C	4.33	1.47	1.39
20	2	615	CHL	CHC-C1C	4.32	1.47	1.39
20	3	606	CHL	C3D-C2D	4.32	1.47	1.39
20	x	608	CHL	CHD-C1D	4.32	1.46	1.39
20	z	606	CHL	CHB-C1B	4.32	1.46	1.39
20	x	608	CHL	C3D-C2D	4.32	1.47	1.39
20	z	608	CHL	CHD-C4C	4.32	1.47	1.39
20	y	608	CHL	CHD-C1D	4.31	1.46	1.39
20	y	601	CHL	O2A-CGA	4.31	1.45	1.33
20	x	608	CHL	CHB-C1B	4.31	1.46	1.39
20	y	608	CHL	C3A-C2A	-4.30	1.51	1.54
20	x	601	CHL	O2A-CGA	4.30	1.45	1.33
20	z	601	CHL	O2A-CGA	4.30	1.45	1.33
20	3	606	CHL	CHB-C1B	4.30	1.46	1.39
20	z	609	CHL	O2A-CGA	4.29	1.45	1.33
20	z	606	CHL	C3D-C2D	4.29	1.47	1.39
20	x	606	CHL	CHD-C4C	4.29	1.47	1.39
20	4	615	CHL	CHD-C1D	4.29	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	x	606	CHL	C3B-C2B	4.28	1.46	1.40
20	x	609	CHL	CHD-C1D	4.28	1.46	1.39
20	4	606	CHL	CHD-C1D	4.27	1.46	1.39
20	z	608	CHL	O2A-CGA	4.27	1.45	1.33
20	y	607	CHL	CHB-C1B	4.27	1.46	1.39
20	y	608	CHL	C3D-C2D	4.27	1.46	1.39
23	1	615	LHG	O8-C23	4.27	1.45	1.33
20	y	608	CHL	CHB-C1B	4.26	1.46	1.39
20	z	607	CHL	O2A-CGA	4.26	1.45	1.33
20	x	609	CHL	CHC-C1C	4.26	1.47	1.39
20	2	605	CHL	CHD-C1D	4.26	1.46	1.39
20	x	609	CHL	C3D-C2D	4.26	1.46	1.39
20	z	609	CHL	CHB-C4A	-4.25	1.33	1.38
20	x	606	CHL	CHC-C1C	4.25	1.47	1.39
20	y	608	CHL	O2A-CGA	4.25	1.45	1.33
20	x	608	CHL	CHC-C1C	4.25	1.47	1.39
20	3	606	CHL	C3B-C2B	4.24	1.46	1.40
20	2	607	CHL	O2A-CGA	4.24	1.45	1.33
20	y	609	CHL	CHB-C4A	-4.24	1.33	1.38
20	x	605	CHL	O2A-CGA	4.23	1.45	1.33
20	4	605	CHL	CHB-C1B	4.23	1.46	1.39
20	z	607	CHL	CHB-C1B	4.23	1.46	1.39
20	4	605	CHL	C3D-C2D	4.22	1.46	1.39
20	2	605	CHL	C3D-C2D	4.22	1.46	1.39
20	2	605	CHL	CHB-C1B	4.22	1.46	1.39
20	z	607	CHL	CHD-C1D	4.22	1.46	1.39
20	y	605	CHL	CHC-C1C	4.22	1.47	1.39
20	x	601	CHL	C3A-C2A	-4.21	1.51	1.54
20	2	607	CHL	C3B-C2B	4.21	1.46	1.40
20	2	605	CHL	CHC-C1C	4.21	1.47	1.39
20	2	607	CHL	CHC-C1C	4.19	1.47	1.39
20	x	605	CHL	C3B-C2B	4.19	1.46	1.40
30	B	850	DGD	O1G-C1A	4.19	1.45	1.33
20	2	601	CHL	CHB-C1B	4.19	1.46	1.39
20	1	601	CHL	O2A-CGA	4.18	1.45	1.33
20	2	606	CHL	CHC-C1C	4.18	1.47	1.39
20	z	608	CHL	CHB-C1B	4.18	1.46	1.39
20	4	615	CHL	CHC-C1C	4.17	1.47	1.39
20	z	605	CHL	CHC-C1C	4.17	1.47	1.39
20	2	607	CHL	CHB-C1B	4.16	1.46	1.39
20	y	609	CHL	O2A-CGA	4.16	1.45	1.33
20	y	607	CHL	CHC-C1C	4.16	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	801	CL0	O2A-CGA	4.16	1.45	1.33
20	4	606	CHL	CHC-C1C	4.15	1.47	1.39
20	1	601	CHL	C3A-C2A	-4.15	1.51	1.54
20	x	606	CHL	CHB-C1B	4.15	1.46	1.39
20	y	607	CHL	C3D-C2D	4.15	1.46	1.39
20	x	605	CHL	CHB-C1B	4.14	1.46	1.39
20	4	607	CHL	CHC-C1C	4.14	1.47	1.39
20	z	608	CHL	C3B-C2B	4.14	1.46	1.40
20	2	607	CHL	CHD-C1D	4.14	1.46	1.39
20	4	607	CHL	CHD-C1D	4.13	1.46	1.39
20	4	607	CHL	CHB-C1B	4.12	1.46	1.39
20	z	608	CHL	CHD-C1D	4.11	1.46	1.39
22	4	617	XAT	C17-C1	-4.11	1.45	1.53
20	2	605	CHL	C3B-C2B	4.10	1.45	1.40
20	4	605	CHL	CHC-C1C	4.10	1.47	1.39
20	4	607	CHL	C3D-C2D	4.10	1.46	1.39
20	3	606	CHL	CHD-C1D	4.10	1.46	1.39
20	1	606	CHL	C2A-C3A	-4.10	1.51	1.54
20	2	601	CHL	CHD-C1D	4.09	1.46	1.39
30	B	850	DGD	O2G-C1B	4.09	1.45	1.34
20	x	605	CHL	CHC-C1C	4.09	1.47	1.39
23	1	615	LHG	O7-C7	4.08	1.45	1.34
20	2	607	CHL	C3D-C2D	4.08	1.46	1.39
20	y	606	CHL	CHB-C1B	4.08	1.46	1.39
20	2	601	CHL	O2A-CGA	4.08	1.45	1.33
20	z	607	CHL	CHC-C1C	4.07	1.47	1.39
20	x	605	CHL	C3D-C2D	4.07	1.46	1.39
20	z	607	CHL	C3D-C2D	4.07	1.46	1.39
20	y	609	CHL	C3A-C2A	-4.03	1.51	1.54
20	z	608	CHL	C3D-C2D	4.03	1.46	1.39
20	x	607	CHL	CHC-C1C	4.03	1.47	1.39
20	y	601	CHL	C3A-C2A	-4.03	1.51	1.54
20	z	608	CHL	CHC-C1C	4.03	1.47	1.39
20	x	606	CHL	C3D-C2D	4.02	1.46	1.39
20	x	605	CHL	CHD-C1D	4.01	1.46	1.39
22	4	617	XAT	O23-C23	-4.00	1.31	1.43
20	2	601	CHL	CHC-C1C	3.98	1.47	1.39
27	A	801	CL0	C3B-C2B	3.97	1.45	1.40
20	3	606	CHL	CHC-C1C	3.95	1.47	1.39
20	2	601	CHL	C3D-C2D	3.94	1.46	1.39
20	x	606	CHL	CHD-C1D	3.91	1.46	1.39
20	y	606	CHL	C3D-C2D	3.83	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A	801	CL0	OBD-CAD	3.78	1.28	1.22
20	z	609	CHL	C3A-C2A	-3.66	1.51	1.54
21	2	611	CLA	C1D-ND	3.63	1.42	1.37
21	F	303	CLA	C1D-ND	3.63	1.42	1.37
22	4	617	XAT	C10-C9	-3.59	1.27	1.35
27	A	801	CL0	C3D-C2D	3.57	1.45	1.39
21	A	817	CLA	C1D-ND	3.57	1.42	1.37
21	A	845	CLA	C1D-ND	3.56	1.42	1.37
21	G	201	CLA	C1D-ND	3.55	1.42	1.37
21	1	604	CLA	C1D-ND	3.53	1.42	1.37
21	L	304	CLA	C1D-ND	3.53	1.42	1.37
21	3	610	CLA	C1D-ND	3.53	1.42	1.37
21	1	605	CLA	C1D-ND	3.53	1.42	1.37
21	O	201	CLA	C1D-ND	3.53	1.42	1.37
21	J	101	CLA	C1D-ND	3.52	1.42	1.37
21	3	603	CLA	C1D-ND	3.50	1.42	1.37
21	A	828	CLA	C1D-ND	3.49	1.42	1.37
21	B	834	CLA	C1D-ND	3.49	1.42	1.37
21	2	604	CLA	C1D-ND	3.49	1.42	1.37
21	K	201	CLA	C1D-ND	3.48	1.42	1.37
21	1	612	CLA	C1D-ND	3.47	1.42	1.37
21	B	822	CLA	C1D-ND	3.47	1.42	1.37
21	F	302	CLA	C1D-ND	3.46	1.42	1.37
21	1	610	CLA	C1D-ND	3.46	1.42	1.37
21	A	840	CLA	C1D-ND	3.46	1.42	1.37
21	A	811	CLA	C1D-ND	3.45	1.42	1.37
21	A	833	CLA	C1D-ND	3.44	1.42	1.37
21	A	823	CLA	C1D-ND	3.44	1.42	1.37
21	3	611	CLA	C1D-ND	3.44	1.42	1.37
21	A	839	CLA	C1D-ND	3.43	1.42	1.37
21	B	837	CLA	C1D-ND	3.42	1.42	1.37
21	G	203	CLA	C1D-ND	3.42	1.42	1.37
21	y	614	CLA	C1D-ND	3.42	1.42	1.37
21	B	824	CLA	C1D-ND	3.42	1.42	1.37
21	A	831	CLA	C1D-ND	3.41	1.42	1.37
21	4	601	CLA	C1D-ND	3.41	1.42	1.37
21	B	841	CLA	C1D-ND	3.41	1.42	1.37
21	A	820	CLA	C1D-ND	3.40	1.42	1.37
21	4	604	CLA	C1D-ND	3.40	1.42	1.37
21	F	301	CLA	C1D-ND	3.40	1.42	1.37
21	B	835	CLA	C1D-ND	3.40	1.42	1.37
21	A	807	CLA	C1D-ND	3.40	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	608	CLA	C1D-ND	3.40	1.42	1.37
21	B	830	CLA	C1D-ND	3.39	1.42	1.37
21	K	204	CLA	C1D-ND	3.39	1.42	1.37
21	x	602	CLA	C1D-ND	3.39	1.42	1.37
21	A	808	CLA	C1D-ND	3.39	1.42	1.37
21	A	838	CLA	C1D-ND	3.38	1.42	1.37
21	x	614	CLA	C1D-ND	3.38	1.42	1.37
21	A	819	CLA	C1D-ND	3.38	1.42	1.37
21	3	609	CLA	C1D-ND	3.38	1.42	1.37
21	B	827	CLA	C1D-ND	3.38	1.42	1.37
21	A	813	CLA	C1D-ND	3.37	1.42	1.37
21	A	821	CLA	C1D-ND	3.37	1.42	1.37
21	A	837	CLA	C1D-ND	3.37	1.42	1.37
21	B	836	CLA	C1D-ND	3.37	1.42	1.37
22	4	617	XAT	O3-C3	-3.37	1.33	1.43
21	A	832	CLA	C1D-ND	3.37	1.42	1.37
21	A	826	CLA	C1D-ND	3.36	1.42	1.37
21	1	607	CLA	C1D-ND	3.36	1.42	1.37
21	z	604	CLA	C1D-ND	3.36	1.42	1.37
21	A	825	CLA	C1D-ND	3.36	1.42	1.37
21	A	805	CLA	C1D-ND	3.36	1.42	1.37
21	A	816	CLA	C1D-ND	3.36	1.42	1.37
21	B	804	CLA	C1D-ND	3.36	1.42	1.37
21	1	602	CLA	C1D-ND	3.35	1.42	1.37
21	4	610	CLA	C1D-ND	3.35	1.42	1.37
21	y	611	CLA	C1D-ND	3.35	1.42	1.37
21	A	829	CLA	C1D-ND	3.35	1.42	1.37
21	B	812	CLA	C1D-ND	3.35	1.42	1.37
21	A	822	CLA	C1D-ND	3.34	1.42	1.37
21	B	820	CLA	C1D-ND	3.34	1.42	1.37
21	G	202	CLA	C1D-ND	3.34	1.42	1.37
21	4	612	CLA	C1D-ND	3.34	1.42	1.37
21	B	821	CLA	C1D-ND	3.33	1.42	1.37
21	B	833	CLA	C1D-ND	3.33	1.42	1.37
21	A	812	CLA	C1D-ND	3.33	1.42	1.37
21	A	815	CLA	C1D-ND	3.33	1.42	1.37
21	B	817	CLA	C1D-ND	3.33	1.42	1.37
21	y	612	CLA	C1D-ND	3.33	1.42	1.37
21	B	813	CLA	C1D-ND	3.33	1.42	1.37
21	4	608	CLA	C1D-ND	3.33	1.42	1.37
21	1	611	CLA	C1D-ND	3.33	1.42	1.37
21	A	827	CLA	C1D-ND	3.32	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	839	CLA	C1D-ND	3.32	1.42	1.37
21	K	203	CLA	C1D-ND	3.32	1.42	1.37
21	B	819	CLA	C1D-ND	3.32	1.42	1.37
21	K	206	CLA	C1D-ND	3.32	1.42	1.37
21	L	302	CLA	C1D-ND	3.32	1.42	1.37
21	B	815	CLA	C1D-ND	3.32	1.42	1.37
21	B	806	CLA	C1D-ND	3.31	1.42	1.37
21	1	613	CLA	C1D-ND	3.31	1.42	1.37
21	H	201	CLA	C1D-ND	3.31	1.42	1.37
21	x	613	CLA	C1D-ND	3.31	1.42	1.37
21	3	605	CLA	C1D-ND	3.31	1.42	1.37
21	A	824	CLA	C1D-ND	3.30	1.42	1.37
21	B	807	CLA	C1D-ND	3.30	1.42	1.37
21	B	805	CLA	C1D-ND	3.30	1.42	1.37
21	B	826	CLA	C1D-ND	3.30	1.42	1.37
21	4	603	CLA	C1D-ND	3.30	1.42	1.37
21	4	611	CLA	C1D-ND	3.30	1.42	1.37
21	B	823	CLA	C1D-ND	3.30	1.42	1.37
21	B	814	CLA	C1D-ND	3.30	1.42	1.37
21	4	613	CLA	C1D-ND	3.30	1.42	1.37
21	O	203	CLA	CAB-C3B	-3.30	1.44	1.50
21	B	810	CLA	C1D-ND	3.30	1.42	1.37
21	y	604	CLA	C1D-ND	3.30	1.42	1.37
21	2	613	CLA	C1D-ND	3.30	1.42	1.37
21	B	818	CLA	C1D-ND	3.30	1.42	1.37
21	y	610	CLA	C1D-ND	3.30	1.42	1.37
21	B	831	CLA	C1D-ND	3.30	1.42	1.37
21	A	834	CLA	C1D-ND	3.29	1.42	1.37
21	4	614	CLA	C1D-ND	3.29	1.42	1.37
21	y	613	CLA	C1D-ND	3.29	1.42	1.37
21	A	802	CLA	C1D-ND	3.29	1.42	1.37
21	A	806	CLA	C1D-ND	3.28	1.42	1.37
21	B	803	CLA	C1D-ND	3.28	1.42	1.37
21	z	603	CLA	C1D-ND	3.28	1.42	1.37
21	A	814	CLA	C1D-ND	3.28	1.42	1.37
21	B	829	CLA	C1D-ND	3.28	1.42	1.37
21	A	804	CLA	C1D-ND	3.28	1.42	1.37
21	3	602	CLA	C1D-ND	3.28	1.42	1.37
21	B	825	CLA	C1D-ND	3.28	1.42	1.37
21	x	603	CLA	C1D-ND	3.28	1.42	1.37
21	3	601	CLA	C1D-ND	3.27	1.42	1.37
21	z	613	CLA	C1D-ND	3.27	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	O	203	CLA	C1D-ND	3.27	1.42	1.37
21	A	836	CLA	C1D-ND	3.27	1.42	1.37
21	y	603	CLA	C1D-ND	3.27	1.42	1.37
21	1	608	CLA	CAB-C3B	-3.27	1.44	1.50
21	A	844	CLA	C1D-ND	3.26	1.42	1.37
21	O	202	CLA	C1D-ND	3.26	1.42	1.37
21	2	610	CLA	C1D-ND	3.26	1.42	1.37
21	x	604	CLA	C1D-ND	3.26	1.42	1.37
21	4	604	CLA	CAB-C3B	-3.25	1.44	1.50
21	3	607	CLA	C1D-ND	3.25	1.42	1.37
21	B	840	CLA	C1D-ND	3.25	1.42	1.37
21	A	830	CLA	C1D-ND	3.25	1.42	1.37
21	4	602	CLA	C1D-ND	3.25	1.42	1.37
21	B	838	CLA	C1D-ND	3.24	1.42	1.37
21	A	835	CLA	C1D-ND	3.24	1.42	1.37
21	1	613	CLA	CAB-C3B	-3.23	1.44	1.50
21	2	610	CLA	CAB-C3B	-3.23	1.44	1.50
21	A	843	CLA	C1D-ND	3.23	1.42	1.37
21	1	603	CLA	C1D-ND	3.23	1.42	1.37
21	B	816	CLA	C1D-ND	3.23	1.42	1.37
21	L	303	CLA	C1D-ND	3.23	1.42	1.37
21	x	610	CLA	C1D-ND	3.23	1.42	1.37
27	A	801	CL0	CHD-C4C	3.22	1.45	1.39
21	y	602	CLA	C1D-ND	3.21	1.42	1.37
21	4	603	CLA	CAB-C3B	-3.21	1.44	1.50
21	3	604	CLA	C1D-ND	3.21	1.42	1.37
21	B	832	CLA	C1D-ND	3.21	1.42	1.37
21	x	612	CLA	C1D-ND	3.21	1.42	1.37
21	2	602	CLA	C1D-ND	3.21	1.42	1.37
21	1	610	CLA	CAB-C3B	-3.21	1.44	1.50
21	A	810	CLA	C1D-ND	3.20	1.42	1.37
21	z	614	CLA	C1D-ND	3.20	1.42	1.37
21	B	809	CLA	C1D-ND	3.20	1.42	1.37
21	G	201	CLA	C4B-NB	3.19	1.42	1.37
21	z	612	CLA	C1D-ND	3.19	1.42	1.37
21	3	605	CLA	CAB-C3B	-3.19	1.44	1.50
21	A	818	CLA	C1D-ND	3.19	1.42	1.37
21	A	803	CLA	C1D-ND	3.18	1.42	1.37
21	B	838	CLA	C4B-NB	3.18	1.42	1.37
21	B	811	CLA	CAB-C3B	-3.18	1.44	1.50
27	A	801	CL0	CHB-C1B	3.18	1.44	1.39
21	4	609	CLA	C1D-ND	3.17	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	809	CLA	C1D-ND	3.17	1.42	1.37
21	2	608	CLA	C1D-ND	3.16	1.42	1.37
21	B	811	CLA	C1D-ND	3.16	1.42	1.37
21	A	841	CLA	C1D-ND	3.16	1.42	1.37
21	B	808	CLA	C1D-ND	3.15	1.42	1.37
21	F	301	CLA	C4B-NB	3.15	1.42	1.37
21	A	842	CLA	C1D-ND	3.15	1.42	1.37
21	3	612	CLA	C1D-ND	3.15	1.42	1.37
21	z	602	CLA	C1D-ND	3.15	1.42	1.37
21	2	603	CLA	C1D-ND	3.15	1.42	1.37
21	A	821	CLA	C4B-NB	3.15	1.42	1.37
21	z	610	CLA	C1D-ND	3.14	1.42	1.37
21	3	607	CLA	C4B-NB	3.14	1.42	1.37
21	2	612	CLA	C1D-ND	3.12	1.42	1.37
21	2	609	CLA	C1D-ND	3.12	1.42	1.37
21	A	817	CLA	C4B-NB	3.11	1.41	1.37
21	x	611	CLA	C1D-ND	3.11	1.41	1.37
21	A	813	CLA	C4B-NB	3.10	1.41	1.37
21	B	805	CLA	C4B-NB	3.10	1.41	1.37
21	B	812	CLA	C4B-NB	3.09	1.41	1.37
21	L	302	CLA	C4B-NB	3.09	1.41	1.37
21	A	840	CLA	C4B-NB	3.09	1.41	1.37
21	B	835	CLA	C4B-NB	3.08	1.41	1.37
25	B	845	BCR	C23-C22	-3.08	1.39	1.46
21	3	610	CLA	C4B-NB	3.08	1.41	1.37
21	3	611	CLA	C4B-NB	3.06	1.41	1.37
21	A	845	CLA	C4B-NB	3.06	1.41	1.37
21	1	611	CLA	C4B-NB	3.06	1.41	1.37
21	A	819	CLA	C4B-NB	3.05	1.41	1.37
21	B	832	CLA	C4B-NB	3.05	1.41	1.37
21	J	101	CLA	C4B-NB	3.04	1.41	1.37
21	4	604	CLA	C4B-NB	3.03	1.41	1.37
21	A	812	CLA	C4B-NB	3.03	1.41	1.37
21	1	610	CLA	C4B-NB	3.02	1.41	1.37
21	K	204	CLA	C4B-NB	3.02	1.41	1.37
21	B	822	CLA	C4B-NB	3.02	1.41	1.37
21	1	613	CLA	C4B-NB	3.02	1.41	1.37
21	A	814	CLA	C4B-NB	3.01	1.41	1.37
21	G	202	CLA	C4B-NB	3.01	1.41	1.37
21	z	611	CLA	C1D-ND	3.01	1.41	1.37
21	1	612	CLA	C4B-NB	3.01	1.41	1.37
25	B	847	BCR	C23-C22	-3.00	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	807	CLA	C4B-NB	3.00	1.41	1.37
21	F	302	CLA	C4B-NB	3.00	1.41	1.37
21	3	608	CLA	C1D-ND	3.00	1.41	1.37
21	B	828	CLA	C1D-ND	2.99	1.41	1.37
21	A	836	CLA	C4B-NB	2.99	1.41	1.37
21	K	201	CLA	C4B-NB	2.99	1.41	1.37
21	y	613	CLA	C4B-NB	2.99	1.41	1.37
21	B	802	CLA	C1D-ND	2.99	1.41	1.37
21	4	601	CLA	C4B-NB	2.98	1.41	1.37
25	B	848	BCR	C23-C22	-2.98	1.39	1.46
21	x	613	CLA	C4B-NB	2.98	1.41	1.37
25	B	849	BCR	C23-C22	-2.97	1.39	1.46
25	4	618	BCR	C23-C22	-2.97	1.39	1.46
21	1	607	CLA	C4B-NB	2.96	1.41	1.37
21	B	823	CLA	C4B-NB	2.96	1.41	1.37
21	1	605	CLA	C4B-NB	2.96	1.41	1.37
21	L	304	CLA	C4B-NB	2.96	1.41	1.37
21	4	611	CLA	C4B-NB	2.96	1.41	1.37
21	H	201	CLA	C4B-NB	2.95	1.41	1.37
21	3	605	CLA	C4B-NB	2.95	1.41	1.37
21	F	303	CLA	C4B-NB	2.95	1.41	1.37
21	K	206	CLA	C4B-NB	2.94	1.41	1.37
21	2	611	CLA	C4B-NB	2.94	1.41	1.37
21	4	614	CLA	C4B-NB	2.93	1.41	1.37
21	3	604	CLA	C4B-NB	2.93	1.41	1.37
21	B	834	CLA	C4B-NB	2.93	1.41	1.37
21	A	844	CLA	C4B-NB	2.93	1.41	1.37
25	A	852	BCR	C23-C22	-2.93	1.39	1.46
21	3	603	CLA	C4B-NB	2.93	1.41	1.37
25	F	304	BCR	C17-C18	2.92	1.42	1.35
21	3	602	CLA	C4B-NB	2.92	1.41	1.37
25	I	101	BCR	C23-C22	-2.92	1.39	1.46
21	A	810	CLA	C4B-NB	2.92	1.41	1.37
21	B	819	CLA	C4B-NB	2.92	1.41	1.37
25	F	304	BCR	C21-C22	2.92	1.42	1.35
21	O	201	CLA	C4B-NB	2.92	1.41	1.37
21	A	837	CLA	C4B-NB	2.91	1.41	1.37
25	B	801	BCR	C8-C9	-2.91	1.39	1.46
21	1	604	CLA	C4B-NB	2.91	1.41	1.37
21	A	830	CLA	C4B-NB	2.91	1.41	1.37
21	B	804	CLA	C4B-NB	2.91	1.41	1.37
21	2	613	CLA	C4B-NB	2.91	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	824	CLA	C4B-NB	2.91	1.41	1.37
21	A	806	CLA	C4B-NB	2.91	1.41	1.37
21	y	614	CLA	C4B-NB	2.90	1.41	1.37
25	3	614	BCR	C23-C22	-2.90	1.39	1.46
25	L	305	BCR	C8-C9	-2.90	1.39	1.46
21	B	820	CLA	C4B-NB	2.90	1.41	1.37
21	B	802	CLA	C4B-NB	2.90	1.41	1.37
25	A	853	BCR	C10-C9	2.90	1.42	1.35
21	B	810	CLA	C4B-NB	2.90	1.41	1.37
25	B	847	BCR	C8-C9	-2.90	1.39	1.46
21	A	833	CLA	C4B-NB	2.90	1.41	1.37
21	B	840	CLA	C4B-NB	2.89	1.41	1.37
21	B	828	CLA	C4B-NB	2.89	1.41	1.37
21	B	841	CLA	C4B-NB	2.89	1.41	1.37
21	z	612	CLA	C4B-NB	2.89	1.41	1.37
21	4	610	CLA	C4B-NB	2.89	1.41	1.37
21	x	614	CLA	C4B-NB	2.89	1.41	1.37
21	B	824	CLA	C4B-NB	2.89	1.41	1.37
21	B	811	CLA	C4B-NB	2.88	1.41	1.37
25	B	846	BCR	C23-C22	-2.88	1.39	1.46
24	x	615	LUT	C8-C9	-2.88	1.39	1.46
21	2	610	CLA	C4B-NB	2.88	1.41	1.37
21	A	811	CLA	C4B-NB	2.88	1.41	1.37
21	A	818	CLA	C4B-NB	2.87	1.41	1.37
25	O	205	BCR	C8-C9	-2.87	1.39	1.46
21	y	612	CLA	C4B-NB	2.87	1.41	1.37
21	z	611	CLA	C4B-NB	2.87	1.41	1.37
21	4	603	CLA	C4B-NB	2.87	1.41	1.37
25	A	850	BCR	C8-C9	-2.86	1.39	1.46
25	4	618	BCR	C8-C9	-2.86	1.39	1.46
21	A	834	CLA	C4B-NB	2.86	1.41	1.37
21	A	827	CLA	C4B-NB	2.86	1.41	1.37
21	A	808	CLA	C4B-NB	2.85	1.41	1.37
21	B	807	CLA	C4B-NB	2.85	1.41	1.37
25	A	849	BCR	C8-C9	-2.85	1.39	1.46
21	A	826	CLA	C4B-NB	2.85	1.41	1.37
21	y	610	CLA	C4B-NB	2.85	1.41	1.37
21	B	836	CLA	C4B-NB	2.85	1.41	1.37
22	x	617	XAT	C10-C9	2.85	1.42	1.35
21	4	608	CLA	C4B-NB	2.85	1.41	1.37
21	B	803	CLA	C4B-NB	2.85	1.41	1.37
21	A	820	CLA	C4B-NB	2.84	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	L	303	CLA	C4B-NB	2.84	1.41	1.37
21	A	832	CLA	C4B-NB	2.84	1.41	1.37
21	3	609	CLA	C4B-NB	2.84	1.41	1.37
25	A	850	BCR	C23-C22	-2.84	1.39	1.46
21	B	816	CLA	C4B-NB	2.84	1.41	1.37
21	y	603	CLA	C4B-NB	2.83	1.41	1.37
25	B	845	BCR	C21-C22	2.83	1.42	1.35
25	B	848	BCR	C8-C9	-2.83	1.39	1.46
21	B	839	CLA	C4B-NB	2.83	1.41	1.37
21	y	611	CLA	C4B-NB	2.83	1.41	1.37
21	z	614	CLA	C4B-NB	2.83	1.41	1.37
21	A	805	CLA	C4B-NB	2.83	1.41	1.37
25	O	205	BCR	C23-C22	-2.83	1.39	1.46
21	A	825	CLA	C4B-NB	2.83	1.41	1.37
21	x	604	CLA	C4B-NB	2.83	1.41	1.37
21	A	829	CLA	C4B-NB	2.83	1.41	1.37
21	B	825	CLA	C4B-NB	2.83	1.41	1.37
21	A	831	CLA	C4B-NB	2.83	1.41	1.37
21	B	831	CLA	C4B-NB	2.83	1.41	1.37
25	O	204	BCR	C8-C9	-2.82	1.39	1.46
25	A	852	BCR	C8-C9	-2.82	1.39	1.46
21	B	833	CLA	C4B-NB	2.82	1.41	1.37
21	B	813	CLA	C4B-NB	2.82	1.41	1.37
21	B	837	CLA	C4B-NB	2.82	1.41	1.37
21	B	826	CLA	C4B-NB	2.82	1.41	1.37
21	O	202	CLA	C4B-NB	2.82	1.41	1.37
25	A	848	BCR	C8-C9	-2.82	1.39	1.46
21	G	203	CLA	C4B-NB	2.81	1.41	1.37
25	G	204	BCR	C8-C9	-2.81	1.39	1.46
25	L	306	BCR	C23-C22	-2.81	1.39	1.46
24	y	616	LUT	C8-C9	-2.81	1.39	1.46
21	4	613	CLA	C4B-NB	2.81	1.41	1.37
25	A	849	BCR	C23-C22	-2.80	1.40	1.46
25	3	614	BCR	C8-C9	-2.80	1.40	1.46
21	A	816	CLA	C4B-NB	2.80	1.41	1.37
24	3	613	LUT	C8-C9	-2.80	1.40	1.46
25	K	205	BCR	C8-C9	-2.80	1.40	1.46
24	z	616	LUT	C8-C9	-2.80	1.40	1.46
21	1	609	CLA	C1B-C2B	2.79	1.49	1.43
21	2	612	CLA	C4B-NB	2.79	1.41	1.37
21	z	604	CLA	C4B-NB	2.79	1.41	1.37
24	y	615	LUT	C8-C9	-2.79	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	829	CLA	C4B-NB	2.79	1.41	1.37
21	B	817	CLA	C4B-NB	2.78	1.41	1.37
21	A	828	CLA	C4B-NB	2.78	1.41	1.37
21	B	827	CLA	C4B-NB	2.78	1.41	1.37
21	A	838	CLA	C4B-NB	2.77	1.41	1.37
25	L	306	BCR	C8-C9	-2.77	1.40	1.46
21	4	612	CLA	C4B-NB	2.77	1.41	1.37
21	B	830	CLA	C4B-NB	2.77	1.41	1.37
25	G	204	BCR	C23-C22	-2.77	1.40	1.46
25	I	101	BCR	C8-C9	-2.77	1.40	1.46
22	2	617	XAT	C34-C33	2.77	1.42	1.35
21	A	823	CLA	C4B-NB	2.77	1.41	1.37
25	L	301	BCR	C23-C22	-2.77	1.40	1.46
21	A	815	CLA	C4B-NB	2.77	1.41	1.37
21	x	611	CLA	C4B-NB	2.76	1.41	1.37
21	G	201	CLA	C1B-C2B	2.76	1.49	1.43
21	1	609	CLA	CMD-C2D	-2.76	1.45	1.50
22	y	617	XAT	C30-C29	2.76	1.42	1.35
25	B	844	BCR	C8-C9	-2.76	1.40	1.46
25	B	844	BCR	C23-C22	-2.76	1.40	1.46
21	A	842	CLA	C4B-NB	2.76	1.41	1.37
25	O	204	BCR	C23-C22	-2.76	1.40	1.46
21	A	822	CLA	C4B-NB	2.76	1.41	1.37
21	B	821	CLA	C4B-NB	2.76	1.41	1.37
24	1	616	LUT	C8-C9	-2.75	1.40	1.46
21	1	608	CLA	C4B-NB	2.75	1.41	1.37
21	2	602	CLA	C4B-NB	2.75	1.41	1.37
21	2	610	CLA	C1B-C2B	2.75	1.49	1.43
21	B	804	CLA	C1B-C2B	2.75	1.49	1.43
21	z	603	CLA	C4B-NB	2.74	1.41	1.37
21	B	811	CLA	C1B-C2B	2.74	1.49	1.43
24	z	615	LUT	C8-C9	-2.74	1.40	1.46
21	1	603	CLA	C4B-NB	2.74	1.41	1.37
21	A	804	CLA	C4B-NB	2.74	1.41	1.37
25	A	850	BCR	C14-C13	2.74	1.42	1.35
24	4	616	LUT	C8-C9	-2.73	1.40	1.46
21	x	612	CLA	C4B-NB	2.73	1.41	1.37
25	A	850	BCR	C17-C18	2.73	1.42	1.35
21	K	203	CLA	C4B-NB	2.73	1.41	1.37
21	A	841	CLA	C4B-NB	2.73	1.41	1.37
21	2	608	CLA	C4B-NB	2.73	1.41	1.37
25	K	202	BCR	C8-C9	-2.72	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	y	604	CLA	C4B-NB	2.72	1.41	1.37
21	1	602	CLA	C4B-NB	2.72	1.41	1.37
21	B	809	CLA	C4B-NB	2.72	1.41	1.37
24	3	613	LUT	C10-C9	2.72	1.42	1.35
25	A	853	BCR	C23-C22	-2.72	1.40	1.46
21	3	605	CLA	C4B-C3B	2.72	1.49	1.43
21	K	206	CLA	C1B-C2B	2.72	1.49	1.43
25	L	305	BCR	C23-C22	-2.72	1.40	1.46
24	2	616	LUT	C8-C9	-2.71	1.40	1.46
21	z	610	CLA	C4B-NB	2.71	1.41	1.37
21	B	841	CLA	C1B-C2B	2.71	1.49	1.43
21	O	203	CLA	C4B-NB	2.70	1.41	1.37
21	1	602	CLA	C1B-C2B	2.70	1.49	1.43
21	A	843	CLA	C4B-NB	2.70	1.41	1.37
21	y	614	CLA	C1B-C2B	2.70	1.49	1.43
21	F	303	CLA	C1B-C2B	2.70	1.49	1.43
21	4	609	CLA	C4B-NB	2.70	1.41	1.37
21	1	608	CLA	C1B-C2B	2.70	1.49	1.43
25	J	102	BCR	C23-C22	-2.70	1.40	1.46
21	B	803	CLA	C1B-C2B	2.69	1.49	1.43
21	3	610	CLA	C1B-C2B	2.69	1.49	1.43
24	x	616	LUT	C8-C9	-2.69	1.40	1.46
25	A	853	BCR	C8-C9	-2.69	1.40	1.46
21	J	101	CLA	C1B-C2B	2.69	1.49	1.43
21	A	811	CLA	C1B-C2B	2.69	1.49	1.43
25	K	205	BCR	C23-C22	-2.69	1.40	1.46
21	A	839	CLA	C4B-NB	2.69	1.41	1.37
21	H	201	CLA	C1B-C2B	2.69	1.49	1.43
25	B	843	BCR	C23-C22	-2.68	1.40	1.46
21	3	608	CLA	C4B-NB	2.68	1.41	1.37
25	J	102	BCR	C8-C9	-2.68	1.40	1.46
21	A	826	CLA	C1B-C2B	2.68	1.49	1.43
21	1	610	CLA	C1B-C2B	2.68	1.49	1.43
21	A	835	CLA	C4B-NB	2.68	1.41	1.37
25	B	846	BCR	C8-C9	-2.68	1.40	1.46
21	1	611	CLA	C1B-C2B	2.68	1.49	1.43
25	L	301	BCR	C8-C9	-2.67	1.40	1.46
21	3	612	CLA	C4B-NB	2.67	1.41	1.37
21	K	204	CLA	C1B-C2B	2.67	1.49	1.43
21	1	608	CLA	C4B-C3B	2.67	1.49	1.43
21	4	604	CLA	C1B-C2B	2.67	1.49	1.43
24	2	619	LUT	C8-C9	-2.67	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	610	CLA	C4B-C3B	2.67	1.49	1.43
21	1	613	CLA	C4B-C3B	2.67	1.49	1.43
21	1	605	CLA	C1B-C2B	2.66	1.49	1.43
21	A	803	CLA	C4B-NB	2.66	1.41	1.37
21	B	820	CLA	C1B-C2B	2.66	1.49	1.43
21	A	833	CLA	C1B-C2B	2.66	1.49	1.43
21	B	815	CLA	C4B-NB	2.66	1.41	1.37
25	B	849	BCR	C8-C9	-2.66	1.40	1.46
25	B	801	BCR	C23-C22	-2.66	1.40	1.46
21	F	302	CLA	C1B-C2B	2.66	1.49	1.43
21	1	613	CLA	C1B-C2B	2.66	1.49	1.43
21	A	818	CLA	C1B-C2B	2.66	1.49	1.43
21	A	843	CLA	C1B-C2B	2.66	1.49	1.43
25	A	848	BCR	C23-C22	-2.66	1.40	1.46
24	y	615	LUT	C14-C13	2.66	1.41	1.35
21	O	201	CLA	C1B-C2B	2.66	1.49	1.43
20	z	601	CHL	CBD-CGD	-2.66	1.49	1.52
21	B	826	CLA	C1B-C2B	2.66	1.49	1.43
25	B	845	BCR	C8-C9	-2.65	1.40	1.46
21	A	816	CLA	C1B-C2B	2.65	1.49	1.43
21	4	602	CLA	C4B-NB	2.65	1.41	1.37
25	B	843	BCR	C8-C9	-2.65	1.40	1.46
21	z	613	CLA	C4B-NB	2.65	1.41	1.37
21	3	601	CLA	C4B-NB	2.65	1.41	1.37
21	A	809	CLA	C1B-C2B	2.65	1.49	1.43
21	B	824	CLA	C1B-C2B	2.65	1.49	1.43
21	B	808	CLA	C4B-NB	2.64	1.41	1.37
27	A	801	CL0	CHD-C1D	2.64	1.43	1.39
21	x	614	CLA	C1B-C2B	2.64	1.49	1.43
21	A	834	CLA	C1B-C2B	2.64	1.49	1.43
21	B	815	CLA	C1B-C2B	2.64	1.49	1.43
21	B	814	CLA	C4B-NB	2.64	1.41	1.37
21	B	827	CLA	C1B-C2B	2.64	1.49	1.43
21	B	834	CLA	C1B-C2B	2.64	1.49	1.43
27	A	801	CL0	CHC-C4B	2.64	1.43	1.39
24	1	616	LUT	C30-C29	2.64	1.41	1.35
21	y	602	CLA	C4B-NB	2.64	1.41	1.37
21	B	817	CLA	C1B-C2B	2.63	1.49	1.43
27	A	801	CL0	CHC-C1C	2.63	1.44	1.39
21	2	603	CLA	MG-NB	-2.63	2.00	2.05
21	4	611	CLA	C1B-C2B	2.63	1.49	1.43
25	A	851	BCR	C21-C22	2.63	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	x	611	CLA	C1B-C2B	2.63	1.49	1.43
20	y	608	CHL	CBD-CGD	-2.63	1.49	1.52
21	3	611	CLA	C1B-C2B	2.63	1.49	1.43
21	x	613	CLA	C1B-C2B	2.63	1.49	1.43
21	B	806	CLA	C1B-C2B	2.63	1.49	1.43
21	x	603	CLA	C4B-NB	2.62	1.41	1.37
25	F	304	BCR	C8-C9	-2.62	1.40	1.46
21	2	609	CLA	C4B-NB	2.62	1.41	1.37
21	L	304	CLA	C1B-C2B	2.62	1.49	1.43
21	B	830	CLA	C1B-C2B	2.62	1.49	1.43
21	G	203	CLA	C1B-C2B	2.62	1.49	1.43
21	A	830	CLA	C1B-C2B	2.62	1.49	1.43
21	4	604	CLA	C4B-C3B	2.62	1.49	1.43
21	z	611	CLA	C1B-C2B	2.62	1.49	1.43
21	B	806	CLA	C4B-NB	2.62	1.41	1.37
21	G	202	CLA	C1B-C2B	2.62	1.49	1.43
21	A	841	CLA	C1B-C2B	2.61	1.49	1.43
25	B	801	BCR	C10-C9	2.61	1.41	1.35
21	3	605	CLA	C1B-C2B	2.61	1.49	1.43
21	y	602	CLA	C1B-C2B	2.61	1.49	1.43
21	A	806	CLA	C1B-C2B	2.61	1.49	1.43
21	2	611	CLA	C1B-C2B	2.61	1.49	1.43
21	B	839	CLA	C1B-C2B	2.61	1.49	1.43
21	A	802	CLA	C4B-NB	2.61	1.41	1.37
21	A	829	CLA	C1B-C2B	2.61	1.49	1.43
22	4	617	XAT	C30-C29	-2.61	1.29	1.35
21	4	603	CLA	C1B-C2B	2.61	1.49	1.43
21	A	821	CLA	C1B-C2B	2.61	1.49	1.43
21	F	301	CLA	C3B-C4B	2.61	1.50	1.42
21	2	608	CLA	C1B-C2B	2.60	1.49	1.43
21	2	603	CLA	C4B-NB	2.60	1.41	1.37
21	z	614	CLA	C1B-C2B	2.60	1.49	1.43
25	A	851	BCR	C14-C13	2.60	1.41	1.35
21	1	607	CLA	C1B-C2B	2.60	1.49	1.43
21	y	604	CLA	C1B-C2B	2.60	1.49	1.43
21	A	812	CLA	C1B-C2B	2.59	1.49	1.43
21	1	604	CLA	C1B-C2B	2.59	1.49	1.43
21	4	603	CLA	C4B-C3B	2.59	1.49	1.43
21	A	836	CLA	C1B-C2B	2.59	1.49	1.43
21	B	818	CLA	C4B-NB	2.59	1.41	1.37
21	B	805	CLA	C1B-C2B	2.59	1.49	1.43
21	4	614	CLA	C1B-C2B	2.59	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	827	CLA	C1B-C2B	2.59	1.49	1.43
21	A	837	CLA	C1B-C2B	2.59	1.49	1.43
21	B	840	CLA	C1B-C2B	2.59	1.49	1.43
21	A	807	CLA	C1B-C2B	2.59	1.49	1.43
21	A	828	CLA	C1B-C2B	2.59	1.49	1.43
21	K	201	CLA	C1B-C2B	2.59	1.49	1.43
21	K	203	CLA	C1B-C2B	2.58	1.49	1.43
21	A	813	CLA	C1B-C2B	2.58	1.49	1.43
21	A	805	CLA	C1B-C2B	2.58	1.49	1.43
21	1	603	CLA	C1B-C2B	2.58	1.49	1.43
21	A	809	CLA	C4B-NB	2.58	1.41	1.37
25	A	849	BCR	C21-C22	2.58	1.41	1.35
21	2	609	CLA	C1B-C2B	2.58	1.49	1.43
21	z	612	CLA	C1B-C2B	2.58	1.49	1.43
21	A	804	CLA	C1B-C2B	2.58	1.49	1.43
21	B	814	CLA	C1B-C2B	2.58	1.49	1.43
21	3	604	CLA	C1B-C2B	2.58	1.49	1.43
21	2	613	CLA	C1B-C2B	2.57	1.49	1.43
21	4	612	CLA	C1B-C2B	2.57	1.49	1.43
21	O	202	CLA	C1B-C2B	2.57	1.49	1.43
20	x	607	CHL	CBD-CGD	-2.57	1.49	1.52
21	B	838	CLA	C1B-C2B	2.57	1.49	1.43
21	A	821	CLA	C3B-C4B	2.57	1.50	1.42
21	3	607	CLA	C3B-C4B	2.57	1.50	1.42
21	4	610	CLA	C1B-C2B	2.57	1.49	1.43
21	L	303	CLA	C1B-C2B	2.57	1.49	1.43
21	A	819	CLA	C1B-C2B	2.57	1.49	1.43
21	B	823	CLA	C1B-C2B	2.57	1.49	1.43
21	O	203	CLA	C1B-C2B	2.56	1.49	1.43
21	B	837	CLA	C1B-C2B	2.56	1.49	1.43
21	y	611	CLA	C1B-C2B	2.56	1.49	1.43
21	z	613	CLA	C1B-C2B	2.56	1.49	1.43
25	A	851	BCR	C8-C9	-2.56	1.40	1.46
21	1	612	CLA	C1B-C2B	2.56	1.49	1.43
21	A	823	CLA	C1B-C2B	2.55	1.49	1.43
21	z	603	CLA	C1B-C2B	2.55	1.49	1.43
21	B	811	CLA	C4B-C3B	2.55	1.49	1.43
25	K	202	BCR	C23-C22	-2.55	1.40	1.46
21	A	825	CLA	C1B-C2B	2.55	1.49	1.43
21	L	302	CLA	C3B-C4B	2.55	1.50	1.42
21	B	809	CLA	C1B-C2B	2.55	1.49	1.43
21	y	603	CLA	C1B-C2B	2.55	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	824	CLA	C1B-C2B	2.55	1.49	1.43
21	B	835	CLA	C1B-C2B	2.55	1.49	1.43
21	A	840	CLA	C3B-C4B	2.54	1.50	1.42
21	B	813	CLA	C1B-C2B	2.54	1.49	1.43
21	4	602	CLA	C1B-C2B	2.54	1.49	1.43
25	F	304	BCR	C10-C9	2.54	1.41	1.35
21	A	831	CLA	C1B-C2B	2.54	1.49	1.43
25	A	851	BCR	C17-C18	2.54	1.41	1.35
21	y	610	CLA	C1B-C2B	2.54	1.49	1.43
25	A	851	BCR	C23-C22	-2.54	1.40	1.46
21	B	829	CLA	C1B-C2B	2.54	1.49	1.43
21	A	814	CLA	C3B-C4B	2.54	1.50	1.42
21	O	203	CLA	C4B-C3B	2.53	1.49	1.43
22	2	617	XAT	C14-C13	2.53	1.41	1.35
21	2	610	CLA	C4B-C3B	2.53	1.49	1.43
21	4	608	CLA	C1B-C2B	2.53	1.49	1.43
21	A	832	CLA	C1B-C2B	2.53	1.49	1.43
21	x	610	CLA	C1B-C2B	2.53	1.49	1.43
21	A	810	CLA	C1B-C2B	2.52	1.49	1.43
21	A	817	CLA	C1B-C2B	2.52	1.49	1.43
21	B	821	CLA	C1B-C2B	2.52	1.49	1.43
20	y	609	CHL	CBD-CGD	-2.52	1.49	1.52
21	z	610	CLA	C1B-C2B	2.52	1.49	1.43
21	3	608	CLA	C1B-C2B	2.52	1.49	1.43
21	B	822	CLA	C1B-C2B	2.52	1.49	1.43
21	B	831	CLA	C1B-C2B	2.52	1.49	1.43
21	A	808	CLA	C1B-C2B	2.52	1.49	1.43
21	x	602	CLA	C4B-NB	2.52	1.41	1.37
21	B	810	CLA	C1B-C2B	2.52	1.49	1.43
31	y	618	NEX	C12-C13	-2.51	1.40	1.46
21	A	845	CLA	C1B-C2B	2.51	1.49	1.43
31	x	618	NEX	C12-C13	-2.51	1.40	1.46
21	y	613	CLA	C1B-C2B	2.51	1.49	1.43
21	B	833	CLA	C1B-C2B	2.50	1.49	1.43
21	x	602	CLA	C1B-C2B	2.50	1.49	1.43
21	3	612	CLA	C1B-C2B	2.50	1.49	1.43
21	B	807	CLA	C1B-C2B	2.50	1.49	1.43
21	4	601	CLA	C1B-C2B	2.50	1.49	1.43
21	B	832	CLA	C1B-C2B	2.50	1.49	1.43
21	3	609	CLA	C1B-C2B	2.50	1.49	1.43
21	x	610	CLA	C4B-NB	2.50	1.41	1.37
21	3	603	CLA	C1B-C2B	2.50	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	601	CLA	C1B-C2B	2.49	1.49	1.43
25	L	306	BCR	C10-C9	2.49	1.41	1.35
21	2	602	CLA	C1B-C2B	2.49	1.49	1.43
21	A	820	CLA	C1B-C2B	2.49	1.49	1.43
21	2	611	CLA	C3B-C4B	2.49	1.50	1.42
21	4	601	CLA	C3B-C4B	2.49	1.50	1.42
21	3	608	CLA	C3B-C4B	2.49	1.50	1.42
21	A	840	CLA	C1B-C2B	2.49	1.49	1.43
21	B	836	CLA	C1B-C2B	2.49	1.49	1.43
21	F	301	CLA	C1B-C2B	2.49	1.49	1.43
21	B	812	CLA	C1B-C2B	2.49	1.49	1.43
21	y	612	CLA	C1B-C2B	2.49	1.49	1.43
24	x	615	LUT	C12-C13	-2.49	1.40	1.46
21	3	602	CLA	C1B-C2B	2.49	1.49	1.43
25	F	304	BCR	C14-C13	2.48	1.41	1.35
21	B	802	CLA	C3B-C4B	2.48	1.50	1.42
21	A	815	CLA	C1B-C2B	2.48	1.49	1.43
21	z	602	CLA	C1B-C2B	2.48	1.48	1.43
25	L	305	BCR	C12-C13	-2.48	1.40	1.46
21	A	839	CLA	C1B-C2B	2.48	1.48	1.43
24	2	616	LUT	C12-C13	-2.48	1.40	1.46
20	x	605	CHL	CBD-CGD	-2.48	1.49	1.52
24	z	615	LUT	C34-C33	2.47	1.41	1.35
21	B	825	CLA	C1B-C2B	2.47	1.48	1.43
24	x	616	LUT	C28-C29	-2.47	1.40	1.46
21	1	609	CLA	C4B-NB	2.47	1.41	1.37
21	B	838	CLA	C3B-C4B	2.47	1.49	1.42
31	y	618	NEX	C28-C29	-2.47	1.40	1.46
20	3	606	CHL	CBD-CGD	-2.47	1.49	1.52
21	B	808	CLA	C1B-C2B	2.47	1.48	1.43
21	4	613	CLA	C1B-C2B	2.47	1.48	1.43
25	A	851	BCR	C10-C9	2.47	1.41	1.35
21	z	604	CLA	C1B-C2B	2.46	1.48	1.43
24	x	615	LUT	C32-C33	-2.46	1.40	1.46
21	A	813	CLA	C3B-C4B	2.46	1.49	1.42
21	B	828	CLA	C1B-C2B	2.46	1.48	1.43
21	A	817	CLA	C3B-C4B	2.46	1.49	1.42
21	A	838	CLA	C1B-C2B	2.45	1.48	1.43
21	A	835	CLA	C1B-C2B	2.45	1.48	1.43
24	z	616	LUT	C32-C33	-2.45	1.40	1.46
20	z	609	CHL	CBD-CGD	-2.45	1.49	1.52
21	B	832	CLA	C3B-C4B	2.45	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	609	CLA	CMD-C2D	-2.45	1.45	1.50
22	z	617	XAT	C12-C13	-2.45	1.40	1.46
25	I	101	BCR	C12-C13	-2.45	1.40	1.46
21	x	604	CLA	C1B-C2B	2.45	1.48	1.43
25	B	845	BCR	C12-C13	-2.45	1.40	1.46
22	4	617	XAT	C24-C25	-2.45	1.48	1.52
21	A	822	CLA	C1B-C2B	2.45	1.48	1.43
21	A	842	CLA	C1B-C2B	2.45	1.48	1.43
21	1	609	CLA	C1D-ND	2.44	1.41	1.37
25	L	306	BCR	C17-C18	2.44	1.41	1.35
25	B	848	BCR	C12-C13	-2.44	1.40	1.46
21	B	816	CLA	C1B-C2B	2.44	1.48	1.43
25	4	618	BCR	C19-C18	-2.44	1.40	1.46
21	2	612	CLA	C1B-C2B	2.44	1.48	1.43
25	B	846	BCR	C10-C9	2.44	1.41	1.35
21	4	609	CLA	C3B-C4B	2.44	1.49	1.42
24	z	615	LUT	C14-C13	2.44	1.41	1.35
21	B	802	CLA	C1B-C2B	2.43	1.48	1.43
21	2	604	CLA	MG-NB	-2.43	2.01	2.05
25	A	849	BCR	C17-C18	2.43	1.41	1.35
21	A	814	CLA	C1B-C2B	2.43	1.48	1.43
25	B	849	BCR	C14-C13	2.43	1.41	1.35
21	x	603	CLA	C1B-C2B	2.43	1.48	1.43
25	3	614	BCR	C19-C18	-2.43	1.40	1.46
24	2	616	LUT	C34-C33	2.43	1.41	1.35
21	A	807	CLA	C3B-C4B	2.43	1.49	1.42
21	B	818	CLA	C1B-C2B	2.43	1.48	1.43
25	B	848	BCR	C19-C18	-2.42	1.40	1.46
24	z	616	LUT	C12-C13	-2.42	1.40	1.46
24	4	616	LUT	C32-C33	-2.42	1.40	1.46
21	B	823	CLA	C3B-C4B	2.42	1.49	1.42
21	3	608	CLA	CHC-C1C	2.42	1.43	1.38
21	B	805	CLA	C3B-C4B	2.42	1.49	1.42
21	x	612	CLA	C1B-C2B	2.42	1.48	1.43
25	A	853	BCR	C21-C22	2.42	1.41	1.35
20	x	601	CHL	CBD-CGD	-2.42	1.49	1.52
21	B	828	CLA	CMD-C2D	-2.41	1.45	1.50
21	B	812	CLA	C3B-C4B	2.41	1.49	1.42
25	A	848	BCR	C14-C13	2.41	1.41	1.35
24	z	616	LUT	C28-C29	-2.41	1.40	1.46
22	z	617	XAT	C8-C9	-2.41	1.40	1.46
25	A	848	BCR	C21-C22	2.41	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	y	601	CHL	CBD-CGD	-2.41	1.49	1.52
21	z	602	CLA	C4B-NB	2.41	1.41	1.37
25	L	301	BCR	C17-C18	2.41	1.41	1.35
25	O	205	BCR	C12-C13	-2.40	1.40	1.46
25	B	843	BCR	C21-C22	2.40	1.41	1.35
22	2	617	XAT	C28-C29	-2.40	1.40	1.46
22	y	617	XAT	C10-C9	2.40	1.41	1.35
31	x	618	NEX	C32-C33	-2.40	1.40	1.46
25	K	205	BCR	C21-C22	2.40	1.41	1.35
20	4	607	CHL	CBD-CGD	-2.40	1.49	1.52
25	B	847	BCR	C12-C13	-2.40	1.40	1.46
24	z	615	LUT	C28-C29	-2.40	1.40	1.46
22	2	617	XAT	C10-C9	2.40	1.41	1.35
21	3	603	CLA	C3B-C4B	2.40	1.49	1.42
20	y	606	CHL	CBD-CGD	-2.39	1.49	1.52
21	4	609	CLA	C1B-C2B	2.39	1.48	1.43
25	K	202	BCR	C21-C22	2.39	1.41	1.35
25	B	849	BCR	C19-C18	-2.39	1.40	1.46
24	z	615	LUT	C32-C33	-2.39	1.40	1.46
24	1	616	LUT	C10-C9	2.39	1.41	1.35
24	1	616	LUT	C14-C13	2.39	1.41	1.35
25	B	801	BCR	C17-C18	2.39	1.41	1.35
25	B	846	BCR	C17-C18	2.39	1.41	1.35
25	A	852	BCR	C17-C18	2.39	1.41	1.35
24	y	616	LUT	C34-C33	2.39	1.41	1.35
25	J	102	BCR	C10-C9	2.38	1.41	1.35
25	K	202	BCR	C10-C9	2.38	1.41	1.35
21	3	612	CLA	MG-NB	-2.38	2.01	2.05
25	L	301	BCR	C12-C13	-2.38	1.40	1.46
25	3	614	BCR	C12-C13	-2.38	1.40	1.46
21	A	844	CLA	MG-NB	-2.38	2.01	2.05
21	A	803	CLA	MG-NB	-2.38	2.01	2.05
25	A	853	BCR	C17-C18	2.38	1.41	1.35
25	B	844	BCR	C10-C9	2.38	1.41	1.35
21	A	842	CLA	CMB-C2B	-2.38	1.45	1.50
21	B	825	CLA	C3B-C4B	2.38	1.49	1.42
21	B	819	CLA	C1B-C2B	2.38	1.48	1.43
25	L	305	BCR	C21-C22	2.38	1.41	1.35
21	B	828	CLA	C3B-C4B	2.38	1.49	1.42
21	y	612	CLA	C3B-C4B	2.38	1.49	1.42
21	1	609	CLA	MG-NB	-2.38	2.01	2.05
25	J	102	BCR	C21-C22	2.38	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	B	847	BCR	C19-C18	-2.38	1.40	1.46
25	B	849	BCR	C10-C9	2.37	1.41	1.35
21	A	845	CLA	C3B-C4B	2.37	1.49	1.42
21	3	611	CLA	C3B-C4B	2.37	1.49	1.42
21	B	802	CLA	CMD-C2D	-2.37	1.45	1.50
25	O	205	BCR	C19-C18	-2.37	1.40	1.46
24	x	616	LUT	C10-C9	2.37	1.41	1.35
24	4	616	LUT	C12-C13	-2.37	1.40	1.46
21	3	610	CLA	C3B-C4B	2.37	1.49	1.42
22	z	617	XAT	C32-C33	-2.37	1.40	1.46
25	B	845	BCR	C10-C9	2.37	1.41	1.35
24	2	619	LUT	C30-C29	2.37	1.41	1.35
24	2	616	LUT	C10-C9	2.37	1.41	1.35
25	J	102	BCR	C17-C18	2.36	1.41	1.35
21	4	610	CLA	C3B-C4B	2.36	1.49	1.42
25	A	852	BCR	C21-C22	2.36	1.41	1.35
25	L	301	BCR	C10-C9	2.36	1.41	1.35
25	A	850	BCR	C19-C18	-2.36	1.40	1.46
21	A	808	CLA	C3B-C4B	2.36	1.49	1.42
21	z	610	CLA	CMD-C2D	-2.36	1.45	1.50
31	z	618	NEX	C32-C33	-2.36	1.40	1.46
25	L	301	BCR	C14-C13	2.36	1.41	1.35
21	G	202	CLA	C3B-C4B	2.36	1.49	1.42
25	B	843	BCR	C14-C13	2.36	1.41	1.35
20	2	607	CHL	CBD-CGD	-2.36	1.49	1.52
21	4	602	CLA	C3B-C4B	2.36	1.49	1.42
21	F	303	CLA	C3B-C4B	2.36	1.49	1.42
21	2	603	CLA	CMD-C2D	-2.35	1.45	1.50
25	B	843	BCR	C17-C18	2.35	1.41	1.35
24	3	613	LUT	C12-C13	-2.35	1.40	1.46
25	G	204	BCR	C19-C18	-2.35	1.40	1.46
21	A	802	CLA	C1B-C2B	2.35	1.48	1.43
22	x	617	XAT	C30-C29	2.35	1.41	1.35
24	4	616	LUT	C28-C29	-2.35	1.40	1.46
21	3	608	CLA	MG-NB	-2.35	2.01	2.05
25	L	306	BCR	C21-C22	2.35	1.41	1.35
21	A	819	CLA	C3B-C4B	2.35	1.49	1.42
25	B	844	BCR	C14-C13	2.35	1.41	1.35
21	B	810	CLA	C3B-C4B	2.35	1.49	1.42
25	B	801	BCR	C12-C13	-2.35	1.40	1.46
21	B	835	CLA	C3B-C4B	2.35	1.49	1.42
21	y	613	CLA	C3B-C4B	2.35	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	L	305	BCR	C14-C13	2.35	1.41	1.35
21	A	833	CLA	C3B-C4B	2.35	1.49	1.42
24	y	616	LUT	C30-C29	2.35	1.41	1.35
31	y	618	NEX	C32-C33	-2.35	1.40	1.46
21	A	815	CLA	C3B-C4B	2.35	1.49	1.42
21	y	610	CLA	C3B-C4B	2.34	1.49	1.42
21	x	610	CLA	C3B-C4B	2.34	1.49	1.42
25	F	304	BCR	C23-C22	-2.34	1.40	1.46
21	G	201	CLA	C3B-C4B	2.34	1.49	1.42
24	3	613	LUT	C34-C33	2.34	1.41	1.35
21	z	602	CLA	CMC-C2C	-2.34	1.46	1.50
21	3	609	CLA	C3B-C4B	2.34	1.49	1.42
22	z	617	XAT	C28-C29	-2.34	1.40	1.46
21	B	816	CLA	C3B-C4B	2.34	1.49	1.42
25	B	844	BCR	C21-C22	2.34	1.41	1.35
21	B	834	CLA	C3B-C4B	2.34	1.49	1.42
21	2	602	CLA	MG-NB	-2.34	2.01	2.05
24	z	616	LUT	C30-C29	2.34	1.41	1.35
21	1	604	CLA	C3B-C4B	2.34	1.49	1.42
24	2	619	LUT	C14-C13	2.34	1.41	1.35
25	A	848	BCR	C17-C18	2.34	1.41	1.35
21	4	609	CLA	CHC-C1C	2.34	1.43	1.38
25	B	845	BCR	C17-C18	2.34	1.41	1.35
25	B	846	BCR	C14-C13	2.33	1.41	1.35
21	1	611	CLA	C3B-C4B	2.33	1.49	1.42
25	L	301	BCR	C21-C22	2.33	1.41	1.35
31	y	618	NEX	C14-C13	2.33	1.41	1.35
21	1	603	CLA	MG-NB	-2.33	2.01	2.05
21	J	101	CLA	C3B-C4B	2.33	1.49	1.42
24	3	613	LUT	C32-C33	-2.33	1.41	1.46
24	2	619	LUT	C10-C9	2.33	1.41	1.35
21	1	605	CLA	CHC-C1C	2.33	1.43	1.38
25	B	849	BCR	C17-C18	2.33	1.41	1.35
21	A	842	CLA	MG-NB	-2.33	2.01	2.05
31	x	618	NEX	C28-C29	-2.33	1.41	1.46
25	L	306	BCR	C14-C13	2.33	1.41	1.35
31	z	618	NEX	C28-C29	-2.33	1.41	1.46
25	J	102	BCR	C14-C13	2.33	1.41	1.35
25	I	101	BCR	C19-C18	-2.33	1.41	1.46
21	L	302	CLA	C1B-C2B	2.33	1.48	1.43
24	z	615	LUT	C10-C9	2.32	1.41	1.35
21	A	805	CLA	C3B-C4B	2.32	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	z	602	CLA	MG-NB	-2.32	2.01	2.05
21	A	828	CLA	C3B-C4B	2.32	1.49	1.42
25	B	801	BCR	C14-C13	2.32	1.41	1.35
21	B	808	CLA	MG-NB	-2.32	2.01	2.05
21	4	603	CLA	CMD-C2D	-2.32	1.46	1.50
21	B	816	CLA	CHC-C1C	2.32	1.43	1.38
24	2	616	LUT	C32-C33	-2.32	1.41	1.46
24	4	616	LUT	C34-C33	2.32	1.41	1.35
25	A	853	BCR	C14-C13	2.32	1.41	1.35
21	x	603	CLA	MG-NB	-2.32	2.01	2.05
21	B	822	CLA	CHC-C1C	2.32	1.43	1.38
20	x	607	CHL	CHA-CBD	-2.32	1.49	1.51
25	I	101	BCR	C14-C13	2.32	1.41	1.35
22	2	617	XAT	C30-C29	2.32	1.41	1.35
21	2	604	CLA	CMD-C2D	-2.32	1.46	1.50
25	B	801	BCR	C19-C18	-2.32	1.41	1.46
25	B	846	BCR	C19-C18	-2.32	1.41	1.46
24	y	616	LUT	C12-C13	-2.32	1.41	1.46
21	B	837	CLA	C3B-C4B	2.32	1.49	1.42
24	y	616	LUT	C28-C29	-2.32	1.41	1.46
25	A	849	BCR	C14-C13	2.31	1.41	1.35
25	L	305	BCR	C10-C9	2.31	1.41	1.35
20	y	607	CHL	CBD-CGD	-2.31	1.49	1.52
21	4	611	CLA	C3B-C4B	2.31	1.49	1.42
21	B	819	CLA	CMB-C2B	-2.31	1.46	1.50
25	O	204	BCR	C12-C13	-2.31	1.41	1.46
21	A	814	CLA	CHC-C1C	2.31	1.43	1.38
25	G	204	BCR	C17-C18	2.31	1.41	1.35
24	1	616	LUT	C12-C13	-2.31	1.41	1.46
24	2	616	LUT	C28-C29	-2.31	1.41	1.46
21	A	838	CLA	C3B-C4B	2.31	1.49	1.42
22	x	617	XAT	C14-C13	2.31	1.41	1.35
24	y	615	LUT	C10-C9	2.31	1.41	1.35
21	B	822	CLA	C3B-C4B	2.31	1.49	1.42
21	3	607	CLA	CMB-C2B	-2.31	1.46	1.50
21	A	836	CLA	CMB-C2B	-2.31	1.46	1.50
21	L	303	CLA	C3B-C4B	2.30	1.49	1.42
25	O	204	BCR	C10-C9	2.30	1.41	1.35
24	x	616	LUT	C32-C33	-2.30	1.41	1.46
21	2	603	CLA	C1B-C2B	2.30	1.48	1.43
21	z	614	CLA	C3B-C4B	2.30	1.49	1.42
25	B	848	BCR	C14-C13	2.30	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	609	CLA	MG-NB	-2.30	2.01	2.05
21	A	806	CLA	C3B-C4B	2.30	1.49	1.42
21	A	825	CLA	C3B-C4B	2.30	1.49	1.42
25	G	204	BCR	C12-C13	-2.30	1.41	1.46
21	4	613	CLA	C3B-C4B	2.30	1.49	1.42
21	4	614	CLA	C3B-C4B	2.30	1.49	1.42
20	z	607	CHL	CBD-CGD	-2.30	1.49	1.52
21	A	812	CLA	CHC-C1C	2.30	1.43	1.38
21	A	828	CLA	CHC-C1C	2.30	1.43	1.38
21	z	613	CLA	MG-NB	-2.30	2.01	2.05
21	z	604	CLA	C3B-C4B	2.30	1.49	1.42
21	B	821	CLA	C3B-C4B	2.30	1.49	1.42
21	B	840	CLA	C3B-C4B	2.30	1.49	1.42
21	K	204	CLA	C3B-C4B	2.30	1.49	1.42
22	y	617	XAT	C14-C13	2.30	1.41	1.35
21	x	612	CLA	MG-NB	-2.30	2.01	2.05
25	A	848	BCR	C10-C9	2.30	1.41	1.35
24	2	619	LUT	C34-C33	2.29	1.41	1.35
21	3	603	CLA	MG-NB	-2.29	2.01	2.05
24	x	615	LUT	C14-C13	2.29	1.41	1.35
21	A	844	CLA	CHC-C1C	2.29	1.43	1.38
21	2	604	CLA	C4B-NB	2.29	1.40	1.37
21	B	804	CLA	C3B-C4B	2.29	1.49	1.42
21	A	827	CLA	C3B-C4B	2.29	1.49	1.42
21	x	613	CLA	C3B-C4B	2.29	1.49	1.42
25	B	849	BCR	C12-C13	-2.29	1.41	1.46
21	A	803	CLA	C1B-C2B	2.29	1.48	1.43
31	z	618	NEX	C30-C29	2.29	1.41	1.35
21	B	818	CLA	MG-NB	-2.29	2.01	2.05
24	2	619	LUT	C12-C13	-2.29	1.41	1.46
21	1	604	CLA	CHC-C1C	2.29	1.43	1.38
21	B	823	CLA	CHC-C1C	2.29	1.43	1.38
24	x	616	LUT	C14-C13	2.29	1.41	1.35
21	B	817	CLA	CMC-C2C	-2.29	1.46	1.50
21	O	203	CLA	MG-NB	-2.29	2.01	2.05
22	x	617	XAT	C34-C33	2.29	1.41	1.35
25	B	847	BCR	C10-C9	2.29	1.41	1.35
21	3	609	CLA	CMD-C2D	-2.29	1.46	1.50
25	B	845	BCR	C19-C18	-2.29	1.41	1.46
25	B	846	BCR	C21-C22	2.29	1.41	1.35
21	1	603	CLA	CMD-C2D	-2.29	1.46	1.50
21	1	608	CLA	CMD-C2D	-2.29	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	A	850	BCR	C21-C22	2.29	1.41	1.35
21	3	602	CLA	MG-NB	-2.29	2.01	2.05
25	O	204	BCR	C19-C18	-2.29	1.41	1.46
25	B	801	BCR	C21-C22	2.29	1.41	1.35
21	x	614	CLA	C3B-C4B	2.29	1.49	1.42
24	3	613	LUT	C28-C29	-2.29	1.41	1.46
22	1	614	XAT	O24-C25	-2.28	1.43	1.46
21	z	603	CLA	CMD-C2D	-2.28	1.46	1.50
21	A	808	CLA	CHC-C1C	2.28	1.43	1.38
21	O	203	CLA	CMD-C2D	-2.28	1.46	1.50
21	A	837	CLA	C3B-C4B	2.28	1.49	1.42
25	G	204	BCR	C21-C22	2.28	1.41	1.35
21	B	822	CLA	CMB-C2B	-2.28	1.46	1.50
21	z	612	CLA	MG-NB	-2.28	2.01	2.05
21	K	201	CLA	C3B-C4B	2.28	1.49	1.42
24	z	616	LUT	C14-C13	2.28	1.41	1.35
21	B	833	CLA	C3B-C4B	2.28	1.49	1.42
25	A	852	BCR	C14-C13	2.28	1.41	1.35
21	4	608	CLA	CMB-C2B	-2.28	1.46	1.50
21	y	603	CLA	CMD-C2D	-2.28	1.46	1.50
21	2	613	CLA	CMD-C2D	-2.28	1.46	1.50
21	B	836	CLA	C3B-C4B	2.28	1.49	1.42
21	L	302	CLA	CMB-C2B	-2.28	1.46	1.50
25	4	618	BCR	C12-C13	-2.28	1.41	1.46
25	A	850	BCR	C12-C13	-2.28	1.41	1.46
25	K	202	BCR	C14-C13	2.28	1.41	1.35
22	y	617	XAT	C8-C9	-2.28	1.41	1.46
21	3	602	CLA	CMB-C2B	-2.28	1.46	1.50
21	A	812	CLA	C3B-C4B	2.27	1.49	1.42
24	2	619	LUT	C32-C33	-2.27	1.41	1.46
21	2	604	CLA	CMB-C2B	-2.27	1.46	1.50
21	A	822	CLA	CMB-C2B	-2.27	1.46	1.50
21	3	601	CLA	MG-NB	-2.27	2.01	2.05
21	3	607	CLA	C1B-C2B	2.27	1.48	1.43
21	A	844	CLA	C1B-C2B	2.27	1.48	1.43
25	L	305	BCR	C19-C18	-2.27	1.41	1.46
21	x	603	CLA	CMD-C2D	-2.27	1.46	1.50
31	x	618	NEX	C30-C29	2.27	1.41	1.35
21	B	836	CLA	CHC-C1C	2.27	1.43	1.38
21	2	612	CLA	MG-NB	-2.27	2.01	2.05
21	1	605	CLA	C3B-C4B	2.27	1.49	1.42
21	A	819	CLA	CHC-C1C	2.27	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	G	203	CLA	CHC-C1C	2.27	1.43	1.38
21	B	830	CLA	C3B-C4B	2.27	1.49	1.42
21	B	818	CLA	C3B-C4B	2.27	1.49	1.42
21	O	201	CLA	C3B-C4B	2.27	1.49	1.42
21	B	835	CLA	CHC-C1C	2.27	1.43	1.38
25	I	101	BCR	C17-C18	2.27	1.41	1.35
21	A	810	CLA	C3B-C4B	2.27	1.49	1.42
21	1	607	CLA	C3B-C4B	2.27	1.49	1.42
21	B	839	CLA	C3B-C4B	2.27	1.49	1.42
25	K	205	BCR	C14-C13	2.27	1.41	1.35
21	2	612	CLA	C3B-C4B	2.27	1.49	1.42
21	A	841	CLA	C3B-C4B	2.27	1.49	1.42
21	3	612	CLA	CMD-C2D	-2.27	1.46	1.50
21	x	604	CLA	MG-NB	-2.26	2.01	2.05
22	y	617	XAT	C34-C33	2.26	1.41	1.35
25	A	852	BCR	C10-C9	2.26	1.41	1.35
21	2	604	CLA	C1B-C2B	2.26	1.48	1.43
25	L	305	BCR	C17-C18	2.26	1.41	1.35
25	G	204	BCR	C14-C13	2.26	1.41	1.35
21	O	202	CLA	MG-NB	-2.26	2.01	2.05
21	2	602	CLA	CMD-C2D	-2.26	1.46	1.50
31	z	618	NEX	C14-C13	2.26	1.41	1.35
21	L	304	CLA	C3B-C4B	2.26	1.49	1.42
21	x	602	CLA	MG-NB	-2.26	2.01	2.05
24	y	615	LUT	C30-C29	2.26	1.41	1.35
21	B	803	CLA	CMC-C2C	-2.26	1.46	1.50
25	4	618	BCR	C17-C18	2.26	1.41	1.35
25	O	204	BCR	C17-C18	2.26	1.41	1.35
21	2	602	CLA	CHC-C1C	2.26	1.43	1.38
21	y	602	CLA	MG-NB	-2.26	2.01	2.05
21	B	826	CLA	CHC-C1C	2.26	1.43	1.38
21	B	817	CLA	C3B-C4B	2.26	1.49	1.42
21	B	829	CLA	C3B-C4B	2.26	1.49	1.42
21	3	602	CLA	C3B-C4B	2.26	1.49	1.42
21	A	830	CLA	CMD-C2D	-2.26	1.46	1.50
21	1	612	CLA	MG-NB	-2.26	2.01	2.05
21	A	805	CLA	CHC-C1C	2.26	1.43	1.38
21	1	605	CLA	CMD-C2D	-2.26	1.46	1.50
21	B	841	CLA	C3B-C4B	2.26	1.49	1.42
21	A	820	CLA	C3B-C4B	2.25	1.49	1.42
21	z	602	CLA	C3B-C4B	2.25	1.49	1.42
25	4	618	BCR	C14-C13	2.25	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	z	612	CLA	C3B-C4B	2.25	1.49	1.42
21	B	826	CLA	C3B-C4B	2.25	1.49	1.42
21	x	604	CLA	CMB-C2B	-2.25	1.46	1.50
21	z	611	CLA	CMB-C2B	-2.25	1.46	1.50
21	4	608	CLA	C3B-C4B	2.25	1.49	1.42
21	3	604	CLA	C3B-C4B	2.25	1.49	1.42
21	A	810	CLA	MG-NB	-2.25	2.01	2.05
21	A	810	CLA	CMD-C2D	-2.25	1.46	1.50
21	B	821	CLA	MG-NB	-2.25	2.01	2.05
21	4	604	CLA	CMB-C2B	-2.25	1.46	1.50
21	K	203	CLA	C3B-C4B	2.25	1.49	1.42
25	K	205	BCR	C19-C18	-2.25	1.41	1.46
25	B	844	BCR	C12-C13	-2.25	1.41	1.46
21	4	613	CLA	CMB-C2B	-2.25	1.46	1.50
21	K	206	CLA	C3B-C4B	2.25	1.49	1.42
21	2	611	CLA	CMD-C2D	-2.25	1.46	1.50
25	3	614	BCR	C21-C22	2.25	1.41	1.35
21	A	836	CLA	C3B-C4B	2.25	1.49	1.42
21	B	821	CLA	CHC-C1C	2.25	1.43	1.38
21	2	611	CLA	CHC-C1C	2.25	1.43	1.38
21	L	302	CLA	CHC-C1C	2.25	1.43	1.38
21	B	829	CLA	CMB-C2B	-2.25	1.46	1.50
21	z	614	CLA	CMD-C2D	-2.25	1.46	1.50
21	A	811	CLA	C3B-C4B	2.25	1.49	1.42
21	y	603	CLA	C3B-C4B	2.25	1.49	1.42
25	J	102	BCR	C12-C13	-2.25	1.41	1.46
21	A	806	CLA	CHC-C1C	2.25	1.43	1.38
21	B	830	CLA	CHC-C1C	2.25	1.43	1.38
21	2	602	CLA	C3B-C4B	2.25	1.49	1.42
21	x	603	CLA	CMB-C2B	-2.24	1.46	1.50
21	y	604	CLA	C3B-C4B	2.24	1.49	1.42
25	A	849	BCR	C10-C9	2.24	1.41	1.35
21	A	834	CLA	C3B-C4B	2.24	1.49	1.42
21	B	819	CLA	C3B-C4B	2.24	1.49	1.42
21	y	603	CLA	MG-NB	-2.24	2.01	2.05
21	2	609	CLA	C3B-C4B	2.24	1.49	1.42
21	y	614	CLA	C3B-C4B	2.24	1.49	1.42
21	A	822	CLA	CHC-C1C	2.24	1.43	1.38
24	y	616	LUT	C14-C13	2.24	1.41	1.35
21	A	820	CLA	CHC-C1C	2.24	1.43	1.38
21	x	611	CLA	MG-NB	-2.24	2.01	2.05
21	2	613	CLA	MG-NB	-2.24	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	z	614	CLA	MG-NB	-2.24	2.01	2.05
21	B	802	CLA	CMB-C2B	-2.24	1.46	1.50
21	A	816	CLA	C3B-C4B	2.24	1.49	1.42
21	A	802	CLA	MG-NB	-2.24	2.01	2.05
21	z	611	CLA	CMD-C2D	-2.24	1.46	1.50
21	y	611	CLA	MG-NB	-2.24	2.01	2.05
21	x	602	CLA	CMD-C2D	-2.24	1.46	1.50
21	2	613	CLA	CHC-C1C	2.24	1.43	1.38
21	A	833	CLA	CHC-C1C	2.24	1.43	1.38
21	J	101	CLA	CHC-C1C	2.24	1.43	1.38
21	z	610	CLA	C3B-C4B	2.24	1.49	1.42
21	x	610	CLA	MG-NB	-2.24	2.01	2.05
21	y	611	CLA	CHC-C1C	2.24	1.43	1.38
25	A	849	BCR	C19-C18	-2.24	1.41	1.46
21	L	304	CLA	CHC-C1C	2.23	1.43	1.38
21	4	613	CLA	CMD-C2D	-2.23	1.46	1.50
24	x	616	LUT	C12-C13	-2.23	1.41	1.46
21	4	603	CLA	MG-NB	-2.23	2.01	2.05
21	x	613	CLA	MG-NB	-2.23	2.01	2.05
22	z	617	XAT	C14-C13	2.23	1.41	1.35
25	B	849	BCR	C21-C22	2.23	1.41	1.35
21	z	602	CLA	CMD-C2D	-2.23	1.46	1.50
21	y	610	CLA	CHC-C1C	2.23	1.43	1.38
21	3	608	CLA	CMD-C2D	-2.23	1.46	1.50
21	B	805	CLA	CHC-C1C	2.23	1.43	1.38
25	3	614	BCR	C17-C18	2.23	1.41	1.35
21	x	602	CLA	C3B-C4B	2.23	1.49	1.42
21	z	612	CLA	CMB-C2B	-2.23	1.46	1.50
21	y	612	CLA	CHC-C1C	2.23	1.43	1.38
21	A	842	CLA	C3B-C4B	2.23	1.49	1.42
25	A	848	BCR	C12-C13	-2.23	1.41	1.46
21	B	809	CLA	C3B-C4B	2.23	1.49	1.42
21	B	804	CLA	CHC-C1C	2.23	1.43	1.38
25	3	614	BCR	C14-C13	2.23	1.41	1.35
21	1	612	CLA	CMB-C2B	-2.23	1.46	1.50
21	A	809	CLA	C3B-C4B	2.23	1.49	1.42
20	y	609	CHL	CHA-CBD	-2.23	1.49	1.51
21	x	604	CLA	C3B-C4B	2.23	1.49	1.42
25	4	618	BCR	C10-C9	2.23	1.41	1.35
21	4	610	CLA	CHC-C1C	2.23	1.42	1.38
21	F	301	CLA	CHC-C1C	2.23	1.42	1.38
21	H	201	CLA	C3B-C4B	2.23	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	602	CLA	CMD-C2D	-2.23	1.46	1.50
25	K	205	BCR	C10-C9	2.23	1.40	1.35
21	z	604	CLA	MG-NB	-2.23	2.01	2.05
20	2	605	CHL	CBD-CGD	-2.23	1.49	1.52
21	A	815	CLA	CHC-C1C	2.23	1.42	1.38
21	2	608	CLA	C3B-C4B	2.23	1.49	1.42
21	A	830	CLA	C3B-C4B	2.22	1.49	1.42
21	B	829	CLA	CHC-C1C	2.22	1.42	1.38
21	z	612	CLA	CMD-C2D	-2.22	1.46	1.50
21	G	203	CLA	C3B-C4B	2.22	1.49	1.42
21	2	610	CLA	MG-NB	-2.22	2.01	2.05
21	2	609	CLA	CMC-C2C	-2.22	1.46	1.50
21	x	614	CLA	MG-NB	-2.22	2.01	2.05
21	G	201	CLA	CHC-C1C	2.22	1.42	1.38
21	B	813	CLA	CMC-C2C	-2.22	1.46	1.50
21	3	601	CLA	C3B-C4B	2.22	1.49	1.42
21	K	203	CLA	MG-NB	-2.22	2.01	2.05
20	2	615	CHL	CBD-CGD	-2.22	1.49	1.52
21	2	613	CLA	C3B-C4B	2.22	1.49	1.42
21	A	824	CLA	C3B-C4B	2.22	1.49	1.42
25	B	844	BCR	C17-C18	2.22	1.40	1.35
21	B	808	CLA	CMD-C2D	-2.22	1.46	1.50
21	3	605	CLA	CHC-C1C	2.22	1.42	1.38
21	2	612	CLA	CMD-C2D	-2.22	1.46	1.50
21	z	613	CLA	CMD-C2D	-2.22	1.46	1.50
21	1	607	CLA	CMD-C2D	-2.22	1.46	1.50
21	3	607	CLA	CMD-C2D	-2.22	1.46	1.50
21	B	829	CLA	CMD-C2D	-2.22	1.46	1.50
21	4	608	CLA	MG-NB	-2.22	2.01	2.05
25	3	614	BCR	C10-C9	2.22	1.40	1.35
25	A	852	BCR	C19-C18	-2.22	1.41	1.46
25	A	849	BCR	C12-C13	-2.22	1.41	1.46
25	O	205	BCR	C14-C13	2.22	1.40	1.35
25	B	847	BCR	C21-C22	2.22	1.40	1.35
31	z	618	NEX	C12-C13	-2.22	1.41	1.46
21	A	845	CLA	CHC-C1C	2.22	1.42	1.38
21	y	613	CLA	CHC-C1C	2.22	1.42	1.38
21	B	815	CLA	C3B-C4B	2.22	1.49	1.42
21	x	611	CLA	CMD-C2D	-2.22	1.46	1.50
25	4	618	BCR	C21-C22	2.22	1.40	1.35
21	A	814	CLA	CMD-C2D	-2.22	1.46	1.50
21	4	602	CLA	CHC-C1C	2.22	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	831	CLA	CHC-C1C	2.22	1.42	1.38
21	z	610	CLA	MG-NB	-2.22	2.01	2.05
21	O	202	CLA	CMD-C2D	-2.22	1.46	1.50
25	K	202	BCR	C17-C18	2.22	1.40	1.35
21	3	609	CLA	MG-NB	-2.21	2.01	2.05
21	L	303	CLA	CHC-C1C	2.21	1.42	1.38
21	y	602	CLA	C3B-C4B	2.21	1.49	1.42
25	B	843	BCR	C10-C9	2.21	1.40	1.35
21	1	611	CLA	CMB-C2B	-2.21	1.46	1.50
21	A	802	CLA	C3B-C4B	2.21	1.49	1.42
21	B	811	CLA	CHC-C1C	2.21	1.42	1.38
21	z	611	CLA	C3B-C4B	2.21	1.49	1.42
21	B	834	CLA	CMD-C2D	-2.21	1.46	1.50
24	1	616	LUT	C34-C33	2.21	1.40	1.35
21	1	603	CLA	C3B-C4B	2.21	1.49	1.42
21	B	814	CLA	MG-NB	-2.21	2.01	2.05
21	1	611	CLA	CHC-C1C	2.21	1.42	1.38
21	A	838	CLA	CHC-C1C	2.21	1.42	1.38
25	O	204	BCR	C14-C13	2.21	1.40	1.35
21	B	815	CLA	CHC-C1C	2.21	1.42	1.38
24	z	616	LUT	C10-C9	2.21	1.40	1.35
22	x	617	XAT	C32-C33	-2.21	1.41	1.46
21	A	835	CLA	MG-NB	-2.21	2.01	2.05
21	B	813	CLA	C3B-C4B	2.21	1.49	1.42
21	1	610	CLA	CHC-C1C	2.21	1.42	1.38
25	O	204	BCR	C21-C22	2.21	1.40	1.35
21	1	602	CLA	MG-NB	-2.21	2.01	2.05
21	4	611	CLA	MG-NB	-2.21	2.01	2.05
21	y	611	CLA	C3B-C4B	2.21	1.49	1.42
21	A	823	CLA	C3B-C4B	2.21	1.49	1.42
21	4	601	CLA	CMD-C2D	-2.21	1.46	1.50
21	B	833	CLA	CMD-C2D	-2.21	1.46	1.50
21	A	832	CLA	C3B-C4B	2.21	1.49	1.42
21	3	601	CLA	CMD-C2D	-2.21	1.46	1.50
21	4	609	CLA	MG-NB	-2.21	2.01	2.05
21	z	611	CLA	MG-NB	-2.21	2.01	2.05
21	A	839	CLA	C3B-C4B	2.21	1.49	1.42
24	x	616	LUT	C30-C29	2.20	1.40	1.35
21	B	825	CLA	CHC-C1C	2.20	1.42	1.38
21	y	603	CLA	CMC-C2C	-2.20	1.46	1.50
21	2	608	CLA	MG-NB	-2.20	2.01	2.05
21	F	303	CLA	MG-NB	-2.20	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	604	CLA	CMB-C2B	-2.20	1.46	1.50
21	x	611	CLA	C3B-C4B	2.20	1.49	1.42
24	x	615	LUT	C28-C29	-2.20	1.41	1.46
25	B	847	BCR	C14-C13	2.20	1.40	1.35
21	x	613	CLA	CMD-C2D	-2.20	1.46	1.50
21	4	611	CLA	CMD-C2D	-2.20	1.46	1.50
21	4	602	CLA	CMD-C2D	-2.20	1.46	1.50
25	B	843	BCR	C12-C13	-2.20	1.41	1.46
21	B	833	CLA	CHC-C1C	2.20	1.42	1.38
21	A	803	CLA	CMD-C2D	-2.20	1.46	1.50
21	B	828	CLA	CMB-C2B	-2.20	1.46	1.50
24	z	615	LUT	C30-C29	2.20	1.40	1.35
21	A	831	CLA	CMB-C2B	-2.20	1.46	1.50
21	A	843	CLA	MG-NB	-2.20	2.01	2.05
21	B	831	CLA	C3B-C4B	2.20	1.49	1.42
21	A	811	CLA	CHC-C1C	2.20	1.42	1.38
21	A	842	CLA	CMD-C2D	-2.20	1.46	1.50
21	y	604	CLA	CMD-C2D	-2.20	1.46	1.50
21	B	819	CLA	MG-NB	-2.20	2.01	2.05
21	4	612	CLA	C3B-C4B	2.20	1.49	1.42
21	B	826	CLA	MG-NB	-2.20	2.01	2.05
21	3	611	CLA	CHC-C1C	2.20	1.42	1.38
25	K	202	BCR	C19-C18	-2.20	1.41	1.46
24	3	613	LUT	C30-C29	2.20	1.40	1.35
31	x	618	NEX	C14-C13	2.20	1.40	1.35
21	B	809	CLA	CMB-C2B	-2.20	1.46	1.50
21	y	610	CLA	CMD-C2D	-2.20	1.46	1.50
21	B	813	CLA	CHC-C1C	2.20	1.42	1.38
21	4	610	CLA	MG-NB	-2.20	2.01	2.05
22	2	617	XAT	C32-C33	-2.20	1.41	1.46
21	3	605	CLA	CMB-C2B	-2.20	1.46	1.50
21	A	818	CLA	MG-NB	-2.20	2.01	2.05
21	B	836	CLA	MG-NB	-2.20	2.01	2.05
21	A	823	CLA	CHC-C1C	2.20	1.42	1.38
21	A	822	CLA	C3B-C4B	2.20	1.49	1.42
24	z	616	LUT	C34-C33	2.20	1.40	1.35
21	B	833	CLA	MG-NB	-2.20	2.01	2.05
21	B	814	CLA	CMD-C2D	-2.19	1.46	1.50
21	B	834	CLA	CMB-C2B	-2.19	1.46	1.50
24	y	615	LUT	C32-C33	-2.19	1.41	1.46
21	z	603	CLA	MG-NB	-2.19	2.01	2.05
25	B	845	BCR	C14-C13	2.19	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	4	616	LUT	C30-C29	2.19	1.40	1.35
21	2	610	CLA	CMD-C2D	-2.19	1.46	1.50
21	A	839	CLA	CMD-C2D	-2.19	1.46	1.50
21	B	834	CLA	CHC-C1C	2.19	1.42	1.38
24	x	615	LUT	C34-C33	2.19	1.40	1.35
21	A	818	CLA	C3B-C4B	2.19	1.49	1.42
21	x	610	CLA	CMC-C2C	-2.19	1.46	1.50
21	y	602	CLA	CHC-C1C	2.19	1.42	1.38
25	B	848	BCR	C17-C18	2.19	1.40	1.35
21	A	835	CLA	CMD-C2D	-2.19	1.46	1.50
21	A	806	CLA	CMB-C2B	-2.19	1.46	1.50
25	I	101	BCR	C10-C9	2.19	1.40	1.35
21	A	824	CLA	CHC-C1C	2.19	1.42	1.38
24	4	616	LUT	C14-C13	2.19	1.40	1.35
21	z	604	CLA	CHC-C1C	2.19	1.42	1.38
21	2	612	CLA	CMB-C2B	-2.19	1.46	1.50
21	3	601	CLA	CMC-C2C	-2.19	1.46	1.50
21	A	837	CLA	CHC-C1C	2.19	1.42	1.38
21	B	828	CLA	CHC-C1C	2.19	1.42	1.38
21	B	838	CLA	CHC-C1C	2.19	1.42	1.38
21	O	202	CLA	CHC-C1C	2.19	1.42	1.38
21	4	614	CLA	MG-NB	-2.19	2.01	2.05
21	2	608	CLA	CMD-C2D	-2.19	1.46	1.50
21	B	823	CLA	CMD-C2D	-2.19	1.46	1.50
21	z	610	CLA	CMC-C2C	-2.19	1.46	1.50
25	A	853	BCR	C19-C18	-2.19	1.41	1.46
21	K	201	CLA	CHC-C1C	2.19	1.42	1.38
20	z	608	CHL	CBD-CGD	-2.19	1.49	1.52
21	1	613	CLA	MG-NB	-2.19	2.01	2.05
21	4	612	CLA	MG-NB	-2.19	2.01	2.05
21	4	603	CLA	CMB-C2B	-2.19	1.46	1.50
21	B	806	CLA	C3B-C4B	2.19	1.49	1.42
21	A	827	CLA	CHC-C1C	2.19	1.42	1.38
21	A	822	CLA	MG-NB	-2.19	2.01	2.05
24	x	616	LUT	C34-C33	2.19	1.40	1.35
21	B	824	CLA	C3B-C4B	2.19	1.49	1.42
21	B	837	CLA	CHC-C1C	2.19	1.42	1.38
21	A	812	CLA	CMD-C2D	-2.19	1.46	1.50
21	B	820	CLA	C3B-C4B	2.19	1.49	1.42
25	O	205	BCR	C17-C18	2.18	1.40	1.35
21	A	810	CLA	CMB-C2B	-2.18	1.46	1.50
21	x	610	CLA	CMD-C2D	-2.18	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	1	605	CLA	MG-NB	-2.18	2.01	2.05
21	y	610	CLA	MG-NB	-2.18	2.01	2.05
21	y	602	CLA	CMD-C2D	-2.18	1.46	1.50
21	B	816	CLA	MG-NB	-2.18	2.01	2.05
20	x	608	CHL	CBD-CGD	-2.18	1.49	1.52
21	1	609	CLA	CMB-C2B	-2.18	1.46	1.50
21	4	610	CLA	CMD-C2D	-2.18	1.46	1.50
21	B	807	CLA	C3B-C4B	2.18	1.49	1.42
21	A	809	CLA	CHC-C1C	2.18	1.42	1.38
21	A	809	CLA	CMD-C2D	-2.18	1.46	1.50
21	G	202	CLA	CMD-C2D	-2.18	1.46	1.50
21	y	612	CLA	CMD-C2D	-2.18	1.46	1.50
21	B	813	CLA	MG-NB	-2.18	2.01	2.05
21	B	814	CLA	C3B-C4B	2.18	1.49	1.42
21	A	844	CLA	C3B-C4B	2.18	1.49	1.42
21	A	829	CLA	CHC-C1C	2.18	1.42	1.38
21	B	810	CLA	MG-NB	-2.18	2.01	2.05
21	y	614	CLA	CMD-C2D	-2.18	1.46	1.50
21	x	614	CLA	CHC-C1C	2.18	1.42	1.38
21	A	844	CLA	CMB-C2B	-2.18	1.46	1.50
25	A	850	BCR	C10-C9	2.18	1.40	1.35
21	F	302	CLA	C3B-C4B	2.18	1.49	1.42
21	3	604	CLA	MG-NB	-2.18	2.01	2.05
21	A	824	CLA	MG-NB	-2.18	2.01	2.05
25	O	205	BCR	C21-C22	2.18	1.40	1.35
21	2	610	CLA	CMB-C2B	-2.18	1.46	1.50
21	x	612	CLA	CMB-C2B	-2.18	1.46	1.50
21	A	839	CLA	MG-NB	-2.18	2.01	2.05
21	A	806	CLA	CMD-C2D	-2.18	1.46	1.50
21	A	814	CLA	CMC-C2C	-2.18	1.46	1.50
21	K	206	CLA	CHC-C1C	2.18	1.42	1.38
21	z	602	CLA	CHC-C1C	2.18	1.42	1.38
21	A	806	CLA	CMC-C2C	-2.18	1.46	1.50
21	y	612	CLA	MG-NB	-2.18	2.01	2.05
21	1	610	CLA	CMD-C2D	-2.18	1.46	1.50
21	A	845	CLA	CMB-C2B	-2.18	1.46	1.50
21	A	816	CLA	CHC-C1C	2.18	1.42	1.38
25	I	101	BCR	C21-C22	2.17	1.40	1.35
21	A	832	CLA	CMB-C2B	-2.17	1.46	1.50
21	B	810	CLA	CMD-C2D	-2.17	1.46	1.50
21	A	834	CLA	CHC-C1C	2.17	1.42	1.38
21	1	609	CLA	MG-ND	-2.17	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	613	CLA	CMB-C2B	-2.17	1.46	1.50
21	z	604	CLA	CMD-C2D	-2.17	1.46	1.50
21	z	603	CLA	CMB-C2B	-2.17	1.46	1.50
25	B	848	BCR	C10-C9	2.17	1.40	1.35
21	B	808	CLA	CMC-C2C	-2.17	1.46	1.50
21	4	608	CLA	CMD-C2D	-2.17	1.46	1.50
21	B	835	CLA	CMB-C2B	-2.17	1.46	1.50
21	B	839	CLA	CMB-C2B	-2.17	1.46	1.50
21	A	830	CLA	CHC-C1C	2.17	1.42	1.38
24	y	616	LUT	C32-C33	-2.17	1.41	1.46
21	4	611	CLA	CMB-C2B	-2.17	1.46	1.50
21	y	614	CLA	CMB-C2B	-2.17	1.46	1.50
21	A	819	CLA	CMC-C2C	-2.17	1.46	1.50
21	K	201	CLA	MG-NB	-2.17	2.01	2.05
21	A	826	CLA	MG-NB	-2.17	2.01	2.05
20	z	609	CHL	CHA-CBD	-2.17	1.49	1.51
21	A	813	CLA	CHC-C1C	2.17	1.42	1.38
21	A	836	CLA	CMD-C2D	-2.17	1.46	1.50
20	x	606	CHL	CBD-CGD	-2.17	1.49	1.52
22	2	617	XAT	C12-C13	-2.17	1.41	1.46
21	3	611	CLA	CMB-C2B	-2.17	1.46	1.50
21	x	604	CLA	CMD-C2D	-2.17	1.46	1.50
21	y	604	CLA	MG-NB	-2.17	2.01	2.05
21	B	840	CLA	CMB-C2B	-2.17	1.46	1.50
21	4	612	CLA	CMD-C2D	-2.16	1.46	1.50
21	H	201	CLA	MG-NB	-2.16	2.01	2.05
21	2	609	CLA	CHC-C1C	2.16	1.42	1.38
21	x	611	CLA	CMB-C2B	-2.16	1.46	1.50
21	A	805	CLA	MG-NB	-2.16	2.01	2.05
25	K	205	BCR	C17-C18	2.16	1.40	1.35
21	A	843	CLA	CMD-C2D	-2.16	1.46	1.50
21	3	605	CLA	MG-NB	-2.16	2.01	2.05
21	A	804	CLA	MG-NB	-2.16	2.01	2.05
21	A	825	CLA	CHC-C1C	2.16	1.42	1.38
21	B	807	CLA	CHC-C1C	2.16	1.42	1.38
25	G	204	BCR	C10-C9	2.16	1.40	1.35
21	B	817	CLA	CHC-C1C	2.16	1.42	1.38
21	z	614	CLA	CHC-C1C	2.16	1.42	1.38
21	x	603	CLA	CMC-C2C	-2.16	1.46	1.50
21	A	818	CLA	CMC-C2C	-2.16	1.46	1.50
21	z	604	CLA	CMB-C2B	-2.16	1.46	1.50
21	B	840	CLA	CMD-C2D	-2.16	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	807	CLA	CHC-C1C	2.16	1.42	1.38
24	2	619	LUT	C28-C29	-2.16	1.41	1.46
21	B	836	CLA	CMB-C2B	-2.16	1.46	1.50
21	2	612	CLA	CHC-C1C	2.16	1.42	1.38
21	z	603	CLA	C3B-C4B	2.16	1.49	1.42
21	B	811	CLA	CMB-C2B	-2.16	1.46	1.50
21	A	841	CLA	MG-NB	-2.16	2.01	2.05
21	3	607	CLA	CHC-C1C	2.16	1.42	1.38
21	4	613	CLA	CHC-C1C	2.16	1.42	1.38
21	B	812	CLA	CHC-C1C	2.16	1.42	1.38
21	B	815	CLA	CMD-C2D	-2.16	1.46	1.50
24	x	615	LUT	C10-C9	2.16	1.40	1.35
21	1	613	CLA	CMB-C2B	-2.16	1.46	1.50
21	B	806	CLA	MG-NB	-2.16	2.01	2.05
21	3	609	CLA	CHC-C1C	2.16	1.42	1.38
31	z	618	NEX	C34-C33	2.16	1.40	1.35
21	1	602	CLA	CMD-C2D	-2.16	1.46	1.50
21	A	824	CLA	CMD-C2D	-2.16	1.46	1.50
21	B	809	CLA	MG-NB	-2.16	2.01	2.05
21	1	602	CLA	CMB-C2B	-2.15	1.46	1.50
21	L	304	CLA	CMB-C2B	-2.15	1.46	1.50
21	B	832	CLA	MG-NB	-2.15	2.01	2.05
21	x	612	CLA	C3B-C4B	2.15	1.49	1.42
21	K	204	CLA	CMB-C2B	-2.15	1.46	1.50
21	1	611	CLA	MG-NB	-2.15	2.01	2.05
21	4	611	CLA	CHC-C1C	2.15	1.42	1.38
21	x	613	CLA	CMB-C2B	-2.15	1.46	1.50
21	3	610	CLA	CHC-C1C	2.15	1.42	1.38
21	B	820	CLA	CMD-C2D	-2.15	1.46	1.50
21	y	603	CLA	CMB-C2B	-2.15	1.46	1.50
22	x	617	XAT	C28-C29	-2.15	1.41	1.46
21	A	821	CLA	CMD-C2D	-2.15	1.46	1.50
21	B	810	CLA	CHC-C1C	2.15	1.42	1.38
21	3	609	CLA	CMB-C2B	-2.15	1.46	1.50
21	H	201	CLA	CMD-C2D	-2.15	1.46	1.50
21	A	832	CLA	CHC-C1C	2.15	1.42	1.38
21	A	835	CLA	C3B-C4B	2.15	1.49	1.42
21	1	613	CLA	CMD-C2D	-2.15	1.46	1.50
21	B	831	CLA	CHC-C1C	2.15	1.42	1.38
21	2	602	CLA	CMB-C2B	-2.15	1.46	1.50
21	A	802	CLA	CMD-C2D	-2.15	1.46	1.50
21	z	611	CLA	CMC-C2C	-2.15	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	K	202	BCR	C12-C13	-2.15	1.41	1.46
21	A	817	CLA	CHC-C1C	2.15	1.42	1.38
21	4	609	CLA	CMC-C2C	-2.15	1.46	1.50
21	A	831	CLA	C3B-C4B	2.15	1.49	1.42
21	A	826	CLA	CMB-C2B	-2.15	1.46	1.50
21	A	837	CLA	CMD-C2D	-2.15	1.46	1.50
21	1	613	CLA	CHC-C1C	2.15	1.42	1.38
21	O	203	CLA	CHC-C1C	2.15	1.42	1.38
21	1	612	CLA	C3B-C4B	2.15	1.49	1.42
22	y	617	XAT	C28-C29	-2.15	1.41	1.46
21	A	841	CLA	CMD-C2D	-2.15	1.46	1.50
21	B	841	CLA	CHC-C1C	2.15	1.42	1.38
21	K	206	CLA	MG-NB	-2.15	2.01	2.05
21	A	803	CLA	CMB-C2B	-2.15	1.46	1.50
21	B	805	CLA	CMD-C2D	-2.15	1.46	1.50
21	3	604	CLA	CHC-C1C	2.15	1.42	1.38
21	4	609	CLA	CMB-C2B	-2.15	1.46	1.50
21	B	809	CLA	CMD-C2D	-2.15	1.46	1.50
21	A	804	CLA	C3B-C4B	2.15	1.49	1.42
21	B	840	CLA	MG-NB	-2.15	2.01	2.05
21	4	614	CLA	CHC-C1C	2.15	1.42	1.38
24	y	615	LUT	C12-C13	-2.15	1.41	1.46
21	A	819	CLA	CMD-C2D	-2.15	1.46	1.50
21	F	302	CLA	CMD-C2D	-2.15	1.46	1.50
21	2	604	CLA	C3B-C4B	2.15	1.49	1.42
25	A	848	BCR	C19-C18	-2.15	1.41	1.46
21	1	610	CLA	MG-NB	-2.15	2.01	2.05
21	y	614	CLA	MG-NB	-2.14	2.01	2.05
21	A	813	CLA	CMB-C2B	-2.14	1.46	1.50
21	y	613	CLA	CMB-C2B	-2.14	1.46	1.50
21	F	302	CLA	CHC-C1C	2.14	1.42	1.38
21	A	826	CLA	CMD-C2D	-2.14	1.46	1.50
21	B	822	CLA	CMD-C2D	-2.14	1.46	1.50
24	x	615	LUT	C30-C29	2.14	1.40	1.35
21	B	809	CLA	CHC-C1C	2.14	1.42	1.38
21	A	837	CLA	MG-NB	-2.14	2.01	2.05
21	4	602	CLA	MG-NB	-2.14	2.01	2.05
21	B	821	CLA	CMD-C2D	-2.14	1.46	1.50
21	x	612	CLA	CMD-C2D	-2.14	1.46	1.50
22	z	617	XAT	C34-C33	2.14	1.40	1.35
22	x	617	XAT	C8-C9	-2.14	1.41	1.46
21	1	612	CLA	CMD-C2D	-2.14	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	604	CLA	CMD-C2D	-2.14	1.46	1.50
21	3	612	CLA	CMC-C2C	-2.14	1.46	1.50
21	A	824	CLA	CMB-C2B	-2.14	1.46	1.50
21	A	804	CLA	CHC-C1C	2.14	1.42	1.38
21	G	202	CLA	CHC-C1C	2.14	1.42	1.38
21	B	811	CLA	CMD-C2D	-2.14	1.46	1.50
31	y	618	NEX	C34-C33	2.14	1.40	1.35
21	B	827	CLA	CMB-C2B	-2.14	1.46	1.50
25	B	847	BCR	C17-C18	2.14	1.40	1.35
21	1	602	CLA	C3B-C4B	2.14	1.49	1.42
21	A	822	CLA	CMD-C2D	-2.14	1.46	1.50
21	B	838	CLA	CMB-C2B	-2.14	1.46	1.50
21	1	603	CLA	CMC-C2C	-2.14	1.46	1.50
21	A	817	CLA	CMD-C2D	-2.14	1.46	1.50
21	z	614	CLA	CMB-C2B	-2.14	1.46	1.50
21	4	604	CLA	CHC-C1C	2.14	1.42	1.38
21	K	204	CLA	CHC-C1C	2.14	1.42	1.38
21	3	604	CLA	CMC-C2C	-2.14	1.46	1.50
21	B	821	CLA	CMB-C2B	-2.14	1.46	1.50
21	O	201	CLA	CMD-C2D	-2.14	1.46	1.50
21	A	832	CLA	MG-NB	-2.14	2.01	2.05
21	B	828	CLA	MG-NB	-2.14	2.01	2.05
21	A	804	CLA	CMD-C2D	-2.14	1.46	1.50
21	O	202	CLA	CMB-C2B	-2.14	1.46	1.50
21	O	203	CLA	CMB-C2B	-2.14	1.46	1.50
21	2	612	CLA	CMC-C2C	-2.14	1.46	1.50
21	A	815	CLA	CMD-C2D	-2.14	1.46	1.50
21	B	813	CLA	CMB-C2B	-2.14	1.46	1.50
21	G	202	CLA	MG-NB	-2.14	2.01	2.05
21	A	818	CLA	CMD-C2D	-2.14	1.46	1.50
21	A	820	CLA	CMD-C2D	-2.14	1.46	1.50
21	A	804	CLA	CMB-C2B	-2.14	1.46	1.50
21	3	608	CLA	CMC-C2C	-2.13	1.46	1.50
21	A	802	CLA	CMB-C2B	-2.13	1.46	1.50
21	A	821	CLA	CHC-C1C	2.13	1.42	1.38
31	x	618	NEX	C34-C33	2.13	1.40	1.35
21	A	816	CLA	MG-NB	-2.13	2.01	2.05
21	4	614	CLA	CMB-C2B	-2.13	1.46	1.50
21	A	843	CLA	C3B-C4B	2.13	1.49	1.42
21	1	611	CLA	CMD-C2D	-2.13	1.46	1.50
21	y	604	CLA	CMB-C2B	-2.13	1.46	1.50
21	O	201	CLA	CHC-C1C	2.13	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	833	CLA	MG-NB	-2.13	2.01	2.05
21	A	827	CLA	CMB-C2B	-2.13	1.46	1.50
21	A	814	CLA	CMB-C2B	-2.13	1.46	1.50
20	x	609	CHL	CBD-CGD	-2.13	1.49	1.52
21	1	604	CLA	CMB-C2B	-2.13	1.46	1.50
21	A	834	CLA	CMD-C2D	-2.13	1.46	1.50
21	A	845	CLA	CMD-C2D	-2.13	1.46	1.50
21	L	302	CLA	MG-NB	-2.13	2.01	2.05
21	x	604	CLA	CHC-C1C	2.13	1.42	1.38
21	1	603	CLA	CMB-C2B	-2.13	1.46	1.50
21	G	203	CLA	MG-NB	-2.13	2.01	2.05
21	x	614	CLA	CMD-C2D	-2.13	1.46	1.50
21	B	819	CLA	CMD-C2D	-2.13	1.46	1.50
21	x	603	CLA	C3B-C4B	2.13	1.48	1.42
21	x	612	CLA	CHC-C1C	2.13	1.42	1.38
21	B	836	CLA	CMD-C2D	-2.13	1.46	1.50
21	1	603	CLA	CHC-C1C	2.13	1.42	1.38
21	B	824	CLA	CHC-C1C	2.13	1.42	1.38
21	1	608	CLA	MG-NB	-2.13	2.01	2.05
21	A	808	CLA	MG-NB	-2.13	2.01	2.05
22	z	617	XAT	C10-C9	2.13	1.40	1.35
21	3	605	CLA	CMD-C2D	-2.13	1.46	1.50
21	A	808	CLA	CMB-C2B	-2.13	1.46	1.50
21	B	813	CLA	CMD-C2D	-2.13	1.46	1.50
21	K	201	CLA	CBD-CAD	2.13	1.56	1.51
21	B	802	CLA	CHC-C1C	2.13	1.42	1.38
21	B	807	CLA	MG-NB	-2.13	2.01	2.05
21	y	602	CLA	CMC-C2C	-2.13	1.46	1.50
21	B	820	CLA	CHC-C1C	2.13	1.42	1.38
25	B	843	BCR	C19-C18	-2.13	1.41	1.46
21	y	603	CLA	CHC-C1C	2.13	1.42	1.38
21	B	827	CLA	C3B-C4B	2.13	1.48	1.42
21	z	610	CLA	CHC-C1C	2.12	1.42	1.38
21	A	831	CLA	CMD-C2D	-2.12	1.46	1.50
21	B	817	CLA	MG-NB	-2.12	2.01	2.05
21	1	608	CLA	CMB-C2B	-2.12	1.46	1.50
21	B	806	CLA	CMD-C2D	-2.12	1.46	1.50
21	K	204	CLA	CMC-C2C	-2.12	1.46	1.50
21	4	612	CLA	CHC-C1C	2.12	1.42	1.38
21	B	803	CLA	CMB-C2B	-2.12	1.46	1.50
21	F	301	CLA	CMD-C2D	-2.12	1.46	1.50
21	2	608	CLA	CHC-C1C	2.12	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	4	612	CLA	CMC-C2C	-2.12	1.46	1.50
21	4	614	CLA	CMD-C2D	-2.12	1.46	1.50
21	B	815	CLA	CMC-C2C	-2.12	1.46	1.50
21	K	201	CLA	CMC-C2C	-2.12	1.46	1.50
21	1	607	CLA	CHC-C1C	2.12	1.42	1.38
21	B	820	CLA	MG-NB	-2.12	2.01	2.05
21	4	609	CLA	CMD-C2D	-2.12	1.46	1.50
21	B	823	CLA	MG-NB	-2.12	2.01	2.05
20	z	606	CHL	CBD-CGD	-2.12	1.49	1.52
21	A	803	CLA	CHC-C1C	2.12	1.42	1.38
21	A	810	CLA	CHC-C1C	2.12	1.42	1.38
21	B	827	CLA	CHC-C1C	2.12	1.42	1.38
21	x	613	CLA	CHC-C1C	2.12	1.42	1.38
24	y	616	LUT	C10-C9	2.12	1.40	1.35
24	z	615	LUT	C12-C13	-2.12	1.41	1.46
21	1	607	CLA	CMB-C2B	-2.12	1.46	1.50
21	A	845	CLA	CMC-C2C	-2.12	1.46	1.50
21	B	808	CLA	CMB-C2B	-2.12	1.46	1.50
21	A	832	CLA	CMD-C2D	-2.12	1.46	1.50
21	G	202	CLA	CMB-C2B	-2.12	1.46	1.50
21	B	805	CLA	CMB-C2B	-2.12	1.46	1.50
21	B	839	CLA	CMD-C2D	-2.12	1.46	1.50
21	O	202	CLA	C3B-C4B	2.12	1.48	1.42
22	y	617	XAT	C12-C13	-2.12	1.41	1.46
21	A	813	CLA	CMD-C2D	-2.12	1.46	1.50
21	B	836	CLA	CMC-C2C	-2.12	1.46	1.50
22	x	617	XAT	C12-C13	-2.12	1.41	1.46
21	1	610	CLA	CMB-C2B	-2.12	1.46	1.50
21	3	609	CLA	CMC-C2C	-2.12	1.46	1.50
21	4	601	CLA	CMB-C2B	-2.12	1.46	1.50
21	B	826	CLA	CMD-C2D	-2.12	1.46	1.50
21	K	201	CLA	CMD-C2D	-2.12	1.46	1.50
21	x	602	CLA	CMB-C2B	-2.12	1.46	1.50
21	B	808	CLA	C3B-C4B	2.12	1.48	1.42
21	B	823	CLA	CMB-C2B	-2.12	1.46	1.50
21	B	827	CLA	MG-NB	-2.12	2.01	2.05
21	A	820	CLA	CMB-C2B	-2.12	1.46	1.50
21	B	812	CLA	CMB-C2B	-2.12	1.46	1.50
21	4	601	CLA	CHC-C1C	2.12	1.42	1.38
24	2	616	LUT	C14-C13	2.12	1.40	1.35
25	A	853	BCR	C12-C13	-2.12	1.41	1.46
21	A	827	CLA	CMD-C2D	-2.12	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	825	CLA	CMD-C2D	-2.12	1.46	1.50
21	A	838	CLA	MG-NB	-2.12	2.01	2.05
21	B	829	CLA	MG-NB	-2.12	2.01	2.05
21	y	612	CLA	CMB-C2B	-2.11	1.46	1.50
25	B	846	BCR	C12-C13	-2.11	1.41	1.46
21	B	831	CLA	MG-NB	-2.11	2.01	2.05
21	A	837	CLA	CMB-C2B	-2.11	1.46	1.50
21	K	203	CLA	CHC-C1C	2.11	1.42	1.38
21	2	604	CLA	CMC-C2C	-2.11	1.46	1.50
21	A	818	CLA	CMB-C2B	-2.11	1.46	1.50
21	G	203	CLA	CMD-C2D	-2.11	1.46	1.50
21	K	206	CLA	CMD-C2D	-2.11	1.46	1.50
21	A	826	CLA	C3B-C4B	2.11	1.48	1.42
21	A	838	CLA	CMB-C2B	-2.11	1.46	1.50
21	A	844	CLA	CMD-C2D	-2.11	1.46	1.50
21	A	819	CLA	CMB-C2B	-2.11	1.46	1.50
21	A	838	CLA	CMD-C2D	-2.11	1.46	1.50
21	1	608	CLA	CHC-C1C	2.11	1.42	1.38
21	2	602	CLA	CMC-C2C	-2.11	1.46	1.50
21	A	829	CLA	CMD-C2D	-2.11	1.46	1.50
21	B	817	CLA	CMB-C2B	-2.11	1.46	1.50
21	B	824	CLA	MG-NB	-2.11	2.01	2.05
21	B	805	CLA	CMC-C2C	-2.11	1.46	1.50
21	1	605	CLA	CMB-C2B	-2.11	1.46	1.50
21	B	803	CLA	MG-NB	-2.11	2.01	2.05
24	2	616	LUT	C30-C29	2.11	1.40	1.35
21	A	825	CLA	CMB-C2B	-2.11	1.46	1.50
21	y	611	CLA	CMD-C2D	-2.11	1.46	1.50
21	z	612	CLA	CMC-C2C	-2.11	1.46	1.50
21	4	604	CLA	CMD-C2D	-2.11	1.46	1.50
21	K	206	CLA	CMB-C2B	-2.11	1.46	1.50
21	1	602	CLA	CHC-C1C	2.11	1.42	1.38
21	A	839	CLA	CHC-C1C	2.11	1.42	1.38
21	B	819	CLA	CHC-C1C	2.11	1.42	1.38
21	4	603	CLA	CHC-C1C	2.11	1.42	1.38
21	A	835	CLA	CHC-C1C	2.11	1.42	1.38
21	B	823	CLA	CMC-C2C	-2.11	1.46	1.50
21	z	613	CLA	CMB-C2B	-2.11	1.46	1.50
21	3	603	CLA	CMB-C2B	-2.11	1.46	1.50
21	B	810	CLA	CMB-C2B	-2.11	1.46	1.50
21	y	613	CLA	MG-NB	-2.11	2.01	2.05
21	B	830	CLA	CMB-C2B	-2.11	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	B	841	CLA	MG-NB	-2.11	2.01	2.05
21	B	839	CLA	CHC-C1C	2.11	1.42	1.38
21	2	603	CLA	CMC-C2C	-2.11	1.46	1.50
21	K	203	CLA	CMB-C2B	-2.11	1.46	1.50
22	y	617	XAT	C32-C33	-2.11	1.41	1.46
21	B	837	CLA	MG-NB	-2.11	2.01	2.05
21	B	816	CLA	CMD-C2D	-2.10	1.46	1.50
21	4	604	CLA	MG-NB	-2.10	2.01	2.05
21	A	829	CLA	MG-NB	-2.10	2.01	2.05
21	2	608	CLA	CMB-C2B	-2.10	1.46	1.50
21	L	303	CLA	CMD-C2D	-2.10	1.46	1.50
21	z	610	CLA	CMB-C2B	-2.10	1.46	1.50
21	B	838	CLA	CMD-C2D	-2.10	1.46	1.50
21	A	840	CLA	CMB-C2B	-2.10	1.46	1.50
25	L	306	BCR	C12-C13	-2.10	1.41	1.46
21	1	602	CLA	CMC-C2C	-2.10	1.46	1.50
21	A	821	CLA	CMB-C2B	-2.10	1.46	1.50
21	y	604	CLA	CHC-C1C	2.10	1.42	1.38
21	A	808	CLA	CMD-C2D	-2.10	1.46	1.50
21	4	608	CLA	CHC-C1C	2.10	1.42	1.38
21	F	301	CLA	CMB-C2B	-2.10	1.46	1.50
21	4	602	CLA	CMC-C2C	-2.10	1.46	1.50
21	L	302	CLA	CMD-C2D	-2.10	1.46	1.50
22	4	617	XAT	C35-C15	-2.10	1.30	1.36
21	z	613	CLA	C3B-C4B	2.10	1.48	1.42
21	A	826	CLA	CHC-C1C	2.10	1.42	1.38
25	L	306	BCR	C19-C18	-2.10	1.41	1.46
21	A	805	CLA	CMD-C2D	-2.10	1.46	1.50
21	B	812	CLA	MG-NB	-2.10	2.01	2.05
21	4	611	CLA	CMC-C2C	-2.10	1.46	1.50
21	B	826	CLA	CMB-C2B	-2.10	1.46	1.50
21	4	613	CLA	MG-NB	-2.10	2.01	2.05
21	L	304	CLA	CMD-C2D	-2.10	1.46	1.50
21	y	614	CLA	CMC-C2C	-2.10	1.46	1.50
21	A	812	CLA	MG-NB	-2.10	2.01	2.05
21	A	844	CLA	CMC-C2C	-2.10	1.46	1.50
21	B	829	CLA	CMC-C2C	-2.10	1.46	1.50
21	B	832	CLA	CHC-C1C	2.10	1.42	1.38
21	O	201	CLA	MG-NB	-2.10	2.01	2.05
25	B	848	BCR	C21-C22	2.10	1.40	1.35
21	A	807	CLA	CMC-C2C	-2.09	1.46	1.50
21	1	605	CLA	CMC-C2C	-2.09	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	2	603	CLA	CMB-C2B	-2.09	1.46	1.50
21	A	829	CLA	CMB-C2B	-2.09	1.46	1.50
21	A	817	CLA	CMB-C2B	-2.09	1.46	1.50
21	3	610	CLA	CMB-C2B	-2.09	1.46	1.50
21	4	612	CLA	CMB-C2B	-2.09	1.46	1.50
21	A	823	CLA	MG-NB	-2.09	2.01	2.05
25	J	102	BCR	C19-C18	-2.09	1.41	1.46
21	1	604	CLA	CMD-C2D	-2.09	1.46	1.50
21	B	825	CLA	CMB-C2B	-2.09	1.46	1.50
21	A	829	CLA	C3B-C4B	2.09	1.48	1.42
21	4	610	CLA	CMB-C2B	-2.09	1.46	1.50
21	B	830	CLA	CMD-C2D	-2.09	1.46	1.50
21	y	613	CLA	CMD-C2D	-2.09	1.46	1.50
21	1	612	CLA	CMC-C2C	-2.09	1.46	1.50
21	y	602	CLA	CMB-C2B	-2.09	1.46	1.50
21	B	832	CLA	CMC-C2C	-2.09	1.46	1.50
21	B	812	CLA	CMD-C2D	-2.09	1.46	1.50
21	O	202	CLA	CMC-C2C	-2.09	1.46	1.50
21	B	839	CLA	MG-NB	-2.09	2.01	2.05
21	A	807	CLA	CMD-C2D	-2.09	1.46	1.50
21	A	811	CLA	CMD-C2D	-2.09	1.46	1.50
21	A	843	CLA	CMB-C2B	-2.09	1.46	1.50
21	1	607	CLA	MG-NB	-2.09	2.01	2.05
24	4	616	LUT	C10-C9	2.09	1.40	1.35
25	L	301	BCR	C20-C19	2.09	1.40	1.34
21	B	815	CLA	MG-NB	-2.09	2.01	2.05
21	4	601	CLA	MG-NB	-2.09	2.01	2.05
21	A	835	CLA	CMB-C2B	-2.09	1.46	1.50
21	B	832	CLA	CMD-C2D	-2.09	1.46	1.50
21	A	803	CLA	C3B-C4B	2.09	1.48	1.42
21	F	303	CLA	CHC-C1C	2.08	1.42	1.38
21	A	815	CLA	MG-NB	-2.08	2.01	2.05
21	A	816	CLA	CMD-C2D	-2.08	1.46	1.50
21	2	610	CLA	CHC-C1C	2.08	1.42	1.38
25	F	304	BCR	C19-C18	-2.08	1.41	1.46
21	x	611	CLA	CHC-C1C	2.08	1.42	1.38
21	K	204	CLA	MG-NB	-2.08	2.01	2.05
21	A	807	CLA	CMB-C2B	-2.08	1.46	1.50
21	A	830	CLA	CMB-C2B	-2.08	1.46	1.50
21	x	613	CLA	CMC-C2C	-2.08	1.46	1.50
21	z	611	CLA	CHC-C1C	2.08	1.42	1.38
21	2	609	CLA	CMB-C2B	-2.08	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	4	613	CLA	CMC-C2C	-2.08	1.46	1.50
21	B	835	CLA	CMD-C2D	-2.08	1.46	1.50
21	B	825	CLA	MG-NB	-2.08	2.01	2.05
21	z	612	CLA	CHC-C1C	2.08	1.42	1.38
21	F	303	CLA	CMB-C2B	-2.08	1.46	1.50
21	B	827	CLA	CMD-C2D	-2.08	1.46	1.50
25	A	852	BCR	C12-C13	-2.08	1.41	1.46
25	A	851	BCR	C12-C13	-2.08	1.41	1.46
21	2	611	CLA	CMC-C2C	-2.08	1.46	1.50
21	A	812	CLA	CMB-C2B	-2.08	1.46	1.50
21	y	612	CLA	CMC-C2C	-2.08	1.46	1.50
21	L	304	CLA	MG-NB	-2.08	2.01	2.05
22	z	617	XAT	C30-C29	2.08	1.40	1.35
21	A	830	CLA	MG-NB	-2.08	2.01	2.05
21	B	838	CLA	MG-NB	-2.08	2.01	2.05
21	A	802	CLA	CHC-C1C	2.08	1.42	1.38
21	x	602	CLA	CHC-C1C	2.08	1.42	1.38
21	A	813	CLA	CMC-C2C	-2.08	1.46	1.50
21	A	802	CLA	CMC-C2C	-2.08	1.46	1.50
21	B	818	CLA	CMC-C2C	-2.08	1.46	1.50
21	1	604	CLA	MG-NB	-2.08	2.01	2.05
21	3	607	CLA	MG-NB	-2.08	2.01	2.05
21	A	834	CLA	MG-NB	-2.08	2.01	2.05
21	A	830	CLA	CMC-C2C	-2.08	1.46	1.50
21	A	818	CLA	CHC-C1C	2.08	1.42	1.38
21	B	804	CLA	CMD-C2D	-2.08	1.46	1.50
21	K	204	CLA	CMD-C2D	-2.08	1.46	1.50
21	y	611	CLA	CMB-C2B	-2.08	1.46	1.50
21	1	609	CLA	CAC-C3C	-2.08	1.46	1.50
24	y	615	LUT	C34-C33	2.08	1.40	1.35
21	4	601	CLA	CMC-C2C	-2.07	1.46	1.50
21	B	814	CLA	CHC-C1C	2.07	1.42	1.38
21	A	814	CLA	MG-NB	-2.07	2.01	2.05
21	3	610	CLA	CMD-C2D	-2.07	1.46	1.50
21	A	836	CLA	CHC-C1C	2.07	1.42	1.38
21	A	825	CLA	MG-NB	-2.07	2.01	2.05
21	B	841	CLA	CMD-C2D	-2.07	1.46	1.50
21	A	841	CLA	CHC-C1C	2.07	1.42	1.38
21	z	613	CLA	CMC-C2C	-2.07	1.46	1.50
21	A	836	CLA	MG-NB	-2.07	2.01	2.05
21	A	804	CLA	CMC-C2C	-2.07	1.46	1.50
21	B	822	CLA	MG-NB	-2.07	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	834	CLA	CMB-C2B	-2.07	1.46	1.50
21	B	818	CLA	CMB-C2B	-2.07	1.46	1.50
21	B	826	CLA	CMC-C2C	-2.07	1.46	1.50
21	B	808	CLA	CHC-C1C	2.07	1.42	1.38
21	A	831	CLA	MG-NB	-2.07	2.01	2.05
21	B	807	CLA	CMD-C2D	-2.07	1.46	1.50
21	x	602	CLA	CMC-C2C	-2.07	1.46	1.50
21	B	840	CLA	CHC-C1C	2.07	1.42	1.38
21	A	806	CLA	MG-NB	-2.07	2.01	2.05
21	y	610	CLA	CMB-C2B	-2.07	1.46	1.50
21	B	835	CLA	MG-NB	-2.07	2.01	2.05
21	A	820	CLA	CMC-C2C	-2.07	1.46	1.50
21	B	812	CLA	CMC-C2C	-2.07	1.46	1.50
25	A	851	BCR	C19-C18	-2.07	1.41	1.46
22	1	614	XAT	O4-C5	-2.07	1.43	1.46
21	L	303	CLA	CMB-C2B	-2.07	1.46	1.50
21	3	610	CLA	MG-NB	-2.07	2.01	2.05
21	4	603	CLA	CMC-C2C	-2.07	1.46	1.50
21	B	803	CLA	C3B-C4B	2.07	1.48	1.42
21	3	608	CLA	CMB-C2B	-2.07	1.46	1.50
21	3	611	CLA	MG-NB	-2.07	2.01	2.05
21	1	610	CLA	CMC-C2C	-2.06	1.46	1.50
21	A	828	CLA	MG-NB	-2.06	2.01	2.05
21	A	833	CLA	CMC-C2C	-2.06	1.46	1.50
21	K	203	CLA	CMD-C2D	-2.06	1.46	1.50
21	z	603	CLA	CMC-C2C	-2.06	1.46	1.50
21	x	610	CLA	CHC-C1C	2.06	1.42	1.38
21	B	838	CLA	CMC-C2C	-2.06	1.46	1.50
21	z	602	CLA	CMB-C2B	-2.06	1.46	1.50
31	y	618	NEX	C30-C29	2.06	1.40	1.35
21	A	813	CLA	MG-NB	-2.06	2.01	2.05
21	4	610	CLA	CMC-C2C	-2.06	1.46	1.50
21	B	825	CLA	CMD-C2D	-2.06	1.46	1.50
21	4	602	CLA	CMB-C2B	-2.06	1.46	1.50
21	B	832	CLA	CMB-C2B	-2.06	1.46	1.50
21	2	610	CLA	CMC-C2C	-2.06	1.46	1.50
21	3	611	CLA	CMD-C2D	-2.06	1.46	1.50
21	O	201	CLA	CMB-C2B	-2.06	1.46	1.50
21	A	840	CLA	CMD-C2D	-2.06	1.46	1.50
21	B	818	CLA	CMD-C2D	-2.06	1.46	1.50
25	B	844	BCR	C20-C19	2.06	1.40	1.34
21	A	838	CLA	CMC-C2C	-2.06	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	A	833	CLA	CMD-C2D	-2.06	1.46	1.50
21	A	828	CLA	CMD-C2D	-2.06	1.46	1.50
21	B	834	CLA	MG-NB	-2.06	2.01	2.05
21	1	612	CLA	CHC-C1C	2.06	1.42	1.38
21	F	302	CLA	CMC-C2C	-2.06	1.46	1.50
21	A	840	CLA	CHC-C1C	2.06	1.42	1.38
21	2	608	CLA	CMC-C2C	-2.06	1.46	1.50
21	A	816	CLA	CMB-C2B	-2.06	1.46	1.50
21	G	201	CLA	CMB-C2B	-2.06	1.46	1.50
21	z	614	CLA	CMC-C2C	-2.06	1.46	1.50
21	3	603	CLA	CHC-C1C	2.06	1.42	1.38
21	B	820	CLA	CMC-C2C	-2.06	1.46	1.50
24	3	613	LUT	C14-C13	2.05	1.40	1.35
21	3	612	CLA	C3B-C4B	2.05	1.48	1.42
21	H	201	CLA	CMB-C2B	-2.05	1.46	1.50
21	B	830	CLA	MG-NB	-2.05	2.01	2.05
21	B	830	CLA	CMC-C2C	-2.05	1.46	1.50
21	J	101	CLA	CMD-C2D	-2.05	1.46	1.50
21	G	201	CLA	CMD-C2D	-2.05	1.46	1.50
21	y	614	CLA	CHC-C1C	2.05	1.42	1.38
21	2	603	CLA	MG-ND	-2.05	2.01	2.05
21	B	806	CLA	CMB-C2B	-2.05	1.46	1.50
21	B	817	CLA	CMD-C2D	-2.05	1.46	1.50
21	3	602	CLA	CHC-C1C	2.05	1.42	1.38
21	O	203	CLA	CMC-C2C	-2.05	1.46	1.50
21	x	611	CLA	CMC-C2C	-2.05	1.46	1.50
21	3	601	CLA	CMB-C2B	-2.05	1.46	1.50
21	B	831	CLA	CMD-C2D	-2.05	1.46	1.50
25	O	205	BCR	C10-C9	2.05	1.40	1.35
21	A	821	CLA	CMC-C2C	-2.05	1.46	1.50
21	A	843	CLA	CMC-C2C	-2.05	1.46	1.50
21	B	807	CLA	CMB-C2B	-2.05	1.46	1.50
21	B	818	CLA	CHC-C1C	2.05	1.42	1.38
25	A	852	BCR	C11-C12	2.05	1.40	1.34
21	J	101	CLA	MG-NB	-2.05	2.01	2.05
24	1	616	LUT	C32-C33	-2.05	1.41	1.46
20	2	606	CHL	CBD-CGD	-2.05	1.49	1.52
21	B	806	CLA	CHC-C1C	2.05	1.42	1.38
21	A	823	CLA	CMD-C2D	-2.05	1.46	1.50
21	B	802	CLA	CMC-C2C	-2.05	1.46	1.50
21	B	811	CLA	MG-NB	-2.05	2.01	2.05
21	B	811	CLA	CMC-C2C	-2.05	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	2	617	XAT	C8-C9	-2.04	1.41	1.46
21	x	612	CLA	CMC-C2C	-2.04	1.46	1.50
21	B	804	CLA	CMC-C2C	-2.04	1.46	1.50
21	A	809	CLA	MG-NB	-2.04	2.01	2.05
21	A	817	CLA	MG-NB	-2.04	2.01	2.05
21	B	815	CLA	CMB-C2B	-2.04	1.46	1.50
21	3	607	CLA	CMC-C2C	-2.04	1.46	1.50
21	z	604	CLA	CMC-C2C	-2.04	1.46	1.50
21	B	816	CLA	CMB-C2B	-2.04	1.46	1.50
21	B	810	CLA	CMC-C2C	-2.04	1.46	1.50
21	A	845	CLA	MG-NB	-2.04	2.01	2.05
21	1	604	CLA	CMC-C2C	-2.04	1.46	1.50
21	A	823	CLA	CMB-C2B	-2.04	1.46	1.50
21	K	203	CLA	CMC-C2C	-2.04	1.46	1.50
21	A	816	CLA	CMC-C2C	-2.04	1.46	1.50
21	A	822	CLA	CMC-C2C	-2.04	1.46	1.50
21	x	610	CLA	CMB-C2B	-2.04	1.46	1.50
21	x	614	CLA	CMB-C2B	-2.04	1.46	1.50
21	A	821	CLA	MG-NB	-2.04	2.01	2.05
21	L	303	CLA	CMC-C2C	-2.03	1.46	1.50
21	A	839	CLA	CMC-C2C	-2.03	1.46	1.50
21	F	303	CLA	CMC-C2C	-2.03	1.46	1.50
21	B	804	CLA	MG-NB	-2.03	2.01	2.05
21	B	841	CLA	CMB-C2B	-2.03	1.46	1.50
21	A	805	CLA	CMB-C2B	-2.03	1.46	1.50
21	B	833	CLA	CMC-C2C	-2.03	1.46	1.50
21	A	811	CLA	MG-NB	-2.03	2.01	2.05
21	A	841	CLA	CMB-C2B	-2.03	1.46	1.50
21	B	824	CLA	CMD-C2D	-2.03	1.46	1.50
21	2	611	CLA	CMB-C2B	-2.03	1.46	1.50
21	A	831	CLA	CMC-C2C	-2.03	1.46	1.50
21	A	836	CLA	CMC-C2C	-2.03	1.46	1.50
21	H	201	CLA	CHC-C1C	2.03	1.42	1.38
21	A	819	CLA	MG-NB	-2.03	2.01	2.05
21	F	301	CLA	CMC-C2C	-2.03	1.46	1.50
21	G	202	CLA	CMC-C2C	-2.03	1.46	1.50
21	L	304	CLA	CMC-C2C	-2.03	1.46	1.50
21	z	603	CLA	CHC-C1C	2.03	1.42	1.38
21	A	828	CLA	CMC-C2C	-2.03	1.46	1.50
21	L	303	CLA	MG-NB	-2.03	2.01	2.05
21	B	820	CLA	CMB-C2B	-2.03	1.46	1.50
21	B	804	CLA	CMB-C2B	-2.03	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	3	601	CLA	CHC-C1C	2.03	1.42	1.38
21	A	841	CLA	CMC-C2C	-2.02	1.46	1.50
21	L	302	CLA	CMC-C2C	-2.02	1.46	1.50
21	1	611	CLA	CMC-C2C	-2.02	1.46	1.50
21	3	602	CLA	CMC-C2C	-2.02	1.46	1.50
21	3	612	CLA	CMB-C2B	-2.02	1.46	1.50
21	B	837	CLA	CMC-C2C	-2.02	1.46	1.50
21	B	803	CLA	CMD-C2D	-2.02	1.46	1.50
21	A	832	CLA	CMC-C2C	-2.02	1.46	1.50
21	B	828	CLA	CMC-C2C	-2.02	1.46	1.50
21	B	814	CLA	CMC-C2C	-2.02	1.46	1.50
21	B	816	CLA	CMC-C2C	-2.02	1.46	1.50
21	B	824	CLA	CMC-C2C	-2.02	1.46	1.50
21	B	831	CLA	CMC-C2C	-2.02	1.46	1.50
21	A	820	CLA	MG-NB	-2.02	2.01	2.05
21	F	302	CLA	MG-NB	-2.02	2.01	2.05
21	A	827	CLA	MG-NB	-2.02	2.01	2.05
21	B	803	CLA	CHC-C1C	2.02	1.42	1.38
20	4	606	CHL	CBD-CGD	-2.02	1.50	1.52
21	4	614	CLA	CMC-C2C	-2.02	1.46	1.50
21	x	604	CLA	CMC-C2C	-2.02	1.46	1.50
21	A	839	CLA	CMB-C2B	-2.02	1.46	1.50
21	B	837	CLA	CMD-C2D	-2.02	1.46	1.50
21	3	605	CLA	CMC-C2C	-2.02	1.46	1.50
21	z	613	CLA	CHC-C1C	2.01	1.42	1.38
21	3	611	CLA	CMC-C2C	-2.01	1.46	1.50
21	A	828	CLA	CMB-C2B	-2.01	1.46	1.50
21	B	806	CLA	CMC-C2C	-2.01	1.46	1.50
25	K	205	BCR	C11-C12	2.01	1.39	1.34
21	A	827	CLA	CMC-C2C	-2.01	1.46	1.50
21	2	603	CLA	CHC-C1C	2.01	1.42	1.38
21	A	805	CLA	CMC-C2C	-2.01	1.46	1.50
21	A	823	CLA	CMC-C2C	-2.01	1.46	1.50
21	B	824	CLA	CMB-C2B	-2.01	1.46	1.50
21	A	834	CLA	CMC-C2C	-2.01	1.46	1.50
21	A	809	CLA	CMB-C2B	-2.01	1.46	1.50
25	F	304	BCR	C11-C12	2.01	1.39	1.34
21	A	835	CLA	CMC-C2C	-2.01	1.46	1.50
21	G	201	CLA	MG-NB	-2.01	2.01	2.05
21	2	613	CLA	CMC-C2C	-2.00	1.46	1.50
21	1	608	CLA	CMC-C2C	-2.00	1.46	1.50
21	B	833	CLA	CMB-C2B	-2.00	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	J	101	CLA	CMB-C2B	-2.00	1.46	1.50
21	K	201	CLA	CMB-C2B	-2.00	1.46	1.50
21	A	843	CLA	CHC-C1C	2.00	1.42	1.38
21	H	201	CLA	CMC-C2C	-2.00	1.46	1.50
21	A	815	CLA	CMC-C2C	-2.00	1.46	1.50
21	A	826	CLA	CMC-C2C	-2.00	1.46	1.50
21	1	613	CLA	CMC-C2C	-2.00	1.46	1.50
21	A	842	CLA	CHC-C1C	2.00	1.42	1.38

