



Full wwPDB EM Validation Report ⓘ

Mar 23, 2026 – 10:38 PM JST

PDB ID : 9UAS / pdb_00009uas
EMDB ID : EMD-63994
Title : PSI-LHCE-LHCII from Euglena gracilis
Authors : Feng, Y.
Deposited on : 2025-04-01
Resolution : 2.35 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:

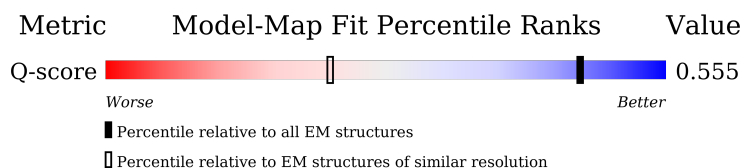
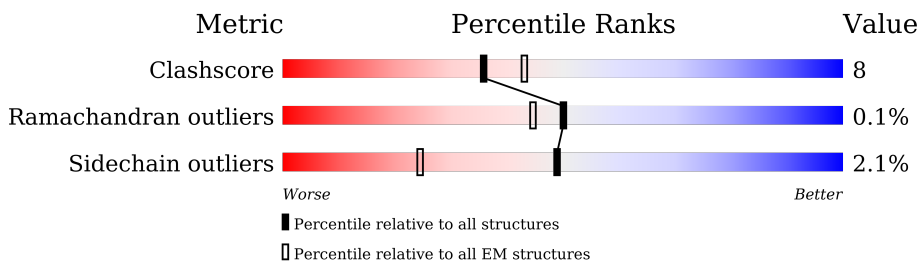
EMDB validation analysis : 0.0.1.dev132
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive 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) : 2.48.1

1 Overall quality at a glance i

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

The reported resolution of this entry is 2.35 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	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	4607 (1.85 - 2.85)

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	B	734	86% (Green), 13% (Yellow), 1% (Orange), 0% (Red), 0% (Grey)
2	C	81	89% (Green), 10% (Yellow), 1% (Orange), 0% (Red), 0% (Grey)
3	D	193	90% (Green), 9% (Yellow), 1% (Orange), 0% (Red), 0% (Grey)
4	E	158	33% (Green), 7% (Yellow), 60% (Grey)

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Mol	Chain	Length	Quality of chain
5	F	325	
6	G	184	
6	P	184	
7	H	185	
8	I	184	
8	N	184	
9	J	39	
10	K	184	
10	Q	184	
11	L	187	
11	R	187	
12	M	31	
13	O	177	
14	S	180	
15	T	173	
16	U	209	
17	V	196	
18	W	228	
19	X	223	
20	A	756	

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
22	CLA	A	801	X	-	-	-
22	CLA	A	803	X	-	-	-
22	CLA	A	804	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	A	805	X	-	-	-
22	CLA	A	806	X	-	-	-
22	CLA	A	807	X	-	-	-
22	CLA	A	808	X	-	-	-
22	CLA	A	809	X	-	-	-
22	CLA	A	810	X	-	-	-
22	CLA	A	811	X	-	-	-
22	CLA	A	812	X	-	-	-
22	CLA	A	813	X	-	-	-
22	CLA	A	814	X	-	-	-
22	CLA	A	815	X	-	-	-
22	CLA	A	816	X	-	-	-
22	CLA	A	817	X	-	-	-
22	CLA	A	818	X	-	-	-
22	CLA	A	819	X	-	-	-
22	CLA	A	820	X	-	-	-
22	CLA	A	821	X	-	-	-
22	CLA	A	822	X	-	-	-
22	CLA	A	823	X	-	-	-
22	CLA	A	824	X	-	-	-
22	CLA	A	825	X	-	-	-
22	CLA	A	826	X	-	-	-
22	CLA	A	827	X	-	-	-
22	CLA	A	828	X	-	-	-
22	CLA	A	829	X	-	-	-
22	CLA	A	830	X	-	-	-
22	CLA	A	831	X	-	-	-
22	CLA	A	832	X	-	-	-
22	CLA	A	833	X	-	-	-
22	CLA	A	834	X	-	-	-
22	CLA	A	835	X	-	-	-
22	CLA	A	836	X	-	-	-
22	CLA	A	837	X	-	-	-
22	CLA	A	838	X	-	-	-
22	CLA	A	839	X	-	-	-
22	CLA	A	840	X	-	-	-
22	CLA	A	841	X	-	-	-
22	CLA	A	842	X	-	-	-
22	CLA	A	844	X	-	-	-
22	CLA	A	852	X	-	-	-
22	CLA	B	802	X	-	-	-
22	CLA	B	803	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	B	804	X	-	-	-
22	CLA	B	805	X	-	-	-
22	CLA	B	806	X	-	-	-
22	CLA	B	807	X	-	-	-
22	CLA	B	808	X	-	-	-
22	CLA	B	809	X	-	-	-
22	CLA	B	810	X	-	-	-
22	CLA	B	811	X	-	-	-
22	CLA	B	812	X	-	-	-
22	CLA	B	813	X	-	-	-
22	CLA	B	814	X	-	-	-
22	CLA	B	815	X	-	-	-
22	CLA	B	816	X	-	-	-
22	CLA	B	817	X	-	-	-
22	CLA	B	818	X	-	-	-
22	CLA	B	819	X	-	-	-
22	CLA	B	820	X	-	-	-
22	CLA	B	821	X	-	-	-
22	CLA	B	822	X	-	-	-
22	CLA	B	823	X	-	-	-
22	CLA	B	824	X	-	-	-
22	CLA	B	825	X	-	-	-
22	CLA	B	826	X	-	-	-
22	CLA	B	827	X	-	-	-
22	CLA	B	828	X	-	-	-
22	CLA	B	829	X	-	-	-
22	CLA	B	830	X	-	-	-
22	CLA	B	831	X	-	-	-
22	CLA	B	832	X	-	-	-
22	CLA	B	833	X	-	-	-
22	CLA	B	834	X	-	-	-
22	CLA	B	835	X	-	-	-
22	CLA	B	836	X	-	-	-
22	CLA	B	837	X	-	-	-
22	CLA	B	838	X	-	-	-
22	CLA	B	839	X	-	-	-
22	CLA	B	859	X	-	-	-
22	CLA	F	403	X	-	-	-
22	CLA	F	404	X	-	-	-
22	CLA	F	405	X	-	-	-
22	CLA	G	601	X	-	-	-
22	CLA	G	602	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	G	603	X	-	-	-
22	CLA	G	604	X	-	-	-
22	CLA	G	605	X	-	-	-
22	CLA	G	606	X	-	-	-
22	CLA	G	607	X	-	-	-
22	CLA	G	608	X	-	-	-
22	CLA	G	609	X	-	-	-
22	CLA	G	610	X	-	-	-
22	CLA	G	611	X	-	-	-
22	CLA	H	302	X	-	-	-
22	CLA	H	303	X	-	-	-
22	CLA	H	304	X	-	-	-
22	CLA	H	305	X	-	-	-
22	CLA	H	306	X	-	-	-
22	CLA	H	307	X	-	-	-
22	CLA	H	308	X	-	-	-
22	CLA	H	309	X	-	-	-
22	CLA	H	310	X	-	-	-
22	CLA	H	311	X	-	-	-
22	CLA	H	312	X	-	-	-
22	CLA	H	313	X	-	-	-
22	CLA	H	318	X	-	-	-
22	CLA	I	601	X	-	-	-
22	CLA	I	602	X	-	-	-
22	CLA	I	603	X	-	-	-
22	CLA	I	604	X	-	-	-
22	CLA	I	605	X	-	-	-
22	CLA	I	606	X	-	-	-
22	CLA	I	607	X	-	-	-
22	CLA	I	608	X	-	-	-
22	CLA	I	609	X	-	-	-
22	CLA	I	610	X	-	-	-
22	CLA	I	611	X	-	-	-
22	CLA	J	102	X	-	-	-
22	CLA	K	602	X	-	-	-
22	CLA	K	603	X	-	-	-
22	CLA	K	604	X	-	-	-
22	CLA	K	605	X	-	-	-
22	CLA	K	606	X	-	-	-
22	CLA	K	607	X	-	-	-
22	CLA	K	608	X	-	-	-
22	CLA	K	609	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	K	610	X	-	-	-
22	CLA	K	611	X	-	-	-
22	CLA	K	612	X	-	-	-
22	CLA	K	613	X	-	-	-
22	CLA	K	617	X	-	-	-
22	CLA	L	402	X	-	-	-
22	CLA	L	403	X	-	-	-
22	CLA	L	404	X	-	-	-
22	CLA	L	405	X	-	-	-
22	CLA	L	406	X	-	-	-
22	CLA	L	407	X	-	-	-
22	CLA	L	408	X	-	-	-
22	CLA	L	409	X	-	-	-
22	CLA	L	410	X	-	-	-
22	CLA	L	411	X	-	-	-
22	CLA	L	412	X	-	-	-
22	CLA	L	417	X	-	-	-
22	CLA	N	601	X	-	-	-
22	CLA	N	602	X	-	-	-
22	CLA	N	603	X	-	-	-
22	CLA	N	604	X	-	-	-
22	CLA	N	605	X	-	-	-
22	CLA	N	606	X	-	-	-
22	CLA	N	607	X	-	-	-
22	CLA	N	608	X	-	-	-
22	CLA	N	609	X	-	-	-
22	CLA	N	610	X	-	-	-
22	CLA	N	611	X	-	-	-
22	CLA	O	305	X	-	-	-
22	CLA	O	306	X	-	-	-
22	CLA	O	307	X	-	-	-
22	CLA	O	308	X	-	-	-
22	CLA	O	309	X	-	-	-
22	CLA	O	310	X	-	-	-
22	CLA	O	311	X	-	-	-
22	CLA	O	312	X	-	-	-
22	CLA	O	313	X	-	-	-
22	CLA	O	314	X	-	-	-
22	CLA	O	315	X	-	-	-
22	CLA	O	319	X	-	-	-
22	CLA	P	602	X	-	-	-
22	CLA	P	604	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	P	605	X	-	-	-
22	CLA	P	606	X	-	-	-
22	CLA	P	607	X	-	-	-
22	CLA	P	608	X	-	-	-
22	CLA	P	609	X	-	-	-
22	CLA	P	610	X	-	-	-
22	CLA	P	611	X	-	-	-
22	CLA	Q	601	X	-	-	-
22	CLA	Q	603	X	-	-	-
22	CLA	Q	604	X	-	-	-
22	CLA	Q	605	X	-	-	-
22	CLA	Q	606	X	-	-	-
22	CLA	Q	607	X	-	-	-
22	CLA	Q	608	X	-	-	-
22	CLA	Q	609	X	-	-	-
22	CLA	Q	610	X	-	-	-
22	CLA	Q	611	X	-	-	-
22	CLA	Q	612	X	-	-	-
22	CLA	Q	613	X	-	-	-
22	CLA	Q	617	X	-	-	-
22	CLA	Q	618	X	-	-	-
22	CLA	R	601	X	-	-	-
22	CLA	R	602	X	-	-	-
22	CLA	R	603	X	-	-	-
22	CLA	R	604	X	-	-	-
22	CLA	R	605	X	-	-	-
22	CLA	R	606	X	-	-	-
22	CLA	R	607	X	-	-	-
22	CLA	R	608	X	-	-	-
22	CLA	R	609	X	-	-	-
22	CLA	R	610	X	-	-	-
22	CLA	R	611	X	-	-	-
22	CLA	R	615	X	-	-	-
22	CLA	S	601	X	-	-	-
22	CLA	S	602	X	-	-	-
22	CLA	S	603	X	-	-	-
22	CLA	S	604	X	-	-	-
22	CLA	S	605	X	-	-	-
22	CLA	S	606	X	-	-	-
22	CLA	S	607	X	-	-	-
22	CLA	S	608	X	-	-	-
22	CLA	S	610	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	S	614	X	-	-	-
22	CLA	S	615	X	-	-	-
22	CLA	T	601	X	-	-	-
22	CLA	T	602	X	-	-	-
22	CLA	T	603	X	-	-	-
22	CLA	T	604	X	-	-	-
22	CLA	T	605	X	-	-	-
22	CLA	T	606	X	-	-	-
22	CLA	T	607	X	-	-	-
22	CLA	T	608	X	-	-	-
22	CLA	T	609	X	-	-	-
22	CLA	T	610	X	-	-	-
22	CLA	T	611	X	-	-	-
22	CLA	U	401	X	-	-	-
22	CLA	U	403	X	-	-	-
22	CLA	U	404	X	-	-	-
22	CLA	U	405	X	-	-	-
22	CLA	U	406	X	-	-	-
22	CLA	U	409	X	-	-	-
22	CLA	U	410	X	-	-	-
22	CLA	U	411	X	-	-	-
22	CLA	U	412	X	-	-	-
22	CLA	U	413	X	-	-	-
22	CLA	U	414	X	-	-	-
22	CLA	U	415	X	-	-	-
22	CLA	U	420	X	-	-	-
22	CLA	V	601	X	-	-	-
22	CLA	V	602	X	-	-	-
22	CLA	V	603	X	-	-	-
22	CLA	V	604	X	-	-	-
22	CLA	V	607	X	-	-	-
22	CLA	V	608	X	-	-	-
22	CLA	V	609	X	-	-	-
22	CLA	V	610	X	-	-	-
22	CLA	V	611	X	-	-	-
22	CLA	V	612	X	-	-	-
22	CLA	V	613	X	-	-	-
22	CLA	V	617	X	-	-	-
22	CLA	W	402	X	-	-	-
22	CLA	W	403	X	-	-	-
22	CLA	W	404	X	-	-	-
22	CLA	W	405	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	W	406	X	-	-	-
22	CLA	W	409	X	-	-	-
22	CLA	W	410	X	-	-	-
22	CLA	W	411	X	-	-	-
22	CLA	W	412	X	-	-	-
22	CLA	W	413	X	-	-	-
22	CLA	W	414	X	-	-	-
22	CLA	W	415	X	-	-	-
22	CLA	W	419	X	-	-	-
22	CLA	X	402	X	-	-	-
22	CLA	X	403	X	-	-	-
22	CLA	X	404	X	-	-	-
22	CLA	X	405	X	-	-	-
22	CLA	X	407	X	-	-	-
22	CLA	X	408	X	-	-	-
22	CLA	X	409	X	-	-	-
22	CLA	X	410	X	-	-	-
22	CLA	X	411	X	-	-	-
22	CLA	X	412	X	-	-	-
22	CLA	X	413	X	-	-	-
22	CLA	X	417	X	-	-	-
22	CLA	X	419	X	-	-	-
31	CHL	U	407	X	-	-	-
31	CHL	U	408	X	-	-	-
31	CHL	V	605	X	-	-	-
31	CHL	V	606	X	-	-	-
31	CHL	W	407	X	-	-	-
31	CHL	W	408	X	-	-	-
31	CHL	W	422	X	-	-	-
31	CHL	X	406	X	-	-	-
33	CLO	A	802	X	-	-	-

2 Entry composition [i](#)

There are 33 unique types of molecules in this entry. The entry contains 60137 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	B	732	5868	3859	985	1009	15	0	0

- Molecule 2 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	C	80	596	363	104	118	11	0	0

- Molecule 3 is a protein called PsaD.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	D	190	1489	948	254	285	2	0	0

- Molecule 4 is a protein called PsaE.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
4	E	63	509	324	86	99	0	0

- Molecule 5 is a protein called PsaF.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	F	166	1262	811	210	239	2	0	0

- Molecule 6 is a protein called Lhce5.7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	G	175	1323	853	224	242	4	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	P	164	Total	C	N	O	S	0	0
			1243	803	209	227	4		

- Molecule 7 is a protein called Lhce7.3.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	H	173	Total	C	N	O	S	0	0
			1342	862	233	242	5		

- Molecule 8 is a protein called Lhce5.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	I	165	Total	C	N	O	S	0	0
			1242	801	212	225	4		
8	N	170	Total	C	N	O	S	0	0
			1271	819	215	233	4		

- Molecule 9 is a protein called PsaJ.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	J	37	Total	C	N	O	S	0	0
			305	209	43	52	1		

- Molecule 10 is a protein called LhcE6.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	K	182	Total	C	N	O	S	0	0
			1444	939	246	253	6		
10	Q	182	Total	C	N	O	S	0	0
			1440	938	245	251	6		

- Molecule 11 is a protein called Lhce8.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	L	178	Total	C	N	O	S	0	0
			1364	876	237	247	4		
11	R	174	Total	C	N	O	S	0	0
			1331	852	232	243	4		

- Molecule 12 is a protein called PsaM.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	M	31	Total	C	N	O	S	0	0
			242	162	37	42	1		

- Molecule 13 is a protein called LhcE7.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	O	175	Total	C	N	O	S	0	0
			1359	870	234	250	5		

- Molecule 14 is a protein called Lhce10.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	S	172	Total	C	N	O	S	0	0
			1327	858	219	246	4		

- Molecule 15 is a protein called Lhce11.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	T	167	Total	C	N	O	S	0	0
			1283	824	221	231	7		

- Molecule 16 is a protein called LhcbM4.6.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	U	199	Total	C	N	O	S	0	0
			1517	981	256	275	5		

- Molecule 17 is a protein called LhcbM4.10.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	V	196	Total	C	N	O	S	0	0
			1513	990	253	265	5		

- Molecule 18 is a protein called LhcbM2.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	W	220	Total	C	N	O	S	0	0
			1669	1088	275	302	4		

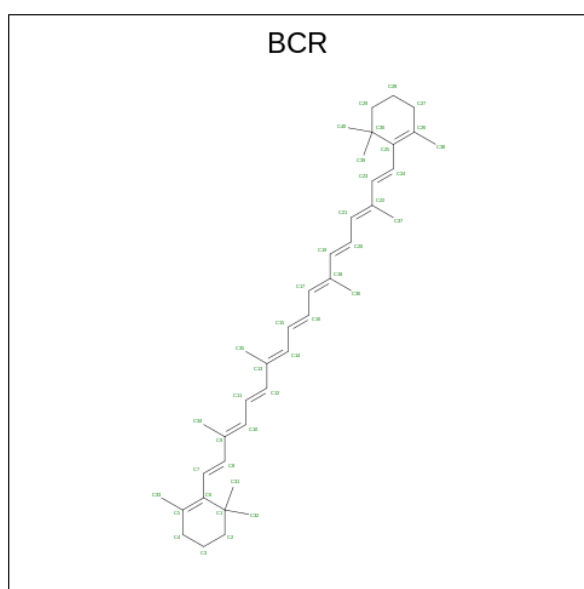
- Molecule 19 is a protein called LhcbM8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
19	X	223	1688	1093	284	306	5	0	0

- Molecule 20 is a protein called PsaA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
20	A	740	5872	3855	992	1004	21	0	0

- Molecule 21 is BETA-CAROTENE (CCD ID: BCR) (formula: $C_{40}H_{56}$) (labeled as "Ligand of Interest" by depositor).



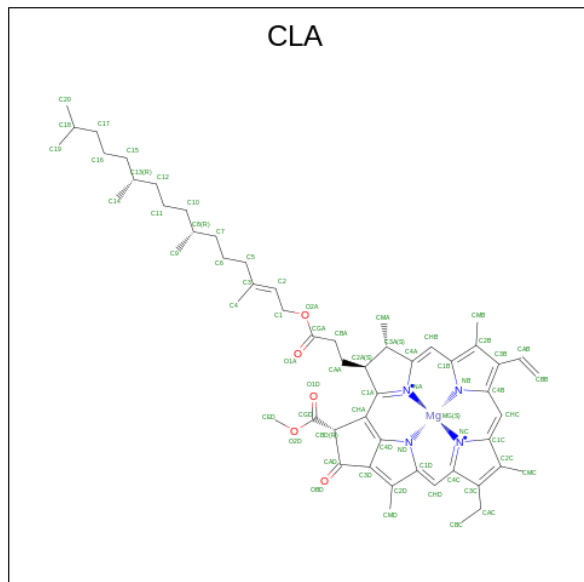
Mol	Chain	Residues	Atoms		AltConf
21	B	1	Total	C	0
			40	40	
21	B	1	Total	C	0
			40	40	
21	B	1	Total	C	0
			40	40	
21	B	1	Total	C	0
			40	40	
21	B	1	Total	C	0
			40	40	
21	J	1	Total	C	0
			40	40	

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Mol	Chain	Residues	Atoms	AltConf
21	M	1	Total C 40 40	0
21	A	1	Total C 40 40	0
21	A	1	Total C 40 40	0
21	A	1	Total C 40 40	0
21	A	1	Total C 40 40	0

- Molecule 22 is CHLOROPHYLL A (CCD ID: CLA) (formula: C₅₅H₇₂MgN₄O₅) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
22	B	1	Total C Mg N O 65 55 1 4 5	0
22	B	1	Total C Mg N O 56 46 1 4 5	0
22	B	1	Total C Mg N O 65 55 1 4 5	0
22	B	1	Total C Mg N O 65 55 1 4 5	0
22	B	1	Total C Mg N O 65 55 1 4 5	0
22	B	1	Total C Mg N O 65 55 1 4 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	B	1	55	45	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	56	46	1	4	5	0
22	B	1	45	35	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	45	35	1	4	5	0
22	B	1	52	42	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	53	43	1	4	5	0
22	B	1	53	43	1	4	5	0
22	B	1	60	50	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	58	48	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	B	1	45	35	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	62	52	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	51	41	1	4	5	0
22	B	1	45	35	1	4	5	0
22	B	1	45	35	1	4	5	0
22	B	1	65	55	1	4	5	0
22	B	1	65	55	1	4	5	0
22	F	1	65	55	1	4	5	0
22	F	1	55	45	1	4	5	0
22	F	1	45	35	1	4	5	0
22	G	1	45	35	1	4	5	0
22	G	1	60	50	1	4	5	0
22	G	1	56	46	1	4	5	0
22	G	1	45	35	1	4	5	0
22	G	1	45	35	1	4	5	0
22	G	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	G	1	60	50	1	4	5	0
22	G	1	60	50	1	4	5	0
22	G	1	45	35	1	4	5	0
22	G	1	45	35	1	4	5	0
22	G	1	45	35	1	4	5	0
22	H	1	45	35	1	4	5	0
22	H	1	60	50	1	4	5	0
22	H	1	45	35	1	4	5	0
22	H	1	60	50	1	4	5	0
22	H	1	55	45	1	4	5	0
22	H	1	60	50	1	4	5	0
22	H	1	60	50	1	4	5	0
22	H	1	55	45	1	4	5	0
22	H	1	45	35	1	4	5	0
22	H	1	65	55	1	4	5	0
22	H	1	45	35	1	4	5	0
22	H	1	58	48	1	4	5	0
22	H	1	45	35	1	4	5	0
22	I	1	65	55	1	4	5	0
22	I	1	60	50	1	4	5	0
22	I	1	56	46	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	I	1	45	35	1	4	5	0
22	I	1	45	35	1	4	5	0
22	I	1	61	51	1	4	5	0
22	I	1	55	45	1	4	5	0
22	I	1	45	35	1	4	5	0
22	I	1	45	35	1	4	5	0
22	I	1	45	35	1	4	5	0
22	I	1	45	35	1	4	5	0
22	J	1	50	40	1	4	5	0
22	K	1	60	50	1	4	5	0
22	K	1	60	50	1	4	5	0
22	K	1	64	55	1	4	4	0
22	K	1	65	55	1	4	5	0
22	K	1	50	40	1	4	5	0
22	K	1	57	47	1	4	5	0
22	K	1	65	55	1	4	5	0
22	K	1	60	50	1	4	5	0
22	K	1	56	46	1	4	5	0
22	K	1	65	55	1	4	5	0
22	K	1	45	35	1	4	5	0
22	K	1	53	43	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	K	1	65	55	1	4	5	0
22	L	1	65	55	1	4	5	0
22	L	1	60	50	1	4	5	0
22	L	1	56	46	1	4	5	0
22	L	1	45	35	1	4	5	0
22	L	1	65	55	1	4	5	0
22	L	1	57	47	1	4	5	0
22	L	1	60	50	1	4	5	0
22	L	1	60	50	1	4	5	0
22	L	1	60	50	1	4	5	0
22	L	1	65	55	1	4	5	0
22	L	1	45	35	1	4	5	0
22	L	1	65	55	1	4	5	0
22	N	1	45	35	1	4	5	0
22	N	1	60	50	1	4	5	0
22	N	1	65	55	1	4	5	0
22	N	1	45	35	1	4	5	0
22	N	1	45	35	1	4	5	0
22	N	1	65	55	1	4	5	0
22	N	1	60	50	1	4	5	0
22	N	1	45	35	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	N	1	45	35	1	4	5	0
22	N	1	55	45	1	4	5	0
22	N	1	40	32	1	4	3	0
22	O	1	50	40	1	4	5	0
22	O	1	60	50	1	4	5	0
22	O	1	45	35	1	4	5	0
22	O	1	61	51	1	4	5	0
22	O	1	50	40	1	4	5	0
22	O	1	60	50	1	4	5	0
22	O	1	60	50	1	4	5	0
22	O	1	60	50	1	4	5	0
22	O	1	65	55	1	4	5	0
22	O	1	45	35	1	4	5	0
22	O	1	50	40	1	4	5	0
22	O	1	45	35	1	4	5	0
22	P	1	45	35	1	4	5	0
22	P	1	45	35	1	4	5	0
22	P	1	45	35	1	4	5	0
22	P	1	45	35	1	4	5	0
22	P	1	45	35	1	4	5	0
22	P	1	45	35	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	P	1	45	35	1	4	5	0
22	P	1	45	35	1	4	5	0
22	P	1	41	33	1	4	3	0
22	P	1	45	35	1	4	5	0
22	Q	1	45	35	1	4	5	0
22	Q	1	45	35	1	4	5	0
22	Q	1	65	55	1	4	5	0
22	Q	1	56	46	1	4	5	0
22	Q	1	45	35	1	4	5	0
22	Q	1	45	35	1	4	5	0
22	Q	1	50	40	1	4	5	0
22	Q	1	60	50	1	4	5	0
22	Q	1	65	55	1	4	5	0
22	Q	1	55	45	1	4	5	0
22	Q	1	65	55	1	4	5	0
22	Q	1	45	35	1	4	5	0
22	Q	1	52	42	1	4	5	0
22	Q	1	45	35	1	4	5	0
22	R	1	65	55	1	4	5	0
22	R	1	60	50	1	4	5	0
22	R	1	56	46	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	R	1	45	35	1	4	5	0
22	R	1	65	55	1	4	5	0
22	R	1	57	47	1	4	5	0
22	R	1	60	50	1	4	5	0
22	R	1	54	44	1	4	5	0
22	R	1	41	33	1	4	3	0
22	R	1	65	55	1	4	5	0
22	R	1	45	35	1	4	5	0
22	R	1	65	55	1	4	5	0
22	S	1	45	35	1	4	5	0
22	S	1	60	50	1	4	5	0
22	S	1	45	35	1	4	5	0
22	S	1	60	50	1	4	5	0
22	S	1	60	50	1	4	5	0
22	S	1	50	40	1	4	5	0
22	S	1	60	50	1	4	5	0
22	S	1	45	35	1	4	5	0
22	S	1	55	45	1	4	5	0
22	S	1	45	35	1	4	5	0
22	S	1	45	35	1	4	5	0
22	S	1	51	41	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	T	1	45	35	1	4	5	0
22	T	1	65	55	1	4	5	0
22	T	1	60	50	1	4	5	0
22	T	1	65	55	1	4	5	0
22	T	1	65	55	1	4	5	0
22	T	1	50	40	1	4	5	0
22	T	1	60	50	1	4	5	0
22	T	1	60	50	1	4	5	0
22	T	1	45	35	1	4	5	0
22	T	1	45	35	1	4	5	0
22	T	1	65	55	1	4	5	0
22	U	1	55	45	1	4	5	0
22	U	1	45	35	1	4	5	0
22	U	1	65	55	1	4	5	0
22	U	1	57	47	1	4	5	0
22	U	1	56	46	1	4	5	0
22	U	1	45	35	1	4	5	0
22	U	1	55	45	1	4	5	0
22	U	1	57	47	1	4	5	0
22	U	1	45	35	1	4	5	0
22	U	1	45	35	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	U	1	61	51	1	4	5	0
22	U	1	45	35	1	4	5	0
22	U	1	45	35	1	4	5	0
22	V	1	45	35	1	4	5	0
22	V	1	65	55	1	4	5	0
22	V	1	57	47	1	4	5	0
22	V	1	56	46	1	4	5	0
22	V	1	45	35	1	4	5	0
22	V	1	55	45	1	4	5	0
22	V	1	57	47	1	4	5	0
22	V	1	45	35	1	4	5	0
22	V	1	45	35	1	4	5	0
22	V	1	65	55	1	4	5	0
22	V	1	45	35	1	4	5	0
22	V	1	45	35	1	4	5	0
22	W	1	55	45	1	4	5	0
22	W	1	52	42	1	4	5	0
22	W	1	65	55	1	4	5	0
22	W	1	60	50	1	4	5	0
22	W	1	56	46	1	4	5	0
22	W	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	W	1	60	50	1	4	5	0
22	W	1	60	50	1	4	5	0
22	W	1	60	50	1	4	5	0
22	W	1	45	35	1	4	5	0
22	W	1	65	55	1	4	5	0
22	W	1	45	35	1	4	5	0
22	W	1	45	35	1	4	5	0
22	X	1	55	45	1	4	5	0
22	X	1	65	55	1	4	5	0
22	X	1	60	50	1	4	5	0
22	X	1	56	46	1	4	5	0
22	X	1	65	55	1	4	5	0
22	X	1	65	55	1	4	5	0
22	X	1	65	55	1	4	5	0
22	X	1	60	50	1	4	5	0
22	X	1	45	35	1	4	5	0
22	X	1	65	55	1	4	5	0
22	X	1	45	35	1	4	5	0
22	X	1	50	40	1	4	5	0
22	X	1	45	35	1	4	5	0
22	A	1	65	55	1	4	5	0

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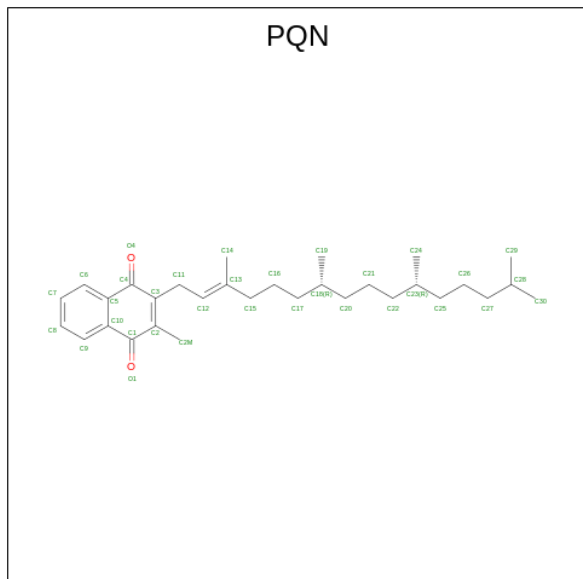
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	61	51	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	53	43	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	57	47	1	4	5	0
22	A	1	57	47	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	61	51	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	53	43	1	4	5	0
22	A	1	58	48	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	45	35	1	4	5	0

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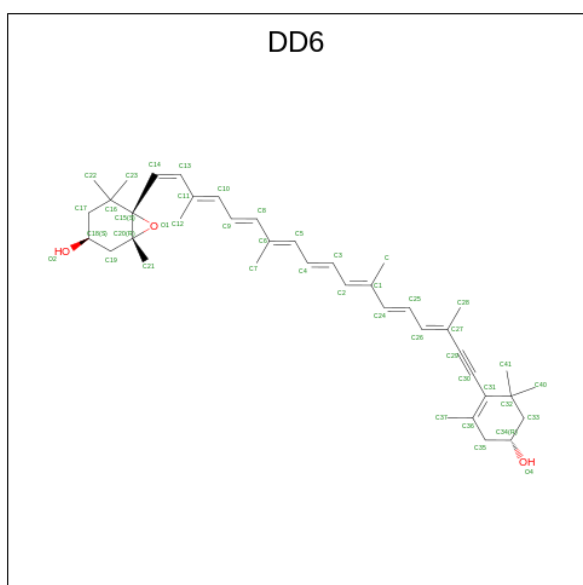
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
22	A	1	65	55	1	4	5	0
22	A	1	61	51	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	62	52	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	52	42	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	45	35	1	4	5	0
22	A	1	61	51	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	50	40	1	4	5	0
22	A	1	52	42	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	65	55	1	4	5	0
22	A	1	55	45	1	4	5	0
22	A	1	65	55	1	4	5	0

- Molecule 23 is PHYLLOQUINONE (CCD ID: PQN) (formula: $C_{31}H_{46}O_2$) (labeled as "Ligand of Interest" by depositor).



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

- Molecule 24 is (3S,3'R,5R,6S,7cis)-7',8'-didehydro-5,6-dihydro-5,6-epoxy-beta,beta-carotene-3,3'-diol (CCD ID: DD6) (formula: $C_{40}H_{54}O_3$) (labeled as "Ligand of Interest" by depositor).



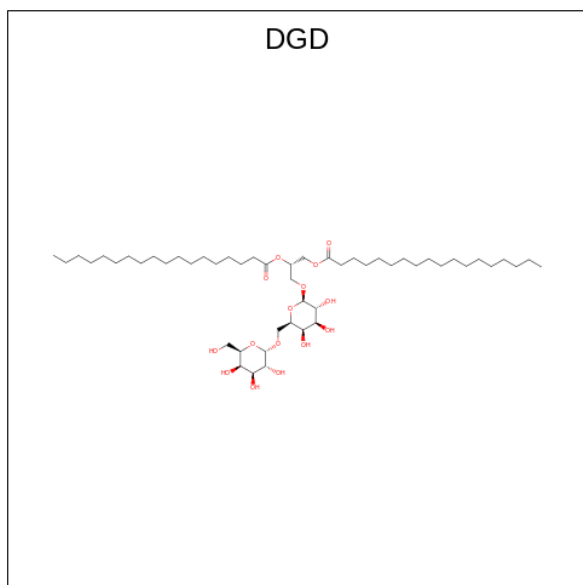
Mol	Chain	Residues	Atoms			AltConf
24	B	1	Total 43	C 40	O 3	0
24	F	1	Total 43	C 40	O 3	0
24	G	1	Total 43	C 40	O 3	0
24	G	1	Total 43	C 40	O 3	0
24	H	1	Total 43	C 40	O 3	0
24	H	1	Total 43	C 40	O 3	0
24	I	1	Total 43	C 40	O 3	0
24	I	1	Total 43	C 40	O 3	0
24	J	1	Total 43	C 40	O 3	0
24	K	1	Total 43	C 40	O 3	0
24	K	1	Total 43	C 40	O 3	0
24	L	1	Total 43	C 40	O 3	0
24	L	1	Total 43	C 40	O 3	0
24	L	1	Total 43	C 40	O 3	0
24	N	1	Total 43	C 40	O 3	0
24	N	1	Total 43	C 40	O 3	0
24	O	1	Total 43	C 40	O 3	0
24	O	1	Total 43	C 40	O 3	0
24	P	1	Total 43	C 40	O 3	0
24	P	1	Total 43	C 40	O 3	0
24	Q	1	Total 43	C 40	O 3	0
24	Q	1	Total 43	C 40	O 3	0

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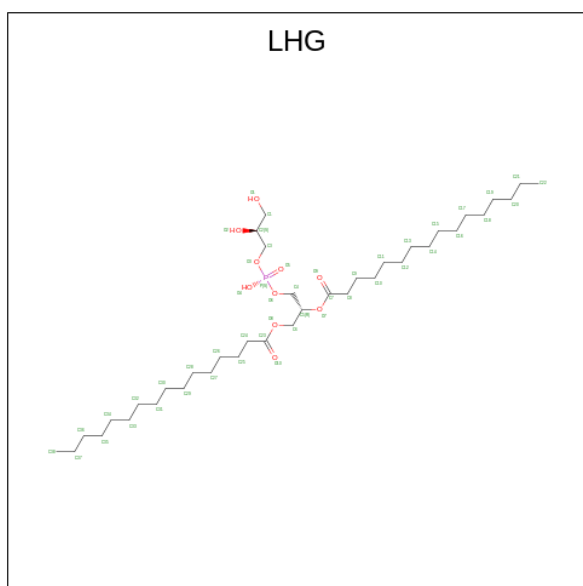
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
24	R	1	43	40	3	0
24	R	1	43	40	3	0
24	S	1	43	40	3	0
24	S	1	43	40	3	0
24	T	1	43	40	3	0
24	T	1	43	40	3	0
24	U	1	43	40	3	0
24	U	1	43	40	3	0
24	V	1	43	40	3	0
24	V	1	43	40	3	0
24	W	1	43	40	3	0
24	W	1	43	40	3	0
24	W	1	43	40	3	0
24	X	1	43	40	3	0
24	X	1	43	40	3	0
24	X	1	43	40	3	0
24	X	1	43	40	3	0
24	A	1	43	40	3	0
24	A	1	43	40	3	0
24	A	1	43	40	3	0

- Molecule 25 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: C₅₁H₉₆O₁₅) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
25	B	1	66	51	15	0
25	F	1	34	29	5	0
25	O	1	60	45	15	0

- Molecule 26 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: $C_{38}H_{75}O_{10}P$) (labeled as "Ligand of Interest" by depositor).



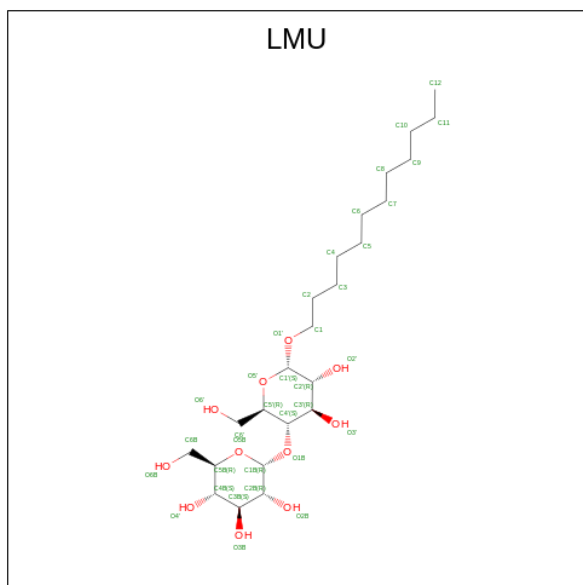
Mol	Chain	Residues	Atoms				AltConf
26	B	1	Total	C	O	P	0
			27	16	10	1	
26	B	1	Total	C	O	P	0
			42	31	10	1	
26	G	1	Total	C	O	P	0
			32	21	10	1	
26	H	1	Total	C	O	P	0
			27	16	10	1	
26	K	1	Total	C	O	P	0
			39	28	10	1	
26	K	1	Total	C	O	P	0
			33	22	10	1	
26	L	1	Total	C	O	P	0
			42	31	10	1	
26	N	1	Total	C	O	P	0
			28	17	10	1	
26	N	1	Total	C	O	P	0
			43	32	10	1	
26	O	1	Total	C	O	P	0
			34	23	10	1	
26	O	1	Total	C	O	P	0
			49	38	10	1	
26	O	1	Total	C	O	P	0
			43	32	10	1	
26	O	1	Total	C	O	P	0
			42	31	10	1	
26	P	1	Total	C	O	P	0
			40	29	10	1	
26	Q	1	Total	C	O	P	0
			44	33	10	1	
26	R	1	Total	C	O	P	0
			42	31	10	1	
26	S	1	Total	C	O	P	0
			32	21	10	1	
26	T	1	Total	C	O	P	0
			42	31	10	1	
26	U	1	Total	C	O	P	0
			25	16	8	1	
26	W	1	Total	C	O	P	0
			42	31	10	1	
26	X	1	Total	C	O	P	0
			42	31	10	1	
26	A	1	Total	C	O	P	0
			49	38	10	1	

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
26	A	1	49	38	10	1	0

- Molecule 27 is DODECYL-ALPHA-D-MALTOSE (CCD ID: LMU) (formula: $C_{24}H_{46}O_{11}$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
27	B	1	24	18	6	0
27	B	1	24	18	6	0
27	B	1	19	14	5	0
27	B	1	24	18	6	0
27	B	1	24	18	6	0
27	B	1	35	24	11	0
27	B	1	15	14	1	0
27	F	1	21	15	6	0
27	F	1	21	15	6	0
27	G	1	21	15	6	0

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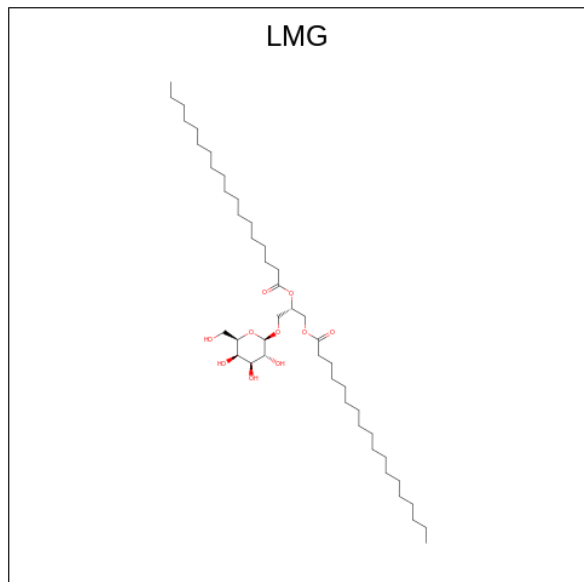
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
27	H	1	21	15	6	0
27	H	1	24	18	6	0
27	H	1	33	23	10	0
27	J	1	34	24	10	0
27	K	1	33	23	10	0
27	L	1	24	18	6	0
27	L	1	27	21	6	0
27	L	1	34	24	10	0
27	M	1	24	18	6	0
27	O	1	24	18	6	0
27	O	1	35	24	11	0
27	O	1	26	22	4	0
27	O	1	35	24	11	0
27	T	1	21	15	6	0
27	T	1	24	18	6	0
27	T	1	24	18	6	0
27	U	1	35	24	11	0
27	U	1	35	24	11	0
27	U	1	24	18	6	0
27	W	1	24	18	6	0
27	X	1	24	18	6	0

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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
27	X	1	35	24	11	0
27	A	1	24	18	6	0
27	A	1	35	24	11	0
27	A	1	21	15	6	0
27	A	1	24	18	6	0

- Molecule 28 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: $C_{45}H_{86}O_{10}$) (labeled as "Ligand of Interest" by depositor).



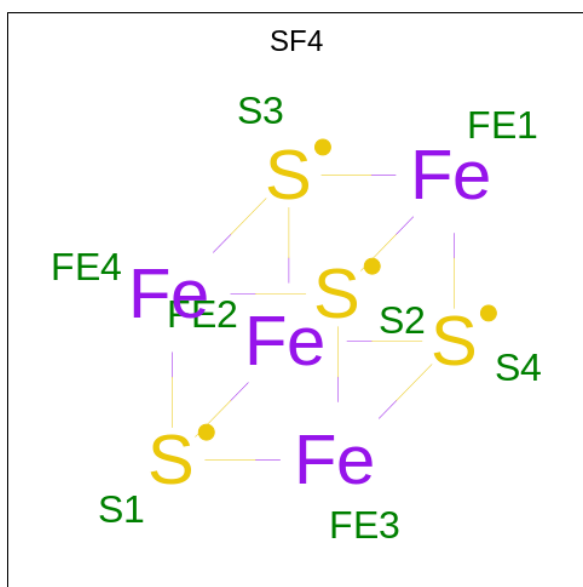
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
28	B	1	43	33	10	0
28	B	1	53	43	10	0
28	F	1	42	32	10	0
28	G	1	46	36	10	0
28	H	1	43	33	10	0
28	H	1	40	30	10	0

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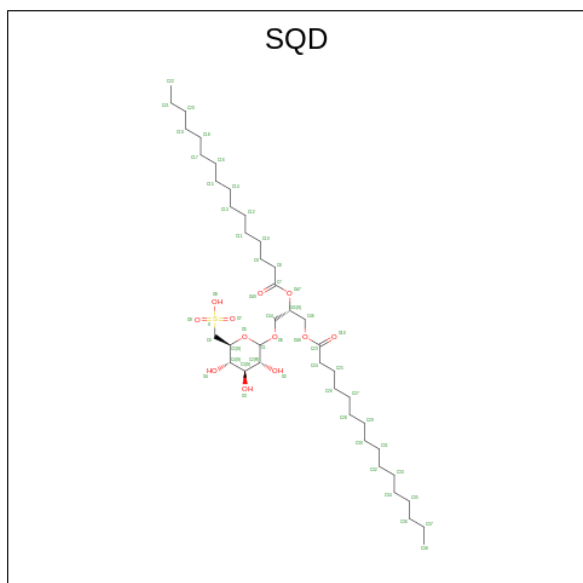
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
28	H	1	37	27	10	0
28	I	1	37	27	10	0
28	I	1	50	41	9	0
28	J	1	55	45	10	0
28	K	1	43	33	10	0
28	K	1	49	39	10	0
28	K	1	43	33	10	0
28	L	1	51	41	10	0
28	N	1	44	34	10	0
28	Q	1	37	27	10	0
28	T	1	41	31	10	0
28	U	1	53	43	10	0
28	U	1	49	39	10	0
28	W	1	48	38	10	0
28	A	1	41	31	10	0

- Molecule 29 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄) (labeled as "Ligand of Interest" by depositor).



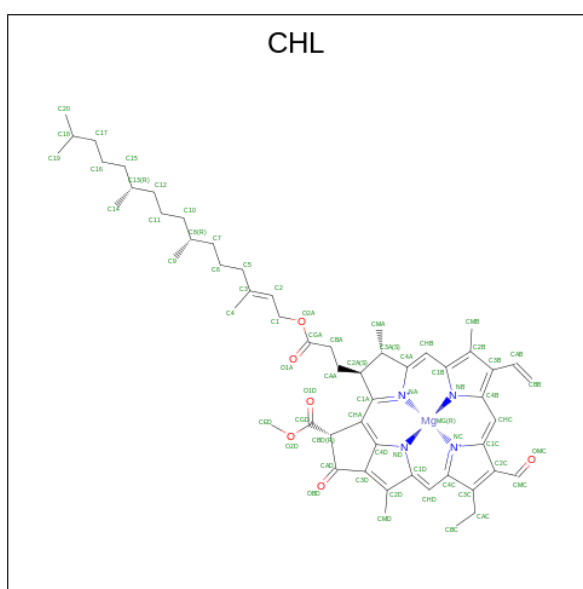
Mol	Chain	Residues	Atoms			AltConf
			Total	Fe	S	
29	B	1	8	4	4	0
29	C	1	8	4	4	0
29	C	1	8	4	4	0

- Molecule 30 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: $C_{41}H_{78}O_{12}S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
30	F	1	Total	C	O	S	0
			42	29	12	1	
30	K	1	Total	C	O	S	0
			43	30	12	1	
30	O	1	Total	C	O	S	0
			42	29	12	1	
30	V	1	Total	C	O	S	0
			27	16	10	1	

- Molecule 31 is CHLOROPHYLL B (CCD ID: CHL) (formula: $C_{55}H_{70}MgN_4O_6$) (labeled as "Ligand of Interest" by depositor).



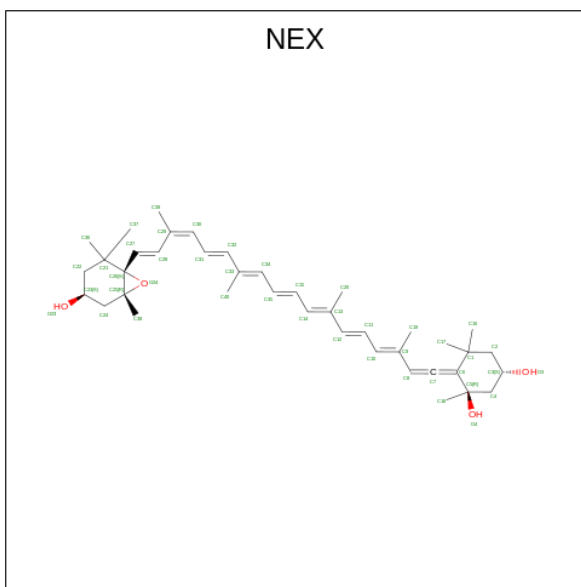
Mol	Chain	Residues	Atoms					AltConf
31	U	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
31	U	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
31	V	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
31	V	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
31	W	1	Total	C	Mg	N	O	0
			46	35	1	4	6	
31	W	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
31	W	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

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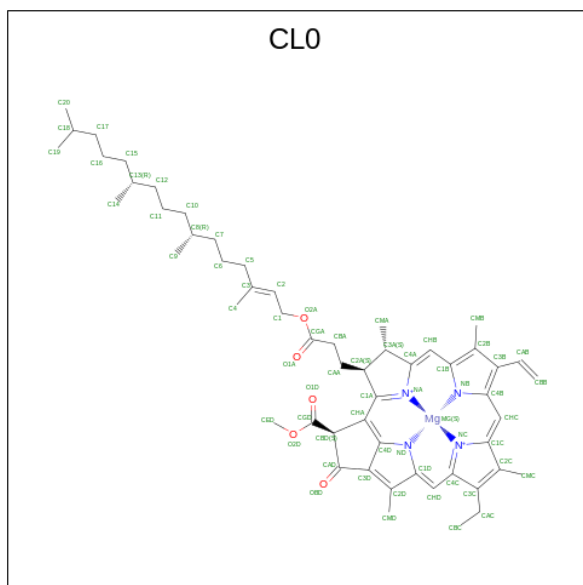
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
31	X	1	46	35	1	4	6	0

- Molecule 32 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-TETRAMETHYLOCTADEC-1,3,5,7,9,11,13,15,17-NONAENYLIDENE]-1,5,5-TRIMETHYLCYCLOHEXANE-1,3-DIOL (CCD ID: NEX) (formula: C₄₀H₅₆O₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
32	U	1	44	40	4	0
32	V	1	44	40	4	0

- Molecule 33 is CHLOROPHYLL A ISOMER (CCD ID: CL0) (formula: C₅₅H₇₂MgN₄O₅) (labeled as "Ligand of Interest" by depositor).

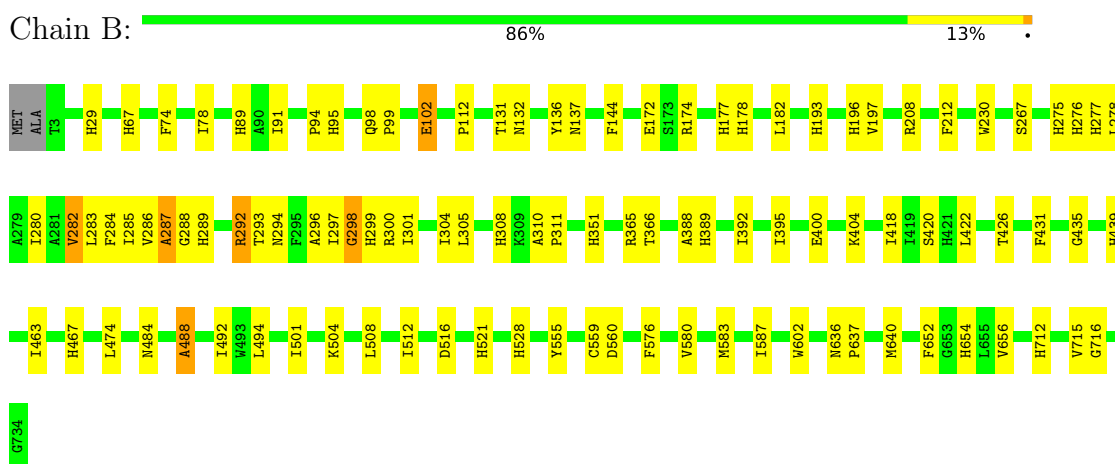


Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
33	A	1	65	55	1	4	5	0

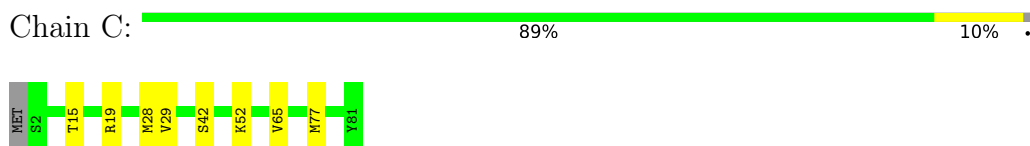
3 Residue-property plots

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

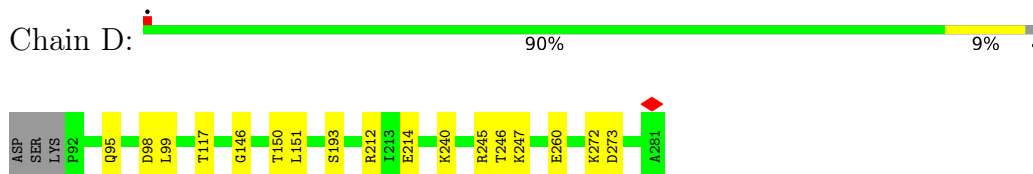
- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A2



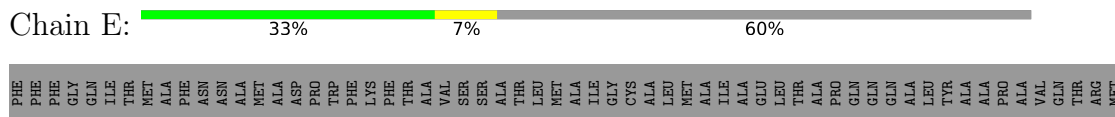
- Molecule 2: Photosystem I iron-sulfur center

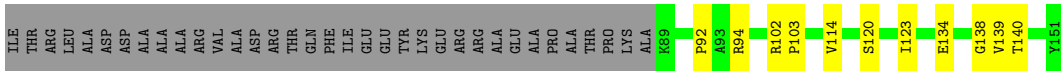


- Molecule 3: PsaD

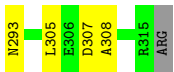
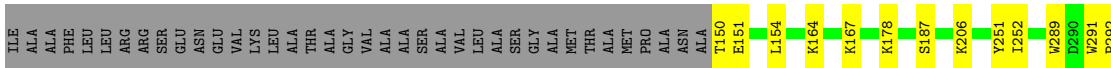
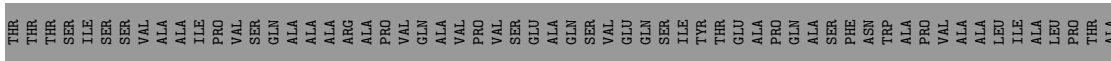
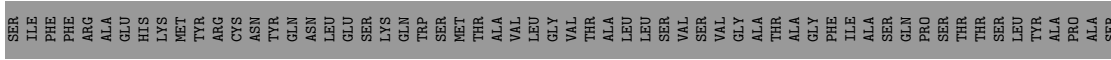


- Molecule 4: PsaE

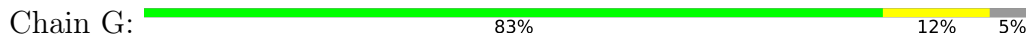




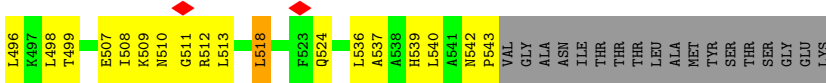
• Molecule 5: PsaF



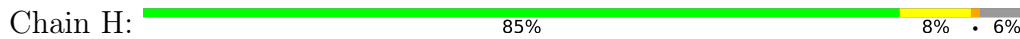
• Molecule 6: Lhce5.7



• Molecule 6: Lhce5.7



• Molecule 7: Lhce7.3

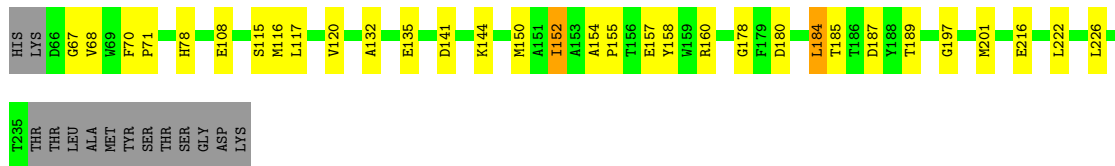


• Molecule 8: Lhce5

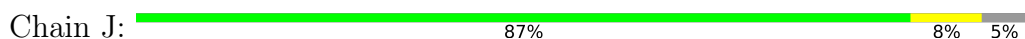


THR
THR
THR
LEU
ALA
MET
TYR
SER
SER
GLY
ASP
LYS

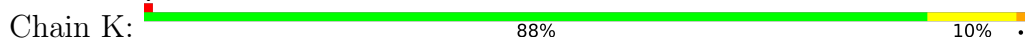
• Molecule 8: Lhce5



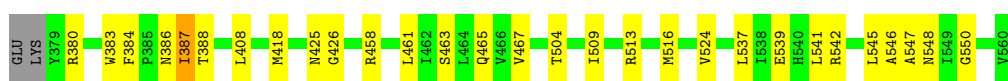
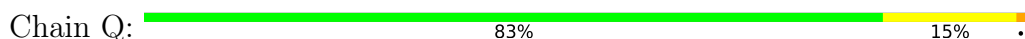
• Molecule 9: PsaJ



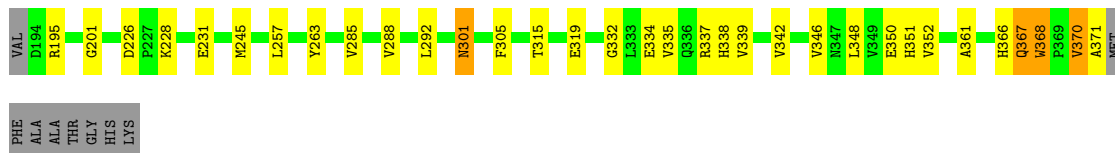
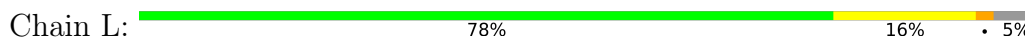
• Molecule 10: LhcE6



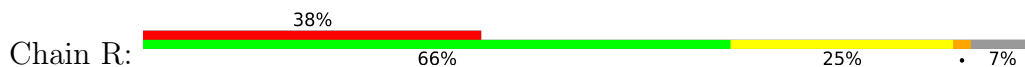
• Molecule 10: LhcE6

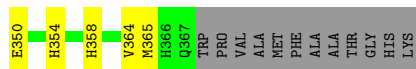
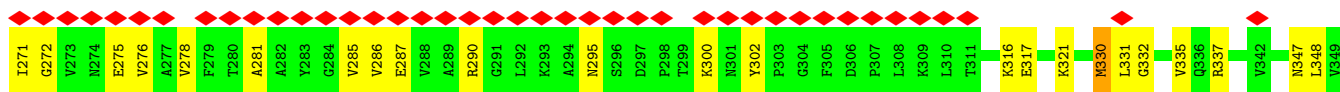


• Molecule 11: Lhce8

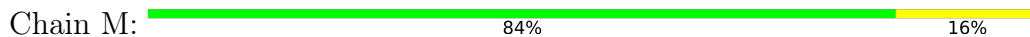


• Molecule 11: Lhce8

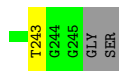
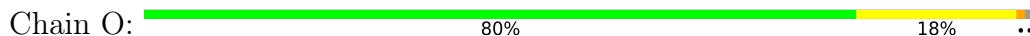




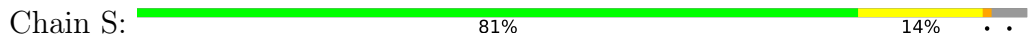
• Molecule 12: PsaM



• Molecule 13: LhcE7



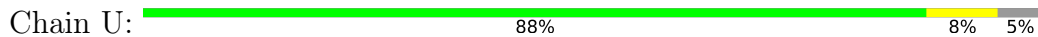
• Molecule 14: Lhce10



• Molecule 15: LhcE11

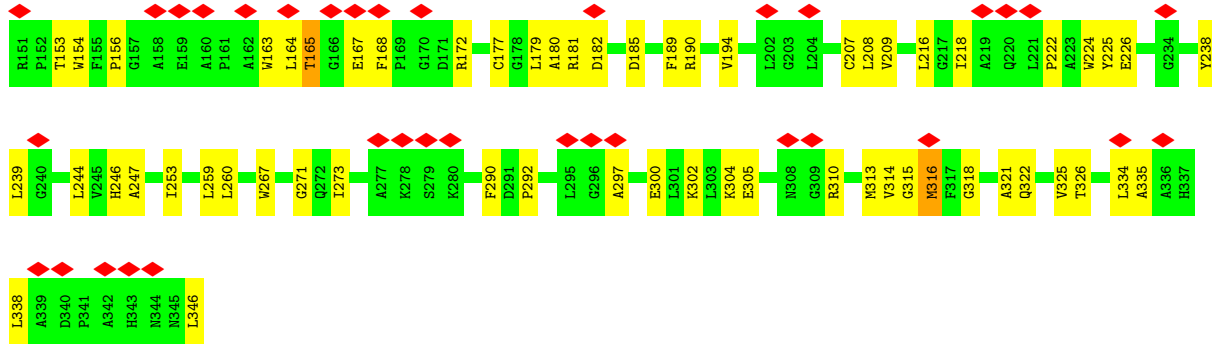


• Molecule 16: LhcbM4.6

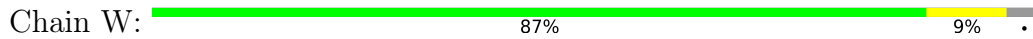


• Molecule 17: LhcbM4.10





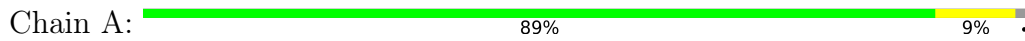
• Molecule 18: LhcbM2



• Molecule 19: LhcbM8



• Molecule 20: PsaA



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	51871	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50.0	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	0.393	Depositor
Minimum map value	-0.080	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.008	Depositor
Recommended contour level	0.04	Depositor
Map size (\AA)	496.64, 496.64, 496.64	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	0.97, 0.97, 0.97	Depositor

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: DGD, NEX, CL0, LMU, SQD, SF4, CHL, LMG, BCR, CLA, PQN, LHG, DD6

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	B	0.35	1/6078 (0.0%)	0.49	4/8287 (0.0%)
2	C	0.33	0/606	0.53	0/819
3	D	0.14	0/1525	0.38	0/2065
4	E	0.13	0/521	0.31	0/707
5	F	0.17	0/1288	0.46	0/1747
6	G	0.17	0/1360	0.39	0/1855
6	P	0.41	0/1279	0.68	1/1744 (0.1%)
7	H	0.32	0/1381	0.52	3/1876 (0.2%)
8	I	0.31	0/1278	0.56	0/1741
8	N	0.24	0/1307	0.46	0/1784
9	J	0.14	0/314	0.32	0/429
10	K	0.21	0/1492	0.49	0/2035
10	Q	0.20	0/1489	0.48	0/2034
11	L	0.35	0/1401	0.58	2/1910 (0.1%)
11	R	0.16	0/1365	0.41	0/1858
12	M	0.13	0/246	0.32	0/332
13	O	0.20	0/1397	0.46	0/1898
14	S	0.26	0/1370	0.46	0/1865
15	T	0.16	0/1320	0.40	0/1784
16	U	0.15	0/1566	0.37	0/2141
17	V	0.14	0/1566	0.33	0/2141
18	W	0.16	0/1719	0.38	0/2343
19	X	0.17	0/1731	0.37	0/2351
20	A	0.35	0/6073	0.49	1/8279 (0.0%)
All	All	0.27	1/39672 (0.0%)	0.47	11/54025 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	287	ALA	CA-C	-6.82	1.46	1.53

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	P	395	GLY	N-CA-C	-9.42	102.67	114.92
1	B	298	GLY	N-CA-C	8.87	120.52	111.56
1	B	287	ALA	N-CA-C	-6.79	102.39	111.96
7	H	149	GLY	O-C-N	-6.78	115.67	122.18
7	H	152	VAL	CB-CA-C	-5.83	104.18	112.22
1	B	282	VAL	N-CA-C	-5.81	97.26	109.34
11	L	361	ALA	N-CA-C	5.73	117.61	111.36
11	L	332	GLY	O-C-N	-5.67	116.24	122.24
20	A	446	ILE	O-C-N	-5.62	116.41	121.91
7	H	150	LEU	N-CA-C	5.60	118.15	111.71
1	B	292	ARG	N-CA-C	5.53	117.67	110.43

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	5868	0	5667	91	0
2	C	596	0	571	6	0
3	D	1489	0	1462	9	0
4	E	509	0	489	5	0
5	F	1262	0	1293	10	0
6	G	1323	0	1305	15	0
6	P	1243	0	1218	39	0
7	H	1342	0	1315	9	0
8	I	1242	0	1213	25	0
8	N	1271	0	1245	27	0
9	J	305	0	314	4	0
10	K	1444	0	1391	17	0
10	Q	1440	0	1388	26	0
11	L	1364	0	1346	27	0
11	R	1331	0	1315	45	0
12	M	242	0	258	8	0
13	O	1359	0	1328	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	S	1327	0	1271	18	0
15	T	1283	0	1238	6	0
16	U	1517	0	1466	14	0
17	V	1513	0	1467	56	0
18	W	1669	0	1647	15	0
19	X	1688	0	1693	10	0
20	A	5872	0	5735	55	0
21	A	160	0	224	8	0
21	B	240	0	336	21	0
21	J	40	0	56	1	0
21	M	40	0	56	3	0
22	A	2638	0	2742	77	0
22	B	2341	0	2395	78	0
22	F	165	0	154	6	0
22	G	571	0	498	10	0
22	H	698	0	626	10	0
22	I	567	0	490	17	0
22	J	50	0	39	1	0
22	K	765	0	758	33	0
22	L	703	0	694	30	0
22	N	570	0	504	19	0
22	O	651	0	585	20	0
22	P	446	0	326	10	0
22	Q	738	0	655	20	0
22	R	678	0	653	29	0
22	S	621	0	530	14	0
22	T	625	0	603	10	0
22	U	676	0	586	14	0
22	V	625	0	548	32	0
22	W	733	0	694	18	0
22	X	741	0	716	7	0
23	A	33	0	46	2	0
23	B	33	0	46	1	0
24	A	129	0	0	0	0
24	B	43	0	0	1	0
24	F	43	0	0	0	0
24	G	86	0	0	0	0
24	H	86	0	0	0	0
24	I	86	0	0	0	0
24	J	43	0	0	0	0
24	K	86	0	0	0	0
24	L	129	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	N	86	0	0	0	0
24	O	86	0	0	0	0
24	P	86	0	0	0	0
24	Q	86	0	0	1	0
24	R	86	0	0	0	0
24	S	86	0	0	1	0
24	T	86	0	0	0	0
24	U	86	0	0	0	0
24	V	86	0	0	0	0
24	W	129	0	0	0	0
24	X	172	0	0	0	0
25	B	66	0	96	6	0
25	F	34	0	50	2	0
25	O	60	0	81	3	0
26	A	98	0	148	3	0
26	B	69	0	81	8	0
26	G	32	0	34	0	0
26	H	27	0	24	0	0
26	K	72	0	84	3	0
26	L	42	0	57	3	0
26	N	71	0	82	2	0
26	O	168	0	228	4	0
26	P	40	0	53	1	0
26	Q	44	0	61	1	0
26	R	42	0	57	3	0
26	S	32	0	34	2	0
26	T	42	0	57	1	0
26	U	25	0	21	0	0
26	W	42	0	57	2	0
26	X	42	0	57	0	0
27	A	104	0	142	2	0
27	B	165	0	233	10	0
27	F	42	0	52	1	0
27	G	21	0	26	0	0
27	H	78	0	103	2	0
27	J	34	0	44	0	0
27	K	33	0	42	2	0
27	L	85	0	110	6	0
27	M	24	0	35	1	0
27	O	120	0	155	4	0
27	T	69	0	96	2	0
27	U	94	0	127	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	W	24	0	35	0	0
27	X	59	0	81	0	0
28	A	41	0	52	0	0
28	B	96	0	138	4	0
28	F	42	0	54	3	0
28	G	46	0	65	0	0
28	H	120	0	150	2	0
28	I	87	0	117	1	0
28	J	55	0	86	1	0
28	K	135	0	183	3	0
28	L	51	0	75	0	0
28	N	44	0	61	1	0
28	Q	37	0	44	2	0
28	T	41	0	52	2	0
28	U	102	0	150	4	0
28	W	48	0	69	3	0
29	B	8	0	0	0	0
29	C	16	0	0	0	0
30	F	42	0	48	2	0
30	K	43	0	50	1	0
30	O	42	0	48	8	0
30	V	27	0	25	1	0
31	U	92	0	62	7	0
31	V	92	0	62	14	0
31	W	178	0	171	10	0
31	X	46	0	31	0	0
32	U	44	0	56	4	0
32	V	44	0	56	9	0
33	A	65	0	72	6	0
All	All	60137	0	57815	901	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 8.