All (2026) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	818	CLA	O2D-CGD-CBD	26.34	157.28	111.23
21	A	818	CLA	O2D-CGD-O1D	-25.38	74.45	123.85
21	A	818	CLA	O1D-CGD-CBD	-21.14	82.83	124.52
22	4	617	XAT	O24-C25-C24	18.95	131.25	113.49
21	B	836	CLA	C5-C3-C4	-15.94	77.91	114.59
27	A	801	CL0	C4D-ND-C1D	-14.62	94.13	105.22
27	A	801	CL0	C1B-CHB-C4A	-14.45	112.03	121.32
21	B	836	CLA	C4-C3-C2	-13.40	82.45	122.66
21	B	836	CLA	C5-C3-C2	12.56	160.36	122.66
20	2	601	CHL	O2D-CGD-CBD	11.97	124.10	110.95
20	x	609	CHL	O2D-CGD-CBD	10.43	122.41	110.95
22	4	617	XAT	C4-C3-C2	-10.36	91.40	110.79
20	2	601	CHL	C1B-CHB-C4A	9.56	127.47	121.32
20	z	607	CHL	C1B-CHB-C4A	9.17	127.22	121.32
22	1	614	XAT	C38-C25-C26	-9.13	107.27	122.30
20	y	607	CHL	C1B-CHB-C4A	9.12	127.19	121.32
20	z	608	CHL	C1B-CHB-C4A	8.80	126.99	121.32
20	z	607	CHL	O2D-CGD-CBD	8.72	120.53	110.95
20	4	605	CHL	C1B-CHB-C4A	8.66	126.89	121.32
22	1	614	XAT	C18-C5-C6	-8.66	108.05	122.30
20	2	607	CHL	C1B-CHB-C4A	8.62	126.87	121.32
25	B	843	BCR	C16-C15-C14	8.60	141.12	123.52
22	4	617	XAT	O4-C5-C6	-8.51	52.18	58.93
20	4	607	CHL	C1B-CHB-C4A	8.50	126.79	121.32
20	2	615	CHL	O2D-CGD-CBD	8.48	120.26	110.95
20	2	606	CHL	C1B-CHB-C4A	8.45	126.76	121.32
22	x	617	XAT	C35-C15-C14	8.42	140.74	123.52
20	y	609	CHL	O2D-CGD-CBD	8.41	120.18	110.95
20	z	601	CHL	O2D-CGD-CBD	8.38	120.15	110.95
20	2	605	CHL	O2D-CGD-CBD	8.27	120.03	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	L	301	BCR	C16-C15-C14	8.26	140.41	123.52
20	x	607	CHL	O2D-CGD-CBD	8.24	120.00	110.95
20	4	606	CHL	O2D-CGD-CBD	8.24	120.00	110.95
20	z	605	CHL	O2D-CGD-CBD	8.22	119.98	110.95
20	x	608	CHL	O2D-CGD-CBD	8.19	119.95	110.95
20	z	605	CHL	C1B-CHB-C4A	8.17	126.58	121.32
20	4	606	CHL	C1B-CHB-C4A	8.16	126.57	121.32
22	4	617	XAT	C18-C5-C6	-8.16	108.88	122.30
20	z	609	CHL	O2D-CGD-CBD	8.15	119.90	110.95
20	z	608	CHL	O2D-CGD-CBD	8.04	119.78	110.95
20	2	606	CHL	O2D-CGD-CBD	8.02	119.76	110.95
25	L	301	BCR	C15-C16-C17	8.02	139.92	123.52
20	4	607	CHL	O2D-CGD-CBD	7.90	119.63	110.95
20	y	601	CHL	O2D-CGD-CBD	7.82	119.53	110.95
20	y	607	CHL	O2D-CGD-CBD	7.79	119.51	110.95
20	x	605	CHL	C1B-CHB-C4A	7.74	126.30	121.32
20	x	606	CHL	O2D-CGD-CBD	7.69	119.40	110.95
22	4	617	XAT	C24-C23-C22	-7.65	96.48	110.79
22	4	617	XAT	C18-C5-C4	7.60	122.78	114.24
21	F	302	CLA	C4A-NA-C1A	7.57	110.13	106.68
20	x	606	CHL	C1B-CHB-C4A	7.57	126.19	121.32
20	2	607	CHL	O2D-CGD-CBD	7.49	119.17	110.95
22	1	614	XAT	O4-C5-C18	7.48	123.40	115.05
20	y	606	CHL	C1B-CHB-C4A	7.45	126.11	121.32
24	3	613	LUT	C15-C35-C34	7.41	138.67	123.52
20	y	606	CHL	O2D-CGD-CBD	7.39	119.07	110.95
25	A	849	BCR	C15-C16-C17	7.38	138.61	123.52
22	4	617	XAT	C40-C33-C32	-7.37	106.82	118.09
20	x	605	CHL	O2D-CGD-CBD	7.36	119.03	110.95
21	y	614	CLA	C4A-NA-C1A	7.35	110.03	106.68
22	4	617	XAT	C7-C8-C9	7.34	136.92	125.53
22	4	617	XAT	O23-C23-C24	-7.33	94.76	109.75
21	B	811	CLA	C4A-NA-C1A	7.29	110.00	106.68
21	z	613	CLA	C4A-NA-C1A	7.22	109.97	106.68
22	4	617	XAT	O4-C5-C4	7.21	120.25	113.49
21	3	612	CLA	C4A-NA-C1A	7.18	109.95	106.68
21	B	814	CLA	C4A-NA-C1A	7.17	109.95	106.68
20	z	606	CHL	O2D-CGD-CBD	7.15	118.81	110.95
20	y	605	CHL	O2D-CGD-CBD	7.15	118.80	110.95
21	1	609	CLA	C4A-NA-C1A	7.14	109.94	106.68
21	4	613	CLA	C4A-NA-C1A	7.07	109.90	106.68
21	1	607	CLA	C4A-NA-C1A	7.06	109.90	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	A	851	BCR	C8-C9-C10	7.06	130.12	119.01
21	B	805	CLA	C4A-NA-C1A	7.06	109.90	106.68
20	x	601	CHL	O2D-CGD-CBD	7.06	118.70	110.95
22	4	617	XAT	C36-C21-C22	-7.04	96.59	108.97
21	B	817	CLA	C4A-NA-C1A	7.03	109.89	106.68
21	A	826	CLA	C4A-NA-C1A	7.03	109.88	106.68
20	3	606	CHL	O2D-CGD-CBD	7.02	118.66	110.95
21	4	614	CLA	C4A-NA-C1A	7.01	109.88	106.68
21	B	824	CLA	C4A-NA-C1A	6.99	109.87	106.68
21	A	818	CLA	C4A-NA-C1A	6.97	109.86	106.68
21	B	803	CLA	C4A-NA-C1A	6.97	109.86	106.68
21	A	813	CLA	C4A-NA-C1A	6.95	109.85	106.68
21	1	604	CLA	C4A-NA-C1A	6.94	109.84	106.68
21	A	830	CLA	C4A-NA-C1A	6.94	109.84	106.68
21	A	845	CLA	C4A-NA-C1A	6.94	109.84	106.68
21	3	605	CLA	C4A-NA-C1A	6.93	109.84	106.68
21	x	613	CLA	C4A-NA-C1A	6.90	109.83	106.68
21	B	831	CLA	C4A-NA-C1A	6.89	109.82	106.68
21	z	603	CLA	C4A-NA-C1A	6.89	109.82	106.68
21	B	820	CLA	C4A-NA-C1A	6.89	109.82	106.68
21	B	804	CLA	C4A-NA-C1A	6.88	109.82	106.68
25	A	851	BCR	C16-C15-C14	6.88	137.60	123.52
21	z	614	CLA	C4A-NA-C1A	6.88	109.82	106.68
21	3	610	CLA	C4A-NA-C1A	6.87	109.81	106.68
21	K	201	CLA	C4A-NA-C1A	6.87	109.81	106.68
21	K	204	CLA	C4A-NA-C1A	6.87	109.81	106.68
21	A	836	CLA	C4A-NA-C1A	6.86	109.81	106.68
21	B	838	CLA	C4A-NA-C1A	6.86	109.81	106.68
21	A	816	CLA	C4A-NA-C1A	6.86	109.81	106.68
21	B	829	CLA	C4A-NA-C1A	6.85	109.80	106.68
21	3	609	CLA	C4A-NA-C1A	6.82	109.79	106.68
21	B	815	CLA	C4A-NA-C1A	6.81	109.79	106.68
21	B	808	CLA	C4A-NA-C1A	6.81	109.78	106.68
21	G	201	CLA	C4A-NA-C1A	6.80	109.78	106.68
21	4	612	CLA	C4A-NA-C1A	6.80	109.78	106.68
21	A	827	CLA	C4A-NA-C1A	6.80	109.78	106.68
21	2	609	CLA	C4A-NA-C1A	6.79	109.78	106.68
21	A	843	CLA	C4A-NA-C1A	6.78	109.77	106.68
21	B	807	CLA	C4A-NA-C1A	6.78	109.77	106.68
21	A	820	CLA	C4A-NA-C1A	6.77	109.77	106.68
21	B	840	CLA	C4A-NA-C1A	6.77	109.77	106.68
24	2	616	LUT	C15-C35-C34	6.76	137.35	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	z	611	CLA	C4A-NA-C1A	6.75	109.76	106.68
21	A	831	CLA	C4A-NA-C1A	6.75	109.76	106.68
22	1	614	XAT	O24-C25-C38	6.75	122.59	115.05
21	G	203	CLA	C4A-NA-C1A	6.75	109.76	106.68
21	A	823	CLA	C4A-NA-C1A	6.74	109.75	106.68
21	H	201	CLA	C4A-NA-C1A	6.73	109.75	106.68
21	A	832	CLA	C4A-NA-C1A	6.73	109.75	106.68
21	1	605	CLA	C4A-NA-C1A	6.72	109.75	106.68
21	A	819	CLA	C4A-NA-C1A	6.72	109.75	106.68
21	B	837	CLA	C4A-NA-C1A	6.72	109.75	106.68
21	A	835	CLA	C4A-NA-C1A	6.72	109.74	106.68
21	B	839	CLA	C4A-NA-C1A	6.71	109.74	106.68
21	A	842	CLA	C4A-NA-C1A	6.70	109.74	106.68
21	2	611	CLA	C4A-NA-C1A	6.70	109.74	106.68
21	A	839	CLA	C4A-NA-C1A	6.70	109.74	106.68
21	B	826	CLA	C4A-NA-C1A	6.70	109.73	106.68
20	3	606	CHL	C1B-CHB-C4A	6.69	125.63	121.32
25	B	849	BCR	C30-C25-C26	-6.69	113.49	122.64
21	y	604	CLA	C4A-NA-C1A	6.69	109.73	106.68
21	A	841	CLA	C4A-NA-C1A	6.69	109.73	106.68
21	A	837	CLA	C4A-NA-C1A	6.69	109.73	106.68
21	1	612	CLA	C4A-NA-C1A	6.68	109.73	106.68
21	B	809	CLA	C4A-NA-C1A	6.68	109.73	106.68
21	L	303	CLA	C4A-NA-C1A	6.68	109.73	106.68
21	4	603	CLA	C4A-NA-C1A	6.67	109.72	106.68
21	4	604	CLA	C4A-NA-C1A	6.67	109.72	106.68
21	A	833	CLA	C4A-NA-C1A	6.66	109.72	106.68
21	B	825	CLA	C4A-NA-C1A	6.66	109.72	106.68
21	B	813	CLA	C4A-NA-C1A	6.65	109.72	106.68
21	B	827	CLA	C4A-NA-C1A	6.65	109.71	106.68
21	A	817	CLA	C4A-NA-C1A	6.65	109.71	106.68
21	A	804	CLA	C4A-NA-C1A	6.64	109.71	106.68
20	y	608	CHL	O2D-CGD-CBD	6.63	118.23	110.95
21	A	809	CLA	C4A-NA-C1A	6.62	109.70	106.68
21	3	601	CLA	C4A-NA-C1A	6.61	109.69	106.68
21	A	815	CLA	C4A-NA-C1A	6.60	109.69	106.68
25	A	850	BCR	C15-C16-C17	6.60	137.02	123.52
21	G	202	CLA	C4A-NA-C1A	6.59	109.69	106.68
21	J	101	CLA	C4A-NA-C1A	6.59	109.69	106.68
21	z	612	CLA	C4A-NA-C1A	6.59	109.68	106.68
21	A	828	CLA	C4A-NA-C1A	6.58	109.68	106.68
21	B	812	CLA	C4A-NA-C1A	6.58	109.68	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	822	CLA	C4A-NA-C1A	6.57	109.68	106.68
21	A	834	CLA	C4A-NA-C1A	6.57	109.67	106.68
22	2	617	XAT	C35-C15-C14	6.56	136.94	123.52
21	x	602	CLA	C4A-NA-C1A	6.56	109.67	106.68
21	y	611	CLA	C4A-NA-C1A	6.55	109.67	106.68
21	A	806	CLA	C4A-NA-C1A	6.55	109.67	106.68
21	L	302	CLA	C4A-NA-C1A	6.55	109.67	106.68
21	A	808	CLA	C4A-NA-C1A	6.54	109.66	106.68
21	4	611	CLA	C4A-NA-C1A	6.54	109.66	106.68
21	A	811	CLA	C4A-NA-C1A	6.53	109.66	106.68
21	A	812	CLA	C4A-NA-C1A	6.51	109.65	106.68
21	1	611	CLA	C4A-NA-C1A	6.50	109.65	106.68
21	B	833	CLA	C4A-NA-C1A	6.50	109.64	106.68
21	y	613	CLA	C4A-NA-C1A	6.50	109.64	106.68
21	3	604	CLA	C4A-NA-C1A	6.49	109.64	106.68
21	A	821	CLA	C4A-NA-C1A	6.49	109.64	106.68
21	3	602	CLA	C4A-NA-C1A	6.49	109.64	106.68
21	x	612	CLA	C4A-NA-C1A	6.49	109.64	106.68
21	A	829	CLA	C4A-NA-C1A	6.48	109.64	106.68
24	y	615	LUT	C35-C15-C14	6.48	136.78	123.52
21	A	802	CLA	C4A-NA-C1A	6.48	109.64	106.68
21	3	611	CLA	C4A-NA-C1A	6.47	109.63	106.68
21	B	830	CLA	C4A-NA-C1A	6.47	109.63	106.68
21	A	824	CLA	C4A-NA-C1A	6.46	109.63	106.68
21	B	816	CLA	C4A-NA-C1A	6.46	109.62	106.68
21	A	840	CLA	C4A-NA-C1A	6.46	109.62	106.68
21	4	602	CLA	C4A-NA-C1A	6.45	109.62	106.68
21	B	832	CLA	C4A-NA-C1A	6.45	109.62	106.68
21	y	603	CLA	C4A-NA-C1A	6.45	109.62	106.68
21	x	603	CLA	C4A-NA-C1A	6.45	109.62	106.68
21	z	602	CLA	C4A-NA-C1A	6.45	109.62	106.68
21	4	601	CLA	C4A-NA-C1A	6.44	109.62	106.68
21	A	810	CLA	C4A-NA-C1A	6.44	109.62	106.68
21	B	802	CLA	C4A-NA-C1A	6.44	109.62	106.68
21	y	610	CLA	C4A-NA-C1A	6.44	109.62	106.68
21	z	610	CLA	C4A-NA-C1A	6.44	109.61	106.68
21	x	614	CLA	C4A-NA-C1A	6.43	109.61	106.68
21	x	610	CLA	C4A-NA-C1A	6.43	109.61	106.68
21	x	604	CLA	C4A-NA-C1A	6.43	109.61	106.68
21	B	819	CLA	C4A-NA-C1A	6.42	109.61	106.68
21	2	612	CLA	C4A-NA-C1A	6.41	109.61	106.68
21	y	602	CLA	C4A-NA-C1A	6.41	109.60	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	806	CLA	C4A-NA-C1A	6.40	109.60	106.68
21	F	301	CLA	C4A-NA-C1A	6.40	109.60	106.68
21	3	608	CLA	C4A-NA-C1A	6.40	109.60	106.68
21	B	841	CLA	C4A-NA-C1A	6.40	109.60	106.68
22	1	614	XAT	O24-C25-C24	6.40	119.49	113.49
21	L	304	CLA	C4A-NA-C1A	6.40	109.60	106.68
21	1	613	CLA	C4A-NA-C1A	6.39	109.59	106.68
20	x	608	CHL	C1B-CHB-C4A	6.39	125.43	121.32
21	1	602	CLA	C4A-NA-C1A	6.39	109.59	106.68
21	A	807	CLA	C4A-NA-C1A	6.39	109.59	106.68
21	B	835	CLA	C4A-NA-C1A	6.37	109.59	106.68
21	B	834	CLA	C4A-NA-C1A	6.37	109.59	106.68
21	2	603	CLA	C4A-NA-C1A	6.37	109.59	106.68
21	A	825	CLA	C4A-NA-C1A	6.36	109.58	106.68
21	K	206	CLA	C4A-NA-C1A	6.35	109.58	106.68
21	F	303	CLA	C4A-NA-C1A	6.35	109.58	106.68
21	A	805	CLA	C4A-NA-C1A	6.34	109.57	106.68
21	B	810	CLA	C4A-NA-C1A	6.34	109.57	106.68
21	B	828	CLA	C4A-NA-C1A	6.33	109.56	106.68
21	B	818	CLA	C4A-NA-C1A	6.31	109.56	106.68
21	z	604	CLA	C4A-NA-C1A	6.31	109.56	106.68
21	1	608	CLA	C4A-NA-C1A	6.30	109.56	106.68
21	2	613	CLA	C4A-NA-C1A	6.30	109.56	106.68
22	2	617	XAT	C15-C35-C34	6.30	136.41	123.52
20	4	605	CHL	CHA-C1A-C2A	-6.30	118.52	133.31
21	2	602	CLA	C4A-NA-C1A	6.30	109.55	106.68
21	A	838	CLA	C4A-NA-C1A	6.30	109.55	106.68
21	y	612	CLA	C4A-NA-C1A	6.28	109.55	106.68
21	B	822	CLA	C4A-NA-C1A	6.28	109.54	106.68
21	x	611	CLA	C4A-NA-C1A	6.27	109.54	106.68
21	1	610	CLA	C4A-NA-C1A	6.23	109.52	106.68
25	A	850	BCR	C16-C15-C14	6.23	136.26	123.52
21	B	823	CLA	C4A-NA-C1A	6.22	109.52	106.68
21	2	608	CLA	C4A-NA-C1A	6.22	109.52	106.68
21	4	610	CLA	C4A-NA-C1A	6.22	109.52	106.68
20	2	605	CHL	C1B-CHB-C4A	6.21	125.32	121.32
21	4	608	CLA	C4A-NA-C1A	6.20	109.51	106.68
21	1	603	CLA	C4A-NA-C1A	6.19	109.50	106.68
21	K	203	CLA	C4A-NA-C1A	6.19	109.50	106.68
21	B	821	CLA	C4A-NA-C1A	6.15	109.49	106.68
21	O	201	CLA	C4A-NA-C1A	6.14	109.48	106.68
21	A	814	CLA	C4A-NA-C1A	6.14	109.48	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	z	607	CHL	CHA-C1A-C2A	-6.10	118.99	133.31
25	A	851	BCR	C23-C22-C21	6.09	128.60	119.01
21	O	203	CLA	C4A-NA-C1A	6.08	109.45	106.68
20	2	606	CHL	CHA-C1A-C2A	-6.06	119.07	133.31
20	y	607	CHL	CHA-C1A-C2A	-6.06	119.08	133.31
21	O	202	CLA	C4A-NA-C1A	6.04	109.43	106.68
21	3	607	CLA	C4A-NA-C1A	6.03	109.43	106.68
20	4	606	CHL	CHA-C1A-C2A	-6.01	119.19	133.31
27	A	801	CL0	C3D-C4D-ND	6.00	122.56	112.94
21	2	604	CLA	C4A-NA-C1A	6.00	109.42	106.68
20	y	606	CHL	CHA-C1A-C2A	-5.99	119.25	133.31
20	4	615	CHL	C1B-CHB-C4A	5.97	125.16	121.32
20	z	608	CHL	CHA-C1A-C2A	-5.95	119.33	133.31
21	4	609	CLA	C4A-NA-C1A	5.94	109.39	106.68
21	B	836	CLA	C4A-NA-C1A	5.93	109.38	106.68
20	4	607	CHL	CHA-C1A-C2A	-5.90	119.44	133.31
20	2	601	CHL	CHA-C1A-C2A	-5.90	119.45	133.31
22	4	617	XAT	C26-C27-C28	-5.89	113.53	125.99
22	1	614	XAT	O4-C5-C4	5.89	119.01	113.49
25	F	304	BCR	C15-C16-C17	5.87	135.54	123.52
25	F	304	BCR	C24-C23-C22	5.80	134.81	126.23
20	2	607	CHL	CHA-C1A-C2A	-5.79	119.72	133.31
20	4	615	CHL	CHA-C1A-C2A	-5.77	119.76	133.31
25	A	851	BCR	C7-C8-C9	-5.77	117.70	126.23
24	2	616	LUT	C7-C8-C9	5.75	134.75	126.23
20	x	605	CHL	CHA-C1A-C2A	-5.75	119.82	133.31
20	x	607	CHL	CHA-C1A-C2A	-5.73	119.86	133.31
25	K	202	BCR	C16-C15-C14	5.69	135.16	123.52
21	A	844	CLA	C4A-NA-C1A	5.63	109.25	106.68
25	K	205	BCR	C15-C16-C17	5.61	135.00	123.52
20	2	605	CHL	CHA-C1A-C2A	-5.60	120.16	133.31
20	y	605	CHL	C1B-CHB-C4A	5.59	124.92	121.32
21	3	603	CLA	C4A-NA-C1A	5.58	109.22	106.68
20	3	606	CHL	CHA-C1A-C2A	-5.58	120.21	133.31
21	A	803	CLA	C4A-NA-C1A	5.56	109.22	106.68
22	1	614	XAT	C35-C34-C33	-5.56	119.48	127.28
27	A	801	CL0	CHA-C1A-C2A	-5.55	118.24	130.18
24	2	619	LUT	C15-C35-C34	5.54	134.86	123.52
22	4	617	XAT	C15-C14-C13	5.48	134.96	127.28
20	x	606	CHL	CHA-C1A-C2A	-5.46	120.50	133.31
22	4	617	XAT	O24-C26-C27	-5.45	101.28	116.88
22	4	617	XAT	O24-C25-C26	-5.43	54.62	58.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	x	609	CHL	CHA-C1A-C2A	-5.40	120.63	133.31
22	4	617	XAT	O3-C3-C2	-5.39	98.72	109.75
20	2	615	CHL	CHA-C1A-C2A	-5.32	120.81	133.31
24	1	616	LUT	C30-C31-C32	5.32	138.61	123.20
24	y	615	LUT	C8-C9-C10	5.27	127.31	119.01
24	1	616	LUT	C27-C28-C29	5.21	137.54	126.32
20	z	601	CHL	CHA-C1A-C2A	-5.20	121.10	133.31
25	A	851	BCR	C11-C10-C9	5.18	134.54	127.28
22	4	617	XAT	C32-C33-C34	5.15	127.12	119.01
20	1	601	CHL	CHA-C1A-C2A	-5.15	121.23	133.31
20	y	608	CHL	CHA-C1A-C2A	-5.04	121.46	133.31
25	B	845	BCR	C19-C18-C17	5.03	126.92	119.01
20	x	607	CHL	C1B-CHB-C4A	5.02	124.55	121.32
24	z	616	LUT	C15-C35-C34	5.01	133.76	123.52
31	x	618	NEX	C15-C35-C34	5.00	133.76	123.52
20	z	606	CHL	CHA-C1A-C2A	-4.97	121.64	133.31
24	x	616	LUT	C28-C29-C30	4.95	126.79	119.01
25	B	846	BCR	C16-C15-C14	4.93	133.61	123.52
21	4	613	CLA	CAA-C2A-C3A	-4.91	99.74	113.00
24	z	615	LUT	C35-C15-C14	4.90	133.55	123.52
21	B	822	CLA	CAA-C2A-C3A	-4.85	99.89	113.00
24	z	616	LUT	C30-C31-C32	4.84	137.22	123.20
25	B	849	BCR	C16-C15-C14	4.82	133.38	123.52
25	J	102	BCR	C16-C15-C14	4.82	133.38	123.52
25	A	853	BCR	C16-C15-C14	4.79	133.31	123.52
20	x	609	CHL	C1B-CHB-C4A	4.78	124.40	121.32
25	L	306	BCR	C8-C9-C10	4.75	126.49	119.01
25	A	851	BCR	C34-C9-C10	-4.73	115.15	122.82
25	B	844	BCR	C21-C20-C19	4.69	136.79	123.20
31	y	618	NEX	C35-C15-C14	4.64	133.00	123.52
24	2	616	LUT	C28-C29-C30	4.61	126.27	119.01
24	x	616	LUT	C15-C35-C34	4.61	132.95	123.52
25	A	849	BCR	C21-C20-C19	4.60	136.54	123.20
25	B	847	BCR	C16-C15-C14	4.59	132.92	123.52
22	z	617	XAT	C35-C15-C14	4.56	132.85	123.52
22	1	614	XAT	C15-C14-C13	-4.52	120.93	127.28
22	y	617	XAT	C8-C9-C10	4.52	126.11	119.01
20	y	609	CHL	CHA-C1A-C2A	-4.51	122.71	133.31
25	K	205	BCR	C19-C18-C17	4.50	126.09	119.01
24	2	619	LUT	C8-C9-C10	4.50	126.08	119.01
25	L	306	BCR	C16-C15-C14	4.49	132.71	123.52
25	B	843	BCR	C8-C9-C10	4.48	126.05	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	K	202	BCR	C15-C16-C17	4.47	132.66	123.52
25	G	204	BCR	C15-C16-C17	4.45	132.63	123.52
21	B	813	CLA	O2D-CGD-O1D	-4.45	115.19	123.85
20	z	609	CHL	CHA-C1A-C2A	-4.45	122.86	133.31
25	A	848	BCR	C15-C16-C17	4.44	132.61	123.52
20	x	601	CHL	CHA-C1A-C2A	-4.44	122.89	133.31
25	A	852	BCR	C10-C11-C12	4.43	136.05	123.20
25	A	851	BCR	C12-C13-C14	4.37	125.89	119.01
25	F	304	BCR	C16-C15-C14	4.36	132.45	123.52
22	y	617	XAT	C35-C15-C14	4.36	132.45	123.52
25	A	849	BCR	C30-C25-C26	-4.36	116.69	122.64
22	4	617	XAT	C39-C29-C28	-4.35	111.44	118.09
25	L	301	BCR	C21-C20-C19	4.35	135.81	123.20
25	A	851	BCR	C37-C22-C21	-4.35	115.77	122.82
25	L	301	BCR	C12-C13-C14	4.34	125.83	119.01
25	L	305	BCR	C16-C15-C14	4.32	132.37	123.52
24	y	616	LUT	C15-C35-C34	4.31	132.33	123.52
25	B	844	BCR	C16-C15-C14	4.31	132.33	123.52
30	B	850	DGD	O2G-C1B-C2B	4.29	120.77	111.48
22	4	617	XAT	C28-C29-C30	4.29	125.76	119.01
24	3	613	LUT	C28-C29-C30	4.29	125.76	119.01
21	2	603	CLA	C3B-C4B-NB	-4.29	106.70	110.53
22	4	617	XAT	C38-C25-C26	-4.27	115.27	122.30
24	1	616	LUT	C31-C30-C29	4.26	133.25	127.28
24	1	616	LUT	C15-C35-C34	4.25	132.22	123.52
22	4	617	XAT	C16-C1-C6	-4.20	98.70	110.05
22	y	617	XAT	C30-C31-C32	4.18	135.32	123.20
25	A	852	BCR	C16-C15-C14	4.18	132.07	123.52
25	B	801	BCR	C16-C15-C14	4.18	132.06	123.52
25	4	618	BCR	C30-C25-C26	-4.17	116.94	122.64
25	F	304	BCR	C21-C20-C19	4.16	135.25	123.20
24	2	616	LUT	C39-C29-C30	-4.15	116.08	122.82
25	K	202	BCR	C12-C13-C14	4.15	125.54	119.01
24	1	616	LUT	C35-C15-C14	4.15	132.00	123.52
24	1	616	LUT	C39-C29-C28	4.14	124.42	118.09
20	z	607	CHL	C1-C2-C3	-4.14	119.41	126.20
22	2	617	XAT	C28-C29-C30	4.11	125.48	119.01
24	y	615	LUT	C39-C29-C30	-4.11	116.15	122.82
25	B	845	BCR	C20-C21-C22	4.10	133.03	127.28
25	4	618	BCR	C16-C15-C14	4.09	131.89	123.52
21	A	804	CLA	CAA-C2A-C3A	-4.09	101.95	113.00
20	3	606	CHL	CBC-CAC-C3C	-4.08	107.03	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	801	BCR	C10-C11-C12	4.07	134.98	123.20
25	I	101	BCR	C15-C16-C17	4.06	131.82	123.52
25	B	843	BCR	C34-C9-C10	-4.05	116.26	122.82
20	1	601	CHL	C1-C2-C3	-4.05	119.56	126.20
25	F	304	BCR	C20-C21-C22	4.04	132.94	127.28
24	2	619	LUT	C19-C9-C10	-4.03	116.29	122.82
27	A	801	CL0	C1-C2-C3	-4.03	119.60	126.20
20	y	609	CHL	C1-C2-C3	-4.01	119.62	126.20
25	L	306	BCR	C23-C22-C21	4.01	125.31	119.01
21	2	604	CLA	C3B-C4B-NB	-4.01	106.95	110.53
25	O	204	BCR	C15-C16-C17	4.01	131.71	123.52
20	2	601	CHL	O2D-CGD-O1D	-3.99	116.08	123.85
24	y	615	LUT	C19-C9-C10	-3.99	116.35	122.82
25	A	853	BCR	C10-C11-C12	3.99	134.76	123.20
25	B	801	BCR	C8-C9-C10	3.98	125.28	119.01
22	y	617	XAT	C19-C9-C10	-3.98	116.38	122.82
25	A	851	BCR	C24-C23-C22	-3.96	120.37	126.23
21	1	609	CLA	CMB-C2B-C1B	-3.94	119.42	125.42
20	y	601	CHL	CHA-C1A-C2A	-3.94	124.06	133.31
25	B	844	BCR	C15-C16-C17	3.94	131.57	123.52
24	1	616	LUT	C32-C33-C34	3.94	125.20	119.01
21	K	203	CLA	CAA-C2A-C3A	-3.92	102.40	113.00
25	L	306	BCR	C34-C9-C10	-3.92	116.46	122.82
31	x	618	NEX	C32-C33-C34	3.92	125.18	119.01
25	K	205	BCR	C10-C11-C12	3.92	134.55	123.20
25	B	845	BCR	C1-C6-C5	-3.92	117.28	122.64
25	B	845	BCR	C36-C18-C17	-3.92	116.47	122.82
21	A	844	CLA	C3B-C4B-NB	-3.91	107.04	110.53
24	x	616	LUT	C39-C29-C30	-3.91	116.48	122.82
24	3	613	LUT	C39-C29-C30	-3.90	116.49	122.82
25	K	202	BCR	C23-C22-C21	3.89	125.13	119.01
22	1	614	XAT	C6-C7-C8	-3.89	117.77	125.99
21	A	803	CLA	C3B-C4B-NB	-3.88	107.07	110.53
25	A	851	BCR	C15-C16-C17	3.88	131.45	123.52
25	F	304	BCR	C12-C13-C14	3.87	125.10	119.01
21	A	804	CLA	O2D-CGD-O1D	-3.85	116.35	123.85
25	L	306	BCR	C7-C8-C9	3.85	131.93	126.23
21	1	612	CLA	O2D-CGD-O1D	-3.84	116.37	123.85
21	L	303	CLA	O2D-CGD-O1D	-3.84	116.37	123.85
23	1	615	LHG	O7-C7-C8	3.84	119.79	111.48
24	y	615	LUT	C32-C33-C34	3.84	125.05	119.01
25	L	306	BCR	C15-C16-C17	3.84	131.37	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	K	202	BCR	C37-C22-C21	-3.83	116.61	122.82
24	4	616	LUT	C15-C35-C34	3.83	131.35	123.52
24	z	615	LUT	C8-C9-C10	3.81	125.01	119.01
24	z	616	LUT	C32-C33-C34	3.81	125.00	119.01
20	y	608	CHL	OMC-CMC-C2C	-3.81	118.51	125.12
25	A	852	BCR	C23-C22-C21	3.81	125.00	119.01
25	F	304	BCR	C10-C11-C12	3.79	134.19	123.20
25	A	853	BCR	C11-C10-C9	3.79	132.59	127.28
24	y	615	LUT	C15-C35-C34	3.78	131.26	123.52
31	z	618	NEX	C15-C35-C34	3.78	131.25	123.52
25	A	851	BCR	C20-C21-C22	3.78	132.57	127.28
24	z	615	LUT	C19-C9-C10	-3.78	116.70	122.82
25	A	852	BCR	C19-C18-C17	3.77	124.93	119.01
25	K	205	BCR	C37-C22-C21	-3.76	116.72	122.82
25	B	844	BCR	C37-C22-C21	-3.76	116.73	122.82
25	L	306	BCR	C37-C22-C21	-3.75	116.73	122.82
24	2	619	LUT	C7-C8-C9	-3.75	120.69	126.23
21	A	810	CLA	CAA-C2A-C3A	-3.74	102.89	113.00
25	K	202	BCR	C19-C18-C17	3.74	124.89	119.01
25	B	846	BCR	C34-C9-C10	-3.74	116.76	122.82
21	B	821	CLA	CAA-C2A-C3A	-3.74	102.91	113.00
24	y	615	LUT	C7-C8-C9	-3.73	120.72	126.23
25	B	801	BCR	C7-C8-C9	-3.73	120.72	126.23
22	z	617	XAT	C39-C29-C30	-3.72	116.78	122.82
21	A	830	CLA	CAA-C2A-C3A	-3.72	102.95	113.00
22	4	617	XAT	C19-C9-C8	-3.70	112.44	118.09
24	1	616	LUT	C1-C6-C5	-3.68	117.60	122.64
25	K	205	BCR	C34-C9-C10	-3.68	116.85	122.82
21	B	819	CLA	O2D-CGD-O1D	-3.68	116.69	123.85
21	B	813	CLA	O2D-CGD-CBD	3.68	117.66	111.23
25	L	306	BCR	C12-C13-C14	3.68	124.79	119.01
24	2	619	LUT	C32-C33-C34	3.67	124.78	119.01
20	2	607	CHL	C1-C2-C3	-3.67	120.82	126.76
24	1	616	LUT	C26-C27-C28	3.67	130.29	124.58
22	y	617	XAT	C12-C13-C14	3.67	124.78	119.01
25	K	205	BCR	C36-C18-C17	-3.67	116.87	122.82
21	1	612	CLA	O2D-CGD-CBD	3.67	117.64	111.23
25	L	305	BCR	C37-C22-C21	-3.66	116.88	122.82
25	J	102	BCR	C34-C9-C10	-3.66	116.88	122.82
24	y	615	LUT	C27-C28-C29	3.66	134.20	126.32
22	1	614	XAT	C26-C27-C28	-3.65	118.27	125.99
22	2	617	XAT	C39-C29-C30	-3.65	116.90	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	844	BCR	C34-C9-C10	-3.65	116.90	122.82
25	F	304	BCR	C34-C9-C10	-3.65	116.90	122.82
24	x	616	LUT	C32-C33-C34	3.65	124.75	119.01
31	z	618	NEX	C39-C29-C30	-3.64	116.92	122.82
25	L	301	BCR	C37-C22-C21	-3.64	116.92	122.82
25	3	614	BCR	C16-C15-C14	3.63	130.95	123.52
22	x	617	XAT	C10-C11-C12	3.63	133.72	123.20
25	K	202	BCR	C35-C13-C14	-3.63	116.94	122.82
21	A	845	CLA	O2D-CGD-O1D	-3.62	116.79	123.85
25	O	205	BCR	C16-C15-C14	3.62	130.94	123.52
25	A	850	BCR	C34-C9-C10	-3.62	116.94	122.82
21	A	813	CLA	O2D-CGD-O1D	-3.62	116.80	123.85
25	A	850	BCR	C16-C17-C18	3.62	132.36	127.28
25	A	849	BCR	C20-C21-C22	3.62	132.35	127.28
25	B	844	BCR	C23-C22-C21	3.62	124.70	119.01
22	4	617	XAT	C17-C1-C16	3.62	112.63	107.37
24	1	616	LUT	C19-C9-C10	-3.61	116.97	122.82
22	z	617	XAT	C19-C9-C10	-3.61	116.97	122.82
24	x	615	LUT	C15-C35-C34	3.60	130.90	123.52
25	K	205	BCR	C23-C22-C21	3.60	124.68	119.01
22	4	617	XAT	C20-C13-C12	-3.60	112.59	118.09
25	B	848	BCR	C15-C16-C17	3.60	130.89	123.52
21	3	608	CLA	CAA-C2A-C3A	-3.60	107.98	116.23
25	B	846	BCR	C8-C9-C10	3.59	124.66	119.01
25	K	202	BCR	C34-C9-C10	-3.59	117.01	122.82
25	A	852	BCR	C37-C22-C21	-3.58	117.02	122.82
21	3	608	CLA	C3B-C4B-NB	-3.57	107.34	110.53
24	x	615	LUT	C35-C15-C14	3.57	130.83	123.52
25	G	204	BCR	C37-C22-C21	-3.57	117.03	122.82
22	2	617	XAT	C19-C9-C10	-3.56	117.05	122.82
24	2	619	LUT	C39-C29-C30	-3.55	117.06	122.82
24	z	616	LUT	C19-C9-C10	-3.55	117.07	122.82
25	L	301	BCR	C35-C13-C14	-3.53	117.10	122.82
24	2	616	LUT	C12-C13-C14	3.53	124.56	119.01
21	B	837	CLA	O2D-CGD-O1D	-3.53	116.98	123.85
25	O	204	BCR	C37-C22-C21	-3.53	117.10	122.82
22	y	617	XAT	C31-C30-C29	3.52	132.22	127.28
25	J	102	BCR	C12-C13-C14	3.52	124.55	119.01
22	y	617	XAT	C15-C35-C34	3.52	130.72	123.52
21	A	814	CLA	C3B-C4B-NB	-3.52	107.39	110.53
21	3	608	CLA	CMA-C3A-C2A	-3.52	108.17	116.23
22	4	617	XAT	C12-C13-C14	3.52	124.54	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	849	BCR	C12-C13-C14	3.51	124.53	119.01
25	L	305	BCR	C15-C16-C17	3.51	130.69	123.52
21	A	820	CLA	O2D-CGD-O1D	-3.51	117.02	123.85
21	B	818	CLA	O2D-CGD-O1D	-3.51	117.02	123.85
20	z	607	CHL	C4-C3-C5	3.50	120.25	116.13
21	B	805	CLA	O2D-CGD-O1D	-3.50	117.03	123.85
24	y	616	LUT	C39-C29-C30	-3.50	117.14	122.82
25	B	846	BCR	C12-C13-C14	3.50	124.51	119.01
25	B	845	BCR	C34-C9-C10	-3.49	117.16	122.82
25	3	614	BCR	C15-C16-C17	3.49	130.66	123.52
25	B	845	BCR	C16-C17-C18	3.49	132.17	127.28
25	3	614	BCR	C34-C9-C10	-3.49	117.17	122.82
25	A	852	BCR	C15-C16-C17	3.48	130.65	123.52
24	y	616	LUT	C19-C9-C10	-3.48	117.17	122.82
21	1	608	CLA	CAA-C2A-C3A	-3.48	108.24	116.23
24	z	616	LUT	C31-C30-C29	3.48	132.16	127.28
25	L	301	BCR	C36-C18-C17	-3.48	117.17	122.82
25	B	843	BCR	C7-C8-C9	-3.48	121.09	126.23
31	y	618	NEX	C12-C13-C14	3.48	124.48	119.01
21	B	829	CLA	O2D-CGD-O1D	-3.47	117.08	123.85
21	A	840	CLA	O2D-CGD-O1D	-3.47	117.09	123.85
24	1	616	LUT	C40-C33-C34	-3.47	117.20	122.82
24	x	615	LUT	C19-C9-C10	-3.47	117.20	122.82
24	y	615	LUT	C39-C29-C28	3.47	123.38	118.09
21	B	807	CLA	O2D-CGD-O1D	-3.46	117.11	123.85
21	B	832	CLA	C3B-C4B-NB	-3.46	107.44	110.53
22	x	617	XAT	C11-C10-C9	3.46	132.13	127.28
24	x	616	LUT	C30-C31-C32	3.46	133.23	123.20
25	B	801	BCR	C37-C22-C21	-3.46	117.21	122.82
25	O	205	BCR	C34-C9-C10	-3.45	117.22	122.82
25	4	618	BCR	C34-C9-C10	-3.45	117.22	122.82
25	A	853	BCR	C12-C13-C14	3.45	124.44	119.01
22	x	617	XAT	C39-C29-C30	-3.45	117.22	122.82
25	A	853	BCR	C37-C22-C21	-3.45	117.23	122.82
21	K	203	CLA	O2D-CGD-O1D	-3.45	117.14	123.85
20	y	601	CHL	C1-C2-C3	-3.45	120.55	126.20
24	2	616	LUT	C19-C9-C8	3.44	123.35	118.09
21	z	614	CLA	O2D-CGD-O1D	-3.44	117.15	123.85
25	A	848	BCR	C37-C22-C21	-3.44	117.24	122.82
21	A	828	CLA	O2D-CGD-O1D	-3.44	117.15	123.85
21	B	825	CLA	O2D-CGD-O1D	-3.44	117.16	123.85
25	J	102	BCR	C37-C22-C21	-3.43	117.25	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	835	CLA	O2D-CGD-O1D	-3.43	117.17	123.85
21	B	808	CLA	O2D-CGD-O1D	-3.43	117.18	123.85
20	z	609	CHL	C1B-CHB-C4A	-3.42	119.12	121.32
20	z	601	CHL	C1-C2-C3	-3.42	120.59	126.20
21	A	810	CLA	O2D-CGD-O1D	-3.42	117.19	123.85
25	L	301	BCR	C34-C9-C10	-3.42	117.28	122.82
25	B	847	BCR	C34-C9-C10	-3.42	117.28	122.82
31	y	618	NEX	C39-C29-C30	-3.42	117.28	122.82
24	z	615	LUT	C12-C13-C14	3.41	124.37	119.01
21	4	609	CLA	C3B-C4B-NB	-3.41	107.49	110.53
25	L	306	BCR	C10-C11-C12	3.41	133.08	123.20
21	B	838	CLA	O2D-CGD-O1D	-3.41	117.22	123.85
25	I	101	BCR	C37-C22-C21	-3.41	117.30	122.82
25	L	305	BCR	C19-C18-C17	3.40	124.36	119.01
25	A	848	BCR	C34-C9-C10	-3.40	117.31	122.82
25	B	849	BCR	C30-C25-C24	3.40	124.87	115.65
25	G	204	BCR	C34-C9-C10	-3.40	117.31	122.82
21	A	824	CLA	O2D-CGD-O1D	-3.40	117.24	123.85
24	2	616	LUT	C19-C9-C10	-3.39	117.32	122.82
25	B	845	BCR	C12-C13-C14	3.39	124.35	119.01
25	A	850	BCR	C15-C14-C13	3.39	132.04	127.28
25	A	852	BCR	C1-C6-C5	-3.39	118.00	122.64
21	y	603	CLA	O2D-CGD-O1D	-3.39	117.26	123.85
21	4	614	CLA	O2D-CGD-O1D	-3.38	117.27	123.85
24	y	615	LUT	C40-C33-C34	-3.38	117.34	122.82
25	B	849	BCR	C37-C22-C21	-3.37	117.35	122.82
25	J	102	BCR	C8-C9-C10	3.37	124.31	119.01
25	L	305	BCR	C34-C9-C10	-3.37	117.36	122.82
31	z	618	NEX	C35-C15-C14	3.36	130.40	123.52
25	O	205	BCR	C37-C22-C21	-3.36	117.37	122.82
21	B	815	CLA	O2D-CGD-O1D	-3.36	117.31	123.85
24	y	616	LUT	C26-C27-C28	3.36	129.81	124.58
25	I	101	BCR	C34-C9-C10	-3.36	117.38	122.82
24	x	616	LUT	C19-C9-C10	-3.35	117.38	122.82
31	x	618	NEX	C40-C33-C34	-3.35	117.39	122.82
21	B	802	CLA	C3B-C4B-NB	-3.34	107.54	110.53
22	1	614	XAT	C27-C28-C29	-3.34	120.34	125.53
25	L	306	BCR	C19-C18-C17	3.34	124.27	119.01
21	B	808	CLA	C3B-C4B-NB	-3.34	107.55	110.53
21	B	820	CLA	O2D-CGD-O1D	-3.34	117.35	123.85
21	G	201	CLA	O2D-CGD-O1D	-3.33	117.36	123.85
21	B	804	CLA	O2D-CGD-O1D	-3.33	117.36	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	847	BCR	C37-C22-C21	-3.33	117.42	122.82
24	4	616	LUT	C19-C9-C10	-3.33	117.42	122.82
27	A	801	CL0	C2C-C1C-NC	3.33	119.89	110.46
22	1	614	XAT	C11-C10-C9	-3.33	122.61	127.28
25	B	848	BCR	C34-C9-C10	-3.33	117.42	122.82
21	3	607	CLA	C3B-C4B-NB	-3.33	107.56	110.53
25	B	848	BCR	C37-C22-C21	-3.33	117.43	122.82
20	z	601	CHL	C1B-CHB-C4A	3.33	123.46	121.32
24	4	616	LUT	C39-C29-C30	-3.33	117.43	122.82
24	z	615	LUT	C39-C29-C30	-3.32	117.43	122.82
25	B	844	BCR	C8-C9-C10	3.32	124.24	119.01
21	A	805	CLA	O2D-CGD-O1D	-3.32	117.38	123.85
25	K	205	BCR	C21-C20-C19	3.32	132.82	123.20
25	A	850	BCR	C37-C22-C21	-3.32	117.44	122.82
21	B	832	CLA	O2D-CGD-O1D	-3.32	117.39	123.85
20	z	609	CHL	C1-C2-C3	-3.32	120.77	126.20
21	L	302	CLA	O2D-CGD-O1D	-3.32	117.39	123.85
22	2	617	XAT	C32-C33-C34	3.31	124.22	119.01
25	O	204	BCR	C34-C9-C10	-3.31	117.45	122.82
21	A	827	CLA	O2D-CGD-O1D	-3.31	117.40	123.85
21	B	826	CLA	O2D-CGD-O1D	-3.31	117.41	123.85
21	x	602	CLA	C1-C2-C3	-3.30	120.78	126.20
21	L	302	CLA	C3B-C4B-NB	-3.30	107.58	110.53
31	x	618	NEX	C30-C31-C32	3.29	132.74	123.20
22	y	617	XAT	C10-C11-C12	3.29	132.74	123.20
21	y	604	CLA	O2D-CGD-O1D	-3.29	117.44	123.85
25	A	849	BCR	C34-C9-C10	-3.29	117.49	122.82
25	L	301	BCR	C19-C18-C17	3.29	124.18	119.01
21	A	838	CLA	C3B-C4B-NB	-3.29	107.60	110.53
25	L	305	BCR	C12-C13-C14	3.28	124.18	119.01
25	B	843	BCR	C37-C22-C21	-3.28	117.50	122.82
25	F	304	BCR	C35-C13-C14	-3.28	117.50	122.82
21	A	842	CLA	O2D-CGD-O1D	-3.28	117.46	123.85
21	B	841	CLA	O2D-CGD-O1D	-3.28	117.46	123.85
21	A	802	CLA	CHB-C4A-NA	3.28	129.13	124.40
21	F	301	CLA	C3B-C4B-NB	-3.28	107.61	110.53
24	2	619	LUT	C40-C33-C34	-3.27	117.51	122.82
21	z	611	CLA	O2D-CGD-O1D	-3.27	117.48	123.85
22	y	617	XAT	C20-C13-C14	-3.27	117.52	122.82
21	y	612	CLA	C3B-C4B-NB	-3.26	107.62	110.53
25	A	849	BCR	C1-C6-C5	-3.26	118.18	122.64
24	1	616	LUT	C12-C13-C14	3.26	124.13	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	810	CLA	C3B-C4B-NB	-3.26	107.62	110.53
21	B	816	CLA	C3B-C4B-NB	-3.26	107.62	110.53
25	B	801	BCR	C12-C13-C14	3.25	124.13	119.01
21	A	841	CLA	O2D-CGD-O1D	-3.25	117.52	123.85
21	B	836	CLA	C3B-C4B-NB	-3.25	107.63	110.53
25	O	205	BCR	C15-C16-C17	3.25	130.17	123.52
20	x	601	CHL	OMC-CMC-C2C	-3.24	119.49	125.12
25	L	306	BCR	C35-C13-C14	-3.24	117.56	122.82
20	1	606	CHL	C1B-CHB-C4A	3.24	123.41	121.32
25	3	614	BCR	C37-C22-C21	-3.24	117.57	122.82
24	x	615	LUT	C39-C29-C30	-3.24	117.57	122.82
21	A	815	CLA	O2D-CGD-O1D	-3.23	117.56	123.85
25	F	304	BCR	C8-C9-C10	3.23	124.09	119.01
21	B	823	CLA	C3B-C4B-NB	-3.23	107.64	110.53
20	2	601	CHL	O1D-CGD-CBD	-3.23	119.83	124.72
21	x	603	CLA	O2D-CGD-O1D	-3.23	117.56	123.85
21	B	828	CLA	C3B-C4B-NB	-3.23	107.65	110.53
22	x	617	XAT	C6-C7-C8	3.23	132.81	125.99
25	B	844	BCR	C36-C18-C17	-3.23	117.59	122.82
21	A	808	CLA	C3B-C4B-NB	-3.22	107.65	110.53
25	A	848	BCR	C19-C18-C17	3.22	124.08	119.01
24	y	616	LUT	C32-C33-C34	3.22	124.08	119.01
25	B	801	BCR	C15-C16-C17	3.22	130.11	123.52
21	B	812	CLA	C3B-C4B-NB	-3.22	107.66	110.53
21	4	610	CLA	C3B-C4B-NB	-3.22	107.66	110.53
25	A	852	BCR	C34-C9-C10	-3.22	117.60	122.82
21	A	831	CLA	O2D-CGD-O1D	-3.22	117.59	123.85
25	B	843	BCR	C15-C14-C13	3.22	131.79	127.28
20	y	609	CHL	C4-C3-C5	3.21	120.81	115.23
25	4	618	BCR	C37-C22-C21	-3.21	117.61	122.82
25	K	202	BCR	C8-C9-C10	3.21	124.06	119.01
20	z	609	CHL	OMC-CMC-C2C	-3.21	119.54	125.12
21	2	613	CLA	C3B-C4B-NB	-3.21	107.67	110.53
21	A	835	CLA	C3B-C4B-NB	-3.21	107.67	110.53
20	y	601	CHL	OMC-CMC-C2C	-3.21	119.55	125.12
24	2	616	LUT	C35-C15-C14	3.20	130.07	123.52
20	x	609	CHL	O2D-CGD-O1D	-3.20	117.61	123.85
24	z	616	LUT	C40-C33-C34	-3.20	117.63	122.82
24	z	615	LUT	C15-C35-C34	3.20	130.06	123.52
25	A	852	BCR	C36-C18-C17	-3.20	117.63	122.82
25	K	202	BCR	C21-C20-C19	3.20	132.47	123.20
21	2	610	CLA	CHA-C1A-NA	-3.19	123.17	126.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	3	611	CLA	C3B-C4B-NB	-3.19	107.68	110.53
20	1	601	CHL	C1B-CHB-C4A	3.19	123.38	121.32
25	B	846	BCR	C37-C22-C21	-3.19	117.65	122.82
21	A	834	CLA	C3B-C4B-NB	-3.19	107.69	110.53
25	A	853	BCR	C35-C13-C14	-3.19	117.66	122.82
21	A	826	CLA	O2D-CGD-O1D	-3.18	117.65	123.85
21	A	839	CLA	O2D-CGD-O1D	-3.18	117.65	123.85
20	z	607	CHL	C1C-CHC-C4B	3.18	127.46	116.07
21	z	612	CLA	C3B-C4B-NB	-3.18	107.69	110.53
20	2	605	CHL	C4C-C3C-C2C	-3.18	101.09	108.42
21	A	807	CLA	C3B-C4B-NB	-3.18	107.69	110.53
24	x	616	LUT	C40-C33-C34	-3.18	117.67	122.82
25	L	301	BCR	C23-C22-C21	3.18	124.01	119.01
25	A	852	BCR	C35-C13-C14	-3.17	117.67	122.82
22	1	614	XAT	C31-C30-C29	-3.17	122.83	127.28
21	B	833	CLA	CAA-C2A-C3A	-3.17	104.42	113.00
21	B	816	CLA	O2D-CGD-O1D	-3.17	117.67	123.85
20	4	606	CHL	C4C-C3C-C2C	-3.17	100.84	113.37
21	3	605	CLA	O2D-CGD-O1D	-3.17	117.67	123.85
21	4	601	CLA	O2D-CGD-O1D	-3.17	117.68	123.85
25	B	847	BCR	C12-C13-C14	3.17	123.99	119.01
25	B	845	BCR	C21-C20-C19	3.17	132.38	123.20
21	z	614	CLA	C3B-C4B-NB	-3.17	107.70	110.53
25	B	846	BCR	C35-C13-C14	-3.17	117.69	122.82
21	A	810	CLA	C3B-C4B-NB	-3.16	107.71	110.53
21	A	824	CLA	C3B-C4B-NB	-3.16	107.71	110.53
21	B	822	CLA	C3B-C4B-NB	-3.16	107.71	110.53
25	K	202	BCR	C36-C18-C17	-3.16	117.70	122.82
21	B	833	CLA	O2D-CGD-O1D	-3.16	117.70	123.85
20	x	607	CHL	C1-C2-C3	-3.16	121.02	126.20
24	2	616	LUT	C20-C13-C14	-3.16	117.70	122.82
24	y	615	LUT	C15-C14-C13	3.16	131.70	127.28
31	x	618	NEX	C39-C29-C30	-3.15	117.71	122.82
25	L	305	BCR	C36-C18-C17	-3.15	117.71	122.82
24	2	616	LUT	C35-C34-C33	3.15	131.70	127.28
25	4	618	BCR	C15-C16-C17	3.15	129.96	123.52
21	3	601	CLA	O2D-CGD-O1D	-3.15	117.72	123.85
21	B	805	CLA	C3B-C4B-NB	-3.14	107.72	110.53
21	4	601	CLA	C3B-C4B-NB	-3.14	107.72	110.53
21	x	602	CLA	O2D-CGD-O1D	-3.14	117.74	123.85
25	O	204	BCR	C16-C15-C14	3.14	129.94	123.52
25	A	852	BCR	C21-C20-C19	3.14	132.30	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	4	616	LUT	C35-C15-C14	3.14	129.94	123.52
21	4	613	CLA	C3B-C4B-NB	-3.13	107.73	110.53
21	A	838	CLA	O2D-CGD-O1D	-3.13	117.75	123.85
25	B	849	BCR	C34-C9-C10	-3.13	117.74	122.82
20	z	608	CHL	O2A-CGA-CBA	3.13	121.38	111.83
21	B	810	CLA	O2D-CGD-O1D	-3.13	117.75	123.85
20	x	609	CHL	O1D-CGD-CBD	-3.13	119.98	124.72
21	1	603	CLA	O2D-CGD-O1D	-3.13	117.76	123.85
24	2	619	LUT	C26-C27-C28	3.13	129.44	124.58
21	1	612	CLA	C3B-C4B-NB	-3.13	107.74	110.53
20	x	607	CHL	OMC-CMC-C2C	-3.13	119.69	125.12
21	B	831	CLA	O2D-CGD-O1D	-3.12	117.77	123.85
25	G	204	BCR	C19-C18-C17	3.12	123.92	119.01
21	B	811	CLA	O2D-CGD-O1D	-3.12	117.77	123.85
21	A	809	CLA	O2D-CGD-O1D	-3.12	117.78	123.85
21	B	819	CLA	C3B-C4B-NB	-3.11	107.75	110.53
20	4	607	CHL	CMB-C2B-C3B	3.11	130.91	124.68
22	2	617	XAT	C30-C31-C32	3.11	132.22	123.20
21	y	613	CLA	O2D-CGD-O1D	-3.11	117.79	123.85
31	z	618	NEX	C28-C29-C30	3.11	123.90	119.01
20	x	605	CHL	O2A-CGA-CBA	3.11	121.31	111.83
24	1	616	LUT	C8-C9-C10	3.11	123.90	119.01
21	A	812	CLA	C3B-C4B-NB	-3.11	107.76	110.53
21	x	612	CLA	C3B-C4B-NB	-3.11	107.76	110.53
21	O	203	CLA	CAA-C2A-C3A	-3.10	109.11	116.23
24	3	613	LUT	C35-C34-C33	3.10	131.63	127.28
25	B	849	BCR	C35-C13-C14	-3.10	117.79	122.82
21	B	814	CLA	O2D-CGD-O1D	-3.10	117.82	123.85
24	z	615	LUT	C20-C13-C14	-3.10	117.80	122.82
22	4	617	XAT	C36-C21-C26	3.09	118.40	110.05
25	B	849	BCR	C15-C16-C17	3.09	129.85	123.52
21	B	822	CLA	O2D-CGD-O1D	-3.09	117.83	123.85
25	J	102	BCR	C35-C13-C14	-3.09	117.81	122.82
21	A	817	CLA	C3B-C4B-NB	-3.09	107.77	110.53
21	A	821	CLA	C3B-C4B-NB	-3.09	107.77	110.53
21	A	840	CLA	C3B-C4B-NB	-3.09	107.77	110.53
21	A	819	CLA	C3B-C4B-NB	-3.09	107.77	110.53
21	B	834	CLA	C3B-C4B-NB	-3.09	107.77	110.53
20	y	609	CHL	OMC-CMC-C2C	-3.09	119.76	125.12
21	B	827	CLA	O2D-CGD-O1D	-3.09	117.84	123.85
21	z	611	CLA	C3B-C4B-NB	-3.09	107.77	110.53
21	B	838	CLA	C3B-C4B-NB	-3.09	107.78	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	4	605	CHL	C1C-CHC-C4B	3.09	127.11	116.07
21	3	604	CLA	C3B-C4B-NB	-3.08	107.78	110.53
21	z	602	CLA	C3B-C4B-NB	-3.08	107.78	110.53
21	B	835	CLA	C3B-C4B-NB	-3.08	107.78	110.53
21	B	803	CLA	CHB-C4A-NA	3.08	128.84	124.40
21	B	808	CLA	O2A-CGA-O1A	-3.07	115.94	123.63
21	3	609	CLA	C3B-C4B-NB	-3.07	107.79	110.53
20	y	607	CHL	C1C-CHC-C4B	3.07	127.06	116.07
25	F	304	BCR	C1-C6-C5	-3.07	118.44	122.64
21	B	809	CLA	O2D-CGD-O1D	-3.07	117.87	123.85
24	2	616	LUT	C30-C31-C32	3.07	132.09	123.20
22	x	617	XAT	C15-C14-C13	3.07	131.58	127.28
21	A	822	CLA	O2D-CGD-O1D	-3.07	117.88	123.85
22	z	617	XAT	C12-C13-C14	3.07	123.83	119.01
25	A	850	BCR	C8-C9-C10	3.07	123.83	119.01
21	A	806	CLA	O2D-CGD-O1D	-3.07	117.88	123.85
22	y	617	XAT	C32-C33-C34	3.07	123.83	119.01
21	K	201	CLA	C3B-C4B-NB	-3.06	107.79	110.53
21	K	204	CLA	C3B-C4B-NB	-3.06	107.80	110.53
20	x	601	CHL	CBC-CAC-C3C	-3.06	108.49	112.87
20	x	605	CHL	CBC-CAC-C3C	-3.06	108.49	112.87
21	y	610	CLA	C3B-C4B-NB	-3.06	107.80	110.53
21	A	829	CLA	C3B-C4B-NB	-3.06	107.80	110.53
20	z	601	CHL	CBC-CAC-C3C	-3.06	108.49	112.87
20	z	608	CHL	C1C-CHC-C4B	3.06	127.01	116.07
21	F	303	CLA	C3B-C4B-NB	-3.06	107.80	110.53
21	y	603	CLA	C3B-C4B-NB	-3.06	107.80	110.53
21	4	613	CLA	O2D-CGD-O1D	-3.06	117.90	123.85
21	A	824	CLA	CAA-C2A-C3A	-3.06	109.22	116.23
21	B	817	CLA	C3B-C4B-NB	-3.05	107.80	110.53
21	B	812	CLA	O2D-CGD-O1D	-3.05	117.90	123.85
21	4	608	CLA	C3B-C4B-NB	-3.05	107.80	110.53
24	y	616	LUT	C35-C15-C14	3.05	129.77	123.52
25	L	305	BCR	C23-C22-C21	3.05	123.81	119.01
20	x	605	CHL	C1-C2-C3	-3.05	121.20	126.20
20	z	605	CHL	O2D-CGD-O1D	-3.05	117.91	123.85
21	1	605	CLA	O2D-CGD-O1D	-3.05	117.91	123.85
21	A	819	CLA	O2D-CGD-O1D	-3.05	117.91	123.85
21	B	824	CLA	O2D-CGD-O1D	-3.05	117.92	123.85
21	1	610	CLA	CAA-C2A-C3A	-3.05	109.25	116.23
21	1	604	CLA	C3B-C4B-NB	-3.04	107.81	110.53
21	A	822	CLA	C3B-C4B-NB	-3.04	107.81	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	A	851	BCR	C19-C18-C17	3.04	123.80	119.01
21	x	611	CLA	O2D-CGD-O1D	-3.04	117.93	123.85
20	y	608	CHL	O2A-CGA-CBA	3.04	121.11	111.83
21	2	602	CLA	C3B-C4B-NB	-3.04	107.82	110.53
21	A	804	CLA	C3B-C4B-NB	-3.04	107.82	110.53
21	O	202	CLA	C3A-C2A-C1A	-3.03	103.20	106.30
21	z	602	CLA	O2D-CGD-O1D	-3.03	117.94	123.85
21	A	813	CLA	C3B-C4B-NB	-3.03	107.82	110.53
21	1	602	CLA	O2D-CGD-O1D	-3.03	117.95	123.85
21	y	602	CLA	O2D-CGD-O1D	-3.03	117.95	123.85
20	2	606	CHL	C1C-CHC-C4B	3.03	126.91	116.07
21	B	807	CLA	C3B-C4B-NB	-3.03	107.83	110.53
21	3	602	CLA	C3B-C4B-NB	-3.03	107.83	110.53
21	B	839	CLA	C3B-C4B-NB	-3.03	107.83	110.53
21	K	206	CLA	C3B-C4B-NB	-3.03	107.83	110.53
20	z	601	CHL	OMC-CMC-C2C	-3.03	119.87	125.12
21	1	613	CLA	CAA-C2A-C3A	-3.02	109.30	116.23
21	A	845	CLA	C3B-C4B-NB	-3.02	107.83	110.53
21	B	839	CLA	O2D-CGD-O1D	-3.02	117.96	123.85
31	y	618	NEX	C20-C13-C14	-3.02	117.92	122.82
21	2	602	CLA	O2D-CGD-O1D	-3.02	117.97	123.85
21	4	611	CLA	C3B-C4B-NB	-3.02	107.83	110.53
21	A	837	CLA	O2D-CGD-O1D	-3.02	117.98	123.85
21	A	834	CLA	O2D-CGD-O1D	-3.02	117.98	123.85
24	y	615	LUT	C10-C11-C12	3.02	131.94	123.20
21	4	613	CLA	CHB-C4A-NA	3.01	128.75	124.40
21	A	832	CLA	O2D-CGD-O1D	-3.01	117.98	123.85
20	4	605	CHL	C4C-C3C-C2C	-3.01	101.48	108.42
21	3	612	CLA	C3B-C4B-NB	-3.01	107.84	110.53
21	A	816	CLA	O2D-CGD-O1D	-3.01	117.99	123.85
21	B	834	CLA	O2D-CGD-O1D	-3.01	117.99	123.85
21	A	836	CLA	C3B-C4B-NB	-3.01	107.84	110.53
21	y	613	CLA	C3B-C4B-NB	-3.01	107.84	110.53
20	3	606	CHL	C4C-C3C-C2C	-3.01	101.48	113.37
25	B	847	BCR	C35-C13-C14	-3.01	117.94	122.82
21	L	304	CLA	C3B-C4B-NB	-3.01	107.84	110.53
21	B	802	CLA	O2D-CGD-O1D	-3.01	117.99	123.85
21	A	832	CLA	C3B-C4B-NB	-3.01	107.84	110.53
21	A	825	CLA	C3B-C4B-NB	-3.01	107.85	110.53
21	1	604	CLA	O2D-CGD-O1D	-3.00	118.00	123.85
25	A	848	BCR	C36-C18-C17	-3.00	117.95	122.82
21	B	836	CLA	O2D-CGD-O1D	-3.00	118.00	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	1	601	CHL	O2A-CGA-CBA	3.00	120.99	111.83
25	L	306	BCR	C36-C18-C17	-3.00	117.96	122.82
21	A	821	CLA	O2D-CGD-O1D	-3.00	118.01	123.85
21	4	614	CLA	C3B-C4B-NB	-3.00	107.86	110.53
24	3	613	LUT	C8-C9-C10	3.00	123.72	119.01
21	A	806	CLA	C3B-C4B-NB	-2.99	107.86	110.53
21	O	201	CLA	O2D-CGD-O1D	-2.99	118.02	123.85
21	2	612	CLA	C3B-C4B-NB	-2.99	107.86	110.53
21	O	202	CLA	C3B-C4B-NB	-2.99	107.86	110.53
25	G	204	BCR	C30-C25-C26	-2.99	118.55	122.64
21	J	101	CLA	C3B-C4B-NB	-2.99	107.86	110.53
21	z	610	CLA	C3B-C4B-NB	-2.99	107.86	110.53
22	4	617	XAT	C8-C9-C10	2.99	123.71	119.01
21	B	817	CLA	O2D-CGD-O1D	-2.99	118.03	123.85
25	F	304	BCR	C16-C17-C18	2.99	131.47	127.28
20	2	607	CHL	O2A-CGA-CBA	2.99	120.94	111.83
25	B	801	BCR	C11-C10-C9	2.99	131.47	127.28
21	A	830	CLA	O2D-CGD-O1D	-2.99	118.04	123.85
21	B	830	CLA	O2D-CGD-O1D	-2.98	118.04	123.85
24	3	613	LUT	C10-C11-C12	2.98	131.84	123.20
21	4	610	CLA	O2D-CGD-O1D	-2.98	118.04	123.85
21	1	603	CLA	C3B-C4B-NB	-2.98	107.87	110.53
24	x	615	LUT	C39-C29-C28	2.98	122.64	118.09
21	3	610	CLA	C3B-C4B-NB	-2.98	107.87	110.53
25	K	205	BCR	C35-C13-C14	-2.98	117.99	122.82
25	A	851	BCR	C35-C13-C14	-2.98	117.99	122.82
21	A	814	CLA	O2D-CGD-O1D	-2.98	118.05	123.85
21	2	608	CLA	C3B-C4B-NB	-2.98	107.87	110.53
20	x	608	CHL	C1C-CHC-C4B	2.97	126.71	116.07
21	F	303	CLA	O2D-CGD-O1D	-2.97	118.06	123.85
20	z	607	CHL	O2A-CGA-CBA	2.97	120.90	111.83
21	1	611	CLA	C3B-C4B-NB	-2.97	107.88	110.53
21	A	823	CLA	O2D-CGD-O1D	-2.97	118.07	123.85
21	A	833	CLA	O2D-CGD-O1D	-2.97	118.07	123.85
21	F	302	CLA	C3B-C4B-NB	-2.97	107.88	110.53
24	y	616	LUT	C40-C33-C34	-2.97	118.01	122.82
20	x	605	CHL	C1C-CHC-C4B	2.97	126.68	116.07
21	B	827	CLA	C3B-C4B-NB	-2.96	107.88	110.53
20	2	601	CHL	C1C-CHC-C4B	2.96	126.67	116.07
27	A	801	CL0	O2A-CGA-CBA	2.96	120.87	111.83
20	2	615	CHL	C1C-CHC-C4B	2.96	126.67	116.07
21	A	818	CLA	C3B-C4B-NB	-2.96	107.89	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	815	CLA	C3B-C4B-NB	-2.96	107.89	110.53
21	y	612	CLA	O2D-CGD-O1D	-2.96	118.09	123.85
21	A	802	CLA	C3B-C4B-NB	-2.96	107.89	110.53
20	z	605	CHL	C1C-CHC-C4B	2.96	126.65	116.07
22	2	617	XAT	C12-C13-C14	2.95	123.66	119.01
25	B	801	BCR	C35-C13-C14	-2.95	118.03	122.82
25	B	844	BCR	C12-C13-C14	2.95	123.65	119.01
20	x	606	CHL	C1C-CHC-C4B	2.95	126.63	116.07
21	G	202	CLA	C3B-C4B-NB	-2.95	107.90	110.53
21	B	840	CLA	O2D-CGD-O1D	-2.95	118.11	123.85
21	x	604	CLA	O2D-CGD-O1D	-2.95	118.11	123.85
21	A	802	CLA	O2A-CGA-O1A	-2.95	116.25	123.63
24	y	615	LUT	C26-C27-C28	2.95	129.16	124.58
21	F	302	CLA	CHB-C4A-NA	2.95	128.65	124.40
20	y	606	CHL	C1C-CHC-C4B	2.95	126.61	116.07
21	A	825	CLA	O2D-CGD-O1D	-2.95	118.11	123.85
27	A	801	CL0	C4C-C3C-C2C	-2.94	101.74	113.37
31	z	618	NEX	C32-C33-C34	2.94	123.64	119.01
21	x	611	CLA	C3B-C4B-NB	-2.94	107.90	110.53
21	y	614	CLA	C3B-C4B-NB	-2.94	107.90	110.53
25	G	204	BCR	C36-C18-C17	-2.94	118.05	122.82
22	y	617	XAT	C40-C33-C34	-2.94	118.06	122.82
21	2	604	CLA	CHB-C4A-NA	2.94	128.64	124.40
21	1	607	CLA	C3B-C4B-NB	-2.94	107.91	110.53
21	B	840	CLA	C3B-C4B-NB	-2.94	107.91	110.53
21	B	821	CLA	C3B-C4B-NB	-2.94	107.91	110.53
21	B	828	CLA	O2D-CGD-O1D	-2.94	118.13	123.85
20	2	607	CHL	C1C-CHC-C4B	2.94	126.58	116.07
25	L	301	BCR	C10-C11-C12	2.94	131.71	123.20
31	y	618	NEX	C32-C33-C34	2.94	123.63	119.01
21	2	609	CLA	C3B-C4B-NB	-2.93	107.91	110.53
21	G	203	CLA	O2D-CGD-O1D	-2.93	118.14	123.85
25	L	305	BCR	C35-C13-C14	-2.93	118.06	122.82
21	B	803	CLA	O2D-CGD-O1D	-2.93	118.14	123.85
25	A	848	BCR	C16-C15-C14	2.93	129.52	123.52
21	K	203	CLA	C3B-C4B-NB	-2.93	107.91	110.53
25	B	848	BCR	C16-C15-C14	2.93	129.51	123.52
21	J	101	CLA	O2D-CGD-O1D	-2.93	118.14	123.85
21	B	823	CLA	O2D-CGD-O1D	-2.93	118.15	123.85
21	x	612	CLA	O2D-CGD-O1D	-2.93	118.15	123.85
21	4	602	CLA	O2D-CGD-O1D	-2.93	118.15	123.85
21	A	830	CLA	CHB-C4A-NA	2.93	128.62	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	G	202	CLA	O2D-CGD-O1D	-2.93	118.15	123.85
21	B	833	CLA	C3B-C4B-NB	-2.92	107.92	110.53
24	x	616	LUT	C27-C28-C29	2.92	132.61	126.32
21	A	808	CLA	O2D-CGD-O1D	-2.92	118.16	123.85
21	B	826	CLA	C3B-C4B-NB	-2.92	107.92	110.53
31	x	618	NEX	C8-C7-C6	-2.92	174.21	177.66
20	z	601	CHL	O1D-CGD-CBD	-2.92	120.30	124.72
21	O	201	CLA	C3B-C4B-NB	-2.92	107.92	110.53
20	y	601	CHL	C4-C3-C5	2.92	120.29	115.23
31	x	618	NEX	C36-C21-C22	-2.92	103.84	108.97
21	2	610	CLA	O2D-CGD-O1D	-2.91	118.18	123.85
21	A	839	CLA	C3B-C4B-NB	-2.91	107.93	110.53
25	A	848	BCR	C29-C30-C25	2.91	114.67	110.44
30	B	850	DGD	C2G-O2G-C1B	-2.91	110.83	117.80
20	3	606	CHL	C1C-CHC-C4B	2.91	126.48	116.07
22	2	617	XAT	C35-C34-C33	2.91	131.36	127.28
21	2	610	CLA	C1A-CHA-C4D	-2.91	121.67	125.69
20	2	605	CHL	OMC-CMC-C2C	-2.91	120.07	125.12
21	B	804	CLA	CAA-C2A-C3A	-2.91	109.57	116.23
25	B	845	BCR	C35-C13-C14	-2.91	118.11	122.82
21	z	603	CLA	O2D-CGD-O1D	-2.91	118.19	123.85
25	B	849	BCR	C19-C18-C17	2.90	123.58	119.01
25	B	844	BCR	C35-C13-C14	-2.90	118.11	122.82
31	x	618	NEX	C35-C15-C14	2.90	129.46	123.52
20	2	615	CHL	C1B-CHB-C4A	2.90	123.19	121.32
25	K	202	BCR	C10-C11-C12	2.90	131.60	123.20
21	K	206	CLA	C3A-C2A-C1A	-2.90	103.33	106.30
22	z	617	XAT	C20-C13-C14	-2.90	118.12	122.82
21	A	843	CLA	O2D-CGD-O1D	-2.90	118.20	123.85
20	4	615	CHL	C1C-CHC-C4B	2.90	126.44	116.07
20	4	607	CHL	C1C-CHC-C4B	2.90	126.44	116.07
25	A	849	BCR	C16-C17-C18	2.90	131.34	127.28
25	4	618	BCR	C12-C13-C14	2.90	123.57	119.01
21	z	602	CLA	C1-C2-C3	2.90	130.94	126.20
25	A	851	BCR	C10-C11-C12	-2.90	114.81	123.20
21	1	605	CLA	C3B-C4B-NB	-2.89	107.95	110.53
21	y	614	CLA	O2D-CGD-O1D	-2.89	118.22	123.85
24	1	616	LUT	C39-C29-C30	-2.89	118.13	122.82
20	y	605	CHL	C1C-CHC-C4B	2.88	126.39	116.07
25	G	204	BCR	C16-C15-C14	2.88	129.42	123.52
21	1	611	CLA	O2D-CGD-O1D	-2.88	118.24	123.85
31	x	618	NEX	C19-C9-C10	-2.88	118.14	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	817	CLA	O2D-CGD-O1D	-2.88	118.24	123.85
20	2	605	CHL	C1C-CHC-C4B	2.88	126.38	116.07
24	1	616	LUT	C20-C13-C14	-2.88	118.15	122.82
21	A	828	CLA	C3B-C4B-NB	-2.88	107.96	110.53
21	z	604	CLA	O2D-CGD-O1D	-2.88	118.24	123.85
20	x	607	CHL	C4-C3-C5	2.88	120.23	115.23
21	1	609	CLA	CHB-C4A-NA	2.88	128.56	124.40
20	y	608	CHL	C1C-CHC-C4B	2.88	126.37	116.07
21	G	201	CLA	C3B-C4B-NB	-2.88	107.96	110.53
21	3	607	CLA	O2D-CGD-O1D	-2.88	118.25	123.85
21	L	304	CLA	O2D-CGD-O1D	-2.88	118.25	123.85
21	A	803	CLA	O2D-CGD-O1D	-2.87	118.25	123.85
22	4	617	XAT	O23-C23-C22	-2.87	103.87	109.75
24	x	616	LUT	C35-C15-C14	2.87	129.40	123.52
25	A	851	BCR	C36-C18-C17	-2.87	118.17	122.82
21	y	602	CLA	C3B-C4B-NB	-2.87	107.97	110.53
25	I	101	BCR	C16-C15-C14	2.87	129.39	123.52
20	x	607	CHL	C1C-CHC-C4B	2.87	126.33	116.07
21	A	827	CLA	C3B-C4B-NB	-2.87	107.97	110.53
21	B	830	CLA	C3B-C4B-NB	-2.87	107.97	110.53
25	O	204	BCR	C19-C18-C17	2.87	123.52	119.01
20	x	609	CHL	C1C-CHC-C4B	2.86	126.32	116.07
21	x	604	CLA	C3B-C4B-NB	-2.86	107.97	110.53
31	z	618	NEX	C40-C33-C34	-2.86	118.18	122.82
21	A	810	CLA	C1-C2-C3	-2.86	122.13	126.76
21	1	609	CLA	C1C-C2C-C3C	-2.86	104.43	107.09
21	3	603	CLA	C3B-C4B-NB	-2.86	107.98	110.53
21	y	614	CLA	CHB-C4A-NA	2.86	128.53	124.40
21	4	612	CLA	O2D-CGD-O1D	-2.86	118.28	123.85
25	A	849	BCR	C19-C18-C17	2.86	123.50	119.01
20	z	609	CHL	O2A-CGA-CBA	2.85	120.54	111.83
21	A	844	CLA	O2D-CGD-O1D	-2.85	118.29	123.85
25	3	614	BCR	C19-C18-C17	2.85	123.50	119.01
21	A	811	CLA	O2D-CGD-O1D	-2.85	118.30	123.85
21	A	823	CLA	C3B-C4B-NB	-2.85	107.99	110.53
24	y	616	LUT	C28-C29-C30	2.85	123.49	119.01
20	x	605	CHL	OMC-CMC-C2C	-2.85	120.18	125.12
21	A	842	CLA	CAA-C2A-C3A	-2.85	105.31	113.00
20	y	605	CHL	CAA-C2A-C3A	-2.85	109.70	116.23
21	x	614	CLA	C3B-C4B-NB	-2.84	107.99	110.53
21	A	837	CLA	C3B-C4B-NB	-2.84	107.99	110.53
21	L	303	CLA	C3B-C4B-NB	-2.84	107.99	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2	612	CLA	O2D-CGD-O1D	-2.84	118.32	123.85
21	A	807	CLA	O2D-CGD-O1D	-2.84	118.32	123.85
21	F	303	CLA	CAA-C2A-C3A	-2.84	109.72	116.23
21	A	812	CLA	O2D-CGD-O1D	-2.84	118.32	123.85
21	3	602	CLA	O2D-CGD-O1D	-2.84	118.33	123.85
21	B	825	CLA	C3B-C4B-NB	-2.84	108.00	110.53
31	x	618	NEX	C12-C13-C14	2.84	123.47	119.01
21	B	811	CLA	CHB-C4A-NA	2.84	128.49	124.40
25	4	618	BCR	C35-C13-C14	-2.83	118.22	122.82
22	4	617	XAT	C15-C35-C34	2.83	129.32	123.52
21	x	603	CLA	C3B-C4B-NB	-2.83	108.00	110.53
24	3	613	LUT	C26-C27-C28	2.83	128.99	124.58
20	y	608	CHL	CBC-CAC-C3C	-2.83	108.82	112.87
21	4	604	CLA	O2D-CGD-O1D	-2.83	118.34	123.85
21	B	816	CLA	C1-C2-C3	-2.83	121.56	126.20
21	B	822	CLA	CHB-C4A-NA	2.83	128.49	124.40
21	A	842	CLA	CMB-C2B-C1B	-2.83	121.11	125.42
25	B	844	BCR	C30-C25-C26	-2.83	118.77	122.64
21	B	806	CLA	O2D-CGD-O1D	-2.83	118.35	123.85
31	y	618	NEX	C40-C33-C34	-2.82	118.24	122.82
20	4	606	CHL	C1C-CHC-C4B	2.82	126.17	116.07
21	A	804	CLA	CHB-C4A-NA	2.82	128.47	124.40
21	A	836	CLA	O2D-CGD-O1D	-2.82	118.36	123.85
25	A	853	BCR	C15-C16-C17	2.82	129.29	123.52
22	4	617	XAT	O4-C6-C7	2.82	124.95	116.88
21	B	827	CLA	CHB-C4A-NA	2.82	128.47	124.40
20	x	608	CHL	CAA-C2A-C3A	-2.82	109.77	116.23
21	4	608	CLA	O2D-CGD-O1D	-2.81	118.37	123.85
21	x	613	CLA	C3B-C4B-NB	-2.81	108.02	110.53
21	y	611	CLA	O2D-CGD-O1D	-2.81	118.37	123.85
22	2	617	XAT	C15-C14-C13	2.81	131.22	127.28
25	L	306	BCR	C21-C20-C19	2.81	131.34	123.20
21	x	614	CLA	O2D-CGD-O1D	-2.81	118.38	123.85
21	3	612	CLA	O2D-CGD-O1D	-2.81	117.71	124.08
20	y	609	CHL	O1D-CGD-CBD	-2.80	120.47	124.72
21	4	603	CLA	O2D-CGD-O1D	-2.80	118.40	123.85
25	B	801	BCR	C34-C9-C10	-2.80	118.28	122.82
20	y	601	CHL	O2A-CGA-CBA	2.80	120.36	111.83
20	z	607	CHL	O1D-CGD-CBD	-2.80	120.48	124.72
20	x	601	CHL	O2A-CGA-CBA	2.79	120.35	111.83
20	1	601	CHL	C1C-CHC-C4B	2.79	126.06	116.07
25	O	204	BCR	C36-C18-C17	-2.79	118.29	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	815	CLA	CHB-C4A-NA	2.79	128.43	124.40
21	A	814	CLA	CHB-C4A-NA	2.79	128.43	124.40
20	1	606	CHL	C1C-CHC-C4B	2.79	126.05	116.07
25	A	852	BCR	C12-C13-C14	2.79	123.39	119.01
21	z	612	CLA	O2D-CGD-O1D	-2.79	118.42	123.85
21	z	614	CLA	CHB-C4A-NA	2.78	128.42	124.40
21	A	826	CLA	C3B-C4B-NB	-2.78	108.04	110.53
25	I	101	BCR	C19-C18-C17	2.78	123.39	119.01
21	2	613	CLA	O2D-CGD-O1D	-2.78	118.43	123.85
21	y	610	CLA	O2D-CGD-O1D	-2.78	118.43	123.85
21	z	604	CLA	C3B-C4B-NB	-2.78	108.05	110.53
21	z	603	CLA	C3B-C4B-NB	-2.78	108.05	110.53
21	x	610	CLA	C3B-C4B-NB	-2.78	108.05	110.53
25	B	846	BCR	C10-C11-C12	2.78	131.24	123.20
21	1	608	CLA	O2D-CGD-O1D	-2.78	118.45	123.85
31	z	618	NEX	C12-C13-C14	2.78	123.37	119.01
20	z	601	CHL	O2A-CGA-CBA	2.77	120.30	111.83
25	F	304	BCR	C37-C22-C21	-2.77	118.32	122.82
25	3	614	BCR	C12-C13-C14	2.77	123.37	119.01
25	B	844	BCR	C19-C18-C17	2.77	123.37	119.01
21	A	805	CLA	C3B-C4B-NB	-2.77	108.06	110.53
21	L	303	CLA	O2D-CGD-CBD	2.77	116.07	111.23
21	3	611	CLA	CAA-C2A-C3A	-2.77	109.88	116.23
25	3	614	BCR	C35-C13-C14	-2.77	118.33	122.82
25	3	614	BCR	C36-C18-C17	-2.77	118.33	122.82
21	3	604	CLA	O2D-CGD-O1D	-2.77	117.81	124.08
21	O	202	CLA	O2D-CGD-O1D	-2.76	117.81	124.08
21	A	816	CLA	C3B-C4B-NB	-2.76	108.06	110.53
21	A	845	CLA	CHB-C4A-NA	2.76	128.39	124.40
21	A	804	CLA	O2D-CGD-CBD	2.76	116.05	111.23
31	y	618	NEX	C15-C35-C34	2.76	129.16	123.52
20	x	607	CHL	O1D-CGD-CBD	-2.76	120.54	124.72
21	B	825	CLA	CHB-C4A-NA	2.75	128.37	124.40
20	y	601	CHL	C1B-CHB-C4A	-2.75	119.55	121.32
21	x	613	CLA	O2D-CGD-O1D	-2.75	118.50	123.85
21	3	607	CLA	CHB-C4A-NA	2.75	128.37	124.40
21	A	820	CLA	CMB-C2B-C1B	-2.75	121.24	125.42
21	y	611	CLA	C3B-C4B-NB	-2.75	108.08	110.53
31	z	618	NEX	C20-C13-C14	-2.75	118.37	122.82
21	B	835	CLA	O2D-CGD-O1D	-2.75	118.50	123.85
21	3	610	CLA	CAA-C2A-C3A	-2.75	109.94	116.23
21	B	837	CLA	C3B-C4B-NB	-2.74	108.08	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	2	606	CHL	CBC-CAC-C3C	-2.74	108.95	112.87
21	1	607	CLA	CHB-C4A-NA	2.74	128.36	124.40
21	B	831	CLA	C3B-C4B-NB	-2.74	108.08	110.53
25	I	101	BCR	C36-C18-C17	-2.74	118.38	122.82
24	3	613	LUT	C11-C10-C9	2.74	131.12	127.28
20	4	606	CHL	O1D-CGD-CBD	-2.74	120.57	124.72
20	x	601	CHL	C1-C2-C3	-2.74	121.71	126.20
21	3	612	CLA	CHB-C4A-NA	2.74	128.35	124.40
20	1	601	CHL	O2D-CGD-CBD	2.74	120.61	113.90
20	2	605	CHL	CAC-C3C-C4C	2.74	129.66	124.73
23	1	615	LHG	O8-C23-C24	2.73	120.17	111.83
21	2	608	CLA	O2D-CGD-O1D	-2.73	118.53	123.85
24	x	615	LUT	C12-C13-C14	2.73	123.31	119.01
21	A	832	CLA	CHB-C4A-NA	2.73	128.34	124.40
25	K	202	BCR	C30-C25-C24	2.73	123.06	115.65
21	B	834	CLA	CHB-C4A-NA	2.73	128.34	124.40
21	2	611	CLA	CHB-C4A-NA	2.73	128.34	124.40
24	2	619	LUT	C11-C10-C9	2.73	131.10	127.28
20	x	607	CHL	O2A-CGA-CBA	2.73	120.15	111.83
21	A	843	CLA	C3B-C4B-NB	-2.73	108.10	110.53
24	y	616	LUT	C20-C13-C14	-2.73	118.40	122.82
20	x	605	CHL	C4-C3-C5	2.72	119.96	115.23
20	z	606	CHL	C1C-CHC-C4B	2.72	125.81	116.07
25	B	849	BCR	C36-C18-C17	-2.72	118.41	122.82
21	B	836	CLA	C1-C2-C3	-2.72	122.36	126.76
21	A	809	CLA	CHB-C4A-NA	2.72	128.33	124.40
21	B	820	CLA	C3B-C4B-NB	-2.72	108.11	110.53
21	B	818	CLA	C3B-C4B-NB	-2.72	108.11	110.53
24	2	616	LUT	C27-C28-C29	-2.72	120.48	126.32
20	z	601	CHL	C1C-CHC-C4B	2.72	125.78	116.07
21	B	821	CLA	O2D-CGD-O1D	-2.72	118.56	123.85
20	x	608	CHL	O1D-CGD-CBD	-2.71	120.61	124.72
20	y	605	CHL	CBC-CAC-C3C	-2.71	108.99	112.87
20	1	606	CHL	CMA-C3A-C4A	-2.71	108.76	114.61
24	z	615	LUT	C32-C33-C34	2.71	123.28	119.01
21	1	602	CLA	C3B-C4B-NB	-2.71	108.11	110.53
25	J	102	BCR	C15-C16-C17	2.71	129.07	123.52
21	A	844	CLA	O2A-CGA-O1A	-2.71	116.84	123.63
31	x	618	NEX	C20-C13-C14	-2.71	118.42	122.82
21	B	803	CLA	C3B-C4B-NB	-2.71	108.11	110.53
25	K	202	BCR	C24-C23-C22	-2.71	122.23	126.23
24	z	616	LUT	C39-C29-C30	-2.71	118.43	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	K	205	BCR	C16-C15-C14	2.71	129.06	123.52
20	2	615	CHL	O1D-CGD-CBD	-2.71	120.62	124.72
21	B	813	CLA	C3B-C4B-NB	-2.71	108.11	110.53
24	z	616	LUT	C35-C15-C14	2.71	129.06	123.52
21	B	815	CLA	C3B-C4B-NB	-2.71	108.11	110.53
21	A	841	CLA	C3B-C4B-NB	-2.70	108.12	110.53
20	1	606	CHL	O2D-CGD-CBD	2.70	120.53	113.90
20	4	607	CHL	O1D-CGD-CBD	-2.70	120.63	124.72
25	G	204	BCR	C35-C13-C14	-2.70	118.44	122.82
21	B	837	CLA	CHB-C4A-NA	2.70	128.30	124.40
20	2	606	CHL	CMA-C3A-C4A	-2.70	108.79	114.61
21	B	817	CLA	CHB-C4A-NA	2.70	128.29	124.40
21	F	301	CLA	O2D-CGD-O1D	-2.70	118.60	123.85
21	B	809	CLA	CHB-C4A-NA	2.70	128.29	124.40
21	H	201	CLA	C3B-C4B-NB	-2.69	108.12	110.53
21	B	841	CLA	C3B-C4B-NB	-2.69	108.13	110.53
20	z	609	CHL	C4-C3-C5	2.69	119.90	115.23
21	K	204	CLA	O2D-CGD-O1D	-2.69	118.61	123.85
21	B	841	CLA	O2D-CGD-CBD	2.69	115.93	111.23
21	1	604	CLA	CHB-C4A-NA	2.69	128.28	124.40
21	B	816	CLA	O2A-CGA-O1A	-2.69	116.91	123.63
20	y	607	CHL	C1-C2-C3	-2.69	121.80	126.20
21	2	611	CLA	C3B-C4B-NB	-2.69	108.13	110.53
21	A	829	CLA	CHB-C4A-NA	2.68	128.27	124.40
21	B	830	CLA	CHB-C4A-NA	2.68	128.27	124.40
24	2	616	LUT	C26-C27-C28	2.68	128.75	124.58
25	F	304	BCR	C37-C22-C23	2.68	122.18	118.09
21	B	816	CLA	CHB-C4A-NA	2.68	128.26	124.40
21	z	610	CLA	CHB-C4A-NA	2.68	128.26	124.40
21	K	201	CLA	CAA-C2A-C3A	-2.68	110.09	116.23
24	x	615	LUT	C20-C13-C14	-2.68	118.48	122.82
20	y	609	CHL	CBC-CAC-C3C	-2.68	109.04	112.87
22	y	617	XAT	C39-C29-C30	-2.67	118.48	122.82
21	B	818	CLA	CMB-C2B-C1B	-2.67	121.35	125.42
21	1	610	CLA	O2D-CGD-O1D	-2.67	118.02	124.08
21	A	835	CLA	CHB-C4A-NA	2.67	128.25	124.40
21	K	201	CLA	CHB-C4A-NA	2.67	128.25	124.40
25	O	204	BCR	C35-C13-C14	-2.67	118.49	122.82
25	B	801	BCR	C36-C18-C17	-2.67	118.49	122.82
21	B	806	CLA	C3B-C4B-NB	-2.67	108.15	110.53
21	B	819	CLA	O2D-CGD-CBD	2.67	115.89	111.23
25	A	853	BCR	C36-C18-C17	-2.67	118.50	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	y	615	LUT	C12-C13-C14	2.67	123.20	119.01
25	A	851	BCR	C11-C12-C13	2.67	133.67	126.36
25	A	848	BCR	C35-C13-C14	-2.67	118.50	122.82
22	z	617	XAT	C15-C35-C34	2.67	128.97	123.52
20	2	605	CHL	O1D-CGD-CBD	-2.66	120.68	124.72
21	B	805	CLA	CHB-C4A-NA	2.66	128.24	124.40
24	3	613	LUT	C27-C28-C29	-2.66	120.59	126.32
21	2	603	CLA	CHB-C4A-NA	2.66	128.24	124.40
21	z	613	CLA	O2D-CGD-O1D	-2.66	118.67	123.85
21	B	824	CLA	C3B-C4B-NB	-2.66	108.15	110.53
21	2	609	CLA	CHB-C4A-NA	2.66	128.24	124.40
20	y	607	CHL	C4-C3-C5	2.66	119.85	115.23
21	4	602	CLA	C3B-C4B-NB	-2.66	108.16	110.53
21	z	603	CLA	C1-C2-C3	-2.66	121.85	126.20
21	A	842	CLA	CHB-C4A-NA	2.66	128.23	124.40
21	B	814	CLA	CHB-C4A-NA	2.66	128.23	124.40
21	x	610	CLA	CHB-C4A-NA	2.65	128.23	124.40
21	3	605	CLA	CHB-C4A-NA	2.65	128.23	124.40
25	J	102	BCR	C36-C18-C17	-2.65	118.52	122.82
21	2	608	CLA	CHB-C4A-NA	2.65	128.23	124.40
21	A	819	CLA	CHB-C4A-NA	2.65	128.23	124.40
25	B	801	BCR	C19-C18-C17	2.65	123.18	119.01
25	B	846	BCR	C15-C16-C17	2.65	128.94	123.52
21	x	604	CLA	CHB-C4A-NA	2.65	128.22	124.40
22	4	617	XAT	C6-C7-C8	-2.65	120.39	125.99
21	3	609	CLA	CHB-C4A-NA	2.65	128.22	124.40
20	x	609	CHL	OMC-CMC-C2C	-2.65	120.52	125.12
21	A	836	CLA	CHB-C4A-NA	2.65	128.22	124.40
21	4	614	CLA	CHB-C4A-NA	2.64	128.22	124.40
21	A	833	CLA	C3B-C4B-NB	-2.64	108.17	110.53
24	z	616	LUT	C20-C13-C14	-2.64	118.53	122.82
24	y	616	LUT	C12-C13-C14	2.64	123.16	119.01
21	A	805	CLA	CHB-C4A-NA	2.64	128.21	124.40
21	B	814	CLA	C3B-C4B-NB	-2.64	108.17	110.53
22	x	617	XAT	C37-C21-C22	-2.64	104.33	108.97
21	B	802	CLA	CHB-C4A-NA	2.64	128.21	124.40
25	4	618	BCR	C36-C18-C17	-2.64	118.54	122.82
21	3	601	CLA	CHB-C4A-NA	2.64	128.21	124.40
24	z	615	LUT	C10-C11-C12	2.64	130.84	123.20
21	B	804	CLA	C3B-C4B-NB	-2.63	108.18	110.53
21	y	613	CLA	CHB-C4A-NA	2.63	128.20	124.40
21	z	602	CLA	CHB-C4A-NA	2.63	128.20	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	829	CLA	C3B-C4B-NB	-2.63	108.18	110.53
25	B	845	BCR	C24-C23-C22	-2.63	122.34	126.23
22	x	617	XAT	C19-C9-C10	-2.63	118.56	122.82
24	4	616	LUT	C19-C9-C8	2.63	122.10	118.09
21	A	841	CLA	CHB-C4A-NA	2.63	128.19	124.40
24	3	613	LUT	C30-C31-C32	2.62	130.81	123.20
21	B	804	CLA	CHB-C4A-NA	2.62	128.19	124.40
22	2	617	XAT	C20-C13-C14	-2.62	118.57	122.82
25	K	205	BCR	C8-C9-C10	2.62	123.13	119.01
21	3	608	CLA	CHB-C4A-NA	2.62	128.18	124.40
24	3	613	LUT	C19-C9-C10	-2.62	118.57	122.82
21	G	202	CLA	CHB-C4A-NA	2.62	128.18	124.40
21	y	604	CLA	CHB-C4A-NA	2.62	128.18	124.40
22	z	617	XAT	C40-C33-C34	-2.62	118.57	122.82
24	x	616	LUT	C20-C13-C14	-2.62	118.57	122.82
21	A	813	CLA	CHB-C4A-NA	2.62	128.18	124.40
24	x	615	LUT	C40-C33-C34	-2.62	118.58	122.82
21	4	602	CLA	CHB-C4A-NA	2.62	128.18	124.40
20	y	601	CHL	C1C-CHC-C4B	2.62	125.43	116.07
21	H	201	CLA	O2D-CGD-O1D	-2.62	118.76	123.85
20	z	608	CHL	O1D-CGD-CBD	-2.61	120.76	124.72
24	2	619	LUT	C28-C29-C30	2.61	123.12	119.01
20	y	606	CHL	O1D-CGD-CBD	-2.61	120.76	124.72
25	A	848	BCR	C12-C13-C14	2.61	123.12	119.01
21	x	602	CLA	C3B-C4B-NB	-2.61	108.20	110.53
25	B	843	BCR	C1-C6-C7	2.61	122.73	115.65
21	B	815	CLA	CHB-C4A-NA	2.61	128.17	124.40
21	4	601	CLA	CHB-C4A-NA	2.61	128.16	124.40
21	A	834	CLA	CHB-C4A-NA	2.61	128.16	124.40
25	O	205	BCR	C35-C13-C14	-2.61	118.59	122.82
25	A	849	BCR	C37-C22-C21	-2.61	118.59	122.82
21	A	843	CLA	CHB-C4A-NA	2.61	128.16	124.40
21	1	613	CLA	O2D-CGD-O1D	-2.61	118.17	124.08
21	B	807	CLA	CHB-C4A-NA	2.61	128.16	124.40
21	A	822	CLA	CHB-C4A-NA	2.61	128.16	124.40
25	I	101	BCR	C35-C13-C14	-2.61	118.59	122.82
20	y	607	CHL	O2A-CGA-CBA	2.60	119.78	111.83
21	B	828	CLA	CHB-C4A-NA	2.60	128.16	124.40
21	B	810	CLA	CHB-C4A-NA	2.60	128.16	124.40
21	A	823	CLA	CHB-C4A-NA	2.60	128.15	124.40
21	G	203	CLA	C3B-C4B-NB	-2.60	108.21	110.53
21	A	821	CLA	CHB-C4A-NA	2.60	128.15	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	4	609	CLA	CHB-C4A-NA	2.60	128.15	124.40
21	J	101	CLA	CHB-C4A-NA	2.60	128.15	124.40
21	3	610	CLA	CHB-C4A-NA	2.60	128.15	124.40
21	4	612	CLA	C3B-C4B-NB	-2.60	108.21	110.53
20	x	606	CHL	O1D-CGD-CBD	-2.60	120.79	124.72
21	G	201	CLA	CHB-C4A-NA	2.60	128.15	124.40
21	z	613	CLA	C3B-C4B-NB	-2.59	108.21	110.53
21	B	806	CLA	CHB-C4A-NA	2.59	128.14	124.40
25	4	618	BCR	C19-C18-C17	2.59	123.08	119.01
21	A	816	CLA	CHB-C4A-NA	2.59	128.14	124.40
21	B	819	CLA	CHB-C4A-NA	2.59	128.14	124.40
20	z	609	CHL	CMB-C2B-C3B	2.59	129.85	124.68
25	A	853	BCR	C19-C18-C17	2.59	123.08	119.01
21	A	809	CLA	C1-C2-C3	-2.59	121.96	126.20
21	1	608	CLA	CHB-C4A-NA	2.59	128.13	124.40
24	3	613	LUT	C20-C13-C14	-2.59	118.63	122.82
24	z	615	LUT	C40-C33-C34	-2.59	118.63	122.82
20	y	601	CHL	O1D-CGD-CBD	-2.59	120.80	124.72
24	4	616	LUT	C40-C33-C34	-2.59	118.63	122.82
25	B	848	BCR	C36-C18-C17	-2.59	118.63	122.82
21	B	838	CLA	CHB-C4A-NA	2.58	128.13	124.40
21	4	611	CLA	CHB-C4A-NA	2.58	128.13	124.40
21	3	610	CLA	O2D-CGD-O1D	-2.58	118.22	124.08
21	1	602	CLA	CHB-C4A-NA	2.58	128.13	124.40
21	x	614	CLA	CHB-C4A-NA	2.58	128.13	124.40
20	1	601	CHL	C4-C3-C5	2.58	119.71	115.23
21	3	604	CLA	CHB-C4A-NA	2.58	128.12	124.40
25	B	843	BCR	C16-C17-C18	2.58	130.90	127.28
21	B	809	CLA	C3B-C4B-NB	-2.58	108.23	110.53
21	3	601	CLA	C3B-C4B-NB	-2.58	108.23	110.53
21	4	608	CLA	CHB-C4A-NA	2.58	128.12	124.40
21	3	608	CLA	CMC-C2C-C1C	2.58	129.06	125.03
21	A	842	CLA	C3B-C4B-NB	-2.57	108.23	110.53
22	z	617	XAT	C28-C29-C30	2.57	123.06	119.01
25	O	205	BCR	C36-C18-C17	-2.57	118.66	122.82
21	4	612	CLA	CHB-C4A-NA	2.57	128.10	124.40
24	z	616	LUT	C12-C13-C14	2.56	123.04	119.01
21	A	828	CLA	CHB-C4A-NA	2.56	128.10	124.40
21	3	602	CLA	CHB-C4A-NA	2.56	128.10	124.40
21	A	818	CLA	CHB-C4A-NA	2.56	128.10	124.40
21	B	835	CLA	CHB-C4A-NA	2.56	128.10	124.40
21	x	602	CLA	CHB-C4A-NA	2.56	128.10	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	x	608	CHL	OMC-CMC-C2C	-2.56	120.67	125.12
21	4	609	CLA	O2D-CGD-O1D	-2.56	118.86	123.85
25	G	204	BCR	C23-C22-C21	2.56	123.04	119.01
25	O	204	BCR	C12-C13-C14	2.56	123.04	119.01
29	A	855	PQN	C11-C3-C2	-2.56	120.50	124.89
20	z	608	CHL	OMC-CMC-C2C	-2.56	120.67	125.12
20	y	606	CHL	CMD-C2D-C3D	-2.56	119.57	124.68
21	B	836	CLA	O2A-CGA-O1A	-2.56	117.23	123.63
21	A	827	CLA	CHB-C4A-NA	2.56	128.09	124.40
21	B	818	CLA	CHB-C4A-NA	2.56	128.09	124.40
21	A	833	CLA	CHB-C4A-NA	2.56	128.09	124.40
21	A	839	CLA	CHB-C4A-NA	2.56	128.09	124.40
20	y	601	CHL	CMB-C2B-C3B	2.55	129.79	124.68
21	A	841	CLA	O2A-CGA-O1A	-2.55	117.24	123.63
21	3	603	CLA	O2D-CGD-O1D	-2.55	118.88	123.85
20	y	609	CHL	CMB-C2B-C3B	2.55	129.79	124.68
21	4	611	CLA	O2D-CGD-O1D	-2.55	118.29	124.08
25	B	849	BCR	C7-C8-C9	2.55	130.01	126.23
21	L	303	CLA	CHB-C4A-NA	2.55	128.08	124.40
22	4	617	XAT	C35-C34-C33	2.55	130.86	127.28
21	2	602	CLA	CHB-C4A-NA	2.55	128.08	124.40
21	A	837	CLA	CHB-C4A-NA	2.55	128.08	124.40
22	1	614	XAT	C38-C25-C24	2.55	117.11	114.24
21	y	610	CLA	CHB-C4A-NA	2.55	128.08	124.40
24	x	616	LUT	C12-C13-C14	2.55	123.02	119.01
22	x	617	XAT	C40-C33-C34	-2.55	118.69	122.82
21	x	613	CLA	CHB-C4A-NA	2.55	128.08	124.40
21	A	820	CLA	CHB-C4A-NA	2.55	128.08	124.40
25	J	102	BCR	C10-C11-C12	2.55	130.58	123.20
27	A	801	CL0	C4-C3-C5	2.55	119.65	115.23
25	A	849	BCR	C35-C13-C14	-2.55	118.69	122.82
21	B	840	CLA	CHB-C4A-NA	2.54	128.07	124.40
21	A	835	CLA	C1-C2-C3	-2.54	122.03	126.20
24	4	616	LUT	C20-C13-C14	-2.54	118.70	122.82
21	B	826	CLA	CHB-C4A-NA	2.54	128.06	124.40
21	1	613	CLA	CHB-C4A-NA	2.54	128.06	124.40
21	G	201	CLA	O2D-CGD-CBD	2.54	115.67	111.23
20	2	606	CHL	O1D-CGD-CBD	-2.54	120.88	124.72
21	4	610	CLA	CHB-C4A-NA	2.54	128.06	124.40
25	I	101	BCR	C12-C13-C14	2.54	123.00	119.01
20	x	608	CHL	CMB-C2B-C3B	2.54	129.75	124.68
21	A	811	CLA	CHB-C4A-NA	2.53	128.06	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	x	603	CLA	CHB-C4A-NA	2.53	128.06	124.40
20	z	605	CHL	CBC-CAC-C3C	-2.53	109.24	112.87
21	B	808	CLA	CHB-C4A-NA	2.53	128.06	124.40
21	1	610	CLA	CHB-C4A-NA	2.53	128.06	124.40
21	K	203	CLA	CHB-C4A-NA	2.53	128.06	124.40
21	x	604	CLA	O2A-CGA-O1A	-2.53	117.29	123.63
21	A	826	CLA	CHB-C4A-NA	2.53	128.05	124.40
21	B	824	CLA	CHB-C4A-NA	2.53	128.05	124.40
21	y	612	CLA	CHB-C4A-NA	2.53	128.05	124.40
21	z	610	CLA	O2D-CGD-O1D	-2.53	118.92	123.85
21	A	831	CLA	CHB-C4A-NA	2.53	128.05	124.40
21	4	603	CLA	CHB-C4A-NA	2.53	128.05	124.40
20	x	609	CHL	CMB-C2B-C3B	2.53	129.73	124.68
22	z	617	XAT	C17-C1-C2	-2.53	104.53	108.97
21	A	824	CLA	CHB-C4A-NA	2.53	128.04	124.40
21	F	303	CLA	CHB-C4A-NA	2.52	128.04	124.40
21	z	604	CLA	CMB-C2B-C1B	-2.52	121.58	125.42
21	A	811	CLA	C3B-C4B-NB	-2.52	108.28	110.53
24	x	615	LUT	C32-C33-C34	2.52	122.97	119.01
20	2	607	CHL	OMC-CMC-C2C	-2.52	120.74	125.12
21	y	602	CLA	CHB-C4A-NA	2.52	128.04	124.40
31	x	618	NEX	C28-C29-C30	2.52	122.97	119.01
20	x	606	CHL	OMC-CMC-C2C	-2.52	120.74	125.12
21	B	841	CLA	CHB-C4A-NA	2.52	128.04	124.40
21	B	813	CLA	CHB-C4A-NA	2.52	128.04	124.40
21	A	844	CLA	CHB-C4A-NA	2.52	128.03	124.40
21	A	820	CLA	C3B-C4B-NB	-2.52	108.28	110.53
21	3	611	CLA	CHB-C4A-NA	2.52	128.03	124.40
20	y	605	CHL	CMB-C2B-C3B	2.52	129.71	124.68
21	z	611	CLA	CHB-C4A-NA	2.52	128.03	124.40
24	3	613	LUT	C32-C33-C34	2.51	122.96	119.01
25	L	306	BCR	C1-C6-C5	-2.51	119.20	122.64
20	z	601	CHL	C4-C3-C5	2.51	119.59	115.23
21	y	611	CLA	CHB-C4A-NA	2.51	128.03	124.40
20	2	607	CHL	C5-C3-C4	2.51	120.37	114.59
21	2	612	CLA	CHB-C4A-NA	2.51	128.02	124.40
21	B	812	CLA	CHB-C4A-NA	2.51	128.02	124.40
20	x	609	CHL	CBC-CAC-C3C	-2.51	109.28	112.87
21	B	820	CLA	CHB-C4A-NA	2.51	128.02	124.40
20	x	607	CHL	CBC-CAC-C3C	-2.51	109.28	112.87
21	z	604	CLA	CHB-C4A-NA	2.51	128.02	124.40
20	z	606	CHL	C1B-CHB-C4A	2.51	122.94	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	831	CLA	CHB-C4A-NA	2.51	128.02	124.40
21	A	835	CLA	O2D-CGD-CBD	2.50	115.61	111.23
21	z	612	CLA	CHB-C4A-NA	2.50	128.01	124.40
21	B	829	CLA	CHB-C4A-NA	2.50	128.01	124.40
21	A	813	CLA	O2D-CGD-CBD	2.50	115.61	111.23
21	z	603	CLA	CHB-C4A-NA	2.50	128.01	124.40
31	y	618	NEX	C19-C9-C10	-2.50	118.76	122.82
21	z	613	CLA	CHB-C4A-NA	2.50	128.01	124.40
24	x	615	LUT	C8-C9-C10	2.50	122.94	119.01
21	A	809	CLA	C3B-C4B-NB	-2.50	108.30	110.53
25	O	205	BCR	C12-C13-C14	2.50	122.94	119.01
21	A	838	CLA	CHB-C4A-NA	2.50	128.01	124.40
25	K	202	BCR	C30-C25-C26	-2.50	119.22	122.64
21	L	304	CLA	CHB-C4A-NA	2.50	128.00	124.40
20	z	607	CHL	O2D-CGD-O1D	-2.50	118.99	123.85
25	G	204	BCR	C12-C13-C14	2.49	122.93	119.01
21	A	808	CLA	CHB-C4A-NA	2.49	127.99	124.40
21	O	203	CLA	CHB-C4A-NA	2.49	127.99	124.40
21	2	603	CLA	O2D-CGD-O1D	-2.49	118.43	124.08
21	O	203	CLA	C3B-C4B-NB	-2.49	107.75	110.33
20	y	607	CHL	CMB-C2B-C3B	2.49	129.65	124.68
25	B	849	BCR	C34-C9-C8	2.49	121.89	118.09
21	B	803	CLA	O2A-CGA-O1A	-2.49	117.41	123.63
20	2	607	CHL	O1D-CGD-CBD	-2.49	120.95	124.72
20	x	605	CHL	O1D-CGD-CBD	-2.49	120.95	124.72
21	2	613	CLA	CHB-C4A-NA	2.49	127.99	124.40
21	A	830	CLA	C3B-C4B-NB	-2.49	108.31	110.53
21	O	203	CLA	CAB-C3B-C2B	2.49	130.14	123.53
21	L	302	CLA	CHB-C4A-NA	2.49	127.99	124.40
21	B	808	CLA	C1-C2-C3	-2.49	122.12	126.20
20	2	615	CHL	OMC-CMC-C2C	-2.49	120.80	125.12
21	x	611	CLA	CHB-C4A-NA	2.49	127.99	124.40
25	B	843	BCR	C10-C11-C12	2.48	130.40	123.20
21	A	825	CLA	CHB-C4A-NA	2.48	127.98	124.40
25	B	848	BCR	C35-C13-C14	-2.48	118.79	122.82
21	B	810	CLA	CAA-C2A-C3A	-2.48	106.29	113.00
21	1	612	CLA	CHB-C4A-NA	2.48	127.98	124.40
21	3	609	CLA	O2D-CGD-O1D	-2.48	118.45	124.08
21	4	604	CLA	CHB-C4A-NA	2.48	127.98	124.40
22	1	614	XAT	O24-C25-C26	-2.48	56.96	58.93
21	A	802	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
20	x	601	CHL	C1C-CHC-C4B	2.48	124.94	116.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2	610	CLA	CAB-C3B-C2B	2.48	130.12	123.53
20	y	601	CHL	CBC-CAC-C3C	-2.48	109.33	112.87
21	B	839	CLA	CHB-C4A-NA	2.48	127.97	124.40
25	A	853	BCR	C34-C9-C10	-2.48	118.80	122.82
25	B	843	BCR	C36-C18-C17	-2.48	118.80	122.82
21	A	829	CLA	O2D-CGD-O1D	-2.48	119.03	123.85
25	J	102	BCR	C19-C18-C17	2.48	122.90	119.01
25	J	102	BCR	C1-C6-C5	-2.48	119.25	122.64
21	A	812	CLA	CHB-C4A-NA	2.48	127.97	124.40
22	2	617	XAT	C40-C33-C34	-2.48	118.81	122.82
20	x	609	CHL	CMA-C3A-C4A	-2.47	109.28	114.61
22	y	617	XAT	C7-C8-C9	2.47	129.37	125.53
20	z	609	CHL	O2D-CGD-O1D	-2.47	119.03	123.85
21	B	833	CLA	CHB-C4A-NA	2.47	127.97	124.40
20	4	605	CHL	O2D-CGD-CBD	2.47	119.97	113.90
21	G	203	CLA	CHB-C4A-NA	2.47	127.97	124.40
21	1	605	CLA	CHB-C4A-NA	2.47	127.97	124.40
21	A	810	CLA	CAA-CBA-CGA	-2.47	106.19	113.21
21	x	612	CLA	CHB-C4A-NA	2.47	127.97	124.40
21	O	201	CLA	CHB-C4A-NA	2.47	127.96	124.40
21	1	603	CLA	CHB-C4A-NA	2.47	127.96	124.40
21	A	806	CLA	CHB-C4A-NA	2.47	127.96	124.40
21	y	603	CLA	CHB-C4A-NA	2.47	127.96	124.40
22	z	617	XAT	C32-C33-C34	2.46	122.89	119.01
21	y	614	CLA	C1-C2-C3	-2.46	122.16	126.20
20	4	607	CHL	CBC-CAC-C3C	-2.46	109.35	112.87
21	A	840	CLA	CHB-C4A-NA	2.46	127.95	124.40
21	2	609	CLA	O2D-CGD-O1D	-2.46	119.06	123.85
21	B	822	CLA	CAA-CBA-CGA	-2.46	106.23	113.21
21	H	201	CLA	CHB-C4A-NA	2.46	127.95	124.40
21	B	832	CLA	CHB-C4A-NA	2.46	127.94	124.40
20	y	608	CHL	CMB-C2B-C3B	2.46	129.59	124.68
25	B	846	BCR	C36-C18-C17	-2.46	118.84	122.82
25	B	848	BCR	C19-C18-C17	2.45	122.87	119.01
21	y	603	CLA	O2D-CGD-CBD	2.45	115.52	111.23
21	A	803	CLA	CHB-C4A-NA	2.45	127.94	124.40
25	A	848	BCR	C30-C25-C24	2.45	122.30	115.65
21	B	825	CLA	O2D-CGD-CBD	2.45	115.52	111.23
21	K	204	CLA	CHB-C4A-NA	2.45	127.94	124.40
20	z	606	CHL	OMC-CMC-C2C	-2.45	120.86	125.12
30	B	850	DGD	O1G-C1A-C2A	2.45	119.31	111.83
21	A	810	CLA	CHB-C4A-NA	2.45	127.94	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	821	CLA	O2A-CGA-O1A	-2.45	117.50	123.63
21	3	603	CLA	CHB-C4A-NA	2.45	127.93	124.40
21	B	822	CLA	C1-C2-C3	-2.45	122.19	126.20
25	A	851	BCR	C30-C25-C24	2.45	122.29	115.65
20	y	609	CHL	C1C-CHC-C4B	2.45	124.82	116.07
20	z	605	CHL	CMB-C2B-C3B	2.45	129.57	124.68
21	A	810	CLA	O2A-CGA-O1A	-2.45	117.51	123.63
25	A	849	BCR	C36-C18-C17	-2.44	118.86	122.82
21	1	609	CLA	CMB-C2B-C3B	2.44	132.30	126.55
25	L	306	BCR	C24-C23-C22	2.44	129.85	126.23
20	4	605	CHL	CMA-C3A-C4A	-2.44	109.35	114.61
21	A	827	CLA	O2A-CGA-O1A	-2.44	117.52	123.63
29	B	842	PQN	C11-C3-C2	-2.44	120.71	124.89
20	z	606	CHL	CMB-C2B-C3B	2.44	129.55	124.68
21	3	608	CLA	CMB-C2B-C1B	-2.44	121.71	125.42
21	4	603	CLA	CAB-C3B-C2B	2.44	130.00	123.53
21	A	817	CLA	CHB-C4A-NA	2.44	127.91	124.40
25	A	848	BCR	C30-C25-C26	-2.43	119.31	122.64
24	4	616	LUT	C32-C33-C34	2.43	122.83	119.01
21	B	813	CLA	CMB-C2B-C1B	-2.43	121.72	125.42
21	1	613	CLA	CAB-C3B-C2B	2.43	130.00	123.53
21	4	612	CLA	CMB-C2B-C1B	-2.43	121.72	125.42
27	A	801	CL0	CHA-CBD-CAD	-2.43	100.36	103.79
20	2	615	CHL	O2D-CGD-O1D	-2.43	119.12	123.85
25	A	851	BCR	C30-C25-C26	-2.43	119.32	122.64
25	J	102	BCR	C1-C6-C7	2.43	122.23	115.65
21	B	811	CLA	CAB-C3B-C2B	2.42	129.97	123.53
25	B	847	BCR	C36-C18-C17	-2.42	118.89	122.82
21	1	610	CLA	C3B-C4B-NB	-2.42	107.81	110.33
21	3	601	CLA	CMB-C2B-C1B	-2.42	121.73	125.42
20	x	607	CHL	CMB-C2B-C3B	2.42	129.52	124.68
20	2	601	CHL	CMA-C3A-C4A	-2.42	109.40	114.61
20	y	607	CHL	CMA-C3A-C4A	-2.42	109.40	114.61
27	A	801	CL0	CMA-C3A-C4A	-2.42	109.40	114.61
25	K	205	BCR	C1-C6-C7	2.42	122.21	115.65
24	2	619	LUT	C15-C14-C13	2.42	130.67	127.28
21	A	825	CLA	C1-C2-C3	-2.42	122.24	126.20
22	x	617	XAT	C35-C34-C33	2.42	130.67	127.28
21	B	802	CLA	C1-C2-C3	-2.42	122.24	126.20
20	z	601	CHL	CMB-C2B-C3B	2.42	129.51	124.68
25	B	843	BCR	C12-C13-C14	2.41	122.81	119.01
21	A	845	CLA	O2D-CGD-CBD	2.41	115.45	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	z	609	CHL	O1D-CGD-CBD	-2.41	121.06	124.72
21	A	831	CLA	C3B-C4B-NB	-2.41	108.38	110.53
21	4	602	CLA	CMB-C2B-C1B	-2.41	121.75	125.42
21	A	815	CLA	CAA-C2A-C3A	-2.41	106.48	113.00
21	B	821	CLA	CHB-C4A-NA	2.41	127.88	124.40
21	B	805	CLA	O2A-CGA-O1A	-2.41	117.60	123.63
25	K	205	BCR	C30-C25-C24	2.41	122.18	115.65
22	4	617	XAT	C31-C30-C29	2.41	130.66	127.28
21	2	610	CLA	C3B-C4B-NB	-2.41	107.83	110.33
21	3	605	CLA	C3B-C4B-NB	-2.41	107.83	110.33
20	z	609	CHL	C1C-CHC-C4B	2.41	124.68	116.07
22	2	617	XAT	C8-C9-C10	2.41	122.79	119.01
21	A	807	CLA	CHB-C4A-NA	2.41	127.87	124.40
21	y	604	CLA	C3B-C4B-NB	-2.41	108.38	110.53
20	y	607	CHL	CBC-CAC-C3C	-2.40	109.43	112.87
20	z	606	CHL	CBC-CAC-C3C	-2.40	109.43	112.87
21	1	613	CLA	C3B-C4B-NB	-2.40	107.83	110.33
25	O	205	BCR	C19-C18-C17	2.40	122.79	119.01
21	4	614	CLA	O2D-CGD-CBD	2.40	115.43	111.23
31	y	618	NEX	C10-C11-C12	2.40	130.16	123.20
25	L	305	BCR	C30-C25-C24	2.40	122.15	115.65
21	4	612	CLA	C1-C2-C3	-2.40	122.27	126.20
21	1	611	CLA	CHB-C4A-NA	2.40	127.86	124.40
20	4	607	CHL	OMC-CMC-C2C	-2.40	120.96	125.12
21	B	836	CLA	CHB-C4A-NA	2.39	127.86	124.40
31	z	618	NEX	C19-C9-C10	-2.39	118.94	122.82
21	O	203	CLA	CMB-C2B-C3B	2.39	129.89	123.53
22	4	617	XAT	C37-C21-C36	-2.39	103.89	107.37
22	4	617	XAT	C11-C12-C13	2.39	132.92	126.36
20	2	601	CHL	CBC-CAC-C3C	-2.39	109.46	112.87
20	1	601	CHL	OMC-CMC-C2C	-2.39	120.98	125.12
23	1	615	LHG	C5-O7-C7	-2.38	112.09	117.80
25	K	205	BCR	C1-C6-C5	-2.38	119.38	122.64
24	x	615	LUT	C27-C28-C29	2.38	131.45	126.32
22	4	617	XAT	C37-C21-C22	-2.38	104.78	108.97
21	F	301	CLA	CHB-C4A-NA	2.38	127.83	124.40
21	1	607	CLA	O2D-CGD-O1D	-2.38	118.69	124.08
21	A	814	CLA	O2A-CGA-O1A	-2.38	117.68	123.63
24	z	616	LUT	C8-C9-C10	2.38	122.75	119.01
20	4	606	CHL	CBC-CAC-C3C	-2.38	109.47	112.87
25	J	102	BCR	C23-C22-C21	2.38	122.75	119.01
25	B	843	BCR	C35-C13-C14	-2.38	118.97	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	y	609	CHL	O2A-CGA-CBA	2.37	119.08	111.83
22	2	617	XAT	C27-C28-C29	-2.37	121.85	125.53
21	A	831	CLA	CMB-C2B-C1B	-2.37	121.81	125.42
24	y	616	LUT	C8-C9-C10	2.37	122.74	119.01
20	z	607	CHL	OMC-CMC-C2C	-2.37	121.00	125.12
21	1	613	CLA	CMB-C2B-C3B	2.37	129.83	123.53
25	L	305	BCR	C21-C20-C19	2.37	130.06	123.20
25	B	848	BCR	C34-C9-C8	2.36	121.70	118.09
20	2	601	CHL	OMC-CMC-C2C	-2.36	121.02	125.12
26	4	620	LMG	O1-C7-C8	-2.36	105.07	110.82
25	O	205	BCR	C37-C22-C23	2.36	121.70	118.09
21	B	825	CLA	O2A-CGA-O1A	-2.36	117.72	123.63
25	F	304	BCR	C19-C18-C17	2.36	122.72	119.01
25	A	850	BCR	C1-C6-C7	2.36	122.06	115.65
25	L	306	BCR	C1-C6-C7	2.36	122.05	115.65
20	z	606	CHL	O1D-CGD-CBD	-2.36	121.14	124.72
21	K	206	CLA	CHB-C4A-NA	2.36	127.80	124.40
21	L	302	CLA	O2D-CGD-CBD	2.36	115.35	111.23
21	2	604	CLA	O2D-CGD-O1D	-2.36	119.26	123.85
21	4	609	CLA	C1-C2-C3	-2.36	122.34	126.20
21	B	833	CLA	CAA-C2A-C1A	-2.35	104.26	111.97
21	A	830	CLA	CMB-C2B-C1B	-2.35	121.83	125.42
21	4	609	CLA	O2A-CGA-O1A	-2.35	117.74	123.63
24	z	616	LUT	C26-C27-C28	2.35	128.24	124.58
21	4	603	CLA	C3B-C4B-NB	-2.35	107.89	110.33
20	y	607	CHL	O1D-CGD-CBD	-2.35	121.16	124.72
20	y	606	CHL	CMB-C2B-C3B	2.35	129.37	124.68
20	2	605	CHL	O2D-CGD-O1D	-2.34	119.28	123.85
20	2	615	CHL	CBC-CAC-C3C	-2.34	109.52	112.87
25	A	851	BCR	C15-C14-C13	2.34	130.57	127.28
21	x	603	CLA	O2D-CGD-CBD	2.34	115.33	111.23
22	1	614	XAT	O4-C5-C6	-2.34	57.07	58.93
20	2	601	CHL	CMB-C2B-C3B	2.34	129.36	124.68
25	B	801	BCR	C23-C22-C21	2.34	122.69	119.01
21	1	602	CLA	O2A-CGA-O1A	-2.34	117.78	123.63
21	F	302	CLA	O2D-CGD-O1D	-2.34	119.29	123.85
20	x	601	CHL	O1D-CGD-CBD	-2.34	121.18	124.72
20	1	601	CHL	CMA-C3A-C4A	-2.34	109.58	114.61
25	B	848	BCR	C30-C25-C24	2.34	121.98	115.65
21	z	613	CLA	CMB-C2B-C1B	-2.33	121.87	125.42
21	A	834	CLA	O2A-CGA-O1A	-2.33	117.79	123.63
21	4	603	CLA	CMB-C2B-C3B	2.33	129.73	123.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	3	605	CLA	CMB-C2B-C3B	2.33	129.73	123.53
21	B	821	CLA	CAA-CBA-CGA	-2.33	106.59	113.21
21	A	824	CLA	O2D-CGD-CBD	2.33	115.30	111.23
21	A	839	CLA	O2A-CGA-O1A	-2.33	117.81	123.63
27	A	801	CL0	CBC-CAC-C3C	-2.33	109.54	112.87
20	2	607	CHL	CMA-C3A-C4A	-2.33	109.60	114.61
21	B	833	CLA	O2D-CGD-CBD	2.33	115.30	111.23
22	x	617	XAT	C20-C13-C14	-2.33	119.05	122.82
27	A	801	CL0	C6-C5-C3	-2.33	107.80	113.47
20	1	601	CHL	O2D-CGD-O1D	-2.33	118.81	124.08
20	4	615	CHL	CMB-C2B-C3B	2.32	129.56	124.69
20	x	607	CHL	CMA-C3A-C4A	-2.32	109.60	114.61
25	L	305	BCR	C1-C6-C7	2.32	121.95	115.65
25	4	618	BCR	C37-C22-C23	2.32	121.64	118.09
21	1	608	CLA	CAB-C3B-C2B	2.32	129.70	123.53
20	z	608	CHL	CBC-CAC-C3C	-2.32	109.55	112.87
20	2	615	CHL	CMB-C2B-C3B	2.32	129.32	124.68
21	B	803	CLA	C1-C2-C3	-2.32	122.39	126.20
20	y	607	CHL	O2D-CGD-O1D	-2.32	119.33	123.85
21	1	610	CLA	CAB-C3B-C2B	2.32	129.70	123.53
25	B	845	BCR	C30-C25-C26	-2.32	119.47	122.64
21	B	837	CLA	O2A-CGA-O1A	-2.32	117.83	123.63
20	1	606	CHL	CMB-C2B-C3B	2.32	129.32	124.68
25	K	205	BCR	C12-C13-C14	2.32	122.66	119.01
21	A	829	CLA	O2A-CGA-O1A	-2.32	117.83	123.63
20	y	607	CHL	OMC-CMC-C2C	-2.31	121.10	125.12
20	y	609	CHL	O2D-CGD-O1D	-2.31	119.34	123.85
20	4	606	CHL	CMB-C2B-C3B	2.31	129.53	124.69
21	B	823	CLA	CHB-C4A-NA	2.31	127.73	124.40
24	y	615	LUT	C20-C13-C14	-2.31	119.07	122.82
20	x	606	CHL	CMB-C2B-C3B	2.31	129.30	124.68
21	B	839	CLA	O2A-CGA-O1A	-2.31	117.86	123.63
21	B	818	CLA	CMB-C2B-C3B	2.31	131.98	126.55
20	2	606	CHL	O2D-CGD-O1D	-2.31	119.36	123.85
20	2	606	CHL	CAC-C3C-C4C	2.30	129.94	124.03
21	B	804	CLA	O2D-CGD-CBD	2.30	115.25	111.23
21	B	829	CLA	CMB-C2B-C1B	-2.30	121.92	125.42
25	A	853	BCR	C30-C25-C24	2.30	121.89	115.65
20	x	601	CHL	C4-C3-C5	2.30	119.21	115.23
21	4	604	CLA	C3B-C4B-NB	-2.30	107.95	110.33
21	4	604	CLA	CAB-C3B-C2B	2.29	129.63	123.53
21	B	825	CLA	CMB-C2B-C1B	-2.29	121.92	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	841	CLA	CMB-C2B-C1B	-2.29	121.93	125.42
21	3	602	CLA	O2A-CGA-O1A	-2.29	117.90	123.63
21	B	810	CLA	C1-C2-C3	-2.29	122.45	126.20
20	1	601	CHL	CAC-C3C-C4C	2.29	129.91	124.03
21	B	827	CLA	O2D-CGD-CBD	2.29	115.22	111.23
21	z	614	CLA	O2D-CGD-CBD	2.28	115.22	111.23
20	x	605	CHL	CMB-C2B-C3B	2.28	129.25	124.68
25	3	614	BCR	C30-C25-C24	2.28	121.84	115.65
21	y	603	CLA	O2A-CGA-O1A	-2.28	117.92	123.63
25	B	843	BCR	C1-C6-C5	-2.28	119.52	122.64
20	z	605	CHL	CMA-C3A-C4A	-2.28	109.69	114.61
21	B	821	CLA	CMB-C2B-C1B	-2.28	121.95	125.42
21	B	808	CLA	O1D-CGD-CBD	2.28	129.01	124.52
25	B	846	BCR	C19-C18-C17	2.28	122.59	119.01
20	z	607	CHL	CBC-CAC-C3C	-2.28	109.61	112.87
21	B	813	CLA	O2A-CGA-O1A	-2.28	117.93	123.63
25	A	848	BCR	C23-C22-C21	2.28	122.59	119.01
21	A	833	CLA	CMB-C2B-C1B	-2.28	121.95	125.42
20	z	608	CHL	CAC-C3C-C4C	2.28	129.88	124.03
21	x	613	CLA	C1-C2-C3	-2.27	122.47	126.20
21	O	202	CLA	CHB-C4A-NA	2.27	127.68	124.40
21	B	809	CLA	CMB-C2B-C1B	-2.27	121.96	125.42
24	4	616	LUT	C39-C29-C28	2.27	121.56	118.09
21	A	820	CLA	CMB-C2B-C3B	2.27	131.89	126.55
20	4	606	CHL	O2D-CGD-O1D	-2.27	119.43	123.85
21	K	206	CLA	O2D-CGD-O1D	-2.27	118.93	124.08
21	1	610	CLA	CMB-C2B-C3B	2.27	129.56	123.53
25	3	614	BCR	C37-C22-C23	2.27	121.55	118.09
24	3	613	LUT	C40-C33-C34	-2.27	119.14	122.82
20	x	609	CHL	CAC-C3C-C4C	2.26	129.85	124.03
20	x	608	CHL	O2D-CGD-O1D	-2.26	119.44	123.85
21	1	608	CLA	CMA-C3A-C2A	-2.26	111.05	116.23
21	A	809	CLA	CMB-C2B-C1B	-2.26	121.98	125.42
21	B	813	CLA	C1-C2-C3	-2.26	122.49	126.20
20	x	607	CHL	O2D-CGD-O1D	-2.26	119.45	123.85
20	x	601	CHL	CMB-C2B-C3B	2.26	129.20	124.68
21	2	610	CLA	CMB-C2B-C3B	2.26	129.53	123.53
21	3	612	CLA	CAA-C2A-C3A	-2.26	111.06	116.23
21	3	609	CLA	C1-C2-C3	-2.26	122.50	126.20
21	B	818	CLA	C1-C2-C3	-2.25	122.50	126.20
20	4	605	CHL	CAC-C3C-C4C	2.25	128.79	124.73
20	z	608	CHL	O2D-CGD-O1D	-2.25	119.46	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	804	CLA	C1-C2-C3	-2.25	122.50	126.20
21	1	613	CLA	CMA-C3A-C2A	-2.25	111.06	116.23
21	G	203	CLA	CMB-C2B-C1B	-2.25	121.99	125.42
25	O	204	BCR	C23-C22-C21	2.25	122.55	119.01
22	1	614	XAT	C35-C15-C14	-2.25	118.91	123.52
22	2	617	XAT	C16-C1-C2	-2.25	105.01	108.97
25	B	847	BCR	C15-C16-C17	2.25	128.13	123.52
25	K	205	BCR	C30-C25-C26	-2.25	119.56	122.64
21	A	820	CLA	O2D-CGD-CBD	2.25	115.17	111.23
27	A	801	CL0	CMC-C2C-C1C	2.25	128.78	124.73
21	3	603	CLA	CMB-C2B-C1B	-2.25	122.00	125.42
21	B	814	CLA	CMB-C2B-C1B	-2.25	122.00	125.42
21	1	604	CLA	O2A-CGA-O1A	-2.25	118.01	123.63
21	1	608	CLA	C3B-C4B-NB	-2.25	108.00	110.33
21	4	602	CLA	O2A-CGA-O1A	-2.25	118.01	123.63
25	A	850	BCR	C1-C6-C5	-2.24	119.57	122.64
24	4	616	LUT	C12-C13-C14	2.24	122.54	119.01
21	B	807	CLA	O2D-CGD-CBD	2.24	115.15	111.23
20	y	607	CHL	CAC-C3C-C4C	2.24	129.80	124.03
25	A	853	BCR	C29-C30-C25	2.24	113.70	110.44
21	y	604	CLA	CMB-C2B-C1B	-2.24	122.01	125.42
21	A	830	CLA	CAC-C3C-C4C	2.24	127.70	124.79
21	3	605	CLA	CAB-C3B-C2B	2.24	129.48	123.53
21	K	203	CLA	CAA-CBA-CGA	-2.24	106.52	112.49
21	B	811	CLA	CMB-C2B-C3B	2.24	129.48	123.53
21	A	825	CLA	O2A-CGA-O1A	-2.24	118.03	123.63
21	A	810	CLA	O2D-CGD-CBD	2.24	115.14	111.23
25	A	849	BCR	C12-C13-C14	2.24	122.53	119.01
25	B	849	BCR	C23-C22-C21	2.24	122.53	119.01
21	1	608	CLA	CMB-C2B-C3B	2.24	129.48	123.53
20	y	605	CHL	O1D-CGD-CBD	-2.24	121.33	124.72
21	3	608	CLA	CMB-C2B-C3B	2.24	131.81	126.55
24	2	619	LUT	C20-C13-C14	-2.23	119.20	122.82
25	B	848	BCR	C37-C22-C23	2.23	121.50	118.09
20	2	606	CHL	OMC-CMC-C2C	-2.23	121.24	125.12
20	2	605	CHL	CMA-C3A-C4A	-2.23	109.80	114.61
21	A	835	CLA	O2A-CGA-O1A	-2.23	118.06	123.63
21	z	604	CLA	CMB-C2B-C3B	2.23	131.79	126.55
21	B	806	CLA	C1-C2-C3	-2.23	122.55	126.20
20	z	608	CHL	CMB-C2B-C3B	2.23	129.13	124.68
21	B	838	CLA	O2A-CGA-O1A	-2.23	118.06	123.63
22	x	617	XAT	O4-C5-C4	-2.23	111.41	113.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	831	CLA	CMB-C2B-C1B	-2.23	122.03	125.42
21	z	602	CLA	O2A-CGA-O1A	-2.23	118.06	123.63
20	4	607	CHL	CMA-C3A-C4A	-2.22	109.82	114.61
21	B	828	CLA	O2A-CGA-O1A	-2.22	118.06	123.63
21	B	817	CLA	O2A-CGA-O1A	-2.22	118.07	123.63
20	z	605	CHL	CAA-C2A-C3A	-2.22	111.13	116.23
20	z	606	CHL	CAC-C3C-C4C	2.22	129.74	124.03
21	3	609	CLA	O2A-CGA-O1A	-2.22	118.07	123.63
21	B	804	CLA	CMA-C3A-C2A	-2.22	111.14	116.23
21	A	805	CLA	C1-C2-C3	-2.22	122.56	126.20
21	B	837	CLA	O2D-CGD-CBD	2.22	115.11	111.23
20	z	607	CHL	CMB-C2B-C3B	2.22	129.11	124.68
21	B	818	CLA	O2D-CGD-CBD	2.22	115.10	111.23
21	B	829	CLA	O2A-CGA-O1A	-2.21	118.09	123.63
20	4	615	CHL	OMC-CMC-C2C	-2.21	121.28	125.12
21	2	611	CLA	O2D-CGD-O1D	-2.21	119.55	123.85
21	A	842	CLA	CMB-C2B-C3B	2.21	131.74	126.55
20	z	601	CHL	O2D-CGD-O1D	-2.21	119.55	123.85
21	B	814	CLA	O2D-CGD-CBD	2.21	115.09	111.23
25	B	843	BCR	C19-C18-C17	2.20	122.48	119.01
20	1	601	CHL	CMB-C2B-C3B	2.20	129.09	124.68
20	x	608	CHL	CBC-CAC-C3C	-2.20	109.72	112.87
25	B	846	BCR	C1-C6-C7	2.20	121.63	115.65
21	B	824	CLA	CMB-C2B-C1B	-2.20	122.06	125.42
21	4	614	CLA	C1-C2-C3	-2.20	123.20	126.76
25	L	305	BCR	C8-C9-C10	2.20	122.47	119.01
20	4	615	CHL	O2D-CGD-CBD	2.20	119.30	113.90
25	A	852	BCR	C30-C25-C24	2.20	121.62	115.65
21	K	203	CLA	O2D-CGD-CBD	2.20	115.08	111.23
25	A	851	BCR	C34-C9-C8	-2.20	114.73	118.09
20	2	607	CHL	CBC-CAC-C3C	-2.20	109.72	112.87
21	y	602	CLA	O2A-CGA-O1A	-2.20	118.13	123.63
21	A	802	CLA	CAA-C2A-C3A	-2.20	107.06	113.00
20	2	607	CHL	CMB-C2B-C3B	2.20	129.07	124.68
21	3	608	CLA	C2A-C3A-C4A	2.20	104.17	101.59
21	x	604	CLA	C1-C2-C3	-2.20	122.60	126.20
21	B	802	CLA	CGD-CBD-CAD	2.19	117.95	110.85
21	3	608	CLA	O2D-CGD-O1D	-2.19	119.58	123.85
20	1	606	CHL	O2D-CGD-O1D	-2.19	119.10	124.08
21	x	603	CLA	O2A-CGA-O1A	-2.19	118.14	123.63
21	2	612	CLA	CMB-C2B-C1B	-2.19	122.08	125.42
20	x	608	CHL	C4C-CHD-C1D	2.19	123.90	116.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	847	BCR	C37-C22-C23	2.19	121.43	118.09
21	B	802	CLA	CMA-C3A-C2A	-2.19	105.52	113.98
21	1	604	CLA	CAA-C2A-C3A	-2.19	107.09	113.00
21	A	804	CLA	O2A-CGA-O1A	-2.19	118.16	123.63
21	B	819	CLA	O2A-CGA-O1A	-2.19	118.16	123.63
21	y	610	CLA	C1-C2-C3	-2.19	122.62	126.20
24	y	616	LUT	C30-C31-C32	2.18	129.53	123.20
21	A	808	CLA	C1-C2-C3	-2.18	123.23	126.76
25	B	848	BCR	C12-C13-C14	2.18	122.44	119.01
21	B	820	CLA	C1-C2-C3	-2.18	123.23	126.76
20	x	601	CHL	C1B-CHB-C4A	-2.18	119.92	121.32
20	1	606	CHL	CMA-C3A-C2A	-2.18	111.23	116.23
20	y	606	CHL	CBC-CAC-C3C	-2.18	109.75	112.87
20	4	615	CHL	C4C-CHD-C1D	2.18	123.87	116.07
21	A	828	CLA	O2A-CGA-O1A	-2.18	118.18	123.63
21	4	604	CLA	CMB-C2B-C3B	2.18	129.32	123.53
25	A	849	BCR	C15-C14-C13	2.18	130.33	127.28
21	A	822	CLA	O2A-CGA-O1A	-2.18	118.18	123.63
21	B	807	CLA	O2A-CGA-O1A	-2.18	118.19	123.63
21	B	820	CLA	O2A-CGA-O1A	-2.17	118.19	123.63
21	B	817	CLA	C1-C2-C3	-2.17	122.64	126.20
21	x	602	CLA	O2D-CGD-CBD	2.17	115.03	111.23
21	A	809	CLA	O2A-CGA-O1A	-2.17	118.19	123.63
21	B	834	CLA	O2A-CGA-O1A	-2.17	118.19	123.63
31	x	618	NEX	C27-C28-C29	-2.17	122.16	125.53
21	1	609	CLA	C2B-C1B-NB	-2.17	108.07	110.33
20	z	607	CHL	CAC-C3C-C4C	2.17	129.61	124.03
20	2	601	CHL	O2A-CGA-CBA	2.17	120.34	112.14
27	A	801	CL0	CMB-C2B-C3B	2.17	129.02	124.68
20	3	606	CHL	CMB-C2B-C3B	2.17	129.02	124.68
22	1	614	XAT	C18-C5-C4	2.17	116.68	114.24
21	B	806	CLA	O2A-CGA-O1A	-2.17	118.21	123.63
21	3	611	CLA	CMA-C3A-C2A	-2.17	111.26	116.23
20	z	605	CHL	C4C-CHD-C1D	2.17	123.82	116.07
20	z	606	CHL	C4C-CHD-C1D	2.17	123.81	116.07
24	2	619	LUT	C30-C31-C32	2.16	129.47	123.20
24	x	615	LUT	C31-C30-C29	2.16	130.31	127.28
21	1	603	CLA	O2A-CGA-O1A	-2.16	118.23	123.63
21	4	609	CLA	CAA-C2A-C3A	-2.16	107.17	113.00
21	A	842	CLA	O2A-CGA-O1A	-2.16	118.24	123.63
21	2	602	CLA	O2A-CGA-O1A	-2.16	118.24	123.63
25	3	614	BCR	C30-C25-C26	-2.15	119.69	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	L	305	BCR	C30-C25-C26	-2.15	119.69	122.64
22	x	617	XAT	C32-C33-C34	2.15	122.40	119.01
21	A	842	CLA	CBA-CAA-C2A	2.15	120.20	113.79
25	A	853	BCR	C30-C25-C26	-2.15	119.69	122.64
20	z	607	CHL	C4D-ND-C1D	-2.15	103.59	105.22
20	2	601	CHL	C4C-CHD-C1D	2.15	123.77	116.07
20	y	601	CHL	O2D-CGD-O1D	-2.15	119.66	123.85
21	A	824	CLA	CMA-C3A-C2A	-2.15	111.30	116.23
21	A	808	CLA	O2A-CGA-O1A	-2.15	118.25	123.63
25	F	304	BCR	C36-C18-C17	-2.15	119.33	122.82
21	A	838	CLA	O2A-CGA-O1A	-2.15	118.25	123.63
20	z	601	CHL	CMA-C3A-C4A	-2.15	109.98	114.61
21	B	838	CLA	O2D-CGD-CBD	2.15	114.98	111.23
21	A	806	CLA	O2A-CGA-O1A	-2.15	118.26	123.63
25	L	305	BCR	C1-C6-C5	-2.14	119.71	122.64
24	3	613	LUT	C12-C13-C14	2.14	122.38	119.01
21	B	826	CLA	CMB-C2B-C1B	-2.14	122.16	125.42
22	z	617	XAT	C8-C9-C10	2.14	122.38	119.01
20	4	605	CHL	CMB-C2B-C3B	2.14	128.96	124.68
21	B	826	CLA	O2A-CGA-O1A	-2.14	118.27	123.63
21	B	818	CLA	O2A-CGA-O1A	-2.14	118.28	123.63
20	2	605	CHL	C4C-CHD-C1D	2.14	123.72	116.07
22	4	617	XAT	C16-C1-C2	2.14	112.72	108.97
20	3	606	CHL	C4C-CHD-C1D	2.14	123.71	116.07
21	A	845	CLA	O2A-CGA-O1A	-2.14	118.28	123.63
20	z	609	CHL	C4C-CHD-C1D	2.14	123.71	116.07
21	A	832	CLA	C1-C2-C3	-2.13	123.31	126.76
21	L	303	CLA	O2A-CGA-O1A	-2.13	118.29	123.63
21	J	101	CLA	O2A-CGA-O1A	-2.13	118.29	123.63
20	x	601	CHL	CED-O2D-CGD	2.13	120.76	115.92
20	x	609	CHL	C4C-CHD-C1D	2.13	123.70	116.07
25	I	101	BCR	C34-C9-C8	2.13	121.34	118.09
20	4	605	CHL	C4C-CHD-C1D	2.13	123.69	116.07
20	z	608	CHL	C4D-ND-C1D	-2.13	103.60	105.22
21	x	603	CLA	CMB-C2B-C1B	-2.13	122.17	125.42
21	1	609	CLA	CMC-C2C-C3C	2.13	131.18	126.75
22	2	617	XAT	C36-C21-C22	-2.13	105.23	108.97
21	x	603	CLA	C1-C2-C3	-2.13	122.71	126.20
20	x	601	CHL	C4C-CHD-C1D	2.13	123.68	116.07
20	4	607	CHL	CAC-C3C-C4C	2.13	129.50	124.03
21	y	604	CLA	O2D-CGD-CBD	2.13	114.95	111.23
20	1	601	CHL	C4C-CHD-C1D	2.12	123.67	116.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	y	606	CHL	C4C-CHD-C1D	2.12	123.67	116.07
21	B	809	CLA	O2A-CGA-O1A	-2.12	118.31	123.63
20	z	607	CHL	C4C-CHD-C1D	2.12	123.67	116.07
21	4	602	CLA	CMB-C2B-C3B	2.12	131.54	126.55
20	3	606	CHL	O1D-CGD-CBD	-2.12	121.51	124.72
21	2	613	CLA	O1D-CGD-CBD	2.12	128.70	124.52
20	4	605	CHL	OMC-CMC-C2C	-2.12	121.44	125.12
20	z	608	CHL	C4C-CHD-C1D	2.12	123.65	116.07
25	L	301	BCR	C8-C9-C10	2.12	122.34	119.01
20	1	601	CHL	CBC-CAC-C3C	-2.12	109.84	112.87
20	2	607	CHL	CAC-C3C-C4C	2.12	129.47	124.03
21	x	610	CLA	CMB-C2B-C1B	-2.12	122.20	125.42
20	4	606	CHL	CAC-C3C-C4C	2.11	129.47	124.03
21	1	609	CLA	O2D-CGD-O1D	-2.11	119.73	123.85
20	y	605	CHL	C4C-CHD-C1D	2.11	123.63	116.07
20	x	607	CHL	CAC-C3C-C4C	2.11	129.47	124.03
25	A	852	BCR	C24-C23-C22	2.11	129.36	126.23
24	1	616	LUT	C10-C11-C12	2.11	129.32	123.20
20	4	605	CHL	C4D-ND-C1D	-2.11	103.62	105.22
20	2	606	CHL	CMB-C2B-C3B	2.11	128.90	124.68
25	A	850	BCR	C12-C13-C14	2.11	122.33	119.01
20	4	607	CHL	O2D-CGD-O1D	-2.11	119.74	123.85
21	A	841	CLA	O1D-CGD-CBD	2.11	128.67	124.52
20	x	606	CHL	C4C-CHD-C1D	2.11	123.61	116.07
21	4	612	CLA	CMB-C2B-C3B	2.11	131.50	126.55
20	y	607	CHL	C4C-CHD-C1D	2.11	123.60	116.07
21	B	824	CLA	O2A-CGA-O1A	-2.10	118.37	123.63
21	A	828	CLA	CMB-C2B-C1B	-2.10	122.22	125.42
24	2	616	LUT	C32-C33-C34	2.10	122.32	119.01
20	4	605	CHL	O2D-CGD-O1D	-2.10	119.31	124.08
20	z	605	CHL	CMA-C3A-C2A	-2.10	111.41	116.23
21	A	834	CLA	C1-C2-C3	-2.10	122.75	126.20
21	B	806	CLA	O1D-CGD-CBD	2.10	128.66	124.52
25	B	801	BCR	C1-C6-C5	-2.10	119.77	122.64
21	z	602	CLA	CAA-C2A-C3A	-2.10	107.33	113.00
21	A	818	CLA	O2A-CGA-O1A	-2.10	118.38	123.63
21	A	809	CLA	CMB-C2B-C3B	2.10	131.49	126.55
21	A	806	CLA	CMB-C2B-C1B	-2.10	122.23	125.42
21	F	301	CLA	O2A-CGA-O1A	-2.10	118.38	123.63
20	2	605	CHL	CMB-C2B-C3B	2.10	128.87	124.68
21	B	827	CLA	O2A-CGA-O1A	-2.10	118.39	123.63
21	B	825	CLA	CMB-C2B-C3B	2.10	131.48	126.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	844	BCR	C20-C19-C18	2.10	132.11	126.36
27	A	801	CL0	O2A-CGA-O1A	-2.10	118.39	123.63
21	2	608	CLA	O1D-CGD-CBD	2.10	128.65	124.52
20	x	606	CHL	CAC-C3C-C4C	2.09	129.41	124.03
20	2	606	CHL	C4C-CHD-C1D	2.09	123.56	116.07
20	4	605	CHL	CMD-C2D-C3D	-2.09	120.50	124.68
20	2	607	CHL	C4C-CHD-C1D	2.09	123.56	116.07
20	x	605	CHL	C4D-ND-C1D	-2.09	103.63	105.22
21	B	814	CLA	O2A-CGA-O1A	-2.09	118.39	123.63
21	A	802	CLA	CMB-C2B-C1B	-2.09	122.23	125.42
21	A	811	CLA	CMB-C2B-C1B	-2.09	122.23	125.42
25	B	848	BCR	C29-C30-C25	2.09	113.48	110.44
21	O	201	CLA	O2A-CGA-O1A	-2.09	118.40	123.63
21	B	840	CLA	C1-C2-C3	-2.09	122.77	126.20
20	1	606	CHL	CBC-CAC-C3C	-2.09	109.88	112.87
20	x	608	CHL	CAC-C3C-C4C	2.09	129.40	124.03
21	x	610	CLA	O2D-CGD-O1D	-2.09	119.78	123.85
20	y	608	CHL	CAC-C3C-C4C	2.09	129.40	124.03
21	A	845	CLA	C1-C2-C3	-2.09	123.38	126.76
20	4	606	CHL	C4C-CHD-C1D	2.09	123.54	116.07
21	y	604	CLA	O2A-CGA-O1A	-2.09	118.41	123.63
24	2	616	LUT	C40-C33-C34	-2.09	119.44	122.82
20	y	608	CHL	C4C-CHD-C1D	2.08	123.53	116.07
21	A	839	CLA	CMB-C2B-C1B	-2.08	122.25	125.42
20	x	609	CHL	O2A-CGA-CBA	2.08	120.58	114.00
21	4	612	CLA	O2A-CGA-O1A	-2.08	118.42	123.63
20	z	601	CHL	CAC-C3C-C4C	2.08	129.39	124.03
21	L	303	CLA	CAA-C2A-C3A	-2.08	107.37	113.00
20	z	609	CHL	CMD-C2D-C3D	-2.08	120.52	124.68
21	A	837	CLA	O2D-CGD-CBD	2.08	114.87	111.23
21	F	302	CLA	O2A-CGA-O1A	-2.08	118.43	123.63
24	3	613	LUT	C7-C8-C9	-2.08	123.16	126.23
21	A	811	CLA	O2A-CGA-O1A	-2.08	118.43	123.63
25	B	845	BCR	C37-C22-C21	-2.08	119.45	122.82
21	B	825	CLA	CAA-C2A-C3A	-2.08	107.39	113.00
20	y	605	CHL	OMC-CMC-C2C	-2.08	121.52	125.12
20	x	606	CHL	O2D-CGD-O1D	-2.08	119.81	123.85
20	3	606	CHL	O2D-CGD-O1D	-2.07	119.81	123.85
21	K	203	CLA	O2A-CGA-O1A	-2.07	118.00	123.33
21	A	832	CLA	O2A-CGA-O1A	-2.07	118.44	123.63
21	x	604	CLA	CMB-C2B-C1B	-2.07	122.27	125.42
21	A	805	CLA	O2A-CGA-O1A	-2.07	118.45	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	818	CLA	C1-C2-C3	-2.07	122.80	126.20
22	y	617	XAT	O24-C26-C27	-2.07	110.94	116.88
21	B	805	CLA	O2D-CGD-CBD	2.07	114.85	111.23
20	2	605	CHL	C3C-C4C-NC	2.07	116.32	110.46
21	x	613	CLA	O2A-CGA-O1A	-2.07	118.45	123.63
21	y	610	CLA	CMB-C2B-C1B	-2.07	122.27	125.42
21	A	830	CLA	C2A-C1A-CHA	2.07	127.46	123.87
25	A	853	BCR	C23-C22-C21	2.07	122.26	119.01
21	A	813	CLA	O2A-CGA-O1A	-2.07	118.45	123.63
20	4	607	CHL	C4C-CHD-C1D	2.07	123.47	116.07
20	x	605	CHL	C4C-CHD-C1D	2.06	123.46	116.07
30	B	850	DGD	O2G-C1B-O1B	-2.06	118.88	123.70
21	B	810	CLA	O2A-CGA-O1A	-2.06	118.47	123.63
21	2	612	CLA	O2A-CGA-O1A	-2.06	118.47	123.63
21	B	819	CLA	C1-C2-C3	-2.06	122.82	126.20
21	z	613	CLA	CMB-C2B-C3B	2.06	131.40	126.55
21	3	601	CLA	CMB-C2B-C3B	2.06	131.40	126.55
21	3	607	CLA	CAA-C2A-C3A	-2.06	107.43	113.00
20	3	606	CHL	O2A-CGA-CBA	2.06	120.51	114.00
21	A	840	CLA	O2A-CGA-O1A	-2.06	118.48	123.63
21	B	840	CLA	O2A-CGA-O1A	-2.06	118.48	123.63
21	B	813	CLA	CMB-C2B-C3B	2.06	131.39	126.55
21	B	815	CLA	O1D-CGD-CBD	2.06	128.57	124.52
21	B	820	CLA	O2D-CGD-CBD	2.06	114.82	111.23
21	A	807	CLA	O2A-CGA-O1A	-2.05	118.49	123.63
21	A	805	CLA	CMB-C2B-C1B	-2.05	122.29	125.42
21	z	604	CLA	CAA-C2A-C3A	-2.05	107.45	113.00
21	A	838	CLA	C1-C2-C3	-2.05	122.84	126.20
21	A	826	CLA	O1D-CGD-CBD	2.05	128.56	124.52
20	4	605	CHL	C3D-C4D-ND	2.05	116.23	112.94
21	A	819	CLA	O2A-CGA-O1A	-2.05	118.50	123.63
22	x	617	XAT	C12-C13-C14	2.05	122.23	119.01
21	A	842	CLA	O2D-CGD-CBD	2.05	114.81	111.23
21	A	841	CLA	CMB-C2B-C3B	2.05	131.37	126.55
25	B	845	BCR	C8-C9-C10	2.05	122.23	119.01
20	z	607	CHL	CMA-C3A-C4A	-2.05	110.20	114.61
21	A	827	CLA	O2D-CGD-CBD	2.05	114.81	111.23
20	2	607	CHL	O2D-CGD-O1D	-2.05	119.87	123.85
24	3	613	LUT	C1-C6-C7	2.04	121.20	115.65
21	F	302	CLA	C2A-C1A-CHA	2.04	127.42	123.87
20	y	605	CHL	O2D-CGD-O1D	-2.04	119.87	123.85
25	B	846	BCR	C16-C17-C18	2.04	130.14	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	y	605	CHL	CED-O2D-CGD	2.04	120.55	115.92
20	x	606	CHL	CBC-CAC-C3C	-2.04	109.95	112.87
20	2	601	CHL	CAC-C3C-C4C	2.04	129.28	124.03
21	B	815	CLA	CMB-C2B-C1B	-2.04	122.31	125.42
21	B	809	CLA	C1-C2-C3	-2.04	122.85	126.20
21	y	604	CLA	C1-C2-C3	-2.04	122.85	126.20
21	A	802	CLA	C7-C6-C5	-2.04	107.82	113.26
21	A	802	CLA	CMB-C2B-C3B	2.04	131.35	126.55
20	z	608	CHL	O2A-CGA-O1A	-2.04	118.53	123.63
21	O	203	CLA	O2D-CGD-O1D	-2.04	119.45	124.08
21	x	610	CLA	C1-C2-C3	-2.04	122.86	126.20
21	z	612	CLA	O2A-CGA-O1A	-2.04	118.10	123.33
21	A	839	CLA	C1-C2-C3	-2.03	122.86	126.20
22	1	614	XAT	C30-C31-C32	-2.03	117.30	123.20
25	B	846	BCR	C1-C6-C5	-2.03	119.86	122.64
21	B	820	CLA	CMB-C2B-C1B	-2.03	122.32	125.42
21	2	611	CLA	CMB-C2B-C1B	-2.03	122.32	125.42
20	1	606	CHL	CAC-C3C-C4C	2.03	129.25	124.03
25	B	845	BCR	C38-C26-C25	2.03	126.70	124.48
25	G	204	BCR	C34-C9-C8	2.03	121.19	118.09
21	A	806	CLA	C1-C2-C3	-2.03	122.87	126.20
25	3	614	BCR	C8-C9-C10	2.03	122.20	119.01
20	x	606	CHL	C4D-ND-C1D	-2.03	103.68	105.22
20	z	605	CHL	OMC-CMC-C2C	-2.03	121.60	125.12
21	2	602	CLA	CMB-C2B-C1B	-2.03	122.33	125.42
21	B	811	CLA	C3B-C4B-NB	-2.03	108.22	110.33
21	B	829	CLA	O2D-CGD-CBD	2.02	114.77	111.23
20	4	606	CHL	CMA-C3A-C4A	-2.02	110.25	114.61
21	A	830	CLA	CMB-C2B-C3B	2.02	131.31	126.55
21	2	603	CLA	CHC-C4B-NB	2.02	127.08	124.05
25	A	849	BCR	C27-C26-C25	-2.02	119.97	122.70
21	z	604	CLA	O2A-CGA-O1A	-2.02	118.58	123.63
21	B	830	CLA	O1D-CGD-CBD	2.02	128.50	124.52
21	4	614	CLA	O2A-CGA-O1A	-2.02	118.58	123.63
21	z	602	CLA	O2D-CGD-CBD	2.02	114.76	111.23
25	G	204	BCR	C1-C6-C7	2.02	121.12	115.65
21	B	825	CLA	C1-C2-C3	-2.02	122.89	126.20
21	A	833	CLA	O2A-CGA-O1A	-2.02	118.58	123.63
21	2	612	CLA	CMB-C2B-C3B	2.02	131.29	126.55
21	y	602	CLA	O2D-CGD-CBD	2.02	114.75	111.23
21	A	838	CLA	O2D-CGD-CBD	2.02	114.75	111.23
22	4	617	XAT	C30-C31-C32	-2.02	117.36	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2	603	CLA	CHB-C1B-NB	2.02	127.07	124.05
21	2	603	CLA	CBB-CAB-C3B	-2.01	117.46	127.53
21	B	802	CLA	O2A-CGA-O1A	-2.01	118.60	123.63
20	y	606	CHL	C4D-ND-C1D	-2.01	103.69	105.22
20	y	608	CHL	CMA-C3A-C4A	-2.01	110.28	114.61
21	3	603	CLA	CHA-C1A-NA	-2.01	121.84	126.39
21	A	830	CLA	O2A-CGA-O1A	-2.01	118.60	123.63
21	A	833	CLA	CMB-C2B-C3B	2.01	131.27	126.55
25	A	852	BCR	C34-C9-C8	2.01	121.16	118.09
20	x	601	CHL	CAC-C3C-C4C	2.01	129.19	124.03
20	1	606	CHL	C4C-CHD-C1D	2.00	123.24	116.07
21	B	841	CLA	O2A-CGA-O1A	-2.00	118.61	123.63
21	y	614	CLA	C2A-C1A-CHA	2.00	127.34	123.87
20	y	608	CHL	O2A-CGA-O1A	-2.00	118.62	123.63
25	4	618	BCR	C1-C6-C7	2.00	121.08	115.65
20	y	601	CHL	CAC-C3C-C4C	2.00	129.18	124.03
21	z	603	CLA	O2A-CGA-O1A	-2.00	118.62	123.63
20	4	615	CHL	CMA-C3A-C4A	-2.00	110.30	114.61
22	y	617	XAT	C38-C25-C26	-2.00	119.01	122.30
21	A	841	CLA	C1-C2-C3	-2.00	122.92	126.20
21	A	840	CLA	C1-C2-C3	-2.00	122.92	126.20
21	x	611	CLA	O2D-CGD-CBD	2.00	114.73	111.23