All (901) 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)
23:B:840:PQN:H291	25:B:847:DGD:HBT1	1.23	1.10
31:V:605:CHL:HAB	31:V:606:CHL:OMC	1.50	1.08
8:N:184:LEU:HD12	22:N:607:CLA:H42	1.41	1.01
6:P:391:ALA:HB2	6:P:404:ASP:HB3	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:131:THR:HB	12:M:1:MET:HE1	1.46	0.94
28:F:408:LMG:H122	22:W:402:CLA:HAB	1.55	0.89
13:O:135:PHE:HE2	30:O:302:SQD:H82	1.38	0.89
13:O:135:PHE:CE2	30:O:302:SQD:H82	2.09	0.88
11:L:315:THR:HG21	22:L:408:CLA:H12	1.54	0.87
22:L:404:CLA:HMC1	22:L:417:CLA:HBB2	1.57	0.87
33:A:802:CL0:H2	33:A:802:CL0:H15	1.57	0.85
1:B:293:THR:HG22	1:B:294:ASN:H	1.41	0.85
31:V:605:CHL:CAB	31:V:606:CHL:OMC	2.24	0.84
17:V:273:ILE:HG21	32:V:616:NEX:H172	1.60	0.83
22:V:604:CLA:C1C	32:V:616:NEX:H222	2.08	0.83
22:L:404:CLA:CMC	22:L:417:CLA:CBB	2.57	0.83
8:I:222:LEU:HD11	22:I:611:CLA:HBC2	1.62	0.82
14:S:223:VAL:HG21	22:S:610:CLA:HAC2	1.62	0.81
22:V:604:CLA:CHC	32:V:616:NEX:H362	2.12	0.80
11:R:233:MET:HE1	22:R:602:CLA:H3A	1.63	0.79
22:B:833:CLA:H203	31:U:408:CHL:HMD1	1.67	0.77
22:A:828:CLA:HED1	22:A:836:CLA:HAB	1.65	0.76
22:L:404:CLA:HMC1	22:L:417:CLA:CBB	2.16	0.76
12:M:20:PHE:CD2	22:O:311:CLA:H42	2.21	0.75
28:K:601:LMG:H302	22:K:613:CLA:HMA2	1.69	0.75
20:A:408:HIS:HE1	22:A:831:CLA:NA	1.85	0.74
6:P:388:GLN:O	6:P:390:PRO:HD3	1.87	0.74
22:B:822:CLA:HAB	22:B:829:CLA:HMD1	1.69	0.74
8:I:65:LYS:HE2	8:I:65:LYS:H	1.53	0.74
1:B:95:HIS:HE1	22:B:809:CLA:NB	1.83	0.73
8:I:158:TYR:CE2	22:K:607:CLA:HBA1	2.24	0.73
22:A:819:CLA:HBB1	22:A:819:CLA:HHC	1.69	0.73
11:L:315:THR:CG2	22:L:408:CLA:H12	2.18	0.73
31:V:605:CHL:CMC	31:V:606:CHL:C4C	2.67	0.73
22:L:404:CLA:HMC3	22:L:417:CLA:CBB	2.18	0.72
17:V:305:GLU:OE2	22:V:609:CLA:NB	2.22	0.72
6:P:383:TRP:HE3	6:P:384:PHE:H	1.35	0.72
3:D:212:ARG:NH2	3:D:214:GLU:OE2	2.23	0.72
1:B:292:ARG:HD3	1:B:300:ARG:HD3	1.70	0.72
1:B:389:HIS:HE1	22:B:828:CLA:NA	1.88	0.71
8:I:193:GLU:OE2	22:I:607:CLA:NB	2.24	0.71
11:R:195:ARG:HH21	11:R:210:GLY:H	1.38	0.71
20:A:121:ILE:HG13	20:A:122:VAL:HG13	1.72	0.71
1:B:230:TRP:HB2	22:B:815:CLA:H12	1.72	0.70
31:V:605:CHL:C1C	31:V:606:CHL:HBC2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:335:VAL:HG11	22:R:610:CLA:HAC2	1.71	0.70
8:N:68:VAL:HG12	8:N:70:PHE:H	1.57	0.70
1:B:292:ARG:HD3	1:B:300:ARG:CD	2.22	0.69
5:F:307:ASP:OD2	5:F:308:ALA:N	2.25	0.69
28:H:319:LMG:H132	30:K:621:SQD:H121	1.75	0.69
8:N:160:ARG:NH2	22:N:606:CLA:O1D	2.25	0.69
17:V:334:LEU:HD11	22:V:613:CLA:HBB1	1.75	0.69
1:B:178:HIS:CD2	22:B:812:CLA:NB	2.61	0.69
10:K:390:PRO:HG2	10:K:393:LEU:HD12	1.74	0.69
20:A:94:HIS:HE1	22:A:809:CLA:NA	1.91	0.68
22:N:610:CLA:HBA1	22:N:610:CLA:HBD	1.75	0.68
11:R:232:ARG:HB3	11:R:295:ASN:HD22	1.58	0.68
22:R:604:CLA:H3A	22:R:605:CLA:H152	1.74	0.68
1:B:282:VAL:HG13	24:B:841:DD6:C7	2.23	0.67
22:K:613:CLA:H42	22:L:417:CLA:OBD	1.94	0.67
22:A:811:CLA:HBD	22:A:811:CLA:HBA1	1.77	0.67
1:B:292:ARG:HH21	1:B:296:ALA:HA	1.60	0.67
10:Q:418:MET:HE1	22:Q:604:CLA:H43	1.75	0.67
1:B:287:ALA:O	1:B:289:HIS:N	2.27	0.67
6:P:537:ALA:O	6:P:540:LEU:HB3	1.95	0.67
11:R:229:VAL:HA	11:R:232:ARG:HG2	1.76	0.67
22:A:822:CLA:H171	22:A:832:CLA:HBC1	1.77	0.67
8:I:65:LYS:HE2	8:I:65:LYS:N	2.09	0.66
2:C:15:THR:HG22	2:C:28:MET:HE2	1.78	0.66
17:V:315:GLY:HA2	22:V:612:CLA:HBB1	1.76	0.66
22:Q:610:CLA:NB	26:Q:616:LHG:O4	2.29	0.66
28:N:615:LMG:H211	22:O:315:CLA:HBB1	1.76	0.66
1:B:94:PRO:HB3	27:B:854:LMU:H51	1.78	0.66
22:G:603:CLA:H93	22:K:603:CLA:H112	1.78	0.66
10:K:496:PRO:HA	27:K:620:LMU:H3'	1.77	0.66
6:P:381:GLY:HA3	22:P:608:CLA:HBB1	1.77	0.66
12:M:24:LYS:HE3	27:M:102:LMU:H6E	1.79	0.65
11:R:272:GLY:H	11:R:275:GLU:HB2	1.61	0.65
10:Q:425:ASN:HD22	22:Q:604:CLA:HBB2	1.61	0.65
28:T:616:LMG:H371	22:A:816:CLA:H141	1.76	0.65
20:A:704:HIS:HE1	22:A:841:CLA:C4D	2.10	0.65
26:B:851:LHG:H131	27:L:419:LMU:H12	1.78	0.65
6:P:411:ASP:HB3	6:P:414:VAL:HG12	1.79	0.65
22:V:604:CLA:NC	32:V:616:NEX:H222	2.11	0.64
6:P:399:ALA:O	22:P:602:CLA:HED1	1.96	0.64
22:N:606:CLA:HHC	22:N:606:CLA:HBB1	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:233:MET:CE	22:R:602:CLA:H3A	2.28	0.64
13:O:135:PHE:CZ	30:O:302:SQD:H111	2.34	0.63
6:P:391:ALA:HB2	6:P:404:ASP:CB	2.25	0.63
20:A:704:HIS:HE1	22:A:841:CLA:ND	1.97	0.63
6:P:474:ARG:HH12	22:P:606:CLA:HED1	1.62	0.63
6:G:426:ALA:HB1	6:G:511:GLY:HA3	1.81	0.63
13:O:100:LEU:CD2	22:V:603:CLA:H43	2.27	0.63
22:W:412:CLA:H8	22:W:413:CLA:C4D	2.26	0.63
10:K:544:PRO:HB2	10:K:545:LEU:HD13	1.81	0.62
20:A:329:HIS:HD2	22:A:824:CLA:NB	1.97	0.62
1:B:144:PHE:HB2	28:B:856:LMG:H222	1.80	0.62
19:X:301:HIS:CD2	22:X:413:CLA:NC	2.67	0.62
22:A:840:CLA:H122	21:A:849:BCR:H312	1.82	0.62
11:L:231:GLU:N	11:L:231:GLU:OE1	2.31	0.62
17:V:156:PRO:HG2	22:V:601:CLA:HBB1	1.82	0.62
1:B:287:ALA:C	1:B:289:HIS:H	2.08	0.61
5:F:293:ASN:ND2	22:W:410:CLA:O1A	2.31	0.61
31:V:605:CHL:C2C	31:V:606:CHL:HBC2	2.29	0.61
22:B:833:CLA:H203	31:U:408:CHL:CMD	2.29	0.61
31:V:605:CHL:HAB	31:V:606:CHL:CMC	2.27	0.61
22:K:607:CLA:HHC	22:K:607:CLA:HBB1	1.82	0.61
11:R:302:TYR:OH	11:R:316:LYS:NZ	2.28	0.61
22:B:859:CLA:HBA1	22:B:859:CLA:HBD	1.83	0.61
7:H:12:ILE:HG13	7:H:13:PRO:HD2	1.82	0.61
8:I:195:LYS:HB3	22:I:608:CLA:HMD2	1.83	0.61
15:T:372:LEU:HB2	15:T:374:MET:HE2	1.83	0.61
27:H:321:LMU:H123	22:A:824:CLA:H203	1.82	0.61
19:X:211:LYS:H	22:X:419:CLA:HBB1	1.65	0.61
11:R:253:VAL:HG11	22:R:604:CLA:HAC2	1.83	0.60
8:I:154:ALA:HA	22:I:606:CLA:HAB	1.82	0.60
1:B:196:HIS:HE1	22:B:814:CLA:C1C	2.05	0.60
8:I:201:MET:HE1	22:I:602:CLA:HAB	1.84	0.60
30:O:302:SQD:O7	10:Q:545:LEU:HB2	2.01	0.60
1:B:560:ASP:OD1	2:C:52:LYS:NZ	2.30	0.60
7:H:42:VAL:O	7:H:46:MET:HG2	2.01	0.60
22:P:608:CLA:HBD	22:P:609:CLA:HMD3	1.84	0.59
17:V:335:ALA:HA	17:V:338:LEU:HD12	1.84	0.59
11:R:261:ALA:O	11:R:265:ALA:N	2.29	0.59
11:R:233:MET:HA	11:R:236:SER:HB3	1.85	0.59
19:X:257:LYS:HA	19:X:257:LYS:HE2	1.82	0.59
27:L:420:LMU:H51	22:A:834:CLA:HBB1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:L:334:GLU:O	11:L:334:GLU:HG3	2.02	0.59
22:Q:607:CLA:HBB1	11:R:199:PHE:CE1	2.38	0.59
17:V:322:GLN:NE2	22:V:612:CLA:O1D	2.36	0.59
18:W:179:GLU:OE2	18:W:179:GLU:N	2.30	0.59
22:A:839:CLA:HBC2	27:A:854:LMU:H91	1.85	0.59
17:V:179:LEU:HD13	22:V:602:CLA:H42	1.85	0.59
22:B:829:CLA:HBB1	22:B:829:CLA:HMB1	1.85	0.59
7:H:38:LYS:HE2	7:H:38:LYS:HA	1.85	0.58
14:S:208:ILE:HD12	14:S:208:ILE:H	1.68	0.58
17:V:165:THR:OG1	17:V:167:GLU:OE2	2.20	0.58
17:V:207:CYS:HG	17:V:224:TRP:CD1	2.22	0.58
31:V:605:CHL:HMC	31:V:606:CHL:C1C	2.34	0.58
8:I:150:MET:HE1	28:K:601:LMG:H172	1.85	0.58
13:O:106:VAL:O	13:O:110:MET:HG2	2.03	0.58
6:G:446:ALA:HB3	6:G:449:GLU:HG2	1.86	0.58
13:O:177:ASP:OD1	13:O:177:ASP:N	2.36	0.57
6:P:460:GLY:C	10:Q:461:LEU:HD21	2.29	0.57
13:O:179:PRO:HD3	10:Q:386:ASN:O	2.03	0.57
1:B:275:HIS:HE1	22:B:815:CLA:C4D	2.18	0.57
8:I:64:HIS:N	8:I:65:LYS:HZ3	2.02	0.57
1:B:193:HIS:HB2	22:B:813:CLA:CHC	2.34	0.57
1:B:712:HIS:HE1	22:B:838:CLA:ND	2.02	0.57
22:V:612:CLA:H62	22:V:612:CLA:H193	1.86	0.57
22:B:802:CLA:HMB2	22:A:804:CLA:OBD	2.05	0.57
22:R:610:CLA:HAB	22:R:610:CLA:H121	1.87	0.57
11:R:226:ASP:HB3	11:R:229:VAL:HB	1.86	0.57
21:B:801:BCR:HC8	21:B:801:BCR:H331	1.86	0.57
31:V:605:CHL:HMC	31:V:606:CHL:NC	2.20	0.57
8:N:154:ALA:HB3	8:N:155:PRO:HD3	1.87	0.57
1:B:463:ILE:HD11	22:B:834:CLA:H2	1.87	0.56
10:K:523:GLU:OE2	22:K:617:CLA:NA	2.38	0.56
8:N:184:LEU:HG	22:N:607:CLA:H11	1.87	0.56
8:N:197:GLY:O	8:N:201:MET:HG3	2.05	0.56
22:G:608:CLA:H71	22:G:609:CLA:C4D	2.35	0.56
11:R:331:LEU:HD21	22:R:615:CLA:H52	1.86	0.56
17:V:346:LEU:HD22	22:V:612:CLA:H43	1.87	0.56
1:B:654:HIS:NE2	22:B:802:CLA:NA	2.53	0.56
13:O:195:GLU:OE2	27:O:301:LMU:C2'	2.52	0.56
6:P:539:HIS:HA	6:P:542:ASN:CG	2.31	0.56
10:Q:461:LEU:O	10:Q:465:GLN:HG2	2.06	0.56
22:U:406:CLA:H2	31:U:407:CHL:HBD	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:150:THR:OG1	5:F:151:GLU:N	2.33	0.56
3:D:150:THR:OG1	3:D:151:LEU:N	2.39	0.56
1:B:174:ARG:O	1:B:178:HIS:HB2	2.06	0.56
6:P:393:LEU:HD11	6:P:402:GLY:HA2	1.88	0.56
6:P:542:ASN:HB2	6:P:543:PRO:HD2	1.88	0.56
1:B:29:HIS:HE1	22:B:803:CLA:NB	2.00	0.56
10:Q:504:THR:HG22	22:Q:609:CLA:HBB	1.87	0.56
20:A:37:ARG:HH22	20:A:62:HIS:HA	1.70	0.56
17:V:325:VAL:HG23	17:V:326:THR:HG23	1.88	0.56
11:R:248:ILE:HA	11:R:330:MET:HE1	1.87	0.55
1:B:488:ALA:HB2	16:U:232:ASN:OD1	2.06	0.55
8:I:183:LYS:HE2	8:I:183:LYS:N	2.20	0.55
1:B:292:ARG:NH1	1:B:292:ARG:HB3	2.21	0.55
1:B:293:THR:HG22	1:B:294:ASN:N	2.17	0.55
7:H:168:HIS:CD2	22:H:312:CLA:NC	2.74	0.55
14:S:164:MET:HB3	15:T:337:MET:HE3	1.88	0.55
4:E:134:GLU:OE2	4:E:138:GLY:HA2	2.07	0.55
9:J:37:ARG:NH2	22:J:102:CLA:O1D	2.31	0.55
14:S:220:GLY:O	14:S:224:GLN:HG3	2.07	0.55
19:X:258:ASP:OD1	19:X:259:GLU:N	2.39	0.55
31:V:605:CHL:C2C	31:V:606:CHL:CBC	2.85	0.55
22:B:830:CLA:O1A	5:F:305:LEU:HD11	2.06	0.55
6:P:433:ILE:HG12	6:P:518:LEU:HD22	1.88	0.55
26:B:851:LHG:H292	27:B:854:LMU:H12	1.89	0.54
8:N:144:LYS:HG3	13:O:149:ASN:ND2	2.22	0.54
22:O:305:CLA:HBA2	26:O:318:LHG:H251	1.89	0.54
10:K:521:GLY:O	10:K:525:GLN:HG3	2.07	0.54
6:P:398:PRO:O	6:P:399:ALA:C	2.51	0.54
6:P:391:ALA:C	6:P:392:HIS:CG	2.85	0.54
20:A:201:HIS:CD2	22:A:815:CLA:NB	2.74	0.54
10:Q:539:GLU:HG3	10:Q:547:ALA:HB1	1.90	0.54
33:A:802:CL0:CGD	33:A:802:CL0:H8	2.38	0.54
8:I:132:ALA:N	8:I:135:GLU:OE2	2.40	0.54
22:K:609:CLA:HMB2	22:A:844:CLA:H11	1.89	0.54
22:L:408:CLA:CGA	22:L:408:CLA:H3A	2.38	0.54
10:Q:548:ASN:HD21	28:Q:602:LMG:HC8	1.71	0.54
1:B:283:LEU:C	1:B:285:ILE:N	2.66	0.54
22:L:408:CLA:H43	22:L:410:CLA:H11	1.90	0.54
13:O:180:ASP:OD2	13:O:181:ARG:N	2.40	0.54
6:G:494:ASP:OD2	6:G:499:THR:OG1	2.22	0.53
22:L:404:CLA:CMC	22:L:417:CLA:HBB2	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:178:GLY:HA2	22:N:607:CLA:HED1	1.90	0.53
20:A:75:SER:OG	20:A:181:TYR:HB2	2.08	0.53
1:B:102:GLU:N	1:B:102:GLU:OE1	2.41	0.53
16:U:251:SER:HB3	22:U:401:CLA:HBD	1.89	0.53
20:A:491:HIS:HE1	22:A:836:CLA:NB	2.05	0.53
8:I:195:LYS:HE3	22:I:608:CLA:C3D	2.39	0.53
10:K:543:HIS:HB3	10:K:546:ALA:HB3	1.89	0.53
1:B:712:HIS:HE1	22:B:838:CLA:C4D	2.21	0.53
26:R:614:LHG:H112	26:R:614:LHG:H291	1.89	0.53
17:V:267:TRP:HH2	32:V:616:NEX:C19	2.21	0.53
21:B:801:BCR:H331	23:A:843:PQN:H193	1.90	0.53
26:N:614:LHG:O3	26:N:614:LHG:O1	2.24	0.53
13:O:184:PRO:HB3	22:Q:601:CLA:HBC2	1.89	0.53
22:Q:607:CLA:HBB1	11:R:199:PHE:HE1	1.74	0.53
11:L:335:VAL:O	11:L:339:VAL:HG23	2.09	0.53
22:P:602:CLA:HMB1	22:P:602:CLA:HBB1	1.90	0.53
11:R:354:HIS:HB2	11:R:358:HIS:CE1	2.43	0.53
8:N:216:GLU:N	8:N:216:GLU:OE1	2.41	0.53
1:B:431:PHE:HZ	21:B:801:BCR:H341	1.74	0.53
13:O:227:THR:O	13:O:231:GLU:HG2	2.09	0.53
22:R:605:CLA:O2A	22:R:605:CLA:H2A	2.09	0.52
33:A:802:CL0:H2	33:A:802:CL0:CBB	2.36	0.52
5:F:164:LYS:HA	5:F:167:LYS:HE2	1.90	0.52
11:L:351:HIS:CD2	22:L:412:CLA:NC	2.78	0.52
10:Q:458:ARG:NH2	11:R:364:VAL:O	2.39	0.52
18:W:303:PHE:HE1	22:W:409:CLA:HBA2	1.75	0.52
22:W:414:CLA:H202	22:W:415:CLA:HBC1	1.91	0.52
31:W:407:CHL:C3C	31:W:408:CHL:HBC3	2.39	0.52
10:K:486:LYS:HD2	10:K:486:LYS:N	2.24	0.52
11:L:301:ASN:OD1	11:L:301:ASN:N	2.39	0.52
11:L:315:THR:HG22	22:L:408:CLA:HHB	1.91	0.52
6:P:395:GLY:HA2	6:P:400:ASP:HB3	1.90	0.52
1:B:292:ARG:HG3	1:B:299:HIS:N	2.25	0.52
1:B:528:HIS:CD2	22:B:836:CLA:NB	2.77	0.52
22:B:806:CLA:H43	27:B:855:LMU:H111	1.92	0.52
6:G:530:GLU:OE1	6:G:530:GLU:N	2.43	0.52
15:T:261:LYS:H	27:A:857:LMU:H2'	1.74	0.52
28:W:401:LMG:H341	31:W:408:CHL:C4	2.39	0.52
20:A:308:ALA:HB2	22:A:822:CLA:HBC2	1.92	0.52
6:P:542:ASN:O	6:P:543:PRO:C	2.52	0.51
1:B:467:HIS:CD2	22:B:833:CLA:ND	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:189:THR:HG22	22:I:607:CLA:HBB	1.91	0.51
33:A:802:CL0:H13	22:A:852:CLA:OBD	2.09	0.51
1:B:278:LEU:O	1:B:278:LEU:HG	2.09	0.51
1:B:418:ILE:HG23	22:B:836:CLA:HBB2	1.91	0.51
6:G:546:ALA:HB1	22:G:610:CLA:HED1	1.92	0.51
17:V:224:TRP:CZ3	31:V:606:CHL:HMA1	2.45	0.51
1:B:512:ILE:HG22	1:B:516:ASP:OD2	2.10	0.51
6:P:457:ILE:HG23	10:Q:461:LEU:HD12	1.92	0.51
10:Q:425:ASN:ND2	22:Q:604:CLA:HBB2	2.24	0.51
31:V:605:CHL:HBC2	31:V:606:CHL:HBC3	1.92	0.51
1:B:285:ILE:HG22	1:B:285:ILE:O	2.10	0.51
30:O:302:SQD:H132	22:O:308:CLA:CBC	2.41	0.51
6:P:382:VAL:HG22	6:P:383:TRP:CD2	2.45	0.51
20:A:57:HIS:HE1	22:A:806:CLA:NB	2.05	0.51
20:A:199:ASN:HB3	22:A:821:CLA:HMD1	1.93	0.51
6:P:539:HIS:O	6:P:540:LEU:C	2.54	0.51
11:R:236:SER:HB2	22:R:606:CLA:HED3	1.91	0.51
17:V:189:PHE:CD2	22:V:602:CLA:H12	2.46	0.51
30:O:302:SQD:H132	22:O:308:CLA:HBC2	1.93	0.51
10:K:492:PRO:HB3	22:K:606:CLA:HBC2	1.92	0.51
14:S:104:THR:O	14:S:108:MET:HG2	2.11	0.50
22:A:806:CLA:HBD	22:A:813:CLA:H2	1.92	0.50
1:B:299:HIS:HD1	1:B:304:ILE:HD11	1.76	0.50
21:B:843:BCR:H311	22:Q:613:CLA:HBB2	1.94	0.50
6:P:414:VAL:HG22	6:P:418:MET:SD	2.51	0.50
17:V:318:GLY:O	17:V:322:GLN:HG3	2.12	0.50
1:B:559:CYS:SG	20:A:578:PRO:HG3	2.51	0.50
16:U:267:TRP:HH2	32:U:418:NEX:C19	2.24	0.50
22:B:815:CLA:CHA	22:B:815:CLA:HBA1	2.41	0.50
11:L:348:LEU:HD13	22:L:412:CLA:HBC2	1.93	0.50
25:O:304:DGD:O1A	25:O:304:DGD:HE5	2.11	0.50
6:P:494:ASP:OD2	6:P:499:THR:OG1	2.29	0.50
14:S:72:VAL:HG11	14:S:77:ALA:HB3	1.92	0.50
16:U:188:LYS:HZ1	22:U:405:CLA:HBA1	1.75	0.50
26:K:616:LHG:O1	26:K:616:LHG:O3	2.26	0.50
22:S:610:CLA:HBA1	22:S:610:CLA:HBD	1.92	0.50
10:Q:524:VAL:HG11	22:Q:612:CLA:HAC2	1.94	0.50
22:V:601:CLA:HAA2	22:V:601:CLA:HED2	1.93	0.50
20:A:37:ARG:H	20:A:37:ARG:HD2	1.77	0.50
20:A:408:HIS:HE1	22:A:831:CLA:C4A	2.24	0.50
1:B:521:HIS:CD2	22:B:835:CLA:NB	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:A:50:TRP:O	20:A:51:ASN:HB2	2.12	0.50
1:B:283:LEU:O	1:B:285:ILE:N	2.46	0.49
22:L:408:CLA:H51	22:L:410:CLA:HMA3	1.92	0.49
8:N:158:TYR:CE2	22:O:309:CLA:HBA1	2.47	0.49
14:S:204:LYS:O	14:S:208:ILE:HD12	2.11	0.49
31:U:407:CHL:O2A	32:U:418:NEX:H403	2.12	0.49
13:O:229:LEU:HD13	22:O:314:CLA:HBC2	1.94	0.49
22:V:604:CLA:C1B	32:V:616:NEX:H383	2.42	0.49
11:R:243:LEU:HD13	22:R:606:CLA:HMD3	1.94	0.49
16:U:267:TRP:HH2	32:U:418:NEX:H191	1.78	0.49
1:B:297:ILE:HG13	22:B:819:CLA:HED2	1.93	0.49
11:L:370:VAL:HG22	11:L:371:ALA:N	2.27	0.49
12:M:20:PHE:CE2	22:O:311:CLA:H11	2.47	0.49
13:O:163:GLU:HG2	22:O:309:CLA:C1B	2.42	0.49
20:A:29:TRP:HH2	22:A:806:CLA:H42	1.76	0.49
22:B:830:CLA:HMB1	22:B:830:CLA:HBB1	1.94	0.49
26:B:851:LHG:H112	27:L:419:LMU:H1'	1.94	0.49
19:X:174:ALA:HB2	19:X:181:PHE:HD2	1.77	0.49
17:V:225:TYR:HA	31:V:606:CHL:CMA	2.42	0.49
22:F:403:CLA:H142	9:J:20:VAL:HG13	1.95	0.49
22:A:825:CLA:H141	26:A:846:LHG:H192	1.93	0.49
22:B:809:CLA:CMA	27:B:854:LMU:H71	2.42	0.49
28:W:401:LMG:H341	31:W:408:CHL:H42	1.95	0.49
6:G:511:GLY:O	6:G:515:MET:HG3	2.13	0.49
8:N:189:THR:HG22	22:N:607:CLA:HHB	1.94	0.49
1:B:292:ARG:HD3	1:B:300:ARG:HD2	1.95	0.49
3:D:272:LYS:HG3	3:D:273:ASP:OD2	2.13	0.49
5:F:251:TYR:CE2	22:F:404:CLA:HBA1	2.48	0.49
11:L:346:VAL:O	11:L:350:GLU:HG2	2.13	0.49
22:X:404:CLA:H13	22:X:408:CLA:H112	1.93	0.49
20:A:57:HIS:HE1	22:A:806:CLA:C4B	2.26	0.49
8:I:173:ASP:OD1	8:I:174:ARG:N	2.45	0.48
28:K:601:LMG:O5	28:K:601:LMG:O4	2.28	0.48
22:N:606:CLA:H121	22:O:315:CLA:HAB	1.94	0.48
17:V:313:MET:HE1	22:V:602:CLA:HHC	1.94	0.48
17:V:321:ALA:O	17:V:325:VAL:HG22	2.13	0.48
1:B:292:ARG:HA	1:B:297:ILE:O	2.13	0.48
22:K:605:CLA:H151	22:K:605:CLA:H112	1.53	0.48
22:R:601:CLA:O1A	26:R:614:LHG:O2	2.31	0.48
14:S:164:MET:HE2	14:S:164:MET:HA	1.94	0.48
1:B:29:His:HE1	22:B:803:CLA:C4B	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:F:407:SQD:H151	22:X:403:CLA:H93	1.95	0.48
18:W:284:GLU:O	18:W:296:LYS:NZ	2.39	0.48
1:B:292:ARG:HG2	1:B:298:GLY:CA	2.44	0.48
22:K:604:CLA:HED3	22:K:607:CLA:H43	1.95	0.48
11:R:347:ASN:HB3	22:R:610:CLA:HED2	1.95	0.48
22:B:809:CLA:H43	11:L:352:VAL:HG21	1.94	0.48
8:N:116:MET:O	8:N:120:VAL:HG23	2.14	0.48
22:V:608:CLA:HBA2	22:V:608:CLA:H3A	1.61	0.48
22:B:823:CLA:H171	22:B:823:CLA:H13	1.63	0.48
26:B:851:LHG:H252	27:B:854:LMU:H22	1.96	0.48
17:V:267:TRP:O	17:V:271:GLY:N	2.41	0.48
17:V:267:TRP:CD1	17:V:273:ILE:HA	2.49	0.48
1:B:172:GLU:OE2	1:B:301:ILE:HG13	2.13	0.48
11:R:254:PRO:O	11:R:258:GLY:N	2.47	0.48
26:W:420:LHG:HC81	26:W:420:LHG:H111	1.56	0.48
22:A:832:CLA:H62	26:A:846:LHG:H131	1.96	0.48
22:B:834:CLA:H142	22:B:839:CLA:H193	1.95	0.48
22:K:605:CLA:H3A	22:K:605:CLA:HBA2	1.45	0.48
13:O:195:GLU:OE2	27:O:301:LMU:H2'	2.13	0.48
6:P:496:LEU:HB2	6:P:498:LEU:HD23	1.95	0.48
19:X:197:GLU:OE1	19:X:197:GLU:N	2.41	0.48
1:B:308:HIS:HE1	22:B:821:CLA:ND	2.09	0.48
1:B:435:GLY:HA3	22:B:832:CLA:HAB	1.96	0.48
22:L:411:CLA:H2	22:L:411:CLA:H61	1.67	0.48
17:V:222:PRO:HB3	17:V:226:GLU:HB2	1.95	0.48
22:A:803:CLA:H142	21:A:851:BCR:H23C	1.96	0.48
1:B:98:GLN:HB3	1:B:99:PRO:HD3	1.96	0.47
1:B:576:PHE:O	1:B:580:VAL:HG23	2.14	0.47
22:L:402:CLA:H41	22:L:402:CLA:H61	1.48	0.47
20:A:370:HIS:CD2	22:A:828:CLA:NC	2.81	0.47
1:B:277:HIS:HA	1:B:280:ILE:HG12	1.95	0.47
1:B:286:VAL:HG12	1:B:286:VAL:O	2.14	0.47
22:B:831:CLA:H62	22:B:831:CLA:H2	1.67	0.47
6:P:424:PHE:O	6:P:425:HIS:C	2.54	0.47
22:P:605:CLA:HBA1	22:P:605:CLA:H3A	1.50	0.47
26:B:851:LHG:H262	27:B:854:LMU:H22	1.96	0.47
22:K:604:CLA:H143	22:K:604:CLA:H162	1.76	0.47
1:B:193:HIS:HB2	22:B:813:CLA:C1C	2.44	0.47
7:H:169:LEU:HD11	22:H:312:CLA:HMC2	1.96	0.47
8:I:78:HIS:NE2	8:I:90:ASP:OD2	2.41	0.47
6:P:397:TYR:O	6:P:400:ASP:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:V:216:LEU:HB3	17:V:218:ILE:HG12	1.97	0.47
17:V:325:VAL:HG21	22:V:612:CLA:HMD2	1.97	0.47
27:O:301:LMU:H102	22:O:312:CLA:H2	1.97	0.47
31:V:605:CHL:CMC	31:V:606:CHL:NC	2.77	0.47
20:A:393:HIS:HE1	22:A:829:CLA:C1D	2.15	0.47
1:B:74:PHE:O	1:B:78:ILE:HG12	2.14	0.47
22:F:404:CLA:H91	22:W:410:CLA:H143	1.96	0.47
11:L:305:PHE:CE2	26:O:321:LHG:H361	2.49	0.47
22:S:608:CLA:NB	26:S:613:LHG:O4	2.48	0.47
20:A:178:TRP:HB2	22:A:813:CLA:CMC	2.45	0.47
1:B:283:LEU:C	1:B:285:ILE:H	2.21	0.47
22:B:806:CLA:H2	22:B:806:CLA:H61	1.63	0.47
22:B:816:CLA:H3A	22:B:816:CLA:HBA2	1.46	0.47
22:B:822:CLA:O1A	21:B:844:BCR:H14C	2.15	0.47
22:B:834:CLA:H41	22:B:834:CLA:H61	1.67	0.47
25:B:847:DGD:HB82	25:B:847:DGD:HBE1	1.49	0.47
28:B:856:LMG:H342	28:B:856:LMG:H202	1.97	0.47
5:F:289:TRP:HE1	30:F:407:SQD:H462	1.79	0.47
25:F:401:DGD:HAF2	25:F:401:DGD:HAV2	1.63	0.47
22:F:403:CLA:H162	22:F:403:CLA:H122	1.62	0.47
8:I:155:PRO:HG2	22:K:607:CLA:H72	1.96	0.47
8:N:67:GLY:HA3	22:N:601:CLA:HED2	1.96	0.47
22:R:601:CLA:H171	22:R:601:CLA:H13	1.65	0.47
16:U:337:HIS:CD2	22:U:415:CLA:NC	2.82	0.47
17:V:154:TRP:CE3	22:V:601:CLA:HAA1	2.50	0.47
17:V:273:ILE:HD11	22:V:607:CLA:HAB	1.97	0.47
22:N:610:CLA:HBA1	22:N:610:CLA:CBD	2.43	0.47
11:R:228:LYS:H	11:R:228:LYS:HD3	1.80	0.47
18:W:319:LYS:O	18:W:323:VAL:HG23	2.14	0.47
6:G:455:ASP:OD1	6:G:455:ASP:N	2.46	0.47
22:G:608:CLA:H121	22:G:609:CLA:C4B	2.45	0.47
22:H:311:CLA:HBB1	22:H:311:CLA:H8	1.97	0.47
6:P:422:GLU:O	6:P:423:VAL:C	2.56	0.47
20:A:274:ASP:N	20:A:274:ASP:OD1	2.47	0.47
20:A:506:THR:HG22	20:A:507:THR:HG22	1.96	0.47
12:M:13:LEU:HD21	21:M:101:BCR:H281	1.96	0.47
22:O:308:CLA:H2	10:Q:550:GLY:O	2.15	0.47
15:T:261:LYS:HE2	15:T:261:LYS:HA	1.96	0.46
27:T:618:LMU:H12	22:A:812:CLA:H42	1.96	0.46
22:L:408:CLA:O1D	22:L:408:CLA:H2A	2.15	0.46
8:N:132:ALA:HB3	8:N:135:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:118:GLY:HA2	13:O:208:MET:HE2	1.97	0.46
17:V:189:PHE:HD2	22:V:602:CLA:H12	1.79	0.46
31:W:407:CHL:C1C	31:W:408:CHL:HBC2	2.45	0.46
1:B:351:HIS:HE1	22:B:825:CLA:C1B	2.13	0.46
30:O:302:SQD:H241	30:O:302:SQD:H462	1.47	0.46
11:R:350:GLU:HB3	11:R:358:HIS:CG	2.50	0.46
22:R:604:CLA:HBB	22:R:605:CLA:H152	1.97	0.46
17:V:267:TRP:HH2	32:V:616:NEX:H192	1.79	0.46
18:W:311:ASP:N	18:W:311:ASP:OD2	2.48	0.46
6:P:507:GLU:CD	22:P:607:CLA:NB	2.72	0.46
10:Q:463:SER:O	10:Q:467:VAL:HG23	2.16	0.46
22:Q:605:CLA:H61	22:Q:605:CLA:H2	1.59	0.46
11:R:365:MET:HE3	11:R:365:MET:HA	1.97	0.46
7:H:131:ASP:OD2	7:H:135:ARG:NH1	2.47	0.46
8:I:183:LYS:HE2	8:I:183:LYS:H	1.81	0.46
11:L:285:VAL:HG22	17:V:259:LEU:HA	1.98	0.46
8:N:222:LEU:O	8:N:226:LEU:HB2	2.16	0.46
11:R:264:GLU:O	11:R:268:ASN:ND2	2.48	0.46
31:V:605:CHL:CMC	31:V:606:CHL:C3C	2.93	0.46
22:A:822:CLA:H141	22:A:822:CLA:H162	1.74	0.46
22:B:807:CLA:H8	22:B:807:CLA:HBB1	1.98	0.46
25:B:847:DGD:HBW1	25:B:847:DGD:HBG3	1.97	0.46
6:G:418:MET:HE1	22:G:602:CLA:H43	1.96	0.46
22:I:611:CLA:HAC2	28:I:615:LMG:H401	1.97	0.46
22:S:605:CLA:H8	22:S:605:CLA:C2C	2.46	0.46
17:V:260:LEU:HD12	17:V:260:LEU:H	1.81	0.46
18:W:191:LEU:HD13	22:W:404:CLA:H42	1.97	0.46
1:B:132:ASN:HB2	12:M:1:MET:HE2	1.97	0.46
1:B:636:ASN:HB2	1:B:637:PRO:HD2	1.97	0.46
11:L:366:HIS:O	11:L:367:GLN:C	2.58	0.46
11:R:262:TRP:CH2	11:R:337:ARG:HD3	2.50	0.46
28:J:101:LMG:H232	28:J:101:LMG:H262	1.77	0.46
22:K:604:CLA:HMD3	22:K:607:CLA:ND	2.30	0.46
22:K:613:CLA:H2	22:K:613:CLA:H61	1.68	0.46
6:P:382:VAL:HG22	6:P:383:TRP:H	1.80	0.46
11:R:300:LYS:HD3	11:R:300:LYS:HA	1.80	0.46
20:A:730:HIS:HE1	22:A:842:CLA:C4D	2.29	0.46
1:B:395:ILE:HD12	1:B:555:TYR:HD1	1.81	0.46
1:B:422:LEU:O	1:B:426:THR:HG23	2.16	0.46
22:B:818:CLA:HBB1	22:B:818:CLA:HMB3	1.97	0.46
22:B:829:CLA:HBA2	22:B:829:CLA:H3A	1.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:K:508:GLU:OE2	22:K:608:CLA:NB	2.48	0.46
11:R:287:GLU:HG2	11:R:290:ARG:HH12	1.80	0.46
16:U:278:LYS:HD2	16:U:278:LYS:N	2.31	0.46
17:V:290:PHE:O	17:V:292:PRO:HD3	2.15	0.46
20:A:91:MET:HE2	20:A:91:MET:HA	1.98	0.46
1:B:292:ARG:HB3	1:B:292:ARG:CZ	2.45	0.46
27:B:854:LMU:H51	27:B:854:LMU:H22	1.82	0.46
13:O:135:PHE:CE2	30:O:302:SQD:H111	2.51	0.46
6:P:472:TYR:CE2	22:Q:608:CLA:HBA1	2.50	0.46
18:W:217:LEU:HB3	22:W:406:CLA:HMC2	1.97	0.46
21:B:845:BCR:H15C	21:B:845:BCR:H351	1.72	0.45
22:G:603:CLA:H101	22:K:603:CLA:C15	2.46	0.45
22:K:604:CLA:H91	22:K:604:CLA:H111	1.62	0.45
13:O:74:LEU:HD13	13:O:79:ALA:HB3	1.98	0.45
11:R:195:ARG:O	11:R:196:PRO:C	2.58	0.45
11:R:248:ILE:CA	11:R:330:MET:HE1	2.47	0.45
14:S:98:LEU:HD13	22:S:602:CLA:H42	1.98	0.45
17:V:247:ALA:HB1	17:V:253:ILE:HD11	1.97	0.45
20:A:37:ARG:H	20:A:37:ARG:CD	2.29	0.45
1:B:144:PHE:HD1	28:B:856:LMG:H242	1.81	0.45
27:K:620:LMU:H102	26:L:416:LHG:H141	1.98	0.45
22:L:408:CLA:HMB2	22:L:408:CLA:H2	1.98	0.45
14:S:184:GLU:C	14:S:185:LYS:HD2	2.41	0.45
18:W:371:ALA:HB2	31:W:422:CHL:HAA2	1.97	0.45
20:A:520:LYS:HE2	20:A:520:LYS:HB3	1.77	0.45
22:A:814:CLA:H161	22:A:814:CLA:H141	1.67	0.45
21:B:844:BCR:HC42	28:U:402:LMG:H182	1.99	0.45
11:L:288:VAL:O	11:L:292:LEU:HG	2.16	0.45
13:O:105:LYS:HD2	13:O:105:LYS:HA	1.65	0.45
10:Q:541:LEU:HD23	10:Q:541:LEU:HA	1.73	0.45
11:R:271:ILE:HD11	11:R:276:VAL:HG22	1.98	0.45
20:A:343:GLU:OE1	20:A:343:GLU:N	2.48	0.45
22:A:817:CLA:H141	22:A:817:CLA:H161	1.64	0.45
1:B:474:LEU:HD11	5:F:154:LEU:HD23	1.97	0.45
27:B:858:LMU:H52	27:B:858:LMU:H81	1.76	0.45
3:D:240:LYS:HE3	3:D:240:LYS:HB3	1.66	0.45
22:A:844:CLA:HBA1	22:A:844:CLA:H3A	1.45	0.45
22:B:835:CLA:HBB1	22:B:835:CLA:HMB3	1.97	0.45
10:K:474:ARG:HG3	22:K:606:CLA:CHD	2.47	0.45
22:S:605:CLA:H62	22:S:605:CLA:H41	1.75	0.45
20:A:338:HIS:CD2	22:A:825:CLA:ND	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:365:ARG:HB3	1:B:602:TRP:CZ3	2.51	0.45
22:B:806:CLA:H141	22:B:806:CLA:H162	1.72	0.45
21:B:846:BCR:H15C	21:B:846:BCR:H351	1.85	0.45
26:B:851:LHG:H262	27:B:854:LMU:C2	2.46	0.45
8:N:70:PHE:CG	8:N:71:PRO:HD2	2.52	0.45
6:P:406:LEU:HB2	6:P:408:LEU:HG	1.98	0.45
19:X:101:LEU:HD11	19:X:260:THR:HG23	1.99	0.45
22:A:842:CLA:O1A	26:A:845:LHG:H131	2.17	0.45
22:B:810:CLA:H61	22:B:810:CLA:H92	1.70	0.45
25:B:847:DGD:O2D	25:B:847:DGD:HG31	2.16	0.45
4:E:94:ARG:HB3	4:E:94:ARG:NH1	2.32	0.45
6:G:539:HIS:CD2	22:G:611:CLA:NC	2.85	0.45
22:K:609:CLA:CHB	22:A:844:CLA:H42	2.46	0.45
13:O:183:TYR:HB3	22:O:310:CLA:HED2	1.98	0.45
6:P:510:ASN:O	6:P:513:LEU:HG	2.16	0.45
11:R:317:GLU:O	11:R:321:LYS:HG3	2.17	0.45
22:R:611:CLA:H3A	22:R:611:CLA:HBA2	1.48	0.45
14:S:210:ASN:ND2	22:S:609:CLA:NB	2.65	0.45
20:A:522:ALA:O	20:A:523:MET:HE2	2.17	0.45
22:B:805:CLA:H203	22:B:805:CLA:H161	1.84	0.45
8:I:193:GLU:HG3	22:I:607:CLA:C1B	2.47	0.45
26:N:616:LHG:H122	26:N:616:LHG:H152	1.83	0.45
13:O:171:PHE:CE2	10:Q:383:TRP:CH2	3.05	0.45
22:Q:611:CLA:H2	22:Q:611:CLA:H62	1.62	0.45
22:R:604:CLA:C3A	22:R:605:CLA:H152	2.45	0.45
22:W:404:CLA:H142	22:W:404:CLA:H112	1.78	0.45
31:W:407:CHL:C2C	31:W:408:CHL:HBC3	2.46	0.45
22:L:409:CLA:H143	27:L:419:LMU:H121	1.98	0.45
8:N:189:THR:HG21	22:N:607:CLA:H12	1.98	0.45
22:R:601:CLA:H52	26:R:614:LHG:H101	1.99	0.45
22:T:604:CLA:H142	22:T:604:CLA:H111	1.76	0.45
17:V:310:ARG:O	17:V:314:VAL:HG23	2.17	0.45
22:A:817:CLA:H62	22:A:817:CLA:H102	1.79	0.45
1:B:583:MET:O	1:B:587:ILE:HG12	2.17	0.45
17:V:297:ALA:HB1	17:V:302:LYS:HE3	1.98	0.45
22:B:804:CLA:H61	22:B:804:CLA:H2	1.67	0.44
18:W:303:PHE:CE2	22:W:409:CLA:NC	2.85	0.44
10:K:487:TYR:CE1	11:L:201:GLY:HA3	2.53	0.44
11:L:368:TRP:CH2	11:L:370:VAL:HA	2.53	0.44
8:N:115:SER:CB	8:N:201:MET:HG2	2.48	0.44
10:Q:426:GLY:HA2	10:Q:516:MET:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:R:604:CLA:HMB1	22:R:605:CLA:H162	1.98	0.44
14:S:75:PRO:HD3	22:S:601:CLA:HMA1	2.00	0.44
1:B:656:VAL:HG23	1:B:716:GLY:HA2	1.98	0.44
2:C:29:VAL:HG12	3:D:245:ARG:HB3	2.00	0.44
11:L:245:MET:SD	22:L:408:CLA:HAB	2.57	0.44
10:Q:546:ALA:HB2	28:Q:602:LMG:HC5	1.99	0.44
20:A:169:PHE:O	20:A:172:VAL:HG22	2.17	0.44
22:A:824:CLA:H91	22:A:824:CLA:H111	1.60	0.44
1:B:89:HIS:CD2	22:B:807:CLA:NA	2.85	0.44
1:B:276:HIS:O	1:B:280:ILE:HG23	2.16	0.44
22:K:607:CLA:HHC	22:K:607:CLA:CBB	2.47	0.44
8:N:150:MET:HE3	8:N:150:MET:HB3	1.80	0.44
17:V:168:PHE:CE2	17:V:190:ARG:HD2	2.52	0.44
17:V:180:ALA:HB2	22:V:602:CLA:HAA2	1.99	0.44
19:X:207:LEU:O	19:X:209:HIS:N	2.51	0.44
21:B:801:BCR:H331	21:B:801:BCR:C8	2.48	0.44
22:B:839:CLA:HBA1	26:B:848:LHG:HC41	2.00	0.44
21:B:843:BCR:H24C	21:B:843:BCR:H371	1.61	0.44
22:H:305:CLA:HBA2	22:H:305:CLA:H3A	1.79	0.44
22:I:601:CLA:H61	22:I:601:CLA:H2	1.79	0.44
10:K:549:ILE:HG21	22:K:611:CLA:H42	1.98	0.44
10:Q:384:PHE:HD2	10:Q:387:ILE:HD13	1.82	0.44
11:R:253:VAL:HA	11:R:256:ILE:HD12	1.98	0.44
28:U:402:LMG:H392	28:U:402:LMG:H362	1.81	0.44
22:U:415:CLA:H3A	22:U:415:CLA:HBA2	1.44	0.44
20:A:14:ARG:HG2	20:A:15:VAL:H	1.82	0.44
22:A:833:CLA:H162	22:A:833:CLA:H121	1.77	0.44
1:B:420:SER:HB2	22:A:841:CLA:HED2	1.99	0.44
21:B:844:BCR:H15C	21:B:844:BCR:H351	1.82	0.44
6:P:509:LYS:HA	6:P:512:ARG:HD2	1.99	0.44
22:T:605:CLA:H62	22:T:605:CLA:H41	1.67	0.44
22:U:404:CLA:HMB1	22:U:404:CLA:HBB1	2.00	0.44
22:B:820:CLA:H62	22:B:820:CLA:H41	1.53	0.44
7:H:131:ASP:O	7:H:135:ARG:HG3	2.18	0.44
22:K:613:CLA:H42	11:L:370:VAL:HG23	2.00	0.44
22:L:417:CLA:H202	22:L:417:CLA:H162	1.83	0.44
11:R:196:PRO:HB2	22:R:601:CLA:HED2	2.00	0.44
11:R:232:ARG:HG3	11:R:233:MET:N	2.32	0.44
14:S:113:VAL:HG12	14:S:117:ARG:HD2	1.99	0.44
31:W:407:CHL:CBC	31:W:408:CHL:HBC3	2.48	0.44
20:A:51:ASN:N	20:A:51:ASN:HD22	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:820:CLA:HAB	22:A:820:CLA:H8	2.00	0.44
22:A:832:CLA:H41	22:A:832:CLA:H61	1.78	0.44
1:B:652:PHE:O	1:B:656:VAL:HG22	2.17	0.44
22:B:828:CLA:H162	22:B:828:CLA:H141	1.78	0.44
25:B:847:DGD:HA51	25:B:847:DGD:HA21	1.40	0.44
10:Q:542:ARG:HH11	10:Q:542:ARG:HG2	1.83	0.44
22:T:605:CLA:H162	22:T:605:CLA:H192	1.74	0.44
22:T:611:CLA:HBA1	22:T:611:CLA:H3A	1.44	0.44
2:C:77:MET:HE3	2:C:77:MET:HB3	1.90	0.44
22:H:313:CLA:H62	22:H:313:CLA:H41	1.87	0.44
11:L:228:LYS:HB3	11:L:228:LYS:HE3	1.80	0.44
6:P:536:LEU:HD12	6:P:536:LEU:HA	1.81	0.44
22:P:606:CLA:HBA1	22:P:606:CLA:H3A	1.68	0.44
16:U:290:PHE:CE2	22:U:409:CLA:NC	2.86	0.44
28:U:423:LMG:H142	28:U:423:LMG:H111	1.79	0.44
17:V:267:TRP:CH2	32:V:616:NEX:H192	2.53	0.44
22:V:609:CLA:H62	22:V:609:CLA:H41	1.85	0.44
22:A:824:CLA:H141	22:A:828:CLA:H151	2.00	0.44
8:I:154:ALA:HB3	8:I:155:PRO:HD3	2.00	0.43
8:I:222:LEU:CD1	22:I:611:CLA:HBC2	2.42	0.43
11:L:263:TYR:CD2	11:L:337:ARG:HD2	2.52	0.43
22:W:402:CLA:H41	22:W:402:CLA:H62	1.72	0.43
20:A:626:LYS:HE2	20:A:626:LYS:N	2.33	0.43
22:A:814:CLA:H41	22:A:814:CLA:H62	1.70	0.43
22:F:404:CLA:H62	22:F:404:CLA:H41	1.74	0.43
6:P:409:ALA:HB1	6:P:415:TYR:HD1	1.82	0.43
14:S:103:ALA:O	14:S:106:GLU:HG3	2.18	0.43
17:V:238:TYR:CD1	17:V:239:LEU:HG	2.53	0.43
22:X:419:CLA:H3A	22:X:419:CLA:HBA1	1.62	0.43
20:A:204:GLY:O	20:A:208:LEU:HB2	2.18	0.43
20:A:320:HIS:HE1	22:A:823:CLA:C4A	2.32	0.43
1:B:136:TYR:CZ	12:M:7:GLN:HB3	2.53	0.43
1:B:178:HIS:O	1:B:182:LEU:HB3	2.18	0.43
22:B:833:CLA:H192	22:B:833:CLA:H162	1.69	0.43
13:O:163:GLU:HG2	22:O:309:CLA:NB	2.32	0.43
6:G:383:TRP:O	22:G:601:CLA:NA	2.51	0.43
25:O:304:DGD:HA52	25:O:304:DGD:HA81	1.31	0.43
10:Q:509:ILE:HG22	10:Q:513:ARG:HE	1.84	0.43
22:R:601:CLA:H41	22:R:601:CLA:H62	1.44	0.43
16:U:238:TYR:HB3	16:U:244:LEU:HD13	1.99	0.43
17:V:224:TRP:HE3	17:V:225:TYR:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:409:CLA:H162	22:X:409:CLA:H122	1.73	0.43
22:A:805:CLA:H92	22:A:805:CLA:H62	1.73	0.43
22:A:852:CLA:H161	22:A:852:CLA:H141	1.79	0.43
1:B:91:ILE:HD12	1:B:112:PRO:HB2	2.00	0.43
1:B:208:ARG:O	1:B:212:PHE:HB3	2.18	0.43
22:B:824:CLA:HAA2	22:B:825:CLA:OBD	2.18	0.43
25:B:847:DGD:HE61	25:B:847:DGD:HE1	1.68	0.43
3:D:95:GLN:OE1	3:D:95:GLN:N	2.49	0.43
22:L:410:CLA:HMA1	22:L:410:CLA:H2	2.01	0.43
22:U:411:CLA:H92	22:U:411:CLA:H61	1.71	0.43
17:V:238:TYR:HB3	17:V:244:LEU:HD12	2.01	0.43
22:W:411:CLA:H41	22:W:411:CLA:H62	1.77	0.43
22:B:827:CLA:H92	22:B:827:CLA:H61	1.81	0.43
22:H:307:CLA:H61	22:H:307:CLA:H2	1.67	0.43
8:N:141:ASP:OD1	8:N:144:LYS:HB3	2.18	0.43
22:N:603:CLA:H141	22:N:603:CLA:H161	1.78	0.43
22:N:603:CLA:H142	22:N:603:CLA:H112	1.86	0.43
22:O:313:CLA:H161	22:O:313:CLA:H141	1.66	0.43
22:O:313:CLA:H92	22:O:313:CLA:H61	1.77	0.43
18:W:174:GLU:N	18:W:174:GLU:OE1	2.51	0.43
20:A:671:MET:HE3	20:A:671:MET:HB3	1.76	0.43
21:A:849:BCR:H24C	21:A:849:BCR:H371	1.77	0.43
1:B:439:HIS:HE1	22:B:832:CLA:C1A	2.16	0.43
12:M:20:PHE:CG	22:O:311:CLA:H42	2.53	0.43
13:O:189:LEU:HD12	13:O:191:LEU:HD11	2.00	0.43
22:U:405:CLA:H51	27:U:421:LMU:H82	2.00	0.43
22:V:603:CLA:H112	22:V:603:CLA:H72	1.89	0.43
22:W:406:CLA:H101	22:W:409:CLA:H151	2.01	0.43
22:A:801:CLA:H62	22:A:801:CLA:H41	1.77	0.43
21:B:801:BCR:H12C	23:A:843:PQN:H291	2.01	0.43
22:B:804:CLA:H162	22:B:804:CLA:H141	1.75	0.43
10:K:508:GLU:HG3	22:K:608:CLA:C1B	2.49	0.43
26:K:616:LHG:H272	26:K:616:LHG:H242	1.80	0.43
22:O:313:CLA:H111	22:O:313:CLA:H71	1.56	0.43
11:R:195:ARG:NH2	11:R:210:GLY:H	2.13	0.43
22:R:601:CLA:H111	22:R:601:CLA:H72	1.59	0.43
22:R:615:CLA:HBA1	22:R:615:CLA:H3A	1.80	0.43
17:V:224:TRP:CE3	17:V:225:TYR:HB3	2.54	0.43
22:V:604:CLA:H93	22:V:604:CLA:H62	1.71	0.43
22:B:817:CLA:H141	22:B:817:CLA:H161	1.83	0.43
27:H:301:LMU:H31	28:H:322:LMG:H112	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:T:614:LHG:H271	26:T:614:LHG:H242	1.86	0.43
22:V:601:CLA:HED2	22:V:601:CLA:HBD	1.69	0.43
22:A:844:CLA:H61	22:A:844:CLA:H92	1.80	0.43
1:B:308:HIS:HE1	22:B:821:CLA:C4D	2.31	0.43
22:B:830:CLA:H201	22:W:410:CLA:H91	2.01	0.43
6:G:464:MET:CE	7:H:93:GLN:HG3	2.48	0.43
22:G:608:CLA:H62	22:G:608:CLA:H41	1.49	0.43
22:K:605:CLA:H112	22:K:605:CLA:H91	1.76	0.43
13:O:82:PRO:HG2	13:O:85:LEU:HD12	2.01	0.43
22:R:607:CLA:H91	22:R:607:CLA:H111	1.77	0.43
17:V:238:TYR:HD1	17:V:239:LEU:HG	1.83	0.43
20:A:681:PHE:HZ	22:A:842:CLA:HBC2	1.83	0.43
22:A:840:CLA:H112	22:A:840:CLA:H143	1.74	0.43
25:F:401:DGD:HA32	9:J:42:ILE:HG22	2.01	0.42
22:O:308:CLA:HBA2	22:O:308:CLA:H3A	1.85	0.42
6:P:524:GLN:OE1	22:P:610:CLA:C1A	2.67	0.42
22:V:612:CLA:H111	22:V:612:CLA:H91	1.81	0.42
20:A:418:ASP:O	20:A:422:ASN:ND2	2.48	0.42
33:A:802:CL0:CMB	22:A:852:CLA:OBD	2.66	0.42
21:A:848:BCR:H11C	21:A:848:BCR:H341	1.80	0.42
1:B:67:HIS:HE1	22:B:806:CLA:C4D	2.32	0.42
4:E:92:PRO:HB2	4:E:114:VAL:HG21	2.02	0.42
28:F:408:LMG:H132	27:U:424:LMU:H21	2.01	0.42
22:I:601:CLA:CHA	22:I:601:CLA:HBA1	2.50	0.42
22:I:603:CLA:H2	22:I:603:CLA:H61	1.76	0.42
13:O:194:GLU:OE1	13:O:194:GLU:N	2.52	0.42
6:P:426:ALA:HB1	6:P:511:GLY:HA3	2.00	0.42
22:Q:610:CLA:H112	22:Q:610:CLA:H172	2.01	0.42
11:R:348:LEU:HD13	22:R:611:CLA:HBC2	2.01	0.42
22:T:605:CLA:H92	22:T:605:CLA:H61	1.74	0.42
17:V:209:VAL:HG21	22:V:604:CLA:HAC2	2.01	0.42
22:A:812:CLA:H61	22:A:812:CLA:H2	1.81	0.42
6:G:415:TYR:O	6:G:419:ARG:HG3	2.19	0.42
22:L:402:CLA:HBA2	26:L:416:LHG:HC81	2.00	0.42
22:S:608:CLA:C1B	26:S:613:LHG:HC32	2.50	0.42
22:W:409:CLA:H61	22:W:409:CLA:H2	1.72	0.42
22:A:808:CLA:H151	22:A:808:CLA:H112	1.44	0.42
22:A:827:CLA:HAA2	22:A:828:CLA:OBD	2.20	0.42
1:B:504:LYS:HA	1:B:504:LYS:HD3	1.86	0.42
21:B:801:BCR:H15C	21:B:801:BCR:H351	1.67	0.42
28:F:408:LMG:H152	28:F:408:LMG:H182	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:F:409:LMU:H12	27:F:409:LMU:H41	1.84	0.42
22:K:604:CLA:HMD1	22:K:607:CLA:C1D	2.49	0.42
10:Q:408:LEU:HD13	22:Q:604:CLA:H42	2.00	0.42
22:S:605:CLA:H3A	22:S:605:CLA:HBA2	1.43	0.42
22:S:607:CLA:HAB	24:S:611:DD6:C24	2.49	0.42
22:T:608:CLA:CED	22:T:608:CLA:H2A	2.49	0.42
18:W:295:ASP:OD1	18:W:296:LYS:N	2.52	0.42
33:A:802:CL0:H40	22:A:804:CLA:O1D	2.20	0.42
22:A:838:CLA:H41	22:A:838:CLA:H61	1.66	0.42
6:G:433:ILE:HD13	6:G:518:LEU:HG	2.01	0.42
11:L:231:GLU:H	11:L:231:GLU:CD	2.26	0.42
22:L:408:CLA:HBB1	22:L:408:CLA:HMB1	2.01	0.42
10:Q:516:MET:HG2	24:Q:614:DD6:C5	2.50	0.42
22:Q:603:CLA:HBB1	22:Q:603:CLA:HMB3	2.00	0.42
11:R:281:ALA:O	11:R:285:VAL:HG23	2.19	0.42
22:S:606:CLA:HBA1	22:S:606:CLA:H3A	1.83	0.42
22:T:605:CLA:H142	22:T:605:CLA:H111	1.83	0.42
16:U:211:GLU:HB3	16:U:331:LEU:HD12	2.02	0.42
18:W:345:GLN:OE1	18:W:345:GLN:N	2.52	0.42
21:A:851:BCR:H361	21:A:851:BCR:H20C	1.77	0.42
21:B:842:BCR:H20C	21:B:842:BCR:H361	1.91	0.42
2:C:15:THR:O	2:C:19:ARG:HG3	2.18	0.42
4:E:120:SER:HB3	4:E:123:ILE:HG12	2.00	0.42
8:I:224:ALA:C	8:I:226:LEU:N	2.76	0.42
22:Q:604:CLA:H61	22:Q:604:CLA:H41	1.76	0.42
17:V:208:LEU:HD23	17:V:208:LEU:HA	1.86	0.42
22:B:816:CLA:H161	22:B:816:CLA:H121	1.68	0.42
22:H:308:CLA:HBB1	22:H:310:CLA:H3A	2.02	0.42
8:I:186:THR:O	8:I:190:LYS:HG3	2.20	0.42
22:I:603:CLA:H92	22:I:603:CLA:H62	1.91	0.42
26:O:321:LHG:HC62	26:O:321:LHG:H241	1.75	0.42
20:A:183:LYS:HE3	20:A:183:LYS:HB3	1.84	0.42
20:A:544:HIS:CD2	22:A:840:CLA:NB	2.86	0.42
20:A:613:LYS:HG2	22:A:838:CLA:HBC1	2.02	0.42
1:B:712:HIS:CE1	22:B:838:CLA:C4D	3.03	0.42
10:K:547:ALA:HB1	22:K:611:CLA:HED1	2.02	0.42
22:N:610:CLA:HBA1	22:N:610:CLA:CHA	2.49	0.42
15:T:304:LEU:HD11	22:T:607:CLA:HAC1	2.02	0.42
17:V:163:TRP:CD1	17:V:164:LEU:HG	2.55	0.42
17:V:290:PHE:CE1	22:V:607:CLA:NC	2.88	0.42
1:B:400:GLU:O	1:B:404:LYS:HE3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:822:CLA:H51	22:B:823:CLA:H143	2.01	0.42
22:K:604:CLA:CMD	22:K:607:CLA:C1D	2.97	0.42
21:M:101:BCR:H24C	21:M:101:BCR:H371	1.79	0.42
8:N:178:GLY:HA2	22:N:607:CLA:CED	2.50	0.42
22:V:604:CLA:HHC	32:V:616:NEX:H362	1.96	0.42
18:W:235:GLU:HG2	18:W:240:LYS:HB3	2.02	0.42
22:A:814:CLA:H102	22:A:814:CLA:H61	1.83	0.42
1:B:137:ASN:HB3	28:B:856:LMG:H132	2.01	0.42
8:N:108:GLU:HG3	22:N:602:CLA:C1B	2.49	0.42
14:S:168:TYR:HB2	22:T:606:CLA:HAB	2.01	0.42
22:A:842:CLA:H141	22:A:842:CLA:H161	1.60	0.42
5:F:291:TRP:CG	5:F:292:PRO:HD3	2.55	0.41
22:H:311:CLA:H141	22:H:311:CLA:H161	1.87	0.41
13:O:171:PHE:HE2	10:Q:383:TRP:CH2	2.37	0.41
16:U:307:LYS:HB3	22:U:412:CLA:HMD1	2.01	0.41
16:U:347:LEU:HD23	16:U:347:LEU:HA	1.89	0.41
17:V:181:ARG:NH2	30:V:618:SQD:O8	2.53	0.41
31:W:407:CHL:C2C	31:W:408:CHL:CBC	2.97	0.41
22:A:805:CLA:H142	22:A:805:CLA:H112	1.79	0.41
22:A:815:CLA:H141	22:A:815:CLA:H162	1.90	0.41
22:B:824:CLA:H142	22:B:824:CLA:H111	1.78	0.41
21:B:844:BCR:H341	21:B:844:BCR:H11C	1.81	0.41
13:O:191:LEU:HD22	27:O:301:LMU:H72	2.01	0.41
6:P:479:PHE:HB3	26:P:601:LHG:O4	2.21	0.41
31:W:407:CHL:HAB	31:W:408:CHL:OMC	2.20	0.41
26:W:420:LHG:H131	26:W:420:LHG:H102	1.77	0.41
20:A:51:ASN:HA	20:A:54:ALA:HB3	2.02	0.41
21:A:848:BCR:H371	21:A:848:BCR:H24C	1.79	0.41
22:G:608:CLA:H121	22:G:609:CLA:CHC	2.50	0.41
11:L:226:ASP:OD2	11:L:226:ASP:C	2.64	0.41
22:L:412:CLA:H3A	22:L:412:CLA:HBA2	1.71	0.41
8:N:189:THR:CG2	22:N:607:CLA:HHB	2.51	0.41
22:Q:608:CLA:HBA1	22:Q:608:CLA:H3A	1.94	0.41
22:T:608:CLA:H2A	22:T:608:CLA:HED3	2.01	0.41
17:V:207:CYS:HB3	17:V:224:TRP:HD1	1.85	0.41
17:V:267:TRP:CE2	17:V:273:ILE:HG23	2.56	0.41
22:A:804:CLA:H142	22:A:804:CLA:H111	1.77	0.41
22:A:852:CLA:H91	22:A:852:CLA:H111	1.79	0.41
8:I:111:HIS:CE1	22:I:603:CLA:C4A	2.95	0.41
22:I:606:CLA:HED3	10:K:481:TRP:CZ3	2.56	0.41
22:L:406:CLA:H111	22:L:406:CLA:H72	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:L:408:CLA:CGA	22:L:408:CLA:C3A	2.99	0.41
22:P:603:CLA:HMD1	22:P:606:CLA:C1D	2.50	0.41
20:A:233:ASN:OD1	20:A:233:ASN:C	2.63	0.41
20:A:494:ALA:N	20:A:495:PRO:HD2	2.36	0.41
22:A:830:CLA:HBA1	22:A:830:CLA:HBD	2.02	0.41
1:B:516:ASP:N	1:B:516:ASP:OD1	2.54	0.41
1:B:640:MET:HE2	1:B:640:MET:HB2	1.83	0.41
6:G:440:GLU:OE2	6:G:446:ALA:HA	2.20	0.41
22:K:617:CLA:H92	22:K:617:CLA:H62	1.74	0.41
14:S:74:PHE:CD1	14:S:75:PRO:HD2	2.55	0.41
15:T:353:GLY:H	15:T:358:GLU:CD	2.27	0.41
31:U:407:CHL:CBA	32:U:418:NEX:H403	2.50	0.41
17:V:316:MET:HE2	17:V:316:MET:HB2	1.87	0.41
31:W:422:CHL:H141	19:X:221:ILE:HG13	2.01	0.41
22:A:807:CLA:H3A	22:A:807:CLA:HBA1	1.47	0.41
21:A:851:BCR:H24C	21:A:851:BCR:H371	1.81	0.41
22:B:809:CLA:HMA1	27:B:854:LMU:H71	2.01	0.41
26:K:616:LHG:HC82	26:K:616:LHG:H281	2.02	0.41
11:L:319:GLU:HG3	22:L:408:CLA:C1B	2.51	0.41
8:N:157:GLU:OE2	22:N:606:CLA:C1C	2.67	0.41
6:P:392:HIS:CD2	6:P:409:ALA:O	2.74	0.41
11:R:218:PHE:HB3	22:R:602:CLA:CAD	2.50	0.41
28:W:401:LMG:H342	28:W:401:LMG:H311	1.69	0.41
22:W:411:CLA:H142	22:W:411:CLA:H111	1.79	0.41
20:A:354:SER:OG	20:A:409:ALA:HB2	2.21	0.41
22:A:827:CLA:HBA2	22:A:827:CLA:H3A	1.69	0.41
21:A:849:BCR:H11C	21:A:849:BCR:H341	1.84	0.41
2:C:29:VAL:HG21	3:D:247:LYS:HG2	2.01	0.41
3:D:98:ASP:OD2	3:D:99:LEU:N	2.54	0.41
11:L:257:LEU:HA	27:L:419:LMU:H6D	2.01	0.41
22:L:404:CLA:H2	22:L:404:CLA:H61	1.75	0.41
11:R:233:MET:HE2	22:R:602:CLA:H12	2.03	0.41
14:S:150:ASN:HB2	14:S:152:GLU:OE2	2.20	0.41
16:U:188:LYS:NZ	22:U:405:CLA:HBA1	2.34	0.41
20:A:233:ASN:HA	20:A:234:PRO:HD3	1.91	0.41
22:A:816:CLA:H151	22:A:816:CLA:H112	1.66	0.41
22:B:823:CLA:H62	22:B:823:CLA:H41	1.85	0.41
22:B:834:CLA:HBB1	22:B:834:CLA:HMB3	2.02	0.41
8:N:180:ASP:OD2	8:N:185:THR:OG1	2.38	0.41
11:R:286:VAL:O	11:R:290:ARG:HG3	2.20	0.41
16:U:261:MET:HE3	16:U:261:MET:HB3	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:U:408:CHL:HMA2	28:U:423:LMG:O2	2.21	0.41
17:V:314:VAL:HG12	22:V:612:CLA:HBB2	2.03	0.41
22:W:412:CLA:H121	22:W:413:CLA:C4B	2.50	0.41
20:A:200:HIS:CE1	22:A:814:CLA:NA	2.88	0.41
1:B:305:LEU:HD23	1:B:305:LEU:HA	1.93	0.41
1:B:310:ALA:HA	1:B:311:PRO:HD3	1.94	0.41
1:B:494:LEU:HD12	1:B:494:LEU:HA	1.86	0.41
22:B:813:CLA:H2	22:B:813:CLA:H61	1.59	0.41
22:B:824:CLA:HMA1	21:B:845:BCR:H14C	2.03	0.41
22:B:825:CLA:H122	21:B:844:BCR:H373	2.03	0.41
21:B:843:BCR:H24C	21:B:843:BCR:H402	1.73	0.41
26:B:851:LHG:H161	26:B:851:LHG:H192	1.84	0.41
8:I:79:LEU:HD11	8:I:90:ASP:HB2	2.03	0.41
10:K:525:GLN:HG2	22:K:611:CLA:C1D	2.50	0.41
22:K:608:CLA:H41	22:K:608:CLA:H62	1.87	0.41
8:N:117:LEU:HD22	22:N:604:CLA:HAB	2.03	0.41
13:O:117:HIS:HE1	22:O:307:CLA:C4D	2.34	0.41
11:R:195:ARG:HB2	11:R:195:ARG:HH11	1.86	0.41
22:R:607:CLA:H52	22:R:607:CLA:HBB1	2.03	0.41
14:S:136:ALA:O	14:S:139:THR:OG1	2.38	0.41
27:T:618:LMU:H31	27:T:618:LMU:H62	1.73	0.41
22:U:401:CLA:HBA1	22:U:401:CLA:H3A	1.89	0.41
19:X:268:LYS:HD3	22:X:411:CLA:HAA2	2.02	0.41
20:A:88:LEU:HD23	20:A:88:LEU:HA	1.90	0.41
20:A:339:LYS:HB2	20:A:339:LYS:HE2	1.94	0.41
1:B:177:HIS:HE1	22:B:811:CLA:C4A	2.34	0.41
22:B:830:CLA:HBC3	22:B:830:CLA:HHD	2.03	0.41
6:G:447:TRP:CE2	6:G:448:PHE:HD2	2.39	0.41
11:L:338:HIS:HB3	11:L:368:TRP:HZ3	1.85	0.41
22:L:409:CLA:NC	26:L:416:LHG:HC41	2.36	0.41
21:M:101:BCR:H11C	21:M:101:BCR:H341	1.85	0.41
10:Q:537:LEU:HD13	22:Q:613:CLA:HBC2	2.02	0.41
22:S:605:CLA:O1D	22:S:605:CLA:H2A	2.21	0.41
17:V:182:ASP:HB3	17:V:185:ASP:CG	2.46	0.41
17:V:190:ARG:O	17:V:194:VAL:HG23	2.21	0.41
17:V:246:HIS:HB2	22:V:617:CLA:C1B	2.51	0.41
17:V:300:GLU:O	17:V:304:LYS:HG3	2.21	0.41
20:A:609:HIS:NE2	22:A:838:CLA:HBC3	2.36	0.41
21:B:801:BCR:H272	22:B:831:CLA:HBB2	2.03	0.40
21:B:842:BCR:H341	21:B:842:BCR:H11C	1.82	0.40
10:K:545:LEU:H	10:K:545:LEU:HD22	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:243:LEU:HD11	22:R:606:CLA:HBC3	2.03	0.40
22:S:604:CLA:H112	22:S:604:CLA:H91	1.82	0.40
28:T:616:LMG:HC1	28:T:616:LMG:HC8	1.79	0.40
22:U:404:CLA:H92	22:U:404:CLA:H61	1.66	0.40
18:W:198:PHE:O	18:W:202:ARG:HG3	2.21	0.40
1:B:388:ALA:O	1:B:392:ILE:HG13	2.19	0.40
22:B:832:CLA:H12	9:J:42:ILE:HD12	2.04	0.40
4:E:102:ARG:HA	4:E:103:PRO:HD3	1.98	0.40
22:H:308:CLA:H92	22:H:308:CLA:H61	1.79	0.40
27:L:420:LMU:H51	27:L:420:LMU:H22	1.82	0.40
26:O:321:LHG:H372	26:O:321:LHG:H342	1.84	0.40
11:R:332:GLY:HA2	11:R:335:VAL:HG12	2.02	0.40
22:R:607:CLA:H92	22:R:607:CLA:H61	1.70	0.40
21:B:801:BCR:H24C	21:B:801:BCR:H371	1.90	0.40
3:D:117:THR:O	3:D:146:GLY:HA3	2.22	0.40
7:H:165:LEU:HD13	22:H:312:CLA:HBC2	2.03	0.40
22:I:611:CLA:HBA2	22:I:611:CLA:H3A	1.67	0.40
25:O:304:DGD:HB71	25:O:304:DGD:HB41	1.13	0.40
22:B:859:CLA:H142	22:B:859:CLA:H111	1.79	0.40
22:K:607:CLA:H93	22:K:607:CLA:H111	1.79	0.40
8:N:152:ILE:HA	8:N:152:ILE:HD13	1.85	0.40
13:O:240:ASN:OD1	13:O:243:THR:HG23	2.22	0.40
22:Q:608:CLA:HHC	22:Q:608:CLA:HBB1	2.03	0.40
17:V:153:THR:HA	17:V:172:ARG:O	2.22	0.40
22:W:406:CLA:H92	22:W:406:CLA:H62	1.92	0.40
20:A:37:ARG:NH2	20:A:62:HIS:O	2.54	0.40
1:B:293:THR:CG2	1:B:294:ASN:H	2.22	0.40
1:B:484:ASN:ND2	31:U:408:CHL:OBD	2.54	0.40
22:B:834:CLA:H51	22:B:834:CLA:H11	1.87	0.40
5:F:252:ILE:HD13	22:F:404:CLA:C1D	2.32	0.40
21:J:103:BCR:H24C	21:J:103:BCR:H371	1.92	0.40
22:K:608:CLA:H3A	22:K:608:CLA:CGA	2.51	0.40
22:U:420:CLA:HBA2	22:U:420:CLA:H3A	1.30	0.40
18:W:221:ALA:HB3	18:W:222:PRO:HD3	2.04	0.40
20:A:180:HIS:HE1	22:A:812:CLA:C1A	2.34	0.40
20:A:502:LEU:HD23	20:A:502:LEU:HA	1.87	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	B	730/734 (100%)	698 (96%)	29 (4%)	3 (0%)	30	34
2	C	78/81 (96%)	74 (95%)	4 (5%)	0	100	100
3	D	188/193 (97%)	182 (97%)	6 (3%)	0	100	100
4	E	61/158 (39%)	61 (100%)	0	0	100	100
5	F	164/325 (50%)	161 (98%)	3 (2%)	0	100	100
6	G	173/184 (94%)	169 (98%)	4 (2%)	0	100	100
6	P	162/184 (88%)	146 (90%)	16 (10%)	0	100	100
7	H	171/185 (92%)	165 (96%)	6 (4%)	0	100	100
8	I	163/184 (89%)	160 (98%)	3 (2%)	0	100	100
8	N	168/184 (91%)	155 (92%)	13 (8%)	0	100	100
9	J	35/39 (90%)	35 (100%)	0	0	100	100
10	K	180/184 (98%)	175 (97%)	5 (3%)	0	100	100
10	Q	180/184 (98%)	168 (93%)	12 (7%)	0	100	100
11	L	176/187 (94%)	167 (95%)	8 (4%)	1 (1%)	22	24
11	R	172/187 (92%)	163 (95%)	8 (5%)	1 (1%)	22	24
12	M	29/31 (94%)	29 (100%)	0	0	100	100
13	O	173/177 (98%)	160 (92%)	12 (7%)	1 (1%)	22	24
14	S	170/180 (94%)	166 (98%)	4 (2%)	0	100	100
15	T	165/173 (95%)	158 (96%)	7 (4%)	0	100	100
16	U	197/209 (94%)	186 (94%)	11 (6%)	0	100	100
17	V	194/196 (99%)	183 (94%)	11 (6%)	0	100	100
18	W	218/228 (96%)	209 (96%)	9 (4%)	0	100	100
19	X	221/223 (99%)	215 (97%)	6 (3%)	0	100	100
20	A	738/756 (98%)	715 (97%)	22 (3%)	1 (0%)	48	59
All	All	4906/5366 (91%)	4700 (96%)	199 (4%)	7 (0%)	50	59