All (260) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
20	1	601	CHL	NC
20	1	601	CHL	NA
20	1	601	CHL	ND
20	1	606	CHL	NC
20	1	606	CHL	NA
20	1	606	CHL	ND
20	2	605	CHL	NC
20	2	605	CHL	NA
20	2	605	CHL	ND
20	2	606	CHL	NC
20	2	606	CHL	NA
20	2	606	CHL	ND
20	2	601	CHL	NC
20	2	601	CHL	NA
20	2	601	CHL	ND
20	2	607	CHL	NC

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Mol	Chain	Res	Type	Atom
20	2	607	CHL	NA
20	2	607	CHL	ND
20	2	615	CHL	NC
20	2	615	CHL	NA
20	2	615	CHL	ND
20	3	606	CHL	NC
20	3	606	CHL	NA
20	3	606	CHL	ND
20	4	605	CHL	NC
20	4	605	CHL	NA
20	4	605	CHL	ND
20	4	606	CHL	NC
20	4	606	CHL	NA
20	4	606	CHL	ND
20	4	615	CHL	NC
20	4	615	CHL	NA
20	4	615	CHL	ND
20	4	607	CHL	NC
20	4	607	CHL	NA
20	4	607	CHL	ND
20	x	608	CHL	NC
20	x	608	CHL	NA
20	x	608	CHL	ND
20	x	606	CHL	NC
20	x	606	CHL	NA
20	x	606	CHL	ND
20	x	607	CHL	NC
20	x	607	CHL	NA
20	x	607	CHL	ND
20	x	609	CHL	NC
20	x	609	CHL	NA
20	x	609	CHL	ND
20	x	601	CHL	NC
20	x	601	CHL	NA
20	x	601	CHL	ND
20	x	605	CHL	NC
20	x	605	CHL	NA
20	x	605	CHL	ND
20	y	607	CHL	NC
20	y	607	CHL	NA
20	y	607	CHL	ND
20	y	606	CHL	NC

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Mol	Chain	Res	Type	Atom
20	y	606	CHL	NA
20	y	606	CHL	ND
20	y	601	CHL	NC
20	y	601	CHL	NA
20	y	601	CHL	ND
20	y	605	CHL	NC
20	y	605	CHL	NA
20	y	605	CHL	ND
20	y	608	CHL	NC
20	y	608	CHL	NA
20	y	608	CHL	ND
20	y	609	CHL	NC
20	y	609	CHL	NA
20	y	609	CHL	ND
20	z	606	CHL	NC
20	z	606	CHL	NA
20	z	606	CHL	ND
20	z	609	CHL	NC
20	z	609	CHL	NA
20	z	609	CHL	ND
20	z	608	CHL	NC
20	z	608	CHL	NA
20	z	608	CHL	ND
20	z	601	CHL	NC
20	z	601	CHL	NA
20	z	601	CHL	ND
20	z	605	CHL	NC
20	z	605	CHL	NA
20	z	605	CHL	ND
20	z	607	CHL	NC
20	z	607	CHL	NA
20	z	607	CHL	ND
21	1	602	CLA	ND
21	1	603	CLA	ND
21	1	604	CLA	ND
21	1	605	CLA	ND
21	1	607	CLA	ND
21	1	608	CLA	ND
21	1	609	CLA	ND
21	1	610	CLA	ND
21	1	611	CLA	ND
21	1	612	CLA	ND

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Mol	Chain	Res	Type	Atom
21	1	613	CLA	ND
21	2	602	CLA	ND
21	2	603	CLA	ND
21	2	604	CLA	ND
21	2	610	CLA	ND
21	2	612	CLA	ND
21	2	611	CLA	ND
21	2	608	CLA	ND
21	2	609	CLA	ND
21	2	613	CLA	ND
21	3	601	CLA	ND
21	3	611	CLA	ND
21	3	605	CLA	ND
21	3	607	CLA	ND
21	3	610	CLA	ND
21	3	603	CLA	ND
21	3	604	CLA	ND
21	3	612	CLA	ND
21	3	602	CLA	ND
21	3	609	CLA	ND
21	3	608	CLA	ND
21	4	613	CLA	ND
21	4	609	CLA	ND
21	4	608	CLA	ND
21	4	603	CLA	ND
21	4	611	CLA	ND
21	4	612	CLA	ND
21	4	601	CLA	ND
21	4	602	CLA	ND
21	4	610	CLA	ND
21	4	614	CLA	ND
21	4	604	CLA	ND
21	A	803	CLA	ND
21	A	811	CLA	ND
21	A	810	CLA	ND
21	A	812	CLA	ND
21	A	813	CLA	ND
21	A	826	CLA	ND
21	A	829	CLA	ND
21	A	830	CLA	ND
21	A	831	CLA	ND
21	A	818	CLA	ND

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Mol	Chain	Res	Type	Atom
21	A	808	CLA	ND
21	A	809	CLA	ND
21	A	807	CLA	ND
21	A	820	CLA	ND
21	A	802	CLA	ND
21	A	804	CLA	ND
21	A	823	CLA	ND
21	A	824	CLA	ND
21	A	827	CLA	ND
21	A	828	CLA	ND
21	A	825	CLA	ND
21	A	805	CLA	ND
21	A	815	CLA	ND
21	A	816	CLA	ND
21	A	814	CLA	ND
21	A	819	CLA	ND
21	A	806	CLA	ND
21	A	817	CLA	ND
21	A	821	CLA	ND
21	A	822	CLA	ND
21	A	841	CLA	ND
21	A	832	CLA	ND
21	A	838	CLA	ND
21	A	834	CLA	ND
21	A	833	CLA	ND
21	A	842	CLA	ND
21	A	844	CLA	ND
21	A	835	CLA	ND
21	A	837	CLA	ND
21	A	845	CLA	ND
21	A	836	CLA	ND
21	A	840	CLA	ND
21	A	843	CLA	ND
21	A	839	CLA	ND
21	B	816	CLA	ND
21	B	806	CLA	ND
21	B	820	CLA	ND
21	B	804	CLA	ND
21	B	808	CLA	ND
21	B	822	CLA	ND
21	B	817	CLA	ND
21	B	828	CLA	ND

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Mol	Chain	Res	Type	Atom
21	B	829	CLA	ND
21	B	830	CLA	ND
21	B	824	CLA	ND
21	B	837	CLA	ND
21	B	815	CLA	ND
21	B	811	CLA	ND
21	B	823	CLA	ND
21	B	826	CLA	ND
21	B	836	CLA	ND
21	B	838	CLA	ND
21	B	840	CLA	ND
21	B	807	CLA	ND
21	B	841	CLA	ND
21	B	835	CLA	ND
21	B	821	CLA	ND
21	B	825	CLA	ND
21	B	814	CLA	ND
21	B	832	CLA	ND
21	B	833	CLA	ND
21	B	809	CLA	ND
21	B	819	CLA	ND
21	B	818	CLA	ND
21	B	827	CLA	ND
21	B	802	CLA	ND
21	B	805	CLA	ND
21	B	810	CLA	ND
21	B	831	CLA	ND
21	B	839	CLA	ND
21	B	813	CLA	ND
21	B	834	CLA	ND
21	B	812	CLA	ND
21	B	803	CLA	ND
21	F	302	CLA	ND
21	F	303	CLA	ND
21	F	301	CLA	ND
21	G	203	CLA	ND
21	G	202	CLA	ND
21	G	201	CLA	ND
21	H	201	CLA	ND
21	J	101	CLA	ND
21	K	201	CLA	ND
21	K	204	CLA	ND

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Mol	Chain	Res	Type	Atom
21	K	206	CLA	ND
21	K	203	CLA	ND
21	L	302	CLA	ND
21	L	303	CLA	ND
21	L	304	CLA	ND
21	O	203	CLA	ND
21	O	202	CLA	ND
21	O	201	CLA	ND
21	x	610	CLA	ND
21	x	604	CLA	ND
21	x	612	CLA	ND
21	x	602	CLA	ND
21	x	611	CLA	ND
21	x	613	CLA	ND
21	x	614	CLA	ND
21	x	603	CLA	ND
21	y	603	CLA	ND
21	y	610	CLA	ND
21	y	613	CLA	ND
21	y	612	CLA	ND
21	y	602	CLA	ND
21	y	604	CLA	ND
21	y	614	CLA	ND
21	y	611	CLA	ND
21	z	602	CLA	ND
21	z	614	CLA	ND
21	z	612	CLA	ND
21	z	613	CLA	ND
21	z	604	CLA	ND
21	z	611	CLA	ND
21	z	610	CLA	ND
21	z	603	CLA	ND
27	A	801	CL0	NC
27	A	801	CL0	NA

All (1926) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
20	2	605	CHL	C1C-C2C-CMC-OMC
20	2	605	CHL	C3C-C2C-CMC-OMC
20	2	607	CHL	C1A-C2A-CAA-CBA
20	2	607	CHL	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
20	x	606	CHL	C1C-C2C-CMC-OMC
20	x	606	CHL	C3C-C2C-CMC-OMC
20	x	607	CHL	C1C-C2C-CMC-OMC
20	x	607	CHL	C3C-C2C-CMC-OMC
20	x	607	CHL	C3-C5-C6-C7
20	x	601	CHL	C3A-C2A-CAA-CBA
20	x	601	CHL	C1C-C2C-CMC-OMC
20	x	601	CHL	C3C-C2C-CMC-OMC
20	x	605	CHL	C3A-C2A-CAA-CBA
20	x	605	CHL	C1C-C2C-CMC-OMC
20	x	605	CHL	C3C-C2C-CMC-OMC
20	x	605	CHL	CBD-CGD-O2D-CED
20	y	607	CHL	C1A-C2A-CAA-CBA
20	y	607	CHL	C3A-C2A-CAA-CBA
20	y	601	CHL	C1C-C2C-CMC-OMC
20	y	601	CHL	C3C-C2C-CMC-OMC
20	y	601	CHL	CBD-CGD-O2D-CED
20	y	605	CHL	CBD-CGD-O2D-CED
20	y	608	CHL	C3A-C2A-CAA-CBA
20	y	608	CHL	C1C-C2C-CMC-OMC
20	y	608	CHL	C3C-C2C-CMC-OMC
20	y	608	CHL	CBD-CGD-O2D-CED
20	y	609	CHL	C3A-C2A-CAA-CBA
20	y	609	CHL	CBA-CGA-O2A-C1
20	y	609	CHL	O1A-CGA-O2A-C1
20	y	609	CHL	C1C-C2C-CMC-OMC
20	y	609	CHL	C3C-C2C-CMC-OMC
20	z	606	CHL	C1C-C2C-CMC-OMC
20	z	606	CHL	C3C-C2C-CMC-OMC
20	z	609	CHL	C3A-C2A-CAA-CBA
20	z	609	CHL	C1C-C2C-CMC-OMC
20	z	609	CHL	C3C-C2C-CMC-OMC
20	z	609	CHL	C4C-C3C-CAC-CBC
20	z	609	CHL	C3-C5-C6-C7
20	z	601	CHL	C1C-C2C-CMC-OMC
20	z	601	CHL	C3C-C2C-CMC-OMC
20	z	605	CHL	CAD-CBD-CGD-O1D
20	z	605	CHL	CAD-CBD-CGD-O2D
21	1	604	CLA	C1A-C2A-CAA-CBA
21	1	605	CLA	C1A-C2A-CAA-CBA
21	1	605	CLA	C3A-C2A-CAA-CBA
21	1	605	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	1	607	CLA	C1A-C2A-CAA-CBA
21	1	607	CLA	C3A-C2A-CAA-CBA
21	1	608	CLA	CBD-CGD-O2D-CED
21	1	609	CLA	CBD-CGD-O2D-CED
21	1	611	CLA	CHA-CBD-CGD-O1D
21	1	611	CLA	CHA-CBD-CGD-O2D
21	2	602	CLA	CHA-CBD-CGD-O2D
21	2	604	CLA	C1A-C2A-CAA-CBA
21	2	604	CLA	C3A-C2A-CAA-CBA
21	2	604	CLA	CAA-CBA-CGA-O1A
21	2	604	CLA	CHA-CBD-CGD-O1D
21	2	604	CLA	CHA-CBD-CGD-O2D
21	2	610	CLA	CMA-C3A-C4A-CHB
21	2	610	CLA	CMA-C3A-C4A-NA
21	2	612	CLA	CBD-CGD-O2D-CED
21	2	608	CLA	C3A-C2A-CAA-CBA
21	2	613	CLA	C4B-C3B-CAB-CBB
21	3	601	CLA	CHA-CBD-CGD-O1D
21	3	601	CLA	CHA-CBD-CGD-O2D
21	3	605	CLA	C1A-C2A-CAA-CBA
21	3	605	CLA	CAD-CBD-CGD-O1D
21	3	605	CLA	CAD-CBD-CGD-O2D
21	3	603	CLA	C1A-C2A-CAA-CBA
21	3	603	CLA	C3A-C2A-CAA-CBA
21	3	609	CLA	C1A-C2A-CAA-CBA
21	3	609	CLA	C3A-C2A-CAA-CBA
21	3	608	CLA	CBD-CGD-O2D-CED
21	4	613	CLA	C1A-C2A-CAA-CBA
21	4	613	CLA	C2B-C3B-CAB-CBB
21	4	613	CLA	C4B-C3B-CAB-CBB
21	4	609	CLA	CBD-CGD-O2D-CED
21	4	611	CLA	CHA-CBD-CGD-O2D
21	4	610	CLA	C3A-C2A-CAA-CBA
21	4	610	CLA	C4B-C3B-CAB-CBB
21	4	614	CLA	CHA-CBD-CGD-O1D
21	4	614	CLA	CHA-CBD-CGD-O2D
21	4	604	CLA	CBD-CGD-O2D-CED
21	4	604	CLA	O1D-CGD-O2D-CED
21	A	810	CLA	C2B-C3B-CAB-CBB
21	A	810	CLA	C4B-C3B-CAB-CBB
21	A	812	CLA	C2B-C3B-CAB-CBB
21	A	812	CLA	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
21	A	813	CLA	CHA-CBD-CGD-O1D
21	A	813	CLA	CHA-CBD-CGD-O2D
21	A	829	CLA	CBD-CGD-O2D-CED
21	A	830	CLA	C1A-C2A-CAA-CBA
21	A	830	CLA	CBA-CGA-O2A-C1
21	A	830	CLA	O1A-CGA-O2A-C1
21	A	830	CLA	O2A-C1-C2-C3
21	A	830	CLA	C2-C3-C5-C6
21	A	830	CLA	C4-C3-C5-C6
21	A	818	CLA	CBD-CGD-O2D-CED
21	A	808	CLA	C4B-C3B-CAB-CBB
21	A	809	CLA	CHA-CBD-CGD-O1D
21	A	809	CLA	CHA-CBD-CGD-O2D
21	A	820	CLA	C1A-C2A-CAA-CBA
21	A	820	CLA	C3A-C2A-CAA-CBA
21	A	802	CLA	C1A-C2A-CAA-CBA
21	A	802	CLA	C3A-C2A-CAA-CBA
21	A	802	CLA	CBD-CGD-O2D-CED
21	A	804	CLA	C1A-C2A-CAA-CBA
21	A	804	CLA	CAD-CBD-CGD-O1D
21	A	804	CLA	CAD-CBD-CGD-O2D
21	A	823	CLA	C1A-C2A-CAA-CBA
21	A	823	CLA	C3A-C2A-CAA-CBA
21	A	827	CLA	C3A-C2A-CAA-CBA
21	A	825	CLA	C1A-C2A-CAA-CBA
21	A	825	CLA	C3A-C2A-CAA-CBA
21	A	805	CLA	C3A-C2A-CAA-CBA
21	A	814	CLA	C1A-C2A-CAA-CBA
21	A	814	CLA	C3A-C2A-CAA-CBA
21	A	819	CLA	C1A-C2A-CAA-CBA
21	A	819	CLA	C3A-C2A-CAA-CBA
21	A	819	CLA	C2-C3-C5-C6
21	A	819	CLA	C4-C3-C5-C6
21	A	819	CLA	C6-C7-C8-C9
21	A	806	CLA	C1A-C2A-CAA-CBA
21	A	806	CLA	CAD-CBD-CGD-O2D
21	A	841	CLA	C1A-C2A-CAA-CBA
21	A	841	CLA	C3A-C2A-CAA-CBA
21	A	841	CLA	CAD-CBD-CGD-O1D
21	A	841	CLA	CAD-CBD-CGD-O2D
21	A	841	CLA	CBD-CGD-O2D-CED
21	A	834	CLA	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
21	A	842	CLA	C1A-C2A-CAA-CBA
21	A	844	CLA	C4-C3-C5-C6
21	A	835	CLA	CHA-CBD-CGD-O1D
21	A	835	CLA	CHA-CBD-CGD-O2D
21	A	845	CLA	C1A-C2A-CAA-CBA
21	A	845	CLA	C3A-C2A-CAA-CBA
21	A	836	CLA	C1A-C2A-CAA-CBA
21	A	843	CLA	C2-C1-O2A-CGA
21	B	820	CLA	C3A-C2A-CAA-CBA
21	B	804	CLA	CHA-CBD-CGD-O1D
21	B	804	CLA	CHA-CBD-CGD-O2D
21	B	822	CLA	C1A-C2A-CAA-CBA
21	B	822	CLA	C2B-C3B-CAB-CBB
21	B	822	CLA	C4B-C3B-CAB-CBB
21	B	822	CLA	CBD-CGD-O2D-CED
21	B	828	CLA	C1A-C2A-CAA-CBA
21	B	828	CLA	C3A-C2A-CAA-CBA
21	B	824	CLA	C3A-C2A-CAA-CBA
21	B	811	CLA	C1A-C2A-CAA-CBA
21	B	811	CLA	CHA-CBD-CGD-O2D
21	B	823	CLA	C1A-C2A-CAA-CBA
21	B	823	CLA	C3A-C2A-CAA-CBA
21	B	826	CLA	C1A-C2A-CAA-CBA
21	B	835	CLA	C3A-C2A-CAA-CBA
21	B	821	CLA	C1A-C2A-CAA-CBA
21	B	825	CLA	C3A-C2A-CAA-CBA
21	B	825	CLA	CHA-CBD-CGD-O1D
21	B	825	CLA	CHA-CBD-CGD-O2D
21	B	833	CLA	CHA-CBD-CGD-O1D
21	B	833	CLA	CHA-CBD-CGD-O2D
21	B	809	CLA	C1A-C2A-CAA-CBA
21	B	819	CLA	C1A-C2A-CAA-CBA
21	B	819	CLA	C3A-C2A-CAA-CBA
21	B	818	CLA	C1A-C2A-CAA-CBA
21	B	818	CLA	C3A-C2A-CAA-CBA
21	B	827	CLA	C1A-C2A-CAA-CBA
21	B	827	CLA	C3A-C2A-CAA-CBA
21	B	802	CLA	C3A-C2A-CAA-CBA
21	B	802	CLA	C11-C12-C13-C14
21	B	805	CLA	C1A-C2A-CAA-CBA
21	B	805	CLA	C3A-C2A-CAA-CBA
21	B	810	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	B	803	CLA	CBD-CGD-O2D-CED
21	B	803	CLA	O1D-CGD-O2D-CED
21	F	302	CLA	CBD-CGD-O2D-CED
21	F	303	CLA	CHA-CBD-CGD-O1D
21	F	303	CLA	CHA-CBD-CGD-O2D
21	F	301	CLA	CBD-CGD-O2D-CED
21	F	301	CLA	C4-C3-C5-C6
21	G	202	CLA	C1A-C2A-CAA-CBA
21	G	202	CLA	C3A-C2A-CAA-CBA
21	G	201	CLA	C1A-C2A-CAA-CBA
21	G	201	CLA	C3A-C2A-CAA-CBA
21	G	201	CLA	CHA-CBD-CGD-O1D
21	G	201	CLA	CHA-CBD-CGD-O2D
21	G	201	CLA	CBD-CGD-O2D-CED
21	K	204	CLA	CHA-CBD-CGD-O1D
21	K	204	CLA	CHA-CBD-CGD-O2D
21	K	204	CLA	CBD-CGD-O2D-CED
21	K	203	CLA	C1A-C2A-CAA-CBA
21	x	610	CLA	C3A-C2A-CAA-CBA
21	x	604	CLA	CBA-CGA-O2A-C1
21	x	612	CLA	CHA-CBD-CGD-O1D
21	x	612	CLA	CHA-CBD-CGD-O2D
21	x	612	CLA	CBD-CGD-O2D-CED
21	x	602	CLA	C3A-C2A-CAA-CBA
21	x	602	CLA	CHA-CBD-CGD-O1D
21	x	602	CLA	CHA-CBD-CGD-O2D
21	x	613	CLA	CBD-CGD-O2D-CED
21	x	603	CLA	C6-C7-C8-C9
21	y	610	CLA	C1A-C2A-CAA-CBA
21	y	610	CLA	C3A-C2A-CAA-CBA
21	y	610	CLA	CBD-CGD-O2D-CED
21	y	612	CLA	CHA-CBD-CGD-O1D
21	y	612	CLA	CHA-CBD-CGD-O2D
21	y	612	CLA	CBD-CGD-O2D-CED
21	y	602	CLA	C3A-C2A-CAA-CBA
21	y	604	CLA	C1A-C2A-CAA-CBA
21	y	614	CLA	C1A-C2A-CAA-CBA
21	y	614	CLA	O1A-CGA-O2A-C1
21	y	614	CLA	C4B-C3B-CAB-CBB
21	y	614	CLA	CBD-CGD-O2D-CED
21	y	614	CLA	C6-C7-C8-C10
21	y	611	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	y	611	CLA	C3A-C2A-CAA-CBA
21	z	602	CLA	CHA-CBD-CGD-O1D
21	z	602	CLA	CHA-CBD-CGD-O2D
21	z	602	CLA	O2A-C1-C2-C3
21	z	614	CLA	C1A-C2A-CAA-CBA
21	z	614	CLA	CHA-CBD-CGD-O1D
21	z	614	CLA	CHA-CBD-CGD-O2D
21	z	612	CLA	CHA-CBD-CGD-O1D
21	z	612	CLA	CHA-CBD-CGD-O2D
22	1	614	XAT	O24-C26-C27-C28
22	2	617	XAT	O4-C6-C7-C8
22	2	617	XAT	C11-C10-C9-C19
22	2	617	XAT	C10-C11-C12-C13
22	2	617	XAT	C13-C14-C15-C35
22	2	617	XAT	O24-C26-C27-C28
22	2	617	XAT	C28-C29-C30-C31
22	2	617	XAT	C39-C29-C30-C31
22	2	617	XAT	C31-C32-C33-C34
22	4	617	XAT	O4-C6-C7-C8
22	x	617	XAT	C5-C6-C7-C8
22	x	617	XAT	C6-C7-C8-C9
22	x	617	XAT	O24-C26-C27-C28
22	y	617	XAT	O24-C26-C27-C28
23	1	615	LHG	C2-C3-O3-P
23	1	615	LHG	C3-O3-P-O4
23	1	615	LHG	C3-O3-P-O6
23	1	615	LHG	O7-C5-C6-O8
23	2	618	LHG	C3-O3-P-O5
23	2	618	LHG	C3-O3-P-O6
23	2	618	LHG	O9-C7-O7-C5
23	2	618	LHG	C8-C7-O7-C5
23	2	618	LHG	O10-C23-O8-C6
23	2	618	LHG	C24-C23-O8-C6
23	A	846	LHG	O10-C23-O8-C6
23	A	846	LHG	C24-C23-O8-C6
23	B	851	LHG	C8-C7-O7-C5
23	B	852	LHG	C2-C3-O3-P
23	B	852	LHG	C3-O3-P-O6
23	z	619	LHG	C3-O3-P-O5
23	z	619	LHG	O10-C23-O8-C6
23	z	619	LHG	C24-C23-O8-C6
24	2	619	LUT	C21-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
24	2	619	LUT	C25-C26-C27-C28
24	2	616	LUT	C6-C7-C8-C9
24	3	613	LUT	C21-C26-C27-C28
24	3	613	LUT	C25-C26-C27-C28
24	4	616	LUT	C1-C6-C7-C8
24	4	616	LUT	C5-C6-C7-C8
24	y	616	LUT	C1-C6-C7-C8
24	y	616	LUT	C5-C6-C7-C8
24	y	616	LUT	C21-C26-C27-C28
24	y	616	LUT	C25-C26-C27-C28
24	y	615	LUT	C26-C27-C28-C29
24	z	616	LUT	C21-C26-C27-C28
24	z	616	LUT	C25-C26-C27-C28
25	3	614	BCR	C21-C22-C23-C24
25	3	614	BCR	C37-C22-C23-C24
25	4	618	BCR	C7-C8-C9-C10
25	4	618	BCR	C23-C24-C25-C26
25	A	852	BCR	C14-C15-C16-C17
25	A	852	BCR	C16-C17-C18-C19
25	A	852	BCR	C16-C17-C18-C36
25	A	849	BCR	C23-C24-C25-C26
25	A	849	BCR	C23-C24-C25-C30
25	B	801	BCR	C1-C6-C7-C8
25	B	801	BCR	C5-C6-C7-C8
25	B	844	BCR	C12-C13-C14-C15
25	B	844	BCR	C35-C13-C14-C15
25	B	844	BCR	C14-C15-C16-C17
25	B	844	BCR	C16-C17-C18-C36
25	B	846	BCR	C23-C24-C25-C26
25	B	846	BCR	C23-C24-C25-C30
25	B	849	BCR	C11-C10-C9-C34
25	B	849	BCR	C22-C23-C24-C25
25	F	304	BCR	C15-C16-C17-C18
25	K	205	BCR	C7-C8-C9-C10
25	K	205	BCR	C17-C18-C19-C20
25	K	205	BCR	C18-C19-C20-C21
30	B	850	DGD	O2G-C2G-C3G-O3G
31	x	618	NEX	C21-C26-C27-C28
31	x	618	NEX	C25-C26-C27-C28
31	x	618	NEX	O24-C26-C27-C28
31	x	618	NEX	C28-C29-C30-C31
31	x	618	NEX	C39-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
21	1	608	CLA	O1D-CGD-O2D-CED
21	2	609	CLA	O1D-CGD-O2D-CED
21	A	802	CLA	O1D-CGD-O2D-CED
21	B	822	CLA	O1D-CGD-O2D-CED
21	B	830	CLA	O1D-CGD-O2D-CED
21	H	201	CLA	O1D-CGD-O2D-CED
21	x	610	CLA	O1D-CGD-O2D-CED
20	3	606	CHL	O1D-CGD-O2D-CED
21	4	609	CLA	O1D-CGD-O2D-CED
21	A	818	CLA	O1D-CGD-O2D-CED
21	B	802	CLA	O1D-CGD-O2D-CED
21	K	204	CLA	O1D-CGD-O2D-CED
20	3	606	CHL	CBD-CGD-O2D-CED
20	4	607	CHL	CBD-CGD-O2D-CED
20	z	606	CHL	CBD-CGD-O2D-CED
21	2	609	CLA	CBD-CGD-O2D-CED
21	2	613	CLA	CBD-CGD-O2D-CED
21	3	605	CLA	CBD-CGD-O2D-CED
21	3	607	CLA	CBD-CGD-O2D-CED
21	4	614	CLA	CBD-CGD-O2D-CED
21	A	811	CLA	CBD-CGD-O2D-CED
21	A	812	CLA	CBD-CGD-O2D-CED
21	B	830	CLA	CBD-CGD-O2D-CED
21	B	802	CLA	CBD-CGD-O2D-CED
21	H	201	CLA	CBD-CGD-O2D-CED
21	x	610	CLA	CBD-CGD-O2D-CED
21	y	613	CLA	CBD-CGD-O2D-CED
21	z	610	CLA	CBD-CGD-O2D-CED
20	x	607	CHL	O1A-CGA-O2A-C1
21	A	803	CLA	O1A-CGA-O2A-C1
21	x	604	CLA	O1A-CGA-O2A-C1
21	y	610	CLA	O1A-CGA-O2A-C1
21	F	302	CLA	O1D-CGD-O2D-CED
21	2	613	CLA	O1D-CGD-O2D-CED
21	A	811	CLA	O1D-CGD-O2D-CED
21	y	613	CLA	O1D-CGD-O2D-CED
21	z	610	CLA	O1D-CGD-O2D-CED
20	x	607	CHL	CBA-CGA-O2A-C1
21	A	803	CLA	CBA-CGA-O2A-C1
20	x	601	CHL	O1A-CGA-O2A-C1
20	z	609	CHL	O1A-CGA-O2A-C1
21	3	602	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	A	835	CLA	O1A-CGA-O2A-C1
21	A	839	CLA	O1A-CGA-O2A-C1
21	B	836	CLA	O1A-CGA-O2A-C1
21	B	802	CLA	O1A-CGA-O2A-C1
21	y	604	CLA	O1A-CGA-O2A-C1
21	1	605	CLA	O1A-CGA-O2A-C1
21	3	605	CLA	O1D-CGD-O2D-CED
21	y	610	CLA	O1D-CGD-O2D-CED
20	x	605	CHL	O1D-CGD-O2D-CED
20	y	601	CHL	O1D-CGD-O2D-CED
20	y	605	CHL	O1D-CGD-O2D-CED
21	1	609	CLA	O1D-CGD-O2D-CED
21	2	612	CLA	O1D-CGD-O2D-CED
21	3	608	CLA	O1D-CGD-O2D-CED
21	A	829	CLA	O1D-CGD-O2D-CED
21	F	301	CLA	O1D-CGD-O2D-CED
21	G	201	CLA	O1D-CGD-O2D-CED
21	x	613	CLA	O1D-CGD-O2D-CED
21	y	612	CLA	O1D-CGD-O2D-CED
21	A	820	CLA	O1A-CGA-O2A-C1
23	B	851	LHG	O9-C7-O7-C5
30	B	850	DGD	O1B-C1B-O2G-C2G
21	3	602	CLA	C3-C5-C6-C7
21	4	602	CLA	C3-C5-C6-C7
21	A	803	CLA	C3-C5-C6-C7
21	A	829	CLA	C3-C5-C6-C7
21	A	814	CLA	C3-C5-C6-C7
21	A	819	CLA	C3-C5-C6-C7
21	A	833	CLA	C3-C5-C6-C7
21	A	843	CLA	C3-C5-C6-C7
21	B	829	CLA	C3-C5-C6-C7
21	B	840	CLA	C3-C5-C6-C7
21	B	841	CLA	C3-C5-C6-C7
21	B	814	CLA	C3-C5-C6-C7
21	B	827	CLA	C3-C5-C6-C7
21	B	805	CLA	C3-C5-C6-C7
21	L	303	CLA	C3-C5-C6-C7
21	x	613	CLA	C3-C5-C6-C7
27	A	801	CL0	C3-C5-C6-C7
21	A	812	CLA	C13-C15-C16-C17
20	y	608	CHL	O1D-CGD-O2D-CED
20	z	609	CHL	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	3	602	CLA	CBA-CGA-O2A-C1
21	A	835	CLA	CBA-CGA-O2A-C1
21	B	836	CLA	CBA-CGA-O2A-C1
21	y	610	CLA	CBA-CGA-O2A-C1
21	y	604	CLA	CBA-CGA-O2A-C1
21	y	614	CLA	CBA-CGA-O2A-C1
20	y	606	CHL	CBD-CGD-O2D-CED
20	z	608	CHL	CBD-CGD-O2D-CED
20	z	601	CHL	CBD-CGD-O2D-CED
21	1	604	CLA	CBD-CGD-O2D-CED
21	2	604	CLA	CBD-CGD-O2D-CED
21	A	803	CLA	CBD-CGD-O2D-CED
21	A	813	CLA	CBD-CGD-O2D-CED
21	A	816	CLA	CBD-CGD-O2D-CED
21	x	614	CLA	CBD-CGD-O2D-CED
21	z	613	CLA	CBD-CGD-O2D-CED
30	B	850	DGD	C2B-C1B-O2G-C2G
20	2	607	CHL	O1D-CGD-O2D-CED
21	A	841	CLA	O1D-CGD-O2D-CED
21	x	612	CLA	O1D-CGD-O2D-CED
21	y	614	CLA	O1D-CGD-O2D-CED
20	y	609	CHL	C4-C3-C5-C6
21	1	603	CLA	C4-C3-C5-C6
21	2	602	CLA	C4-C3-C5-C6
21	A	818	CLA	C4-C3-C5-C6
21	A	825	CLA	C4-C3-C5-C6
21	A	840	CLA	C4-C3-C5-C6
21	A	839	CLA	C4-C3-C5-C6
21	B	824	CLA	C4-C3-C5-C6
21	B	814	CLA	C4-C3-C5-C6
21	B	809	CLA	C4-C3-C5-C6
21	x	610	CLA	C4-C3-C5-C6
21	y	602	CLA	C4-C3-C5-C6
29	B	842	PQN	C14-C13-C15-C16
20	y	609	CHL	C2-C3-C5-C6
21	2	602	CLA	C2-C3-C5-C6
21	A	818	CLA	C2-C3-C5-C6
21	A	825	CLA	C2-C3-C5-C6
21	A	844	CLA	C2-C3-C5-C6
21	A	840	CLA	C2-C3-C5-C6
21	B	824	CLA	C2-C3-C5-C6
21	B	809	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
21	F	301	CLA	C2-C3-C5-C6
21	x	610	CLA	C2-C3-C5-C6
21	y	602	CLA	C2-C3-C5-C6
21	B	823	CLA	CBD-CGD-O2D-CED
20	1	601	CHL	C3-C5-C6-C7
21	1	605	CLA	C2A-CAA-CBA-CGA
21	A	818	CLA	C3-C5-C6-C7
21	A	828	CLA	C3-C5-C6-C7
21	B	806	CLA	C3-C5-C6-C7
21	B	808	CLA	C3-C5-C6-C7
20	x	601	CHL	CBA-CGA-O2A-C1
20	y	601	CHL	CBA-CGA-O2A-C1
21	A	802	CLA	CBA-CGA-O2A-C1
21	A	839	CLA	CBA-CGA-O2A-C1
21	B	811	CLA	CBA-CGA-O2A-C1
21	B	802	CLA	CBA-CGA-O2A-C1
21	x	602	CLA	CBA-CGA-O2A-C1
22	2	617	XAT	C33-C34-C35-C15
22	x	617	XAT	C9-C10-C11-C12
22	y	617	XAT	C29-C30-C31-C32
24	1	616	LUT	C29-C30-C31-C32
24	2	616	LUT	C33-C34-C35-C15
24	3	613	LUT	C9-C10-C11-C12
24	3	613	LUT	C33-C34-C35-C15
24	y	615	LUT	C13-C14-C15-C35
24	z	616	LUT	C29-C30-C31-C32
25	A	853	BCR	C9-C10-C11-C12
25	A	850	BCR	C13-C14-C15-C16
25	A	850	BCR	C15-C16-C17-C18
25	A	851	BCR	C13-C14-C15-C16
25	A	849	BCR	C15-C16-C17-C18
25	A	849	BCR	C19-C20-C21-C22
25	B	801	BCR	C9-C10-C11-C12
25	B	843	BCR	C13-C14-C15-C16
25	B	845	BCR	C19-C20-C21-C22
25	F	304	BCR	C19-C20-C21-C22
31	x	618	NEX	C29-C30-C31-C32
21	1	603	CLA	O1A-CGA-O2A-C1
21	2	609	CLA	O1A-CGA-O2A-C1
21	A	818	CLA	O1A-CGA-O2A-C1
21	A	802	CLA	O1A-CGA-O2A-C1
21	B	811	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	B	827	CLA	O1A-CGA-O2A-C1
21	L	303	CLA	O1A-CGA-O2A-C1
20	z	606	CHL	O1D-CGD-O2D-CED
21	2	612	CLA	C3-C5-C6-C7
21	3	601	CLA	C3-C5-C6-C7
21	A	807	CLA	C3-C5-C6-C7
21	A	844	CLA	C3-C5-C6-C7
21	2	608	CLA	CBD-CGD-O2D-CED
21	3	603	CLA	CBD-CGD-O2D-CED
21	A	822	CLA	CBD-CGD-O2D-CED
21	y	602	CLA	CBD-CGD-O2D-CED
21	y	604	CLA	CBD-CGD-O2D-CED
23	1	615	LHG	O2-C2-C3-O3
21	3	607	CLA	O1D-CGD-O2D-CED
21	4	614	CLA	O1D-CGD-O2D-CED
21	A	811	CLA	CBA-CGA-O2A-C1
21	A	818	CLA	CBA-CGA-O2A-C1
21	A	820	CLA	CBA-CGA-O2A-C1
21	L	303	CLA	CBA-CGA-O2A-C1
23	y	619	LHG	C24-C23-O8-C6
21	A	811	CLA	O1A-CGA-O2A-C1
20	y	607	CHL	CBD-CGD-O2D-CED
21	A	814	CLA	CBD-CGD-O2D-CED
21	A	838	CLA	CBD-CGD-O2D-CED
21	O	201	CLA	CBD-CGD-O2D-CED
21	x	603	CLA	CBD-CGD-O2D-CED
21	K	204	CLA	CBA-CGA-O2A-C1
21	A	841	CLA	C3-C5-C6-C7
21	B	803	CLA	C3-C5-C6-C7
21	H	201	CLA	C3-C5-C6-C7
20	x	607	CHL	CBD-CGD-O2D-CED
21	1	602	CLA	CBD-CGD-O2D-CED
21	A	823	CLA	CBD-CGD-O2D-CED
21	B	840	CLA	CBD-CGD-O2D-CED
21	B	834	CLA	CBD-CGD-O2D-CED
21	1	603	CLA	CBA-CGA-O2A-C1
21	2	609	CLA	CBA-CGA-O2A-C1
21	B	827	CLA	CBA-CGA-O2A-C1
20	z	609	CHL	C4-C3-C5-C6
21	A	805	CLA	C4-C3-C5-C6
21	A	841	CLA	C4-C3-C5-C6
20	y	601	CHL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
21	A	839	CLA	C2-C3-C5-C6
21	B	814	CLA	C2-C3-C5-C6
20	y	601	CHL	O1A-CGA-O2A-C1
21	x	602	CLA	O1A-CGA-O2A-C1
21	A	820	CLA	CBD-CGD-O2D-CED
21	B	835	CLA	CBD-CGD-O2D-CED
21	x	604	CLA	CBD-CGD-O2D-CED
21	A	812	CLA	O1D-CGD-O2D-CED
20	x	605	CHL	C3-C5-C6-C7
21	A	838	CLA	C2A-CAA-CBA-CGA
21	H	201	CLA	C2A-CAA-CBA-CGA
30	B	850	DGD	O6D-C1D-O3G-C3G
23	1	615	LHG	C28-C29-C30-C31
21	3	601	CLA	C5-C6-C7-C8
20	4	607	CHL	O1D-CGD-O2D-CED
21	A	842	CLA	CBA-CGA-O2A-C1
21	F	301	CLA	CBA-CGA-O2A-C1
21	x	610	CLA	CBA-CGA-O2A-C1
26	4	620	LMG	C29-C28-O8-C9
20	4	606	CHL	CBD-CGD-O2D-CED
21	A	817	CLA	CBD-CGD-O2D-CED
21	A	836	CLA	CBD-CGD-O2D-CED
21	B	813	CLA	CBD-CGD-O2D-CED
21	J	101	CLA	CBD-CGD-O2D-CED
23	y	619	LHG	O10-C23-O8-C6
23	1	615	LHG	C34-C35-C36-C37
20	z	605	CHL	CBD-CGD-O2D-CED
21	4	613	CLA	CBD-CGD-O2D-CED
21	4	612	CLA	CBD-CGD-O2D-CED
22	x	617	XAT	C13-C14-C15-C35
21	x	610	CLA	O1A-CGA-O2A-C1
26	4	620	LMG	O10-C28-O8-C9
20	1	601	CHL	CBA-CGA-O2A-C1
20	y	607	CHL	CBA-CGA-O2A-C1
21	A	805	CLA	CBA-CGA-O2A-C1
21	A	843	CLA	CBA-CGA-O2A-C1
21	B	840	CLA	CBA-CGA-O2A-C1
21	B	814	CLA	CBA-CGA-O2A-C1
21	J	101	CLA	CBA-CGA-O2A-C1
21	z	602	CLA	CBA-CGA-O2A-C1
21	z	604	CLA	CBA-CGA-O2A-C1
21	z	603	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
27	A	801	CL0	CBA-CGA-O2A-C1
21	K	203	CLA	CBD-CGD-O2D-CED
23	1	615	LHG	C11-C10-C9-C8
21	A	835	CLA	C2C-C3C-CAC-CBC
20	y	607	CHL	O1A-CGA-O2A-C1
20	y	601	CHL	C4-C3-C5-C6
21	A	833	CLA	C4-C3-C5-C6
20	z	609	CHL	C2-C3-C5-C6
21	1	603	CLA	C2-C3-C5-C6
21	A	841	CLA	C2-C3-C5-C6
21	A	833	CLA	C2-C3-C5-C6
29	B	842	PQN	C12-C13-C15-C16
21	2	612	CLA	C11-C12-C13-C14
21	3	601	CLA	C11-C10-C8-C9
21	4	612	CLA	C6-C7-C8-C9
21	A	803	CLA	C6-C7-C8-C9
21	A	811	CLA	C14-C13-C15-C16
21	A	812	CLA	C6-C7-C8-C9
21	A	826	CLA	C11-C10-C8-C9
21	A	826	CLA	C11-C12-C13-C14
21	A	831	CLA	C6-C7-C8-C9
21	A	818	CLA	C11-C10-C8-C9
21	A	807	CLA	C11-C10-C8-C9
21	A	820	CLA	C11-C10-C8-C9
21	A	802	CLA	C11-C12-C13-C14
21	A	804	CLA	C11-C10-C8-C9
21	A	828	CLA	C11-C10-C8-C9
21	A	841	CLA	C14-C13-C15-C16
21	A	835	CLA	C11-C10-C8-C9
21	B	808	CLA	C6-C7-C8-C9
21	B	808	CLA	C14-C13-C15-C16
21	B	828	CLA	C14-C13-C15-C16
21	B	840	CLA	C6-C7-C8-C9
21	B	840	CLA	C14-C13-C15-C16
21	B	825	CLA	C11-C12-C13-C14
21	B	825	CLA	C14-C13-C15-C16
21	B	814	CLA	C11-C10-C8-C9
21	B	809	CLA	C6-C7-C8-C9
21	B	805	CLA	C11-C10-C8-C9
21	B	803	CLA	C6-C7-C8-C9
21	B	803	CLA	C11-C10-C8-C9
21	F	301	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
21	H	201	CLA	C6-C7-C8-C9
21	L	303	CLA	C11-C12-C13-C14
21	O	201	CLA	C11-C10-C8-C9
21	x	610	CLA	C6-C7-C8-C9
21	x	610	CLA	C11-C12-C13-C14
21	y	602	CLA	C14-C13-C15-C16
21	y	614	CLA	C11-C12-C13-C14
27	A	801	CL0	C11-C10-C8-C9
21	A	816	CLA	O1D-CGD-O2D-CED
20	y	608	CHL	O2A-C1-C2-C3
21	A	813	CLA	O1D-CGD-O2D-CED
22	1	614	XAT	C7-C8-C9-C19
22	2	617	XAT	C31-C32-C33-C40
22	x	617	XAT	C7-C8-C9-C19
22	y	617	XAT	C7-C8-C9-C19
24	2	616	LUT	C31-C32-C33-C40
24	x	616	LUT	C27-C28-C29-C39
24	y	616	LUT	C27-C28-C29-C39
24	y	615	LUT	C31-C32-C33-C40
24	z	615	LUT	C7-C8-C9-C19
25	4	618	BCR	C7-C8-C9-C34
25	A	852	BCR	C37-C22-C23-C24
25	A	850	BCR	C7-C8-C9-C34
25	A	851	BCR	C11-C12-C13-C35
25	F	304	BCR	C11-C12-C13-C35
25	K	205	BCR	C7-C8-C9-C34
25	K	205	BCR	C36-C18-C19-C20
25	L	306	BCR	C7-C8-C9-C34
22	1	614	XAT	C7-C8-C9-C10
22	x	617	XAT	C7-C8-C9-C10
22	y	617	XAT	C7-C8-C9-C10
24	2	616	LUT	C31-C32-C33-C34
24	x	616	LUT	C27-C28-C29-C30
24	y	616	LUT	C27-C28-C29-C30
24	y	615	LUT	C31-C32-C33-C34
24	z	615	LUT	C7-C8-C9-C10
25	A	852	BCR	C21-C22-C23-C24
25	A	850	BCR	C7-C8-C9-C10
25	A	851	BCR	C11-C12-C13-C14
25	B	845	BCR	C21-C22-C23-C24
25	F	304	BCR	C11-C12-C13-C14
25	L	306	BCR	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
20	3	606	CHL	C2A-CAA-CBA-CGA
20	y	607	CHL	C3-C5-C6-C7
21	2	604	CLA	O1D-CGD-O2D-CED
21	B	840	CLA	O1A-CGA-O2A-C1
21	B	814	CLA	O1A-CGA-O2A-C1
21	z	604	CLA	O1A-CGA-O2A-C1
20	z	601	CHL	O1D-CGD-O2D-CED
21	A	845	CLA	CBA-CGA-O2A-C1
21	y	602	CLA	CBA-CGA-O2A-C1
21	1	604	CLA	O1D-CGD-O2D-CED
21	y	611	CLA	CBD-CGD-O2D-CED
21	A	835	CLA	C8-C10-C11-C12
21	z	613	CLA	C15-C16-C17-C18
21	z	613	CLA	O1D-CGD-O2D-CED
21	A	843	CLA	O1A-CGA-O2A-C1
21	4	602	CLA	C5-C6-C7-C8
21	L	303	CLA	C8-C10-C11-C12
20	x	606	CHL	CBD-CGD-O2D-CED
20	z	609	CHL	C2C-C3C-CAC-CBC
21	A	804	CLA	C6-C7-C8-C10
21	B	806	CLA	C11-C10-C8-C7
21	B	827	CLA	C11-C12-C13-C15
21	B	810	CLA	C6-C7-C8-C10
21	z	613	CLA	C6-C7-C8-C10
21	A	838	CLA	CBA-CGA-O2A-C1
21	B	813	CLA	C13-C15-C16-C17
21	O	201	CLA	C15-C16-C17-C18
21	y	610	CLA	C5-C6-C7-C8
21	z	614	CLA	C3-C5-C6-C7
21	z	613	CLA	C3-C5-C6-C7
21	A	828	CLA	C8-C10-C11-C12
23	B	851	LHG	C23-C24-C25-C26
21	A	805	CLA	O1A-CGA-O2A-C1
21	z	603	CLA	O1A-CGA-O2A-C1
21	A	825	CLA	CBD-CGD-O2D-CED
21	A	812	CLA	C5-C6-C7-C8
21	B	808	CLA	C13-C15-C16-C17
21	O	201	CLA	C13-C15-C16-C17
23	y	619	LHG	C2-C3-O3-P
20	2	601	CHL	C2A-CAA-CBA-CGA
20	2	607	CHL	C2A-CAA-CBA-CGA
20	x	601	CHL	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
20	y	601	CHL	C2A-CAA-CBA-CGA
20	z	609	CHL	C2A-CAA-CBA-CGA
20	z	607	CHL	C2A-CAA-CBA-CGA
21	2	608	CLA	C2A-CAA-CBA-CGA
21	A	809	CLA	C2A-CAA-CBA-CGA
21	A	843	CLA	C2A-CAA-CBA-CGA
21	B	802	CLA	C2A-CAA-CBA-CGA
21	B	839	CLA	C2A-CAA-CBA-CGA
21	B	813	CLA	C2A-CAA-CBA-CGA
21	G	201	CLA	C2A-CAA-CBA-CGA
21	x	602	CLA	C2A-CAA-CBA-CGA
21	y	613	CLA	C2A-CAA-CBA-CGA
21	z	602	CLA	C2A-CAA-CBA-CGA
20	z	608	CHL	O1D-CGD-O2D-CED
22	2	617	XAT	C30-C31-C32-C33
21	2	602	CLA	C15-C16-C17-C18
21	A	826	CLA	C8-C10-C11-C12
21	A	828	CLA	C5-C6-C7-C8
21	A	842	CLA	C8-C10-C11-C12
21	B	822	CLA	C5-C6-C7-C8
21	B	814	CLA	C8-C10-C11-C12
21	H	201	CLA	C5-C6-C7-C8
27	A	801	CL0	C15-C16-C17-C18
20	1	601	CHL	O1A-CGA-O2A-C1
21	J	101	CLA	O1A-CGA-O2A-C1
21	z	602	CLA	O1A-CGA-O2A-C1
27	A	801	CL0	O1A-CGA-O2A-C1
21	B	802	CLA	C3-C5-C6-C7
21	2	602	CLA	C5-C6-C7-C8
21	2	602	CLA	C13-C15-C16-C17
21	A	812	CLA	C10-C11-C12-C13
21	A	831	CLA	C13-C15-C16-C17
21	A	820	CLA	C5-C6-C7-C8
21	A	806	CLA	C10-C11-C12-C13
21	B	837	CLA	C10-C11-C12-C13
21	B	809	CLA	C5-C6-C7-C8
21	B	805	CLA	C10-C11-C12-C13
21	x	602	CLA	C5-C6-C7-C8
21	x	602	CLA	C10-C11-C12-C13
21	y	602	CLA	C5-C6-C7-C8
21	z	613	CLA	C10-C11-C12-C13
27	A	801	CL0	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
21	x	614	CLA	O1D-CGD-O2D-CED
21	A	842	CLA	O1A-CGA-O2A-C1
21	F	301	CLA	O1A-CGA-O2A-C1
21	A	828	CLA	C13-C15-C16-C17
21	A	844	CLA	C5-C6-C7-C8
20	y	606	CHL	O1D-CGD-O2D-CED
21	A	841	CLA	C5-C6-C7-C8
21	B	837	CLA	C5-C6-C7-C8
21	y	602	CLA	O1A-CGA-O2A-C1
21	A	803	CLA	O1D-CGD-O2D-CED
21	A	822	CLA	O1D-CGD-O2D-CED
21	B	823	CLA	O1D-CGD-O2D-CED
21	y	602	CLA	O1D-CGD-O2D-CED
21	A	828	CLA	C15-C16-C17-C18
21	L	303	CLA	C13-C15-C16-C17
21	B	820	CLA	CBA-CGA-O2A-C1
21	B	813	CLA	CBA-CGA-O2A-C1
20	z	608	CHL	O2A-C1-C2-C3
21	1	605	CLA	CBD-CGD-O2D-CED
21	A	839	CLA	CBD-CGD-O2D-CED
21	B	841	CLA	CBD-CGD-O2D-CED
21	2	608	CLA	O1D-CGD-O2D-CED
21	H	201	CLA	C8-C10-C11-C12
21	K	204	CLA	O1A-CGA-O2A-C1
21	A	804	CLA	C8-C10-C11-C12
21	B	822	CLA	C10-C11-C12-C13
21	B	832	CLA	C15-C16-C17-C18
21	A	830	CLA	C2A-CAA-CBA-CGA
21	y	604	CLA	O1D-CGD-O2D-CED
21	B	817	CLA	CBA-CGA-O2A-C1
21	B	841	CLA	CBA-CGA-O2A-C1
21	2	612	CLA	C10-C11-C12-C13
21	A	812	CLA	C8-C10-C11-C12
21	A	819	CLA	C5-C6-C7-C8
21	A	806	CLA	C8-C10-C11-C12
21	A	843	CLA	C8-C10-C11-C12
21	B	806	CLA	C5-C6-C7-C8
21	B	841	CLA	C8-C10-C11-C12
21	B	810	CLA	C5-C6-C7-C8
21	L	303	CLA	C10-C11-C12-C13
20	y	609	CHL	CBD-CGD-O2D-CED
20	y	607	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
21	O	201	CLA	O1D-CGD-O2D-CED
21	x	603	CLA	O1D-CGD-O2D-CED
21	A	842	CLA	C13-C15-C16-C17
21	B	817	CLA	C5-C6-C7-C8
21	B	825	CLA	C10-C11-C12-C13
21	x	603	CLA	C5-C6-C7-C8
21	y	602	CLA	C13-C15-C16-C17
21	y	614	CLA	C10-C11-C12-C13
21	3	603	CLA	O1D-CGD-O2D-CED
21	B	822	CLA	C8-C10-C11-C12
21	B	814	CLA	C5-C6-C7-C8
21	B	818	CLA	C8-C10-C11-C12
21	z	602	CLA	C5-C6-C7-C8
20	x	607	CHL	O1D-CGD-O2D-CED
21	A	814	CLA	O1D-CGD-O2D-CED
21	A	835	CLA	C10-C11-C12-C13
21	B	811	CLA	C5-C6-C7-C8
21	O	201	CLA	C5-C6-C7-C8
21	B	839	CLA	C14-C13-C15-C16
21	A	838	CLA	O1D-CGD-O2D-CED
21	A	813	CLA	CBA-CGA-O2A-C1
21	A	834	CLA	CBA-CGA-O2A-C1
21	B	816	CLA	C6-C7-C8-C10
22	2	617	XAT	C20-C13-C14-C15
24	3	613	LUT	C11-C10-C9-C19
25	A	852	BCR	C35-C13-C14-C15
25	F	304	BCR	C11-C10-C9-C34
25	K	205	BCR	C20-C21-C22-C37
21	A	845	CLA	CBD-CGD-O2D-CED
21	A	814	CLA	C13-C15-C16-C17
22	1	614	XAT	C11-C12-C13-C20
25	A	853	BCR	C11-C12-C13-C35
25	B	845	BCR	C36-C18-C19-C20
25	B	845	BCR	C37-C22-C23-C24
25	B	846	BCR	C7-C8-C9-C34
25	B	846	BCR	C37-C22-C23-C24
25	J	102	BCR	C7-C8-C9-C34
25	L	306	BCR	C37-C22-C23-C24
22	1	614	XAT	C11-C12-C13-C14
25	A	853	BCR	C11-C12-C13-C14
25	B	845	BCR	C17-C18-C19-C20
25	B	846	BCR	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
25	J	102	BCR	C7-C8-C9-C10
25	L	306	BCR	C21-C22-C23-C24
21	A	838	CLA	O1A-CGA-O2A-C1
21	A	845	CLA	O1A-CGA-O2A-C1
20	y	609	CHL	C2A-CAA-CBA-CGA
21	1	604	CLA	C2A-CAA-CBA-CGA
21	1	607	CLA	C2A-CAA-CBA-CGA
21	2	603	CLA	C2A-CAA-CBA-CGA
21	3	609	CLA	C2A-CAA-CBA-CGA
21	A	822	CLA	C2A-CAA-CBA-CGA
21	A	832	CLA	C2A-CAA-CBA-CGA
21	B	828	CLA	C2A-CAA-CBA-CGA
21	G	203	CLA	C2A-CAA-CBA-CGA
21	A	834	CLA	C13-C15-C16-C17
23	1	615	LHG	O1-C1-C2-C3
22	1	614	XAT	C9-C10-C11-C12
21	2	612	CLA	C16-C17-C18-C20
21	A	812	CLA	C16-C17-C18-C20
21	B	808	CLA	C16-C17-C18-C20
21	B	822	CLA	C16-C17-C18-C19
21	B	822	CLA	C16-C17-C18-C20
21	B	818	CLA	C11-C12-C13-C14
21	O	201	CLA	C16-C17-C18-C19
21	1	602	CLA	O1D-CGD-O2D-CED
21	A	823	CLA	O1D-CGD-O2D-CED
21	2	602	CLA	C3-C5-C6-C7
21	x	610	CLA	C3-C5-C6-C7
22	2	617	XAT	C11-C10-C9-C8
25	A	852	BCR	C12-C13-C14-C15
25	B	844	BCR	C16-C17-C18-C19
25	B	849	BCR	C11-C10-C9-C8
25	F	304	BCR	C11-C10-C9-C8
25	K	205	BCR	C20-C21-C22-C23
21	A	807	CLA	C5-C6-C7-C8
21	A	820	CLA	O1D-CGD-O2D-CED
21	B	840	CLA	O1D-CGD-O2D-CED
21	B	835	CLA	O1D-CGD-O2D-CED
21	B	834	CLA	O1D-CGD-O2D-CED
21	x	604	CLA	O1D-CGD-O2D-CED
20	x	605	CHL	CBA-CGA-O2A-C1
21	2	612	CLA	CBA-CGA-O2A-C1
23	1	615	LHG	C24-C23-O8-C6

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Mol	Chain	Res	Type	Atoms
21	z	613	CLA	C2C-C3C-CAC-CBC
21	2	612	CLA	C5-C6-C7-C8
21	4	608	CLA	CBD-CGD-O2D-CED
21	A	812	CLA	C2-C1-O2A-CGA
27	A	801	CL0	C2-C1-O2A-CGA
21	2	612	CLA	C16-C17-C18-C19
21	B	841	CLA	C16-C17-C18-C20
21	B	818	CLA	C11-C12-C13-C15
21	O	201	CLA	C16-C17-C18-C20
21	A	835	CLA	C4C-C3C-CAC-CBC
21	B	811	CLA	CBD-CGD-O2D-CED
23	1	615	LHG	C11-C12-C13-C14
30	B	850	DGD	C5B-C6B-C7B-C8B
21	B	820	CLA	O1A-CGA-O2A-C1
21	B	813	CLA	O1A-CGA-O2A-C1
30	B	850	DGD	C3B-C4B-C5B-C6B
21	B	802	CLA	C8-C10-C11-C12
21	1	604	CLA	C4B-C3B-CAB-CBB
21	2	603	CLA	C4B-C3B-CAB-CBB
21	A	803	CLA	C4B-C3B-CAB-CBB
21	A	844	CLA	C4B-C3B-CAB-CBB
21	B	808	CLA	C4B-C3B-CAB-CBB
21	B	836	CLA	C4B-C3B-CAB-CBB
21	B	819	CLA	C4B-C3B-CAB-CBB
21	B	827	CLA	C4B-C3B-CAB-CBB
21	B	803	CLA	C4B-C3B-CAB-CBB
21	F	302	CLA	C4B-C3B-CAB-CBB
21	y	612	CLA	C4B-C3B-CAB-CBB
21	z	611	CLA	C4B-C3B-CAB-CBB
23	B	852	LHG	C29-C30-C31-C32
21	B	824	CLA	C16-C17-C18-C19
21	J	101	CLA	O1D-CGD-O2D-CED
21	B	841	CLA	O1A-CGA-O2A-C1
21	2	611	CLA	C2A-CAA-CBA-CGA
21	3	601	CLA	C2A-CAA-CBA-CGA
21	B	817	CLA	C2A-CAA-CBA-CGA
21	A	820	CLA	C13-C15-C16-C17
21	A	806	CLA	C13-C15-C16-C17
21	B	837	CLA	C8-C10-C11-C12
21	B	839	CLA	C13-C15-C16-C17
21	B	841	CLA	C12-C13-C15-C16
21	y	602	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
21	A	825	CLA	CBA-CGA-O2A-C1
21	A	814	CLA	C10-C11-C12-C13
23	1	615	LHG	C29-C30-C31-C32
20	x	606	CHL	C3A-C2A-CAA-CBA
21	1	612	CLA	C3A-C2A-CAA-CBA
21	2	611	CLA	C3A-C2A-CAA-CBA
21	A	810	CLA	C3A-C2A-CAA-CBA
21	A	830	CLA	C3A-C2A-CAA-CBA
21	A	815	CLA	C3A-C2A-CAA-CBA
21	A	806	CLA	C3A-C2A-CAA-CBA
21	A	842	CLA	C3A-C2A-CAA-CBA
21	B	815	CLA	C3A-C2A-CAA-CBA
21	B	811	CLA	C3A-C2A-CAA-CBA
21	B	826	CLA	C3A-C2A-CAA-CBA
21	B	821	CLA	C3A-C2A-CAA-CBA
21	B	833	CLA	C3A-C2A-CAA-CBA
21	B	809	CLA	C3A-C2A-CAA-CBA
21	B	810	CLA	C3A-C2A-CAA-CBA
21	x	614	CLA	C3A-C2A-CAA-CBA
21	y	604	CLA	C3A-C2A-CAA-CBA
21	y	614	CLA	C3A-C2A-CAA-CBA
21	z	614	CLA	C3A-C2A-CAA-CBA
21	A	805	CLA	C2-C3-C5-C6
20	4	606	CHL	O1D-CGD-O2D-CED
21	A	817	CLA	O1D-CGD-O2D-CED
21	B	808	CLA	C16-C17-C18-C19
21	B	824	CLA	C16-C17-C18-C20
21	B	817	CLA	O1A-CGA-O2A-C1
21	A	835	CLA	CBD-CGD-O2D-CED
23	1	615	LHG	C33-C34-C35-C36
26	4	620	LMG	C7-C8-C9-O8
21	B	824	CLA	C3-C5-C6-C7
21	F	301	CLA	C8-C10-C11-C12
21	A	813	CLA	O1A-CGA-O2A-C1
21	A	836	CLA	O1D-CGD-O2D-CED
23	1	615	LHG	C26-C27-C28-C29
23	1	615	LHG	C13-C14-C15-C16
21	2	612	CLA	O1A-CGA-O2A-C1
21	A	834	CLA	O1A-CGA-O2A-C1
21	1	604	CLA	C2B-C3B-CAB-CBB
21	2	613	CLA	C2B-C3B-CAB-CBB
21	3	611	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
21	4	610	CLA	C2B-C3B-CAB-CBB
21	A	808	CLA	C2B-C3B-CAB-CBB
21	A	838	CLA	C2B-C3B-CAB-CBB
21	A	834	CLA	C2B-C3B-CAB-CBB
21	B	808	CLA	C2B-C3B-CAB-CBB
21	B	836	CLA	C2B-C3B-CAB-CBB
21	B	819	CLA	C2B-C3B-CAB-CBB
21	y	612	CLA	C2B-C3B-CAB-CBB
21	y	614	CLA	C2B-C3B-CAB-CBB
21	z	611	CLA	C2B-C3B-CAB-CBB
25	4	618	BCR	C23-C24-C25-C30
25	B	844	BCR	C23-C24-C25-C26
25	B	847	BCR	C1-C6-C7-C8
25	B	847	BCR	C5-C6-C7-C8
21	2	602	CLA	CBA-CGA-O2A-C1
21	A	835	CLA	C15-C16-C17-C18
21	x	602	CLA	C3-C5-C6-C7
21	B	813	CLA	O1D-CGD-O2D-CED
21	2	609	CLA	C2A-CAA-CBA-CGA
21	4	614	CLA	C2A-CAA-CBA-CGA
21	B	809	CLA	C2A-CAA-CBA-CGA
21	x	610	CLA	C5-C6-C7-C8
20	x	605	CHL	O1A-CGA-O2A-C1
23	1	615	LHG	O10-C23-O8-C6
21	B	818	CLA	C4-C3-C5-C6
21	B	813	CLA	C4-C3-C5-C6
30	B	850	DGD	CCA-CDA-CEA-CFA
25	B	849	BCR	C10-C11-C12-C13
25	K	205	BCR	C10-C11-C12-C13
21	A	812	CLA	C15-C16-C17-C18
21	y	614	CLA	C16-C17-C18-C20
30	B	850	DGD	C9A-CAA-CBA-CCA
21	B	832	CLA	CBA-CGA-O2A-C1
21	A	818	CLA	C6-C7-C8-C9
21	A	834	CLA	C11-C10-C8-C9
21	z	602	CLA	C14-C13-C15-C16
23	y	619	LHG	C9-C10-C11-C12
21	A	802	CLA	C15-C16-C17-C18
29	A	855	PQN	C25-C26-C27-C28
21	B	841	CLA	C16-C17-C18-C19
21	A	829	CLA	C8-C10-C11-C12
21	A	825	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
25	B	801	BCR	C7-C8-C9-C34
21	B	820	CLA	C2A-CAA-CBA-CGA
21	B	822	CLA	C2A-CAA-CBA-CGA
21	B	832	CLA	C2A-CAA-CBA-CGA
21	B	829	CLA	C11-C10-C8-C9
21	A	835	CLA	C16-C17-C18-C19
21	B	816	CLA	C6-C7-C8-C9
21	B	828	CLA	C16-C17-C18-C19
21	y	614	CLA	C16-C17-C18-C19
21	z	613	CLA	C4-C3-C5-C6
21	A	807	CLA	C10-C11-C12-C13
21	A	834	CLA	C3-C5-C6-C7
21	y	602	CLA	C3-C5-C6-C7
21	B	828	CLA	C13-C15-C16-C17
23	z	619	LHG	C23-C24-C25-C26
21	4	613	CLA	O1D-CGD-O2D-CED
21	A	829	CLA	C15-C16-C17-C18
21	A	812	CLA	C16-C17-C18-C19
21	A	811	CLA	C8-C10-C11-C12
21	A	829	CLA	C13-C15-C16-C17
21	z	614	CLA	C13-C15-C16-C17
21	B	809	CLA	C3-C5-C6-C7
21	B	822	CLA	CBA-CGA-O2A-C1
21	B	828	CLA	C16-C17-C18-C20
23	1	615	LHG	C5-C4-O6-P
23	z	619	LHG	C2-C3-O3-P
21	B	813	CLA	C2-C3-C5-C6
23	1	615	LHG	C1-C2-C3-O3
21	4	612	CLA	C2A-CAA-CBA-CGA
21	A	829	CLA	C2A-CAA-CBA-CGA
21	A	825	CLA	C2A-CAA-CBA-CGA
21	y	602	CLA	C2A-CAA-CBA-CGA
21	z	604	CLA	CBD-CGD-O2D-CED
26	4	619	LMG	O6-C5-C6-O5
20	z	605	CHL	O1D-CGD-O2D-CED
21	4	612	CLA	O1D-CGD-O2D-CED
21	K	203	CLA	O1D-CGD-O2D-CED
21	B	841	CLA	C13-C15-C16-C17
21	A	809	CLA	C16-C17-C18-C20
21	2	602	CLA	O1A-CGA-O2A-C1
21	B	832	CLA	O1A-CGA-O2A-C1
21	1	612	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	2	611	CLA	C1A-C2A-CAA-CBA
21	2	608	CLA	C1A-C2A-CAA-CBA
21	2	609	CLA	C1A-C2A-CAA-CBA
21	4	604	CLA	C1A-C2A-CAA-CBA
21	A	810	CLA	C1A-C2A-CAA-CBA
21	A	812	CLA	C1A-C2A-CAA-CBA
21	A	827	CLA	C1A-C2A-CAA-CBA
21	A	805	CLA	C1A-C2A-CAA-CBA
21	A	815	CLA	C1A-C2A-CAA-CBA
21	A	833	CLA	C1A-C2A-CAA-CBA
21	B	820	CLA	C1A-C2A-CAA-CBA
21	B	824	CLA	C1A-C2A-CAA-CBA
21	B	815	CLA	C1A-C2A-CAA-CBA
21	B	825	CLA	C1A-C2A-CAA-CBA
21	B	833	CLA	C1A-C2A-CAA-CBA
21	B	802	CLA	C1A-C2A-CAA-CBA
21	B	834	CLA	C1A-C2A-CAA-CBA
21	F	302	CLA	C1A-C2A-CAA-CBA
21	x	610	CLA	C1A-C2A-CAA-CBA
21	x	602	CLA	C1A-C2A-CAA-CBA
21	x	614	CLA	C1A-C2A-CAA-CBA
21	y	613	CLA	C1A-C2A-CAA-CBA
21	y	602	CLA	C1A-C2A-CAA-CBA
26	4	619	LMG	C30-C31-C32-C33
23	x	619	LHG	C12-C13-C14-C15
23	1	615	LHG	C23-C24-C25-C26
21	2	602	CLA	C6-C7-C8-C10
21	A	803	CLA	C6-C7-C8-C10
21	A	811	CLA	C11-C12-C13-C15
21	A	812	CLA	C12-C13-C15-C16
21	A	826	CLA	C11-C10-C8-C7
21	A	829	CLA	C11-C10-C8-C7
21	A	802	CLA	C11-C12-C13-C15
21	A	802	CLA	C12-C13-C15-C16
21	A	828	CLA	C11-C12-C13-C15
21	A	842	CLA	C11-C10-C8-C7
21	A	844	CLA	C12-C13-C15-C16
21	A	843	CLA	C6-C7-C8-C10
21	B	806	CLA	C6-C7-C8-C10
21	B	806	CLA	C11-C12-C13-C15
21	B	808	CLA	C11-C12-C13-C15
21	B	829	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
21	B	814	CLA	C11-C10-C8-C7
21	B	809	CLA	C12-C13-C15-C16
21	O	201	CLA	C11-C10-C8-C7
21	x	610	CLA	C11-C12-C13-C15
21	z	602	CLA	C11-C12-C13-C15
27	A	801	CL0	C12-C13-C15-C16
21	B	827	CLA	C10-C11-C12-C13
21	B	805	CLA	C5-C6-C7-C8
21	B	813	CLA	C15-C16-C17-C18
21	3	605	CLA	C3A-C2A-CAA-CBA
21	B	828	CLA	C4-C3-C5-C6
21	x	613	CLA	C4-C3-C5-C6
21	z	603	CLA	C4-C3-C5-C6
21	B	828	CLA	C2-C3-C5-C6
21	A	804	CLA	C15-C16-C17-C18
21	B	806	CLA	C10-C11-C12-C13
21	z	602	CLA	C13-C15-C16-C17
20	y	607	CHL	C2A-CAA-CBA-CGA
21	3	603	CLA	C2A-CAA-CBA-CGA
21	3	602	CLA	C2A-CAA-CBA-CGA
21	4	604	CLA	C2A-CAA-CBA-CGA
21	A	818	CLA	C2A-CAA-CBA-CGA
21	A	806	CLA	C2A-CAA-CBA-CGA
21	A	811	CLA	C11-C12-C13-C14
21	A	812	CLA	C14-C13-C15-C16
21	A	802	CLA	C6-C7-C8-C9
21	A	802	CLA	C14-C13-C15-C16
21	A	814	CLA	C14-C13-C15-C16
21	B	806	CLA	C6-C7-C8-C9
21	B	806	CLA	C11-C12-C13-C14
21	B	817	CLA	C6-C7-C8-C9
21	B	829	CLA	C6-C7-C8-C9
21	B	841	CLA	C11-C10-C8-C9
21	B	827	CLA	C14-C13-C15-C16
21	B	805	CLA	C6-C7-C8-C9
21	B	813	CLA	C11-C12-C13-C14
21	H	201	CLA	C11-C10-C8-C9
21	x	610	CLA	C11-C10-C8-C9
21	y	614	CLA	C14-C13-C15-C16
21	z	602	CLA	C11-C12-C13-C14
23	x	619	LHG	C25-C26-C27-C28
21	B	828	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	B	841	CLA	C15-C16-C17-C18
20	x	606	CHL	O1D-CGD-O2D-CED
23	1	615	LHG	C4-C5-C6-O8
26	4	620	LMG	O1-C7-C8-C9
30	B	850	DGD	C1G-C2G-C3G-O3G
21	B	834	CLA	C3-C5-C6-C7
21	A	829	CLA	C10-C11-C12-C13
21	A	828	CLA	C16-C17-C18-C19
21	A	828	CLA	C16-C17-C18-C20
21	B	819	CLA	C6-C7-C8-C9
23	A	847	LHG	C5-C6-O8-C23
26	4	620	LMG	C8-C9-O8-C28
21	y	611	CLA	O1D-CGD-O2D-CED
20	3	606	CHL	CHA-CBD-CGD-O1D
20	3	606	CHL	CHA-CBD-CGD-O2D
20	y	601	CHL	CHA-CBD-CGD-O1D
20	y	601	CHL	CHA-CBD-CGD-O2D
25	A	849	BCR	C20-C21-C22-C37
25	F	304	BCR	C35-C13-C14-C15
21	A	820	CLA	C8-C10-C11-C12
20	x	601	CHL	C2-C3-C5-C6
21	z	613	CLA	C2-C3-C5-C6
21	4	612	CLA	C5-C6-C7-C8
21	A	814	CLA	C15-C16-C17-C18
21	A	806	CLA	C15-C16-C17-C18
30	B	850	DGD	C6B-C7B-C8B-C9B
21	A	804	CLA	C5-C6-C7-C8
21	B	822	CLA	C13-C15-C16-C17
21	B	840	CLA	C5-C6-C7-C8
21	y	610	CLA	C8-C10-C11-C12
21	4	603	CLA	C2A-CAA-CBA-CGA
21	A	812	CLA	CBA-CGA-O2A-C1
23	2	618	LHG	C6-C5-O7-C7
24	2	616	LUT	C10-C11-C12-C13
21	3	601	CLA	C10-C11-C12-C13
21	A	807	CLA	C8-C10-C11-C12
21	B	805	CLA	C8-C10-C11-C12
21	O	201	CLA	C8-C10-C11-C12
30	B	850	DGD	CEB-CFB-CGB-CHB
21	A	809	CLA	C16-C17-C18-C19
23	1	615	LHG	C7-C8-C9-C10
21	1	609	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
22	2	617	XAT	C12-C13-C14-C15
25	F	304	BCR	C22-C23-C24-C25
21	A	803	CLA	C8-C10-C11-C12
21	3	602	CLA	C4-C3-C5-C6
21	x	613	CLA	C2-C3-C5-C6
21	z	603	CLA	C2-C3-C5-C6
30	B	850	DGD	CCB-CDB-CEB-CFB
21	3	602	CLA	C6-C7-C8-C10
27	A	801	CL0	C16-C17-C18-C19
23	1	615	LHG	O8-C23-C24-C25
21	J	101	CLA	C2A-CAA-CBA-CGA
23	1	615	LHG	C14-C15-C16-C17
21	B	822	CLA	O1A-CGA-O2A-C1
21	B	828	CLA	O1A-CGA-O2A-C1
21	A	830	CLA	C2C-C3C-CAC-CBC
21	y	603	CLA	C5-C6-C7-C8
21	z	613	CLA	C4C-C3C-CAC-CBC
21	4	602	CLA	C10-C11-C12-C13
21	B	826	CLA	C8-C10-C11-C12
21	1	605	CLA	O1D-CGD-O2D-CED
21	A	825	CLA	O1D-CGD-O2D-CED
21	y	610	CLA	C10-C11-C12-C13
20	x	601	CHL	C4-C3-C5-C6
21	3	601	CLA	C8-C10-C11-C12
21	B	802	CLA	C5-C6-C7-C8
21	A	806	CLA	C14-C13-C15-C16
21	A	842	CLA	C11-C10-C8-C9
21	A	844	CLA	C14-C13-C15-C16
21	A	835	CLA	C11-C12-C13-C14
21	A	843	CLA	C6-C7-C8-C9
21	B	808	CLA	C11-C12-C13-C14
21	B	824	CLA	C14-C13-C15-C16
21	B	814	CLA	C11-C12-C13-C14
21	B	809	CLA	C14-C13-C15-C16
21	y	610	CLA	C11-C10-C8-C9
21	y	602	CLA	C11-C12-C13-C14
21	z	614	CLA	C11-C10-C8-C9
27	A	801	CL0	C14-C13-C15-C16
21	3	611	CLA	C4B-C3B-CAB-CBB
21	4	609	CLA	C4B-C3B-CAB-CBB
21	A	829	CLA	C4B-C3B-CAB-CBB
21	A	818	CLA	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
21	A	804	CLA	C4B-C3B-CAB-CBB
21	A	838	CLA	C4B-C3B-CAB-CBB
21	A	835	CLA	C4B-C3B-CAB-CBB
21	A	836	CLA	C4B-C3B-CAB-CBB
21	B	839	CLA	C4B-C3B-CAB-CBB
21	x	612	CLA	C4B-C3B-CAB-CBB
21	z	614	CLA	C4B-C3B-CAB-CBB
21	1	603	CLA	C6-C7-C8-C9
21	A	811	CLA	C10-C11-C12-C13
21	A	818	CLA	C5-C6-C7-C8
26	4	620	LMG	C2-C1-O1-C7
23	B	852	LHG	C12-C13-C14-C15
21	2	612	CLA	C12-C13-C15-C16
21	A	811	CLA	C11-C10-C8-C7
21	A	831	CLA	C11-C12-C13-C15
21	A	809	CLA	C11-C10-C8-C7
21	A	802	CLA	C6-C7-C8-C10
21	A	814	CLA	C12-C13-C15-C16
21	A	819	CLA	C6-C7-C8-C10
21	A	806	CLA	C12-C13-C15-C16
21	A	835	CLA	C11-C12-C13-C15
21	B	808	CLA	C6-C7-C8-C10
21	B	828	CLA	C6-C7-C8-C10
21	B	824	CLA	C12-C13-C15-C16
21	B	840	CLA	C12-C13-C15-C16
21	B	841	CLA	C11-C10-C8-C7
21	B	825	CLA	C12-C13-C15-C16
21	B	814	CLA	C11-C12-C13-C15
21	B	818	CLA	C11-C10-C8-C7
21	B	827	CLA	C12-C13-C15-C16
21	B	802	CLA	C11-C12-C13-C15
21	B	813	CLA	C11-C12-C13-C15
21	H	201	CLA	C6-C7-C8-C10
21	H	201	CLA	C11-C10-C8-C7
21	L	303	CLA	C11-C12-C13-C15
21	x	610	CLA	C11-C10-C8-C7
21	x	603	CLA	C6-C7-C8-C10
21	y	610	CLA	C11-C10-C8-C7
21	y	602	CLA	C11-C10-C8-C7
21	y	614	CLA	C11-C12-C13-C15
21	y	614	CLA	C12-C13-C15-C16
21	z	614	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
29	B	842	PQN	C22-C23-C25-C26
21	z	602	CLA	C10-C11-C12-C13
20	x	609	CHL	C3A-C2A-CAA-CBA
20	z	601	CHL	C3A-C2A-CAA-CBA
21	3	601	CLA	C4-C3-C5-C6
21	A	803	CLA	C3A-C2A-CAA-CBA
21	A	803	CLA	C4-C3-C5-C6
21	A	833	CLA	C3A-C2A-CAA-CBA
21	A	836	CLA	C3A-C2A-CAA-CBA
21	B	834	CLA	C3A-C2A-CAA-CBA
21	K	204	CLA	C3A-C2A-CAA-CBA
21	K	203	CLA	C3A-C2A-CAA-CBA
27	A	801	CL0	C3A-C2A-CAA-CBA
21	3	601	CLA	C2-C3-C5-C6
21	B	817	CLA	C11-C12-C13-C14
21	A	812	CLA	O1A-CGA-O2A-C1
21	4	608	CLA	O1D-CGD-O2D-CED
23	B	852	LHG	C4-C5-C6-O8
21	B	802	CLA	C15-C16-C17-C18
21	B	829	CLA	CBA-CGA-O2A-C1
21	y	603	CLA	C2-C3-C5-C6
20	y	609	CHL	O1D-CGD-O2D-CED
21	A	839	CLA	O1D-CGD-O2D-CED
23	B	852	LHG	O6-C4-C5-O7
21	B	841	CLA	O1D-CGD-O2D-CED
21	A	836	CLA	C2B-C3B-CAB-CBB
21	B	839	CLA	C2B-C3B-CAB-CBB
21	x	612	CLA	C2B-C3B-CAB-CBB
21	z	614	CLA	C2B-C3B-CAB-CBB
25	4	618	BCR	C5-C6-C7-C8
25	A	853	BCR	C1-C6-C7-C8
25	A	853	BCR	C5-C6-C7-C8
25	A	852	BCR	C5-C6-C7-C8
25	B	844	BCR	C23-C24-C25-C30
25	B	845	BCR	C1-C6-C7-C8
25	B	845	BCR	C5-C6-C7-C8
25	B	849	BCR	C23-C24-C25-C26
25	F	304	BCR	C1-C6-C7-C8
25	F	304	BCR	C5-C6-C7-C8
25	G	204	BCR	C23-C24-C25-C26
20	z	607	CHL	CBA-CGA-O2A-C1
23	2	618	LHG	C2-C3-O3-P

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Mol	Chain	Res	Type	Atoms
21	A	835	CLA	O1D-CGD-O2D-CED
27	A	801	CL0	C16-C17-C18-C20
21	A	812	CLA	C2A-CAA-CBA-CGA
21	A	810	CLA	CBD-CGD-O2D-CED
21	A	835	CLA	C4-C3-C5-C6
21	y	603	CLA	C4-C3-C5-C6
21	A	826	CLA	C15-C16-C17-C18
21	A	835	CLA	C2-C3-C5-C6
21	B	811	CLA	O1D-CGD-O2D-CED
21	A	835	CLA	C16-C17-C18-C20
21	B	806	CLA	C16-C17-C18-C19
21	2	612	CLA	C14-C13-C15-C16
21	A	809	CLA	C11-C10-C8-C9
21	B	841	CLA	C11-C12-C13-C14
21	B	825	CLA	C11-C10-C8-C9
21	B	818	CLA	C11-C10-C8-C9
21	x	602	CLA	C14-C13-C15-C16
21	y	614	CLA	C6-C7-C8-C9
21	A	841	CLA	CAA-CBA-CGA-O2A
24	y	615	LUT	C6-C7-C8-C9
25	B	801	BCR	C6-C7-C8-C9
25	B	849	BCR	C6-C7-C8-C9
26	4	619	LMG	C2-C1-O1-C7
21	A	845	CLA	O1D-CGD-O2D-CED
21	B	826	CLA	C2A-CAA-CBA-CGA
25	B	844	BCR	C15-C16-C17-C18
21	3	602	CLA	C6-C7-C8-C9
21	A	822	CLA	C15-C16-C17-C18
23	x	619	LHG	C9-C10-C11-C12
24	2	616	LUT	C11-C10-C9-C19
25	3	614	BCR	C20-C21-C22-C37
25	B	849	BCR	C20-C21-C22-C37
21	A	830	CLA	C3-C5-C6-C7
21	A	832	CLA	CBA-CGA-O2A-C1
23	1	615	LHG	O6-C4-C5-C6
21	B	832	CLA	C2C-C3C-CAC-CBC
21	A	818	CLA	C8-C10-C11-C12
21	2	602	CLA	C12-C13-C15-C16
21	2	612	CLA	C11-C12-C13-C15
21	3	601	CLA	C6-C7-C8-C10
21	A	820	CLA	C11-C10-C8-C7
21	A	841	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
21	B	822	CLA	C12-C13-C15-C16
21	B	817	CLA	C6-C7-C8-C10
21	B	809	CLA	C6-C7-C8-C10
21	B	805	CLA	C11-C10-C8-C7
21	z	603	CLA	C6-C7-C8-C10
23	A	846	LHG	C27-C28-C29-C30
21	z	613	CLA	C8-C10-C11-C12
21	A	802	CLA	C2A-CAA-CBA-CGA
21	z	613	CLA	C2A-CAA-CBA-CGA
21	A	829	CLA	C16-C17-C18-C20
21	B	819	CLA	C6-C7-C8-C10
21	x	603	CLA	C11-C12-C13-C14
21	A	803	CLA	C2-C3-C5-C6
21	B	818	CLA	C2-C3-C5-C6
21	B	818	CLA	CBD-CGD-O2D-CED
23	B	851	LHG	C4-C5-O7-C7
21	4	608	CLA	C2C-C3C-CAC-CBC
21	B	829	CLA	O1A-CGA-O2A-C1
21	B	827	CLA	C8-C10-C11-C12
25	F	304	BCR	C12-C13-C14-C15
23	1	615	LHG	O6-C4-C5-O7
21	A	819	CLA	CBD-CGD-O2D-CED
21	B	809	CLA	C15-C16-C17-C18
21	B	806	CLA	C16-C17-C18-C20
21	z	604	CLA	O1D-CGD-O2D-CED
20	z	607	CHL	O1A-CGA-O2A-C1
21	B	827	CLA	C4-C3-C5-C6
20	y	609	CHL	C3-C5-C6-C7
21	x	604	CLA	C3-C5-C6-C7
21	A	812	CLA	C3-C5-C6-C7
26	4	620	LMG	O1-C7-C8-O7
21	3	601	CLA	C6-C7-C8-C9
21	B	827	CLA	C11-C12-C13-C14
21	B	814	CLA	C16-C17-C18-C20
21	A	832	CLA	O1A-CGA-O2A-C1
21	B	827	CLA	C15-C16-C17-C18
24	1	616	LUT	C26-C27-C28-C29
24	3	613	LUT	C26-C27-C28-C29
21	B	803	CLA	C13-C15-C16-C17
21	B	827	CLA	C2-C1-O2A-CGA
23	B	852	LHG	C5-C4-O6-P
21	A	807	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
21	3	601	CLA	C11-C12-C13-C14
21	B	809	CLA	C16-C17-C18-C20
25	F	304	BCR	C14-C15-C16-C17
20	x	609	CHL	C4C-C3C-CAC-CBC
20	y	609	CHL	C4C-C3C-CAC-CBC
23	y	619	LHG	C26-C27-C28-C29
25	F	304	BCR	C10-C11-C12-C13
21	4	612	CLA	CBA-CGA-O2A-C1
21	A	829	CLA	C16-C17-C18-C19
23	1	615	LHG	O1-C1-C2-O2
21	1	607	CLA	C4B-C3B-CAB-CBB
21	1	611	CLA	C4B-C3B-CAB-CBB
21	1	612	CLA	C4B-C3B-CAB-CBB
21	3	610	CLA	C4B-C3B-CAB-CBB
21	3	604	CLA	C4B-C3B-CAB-CBB
21	3	612	CLA	C4B-C3B-CAB-CBB
21	3	602	CLA	C4B-C3B-CAB-CBB
21	4	608	CLA	C4B-C3B-CAB-CBB
21	4	611	CLA	C4B-C3B-CAB-CBB
21	4	614	CLA	C4B-C3B-CAB-CBB
21	A	824	CLA	C4B-C3B-CAB-CBB
21	A	825	CLA	C4B-C3B-CAB-CBB
21	A	819	CLA	C4B-C3B-CAB-CBB
21	A	837	CLA	C4B-C3B-CAB-CBB
21	B	817	CLA	C4B-C3B-CAB-CBB
21	B	823	CLA	C4B-C3B-CAB-CBB
21	B	835	CLA	C4B-C3B-CAB-CBB
21	B	810	CLA	C4B-C3B-CAB-CBB
21	B	834	CLA	C4B-C3B-CAB-CBB
21	F	303	CLA	C4B-C3B-CAB-CBB
21	G	201	CLA	C4B-C3B-CAB-CBB
21	H	201	CLA	C4B-C3B-CAB-CBB
21	J	101	CLA	C4B-C3B-CAB-CBB
21	K	201	CLA	C4B-C3B-CAB-CBB
21	K	204	CLA	C4B-C3B-CAB-CBB
21	L	304	CLA	C4B-C3B-CAB-CBB
21	O	201	CLA	C4B-C3B-CAB-CBB
21	y	603	CLA	C4B-C3B-CAB-CBB
21	y	613	CLA	C4B-C3B-CAB-CBB
21	z	612	CLA	C4B-C3B-CAB-CBB
25	A	851	BCR	C6-C7-C8-C9
25	B	846	BCR	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
21	A	814	CLA	C2A-CAA-CBA-CGA
21	O	201	CLA	C2A-CAA-CBA-CGA
21	2	613	CLA	C2A-CAA-CBA-CGA
21	A	838	CLA	C2-C3-C5-C6
21	z	604	CLA	C2-C3-C5-C6
21	4	612	CLA	C6-C7-C8-C10
21	A	829	CLA	C6-C7-C8-C10
21	A	804	CLA	C11-C12-C13-C15
21	B	808	CLA	C12-C13-C15-C16
21	B	828	CLA	C12-C13-C15-C16
21	B	840	CLA	C6-C7-C8-C10
21	B	814	CLA	C6-C7-C8-C10
29	B	842	PQN	C16-C17-C18-C20
21	A	819	CLA	CAA-CBA-CGA-O2A
21	1	603	CLA	C5-C6-C7-C8
21	4	612	CLA	O1A-CGA-O2A-C1
20	z	607	CHL	C3A-C2A-CAA-CBA
21	3	601	CLA	C11-C12-C13-C15
21	A	844	CLA	C16-C17-C18-C20
21	B	828	CLA	C15-C16-C17-C18
21	2	602	CLA	C14-C13-C15-C16
21	A	804	CLA	C6-C7-C8-C9
21	B	822	CLA	C14-C13-C15-C16
21	z	603	CLA	C6-C7-C8-C9
21	A	814	CLA	CAA-CBA-CGA-O2A
25	B	844	BCR	C13-C14-C15-C16
21	B	816	CLA	C5-C6-C7-C8
20	1	601	CHL	CAD-CBD-CGD-O1D
21	1	604	CLA	C1-C2-C3-C4
21	3	609	CLA	CAD-CBD-CGD-O1D
21	y	614	CLA	C3-C5-C6-C7
23	B	852	LHG	O7-C5-C6-O8
26	4	620	LMG	O7-C8-C9-O8
21	A	807	CLA	C2-C3-C5-C6
20	4	605	CHL	C1A-C2A-CAA-CBA
21	4	613	CLA	CAD-CBD-CGD-O2D
21	B	822	CLA	CAD-CBD-CGD-O2D
21	F	302	CLA	CAD-CBD-CGD-O2D
21	y	604	CLA	CAD-CBD-CGD-O2D
21	4	601	CLA	CBD-CGD-O2D-CED
20	y	608	CHL	C2A-CAA-CBA-CGA
21	A	839	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
21	x	613	CLA	C2A-CAA-CBA-CGA
20	2	607	CHL	CHA-CBD-CGD-O1D
20	2	607	CHL	CHA-CBD-CGD-O2D
20	4	605	CHL	CHA-CBD-CGD-O2D
20	4	605	CHL	CAD-CBD-CGD-O2D
20	4	606	CHL	CHA-CBD-CGD-O2D
21	2	602	CLA	CHA-CBD-CGD-O1D
21	3	607	CLA	CHA-CBD-CGD-O1D
21	3	609	CLA	CAD-CBD-CGD-O2D
21	4	613	CLA	CAD-CBD-CGD-O1D
21	A	806	CLA	CAD-CBD-CGD-O1D
21	A	832	CLA	CHA-CBD-CGD-O1D
21	A	832	CLA	CHA-CBD-CGD-O2D
21	B	822	CLA	CAD-CBD-CGD-O1D
21	B	811	CLA	CHA-CBD-CGD-O1D
21	B	836	CLA	CHA-CBD-CGD-O1D
21	B	836	CLA	CHA-CBD-CGD-O2D
21	F	302	CLA	CAD-CBD-CGD-O1D
21	y	604	CLA	CAD-CBD-CGD-O1D
23	B	852	LHG	C3-O3-P-O5
23	y	619	LHG	C3-O3-P-O5
21	B	808	CLA	CBD-CGD-O2D-CED
21	1	607	CLA	C2B-C3B-CAB-CBB
21	1	612	CLA	C2B-C3B-CAB-CBB
21	3	610	CLA	C2B-C3B-CAB-CBB
21	3	604	CLA	C2B-C3B-CAB-CBB
21	3	612	CLA	C2B-C3B-CAB-CBB
21	4	608	CLA	C2B-C3B-CAB-CBB
21	4	611	CLA	C2B-C3B-CAB-CBB
21	4	614	CLA	C2B-C3B-CAB-CBB
21	A	803	CLA	C2B-C3B-CAB-CBB
21	A	825	CLA	C2B-C3B-CAB-CBB
21	B	817	CLA	C2B-C3B-CAB-CBB
21	B	835	CLA	C2B-C3B-CAB-CBB
21	B	827	CLA	C2B-C3B-CAB-CBB
21	F	302	CLA	C2B-C3B-CAB-CBB
21	F	303	CLA	C2B-C3B-CAB-CBB
21	H	201	CLA	C2B-C3B-CAB-CBB
21	J	101	CLA	C2B-C3B-CAB-CBB
21	K	201	CLA	C2B-C3B-CAB-CBB
21	y	603	CLA	C2B-C3B-CAB-CBB
21	y	613	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
25	G	204	BCR	C5-C6-C7-C8
21	B	831	CLA	CBD-CGD-O2D-CED
21	B	827	CLA	C2-C3-C5-C6
23	2	618	LHG	C5-C4-O6-P
25	A	849	BCR	C37-C22-C23-C24
21	x	603	CLA	C11-C12-C13-C15
21	A	827	CLA	CBD-CGD-O2D-CED
20	1	601	CHL	C2A-CAA-CBA-CGA
21	A	842	CLA	C2C-C3C-CAC-CBC
25	A	852	BCR	C10-C11-C12-C13
25	B	844	BCR	C18-C19-C20-C21
25	L	301	BCR	C18-C19-C20-C21
21	A	819	CLA	C8-C10-C11-C12
22	1	614	XAT	C13-C14-C15-C35
21	A	811	CLA	C11-C10-C8-C9
21	A	831	CLA	C11-C12-C13-C14
21	B	828	CLA	C6-C7-C8-C9
21	B	805	CLA	C14-C13-C15-C16
21	B	810	CLA	C11-C12-C13-C14
21	y	602	CLA	C11-C10-C8-C9
21	z	613	CLA	C6-C7-C8-C9
29	B	842	PQN	C24-C23-C25-C26
21	A	818	CLA	C11-C10-C8-C7
21	A	843	CLA	C11-C12-C13-C15
21	B	827	CLA	C11-C10-C8-C7
21	F	301	CLA	C6-C7-C8-C10
25	L	301	BCR	C11-C10-C9-C8
21	4	601	CLA	O1D-CGD-O2D-CED
21	A	802	CLA	C4-C3-C5-C6
21	3	602	CLA	C2-C3-C5-C6
21	A	844	CLA	C16-C17-C18-C19
21	A	819	CLA	O1D-CGD-O2D-CED
21	A	810	CLA	O1D-CGD-O2D-CED
22	2	617	XAT	C29-C30-C31-C32
21	z	604	CLA	C2C-C3C-CAC-CBC
21	A	814	CLA	C16-C17-C18-C20
26	4	619	LMG	C29-C28-O8-C9
21	4	608	CLA	C4C-C3C-CAC-CBC
23	x	619	LHG	C29-C30-C31-C32
23	1	615	LHG	C15-C16-C17-C18
21	A	819	CLA	C11-C12-C13-C14
21	B	831	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
23	y	619	LHG	C27-C28-C29-C30
21	B	816	CLA	C2C-C3C-CAC-CBC
21	A	803	CLA	C2A-CAA-CBA-CGA
21	A	813	CLA	C2A-CAA-CBA-CGA
21	A	819	CLA	C2A-CAA-CBA-CGA
21	B	807	CLA	C2A-CAA-CBA-CGA
21	z	614	CLA	C2A-CAA-CBA-CGA
21	A	830	CLA	C16-C17-C18-C19
21	A	804	CLA	C14-C13-C15-C16
21	B	841	CLA	C14-C13-C15-C16
21	B	810	CLA	C6-C7-C8-C9
21	B	807	CLA	CBA-CGA-O2A-C1
20	2	615	CHL	O1D-CGD-O2D-CED
21	A	845	CLA	C4B-C3B-CAB-CBB
21	B	841	CLA	C4-C3-C5-C6
21	B	810	CLA	C4-C3-C5-C6
21	3	601	CLA	C11-C10-C8-C7
21	A	803	CLA	C11-C12-C13-C15
21	A	804	CLA	C12-C13-C15-C16
21	B	803	CLA	C11-C10-C8-C7
21	B	807	CLA	O1A-CGA-O2A-C1
20	2	601	CHL	C3A-C2A-CAA-CBA
21	3	607	CLA	C3A-C2A-CAA-CBA
21	A	822	CLA	C3A-C2A-CAA-CBA
21	A	843	CLA	C3A-C2A-CAA-CBA
21	B	832	CLA	C3A-C2A-CAA-CBA
21	B	818	CLA	O1D-CGD-O2D-CED
25	4	618	BCR	C20-C21-C22-C37
25	A	852	BCR	C11-C10-C9-C34
25	K	202	BCR	C16-C17-C18-C36
25	L	301	BCR	C11-C10-C9-C34
25	L	305	BCR	C16-C17-C18-C36
31	y	618	NEX	C39-C29-C30-C31
21	x	613	CLA	C11-C12-C13-C14
21	3	602	CLA	C2-C1-O2A-CGA
25	A	852	BCR	C13-C14-C15-C16
21	A	803	CLA	C10-C11-C12-C13
21	B	826	CLA	C5-C6-C7-C8
23	x	619	LHG	C16-C17-C18-C19
21	A	838	CLA	C4-C3-C5-C6
21	z	604	CLA	C4-C3-C5-C6
21	B	802	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
21	2	612	CLA	C2A-CAA-CBA-CGA
21	B	816	CLA	C2A-CAA-CBA-CGA
21	A	842	CLA	C4C-C3C-CAC-CBC
21	1	607	CLA	CAA-CBA-CGA-O1A
21	A	803	CLA	C11-C12-C13-C14
21	A	829	CLA	C6-C7-C8-C9
21	A	802	CLA	C11-C10-C8-C9
21	B	806	CLA	C11-C10-C8-C9
21	z	602	CLA	C11-C10-C8-C9
21	z	614	CLA	C14-C13-C15-C16
21	B	837	CLA	C16-C17-C18-C20
23	1	615	LHG	O10-C23-C24-C25
21	L	303	CLA	C15-C16-C17-C18
21	A	804	CLA	CAA-CBA-CGA-O2A
20	4	607	CHL	C1A-C2A-CAA-CBA
20	x	606	CHL	C1A-C2A-CAA-CBA
20	x	605	CHL	C1A-C2A-CAA-CBA
21	B	837	CLA	C15-C16-C17-C18
21	x	612	CLA	CAA-CBA-CGA-O2A
20	2	615	CHL	CBD-CGD-O2D-CED
30	B	850	DGD	CBB-CCB-CDB-CEB
21	B	837	CLA	C3-C5-C6-C7
20	x	605	CHL	C2A-CAA-CBA-CGA
21	1	603	CLA	C2A-CAA-CBA-CGA
21	2	602	CLA	C2A-CAA-CBA-CGA
21	4	601	CLA	CAA-CBA-CGA-O2A
21	A	803	CLA	C1A-C2A-CAA-CBA
21	A	843	CLA	C1A-C2A-CAA-CBA
21	B	832	CLA	C1A-C2A-CAA-CBA
21	K	204	CLA	C1A-C2A-CAA-CBA
24	2	616	LUT	C11-C10-C9-C8
24	3	613	LUT	C11-C10-C9-C8
25	A	852	BCR	C11-C10-C9-C8
25	K	202	BCR	C16-C17-C18-C19
25	L	305	BCR	C16-C17-C18-C19
31	y	618	NEX	C28-C29-C30-C31
20	2	606	CHL	O1D-CGD-O2D-CED
21	2	608	CLA	CAA-CBA-CGA-O1A
21	4	604	CLA	CAA-CBA-CGA-O1A
21	1	611	CLA	C2B-C3B-CAB-CBB
21	2	603	CLA	C2B-C3B-CAB-CBB
21	3	602	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
21	4	609	CLA	C2B-C3B-CAB-CBB
21	A	818	CLA	C2B-C3B-CAB-CBB
21	A	824	CLA	C2B-C3B-CAB-CBB
21	A	819	CLA	C2B-C3B-CAB-CBB
21	A	832	CLA	C2B-C3B-CAB-CBB
21	A	844	CLA	C2B-C3B-CAB-CBB
21	A	835	CLA	C2B-C3B-CAB-CBB
21	A	837	CLA	C2B-C3B-CAB-CBB
21	A	845	CLA	C2B-C3B-CAB-CBB
21	B	823	CLA	C2B-C3B-CAB-CBB
21	B	810	CLA	C2B-C3B-CAB-CBB
21	B	834	CLA	C2B-C3B-CAB-CBB
21	B	803	CLA	C2B-C3B-CAB-CBB
21	G	201	CLA	C2B-C3B-CAB-CBB
21	K	204	CLA	C2B-C3B-CAB-CBB
21	K	206	CLA	C2B-C3B-CAB-CBB
21	L	304	CLA	C2B-C3B-CAB-CBB
21	O	201	CLA	C2B-C3B-CAB-CBB
21	z	612	CLA	C2B-C3B-CAB-CBB
25	3	614	BCR	C23-C24-C25-C26
25	4	618	BCR	C1-C6-C7-C8
25	A	852	BCR	C1-C6-C7-C8
25	L	306	BCR	C5-C6-C7-C8
21	K	203	CLA	CAA-CBA-CGA-O1A
21	4	603	CLA	CAA-CBA-CGA-O2A
21	z	604	CLA	C4C-C3C-CAC-CBC
20	y	607	CHL	C4-C3-C5-C6
21	B	811	CLA	C4-C3-C5-C6
21	3	603	CLA	CAA-CBA-CGA-O1A
22	1	614	XAT	C33-C34-C35-C15
21	A	811	CLA	C12-C13-C15-C16
21	A	812	CLA	C6-C7-C8-C10
21	A	826	CLA	C11-C12-C13-C15
21	A	835	CLA	C11-C10-C8-C7
27	A	801	CL0	C11-C10-C8-C7
21	1	602	CLA	C2A-CAA-CBA-CGA
21	A	845	CLA	C2A-CAA-CBA-CGA
21	z	603	CLA	C2A-CAA-CBA-CGA
21	1	607	CLA	CAA-CBA-CGA-O2A
23	z	619	LHG	C26-C27-C28-C29
21	A	835	CLA	C3-C5-C6-C7
21	2	608	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
21	4	603	CLA	CAA-CBA-CGA-O1A
21	A	843	CLA	C5-C6-C7-C8
20	x	608	CHL	O1D-CGD-O2D-CED
21	A	827	CLA	O1D-CGD-O2D-CED
21	B	829	CLA	C11-C10-C8-C7
21	4	604	CLA	CAA-CBA-CGA-O2A
21	1	602	CLA	C4-C3-C5-C6
21	B	841	CLA	C2-C3-C5-C6
21	B	810	CLA	C2-C3-C5-C6
21	B	808	CLA	O1D-CGD-O2D-CED
21	2	611	CLA	CAA-CBA-CGA-O1A
25	B	801	BCR	C7-C8-C9-C10
21	x	613	CLA	O1A-CGA-O2A-C1
21	x	613	CLA	C8-C10-C11-C12
21	A	830	CLA	C16-C17-C18-C20
21	3	603	CLA	CAA-CBA-CGA-O2A
21	K	203	CLA	CAA-CBA-CGA-O2A
21	x	613	CLA	CBA-CGA-O2A-C1
23	B	851	LHG	C26-C27-C28-C29
21	B	822	CLA	C4-C3-C5-C6
21	x	612	CLA	CAA-CBA-CGA-O1A
21	A	802	CLA	C2-C3-C5-C6
21	B	837	CLA	C16-C17-C18-C19
21	B	840	CLA	C16-C17-C18-C20
21	B	837	CLA	CBA-CGA-O2A-C1
21	2	611	CLA	CAA-CBA-CGA-O2A
21	4	610	CLA	C1A-C2A-CAA-CBA
21	1	612	CLA	C2A-CAA-CBA-CGA
21	A	815	CLA	C2A-CAA-CBA-CGA
23	B	852	LHG	C10-C11-C12-C13
21	4	602	CLA	C4-C3-C5-C6
21	A	820	CLA	C4-C3-C5-C6
21	1	611	CLA	CAA-CBA-CGA-O2A
21	B	822	CLA	C2-C3-C5-C6
21	A	832	CLA	C4B-C3B-CAB-CBB
21	B	806	CLA	C4B-C3B-CAB-CBB
21	B	830	CLA	C4B-C3B-CAB-CBB
21	K	206	CLA	C4B-C3B-CAB-CBB
21	B	837	CLA	O1A-CGA-O2A-C1
21	B	821	CLA	CAA-CBA-CGA-O2A
21	B	825	CLA	O1A-CGA-O2A-C1
21	B	832	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
20	4	606	CHL	CHA-CBD-CGD-O1D
20	z	605	CHL	CHA-CBD-CGD-O1D
20	z	605	CHL	CHA-CBD-CGD-O2D
24	2	619	LUT	C11-C10-C9-C19
25	4	618	BCR	C11-C10-C9-C34
25	A	851	BCR	C11-C10-C9-C34
25	A	851	BCR	C20-C21-C22-C37
25	B	844	BCR	C11-C10-C9-C34
25	B	845	BCR	C16-C17-C18-C36
31	x	618	NEX	C11-C10-C9-C19
31	z	618	NEX	C39-C29-C30-C31
21	A	807	CLA	O1A-CGA-O2A-C1
20	1	601	CHL	CAA-CBA-CGA-O2A
21	x	614	CLA	CAA-CBA-CGA-O2A
21	y	612	CLA	CAA-CBA-CGA-O2A
21	4	612	CLA	C8-C10-C11-C12
21	B	810	CLA	C15-C16-C17-C18
20	x	609	CHL	CAA-CBA-CGA-O2A
21	A	831	CLA	C12-C13-C15-C16
21	A	804	CLA	C11-C10-C8-C7
21	x	610	CLA	C6-C7-C8-C10
21	A	821	CLA	CAA-CBA-CGA-O2A
21	x	614	CLA	CAA-CBA-CGA-O1A
21	A	820	CLA	C6-C7-C8-C9
21	B	806	CLA	C14-C13-C15-C16
21	B	841	CLA	C6-C7-C8-C9
21	B	839	CLA	C6-C7-C8-C9
21	B	826	CLA	C10-C11-C12-C13
21	1	611	CLA	CAA-CBA-CGA-O1A
21	x	602	CLA	C13-C15-C16-C17
21	4	602	CLA	C2A-CAA-CBA-CGA
21	B	819	CLA	C2A-CAA-CBA-CGA
21	x	603	CLA	C2A-CAA-CBA-CGA
20	z	609	CHL	C2-C1-O2A-CGA
21	1	603	CLA	C2-C1-O2A-CGA
21	A	830	CLA	C2-C1-O2A-CGA
21	A	822	CLA	C2-C1-O2A-CGA
21	B	841	CLA	C2-C1-O2A-CGA
23	B	852	LHG	C11-C10-C9-C8
20	x	607	CHL	C3A-C2A-CAA-CBA
21	1	604	CLA	C3A-C2A-CAA-CBA
21	A	813	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	B	808	CLA	C4-C3-C5-C6
21	B	822	CLA	C3A-C2A-CAA-CBA
21	B	817	CLA	C3A-C2A-CAA-CBA
21	F	302	CLA	C3A-C2A-CAA-CBA
21	B	817	CLA	CAA-CBA-CGA-O2A
21	B	822	CLA	C3-C5-C6-C7
21	A	806	CLA	O1A-CGA-O2A-C1
21	x	611	CLA	CAA-CBA-CGA-O2A
21	A	806	CLA	CBA-CGA-O2A-C1
20	y	601	CHL	CAA-CBA-CGA-O2A
21	B	803	CLA	CAA-CBA-CGA-O2A
23	B	852	LHG	C11-C12-C13-C14
20	2	601	CHL	C3C-C2C-CMC-OMC
20	4	615	CHL	C3C-C2C-CMC-OMC
21	A	809	CLA	C2C-C3C-CAC-CBC
21	y	612	CLA	CAA-CBA-CGA-O1A
21	A	807	CLA	CBA-CGA-O2A-C1
21	A	831	CLA	C10-C11-C12-C13
22	1	614	XAT	O4-C6-C7-C8
24	2	619	LUT	C11-C10-C9-C8
25	A	851	BCR	C11-C10-C9-C8
25	A	851	BCR	C20-C21-C22-C23
25	B	844	BCR	C11-C10-C9-C8
25	B	845	BCR	C16-C17-C18-C19
31	x	618	NEX	C11-C10-C9-C8
31	z	618	NEX	C28-C29-C30-C31
21	x	611	CLA	CAA-CBA-CGA-O1A
20	4	607	CHL	CAA-CBA-CGA-O2A
21	y	611	CLA	CAA-CBA-CGA-O2A
21	B	814	CLA	C10-C11-C12-C13
21	A	841	CLA	CAA-CBA-CGA-O1A
21	G	203	CLA	CAA-CBA-CGA-O2A
21	2	612	CLA	C4-C3-C5-C6
21	y	611	CLA	C2A-CAA-CBA-CGA
26	4	619	LMG	O10-C28-O8-C9
21	3	601	CLA	CAA-CBA-CGA-O2A
23	y	619	LHG	O8-C23-C24-C25
21	B	832	CLA	C3-C5-C6-C7
21	B	814	CLA	C6-C7-C8-C9
21	y	602	CLA	C8-C10-C11-C12
20	4	607	CHL	CAA-CBA-CGA-O1A
21	B	805	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
21	B	803	CLA	C16-C17-C18-C20
20	x	609	CHL	CAA-CBA-CGA-O1A
21	A	821	CLA	CAA-CBA-CGA-O1A
21	G	203	CLA	CAA-CBA-CGA-O1A
21	B	825	CLA	CBA-CGA-O2A-C1
21	A	841	CLA	C2A-CAA-CBA-CGA
21	A	807	CLA	C11-C10-C8-C7
21	A	828	CLA	C11-C10-C8-C7
21	B	806	CLA	C12-C13-C15-C16
21	B	841	CLA	C6-C7-C8-C10
21	B	839	CLA	C6-C7-C8-C10
21	B	803	CLA	C6-C7-C8-C10
21	y	602	CLA	C12-C13-C15-C16
21	A	829	CLA	C2B-C3B-CAB-CBB
21	A	820	CLA	C2B-C3B-CAB-CBB
21	A	804	CLA	C2B-C3B-CAB-CBB
21	z	604	CLA	C2B-C3B-CAB-CBB
25	3	614	BCR	C23-C24-C25-C30
25	A	848	BCR	C1-C6-C7-C8
25	A	848	BCR	C5-C6-C7-C8
25	B	846	BCR	C1-C6-C7-C8
25	B	846	BCR	C5-C6-C7-C8
25	B	848	BCR	C23-C24-C25-C26
25	B	848	BCR	C23-C24-C25-C30
25	G	204	BCR	C1-C6-C7-C8
20	z	607	CHL	C2-C1-O2A-CGA
21	2	602	CLA	C2-C1-O2A-CGA
21	B	817	CLA	C2-C1-O2A-CGA
21	B	810	CLA	C2-C1-O2A-CGA
21	x	603	CLA	C2-C1-O2A-CGA
23	z	619	LHG	C24-C25-C26-C27
21	B	840	CLA	C16-C17-C18-C19
21	B	809	CLA	CAA-CBA-CGA-O2A
21	B	806	CLA	CAA-CBA-CGA-O2A
23	y	619	LHG	C30-C31-C32-C33
21	A	807	CLA	CAA-CBA-CGA-O2A
21	y	602	CLA	CAA-CBA-CGA-O2A
21	B	832	CLA	C16-C17-C18-C19
21	x	604	CLA	C4-C3-C5-C6
21	B	811	CLA	CAA-CBA-CGA-O2A
21	A	822	CLA	C2-C3-C5-C6
21	2	612	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
21	H	201	CLA	C10-C11-C12-C13
21	y	611	CLA	CAA-CBA-CGA-O1A
21	A	842	CLA	CAA-CBA-CGA-O2A
21	B	840	CLA	C15-C16-C17-C18
21	A	809	CLA	C4C-C3C-CAC-CBC
21	4	612	CLA	C11-C10-C8-C9
21	4	602	CLA	C6-C7-C8-C9
29	B	842	PQN	C16-C17-C18-C19
21	F	301	CLA	CAA-CBA-CGA-O2A
21	y	614	CLA	CAA-CBA-CGA-O2A
21	1	609	CLA	C1A-C2A-CAA-CBA
21	B	817	CLA	C1A-C2A-CAA-CBA
21	B	803	CLA	C1A-C2A-CAA-CBA
21	G	202	CLA	C4B-C3B-CAB-CBB
21	A	822	CLA	C4-C3-C5-C6
20	2	607	CHL	CAA-CBA-CGA-O2A
20	x	605	CHL	CAA-CBA-CGA-O2A
21	2	612	CLA	CAA-CBA-CGA-O2A
21	B	822	CLA	CAA-CBA-CGA-O2A
21	B	832	CLA	CAA-CBA-CGA-O2A
21	4	609	CLA	C5-C6-C7-C8
20	y	609	CHL	CAA-CBA-CGA-O2A
21	2	609	CLA	CAA-CBA-CGA-O2A
20	z	607	CHL	O1D-CGD-O2D-CED
21	A	826	CLA	C5-C6-C7-C8
23	B	852	LHG	O6-C4-C5-C6
21	F	302	CLA	C2-C3-C5-C6
21	1	602	CLA	C2-C1-O2A-CGA
21	A	803	CLA	C2-C1-O2A-CGA
21	B	825	CLA	C2-C1-O2A-CGA
21	B	802	CLA	C2-C1-O2A-CGA
21	A	831	CLA	C6-C7-C8-C10
21	2	602	CLA	C16-C17-C18-C19
26	4	619	LMG	C31-C32-C33-C34
23	z	619	LHG	C6-C5-O7-C7
21	A	815	CLA	CAA-CBA-CGA-O2A
21	A	826	CLA	CAA-CBA-CGA-O2A
21	O	201	CLA	CAA-CBA-CGA-O2A
21	A	820	CLA	C2A-CAA-CBA-CGA
21	A	844	CLA	C2A-CAA-CBA-CGA
23	1	615	LHG	C30-C31-C32-C33
20	2	607	CHL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
21	1	607	CLA	CHA-CBD-CGD-O1D
21	3	612	CLA	CHA-CBD-CGD-O1D
21	4	613	CLA	C3A-C2A-CAA-CBA
21	4	611	CLA	CHA-CBD-CGD-O1D
21	A	804	CLA	C3A-C2A-CAA-CBA
21	B	803	CLA	C3A-C2A-CAA-CBA
21	A	820	CLA	C15-C16-C17-C18
21	A	803	CLA	C16-C17-C18-C20
21	B	814	CLA	C16-C17-C18-C19
20	x	608	CHL	CBD-CGD-O2D-CED
25	A	849	BCR	C20-C21-C22-C23
23	B	852	LHG	C25-C26-C27-C28
21	y	602	CLA	CAA-CBA-CGA-O1A
23	y	619	LHG	O10-C23-C24-C25
21	B	839	CLA	CBA-CGA-O2A-C1
21	B	808	CLA	C5-C6-C7-C8
21	2	603	CLA	CAA-CBA-CGA-O2A
21	A	831	CLA	C14-C13-C15-C16
21	A	804	CLA	C11-C12-C13-C14
21	A	843	CLA	C11-C12-C13-C14
20	2	607	CHL	CAA-CBA-CGA-O1A
21	B	811	CLA	CAA-CBA-CGA-O1A
21	2	602	CLA	C8-C10-C11-C12
21	A	807	CLA	CAA-CBA-CGA-O1A
21	3	610	CLA	CAD-CBD-CGD-O1D
22	2	617	XAT	C1-C6-C7-C8
22	x	617	XAT	C1-C6-C7-C8
20	y	609	CHL	CAA-CBA-CGA-O1A
21	3	601	CLA	CAA-CBA-CGA-O1A
21	B	806	CLA	CAA-CBA-CGA-O1A
21	B	809	CLA	CAA-CBA-CGA-O1A
21	B	824	CLA	C13-C15-C16-C17
23	A	847	LHG	C24-C23-O8-C6
21	A	842	CLA	CAA-CBA-CGA-O1A
21	B	839	CLA	O1A-CGA-O2A-C1
21	y	610	CLA	C3-C5-C6-C7
21	A	840	CLA	CAA-CBA-CGA-O2A
21	z	610	CLA	C2A-CAA-CBA-CGA
21	B	802	CLA	C16-C17-C18-C20
21	A	819	CLA	CAA-CBA-CGA-O1A
21	B	832	CLA	CAA-CBA-CGA-O1A
21	F	301	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
21	y	614	CLA	CAA-CBA-CGA-O1A
21	2	612	CLA	C8-C10-C11-C12
21	A	830	CLA	C8-C10-C11-C12
21	1	602	CLA	C2-C3-C5-C6
21	B	811	CLA	C2-C3-C5-C6
21	z	610	CLA	CAA-CBA-CGA-O2A
20	x	605	CHL	CAA-CBA-CGA-O1A
21	2	612	CLA	CAA-CBA-CGA-O1A
21	B	822	CLA	CAA-CBA-CGA-O1A
21	O	201	CLA	CAA-CBA-CGA-O1A
21	B	809	CLA	C16-C17-C18-C19
21	1	608	CLA	CAD-CBD-CGD-O2D
21	2	611	CLA	CAD-CBD-CGD-O2D
21	3	608	CLA	CAD-CBD-CGD-O2D
21	4	603	CLA	CAD-CBD-CGD-O2D
21	A	802	CLA	CAD-CBD-CGD-O2D
21	A	834	CLA	CAD-CBD-CGD-O2D
21	K	203	CLA	CAD-CBD-CGD-O2D
21	B	809	CLA	C13-C15-C16-C17
21	A	820	CLA	C2-C1-O2A-CGA
21	3	602	CLA	CAA-CBA-CGA-O2A
20	z	601	CHL	C1A-C2A-CAA-CBA
20	z	607	CHL	C1A-C2A-CAA-CBA
27	A	801	CL0	C1A-C2A-CAA-CBA
26	4	619	LMG	C8-C9-O8-C28
23	x	619	LHG	C11-C12-C13-C14
23	z	619	LHG	C35-C36-C37-C38
21	A	815	CLA	CAA-CBA-CGA-O1A
21	A	802	CLA	CAA-CBA-CGA-O2A
21	B	820	CLA	CAA-CBA-CGA-O2A
21	B	824	CLA	CAA-CBA-CGA-O2A
21	2	609	CLA	CAA-CBA-CGA-O1A

There are no ring outliers.

222 monomers are involved in 694 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
20	x	605	CHL	3	0
21	B	832	CLA	5	0
21	A	825	CLA	2	0
21	B	802	CLA	10	0
21	3	609	CLA	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	x	603	CLA	1	0
20	2	601	CHL	1	0
21	A	823	CLA	3	0
27	A	801	CL0	14	0
25	A	849	BCR	2	0
21	B	823	CLA	2	0
21	A	841	CLA	4	0
21	2	612	CLA	3	0
25	K	205	BCR	5	0
21	1	611	CLA	1	0
21	A	840	CLA	1	0
24	y	615	LUT	2	0
24	x	616	LUT	2	0
20	x	608	CHL	1	0
21	H	201	CLA	4	0
20	x	601	CHL	12	0
21	2	609	CLA	10	0
21	z	614	CLA	6	0
25	K	202	BCR	5	0
20	2	605	CHL	5	0
20	y	606	CHL	2	0
21	A	844	CLA	3	0
21	G	201	CLA	2	0
20	y	607	CHL	4	0
21	A	833	CLA	2	0
21	B	836	CLA	2	0
23	1	615	LHG	12	0
21	2	603	CLA	1	0
21	3	602	CLA	1	0
25	A	853	BCR	9	0
25	B	847	BCR	2	0
25	L	305	BCR	7	0
21	L	303	CLA	3	0
21	A	806	CLA	4	0
20	4	607	CHL	1	0
20	y	605	CHL	1	0
21	A	820	CLA	6	0
25	A	851	BCR	6	0
21	B	816	CLA	1	0
22	1	614	XAT	12	0
21	1	604	CLA	3	0
25	I	101	BCR	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	A	846	LHG	7	0
21	B	839	CLA	1	0
20	4	605	CHL	2	0
21	2	602	CLA	8	0
21	A	815	CLA	1	0
20	x	609	CHL	4	0
21	B	827	CLA	3	0
21	2	611	CLA	1	0
20	x	607	CHL	8	0
21	2	608	CLA	3	0
21	z	613	CLA	3	0
21	A	802	CLA	6	0
22	2	617	XAT	4	0
25	J	102	BCR	5	0
21	A	830	CLA	6	0
21	4	601	CLA	2	0
28	C	102	SF4	2	0
21	A	814	CLA	1	0
21	B	826	CLA	2	0
21	y	603	CLA	3	0
21	A	839	CLA	1	0
21	A	805	CLA	1	0
21	F	302	CLA	7	0
21	B	805	CLA	7	0
24	z	615	LUT	2	0
21	3	612	CLA	2	0
25	4	618	BCR	6	0
21	A	818	CLA	6	0
21	A	803	CLA	8	0
21	1	609	CLA	9	0
21	A	804	CLA	8	0
21	B	841	CLA	1	0
21	B	819	CLA	2	0
21	L	302	CLA	4	0
21	A	822	CLA	2	0
21	A	845	CLA	3	0
21	B	803	CLA	5	0
30	B	850	DGD	5	0
21	4	609	CLA	6	0
23	x	619	LHG	3	0
25	B	843	BCR	6	0
21	J	101	CLA	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
25	B	801	BCR	9	0
20	2	615	CHL	3	0
21	A	811	CLA	3	0
21	4	610	CLA	1	0
21	x	614	CLA	1	0
25	L	306	BCR	5	0
25	B	844	BCR	6	0
22	4	617	XAT	6	0
25	B	845	BCR	9	0
25	G	204	BCR	4	0
21	A	835	CLA	4	0
21	A	824	CLA	2	0
21	B	811	CLA	2	0
31	y	618	NEX	4	0
21	A	842	CLA	6	0
25	B	849	BCR	7	0
23	2	618	LHG	2	0
25	A	848	BCR	3	0
24	x	615	LUT	1	0
21	2	613	CLA	2	0
20	4	615	CHL	2	0
21	B	814	CLA	5	0
21	x	610	CLA	5	0
21	3	603	CLA	2	0
23	y	619	LHG	5	0
21	4	613	CLA	2	0
21	B	818	CLA	4	0
21	y	604	CLA	2	0
21	z	610	CLA	1	0
21	A	831	CLA	3	0
21	B	837	CLA	2	0
21	B	833	CLA	1	0
20	x	606	CHL	2	0
23	A	847	LHG	1	0
21	y	610	CLA	16	0
20	z	606	CHL	1	0
21	1	607	CLA	2	0
21	B	809	CLA	3	0
20	z	607	CHL	2	0
28	C	101	SF4	2	0
23	B	851	LHG	3	0
21	A	813	CLA	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	z	602	CLA	3	0
20	y	608	CHL	6	0
21	A	812	CLA	6	0
21	B	806	CLA	4	0
20	y	601	CHL	10	0
21	A	838	CLA	1	0
21	B	820	CLA	1	0
21	B	825	CLA	3	0
20	z	609	CHL	3	0
22	y	617	XAT	9	0
21	F	301	CLA	2	0
21	x	604	CLA	2	0
25	L	301	BCR	3	0
21	A	828	CLA	2	0
29	B	842	PQN	2	0
21	3	605	CLA	1	0
20	2	606	CHL	1	0
21	B	828	CLA	8	0
21	z	604	CLA	2	0
25	A	852	BCR	2	0
20	3	606	CHL	2	0
21	4	608	CLA	2	0
24	2	616	LUT	5	0
21	x	602	CLA	1	0
24	3	613	LUT	8	0
21	O	201	CLA	1	0
23	B	852	LHG	2	0
24	4	616	LUT	2	0
31	z	618	NEX	1	0
21	B	821	CLA	1	0
21	y	611	CLA	3	0
21	K	201	CLA	6	0
21	A	808	CLA	1	0
21	y	612	CLA	1	0
25	A	850	BCR	5	0
24	2	619	LUT	6	0
20	y	609	CHL	6	0
21	A	829	CLA	8	0
21	A	843	CLA	2	0
21	1	608	CLA	1	0
21	A	810	CLA	1	0
28	A	854	SF4	2	0

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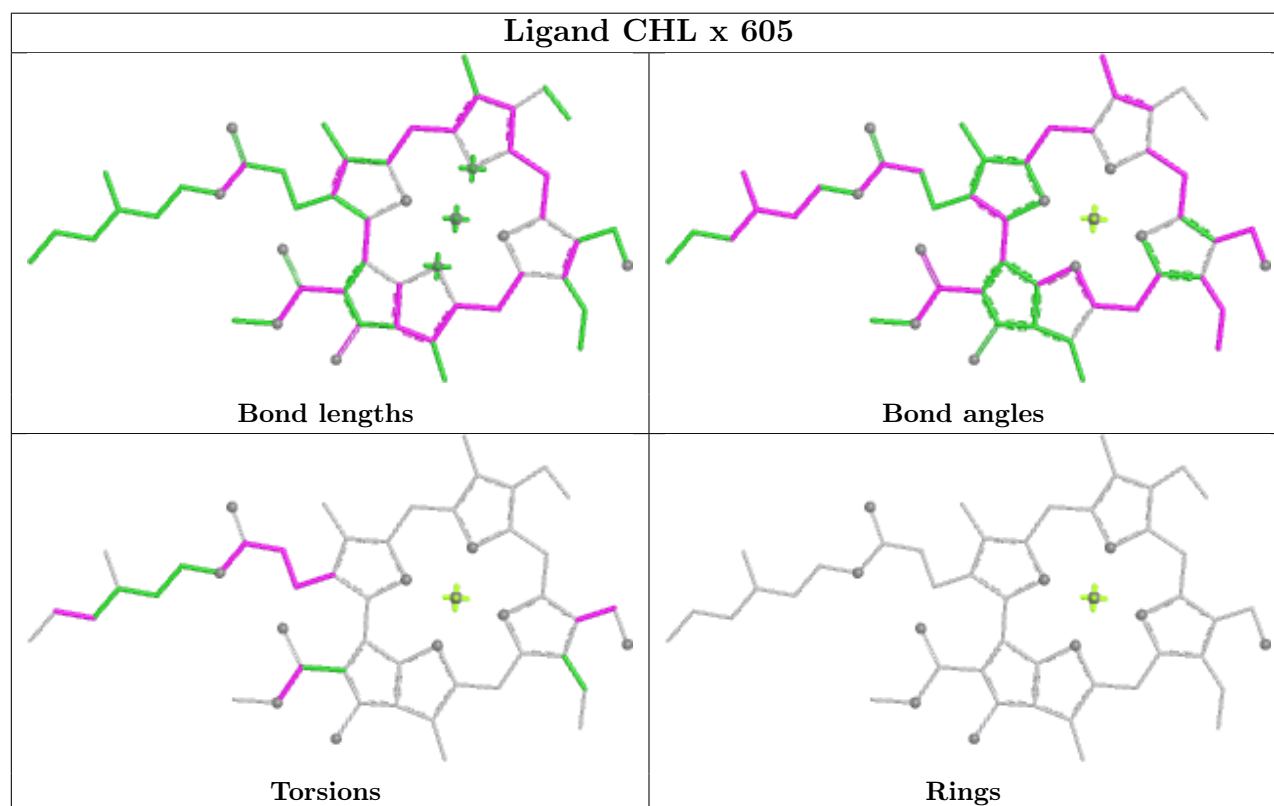
Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	1	605	CLA	3	0
20	z	605	CHL	2	0
21	A	826	CLA	3	0
21	B	840	CLA	2	0
21	y	602	CLA	6	0
23	z	619	LHG	6	0
21	K	206	CLA	5	0
22	x	617	XAT	4	0
21	B	824	CLA	8	0
21	3	607	CLA	5	0
24	y	616	LUT	5	0
21	1	602	CLA	4	0
24	z	616	LUT	8	0
21	B	830	CLA	2	0
21	B	813	CLA	5	0
21	4	612	CLA	1	0
21	4	614	CLA	1	0
21	4	602	CLA	2	0
21	B	838	CLA	2	0
25	B	846	BCR	6	0
21	A	819	CLA	3	0
21	K	204	CLA	4	0
20	z	601	CHL	10	0
21	B	831	CLA	1	0
21	B	808	CLA	4	0
21	x	613	CLA	2	0
22	z	617	XAT	5	0
25	3	614	BCR	5	0
21	3	608	CLA	3	0
21	4	603	CLA	1	0
25	O	204	BCR	2	0
24	1	616	LUT	3	0
20	1	601	CHL	7	0
21	3	610	CLA	1	0
29	A	855	PQN	2	0
21	2	604	CLA	8	0
21	B	817	CLA	2	0
21	3	601	CLA	4	0
21	B	834	CLA	2	0
21	A	827	CLA	1	0
20	z	608	CHL	2	0
31	x	618	NEX	3	0

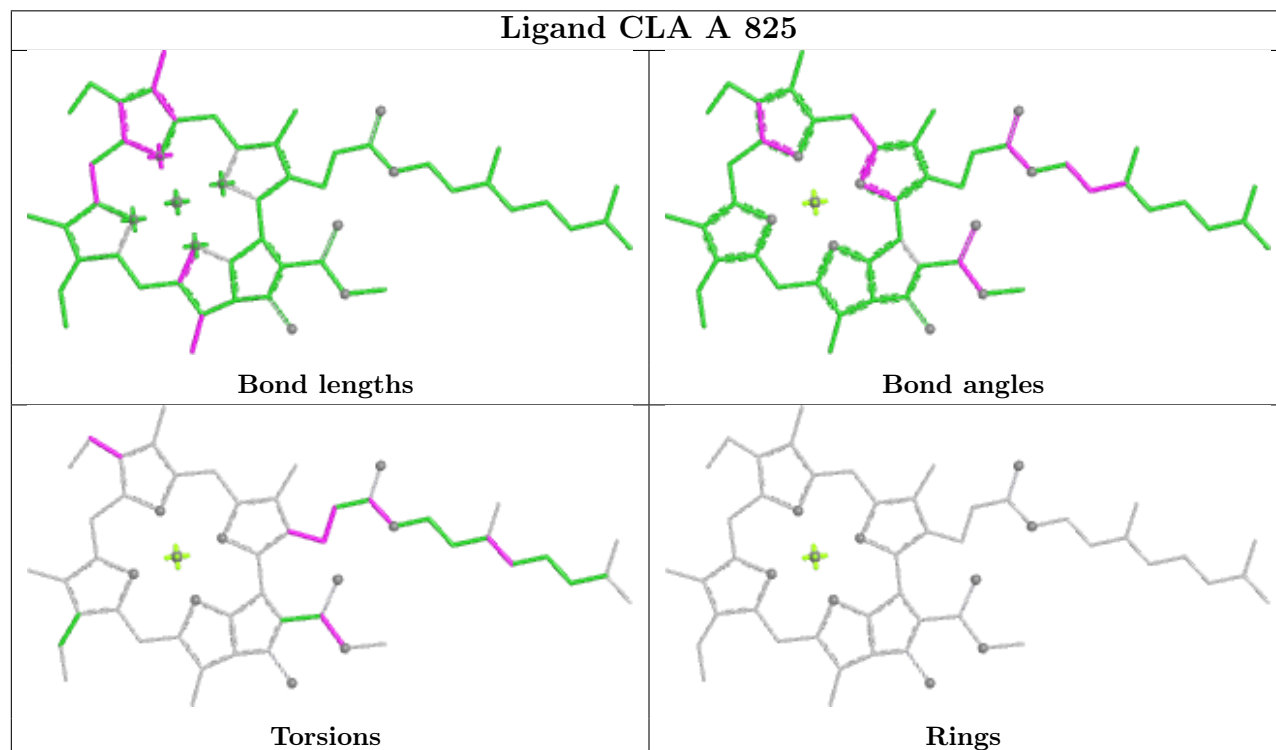
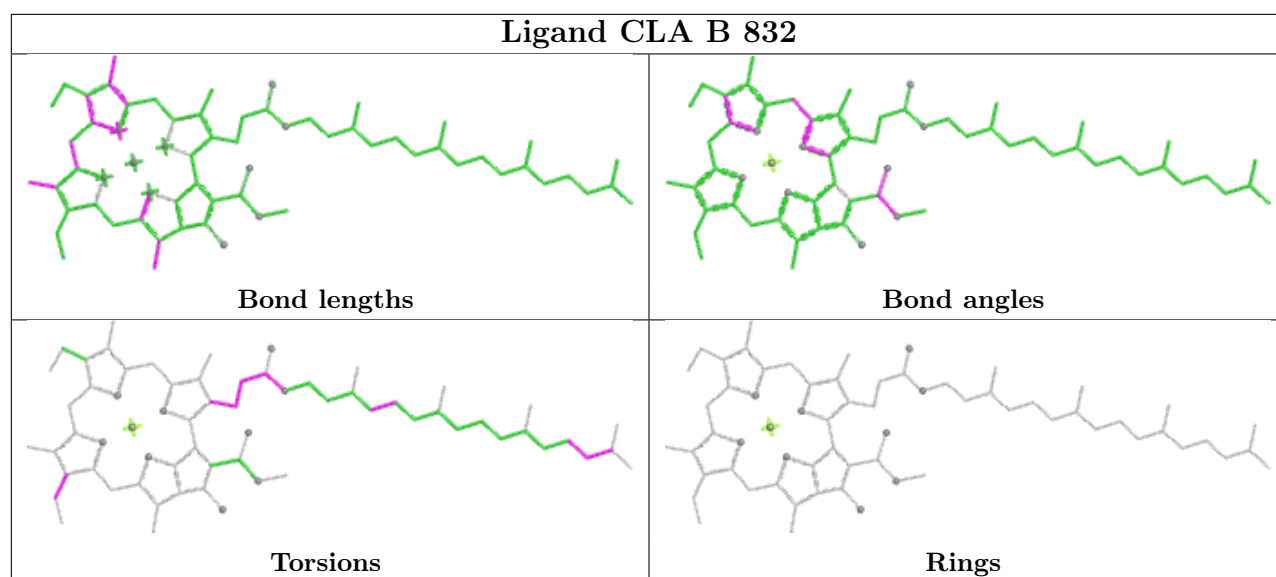
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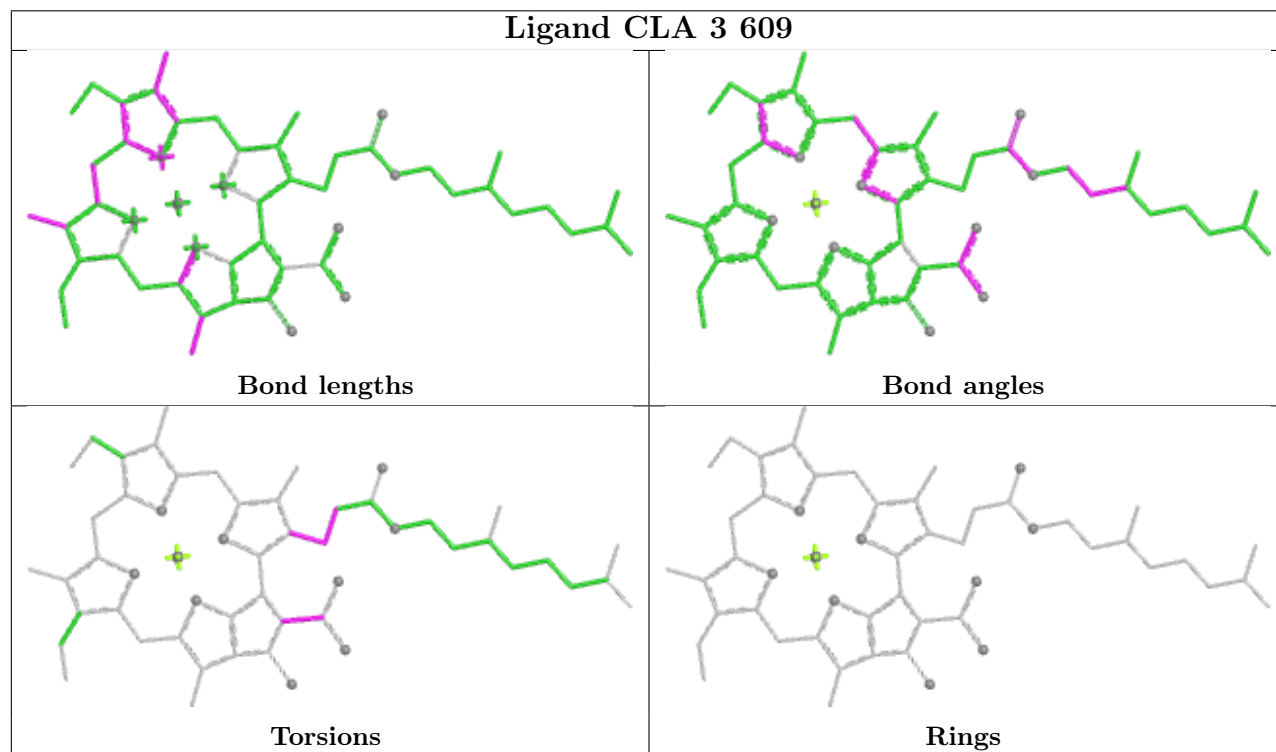
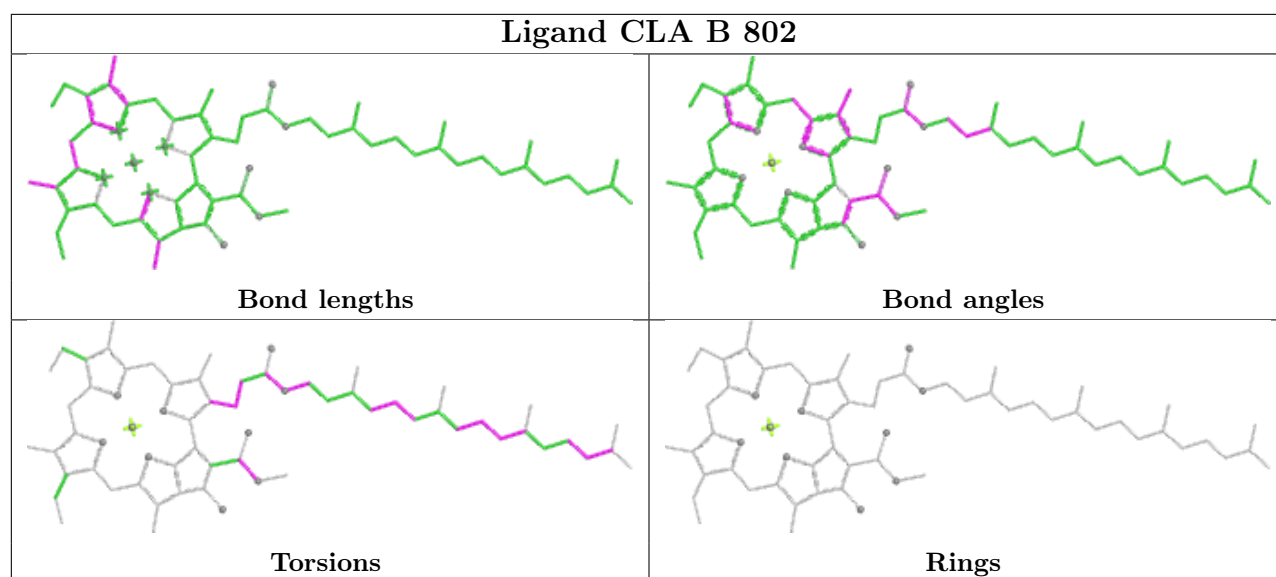
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	B	822	CLA	7	0
21	A	809	CLA	5	0
21	A	821	CLA	1	0
21	y	614	CLA	5	0
25	F	304	BCR	2	0
25	B	848	BCR	2	0
21	A	807	CLA	2	0

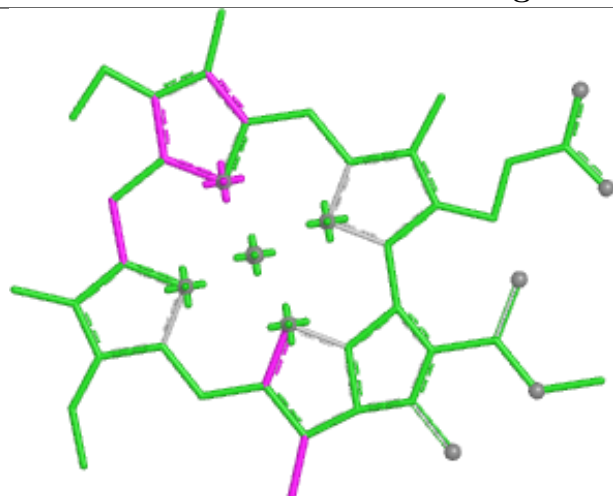
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



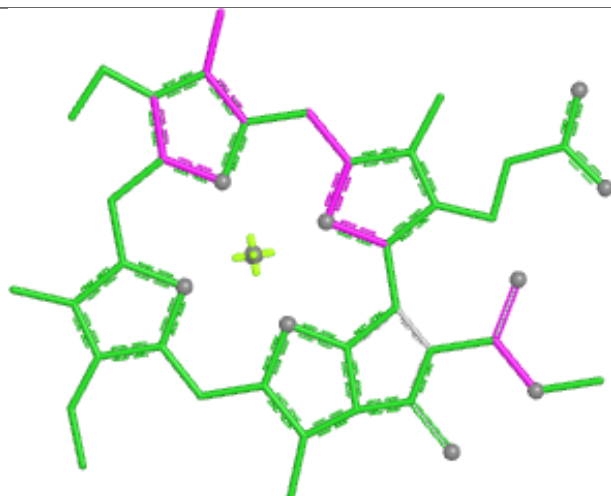




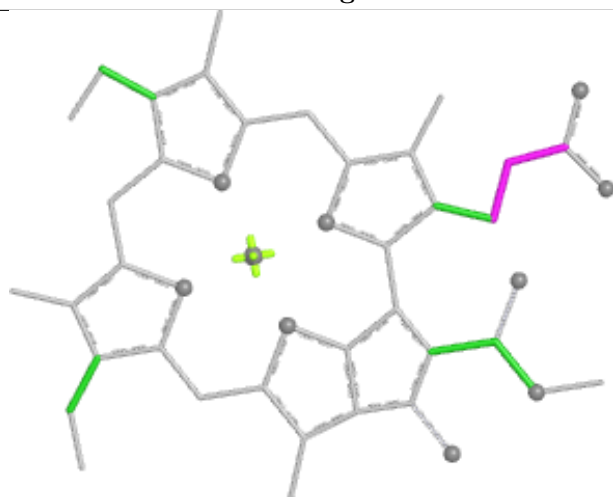
Ligand CLA G 203



Bond lengths



Bond angles

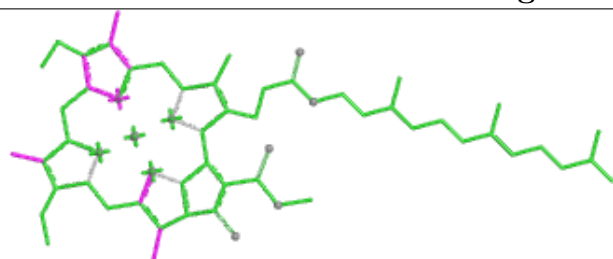


Torsions

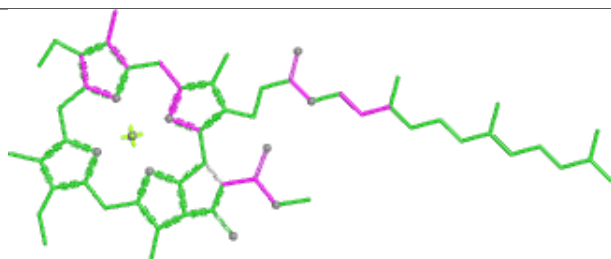


Rings

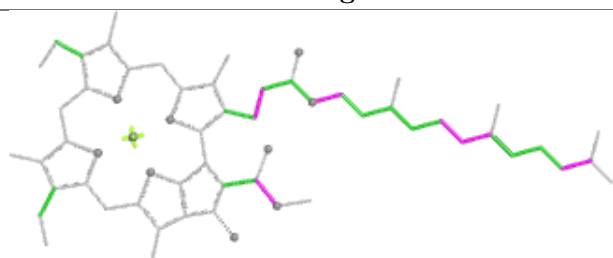
Ligand CLA x 603



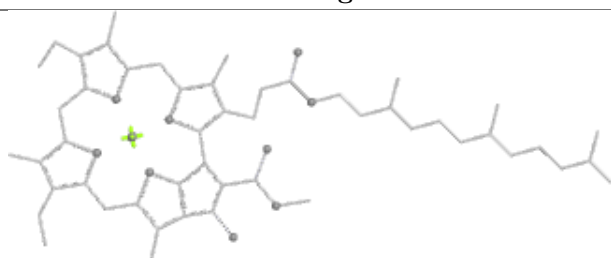
Bond lengths



Bond angles

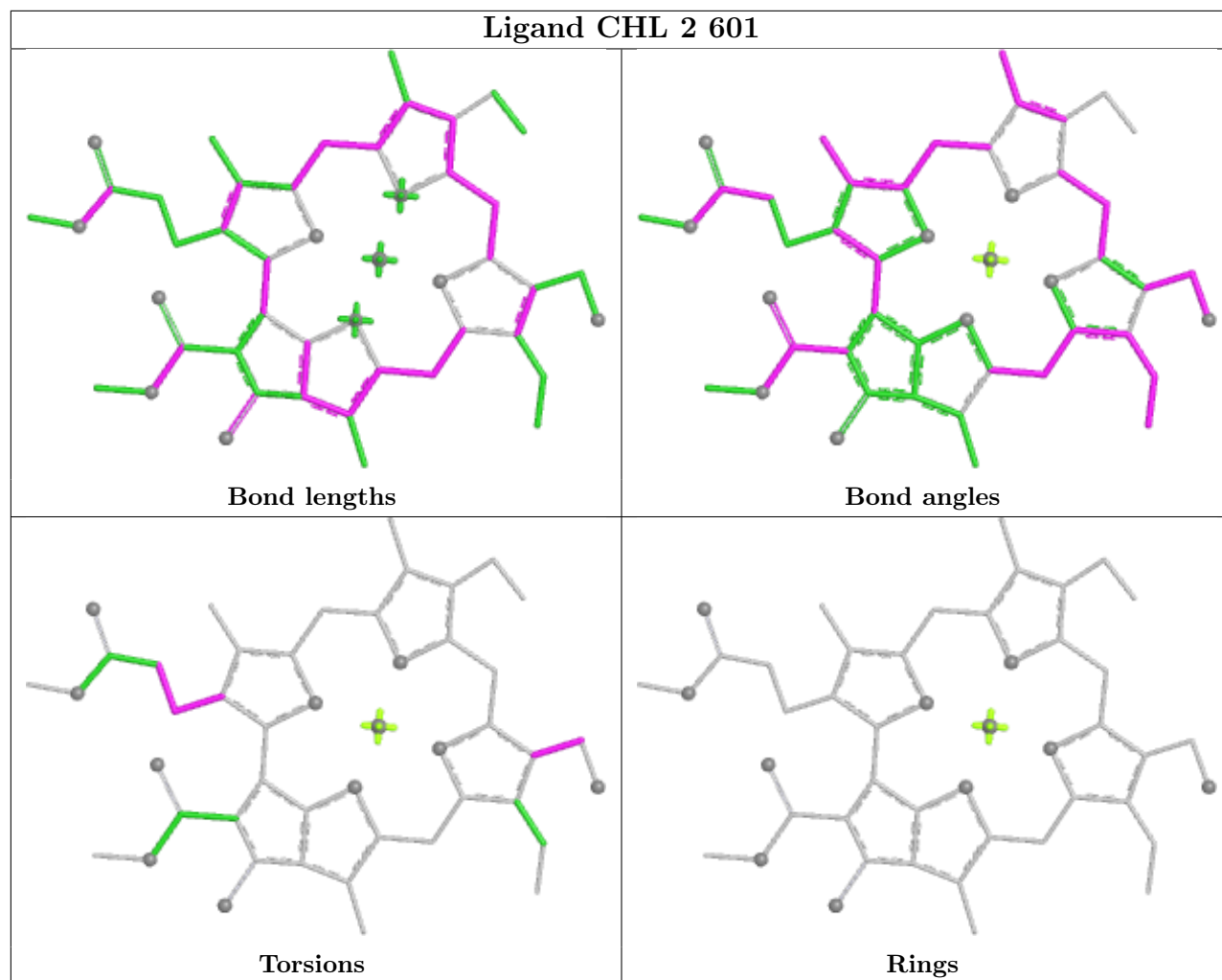


Torsions

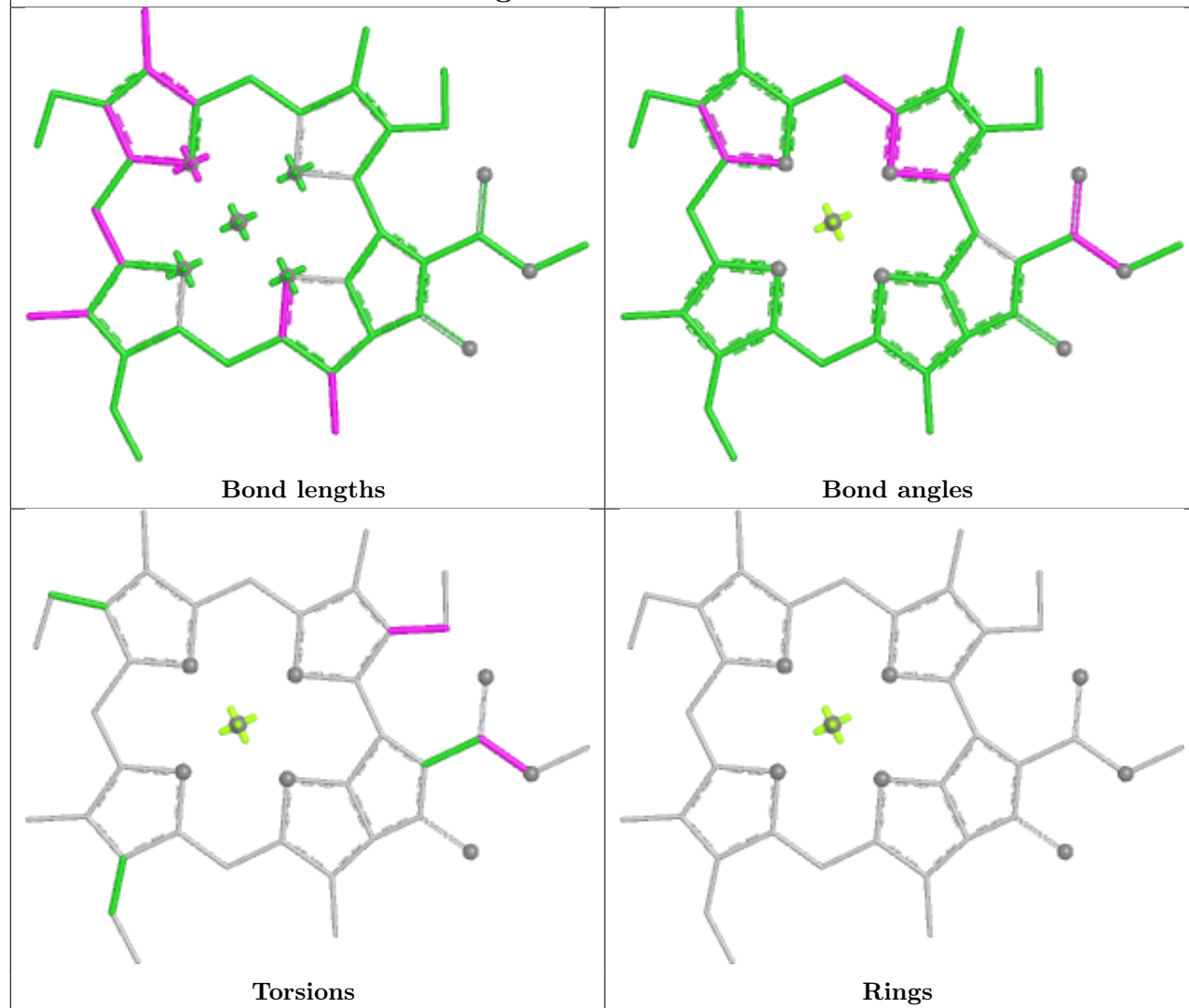


Rings

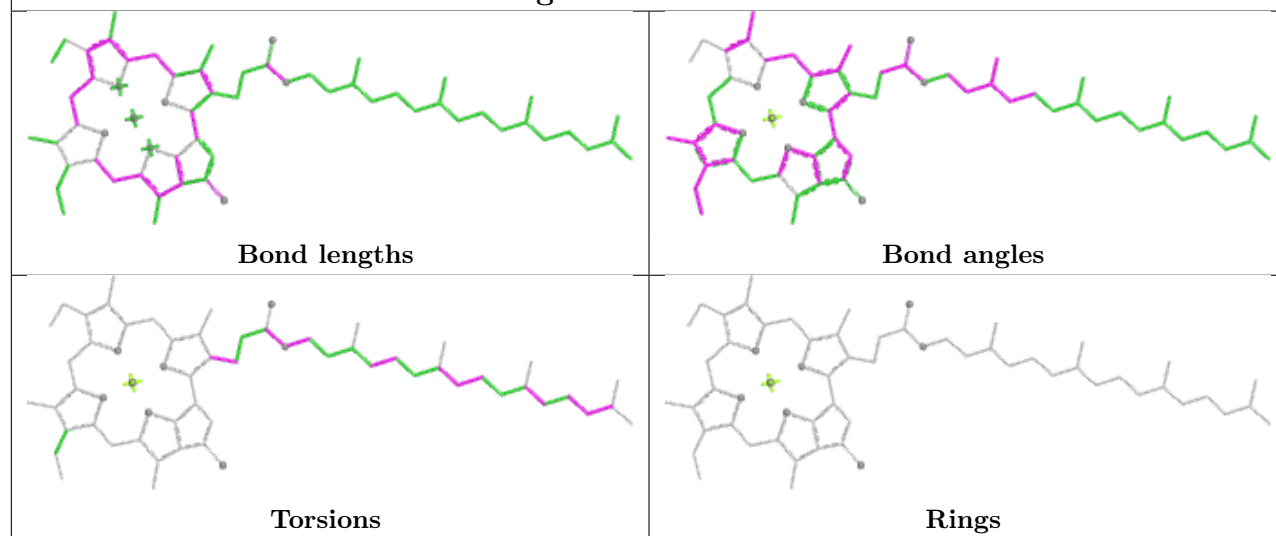
Ligand CHL 2 601

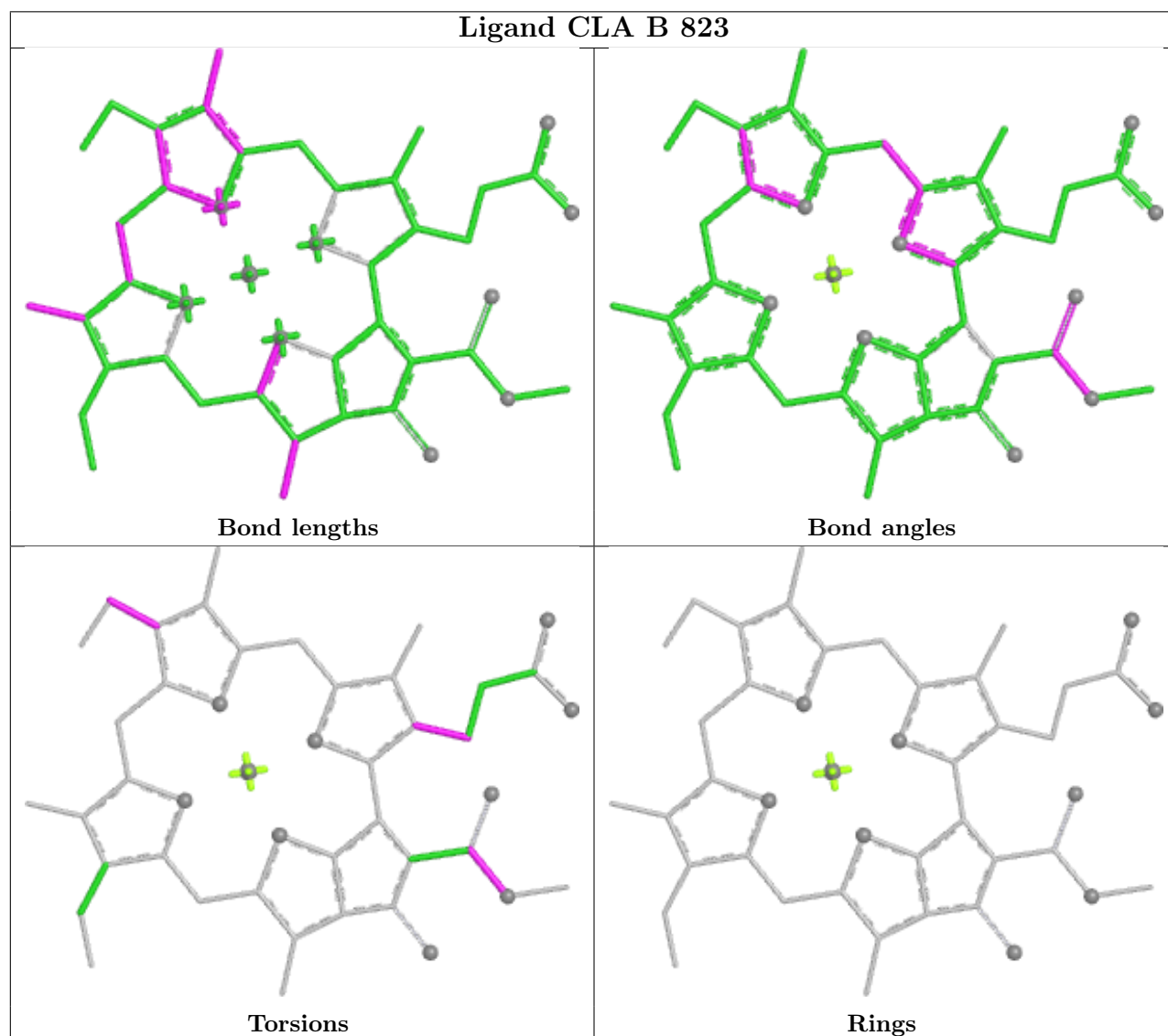
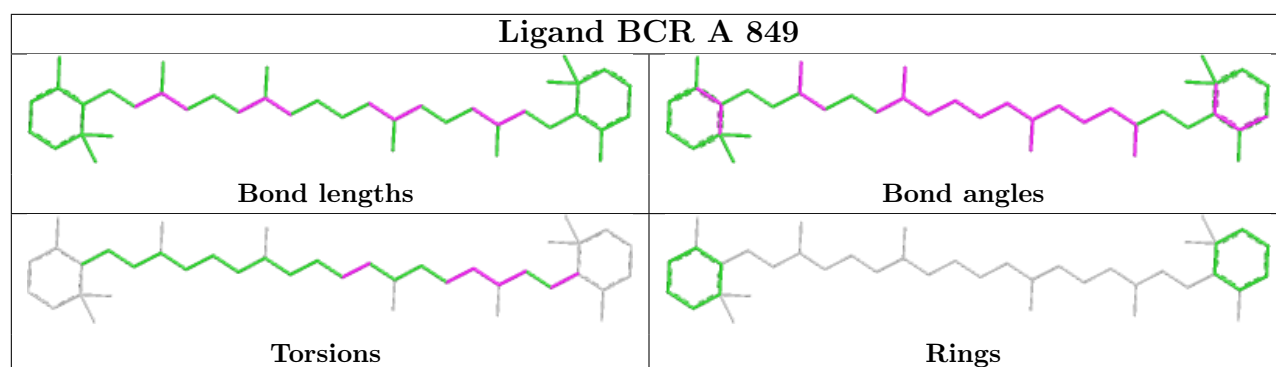


Ligand CLA A 823

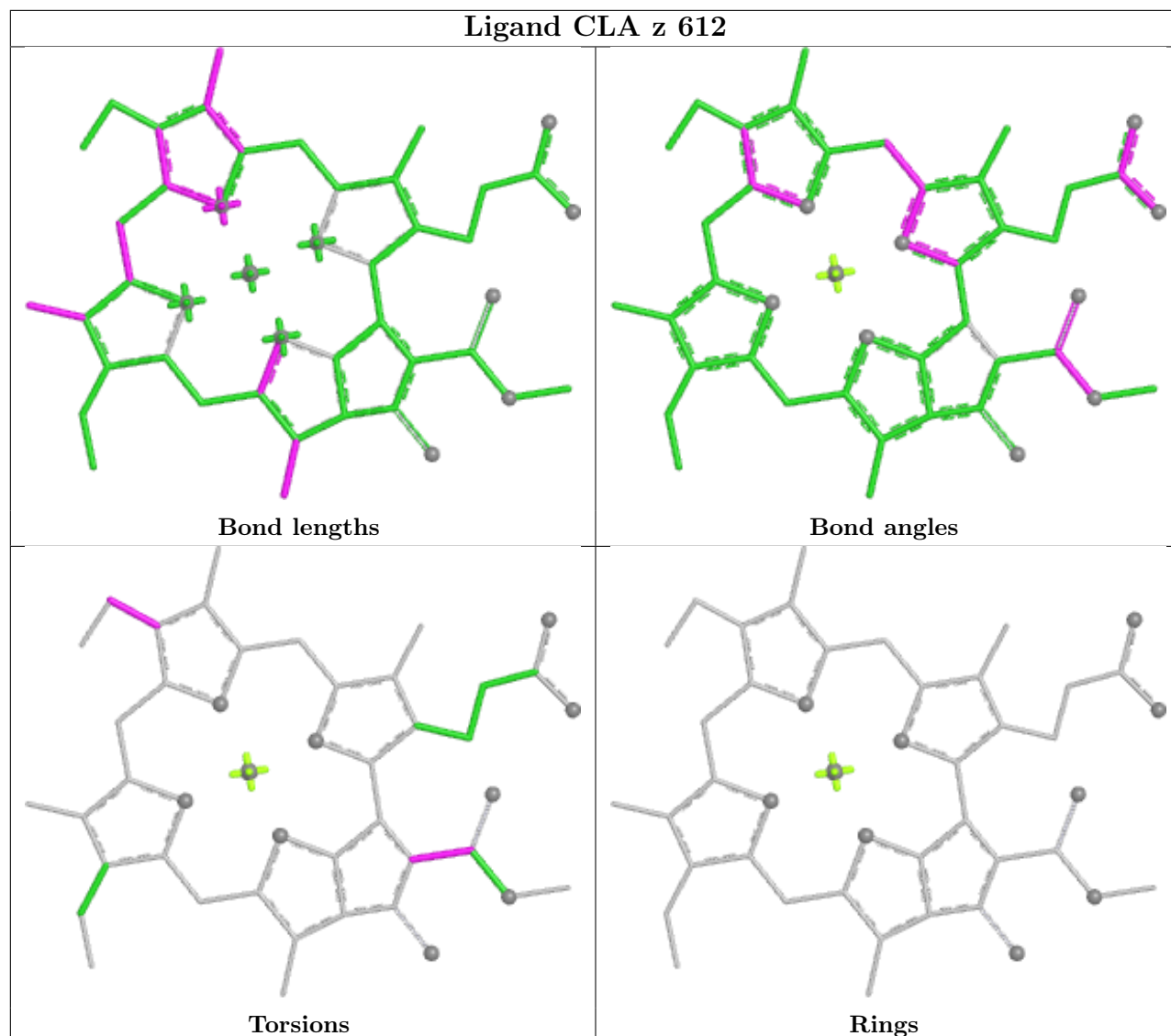


Ligand CL0 A 801

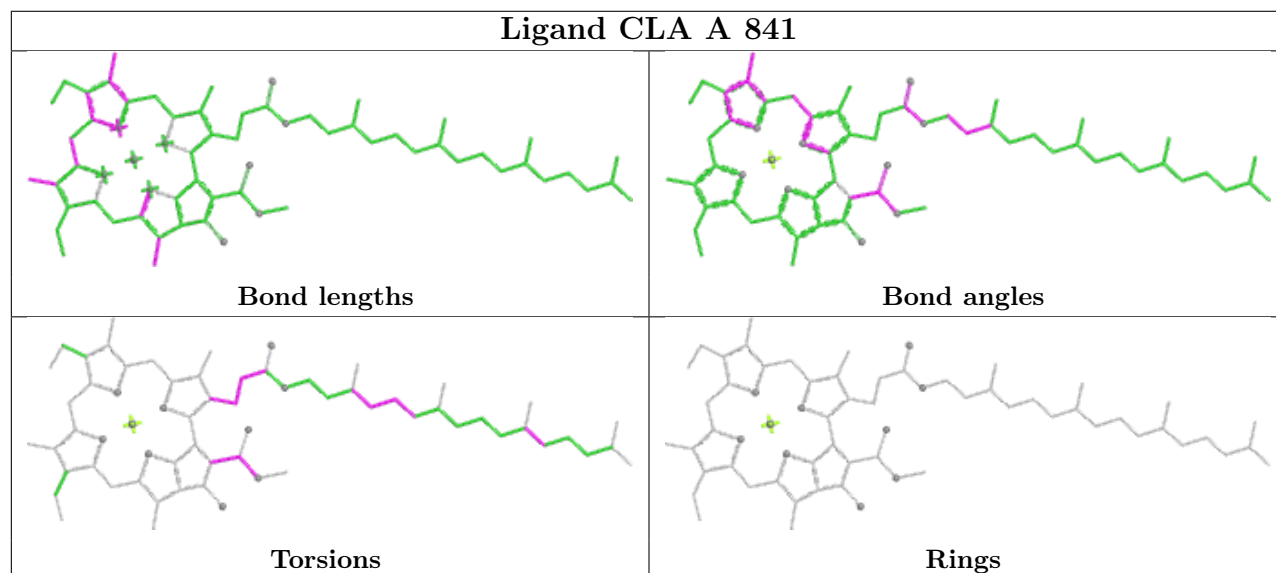


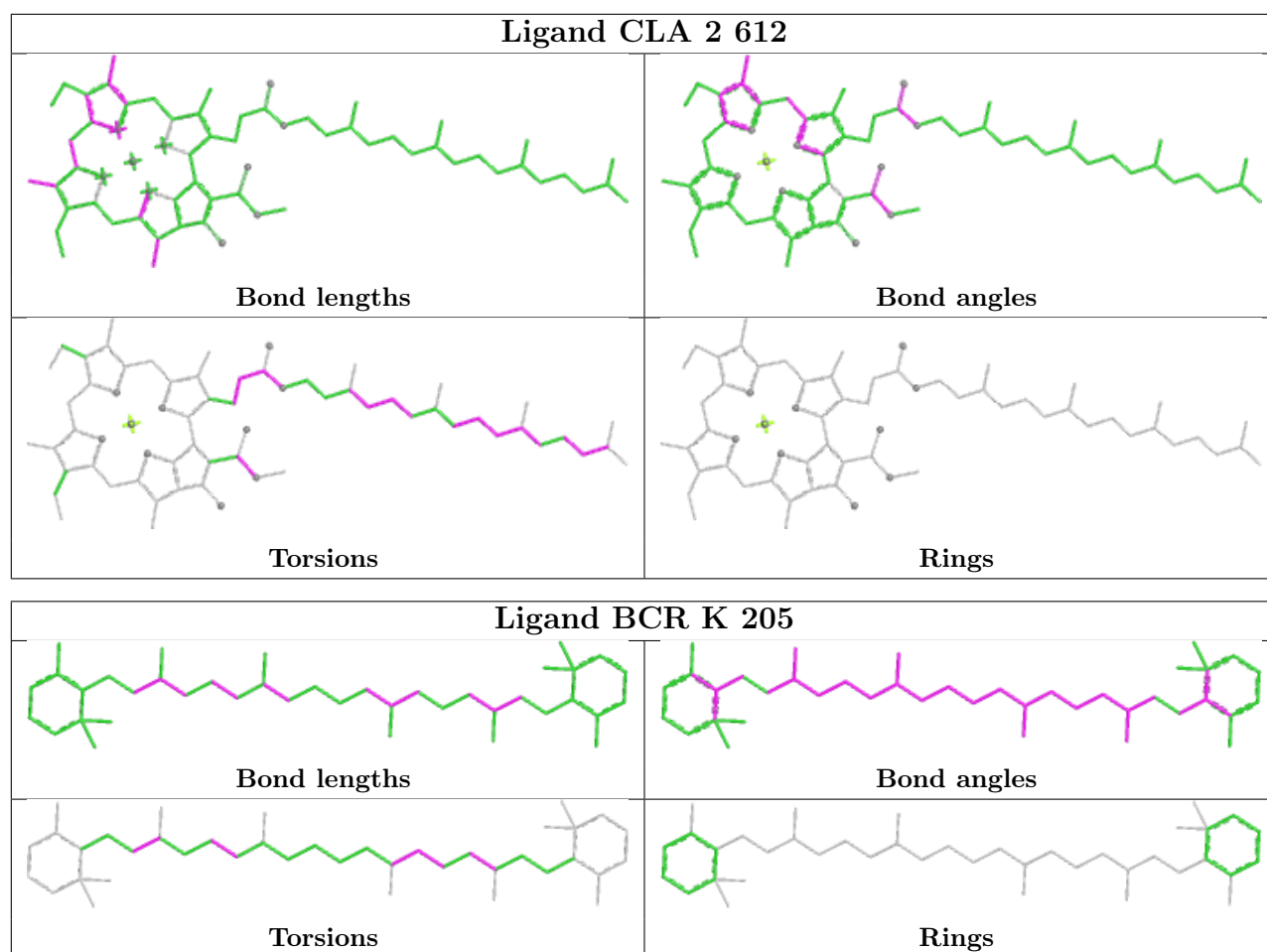


Ligand CLA z 612

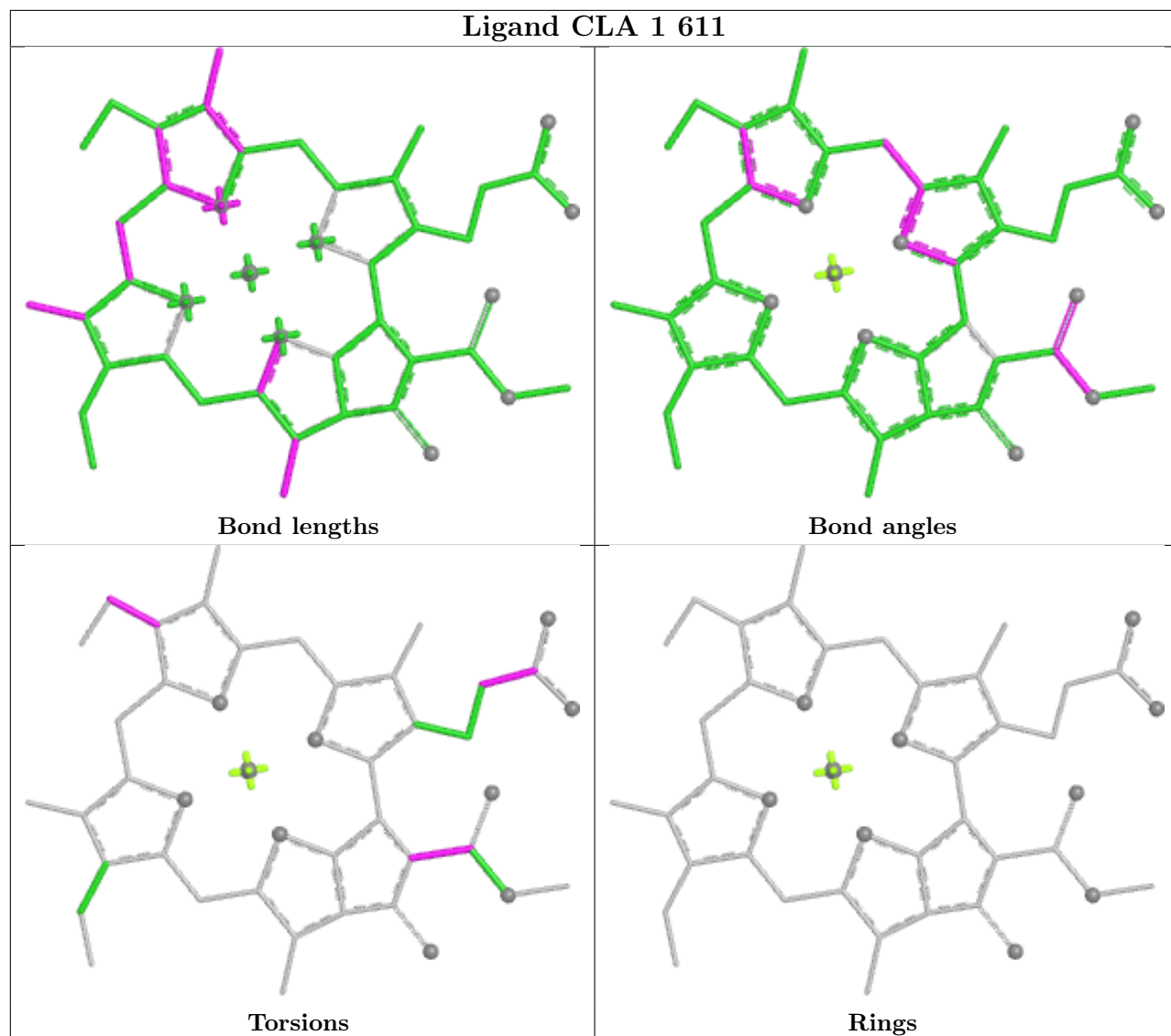


Ligand CLA A 841

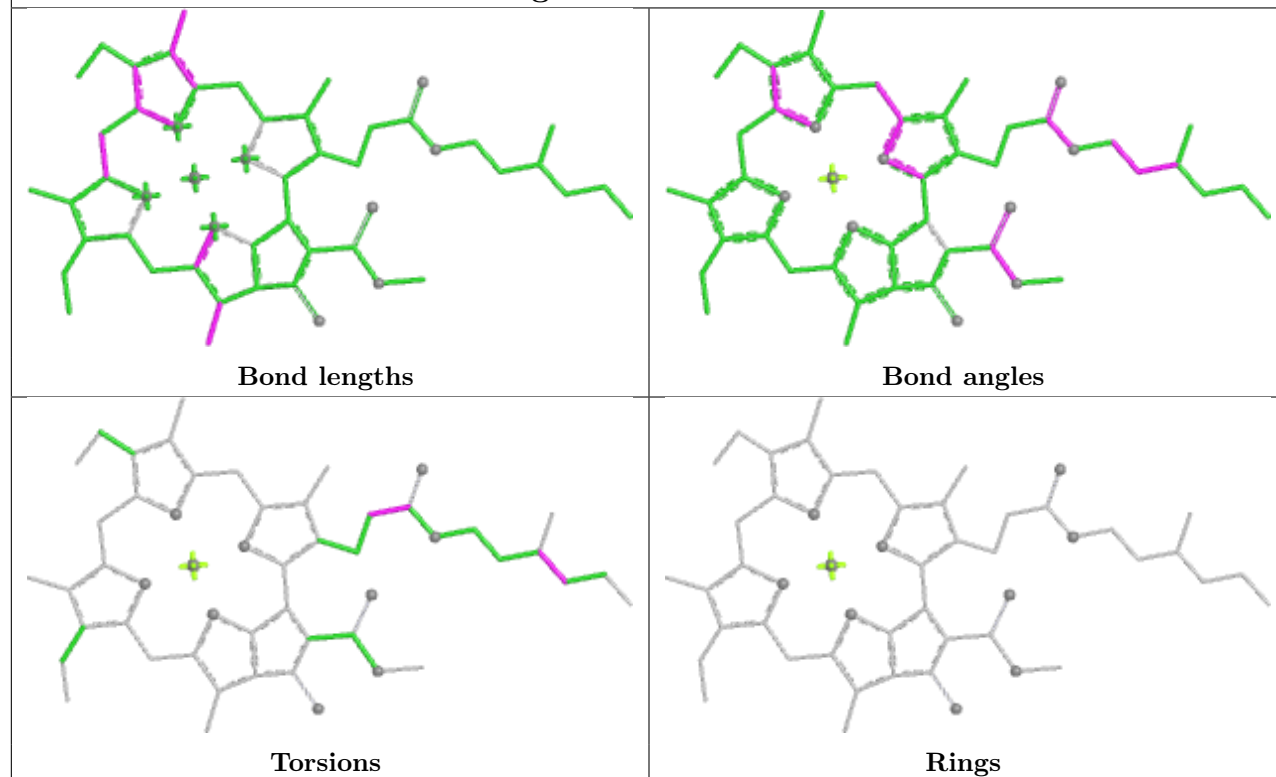




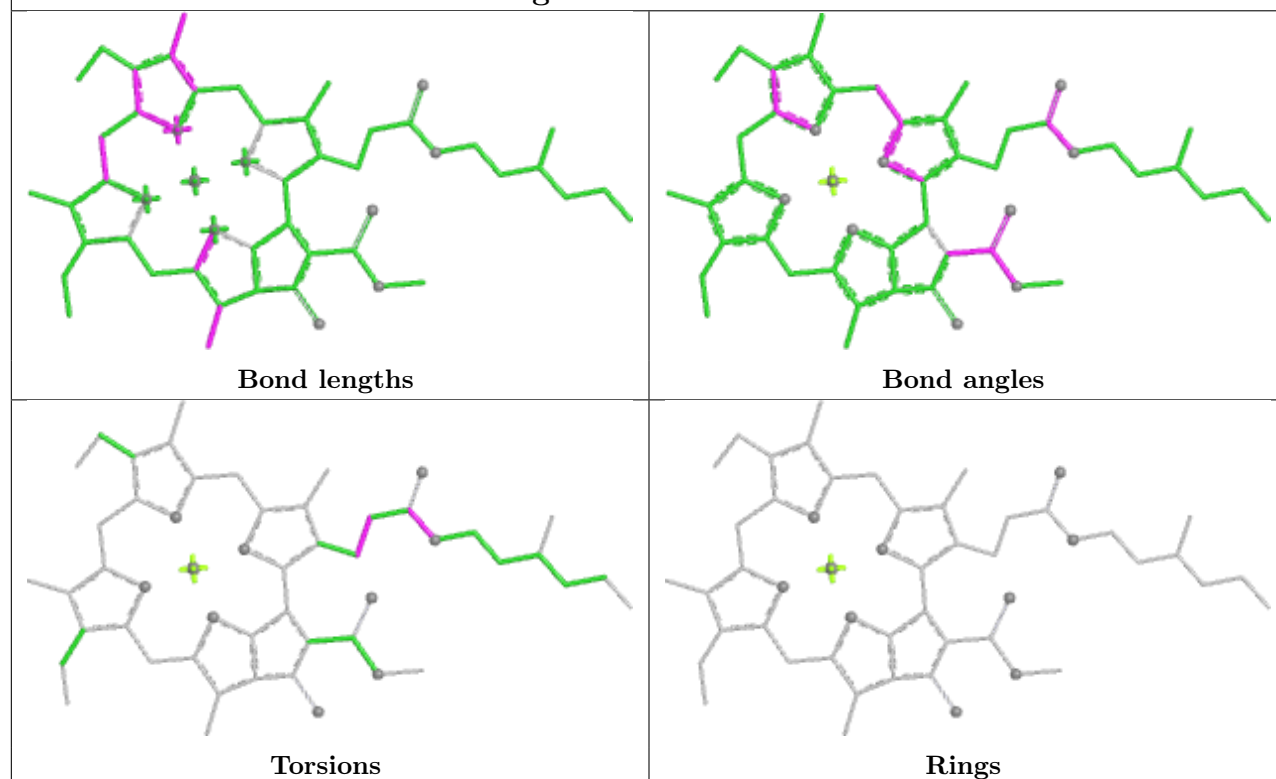
Ligand CLA 1 611

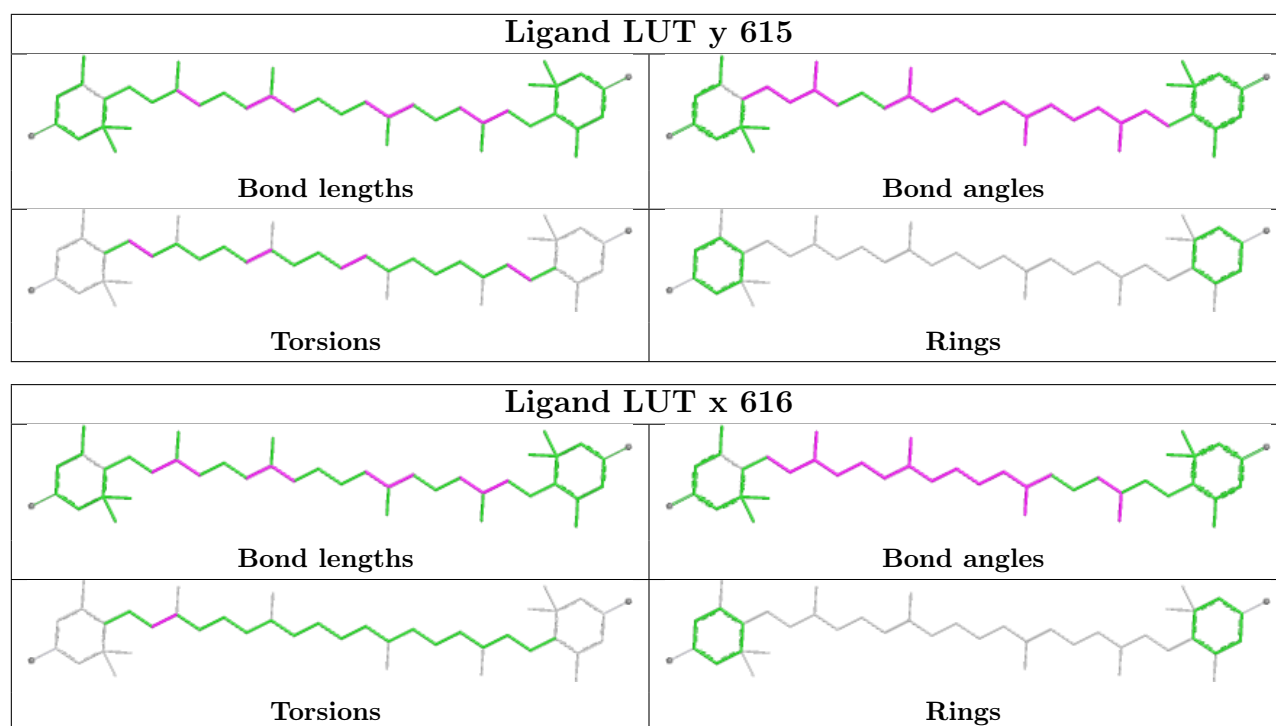


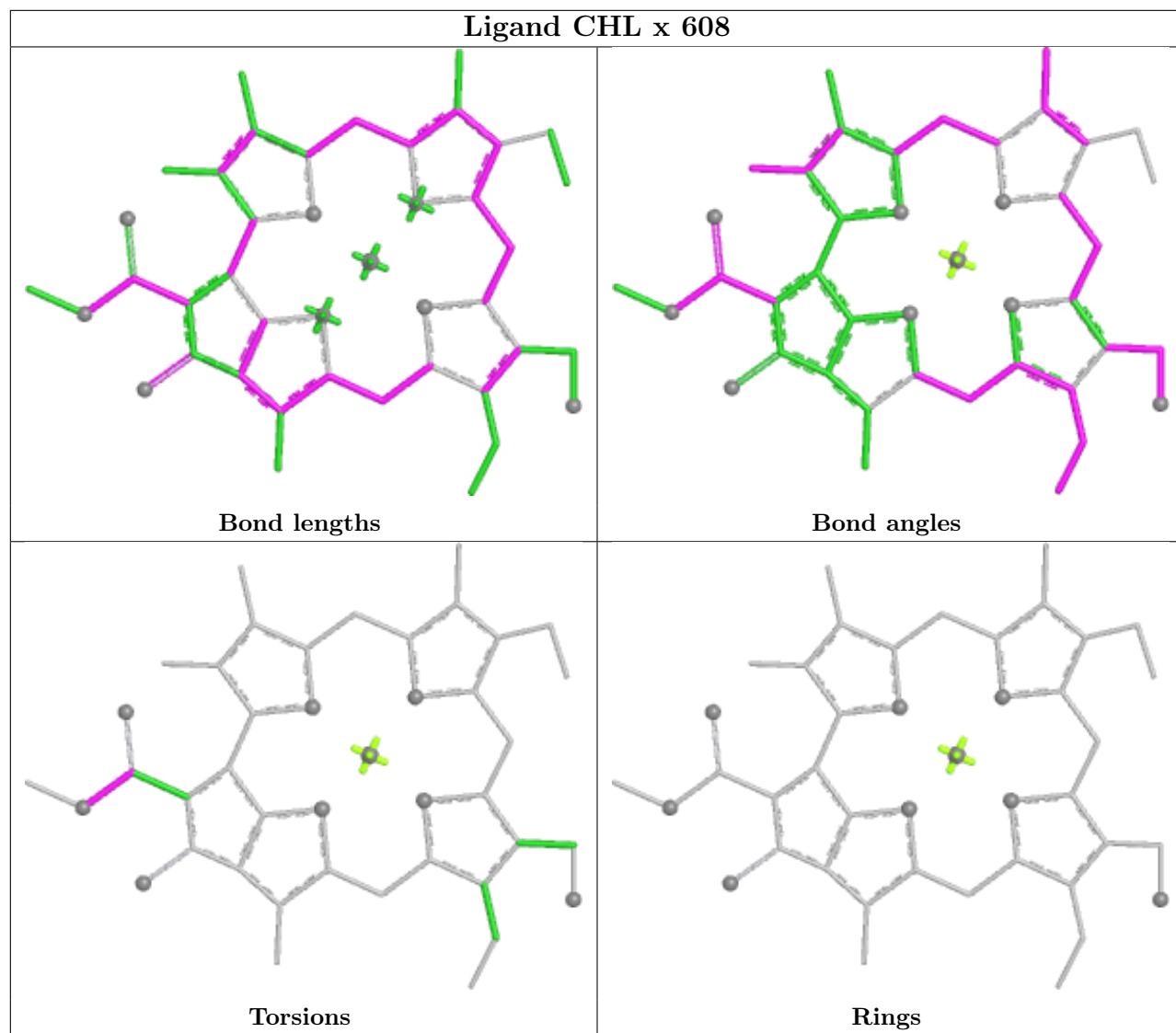
Ligand CLA A 840



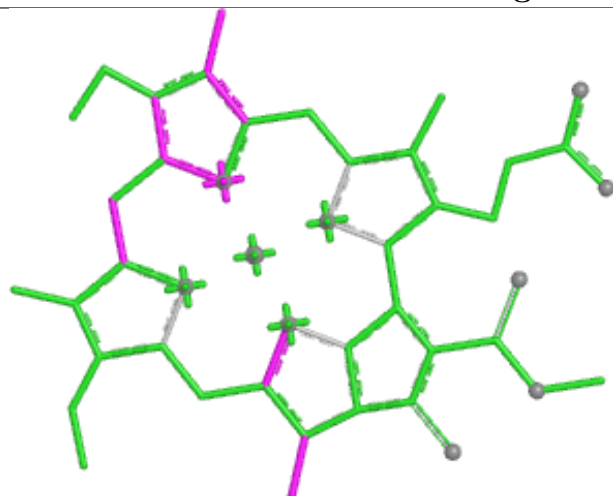
Ligand CLA B 807



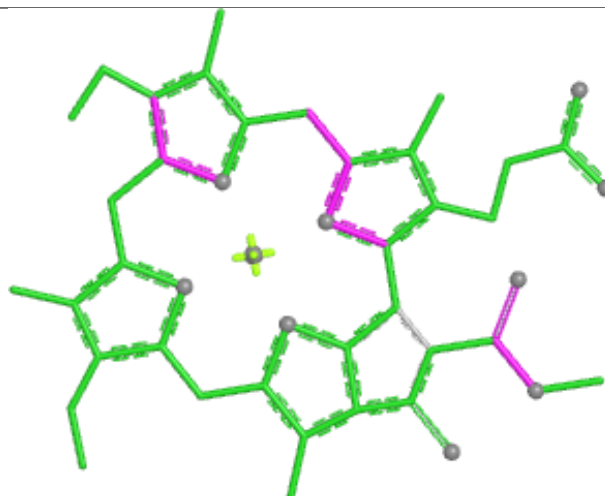




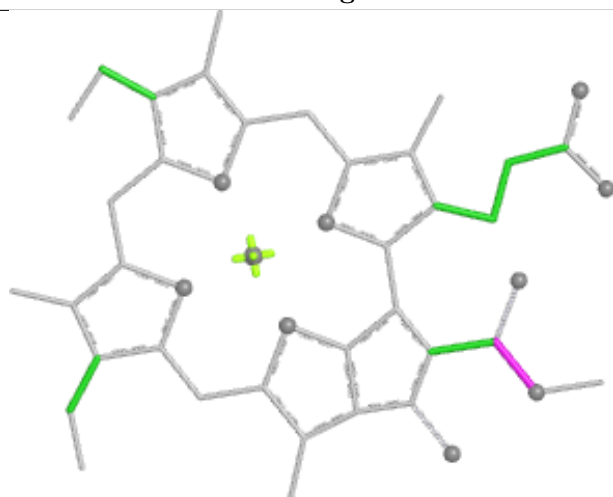
Ligand CLA A 817



Bond lengths



Bond angles

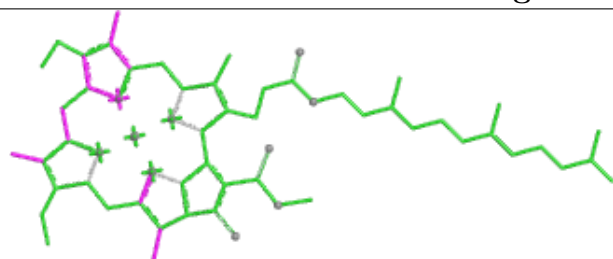


Torsions

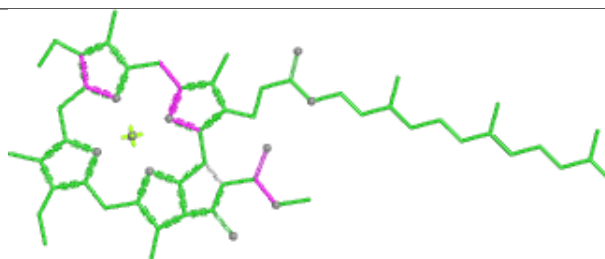


Rings

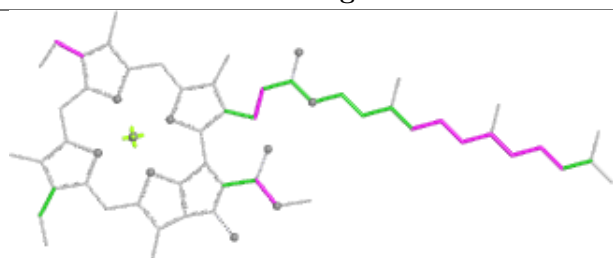
Ligand CLA H 201



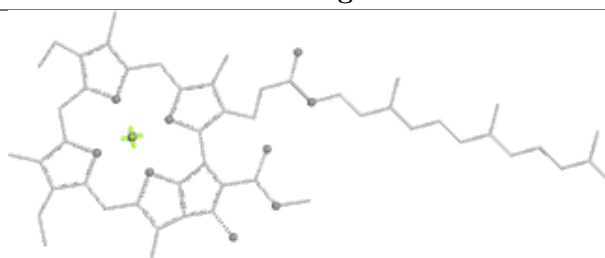
Bond lengths



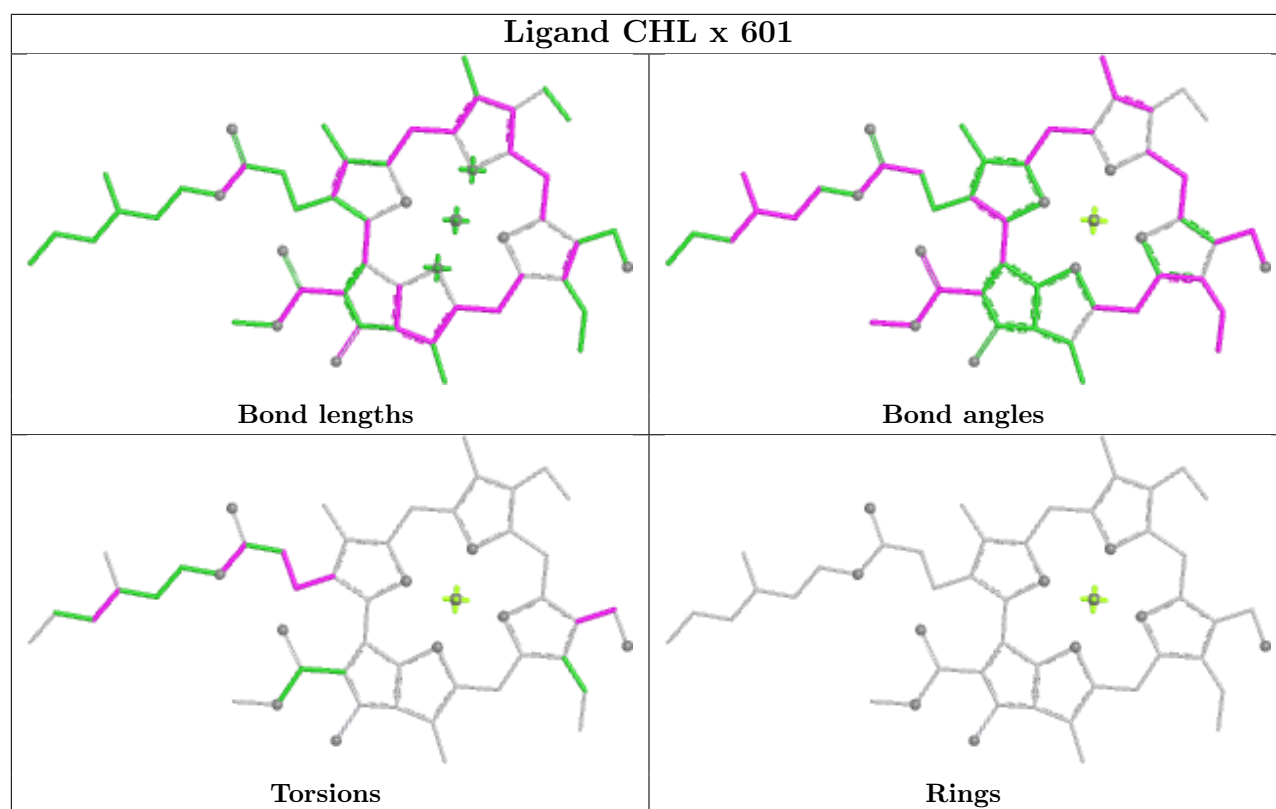
Bond angles



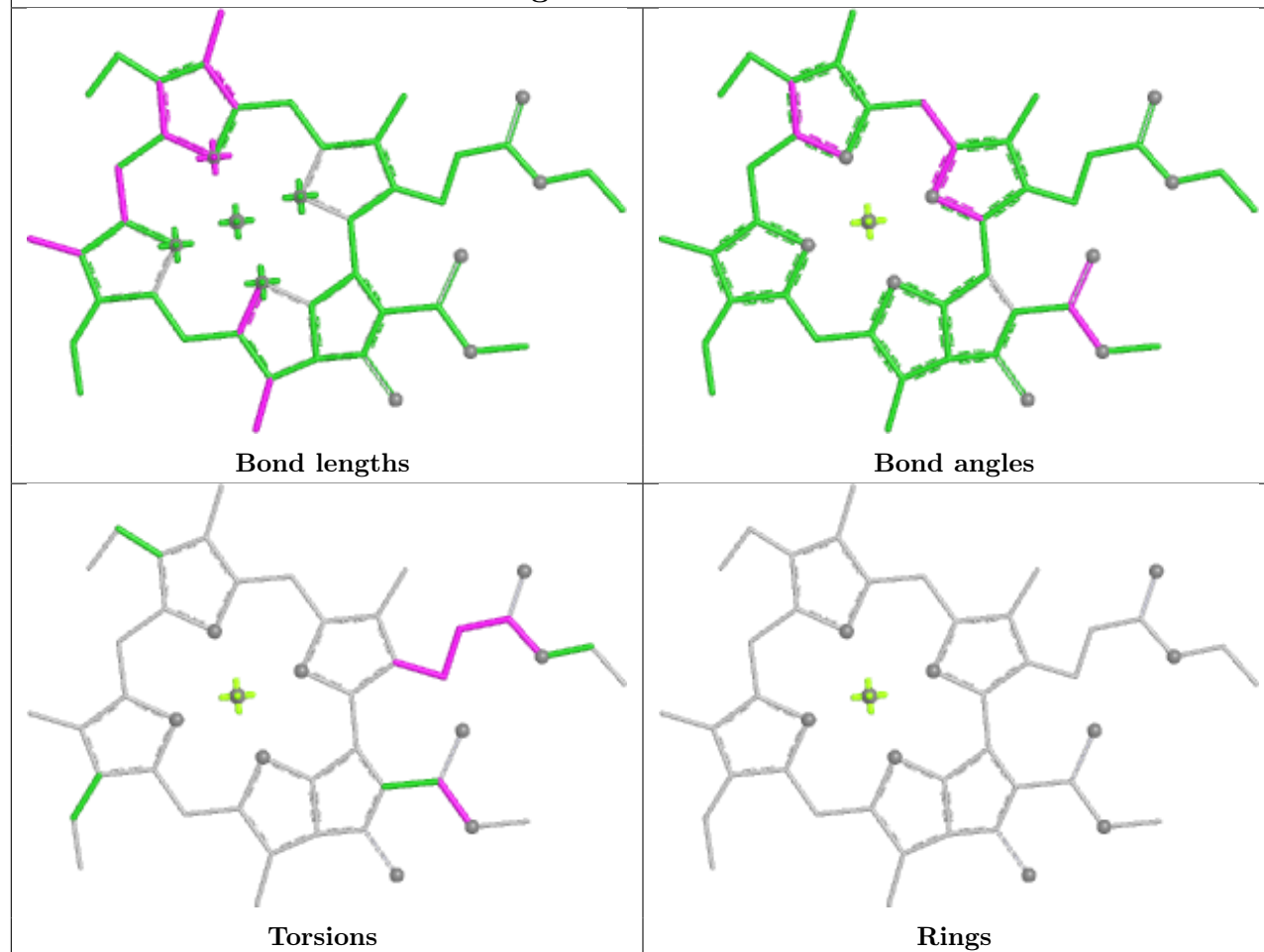
Torsions



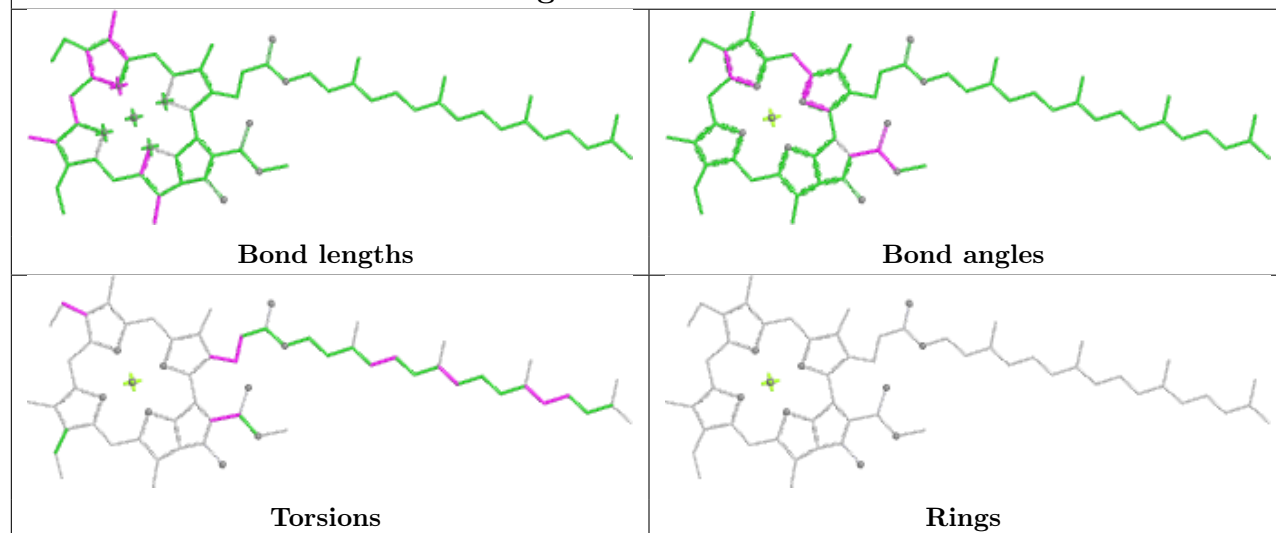
Rings

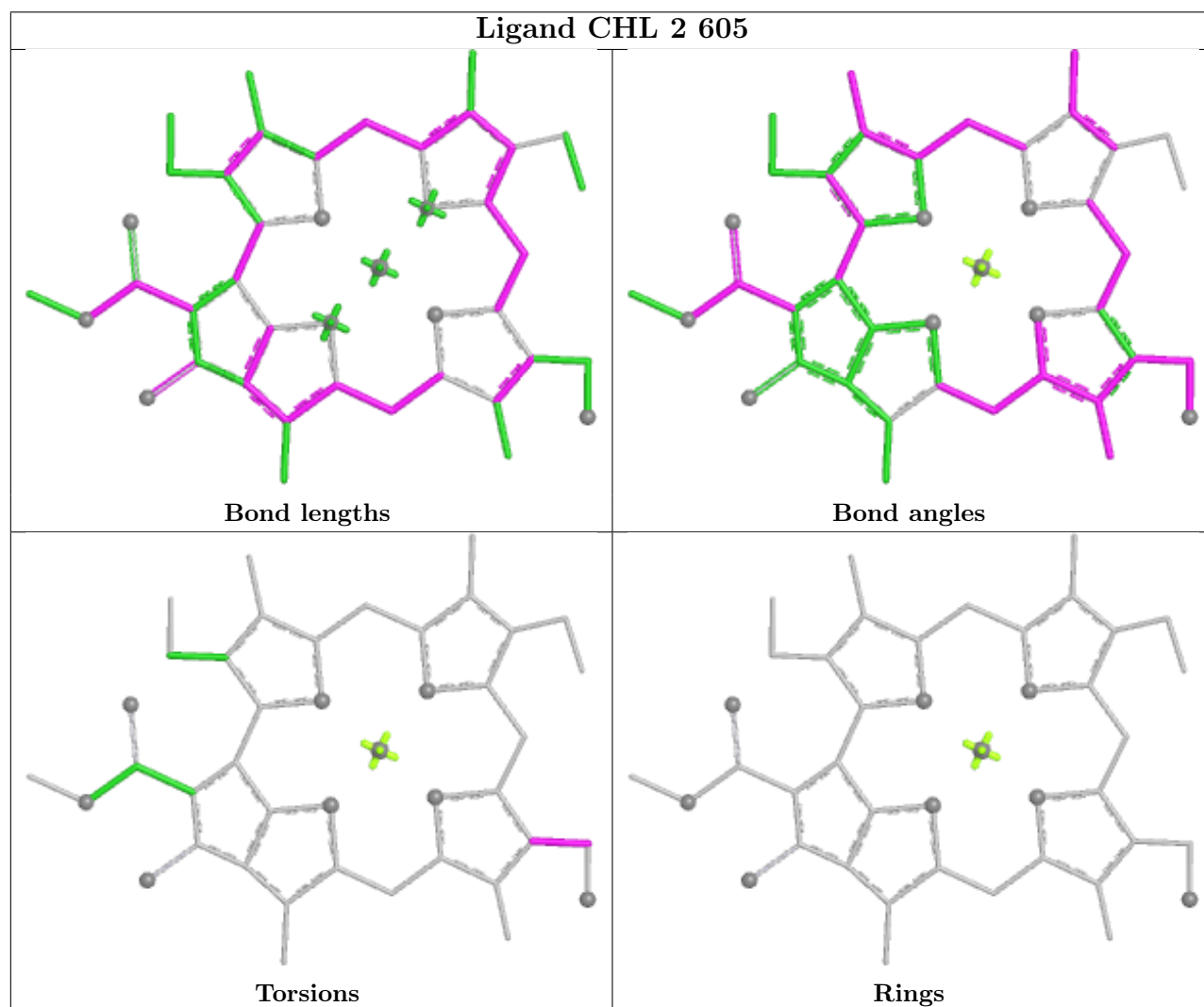
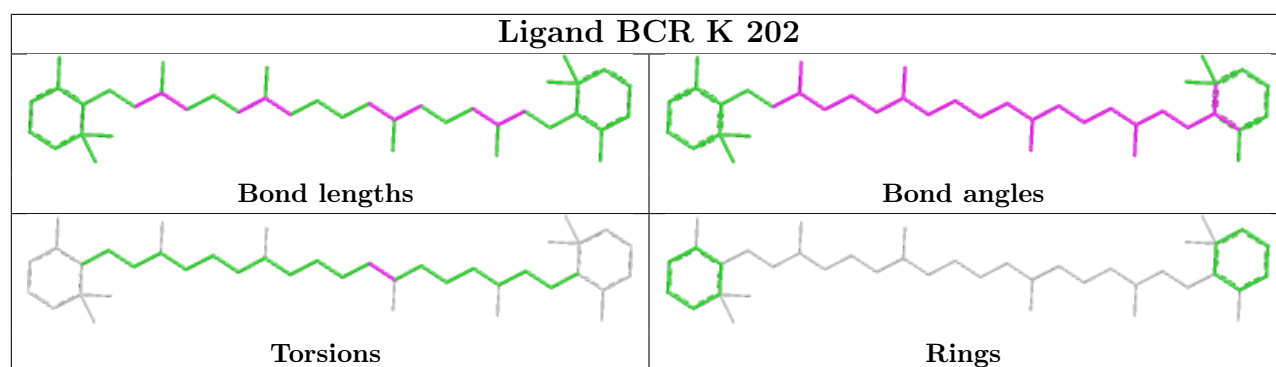


Ligand CLA 2 609

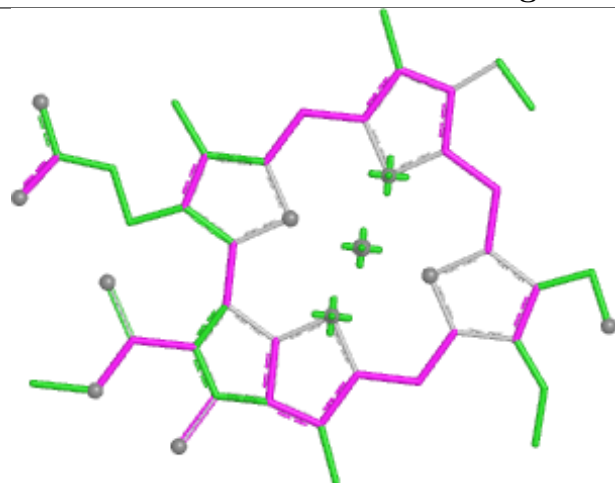


Ligand CLA z 614

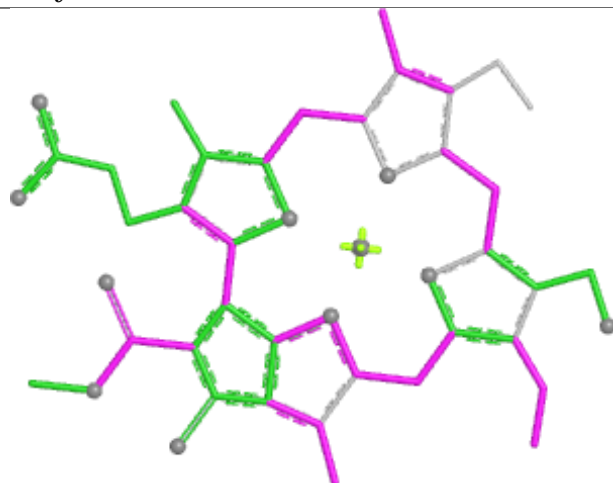




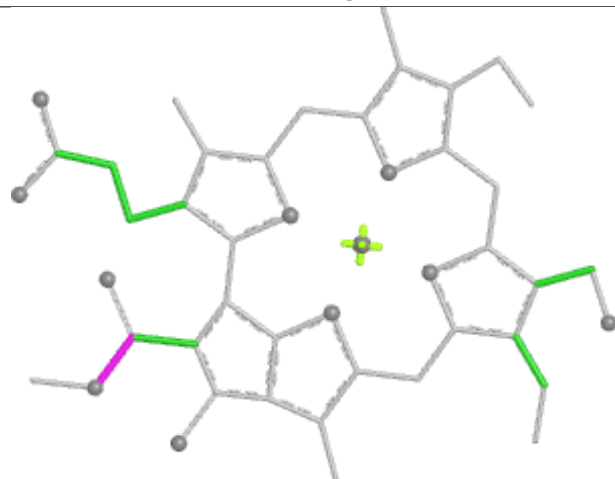
Ligand CHL y 606



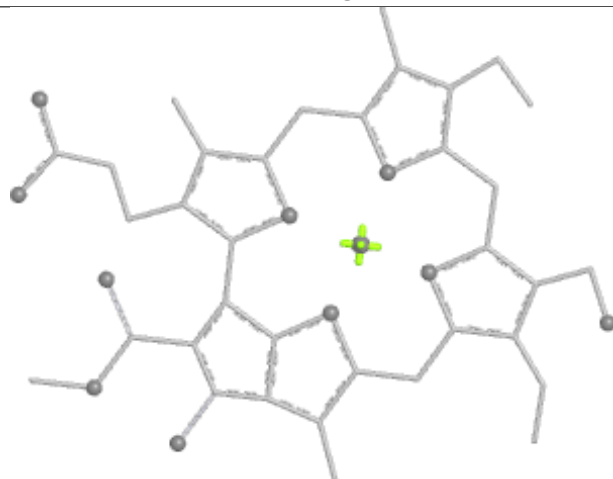
Bond lengths



Bond angles

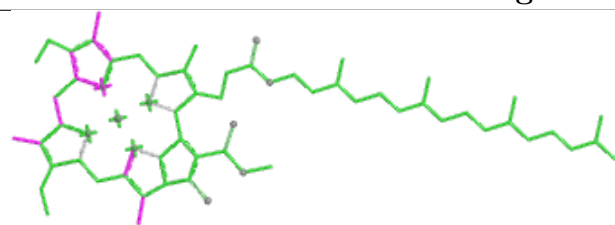


Torsions

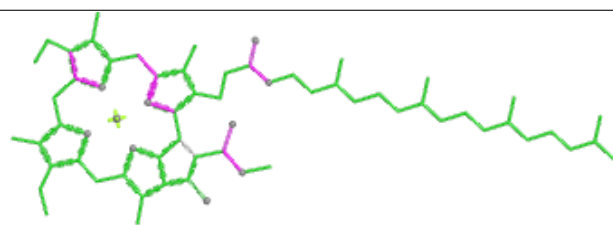


Rings

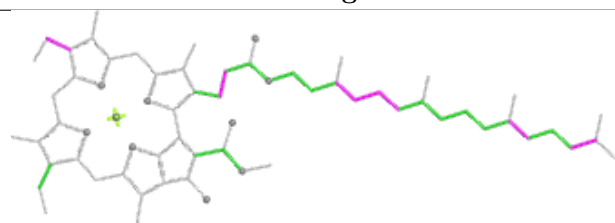
Ligand CLA A 844



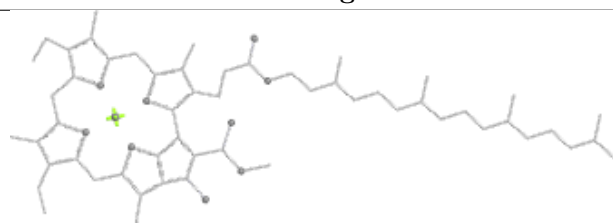
Bond lengths



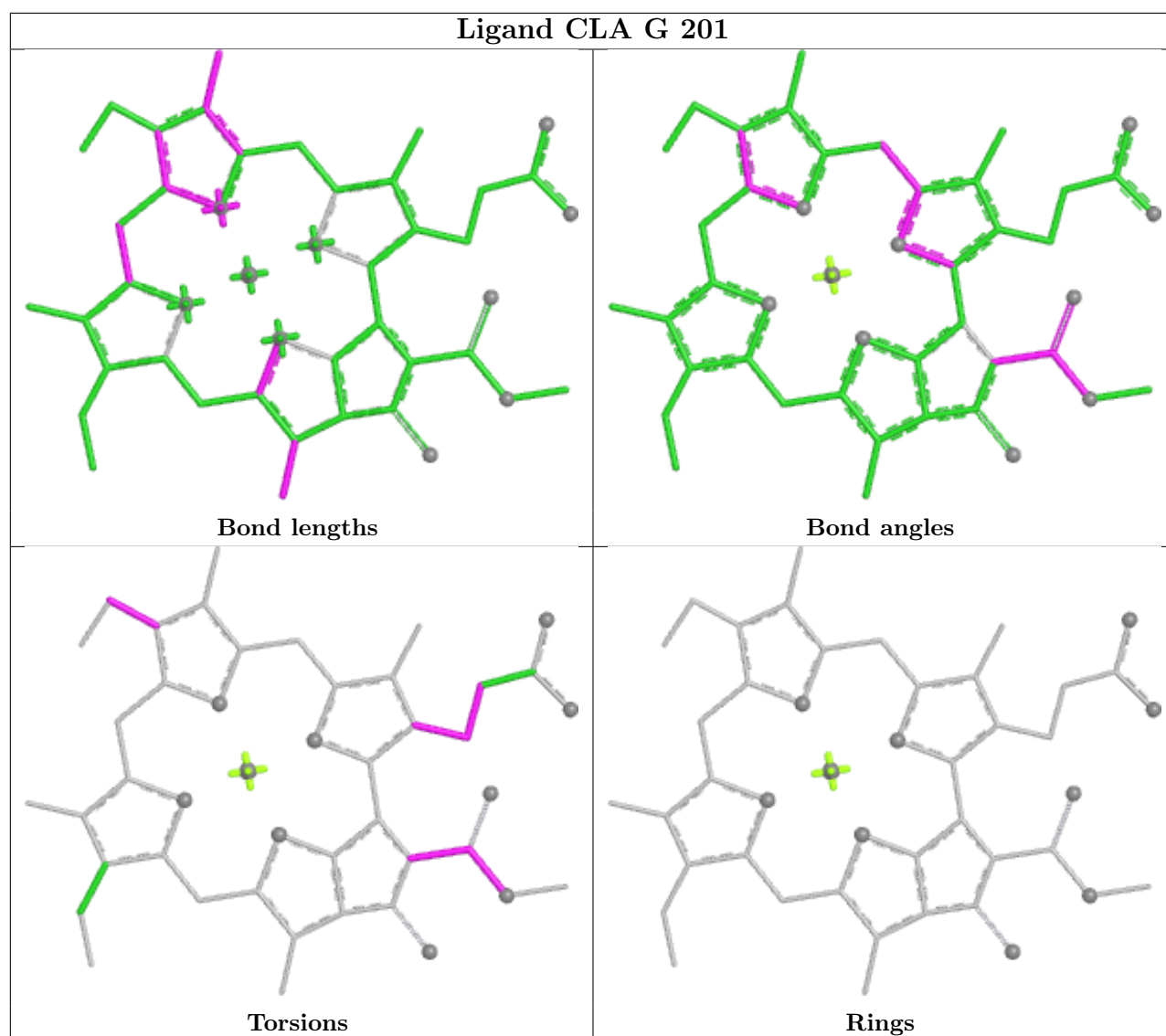
Bond angles

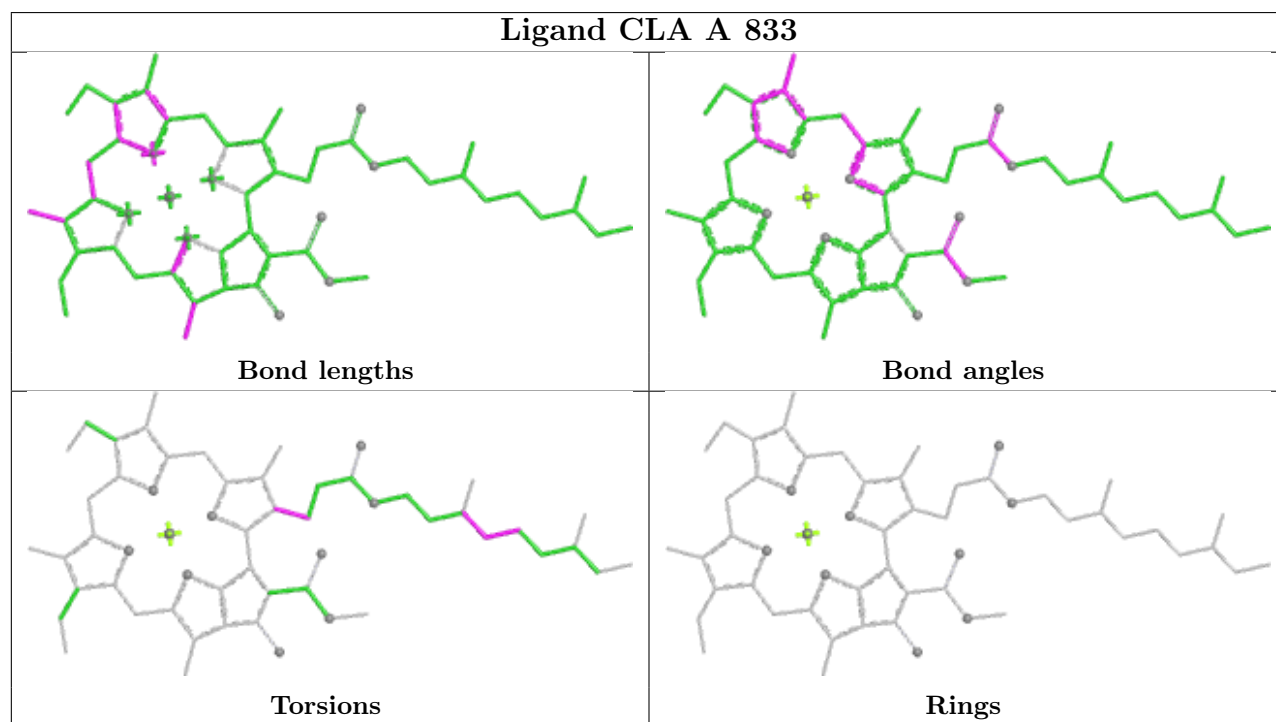
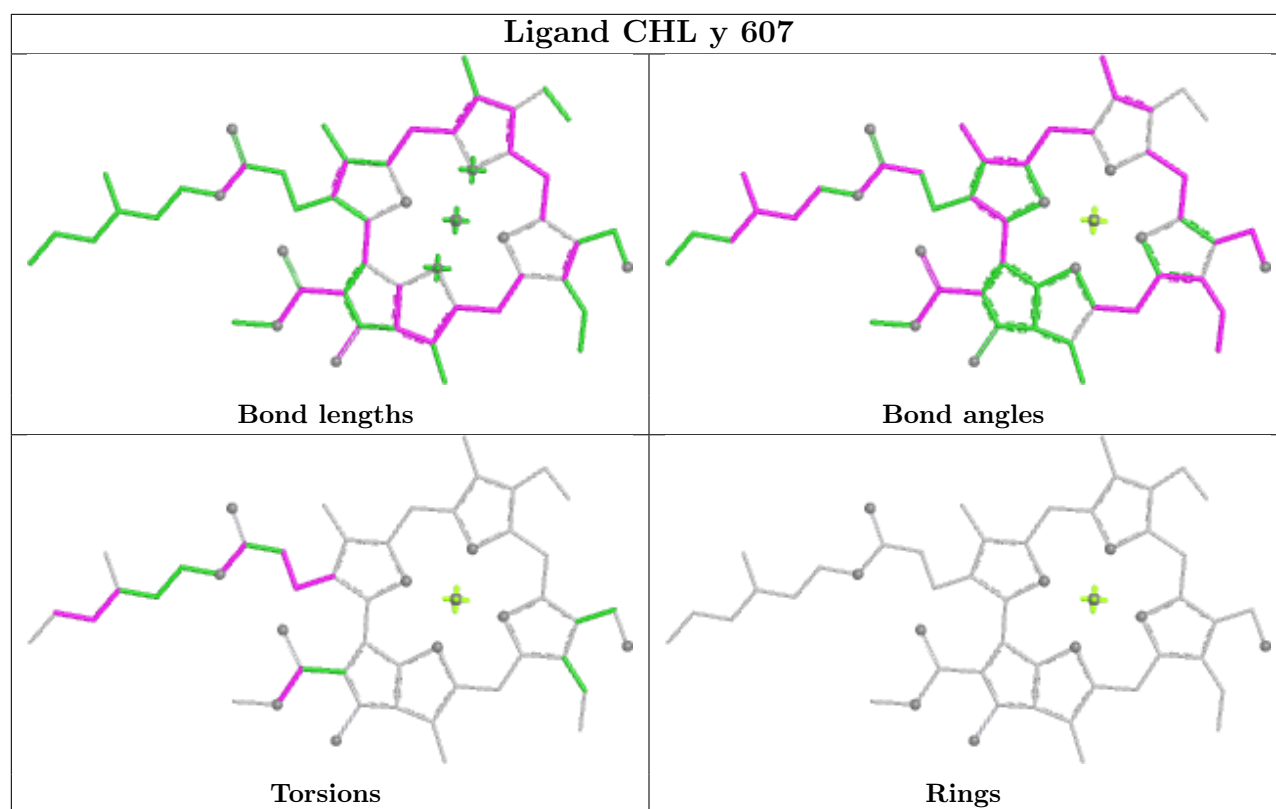


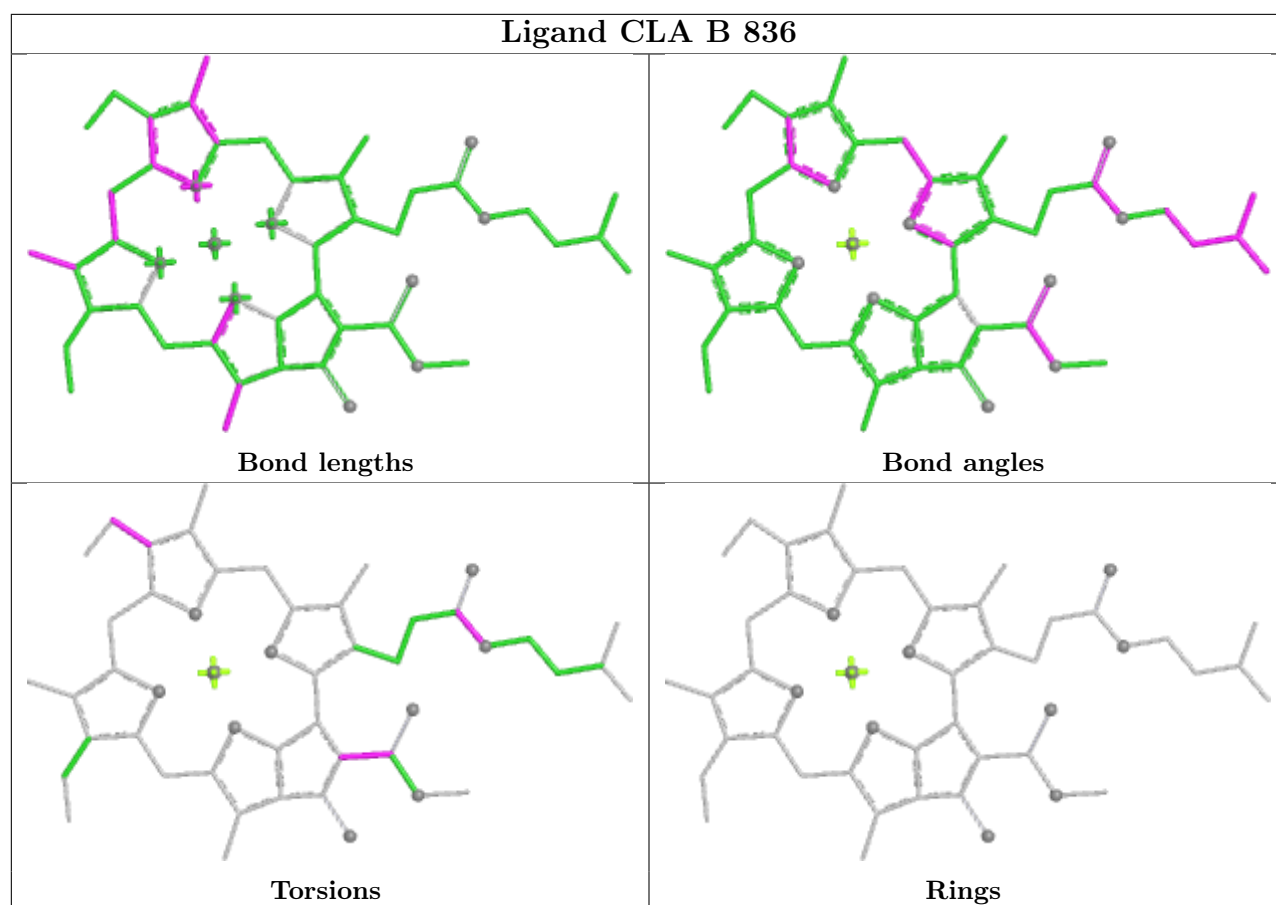
Torsions

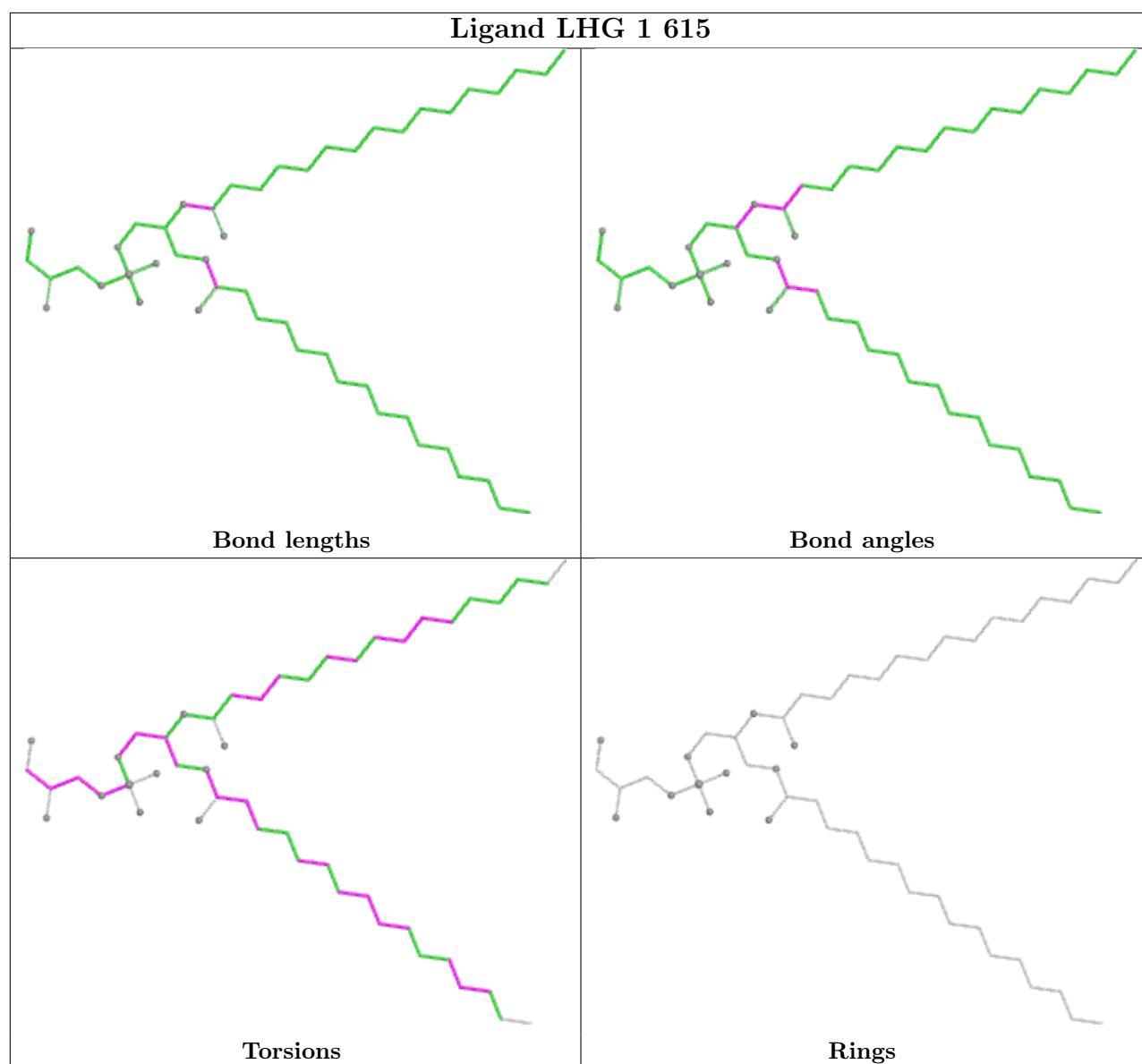


Rings

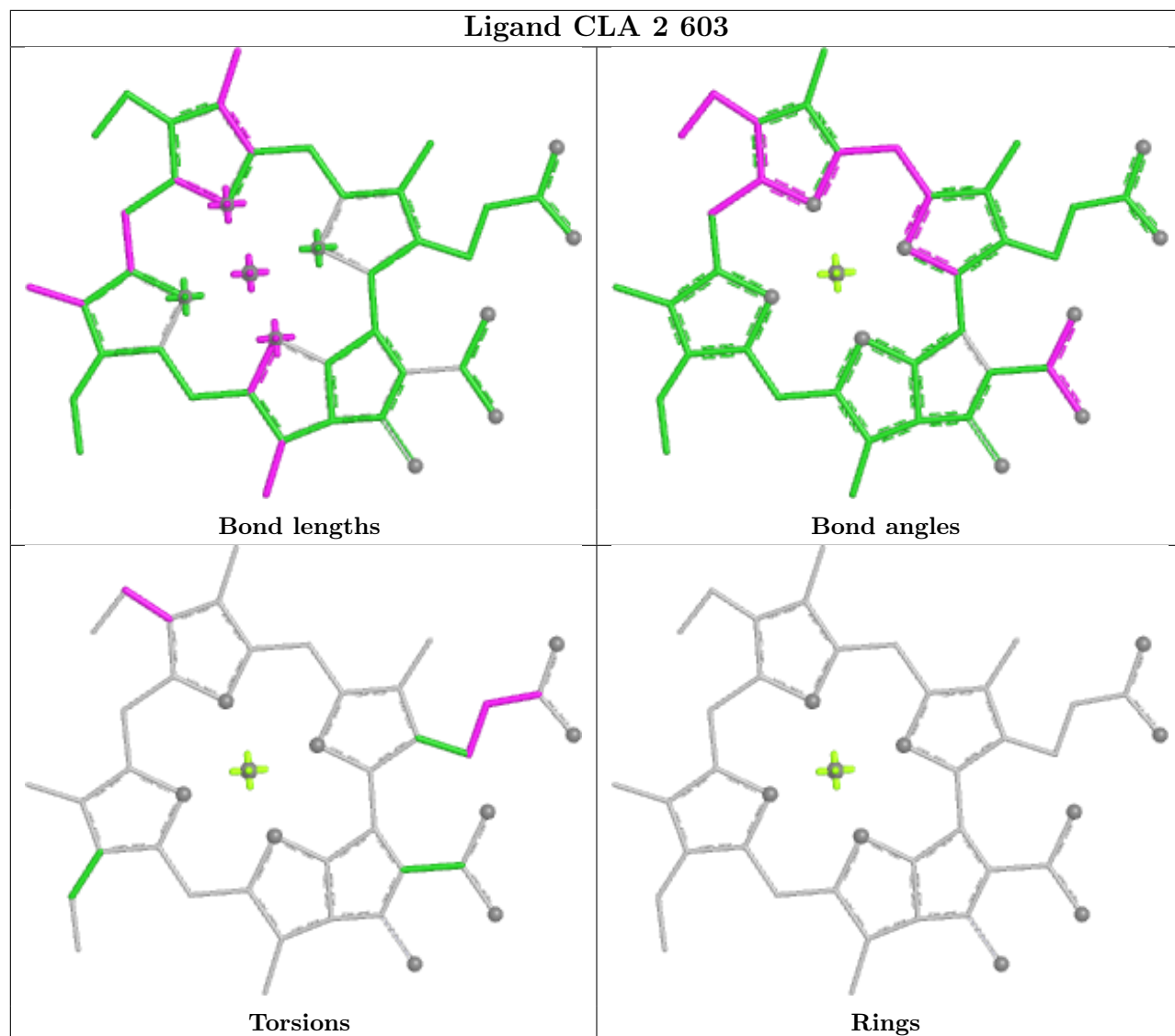


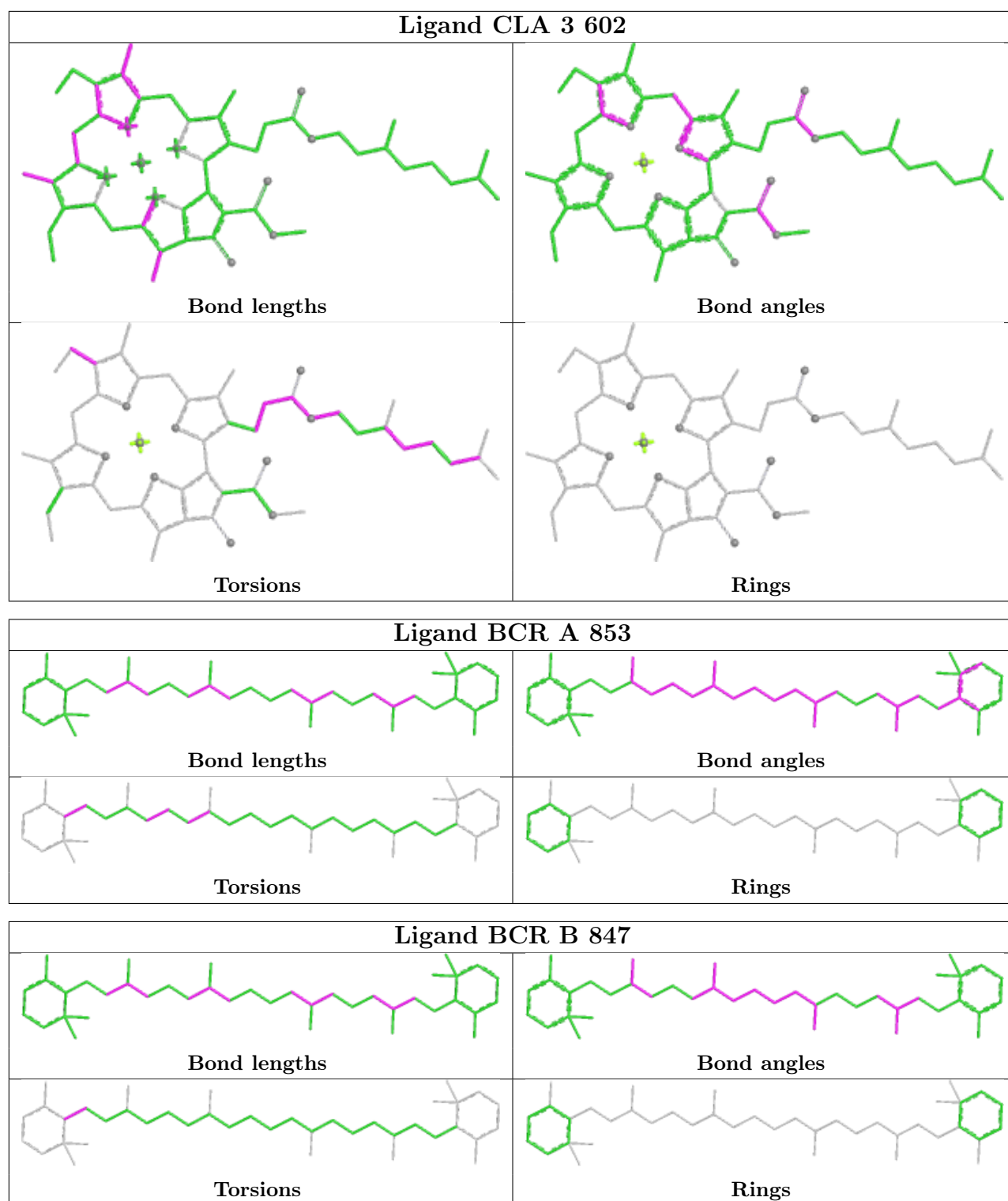




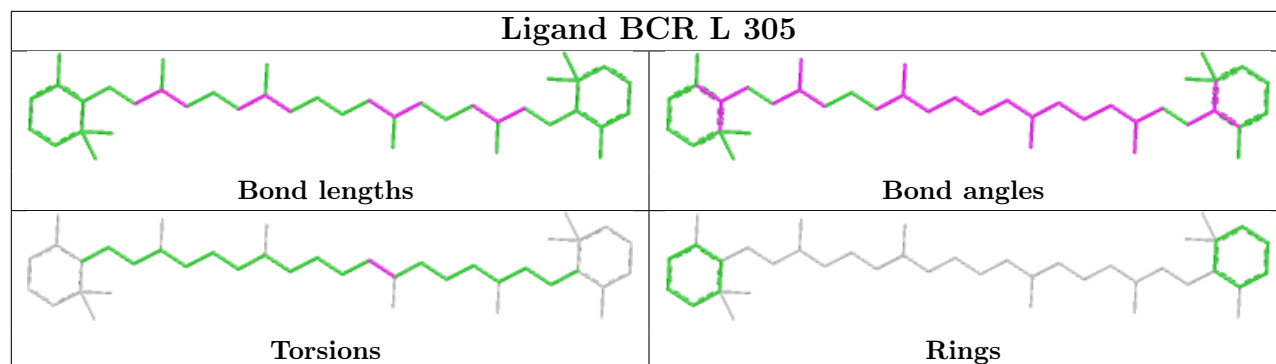


Ligand CLA 2 603

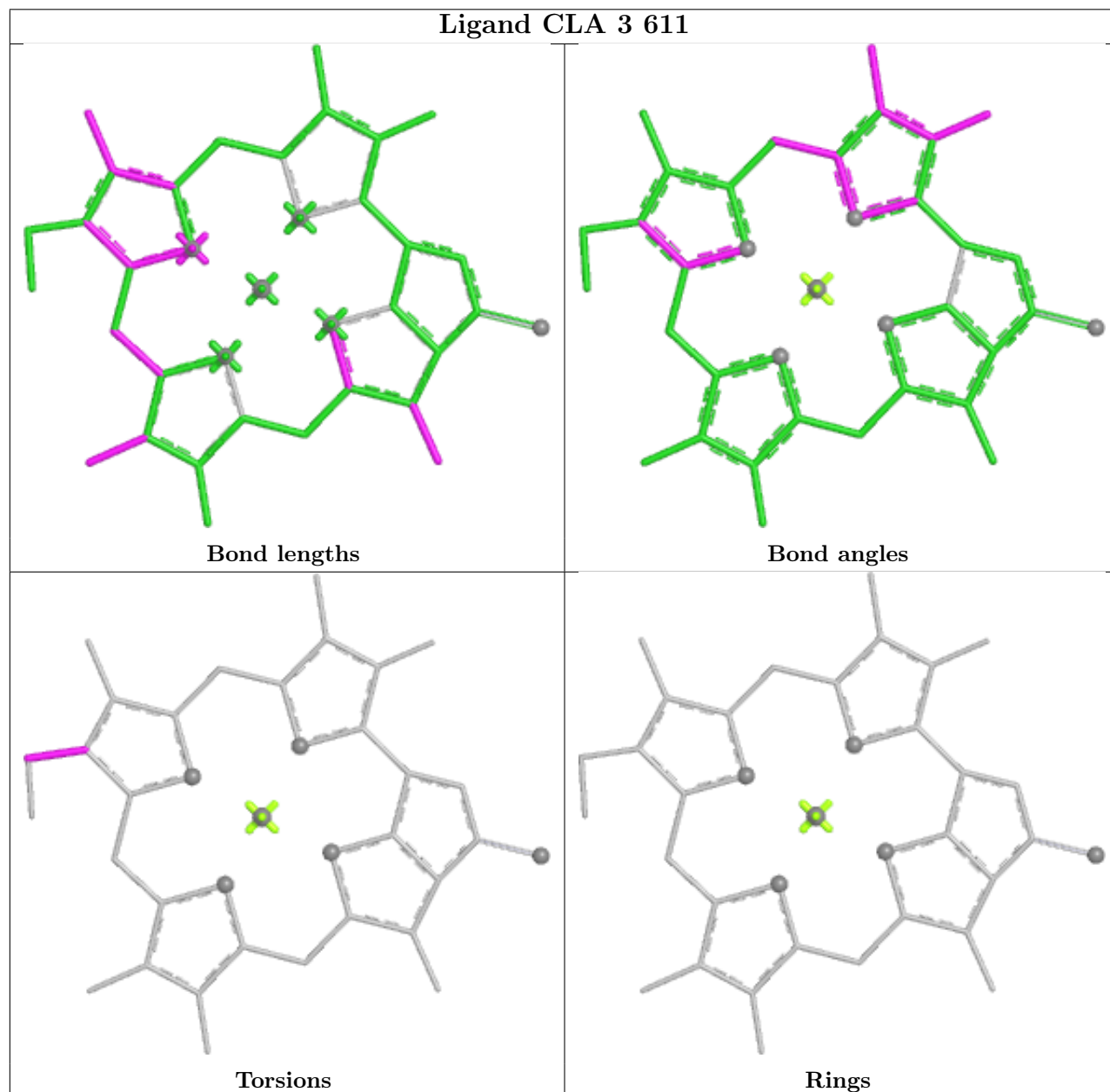


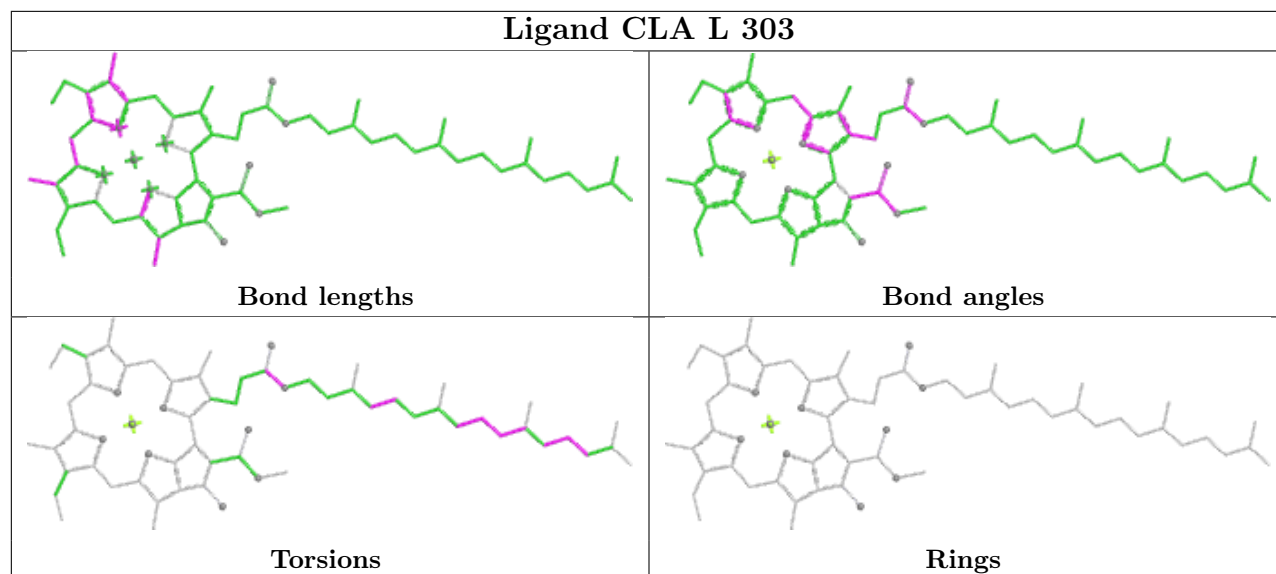
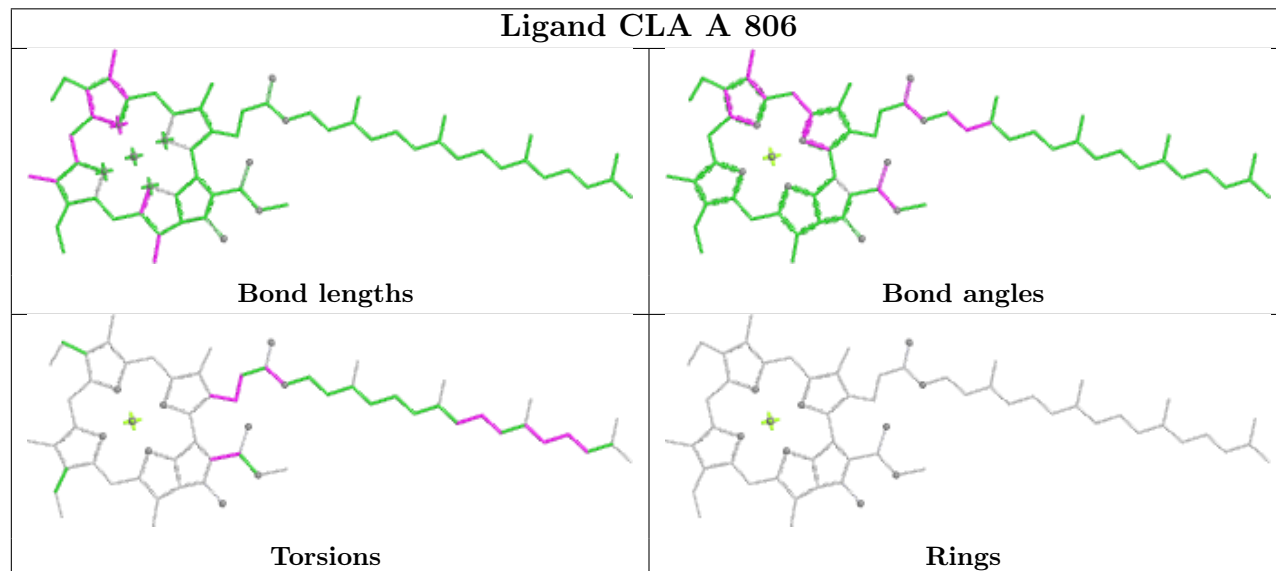


Ligand BCR L 305

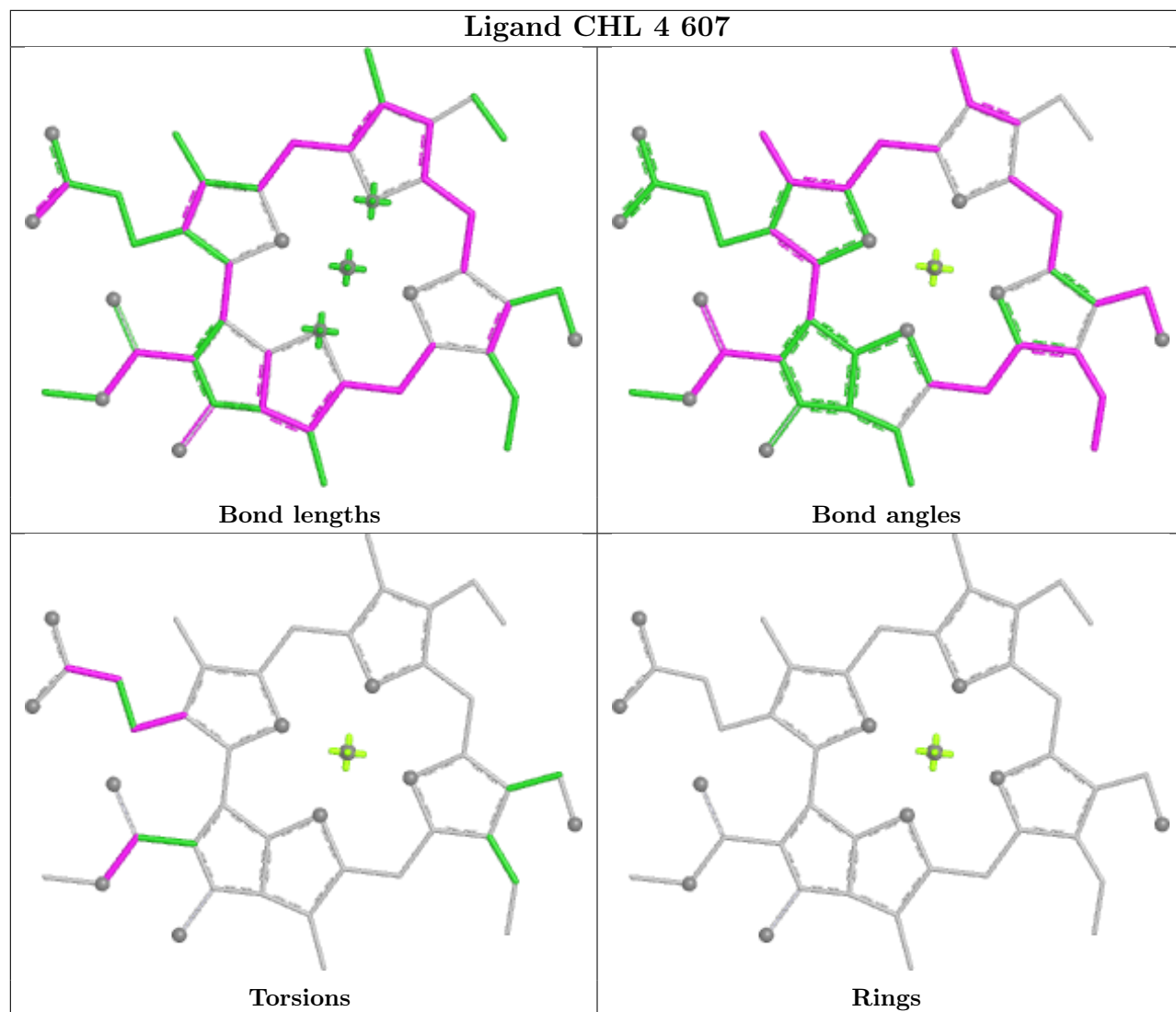


Ligand CLA 3 611

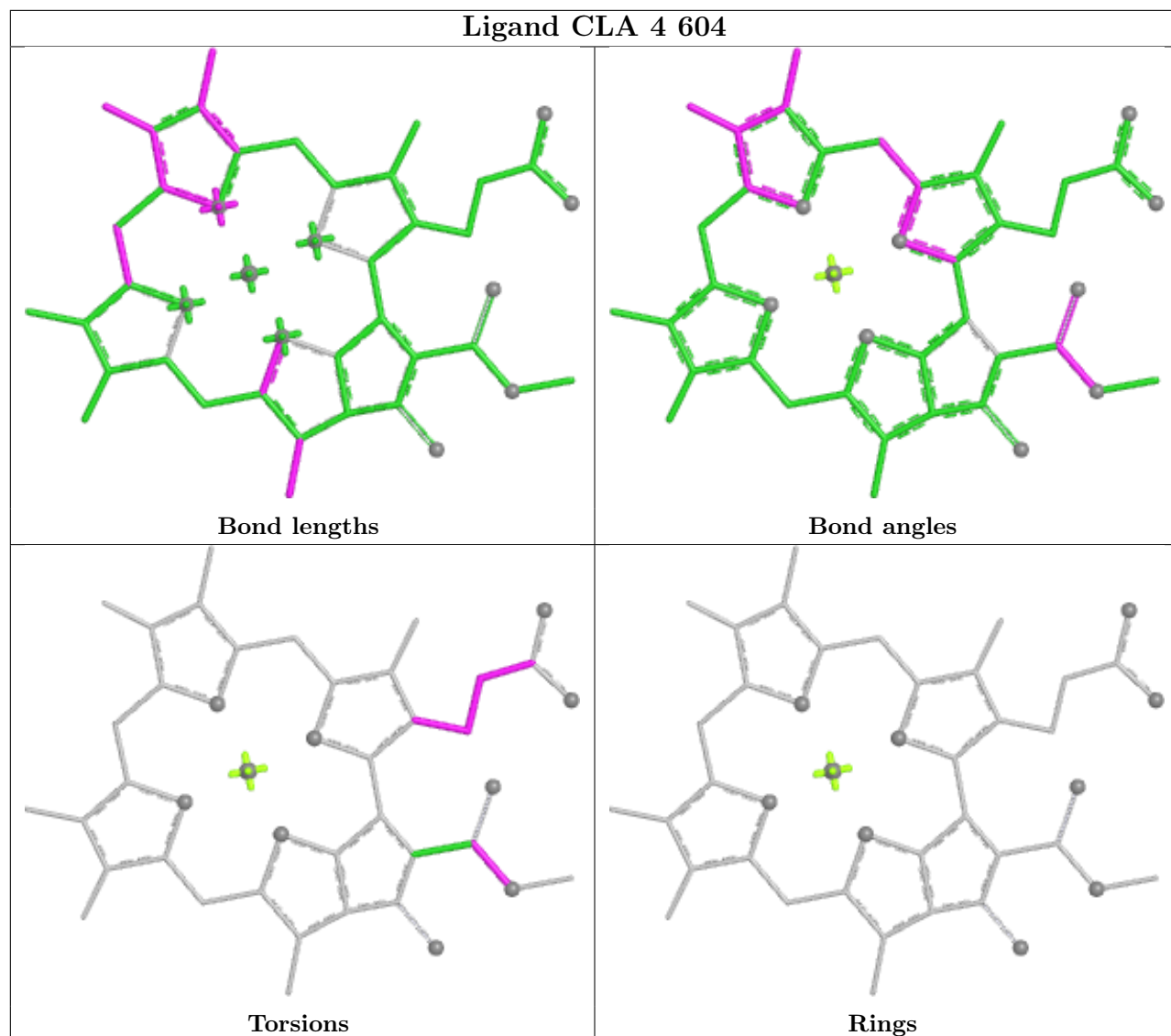


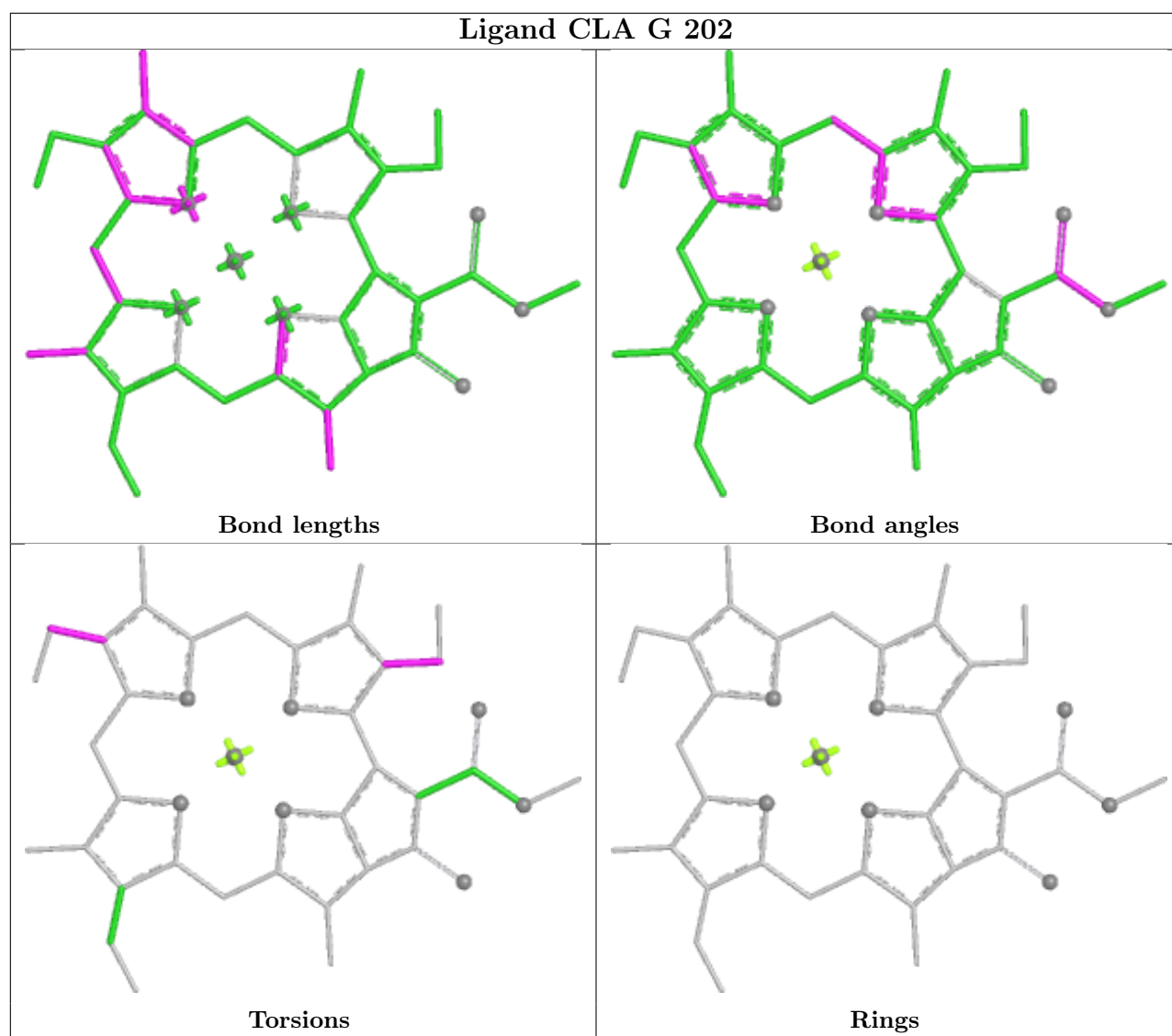
Ligand CLA L 303**Ligand CLA A 806**

Ligand CHL 4 607

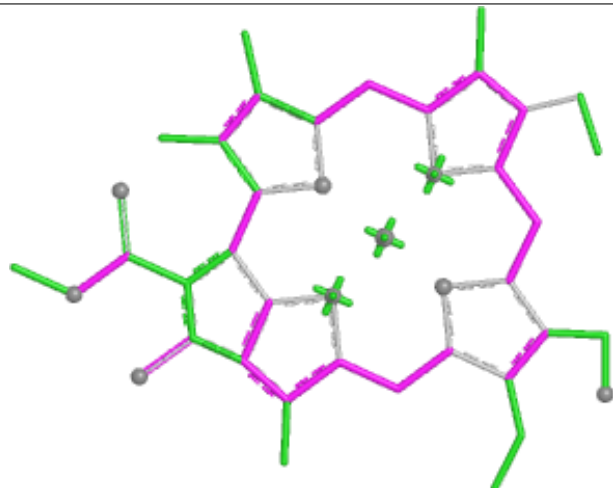


Ligand CLA 4 604

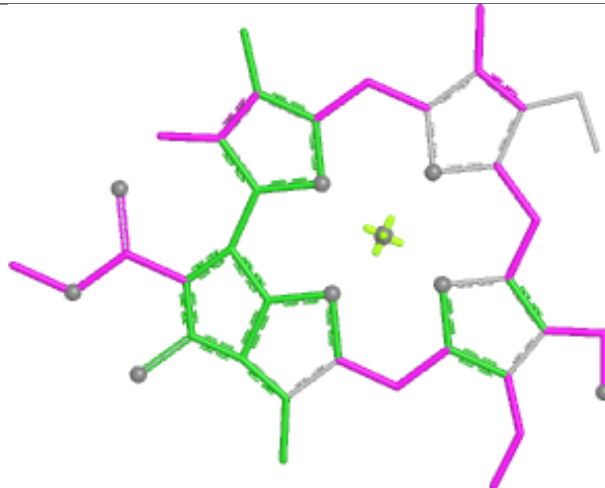




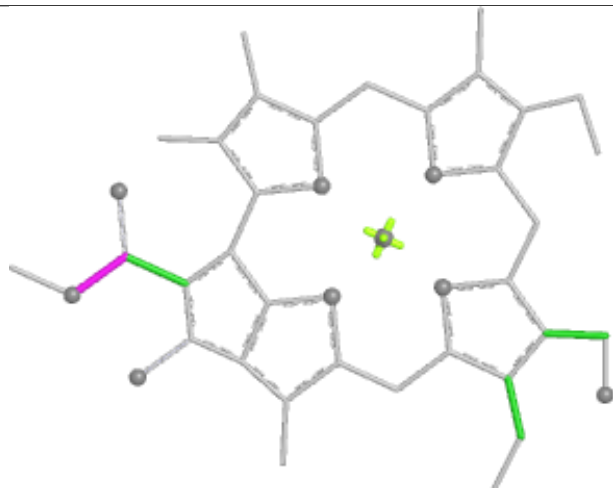
Ligand CHL y 605



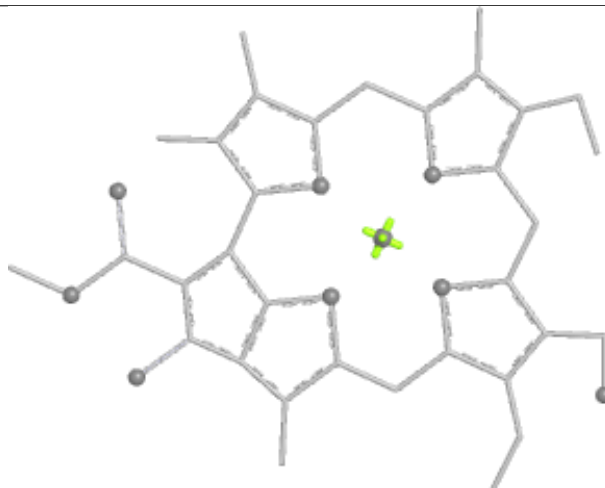
Bond lengths



Bond angles

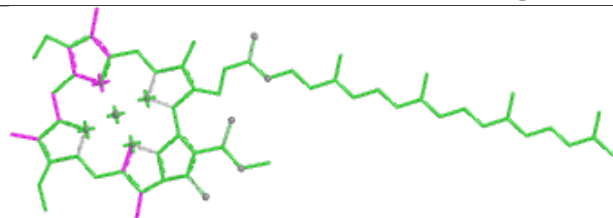


Torsions

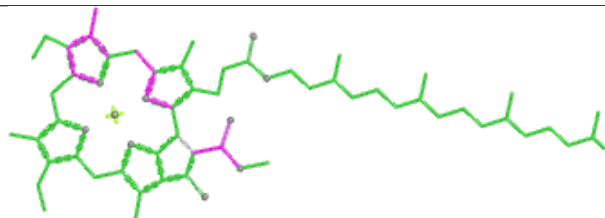


Rings

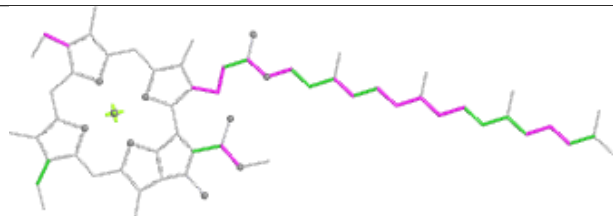
Ligand CLA A 820



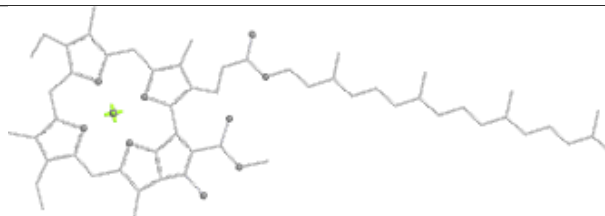
Bond lengths



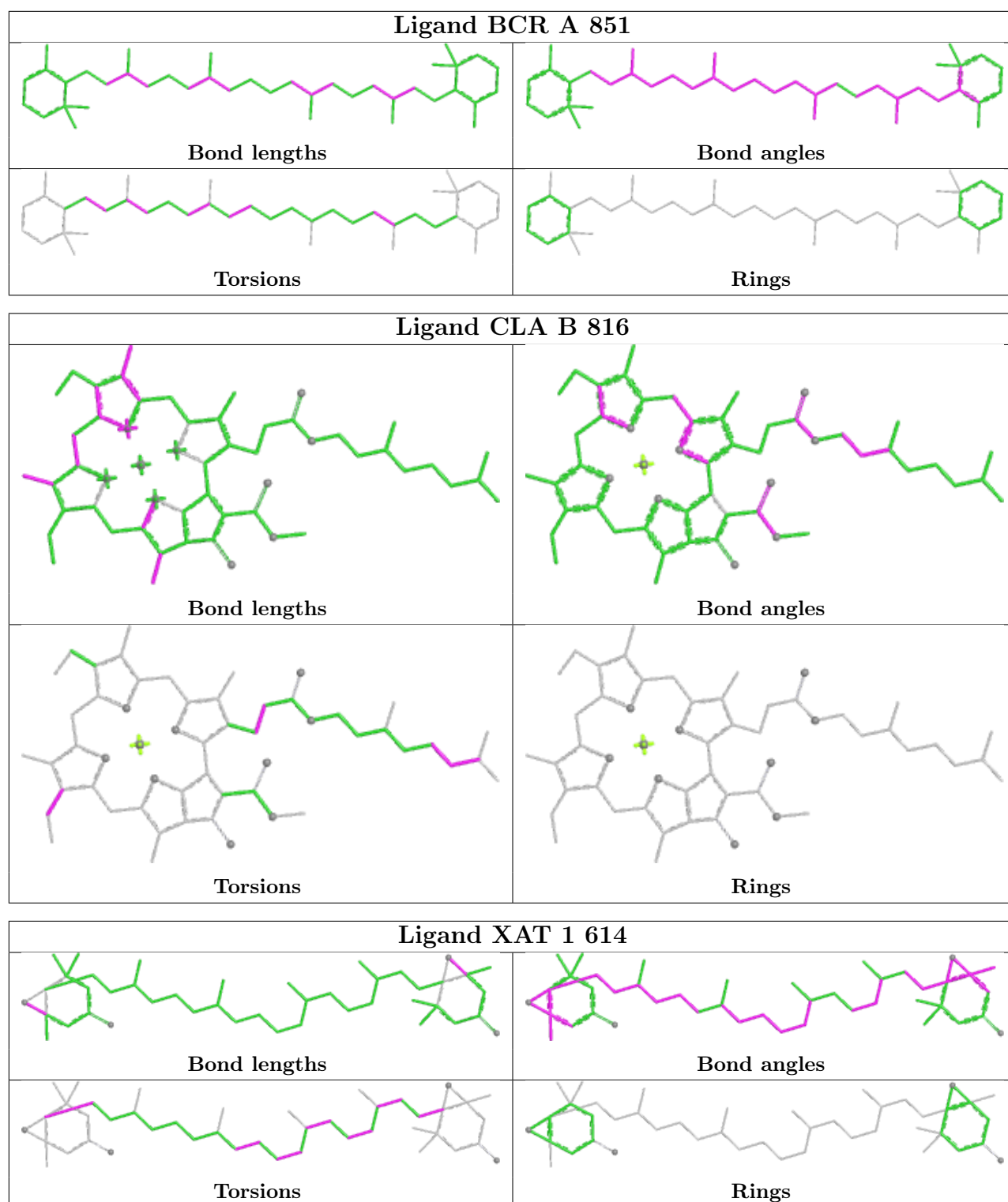
Bond angles



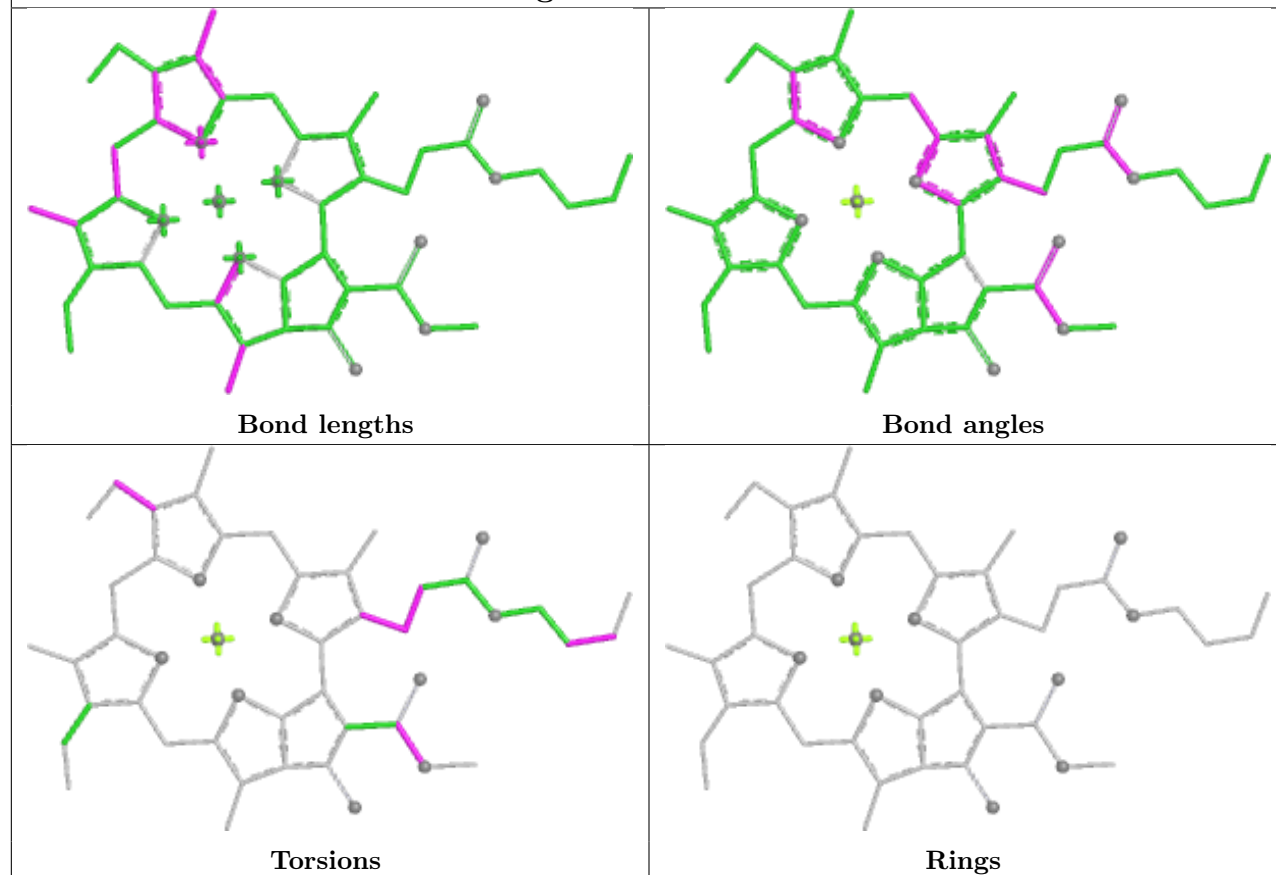
Torsions



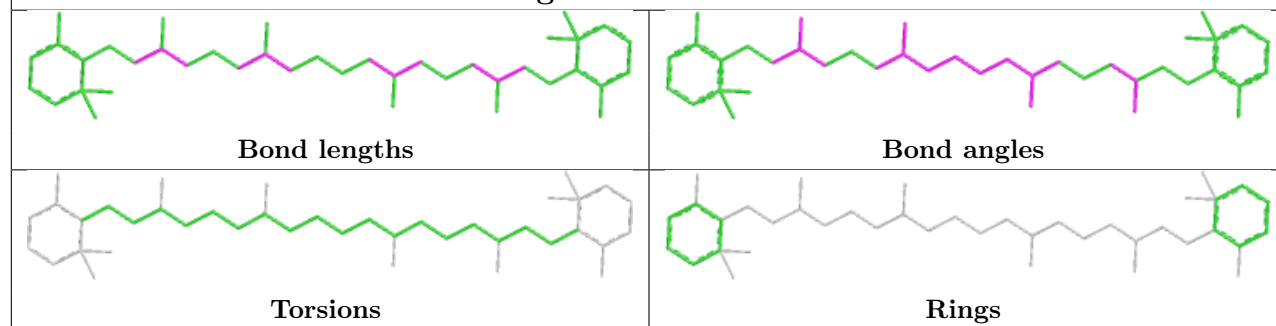
Rings

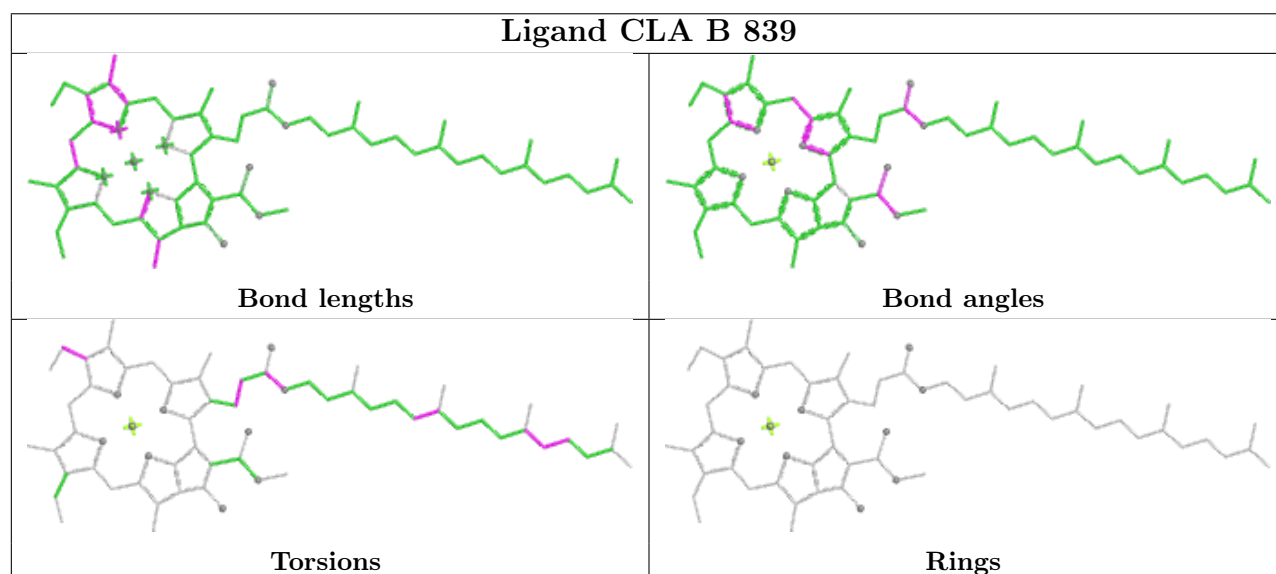
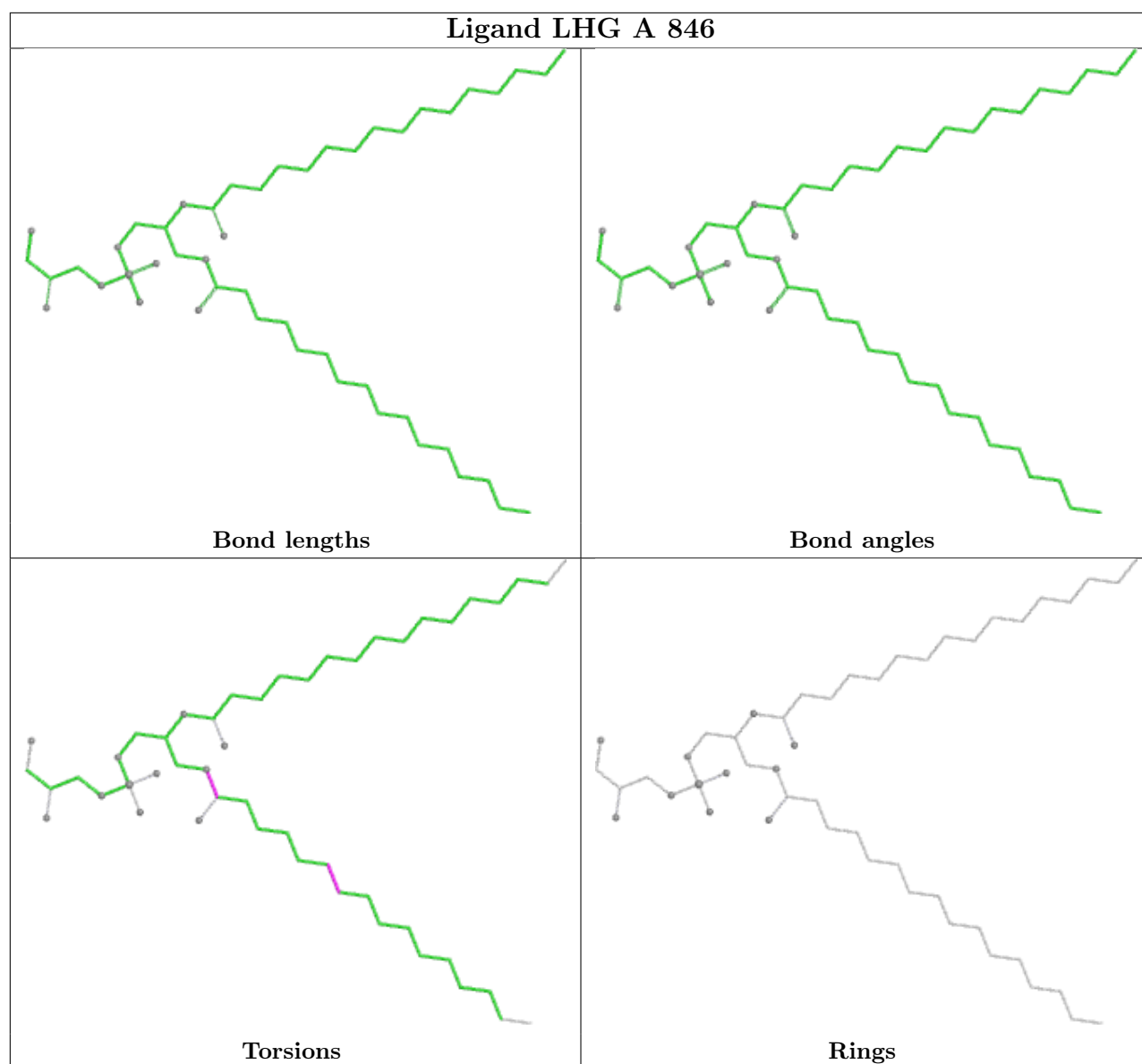