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	R	196	PRO
1	B	288	GLY
1	B	284	PHE
11	L	367	GLN
1	B	488	ALA
13	O	184	PRO
20	A	122	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	608/609 (100%)	600 (99%)	8 (1%)	65	77
2	C	69/70 (99%)	67 (97%)	2 (3%)	37	48
3	D	157/160 (98%)	154 (98%)	3 (2%)	52	65
4	E	54/124 (44%)	52 (96%)	2 (4%)	29	38
5	F	132/251 (53%)	129 (98%)	3 (2%)	45	56
6	G	133/140 (95%)	132 (99%)	1 (1%)	79	88
6	P	124/140 (89%)	118 (95%)	6 (5%)	21	26
7	H	141/149 (95%)	139 (99%)	2 (1%)	62	75
8	I	120/136 (88%)	114 (95%)	6 (5%)	20	25
8	N	124/136 (91%)	120 (97%)	4 (3%)	34	43
9	J	34/36 (94%)	34 (100%)	0	100	100
10	K	144/146 (99%)	139 (96%)	5 (4%)	31	40
10	Q	144/146 (99%)	141 (98%)	3 (2%)	48	61
11	L	139/145 (96%)	134 (96%)	5 (4%)	30	39
11	R	136/145 (94%)	132 (97%)	4 (3%)	37	48
12	M	26/26 (100%)	26 (100%)	0	100	100
13	O	143/144 (99%)	138 (96%)	5 (4%)	31	40

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	S	133/137 (97%)	130 (98%)	3 (2%)	45	56
15	T	126/131 (96%)	125 (99%)	1 (1%)	79	88
16	U	152/158 (96%)	150 (99%)	2 (1%)	65	77
17	V	151/151 (100%)	148 (98%)	3 (2%)	50	63
18	W	167/172 (97%)	165 (99%)	2 (1%)	67	80
19	X	173/173 (100%)	171 (99%)	2 (1%)	67	80
20	A	621/636 (98%)	612 (99%)	9 (1%)	62	75
All	All	3951/4261 (93%)	3870 (98%)	81 (2%)	49	61

All (81) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	102	GLU
1	B	197	VAL
1	B	267	SER
1	B	366	THR
1	B	492	ILE
1	B	501	ILE
1	B	508	LEU
1	B	715	VAL
2	C	42	SER
2	C	65	VAL
3	D	193	SER
3	D	246	THR
3	D	260	GLU
4	E	139	VAL
4	E	140	THR
5	F	178	LYS
5	F	187	SER
5	F	206	LYS
6	G	438	VAL
7	H	12	ILE
7	H	137	ILE
8	I	120	VAL
8	I	123	ILE
8	I	124	VAL
8	I	145	LEU
8	I	152	ILE
8	I	185	THR
10	K	434	VAL

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Mol	Chain	Res	Type
10	K	471	GLU
10	K	523	GLU
10	K	528	VAL
10	K	545	LEU
11	L	195	ARG
11	L	301	ASN
11	L	342	VAL
11	L	368	TRP
11	L	370	VAL
8	N	78	HIS
8	N	152	ILE
8	N	184	LEU
8	N	187	ASP
13	O	80	THR
13	O	102	LYS
13	O	108	GLN
13	O	177	ASP
13	O	211	MET
6	P	383	TRP
6	P	392	HIS
6	P	393	LEU
6	P	433	ILE
6	P	508	ILE
6	P	518	LEU
10	Q	380	ARG
10	Q	387	ILE
10	Q	388	THR
11	R	195	ARG
11	R	229	VAL
11	R	278	VAL
11	R	330	MET
14	S	78	THR
14	S	168	TYR
14	S	203	THR
15	T	281	PHE
16	U	284	THR
16	U	349	THR
17	V	165	THR
17	V	177	CYS
17	V	316	MET
18	W	342	VAL
18	W	369	THR

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Mol	Chain	Res	Type
19	X	306	THR
19	X	320	ASP
20	A	75	SER
20	A	111	VAL
20	A	307	LEU
20	A	328	SER
20	A	395	TYR
20	A	414	VAL
20	A	506	THR
20	A	622	VAL
20	A	628	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (35) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	672	GLN
1	B	704	GLN
6	G	378	HIS
6	G	524	GLN
6	G	542	ASN
7	H	93	GLN
7	H	139	ASN
7	H	153	GLN
10	K	425	ASN
10	K	511	ASN
10	K	525	GLN
11	L	211	GLN
11	L	336	GLN
8	N	196	ASN
13	O	203	ASN
13	O	217	GLN
13	O	235	HIS
10	Q	425	ASN
10	Q	511	ASN
10	Q	525	GLN
10	Q	526	ASN
11	R	268	ASN
11	R	336	GLN
14	S	210	ASN
14	S	224	GLN
14	S	225	HIS
15	T	386	ASN

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Mol	Chain	Res	Type
17	V	232	ASN
17	V	322	GLN
19	X	123	HIS
19	X	200	ASN
19	X	204	ASN
20	A	34	HIS
20	A	51	ASN
20	A	116	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