Ligand CLA 1 604

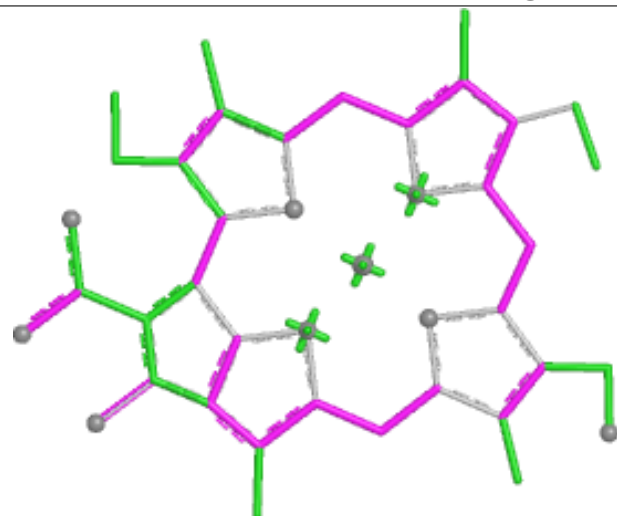


Ligand BCR I 101

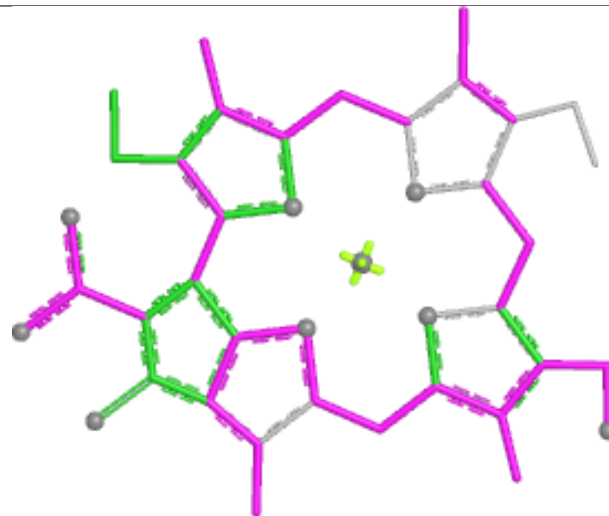




Ligand CHL 4 605



Bond lengths



Bond angles

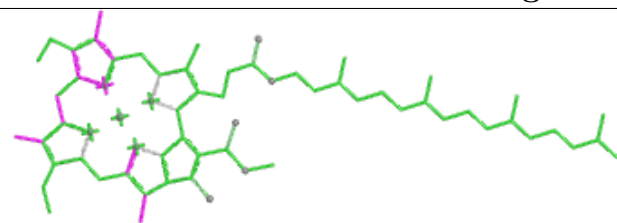


Torsions

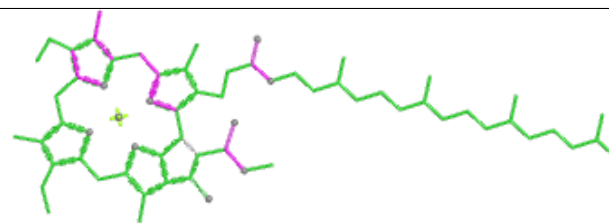


Rings

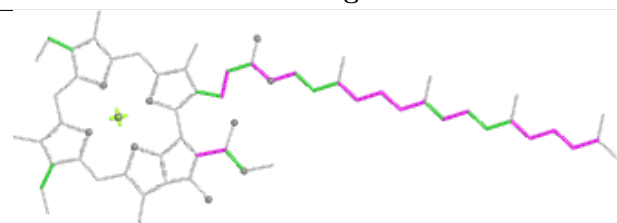
Ligand CLA 2 602



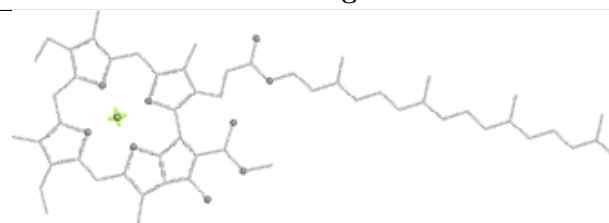
Bond lengths



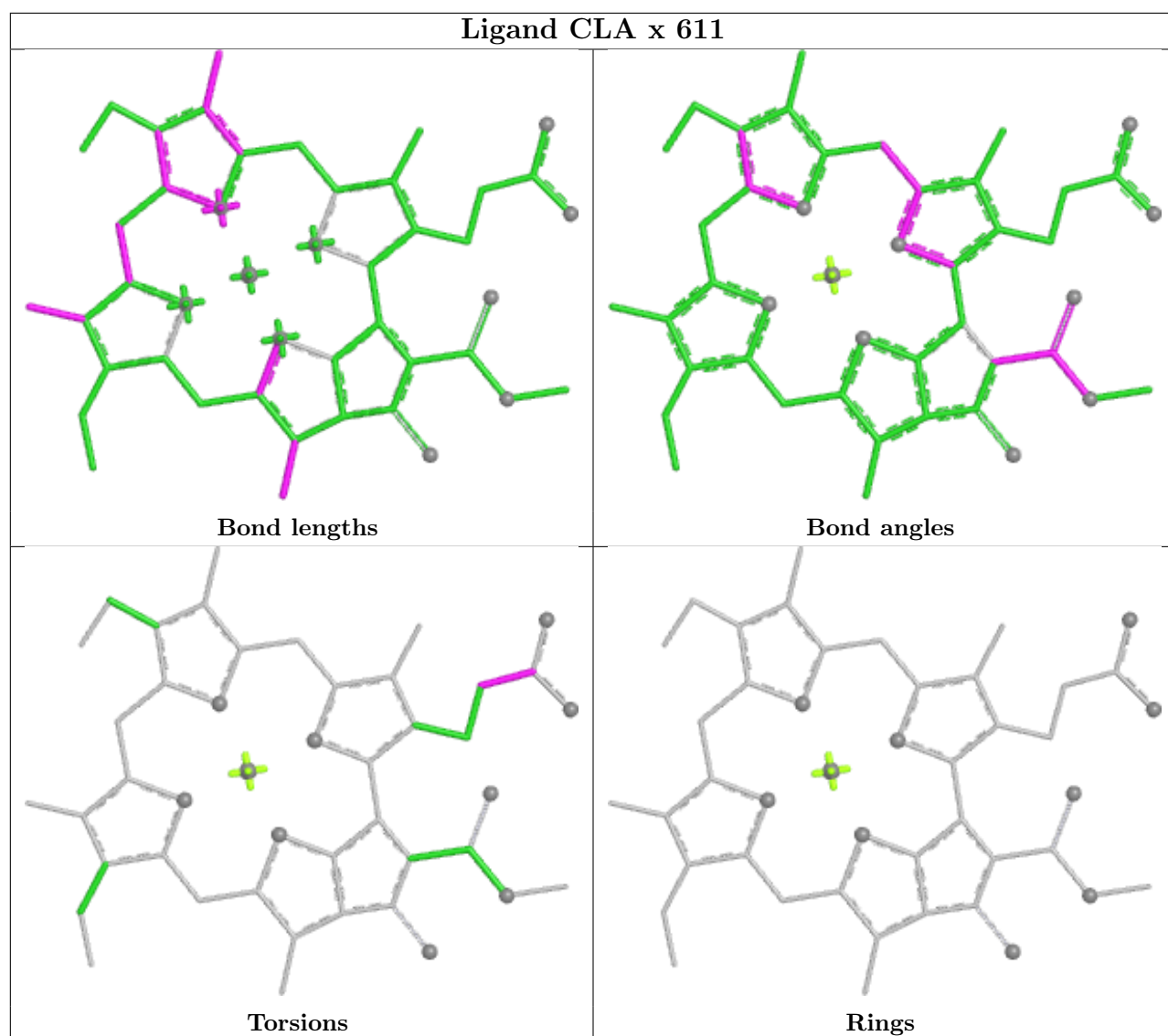
Bond angles

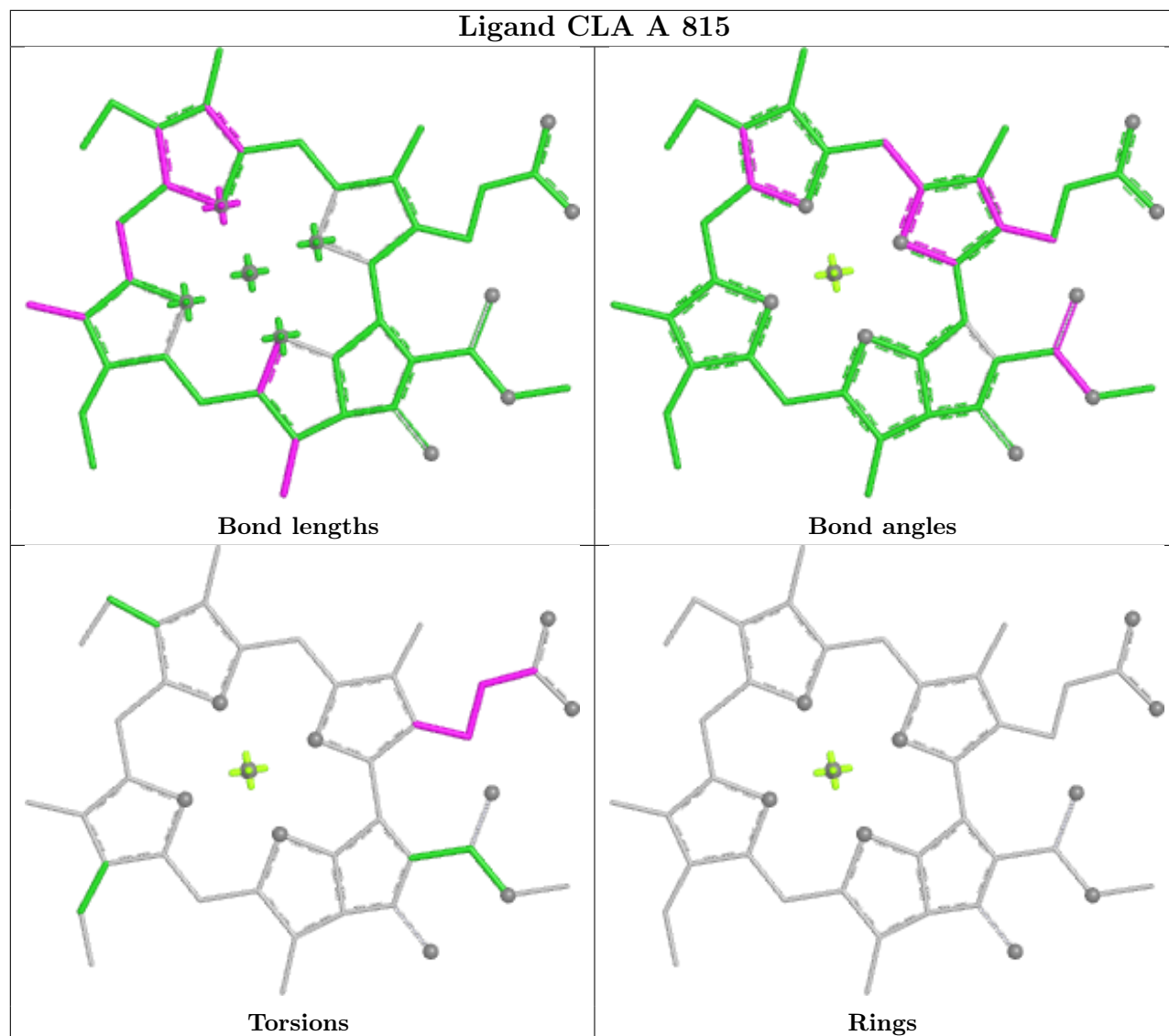


Torsions

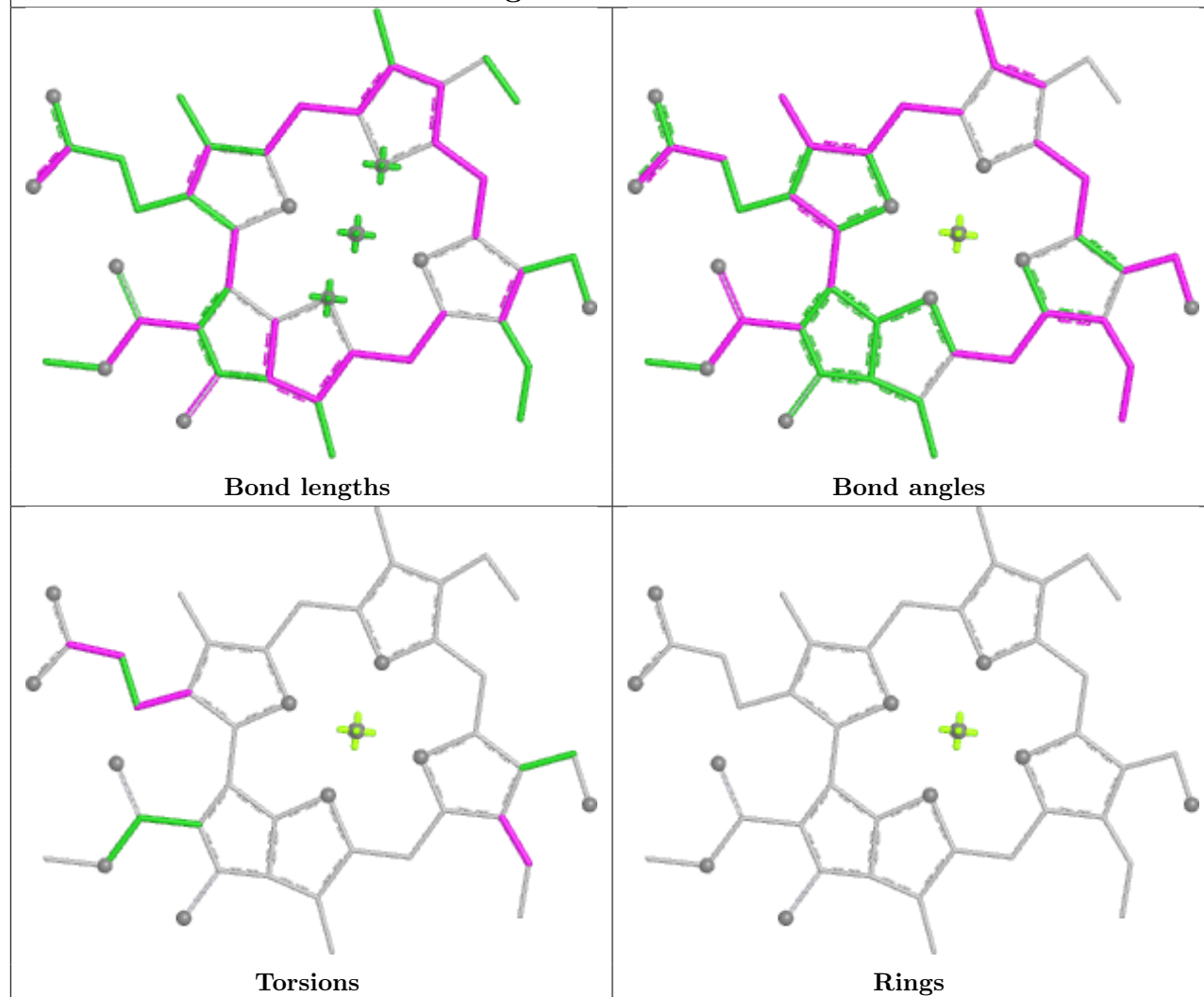


Rings

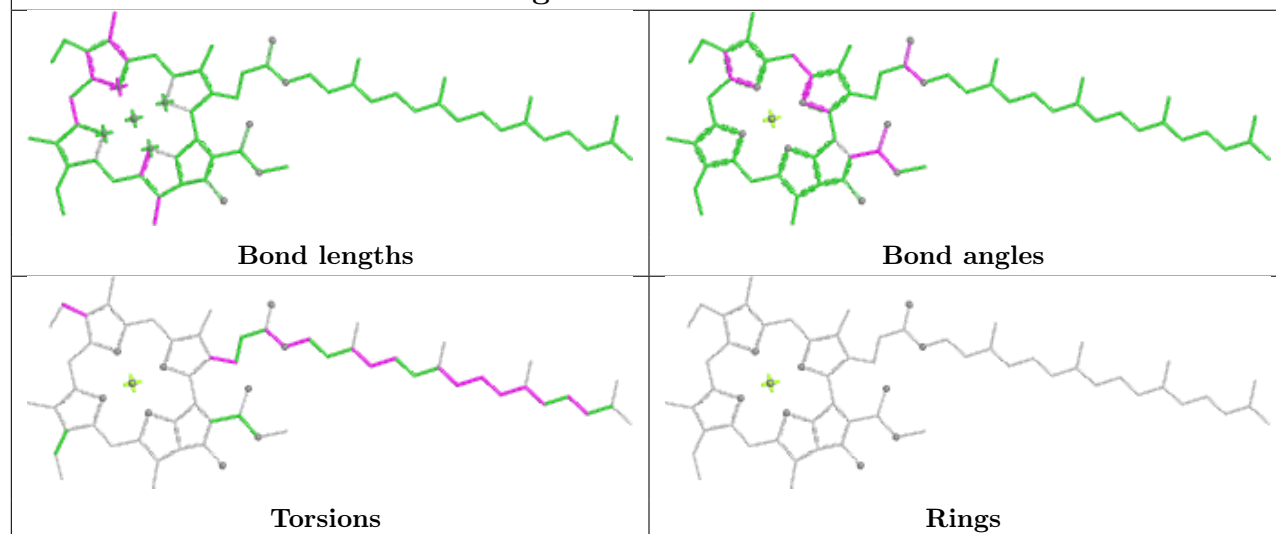




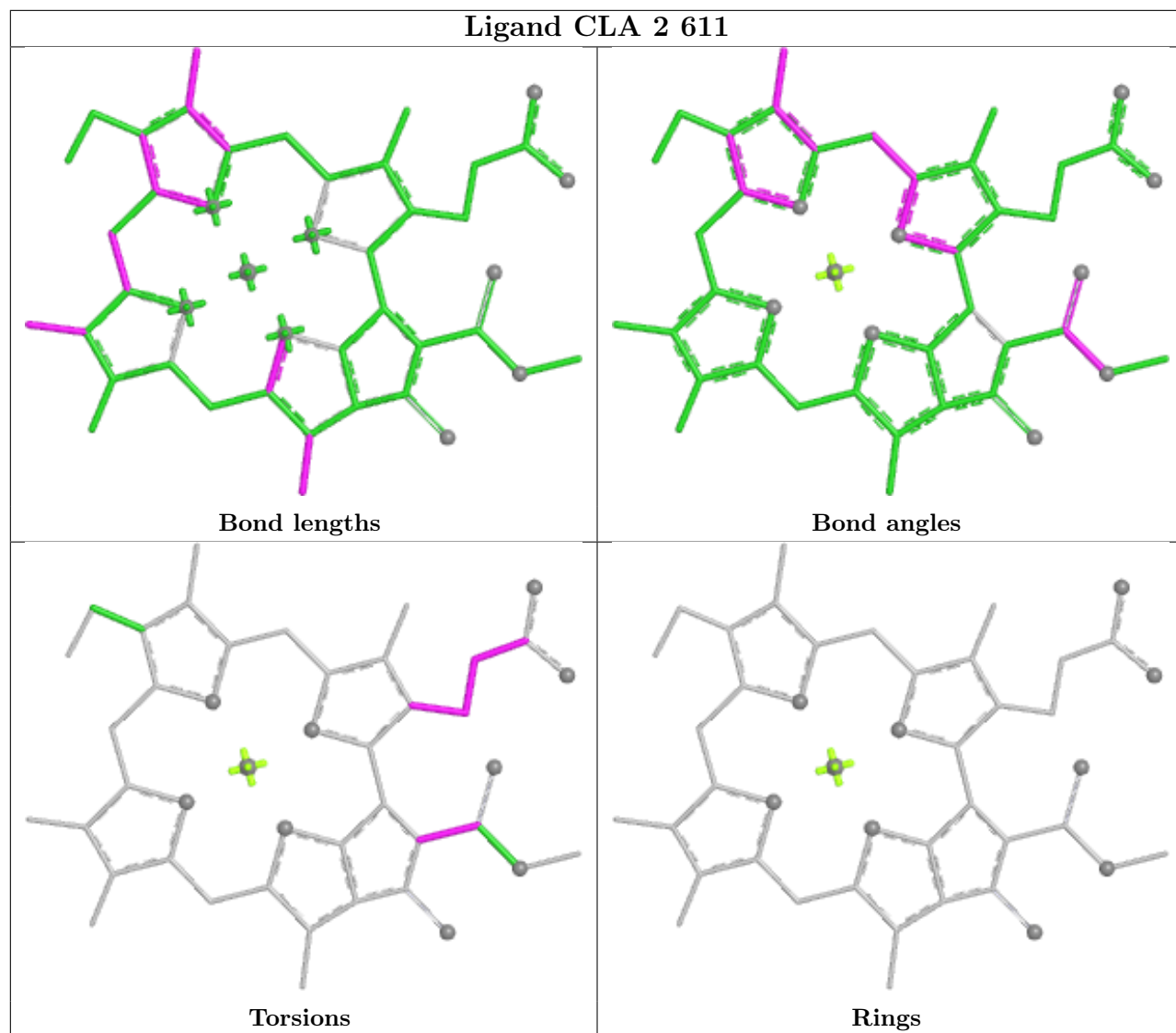
Ligand CHL x 609



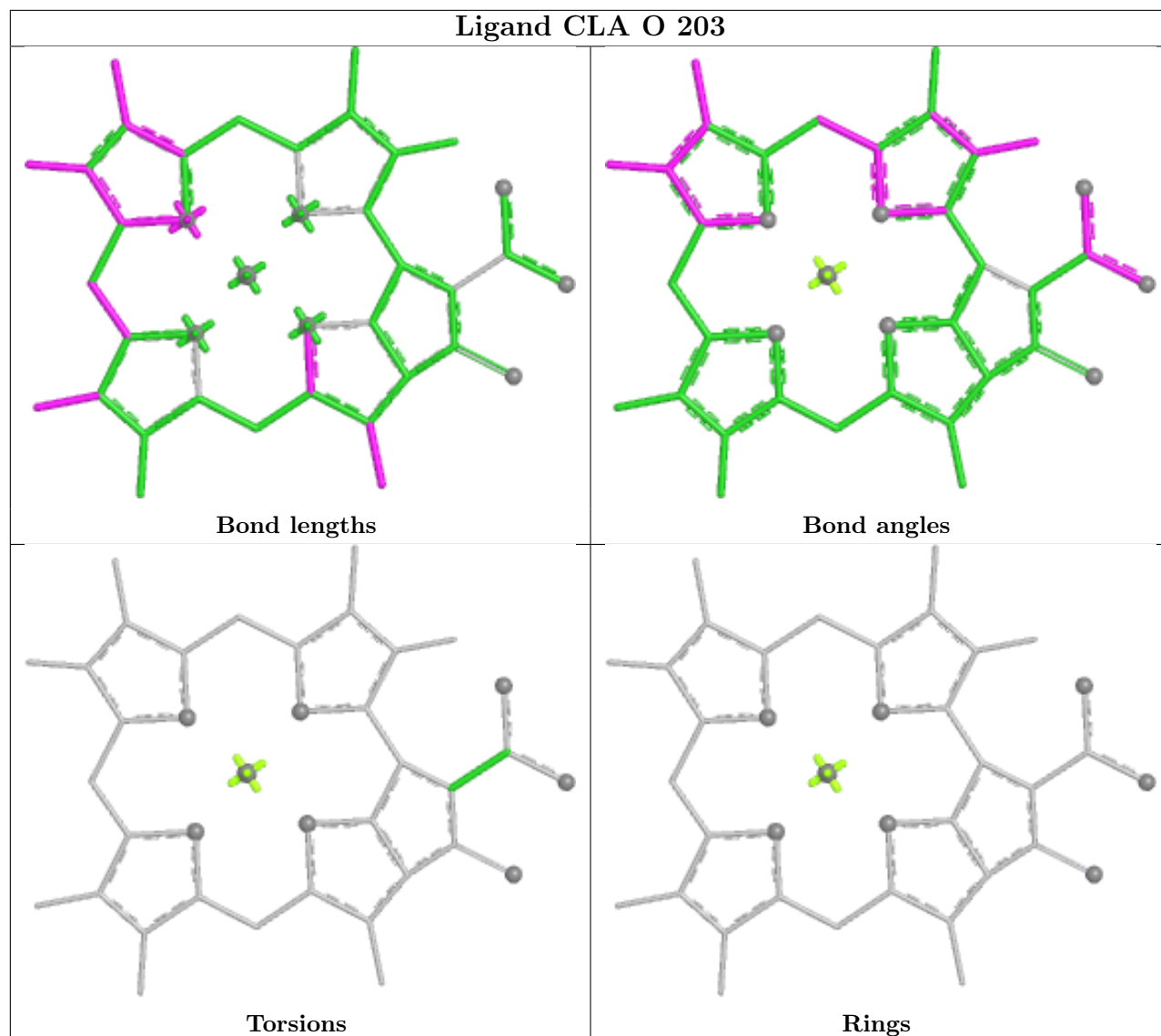
Ligand CLA B 827

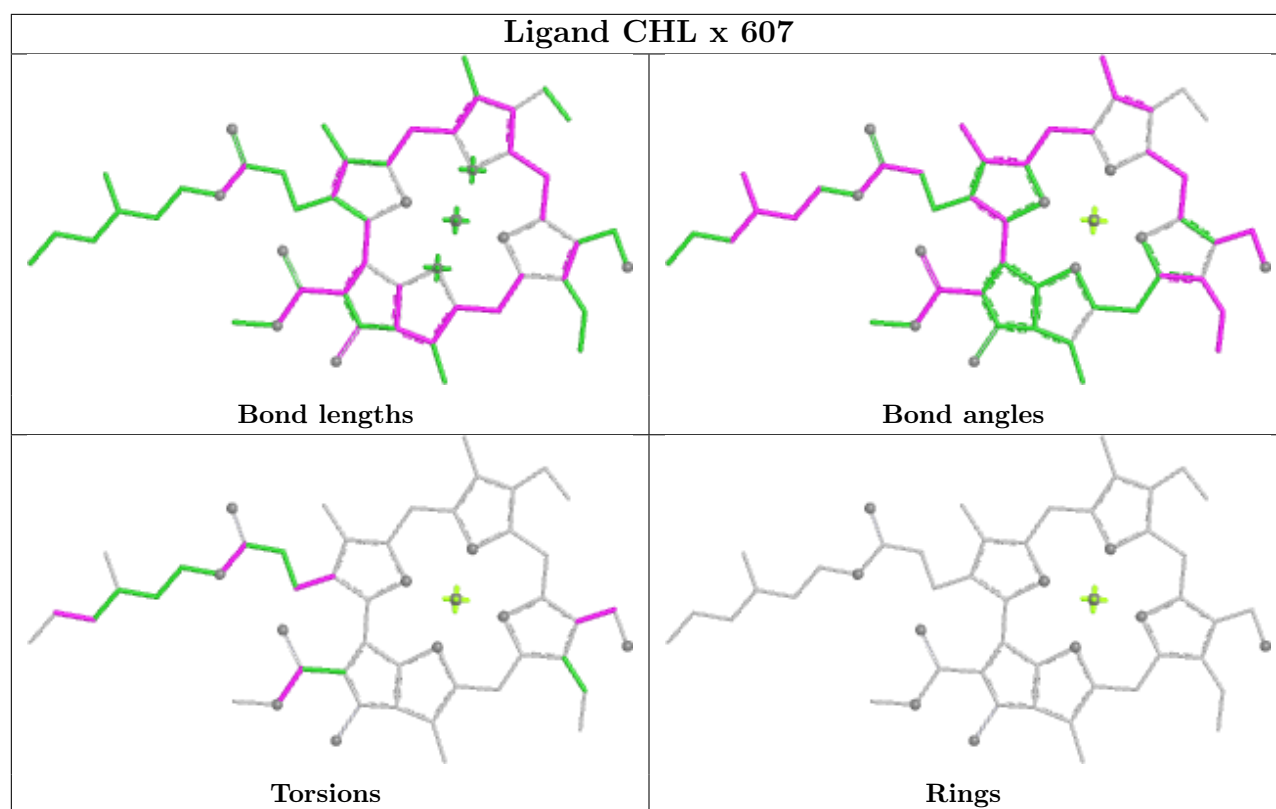


Ligand CLA 2 611

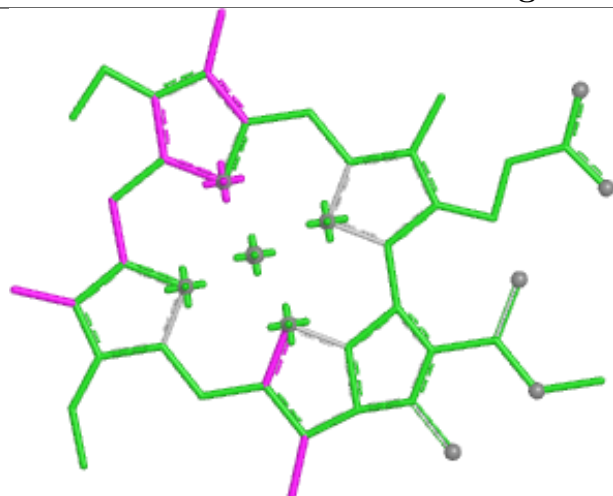


Ligand CLA O 203

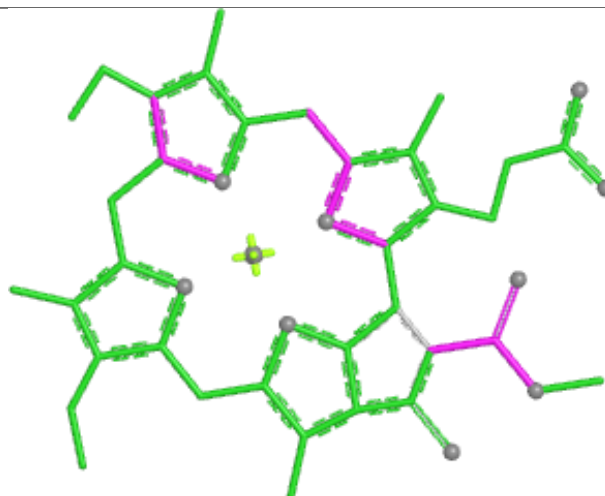




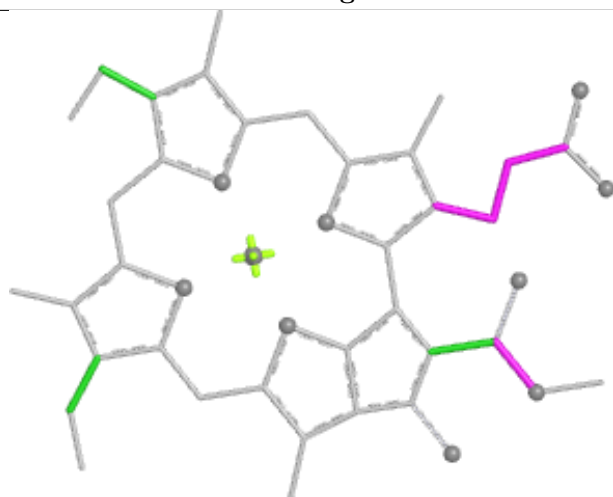
Ligand CLA 2 608



Bond lengths



Bond angles

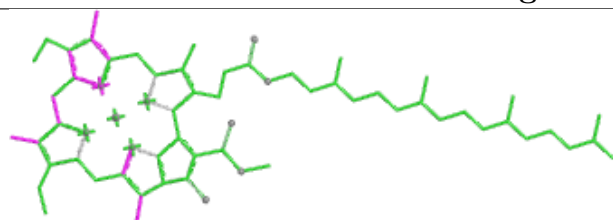


Torsions

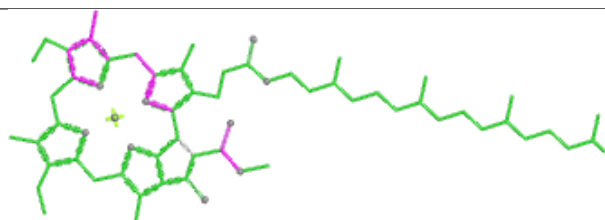


Rings

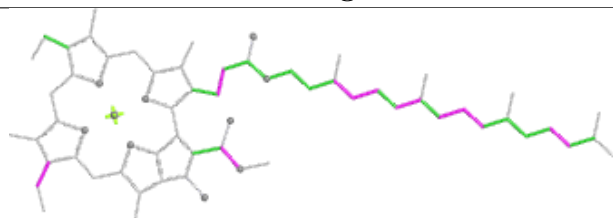
Ligand CLA z 613



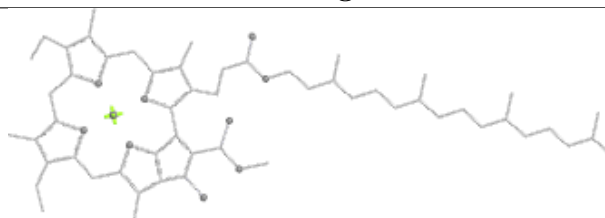
Bond lengths



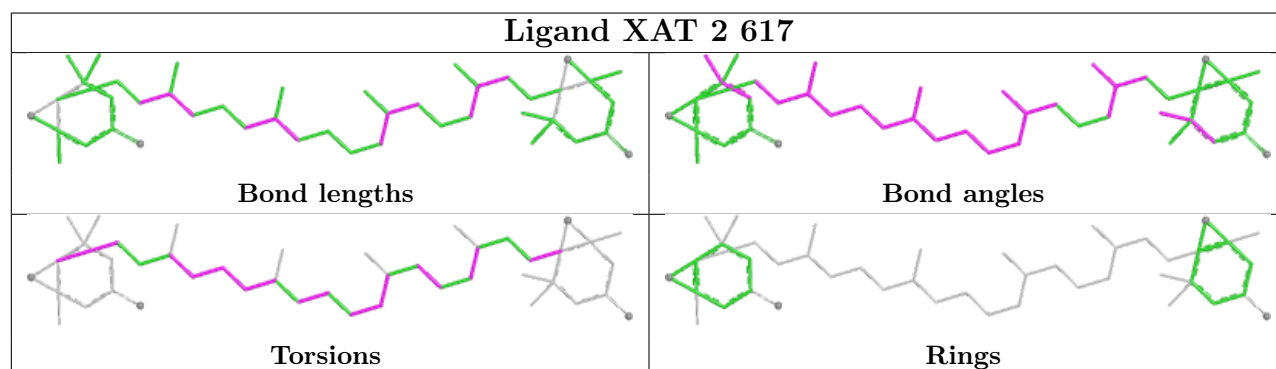
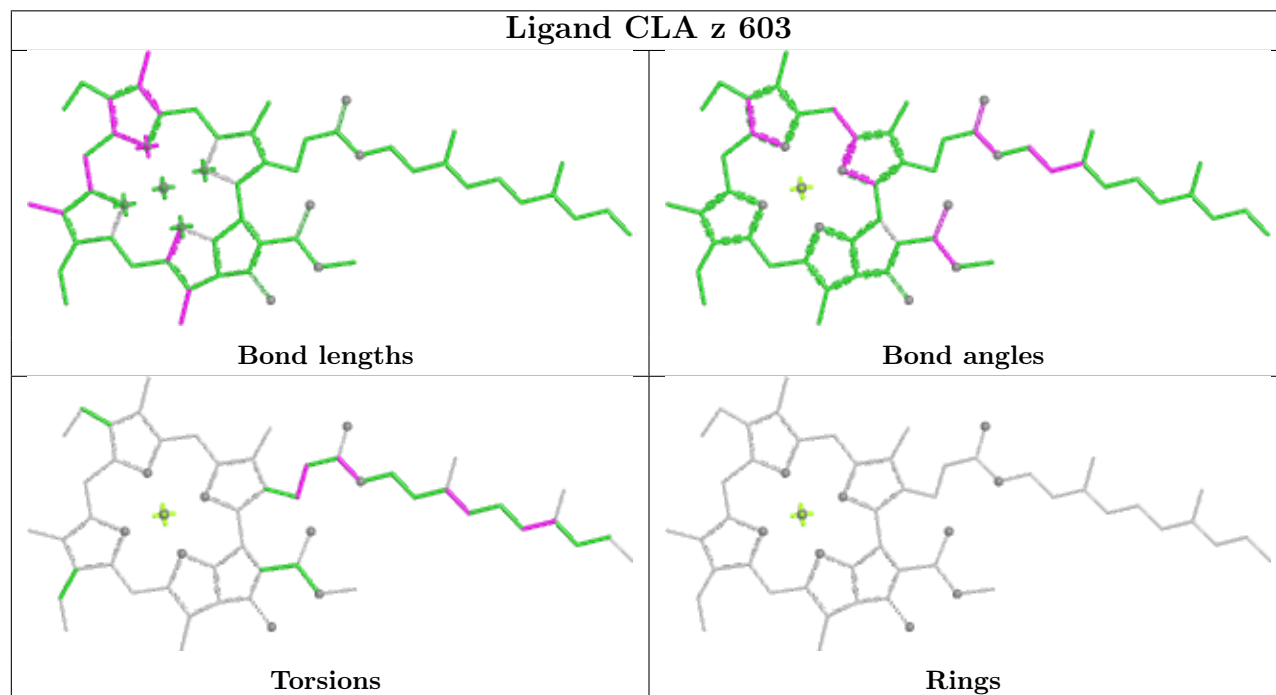
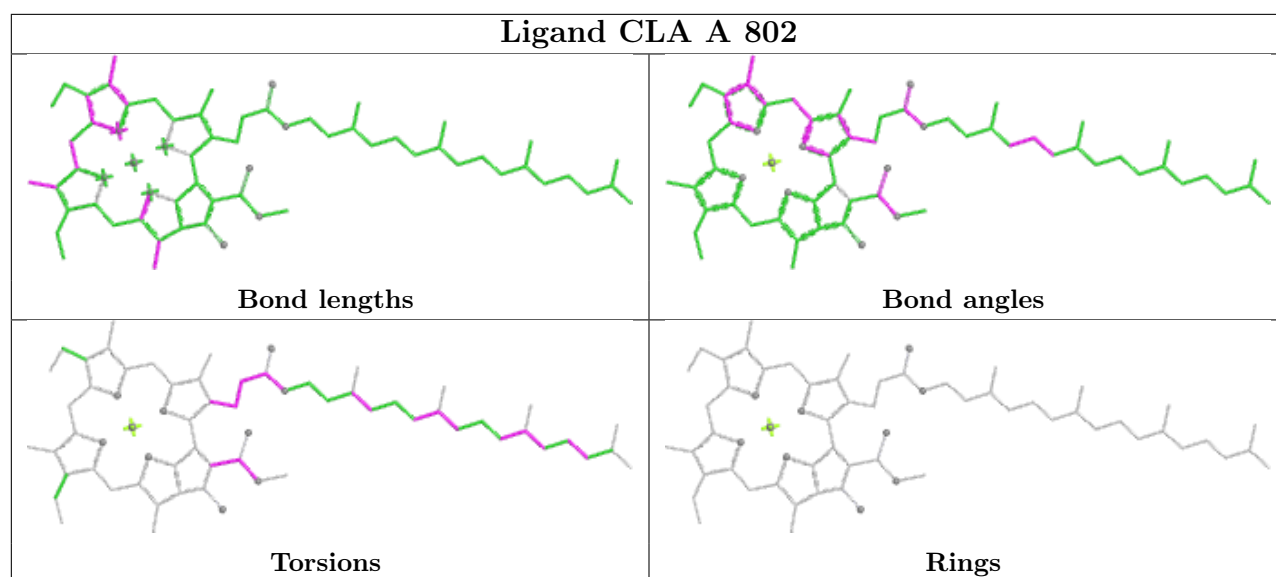
Bond angles



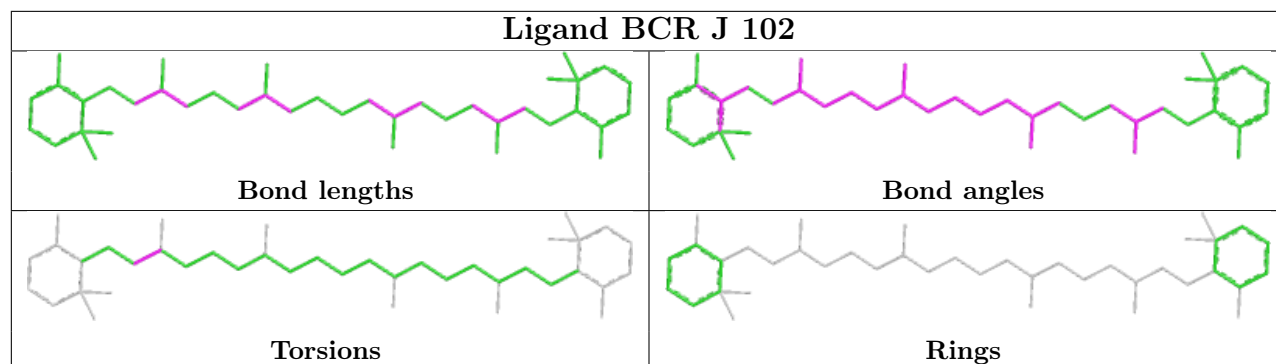
Torsions



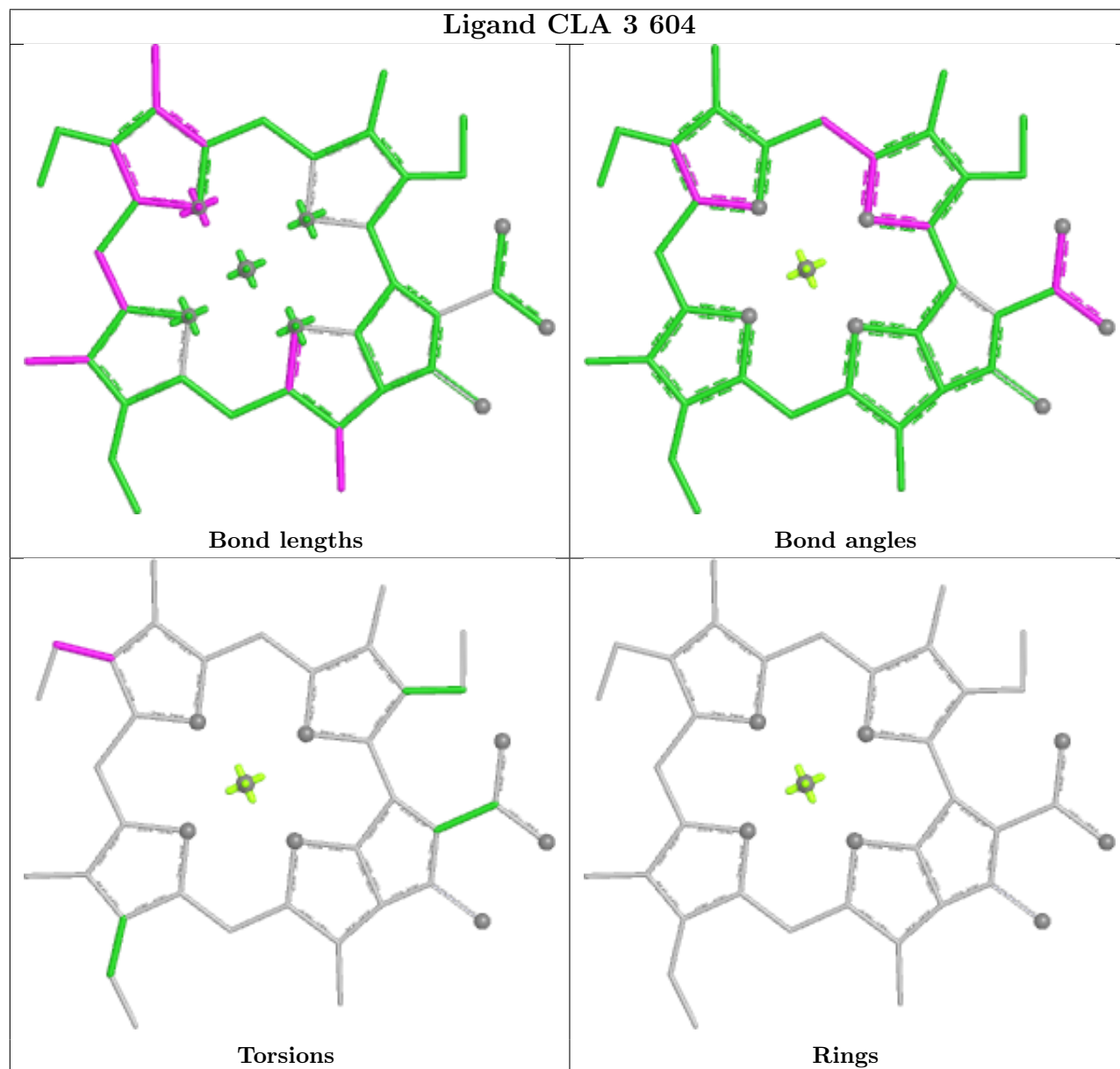
Rings



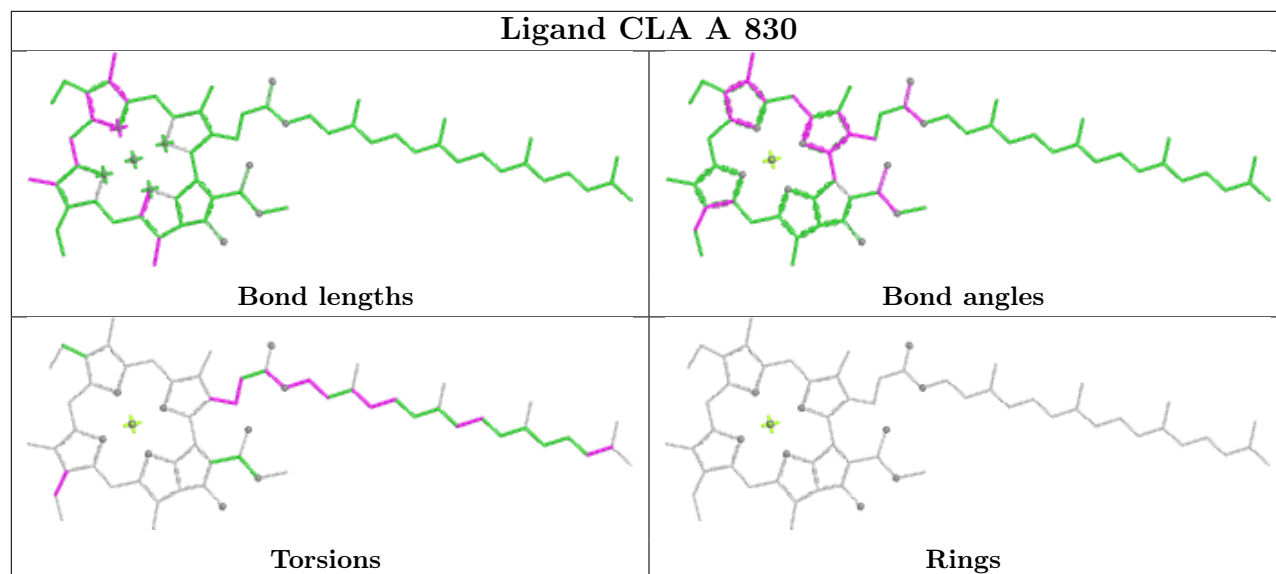
Ligand BCR J 102



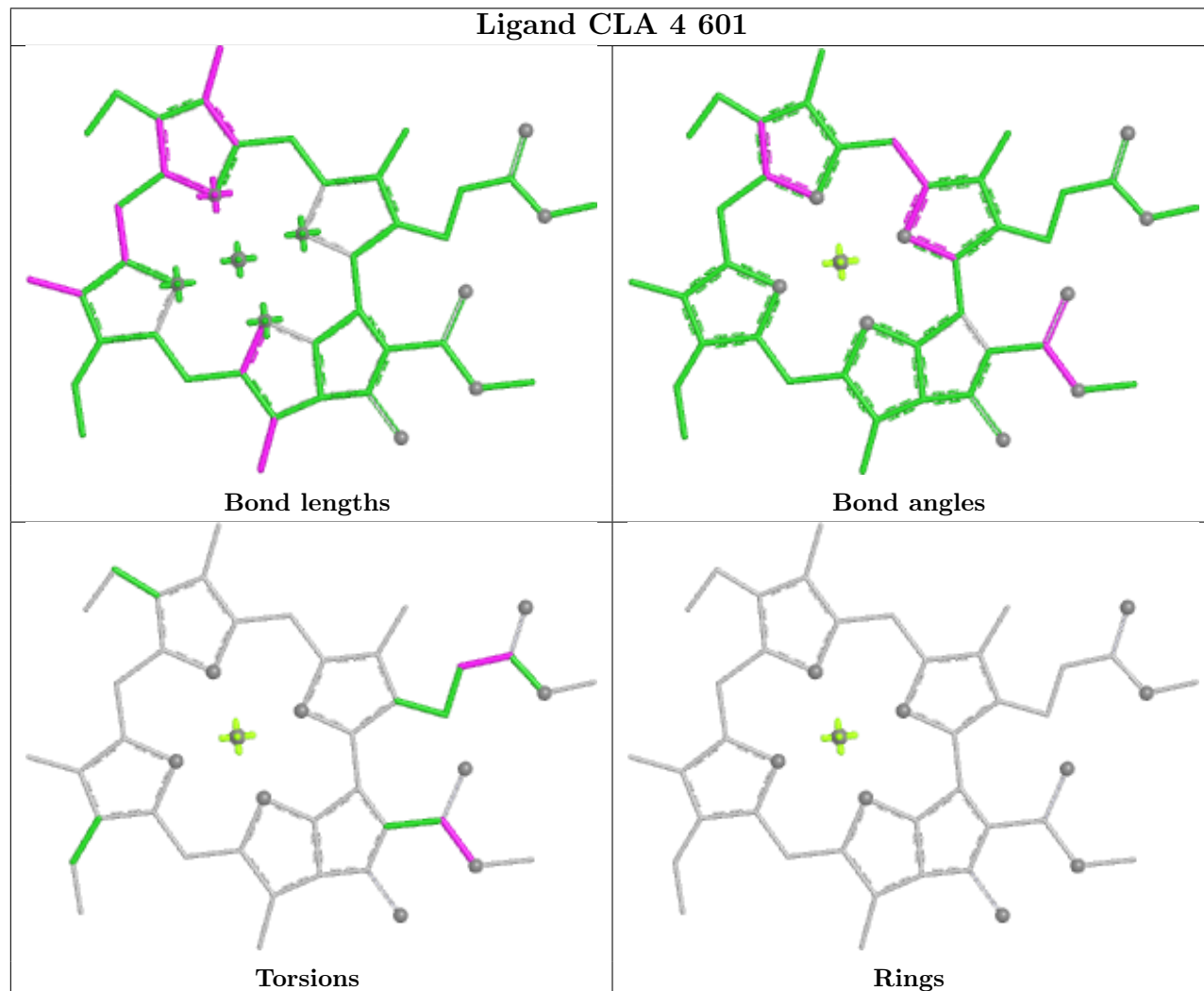
Ligand CLA 3 604



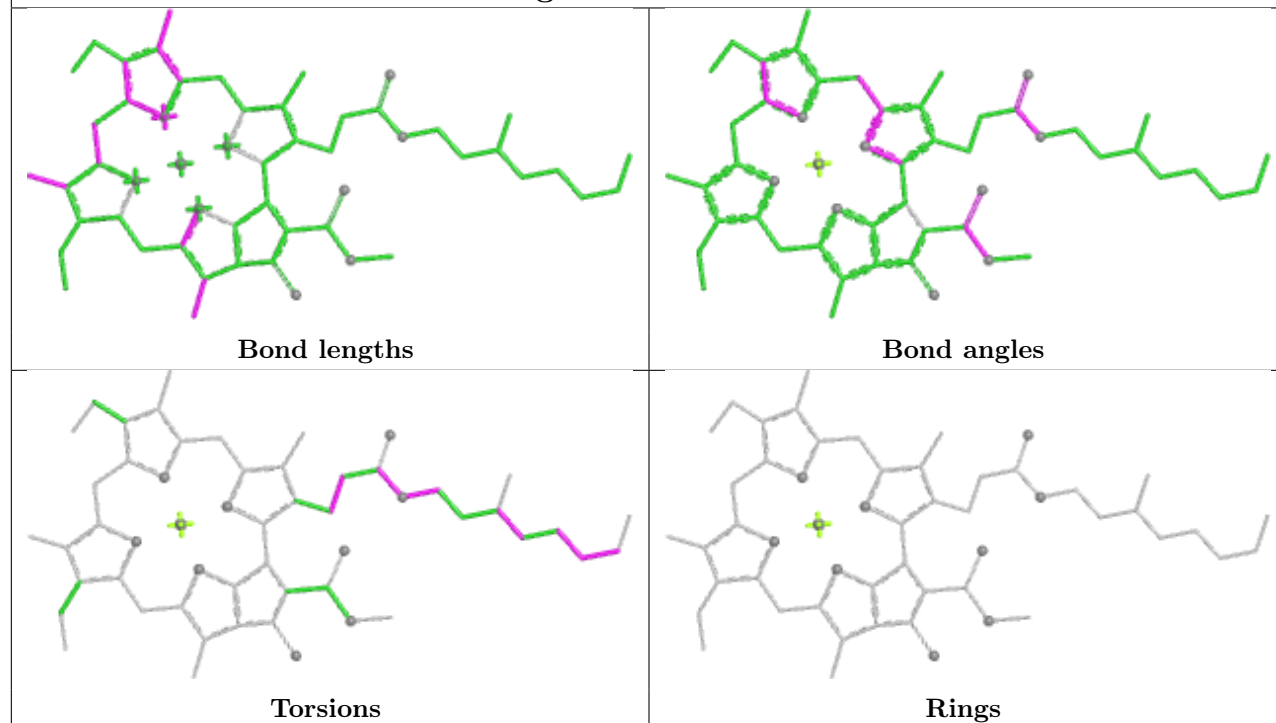
Ligand CLA A 830



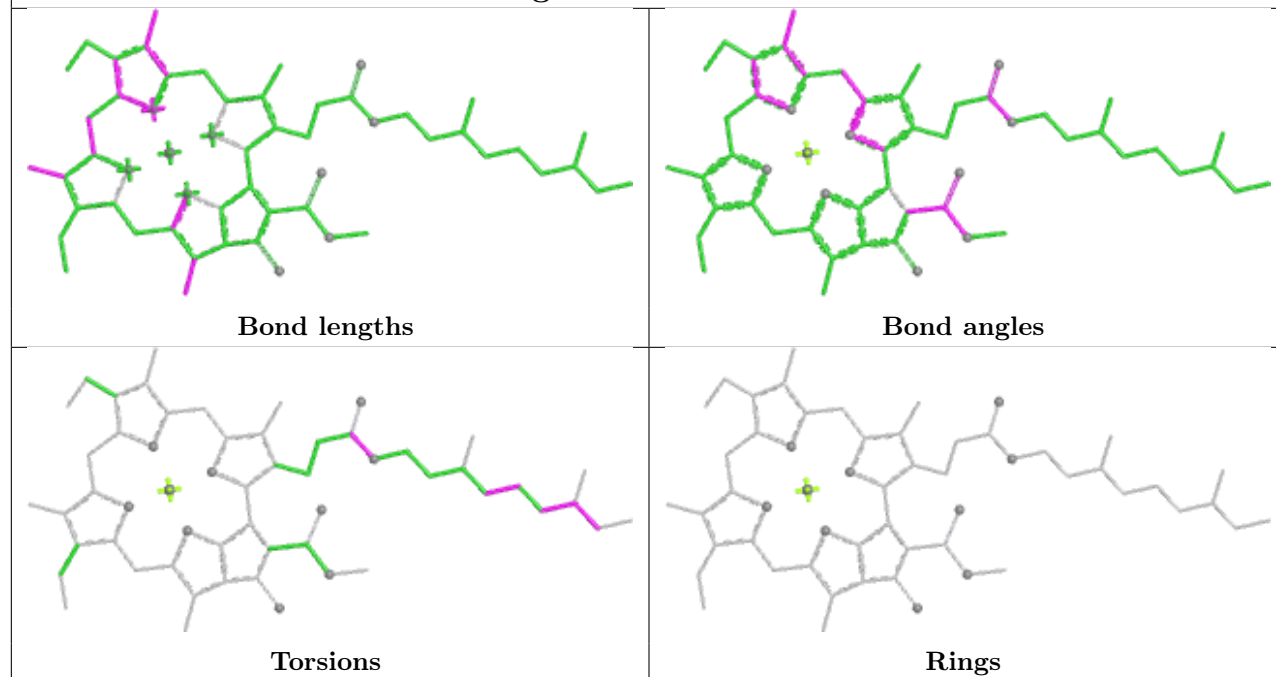
Ligand CLA 4 601



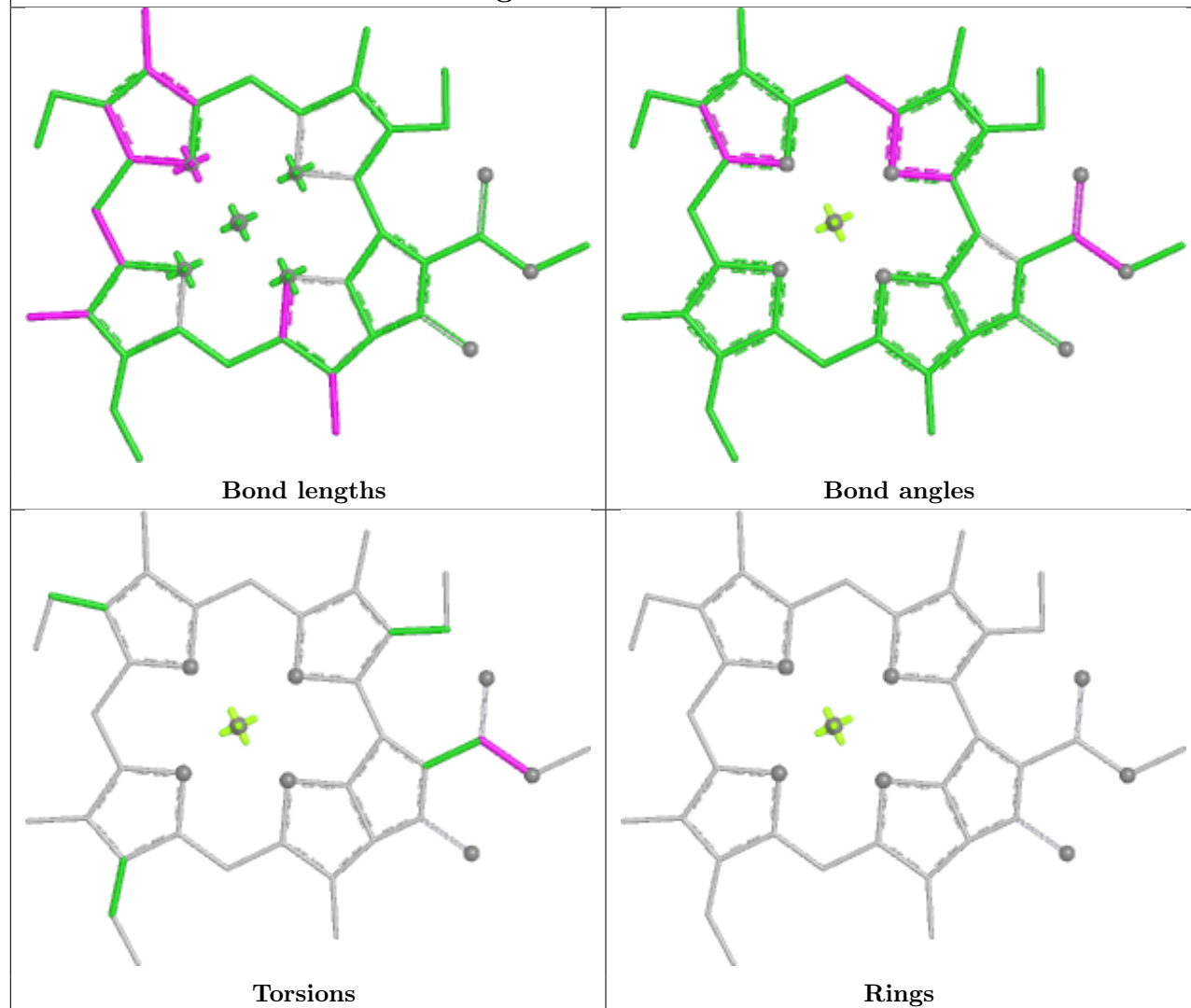
Ligand CLA 1 603



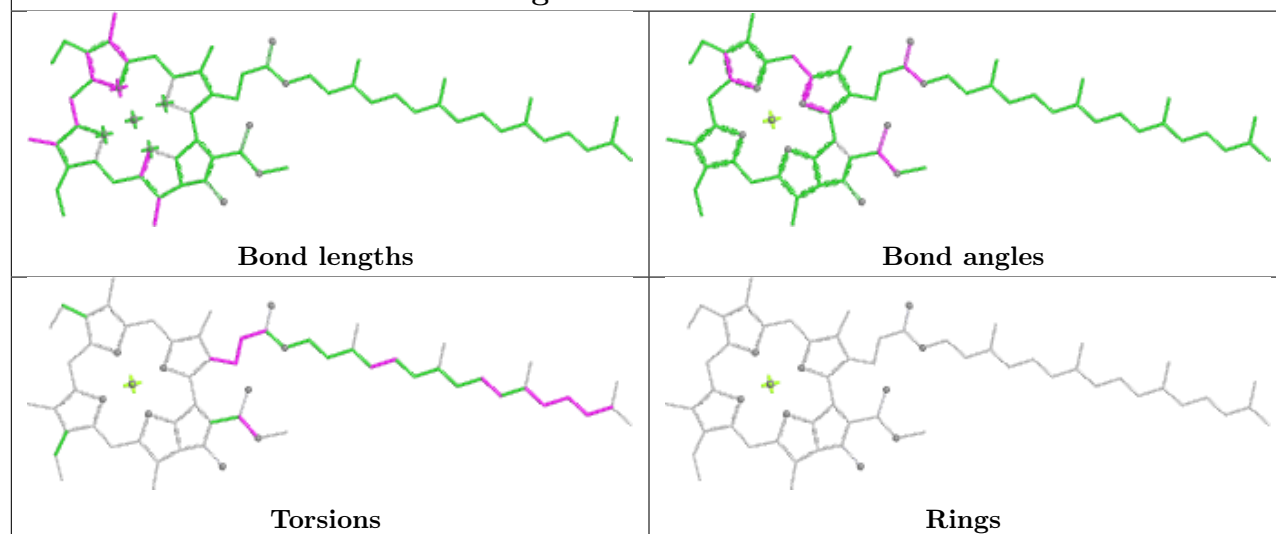
Ligand CLA B 829



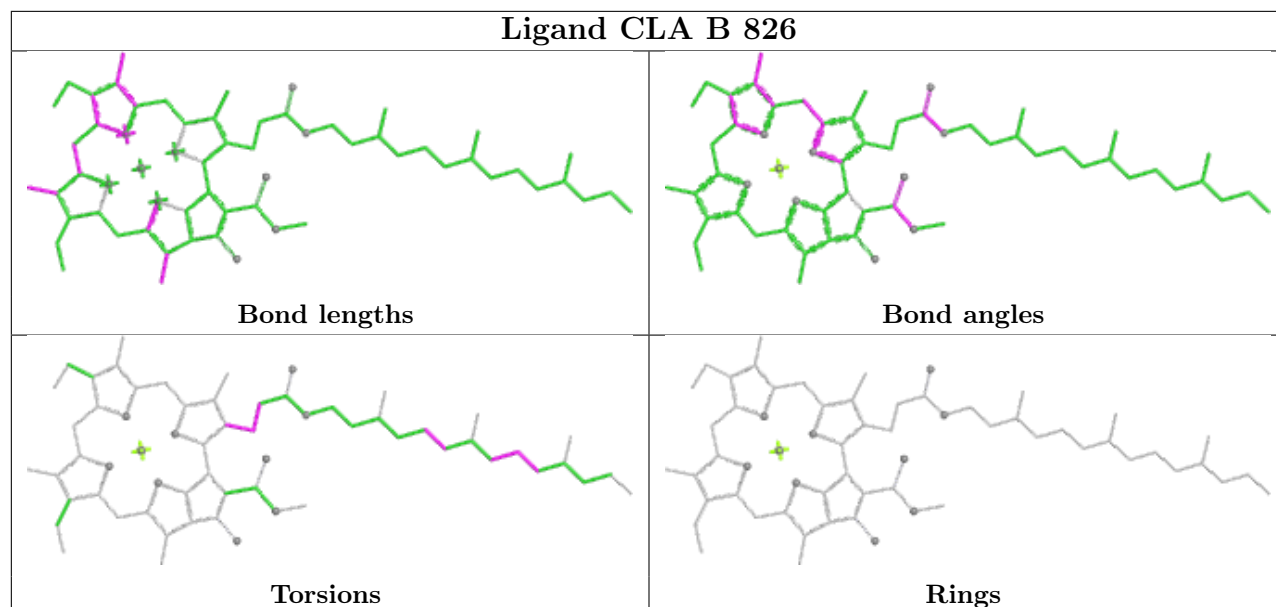
Ligand CLA A 816



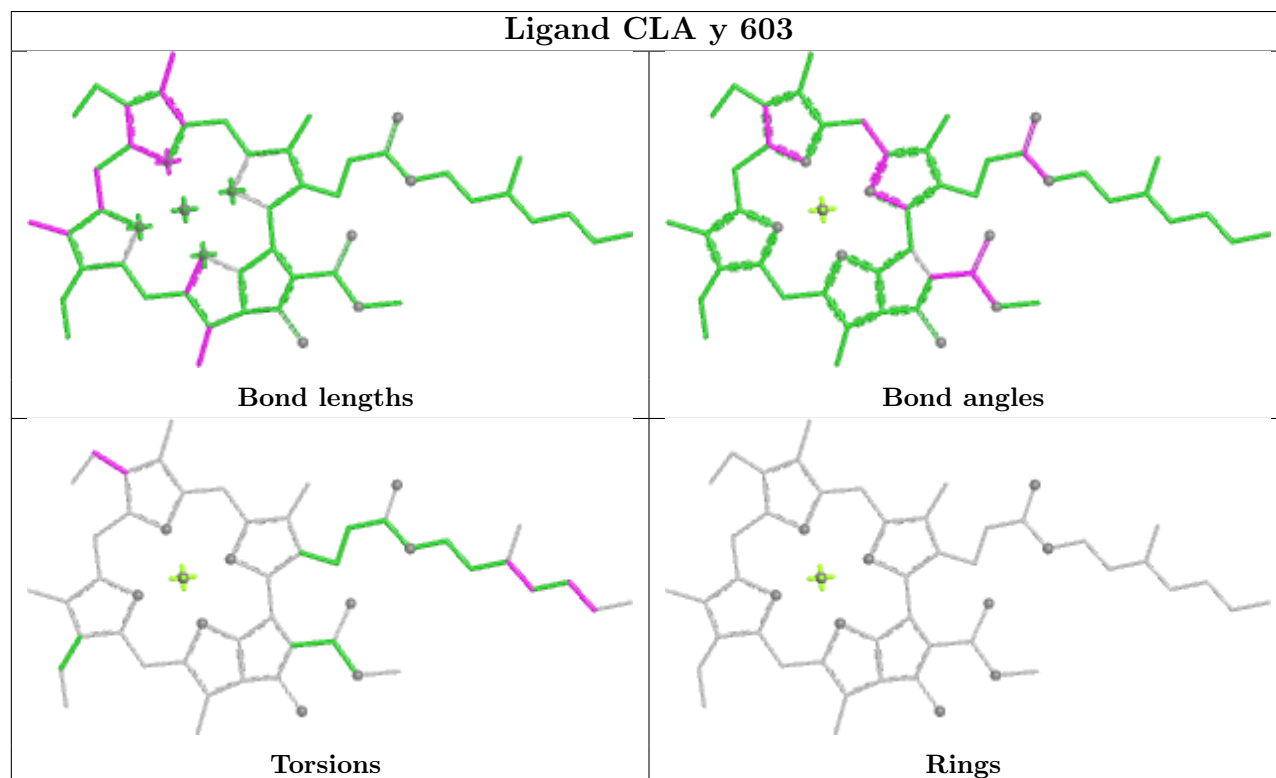
Ligand CLA A 814



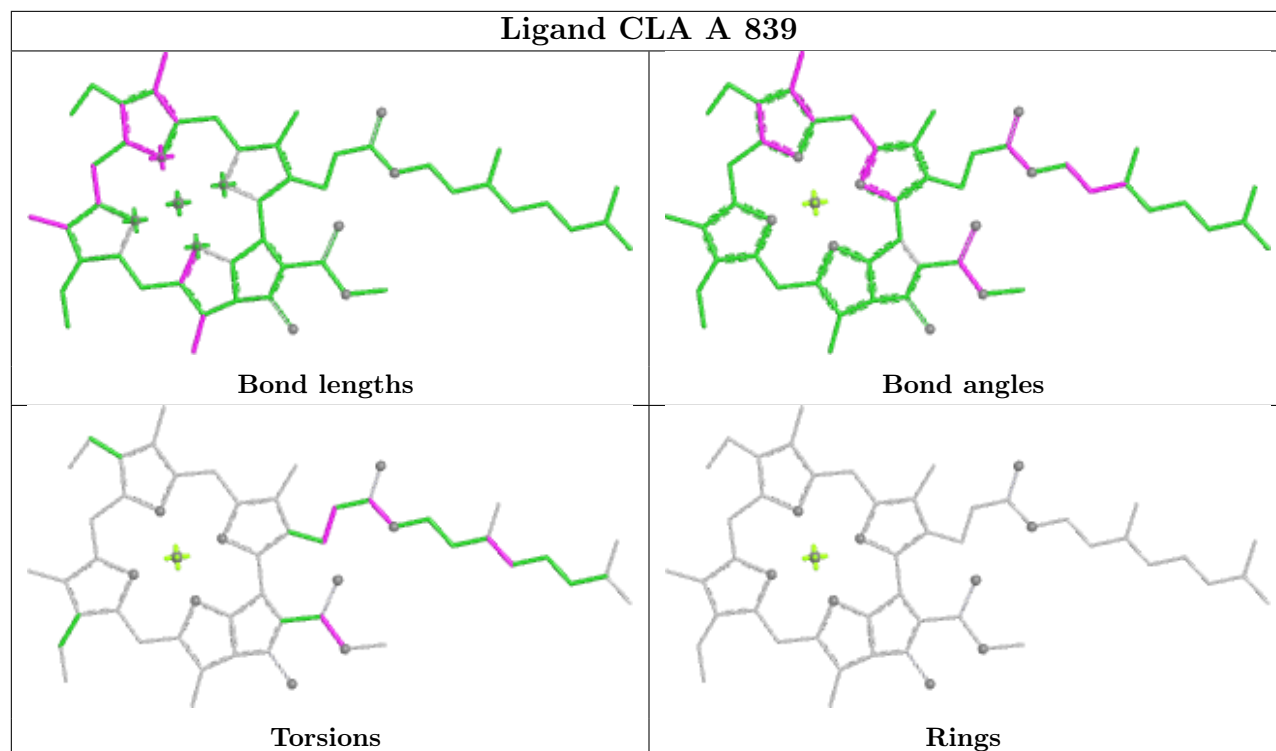
Ligand CLA B 826



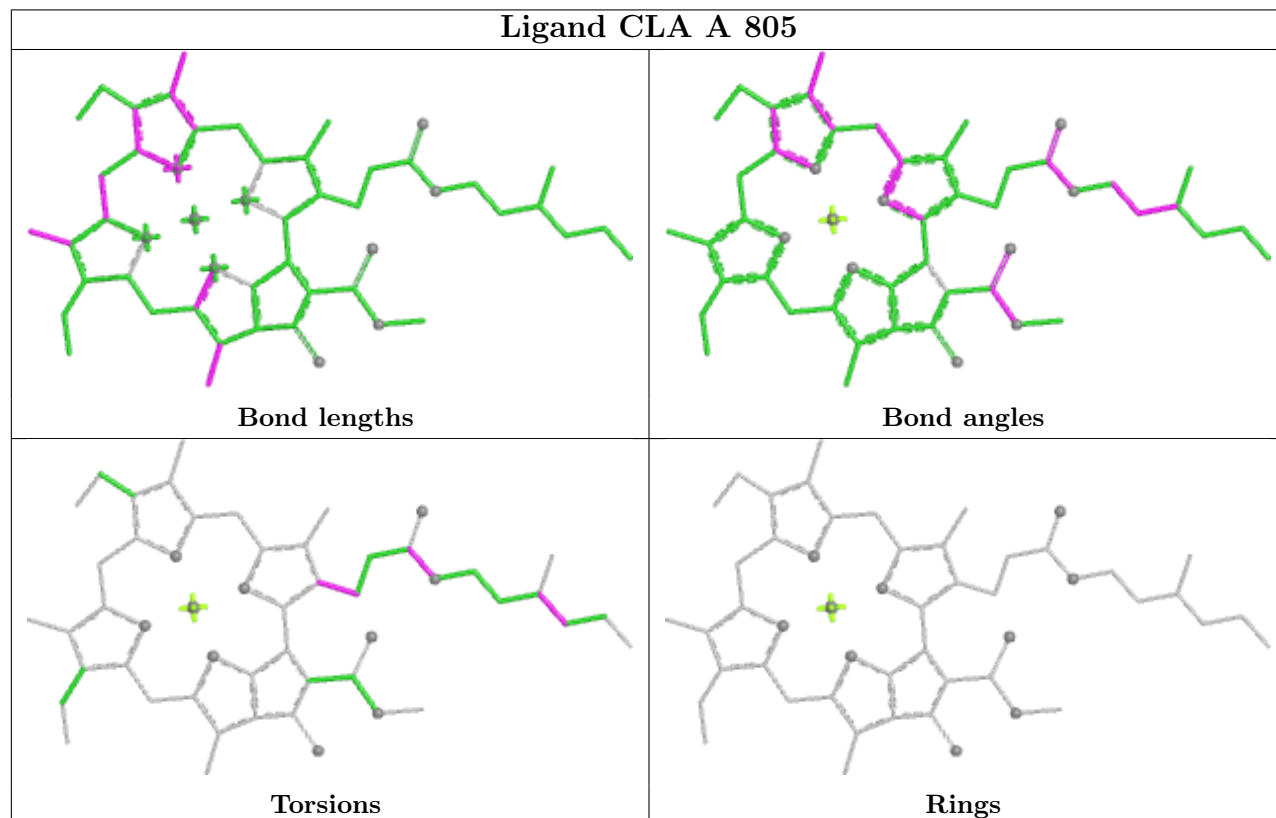
Ligand CLA y 603



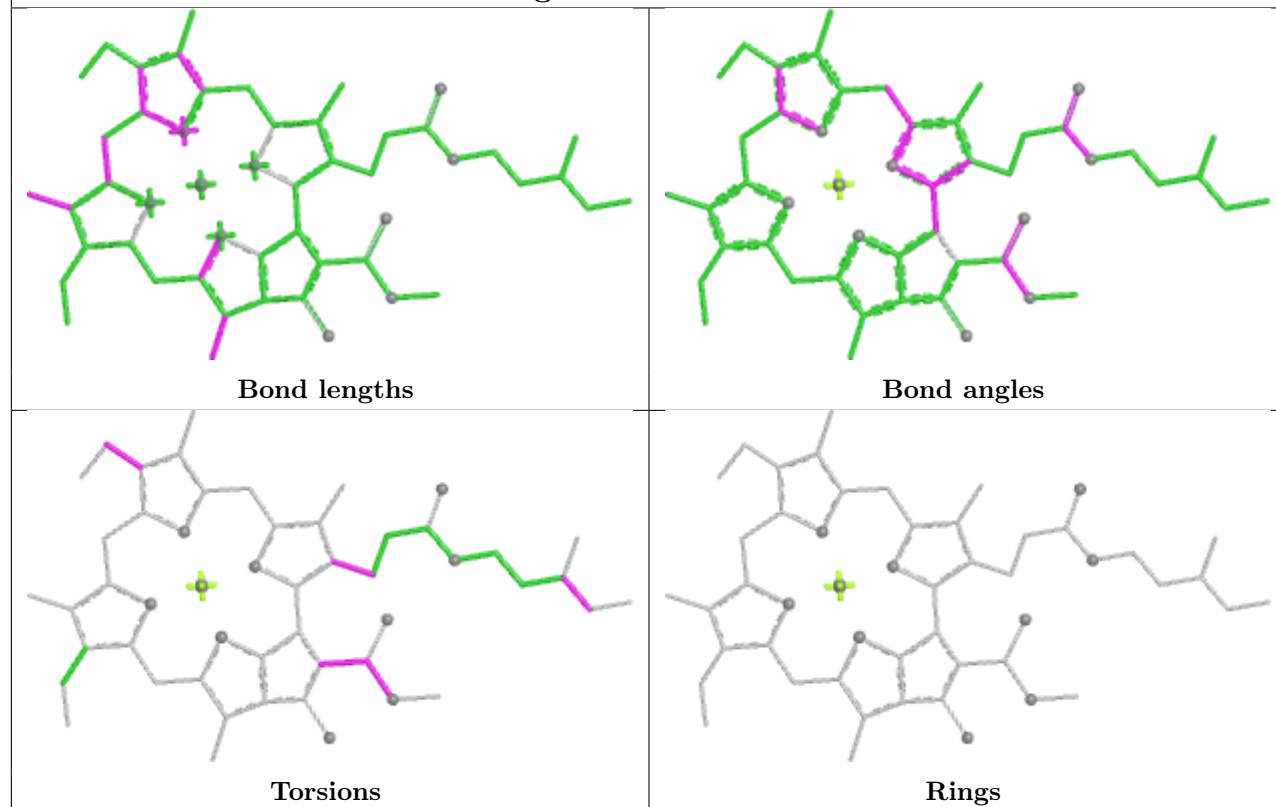
Ligand CLA A 839



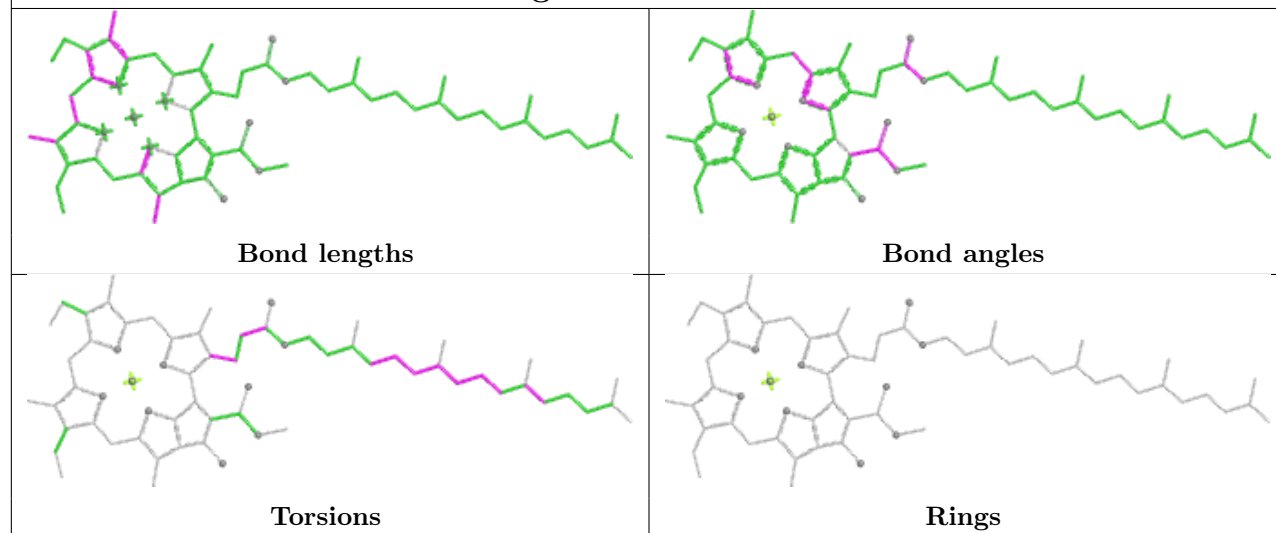
Ligand CLA A 805



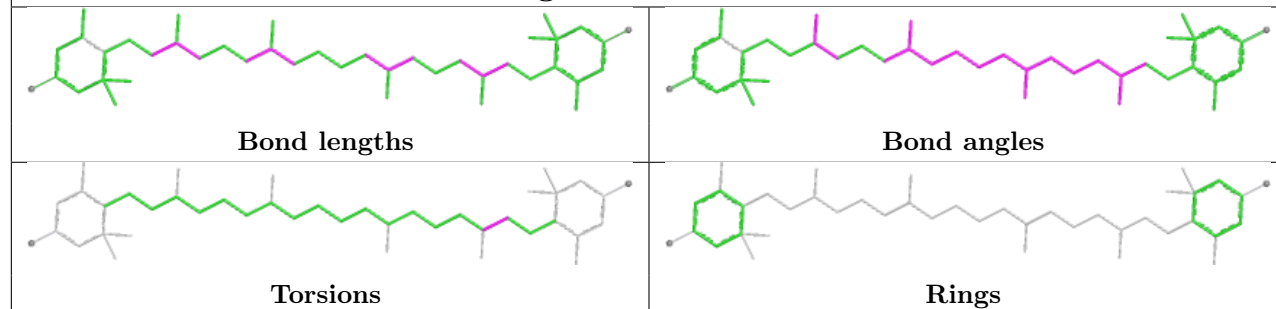
Ligand CLA F 302



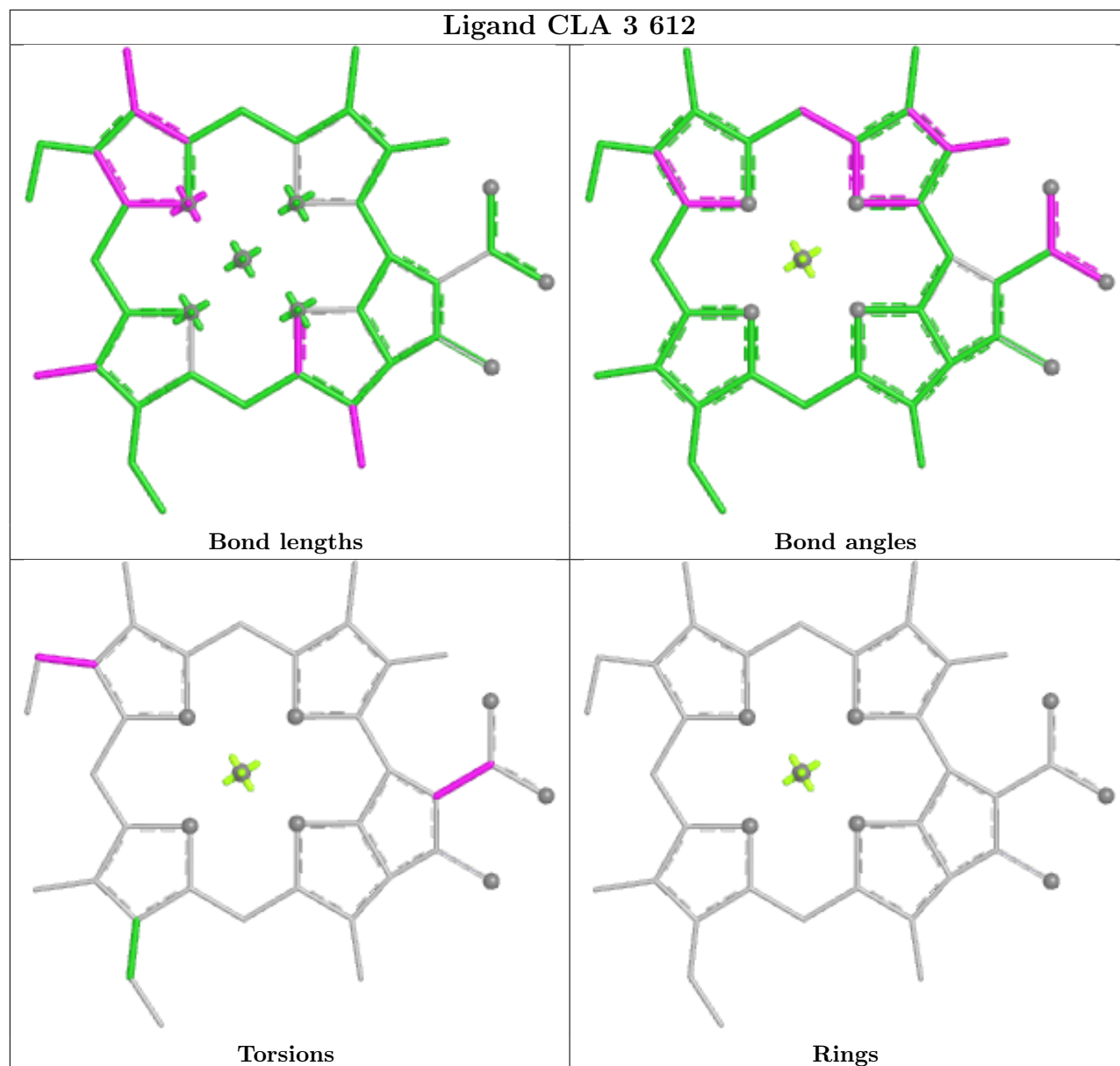
Ligand CLA B 805



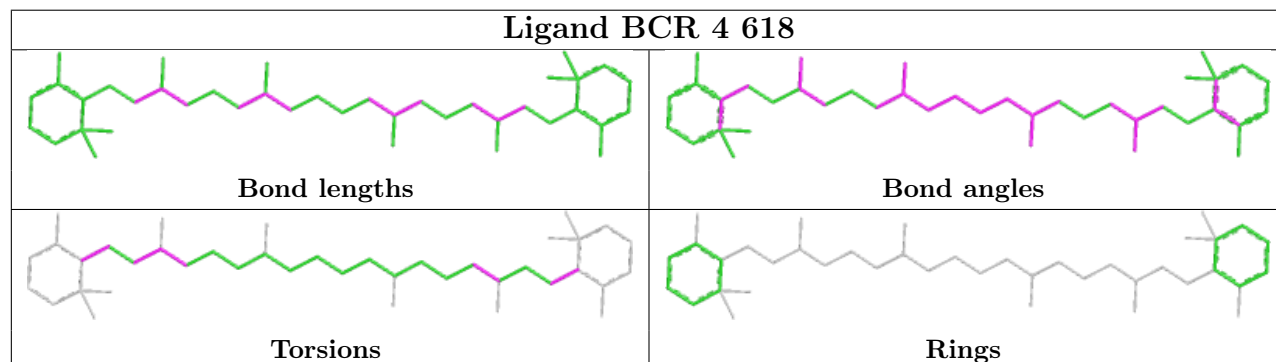
Ligand LUT z 615

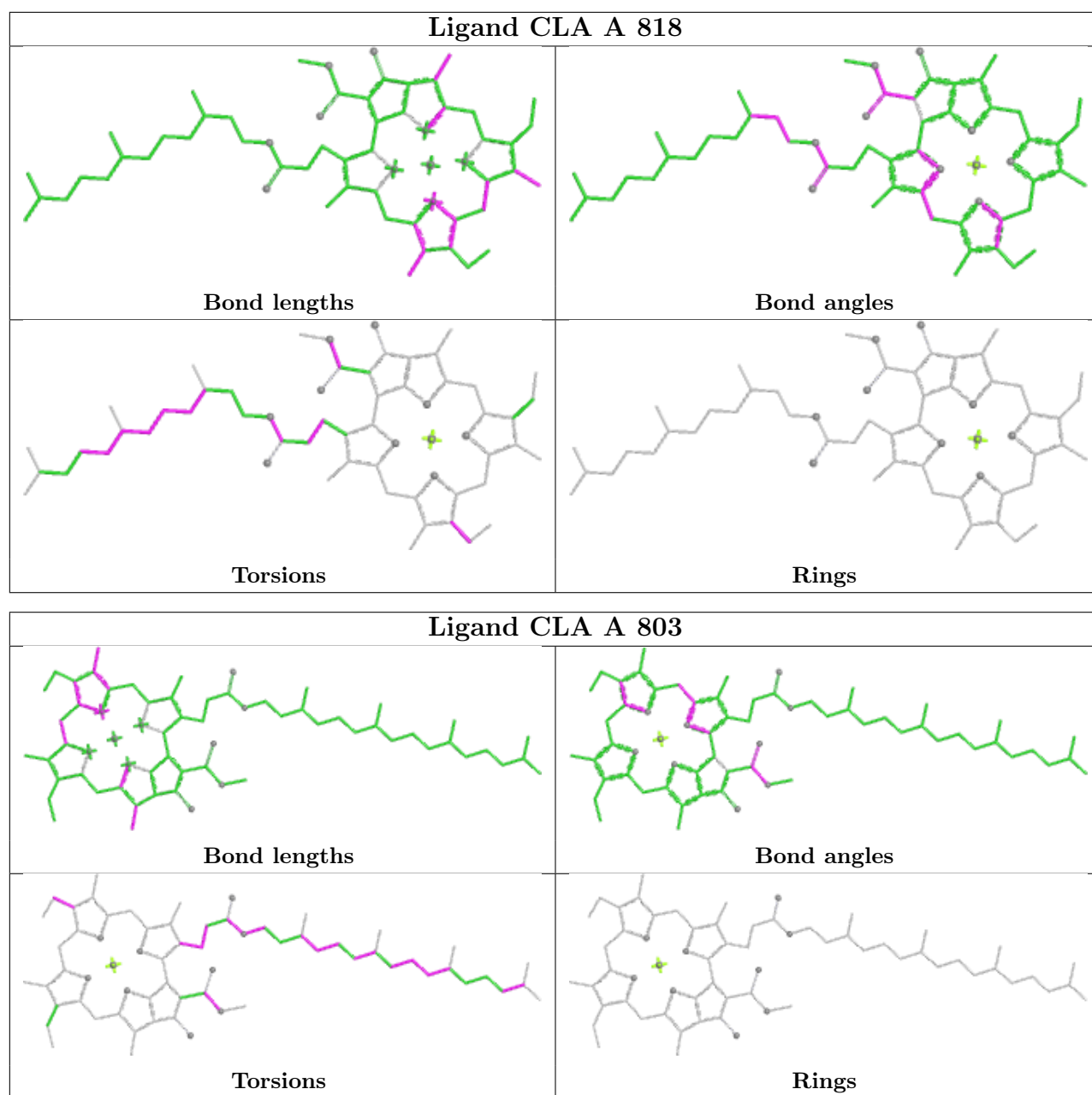


Ligand CLA 3 612

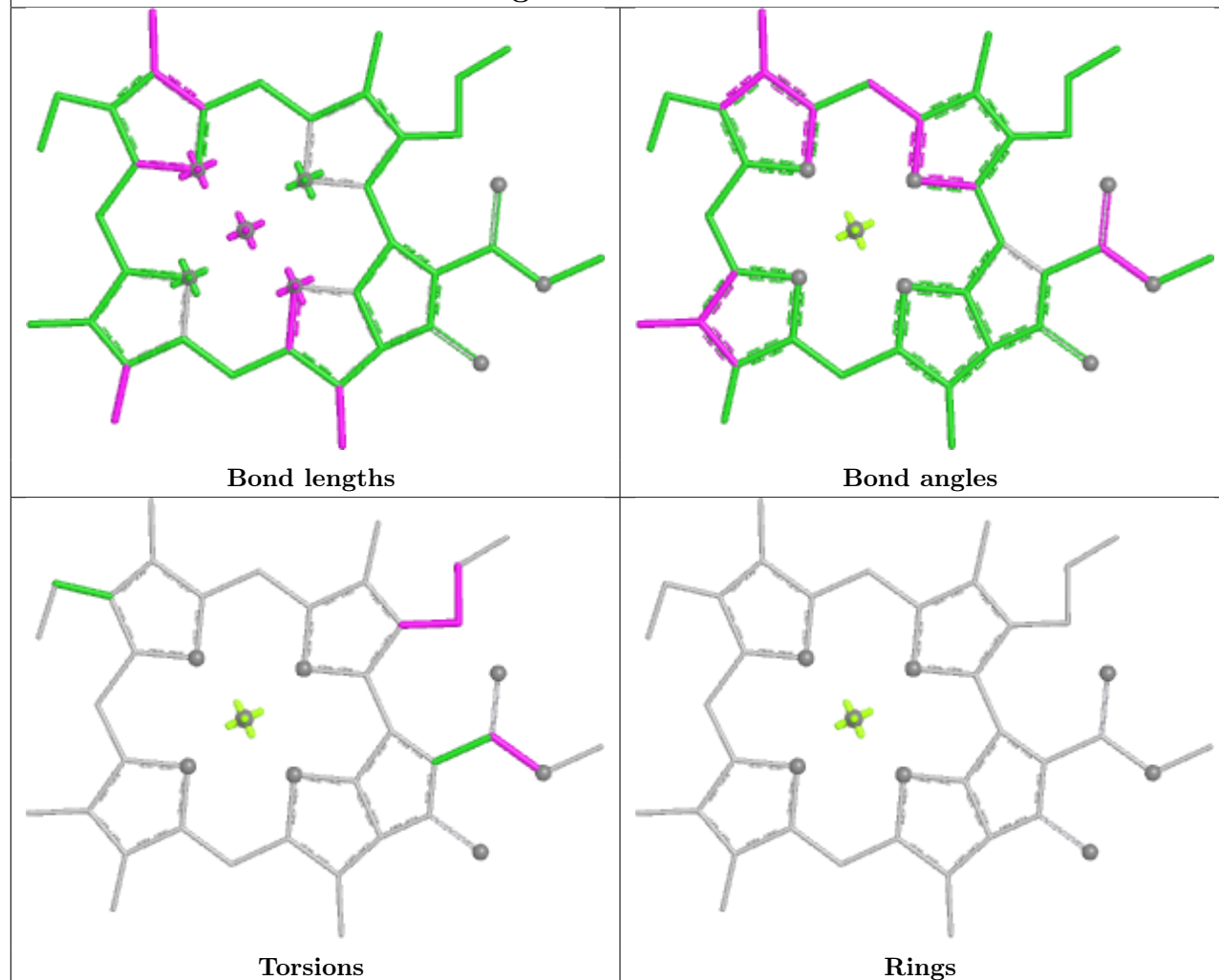


Ligand BCR 4 618

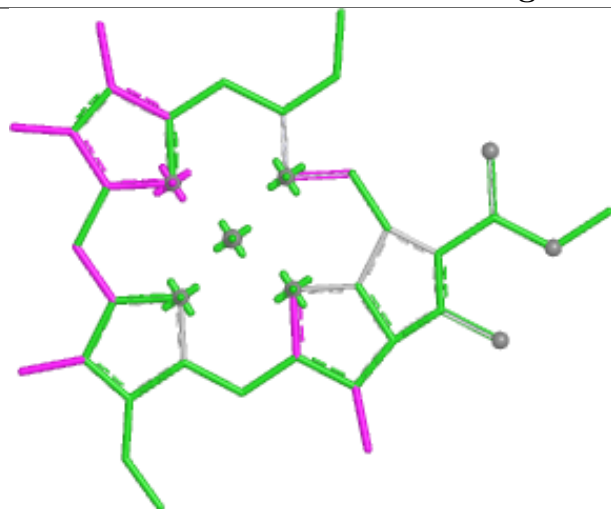




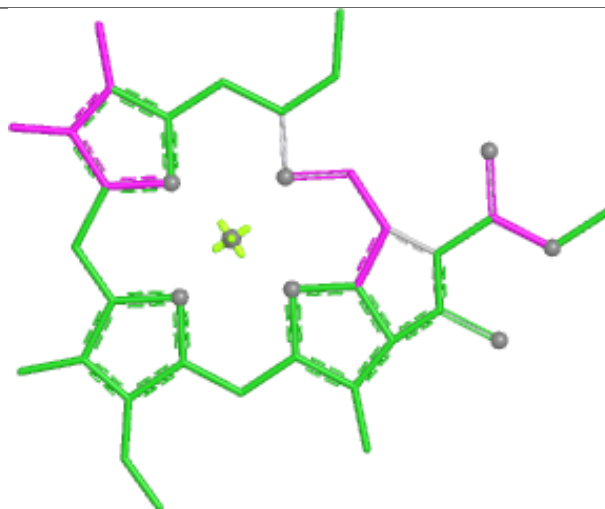
Ligand CLA 1 609



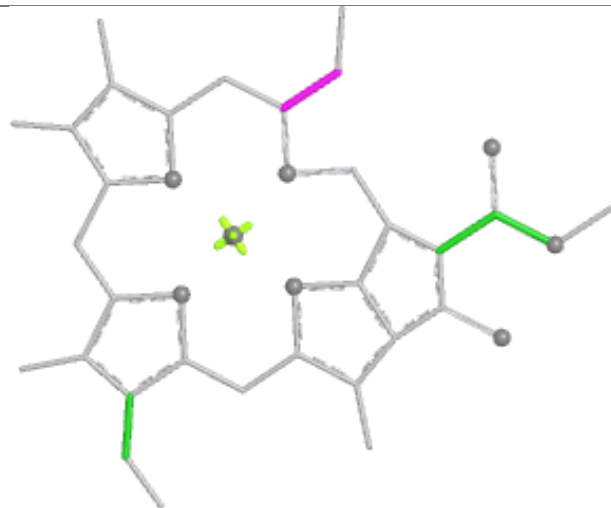
Ligand CLA 2 610



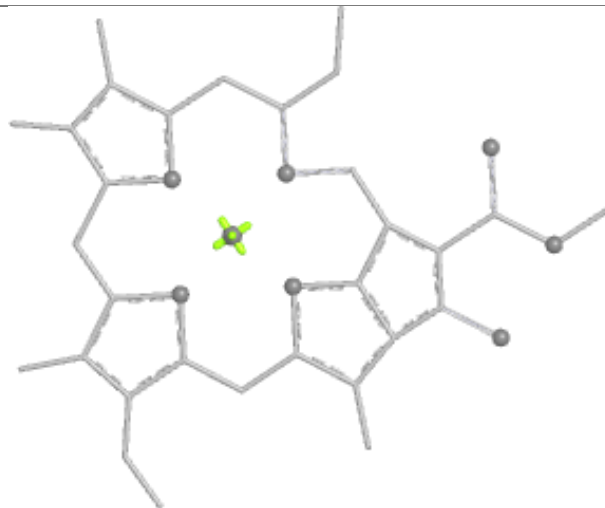
Bond lengths



Bond angles

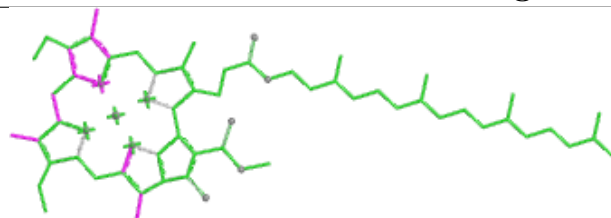


Torsions

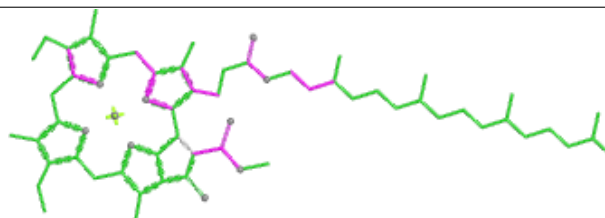


Rings

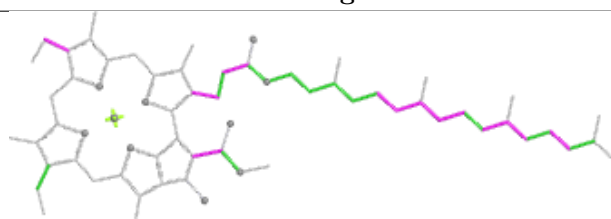
Ligand CLA A 804



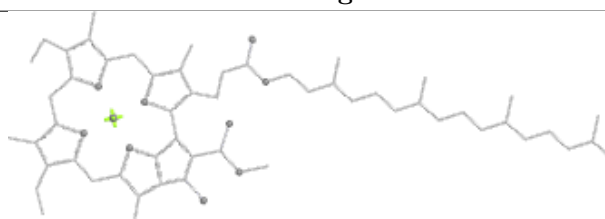
Bond lengths



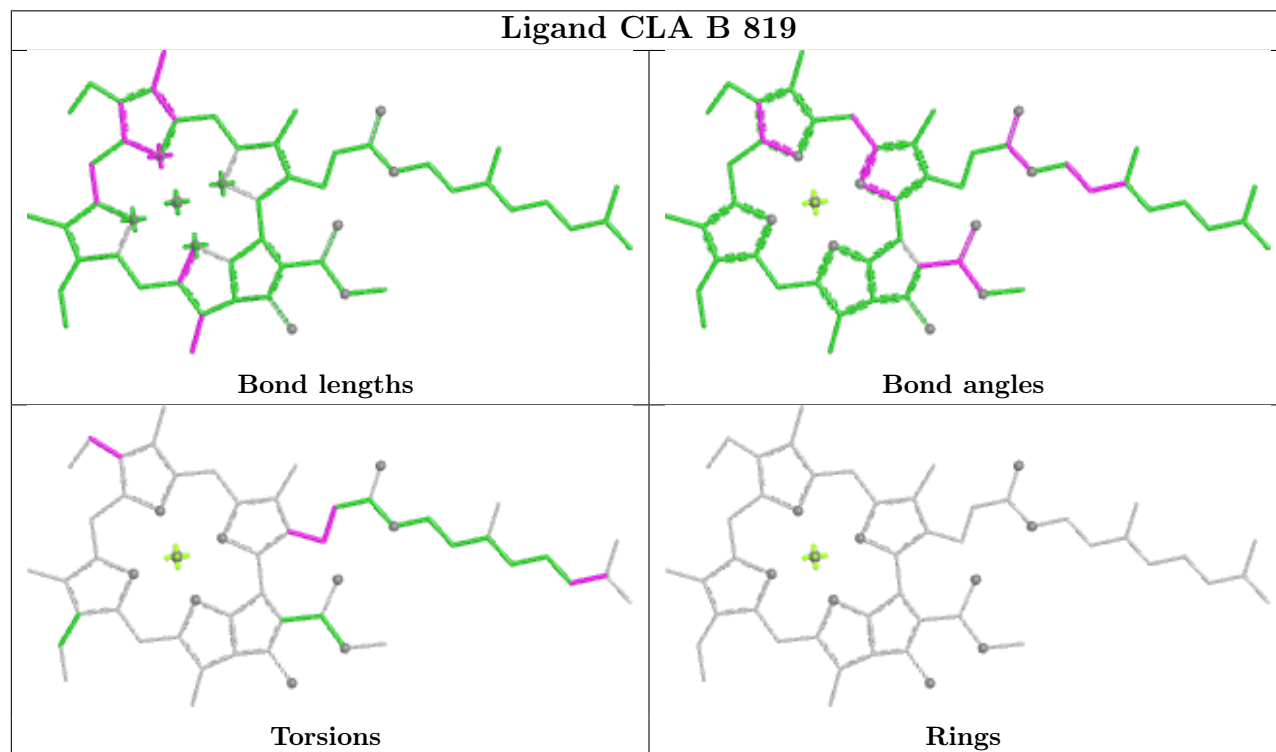
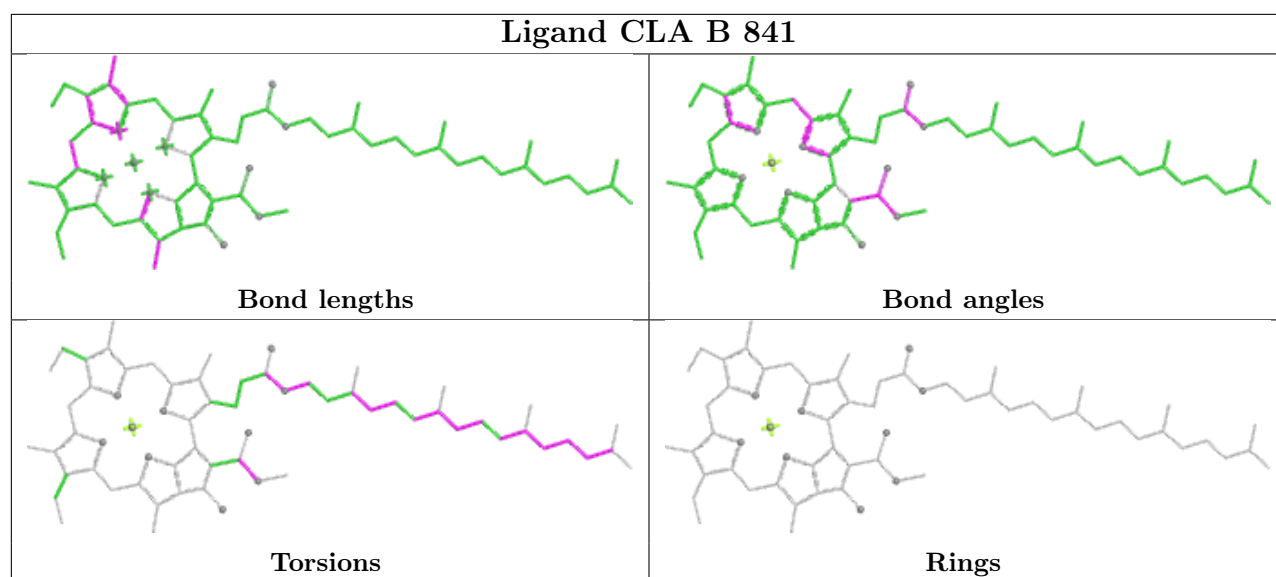
Bond angles



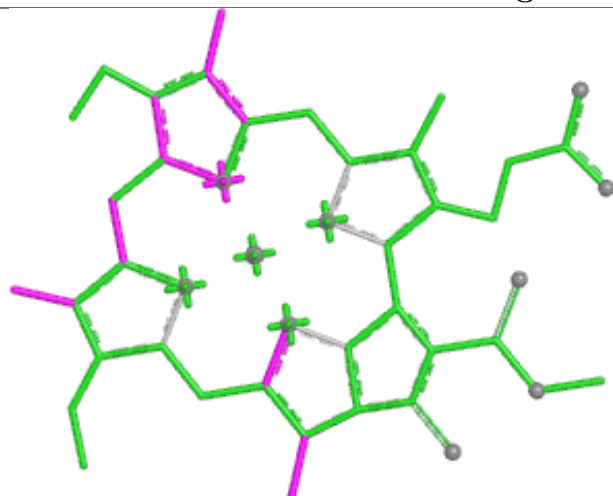
Torsions



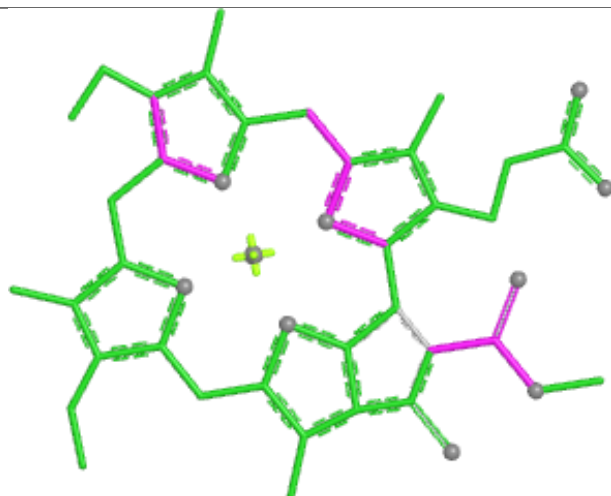
Rings



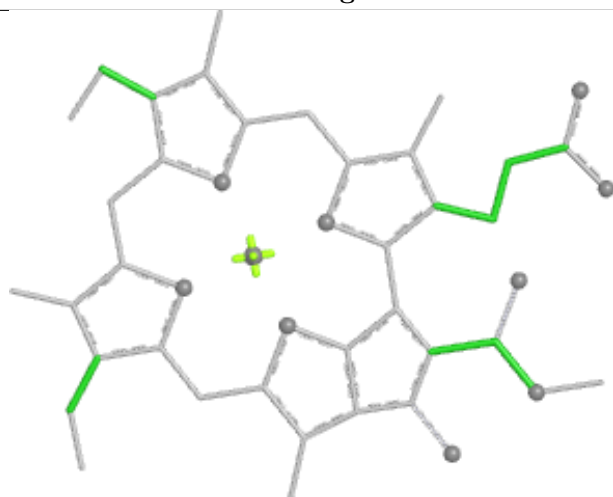
Ligand CLA L 302



Bond lengths



Bond angles

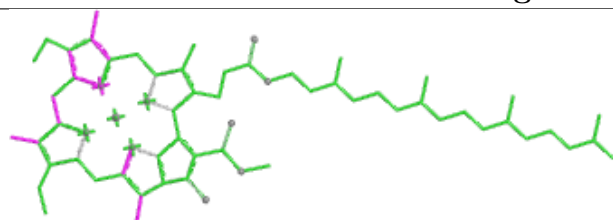


Torsions

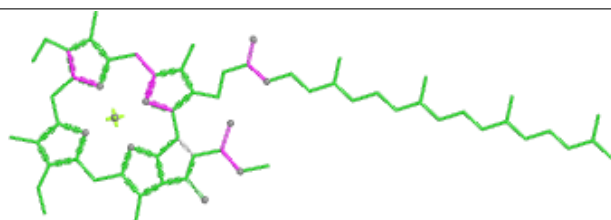


Rings

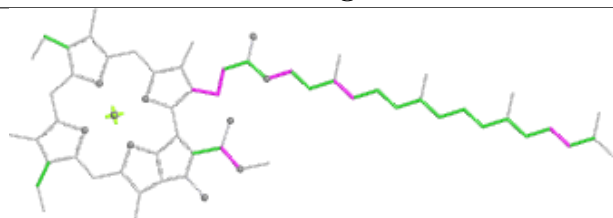
Ligand CLA A 822



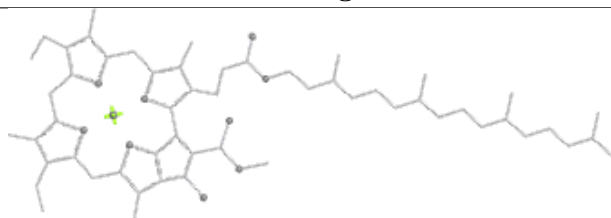
Bond lengths



Bond angles

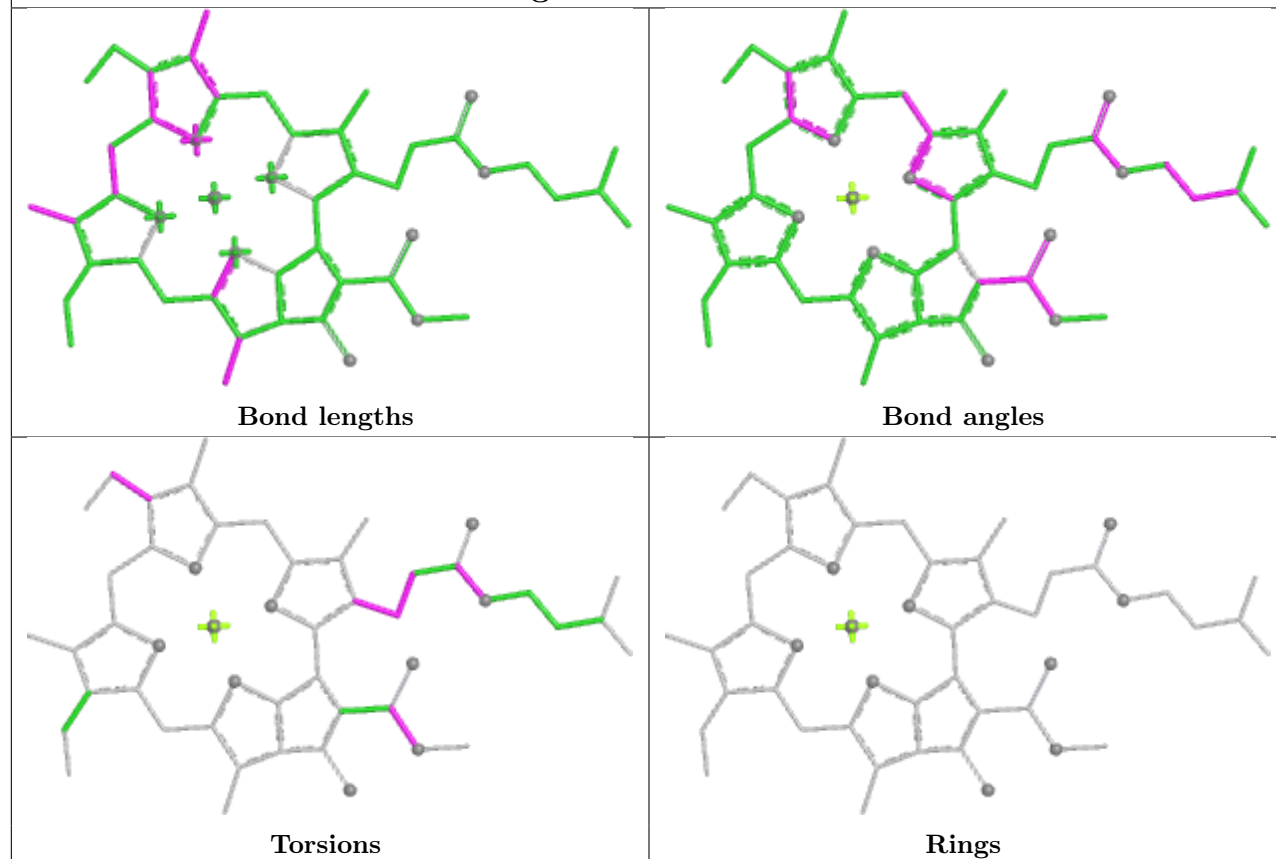


Torsions

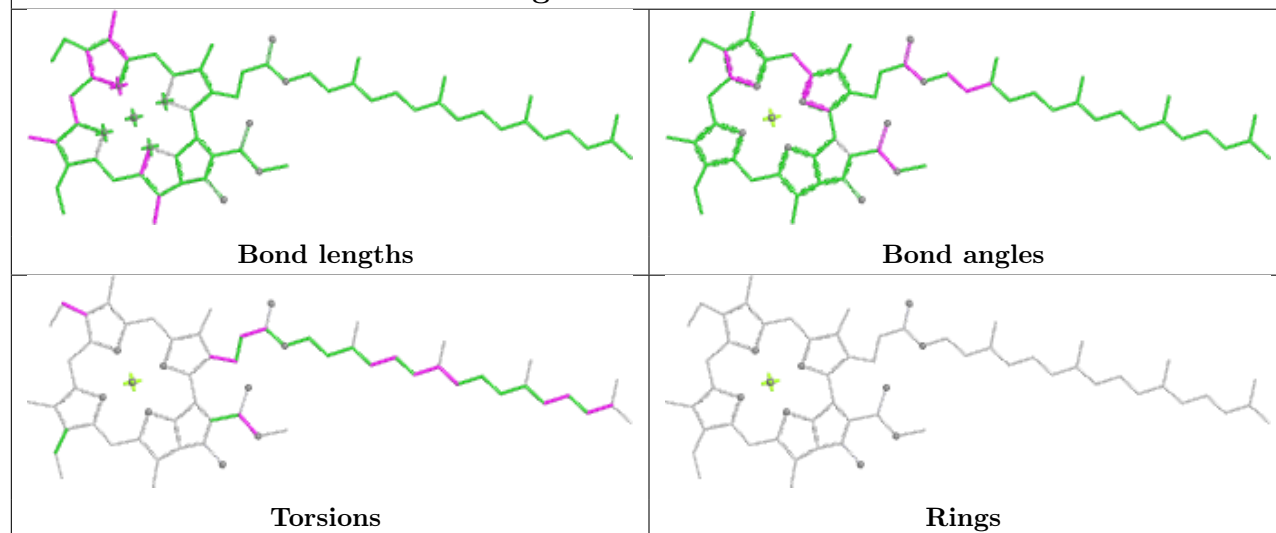


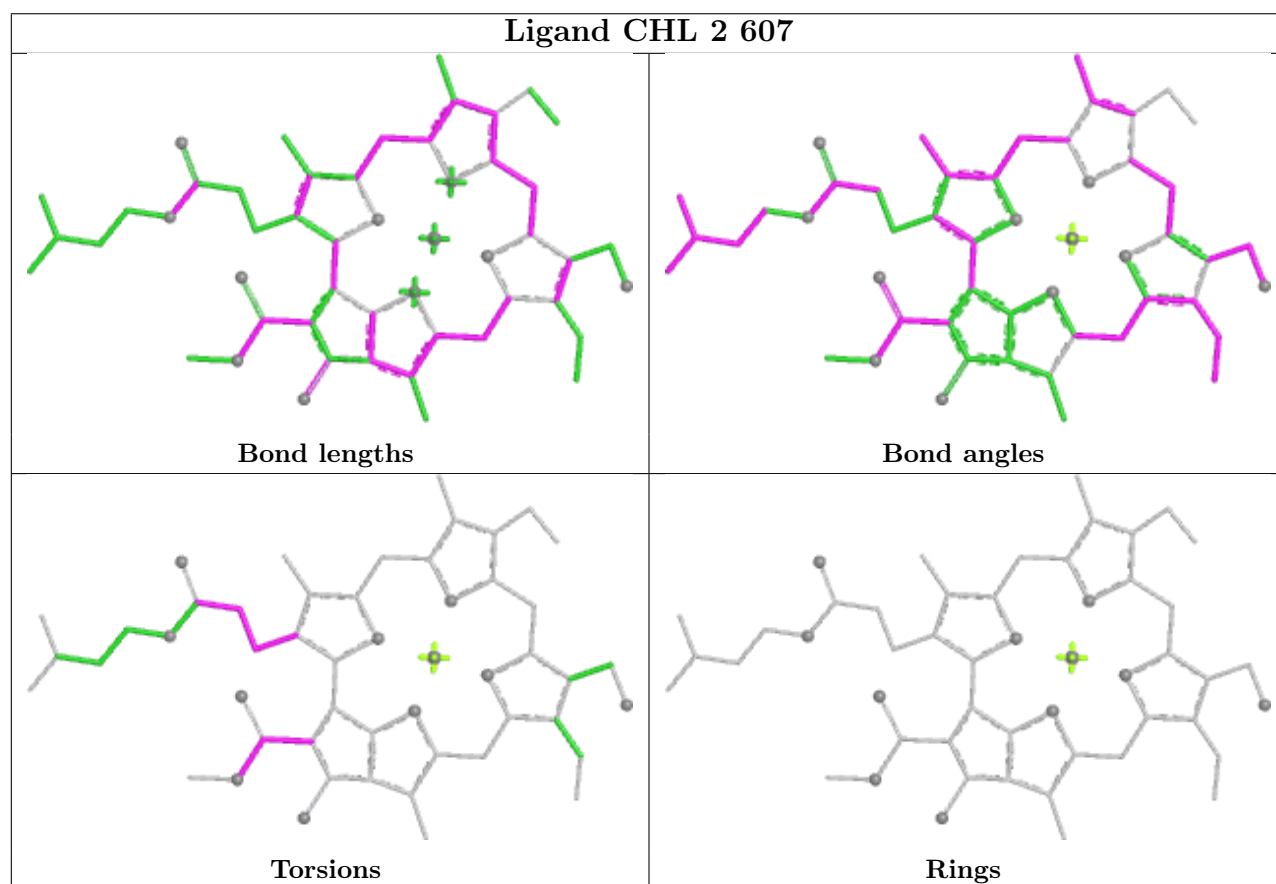
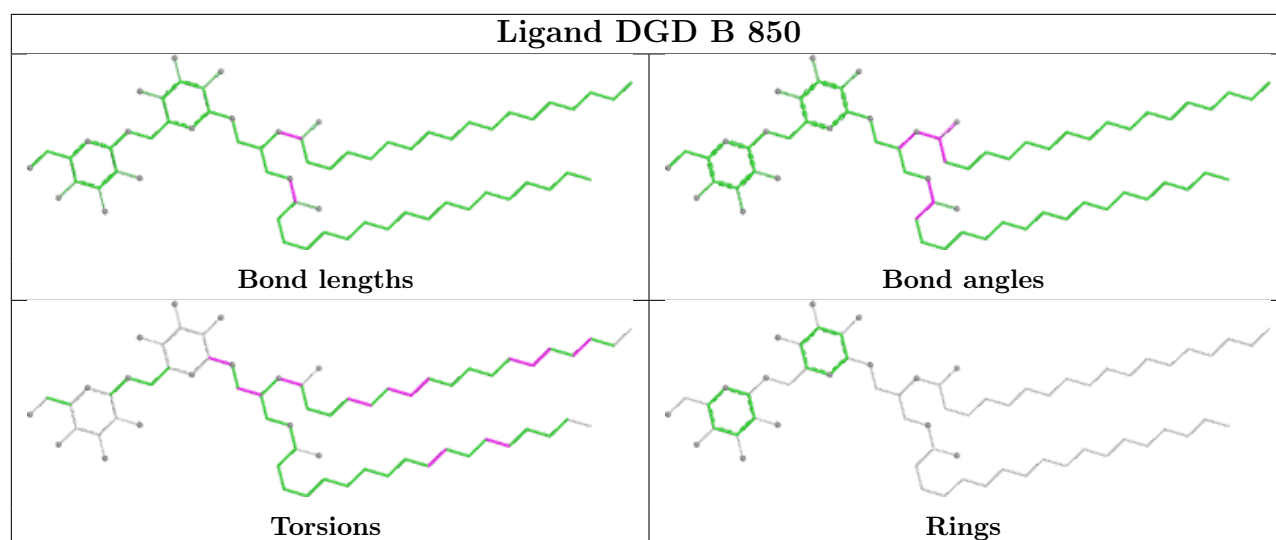
Rings

Ligand CLA A 845

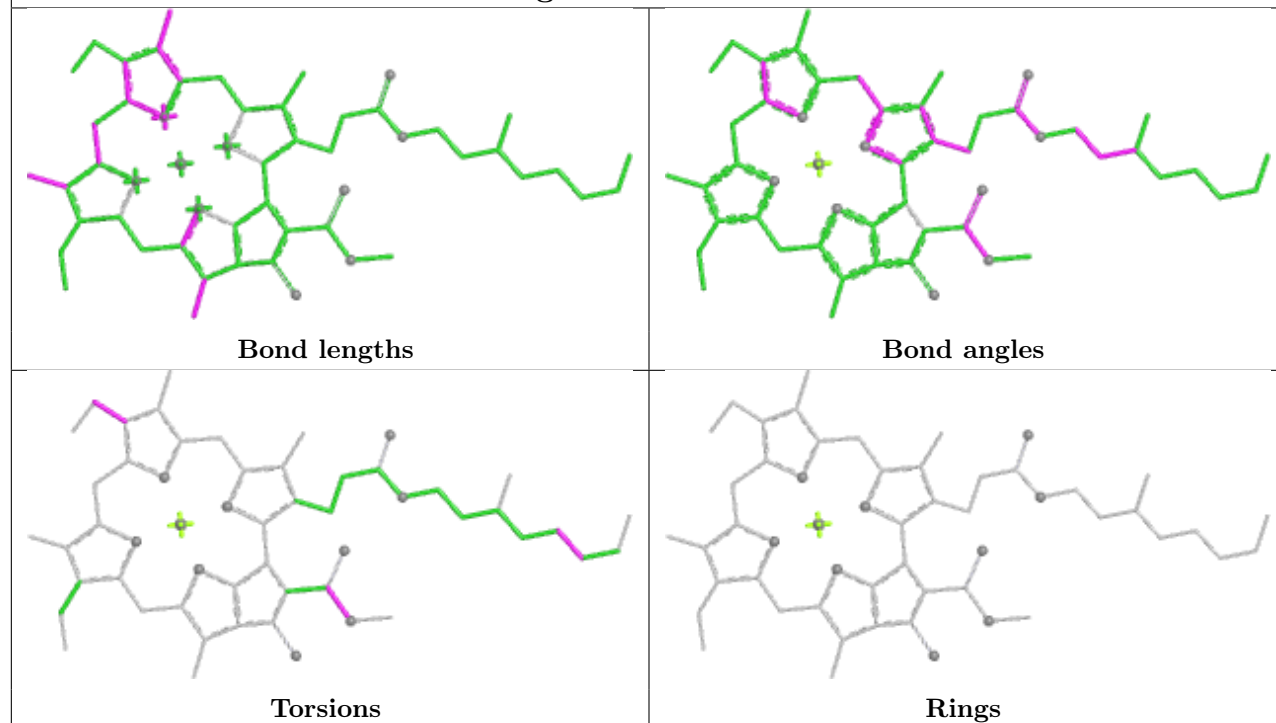


Ligand CLA B 803

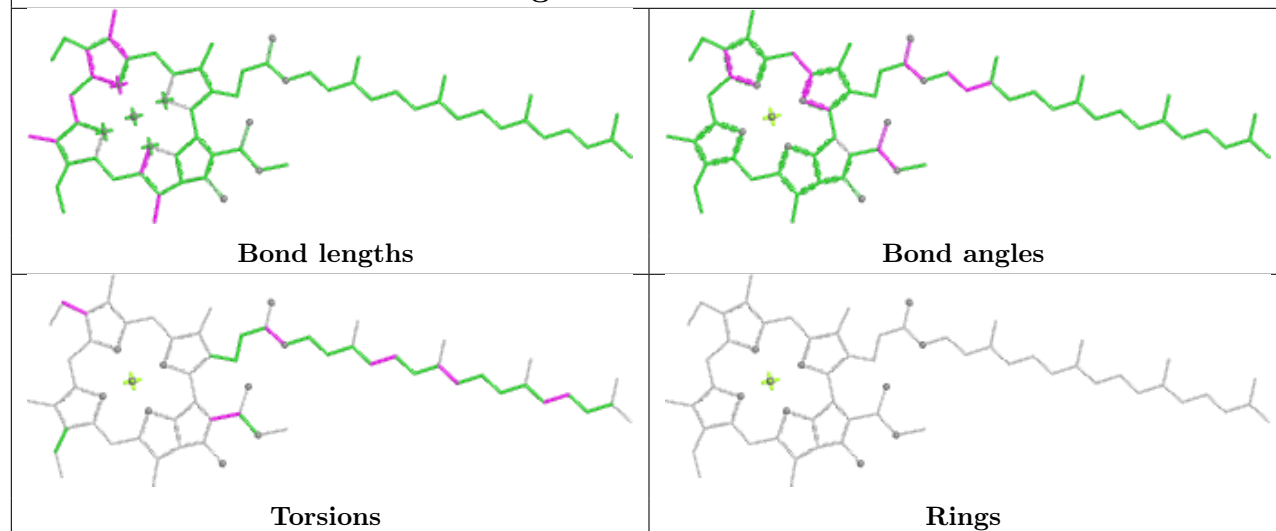


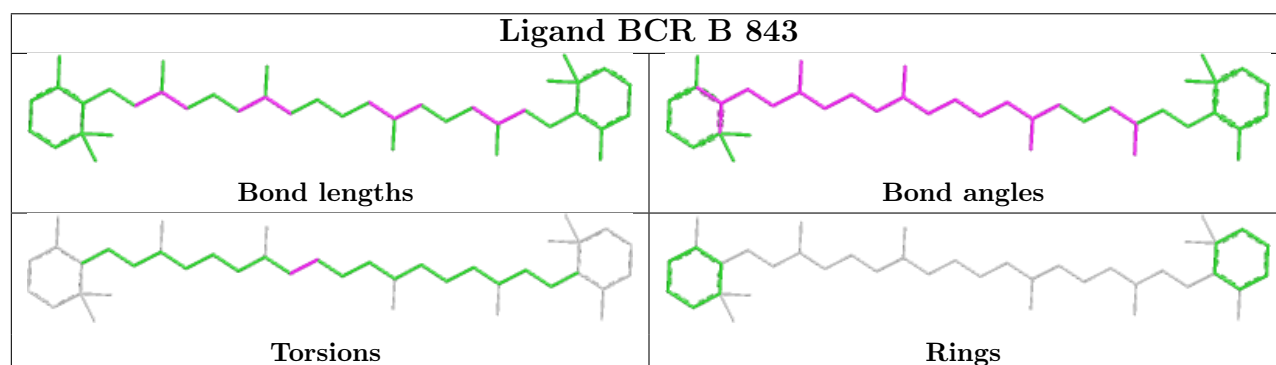
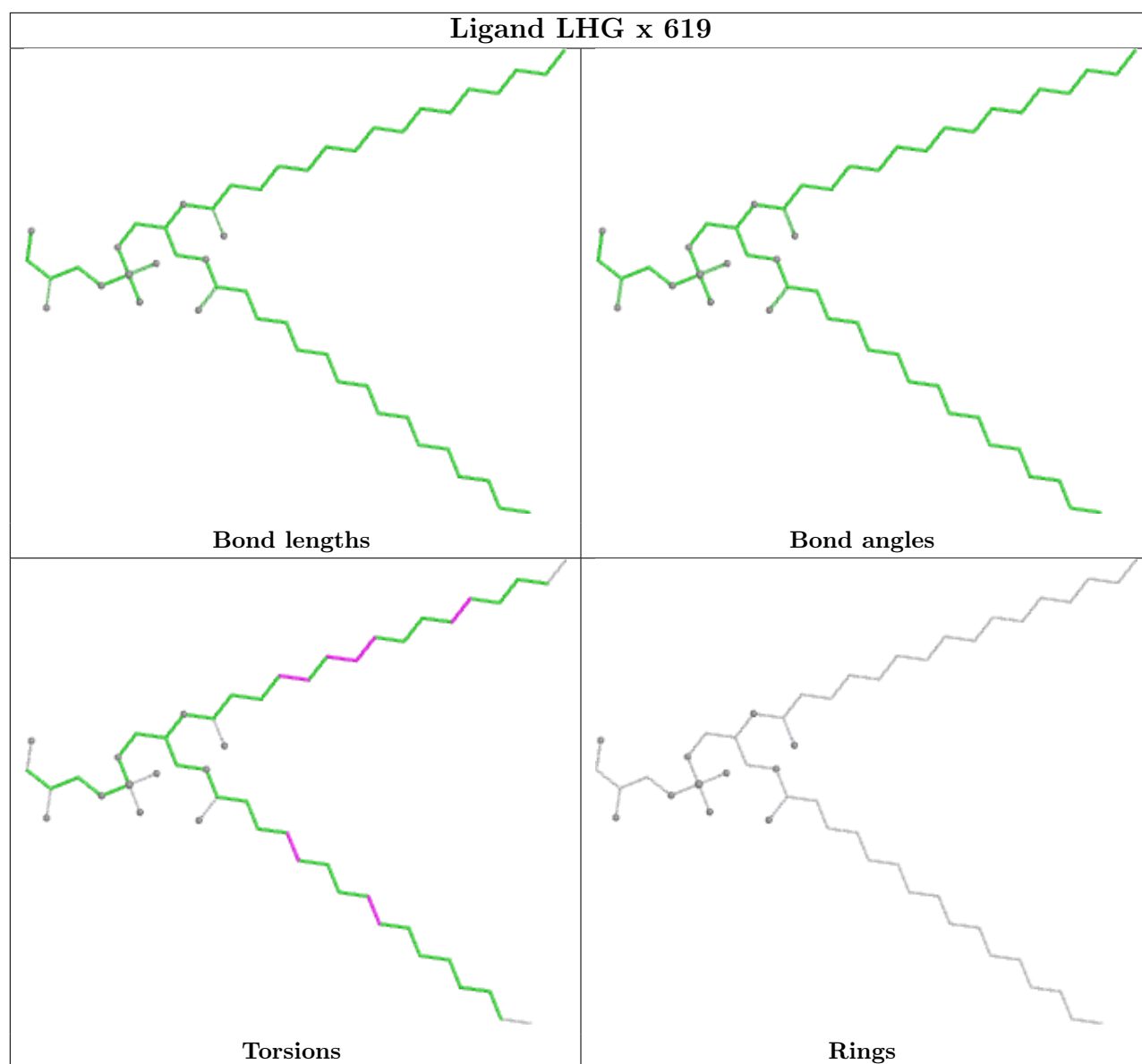


Ligand CLA 4 609

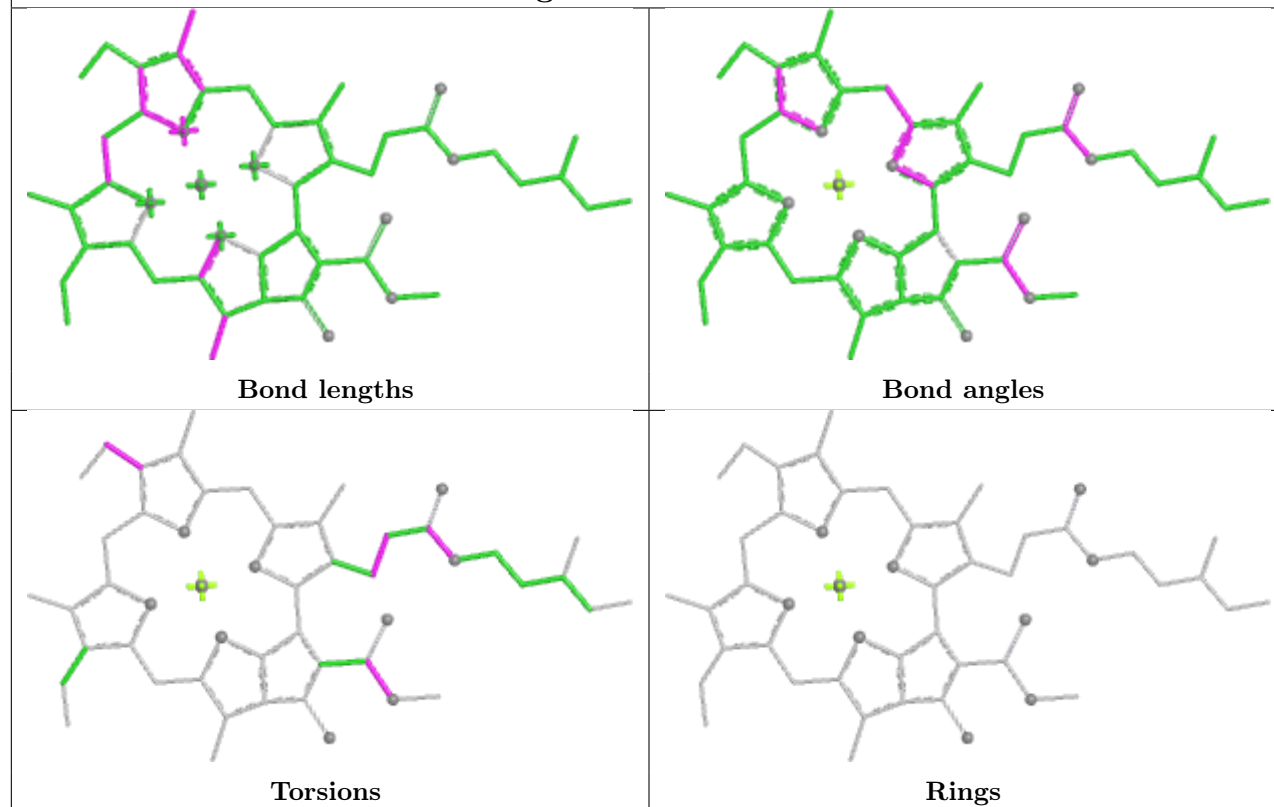


Ligand CLA A 834

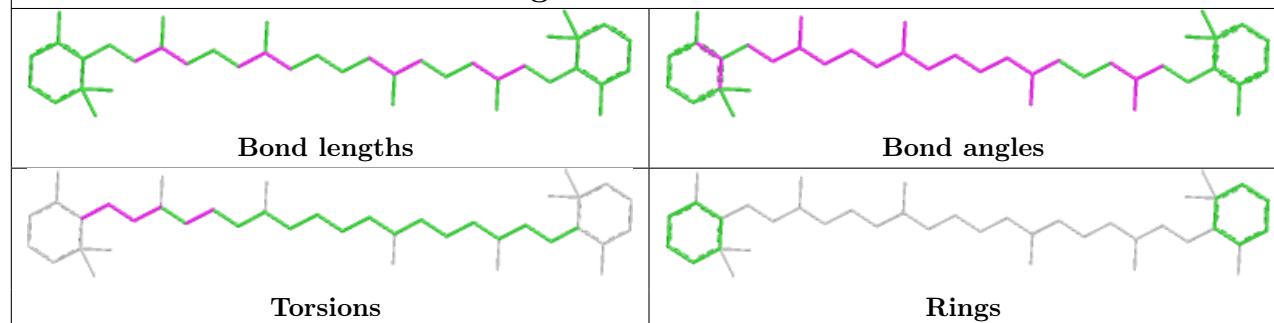




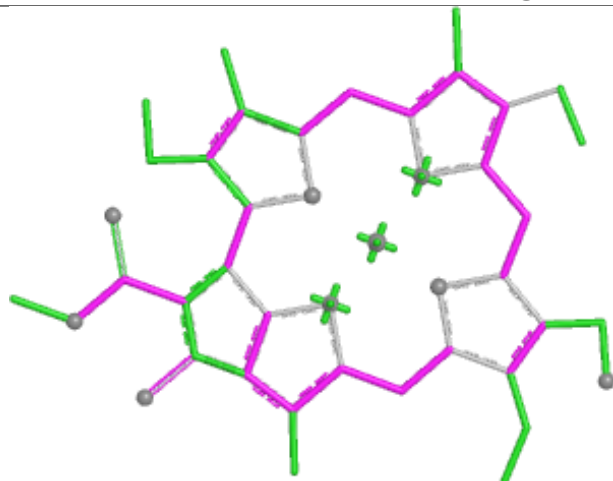
Ligand CLA J 101



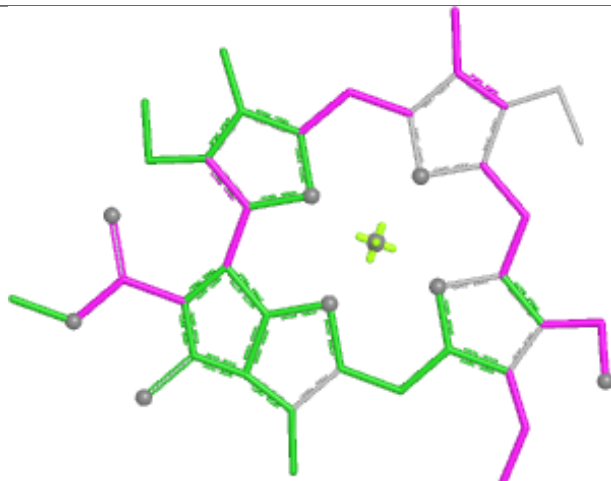
Ligand BCR B 801



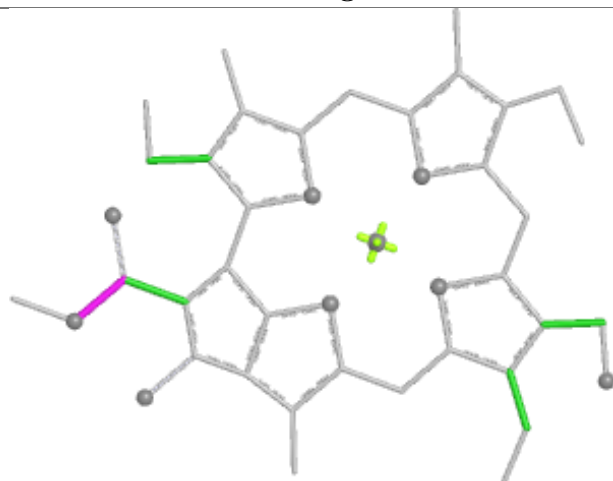
Ligand CHL 2 615



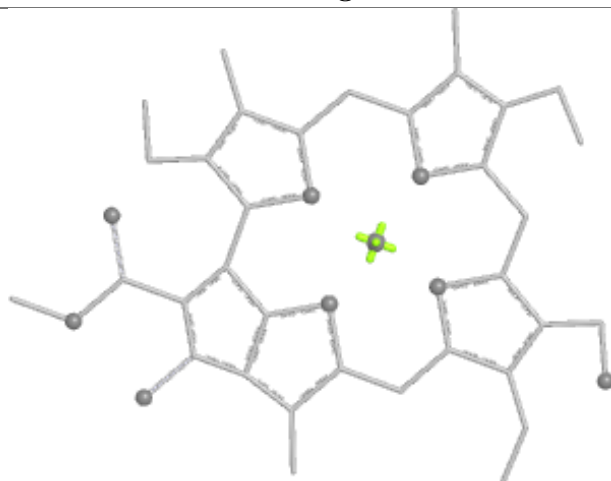
Bond lengths



Bond angles

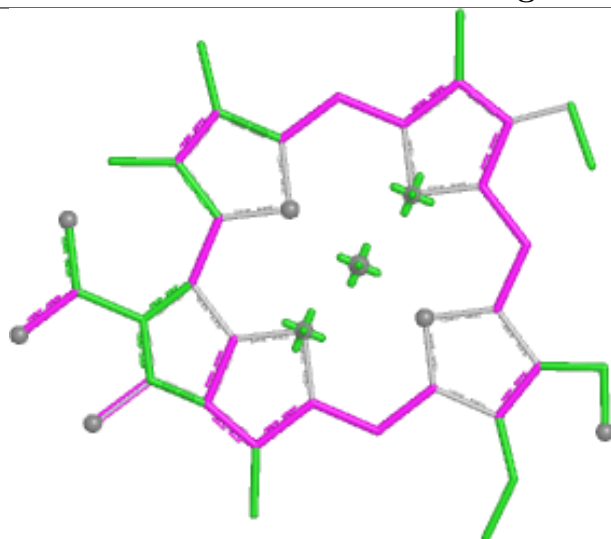


Torsions

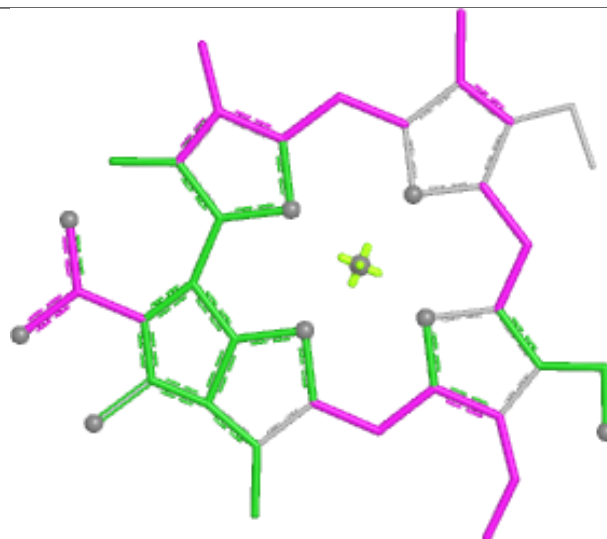


Rings

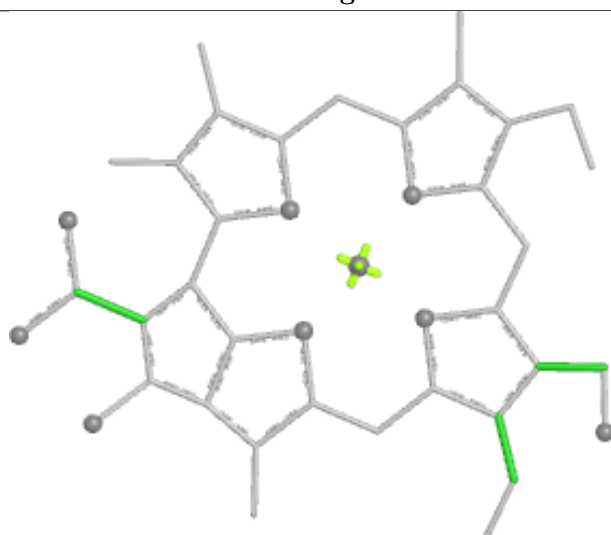
Ligand CHL 1 606



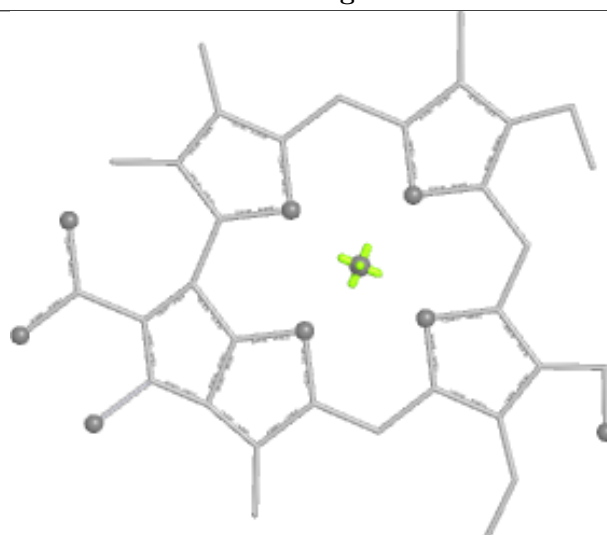
Bond lengths



Bond angles

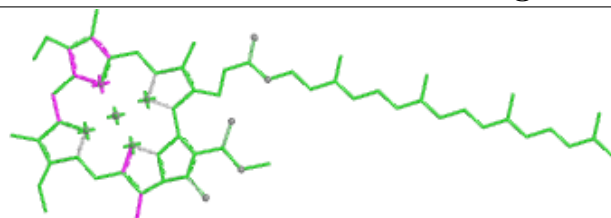


Torsions

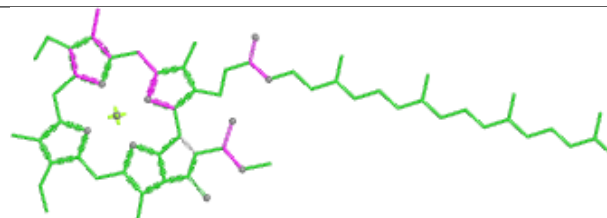


Rings

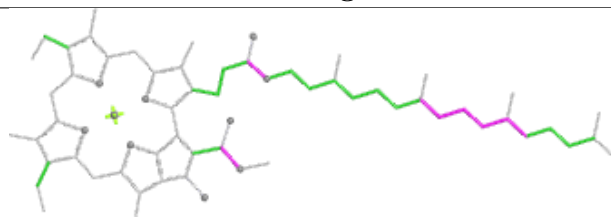
Ligand CLA A 811



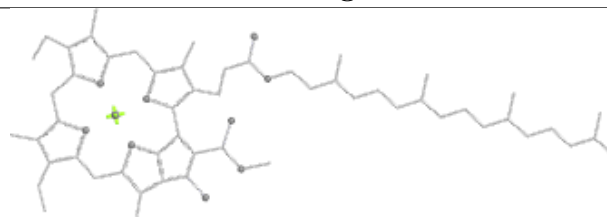
Bond lengths



Bond angles

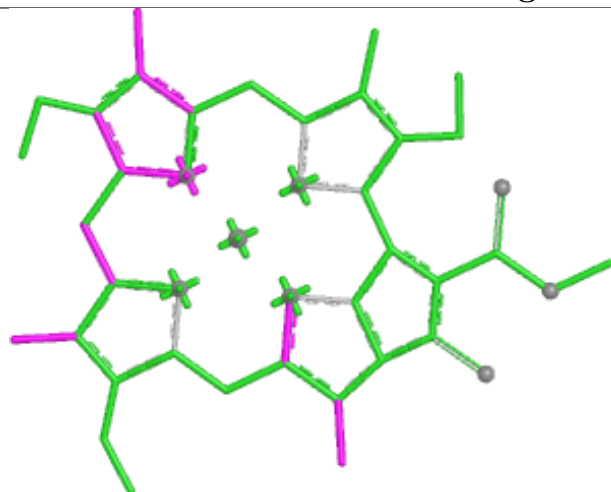


Torsions

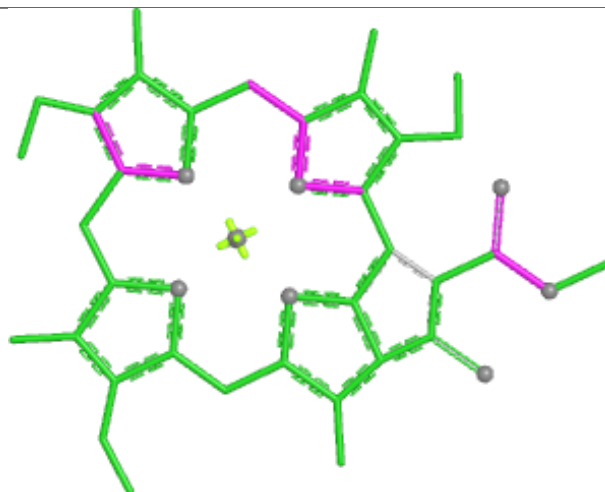


Rings

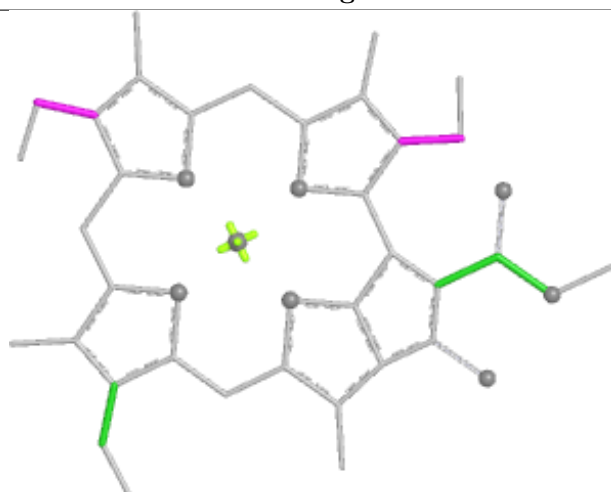
Ligand CLA 4 610



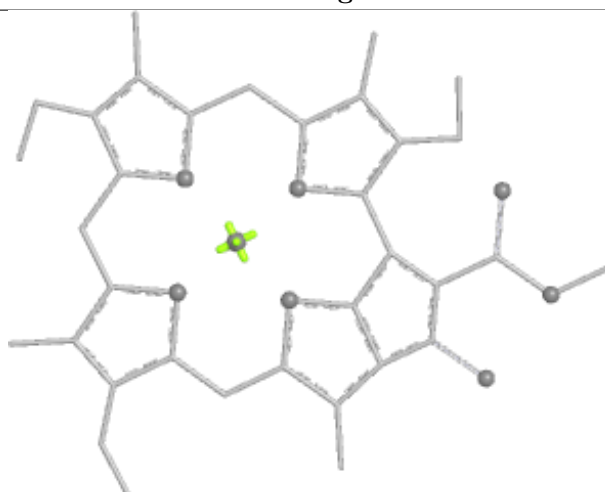
Bond lengths



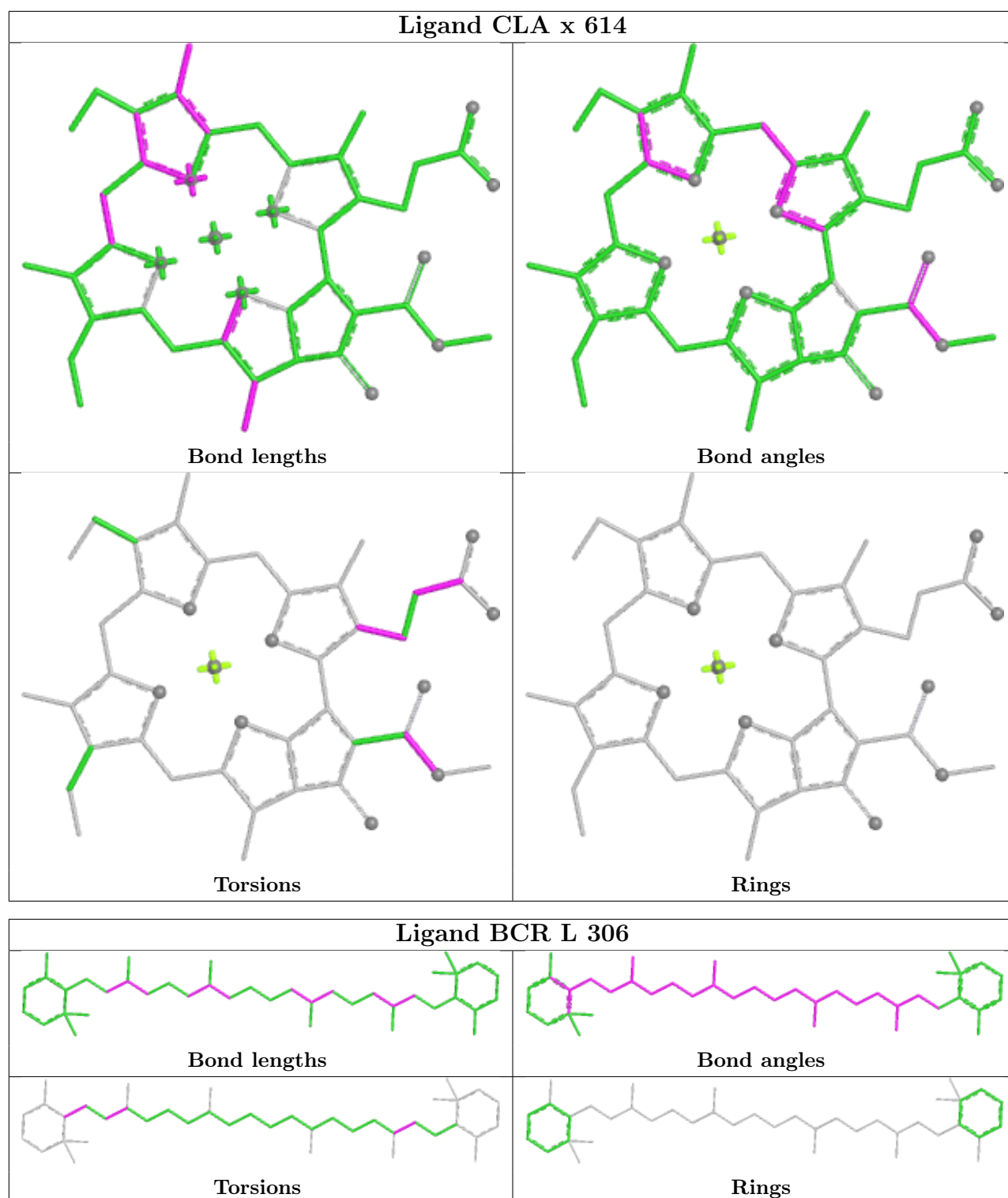
Bond angles

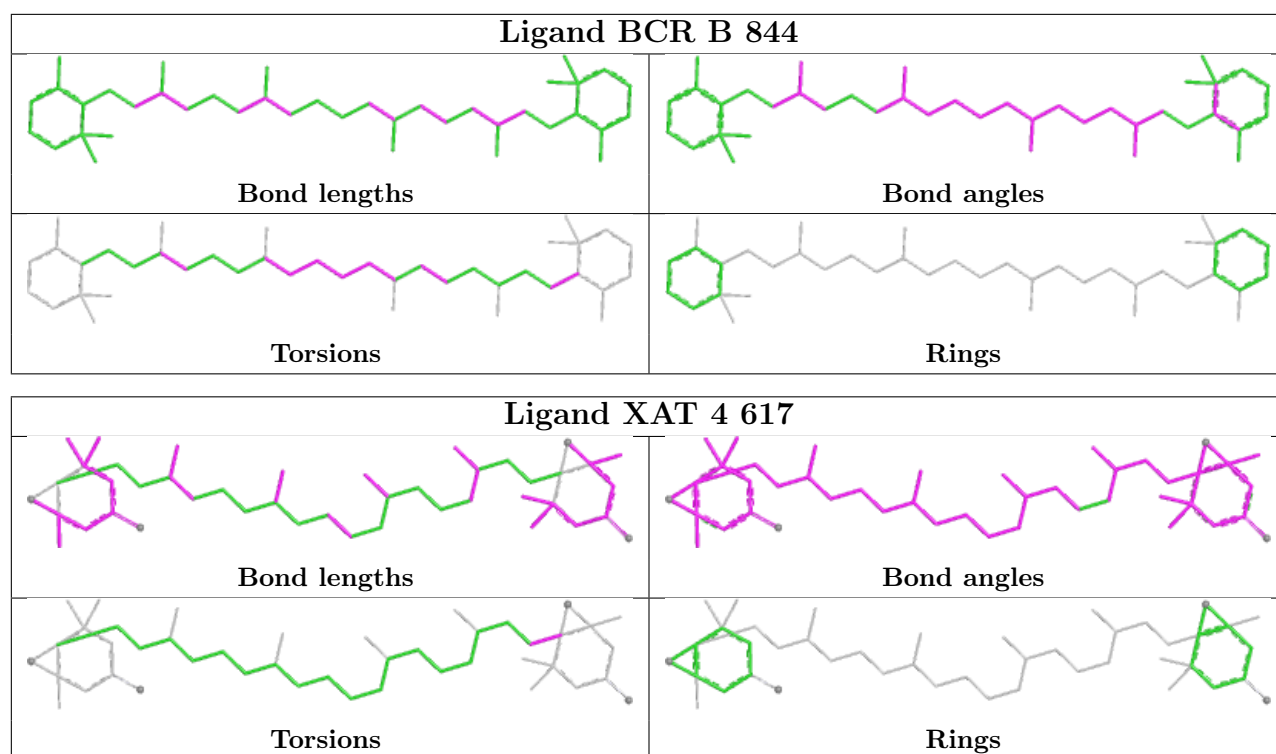


Torsions

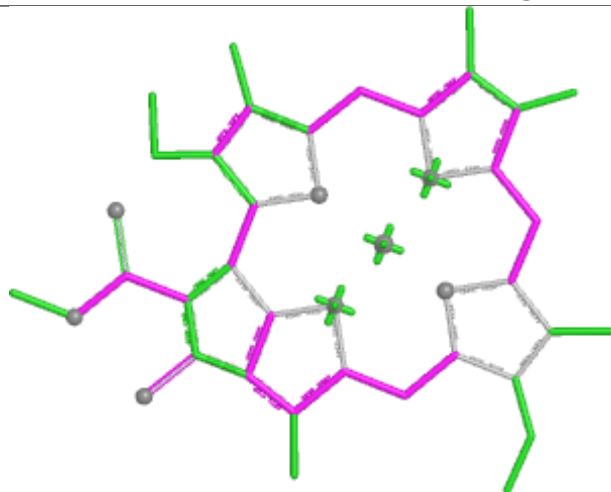


Rings

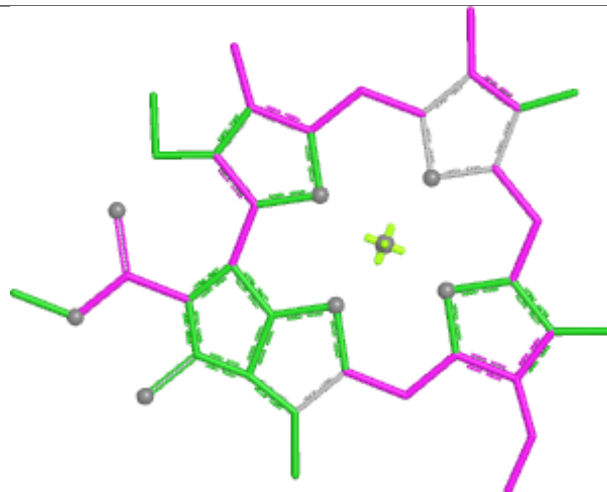




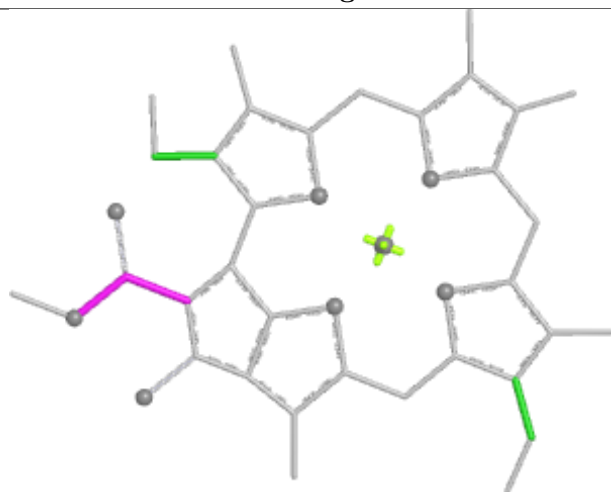
Ligand CHL 4 606



Bond lengths



Bond angles



Torsions

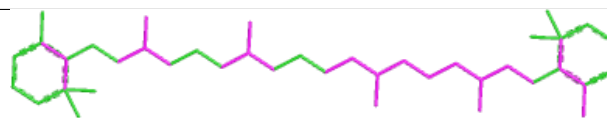


Rings

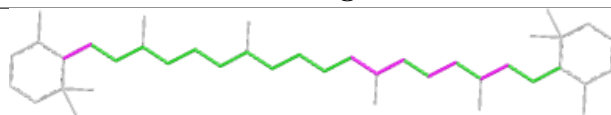
Ligand BCR B 845



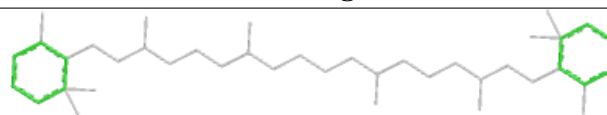
Bond lengths



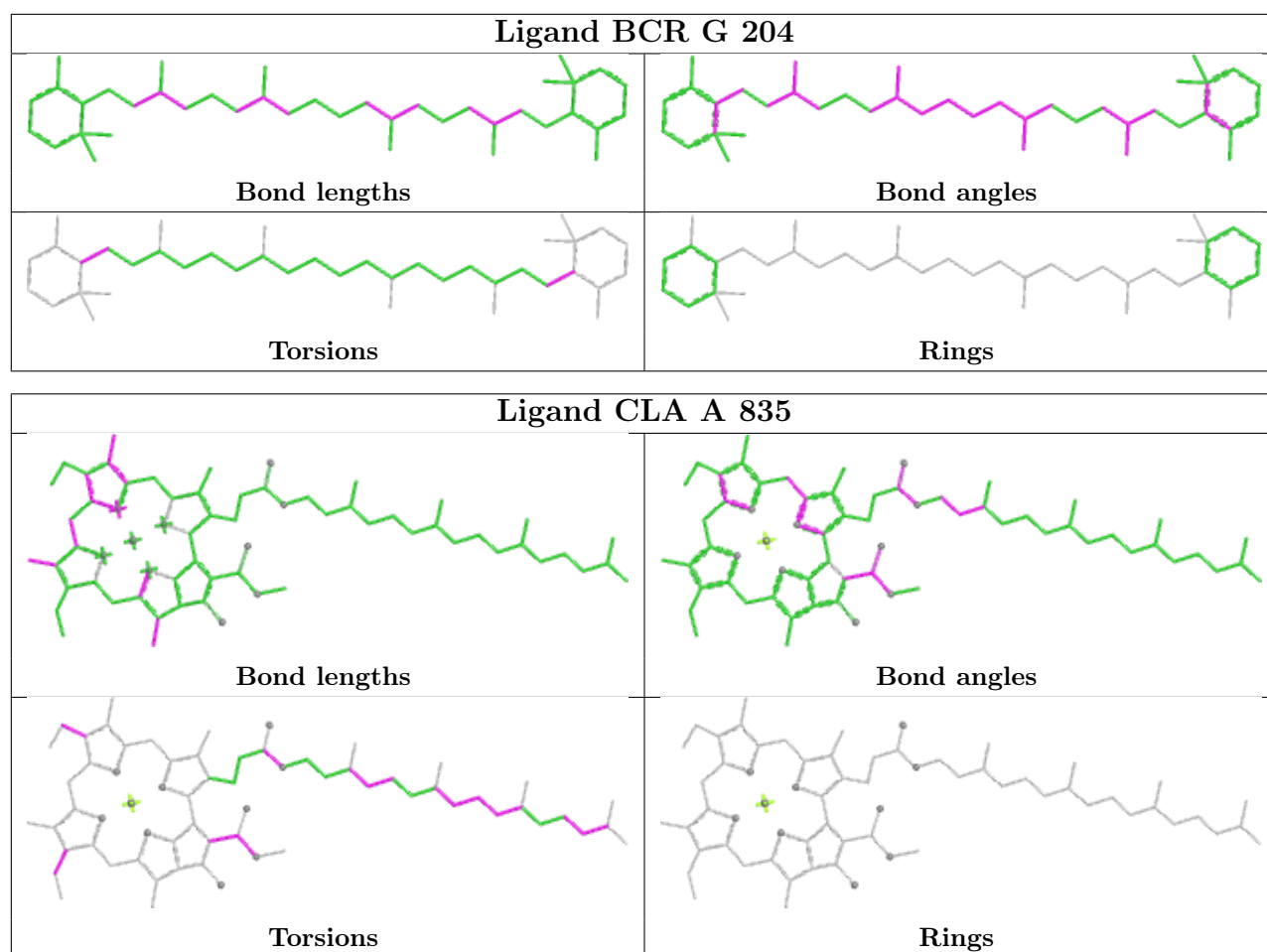
Bond angles

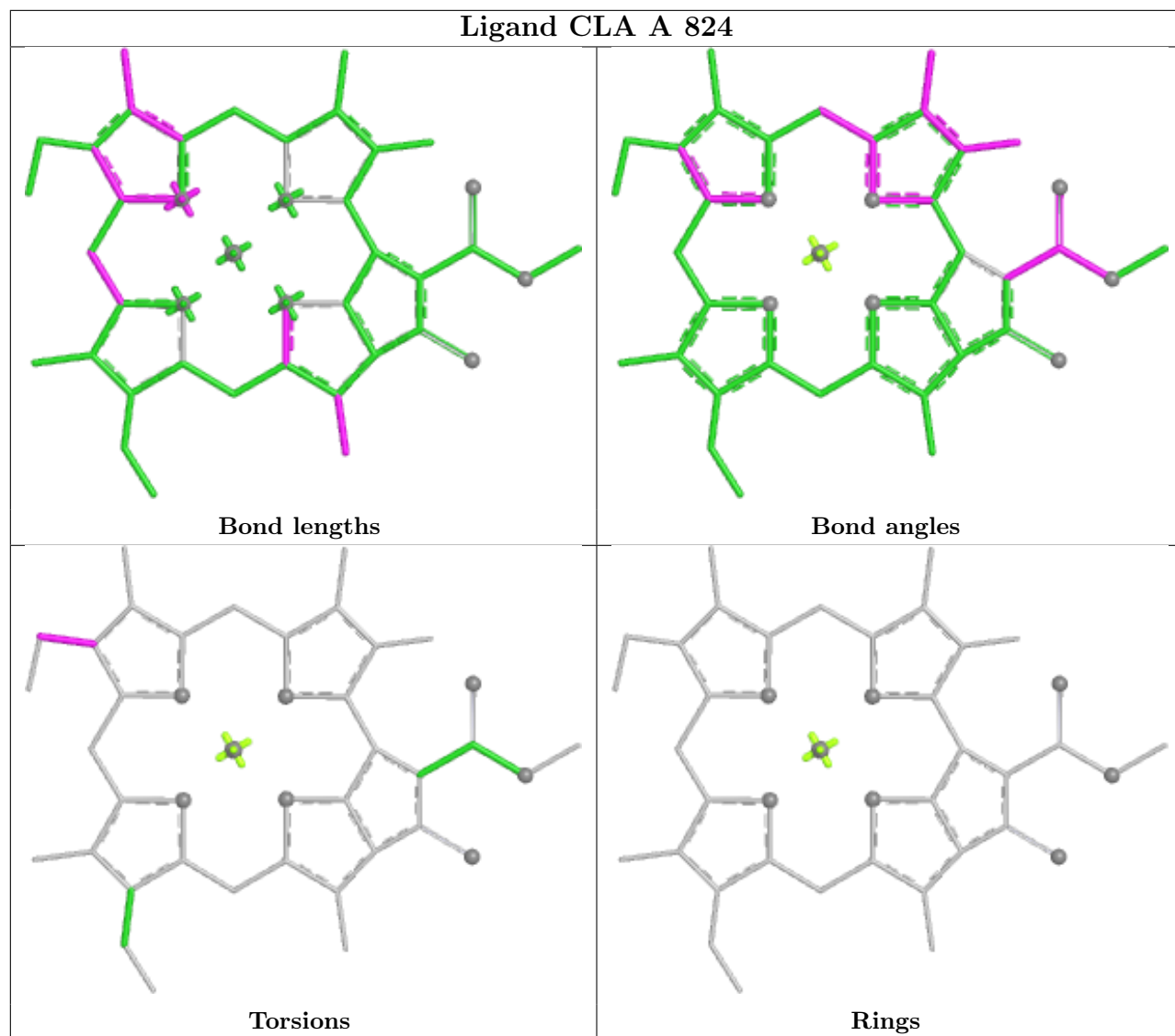


Torsions

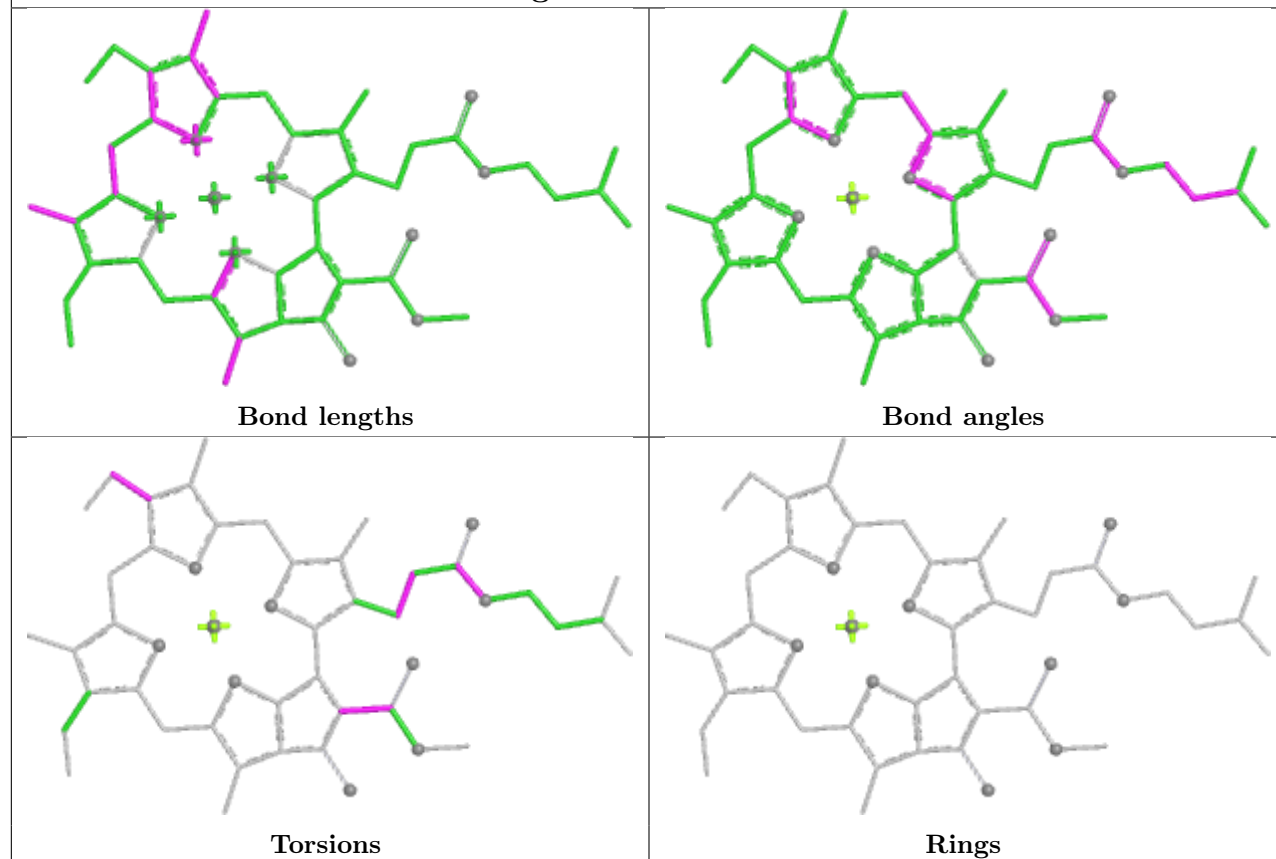


Rings

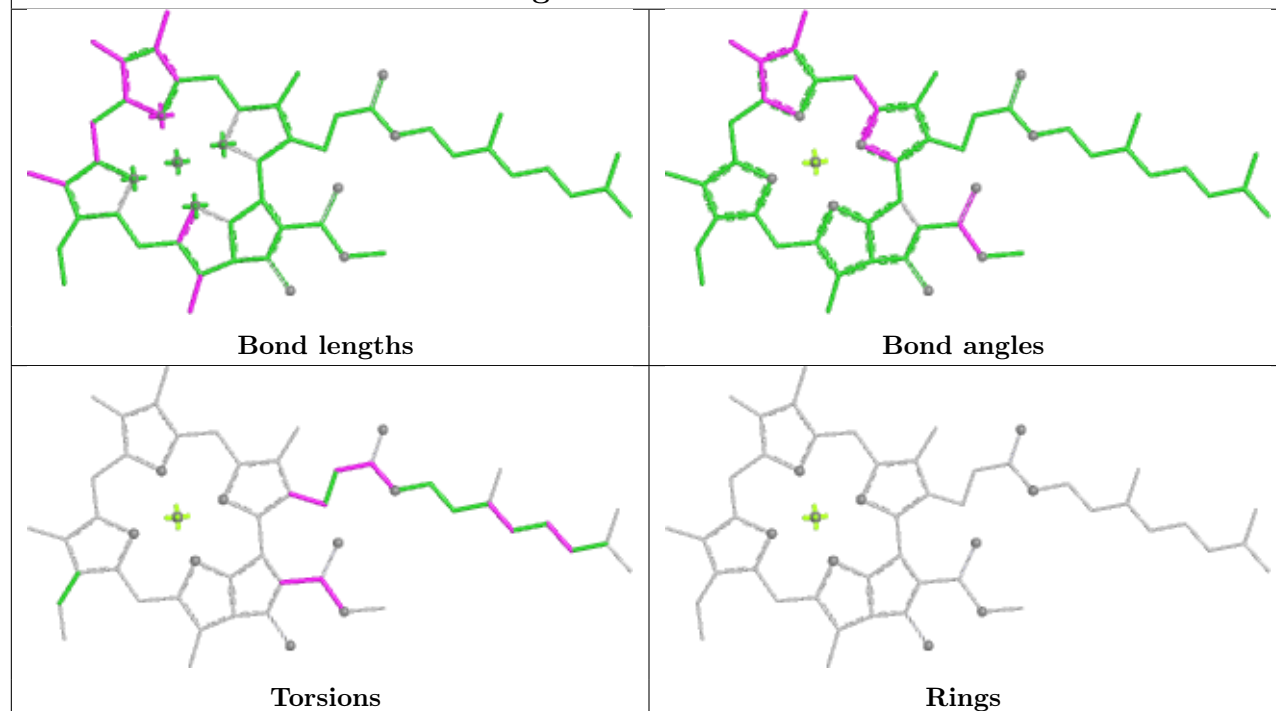


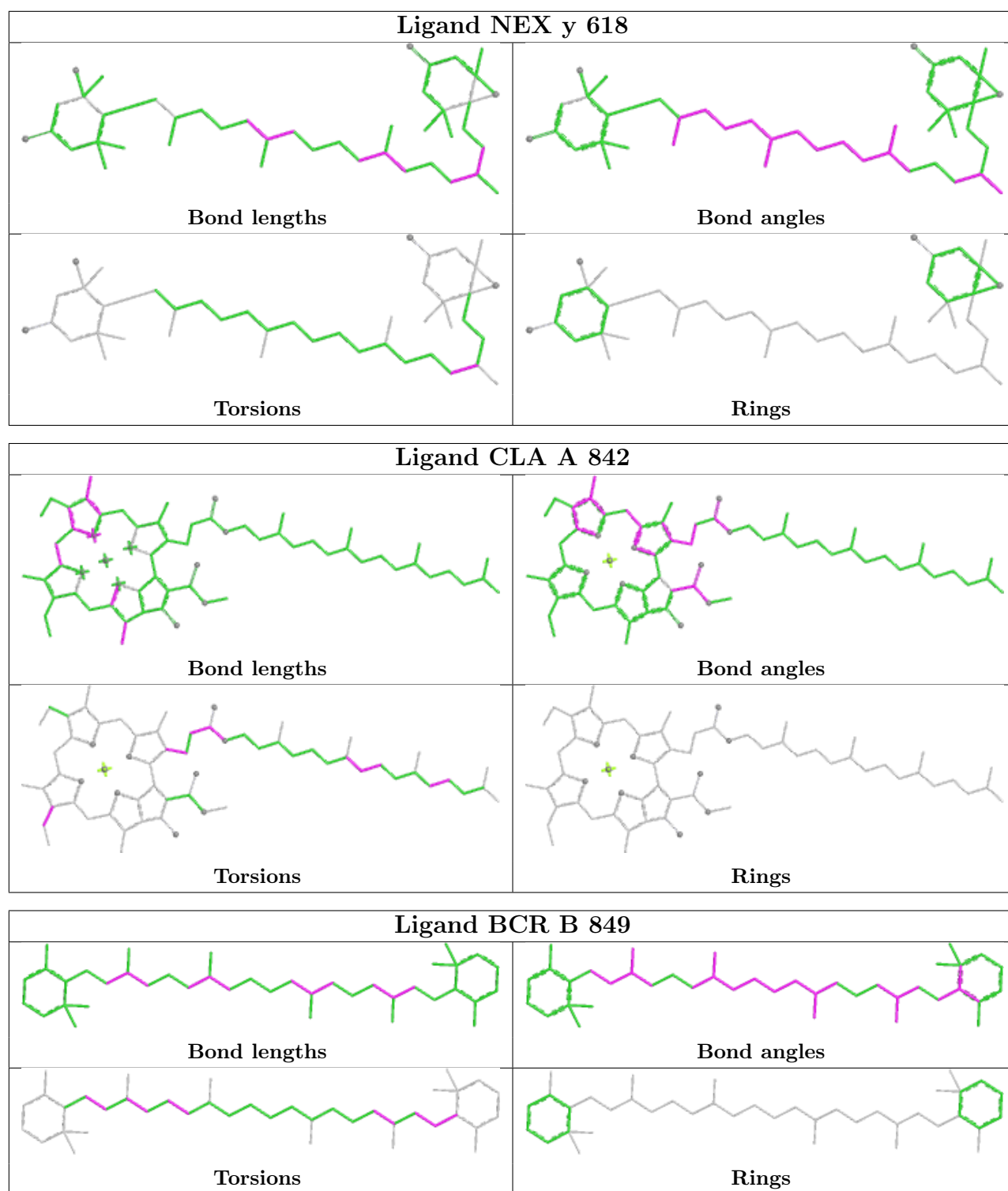


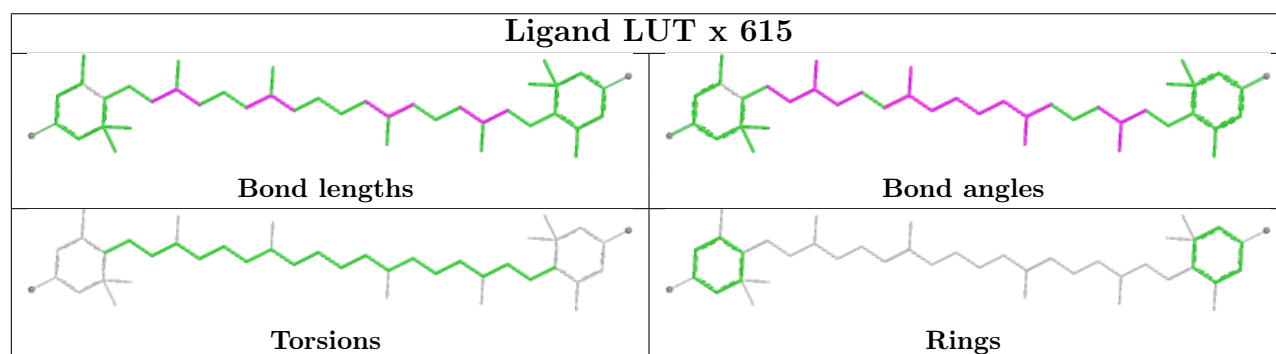
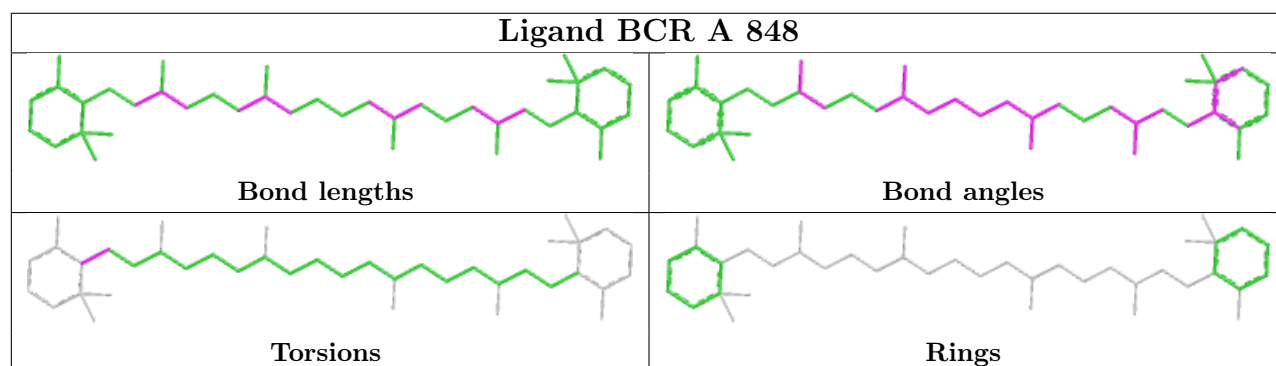
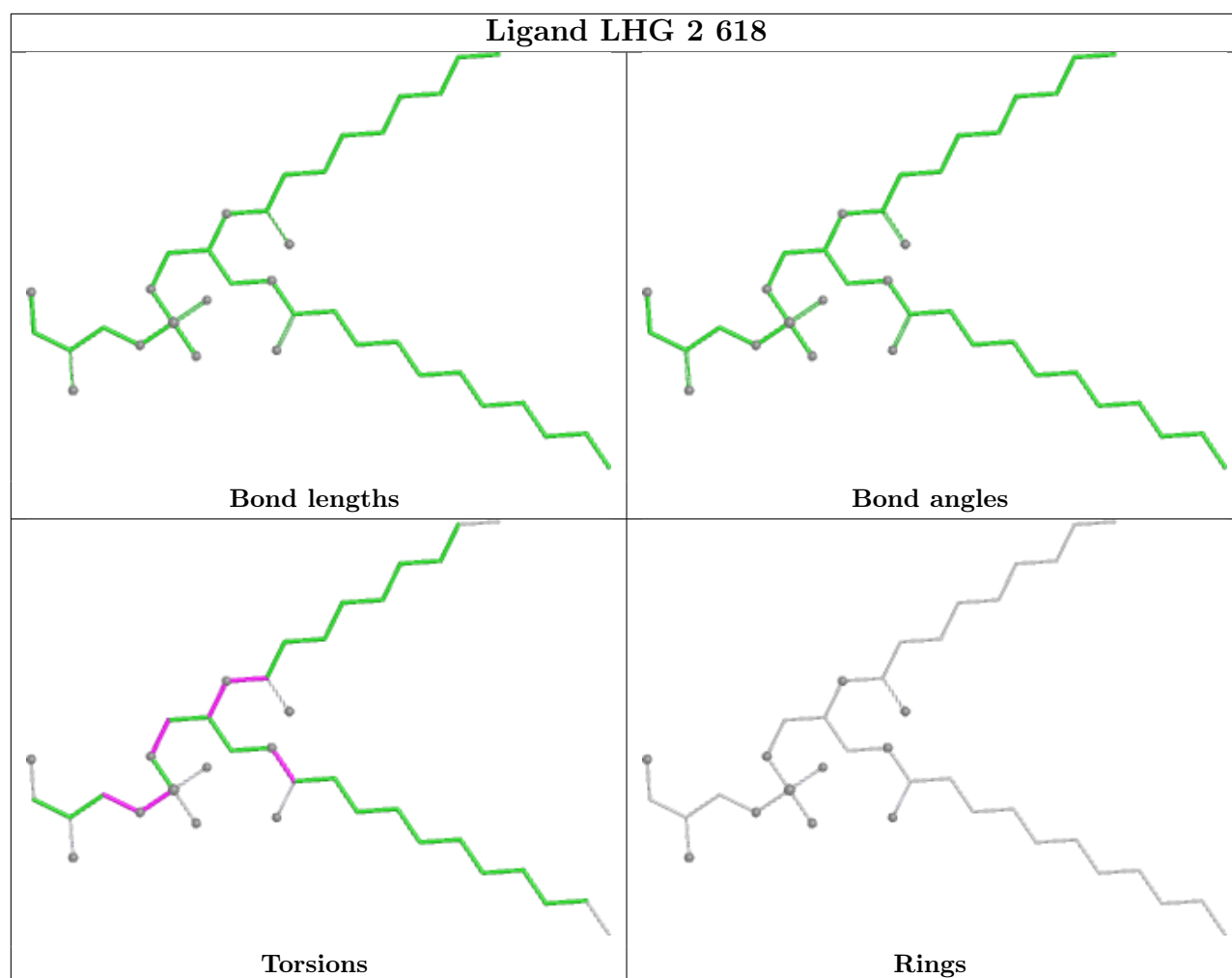
Ligand CLA A 832



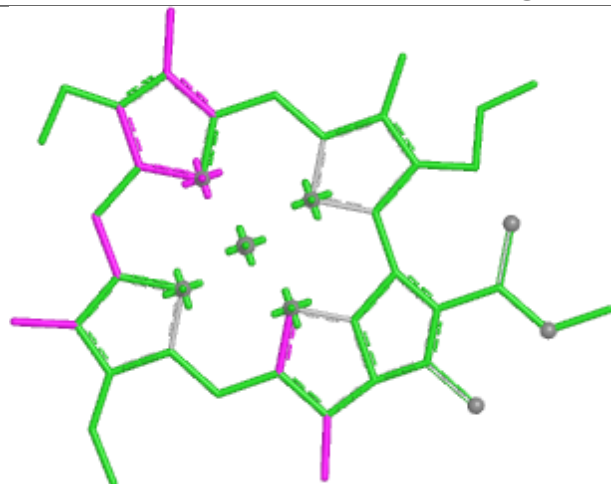
Ligand CLA B 811



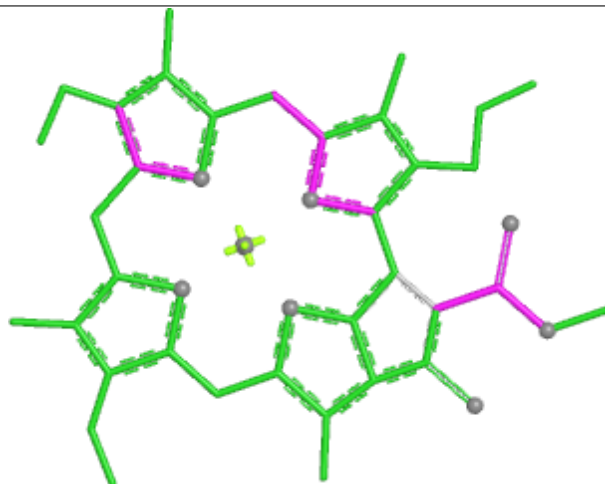




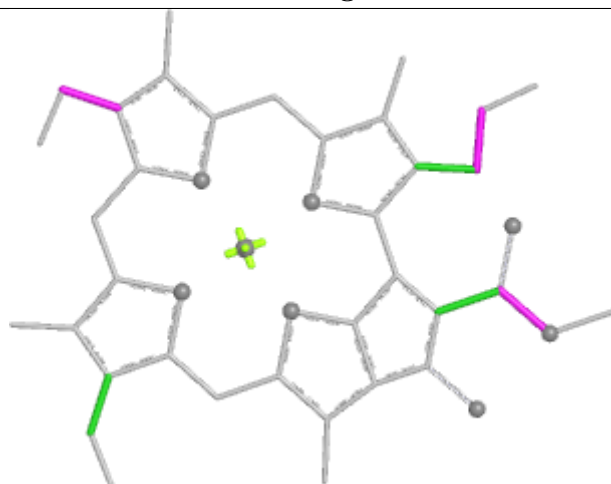
Ligand CLA 2 613



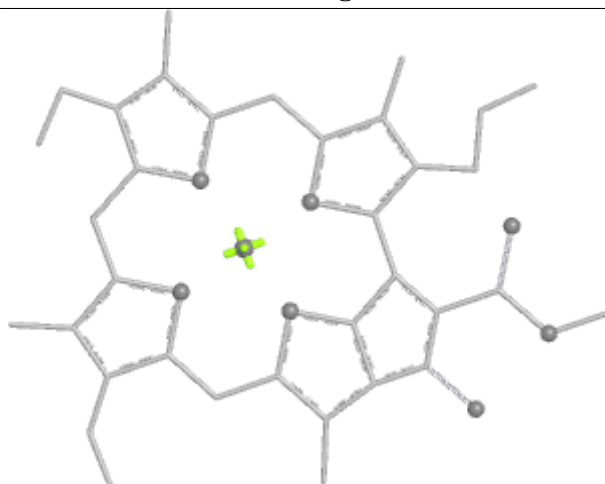
Bond lengths



Bond angles

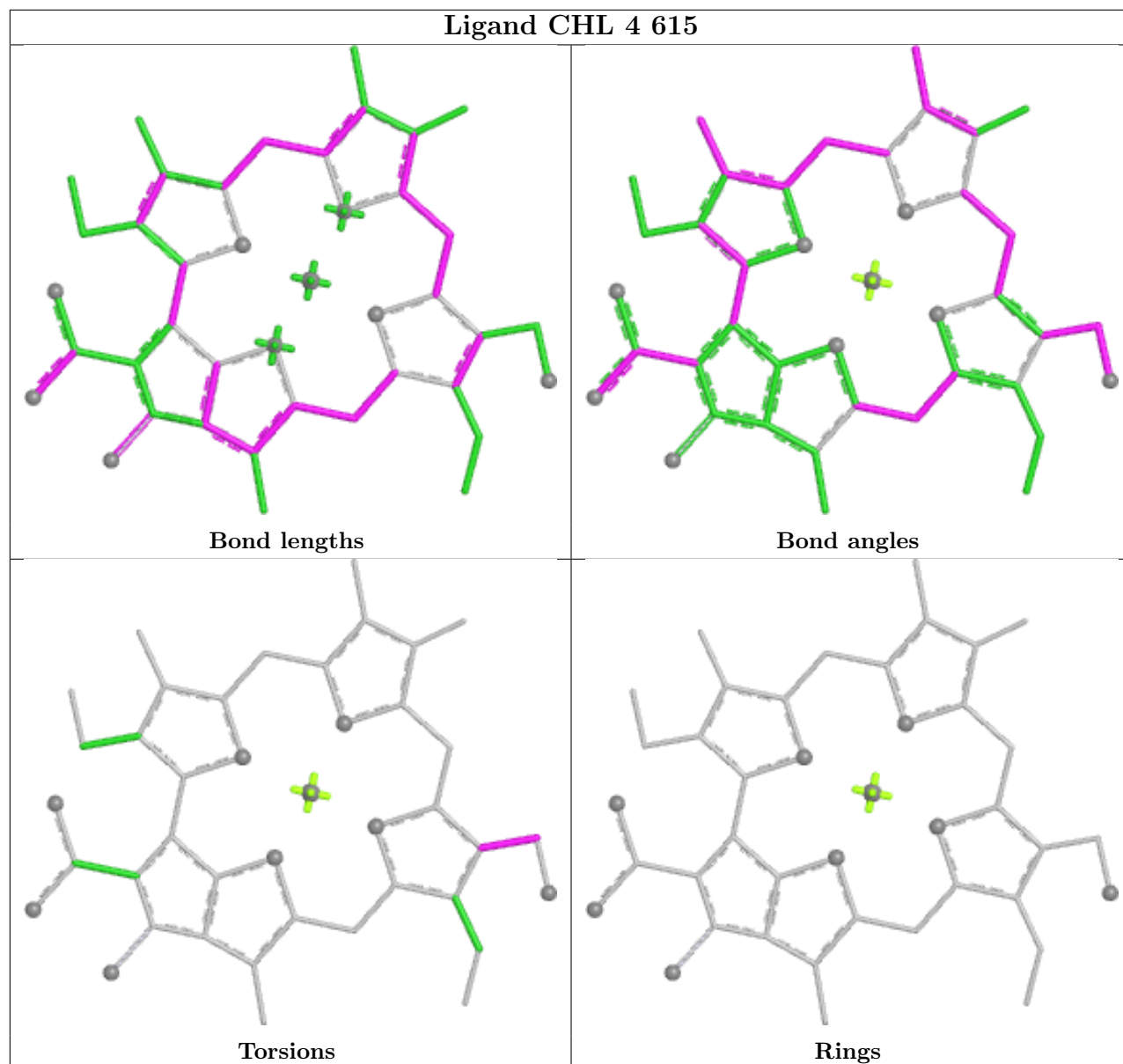


Torsions

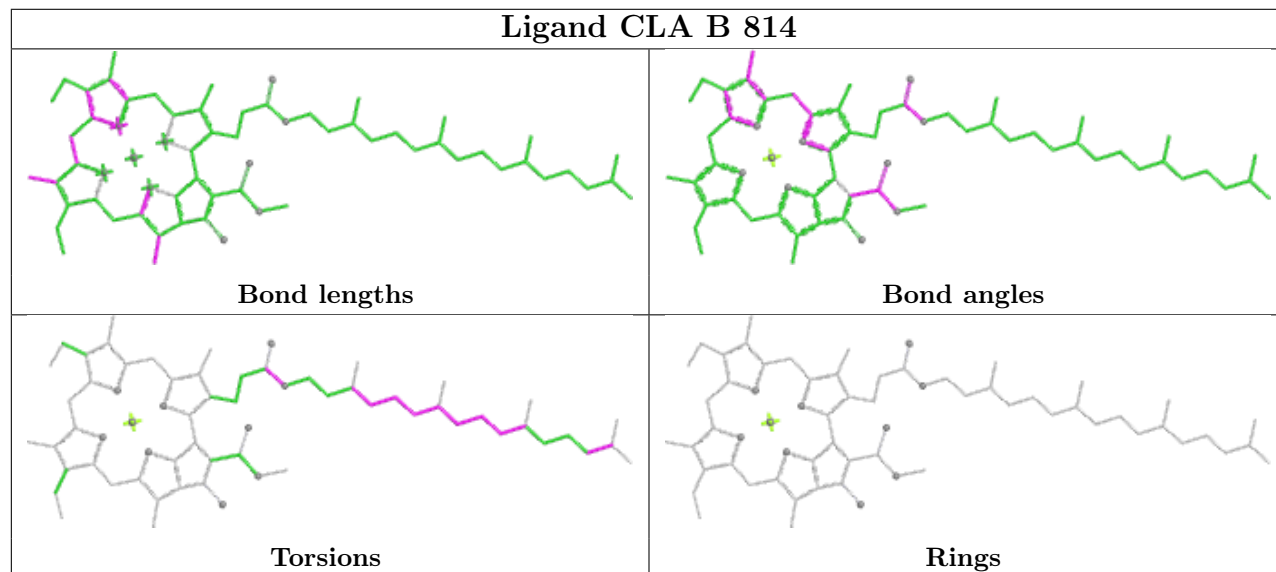


Rings

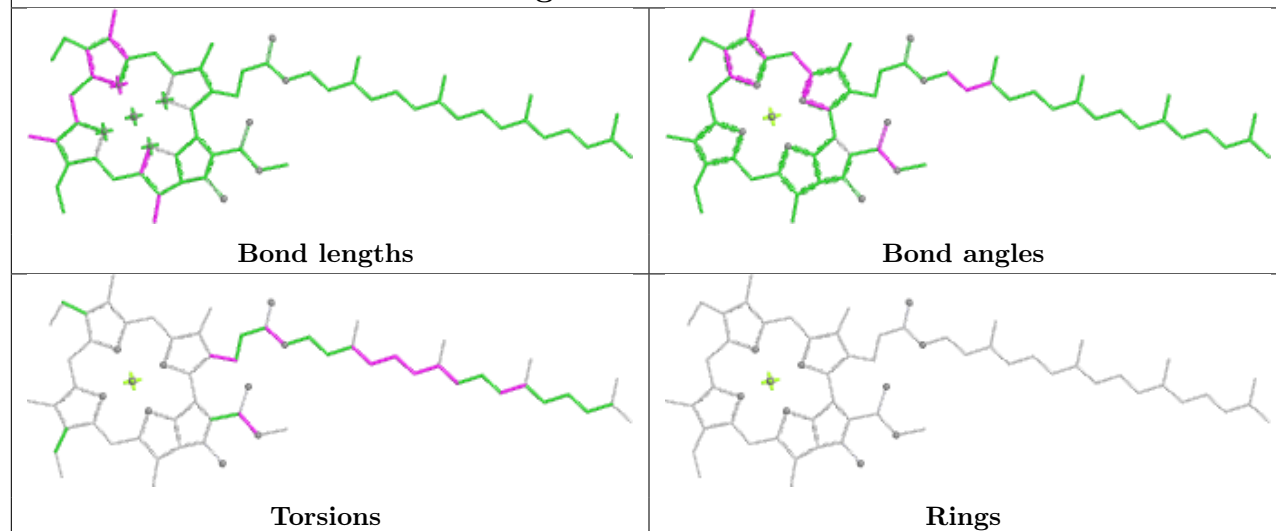
Ligand CHL 4 615



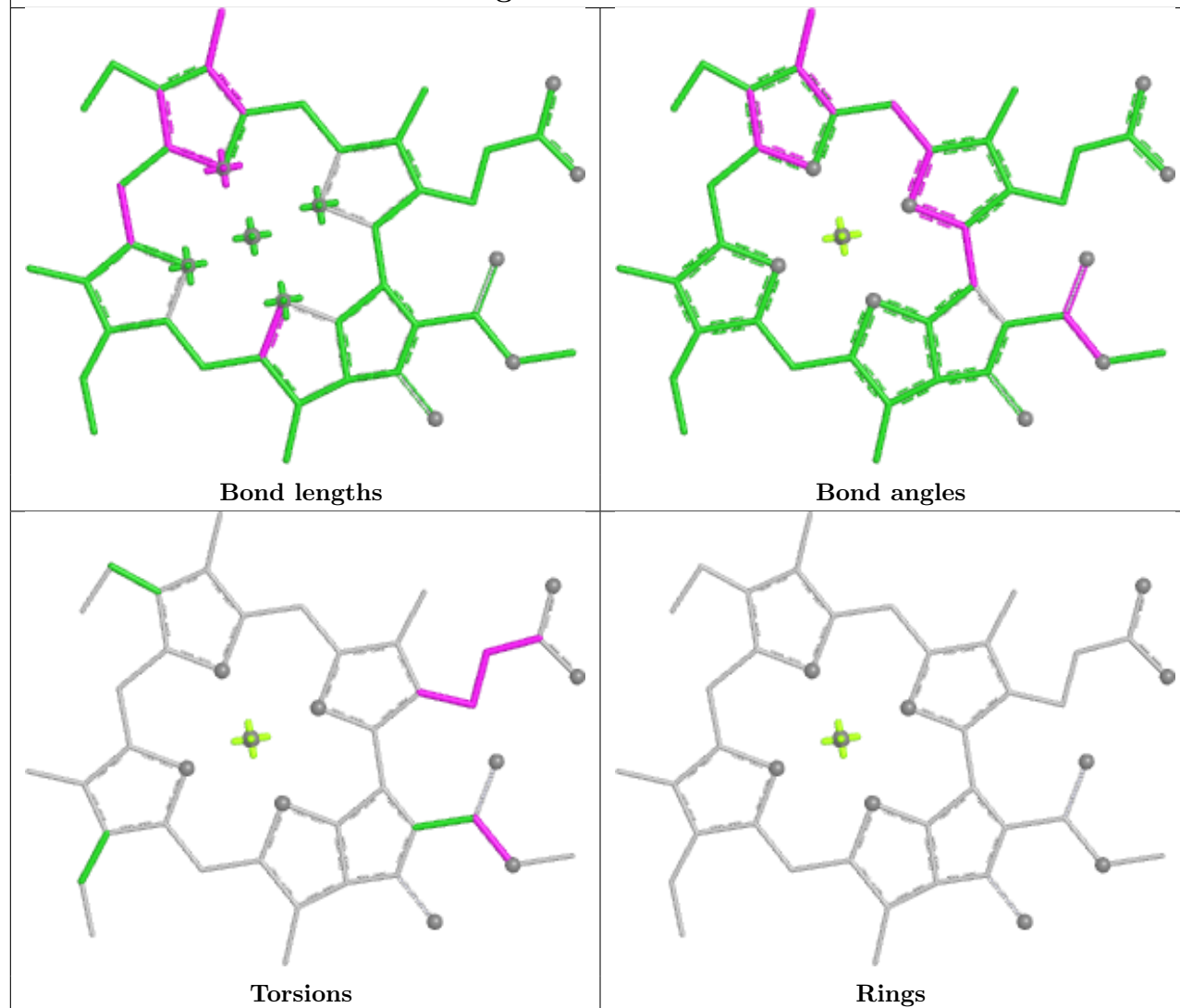
Ligand CLA B 814



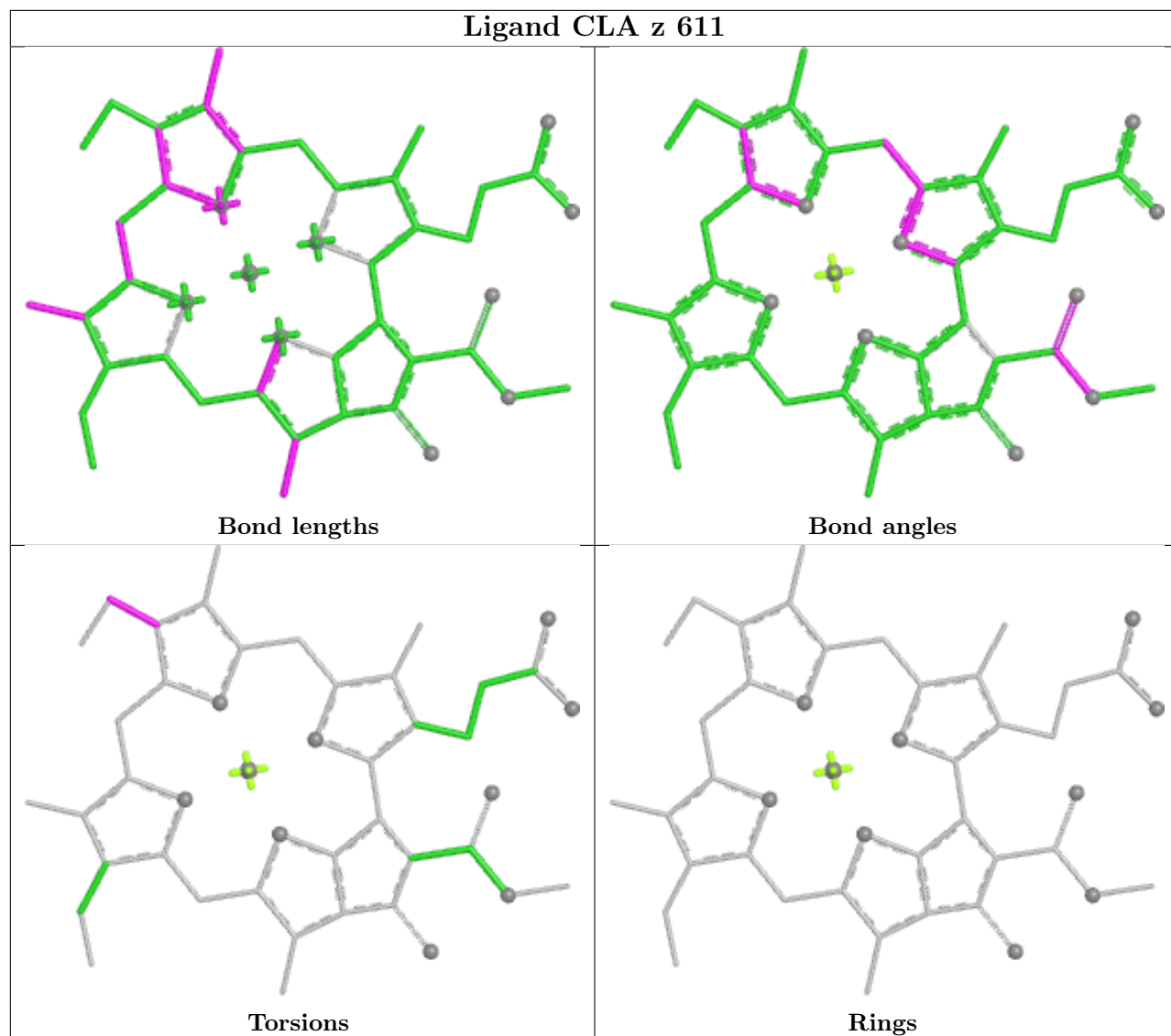
Ligand CLA x 610

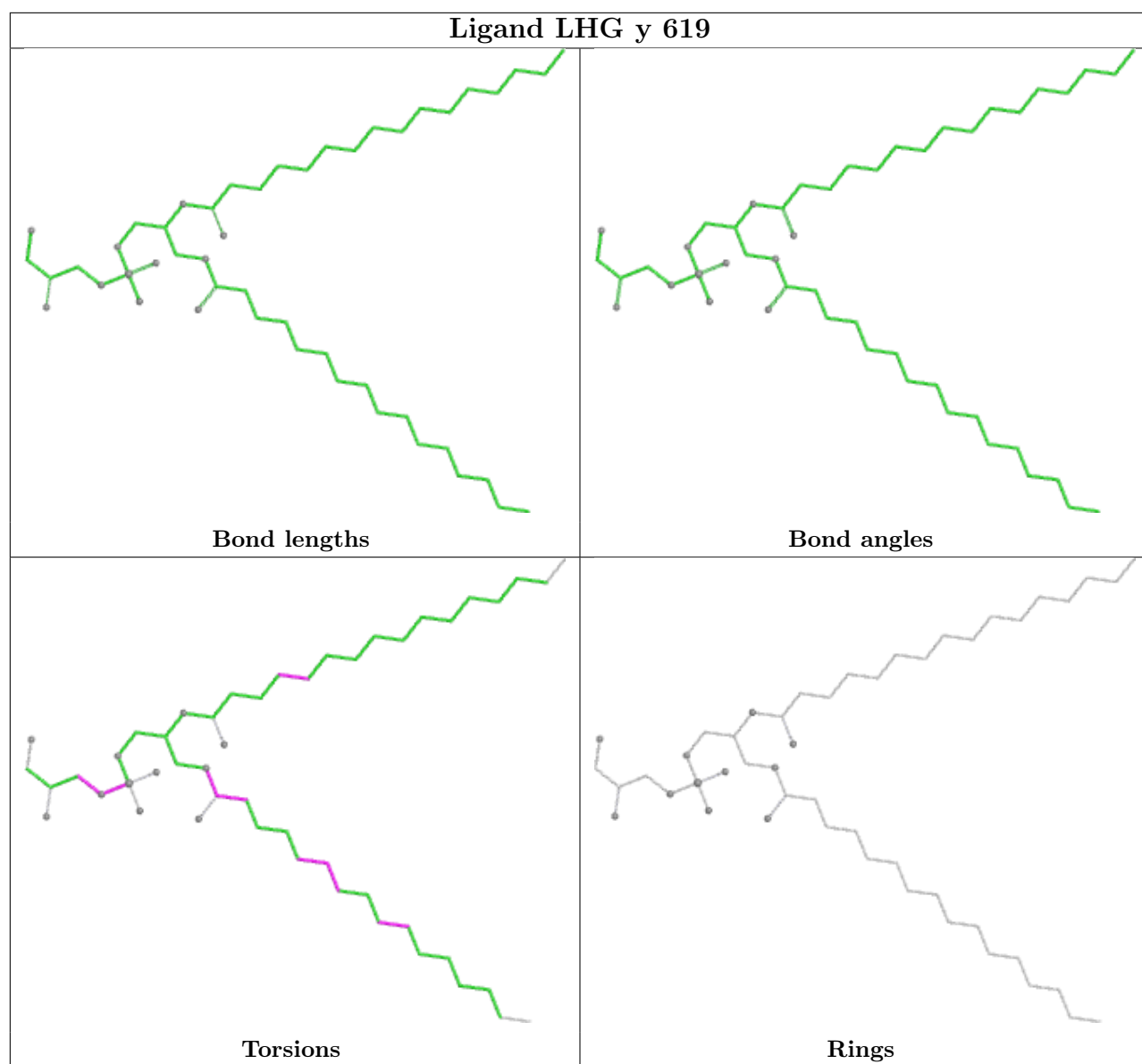


Ligand CLA 3 603

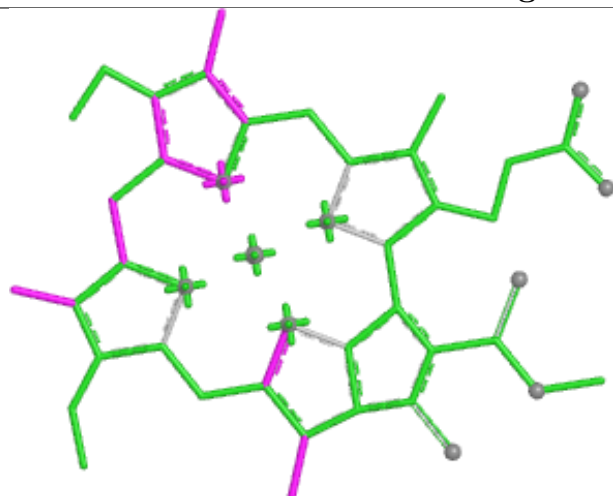


Ligand CLA z 611

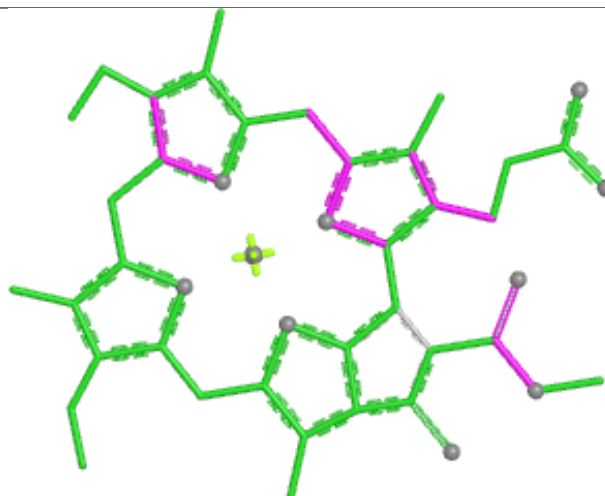




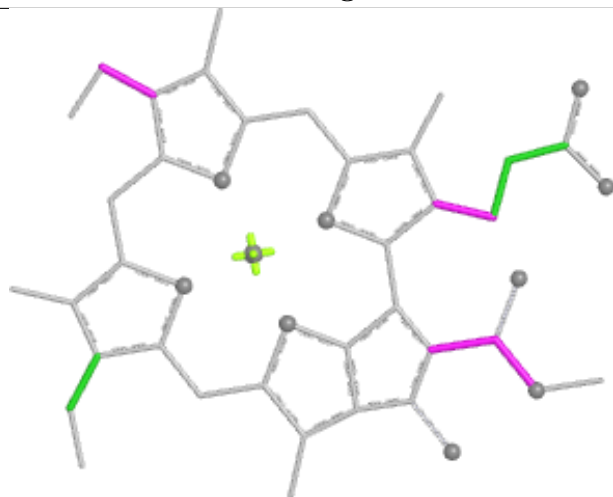
Ligand CLA 4 613



Bond lengths



Bond angles

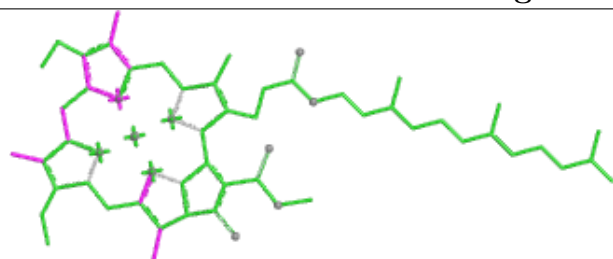


Torsions

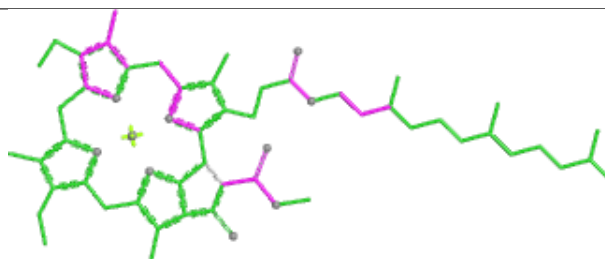


Rings

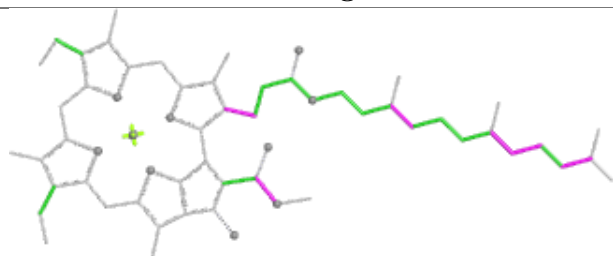
Ligand CLA B 818



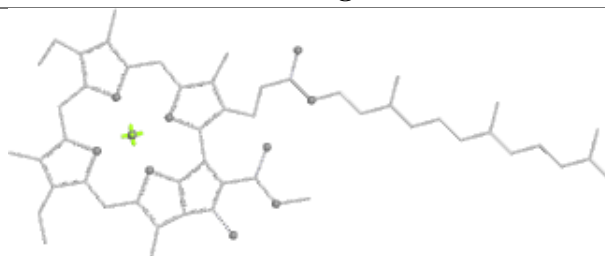
Bond lengths



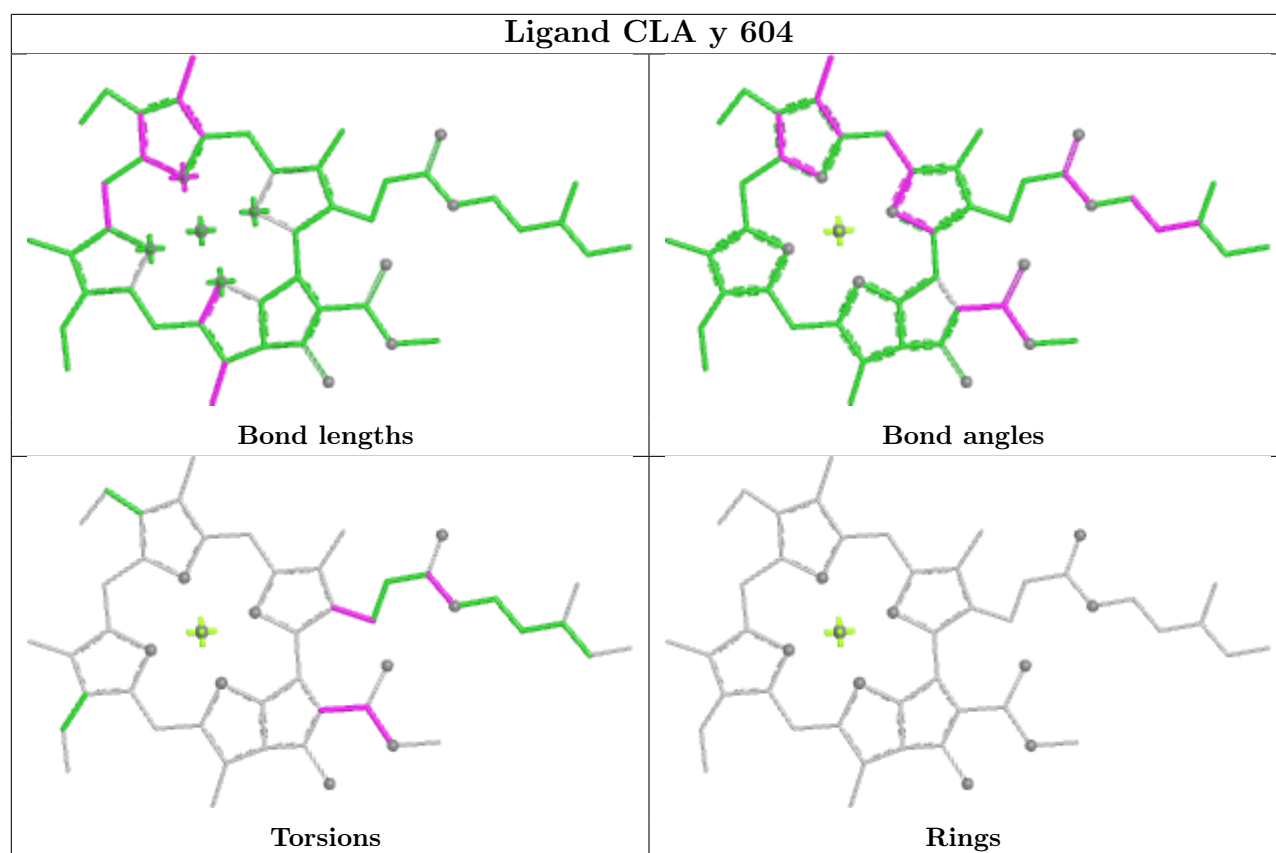
Bond angles



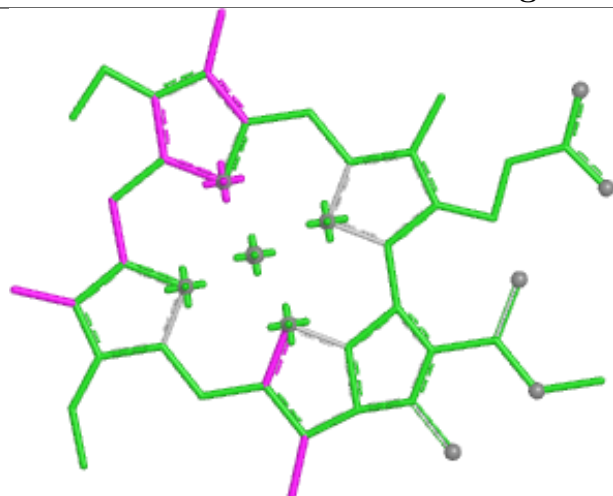
Torsions



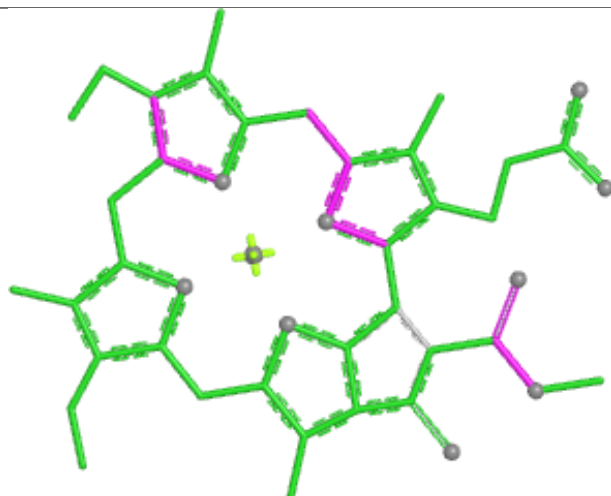
Rings



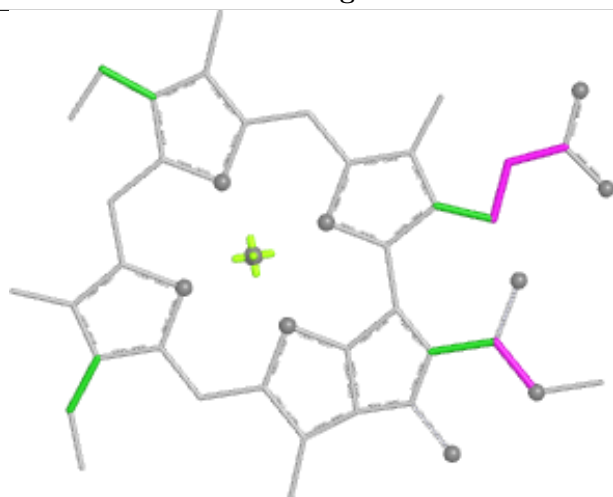
Ligand CLA z 610



Bond lengths



Bond angles

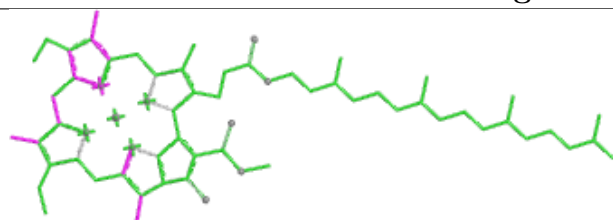


Torsions

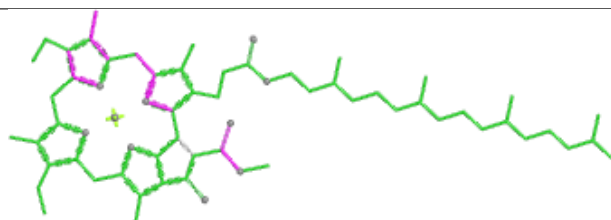


Rings

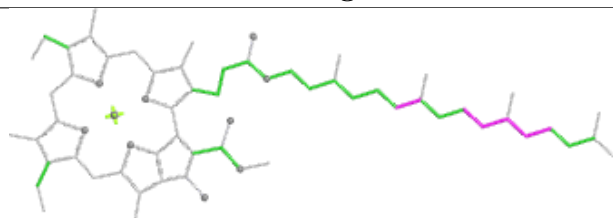
Ligand CLA A 831



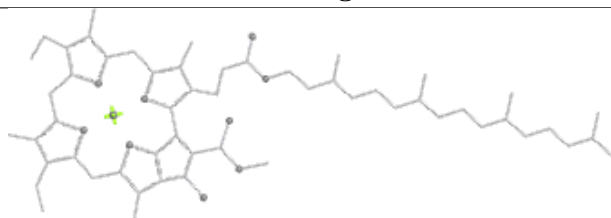
Bond lengths



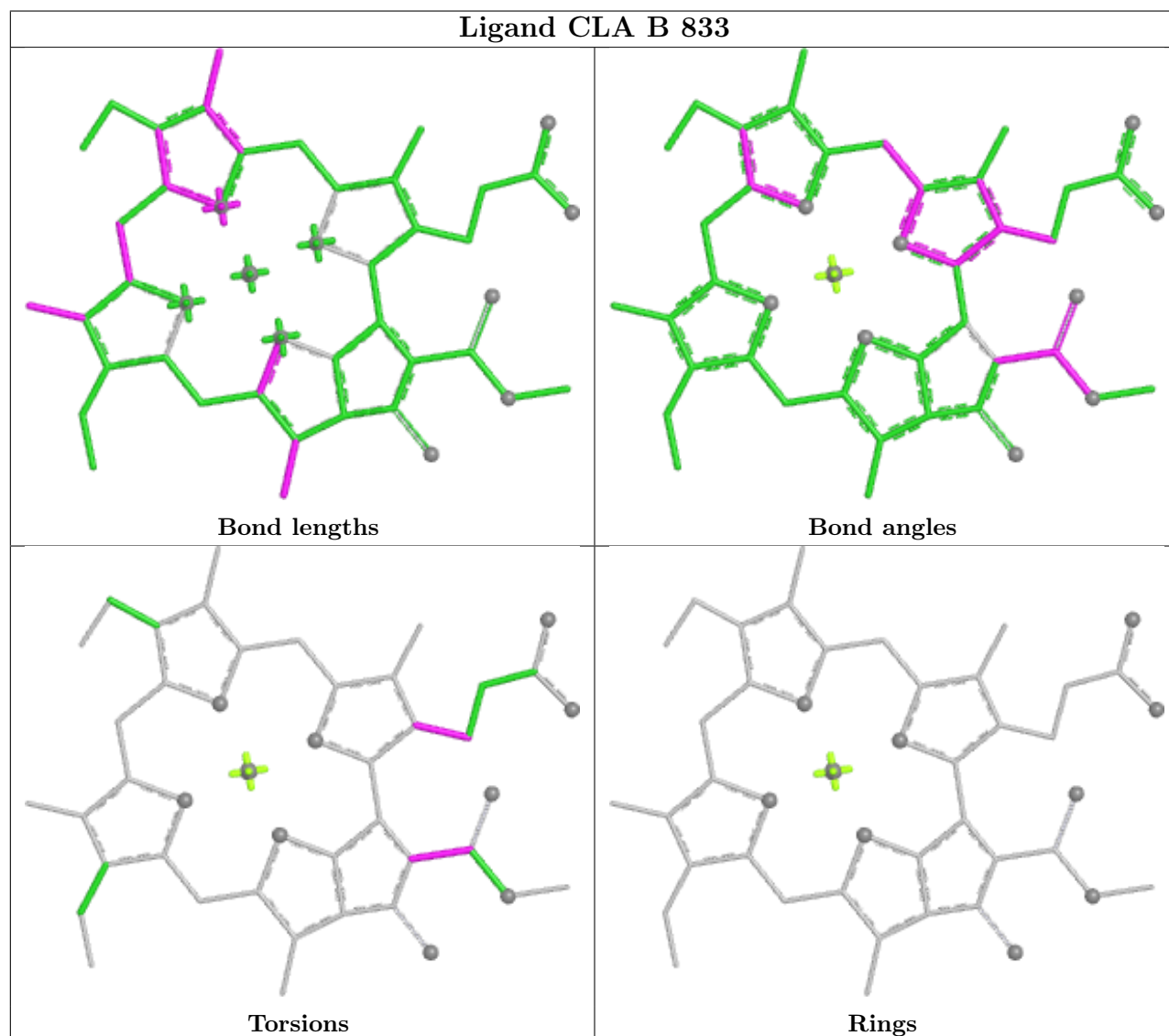
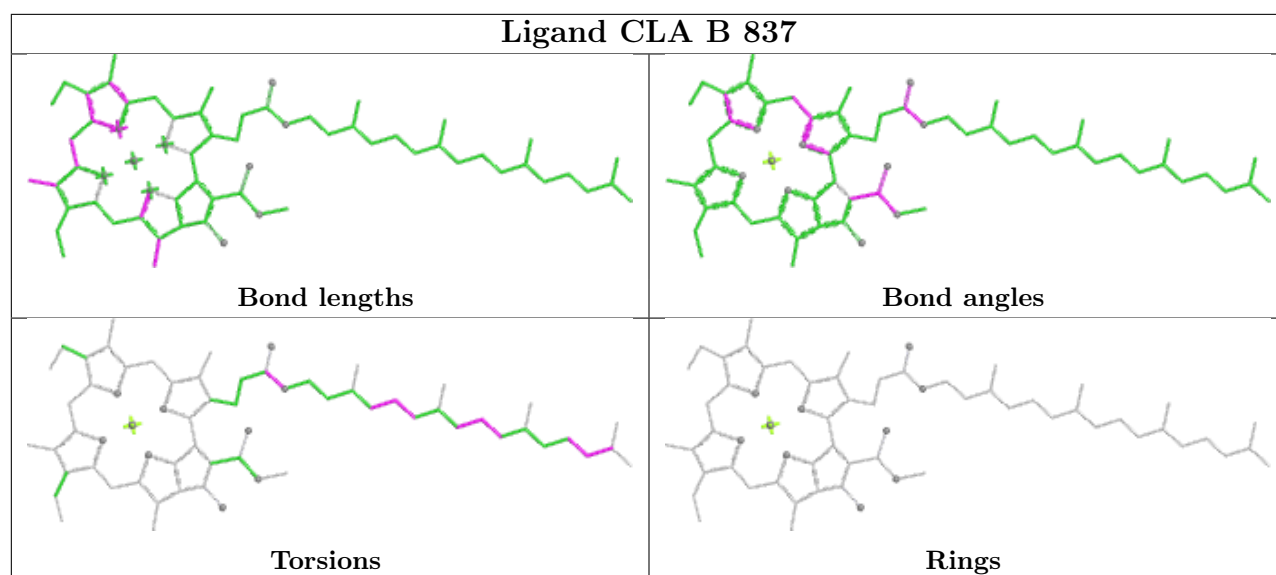
Bond angles

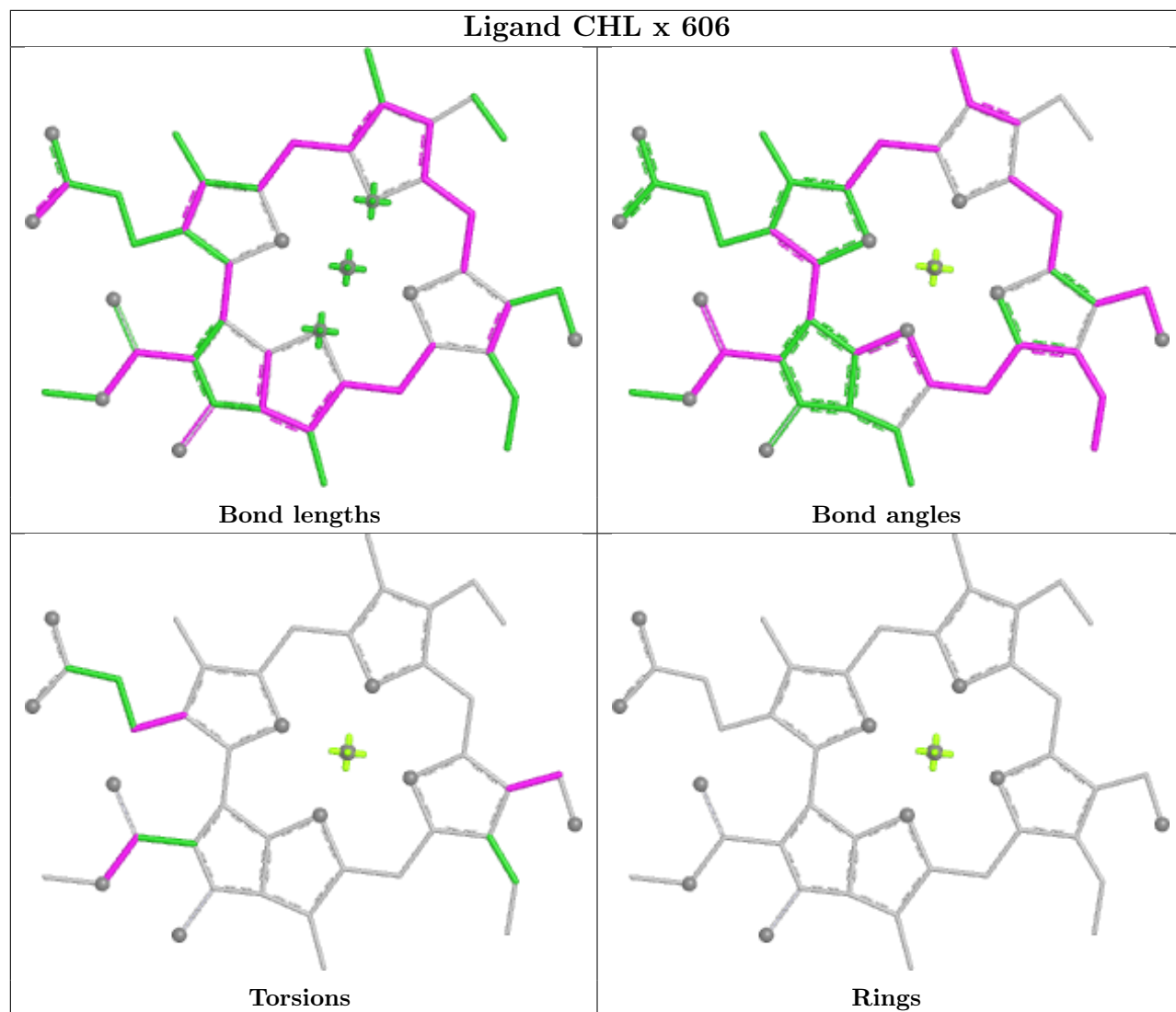


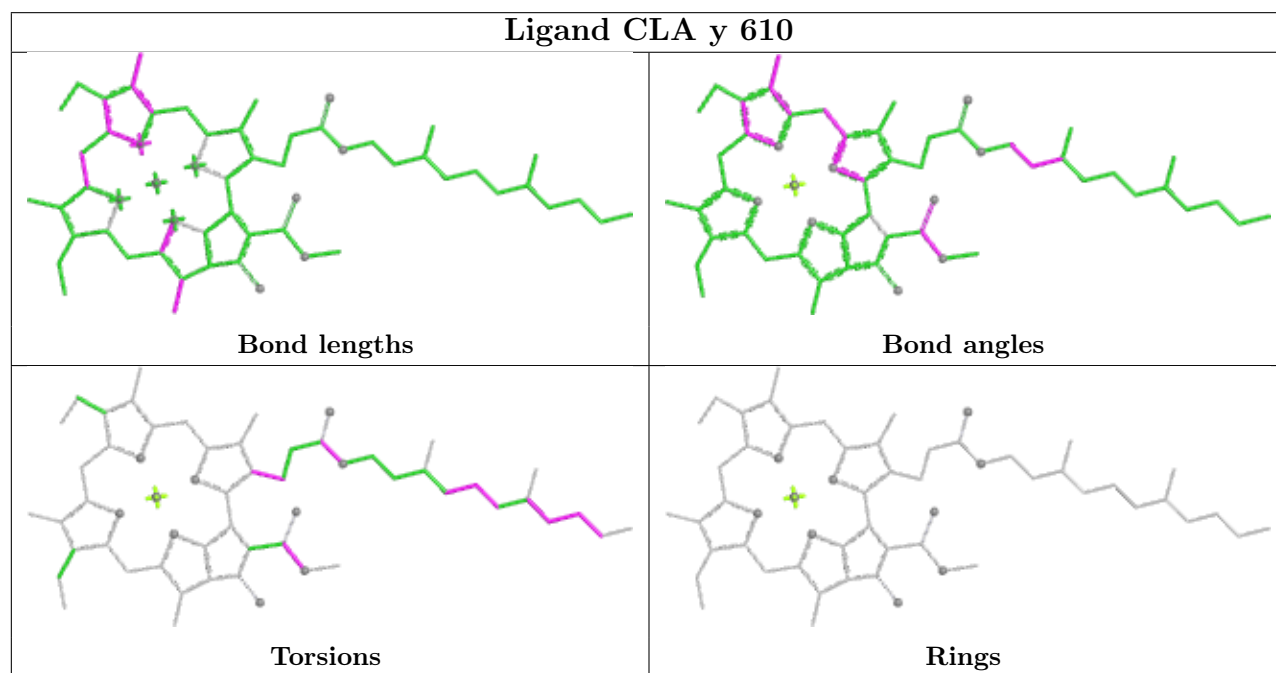
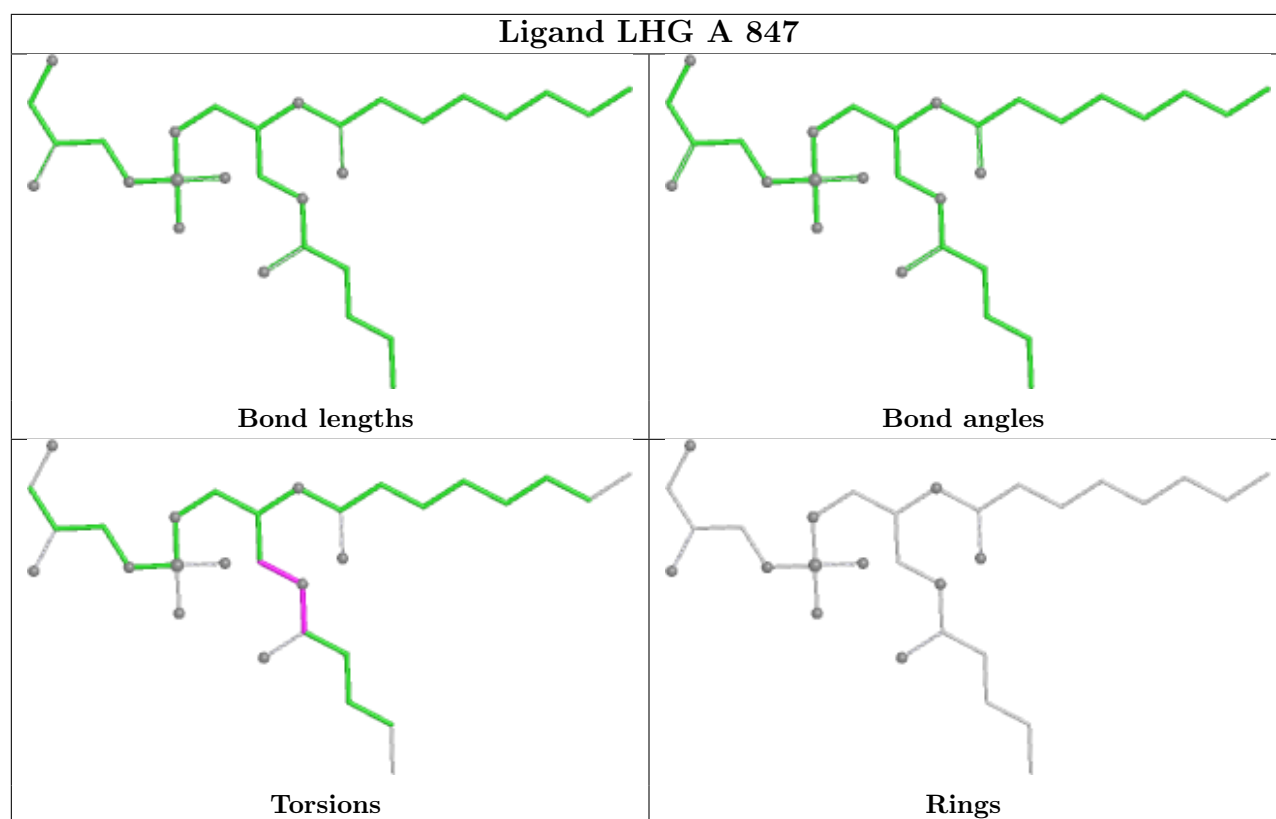
Torsions



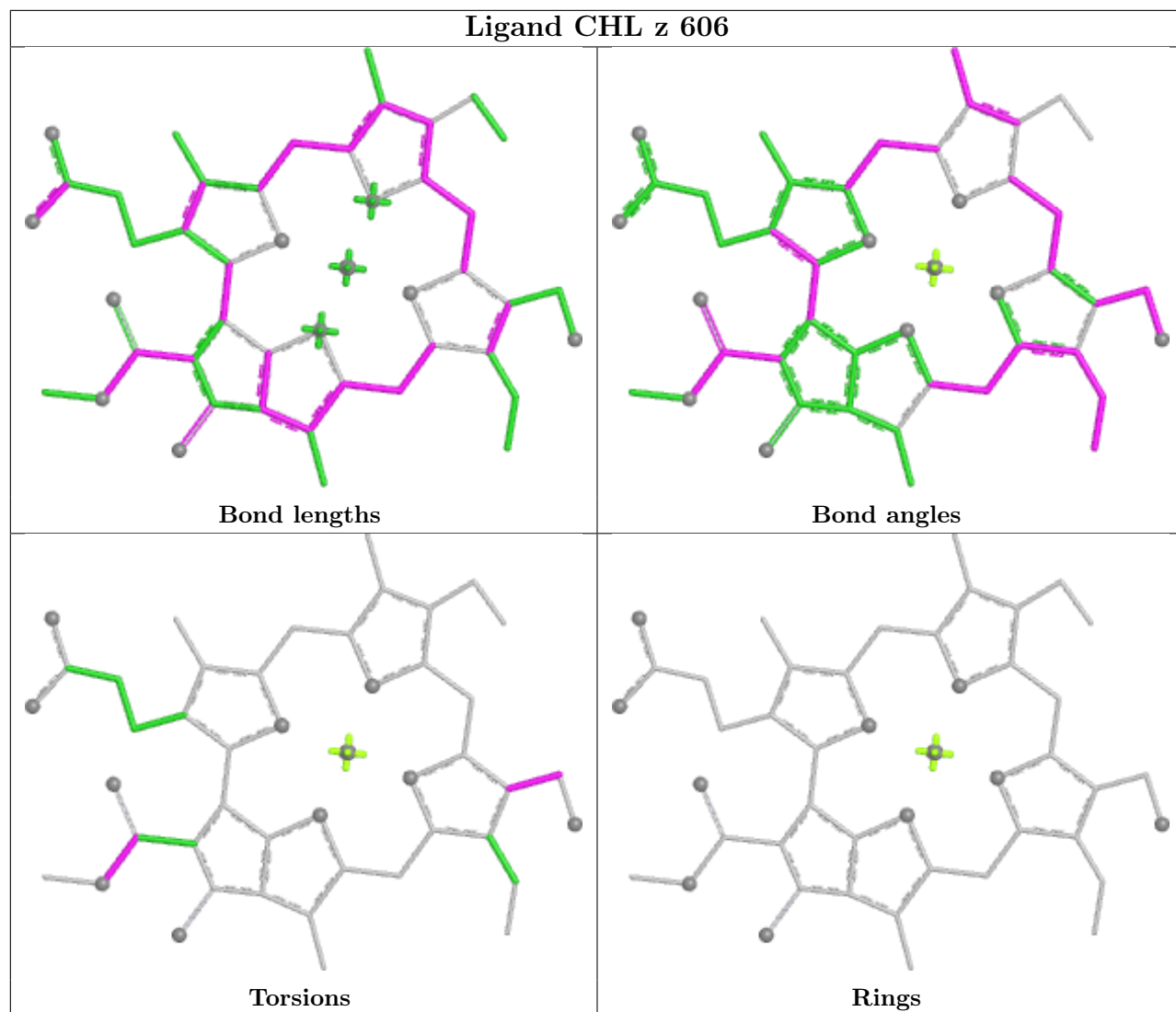
Rings



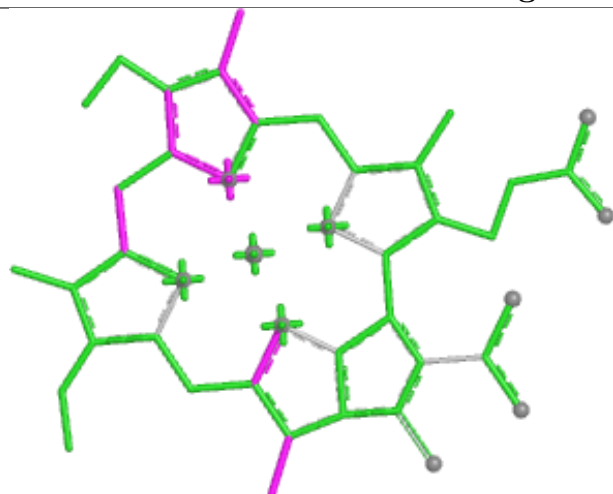




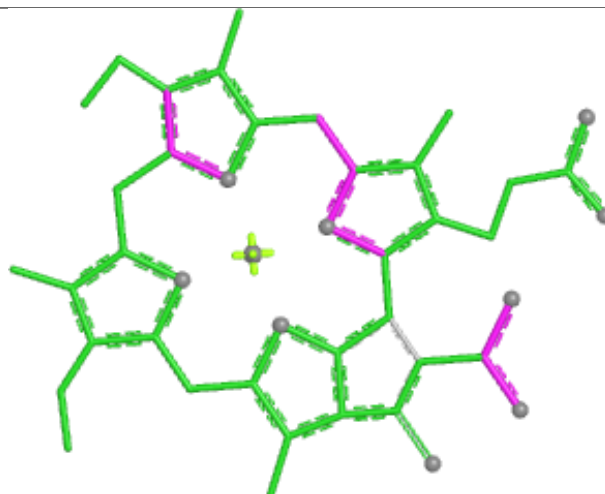
Ligand CHL z 606



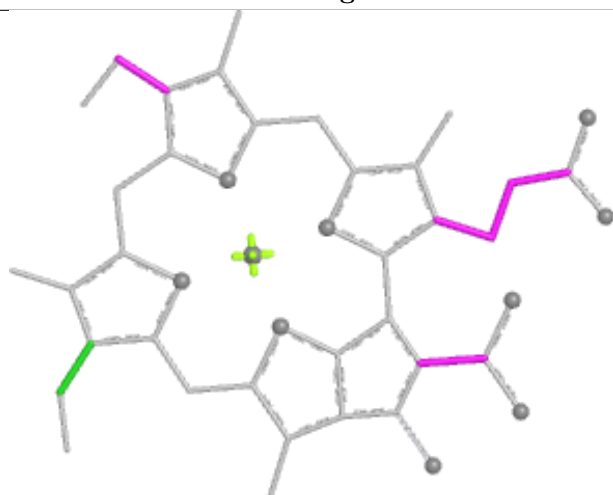
Ligand CLA 1 607



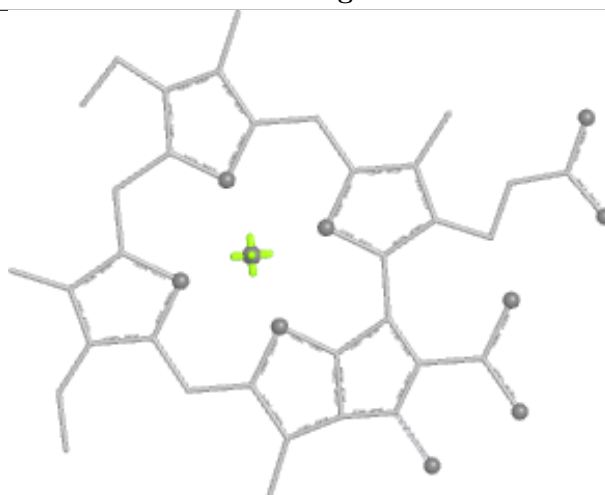
Bond lengths



Bond angles

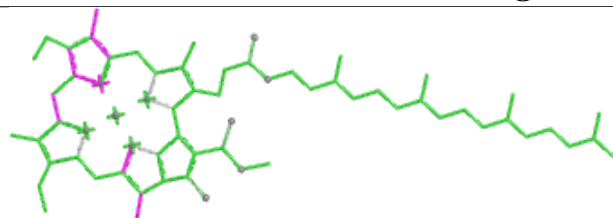


Torsions

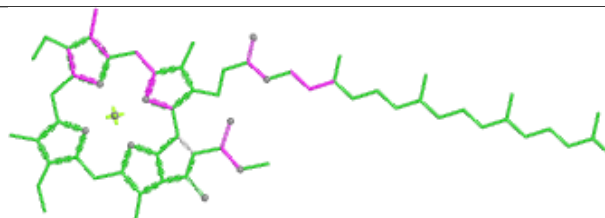


Rings

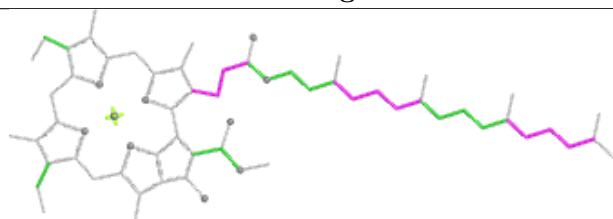
Ligand CLA B 809



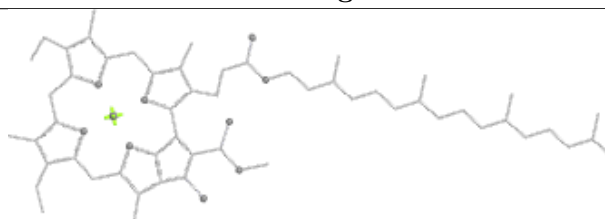
Bond lengths



Bond angles

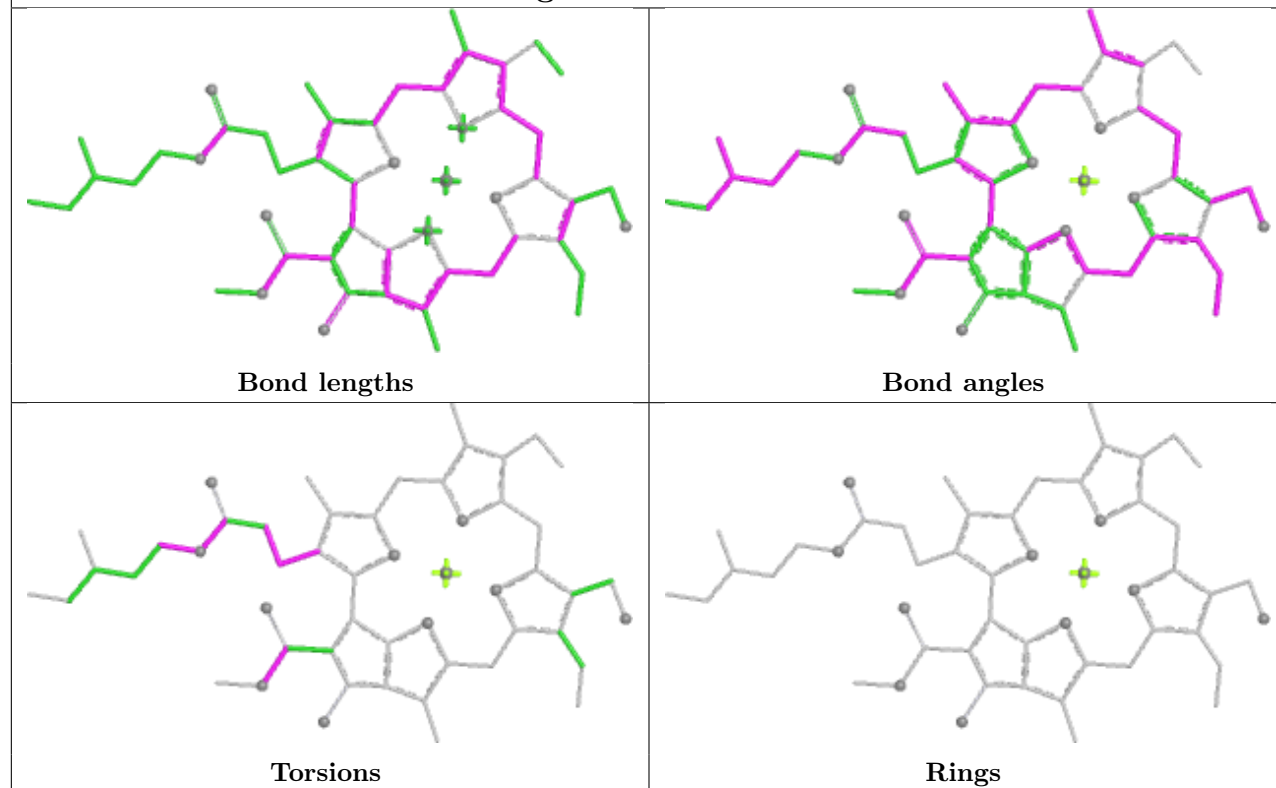


Torsions

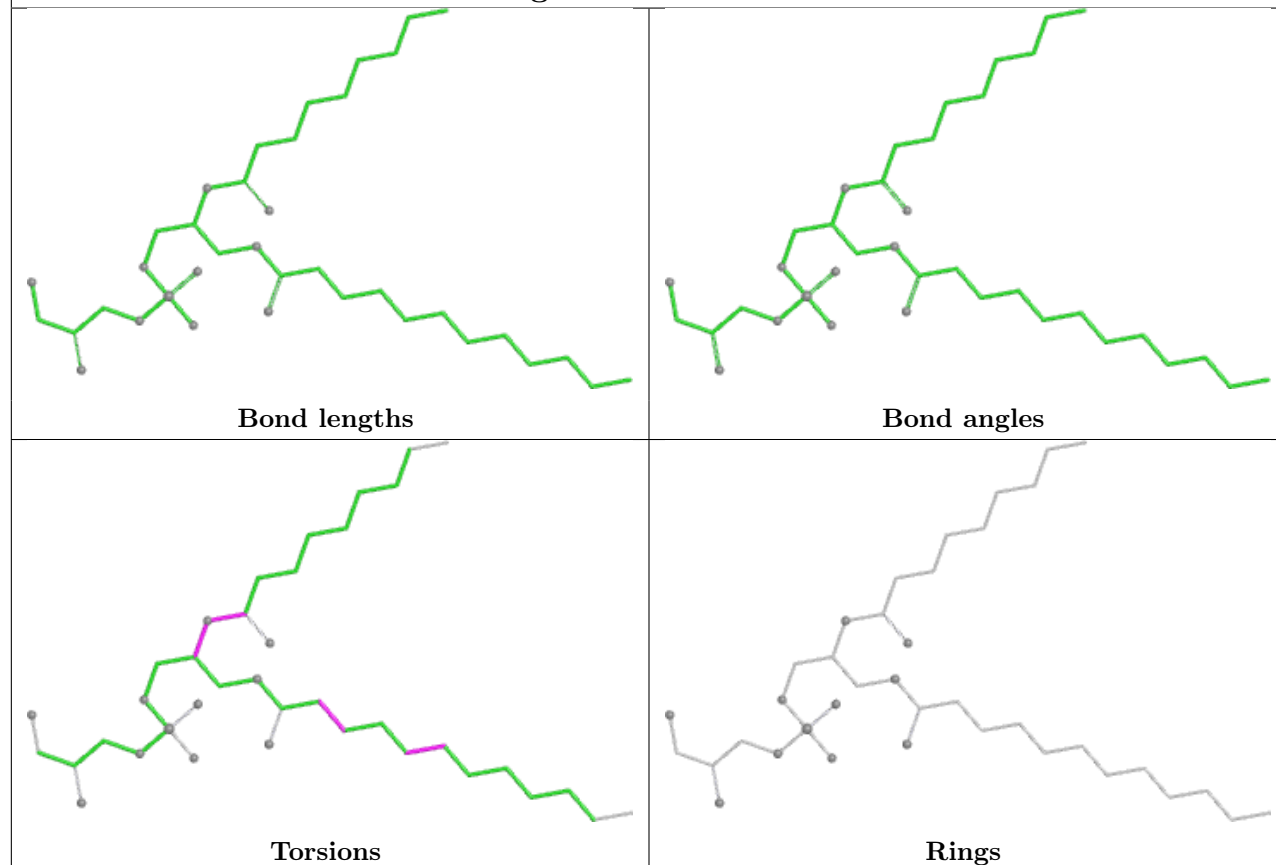


Rings

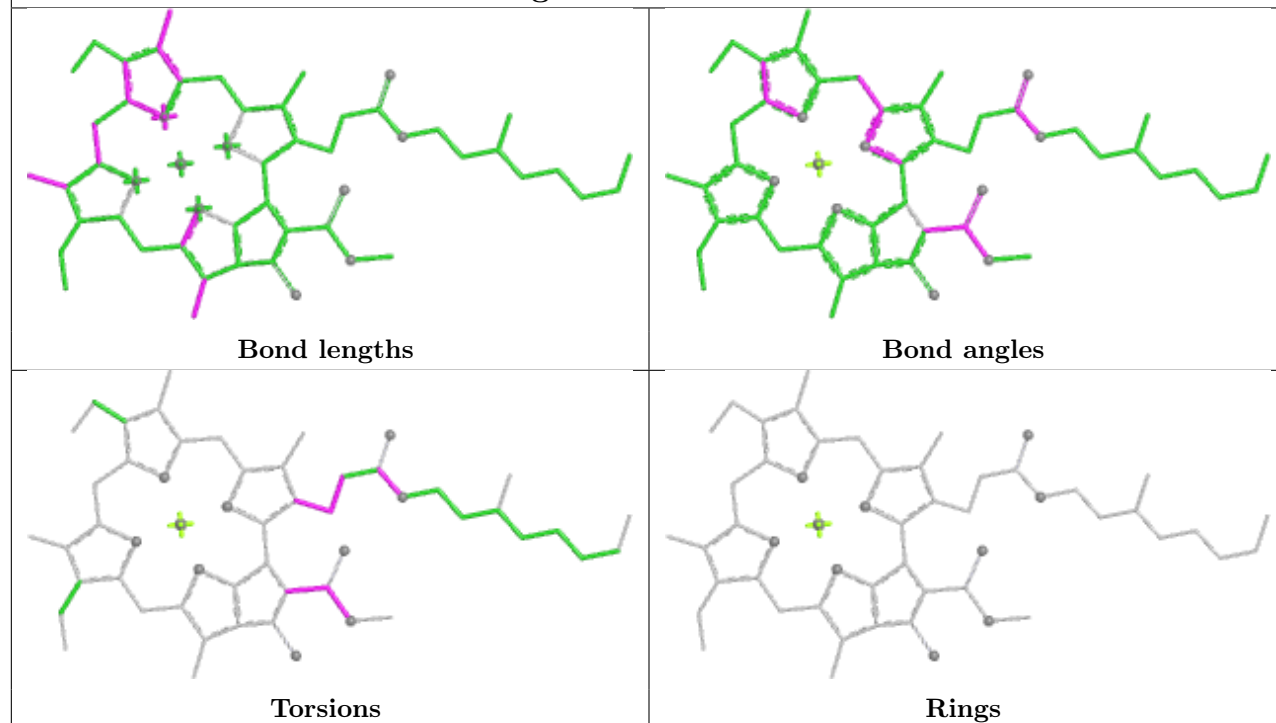
Ligand CHL z 607



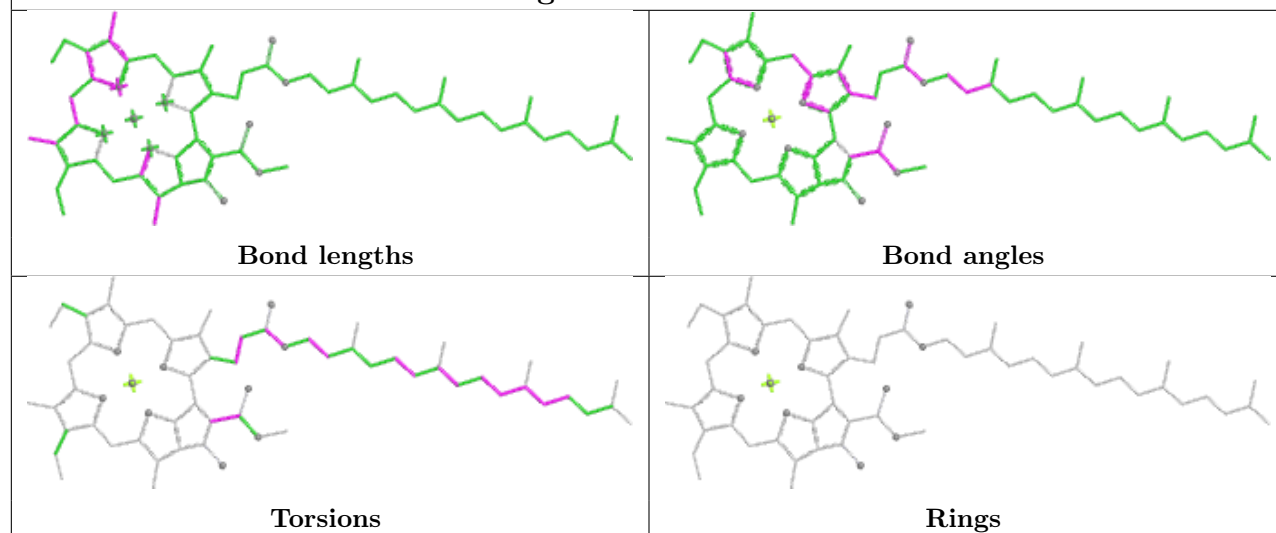
Ligand LHG B 851



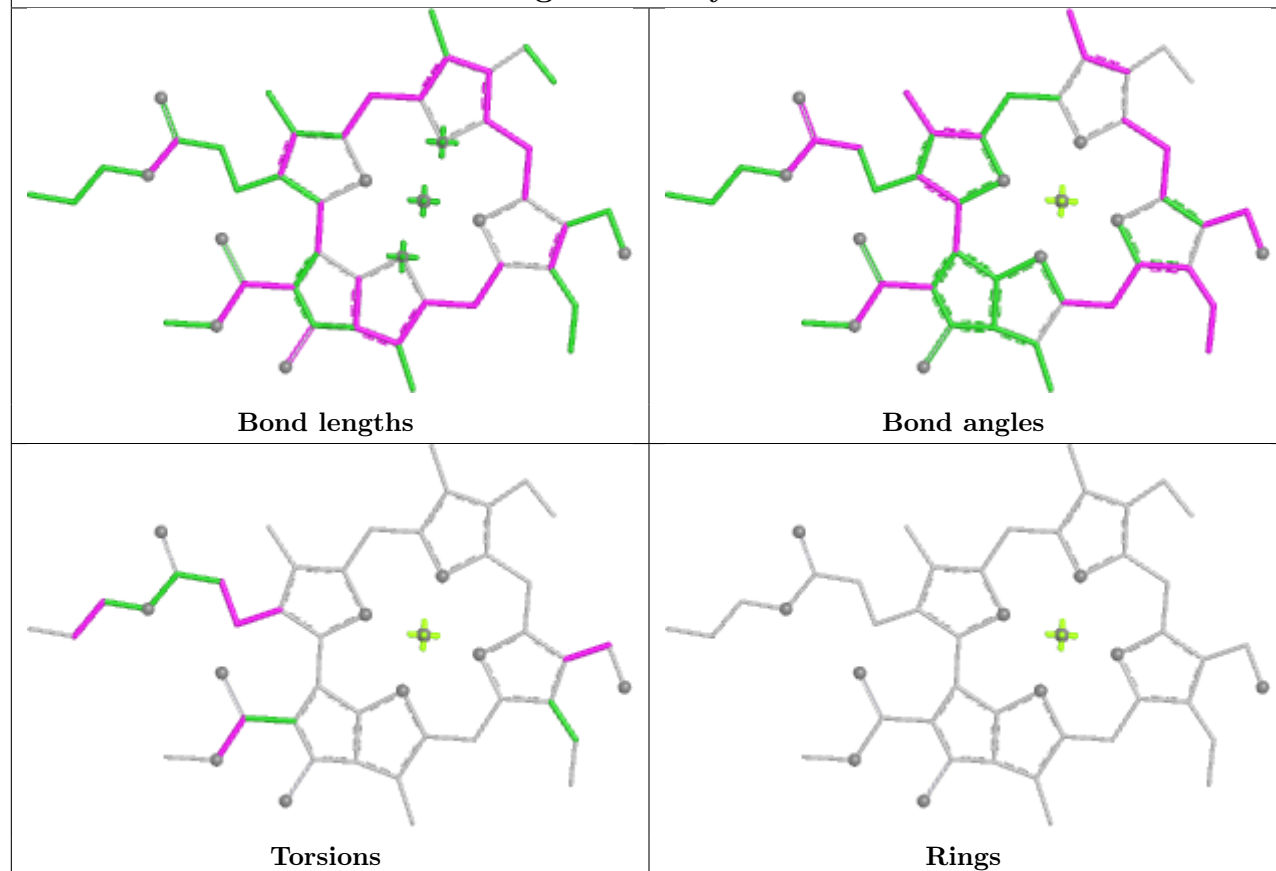
Ligand CLA A 813



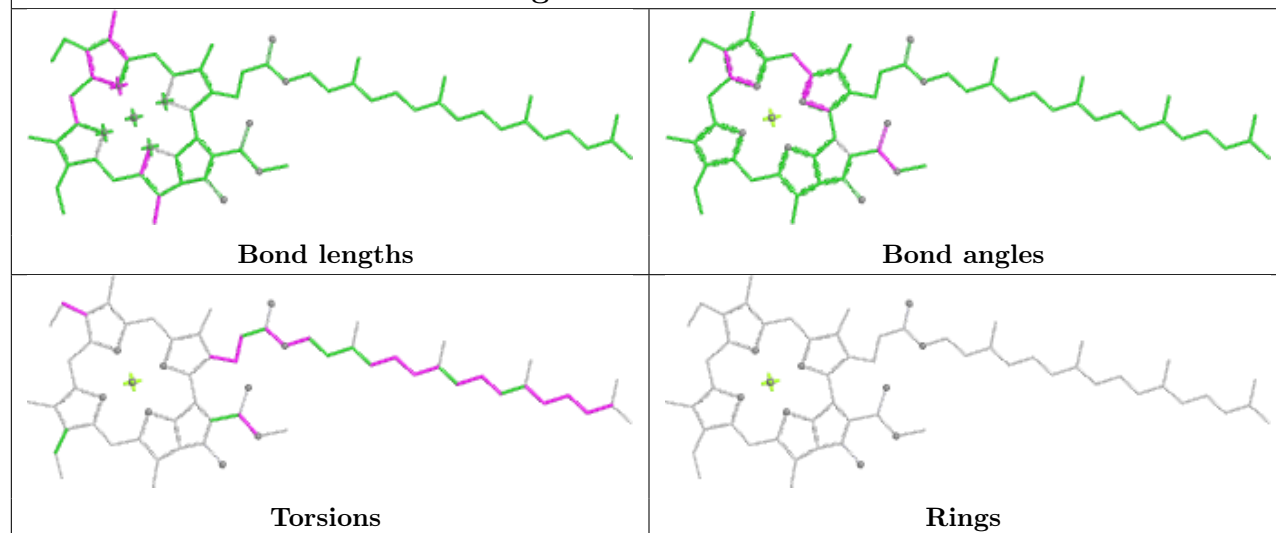
Ligand CLA z 602



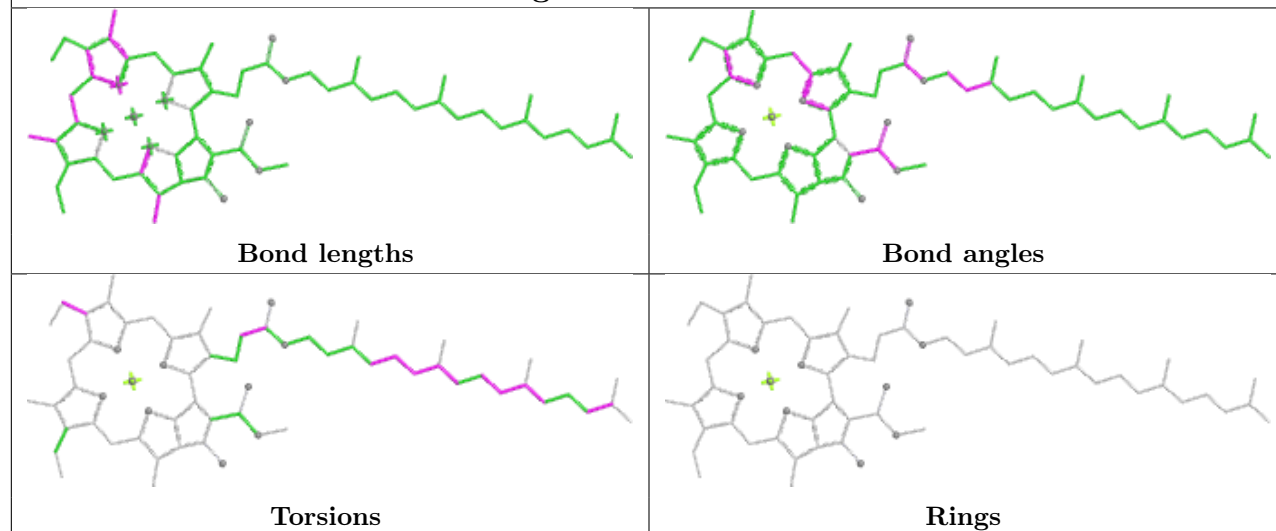
Ligand CHL y 608



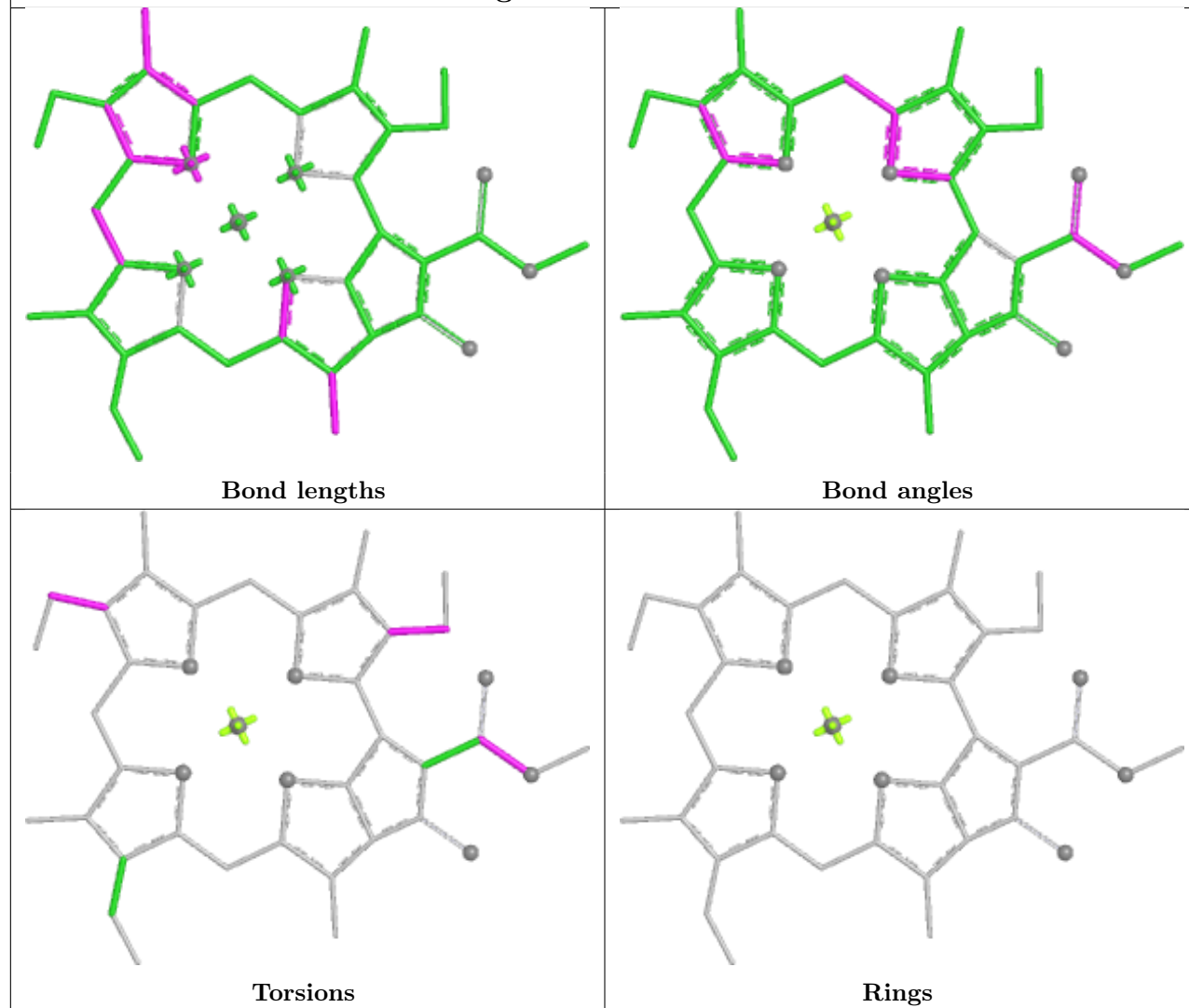
Ligand CLA A 812



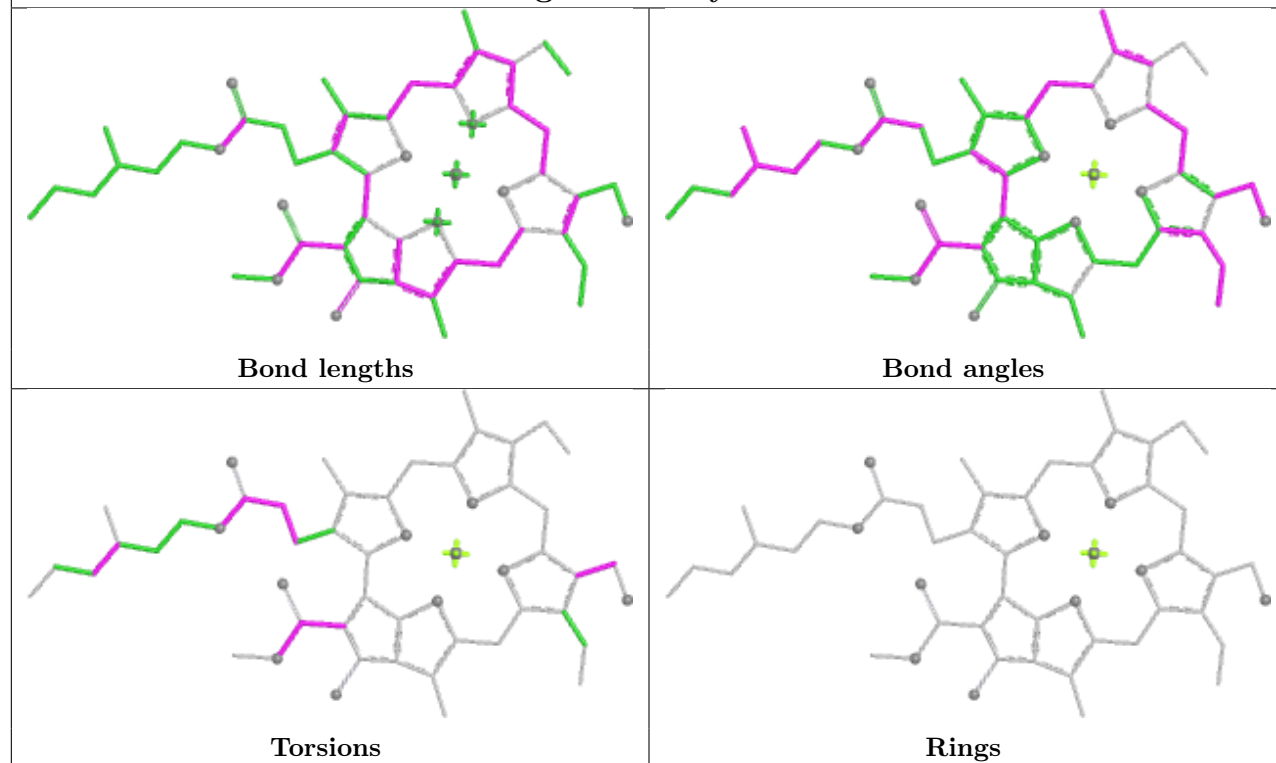
Ligand CLA B 806



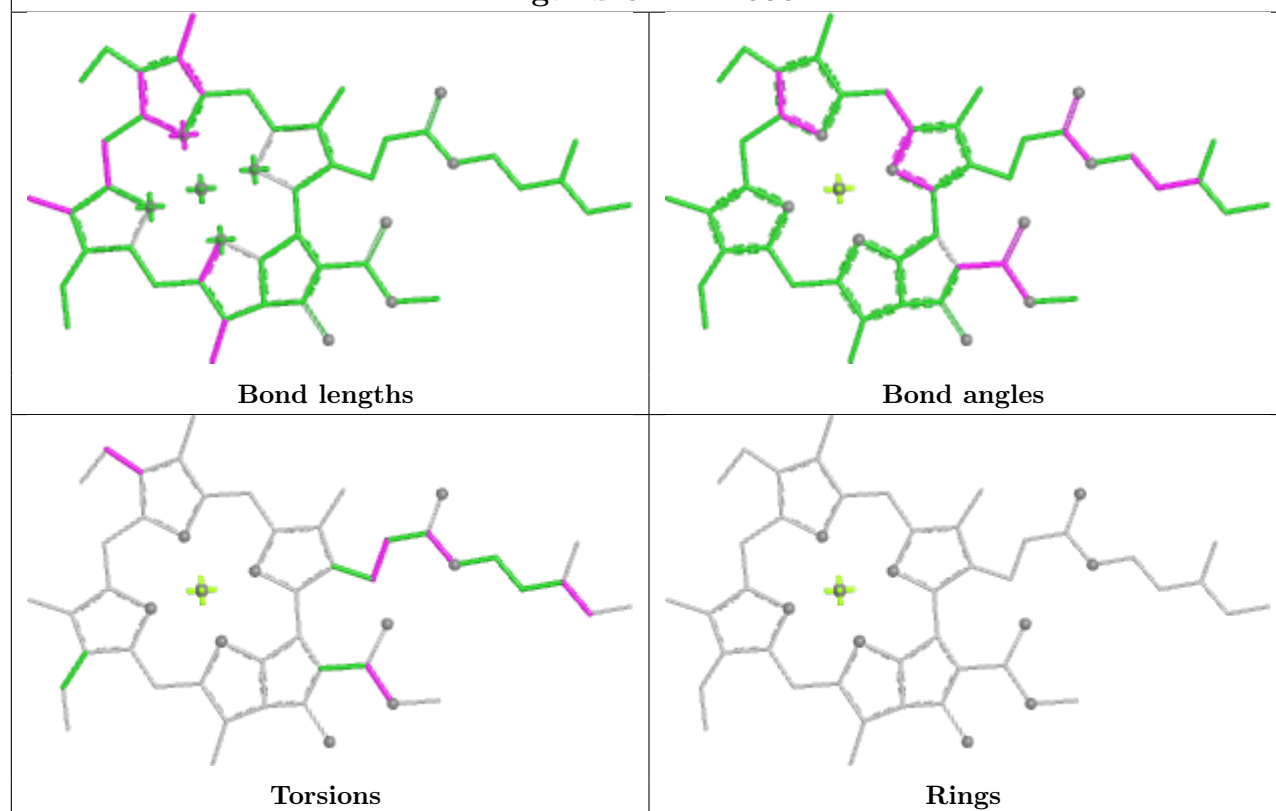
Ligand CLA B 835

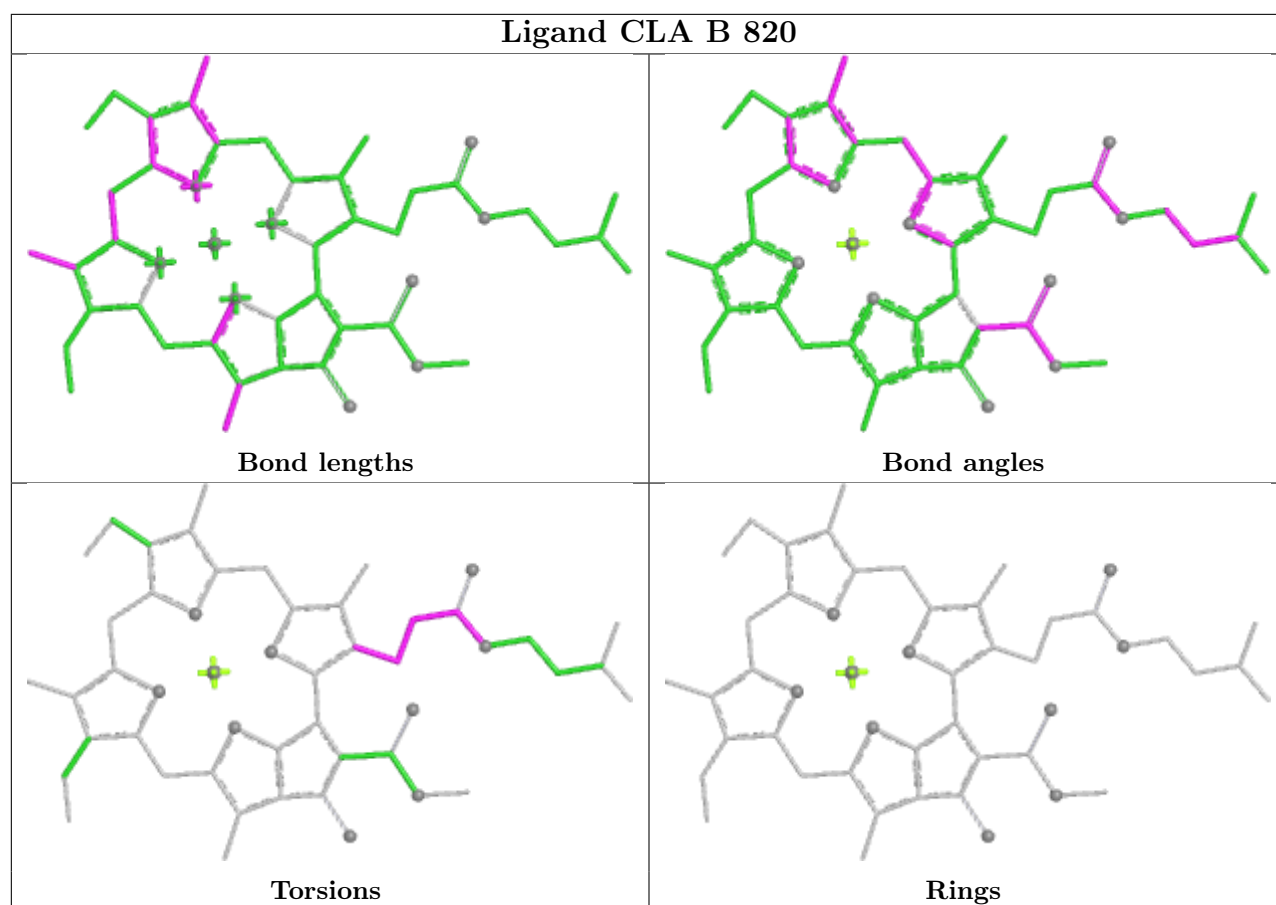


Ligand CHL y 601

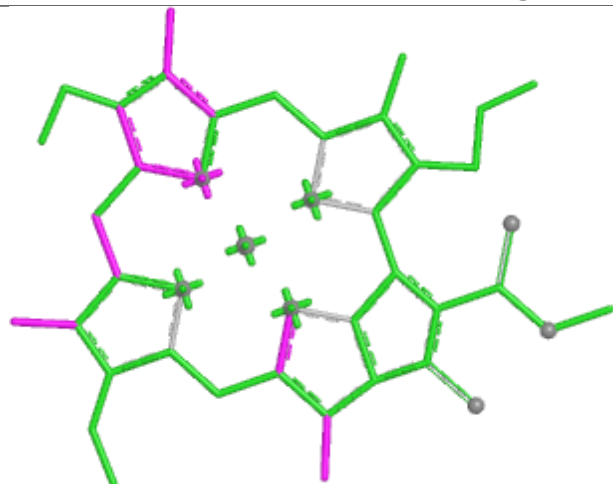


Ligand CLA A 838

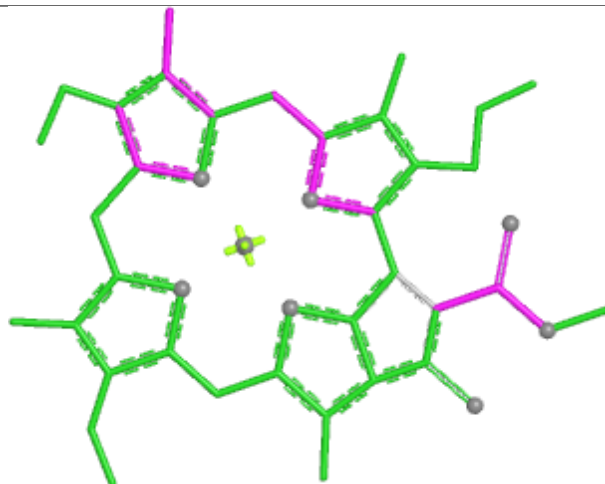




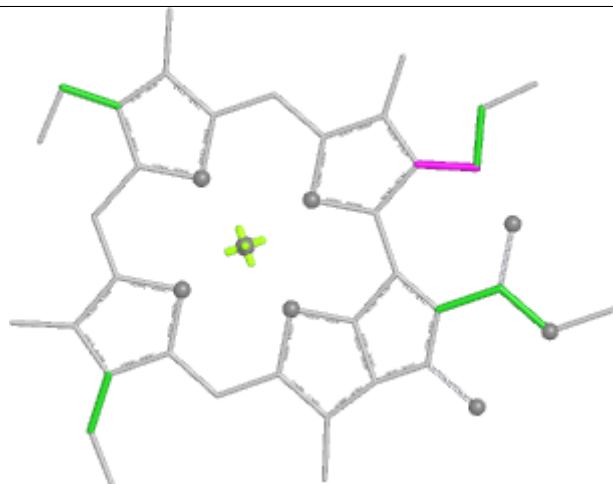
Ligand CLA B 815



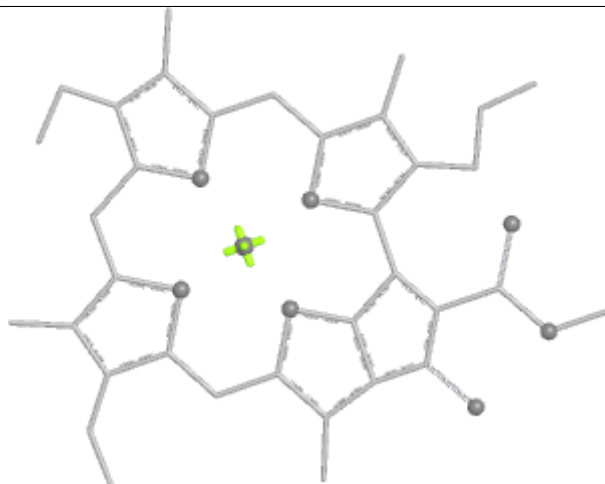
Bond lengths



Bond angles

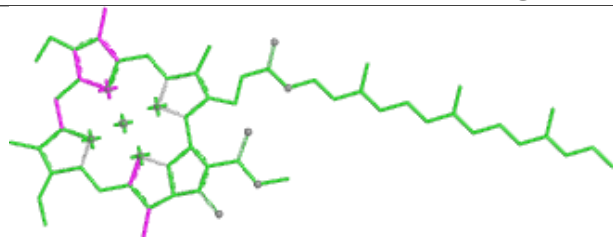


Torsions

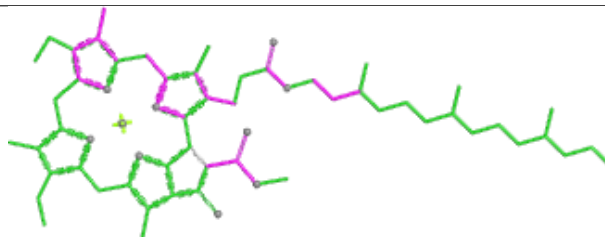


Rings

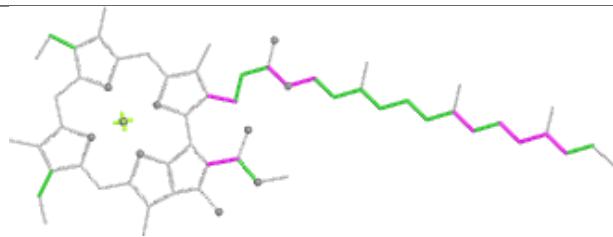
Ligand CLA B 825



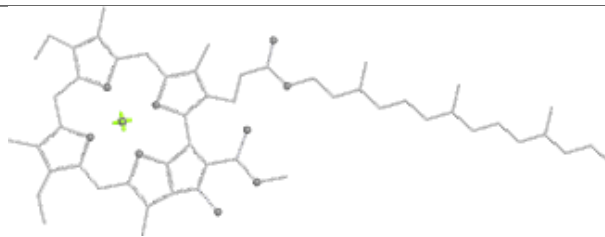
Bond lengths



Bond angles

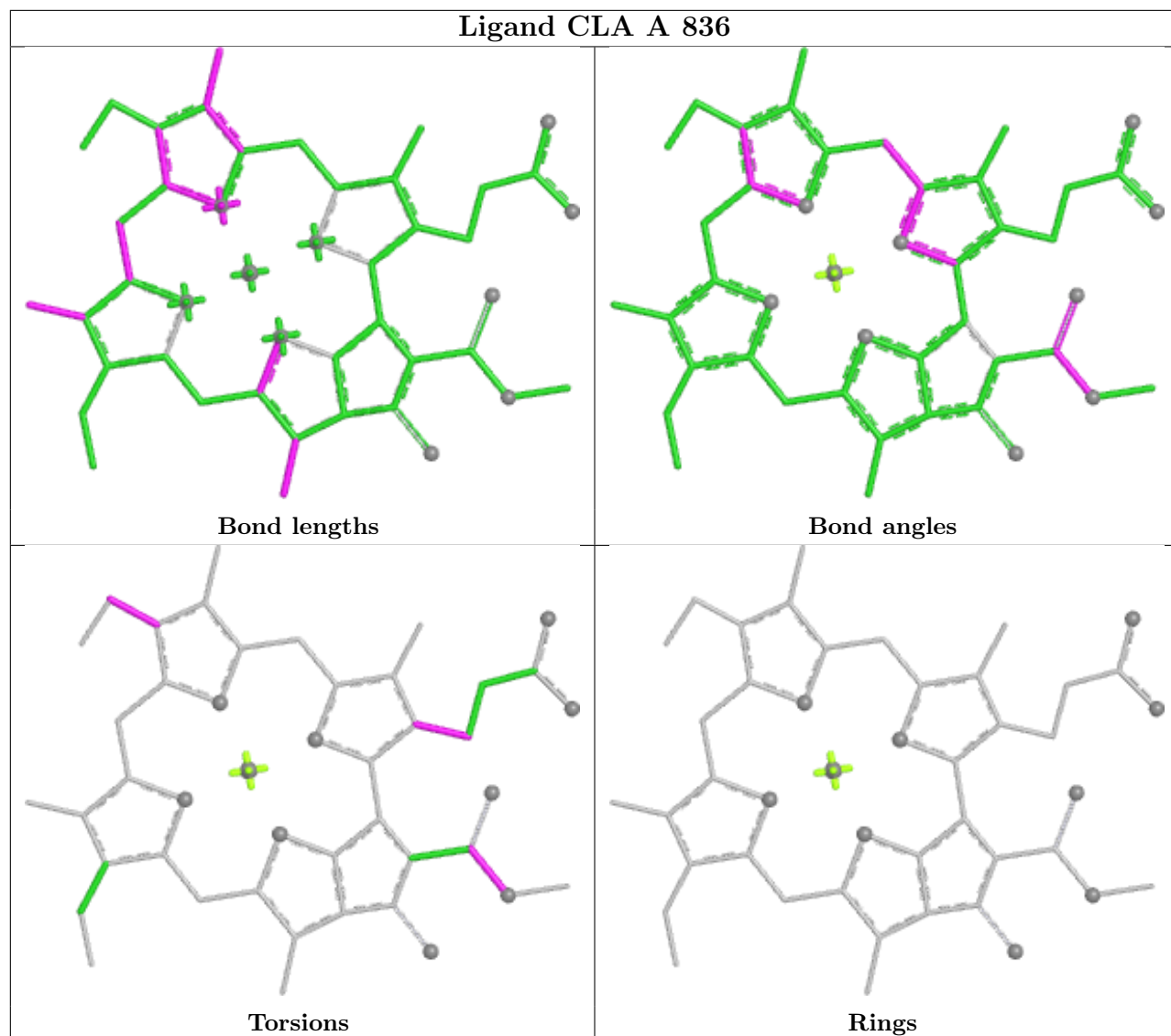


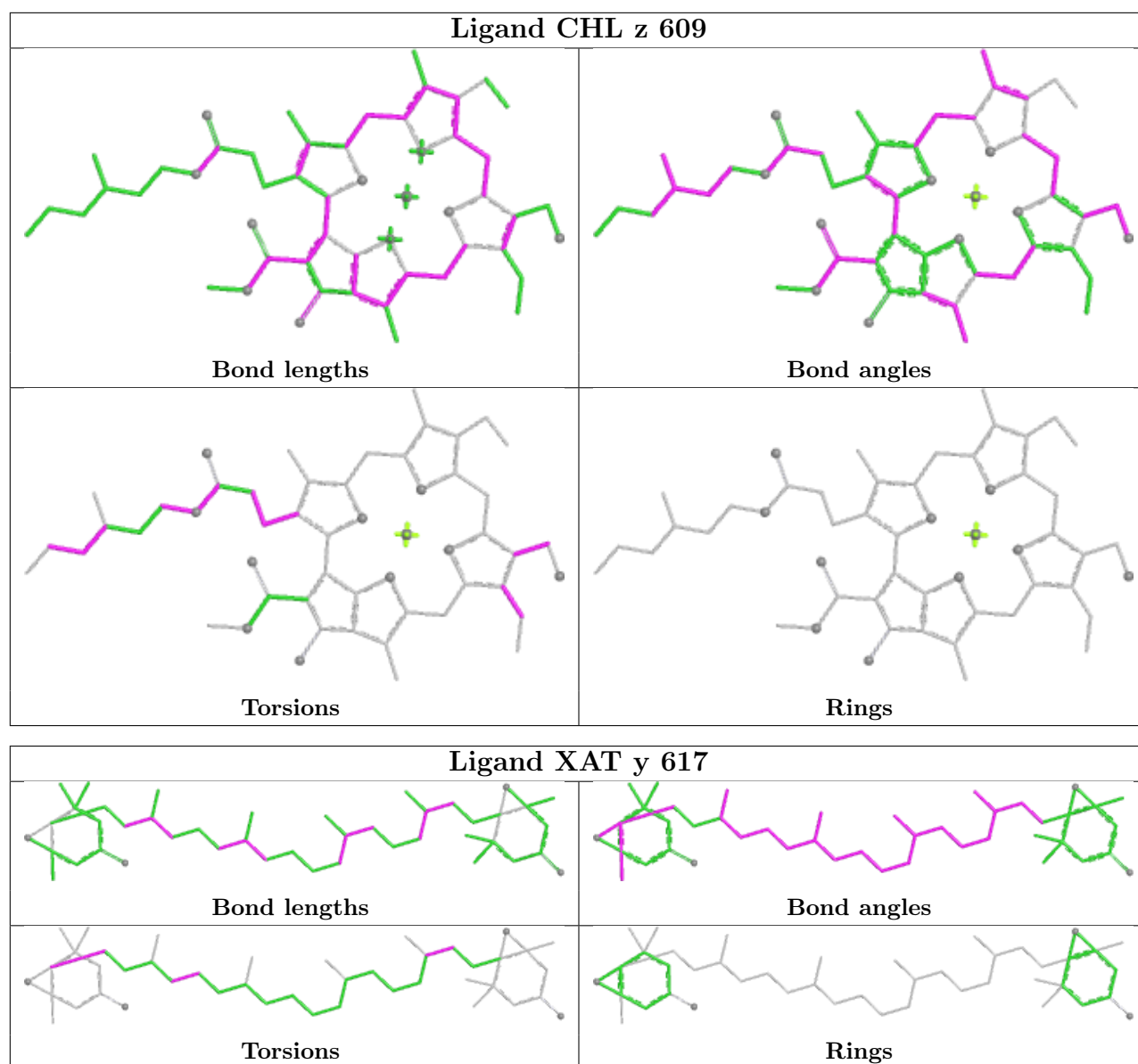
Torsions



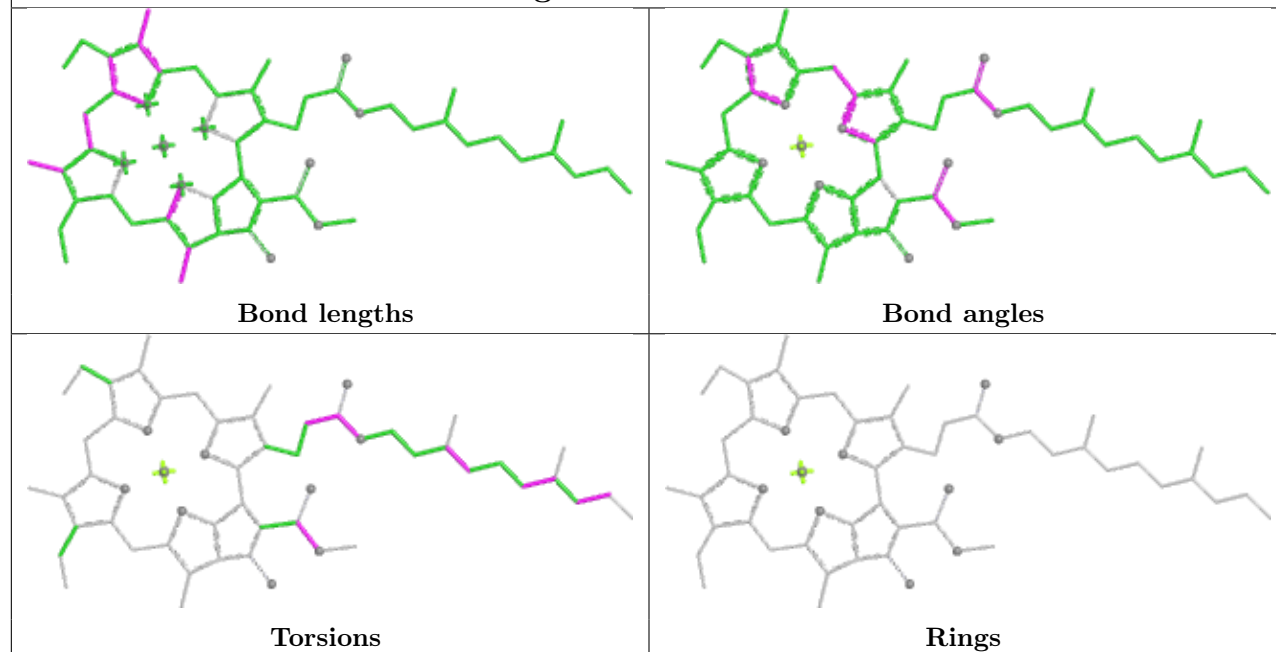
Rings

Ligand CLA A 836

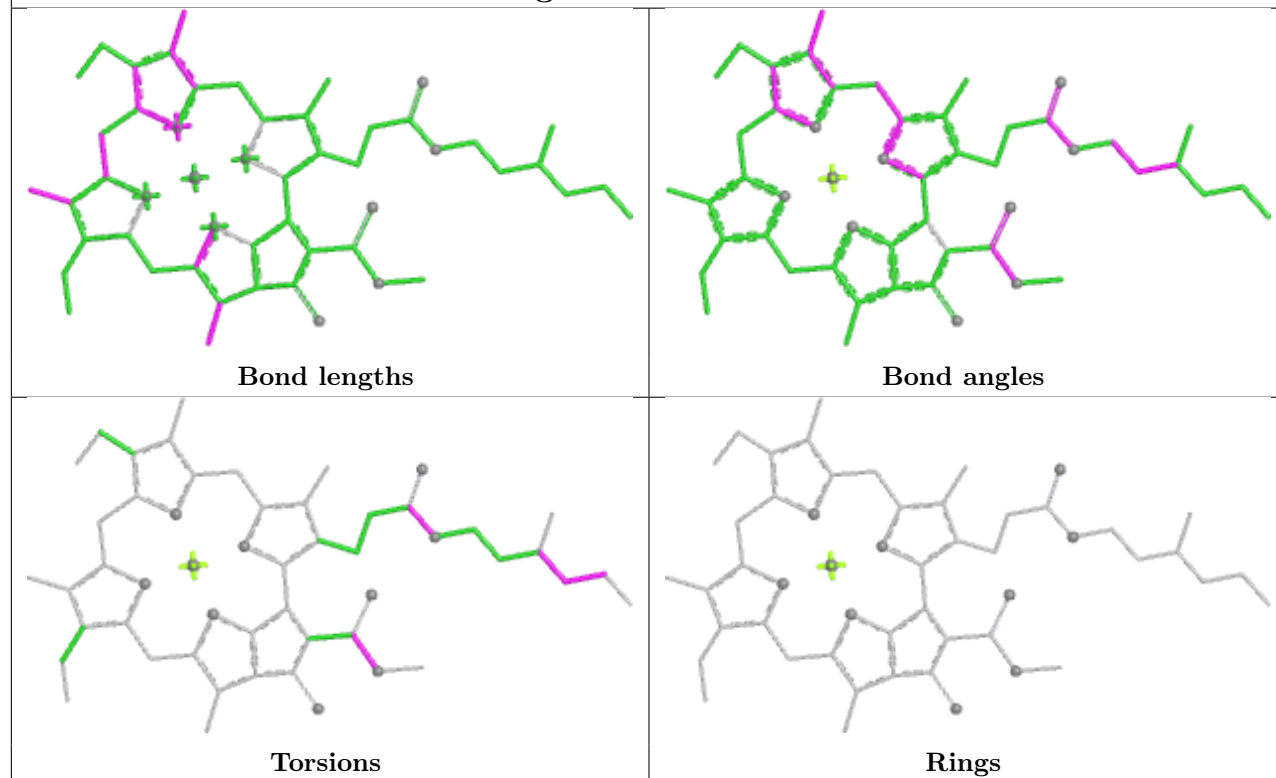


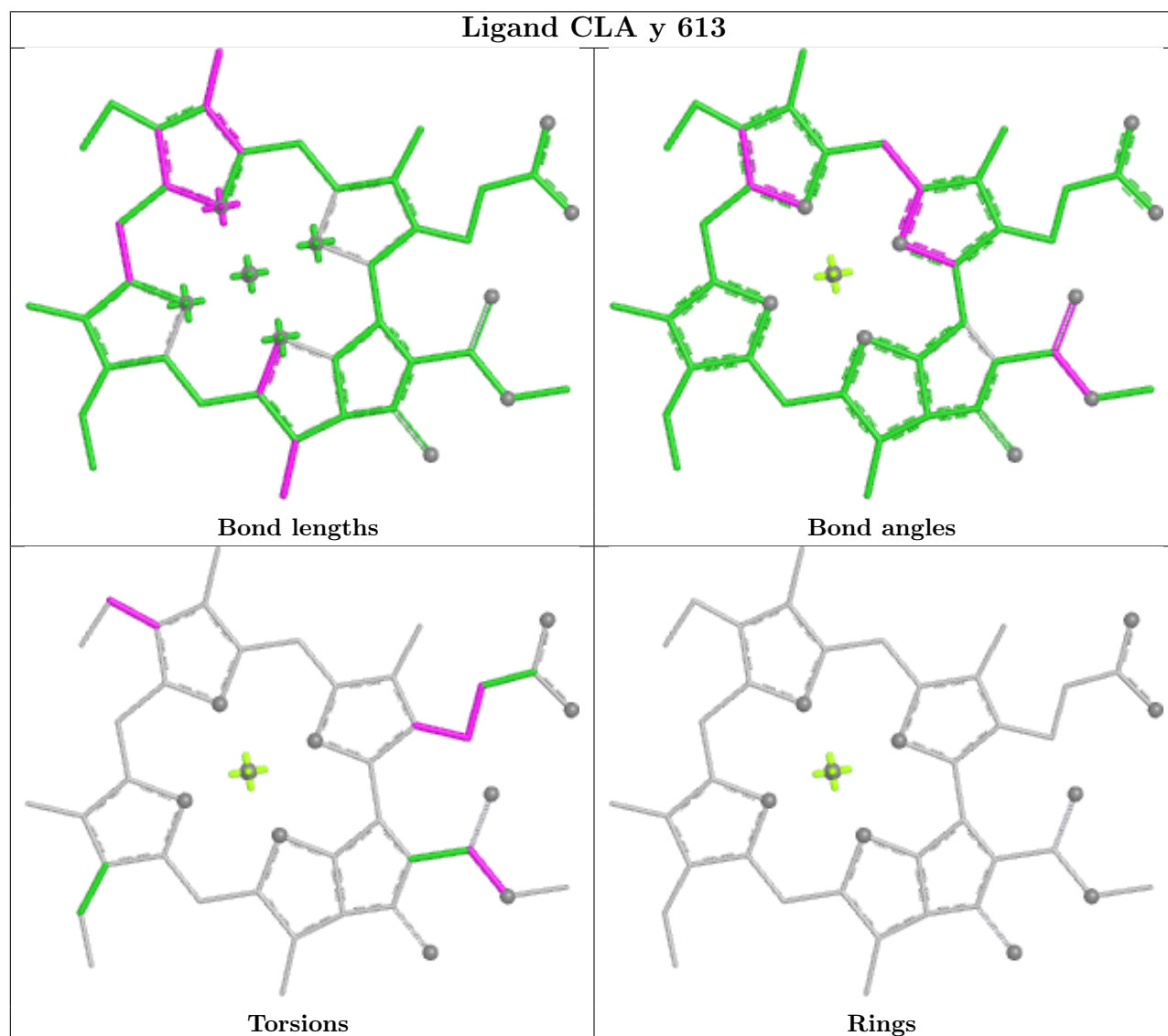
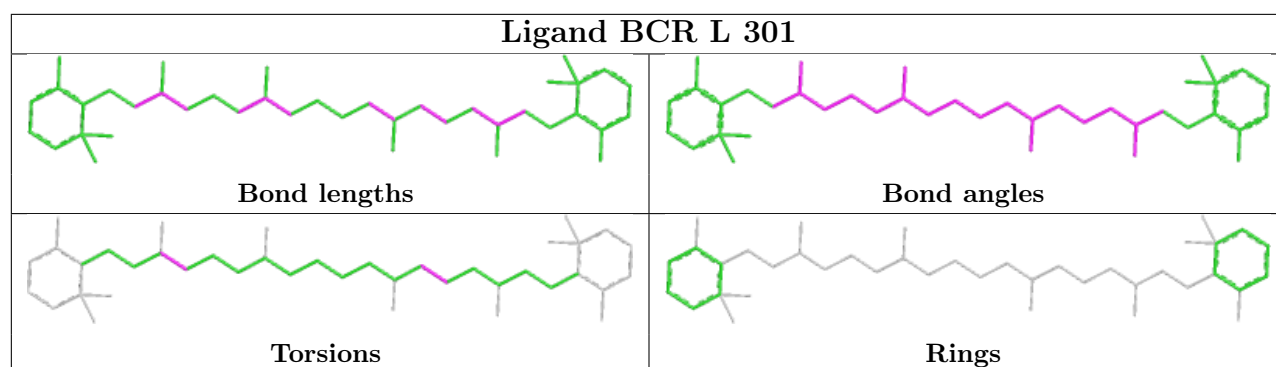