436 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$
24	DD6	G	612	-	39,45,45	2.00	3 (7%)	52,67,67	1.81	11 (21%)
31	CHL	V	606	-	46,54,74	2.45	10 (21%)	49,90,114	1.39	8 (16%)
26	LHG	P	601	-	39,39,48	1.20	6 (15%)	42,45,54	0.98	2 (4%)
22	CLA	N	601	8	45,53,73	1.78	6 (13%)	52,89,113	1.55	6 (11%)
28	LMG	A	855	-	41,41,55	0.84	0	49,49,63	1.26	5 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	CLA	A	838	20	52,60,73	1.66	6 (11%)	60,97,113	1.55	9 (15%)
22	CLA	H	307	7	60,68,73	1.57	5 (8%)	70,107,113	1.40	6 (8%)
24	DD6	Q	614	-	39,45,45	1.97	3 (7%)	52,67,67	1.79	11 (21%)
22	CLA	R	608	26	54,62,73	1.66	6 (11%)	62,99,113	1.43	7 (11%)
21	BCR	A	849	-	41,41,41	0.73	0	56,56,56	1.89	13 (23%)
22	CLA	G	611	6	45,53,73	1.79	5 (11%)	52,89,113	1.58	7 (13%)
21	BCR	M	101	-	41,41,41	0.75	0	56,56,56	2.02	16 (28%)
22	CLA	Q	610	26	65,73,73	1.51	6 (9%)	76,113,113	1.34	7 (9%)
24	DD6	I	612	-	39,45,45	1.99	3 (7%)	52,67,67	1.72	10 (19%)
22	CLA	L	417	11	65,73,73	1.50	5 (7%)	76,113,113	1.40	7 (9%)
22	CLA	N	605	-	45,53,73	1.76	6 (13%)	52,89,113	1.64	6 (11%)
22	CLA	W	412	26	60,68,73	1.56	6 (10%)	70,107,113	1.41	8 (11%)
22	CLA	O	312	13	60,68,73	1.52	6 (10%)	70,107,113	1.46	8 (11%)
27	LMU	A	854	-	36,36,36	0.42	0	47,47,47	0.69	1 (2%)
28	LMG	J	101	-	55,55,55	0.70	0	63,63,63	1.35	7 (11%)
22	CLA	T	610	-	45,53,73	1.80	5 (11%)	52,89,113	1.54	6 (11%)
22	CLA	S	603	14	45,53,73	1.77	6 (13%)	52,89,113	1.60	6 (11%)
22	CLA	U	401	-	55,63,73	1.62	5 (9%)	64,101,113	1.45	8 (12%)
22	CLA	B	834	1	65,73,73	1.46	6 (9%)	76,113,113	1.42	6 (7%)
22	CLA	B	809	1	65,73,73	1.48	6 (9%)	76,113,113	1.40	7 (9%)
22	CLA	U	414	16	61,69,73	1.54	5 (8%)	71,108,113	1.42	7 (9%)
22	CLA	A	828	20	65,73,73	1.47	5 (7%)	76,113,113	1.40	7 (9%)
22	CLA	K	608	10	65,73,73	1.44	8 (12%)	76,113,113	1.38	10 (13%)
22	CLA	K	605	-	65,73,73	1.48	5 (7%)	76,113,113	1.35	6 (7%)
22	CLA	O	319	13	45,53,73	1.77	5 (11%)	52,89,113	1.59	7 (13%)
22	CLA	Q	603	10	45,53,73	1.77	6 (13%)	52,89,113	1.65	7 (13%)
28	LMG	I	615	-	49,50,55	0.75	0	54,57,63	1.38	4 (7%)
22	CLA	X	403	19	65,73,73	1.48	6 (9%)	76,113,113	1.36	7 (9%)
22	CLA	X	413	19	45,53,73	1.79	5 (11%)	52,89,113	1.58	6 (11%)
26	LHG	O	323	-	42,42,48	1.18	6 (14%)	45,48,54	0.95	2 (4%)
22	CLA	F	403	-	65,73,73	1.50	6 (9%)	76,113,113	1.37	8 (10%)
24	DD6	N	612	-	39,45,45	1.99	3 (7%)	52,67,67	1.87	13 (25%)
24	DD6	F	406	-	39,45,45	2.01	3 (7%)	52,67,67	1.89	16 (30%)
22	CLA	F	404	-	55,63,73	1.61	6 (10%)	64,101,113	1.51	7 (10%)
22	CLA	G	607	-	60,68,73	1.53	6 (10%)	70,107,113	1.38	7 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	CLA	R	605	-	65,73,73	1.50	6 (9%)	76,113,113	1.38	8 (10%)
24	DD6	I	613	-	39,45,45	2.05	3 (7%)	52,67,67	1.90	16 (30%)
22	CLA	K	606	-	50,58,73	1.68	6 (12%)	58,95,113	1.56	8 (13%)
22	CLA	B	829	-	45,53,73	1.70	10 (22%)	52,89,113	1.65	7 (13%)
27	LMU	T	617	-	24,24,36	0.42	0	29,29,47	0.66	0
22	CLA	K	603	10	60,68,73	1.54	5 (8%)	70,107,113	1.40	7 (10%)
22	CLA	G	609	-	45,53,73	1.78	6 (13%)	52,89,113	1.57	7 (13%)
22	CLA	L	404	-	56,64,73	1.59	6 (10%)	65,102,113	1.48	8 (12%)
22	CLA	N	603	8	65,73,73	1.49	6 (9%)	76,113,113	1.38	7 (9%)
23	PQN	A	843	-	34,34,34	1.59	2 (5%)	42,45,45	1.08	3 (7%)
22	CLA	X	417	19	50,58,73	1.70	5 (10%)	58,95,113	1.58	9 (15%)
22	CLA	A	824	20	65,73,73	1.51	6 (9%)	76,113,113	1.37	9 (11%)
22	CLA	L	407	-	57,65,73	1.58	6 (10%)	66,103,113	1.44	7 (10%)
31	CHL	W	407	-	46,54,74	2.40	9 (19%)	49,90,114	1.39	7 (14%)
22	CLA	H	304	7	45,53,73	1.77	6 (13%)	52,89,113	1.61	7 (13%)
24	DD6	X	414	-	39,45,45	1.97	3 (7%)	52,67,67	1.81	12 (23%)
26	LHG	G	614	22	31,31,48	1.32	6 (19%)	34,37,54	1.06	2 (5%)
22	CLA	T	607	15	60,68,73	1.53	5 (8%)	70,107,113	1.42	7 (10%)
24	DD6	K	614	-	39,45,45	1.98	3 (7%)	52,67,67	1.86	15 (28%)
22	CLA	A	833	20	65,73,73	1.47	6 (9%)	76,113,113	1.39	8 (10%)
24	DD6	B	841	-	39,45,45	1.99	3 (7%)	52,67,67	1.99	13 (25%)
22	CLA	U	406	-	56,64,73	1.61	5 (8%)	65,102,113	1.43	7 (10%)
22	CLA	B	808	1	55,63,73	1.61	5 (9%)	64,101,113	1.46	6 (9%)
22	CLA	A	813	20	65,73,73	1.49	6 (9%)	76,113,113	1.29	7 (9%)
31	CHL	U	408	-	46,54,74	2.45	10 (21%)	49,90,114	1.38	7 (14%)
22	CLA	L	408	11	60,68,73	1.50	8 (13%)	70,107,113	1.52	12 (17%)
22	CLA	S	614	-	45,53,73	1.76	6 (13%)	52,89,113	1.61	6 (11%)
27	LMU	U	424	-	24,24,36	0.42	0	29,29,47	0.58	0
22	CLA	B	828	1	65,73,73	1.48	6 (9%)	76,113,113	1.40	8 (10%)
28	LMG	L	401	-	51,51,55	0.71	0	59,59,63	1.32	5 (8%)
22	CLA	A	841	20	65,73,73	1.48	6 (9%)	76,113,113	1.35	6 (7%)
24	DD6	A	859	-	39,45,45	2.07	3 (7%)	52,67,67	1.88	13 (25%)
22	CLA	Q	613	10	45,53,73	1.78	5 (11%)	52,89,113	1.59	9 (17%)
22	CLA	T	604	15	65,73,73	1.47	5 (7%)	76,113,113	1.40	8 (10%)
30	SQD	V	618	-	26,27,54	0.52	1 (3%)	33,36,65	0.45	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	CLA	B	820	1	53,61,73	1.69	6 (11%)	61,98,113	1.63	7 (11%)
22	CLA	R	615	11	65,73,73	1.50	5 (7%)	76,113,113	1.36	8 (10%)
22	CLA	I	611	8	45,53,73	1.82	5 (11%)	52,89,113	1.61	8 (15%)
22	CLA	V	611	-	45,53,73	1.82	6 (13%)	52,89,113	1.56	6 (11%)
22	CLA	B	838	1	45,53,73	1.83	7 (15%)	52,89,113	1.56	6 (11%)
22	CLA	P	610	6	41,49,73	1.88	6 (14%)	47,84,113	1.69	8 (17%)
22	CLA	B	837	-	45,53,73	1.79	6 (13%)	52,89,113	1.58	6 (11%)
27	LMU	B	855	-	24,24,36	0.45	0	29,29,47	0.67	0
22	CLA	U	410	16	55,63,73	1.61	6 (10%)	64,101,113	1.44	7 (10%)
22	CLA	B	830	1	65,73,73	1.42	8 (12%)	76,113,113	1.42	8 (10%)
22	CLA	B	814	1	45,53,73	1.77	6 (13%)	52,89,113	1.59	6 (11%)
26	LHG	N	614	22	27,27,48	1.38	6 (22%)	30,33,54	1.10	2 (6%)
22	CLA	S	606	14	50,58,73	1.71	6 (12%)	58,95,113	1.51	8 (13%)
22	CLA	U	405	16	57,65,73	1.60	6 (10%)	66,103,113	1.45	6 (9%)
32	NEX	V	616	-	38,46,46	0.37	1 (2%)	50,70,70	0.70	2 (4%)
27	LMU	L	418	-	24,24,36	0.48	0	29,29,47	0.74	0
22	CLA	P	608	-	45,53,73	1.83	6 (13%)	52,89,113	1.58	8 (15%)
26	LHG	A	846	22	48,48,48	1.11	6 (12%)	51,54,54	0.92	2 (3%)
22	CLA	N	606	8	65,73,73	1.53	6 (9%)	76,113,113	1.35	8 (10%)
28	LMG	H	317	-	43,43,55	0.79	1 (2%)	51,51,63	1.31	7 (13%)
27	LMU	T	618	-	24,24,36	0.44	0	29,29,47	0.66	0
22	CLA	B	832	1	62,70,73	1.51	6 (9%)	72,109,113	1.43	8 (11%)
22	CLA	H	302	7	45,53,73	1.80	5 (11%)	52,89,113	1.56	7 (13%)
22	CLA	L	412	11	45,53,73	1.79	6 (13%)	52,89,113	1.52	6 (11%)
22	CLA	B	821	1	60,68,73	1.56	5 (8%)	70,107,113	1.42	7 (10%)
22	CLA	X	408	19	65,73,73	1.47	6 (9%)	76,113,113	1.40	7 (9%)
28	LMG	Q	602	-	37,37,55	0.84	1 (2%)	45,45,63	1.28	5 (11%)
22	CLA	B	836	1	51,59,73	1.69	5 (9%)	59,96,113	1.50	7 (11%)
22	CLA	R	609	-	41,49,73	1.84	5 (12%)	47,84,113	1.70	7 (14%)
22	CLA	K	612	10	45,53,73	1.77	6 (13%)	52,89,113	1.56	7 (13%)
28	LMG	U	423	-	49,49,55	0.73	0	57,57,63	1.31	3 (5%)
22	CLA	W	419	18	45,53,73	1.78	5 (11%)	52,89,113	1.59	6 (11%)
22	CLA	B	807	1	65,73,73	1.49	7 (10%)	76,113,113	1.34	7 (9%)
22	CLA	S	604	-	60,68,73	1.55	6 (10%)	70,107,113	1.41	7 (10%)
22	CLA	B	813	1	65,73,73	1.49	5 (7%)	76,113,113	1.31	7 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	CLA	B	815	1	52,60,73	1.67	6 (11%)	60,97,113	1.45	6 (10%)
22	CLA	Q	608	10	50,58,73	1.69	5 (10%)	58,95,113	1.50	8 (13%)
22	CLA	A	812	20	57,65,73	1.58	6 (10%)	66,103,113	1.43	8 (12%)
22	CLA	B	817	1	65,73,73	1.49	5 (7%)	76,113,113	1.39	7 (9%)
22	CLA	U	415	16	45,53,73	1.80	5 (11%)	52,89,113	1.53	6 (11%)
27	LMU	U	422	-	36,36,36	0.44	0	47,47,47	0.79	2 (4%)
26	LHG	K	619	-	32,32,48	1.31	6 (18%)	35,38,54	1.10	2 (5%)
24	DD6	G	613	-	39,45,45	2.03	3 (7%)	52,67,67	1.90	16 (30%)
22	CLA	A	829	20	65,73,73	1.49	6 (9%)	76,113,113	1.39	8 (10%)
28	LMG	B	852	-	43,43,55	0.84	0	51,51,63	1.27	4 (7%)
32	NEX	U	418	-	38,46,46	0.35	1 (2%)	50,70,70	0.67	2 (4%)
22	CLA	O	311	26	60,68,73	1.55	6 (10%)	70,107,113	1.38	8 (11%)
22	CLA	V	613	-	45,53,73	1.83	5 (11%)	52,89,113	1.63	6 (11%)
21	BCR	A	851	-	41,41,41	0.70	0	56,56,56	2.11	16 (28%)
22	CLA	S	608	26	45,53,73	1.81	5 (11%)	52,89,113	1.55	8 (15%)
22	CLA	K	604	-	64,72,73	1.50	6 (9%)	74,111,113	1.40	6 (8%)
31	CHL	W	408	-	66,74,74	2.00	10 (15%)	73,114,114	1.17	9 (12%)
22	CLA	K	611	10	65,73,73	1.48	5 (7%)	76,113,113	1.40	7 (9%)
25	DGD	B	847	-	67,67,67	0.83	2 (2%)	81,81,81	1.01	5 (6%)
26	LHG	X	420	22	41,41,48	1.19	6 (14%)	44,47,54	0.99	2 (4%)
27	LMU	B	853	-	19,19,36	0.46	0	23,23,47	0.44	0
22	CLA	O	313	13	65,73,73	1.49	6 (9%)	76,113,113	1.36	6 (7%)
22	CLA	B	833	1	65,73,73	1.50	6 (9%)	76,113,113	1.35	7 (9%)
22	CLA	L	410	11	60,68,73	1.54	5 (8%)	70,107,113	1.42	7 (10%)
21	BCR	J	103	-	41,41,41	0.68	0	56,56,56	1.78	12 (21%)
22	CLA	I	603	8	56,64,73	1.63	6 (10%)	65,102,113	1.42	7 (10%)
22	CLA	B	859	-	65,73,73	1.50	6 (9%)	76,113,113	1.40	8 (10%)
22	CLA	W	402	18	55,63,73	1.60	6 (10%)	64,101,113	1.44	7 (10%)
22	CLA	B	822	1	65,73,73	1.49	6 (9%)	76,113,113	1.38	7 (9%)
22	CLA	O	307	13	45,53,73	1.79	6 (13%)	52,89,113	1.58	6 (11%)
28	LMG	K	601	-	43,43,55	0.77	0	51,51,63	1.27	4 (7%)
27	LMU	K	620	-	34,34,36	0.50	0	44,44,47	1.04	5 (11%)
22	CLA	V	609	17	57,65,73	1.59	5 (8%)	66,103,113	1.45	8 (12%)
22	CLA	Q	612	10	65,73,73	1.46	6 (9%)	76,113,113	1.37	6 (7%)
27	LMU	B	857	-	36,36,36	0.41	0	47,47,47	0.73	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
28	LMG	G	616	-	46,46,55	0.81	0	54,54,63	1.29	7 (12%)
22	CLA	T	609	15	45,53,73	1.76	6 (13%)	52,89,113	1.61	6 (11%)
22	CLA	A	805	20	61,69,73	1.53	6 (9%)	71,108,113	1.42	7 (9%)
22	CLA	A	852	-	65,73,73	1.49	5 (7%)	76,113,113	1.37	8 (10%)
22	CLA	Q	617	10	52,60,73	1.66	6 (11%)	60,97,113	1.51	7 (11%)
22	CLA	W	410	18	60,68,73	1.54	6 (10%)	70,107,113	1.42	7 (10%)
22	CLA	O	306	13	60,68,73	1.53	6 (10%)	70,107,113	1.40	7 (10%)
22	CLA	S	605	-	60,68,73	1.52	8 (13%)	70,107,113	1.53	8 (11%)
22	CLA	I	602	8	60,68,73	1.54	6 (10%)	70,107,113	1.44	8 (11%)
27	LMU	B	854	-	24,24,36	0.46	0	29,29,47	0.81	1 (3%)
22	CLA	B	819	1	53,61,73	1.73	5 (9%)	61,98,113	1.48	5 (8%)
24	DD6	K	615	-	39,45,45	1.95	2 (5%)	52,67,67	1.69	11 (21%)
22	CLA	Q	618	-	45,53,73	1.81	5 (11%)	52,89,113	1.55	6 (11%)
22	CLA	A	823	20	45,53,73	1.78	6 (13%)	52,89,113	1.61	7 (13%)
26	LHG	H	316	22	26,26,48	1.40	6 (23%)	29,32,54	1.16	2 (6%)
22	CLA	X	409	19	65,73,73	1.48	6 (9%)	76,113,113	1.38	8 (10%)
22	CLA	B	816	1	65,73,73	1.48	6 (9%)	76,113,113	1.38	7 (9%)
22	CLA	A	817	20	65,73,73	1.47	6 (9%)	76,113,113	1.39	7 (9%)
26	LHG	B	851	-	41,41,48	1.17	6 (14%)	44,47,54	0.99	3 (6%)
22	CLA	A	815	20	65,73,73	1.47	5 (7%)	76,113,113	1.41	7 (9%)
22	CLA	H	306	-	55,63,73	1.61	6 (10%)	64,101,113	1.43	6 (9%)
22	CLA	K	617	10	65,73,73	1.47	6 (9%)	76,113,113	1.39	6 (7%)
27	LMU	H	320	-	24,24,36	0.44	0	29,29,47	0.59	0
22	CLA	A	804	-	65,73,73	1.50	5 (7%)	76,113,113	1.34	6 (7%)
22	CLA	G	603	6	56,64,73	1.61	6 (10%)	65,102,113	1.44	8 (12%)
27	LMU	O	322	-	36,36,36	0.49	0	47,47,47	1.09	5 (10%)
24	DD6	H	314	-	39,45,45	1.99	3 (7%)	52,67,67	1.88	12 (23%)
22	CLA	W	403	18	52,60,73	1.68	6 (11%)	60,97,113	1.50	8 (13%)
22	CLA	Q	605	-	56,64,73	1.60	6 (10%)	65,102,113	1.48	8 (12%)
22	CLA	H	303	7	60,68,73	1.54	6 (10%)	70,107,113	1.40	8 (11%)
24	DD6	P	613	-	39,45,45	2.03	3 (7%)	52,67,67	1.94	18 (34%)
24	DD6	L	414	-	39,45,45	2.01	3 (7%)	52,67,67	1.80	15 (28%)
22	CLA	Q	611	10	55,63,73	1.61	6 (10%)	64,101,113	1.47	7 (10%)
22	CLA	B	802	1	65,73,73	1.44	10 (15%)	76,113,113	1.37	8 (10%)
22	CLA	A	821	20	65,73,73	1.47	6 (9%)	76,113,113	1.41	8 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	LMU	B	850	-	24,24,36	0.44	0	29,29,47	0.55	0
27	LMU	W	421	-	24,24,36	0.44	0	29,29,47	0.56	0
24	DD6	T	612	-	39,45,45	2.03	3 (7%)	52,67,67	1.84	13 (25%)
22	CLA	A	839	20	65,73,73	1.48	5 (7%)	76,113,113	1.53	8 (10%)
22	CLA	L	403	11	60,68,73	1.53	6 (10%)	70,107,113	1.44	7 (10%)
26	LHG	A	845	-	48,48,48	1.10	6 (12%)	51,54,54	0.94	3 (5%)
22	CLA	N	611	-	39,48,73	1.90	5 (12%)	45,82,113	1.66	8 (17%)
22	CLA	B	811	1	45,53,73	1.77	5 (11%)	52,89,113	1.65	6 (11%)
21	BCR	B	842	-	41,41,41	0.72	0	56,56,56	1.99	15 (26%)
24	DD6	T	613	-	39,45,45	1.98	3 (7%)	52,67,67	1.73	11 (21%)
24	DD6	X	416	-	39,45,45	2.01	2 (5%)	52,67,67	2.23	15 (28%)
22	CLA	B	835	1	65,73,73	1.48	6 (9%)	76,113,113	1.43	8 (10%)
22	CLA	V	612	-	65,73,73	1.51	5 (7%)	76,113,113	1.33	7 (9%)
29	SF4	C	102	2	0,12,12	-	-	-	-	-
22	CLA	N	608	26	45,53,73	1.79	6 (13%)	52,89,113	1.54	6 (11%)
24	DD6	O	316	-	39,45,45	1.96	3 (7%)	52,67,67	1.72	12 (23%)
22	CLA	A	809	20	53,61,73	1.65	6 (11%)	61,98,113	1.48	8 (13%)
22	CLA	W	404	18	65,73,73	1.47	5 (7%)	76,113,113	1.38	6 (7%)
24	DD6	W	418	-	39,45,45	2.02	3 (7%)	52,67,67	1.89	14 (26%)
22	CLA	X	410	26	60,68,73	1.55	5 (8%)	70,107,113	1.40	7 (10%)
30	SQD	O	302	-	41,42,54	0.43	1 (2%)	50,53,65	0.52	1 (2%)
22	CLA	H	318	7	45,53,73	1.78	5 (11%)	52,89,113	1.61	6 (11%)
22	CLA	P	607	6	45,53,73	1.79	7 (15%)	52,89,113	1.60	6 (11%)
22	CLA	Q	607	-	45,53,73	1.79	5 (11%)	52,89,113	1.53	6 (11%)
27	LMU	B	858	-	14,14,36	0.31	0	13,13,47	0.58	0
22	CLA	P	609	-	45,53,73	1.81	6 (13%)	52,89,113	1.58	7 (13%)
22	CLA	Q	609	10	60,68,73	1.53	6 (10%)	70,107,113	1.39	7 (10%)
24	DD6	V	614	-	39,45,45	2.00	3 (7%)	52,67,67	2.03	13 (25%)
27	LMU	O	301	-	24,24,36	0.44	0	29,29,47	0.57	0
22	CLA	X	405	-	56,64,73	1.59	5 (8%)	65,102,113	1.46	8 (12%)
22	CLA	R	611	11	45,53,73	1.80	5 (11%)	52,89,113	1.56	7 (13%)
22	CLA	B	827	1	65,73,73	1.47	6 (9%)	76,113,113	1.32	8 (10%)
21	BCR	B	844	-	41,41,41	0.71	0	56,56,56	1.80	13 (23%)
28	LMG	B	856	-	53,53,55	0.72	0	61,61,63	1.37	7 (11%)
25	DGD	F	401	-	33,33,67	1.08	2 (6%)	35,35,81	1.31	4 (11%)
22	CLA	K	602	10	60,68,73	1.54	6 (10%)	70,107,113	1.41	7 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	CLA	H	310	7	45,53,73	1.78	6 (13%)	52,89,113	1.56	7 (13%)
22	CLA	V	608	17	55,63,73	1.62	5 (9%)	64,101,113	1.42	7 (10%)
22	CLA	U	412	26	45,53,73	1.78	5 (11%)	52,89,113	1.58	6 (11%)
24	DD6	R	612	-	39,45,45	1.99	3 (7%)	52,67,67	1.85	12 (23%)
22	CLA	Q	604	10	65,73,73	1.48	6 (9%)	76,113,113	1.37	7 (9%)
22	CLA	S	610	14	45,53,73	1.82	5 (11%)	52,89,113	1.65	7 (13%)
22	CLA	K	607	10	57,65,73	1.52	8 (14%)	66,103,113	1.55	10 (15%)
22	CLA	V	610	-	45,53,73	1.80	5 (11%)	52,89,113	1.54	8 (15%)
22	CLA	T	602	15	65,73,73	1.48	6 (9%)	76,113,113	1.36	8 (10%)
22	CLA	K	610	10	56,64,73	1.61	6 (10%)	65,102,113	1.44	6 (9%)
26	LHG	Q	616	22	43,43,48	1.16	6 (13%)	46,49,54	0.94	2 (4%)
22	CLA	K	609	26	60,68,73	1.53	6 (10%)	70,107,113	1.39	6 (8%)
24	DD6	R	613	-	39,45,45	2.01	3 (7%)	52,67,67	2.01	18 (34%)
24	DD6	A	858	-	39,45,45	1.97	2 (5%)	52,67,67	2.54	18 (34%)
22	CLA	W	411	18	60,68,73	1.53	6 (10%)	70,107,113	1.40	8 (11%)
26	LHG	N	616	-	42,42,48	1.17	6 (14%)	45,48,54	0.98	2 (4%)
22	CLA	T	601	15	45,53,73	1.78	6 (13%)	52,89,113	1.60	6 (11%)
22	CLA	O	309	13	50,58,73	1.68	6 (12%)	58,95,113	1.53	7 (12%)
22	CLA	W	413	-	45,53,73	1.77	6 (13%)	52,89,113	1.56	6 (11%)
22	CLA	O	310	13	60,68,73	1.53	6 (10%)	70,107,113	1.46	8 (11%)
22	CLA	G	608	26	60,68,73	1.54	5 (8%)	70,107,113	1.45	7 (10%)
24	DD6	P	612	-	39,45,45	2.04	2 (5%)	52,67,67	2.96	18 (34%)
22	CLA	A	820	20	65,73,73	1.50	5 (7%)	76,113,113	1.39	9 (11%)
22	CLA	B	810	-	56,64,73	1.59	6 (10%)	65,102,113	1.44	7 (10%)
27	LMU	A	856	-	21,21,36	0.46	0	26,26,47	0.50	0
22	CLA	B	839	26	65,73,73	1.47	6 (9%)	76,113,113	1.39	7 (9%)
31	CHL	U	407	-	46,54,74	2.40	9 (19%)	49,90,114	1.39	8 (16%)
21	BCR	B	801	-	41,41,41	0.69	0	56,56,56	1.96	16 (28%)
27	LMU	H	301	-	21,21,36	0.49	0	26,26,47	0.72	0
22	CLA	A	836	20	65,73,73	1.49	5 (7%)	76,113,113	1.35	8 (10%)
22	CLA	F	405	5	45,53,73	1.81	6 (13%)	52,89,113	1.52	6 (11%)
27	LMU	L	420	-	35,35,36	0.37	0	43,45,47	0.81	2 (4%)
24	DD6	Q	615	-	39,45,45	2.03	3 (7%)	52,67,67	1.90	14 (26%)
29	SF4	C	101	2	0,12,12	-	-	-	-	-
22	CLA	G	606	6	65,73,73	1.49	6 (9%)	76,113,113	1.32	6 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	CLA	G	604	-	45,53,73	1.78	6 (13%)	52,89,113	1.63	6 (11%)
26	LHG	L	416	22	41,41,48	1.17	6 (14%)	44,47,54	0.99	2 (4%)
22	CLA	U	403	16	45,53,73	1.80	6 (13%)	52,89,113	1.61	7 (13%)
22	CLA	A	807	20	65,73,73	1.48	5 (7%)	76,113,113	1.42	8 (10%)
22	CLA	H	313	7	58,66,73	1.60	6 (10%)	67,104,113	1.42	8 (11%)
22	CLA	A	814	20	65,73,73	1.48	6 (9%)	76,113,113	1.39	7 (9%)
22	CLA	U	404	16	65,73,73	1.47	6 (9%)	76,113,113	1.40	7 (9%)
27	LMU	L	419	-	27,27,36	0.41	0	30,30,47	0.75	0
21	BCR	B	846	-	41,41,41	0.71	0	56,56,56	1.82	17 (30%)
28	LMG	I	614	-	37,37,55	0.85	0	45,45,63	1.27	5 (11%)
22	CLA	R	604	-	45,53,73	1.79	5 (11%)	52,89,113	1.56	8 (15%)
22	CLA	L	409	26	60,68,73	1.55	6 (10%)	70,107,113	1.40	7 (10%)
28	LMG	K	618	-	49,49,55	0.76	0	57,57,63	1.31	7 (12%)
22	CLA	S	602	14	60,68,73	1.52	5 (8%)	70,107,113	1.46	9 (12%)
22	CLA	L	402	11	65,73,73	1.47	6 (9%)	76,113,113	1.37	6 (7%)
22	CLA	V	603	17	57,65,73	1.60	6 (10%)	66,103,113	1.46	6 (9%)
22	CLA	A	832	20	52,60,73	1.65	6 (11%)	60,97,113	1.52	6 (10%)
22	CLA	G	610	6	45,53,73	1.77	5 (11%)	52,89,113	1.57	6 (11%)
22	CLA	A	806	20	65,73,73	1.50	6 (9%)	76,113,113	1.36	7 (9%)
22	CLA	A	811	20	57,65,73	1.57	6 (10%)	66,103,113	1.54	9 (13%)
28	LMG	T	616	-	41,41,55	0.84	0	49,49,63	1.24	3 (6%)
22	CLA	A	844	26	55,63,73	1.60	7 (12%)	64,101,113	1.53	8 (12%)
22	CLA	N	607	-	60,68,73	1.54	5 (8%)	70,107,113	1.39	7 (10%)
27	LMU	H	321	-	34,34,36	0.48	0	44,44,47	0.79	2 (4%)
22	CLA	P	602	6	45,53,73	1.75	7 (15%)	52,89,113	1.63	8 (15%)
22	CLA	W	414	18	65,73,73	1.50	6 (9%)	76,113,113	1.35	9 (11%)
27	LMU	O	303	-	36,36,36	0.42	0	47,47,47	0.71	1 (2%)
22	CLA	A	818	20	53,61,73	1.62	5 (9%)	61,98,113	1.50	7 (11%)
27	LMU	B	849	-	24,24,36	0.45	0	29,29,47	0.65	0
22	CLA	X	407	-	65,73,73	1.48	6 (9%)	76,113,113	1.37	8 (10%)
21	BCR	A	848	-	41,41,41	0.71	0	56,56,56	1.81	10 (17%)
22	CLA	A	830	20	65,73,73	1.49	6 (9%)	76,113,113	1.38	8 (10%)
22	CLA	A	801	-	65,73,73	1.40	9 (13%)	76,113,113	1.46	10 (13%)
22	CLA	R	602	-	60,68,73	1.55	6 (10%)	70,107,113	1.41	7 (10%)
22	CLA	G	601	6	45,53,73	1.77	5 (11%)	52,89,113	1.60	7 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	DD6	X	401	-	39,45,45	1.98	3 (7%)	52,67,67	1.83	11 (21%)
22	CLA	I	606	8	61,69,73	1.55	6 (9%)	71,108,113	1.38	7 (9%)
26	LHG	U	419	22	24,24,48	1.42	5 (20%)	27,29,54	1.22	2 (7%)
22	CLA	A	842	20	65,73,73	1.51	5 (7%)	76,113,113	1.41	8 (10%)
22	CLA	G	605	-	45,53,73	1.77	5 (11%)	52,89,113	1.60	6 (11%)
22	CLA	W	415	18	45,53,73	1.84	6 (13%)	52,89,113	1.59	8 (15%)
22	CLA	J	102	9	50,58,73	1.68	6 (12%)	58,95,113	1.53	7 (12%)
22	CLA	N	610	8	55,63,73	1.62	5 (9%)	64,101,113	1.53	9 (14%)
22	CLA	A	827	-	62,70,73	1.50	5 (8%)	72,109,113	1.41	8 (11%)
22	CLA	X	402	19	55,63,73	1.61	5 (9%)	64,101,113	1.47	8 (12%)
26	LHG	K	616	22	38,38,48	1.22	5 (13%)	41,44,54	1.03	3 (7%)
22	CLA	U	409	-	45,53,73	1.78	6 (13%)	52,89,113	1.61	6 (11%)
22	CLA	I	610	8	45,53,73	1.77	6 (13%)	52,89,113	1.57	7 (13%)
22	CLA	G	602	6	60,68,73	1.52	6 (10%)	70,107,113	1.45	9 (12%)
22	CLA	T	605	-	65,73,73	1.50	6 (9%)	76,113,113	1.35	8 (10%)
22	CLA	A	822	-	65,73,73	1.47	5 (7%)	76,113,113	1.35	7 (9%)
22	CLA	O	308	-	61,69,73	1.52	6 (9%)	71,108,113	1.42	7 (9%)
22	CLA	A	803	-	65,73,73	1.51	6 (9%)	76,113,113	1.40	9 (11%)
24	DD6	S	612	-	39,45,45	1.99	3 (7%)	52,67,67	1.83	12 (23%)
26	LHG	T	614	22	41,41,48	1.19	6 (14%)	44,47,54	0.98	2 (4%)
22	CLA	U	411	16	57,65,73	1.56	5 (8%)	66,103,113	1.43	7 (10%)
27	LMU	J	104	-	34,35,36	0.36	0	42,45,47	0.89	2 (4%)
22	CLA	V	604	-	56,64,73	1.60	5 (8%)	65,102,113	1.46	7 (10%)
27	LMU	F	409	-	21,21,36	0.49	0	26,26,47	0.57	0
26	LHG	S	613	22	31,31,48	1.32	6 (19%)	34,37,54	1.12	3 (8%)
21	BCR	B	843	-	41,41,41	0.71	0	56,56,56	3.38	24 (42%)
26	LHG	B	848	22	26,26,48	1.33	5 (19%)	29,32,54	1.15	2 (6%)
33	CL0	A	802	20	65,73,73	1.80	15 (23%)	76,113,113	1.80	21 (27%)
22	CLA	L	406	-	65,73,73	1.49	6 (9%)	76,113,113	1.36	7 (9%)
25	DGD	O	304	-	61,61,67	0.87	3 (4%)	75,75,81	1.14	8 (10%)
22	CLA	A	834	20	45,53,73	1.81	6 (13%)	52,89,113	1.55	7 (13%)
24	DD6	H	315	-	39,45,45	1.99	3 (7%)	52,67,67	1.78	13 (25%)
23	PQN	B	840	-	34,34,34	1.61	2 (5%)	42,45,45	1.07	3 (7%)
24	DD6	W	416	-	39,45,45	1.97	3 (7%)	52,67,67	1.80	11 (21%)
22	CLA	N	604	-	45,53,73	1.79	6 (13%)	52,89,113	1.58	6 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
29	SF4	B	860	20,1	0,12,12	-	-	-		
27	LMU	O	320	-	27,27,36	0.53	0	28,31,47	0.82	2 (7%)
22	CLA	A	819	20	58,66,73	1.58	8 (13%)	67,104,113	1.50	9 (13%)
28	LMG	H	319	-	40,40,55	0.81	0	48,48,63	1.21	3 (6%)
22	CLA	B	826	1	58,66,73	1.58	6 (10%)	67,104,113	1.46	7 (10%)
22	CLA	X	412	19	65,73,73	1.50	6 (9%)	76,113,113	1.36	7 (9%)
22	CLA	A	831	20	65,73,73	1.48	6 (9%)	76,113,113	1.40	8 (10%)
22	CLA	T	603	15	60,68,73	1.56	6 (10%)	70,107,113	1.41	7 (10%)
30	SQD	F	407	-	41,42,54	0.42	1 (2%)	50,53,65	0.49	1 (2%)
28	LMG	U	402	-	53,53,55	0.72	0	61,61,63	1.31	4 (6%)
31	CHL	W	422	-	66,74,74	2.00	9 (13%)	73,114,114	1.17	8 (10%)
22	CLA	I	607	8	55,63,73	1.60	6 (10%)	64,101,113	1.48	8 (12%)
24	DD6	J	105	-	39,45,45	1.96	2 (5%)	52,67,67	1.88	13 (25%)
24	DD6	V	615	-	39,45,45	1.94	3 (7%)	52,67,67	1.87	13 (25%)
22	CLA	I	609	8	45,53,73	1.78	6 (13%)	52,89,113	1.65	6 (11%)
22	CLA	S	607	14	60,68,73	1.56	5 (8%)	70,107,113	1.43	7 (10%)
22	CLA	H	311	7	65,73,73	1.52	5 (7%)	76,113,113	1.38	9 (11%)
22	CLA	O	305	13	50,58,73	1.68	6 (12%)	58,95,113	1.54	9 (15%)
22	CLA	A	825	20	61,69,73	1.52	5 (8%)	71,108,113	1.39	8 (11%)
24	DD6	U	417	-	39,45,45	1.93	3 (7%)	52,67,67	1.87	15 (28%)
24	DD6	O	317	-	39,45,45	2.01	3 (7%)	52,67,67	1.79	14 (26%)
22	CLA	I	605	-	45,53,73	1.78	6 (13%)	52,89,113	1.62	7 (13%)
22	CLA	B	824	-	65,73,73	1.47	6 (9%)	76,113,113	1.44	8 (10%)
22	CLA	L	411	11	65,73,73	1.48	6 (9%)	76,113,113	1.37	8 (10%)
22	CLA	R	610	11	65,73,73	1.53	6 (9%)	76,113,113	1.33	8 (10%)
22	CLA	K	613	-	53,61,73	1.66	6 (11%)	61,98,113	1.46	7 (11%)
22	CLA	T	611	15	65,73,73	1.49	5 (7%)	76,113,113	1.37	7 (9%)
22	CLA	H	309	26	55,63,73	1.64	6 (10%)	64,101,113	1.44	7 (10%)
22	CLA	B	823	-	65,73,73	1.47	5 (7%)	76,113,113	1.38	6 (7%)
22	CLA	P	603	6	45,53,73	1.84	6 (13%)	52,89,113	1.47	6 (11%)
22	CLA	A	840	20	65,73,73	1.48	6 (9%)	76,113,113	1.37	8 (10%)
22	CLA	H	305	7	60,68,73	1.53	6 (10%)	70,107,113	1.44	7 (10%)
22	CLA	O	315	13	50,58,73	1.74	6 (12%)	58,95,113	1.49	9 (15%)
22	CLA	B	812	1	65,73,73	1.49	5 (7%)	76,113,113	1.39	8 (10%)
22	CLA	U	420	16	45,53,73	1.79	6 (13%)	52,89,113	1.56	6 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	LMU	M	102	-	24,24,36	0.44	0	29,29,47	0.61	0
22	CLA	I	604	-	45,53,73	1.78	5 (11%)	52,89,113	1.59	6 (11%)
22	CLA	N	609	8	45,53,73	1.77	6 (13%)	52,89,113	1.55	6 (11%)
22	CLA	U	413	16	45,53,73	1.78	5 (11%)	52,89,113	1.64	6 (11%)
22	CLA	S	615	-	51,59,73	1.68	6 (11%)	59,96,113	1.50	7 (11%)
22	CLA	B	803	1	56,64,73	1.61	5 (8%)	65,102,113	1.44	8 (12%)
22	CLA	R	603	-	56,64,73	1.60	6 (10%)	65,102,113	1.46	7 (10%)
22	CLA	X	404	19	60,68,73	1.58	6 (10%)	70,107,113	1.37	7 (10%)
28	LMG	H	322	-	37,37,55	0.85	0	45,45,63	1.23	4 (8%)
22	CLA	A	816	20	61,69,73	1.48	9 (14%)	71,108,113	1.49	11 (15%)
22	CLA	B	818	-	65,73,73	1.48	6 (9%)	76,113,113	1.40	7 (9%)
24	DD6	X	415	-	39,45,45	1.94	2 (5%)	52,67,67	1.71	10 (19%)
22	CLA	B	825	1	65,73,73	1.51	5 (7%)	76,113,113	1.42	8 (10%)
22	CLA	N	602	8	60,68,73	1.53	6 (10%)	70,107,113	1.44	7 (10%)
24	DD6	A	847	-	39,45,45	1.98	3 (7%)	52,67,67	1.85	15 (28%)
27	LMU	F	402	-	21,21,36	0.46	0	26,26,47	0.69	0
22	CLA	P	611	6	45,53,73	1.78	5 (11%)	52,89,113	1.66	7 (13%)
22	CLA	H	312	7	45,53,73	1.79	5 (11%)	52,89,113	1.55	6 (11%)
22	CLA	V	617	-	45,53,73	1.80	5 (11%)	52,89,113	1.57	6 (11%)
22	CLA	Q	601	-	45,53,73	1.82	6 (13%)	52,89,113	1.55	7 (13%)
22	CLA	T	606	15	50,58,73	1.70	5 (10%)	58,95,113	1.51	8 (13%)
22	CLA	V	601	17	45,53,73	1.84	5 (11%)	52,89,113	1.57	6 (11%)
22	CLA	I	608	-	45,53,73	1.78	6 (13%)	52,89,113	1.55	7 (13%)
22	CLA	P	604	-	45,53,73	1.78	5 (11%)	52,89,113	1.58	7 (13%)
26	LHG	O	318	22	33,33,48	1.29	6 (18%)	36,39,54	1.06	3 (8%)
26	LHG	O	321	-	48,48,48	1.11	6 (12%)	51,54,54	0.92	2 (3%)
22	CLA	Q	606	-	45,53,73	1.78	5 (11%)	52,89,113	1.58	6 (11%)
27	LMU	A	857	-	24,24,36	0.45	0	29,29,47	0.66	0
22	CLA	S	601	14	45,53,73	1.78	5 (11%)	52,89,113	1.61	6 (11%)
24	DD6	S	611	-	39,45,45	1.99	3 (7%)	52,67,67	1.78	13 (25%)
28	LMG	W	401	-	48,48,55	0.73	0	56,56,63	1.33	8 (14%)
26	LHG	W	420	22	41,41,48	1.19	6 (14%)	44,47,54	0.89	2 (4%)
22	CLA	H	308	7	60,68,73	1.52	5 (8%)	70,107,113	1.43	7 (10%)
22	CLA	A	835	20	61,69,73	1.53	6 (9%)	71,108,113	1.41	8 (11%)
27	LMU	X	418	-	24,24,36	0.43	0	29,29,47	0.55	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	LMU	U	421	-	36,36,36	0.41	0	47,47,47	0.65	1 (2%)
22	CLA	X	411	-	45,53,73	1.77	6 (13%)	52,89,113	1.63	7 (13%)
31	CHL	X	406	-	46,54,74	2.43	9 (19%)	49,90,114	1.40	7 (14%)
22	CLA	B	805	1	65,73,73	1.48	6 (9%)	76,113,113	1.41	7 (9%)
22	CLA	W	405	18	60,68,73	1.57	6 (10%)	70,107,113	1.40	7 (10%)
22	CLA	V	602	17	65,73,73	1.51	5 (7%)	76,113,113	1.36	8 (10%)
24	DD6	U	416	-	39,45,45	2.01	3 (7%)	52,67,67	1.80	11 (21%)
26	LHG	R	614	22	41,41,48	1.18	6 (14%)	44,47,54	0.96	2 (4%)
22	CLA	A	810	20	65,73,73	1.48	5 (7%)	76,113,113	1.36	8 (10%)
22	CLA	R	607	11	60,68,73	1.58	6 (10%)	70,107,113	1.39	8 (11%)
22	CLA	V	607	-	45,53,73	1.78	6 (13%)	52,89,113	1.61	7 (13%)
21	BCR	A	850	-	41,41,41	0.71	0	56,56,56	1.97	12 (21%)
22	CLA	B	804	1	65,73,73	1.47	6 (9%)	76,113,113	1.46	8 (10%)
22	CLA	A	808	20	65,73,73	1.46	6 (9%)	76,113,113	1.37	7 (9%)
22	CLA	L	405	-	45,53,73	1.79	6 (13%)	52,89,113	1.61	6 (11%)
22	CLA	T	608	26	60,68,73	1.54	5 (8%)	70,107,113	1.41	7 (10%)
26	LHG	O	324	-	41,41,48	1.18	5 (12%)	44,47,54	0.97	2 (4%)
27	LMU	X	421	-	36,36,36	0.40	0	47,47,47	0.67	1 (2%)
22	CLA	X	419	19	45,53,73	1.82	6 (13%)	52,89,113	1.55	6 (11%)
22	CLA	R	601	-	65,73,73	1.49	6 (9%)	76,113,113	1.36	9 (11%)
22	CLA	O	314	13	45,53,73	1.77	6 (13%)	52,89,113	1.54	6 (11%)
24	DD6	W	417	-	39,45,45	1.96	3 (7%)	52,67,67	1.76	11 (21%)
22	CLA	R	606	11	57,65,73	1.60	5 (8%)	66,103,113	1.44	8 (12%)
22	CLA	B	806	1	65,73,73	1.49	6 (9%)	76,113,113	1.41	7 (9%)
22	CLA	B	831	1	65,73,73	1.48	5 (7%)	76,113,113	1.38	7 (9%)
22	CLA	P	605	-	45,53,73	1.76	6 (13%)	52,89,113	1.59	7 (13%)
22	CLA	W	406	-	56,64,73	1.60	5 (8%)	65,102,113	1.44	6 (9%)
27	LMU	G	615	-	21,21,36	0.46	0	26,26,47	0.51	0
21	BCR	B	845	-	41,41,41	0.68	0	56,56,56	1.90	15 (26%)
28	LMG	K	622	-	43,43,55	0.80	0	51,51,63	1.27	5 (9%)
22	CLA	A	826	-	65,73,73	1.47	6 (9%)	76,113,113	1.41	6 (7%)
28	LMG	F	408	-	42,42,55	0.85	1 (2%)	50,50,63	1.32	4 (8%)
24	DD6	L	415	-	39,45,45	2.01	2 (5%)	52,67,67	1.96	17 (32%)
24	DD6	L	413	-	39,45,45	2.00	3 (7%)	52,67,67	1.78	12 (23%)
27	LMU	T	615	-	21,21,36	0.47	0	26,26,47	0.59	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	CLA	I	601	8	65,73,73	1.52	6 (9%)	76,113,113	1.34	7 (9%)
22	CLA	W	409	-	65,73,73	1.48	6 (9%)	76,113,113	1.38	7 (9%)
30	SQD	K	621	-	42,43,54	0.42	1 (2%)	51,54,65	0.53	0
31	CHL	V	605	-	46,54,74	2.41	9 (19%)	49,90,114	1.38	7 (14%)
22	CLA	P	606	6	45,53,73	1.75	6 (13%)	52,89,113	1.60	6 (11%)
28	LMG	N	615	-	44,44,55	0.78	0	52,52,63	1.26	4 (7%)
24	DD6	N	613	-	39,45,45	2.00	3 (7%)	52,67,67	1.86	15 (28%)
22	CLA	A	837	20	50,58,73	1.70	6 (12%)	58,95,113	1.50	9 (15%)
22	CLA	S	609	14	55,63,73	1.64	5 (9%)	64,101,113	1.42	8 (12%)
27	LMU	A	853	-	24,24,36	0.43	0	29,29,47	0.57	0