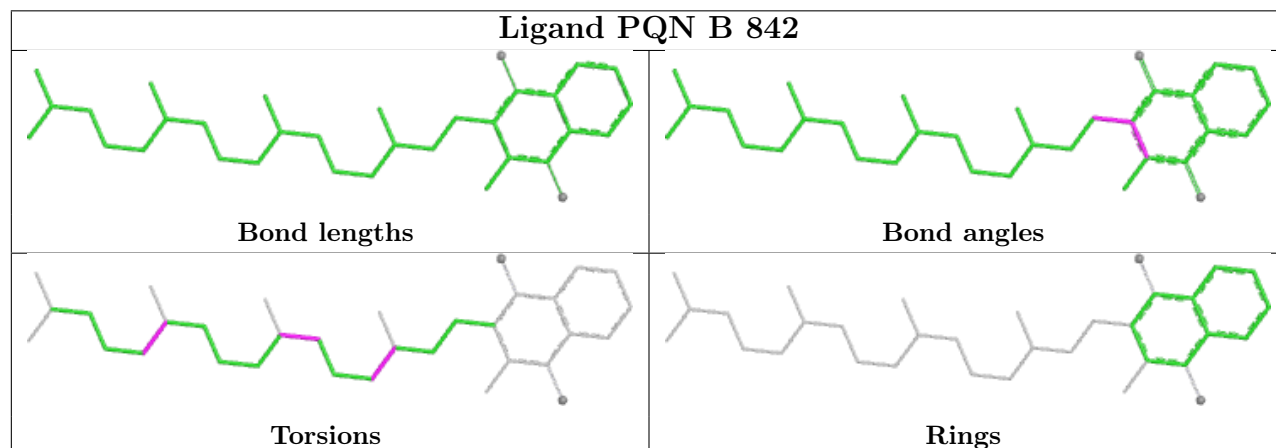
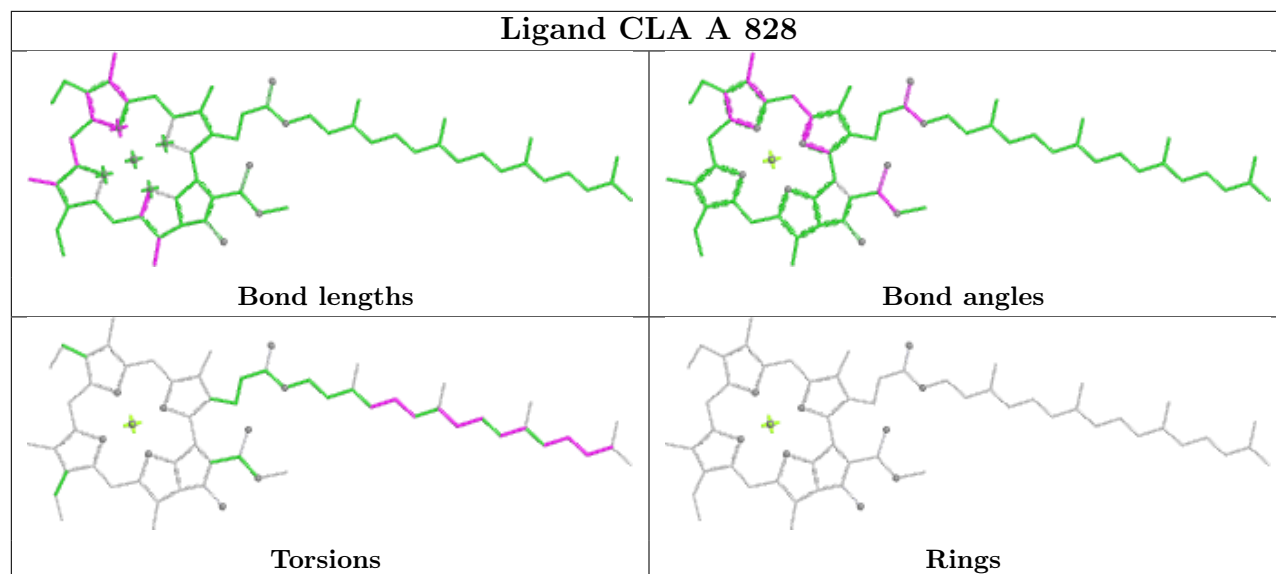
Ligand CLA F 301



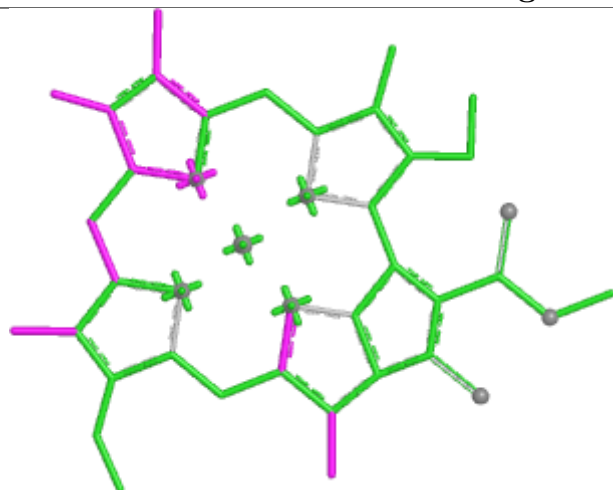
Ligand CLA x 604







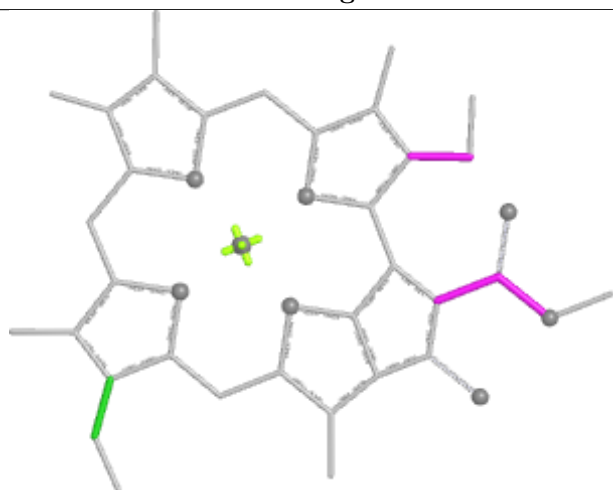
Ligand CLA 3 605



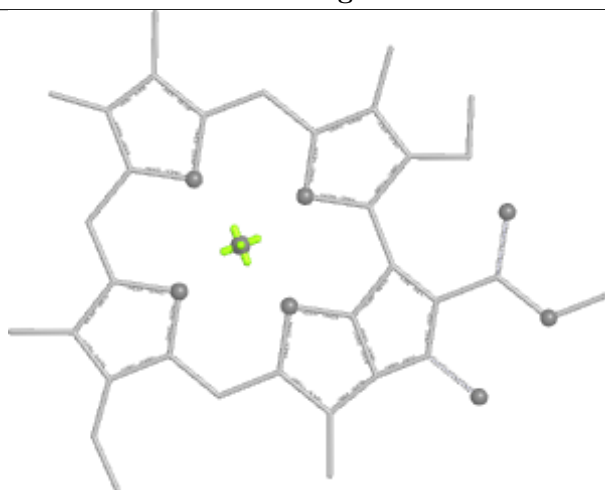
Bond lengths



Bond angles

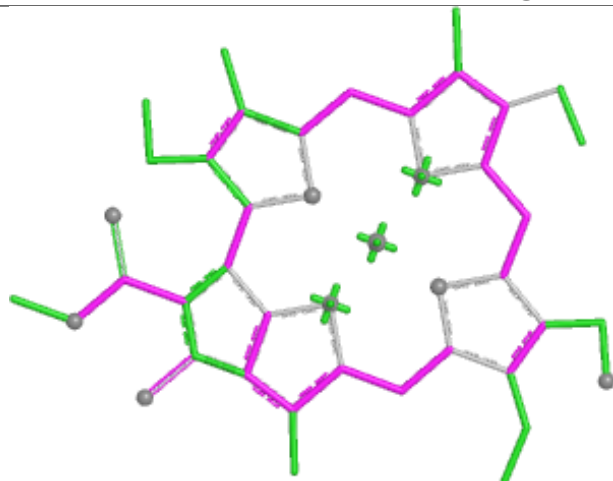


Torsions

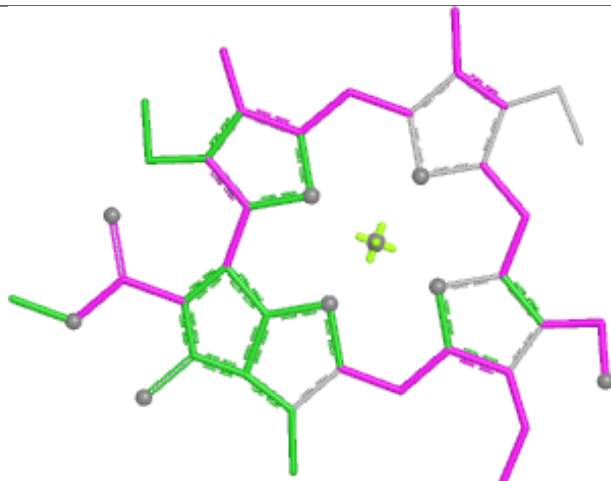


Rings

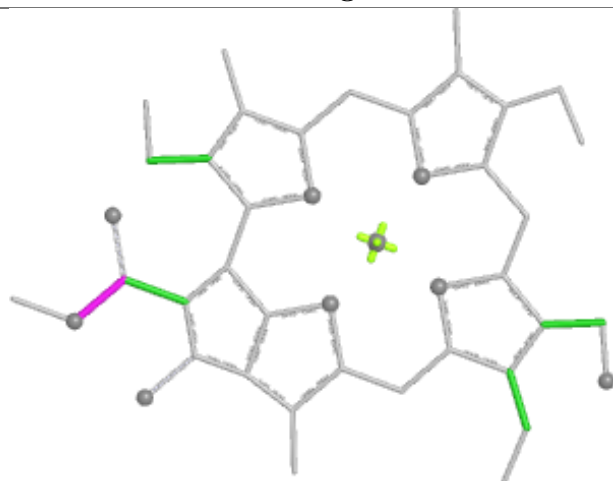
Ligand CHL 2 606



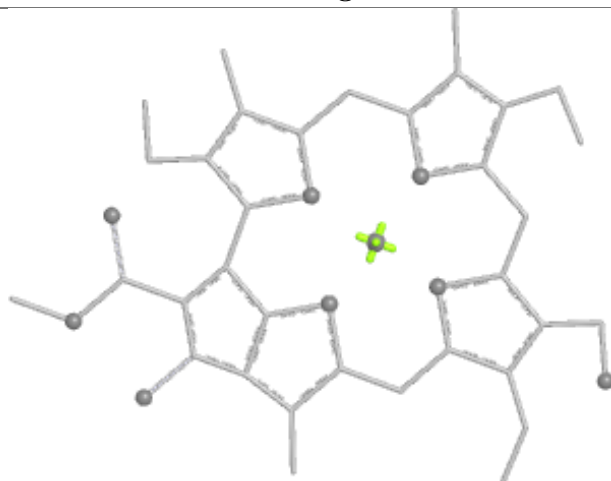
Bond lengths



Bond angles

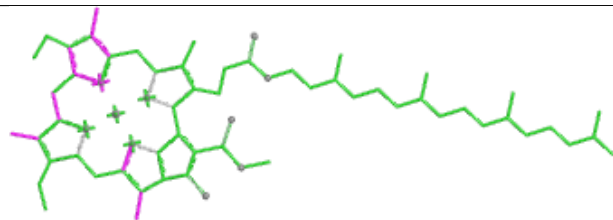


Torsions

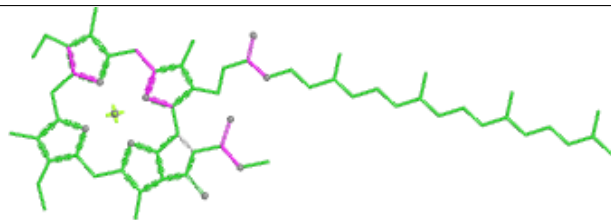


Rings

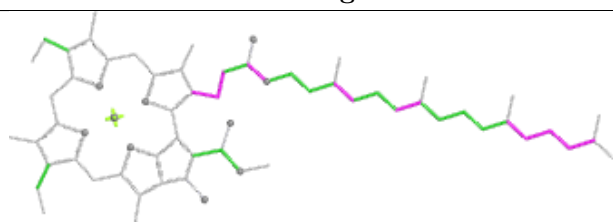
Ligand CLA B 828



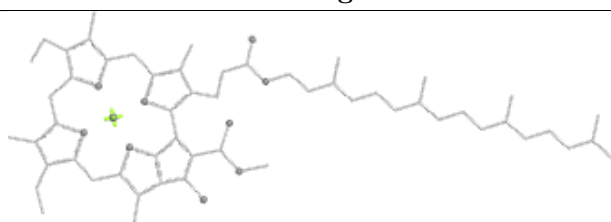
Bond lengths



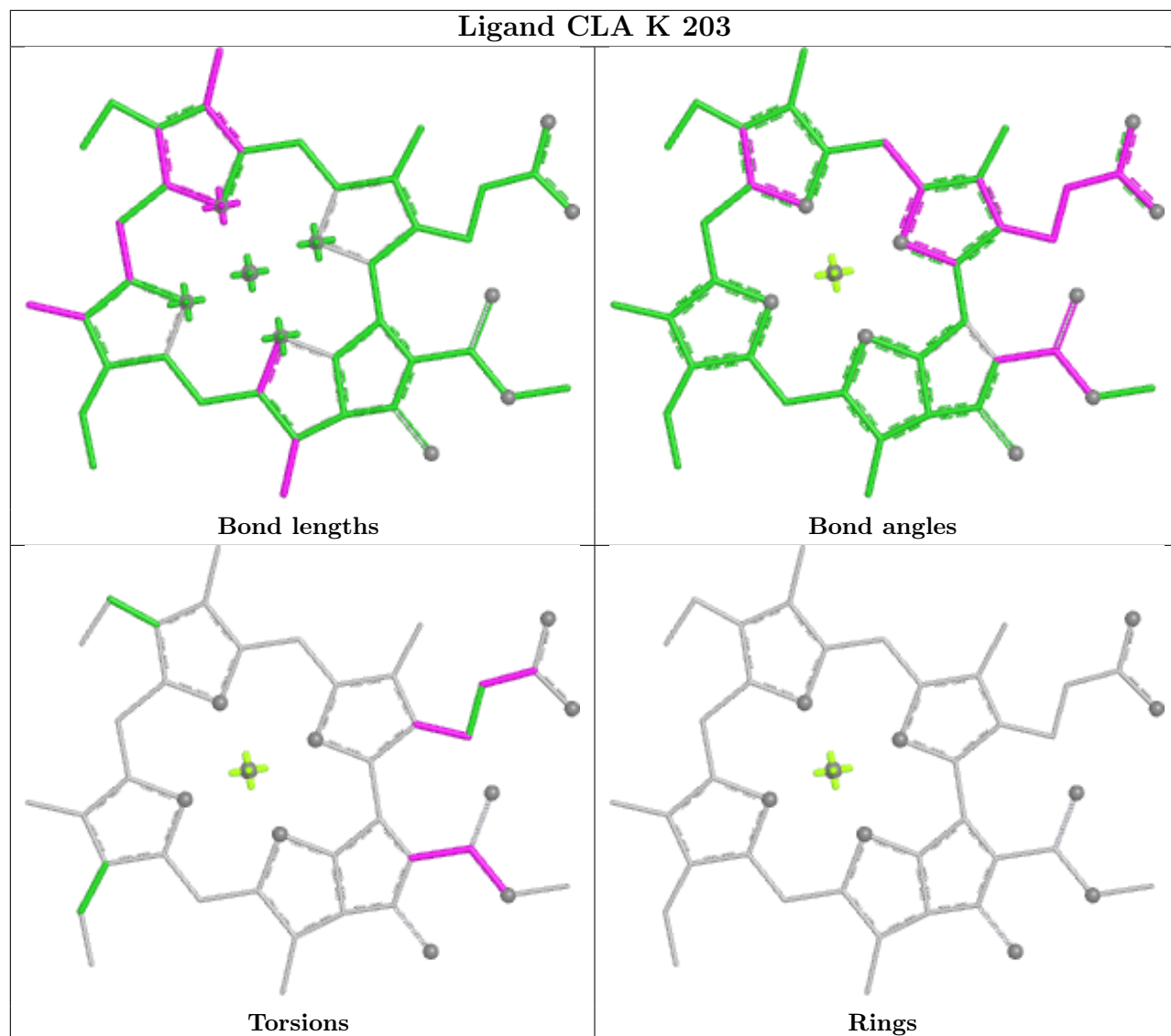
Bond angles



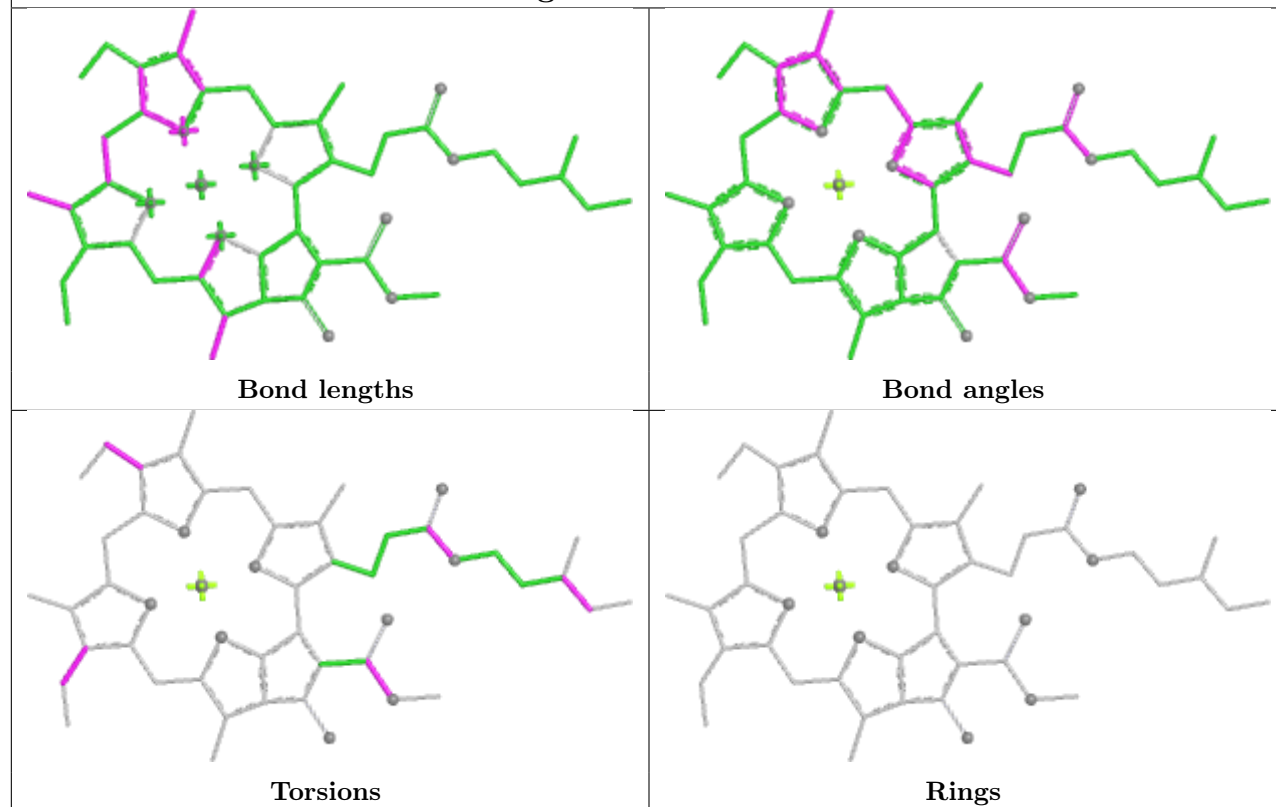
Torsions



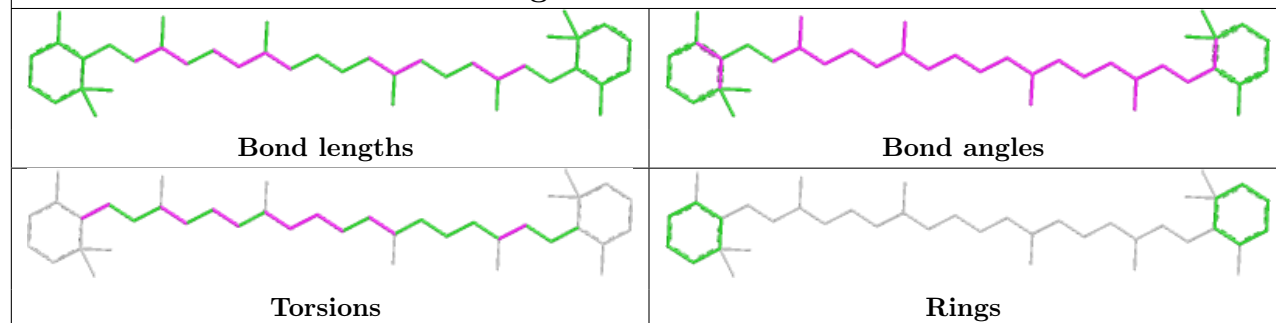
Rings

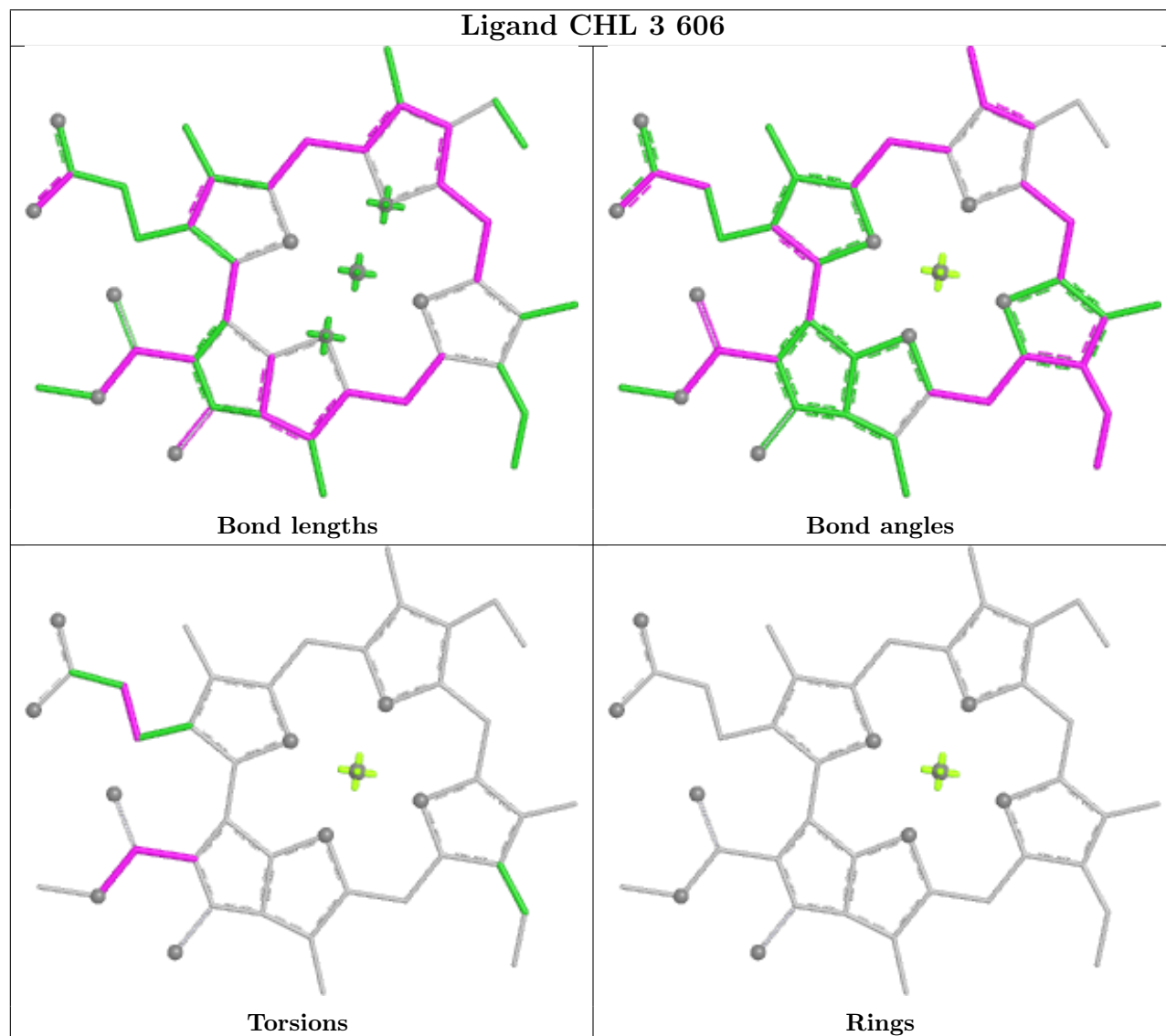
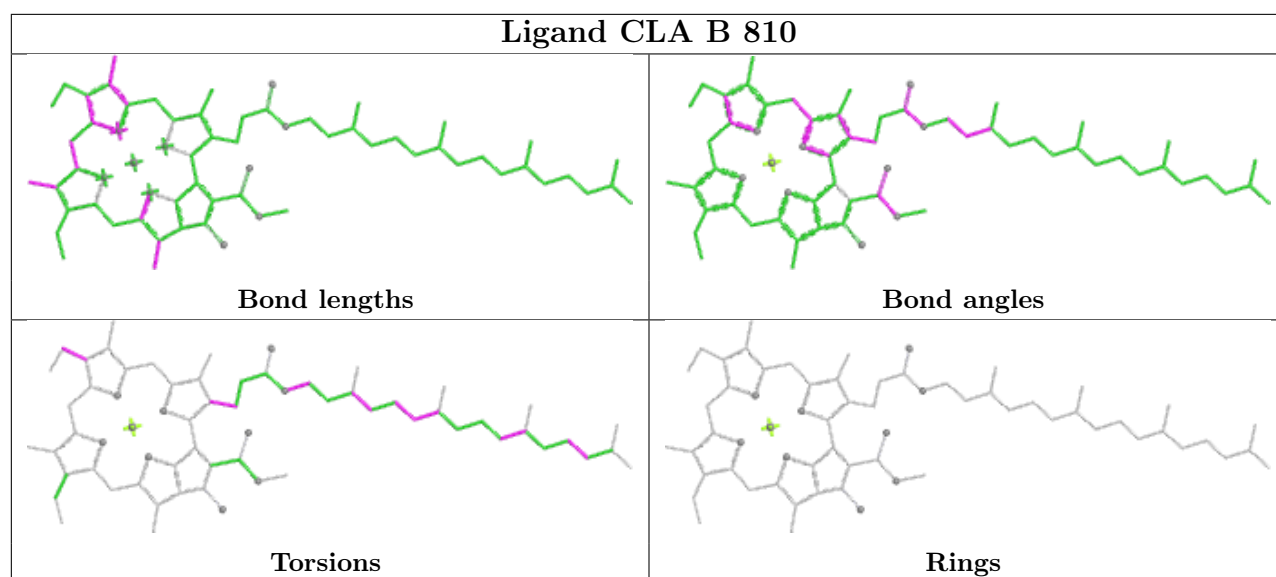


Ligand CLA z 604

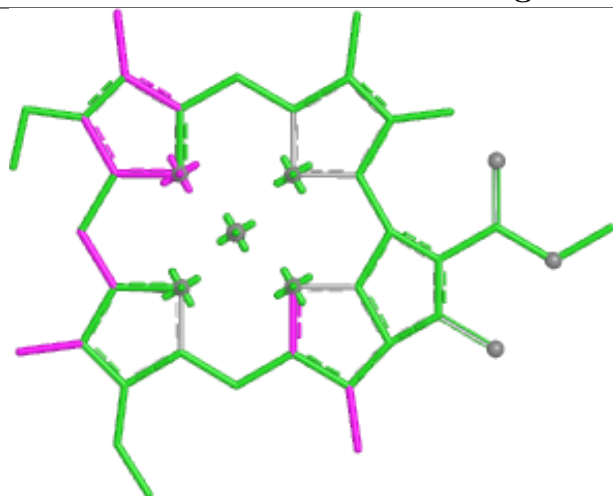


Ligand BCR A 852

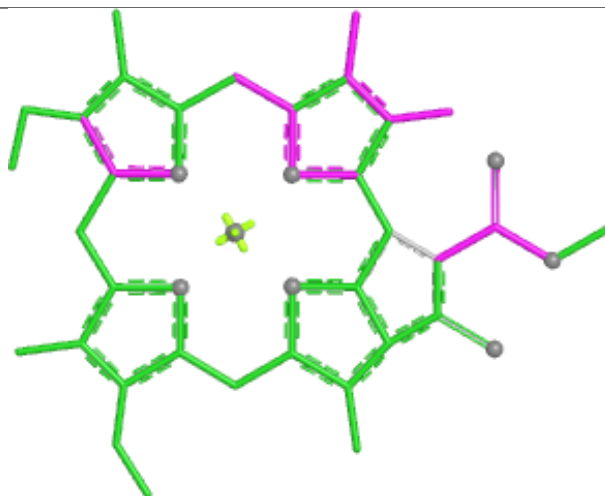




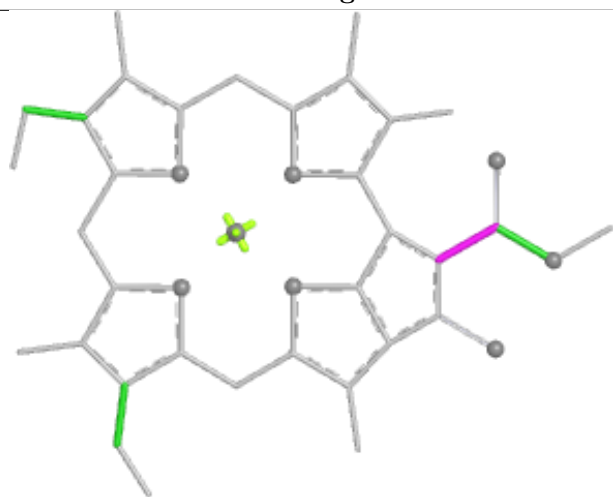
Ligand CLA B 804



Bond lengths



Bond angles

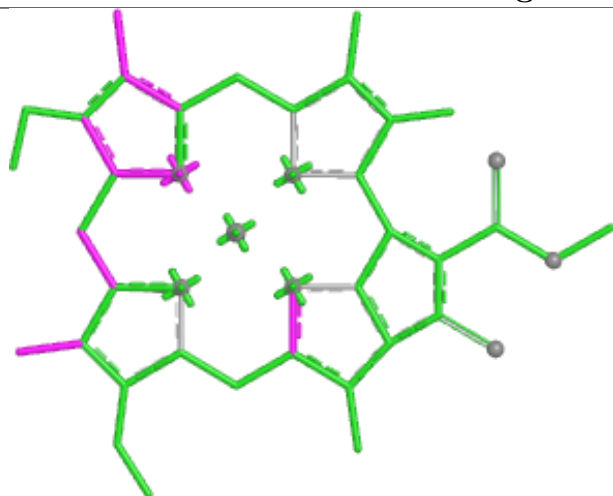


Torsions

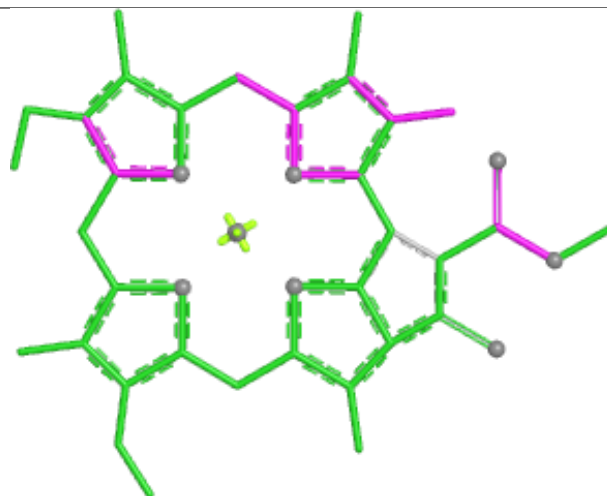


Rings

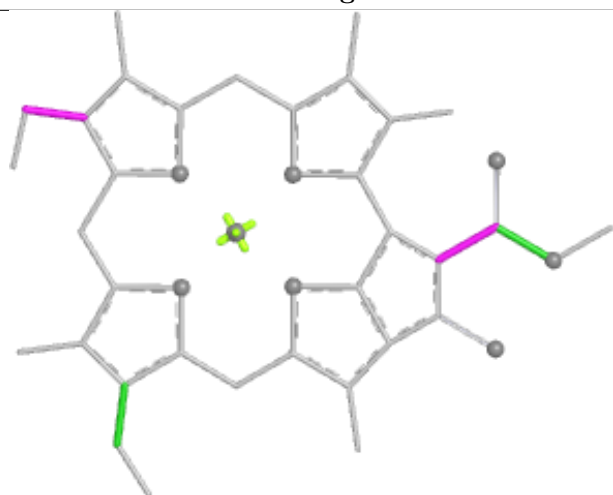
Ligand CLA F 303



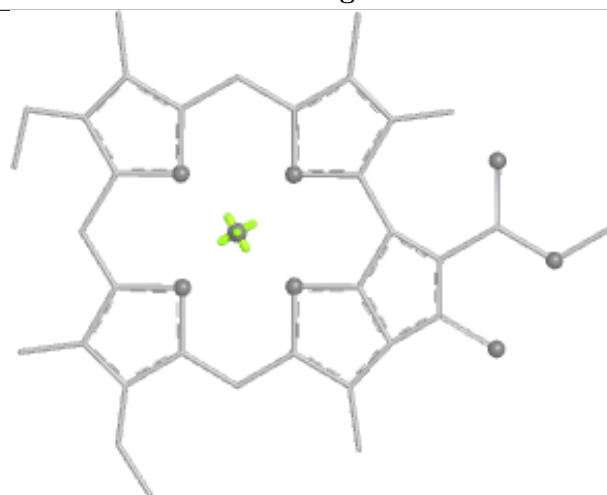
Bond lengths



Bond angles

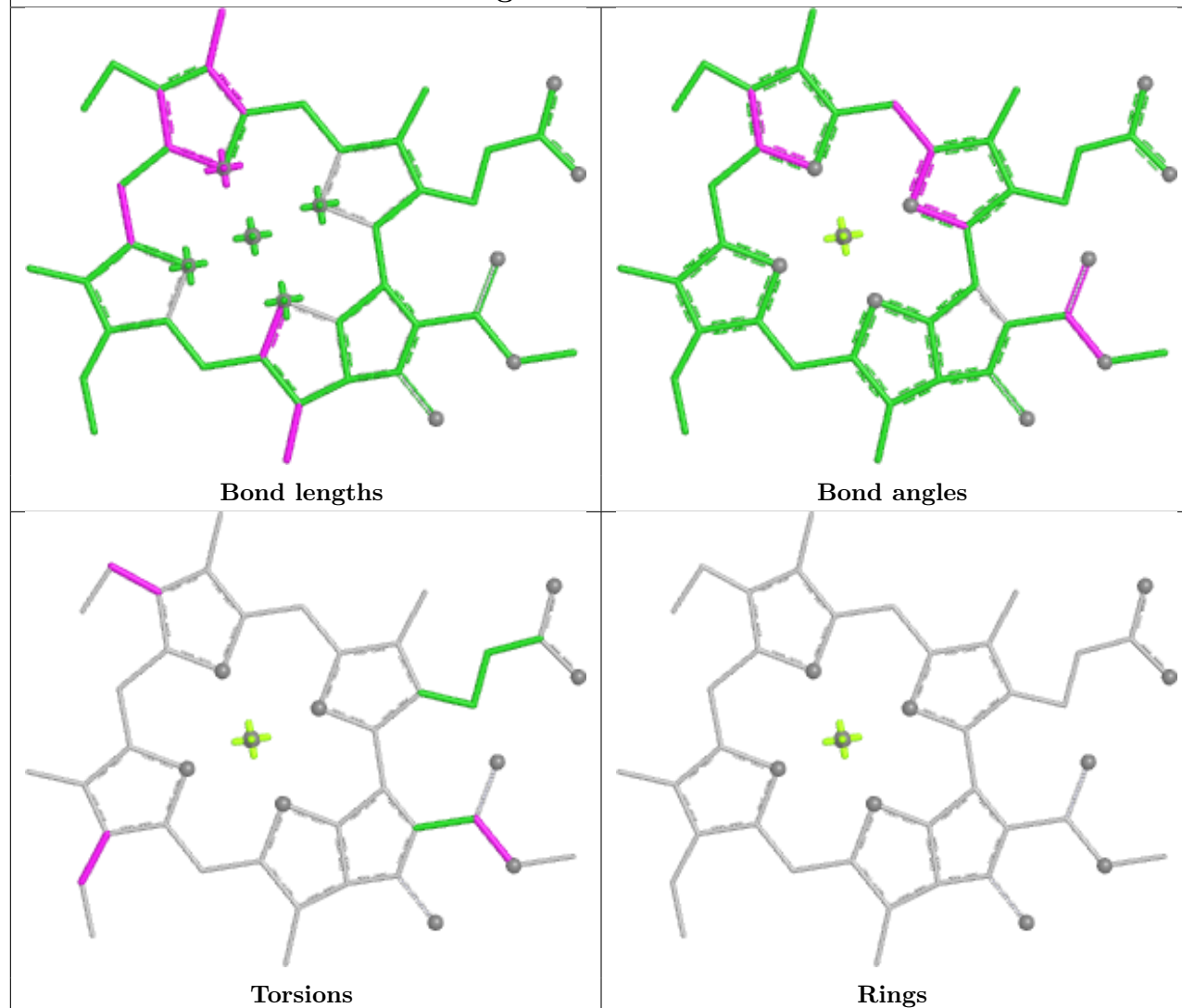


Torsions

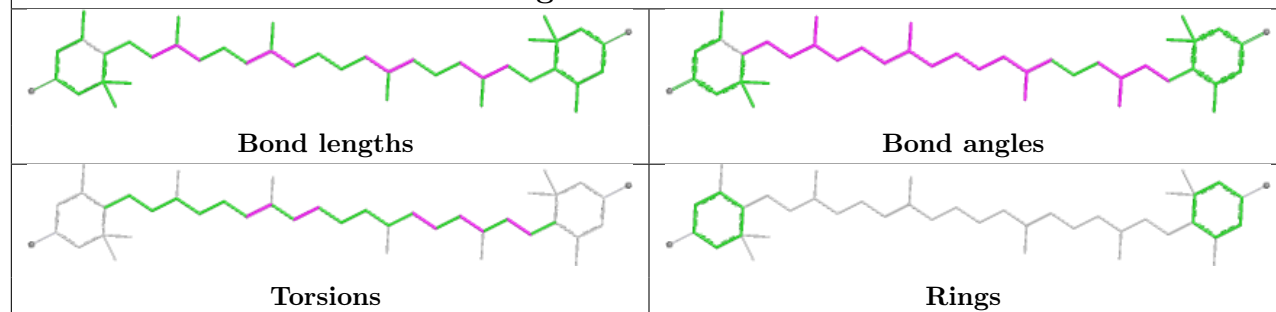


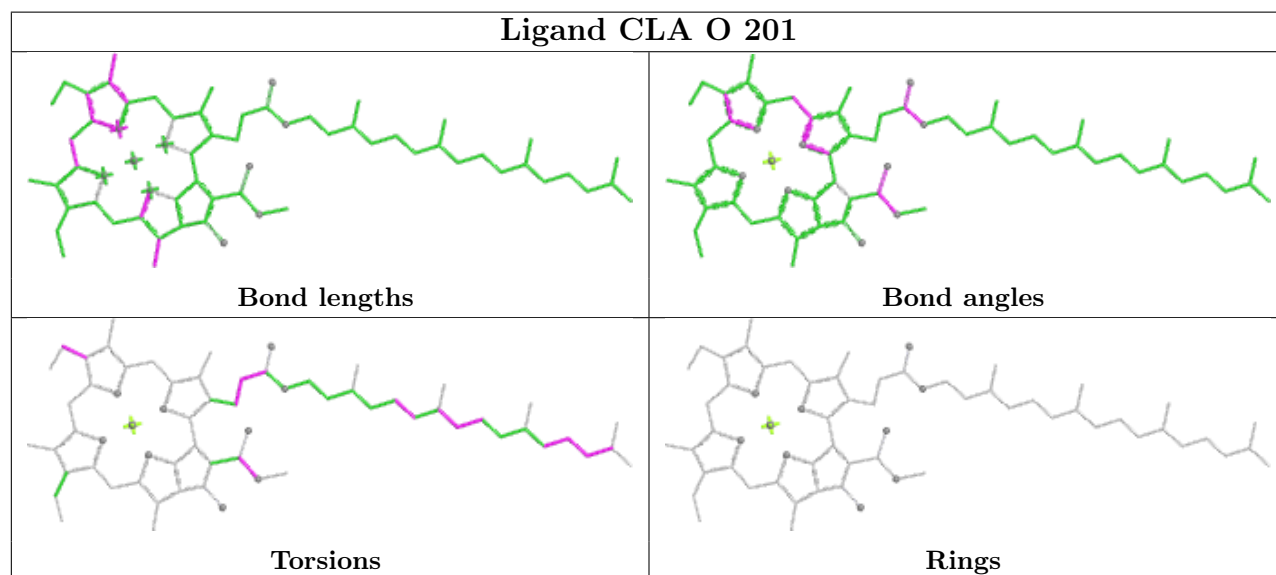
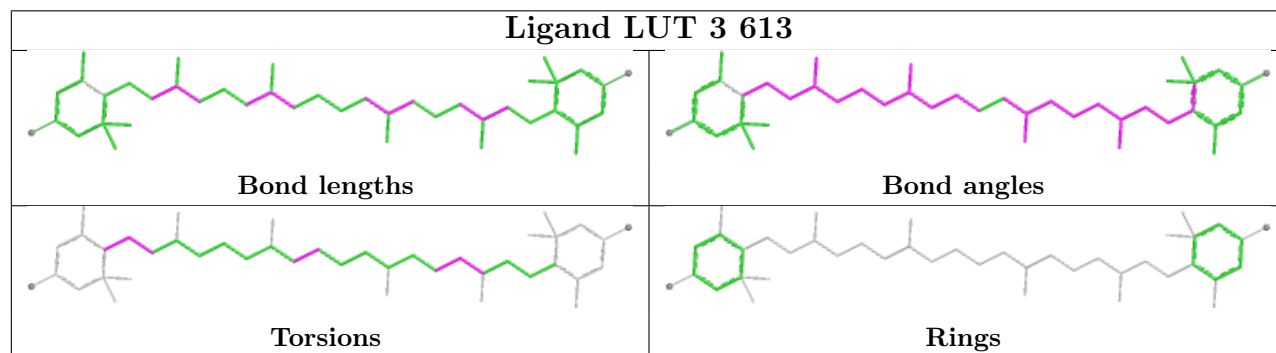
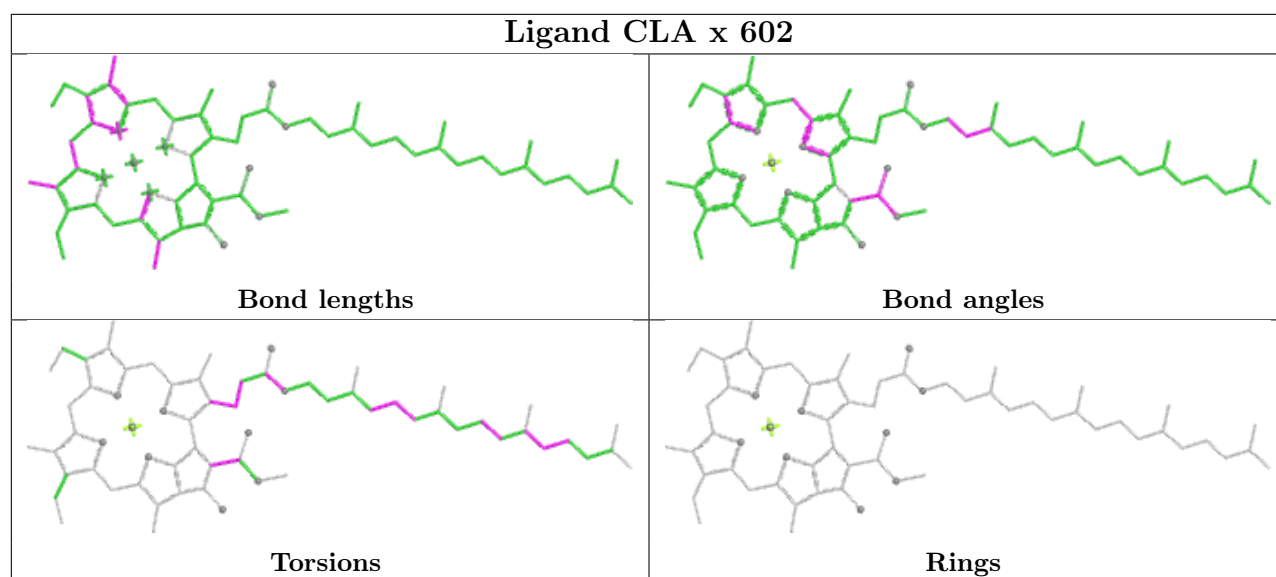
Rings

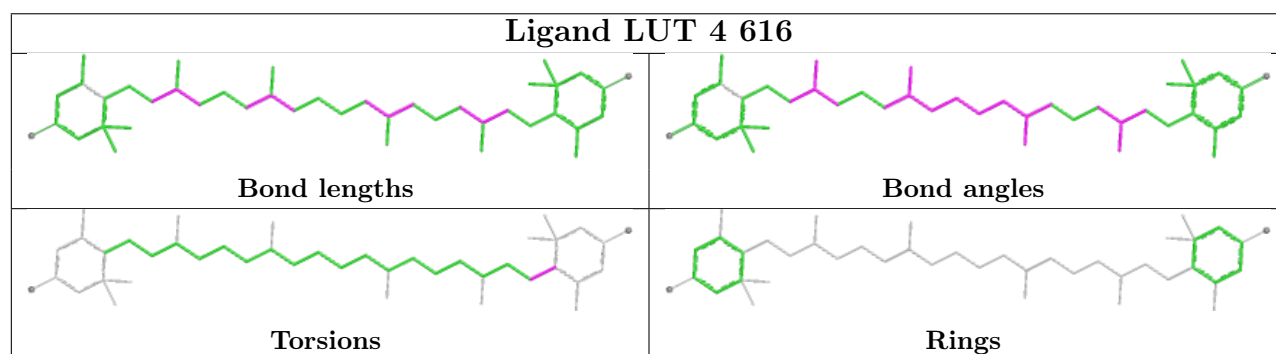
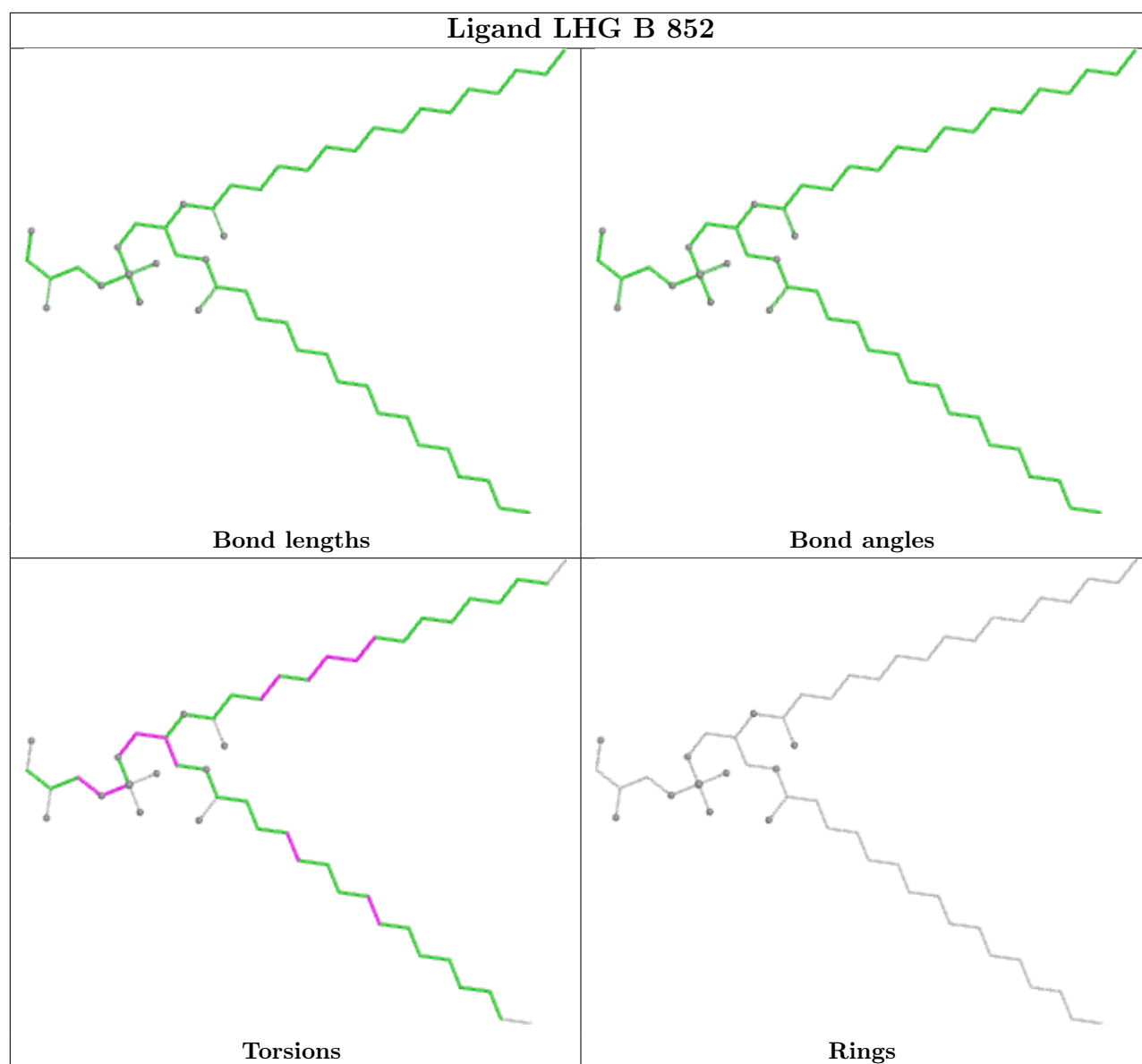
Ligand CLA 4 608



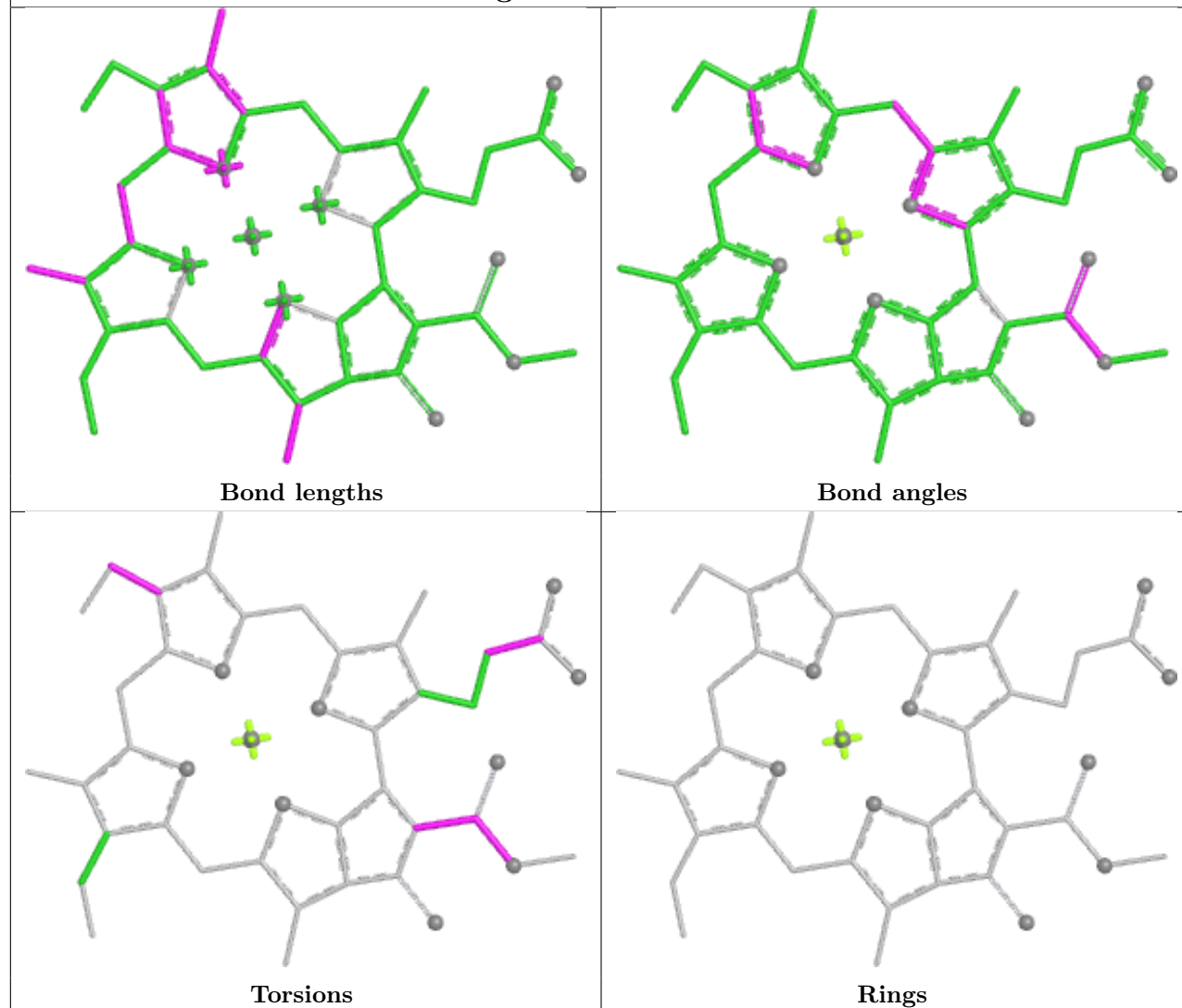
Ligand LUT 2 616



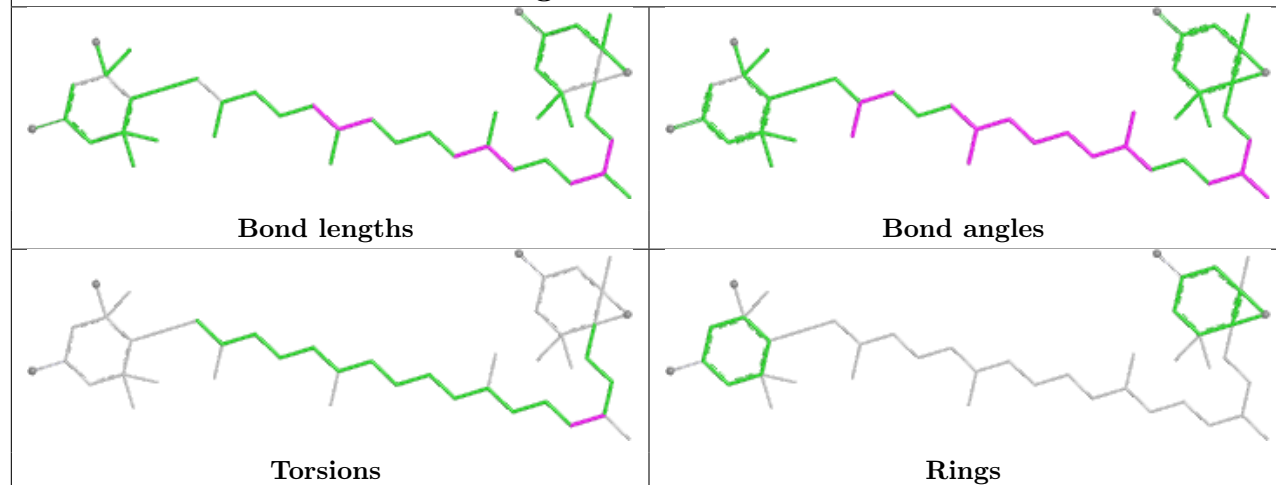




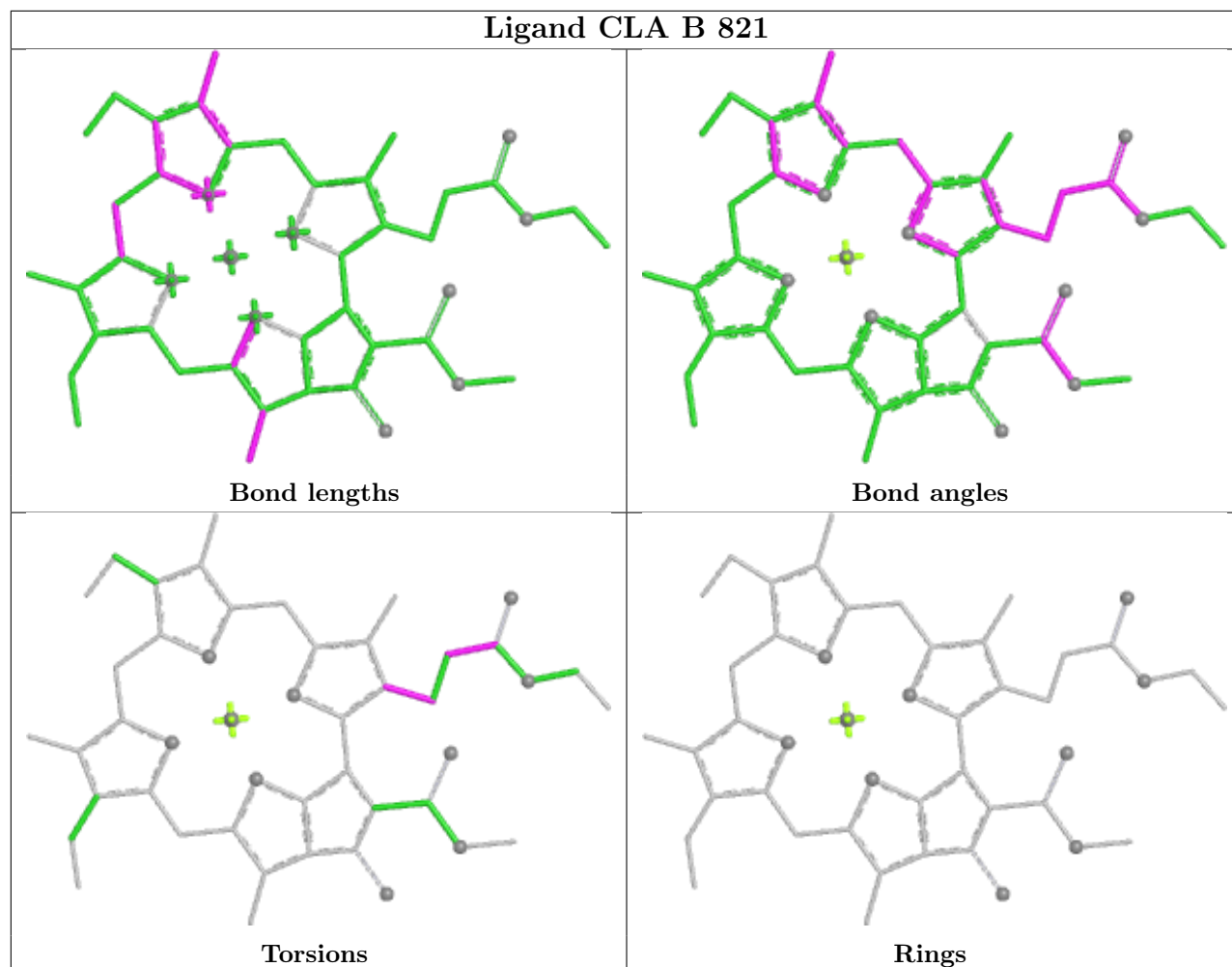
Ligand CLA x 612



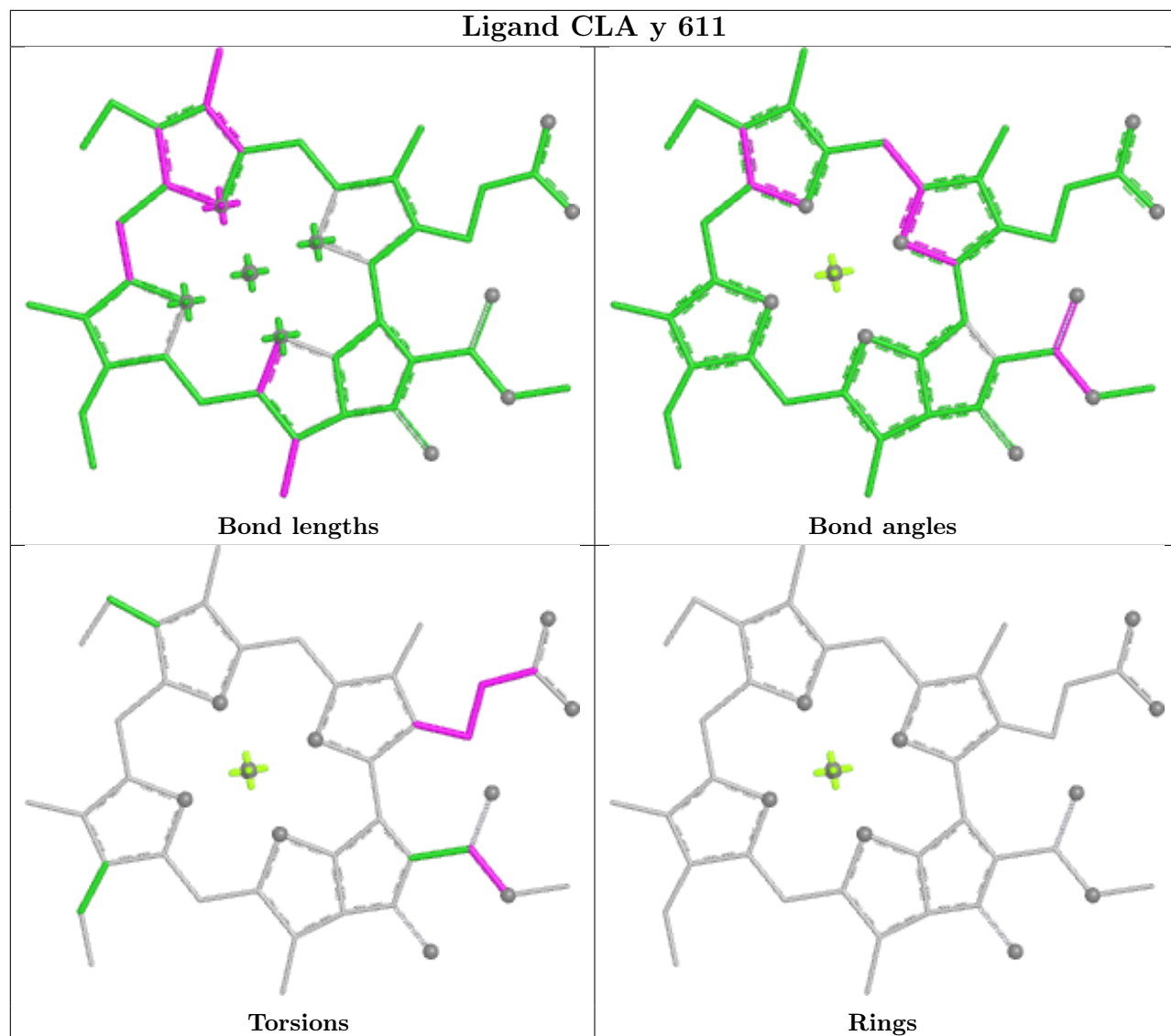
Ligand NEX z 618



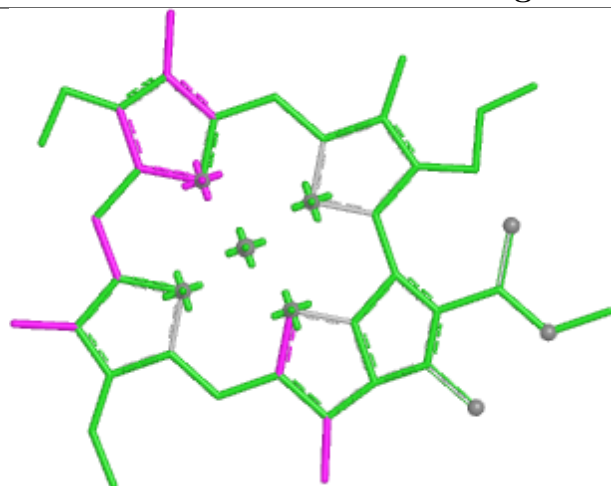
Ligand CLA B 821



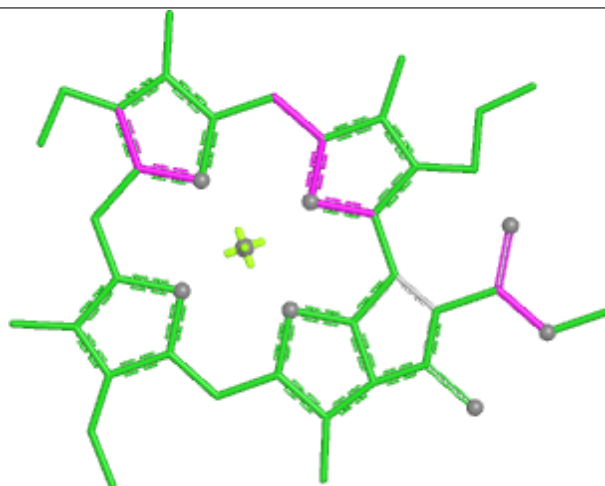
Ligand CLA y 611



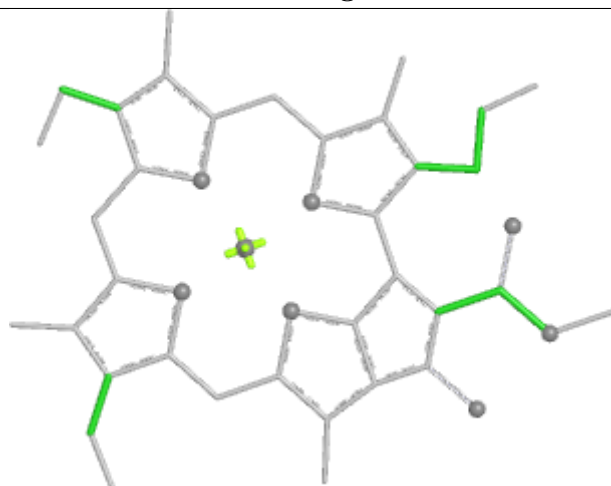
Ligand CLA B 812



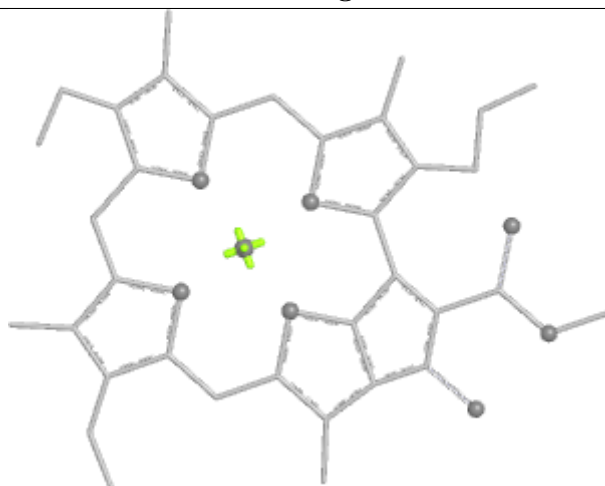
Bond lengths



Bond angles

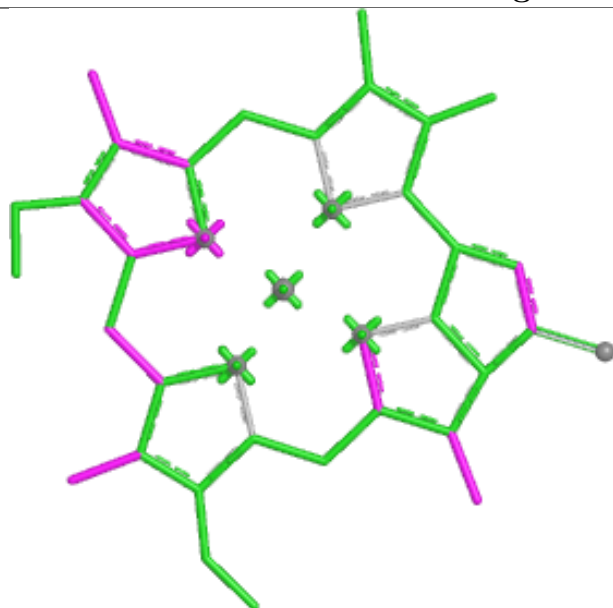


Torsions

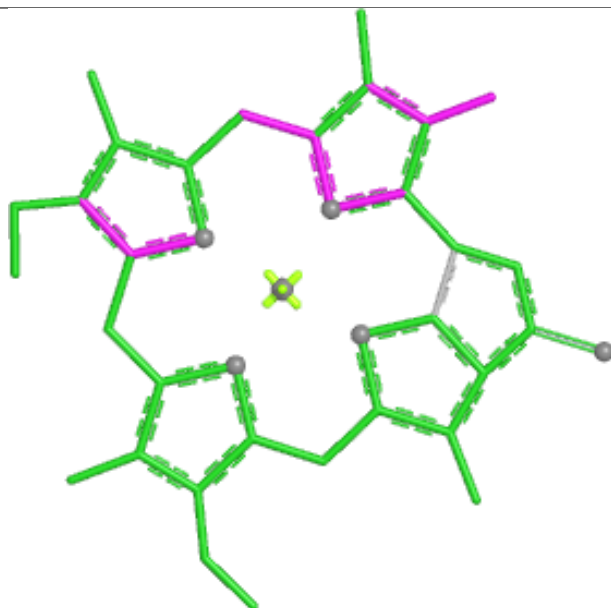


Rings

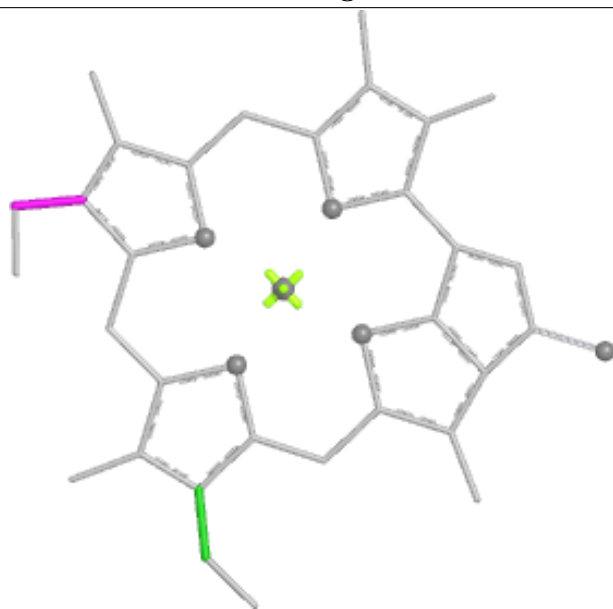
Ligand CLA K 201



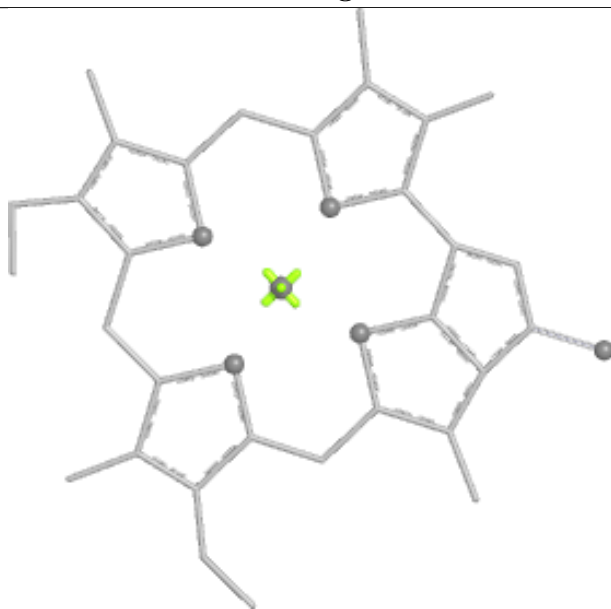
Bond lengths



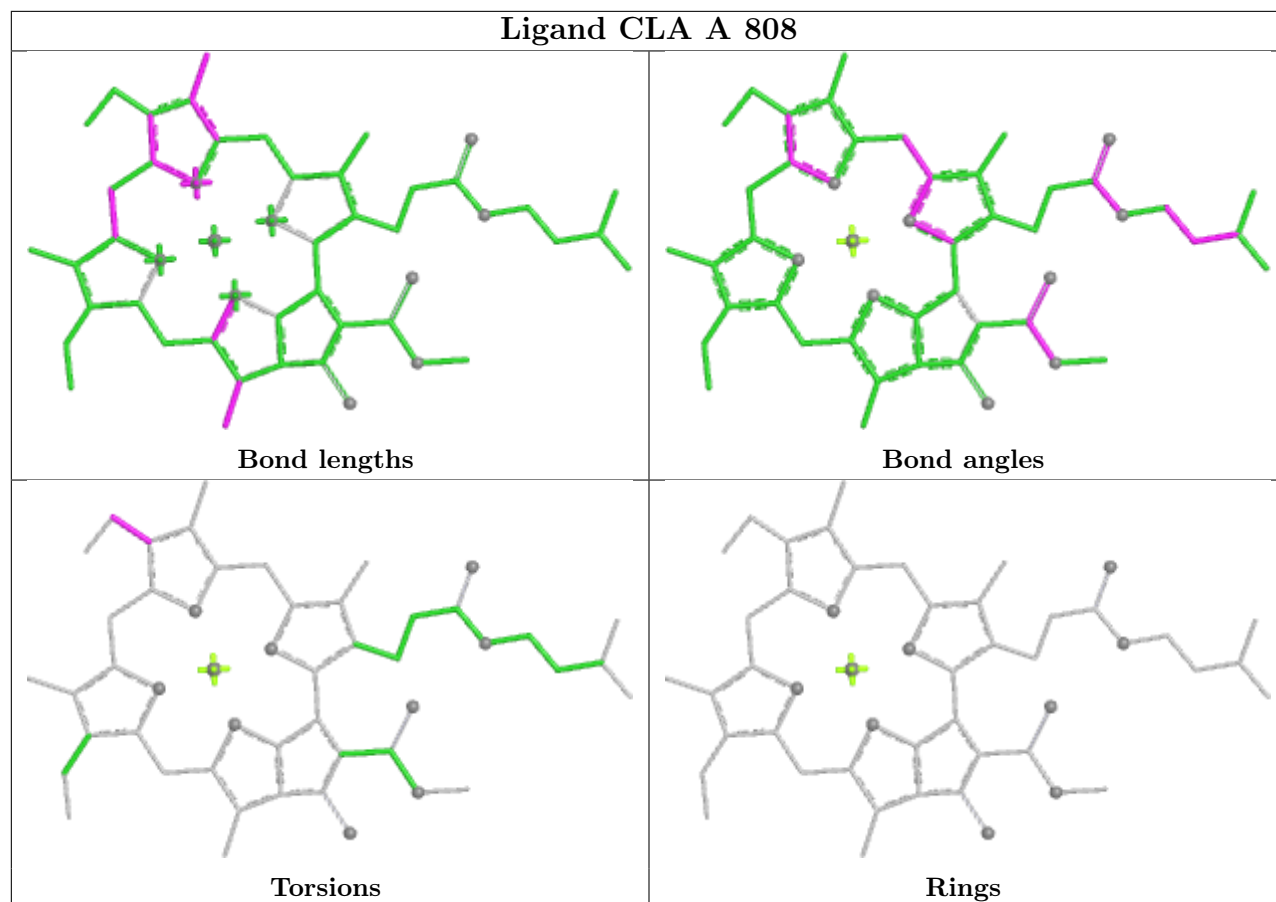
Bond angles



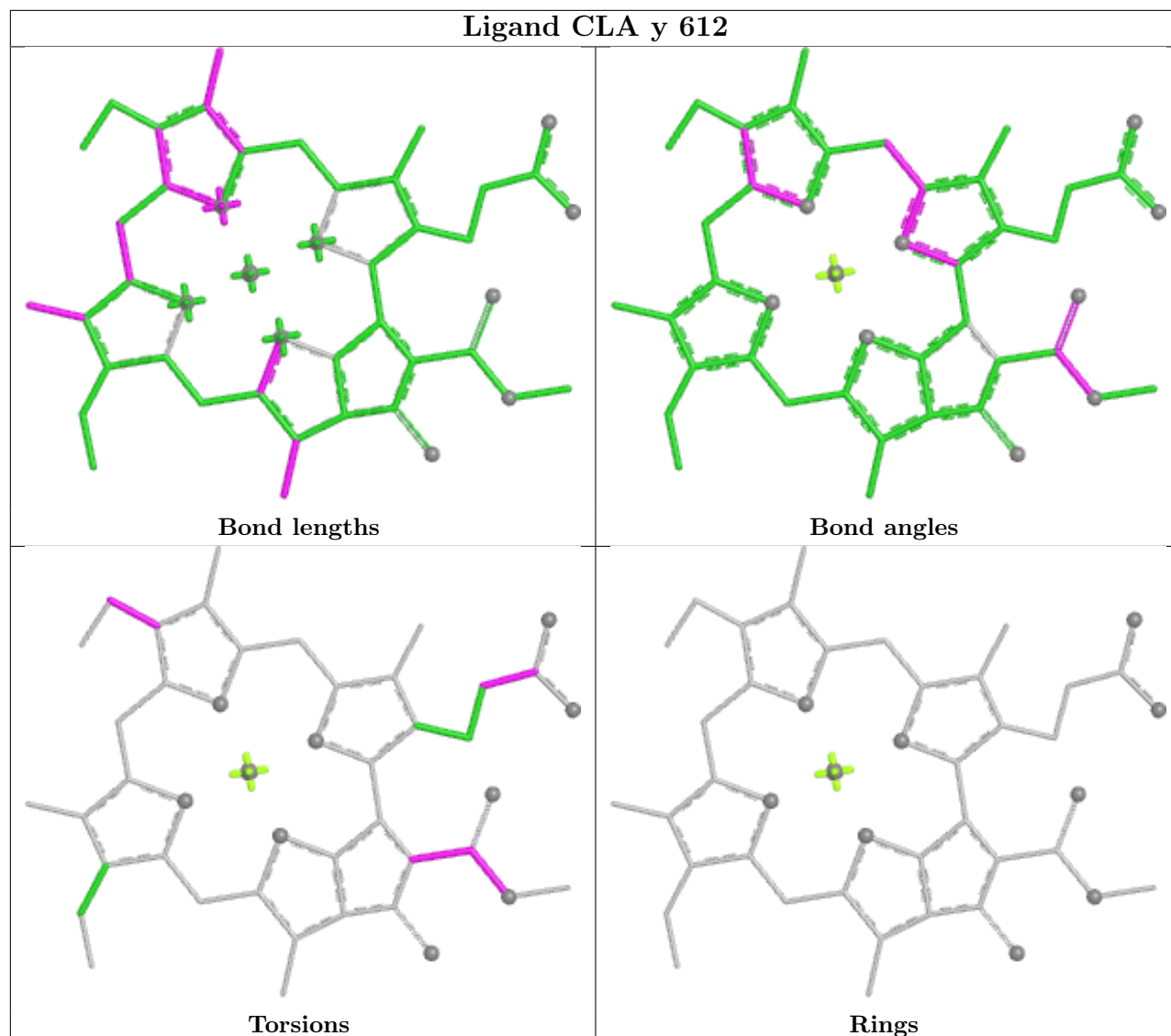
Torsions



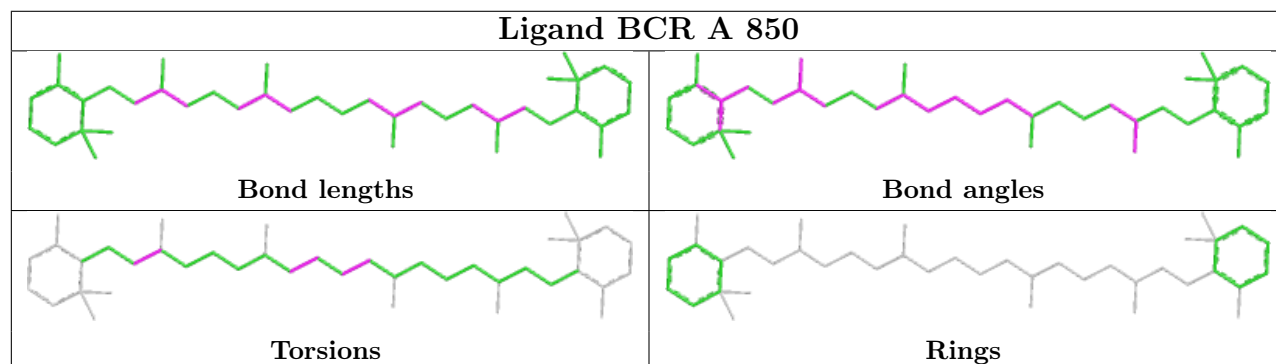
Rings



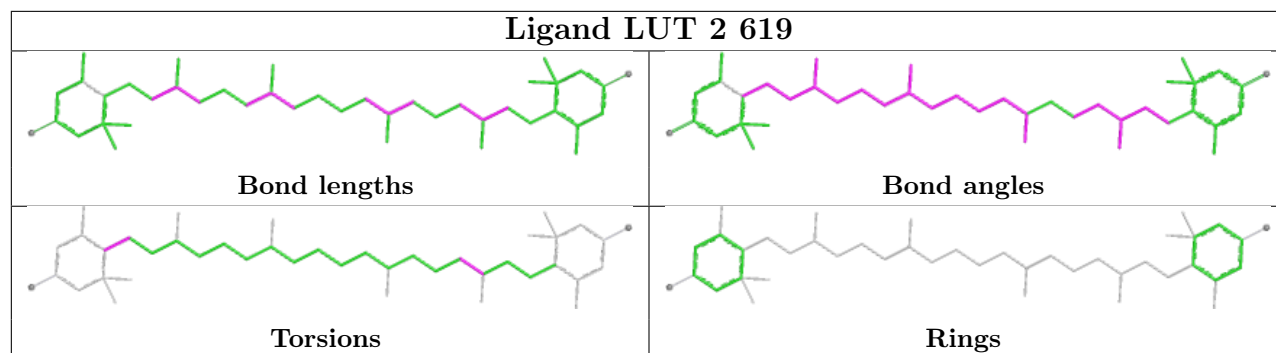
Ligand CLA y 612



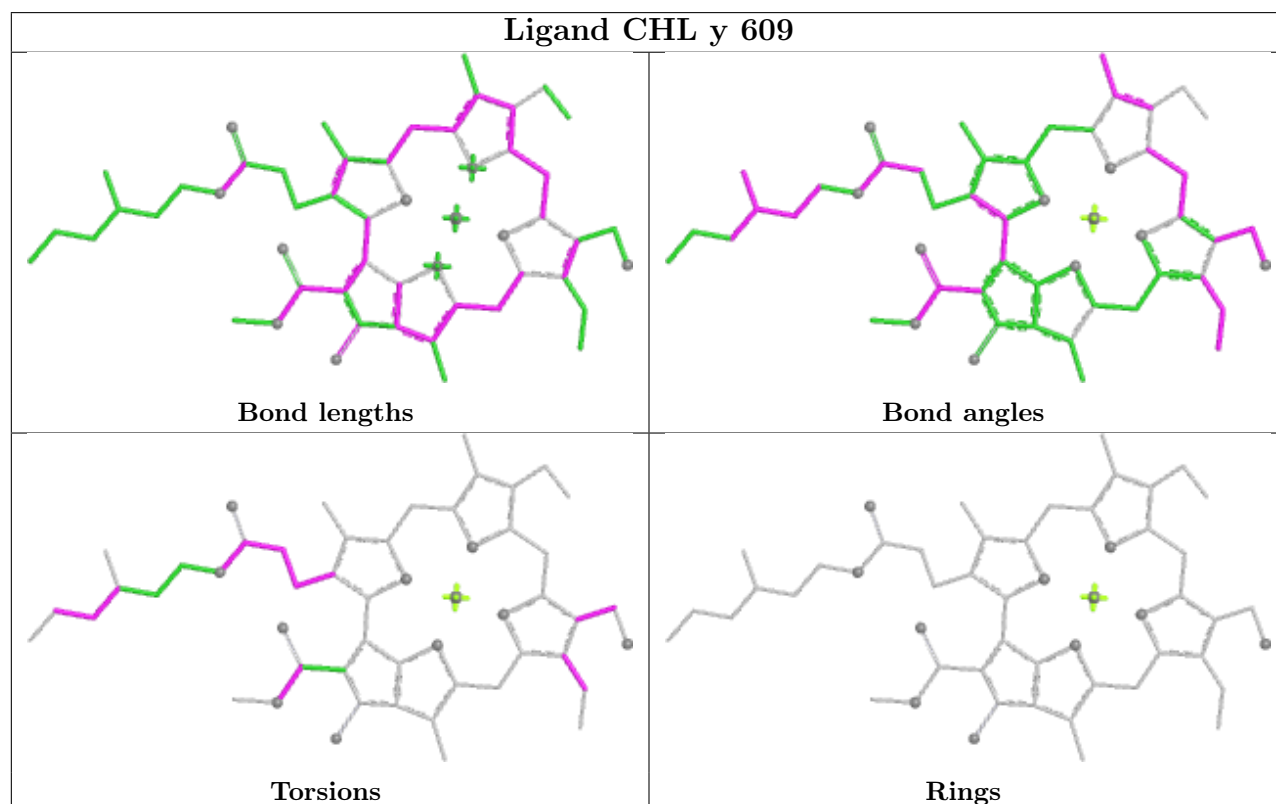
Ligand BCR A 850



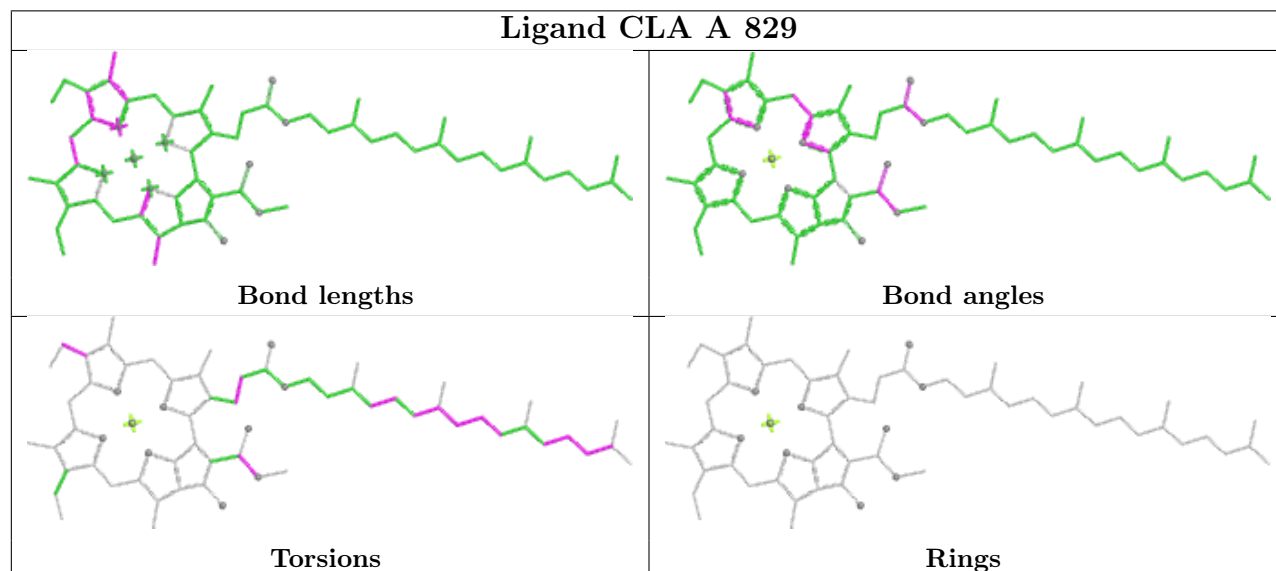
Ligand LUT 2 619



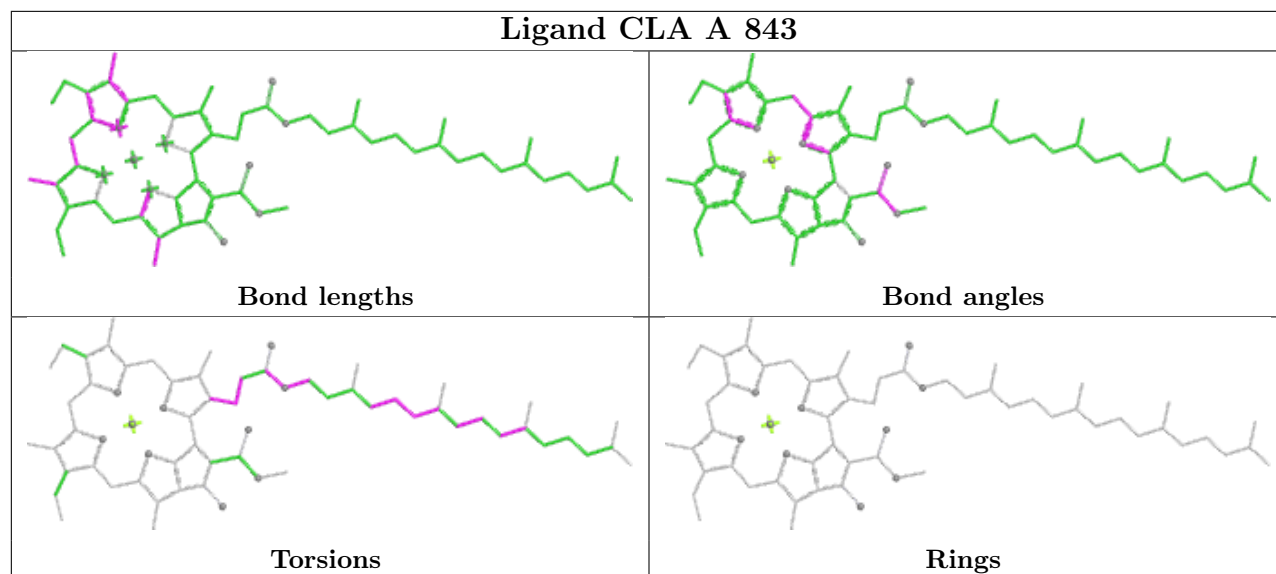
Ligand CHL y 609



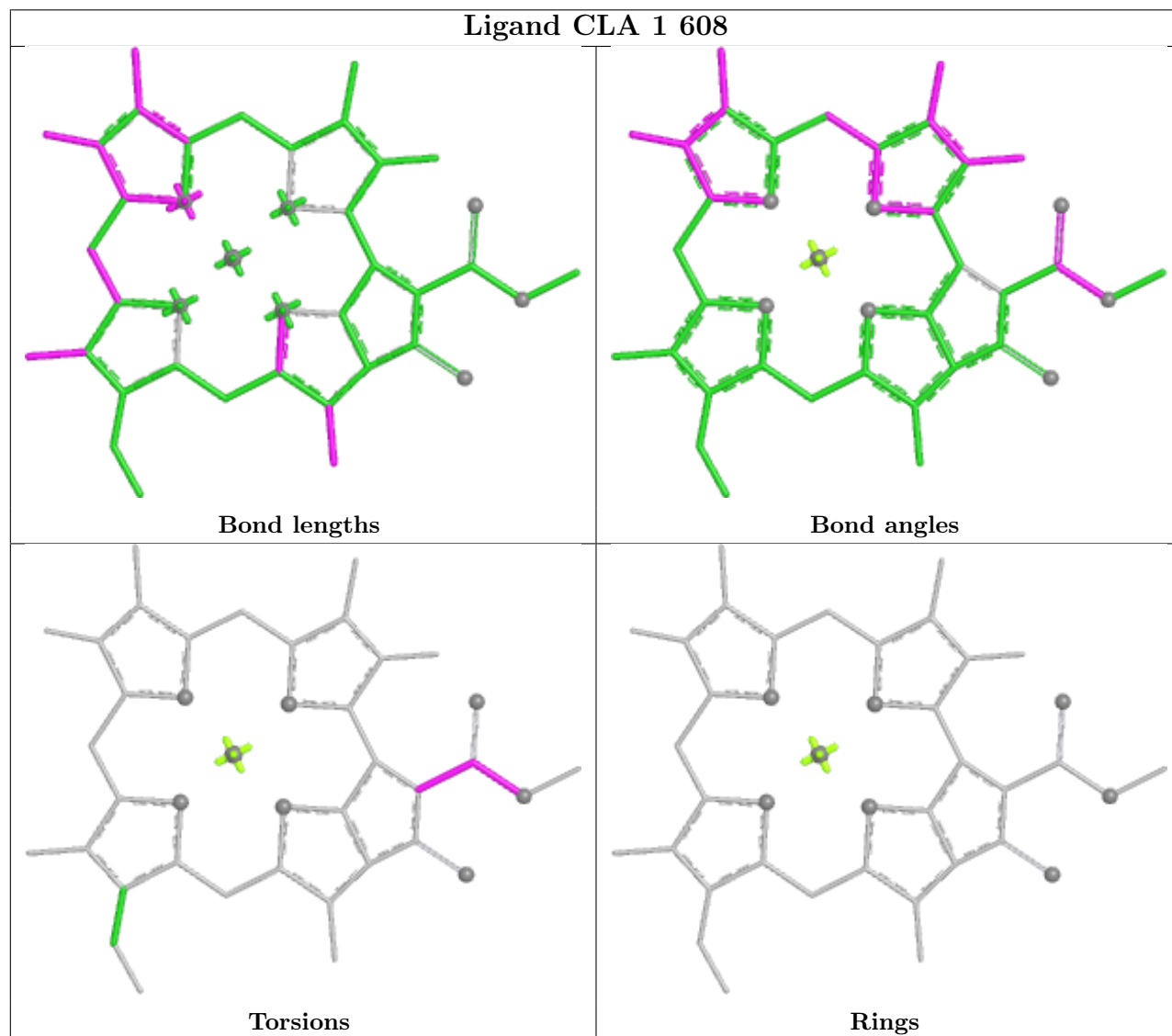
Ligand CLA A 829

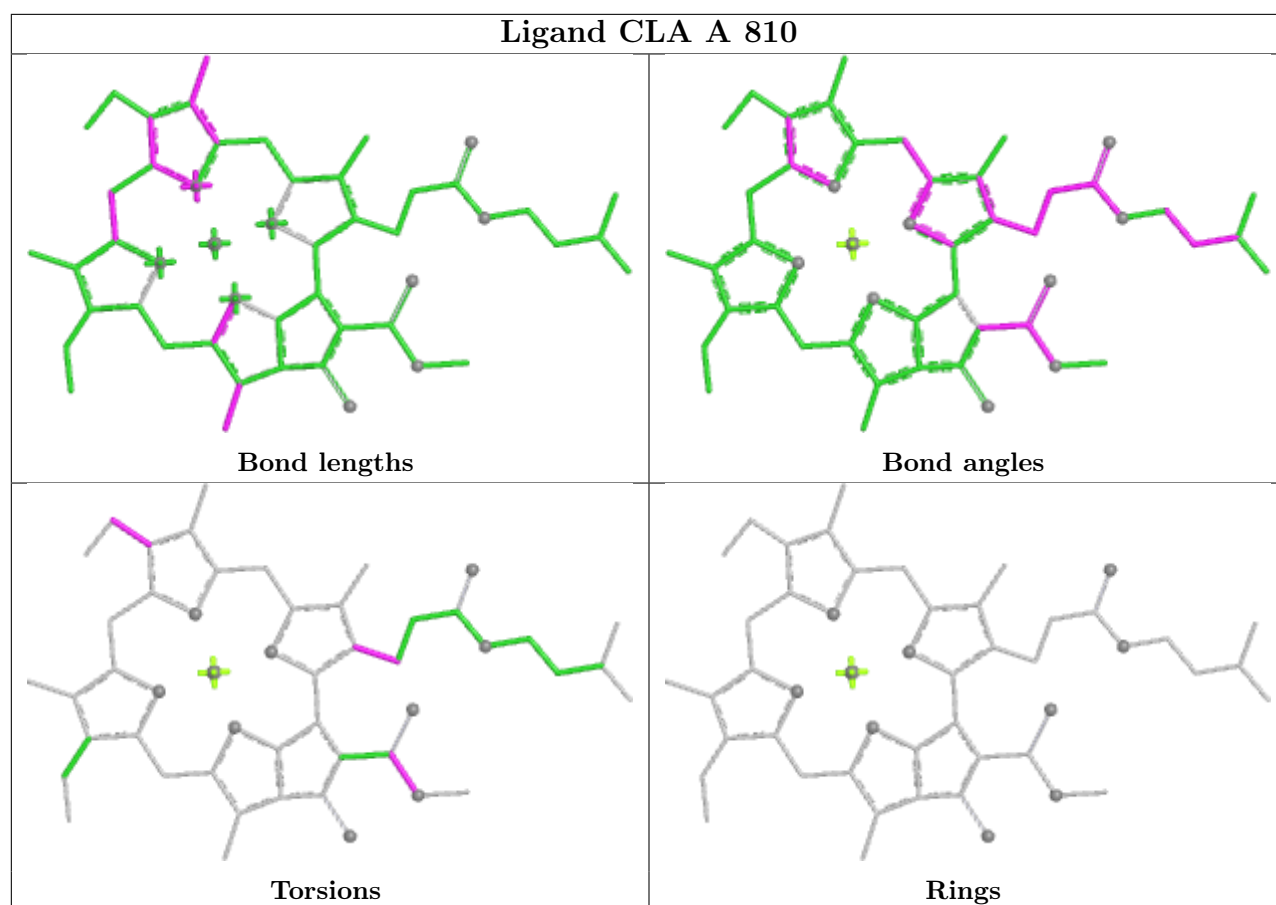


Ligand CLA A 843

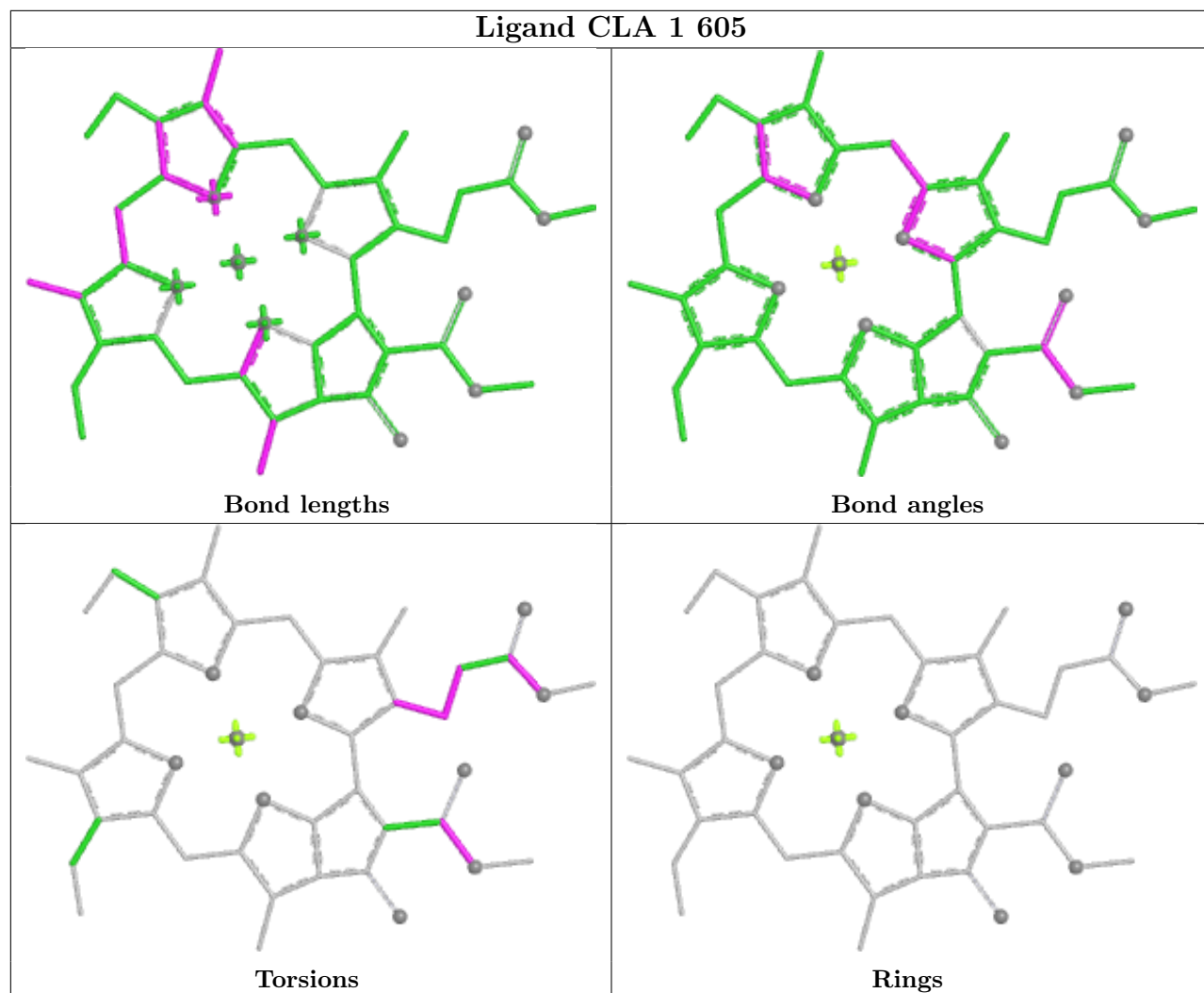


Ligand CLA 1 608

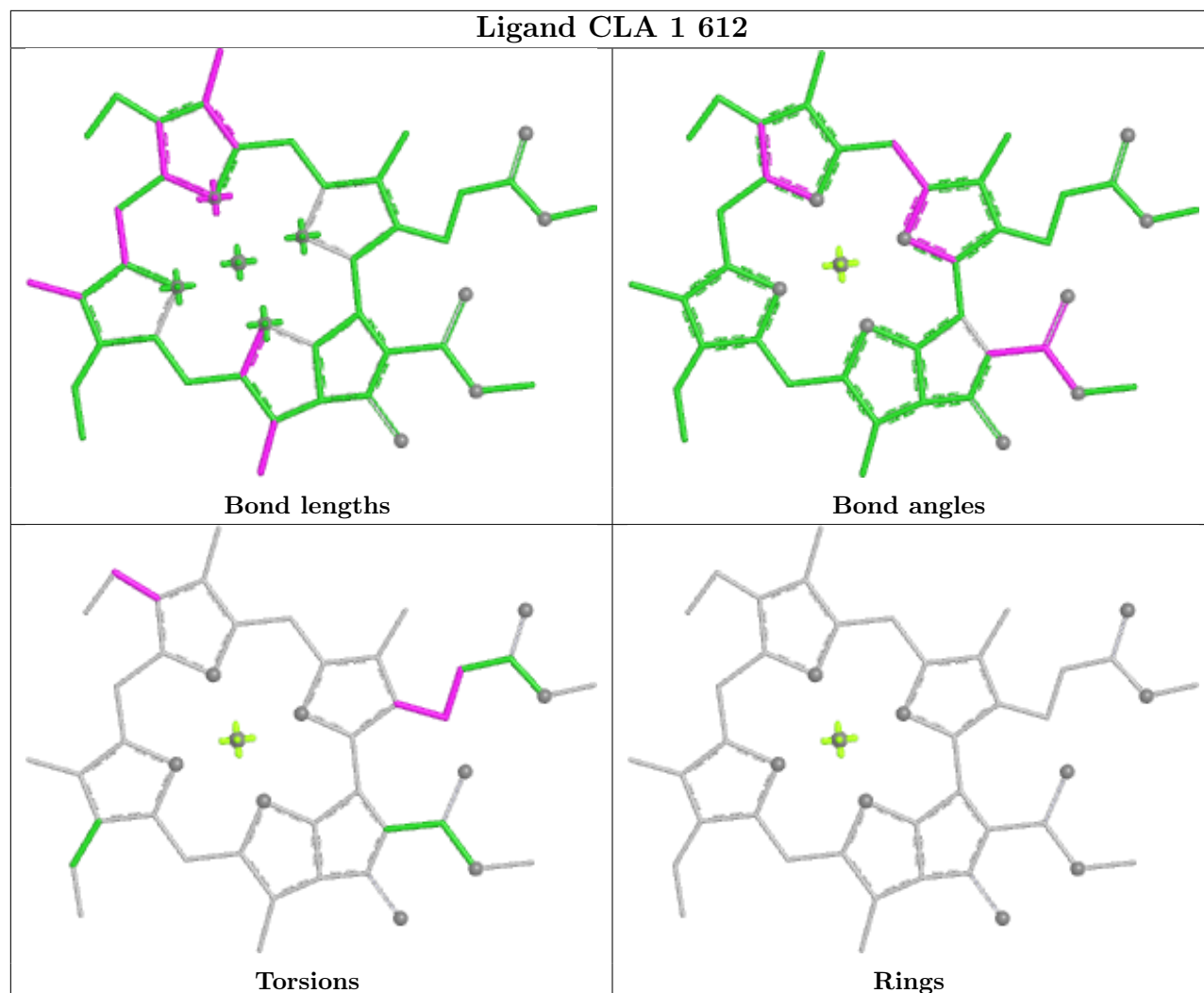




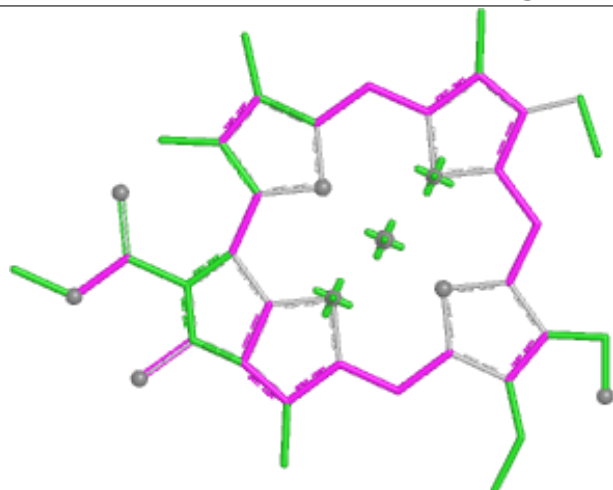
Ligand CLA 1 605



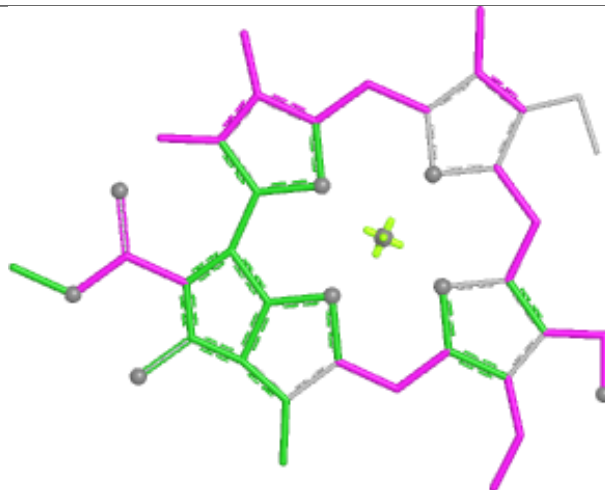
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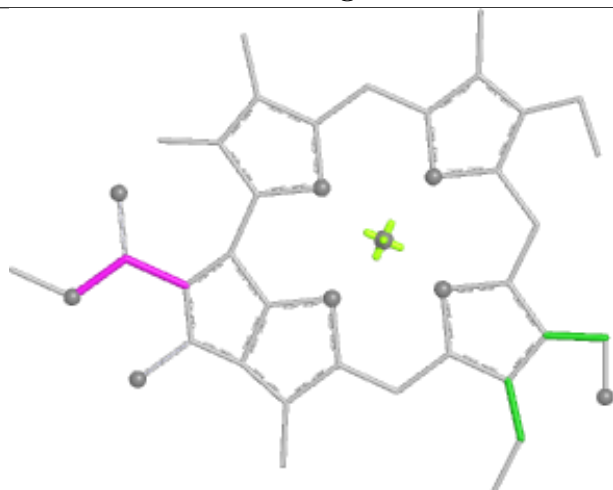
Ligand CHL z 605



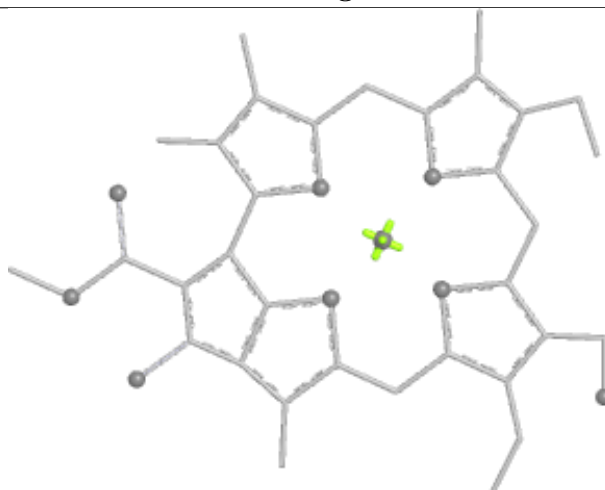
Bond lengths



Bond angles

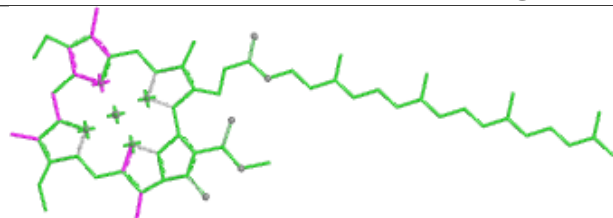


Torsions

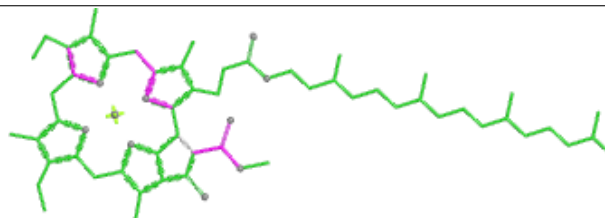


Rings

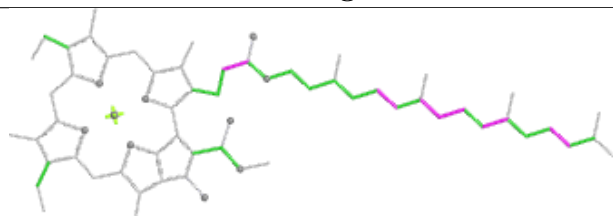
Ligand CLA A 826



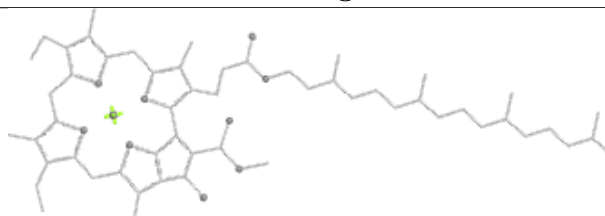
Bond lengths



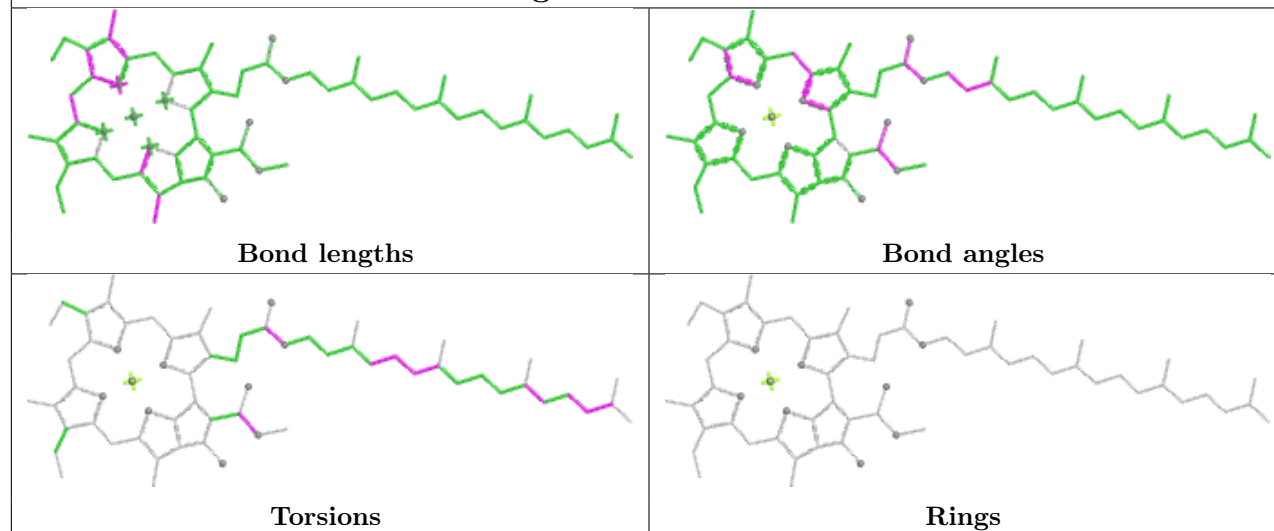
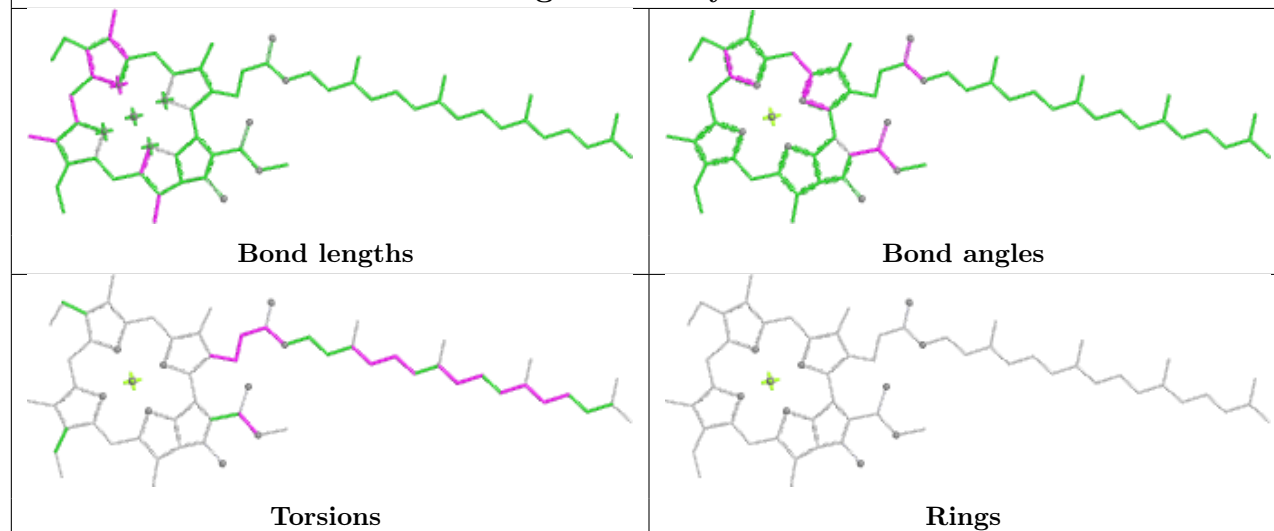
Bond angles

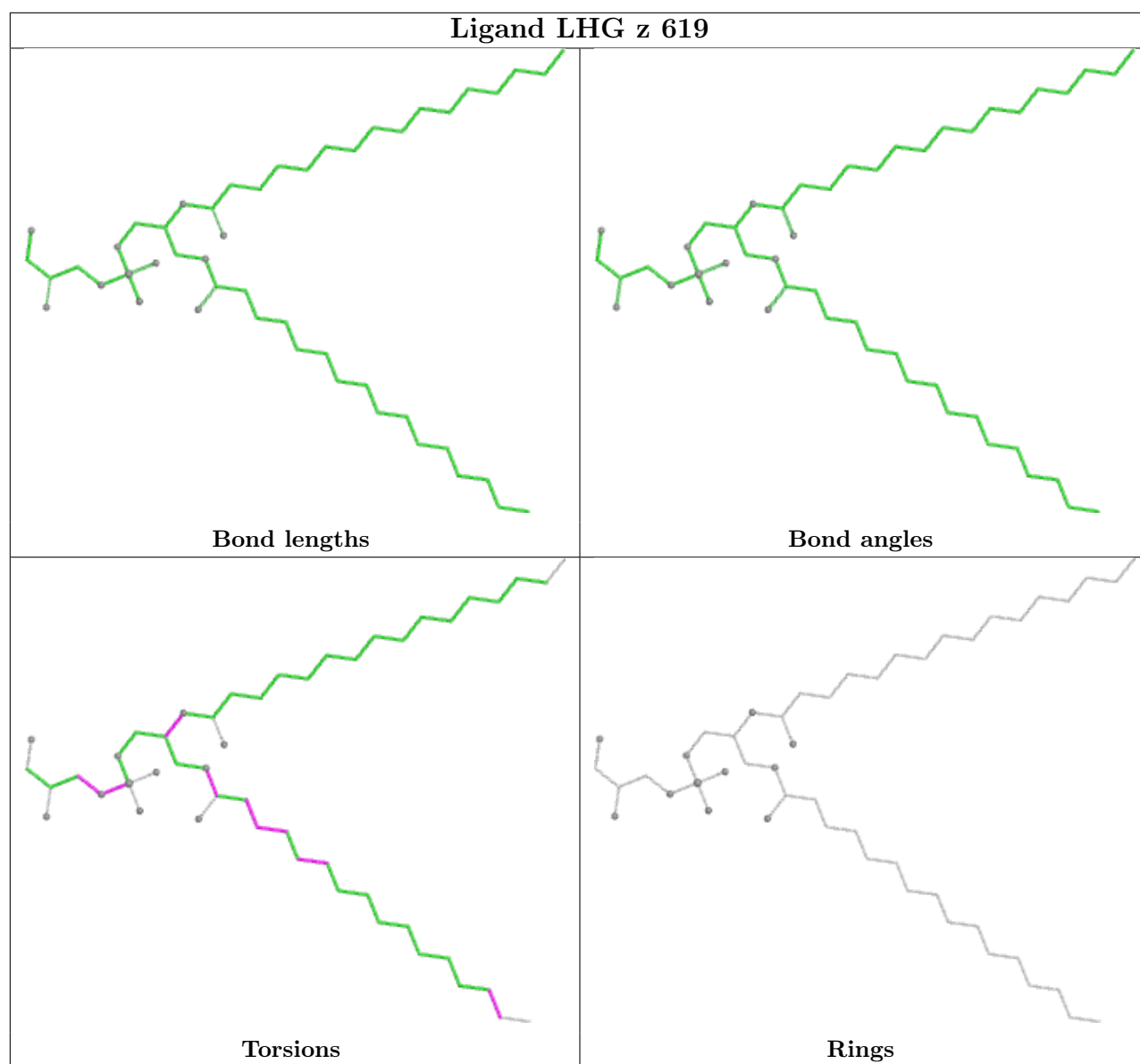


Torsions

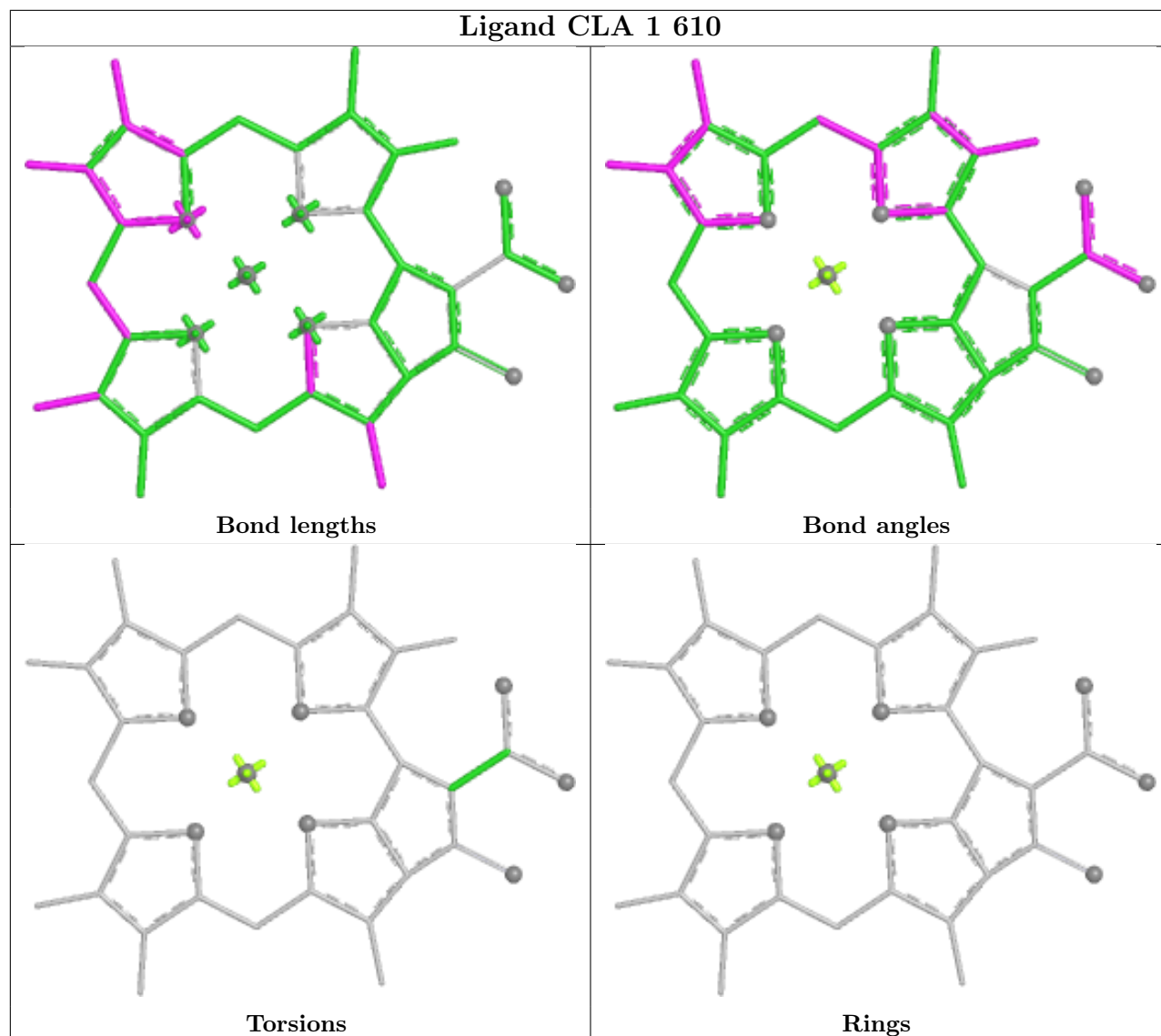


Rings

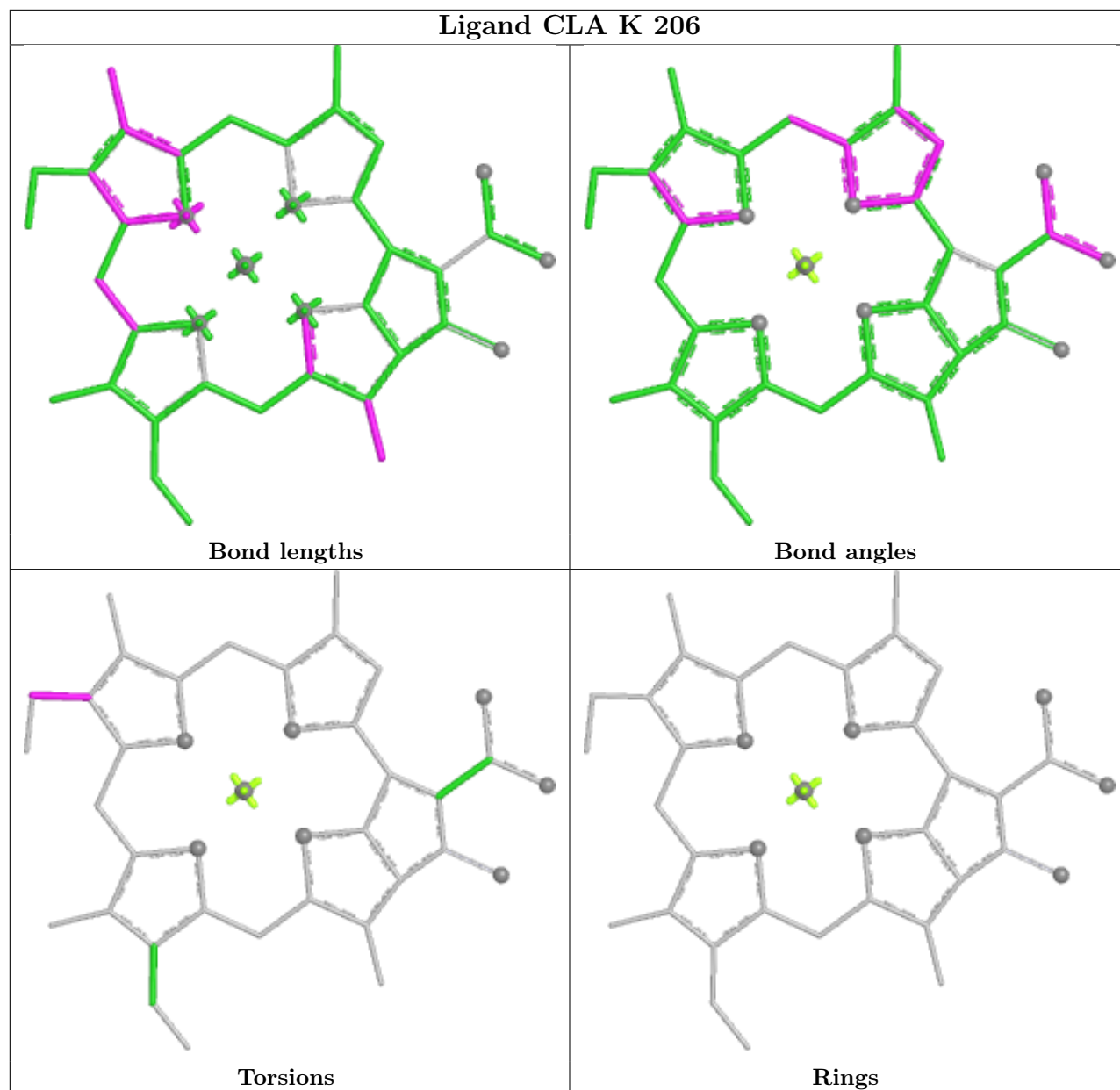
Ligand CLA B 840**Ligand CLA y 602**



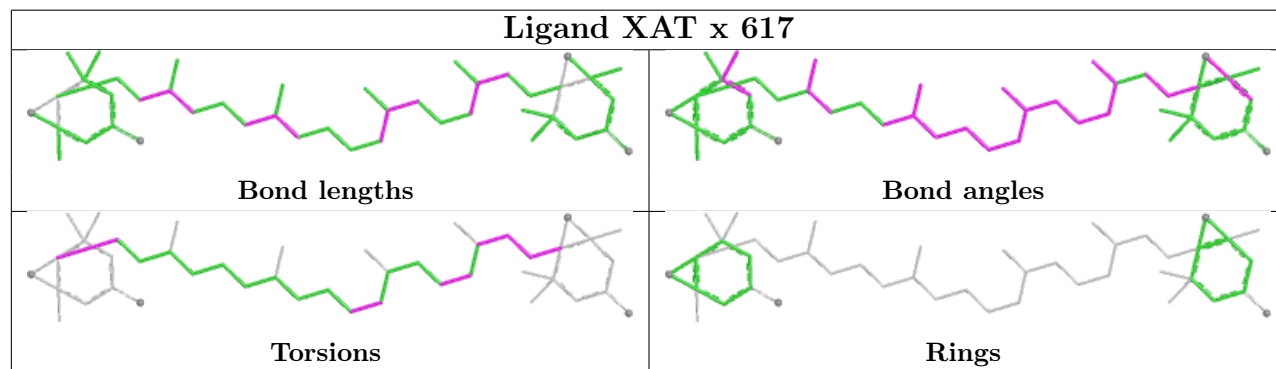
Ligand CLA 1 610



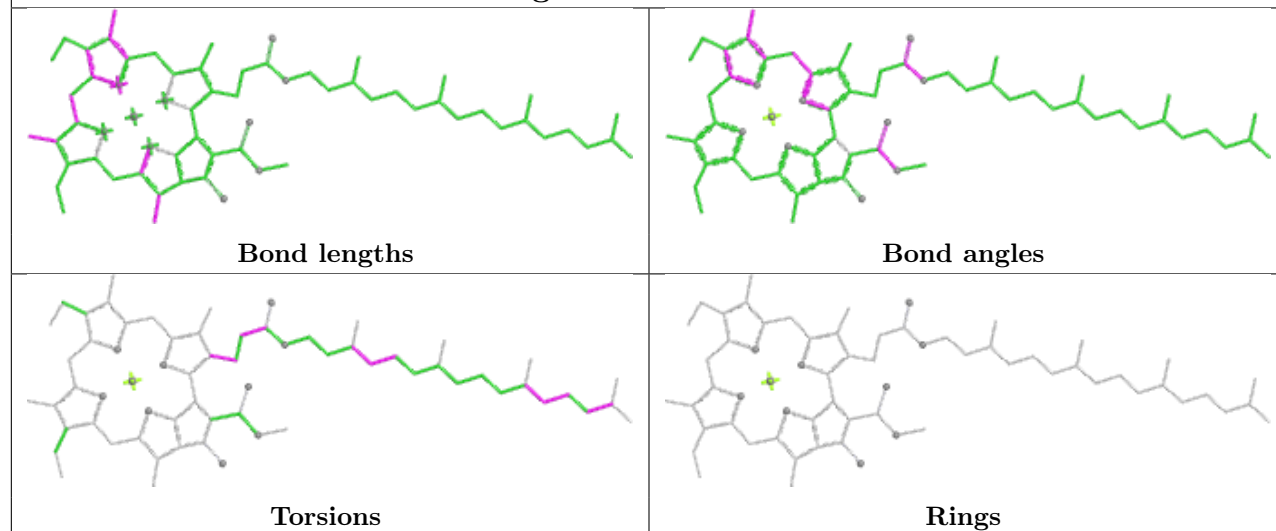
Ligand CLA K 206



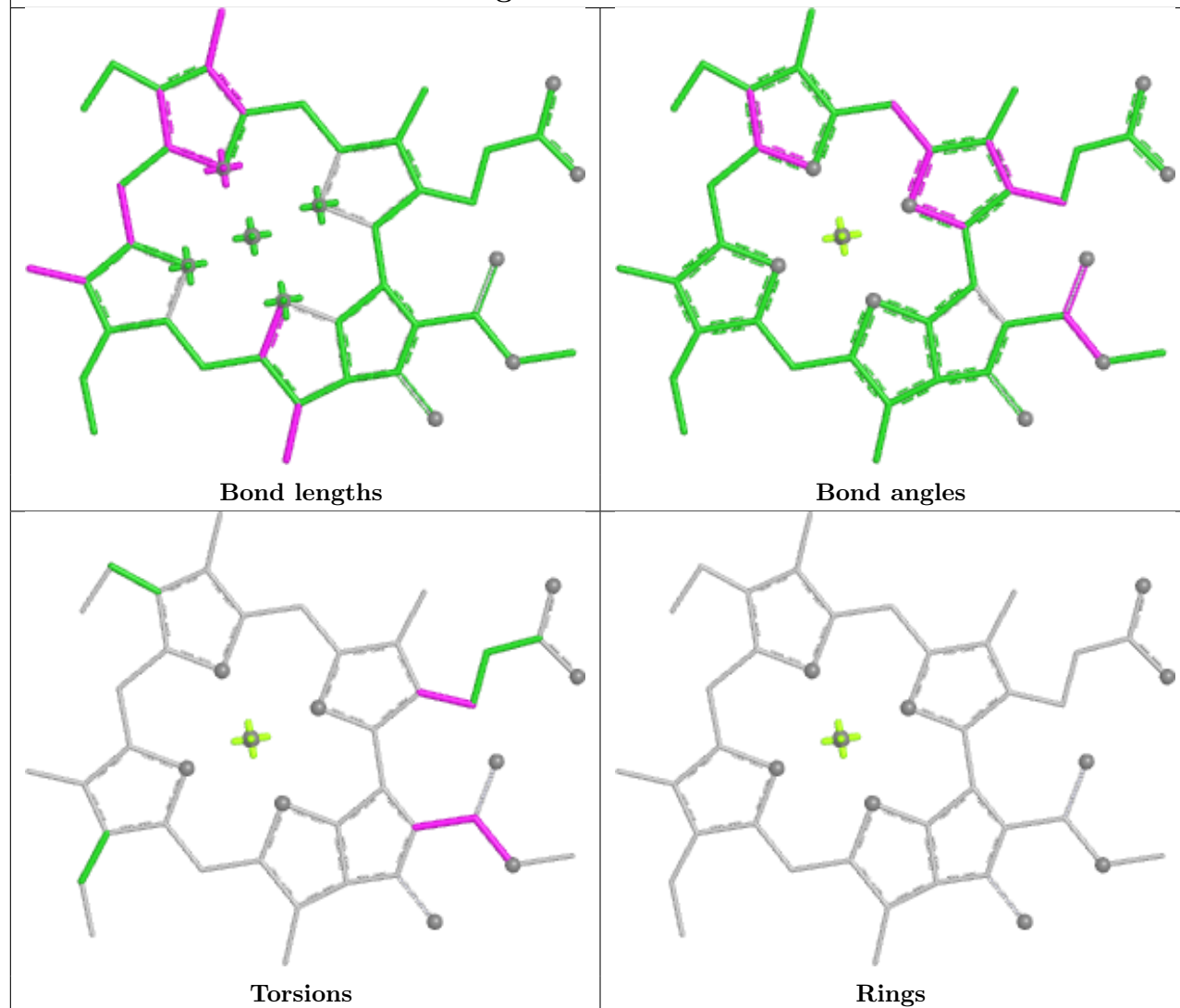
Ligand XAT x 617

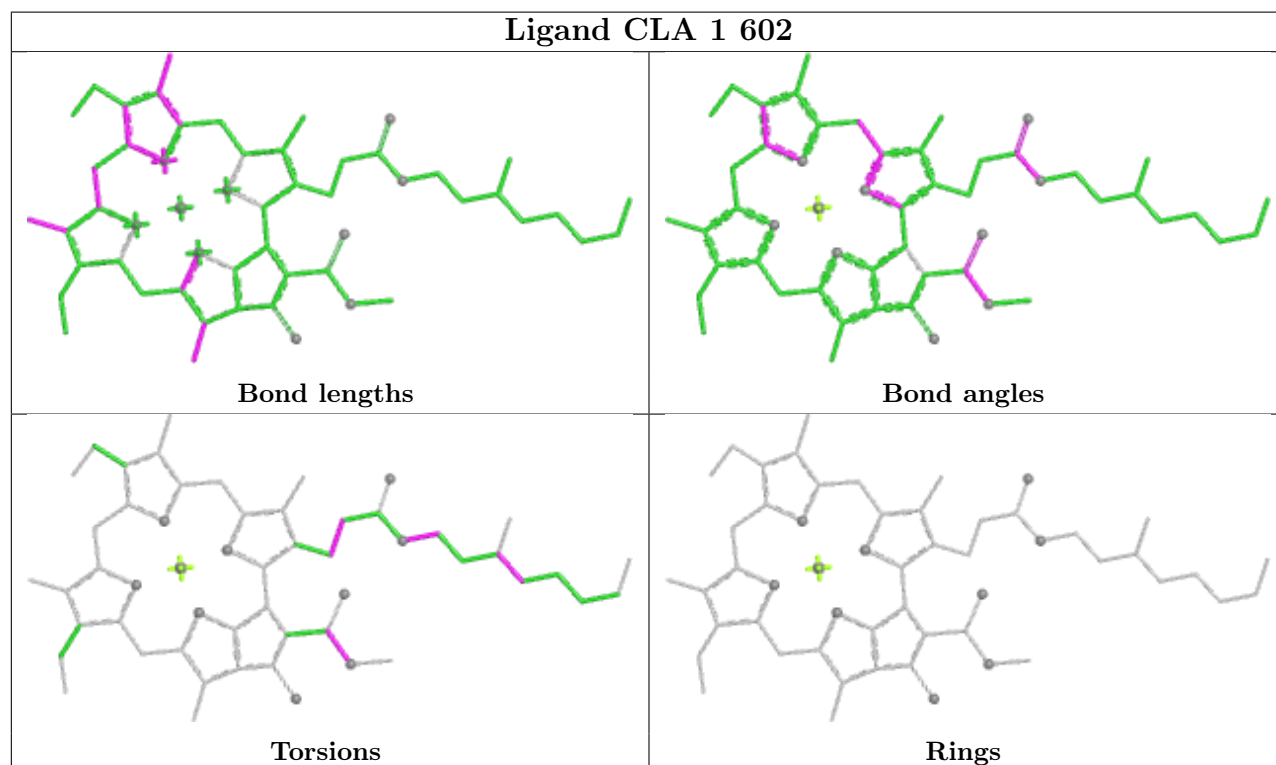
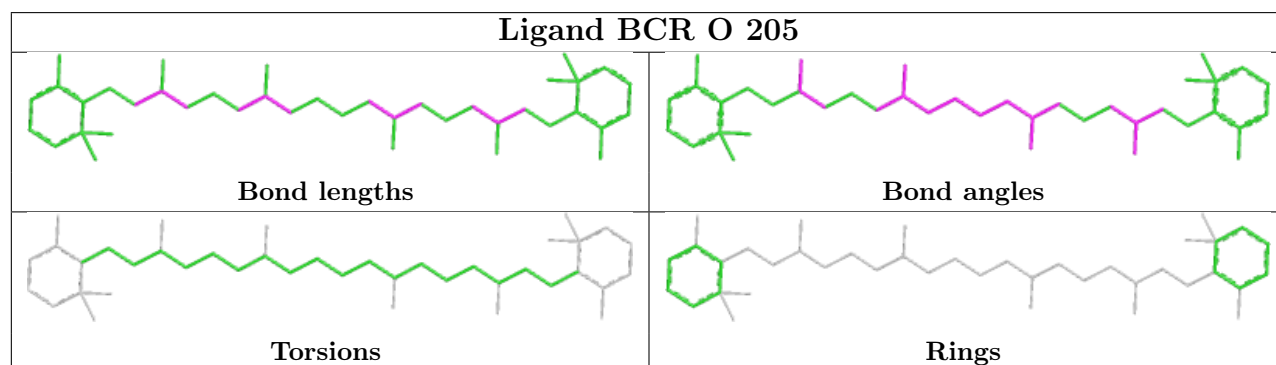
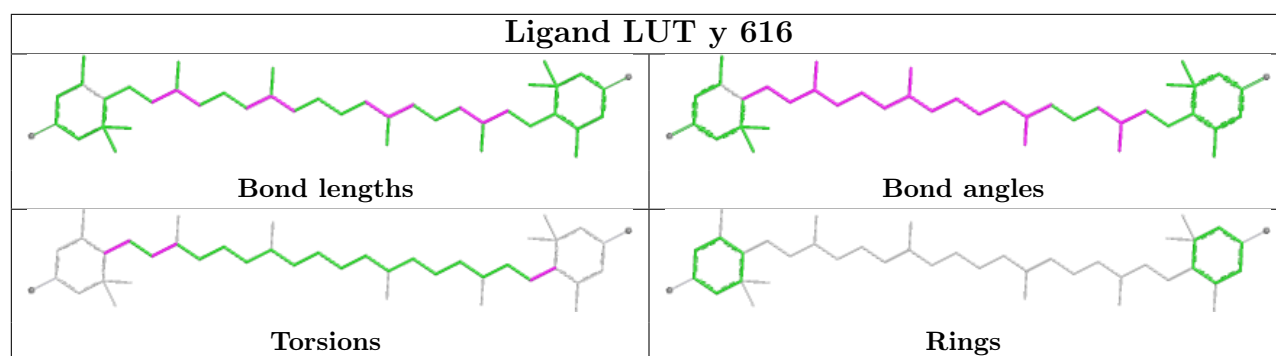