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
24	DD6	G	612	-	-	0/26/80/80	0/3/3/3
31	CHL	V	606	-	3/3/16/26	1/15/113/137	-
26	LHG	P	601	-	-	23/44/44/53	-
22	CLA	N	601	8	1/1/11/20	4/13/91/115	-
28	LMG	A	855	-	-	12/36/56/70	0/1/1/1
22	CLA	A	838	20	1/1/12/20	7/22/100/115	-
22	CLA	H	307	7	1/1/14/20	11/31/109/115	-
24	DD6	Q	614	-	-	1/26/80/80	0/3/3/3
22	CLA	R	608	26	1/1/12/20	8/24/102/115	-
21	BCR	A	849	-	-	0/29/63/63	0/2/2/2
22	CLA	G	611	6	1/1/11/20	5/13/91/115	-
21	BCR	M	101	-	-	2/29/63/63	0/2/2/2
22	CLA	Q	610	26	1/1/15/20	14/37/115/115	-
24	DD6	I	612	-	-	0/26/80/80	0/3/3/3
22	CLA	L	417	11	1/1/15/20	8/37/115/115	-
22	CLA	N	605	-	1/1/11/20	1/13/91/115	-
22	CLA	W	412	26	1/1/14/20	3/31/109/115	-
22	CLA	O	312	13	1/1/14/20	8/31/109/115	-
27	LMU	A	854	-	-	3/21/61/61	0/2/2/2
28	LMG	J	101	-	-	23/50/70/70	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	T	610	-	1/1/11/20	5/13/91/115	-
22	CLA	S	603	14	1/1/11/20	3/13/91/115	-
22	CLA	U	401	-	1/1/13/20	9/25/103/115	-
22	CLA	B	834	1	1/1/15/20	7/37/115/115	-
22	CLA	B	809	1	1/1/15/20	3/37/115/115	-
22	CLA	U	414	16	1/1/14/20	14/33/111/115	-
22	CLA	A	828	20	1/1/15/20	8/37/115/115	-
22	CLA	K	608	10	1/1/15/20	11/37/115/115	-
22	CLA	K	605	-	1/1/15/20	17/37/115/115	-
22	CLA	O	319	13	1/1/11/20	1/13/91/115	-
22	CLA	Q	603	10	1/1/11/20	4/13/91/115	-
28	LMG	I	615	-	-	26/46/62/70	0/1/1/1
22	CLA	X	403	19	1/1/15/20	7/37/115/115	-
22	CLA	X	413	19	1/1/11/20	3/13/91/115	-
26	LHG	O	323	-	-	19/47/47/53	-
22	CLA	F	403	-	1/1/15/20	9/37/115/115	-
24	DD6	N	612	-	-	0/26/80/80	0/3/3/3
24	DD6	F	406	-	-	7/26/80/80	0/3/3/3
22	CLA	F	404	-	1/1/13/20	10/25/103/115	-
22	CLA	G	607	-	1/1/14/20	3/31/109/115	-
22	CLA	R	605	-	1/1/15/20	15/37/115/115	-
24	DD6	I	613	-	-	0/26/80/80	0/3/3/3
22	CLA	K	606	-	1/1/12/20	1/19/97/115	-
22	CLA	B	829	-	1/1/11/20	7/13/91/115	-
27	LMU	T	617	-	-	3/15/35/61	0/1/1/2
22	CLA	K	603	10	1/1/14/20	7/31/109/115	-
22	CLA	G	609	-	1/1/11/20	4/13/91/115	-
22	CLA	L	404	-	1/1/13/20	12/27/105/115	-
22	CLA	N	603	8	1/1/15/20	10/37/115/115	-
23	PQN	A	843	-	-	4/23/43/43	0/2/2/2
22	CLA	X	417	19	1/1/12/20	5/19/97/115	-
22	CLA	A	824	20	1/1/15/20	23/37/115/115	-
22	CLA	L	407	-	1/1/13/20	11/28/106/115	-
31	CHL	W	407	-	3/3/16/26	2/15/113/137	-
22	CLA	H	304	7	1/1/11/20	6/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	DD6	X	414	-	-	1/26/80/80	0/3/3/3
26	LHG	G	614	22	-	13/36/36/53	-
22	CLA	T	607	15	1/1/14/20	9/31/109/115	-
24	DD6	K	614	-	-	0/26/80/80	0/3/3/3
22	CLA	A	833	20	1/1/15/20	6/37/115/115	-
24	DD6	B	841	-	-	1/26/80/80	0/3/3/3
22	CLA	U	406	-	1/1/13/20	5/27/105/115	-
22	CLA	B	808	1	1/1/13/20	7/25/103/115	-
22	CLA	A	813	20	1/1/15/20	8/37/115/115	-
31	CHL	U	408	-	3/3/16/26	1/15/113/137	-
22	CLA	L	408	11	1/1/14/20	6/31/109/115	-
22	CLA	S	614	-	1/1/11/20	0/13/91/115	-
27	LMU	U	424	-	-	2/15/35/61	0/1/1/2
22	CLA	B	828	1	1/1/15/20	15/37/115/115	-
28	LMG	L	401	-	-	20/46/66/70	0/1/1/1
22	CLA	A	841	20	1/1/15/20	10/37/115/115	-
24	DD6	A	859	-	-	1/26/80/80	0/3/3/3
22	CLA	Q	613	10	1/1/11/20	4/13/91/115	-
22	CLA	T	604	15	1/1/15/20	18/37/115/115	-
30	SQD	V	618	-	-	4/19/39/69	0/1/1/1
22	CLA	B	820	1	1/1/12/20	8/23/101/115	-
22	CLA	R	615	11	1/1/15/20	12/37/115/115	-
22	CLA	I	611	8	1/1/11/20	6/13/91/115	-
22	CLA	V	611	-	1/1/11/20	3/13/91/115	-
22	CLA	B	838	1	1/1/11/20	5/13/91/115	-
22	CLA	P	610	6	1/1/10/20	3/8/86/115	-
22	CLA	B	837	-	1/1/11/20	1/13/91/115	-
27	LMU	B	855	-	-	2/15/35/61	0/1/1/2
22	CLA	U	410	16	1/1/13/20	7/25/103/115	-
22	CLA	B	830	1	1/1/15/20	9/37/115/115	-
22	CLA	B	814	1	1/1/11/20	6/13/91/115	-
26	LHG	N	614	22	-	9/32/32/53	-
22	CLA	S	606	14	1/1/12/20	2/19/97/115	-
22	CLA	U	405	16	1/1/13/20	5/28/106/115	-
32	NEX	V	616	-	-	4/27/83/83	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
27	LMU	L	418	-	-	0/15/35/61	0/1/1/2
22	CLA	P	608	-	1/1/11/20	7/13/91/115	-
26	LHG	A	846	22	-	27/53/53/53	-
22	CLA	N	606	8	1/1/15/20	13/37/115/115	-
28	LMG	H	317	-	-	13/38/58/70	0/1/1/1
27	LMU	T	618	-	-	1/15/35/61	0/1/1/2
22	CLA	B	832	1	1/1/14/20	12/34/112/115	-
22	CLA	H	302	7	1/1/11/20	2/13/91/115	-
22	CLA	L	412	11	1/1/11/20	5/13/91/115	-
22	CLA	B	821	1	1/1/14/20	11/31/109/115	-
22	CLA	X	408	19	1/1/15/20	12/37/115/115	-
28	LMG	Q	602	-	-	11/32/52/70	0/1/1/1
22	CLA	B	836	1	1/1/12/20	2/21/99/115	-
22	CLA	R	609	-	1/1/10/20	3/8/86/115	-
22	CLA	K	612	10	1/1/11/20	2/13/91/115	-
28	LMG	U	423	-	-	20/44/64/70	0/1/1/1
22	CLA	W	419	18	1/1/11/20	6/13/91/115	-
22	CLA	B	807	1	1/1/15/20	13/37/115/115	-
22	CLA	S	604	-	1/1/14/20	9/31/109/115	-
22	CLA	B	813	1	1/1/15/20	10/37/115/115	-
22	CLA	B	815	1	1/1/12/20	3/22/100/115	-
22	CLA	Q	608	10	1/1/12/20	3/19/97/115	-
22	CLA	A	812	20	1/1/13/20	10/28/106/115	-
22	CLA	B	817	1	1/1/15/20	15/37/115/115	-
22	CLA	U	415	16	1/1/11/20	5/13/91/115	-
27	LMU	U	422	-	-	5/21/61/61	0/2/2/2
26	LHG	K	619	-	-	19/37/37/53	-
24	DD6	G	613	-	-	1/26/80/80	0/3/3/3
22	CLA	A	829	20	1/1/15/20	15/37/115/115	-
28	LMG	B	852	-	-	15/38/58/70	0/1/1/1
32	NEX	U	418	-	-	4/27/83/83	0/3/3/3
22	CLA	O	311	26	1/1/14/20	7/31/109/115	-
22	CLA	V	613	-	1/1/11/20	9/13/91/115	-
21	BCR	A	851	-	-	4/29/63/63	0/2/2/2
22	CLA	S	608	26	1/1/11/20	7/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	K	604	-	1/1/14/20	19/35/113/115	-
31	CHL	W	408	-	3/3/20/26	5/39/137/137	-
22	CLA	K	611	10	1/1/15/20	11/37/115/115	-
25	DGD	B	847	-	-	33/55/95/95	0/2/2/2
26	LHG	X	420	22	-	28/46/46/53	-
27	LMU	B	853	-	-	0/10/27/61	0/1/1/2
22	CLA	O	313	13	1/1/15/20	14/37/115/115	-
22	CLA	B	833	1	1/1/15/20	7/37/115/115	-
22	CLA	L	410	11	1/1/14/20	8/31/109/115	-
21	BCR	J	103	-	-	2/29/63/63	0/2/2/2
22	CLA	I	603	8	1/1/13/20	9/27/105/115	-
22	CLA	B	859	-	1/1/15/20	10/37/115/115	-
22	CLA	W	402	18	1/1/13/20	2/25/103/115	-
22	CLA	B	822	1	1/1/15/20	10/37/115/115	-
22	CLA	O	307	13	1/1/11/20	3/13/91/115	-
28	LMG	K	601	-	-	24/38/58/70	0/1/1/1
27	LMU	K	620	-	-	6/19/56/61	0/2/2/2
22	CLA	V	609	17	1/1/13/20	8/28/106/115	-
22	CLA	Q	612	10	1/1/15/20	15/37/115/115	-
27	LMU	B	857	-	-	4/21/61/61	0/2/2/2
28	LMG	G	616	-	-	21/41/61/70	0/1/1/1
22	CLA	T	609	15	1/1/11/20	5/13/91/115	-
22	CLA	A	805	20	1/1/14/20	9/33/111/115	-
22	CLA	A	852	-	1/1/15/20	14/37/115/115	-
22	CLA	Q	617	10	1/1/12/20	5/22/100/115	-
22	CLA	W	410	18	1/1/14/20	10/31/109/115	-
22	CLA	O	306	13	1/1/14/20	7/31/109/115	-
22	CLA	S	605	-	1/1/14/20	14/31/109/115	-
22	CLA	I	602	8	1/1/14/20	3/31/109/115	-
27	LMU	B	854	-	-	3/15/35/61	0/1/1/2
22	CLA	B	819	1	1/1/12/20	7/23/101/115	-
24	DD6	K	615	-	-	0/26/80/80	0/3/3/3
22	CLA	Q	618	-	1/1/11/20	7/13/91/115	-
22	CLA	A	823	20	1/1/11/20	5/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	LHG	H	316	22	-	5/31/31/53	-
22	CLA	X	409	19	1/1/15/20	10/37/115/115	-
22	CLA	B	816	1	1/1/15/20	13/37/115/115	-
22	CLA	A	817	20	1/1/15/20	16/37/115/115	-
26	LHG	B	851	-	-	22/46/46/53	-
22	CLA	A	815	20	1/1/15/20	6/37/115/115	-
22	CLA	H	306	-	1/1/13/20	8/25/103/115	-
22	CLA	K	617	10	1/1/15/20	12/37/115/115	-
27	LMU	H	320	-	-	2/15/35/61	0/1/1/2
22	CLA	A	804	-	1/1/15/20	6/37/115/115	-
22	CLA	G	603	6	1/1/13/20	10/27/105/115	-
27	LMU	O	322	-	-	5/21/61/61	0/2/2/2
24	DD6	H	314	-	-	1/26/80/80	0/3/3/3
22	CLA	W	403	18	1/1/12/20	5/22/100/115	-
22	CLA	Q	605	-	1/1/13/20	3/27/105/115	-
22	CLA	H	303	7	1/1/14/20	11/31/109/115	-
24	DD6	P	613	-	-	4/26/80/80	0/3/3/3
24	DD6	L	414	-	-	2/26/80/80	0/3/3/3
22	CLA	Q	611	10	1/1/13/20	9/25/103/115	-
22	CLA	B	802	1	1/1/15/20	6/37/115/115	-
22	CLA	A	821	20	1/1/15/20	15/37/115/115	-
27	LMU	B	850	-	-	3/15/35/61	0/1/1/2
27	LMU	W	421	-	-	4/15/35/61	0/1/1/2
24	DD6	T	612	-	-	1/26/80/80	0/3/3/3
22	CLA	A	839	20	1/1/15/20	6/37/115/115	-
22	CLA	L	403	11	1/1/14/20	5/31/109/115	-
26	LHG	A	845	-	-	25/53/53/53	-
22	CLA	N	611	-	1/1/9/20	2/8/82/115	-
22	CLA	B	811	1	1/1/11/20	2/13/91/115	-
21	BCR	B	842	-	-	2/29/63/63	0/2/2/2
24	DD6	T	613	-	-	1/26/80/80	0/3/3/3
24	DD6	X	416	-	-	5/26/80/80	0/3/3/3
22	CLA	B	835	1	1/1/15/20	11/37/115/115	-
22	CLA	V	612	-	1/1/15/20	13/37/115/115	-
29	SF4	C	102	2	-	-	0/6/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	N	608	26	1/1/11/20	5/13/91/115	-
24	DD6	O	316	-	-	1/26/80/80	0/3/3/3
22	CLA	A	809	20	1/1/12/20	1/23/101/115	-
22	CLA	W	404	18	1/1/15/20	10/37/115/115	-
24	DD6	W	418	-	-	1/26/80/80	0/3/3/3
22	CLA	X	410	26	1/1/14/20	12/31/109/115	-
30	SQD	O	302	-	-	5/37/57/69	0/1/1/1
22	CLA	H	318	7	1/1/11/20	6/13/91/115	-
22	CLA	P	607	6	1/1/11/20	4/13/91/115	-
22	CLA	Q	607	-	1/1/11/20	3/13/91/115	-
27	LMU	B	858	-	-	2/12/12/61	-
22	CLA	P	609	-	1/1/11/20	8/13/91/115	-
22	CLA	Q	609	10	1/1/14/20	9/31/109/115	-
24	DD6	V	614	-	-	1/26/80/80	0/3/3/3
27	LMU	O	301	-	-	1/15/35/61	0/1/1/2
22	CLA	X	405	-	1/1/13/20	8/27/105/115	-
22	CLA	R	611	11	1/1/11/20	6/13/91/115	-
22	CLA	B	827	1	1/1/15/20	9/37/115/115	-
21	BCR	B	844	-	-	1/29/63/63	0/2/2/2
28	LMG	B	856	-	-	26/48/68/70	0/1/1/1
25	DGD	F	401	-	-	19/35/35/95	-
22	CLA	K	602	10	1/1/14/20	11/31/109/115	-
22	CLA	H	310	7	1/1/11/20	3/13/91/115	-
22	CLA	V	608	17	1/1/13/20	6/25/103/115	-
22	CLA	U	412	26	1/1/11/20	2/13/91/115	-
24	DD6	R	612	-	-	1/26/80/80	0/3/3/3
22	CLA	Q	604	10	1/1/15/20	14/37/115/115	-
22	CLA	S	610	14	1/1/11/20	2/13/91/115	-
22	CLA	K	607	10	1/1/13/20	9/28/106/115	-
22	CLA	V	610	-	1/1/11/20	2/13/91/115	-
22	CLA	T	602	15	1/1/15/20	9/37/115/115	-
22	CLA	K	610	10	1/1/13/20	8/27/105/115	-
26	LHG	Q	616	22	-	15/48/48/53	-
22	CLA	K	609	26	1/1/14/20	11/31/109/115	-
24	DD6	R	613	-	-	1/26/80/80	0/3/3/3
24	DD6	A	858	-	-	5/26/80/80	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	W	411	18	1/1/14/20	10/31/109/115	-
26	LHG	N	616	-	-	23/47/47/53	-
22	CLA	T	601	15	1/1/11/20	5/13/91/115	-
22	CLA	O	309	13	1/1/12/20	2/19/97/115	-
22	CLA	W	413	-	1/1/11/20	6/13/91/115	-
22	CLA	O	310	13	1/1/14/20	9/31/109/115	-
22	CLA	G	608	26	1/1/14/20	16/31/109/115	-
24	DD6	P	612	-	-	6/26/80/80	0/3/3/3
22	CLA	A	820	20	1/1/15/20	12/37/115/115	-
22	CLA	B	810	-	1/1/13/20	4/27/105/115	-
27	LMU	A	856	-	-	0/12/32/61	0/1/1/2
22	CLA	B	839	26	1/1/15/20	3/37/115/115	-
31	CHL	U	407	-	3/3/16/26	0/15/113/137	-
21	BCR	B	801	-	-	4/29/63/63	0/2/2/2
27	LMU	H	301	-	-	2/12/32/61	0/1/1/2
22	CLA	A	836	20	1/1/15/20	10/37/115/115	-
22	CLA	F	405	5	1/1/11/20	5/13/91/115	-
27	LMU	L	420	-	-	4/21/57/61	1/2/2/2
24	DD6	Q	615	-	-	0/26/80/80	0/3/3/3
29	SF4	C	101	2	-	-	0/6/5/5
22	CLA	G	606	6	1/1/15/20	12/37/115/115	-
22	CLA	G	604	-	1/1/11/20	0/13/91/115	-
26	LHG	L	416	22	-	20/46/46/53	-
22	CLA	U	403	16	1/1/11/20	8/13/91/115	-
22	CLA	A	807	20	1/1/15/20	13/37/115/115	-
22	CLA	H	313	7	1/1/13/20	8/29/107/115	-
22	CLA	A	814	20	1/1/15/20	9/37/115/115	-
22	CLA	U	404	16	1/1/15/20	14/37/115/115	-
27	LMU	L	419	-	-	6/21/34/61	1/1/1/2
21	BCR	B	846	-	-	6/29/63/63	0/2/2/2
28	LMG	I	614	-	-	10/32/52/70	0/1/1/1
22	CLA	R	604	-	1/1/11/20	5/13/91/115	-
22	CLA	L	409	26	1/1/14/20	4/31/109/115	-
28	LMG	K	618	-	-	24/44/64/70	0/1/1/1
22	CLA	S	602	14	1/1/14/20	9/31/109/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	L	402	11	1/1/15/20	17/37/115/115	-
22	CLA	V	603	17	1/1/13/20	11/28/106/115	-
22	CLA	A	832	20	1/1/12/20	5/22/100/115	-
22	CLA	G	610	6	1/1/11/20	5/13/91/115	-
22	CLA	A	806	20	1/1/15/20	10/37/115/115	-
22	CLA	A	811	20	1/1/13/20	10/28/106/115	-
28	LMG	T	616	-	-	16/36/56/70	0/1/1/1
22	CLA	A	844	26	1/1/13/20	12/25/103/115	-
22	CLA	N	607	-	1/1/14/20	14/31/109/115	-
27	LMU	H	321	-	-	1/19/56/61	0/2/2/2
22	CLA	P	602	6	1/1/11/20	10/13/91/115	-
22	CLA	W	414	18	1/1/15/20	8/37/115/115	-
27	LMU	O	303	-	-	2/21/61/61	0/2/2/2
22	CLA	A	818	20	1/1/12/20	4/23/101/115	-
27	LMU	B	849	-	-	2/15/35/61	0/1/1/2
22	CLA	X	407	-	1/1/15/20	4/37/115/115	-
21	BCR	A	848	-	-	0/29/63/63	0/2/2/2
22	CLA	A	830	20	1/1/15/20	13/37/115/115	-
22	CLA	A	801	-	1/1/15/20	15/37/115/115	-
22	CLA	R	602	-	1/1/14/20	12/31/109/115	-
22	CLA	G	601	6	1/1/11/20	6/13/91/115	-
24	DD6	X	401	-	-	0/26/80/80	0/3/3/3
22	CLA	I	606	8	1/1/14/20	10/33/111/115	-
26	LHG	U	419	22	-	15/28/28/53	-
22	CLA	A	842	20	1/1/15/20	12/37/115/115	-
22	CLA	G	605	-	1/1/11/20	3/13/91/115	-
22	CLA	W	415	18	1/1/11/20	6/13/91/115	-
22	CLA	J	102	9	1/1/12/20	7/19/97/115	-
22	CLA	N	610	8	1/1/13/20	16/25/103/115	-
22	CLA	A	827	-	1/1/14/20	5/34/112/115	-
22	CLA	X	402	19	1/1/13/20	11/25/103/115	-
26	LHG	K	616	22	-	18/43/43/53	-
22	CLA	U	409	-	1/1/11/20	6/13/91/115	-
22	CLA	I	610	8	1/1/11/20	7/13/91/115	-
22	CLA	G	602	6	1/1/14/20	4/31/109/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	T	605	-	1/1/15/20	13/37/115/115	-
22	CLA	A	822	-	1/1/15/20	8/37/115/115	-
22	CLA	O	308	-	1/1/14/20	14/33/111/115	-
22	CLA	A	803	-	1/1/15/20	12/37/115/115	-
24	DD6	S	612	-	-	1/26/80/80	0/3/3/3
26	LHG	T	614	22	-	27/46/46/53	-
22	CLA	U	411	16	1/1/13/20	7/28/106/115	-
27	LMU	J	104	-	-	9/21/57/61	0/2/2/2
22	CLA	V	604	-	1/1/13/20	9/27/105/115	-
27	LMU	F	409	-	-	4/12/32/61	0/1/1/2
26	LHG	S	613	22	-	13/36/36/53	-
21	BCR	B	843	-	-	4/29/63/63	0/2/2/2
33	CL0	A	802	20	3/3/20/25	6/37/135/135	-
26	LHG	B	848	22	-	10/31/31/53	-
22	CLA	L	406	-	1/1/15/20	10/37/115/115	-
25	DGD	O	304	-	-	31/49/89/95	0/2/2/2
22	CLA	A	834	20	1/1/11/20	3/13/91/115	-
24	DD6	H	315	-	-	1/26/80/80	0/3/3/3
23	PQN	B	840	-	-	0/23/43/43	0/2/2/2
24	DD6	W	416	-	-	1/26/80/80	0/3/3/3
22	CLA	N	604	-	1/1/11/20	6/13/91/115	-
29	SF4	B	860	20,1	-	-	0/6/5/5
27	LMU	O	320	-	-	1/17/35/61	0/2/2/2
22	CLA	A	819	20	1/1/13/20	11/29/107/115	-
28	LMG	H	319	-	-	19/35/55/70	0/1/1/1
22	CLA	B	826	1	1/1/13/20	10/29/107/115	-
22	CLA	X	412	19	1/1/15/20	11/37/115/115	-
22	CLA	A	831	20	1/1/15/20	6/37/115/115	-
22	CLA	T	603	15	1/1/14/20	8/31/109/115	-
30	SQD	F	407	-	-	2/37/57/69	0/1/1/1
28	LMG	U	402	-	-	25/48/68/70	0/1/1/1
31	CHL	W	422	-	3/3/20/26	9/39/137/137	-
22	CLA	I	607	8	1/1/13/20	4/25/103/115	-
24	DD6	J	105	-	-	3/26/80/80	0/3/3/3
24	DD6	V	615	-	-	3/26/80/80	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	I	609	8	1/1/11/20	4/13/91/115	-
22	CLA	S	607	14	1/1/14/20	9/31/109/115	-
22	CLA	H	311	7	1/1/15/20	15/37/115/115	-
22	CLA	O	305	13	1/1/12/20	4/19/97/115	-
22	CLA	A	825	20	1/1/14/20	15/33/111/115	-
24	DD6	U	417	-	-	1/26/80/80	0/3/3/3
24	DD6	O	317	-	-	0/26/80/80	0/3/3/3
22	CLA	I	605	-	1/1/11/20	2/13/91/115	-
22	CLA	B	824	-	1/1/15/20	11/37/115/115	-
22	CLA	L	411	11	1/1/15/20	14/37/115/115	-
22	CLA	R	610	11	1/1/15/20	10/37/115/115	-
22	CLA	K	613	-	1/1/12/20	3/23/101/115	-
22	CLA	T	611	15	1/1/15/20	14/37/115/115	-
22	CLA	H	309	26	1/1/13/20	8/25/103/115	-
22	CLA	B	823	-	1/1/15/20	10/37/115/115	-
22	CLA	P	603	6	-	3/13/91/115	-
22	CLA	A	840	20	1/1/15/20	16/37/115/115	-
22	CLA	H	305	7	1/1/14/20	11/31/109/115	-
22	CLA	O	315	13	1/1/12/20	2/19/97/115	-
22	CLA	B	812	1	1/1/15/20	18/37/115/115	-
22	CLA	U	420	16	1/1/11/20	7/13/91/115	-
27	LMU	M	102	-	-	4/15/35/61	0/1/1/2
22	CLA	I	604	-	1/1/11/20	1/13/91/115	-
22	CLA	N	609	8	1/1/11/20	4/13/91/115	-
22	CLA	U	413	16	1/1/11/20	5/13/91/115	-
22	CLA	S	615	-	1/1/12/20	2/21/99/115	-
22	CLA	B	803	1	1/1/13/20	5/27/105/115	-
22	CLA	R	603	-	1/1/13/20	10/27/105/115	-
22	CLA	X	404	19	1/1/14/20	8/31/109/115	-
28	LMG	H	322	-	-	15/32/52/70	0/1/1/1
22	CLA	A	816	20	1/1/14/20	14/33/111/115	-
22	CLA	B	818	-	1/1/15/20	12/37/115/115	-
24	DD6	X	415	-	-	1/26/80/80	0/3/3/3
22	CLA	B	825	1	1/1/15/20	10/37/115/115	-
22	CLA	N	602	8	1/1/14/20	5/31/109/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	DD6	A	847	-	-	1/26/80/80	0/3/3/3
27	LMU	F	402	-	-	1/12/32/61	0/1/1/2
22	CLA	P	611	6	1/1/11/20	6/13/91/115	-
22	CLA	H	312	7	1/1/11/20	3/13/91/115	-
22	CLA	V	617	-	1/1/11/20	8/13/91/115	-
22	CLA	Q	601	-	1/1/11/20	4/13/91/115	-
22	CLA	T	606	15	1/1/12/20	5/19/97/115	-
22	CLA	V	601	17	1/1/11/20	4/13/91/115	-
22	CLA	I	608	-	1/1/11/20	3/13/91/115	-
22	CLA	P	604	-	1/1/11/20	6/13/91/115	-
26	LHG	O	318	22	-	16/38/38/53	-
26	LHG	O	321	-	-	30/53/53/53	-
22	CLA	Q	606	-	1/1/11/20	7/13/91/115	-
27	LMU	A	857	-	-	3/15/35/61	0/1/1/2
22	CLA	S	601	14	1/1/11/20	6/13/91/115	-
24	DD6	S	611	-	-	1/26/80/80	0/3/3/3
28	LMG	W	401	-	-	19/43/63/70	0/1/1/1
26	LHG	W	420	22	-	22/46/46/53	-
22	CLA	H	308	7	1/1/14/20	6/31/109/115	-
22	CLA	A	835	20	1/1/14/20	9/33/111/115	-
27	LMU	X	418	-	-	1/15/35/61	0/1/1/2
27	LMU	U	421	-	-	7/21/61/61	0/2/2/2
22	CLA	X	411	-	1/1/11/20	3/13/91/115	-
31	CHL	X	406	-	3/3/16/26	0/15/113/137	-
22	CLA	B	805	1	1/1/15/20	7/37/115/115	-
22	CLA	W	405	18	1/1/14/20	3/31/109/115	-
22	CLA	V	602	17	1/1/15/20	6/37/115/115	-
24	DD6	U	416	-	-	1/26/80/80	0/3/3/3
26	LHG	R	614	22	-	20/46/46/53	-
22	CLA	A	810	20	1/1/15/20	9/37/115/115	-
22	CLA	R	607	11	1/1/14/20	15/31/109/115	-
22	CLA	V	607	-	1/1/11/20	3/13/91/115	-
22	CLA	B	804	1	1/1/15/20	15/37/115/115	-
21	BCR	A	850	-	-	4/29/63/63	0/2/2/2
22	CLA	A	808	20	1/1/15/20	12/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	L	405	-	1/1/11/20	3/13/91/115	-
22	CLA	T	608	26	1/1/14/20	4/31/109/115	-
26	LHG	O	324	-	-	25/46/46/53	-
27	LMU	X	421	-	-	3/21/61/61	0/2/2/2
22	CLA	X	419	19	1/1/11/20	7/13/91/115	-
22	CLA	R	601	-	1/1/15/20	17/37/115/115	-
22	CLA	O	314	13	1/1/11/20	1/13/91/115	-
24	DD6	W	417	-	-	1/26/80/80	0/3/3/3
22	CLA	R	606	11	1/1/13/20	12/28/106/115	-
22	CLA	B	806	1	1/1/15/20	13/37/115/115	-
22	CLA	B	831	1	1/1/15/20	7/37/115/115	-
22	CLA	P	605	-	1/1/11/20	8/13/91/115	-
22	CLA	W	406	-	1/1/13/20	2/27/105/115	-
27	LMU	G	615	-	-	0/12/32/61	0/1/1/2
21	BCR	B	845	-	-	2/29/63/63	0/2/2/2
28	LMG	K	622	-	-	15/38/58/70	0/1/1/1
22	CLA	A	826	-	1/1/15/20	8/37/115/115	-
28	LMG	F	408	-	-	18/37/57/70	0/1/1/1
24	DD6	L	415	-	-	3/26/80/80	0/3/3/3
24	DD6	L	413	-	-	1/26/80/80	0/3/3/3
27	LMU	T	615	-	-	0/12/32/61	0/1/1/2
22	CLA	I	601	8	1/1/15/20	13/37/115/115	-
22	CLA	W	409	-	1/1/15/20	10/37/115/115	-
31	CHL	V	605	-	3/3/16/26	0/15/113/137	-
30	SQD	K	621	-	-	5/38/58/69	0/1/1/1
22	CLA	P	606	6	1/1/11/20	6/13/91/115	-
28	LMG	N	615	-	-	24/39/59/70	0/1/1/1
24	DD6	N	613	-	-	4/26/80/80	0/3/3/3
22	CLA	A	837	20	1/1/12/20	4/19/97/115	-
22	CLA	S	609	14	-	7/25/103/115	-
27	LMU	A	853	-	-	0/15/35/61	0/1/1/2

All (1972) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	U	408	CHL	C4B-NB	12.20	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	V	606	CHL	C4B-NB	12.11	1.46	1.35
31	W	408	CHL	C4B-NB	12.03	1.45	1.35
31	V	605	CHL	C4B-NB	11.97	1.45	1.35
31	W	422	CHL	C4B-NB	11.92	1.45	1.35
31	X	406	CHL	C4B-NB	11.91	1.45	1.35
31	W	407	CHL	C4B-NB	11.90	1.45	1.35
31	U	407	CHL	C4B-NB	11.76	1.45	1.35
24	A	859	DD6	C29-C27	-8.82	1.25	1.42
24	I	613	DD6	C29-C27	-8.81	1.25	1.42
24	W	418	DD6	C29-C27	-8.76	1.25	1.42
24	P	612	DD6	C29-C27	-8.75	1.25	1.42
24	Q	615	DD6	C29-C27	-8.72	1.25	1.42
24	G	613	DD6	C29-C27	-8.71	1.25	1.42
24	P	613	DD6	C29-C27	-8.70	1.25	1.42
24	T	612	DD6	C29-C27	-8.69	1.25	1.42
24	O	317	DD6	C29-C27	-8.64	1.25	1.42
24	L	413	DD6	C29-C27	-8.64	1.25	1.42
24	H	315	DD6	C29-C27	-8.63	1.25	1.42
24	R	613	DD6	C29-C27	-8.63	1.25	1.42
24	S	612	DD6	C29-C27	-8.61	1.26	1.42
24	U	416	DD6	C29-C27	-8.61	1.26	1.42
24	V	614	DD6	C29-C27	-8.60	1.26	1.42
24	L	414	DD6	C29-C27	-8.60	1.26	1.42
24	R	612	DD6	C29-C27	-8.59	1.26	1.42
24	X	401	DD6	C29-C27	-8.59	1.26	1.42
24	T	613	DD6	C29-C27	-8.58	1.26	1.42
24	F	406	DD6	C29-C27	-8.58	1.26	1.42
24	L	415	DD6	C29-C27	-8.58	1.26	1.42
24	B	841	DD6	C29-C27	-8.57	1.26	1.42
24	K	614	DD6	C29-C27	-8.57	1.26	1.42
24	W	416	DD6	C29-C27	-8.57	1.26	1.42
24	H	314	DD6	C29-C27	-8.56	1.26	1.42
24	G	612	DD6	C29-C27	-8.55	1.26	1.42
24	A	847	DD6	C29-C27	-8.54	1.26	1.42
24	N	613	DD6	C29-C27	-8.52	1.26	1.42
24	I	612	DD6	C29-C27	-8.51	1.26	1.42
24	S	611	DD6	C29-C27	-8.50	1.26	1.42
24	X	416	DD6	C29-C27	-8.50	1.26	1.42
24	Q	614	DD6	C29-C27	-8.49	1.26	1.42
24	N	612	DD6	C29-C27	-8.46	1.26	1.42
24	W	417	DD6	C29-C27	-8.42	1.26	1.42
24	A	858	DD6	C29-C27	-8.40	1.26	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	X	414	DD6	C29-C27	-8.39	1.26	1.42
24	O	316	DD6	C29-C27	-8.36	1.26	1.42
24	J	105	DD6	C29-C27	-8.35	1.26	1.42
24	V	615	DD6	C29-C27	-8.35	1.26	1.42
24	X	415	DD6	C29-C27	-8.35	1.26	1.42
24	K	615	DD6	C29-C27	-8.29	1.26	1.42
24	U	417	DD6	C29-C27	-8.23	1.26	1.42
22	N	606	CLA	C4B-NB	8.04	1.42	1.35
24	A	859	DD6	C30-C31	-7.92	1.25	1.42
24	P	612	DD6	C30-C31	-7.92	1.25	1.42
24	P	613	DD6	C30-C31	-7.90	1.25	1.42
24	N	612	DD6	C30-C31	-7.89	1.25	1.42
24	G	613	DD6	C30-C31	-7.85	1.26	1.42
22	O	315	CLA	C4B-NB	7.85	1.42	1.35
22	B	838	CLA	C4B-NB	7.84	1.42	1.35
24	Q	615	DD6	C30-C31	-7.84	1.26	1.42
24	L	414	DD6	C30-C31	-7.83	1.26	1.42
24	T	612	DD6	C30-C31	-7.83	1.26	1.42
24	O	317	DD6	C30-C31	-7.83	1.26	1.42
22	A	803	CLA	C4B-NB	7.82	1.42	1.35
22	V	601	CLA	C4B-NB	7.80	1.42	1.35
22	S	609	CLA	C4B-NB	7.79	1.42	1.35
24	I	613	DD6	C30-C31	-7.78	1.26	1.42
24	S	611	DD6	C30-C31	-7.78	1.26	1.42
24	X	416	DD6	C30-C31	-7.78	1.26	1.42
24	S	612	DD6	C30-C31	-7.78	1.26	1.42
24	L	415	DD6	C30-C31	-7.77	1.26	1.42
22	V	613	CLA	C4B-NB	7.77	1.42	1.35
24	R	613	DD6	C30-C31	-7.77	1.26	1.42
22	W	405	CLA	C4B-NB	7.76	1.42	1.35
24	G	612	DD6	C30-C31	-7.76	1.26	1.42
24	V	614	DD6	C30-C31	-7.74	1.26	1.42
22	R	610	CLA	C4B-NB	7.74	1.42	1.35
22	P	608	CLA	C4B-NB	7.74	1.42	1.35
24	U	416	DD6	C30-C31	-7.74	1.26	1.42
22	A	842	CLA	C4B-NB	7.74	1.42	1.35
22	B	819	CLA	C4B-NB	7.73	1.42	1.35
22	B	820	CLA	C4B-NB	7.73	1.42	1.35
24	A	847	DD6	C30-C31	-7.73	1.26	1.42
22	B	825	CLA	C4B-NB	7.72	1.42	1.35
22	H	311	CLA	C4B-NB	7.72	1.42	1.35
24	R	612	DD6	C30-C31	-7.72	1.26	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	X	404	CLA	C4B-NB	7.72	1.42	1.35
22	I	601	CLA	C4B-NB	7.71	1.42	1.35
24	F	406	DD6	C30-C31	-7.71	1.26	1.42
24	B	841	DD6	C30-C31	-7.71	1.26	1.42
22	Q	601	CLA	C4B-NB	7.71	1.42	1.35
24	I	612	DD6	C30-C31	-7.70	1.26	1.42
22	P	610	CLA	C4B-NB	7.69	1.42	1.35
23	B	840	PQN	C3-C2	7.69	1.49	1.35
22	P	609	CLA	C4B-NB	7.69	1.42	1.35
24	N	613	DD6	C30-C31	-7.69	1.26	1.42
22	X	419	CLA	C4B-NB	7.69	1.42	1.35
22	R	608	CLA	C4B-NB	7.67	1.42	1.35
22	U	403	CLA	C4B-NB	7.67	1.42	1.35
24	Q	614	DD6	C30-C31	-7.67	1.26	1.42
24	H	314	DD6	C30-C31	-7.67	1.26	1.42
24	L	413	DD6	C30-C31	-7.66	1.26	1.42
22	V	611	CLA	C4B-NB	7.66	1.42	1.35
24	K	615	DD6	C30-C31	-7.66	1.26	1.42
22	U	415	CLA	C4B-NB	7.65	1.42	1.35
24	W	418	DD6	C30-C31	-7.65	1.26	1.42
24	H	315	DD6	C30-C31	-7.65	1.26	1.42
22	Q	610	CLA	C4B-NB	7.64	1.42	1.35
22	A	806	CLA	C4B-NB	7.64	1.42	1.35
22	V	617	CLA	C4B-NB	7.63	1.42	1.35
22	P	603	CLA	C4B-NB	7.63	1.42	1.35
24	T	613	DD6	C30-C31	-7.63	1.26	1.42
22	F	405	CLA	C4B-NB	7.63	1.42	1.35
24	O	316	DD6	C30-C31	-7.63	1.26	1.42
22	Q	618	CLA	C4B-NB	7.62	1.42	1.35
22	W	415	CLA	C4B-NB	7.62	1.42	1.35
22	V	612	CLA	C4B-NB	7.62	1.42	1.35
24	X	414	DD6	C30-C31	-7.62	1.26	1.42
24	K	614	DD6	C30-C31	-7.61	1.26	1.42
22	S	610	CLA	C4B-NB	7.61	1.42	1.35
24	X	401	DD6	C30-C31	-7.61	1.26	1.42
23	A	843	PQN	C3-C2	7.61	1.49	1.35
24	J	105	DD6	C30-C31	-7.60	1.26	1.42
22	T	606	CLA	C4B-NB	7.60	1.42	1.35
22	V	610	CLA	C4B-NB	7.59	1.42	1.35
22	B	833	CLA	C4B-NB	7.59	1.42	1.35
24	W	416	DD6	C30-C31	-7.59	1.26	1.42
22	X	412	CLA	C4B-NB	7.59	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	T	610	CLA	C4B-NB	7.58	1.42	1.35
22	A	834	CLA	C4B-NB	7.58	1.42	1.35
22	W	414	CLA	C4B-NB	7.58	1.42	1.35
22	H	307	CLA	C4B-NB	7.58	1.42	1.35
22	T	605	CLA	C4B-NB	7.58	1.42	1.35
22	S	608	CLA	C4B-NB	7.58	1.42	1.35
22	H	309	CLA	C4B-NB	7.58	1.42	1.35
22	P	607	CLA	C4B-NB	7.57	1.42	1.35
22	R	615	CLA	C4B-NB	7.57	1.42	1.35
22	G	606	CLA	C4B-NB	7.56	1.42	1.35
22	S	606	CLA	C4B-NB	7.56	1.42	1.35
24	A	858	DD6	C30-C31	-7.56	1.26	1.42
22	K	610	CLA	C4B-NB	7.56	1.42	1.35
22	X	410	CLA	C4B-NB	7.56	1.42	1.35
22	F	403	CLA	C4B-NB	7.56	1.42	1.35
22	N	611	CLA	C4B-NB	7.56	1.42	1.35
22	A	820	CLA	C4B-NB	7.56	1.42	1.35
22	O	313	CLA	C4B-NB	7.56	1.41	1.35
22	H	313	CLA	C4B-NB	7.55	1.41	1.35
22	R	606	CLA	C4B-NB	7.55	1.41	1.35
22	R	607	CLA	C4B-NB	7.55	1.41	1.35
24	W	417	DD6	C30-C31	-7.55	1.26	1.42
22	R	611	CLA	C4B-NB	7.55	1.41	1.35
22	G	603	CLA	C4B-NB	7.55	1.41	1.35
22	A	824	CLA	C4B-NB	7.55	1.41	1.35
22	N	604	CLA	C4B-NB	7.55	1.41	1.35
22	B	803	CLA	C4B-NB	7.54	1.41	1.35
22	I	608	CLA	C4B-NB	7.54	1.41	1.35
22	A	804	CLA	C4B-NB	7.54	1.41	1.35
22	A	852	CLA	C4B-NB	7.54	1.41	1.35
22	T	603	CLA	C4B-NB	7.54	1.41	1.35
22	V	603	CLA	C4B-NB	7.53	1.41	1.35
22	B	806	CLA	C4B-NB	7.53	1.41	1.35
22	B	828	CLA	C4B-NB	7.53	1.41	1.35
22	Q	607	CLA	C4B-NB	7.53	1.41	1.35
22	I	606	CLA	C4B-NB	7.53	1.41	1.35
22	N	608	CLA	C4B-NB	7.52	1.41	1.35
22	O	307	CLA	C4B-NB	7.52	1.41	1.35
22	U	406	CLA	C4B-NB	7.52	1.41	1.35
24	V	615	DD6	C30-C31	-7.52	1.26	1.42
22	T	601	CLA	C4B-NB	7.51	1.41	1.35
22	I	603	CLA	C4B-NB	7.51	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	H	302	CLA	C4B-NB	7.51	1.41	1.35
22	R	609	CLA	C4B-NB	7.51	1.41	1.35
22	B	837	CLA	C4B-NB	7.51	1.41	1.35
22	V	602	CLA	C4B-NB	7.51	1.41	1.35
22	W	403	CLA	C4B-NB	7.51	1.41	1.35
22	B	821	CLA	C4B-NB	7.50	1.41	1.35
22	Q	605	CLA	C4B-NB	7.50	1.41	1.35
22	R	605	CLA	C4B-NB	7.50	1.41	1.35
22	L	409	CLA	C4B-NB	7.50	1.41	1.35
22	N	603	CLA	C4B-NB	7.50	1.41	1.35
22	B	817	CLA	C4B-NB	7.49	1.41	1.35
22	A	809	CLA	C4B-NB	7.49	1.41	1.35
22	B	826	CLA	C4B-NB	7.49	1.41	1.35
22	H	318	CLA	C4B-NB	7.49	1.41	1.35
22	Q	608	CLA	C4B-NB	7.49	1.41	1.35
22	A	836	CLA	C4B-NB	7.49	1.41	1.35
22	B	807	CLA	C4B-NB	7.48	1.41	1.35
22	K	604	CLA	C4B-NB	7.48	1.41	1.35
22	B	835	CLA	C4B-NB	7.48	1.41	1.35
22	V	604	CLA	C4B-NB	7.48	1.41	1.35
22	K	613	CLA	C4B-NB	7.48	1.41	1.35
22	A	829	CLA	C4B-NB	7.48	1.41	1.35
22	A	837	CLA	C4B-NB	7.48	1.41	1.35
24	X	415	DD6	C30-C31	-7.48	1.26	1.42
22	K	602	CLA	C4B-NB	7.48	1.41	1.35
22	W	406	CLA	C4B-NB	7.48	1.41	1.35
22	B	812	CLA	C4B-NB	7.48	1.41	1.35
22	B	831	CLA	C4B-NB	7.48	1.41	1.35
22	R	601	CLA	C4B-NB	7.47	1.41	1.35
22	R	604	CLA	C4B-NB	7.47	1.41	1.35
22	V	607	CLA	C4B-NB	7.47	1.41	1.35
22	X	417	CLA	C4B-NB	7.47	1.41	1.35
22	B	859	CLA	C4B-NB	7.47	1.41	1.35
22	S	607	CLA	C4B-NB	7.46	1.41	1.35
22	A	831	CLA	C4B-NB	7.46	1.41	1.35
22	G	611	CLA	C4B-NB	7.46	1.41	1.35
22	U	405	CLA	C4B-NB	7.46	1.41	1.35
22	L	417	CLA	C4B-NB	7.46	1.41	1.35
22	A	839	CLA	C4B-NB	7.46	1.41	1.35
22	A	814	CLA	C4B-NB	7.45	1.41	1.35
22	A	807	CLA	C4B-NB	7.45	1.41	1.35
22	R	602	CLA	C4B-NB	7.45	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	I	611	CLA	C4B-NB	7.45	1.41	1.35
22	S	601	CLA	C4B-NB	7.45	1.41	1.35
22	S	604	CLA	C4B-NB	7.45	1.41	1.35
22	S	615	CLA	C4B-NB	7.44	1.41	1.35
22	N	607	CLA	C4B-NB	7.44	1.41	1.35
22	B	815	CLA	C4B-NB	7.44	1.41	1.35
22	Q	606	CLA	C4B-NB	7.44	1.41	1.35
22	A	805	CLA	C4B-NB	7.44	1.41	1.35
22	I	605	CLA	C4B-NB	7.44	1.41	1.35
22	W	412	CLA	C4B-NB	7.44	1.41	1.35
22	B	814	CLA	C4B-NB	7.44	1.41	1.35
22	V	609	CLA	C4B-NB	7.43	1.41	1.35
22	B	836	CLA	C4B-NB	7.43	1.41	1.35
22	A	841	CLA	C4B-NB	7.43	1.41	1.35
22	U	420	CLA	C4B-NB	7.43	1.41	1.35
22	I	609	CLA	C4B-NB	7.43	1.41	1.35
22	W	419	CLA	C4B-NB	7.43	1.41	1.35
22	L	412	CLA	C4B-NB	7.43	1.41	1.35
22	T	608	CLA	C4B-NB	7.43	1.41	1.35
22	B	824	CLA	C4B-NB	7.42	1.41	1.35
22	F	404	CLA	C4B-NB	7.42	1.41	1.35
22	G	604	CLA	C4B-NB	7.42	1.41	1.35
22	H	312	CLA	C4B-NB	7.42	1.41	1.35
22	L	405	CLA	C4B-NB	7.42	1.41	1.35
22	X	413	CLA	C4B-NB	7.42	1.41	1.35
22	L	411	CLA	C4B-NB	7.42	1.41	1.35
22	U	414	CLA	C4B-NB	7.42	1.41	1.35
22	P	611	CLA	C4B-NB	7.41	1.41	1.35
22	U	413	CLA	C4B-NB	7.41	1.41	1.35
22	V	608	CLA	C4B-NB	7.41	1.41	1.35
22	G	609	CLA	C4B-NB	7.41	1.41	1.35
22	U	409	CLA	C4B-NB	7.41	1.41	1.35
22	Q	603	CLA	C4B-NB	7.41	1.41	1.35
22	U	410	CLA	C4B-NB	7.40	1.41	1.35
22	H	310	CLA	C4B-NB	7.40	1.41	1.35
22	A	823	CLA	C4B-NB	7.40	1.41	1.35
22	K	606	CLA	C4B-NB	7.40	1.41	1.35
22	K	611	CLA	C4B-NB	7.40	1.41	1.35
22	X	409	CLA	C4B-NB	7.39	1.41	1.35
22	I	604	CLA	C4B-NB	7.39	1.41	1.35
22	B	809	CLA	C4B-NB	7.39	1.41	1.35
22	B	808	CLA	C4B-NB	7.39	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	N	610	CLA	C4B-NB	7.39	1.41	1.35
22	Q	617	CLA	C4B-NB	7.39	1.41	1.35
22	S	603	CLA	C4B-NB	7.38	1.41	1.35
22	T	611	CLA	C4B-NB	7.38	1.41	1.35
22	A	830	CLA	C4B-NB	7.38	1.41	1.35
22	B	822	CLA	C4B-NB	7.38	1.41	1.35
22	O	305	CLA	C4B-NB	7.38	1.41	1.35
22	W	409	CLA	C4B-NB	7.38	1.41	1.35
22	B	810	CLA	C4B-NB	7.37	1.41	1.35
22	A	810	CLA	C4B-NB	7.37	1.41	1.35
22	U	401	CLA	C4B-NB	7.37	1.41	1.35
22	L	407	CLA	C4B-NB	7.37	1.41	1.35
22	B	816	CLA	C4B-NB	7.37	1.41	1.35
24	U	417	DD6	C30-C31	-7.37	1.27	1.42
22	P	604	CLA	C4B-NB	7.37	1.41	1.35
22	G	601	CLA	C4B-NB	7.36	1.41	1.35
22	P	606	CLA	C4B-NB	7.36	1.41	1.35
22	O	319	CLA	C4B-NB	7.36	1.41	1.35
22	B	805	CLA	C4B-NB	7.36	1.41	1.35
22	A	835	CLA	C4B-NB	7.36	1.41	1.35
22	B	823	CLA	C4B-NB	7.36	1.41	1.35
22	O	311	CLA	C4B-NB	7.36	1.41	1.35
22	I	607	CLA	C4B-NB	7.36	1.41	1.35
22	H	305	CLA	C4B-NB	7.35	1.41	1.35
22	W	410	CLA	C4B-NB	7.35	1.41	1.35
22	N	609	CLA	C4B-NB	7.35	1.41	1.35
22	B	811	CLA	C4B-NB	7.35	1.41	1.35
22	B	818	CLA	C4B-NB	7.35	1.41	1.35
22	U	411	CLA	C4B-NB	7.35	1.41	1.35
22	A	833	CLA	C4B-NB	7.35	1.41	1.35
22	B	804	CLA	C4B-NB	7.34	1.41	1.35
22	B	813	CLA	C4B-NB	7.34	1.41	1.35
22	W	413	CLA	C4B-NB	7.34	1.41	1.35
22	K	605	CLA	C4B-NB	7.34	1.41	1.35
22	H	306	CLA	C4B-NB	7.34	1.41	1.35
22	L	406	CLA	C4B-NB	7.34	1.41	1.35
22	O	308	CLA	C4B-NB	7.34	1.41	1.35
22	T	602	CLA	C4B-NB	7.33	1.41	1.35
22	X	402	CLA	C4B-NB	7.33	1.41	1.35
22	A	828	CLA	C4B-NB	7.33	1.41	1.35
22	A	818	CLA	C4B-NB	7.33	1.41	1.35
22	G	608	CLA	C4B-NB	7.33	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	L	410	CLA	C4B-NB	7.33	1.41	1.35
22	X	405	CLA	C4B-NB	7.33	1.41	1.35
22	A	813	CLA	C4B-NB	7.32	1.41	1.35
22	K	612	CLA	C4B-NB	7.32	1.41	1.35
22	L	403	CLA	C4B-NB	7.32	1.41	1.35
22	A	844	CLA	C4B-NB	7.32	1.41	1.35
22	X	403	CLA	C4B-NB	7.32	1.41	1.35
22	A	815	CLA	C4B-NB	7.32	1.41	1.35
22	U	412	CLA	C4B-NB	7.32	1.41	1.35
22	Q	611	CLA	C4B-NB	7.32	1.41	1.35
22	A	812	CLA	C4B-NB	7.32	1.41	1.35
22	S	614	CLA	C4B-NB	7.31	1.41	1.35
22	X	407	CLA	C4B-NB	7.31	1.41	1.35
22	A	822	CLA	C4B-NB	7.31	1.41	1.35
22	A	840	CLA	C4B-NB	7.31	1.41	1.35
22	W	411	CLA	C4B-NB	7.31	1.41	1.35
22	A	832	CLA	C4B-NB	7.31	1.41	1.35
22	H	303	CLA	C4B-NB	7.31	1.41	1.35
22	Q	609	CLA	C4B-NB	7.30	1.41	1.35
22	R	603	CLA	C4B-NB	7.29	1.41	1.35
22	A	811	CLA	C4B-NB	7.29	1.41	1.35
22	L	402	CLA	C4B-NB	7.29	1.41	1.35
22	A	821	CLA	C4B-NB	7.29	1.41	1.35
22	A	838	CLA	C4B-NB	7.28	1.41	1.35
22	T	604	CLA	C4B-NB	7.28	1.41	1.35
22	W	402	CLA	C4B-NB	7.28	1.41	1.35
22	O	309	CLA	C4B-NB	7.28	1.41	1.35
22	A	826	CLA	C4B-NB	7.27	1.41	1.35
22	G	610	CLA	C4B-NB	7.27	1.41	1.35
22	N	605	CLA	C4B-NB	7.27	1.41	1.35
22	X	411	CLA	C4B-NB	7.27	1.41	1.35
22	H	304	CLA	C4B-NB	7.27	1.41	1.35
22	I	610	CLA	C4B-NB	7.27	1.41	1.35
22	X	408	CLA	C4B-NB	7.27	1.41	1.35
22	J	102	CLA	C4B-NB	7.27	1.41	1.35
22	B	832	CLA	C4B-NB	7.27	1.41	1.35
22	U	404	CLA	C4B-NB	7.27	1.41	1.35
22	B	839	CLA	C4B-NB	7.26	1.41	1.35
22	L	404	CLA	C4B-NB	7.26	1.41	1.35
22	O	310	CLA	C4B-NB	7.26	1.41	1.35
22	W	404	CLA	C4B-NB	7.26	1.41	1.35
22	T	607	CLA	C4B-NB	7.25	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	T	609	CLA	C4B-NB	7.25	1.41	1.35
22	K	617	CLA	C4B-NB	7.24	1.41	1.35
22	A	825	CLA	C4B-NB	7.24	1.41	1.35
22	N	601	CLA	C4B-NB	7.24	1.41	1.35
22	K	609	CLA	C4B-NB	7.24	1.41	1.35
22	A	817	CLA	C4B-NB	7.24	1.41	1.35
22	O	314	CLA	C4B-NB	7.24	1.41	1.35
22	G	605	CLA	C4B-NB	7.24	1.41	1.35
22	I	602	CLA	C4B-NB	7.24	1.41	1.35
22	H	308	CLA	C4B-NB	7.24	1.41	1.35
22	P	605	CLA	C4B-NB	7.24	1.41	1.35
22	Q	612	CLA	C4B-NB	7.23	1.41	1.35
22	K	603	CLA	C4B-NB	7.22	1.41	1.35
22	A	827	CLA	C4B-NB	7.22	1.41	1.35
22	G	607	CLA	C4B-NB	7.22	1.41	1.35
22	B	827	CLA	C4B-NB	7.22	1.41	1.35
22	O	312	CLA	C4B-NB	7.22	1.41	1.35
22	Q	613	CLA	C4B-NB	7.21	1.41	1.35
22	Q	604	CLA	C4B-NB	7.20	1.41	1.35
22	N	602	CLA	C4B-NB	7.19	1.41	1.35
22	S	602	CLA	C4B-NB	7.18	1.41	1.35
22	B	834	CLA	C4B-NB	7.17	1.41	1.35
22	O	306	CLA	C4B-NB	7.16	1.41	1.35
22	A	808	CLA	C4B-NB	7.14	1.41	1.35
22	G	602	CLA	C4B-NB	7.10	1.41	1.35
22	P	602	CLA	C4B-NB	7.04	1.41	1.35
22	A	819	CLA	C4B-NB	6.98	1.41	1.35
22	S	605	CLA	C4B-NB	6.77	1.41	1.35
22	K	607	CLA	C4B-NB	6.35	1.40	1.35
22	K	608	CLA	C4B-NB	6.27	1.40	1.35
22	L	408	CLA	C4B-NB	6.27	1.40	1.35
22	B	830	CLA	C4B-NB	6.23	1.40	1.35
22	A	816	CLA	C4B-NB	6.19	1.40	1.35
22	B	829	CLA	C4B-NB	6.16	1.40	1.35
22	B	802	CLA	C4B-NB	6.10	1.40	1.35
22	A	801	CLA	C4B-NB	5.91	1.40	1.35
31	W	407	CHL	MG-ND	-5.84	1.94	2.05
31	X	406	CHL	MG-ND	-5.76	1.94	2.05
31	W	408	CHL	MG-ND	-5.74	1.94	2.05
31	U	407	CHL	MG-ND	-5.72	1.94	2.05
31	W	422	CHL	MG-ND	-5.71	1.94	2.05
31	V	605	CHL	MG-ND	-5.69	1.94	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	U	408	CHL	MG-ND	-5.66	1.94	2.05
31	V	606	CHL	MG-ND	-5.64	1.94	2.05
33	A	802	CL0	C1D-ND	5.19	1.44	1.37
31	U	407	CHL	MG-NA	-5.01	1.94	2.06
31	V	605	CHL	MG-NA	-4.91	1.94	2.06
31	X	406	CHL	MG-NA	-4.91	1.94	2.06
23	B	840	PQN	C10-C5	4.89	1.48	1.40
31	U	408	CHL	MG-NA	-4.81	1.94	2.06
31	V	606	CHL	MG-NA	-4.81	1.94	2.06
23	A	843	PQN	C10-C5	4.80	1.48	1.40
31	W	407	CHL	MG-NA	-4.69	1.95	2.06
31	W	422	CHL	MG-NA	-4.64	1.95	2.06
31	W	408	CHL	MG-NA	-4.56	1.95	2.06
33	A	802	CL0	C3C-C2C	4.38	1.46	1.36
33	A	802	CL0	O2D-CGD	4.32	1.43	1.33
25	F	401	DGD	O1G-C1A	4.25	1.45	1.33
22	I	611	CLA	C1D-ND	4.21	1.43	1.37
33	A	802	CL0	O2A-CGA	4.20	1.45	1.33
22	W	415	CLA	C1D-ND	4.20	1.42	1.37
33	A	802	CL0	CHC-C1C	4.18	1.45	1.35
33	A	802	CL0	C3B-C2B	4.14	1.46	1.40
22	P	603	CLA	C1D-ND	4.11	1.42	1.37
22	B	820	CLA	C1D-ND	4.10	1.42	1.37
22	A	803	CLA	C1D-ND	4.10	1.42	1.37
22	A	839	CLA	C1D-ND	4.05	1.42	1.37
22	A	838	CLA	C1D-ND	4.04	1.42	1.37
22	P	611	CLA	C1D-ND	4.01	1.42	1.37
25	O	304	DGD	O1G-C1A	4.01	1.45	1.33
22	P	608	CLA	C1D-ND	4.00	1.42	1.37
22	B	819	CLA	C1D-ND	3.99	1.42	1.37
22	B	826	CLA	C1D-ND	3.99	1.42	1.37
22	X	417	CLA	C1D-ND	3.98	1.42	1.37
22	V	601	CLA	C1D-ND	3.98	1.42	1.37
25	B	847	DGD	O1G-C1A	3.98	1.45	1.33
22	P	610	CLA	C1D-ND	3.97	1.42	1.37
22	R	610	CLA	C1D-ND	3.97	1.42	1.37
22	V	613	CLA	C1D-ND	3.96	1.42	1.37
22	R	606	CLA	C1D-ND	3.96	1.42	1.37
22	X	409	CLA	C1D-ND	3.94	1.42	1.37
22	U	404	CLA	C1D-ND	3.94	1.42	1.37
22	Q	618	CLA	C1D-ND	3.94	1.42	1.37
22	I	603	CLA	C1D-ND	3.94	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	R	611	CLA	C1D-ND	3.94	1.42	1.37
25	F	401	DGD	O2G-C1B	3.93	1.45	1.34
22	B	859	CLA	C1D-ND	3.93	1.42	1.37
22	I	609	CLA	C1D-ND	3.93	1.42	1.37
22	Q	608	CLA	C1D-ND	3.93	1.42	1.37
22	S	608	CLA	C1D-ND	3.93	1.42	1.37
22	A	840	CLA	C1D-ND	3.93	1.42	1.37
22	P	604	CLA	C1D-ND	3.93	1.42	1.37
22	T	607	CLA	C1D-ND	3.93	1.42	1.37
22	I	601	CLA	C1D-ND	3.93	1.42	1.37
22	S	610	CLA	C1D-ND	3.92	1.42	1.37
22	B	804	CLA	C1D-ND	3.92	1.42	1.37
22	U	414	CLA	C1D-ND	3.92	1.42	1.37
22	V	604	CLA	C1D-ND	3.92	1.42	1.37
22	V	609	CLA	C1D-ND	3.92	1.42	1.37
22	R	607	CLA	C1D-ND	3.91	1.42	1.37
22	S	602	CLA	C1D-ND	3.91	1.42	1.37
22	V	607	CLA	C1D-ND	3.91	1.42	1.37
22	B	816	CLA	C1D-ND	3.91	1.42	1.37
22	R	605	CLA	C1D-ND	3.91	1.42	1.37
22	R	615	CLA	C1D-ND	3.91	1.42	1.37
22	X	404	CLA	C1D-ND	3.91	1.42	1.37
22	O	315	CLA	C1D-ND	3.91	1.42	1.37
22	Q	613	CLA	C1D-ND	3.91	1.42	1.37
22	B	836	CLA	C1D-ND	3.91	1.42	1.37
22	H	302	CLA	C1D-ND	3.91	1.42	1.37
22	N	602	CLA	C1D-ND	3.91	1.42	1.37
22	N	603	CLA	C1D-ND	3.90	1.42	1.37
22	W	414	CLA	C1D-ND	3.90	1.42	1.37
22	H	307	CLA	C1D-ND	3.90	1.42	1.37
22	H	311	CLA	C1D-ND	3.90	1.42	1.37
22	A	829	CLA	C1D-ND	3.90	1.42	1.37
22	A	826	CLA	C1D-ND	3.90	1.42	1.37
22	B	806	CLA	C1D-ND	3.90	1.42	1.37
22	U	405	CLA	C1D-ND	3.90	1.42	1.37
22	G	604	CLA	C1D-ND	3.90	1.42	1.37
22	N	609	CLA	C1D-ND	3.89	1.42	1.37
22	A	842	CLA	C1D-ND	3.89	1.42	1.37
22	S	609	CLA	C1D-ND	3.89	1.42	1.37
22	G	602	CLA	C1D-ND	3.89	1.42	1.37
22	A	815	CLA	C1D-ND	3.89	1.42	1.37
22	H	313	CLA	C1D-ND	3.89	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	L	417	CLA	C1D-ND	3.89	1.42	1.37
22	B	821	CLA	C1D-ND	3.89	1.42	1.37
22	K	611	CLA	C1D-ND	3.88	1.42	1.37
22	R	609	CLA	C1D-ND	3.88	1.42	1.37
22	V	603	CLA	C1D-ND	3.88	1.42	1.37
22	O	319	CLA	C1D-ND	3.88	1.42	1.37
22	R	603	CLA	C1D-ND	3.88	1.42	1.37
22	X	412	CLA	C1D-ND	3.88	1.42	1.37
22	T	611	CLA	C1D-ND	3.87	1.42	1.37
22	X	408	CLA	C1D-ND	3.87	1.42	1.37
22	L	405	CLA	C1D-ND	3.87	1.42	1.37
22	R	608	CLA	C1D-ND	3.87	1.42	1.37
22	V	617	CLA	C1D-ND	3.87	1.42	1.37
22	W	419	CLA	C1D-ND	3.87	1.42	1.37
22	S	606	CLA	C1D-ND	3.87	1.42	1.37
22	K	604	CLA	C1D-ND	3.87	1.42	1.37
22	N	606	CLA	C1D-ND	3.87	1.42	1.37
22	U	413	CLA	C1D-ND	3.87	1.42	1.37
22	A	841	CLA	C1D-ND	3.87	1.42	1.37
22	U	403	CLA	C1D-ND	3.87	1.42	1.37
22	A	844	CLA	C1D-ND	3.86	1.42	1.37
22	K	613	CLA	C1D-ND	3.86	1.42	1.37
22	V	602	CLA	C1D-ND	3.86	1.42	1.37
22	I	602	CLA	C1D-ND	3.86	1.42	1.37
22	U	415	CLA	C1D-ND	3.86	1.42	1.37
22	V	611	CLA	C1D-ND	3.86	1.42	1.37
22	A	824	CLA	C1D-ND	3.86	1.42	1.37
22	V	612	CLA	C1D-ND	3.86	1.42	1.37
22	B	834	CLA	C1D-ND	3.86	1.42	1.37
22	N	610	CLA	C1D-ND	3.86	1.42	1.37
22	U	412	CLA	C1D-ND	3.86	1.42	1.37
22	X	411	CLA	C1D-ND	3.85	1.42	1.37
22	W	403	CLA	C1D-ND	3.85	1.42	1.37
22	H	318	CLA	C1D-ND	3.85	1.42	1.37
22	N	601	CLA	C1D-ND	3.85	1.42	1.37
22	R	602	CLA	C1D-ND	3.85	1.42	1.37
22	X	419	CLA	C1D-ND	3.85	1.42	1.37
22	H	303	CLA	C1D-ND	3.85	1.42	1.37
22	X	407	CLA	C1D-ND	3.85	1.42	1.37
22	B	817	CLA	C1D-ND	3.85	1.42	1.37
22	N	611	CLA	C1D-ND	3.84	1.42	1.37
22	S	607	CLA	C1D-ND	3.84	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	F	405	CLA	C1D-ND	3.84	1.42	1.37
22	V	610	CLA	C1D-ND	3.84	1.42	1.37
22	K	612	CLA	C1D-ND	3.84	1.42	1.37
22	X	403	CLA	C1D-ND	3.84	1.42	1.37
22	U	411	CLA	C1D-ND	3.84	1.42	1.37
22	T	606	CLA	C1D-ND	3.84	1.42	1.37
22	U	401	CLA	C1D-ND	3.84	1.42	1.37
22	A	833	CLA	C1D-ND	3.84	1.42	1.37
22	B	825	CLA	C1D-ND	3.84	1.42	1.37
22	B	815	CLA	C1D-ND	3.84	1.42	1.37
22	R	601	CLA	C1D-ND	3.84	1.42	1.37
22	X	413	CLA	C1D-ND	3.84	1.42	1.37
22	X	410	CLA	C1D-ND	3.84	1.42	1.37
22	G	609	CLA	C1D-ND	3.83	1.42	1.37
22	G	611	CLA	C1D-ND	3.83	1.42	1.37
22	T	602	CLA	C1D-ND	3.83	1.42	1.37
22	H	304	CLA	C1D-ND	3.83	1.42	1.37
22	W	412	CLA	C1D-ND	3.83	1.42	1.37
22	A	827	CLA	C1D-ND	3.83	1.42	1.37
22	B	832	CLA	C1D-ND	3.83	1.42	1.37
22	H	309	CLA	C1D-ND	3.83	1.42	1.37
22	A	807	CLA	C1D-ND	3.83	1.42	1.37
22	O	313	CLA	C1D-ND	3.83	1.42	1.37
22	S	614	CLA	C1D-ND	3.83	1.42	1.37
22	F	403	CLA	C1D-ND	3.83	1.42	1.37
22	A	813	CLA	C1D-ND	3.83	1.42	1.37
22	L	409	CLA	C1D-ND	3.82	1.42	1.37
22	A	817	CLA	C1D-ND	3.82	1.42	1.37
22	V	608	CLA	C1D-ND	3.82	1.42	1.37
22	B	812	CLA	C1D-ND	3.82	1.42	1.37
22	W	404	CLA	C1D-ND	3.82	1.42	1.37
22	B	808	CLA	C1D-ND	3.82	1.42	1.37
22	N	604	CLA	C1D-ND	3.82	1.42	1.37
22	A	831	CLA	C1D-ND	3.82	1.42	1.37
22	H	308	CLA	C1D-ND	3.82	1.42	1.37
22	Q	611	CLA	C1D-ND	3.82	1.42	1.37
22	U	406	CLA	C1D-ND	3.82	1.42	1.37
22	S	601	CLA	C1D-ND	3.82	1.42	1.37
22	R	604	CLA	C1D-ND	3.81	1.42	1.37
22	B	828	CLA	C1D-ND	3.81	1.42	1.37
22	B	835	CLA	C1D-ND	3.81	1.42	1.37
22	H	305	CLA	C1D-ND	3.81	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	G	601	CLA	C1D-ND	3.81	1.42	1.37
22	A	818	CLA	C1D-ND	3.81	1.42	1.37
22	Q	601	CLA	C1D-ND	3.81	1.42	1.37
22	T	610	CLA	C1D-ND	3.81	1.42	1.37
22	N	607	CLA	C1D-ND	3.81	1.42	1.37
22	O	308	CLA	C1D-ND	3.81	1.42	1.37
22	X	405	CLA	C1D-ND	3.81	1.42	1.37
22	A	808	CLA	C1D-ND	3.81	1.42	1.37
22	B	837	CLA	C1D-ND	3.81	1.42	1.37
22	B	809	CLA	C1D-ND	3.80	1.42	1.37
22	G	603	CLA	C1D-ND	3.80	1.42	1.37
22	B	839	CLA	C1D-ND	3.80	1.42	1.37
22	O	312	CLA	C1D-ND	3.80	1.42	1.37
22	B	818	CLA	C1D-ND	3.80	1.42	1.37
22	A	832	CLA	C1D-ND	3.80	1.42	1.37
22	I	610	CLA	C1D-ND	3.80	1.42	1.37
22	B	831	CLA	C1D-ND	3.80	1.42	1.37
22	L	410	CLA	C1D-ND	3.80	1.42	1.37
22	O	314	CLA	C1D-ND	3.80	1.42	1.37
22	T	609	CLA	C1D-ND	3.80	1.42	1.37
22	I	604	CLA	C1D-ND	3.79	1.42	1.37
22	N	605	CLA	C1D-ND	3.79	1.42	1.37
22	P	607	CLA	C1D-ND	3.79	1.42	1.37
22	A	837	CLA	C1D-ND	3.79	1.42	1.37
22	A	809	CLA	C1D-ND	3.79	1.42	1.37
22	I	606	CLA	C1D-ND	3.79	1.42	1.37
22	A	828	CLA	C1D-ND	3.79	1.42	1.37
22	G	606	CLA	C1D-ND	3.79	1.42	1.37
22	K	603	CLA	C1D-ND	3.79	1.42	1.37
22	Q	605	CLA	C1D-ND	3.79	1.42	1.37
22	P	605	CLA	C1D-ND	3.79	1.42	1.37
22	Q	603	CLA	C1D-ND	3.79	1.42	1.37
22	L	407	CLA	C1D-ND	3.79	1.42	1.37
22	A	804	CLA	C1D-ND	3.79	1.42	1.37
22	T	605	CLA	C1D-ND	3.78	1.42	1.37
22	W	405	CLA	C1D-ND	3.78	1.42	1.37
22	Q	606	CLA	C1D-ND	3.78	1.42	1.37
22	O	307	CLA	C1D-ND	3.78	1.42	1.37
22	K	609	CLA	C1D-ND	3.78	1.42	1.37
22	L	404	CLA	C1D-ND	3.78	1.42	1.37
22	B	805	CLA	C1D-ND	3.78	1.42	1.37
22	L	412	CLA	C1D-ND	3.78	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	813	CLA	C1D-ND	3.78	1.42	1.37
22	T	604	CLA	C1D-ND	3.78	1.42	1.37
22	B	838	CLA	C1D-ND	3.78	1.42	1.37
22	S	615	CLA	C1D-ND	3.78	1.42	1.37
22	J	102	CLA	C1D-ND	3.78	1.42	1.37
22	U	420	CLA	C1D-ND	3.78	1.42	1.37
22	A	825	CLA	C1D-ND	3.78	1.42	1.37
22	Q	617	CLA	C1D-ND	3.77	1.42	1.37
25	O	304	DGD	O2G-C1B	3.77	1.44	1.34
22	Q	607	CLA	C1D-ND	3.77	1.42	1.37
22	A	835	CLA	C1D-ND	3.77	1.42	1.37
22	B	803	CLA	C1D-ND	3.77	1.42	1.37
22	Q	604	CLA	C1D-ND	3.77	1.42	1.37
22	G	607	CLA	C1D-ND	3.77	1.42	1.37
22	B	822	CLA	C1D-ND	3.77	1.42	1.37
22	W	411	CLA	C1D-ND	3.77	1.42	1.37
22	L	411	CLA	C1D-ND	3.77	1.42	1.37
22	P	609	CLA	C1D-ND	3.77	1.42	1.37
22	S	604	CLA	C1D-ND	3.77	1.42	1.37
22	W	410	CLA	C1D-ND	3.77	1.42	1.37
22	W	413	CLA	C1D-ND	3.77	1.42	1.37
22	K	606	CLA	C1D-ND	3.77	1.42	1.37
22	K	605	CLA	C1D-ND	3.76	1.42	1.37
22	T	603	CLA	C1D-ND	3.76	1.42	1.37
22	X	402	CLA	C1D-ND	3.76	1.42	1.37
22	H	310	CLA	C1D-ND	3.76	1.42	1.37
22	A	806	CLA	C1D-ND	3.76	1.42	1.37
22	U	410	CLA	C1D-ND	3.76	1.42	1.37
22	B	827	CLA	C1D-ND	3.76	1.42	1.37
22	Q	610	CLA	C1D-ND	3.76	1.42	1.37
22	I	607	CLA	C1D-ND	3.76	1.42	1.37
22	A	823	CLA	C1D-ND	3.75	1.42	1.37
33	A	802	CL0	CHD-C1D	3.75	1.45	1.38
22	B	824	CLA	C1D-ND	3.75	1.42	1.37
22	H	306	CLA	C1D-ND	3.75	1.42	1.37
22	B	833	CLA	C1D-ND	3.75	1.42	1.37
22	O	311	CLA	C1D-ND	3.75	1.42	1.37
22	W	406	CLA	C1D-ND	3.75	1.42	1.37
22	T	608	CLA	C1D-ND	3.74	1.42	1.37
22	K	602	CLA	C1D-ND	3.74	1.42	1.37
22	K	617	CLA	C1D-ND	3.74	1.42	1.37