Ligand CLA B 824

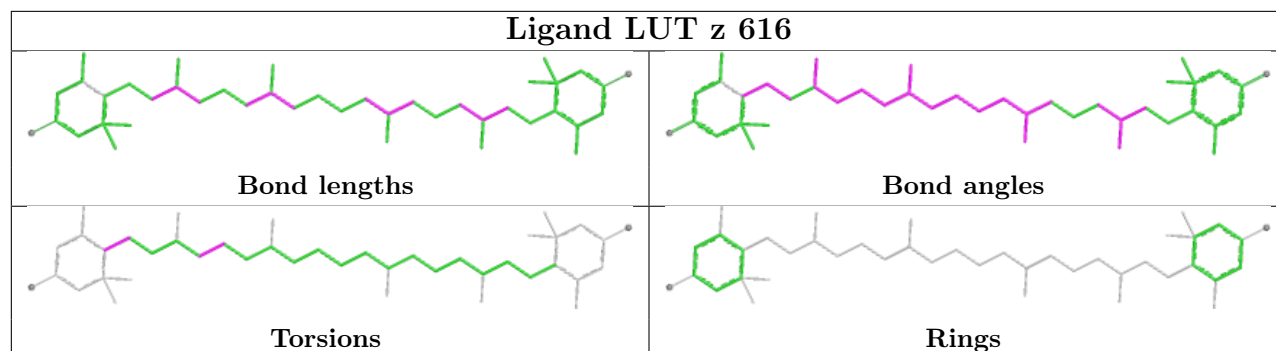


Ligand CLA 3 607

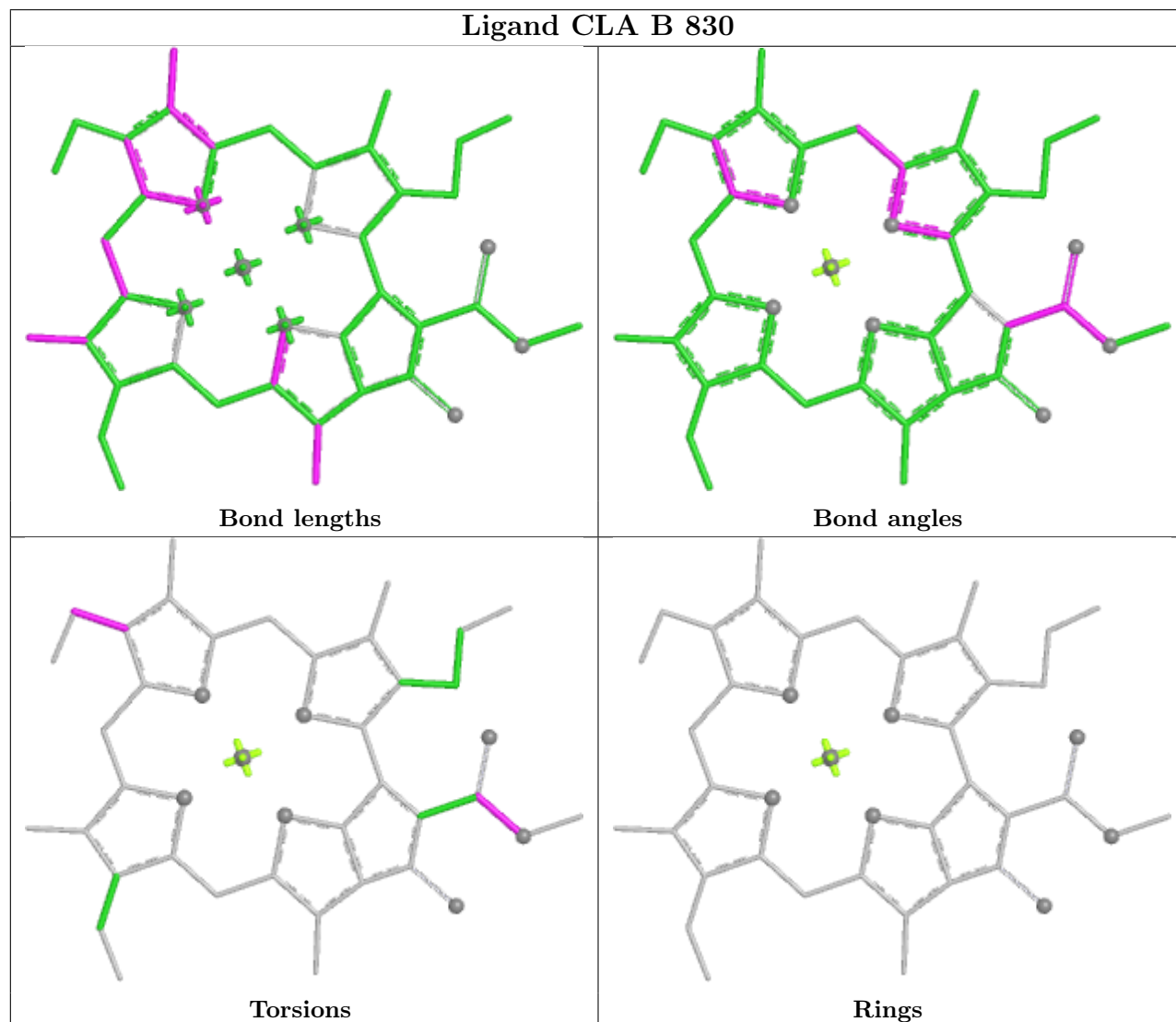




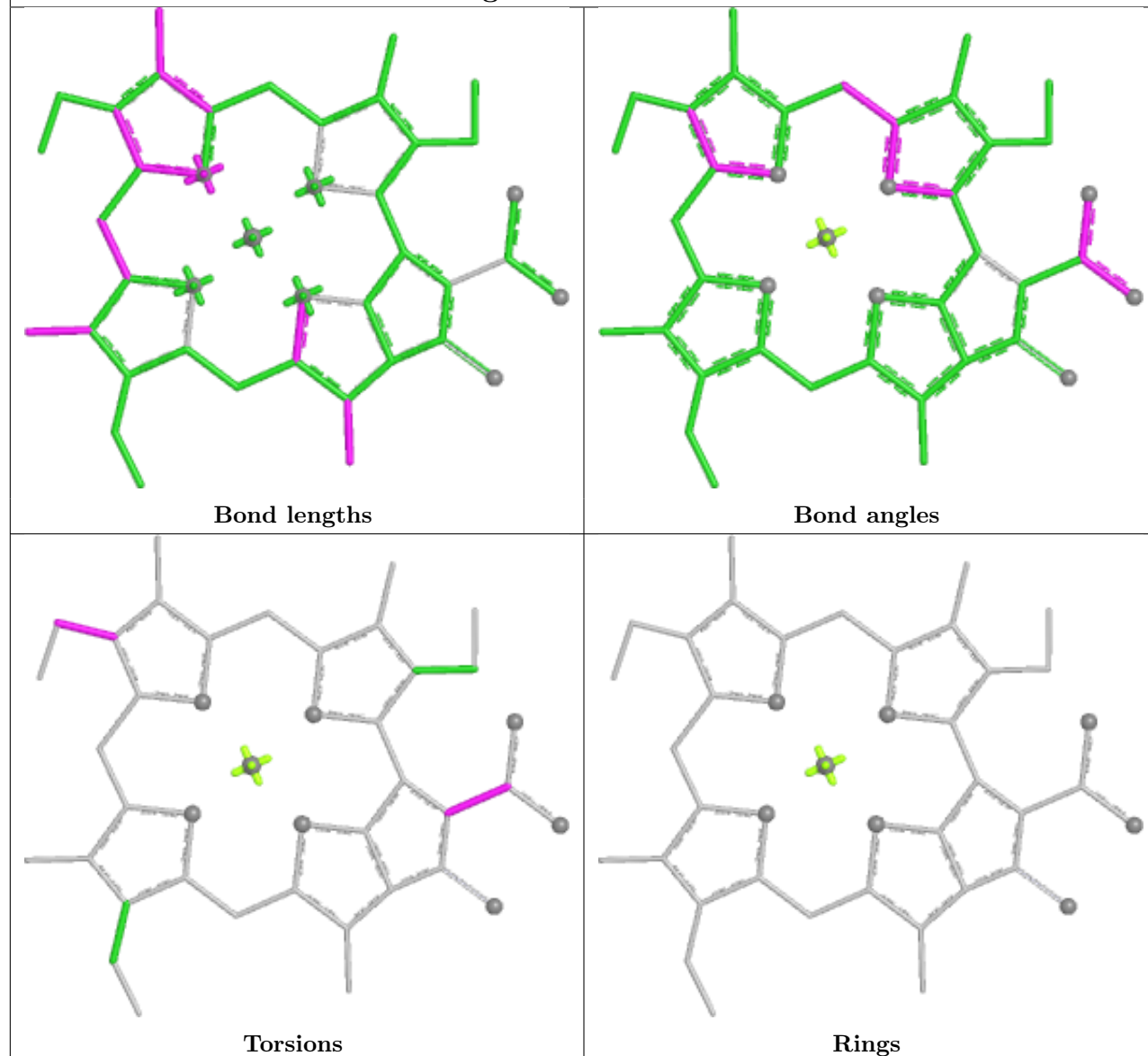
Ligand LUT z 616



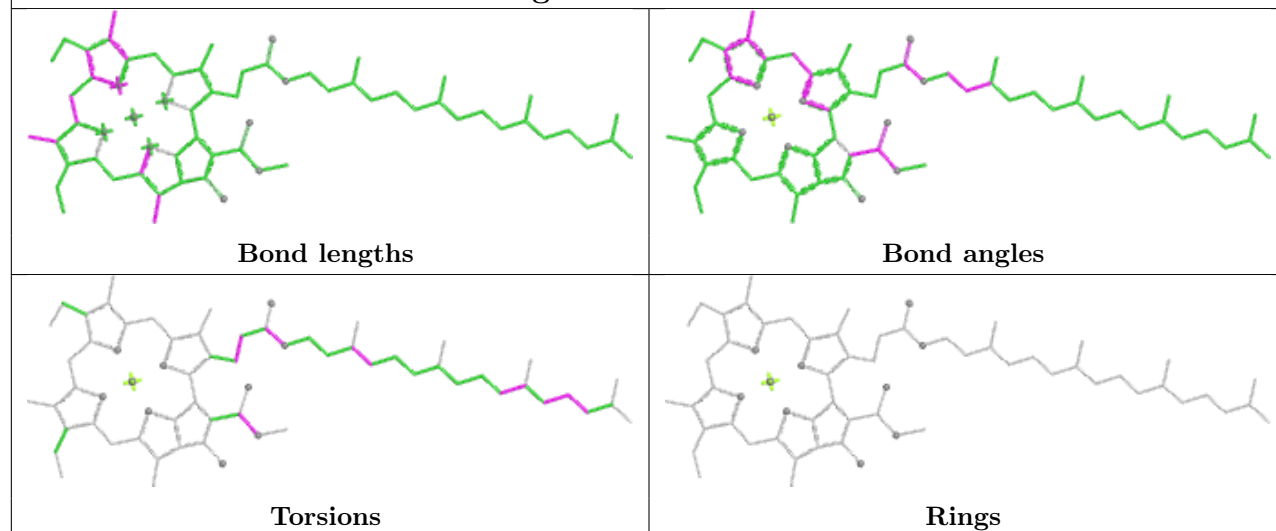
Ligand CLA B 830



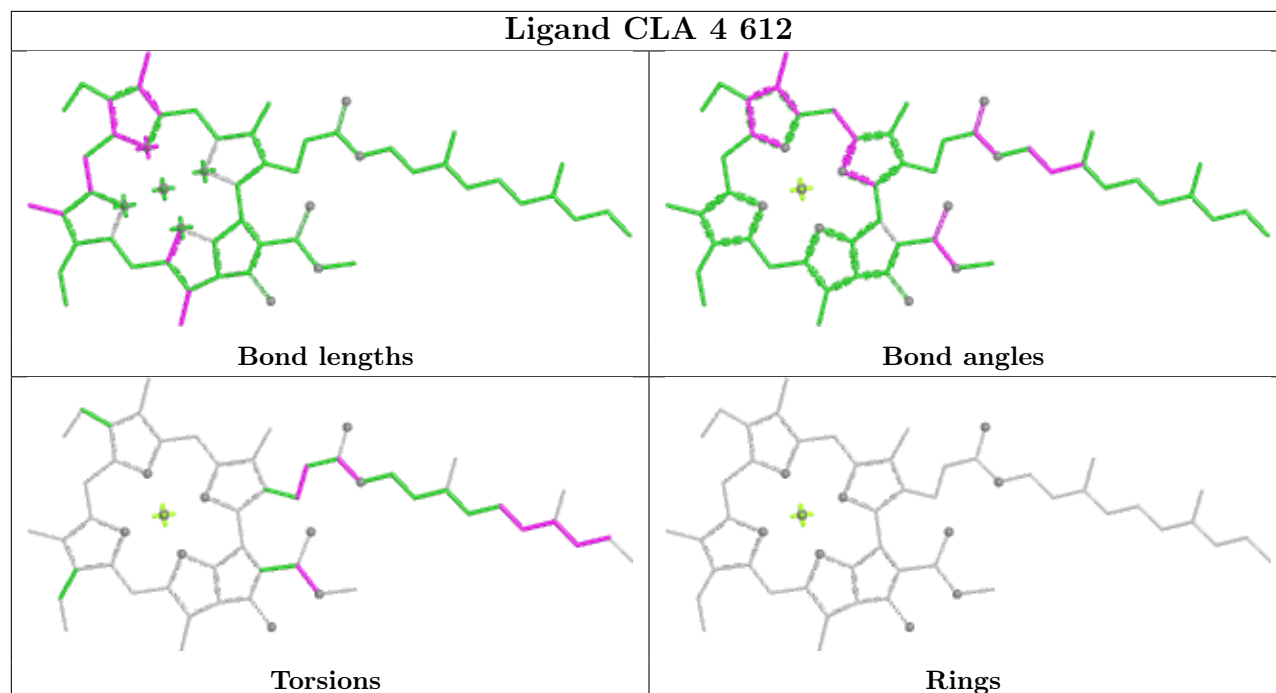
Ligand CLA 4 611



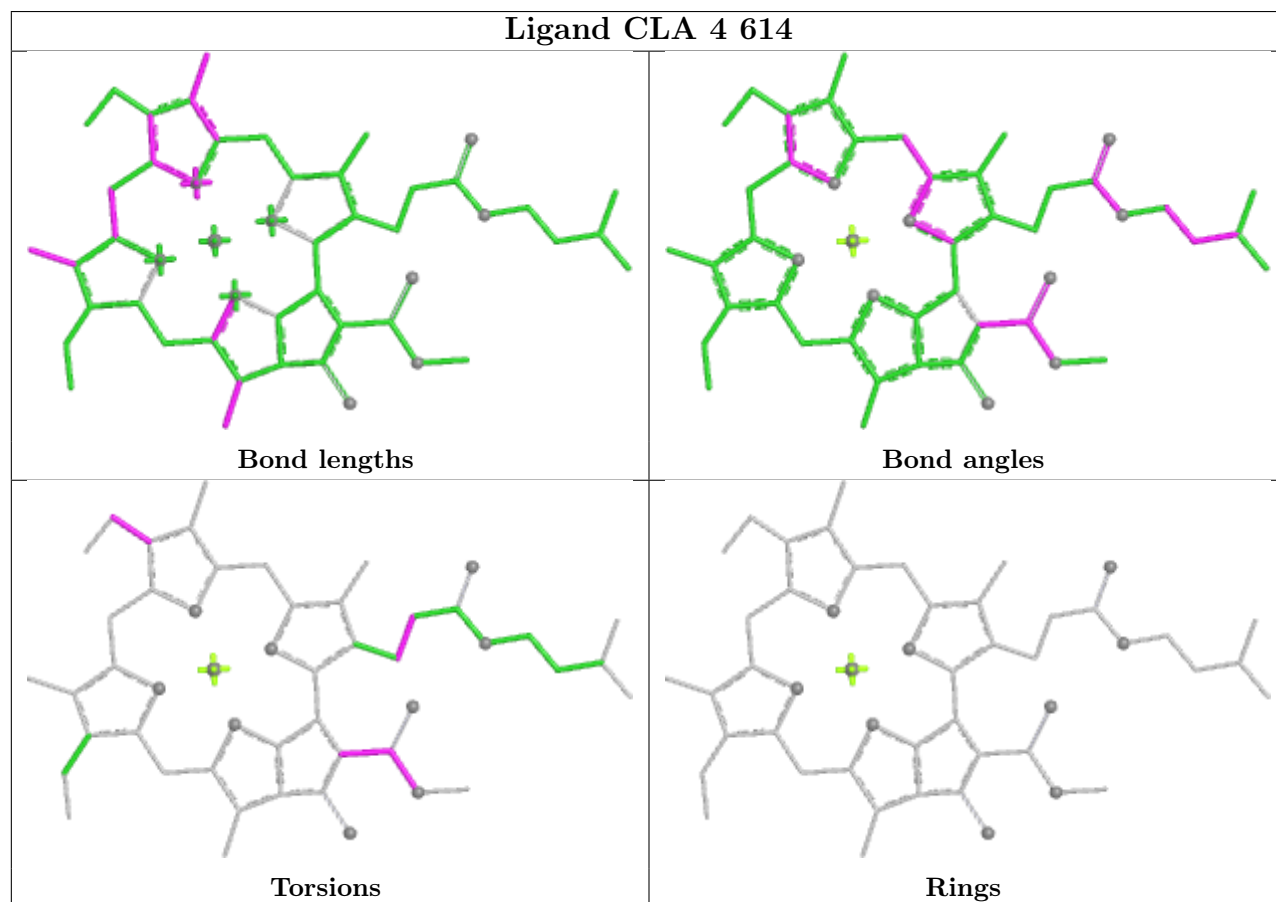
Ligand CLA B 813



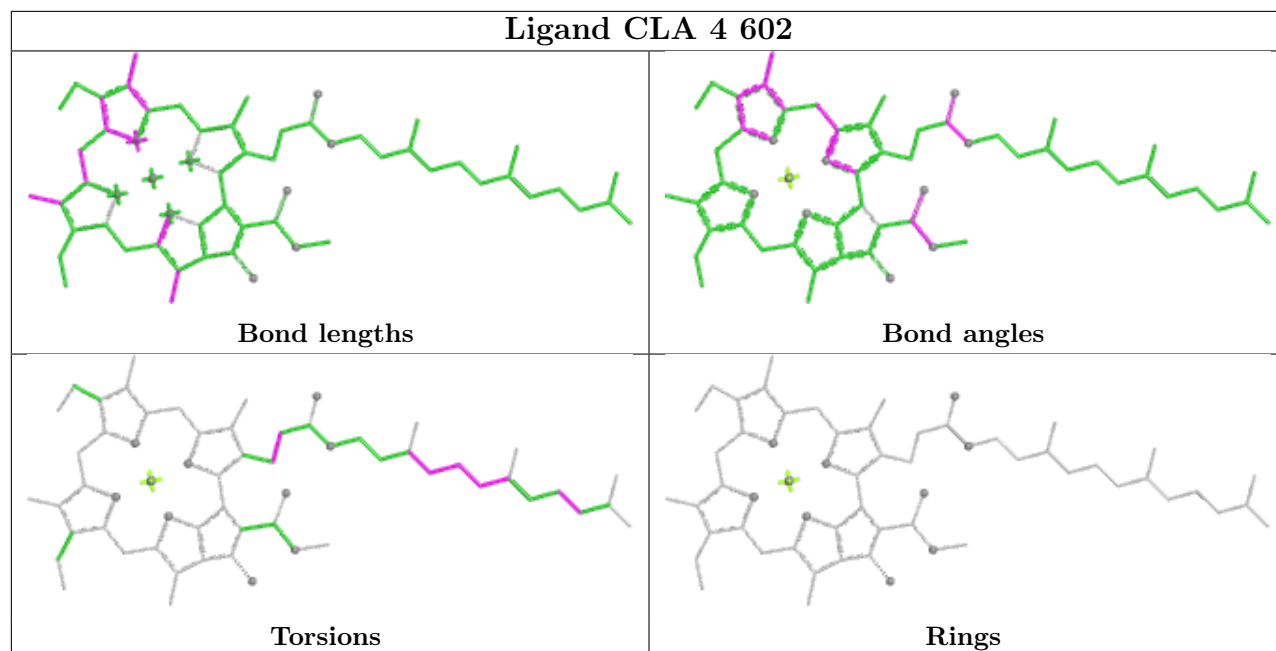
Ligand CLA 4 612



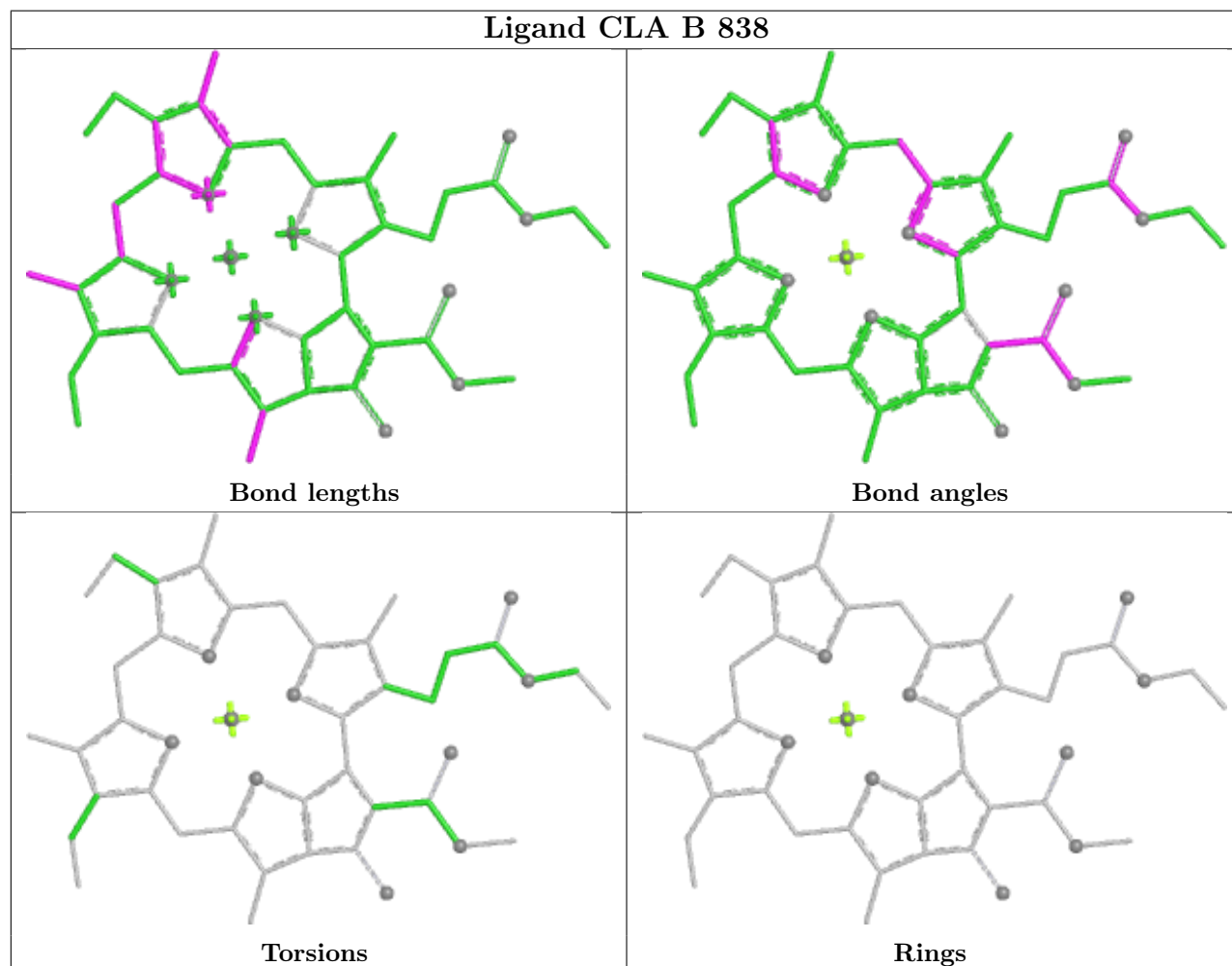
Ligand CLA 4 614

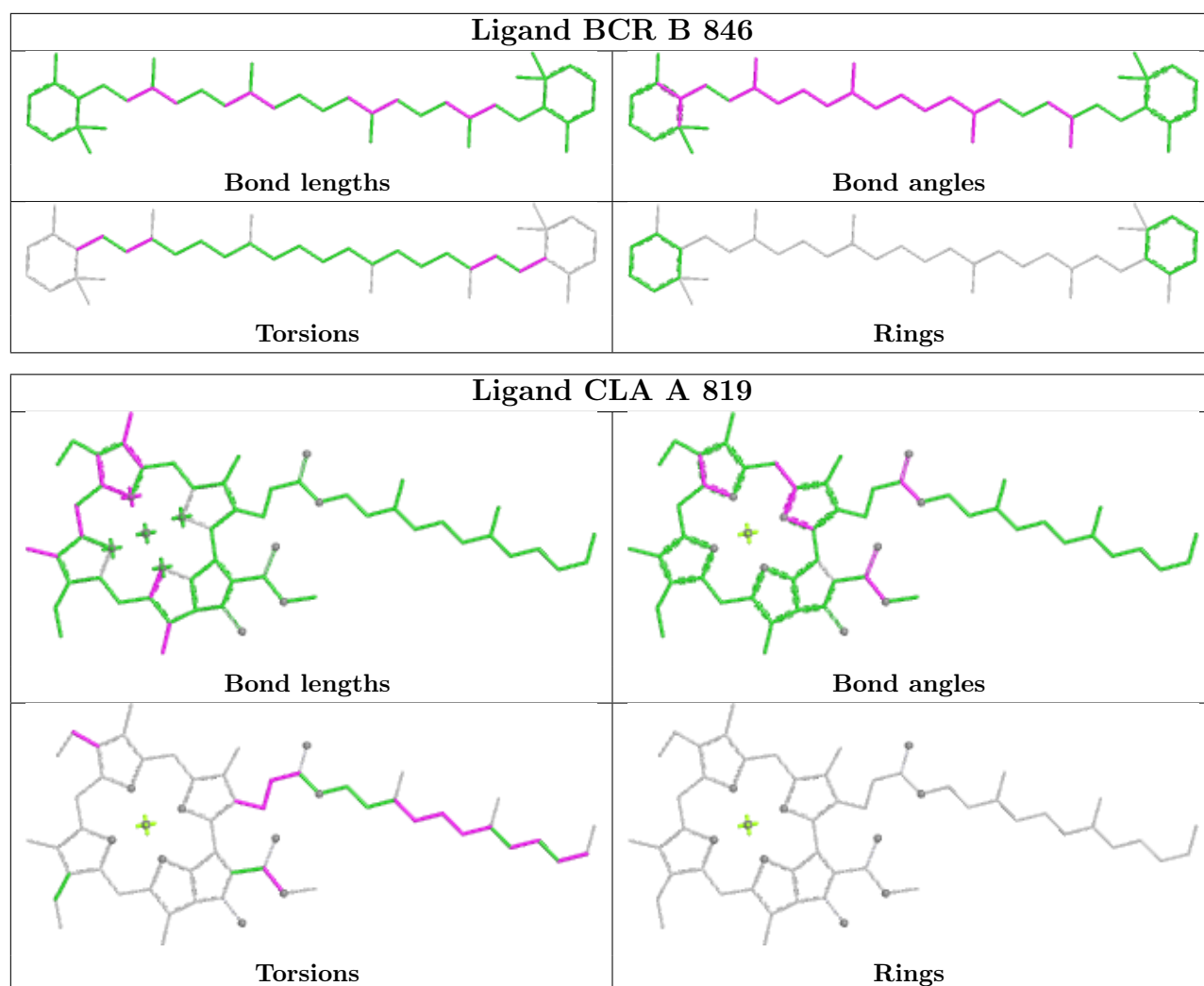


Ligand CLA 4 602

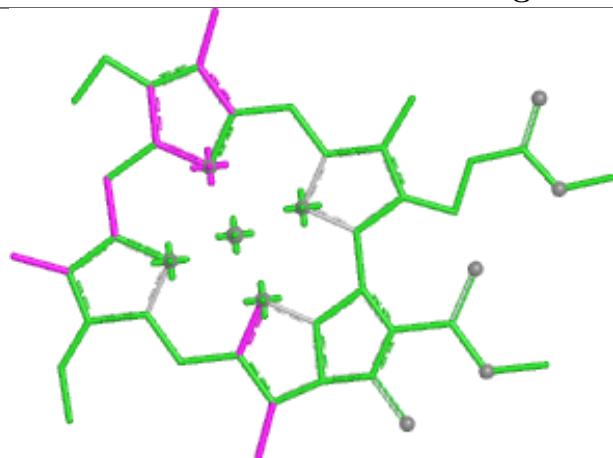


Ligand CLA B 838

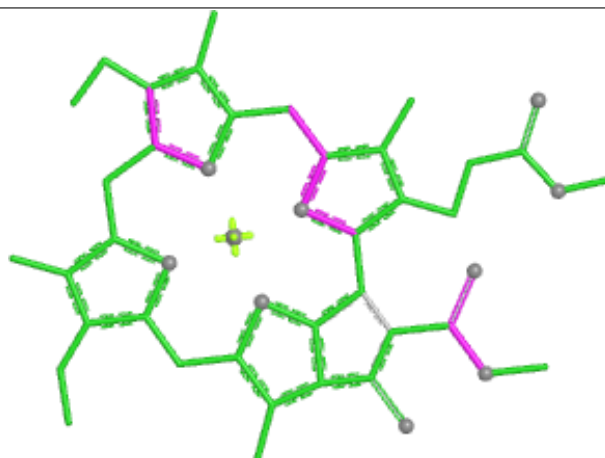




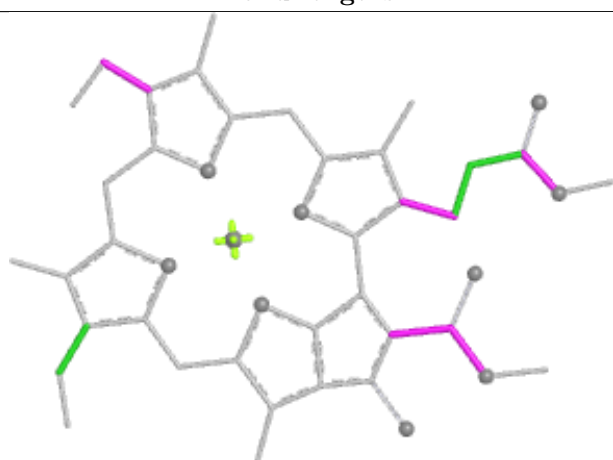
Ligand CLA K 204



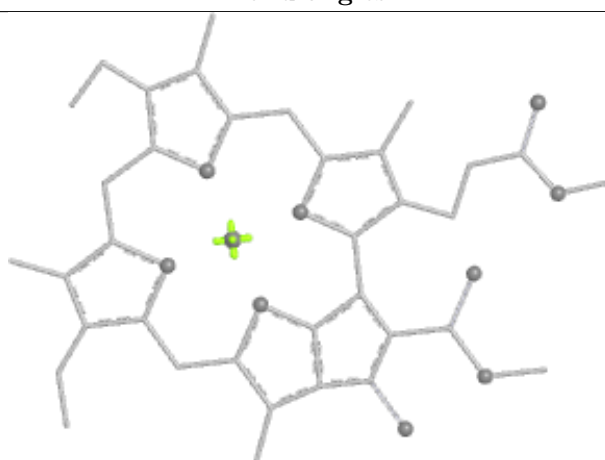
Bond lengths



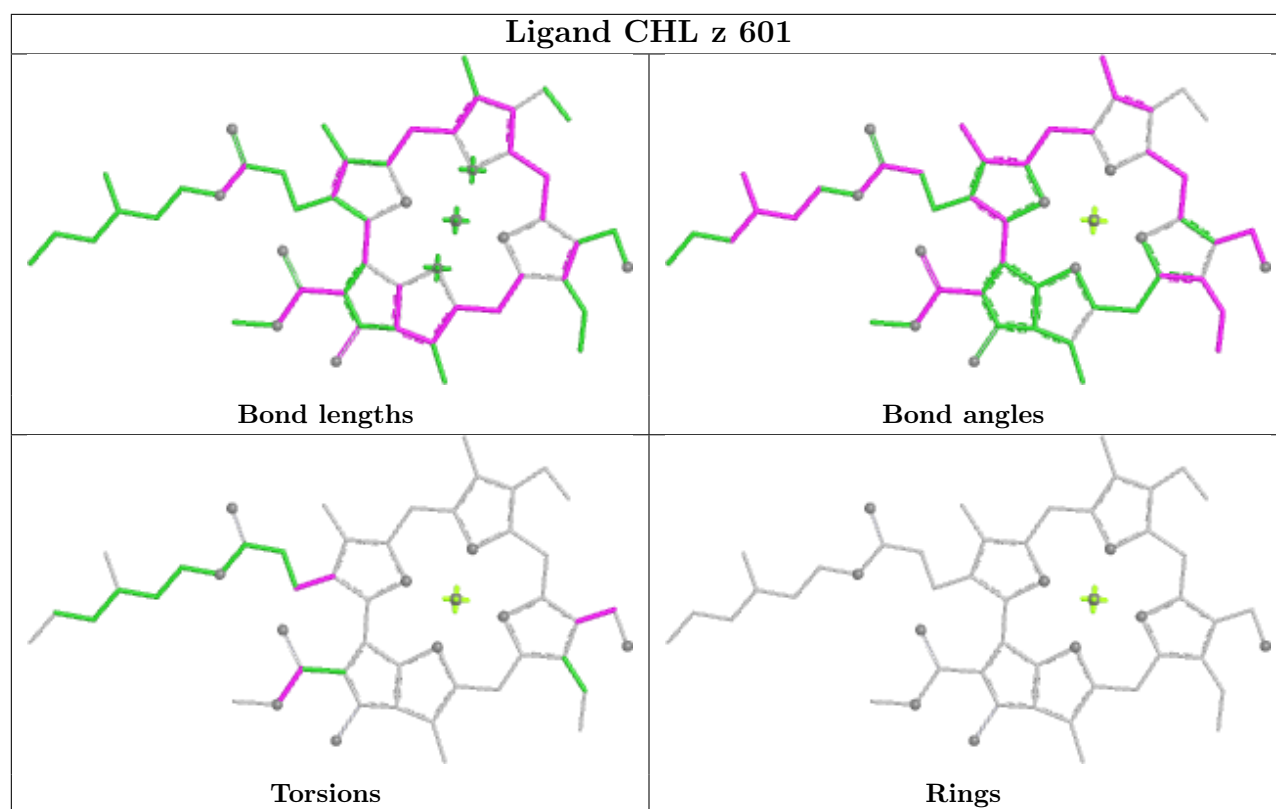
Bond angles



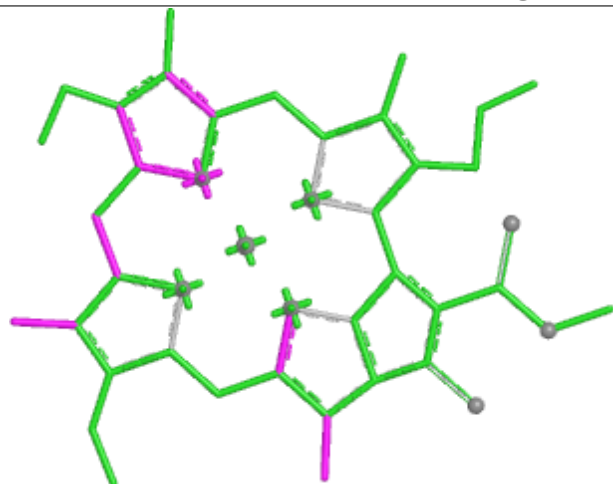
Torsions



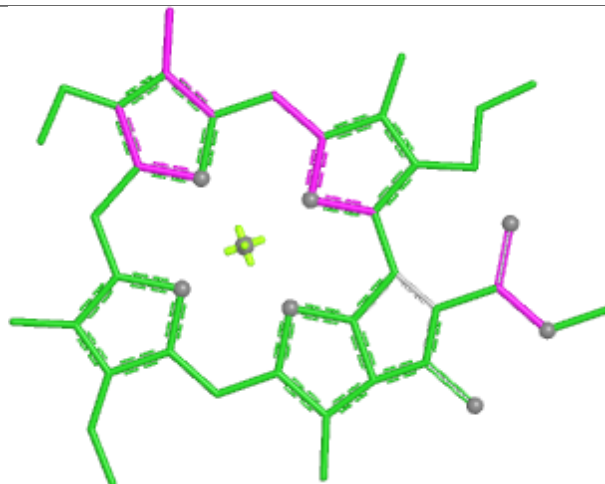
Rings



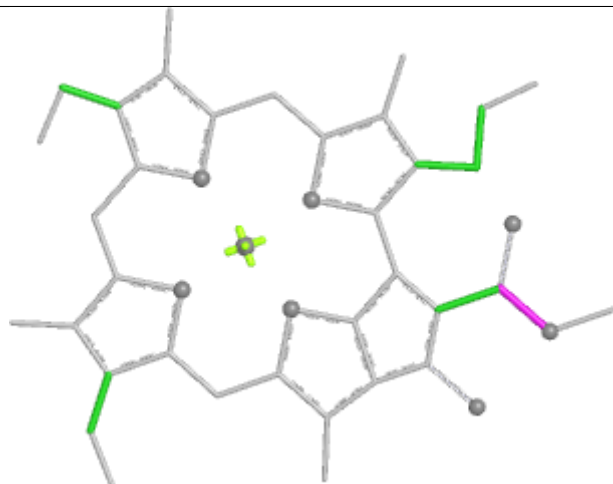
Ligand CLA B 831



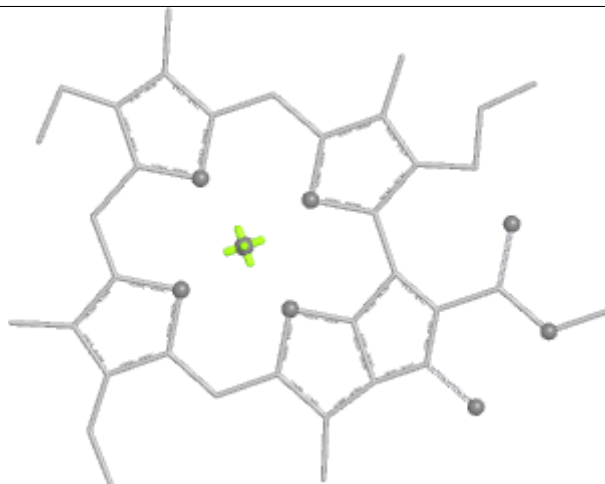
Bond lengths



Bond angles

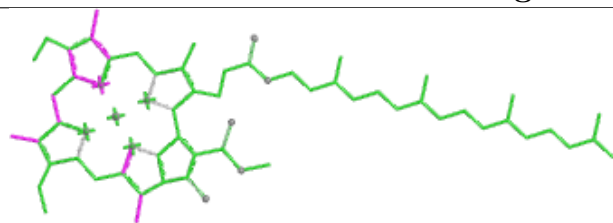


Torsions

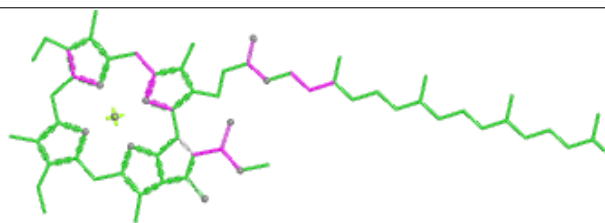


Rings

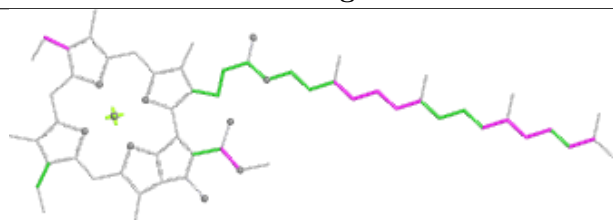
Ligand CLA B 808



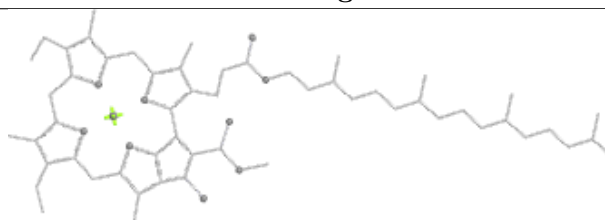
Bond lengths



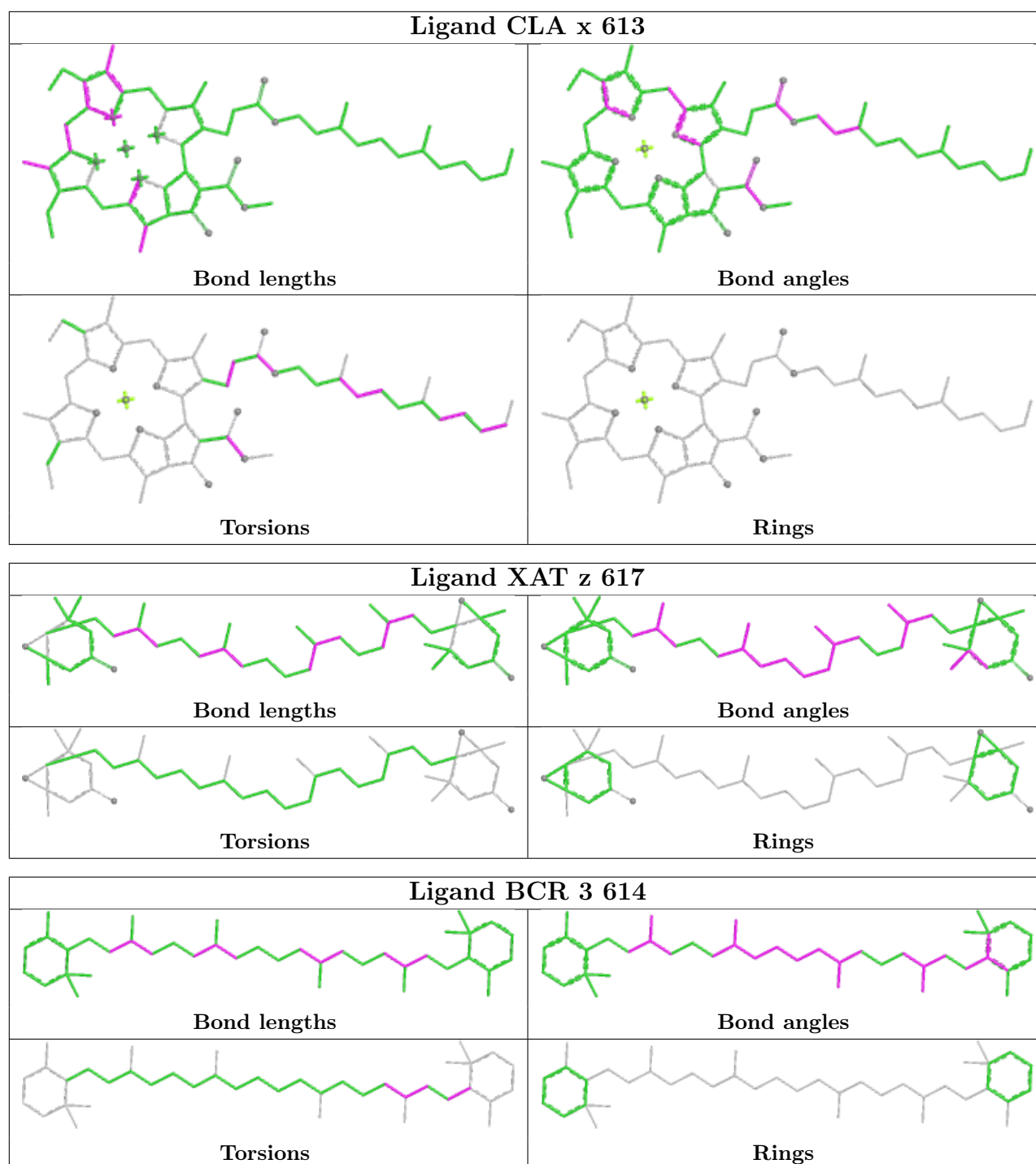
Bond angles



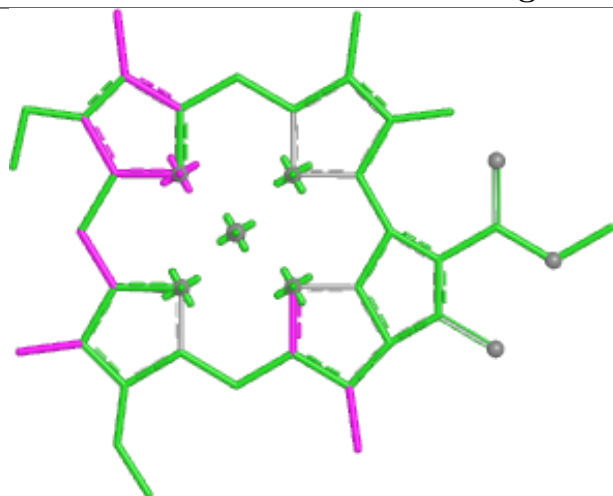
Torsions



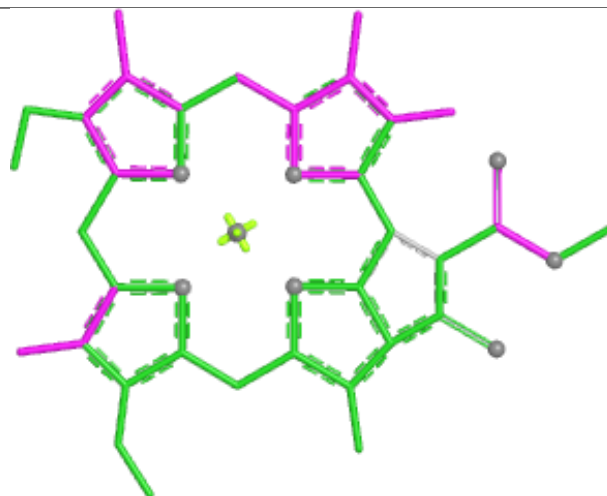
Rings



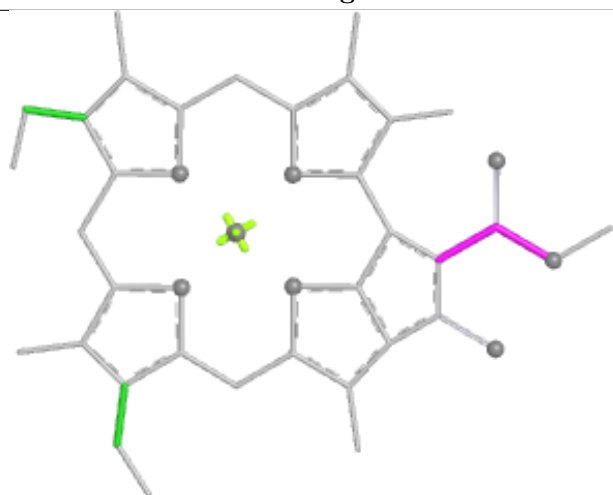
Ligand CLA 3 608



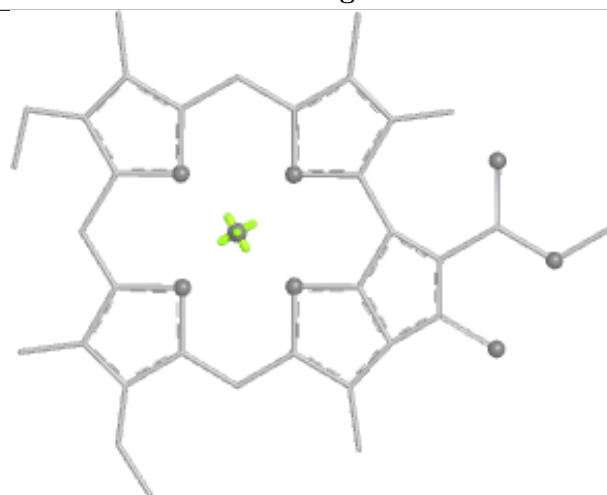
Bond lengths



Bond angles

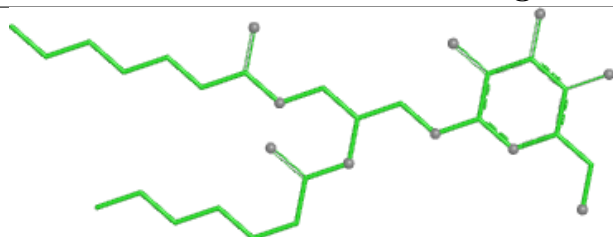


Torsions

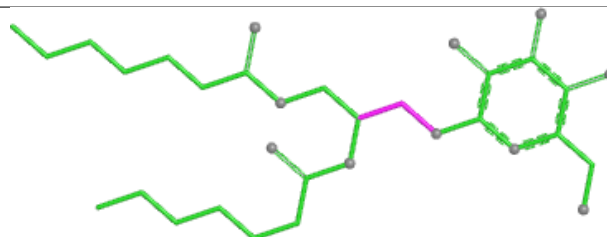


Rings

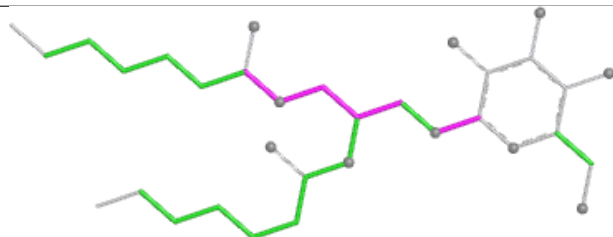
Ligand LMG 4 620



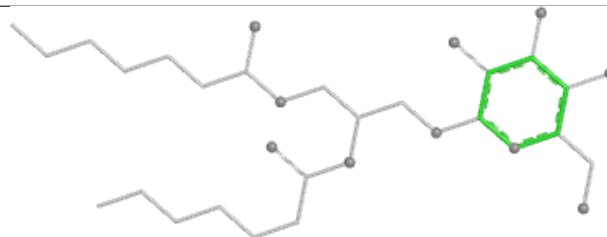
Bond lengths



Bond angles

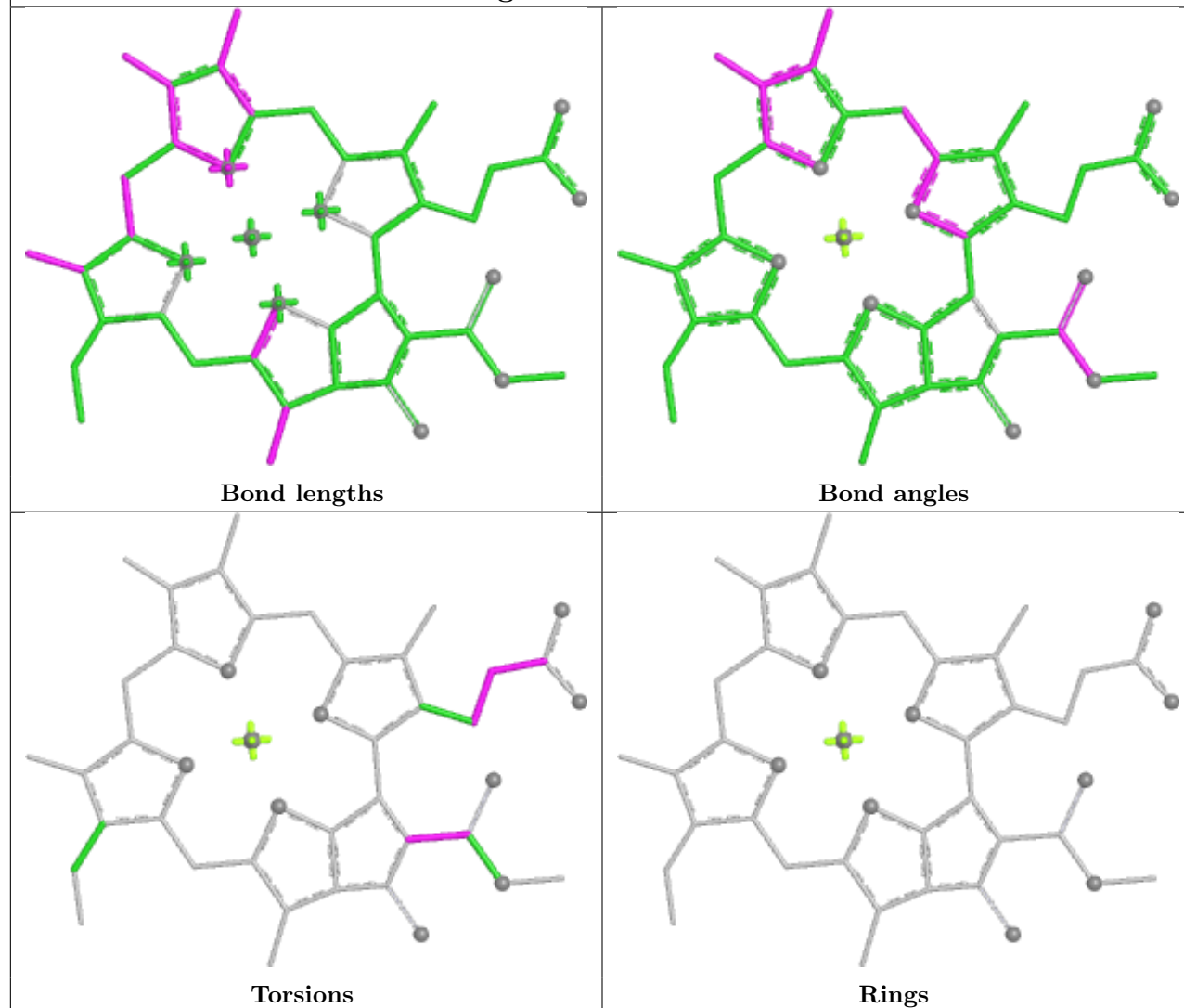


Torsions

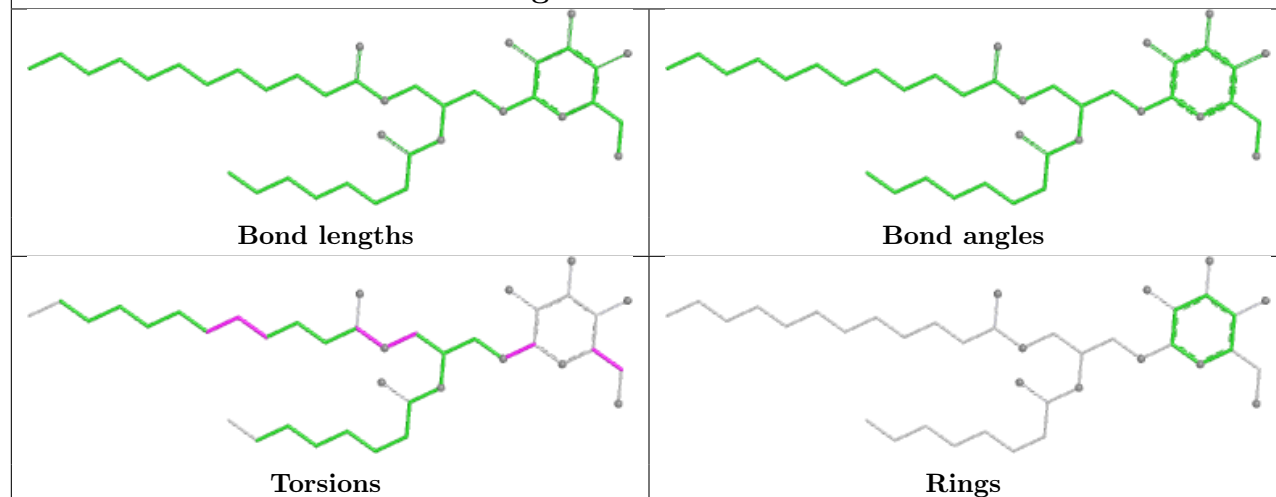


Rings

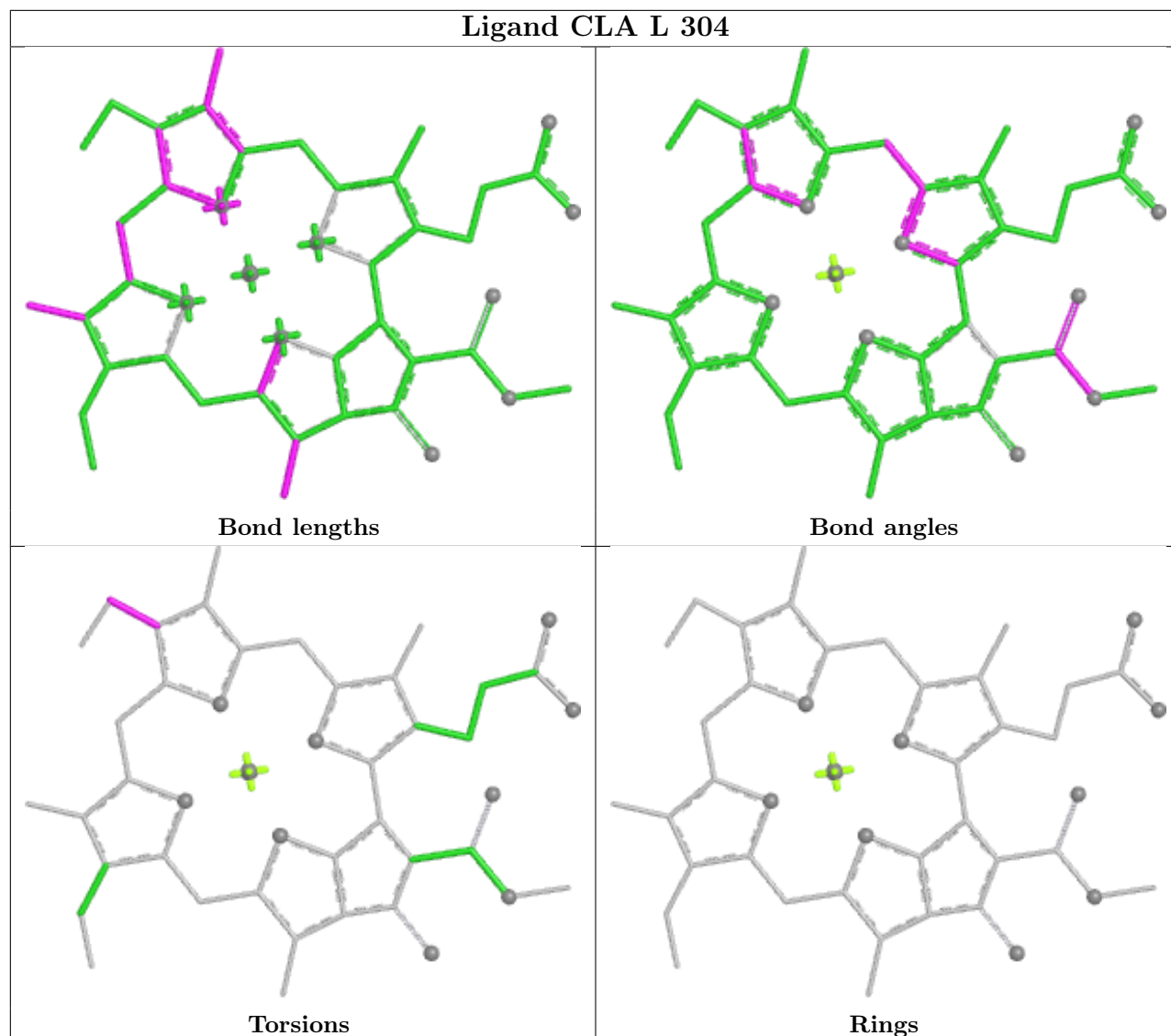
Ligand CLA 4 603



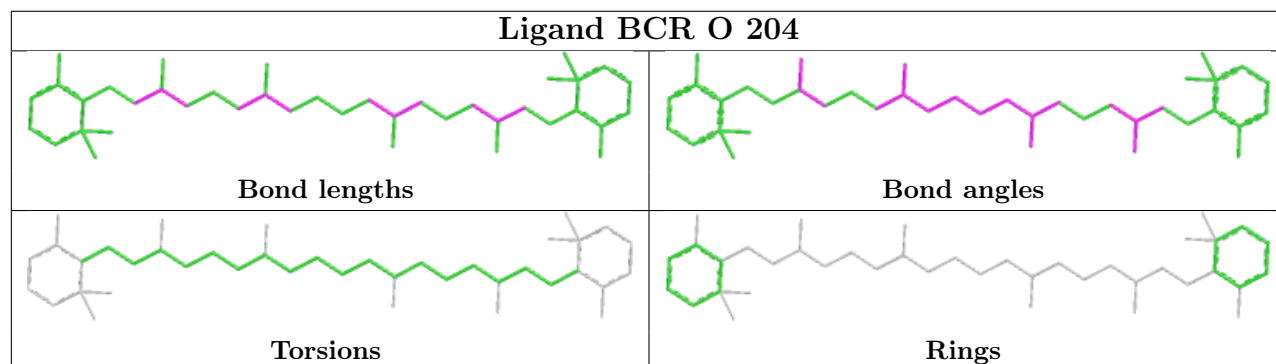
Ligand LMG 4 619

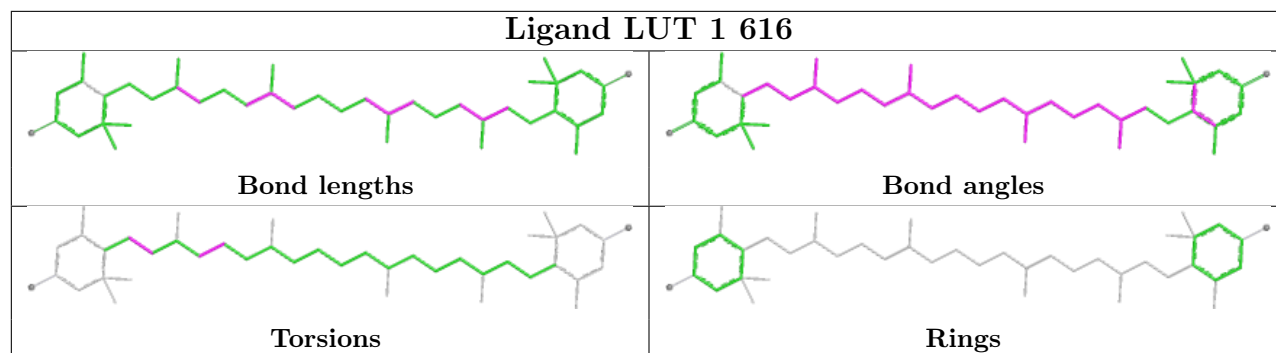
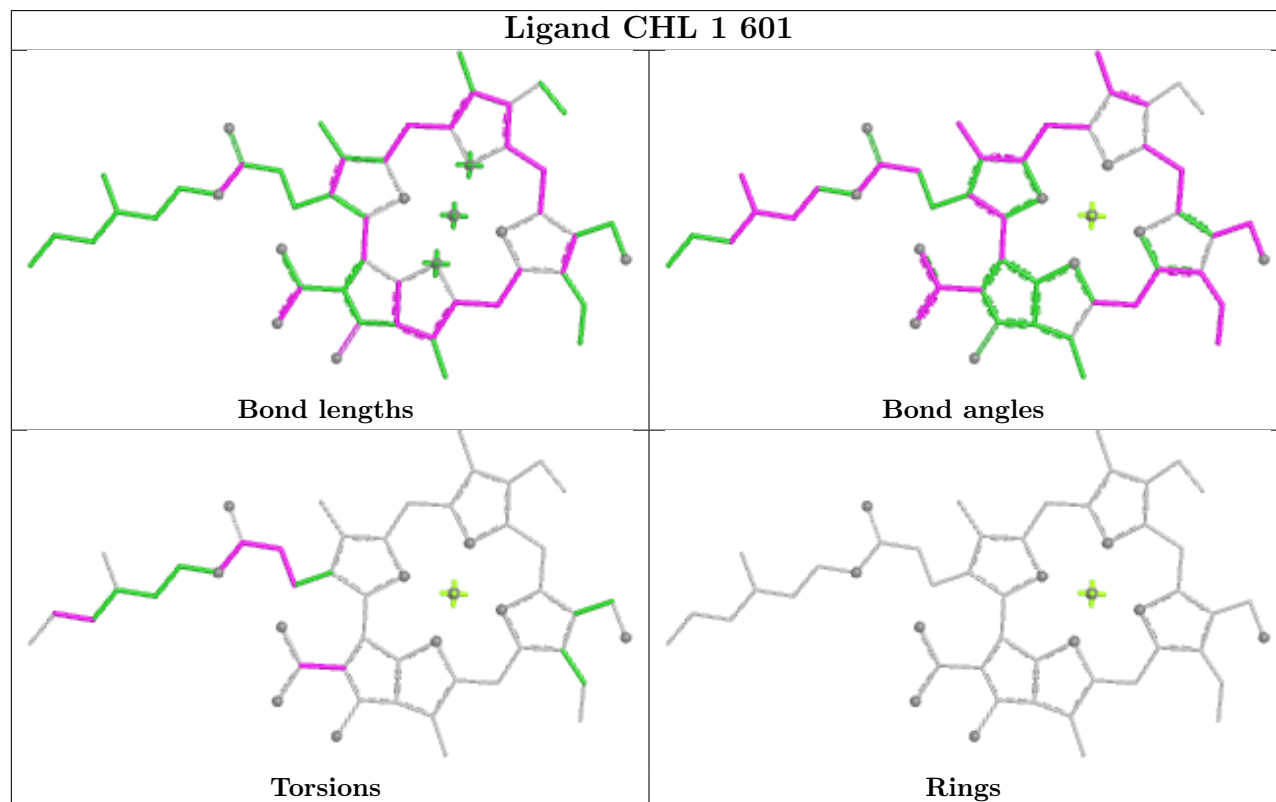


Ligand CLA L 304

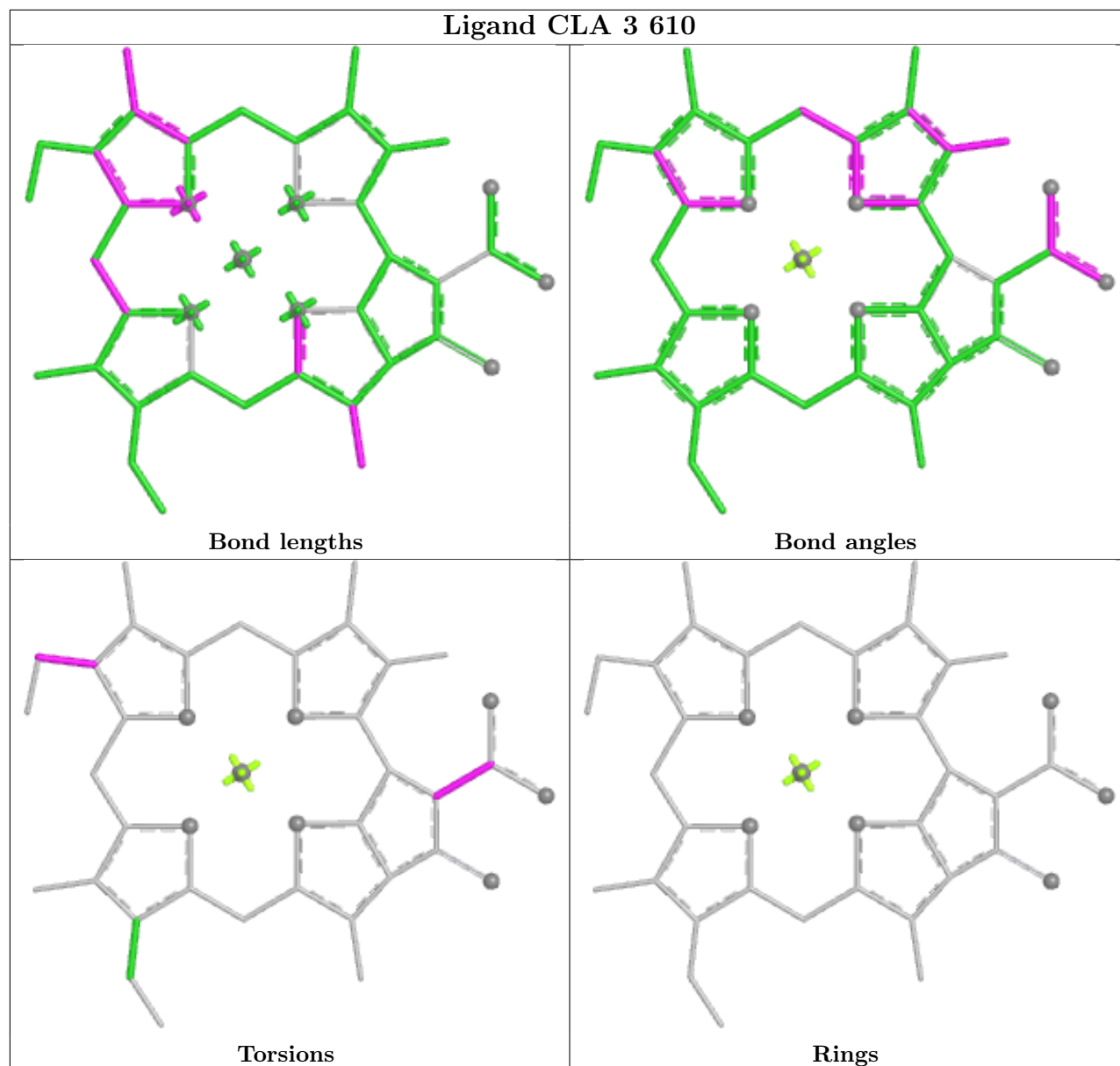


Ligand BCR O 204

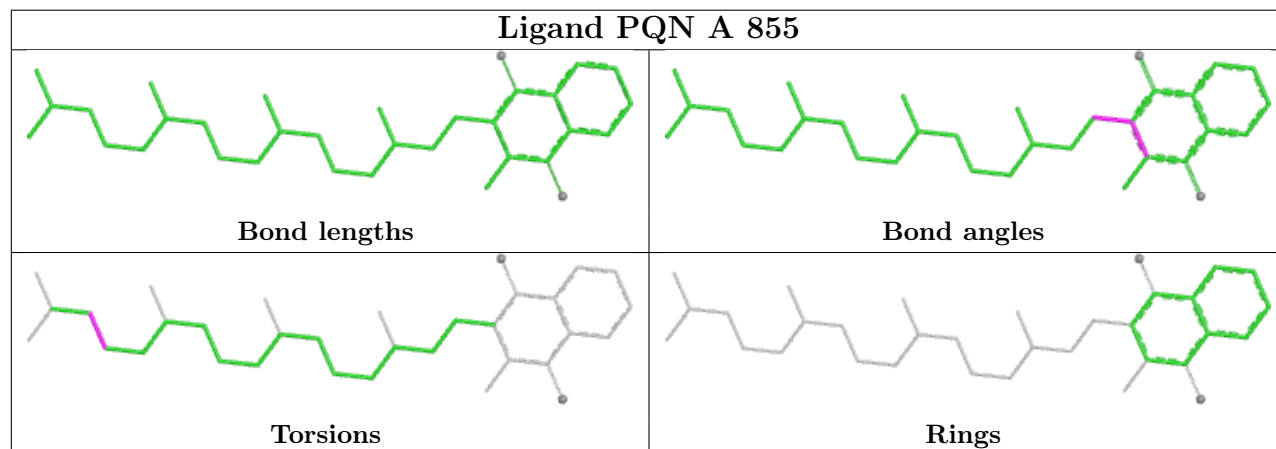


Ligand LUT 1 616**Ligand CHL 1 601**

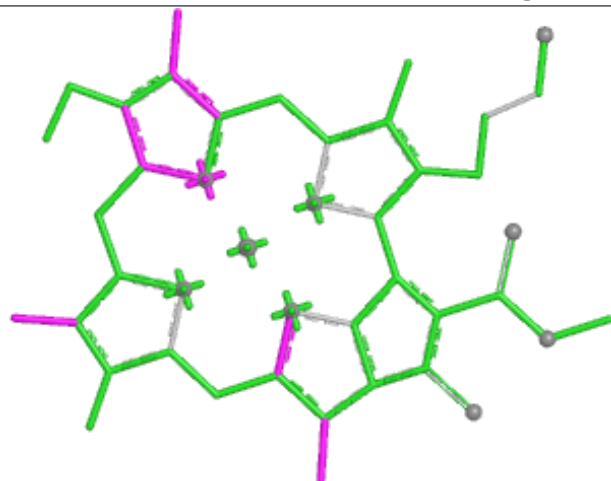
Ligand CLA 3 610



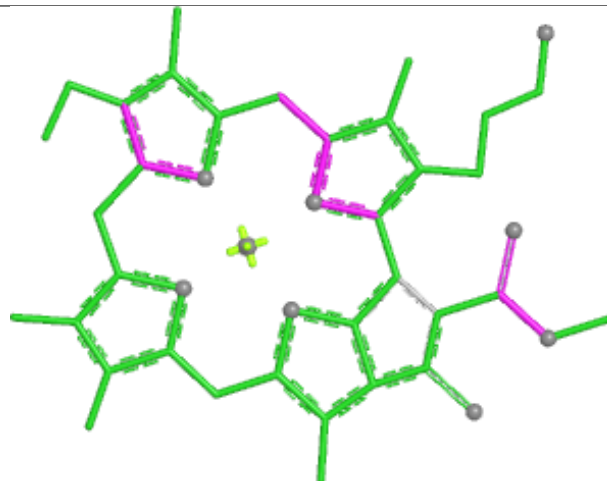
Ligand PQN A 855



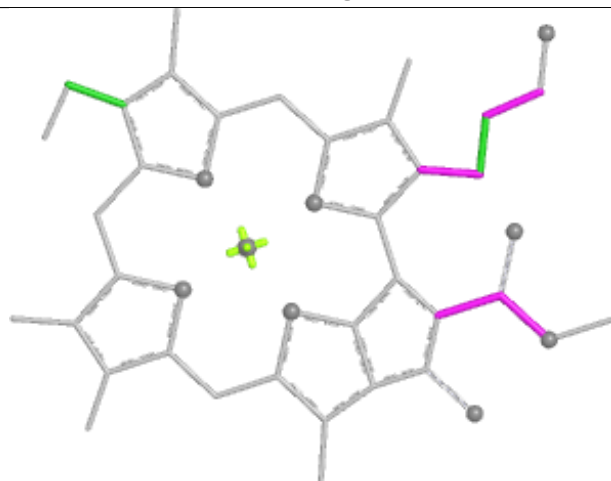
Ligand CLA 2 604



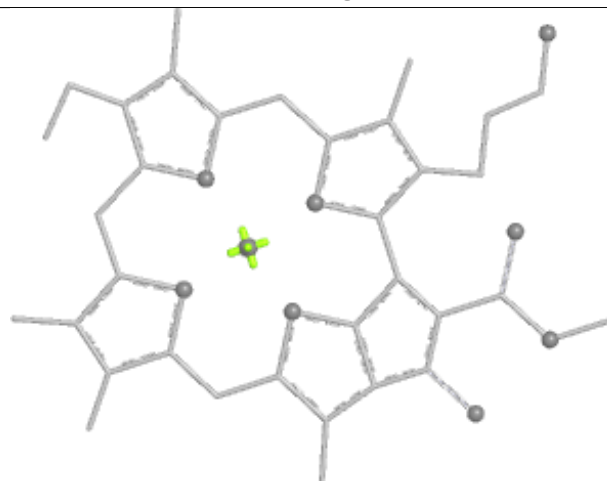
Bond lengths



Bond angles

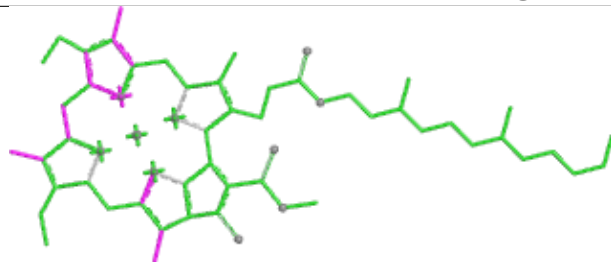


Torsions

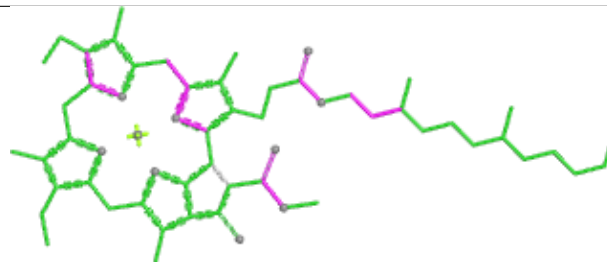


Rings

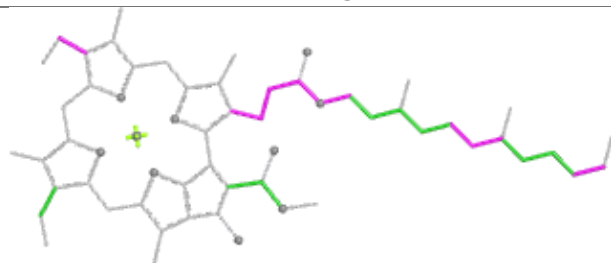
Ligand CLA B 817



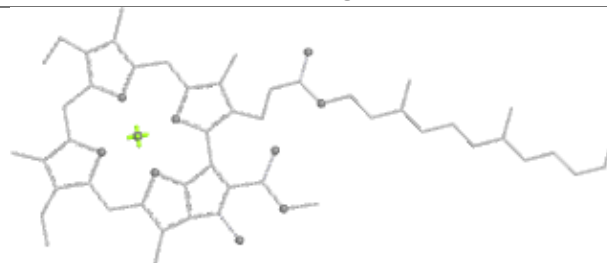
Bond lengths



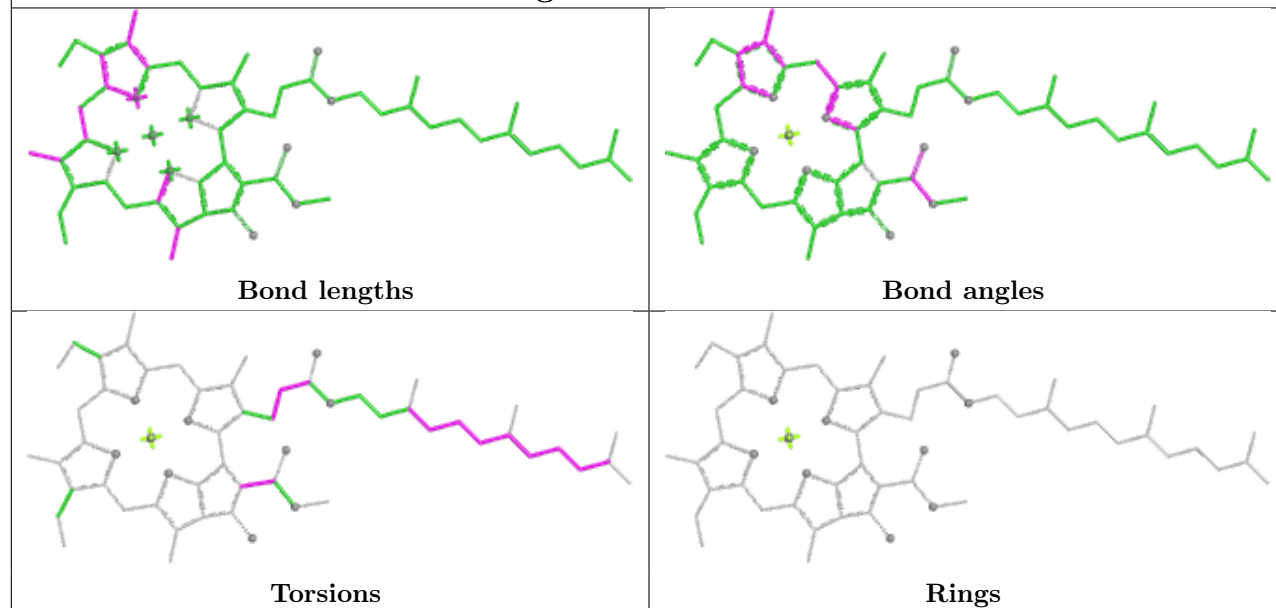
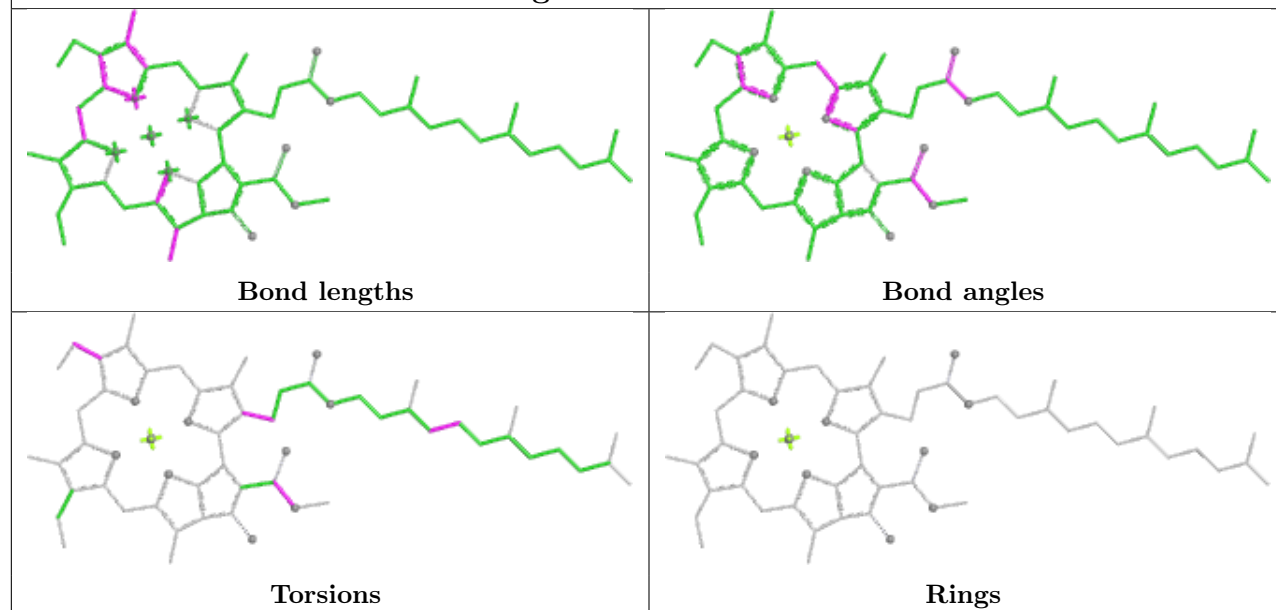
Bond angles



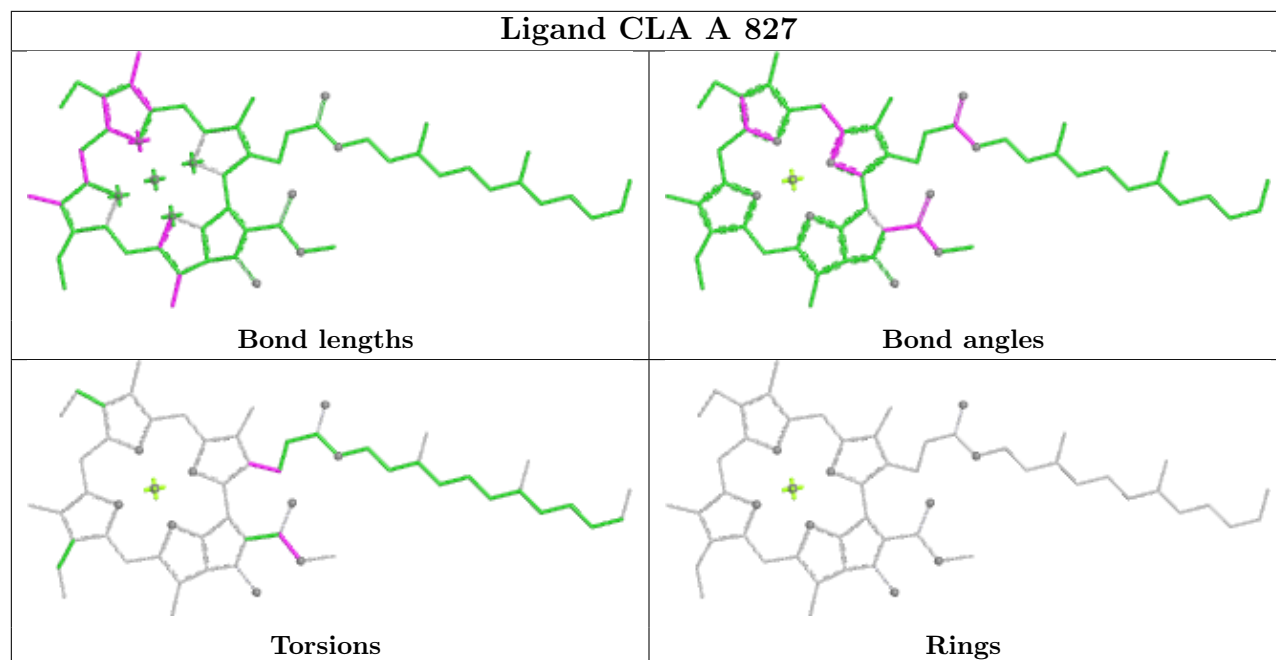
Torsions



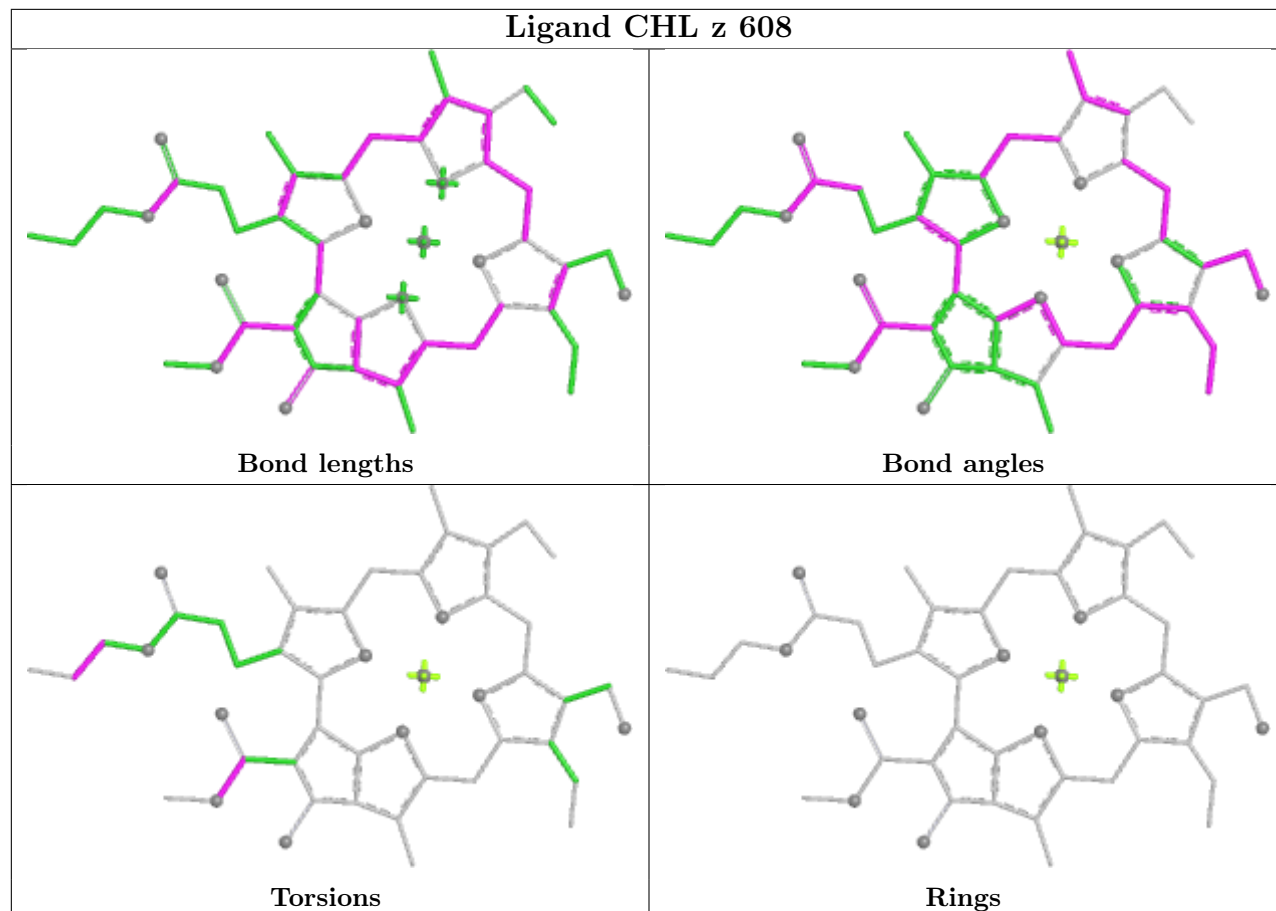
Rings

Ligand CLA 3 601**Ligand CLA B 834**

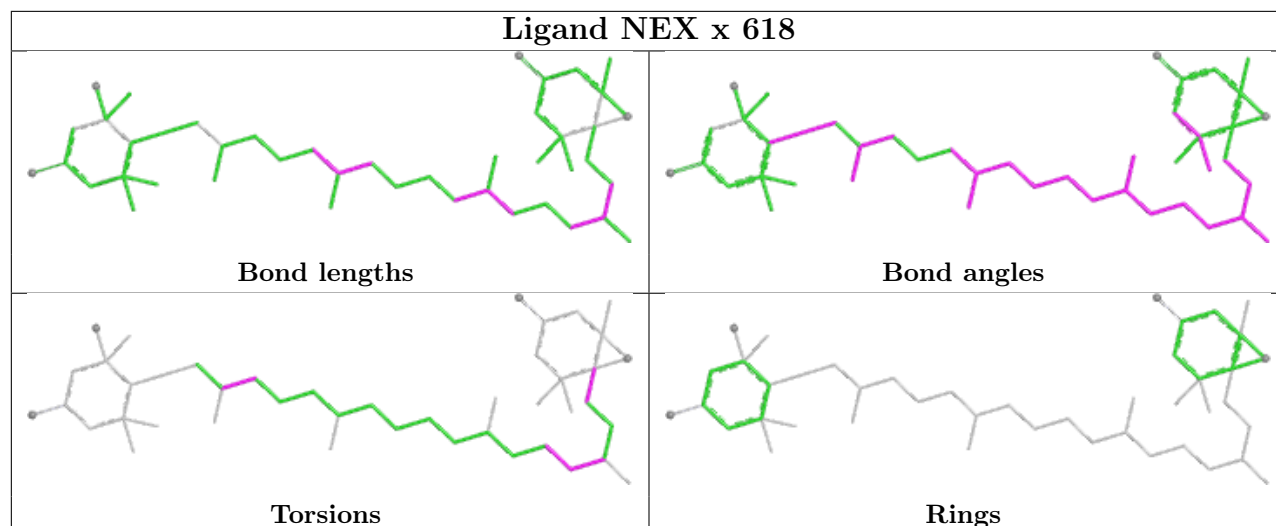
Ligand CLA A 827



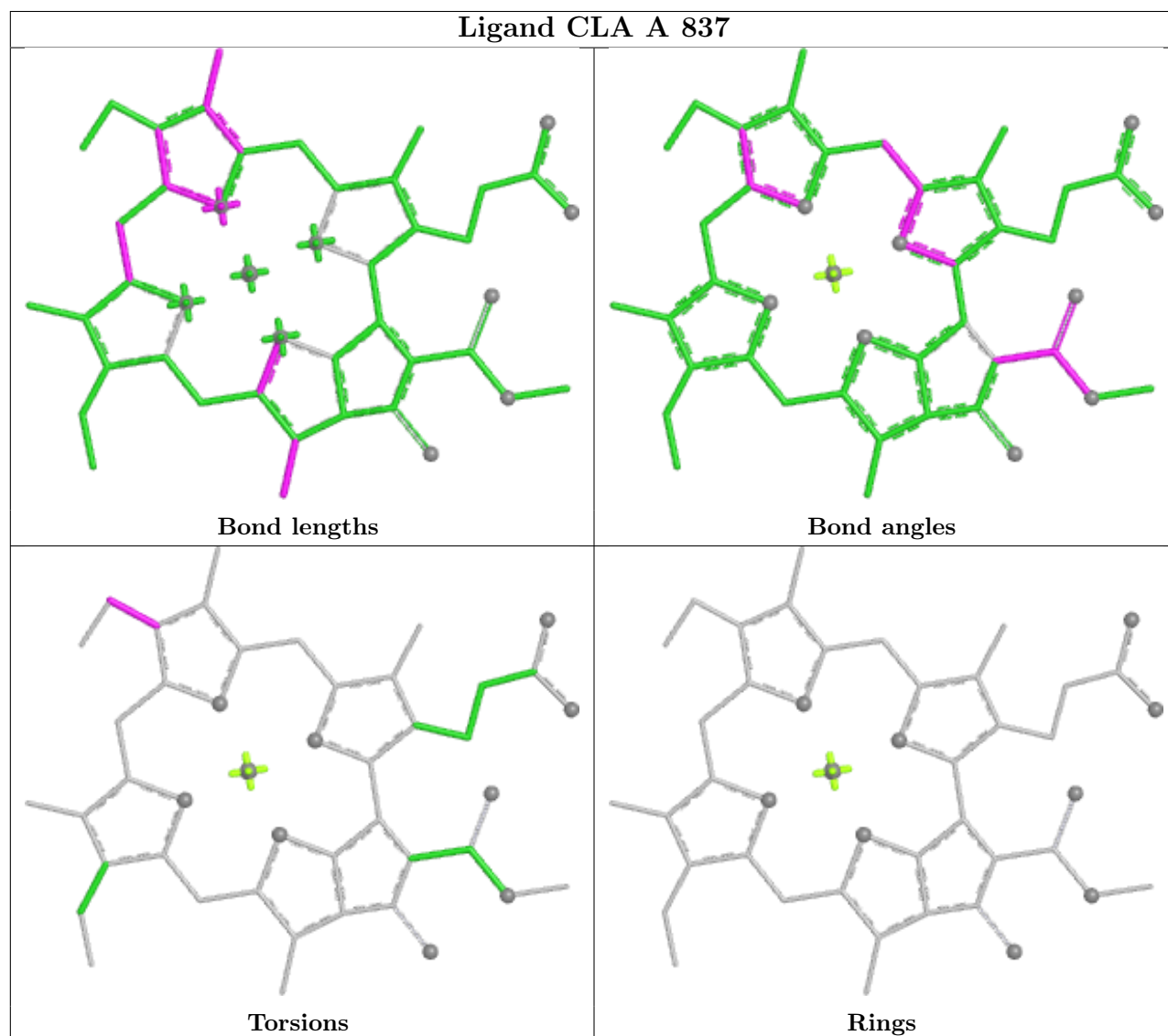
Ligand CHL z 608



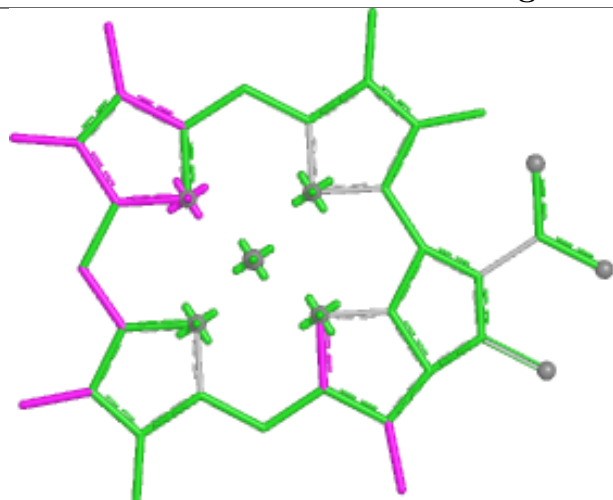
Ligand NEX x 618



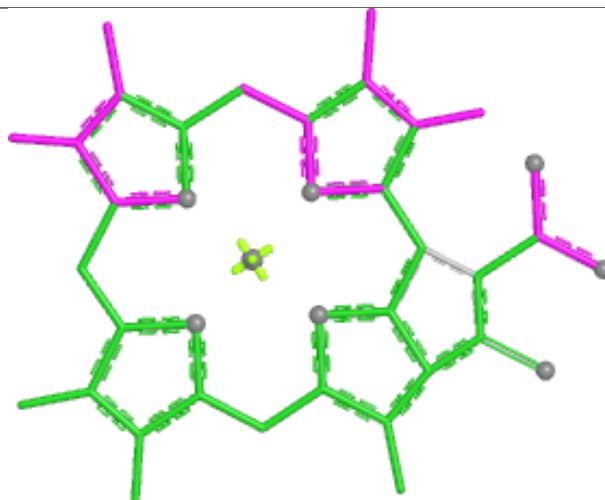
Ligand CLA A 837



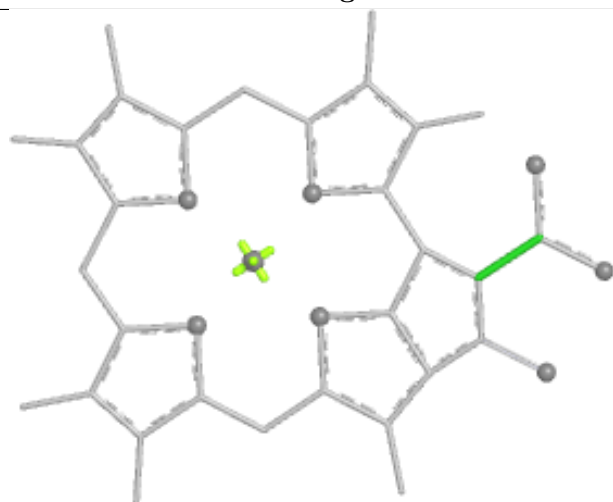
Ligand CLA 1 613



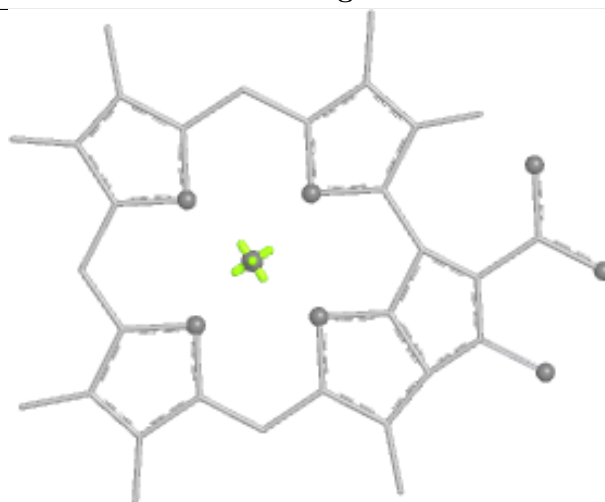
Bond lengths



Bond angles

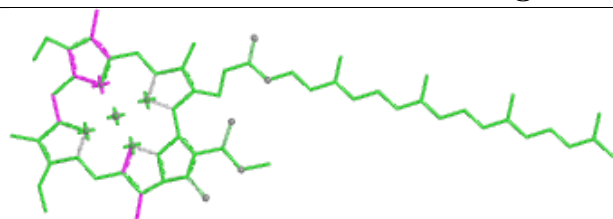


Torsions

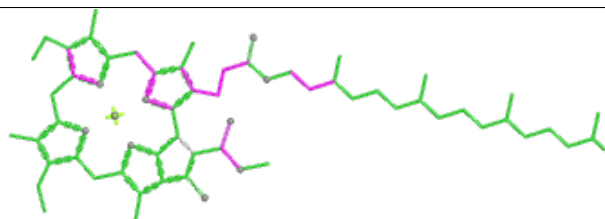


Rings

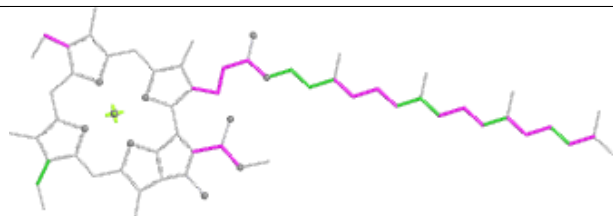
Ligand CLA B 822



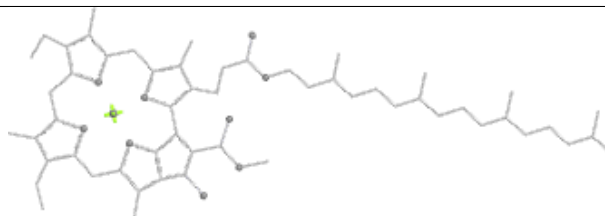
Bond lengths



Bond angles

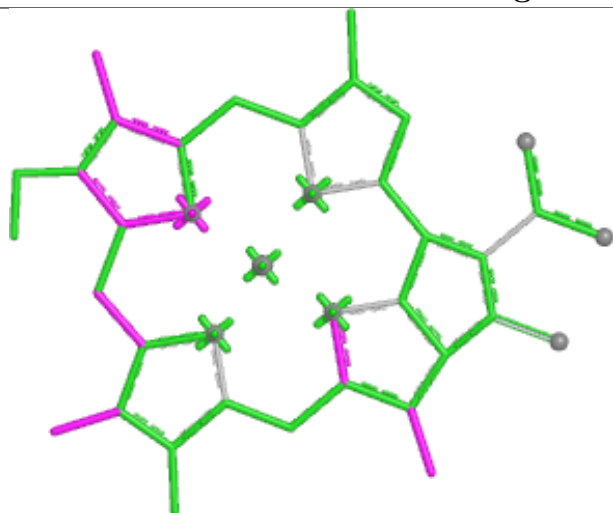


Torsions

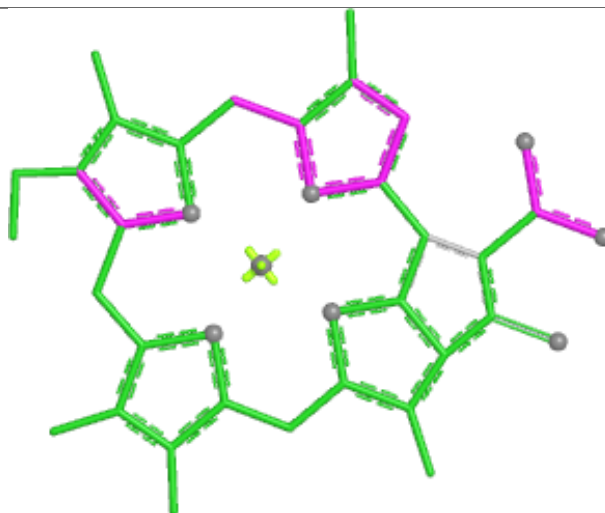


Rings

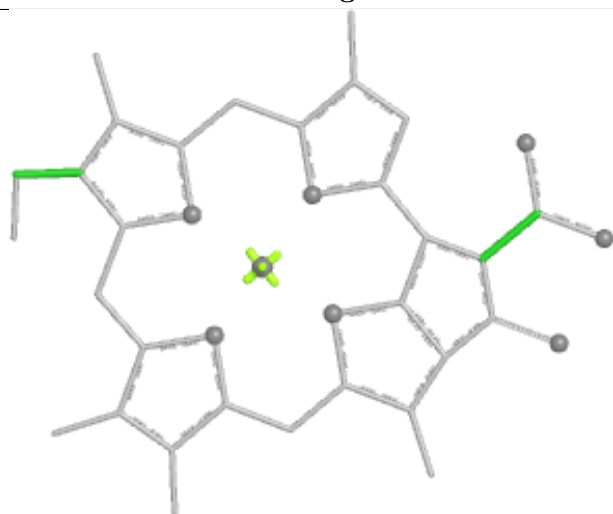
Ligand CLA O 202



Bond lengths



Bond angles

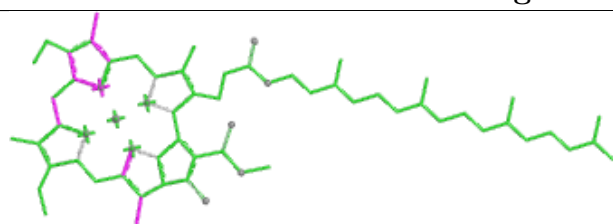


Torsions

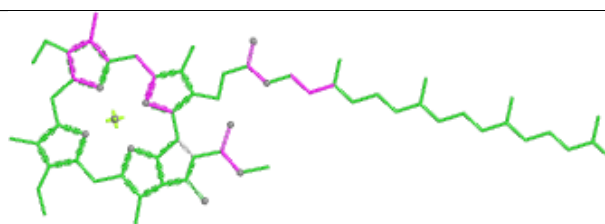


Rings

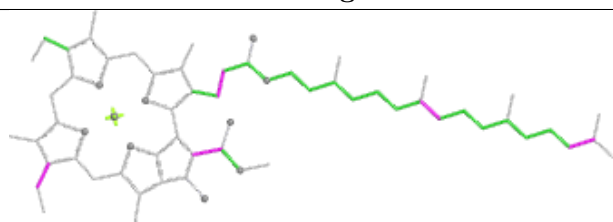
Ligand CLA A 809



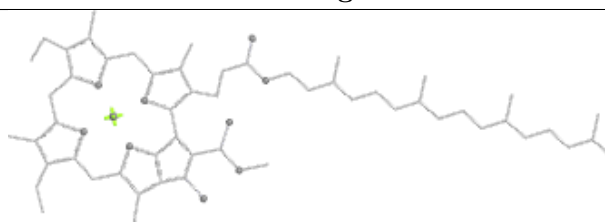
Bond lengths



Bond angles

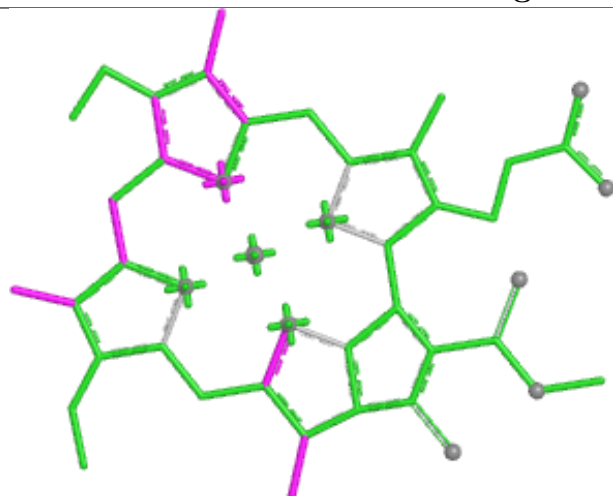


Torsions

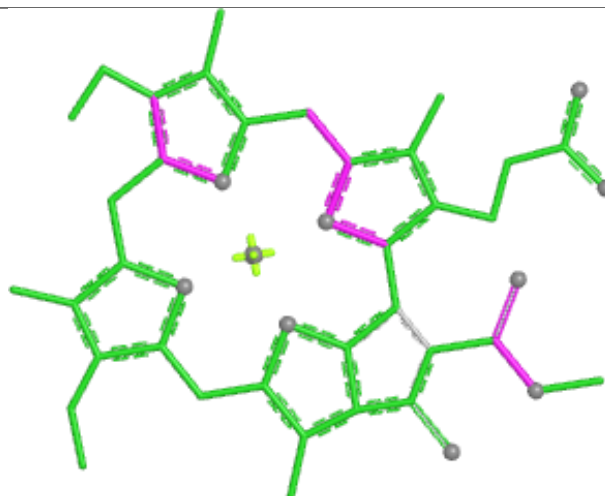


Rings

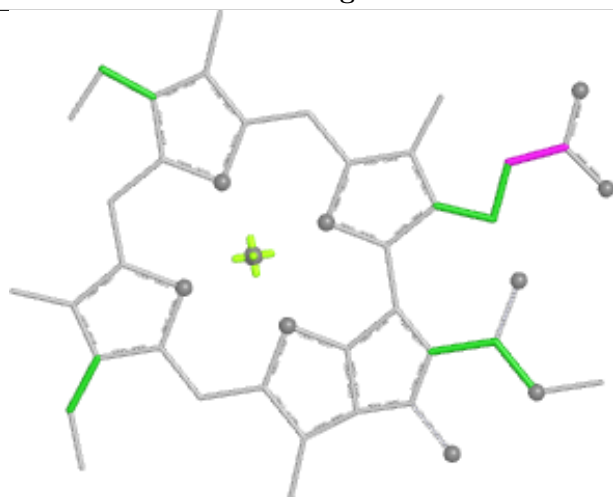
Ligand CLA A 821



Bond lengths



Bond angles

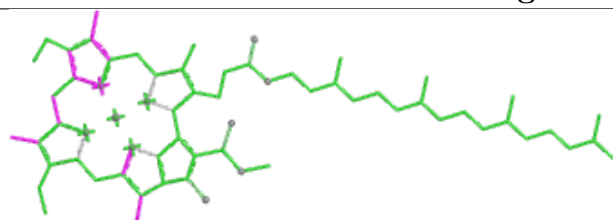


Torsions

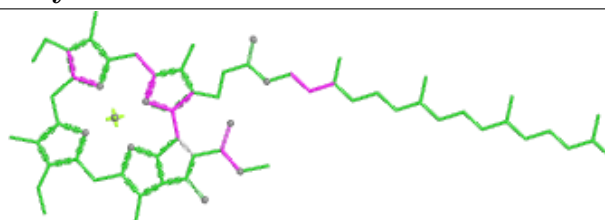


Rings

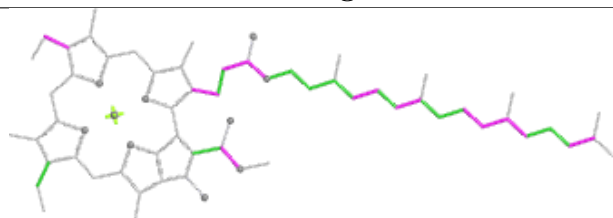
Ligand CLA y 614



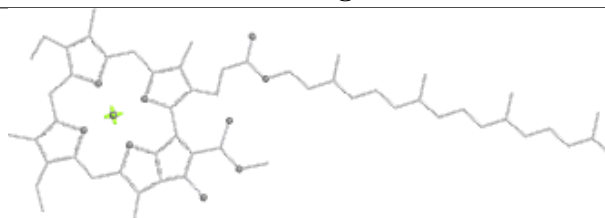
Bond lengths



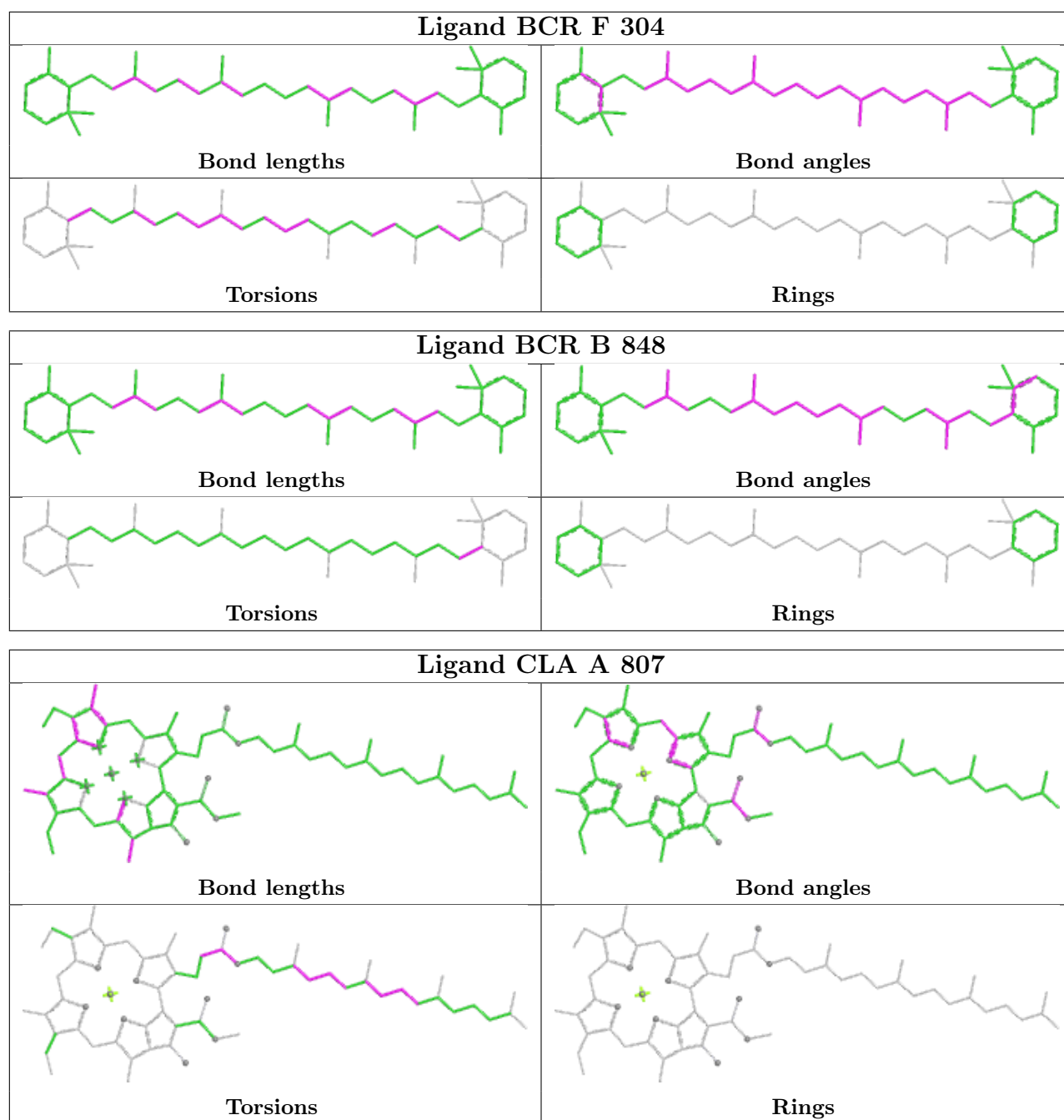
Bond angles



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.

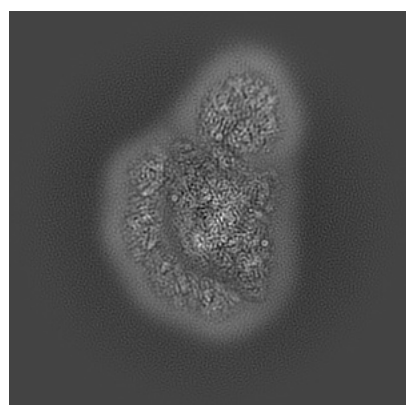
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-36021. These allow visual inspection of the internal detail of the map and identification of artifacts.

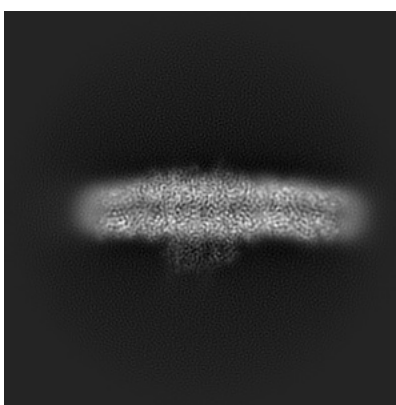
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

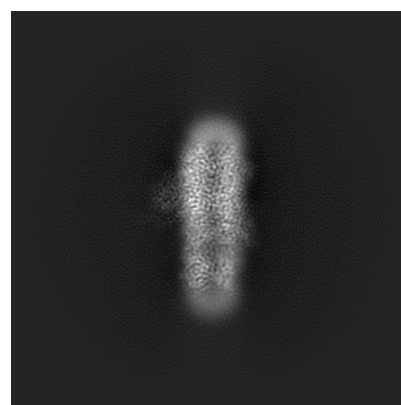
6.1.1 Primary map



X



Y

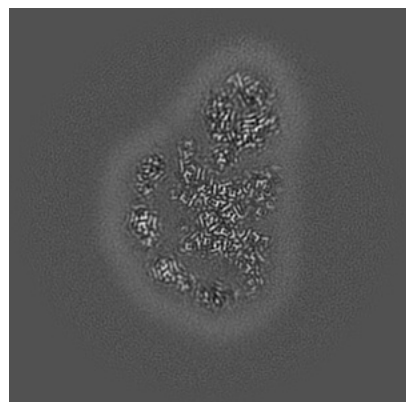


Z

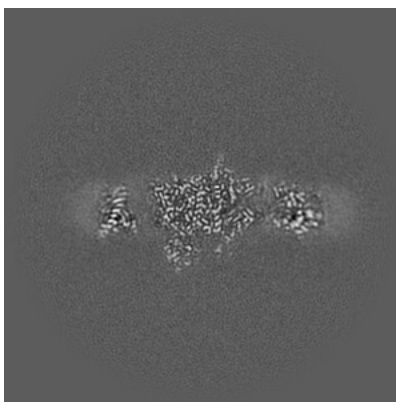
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

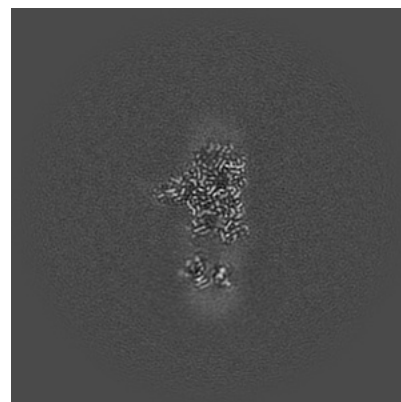
6.2.1 Primary map



X Index: 168



Y Index: 168

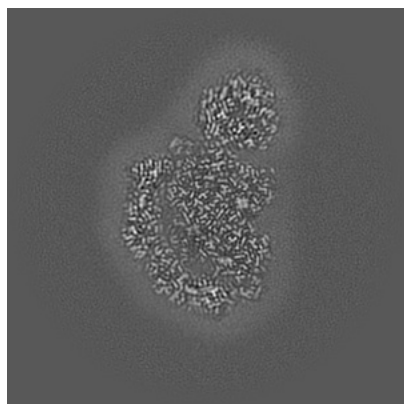


Z Index: 168

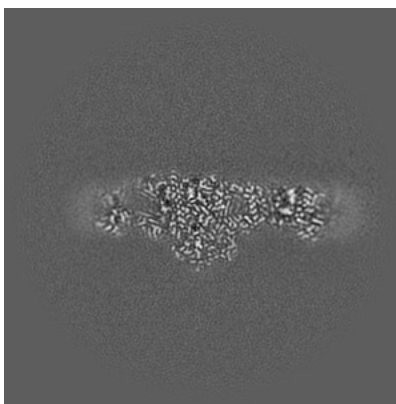
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

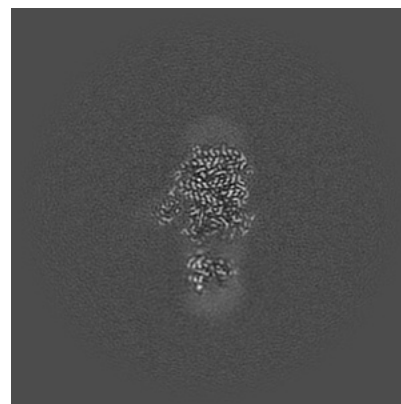
6.3.1 Primary map



X Index: 157



Y Index: 180

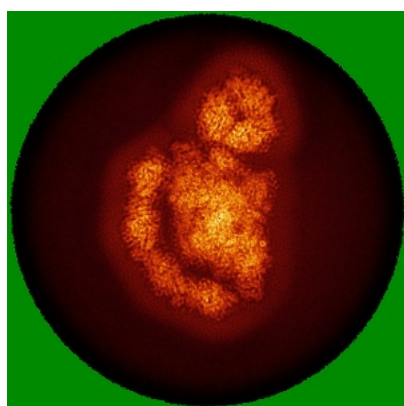


Z Index: 142

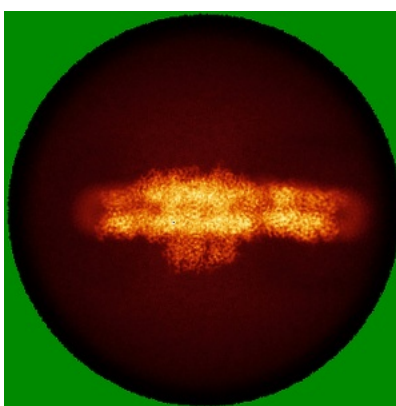
The images above show the largest variance slices of the map in three orthogonal directions.

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

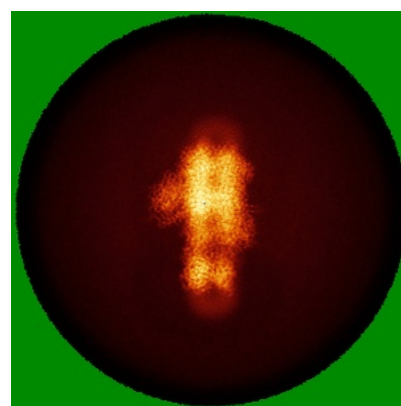
6.4.1 Primary map



X



Y



Z

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

This section was not generated.

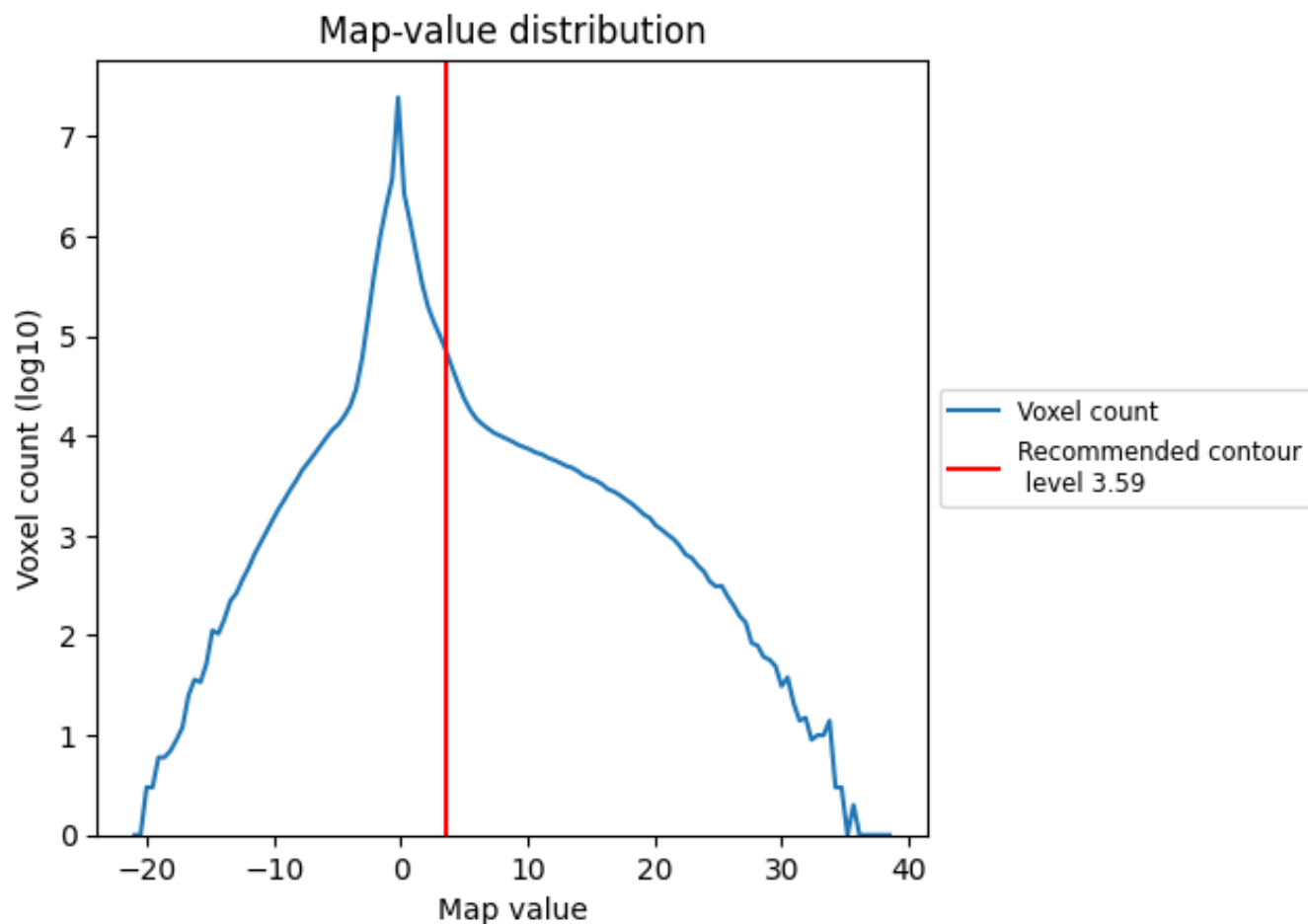
6.6 Mask visualisation

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

7 Map analysis [i](#)

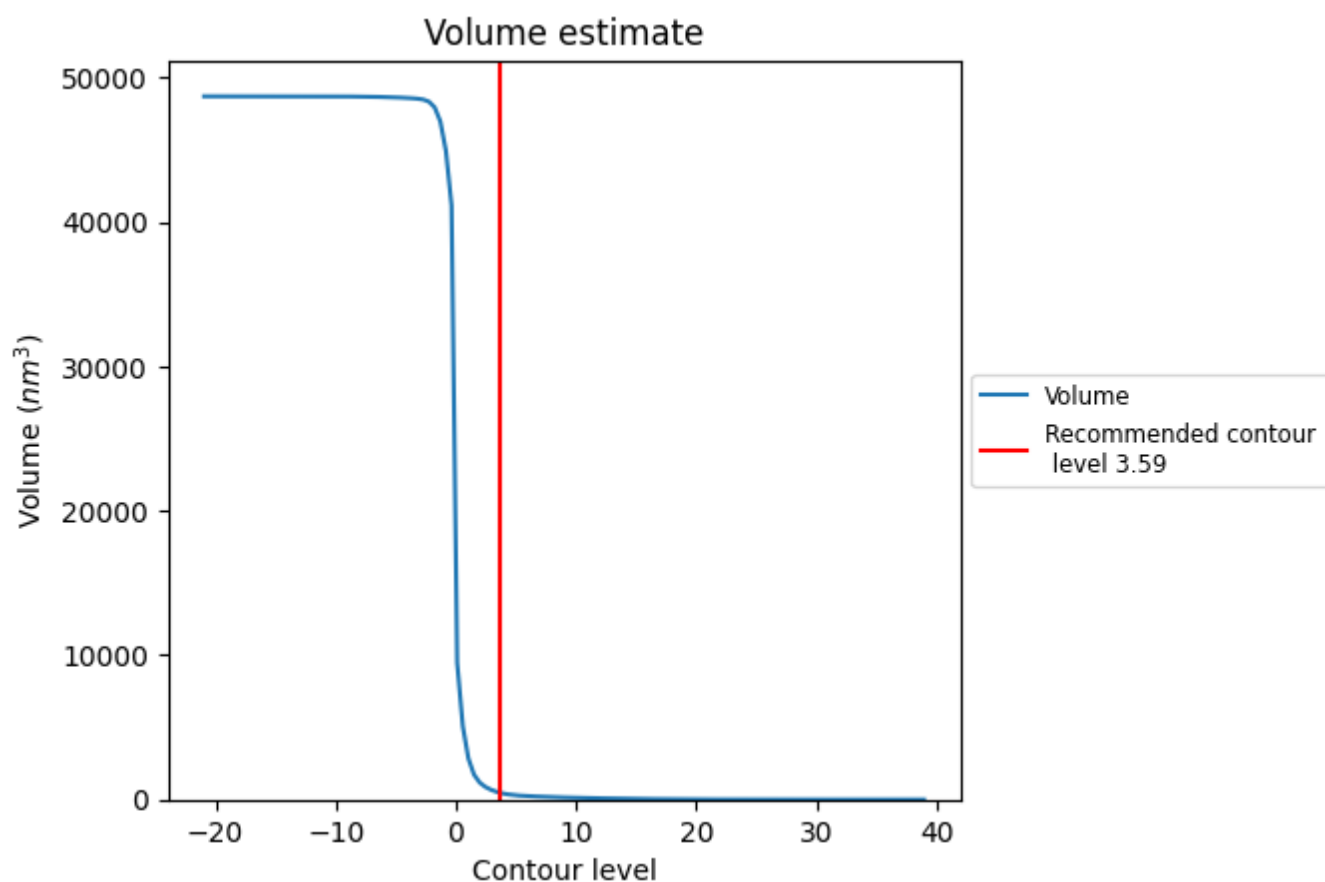
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

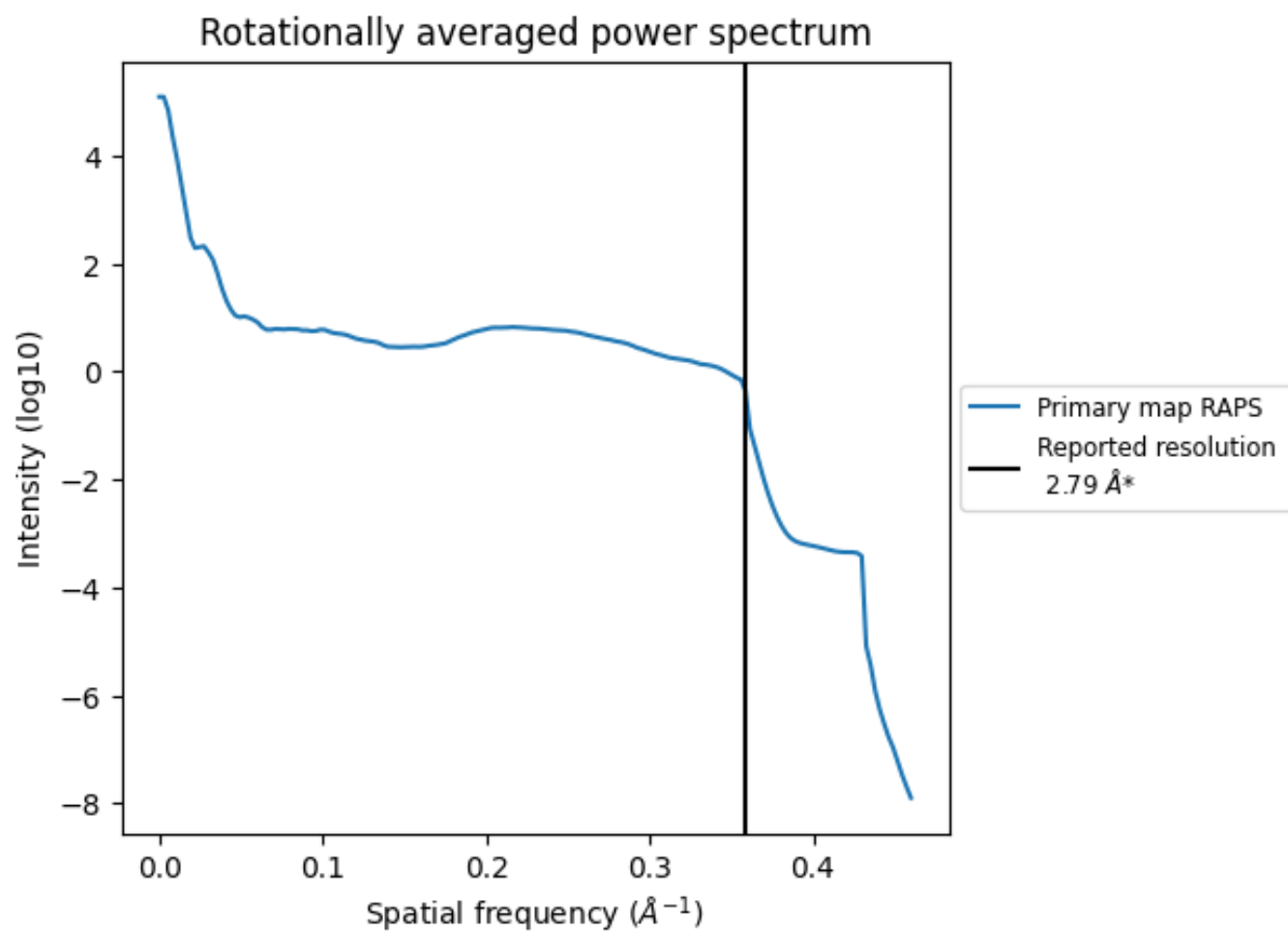
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 492 nm³; this corresponds to an approximate mass of 444 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 0.358 Å⁻¹

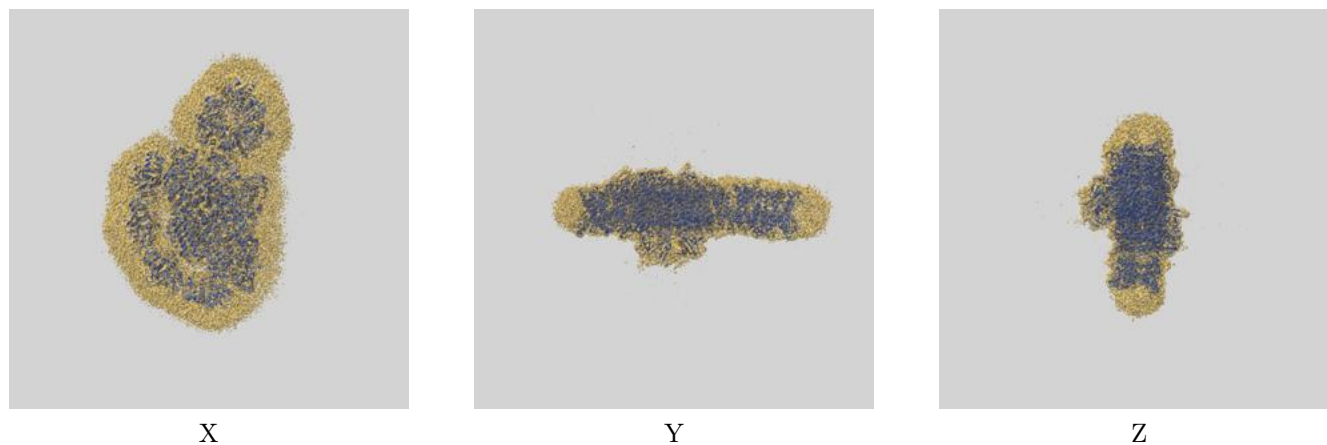
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

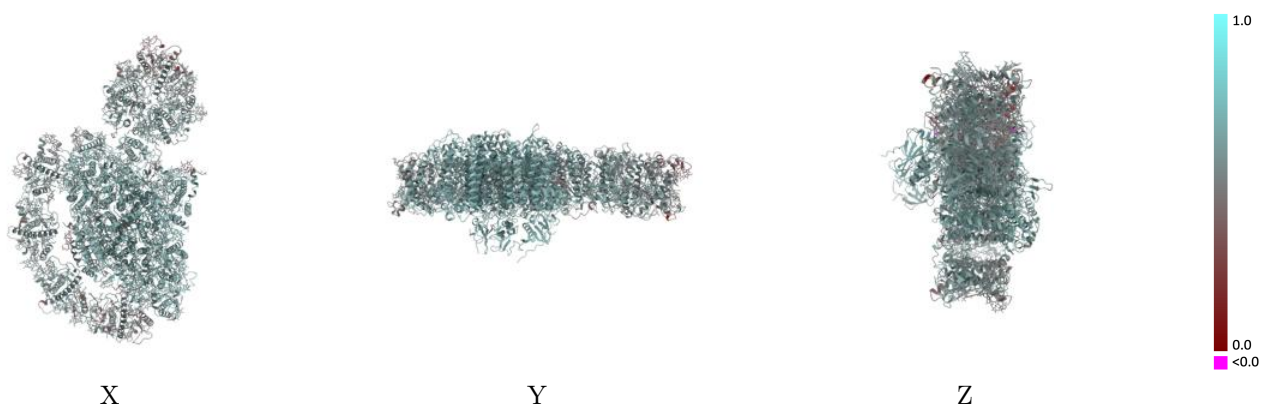
This section contains information regarding the fit between EMDB map EMD-36021 and PDB model 8J6Z. Per-residue inclusion information can be found in section 3 on page 31.

9.1 Map-model overlay [i](#)



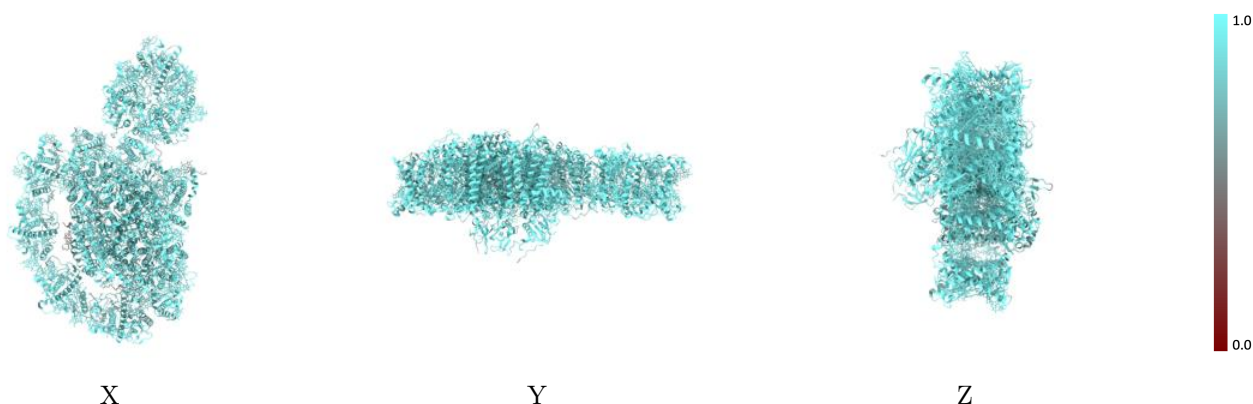
The images above show the 3D surface view of the map at the recommended contour level 3.59 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



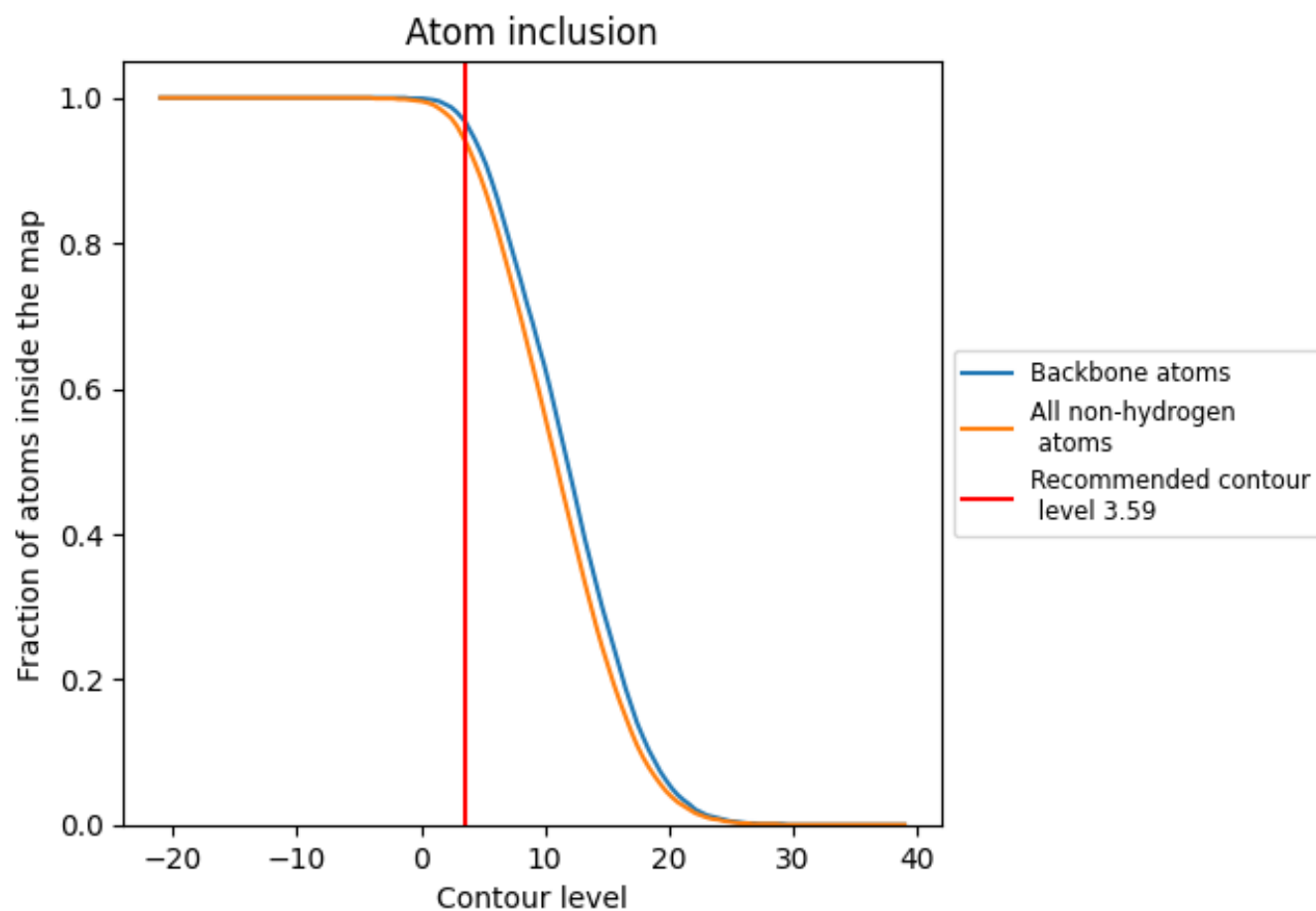
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (3.59).

9.4 Atom inclusion [i](#)



At the recommended contour level, 97% of all backbone atoms, 94% 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 (3.59) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9400	 0.5870
1	 0.9140	 0.5120
2	 0.9470	 0.5510
3	 0.9300	 0.5400
4	 0.9350	 0.5600
A	 0.9480	 0.6270
B	 0.9600	 0.6330
C	 0.9790	 0.6360
D	 0.9550	 0.6250
E	 0.9480	 0.6200
F	 0.8810	 0.5920
G	 0.9060	 0.5880
H	 0.9160	 0.5880
I	 0.9680	 0.6200
J	 0.7920	 0.5530
K	 0.8900	 0.5620
L	 0.9590	 0.6250
O	 0.9570	 0.5820
x	 0.9460	 0.5470
y	 0.9200	 0.4890
z	 0.9480	 0.5580