22	A	836	CLA	C1D-ND	3.74	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	W	402	CLA	C1D-ND	3.74	1.42	1.37
22	O	310	CLA	C1D-ND	3.74	1.42	1.37
22	F	404	CLA	C1D-ND	3.74	1.42	1.37
22	K	610	CLA	C1D-ND	3.74	1.42	1.37
22	L	406	CLA	C1D-ND	3.73	1.42	1.37
22	B	823	CLA	C1D-ND	3.73	1.42	1.37
22	O	306	CLA	C1D-ND	3.73	1.42	1.37
22	O	309	CLA	C1D-ND	3.73	1.42	1.37
22	H	312	CLA	C1D-ND	3.73	1.42	1.37
22	L	403	CLA	C1D-ND	3.73	1.42	1.37
22	S	603	CLA	C1D-ND	3.73	1.42	1.37
22	U	409	CLA	C1D-ND	3.72	1.42	1.37
22	B	811	CLA	C1D-ND	3.72	1.42	1.37
22	A	810	CLA	C1D-ND	3.72	1.42	1.37
22	A	812	CLA	C1D-ND	3.72	1.42	1.37
22	A	852	CLA	C1D-ND	3.72	1.42	1.37
22	G	610	CLA	C1D-ND	3.72	1.42	1.37
22	N	608	CLA	C1D-ND	3.72	1.42	1.37
22	A	834	CLA	C1D-ND	3.72	1.42	1.37
22	A	811	CLA	C1D-ND	3.71	1.42	1.37
22	Q	609	CLA	C1D-ND	3.71	1.42	1.37
22	A	830	CLA	C1D-ND	3.71	1.42	1.37
22	L	402	CLA	C1D-ND	3.70	1.42	1.37
22	G	608	CLA	C1D-ND	3.70	1.42	1.37
22	A	805	CLA	C1D-ND	3.70	1.42	1.37
22	B	807	CLA	C1D-ND	3.70	1.42	1.37
22	A	814	CLA	C1D-ND	3.69	1.42	1.37
22	I	605	CLA	C1D-ND	3.69	1.42	1.37
25	B	847	DGD	O2G-C1B	3.69	1.44	1.34
22	A	822	CLA	C1D-ND	3.68	1.42	1.37
22	A	821	CLA	C1D-ND	3.68	1.42	1.37
22	G	605	CLA	C1D-ND	3.68	1.42	1.37
22	B	810	CLA	C1D-ND	3.67	1.42	1.37
22	A	820	CLA	C1D-ND	3.67	1.42	1.37
22	Q	612	CLA	C1D-ND	3.66	1.42	1.37
22	L	408	CLA	C4D-ND	-3.66	1.32	1.37
22	B	814	CLA	C1D-ND	3.66	1.42	1.37
22	T	601	CLA	C1D-ND	3.66	1.42	1.37
31	X	406	CHL	C1D-ND	3.65	1.42	1.37
22	O	305	CLA	C1D-ND	3.64	1.42	1.37
22	S	605	CLA	C1D-ND	3.62	1.42	1.37
22	P	602	CLA	C1D-ND	3.59	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	K	608	CLA	C4D-ND	-3.59	1.32	1.37
22	B	830	CLA	C4D-ND	-3.58	1.32	1.37
22	W	409	CLA	C1D-ND	3.57	1.42	1.37
22	A	801	CLA	C4D-ND	-3.57	1.32	1.37
31	W	407	CHL	C1D-ND	3.56	1.42	1.37
22	P	606	CLA	C1D-ND	3.55	1.42	1.37
22	I	608	CLA	C1D-ND	3.53	1.42	1.37
31	V	606	CHL	C1D-ND	3.53	1.42	1.37
31	V	605	CHL	C1D-ND	3.52	1.42	1.37
22	A	819	CLA	C4D-ND	-3.51	1.32	1.37
31	U	408	CHL	C1D-ND	3.50	1.42	1.37
22	A	819	CLA	C1D-ND	3.49	1.42	1.37
31	W	422	CHL	C1D-ND	3.48	1.42	1.37
22	B	802	CLA	C4D-ND	-3.46	1.32	1.37
31	U	407	CHL	C1D-ND	3.45	1.42	1.37
31	W	408	CHL	C1D-ND	3.42	1.42	1.37
22	B	829	CLA	C4D-ND	-3.41	1.33	1.37
22	A	816	CLA	C1D-ND	3.40	1.42	1.37
22	A	816	CLA	C4D-ND	-3.37	1.33	1.37
22	S	605	CLA	C4D-ND	-3.35	1.33	1.37
22	L	408	CLA	CHC-C1C	3.34	1.43	1.35
22	A	803	CLA	CHC-C1C	3.33	1.43	1.35
22	P	607	CLA	CHC-C1C	3.33	1.43	1.35
22	A	839	CLA	CHC-C1C	3.32	1.43	1.35
22	B	813	CLA	CHC-C1C	3.26	1.43	1.35
22	A	819	CLA	CHC-C1C	3.26	1.43	1.35
22	I	607	CLA	CHC-C1C	3.24	1.43	1.35
22	R	604	CLA	CHC-C1C	3.24	1.43	1.35
22	S	607	CLA	CHC-C1C	3.23	1.43	1.35
22	H	312	CLA	CHC-C1C	3.22	1.43	1.35
22	B	814	CLA	CHC-C1C	3.22	1.43	1.35
22	S	606	CLA	CHC-C1C	3.21	1.43	1.35
22	P	611	CLA	CHC-C1C	3.21	1.43	1.35
22	B	822	CLA	CHC-C1C	3.20	1.43	1.35
22	N	607	CLA	CHC-C1C	3.20	1.43	1.35
22	B	825	CLA	CHC-C1C	3.20	1.43	1.35
22	V	609	CLA	CHC-C1C	3.19	1.43	1.35
22	Q	607	CLA	CHC-C1C	3.19	1.43	1.35
22	S	608	CLA	CHC-C1C	3.19	1.43	1.35
22	K	607	CLA	C4D-ND	-3.19	1.33	1.37
22	T	611	CLA	CHC-C1C	3.19	1.43	1.35
22	H	308	CLA	CHC-C1C	3.19	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	O	309	CLA	CHC-C1C	3.19	1.43	1.35
22	H	309	CLA	CHC-C1C	3.18	1.43	1.35
22	B	859	CLA	CHC-C1C	3.18	1.43	1.35
22	B	820	CLA	CHC-C1C	3.18	1.43	1.35
22	V	611	CLA	CHC-C1C	3.18	1.43	1.35
22	B	812	CLA	CHC-C1C	3.18	1.43	1.35
22	G	609	CLA	CHC-C1C	3.18	1.43	1.35
22	A	806	CLA	CHC-C1C	3.18	1.43	1.35
22	P	604	CLA	CHC-C1C	3.17	1.43	1.35
22	A	811	CLA	CHC-C1C	3.17	1.43	1.35
22	N	606	CLA	CHC-C1C	3.17	1.43	1.35
22	U	405	CLA	CHC-C1C	3.17	1.43	1.35
22	W	415	CLA	CHC-C1C	3.17	1.43	1.35
22	R	606	CLA	CHC-C1C	3.17	1.43	1.35
22	I	608	CLA	CHC-C1C	3.17	1.43	1.35
22	V	613	CLA	CHC-C1C	3.16	1.43	1.35
22	X	411	CLA	CHC-C1C	3.16	1.43	1.35
22	L	412	CLA	CHC-C1C	3.16	1.43	1.35
22	H	311	CLA	CHC-C1C	3.16	1.43	1.35
22	T	602	CLA	CHC-C1C	3.16	1.43	1.35
22	T	607	CLA	CHC-C1C	3.16	1.43	1.35
22	R	608	CLA	CHC-C1C	3.16	1.43	1.35
22	V	607	CLA	CHC-C1C	3.16	1.43	1.35
22	I	611	CLA	CHC-C1C	3.16	1.43	1.35
22	R	605	CLA	CHC-C1C	3.16	1.43	1.35
22	R	611	CLA	CHC-C1C	3.16	1.43	1.35
22	K	607	CLA	C1D-ND	3.16	1.41	1.37
22	U	409	CLA	CHC-C1C	3.16	1.43	1.35
22	Q	601	CLA	CHC-C1C	3.16	1.43	1.35
22	Q	618	CLA	CHC-C1C	3.16	1.43	1.35
22	N	609	CLA	CHC-C1C	3.16	1.43	1.35
22	W	406	CLA	CHC-C1C	3.16	1.43	1.35
22	O	311	CLA	CHC-C1C	3.16	1.43	1.35
22	W	403	CLA	CHC-C1C	3.16	1.43	1.35
22	A	830	CLA	CHC-C1C	3.16	1.43	1.35
22	L	409	CLA	CHC-C1C	3.16	1.43	1.35
22	R	602	CLA	CHC-C1C	3.16	1.43	1.35
22	V	602	CLA	CHC-C1C	3.16	1.43	1.35
22	A	829	CLA	CHC-C1C	3.16	1.43	1.35
22	B	803	CLA	CHC-C1C	3.16	1.43	1.35
22	L	403	CLA	CHC-C1C	3.16	1.43	1.35
22	R	601	CLA	CHC-C1C	3.16	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	A	834	CLA	CHC-C1C	3.15	1.43	1.35
22	N	604	CLA	CHC-C1C	3.15	1.43	1.35
22	A	828	CLA	CHC-C1C	3.15	1.43	1.35
22	O	315	CLA	CHC-C1C	3.15	1.43	1.35
22	V	604	CLA	CHC-C1C	3.15	1.43	1.35
22	X	409	CLA	CHC-C1C	3.15	1.43	1.35
22	X	413	CLA	CHC-C1C	3.15	1.43	1.35
22	B	835	CLA	CHC-C1C	3.15	1.43	1.35
22	A	804	CLA	CHC-C1C	3.15	1.43	1.35
22	P	603	CLA	CHC-C1C	3.15	1.43	1.35
22	A	837	CLA	CHC-C1C	3.15	1.43	1.35
22	S	604	CLA	CHC-C1C	3.15	1.43	1.35
22	U	410	CLA	CHC-C1C	3.15	1.43	1.35
22	U	406	CLA	CHC-C1C	3.15	1.43	1.35
22	B	815	CLA	CHC-C1C	3.15	1.43	1.35
22	H	318	CLA	CHC-C1C	3.15	1.43	1.35
22	B	807	CLA	CHC-C1C	3.15	1.43	1.35
22	O	306	CLA	CHC-C1C	3.15	1.43	1.35
22	U	420	CLA	CHC-C1C	3.15	1.43	1.35
22	Q	604	CLA	CHC-C1C	3.15	1.43	1.35
22	B	816	CLA	CHC-C1C	3.15	1.43	1.35
22	B	833	CLA	CHC-C1C	3.15	1.43	1.35
22	G	610	CLA	CHC-C1C	3.15	1.43	1.35
22	V	601	CLA	CHC-C1C	3.15	1.43	1.35
22	K	610	CLA	CHC-C1C	3.15	1.43	1.35
22	P	610	CLA	CHC-C1C	3.15	1.43	1.35
22	N	605	CLA	CHC-C1C	3.14	1.43	1.35
22	W	413	CLA	CHC-C1C	3.14	1.43	1.35
22	A	807	CLA	CHC-C1C	3.14	1.43	1.35
22	A	827	CLA	CHC-C1C	3.14	1.43	1.35
22	B	818	CLA	CHC-C1C	3.14	1.43	1.35
22	L	405	CLA	CHC-C1C	3.14	1.43	1.35
22	O	308	CLA	CHC-C1C	3.14	1.43	1.35
22	L	406	CLA	CHC-C1C	3.14	1.43	1.35
22	V	610	CLA	CHC-C1C	3.14	1.43	1.35
22	N	602	CLA	CHC-C1C	3.14	1.43	1.35
22	R	603	CLA	CHC-C1C	3.14	1.43	1.35
22	A	852	CLA	CHC-C1C	3.14	1.43	1.35
22	B	827	CLA	CHC-C1C	3.14	1.43	1.35
22	U	401	CLA	CHC-C1C	3.14	1.43	1.35
22	B	831	CLA	CHC-C1C	3.14	1.43	1.35
22	O	314	CLA	CHC-C1C	3.14	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	824	CLA	CHC-C1C	3.14	1.43	1.35
22	K	603	CLA	CHC-C1C	3.14	1.43	1.35
22	Q	610	CLA	CHC-C1C	3.14	1.43	1.35
22	V	612	CLA	CHC-C1C	3.14	1.43	1.35
22	I	602	CLA	CHC-C1C	3.14	1.43	1.35
22	A	826	CLA	CHC-C1C	3.14	1.43	1.35
22	G	602	CLA	CHC-C1C	3.14	1.43	1.35
22	A	832	CLA	CHC-C1C	3.14	1.43	1.35
22	K	611	CLA	CHC-C1C	3.13	1.43	1.35
22	B	839	CLA	CHC-C1C	3.13	1.43	1.35
22	P	605	CLA	CHC-C1C	3.13	1.43	1.35
22	A	810	CLA	CHC-C1C	3.13	1.43	1.35
22	Q	609	CLA	CHC-C1C	3.13	1.43	1.35
22	T	609	CLA	CHC-C1C	3.13	1.43	1.35
22	X	407	CLA	CHC-C1C	3.13	1.43	1.35
22	A	817	CLA	CHC-C1C	3.13	1.43	1.35
22	R	609	CLA	CHC-C1C	3.13	1.43	1.35
22	G	601	CLA	CHC-C1C	3.13	1.43	1.35
22	W	410	CLA	CHC-C1C	3.13	1.43	1.35
22	T	604	CLA	CHC-C1C	3.13	1.43	1.35
22	V	603	CLA	CHC-C1C	3.13	1.43	1.35
22	A	814	CLA	CHC-C1C	3.13	1.43	1.35
22	V	617	CLA	CHC-C1C	3.13	1.43	1.35
22	L	410	CLA	CHC-C1C	3.13	1.43	1.35
22	K	617	CLA	CHC-C1C	3.13	1.43	1.35
22	A	809	CLA	CHC-C1C	3.13	1.43	1.35
22	K	606	CLA	CHC-C1C	3.13	1.43	1.35
22	B	808	CLA	CHC-C1C	3.13	1.43	1.35
22	F	405	CLA	CHC-C1C	3.13	1.43	1.35
22	I	606	CLA	CHC-C1C	3.13	1.43	1.35
22	P	602	CLA	CHC-C1C	3.13	1.43	1.35
22	T	605	CLA	CHC-C1C	3.13	1.43	1.35
22	H	313	CLA	CHC-C1C	3.13	1.43	1.35
22	A	823	CLA	CHC-C1C	3.13	1.43	1.35
22	Q	603	CLA	CHC-C1C	3.13	1.43	1.35
22	U	415	CLA	CHC-C1C	3.13	1.43	1.35
22	S	614	CLA	CHC-C1C	3.13	1.43	1.35
22	W	412	CLA	CHC-C1C	3.13	1.43	1.35
22	T	601	CLA	CHC-C1C	3.12	1.43	1.35
22	I	610	CLA	CHC-C1C	3.12	1.43	1.35
22	A	820	CLA	CHC-C1C	3.12	1.43	1.35
22	A	831	CLA	CHC-C1C	3.12	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	828	CLA	CHC-C1C	3.12	1.43	1.35
22	W	411	CLA	CHC-C1C	3.12	1.43	1.35
22	H	306	CLA	CHC-C1C	3.12	1.43	1.35
22	L	402	CLA	CHC-C1C	3.12	1.43	1.35
22	U	414	CLA	CHC-C1C	3.12	1.43	1.35
22	H	302	CLA	CHC-C1C	3.12	1.43	1.35
22	X	405	CLA	CHC-C1C	3.12	1.43	1.35
22	X	408	CLA	CHC-C1C	3.12	1.43	1.35
22	B	829	CLA	C1D-ND	3.12	1.41	1.37
22	Q	617	CLA	CHC-C1C	3.12	1.43	1.35
22	S	603	CLA	CHC-C1C	3.12	1.43	1.35
22	H	303	CLA	CHC-C1C	3.12	1.43	1.35
22	W	402	CLA	CHC-C1C	3.12	1.43	1.35
22	A	805	CLA	CHC-C1C	3.12	1.43	1.35
22	O	313	CLA	CHC-C1C	3.12	1.43	1.35
22	F	404	CLA	CHC-C1C	3.12	1.43	1.35
22	B	834	CLA	CHC-C1C	3.12	1.43	1.35
22	S	610	CLA	CHC-C1C	3.12	1.43	1.35
22	U	412	CLA	CHC-C1C	3.12	1.43	1.35
22	A	833	CLA	CHC-C1C	3.12	1.43	1.35
22	G	604	CLA	CHC-C1C	3.12	1.43	1.35
22	S	609	CLA	CHC-C1C	3.12	1.43	1.35
22	B	811	CLA	CHC-C1C	3.12	1.43	1.35
22	A	822	CLA	CHC-C1C	3.12	1.43	1.35
22	R	610	CLA	CHC-C1C	3.12	1.43	1.35
22	X	404	CLA	CHC-C1C	3.12	1.43	1.35
22	A	842	CLA	CHC-C1C	3.12	1.43	1.35
22	G	611	CLA	CHC-C1C	3.12	1.43	1.35
22	I	603	CLA	CHC-C1C	3.11	1.43	1.35
22	A	824	CLA	CHC-C1C	3.11	1.42	1.35
22	I	601	CLA	CHC-C1C	3.11	1.42	1.35
22	O	305	CLA	CHC-C1C	3.11	1.42	1.35
22	J	102	CLA	CHC-C1C	3.11	1.42	1.35
22	R	615	CLA	CHC-C1C	3.11	1.42	1.35
22	O	319	CLA	CHC-C1C	3.11	1.42	1.35
22	H	305	CLA	CHC-C1C	3.11	1.42	1.35
22	I	605	CLA	CHC-C1C	3.11	1.42	1.35
22	A	815	CLA	CHC-C1C	3.11	1.42	1.35
22	T	608	CLA	CHC-C1C	3.11	1.42	1.35
22	T	603	CLA	CHC-C1C	3.11	1.42	1.35
22	X	412	CLA	CHC-C1C	3.11	1.42	1.35
22	A	808	CLA	CHC-C1C	3.11	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	Q	608	CLA	CHC-C1C	3.11	1.42	1.35
22	K	602	CLA	CHC-C1C	3.11	1.42	1.35
22	U	403	CLA	CHC-C1C	3.11	1.42	1.35
22	U	411	CLA	CHC-C1C	3.11	1.42	1.35
22	X	402	CLA	CHC-C1C	3.11	1.42	1.35
22	B	805	CLA	CHC-C1C	3.11	1.42	1.35
22	B	823	CLA	CHC-C1C	3.11	1.42	1.35
22	L	411	CLA	CHC-C1C	3.11	1.42	1.35
22	A	835	CLA	CHC-C1C	3.10	1.42	1.35
22	G	605	CLA	CHC-C1C	3.10	1.42	1.35
22	K	613	CLA	CHC-C1C	3.10	1.42	1.35
22	Q	605	CLA	CHC-C1C	3.10	1.42	1.35
22	W	409	CLA	CHC-C1C	3.10	1.42	1.35
22	B	810	CLA	CHC-C1C	3.10	1.42	1.35
22	O	307	CLA	CHC-C1C	3.10	1.42	1.35
22	B	809	CLA	CHC-C1C	3.10	1.42	1.35
31	V	606	CHL	C1B-NB	3.10	1.38	1.35
22	L	404	CLA	CHC-C1C	3.10	1.42	1.35
22	G	606	CLA	CHC-C1C	3.10	1.42	1.35
22	Q	606	CLA	CHC-C1C	3.10	1.42	1.35
22	A	825	CLA	CHC-C1C	3.10	1.42	1.35
22	P	602	CLA	C4D-ND	-3.10	1.33	1.37
22	H	304	CLA	CHC-C1C	3.10	1.42	1.35
22	A	841	CLA	CHC-C1C	3.10	1.42	1.35
22	B	804	CLA	CHC-C1C	3.10	1.42	1.35
22	T	610	CLA	CHC-C1C	3.09	1.42	1.35
22	K	612	CLA	CHC-C1C	3.09	1.42	1.35
22	L	407	CLA	CHC-C1C	3.09	1.42	1.35
22	A	813	CLA	CHC-C1C	3.09	1.42	1.35
22	O	312	CLA	CHC-C1C	3.09	1.42	1.35
22	B	826	CLA	CHC-C1C	3.09	1.42	1.35
22	G	608	CLA	CHC-C1C	3.09	1.42	1.35
22	I	604	CLA	CHC-C1C	3.09	1.42	1.35
22	N	601	CLA	CHC-C1C	3.09	1.42	1.35
22	P	606	CLA	CHC-C1C	3.09	1.42	1.35
22	N	603	CLA	CHC-C1C	3.09	1.42	1.35
22	N	611	CLA	CHC-C1C	3.09	1.42	1.35
22	W	419	CLA	CHC-C1C	3.09	1.42	1.35
22	N	608	CLA	CHC-C1C	3.09	1.42	1.35
22	B	837	CLA	CHC-C1C	3.09	1.42	1.35
22	G	607	CLA	CHC-C1C	3.09	1.42	1.35
22	K	605	CLA	CHC-C1C	3.09	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	L	417	CLA	CHC-C1C	3.09	1.42	1.35
22	U	404	CLA	CHC-C1C	3.09	1.42	1.35
22	S	602	CLA	CHC-C1C	3.09	1.42	1.35
22	P	609	CLA	CHC-C1C	3.09	1.42	1.35
22	B	838	CLA	CHC-C1C	3.09	1.42	1.35
22	I	609	CLA	CHC-C1C	3.08	1.42	1.35
22	B	821	CLA	CHC-C1C	3.08	1.42	1.35
22	A	844	CLA	CHC-C1C	3.08	1.42	1.35
22	B	817	CLA	CHC-C1C	3.08	1.42	1.35
22	G	603	CLA	CHC-C1C	3.08	1.42	1.35
22	R	607	CLA	CHC-C1C	3.08	1.42	1.35
22	O	306	CLA	C4D-ND	-3.08	1.33	1.37
22	S	601	CLA	CHC-C1C	3.08	1.42	1.35
22	X	419	CLA	CHC-C1C	3.08	1.42	1.35
22	A	812	CLA	CHC-C1C	3.08	1.42	1.35
22	Q	613	CLA	CHC-C1C	3.08	1.42	1.35
22	U	413	CLA	CHC-C1C	3.07	1.42	1.35
22	B	806	CLA	CHC-C1C	3.07	1.42	1.35
22	W	414	CLA	CHC-C1C	3.07	1.42	1.35
22	X	410	CLA	CHC-C1C	3.07	1.42	1.35
22	A	836	CLA	CHC-C1C	3.07	1.42	1.35
22	H	307	CLA	CHC-C1C	3.07	1.42	1.35
22	V	608	CLA	CHC-C1C	3.07	1.42	1.35
22	W	404	CLA	CHC-C1C	3.07	1.42	1.35
22	F	403	CLA	CHC-C1C	3.07	1.42	1.35
22	S	615	CLA	CHC-C1C	3.07	1.42	1.35
22	A	838	CLA	CHC-C1C	3.07	1.42	1.35
22	A	821	CLA	CHC-C1C	3.07	1.42	1.35
22	H	310	CLA	CHC-C1C	3.06	1.42	1.35
22	P	608	CLA	CHC-C1C	3.06	1.42	1.35
22	T	606	CLA	CHC-C1C	3.06	1.42	1.35
22	K	609	CLA	CHC-C1C	3.06	1.42	1.35
22	Q	611	CLA	CHC-C1C	3.06	1.42	1.35
33	A	802	CL0	CHD-C4C	3.06	1.46	1.39
22	K	608	CLA	C1D-ND	3.05	1.41	1.37
22	X	417	CLA	CHC-C1C	3.05	1.42	1.35
22	K	604	CLA	CHC-C1C	3.05	1.42	1.35
22	B	802	CLA	C1D-ND	3.05	1.41	1.37
33	A	802	CL0	C3D-C2D	3.04	1.47	1.39
22	X	403	CLA	CHC-C1C	3.04	1.42	1.35
22	A	840	CLA	CHC-C1C	3.04	1.42	1.35
31	W	422	CHL	C3B-C2B	-3.04	1.36	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	O	310	CLA	CHC-C1C	3.04	1.42	1.35
31	W	408	CHL	C1B-NB	3.04	1.37	1.35
22	Q	612	CLA	CHC-C1C	3.04	1.42	1.35
22	A	818	CLA	CHC-C1C	3.03	1.42	1.35
22	B	830	CLA	C1D-ND	3.03	1.41	1.37
31	V	606	CHL	MG-NC	-3.03	1.99	2.06
22	A	816	CLA	CHC-C1C	3.03	1.42	1.35
22	B	819	CLA	CHC-C1C	3.02	1.42	1.35
22	B	832	CLA	CHC-C1C	3.02	1.42	1.35
22	L	417	CLA	C4D-ND	-3.02	1.33	1.37
22	X	403	CLA	C4D-ND	-3.01	1.33	1.37
22	Q	604	CLA	C4D-ND	-3.01	1.33	1.37
22	A	811	CLA	C4D-ND	-3.01	1.33	1.37
22	A	837	CLA	C4D-ND	-3.00	1.33	1.37
22	R	611	CLA	C4D-ND	-3.00	1.33	1.37
22	B	802	CLA	CHC-C1C	3.00	1.42	1.35
22	K	603	CLA	C4D-ND	-3.00	1.33	1.37
31	U	408	CHL	MG-NC	-3.00	1.99	2.06
22	A	809	CLA	C4D-ND	-3.00	1.33	1.37
22	I	602	CLA	C4D-ND	-3.00	1.33	1.37
31	U	407	CHL	C3B-C2B	-3.00	1.36	1.40
22	T	602	CLA	C4D-ND	-2.99	1.33	1.37
22	A	832	CLA	C4D-ND	-2.99	1.33	1.37
22	X	411	CLA	C4D-ND	-2.99	1.33	1.37
22	L	408	CLA	C1D-ND	2.99	1.41	1.37
22	A	813	CLA	C4D-ND	-2.99	1.33	1.37
31	W	407	CHL	C3B-C2B	-2.99	1.36	1.40
22	G	605	CLA	C4D-ND	-2.99	1.33	1.37
22	L	410	CLA	C4D-ND	-2.99	1.33	1.37
22	B	836	CLA	CHC-C1C	2.98	1.42	1.35
22	U	404	CLA	C4D-ND	-2.98	1.33	1.37
22	A	801	CLA	CHC-C1C	2.98	1.42	1.35
22	W	409	CLA	C4D-ND	-2.98	1.33	1.37
22	A	834	CLA	C4D-ND	-2.98	1.33	1.37
22	N	610	CLA	CHC-C1C	2.98	1.42	1.35
22	B	829	CLA	CHC-C1C	2.97	1.42	1.35
22	P	607	CLA	C4D-ND	-2.97	1.33	1.37
22	F	404	CLA	C4D-ND	-2.97	1.33	1.37
22	Q	611	CLA	C4D-ND	-2.97	1.33	1.37
22	L	404	CLA	C4D-ND	-2.97	1.33	1.37
22	I	601	CLA	C4D-ND	-2.97	1.33	1.37
22	K	604	CLA	C4D-ND	-2.97	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	G	608	CLA	C4D-ND	-2.96	1.33	1.37
22	B	805	CLA	C4D-ND	-2.96	1.33	1.37
22	X	410	CLA	C4D-ND	-2.96	1.33	1.37
22	A	804	CLA	C4D-ND	-2.96	1.33	1.37
22	A	827	CLA	C4D-ND	-2.96	1.33	1.37
31	U	408	CHL	C3B-C2B	-2.96	1.36	1.40
22	K	617	CLA	C4D-ND	-2.96	1.33	1.37
22	W	405	CLA	CHC-C1C	2.95	1.42	1.35
22	H	305	CLA	C4D-ND	-2.95	1.33	1.37
22	H	313	CLA	C4D-ND	-2.95	1.33	1.37
22	K	606	CLA	C4D-ND	-2.95	1.33	1.37
22	K	607	CLA	CHC-C1C	2.95	1.42	1.35
22	H	303	CLA	C4D-ND	-2.95	1.33	1.37
22	A	812	CLA	C4D-ND	-2.95	1.33	1.37
22	N	602	CLA	C4D-ND	-2.95	1.33	1.37
22	L	405	CLA	C4D-ND	-2.95	1.33	1.37
22	Q	603	CLA	C4D-ND	-2.95	1.33	1.37
22	W	403	CLA	C4D-ND	-2.95	1.33	1.37
22	T	610	CLA	C4D-ND	-2.95	1.33	1.37
22	P	605	CLA	C4D-ND	-2.94	1.33	1.37
22	T	609	CLA	C4D-ND	-2.94	1.33	1.37
22	A	820	CLA	C4D-ND	-2.94	1.33	1.37
22	K	610	CLA	C4D-ND	-2.94	1.33	1.37
22	A	844	CLA	C4D-ND	-2.94	1.33	1.37
22	N	604	CLA	C4D-ND	-2.94	1.33	1.37
22	J	102	CLA	C4D-ND	-2.94	1.33	1.37
22	B	835	CLA	C4D-ND	-2.94	1.33	1.37
22	R	602	CLA	C4D-ND	-2.94	1.33	1.37
22	A	810	CLA	C4D-ND	-2.94	1.33	1.37
22	B	807	CLA	C4D-ND	-2.94	1.33	1.37
22	X	413	CLA	C4D-ND	-2.94	1.33	1.37
22	B	822	CLA	C4D-ND	-2.94	1.33	1.37
22	B	825	CLA	C4D-ND	-2.94	1.33	1.37
22	V	613	CLA	C4D-ND	-2.94	1.33	1.37
22	A	808	CLA	C4D-ND	-2.94	1.33	1.37
22	F	403	CLA	C4D-ND	-2.94	1.33	1.37
22	A	815	CLA	C4D-ND	-2.94	1.33	1.37
22	N	601	CLA	C4D-ND	-2.93	1.33	1.37
22	H	310	CLA	C4D-ND	-2.93	1.33	1.37
22	P	608	CLA	C4D-ND	-2.93	1.33	1.37
22	A	801	CLA	C1D-ND	2.93	1.41	1.37
22	I	609	CLA	C4D-ND	-2.93	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	821	CLA	C4D-ND	-2.93	1.33	1.37
22	W	412	CLA	C4D-ND	-2.93	1.33	1.37
22	G	602	CLA	C4D-ND	-2.93	1.33	1.37
22	X	405	CLA	C4D-ND	-2.93	1.33	1.37
22	N	611	CLA	C4D-ND	-2.93	1.33	1.37
22	H	307	CLA	C4D-ND	-2.93	1.33	1.37
22	B	811	CLA	C4D-ND	-2.93	1.33	1.37
22	L	412	CLA	C4D-ND	-2.93	1.33	1.37
22	X	402	CLA	C4D-ND	-2.92	1.33	1.37
22	A	828	CLA	C4D-ND	-2.92	1.33	1.37
22	W	405	CLA	C4D-ND	-2.92	1.33	1.37
22	A	836	CLA	C4D-ND	-2.92	1.33	1.37
22	H	312	CLA	C4D-ND	-2.92	1.33	1.37
22	N	605	CLA	C4D-ND	-2.92	1.33	1.37
22	A	825	CLA	C4D-ND	-2.92	1.33	1.37
22	T	601	CLA	C4D-ND	-2.92	1.33	1.37
22	X	417	CLA	C4D-ND	-2.92	1.33	1.37
22	B	818	CLA	C4D-ND	-2.92	1.33	1.37
22	G	610	CLA	C4D-ND	-2.92	1.33	1.37
22	A	852	CLA	C4D-ND	-2.92	1.33	1.37
22	B	812	CLA	C4D-ND	-2.92	1.33	1.37
22	R	607	CLA	C4D-ND	-2.92	1.33	1.37
22	B	827	CLA	C4D-ND	-2.92	1.33	1.37
22	W	410	CLA	C4D-ND	-2.91	1.33	1.37
31	U	407	CHL	C1B-NB	2.91	1.37	1.35
22	B	803	CLA	C4D-ND	-2.91	1.33	1.37
22	K	602	CLA	C4D-ND	-2.91	1.33	1.37
22	N	610	CLA	C4D-ND	-2.91	1.33	1.37
22	K	608	CLA	CHC-C1C	2.91	1.42	1.35
22	W	404	CLA	C4D-ND	-2.91	1.33	1.37
22	R	608	CLA	C4D-ND	-2.91	1.33	1.37
22	B	838	CLA	C4D-ND	-2.91	1.33	1.37
22	O	311	CLA	C4D-ND	-2.91	1.33	1.37
22	T	607	CLA	C4D-ND	-2.91	1.33	1.37
22	X	407	CLA	C4D-ND	-2.91	1.33	1.37
22	A	805	CLA	C4D-ND	-2.90	1.33	1.37
22	W	406	CLA	C4D-ND	-2.90	1.33	1.37
22	H	311	CLA	C4D-ND	-2.90	1.33	1.37
22	B	830	CLA	CHC-C1C	2.90	1.42	1.35
22	O	305	CLA	C4D-ND	-2.90	1.33	1.37
22	A	833	CLA	C4D-ND	-2.90	1.33	1.37
22	I	611	CLA	C4D-ND	-2.90	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	K	605	CLA	C4D-ND	-2.90	1.33	1.37
22	T	604	CLA	C4D-ND	-2.90	1.33	1.37
22	A	842	CLA	C4D-ND	-2.90	1.33	1.37
31	X	406	CHL	C3B-C2B	-2.90	1.36	1.40
22	H	318	CLA	C4D-ND	-2.90	1.33	1.37
22	I	605	CLA	C4D-ND	-2.90	1.33	1.37
22	B	836	CLA	C4D-ND	-2.89	1.33	1.37
22	L	406	CLA	C4D-ND	-2.89	1.33	1.37
22	L	402	CLA	C4D-ND	-2.89	1.33	1.37
22	B	828	CLA	C4D-ND	-2.89	1.33	1.37
22	I	603	CLA	C4D-ND	-2.89	1.33	1.37
22	U	412	CLA	C4D-ND	-2.89	1.33	1.37
22	A	823	CLA	C4D-ND	-2.89	1.33	1.37
22	G	601	CLA	C4D-ND	-2.89	1.33	1.37
22	A	822	CLA	C4D-ND	-2.89	1.33	1.37
22	A	807	CLA	C4D-ND	-2.89	1.33	1.37
22	Q	617	CLA	C4D-ND	-2.89	1.33	1.37
22	V	610	CLA	C4D-ND	-2.89	1.33	1.37
22	R	601	CLA	C4D-ND	-2.89	1.33	1.37
22	R	604	CLA	C4D-ND	-2.88	1.33	1.37
22	H	306	CLA	C4D-ND	-2.88	1.33	1.37
22	B	819	CLA	C4D-ND	-2.88	1.33	1.37
22	N	607	CLA	C4D-ND	-2.88	1.33	1.37
22	S	607	CLA	C4D-ND	-2.88	1.33	1.37
22	X	408	CLA	C4D-ND	-2.88	1.33	1.37
22	A	821	CLA	C4D-ND	-2.88	1.33	1.37
22	K	609	CLA	C4D-ND	-2.88	1.33	1.37
22	S	610	CLA	C4D-ND	-2.88	1.33	1.37
22	Q	612	CLA	C4D-ND	-2.88	1.33	1.37
22	A	840	CLA	C4D-ND	-2.88	1.33	1.37
22	Q	608	CLA	C4D-ND	-2.88	1.33	1.37
22	B	815	CLA	C4D-ND	-2.88	1.33	1.37
22	B	816	CLA	C4D-ND	-2.88	1.33	1.37
22	I	610	CLA	C4D-ND	-2.88	1.33	1.37
22	O	315	CLA	C4D-ND	-2.88	1.33	1.37
31	W	408	CHL	C3B-C2B	-2.87	1.36	1.40
22	B	823	CLA	C4D-ND	-2.87	1.33	1.37
22	H	302	CLA	C4D-ND	-2.87	1.33	1.37
22	O	314	CLA	C4D-ND	-2.87	1.33	1.37
22	W	419	CLA	C4D-ND	-2.87	1.33	1.37
22	O	308	CLA	C4D-ND	-2.87	1.33	1.37
22	G	604	CLA	C4D-ND	-2.87	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	L	403	CLA	C4D-ND	-2.87	1.33	1.37
22	X	412	CLA	C4D-ND	-2.87	1.33	1.37
22	P	609	CLA	C4D-ND	-2.87	1.33	1.37
22	S	602	CLA	C4D-ND	-2.87	1.33	1.37
22	A	831	CLA	C4D-ND	-2.87	1.33	1.37
22	B	809	CLA	C4D-ND	-2.87	1.33	1.37
22	A	838	CLA	C4D-ND	-2.87	1.33	1.37
31	V	605	CHL	C3B-C2B	-2.87	1.36	1.40
22	W	414	CLA	C4D-ND	-2.87	1.33	1.37
22	B	808	CLA	C4D-ND	-2.86	1.33	1.37
22	B	839	CLA	C4D-ND	-2.86	1.33	1.37
22	B	804	CLA	C4D-ND	-2.86	1.33	1.37
31	U	408	CHL	C1B-NB	2.86	1.37	1.35
22	I	606	CLA	C4D-ND	-2.86	1.33	1.37
22	O	312	CLA	C4D-ND	-2.86	1.33	1.37
22	T	605	CLA	C4D-ND	-2.86	1.33	1.37
22	G	611	CLA	C4D-ND	-2.86	1.33	1.37
22	N	606	CLA	C4D-ND	-2.86	1.33	1.37
22	V	608	CLA	C4D-ND	-2.86	1.33	1.37
22	X	419	CLA	C4D-ND	-2.86	1.33	1.37
22	A	817	CLA	C4D-ND	-2.86	1.33	1.37
22	I	604	CLA	C4D-ND	-2.86	1.33	1.37
22	L	411	CLA	C4D-ND	-2.86	1.33	1.37
22	B	806	CLA	C4D-ND	-2.85	1.33	1.37
22	R	605	CLA	C4D-ND	-2.85	1.33	1.37
22	S	606	CLA	C4D-ND	-2.85	1.33	1.37
22	A	839	CLA	C4D-ND	-2.85	1.33	1.37
22	W	413	CLA	C4D-ND	-2.85	1.33	1.37
22	B	814	CLA	C4D-ND	-2.85	1.33	1.37
22	T	606	CLA	C4D-ND	-2.85	1.33	1.37
22	H	309	CLA	C4D-ND	-2.85	1.33	1.37
22	A	818	CLA	C4D-ND	-2.85	1.33	1.37
22	G	606	CLA	C4D-ND	-2.85	1.33	1.37
22	Q	601	CLA	C4D-ND	-2.85	1.33	1.37
22	B	859	CLA	C4D-ND	-2.85	1.33	1.37
22	N	608	CLA	C4D-ND	-2.85	1.33	1.37
22	B	831	CLA	C4D-ND	-2.85	1.33	1.37
22	G	609	CLA	C4D-ND	-2.85	1.33	1.37
22	H	308	CLA	C4D-ND	-2.85	1.33	1.37
22	U	409	CLA	C4D-ND	-2.85	1.33	1.37
22	R	615	CLA	C4D-ND	-2.85	1.33	1.37
22	O	310	CLA	C4D-ND	-2.85	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	U	413	CLA	C4D-ND	-2.85	1.33	1.37
22	Q	618	CLA	C4D-ND	-2.85	1.33	1.37
22	U	405	CLA	C4D-ND	-2.84	1.33	1.37
22	U	406	CLA	C4D-ND	-2.84	1.33	1.37
22	Q	609	CLA	C4D-ND	-2.84	1.33	1.37
22	A	806	CLA	C4D-ND	-2.84	1.33	1.37
31	X	406	CHL	MG-NC	-2.84	1.99	2.06
22	B	833	CLA	C4D-ND	-2.84	1.33	1.37
22	P	604	CLA	C4D-ND	-2.84	1.33	1.37
22	U	401	CLA	C4D-ND	-2.84	1.33	1.37
31	V	606	CHL	C3B-C2B	-2.84	1.36	1.40
22	Q	610	CLA	C4D-ND	-2.84	1.33	1.37
22	Q	607	CLA	C4D-ND	-2.84	1.33	1.37
22	V	602	CLA	C4D-ND	-2.84	1.33	1.37
26	U	419	LHG	C26-C25	-2.84	1.35	1.51
22	B	810	CLA	C4D-ND	-2.83	1.33	1.37
22	A	826	CLA	C4D-ND	-2.83	1.33	1.37
22	T	608	CLA	C4D-ND	-2.83	1.33	1.37
26	H	316	LHG	C26-C25	-2.83	1.35	1.51
22	S	615	CLA	C4D-ND	-2.83	1.33	1.37
22	U	410	CLA	C4D-ND	-2.83	1.33	1.37
22	V	601	CLA	C4D-ND	-2.83	1.33	1.37
22	S	603	CLA	C4D-ND	-2.83	1.33	1.37
22	V	604	CLA	C4D-ND	-2.83	1.33	1.37
22	S	604	CLA	C4D-ND	-2.83	1.33	1.37
22	U	414	CLA	C4D-ND	-2.83	1.33	1.37
26	X	420	LHG	C26-C25	-2.83	1.35	1.51
22	U	420	CLA	C4D-ND	-2.83	1.33	1.37
22	L	407	CLA	C4D-ND	-2.83	1.33	1.37
22	S	609	CLA	C4D-ND	-2.83	1.33	1.37
26	L	416	LHG	C26-C25	-2.83	1.35	1.51
22	O	319	CLA	C4D-ND	-2.82	1.33	1.37
22	Q	606	CLA	C4D-ND	-2.82	1.33	1.37
22	V	609	CLA	C4D-ND	-2.82	1.33	1.37
26	P	601	LHG	C26-C25	-2.82	1.35	1.51
22	O	313	CLA	C4D-ND	-2.82	1.33	1.37
31	V	605	CHL	MG-NC	-2.82	1.99	2.06
22	A	835	CLA	C4D-ND	-2.82	1.33	1.37
26	N	614	LHG	C26-C25	-2.82	1.35	1.51
26	T	614	LHG	C26-C25	-2.82	1.35	1.51
26	B	851	LHG	C26-C25	-2.82	1.35	1.51
22	U	403	CLA	C4D-ND	-2.81	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	V	612	CLA	C4D-ND	-2.81	1.33	1.37
26	O	323	LHG	C26-C25	-2.81	1.35	1.51
26	Q	616	LHG	C26-C25	-2.81	1.35	1.51
26	O	318	LHG	C26-C25	-2.81	1.35	1.51
22	A	814	CLA	C4D-ND	-2.81	1.33	1.37
26	O	324	LHG	C26-C25	-2.81	1.35	1.51
22	I	607	CLA	C4D-ND	-2.81	1.33	1.37
22	V	607	CLA	C4D-ND	-2.81	1.33	1.37
26	A	845	LHG	C26-C25	-2.81	1.35	1.51
22	H	304	CLA	C4D-ND	-2.81	1.33	1.37
22	K	613	CLA	C4D-ND	-2.81	1.33	1.37
22	R	610	CLA	C4D-ND	-2.81	1.33	1.37
22	S	614	CLA	C4D-ND	-2.81	1.33	1.37
26	R	614	LHG	C26-C25	-2.81	1.35	1.51
22	S	601	CLA	C4D-ND	-2.81	1.33	1.37
26	K	619	LHG	C26-C25	-2.81	1.35	1.51
22	R	603	CLA	C4D-ND	-2.81	1.33	1.37
22	B	802	CLA	CMB-C2B	-2.80	1.45	1.51
26	K	616	LHG	C26-C25	-2.80	1.35	1.51
22	A	824	CLA	C4D-ND	-2.80	1.33	1.37
22	K	608	CLA	CMB-C2B	-2.80	1.45	1.51
22	K	612	CLA	C4D-ND	-2.80	1.33	1.37
22	W	402	CLA	C4D-ND	-2.80	1.33	1.37
22	B	834	CLA	C4D-ND	-2.80	1.33	1.37
22	O	309	CLA	C4D-ND	-2.80	1.33	1.37
26	W	420	LHG	C26-C25	-2.80	1.35	1.51
26	O	321	LHG	C26-C25	-2.80	1.35	1.51
26	N	616	LHG	C26-C25	-2.80	1.35	1.51
22	K	611	CLA	C4D-ND	-2.80	1.33	1.37
26	A	846	LHG	C26-C25	-2.79	1.35	1.51
22	V	611	CLA	C4D-ND	-2.79	1.33	1.37
22	T	603	CLA	C4D-ND	-2.79	1.33	1.37
22	N	609	CLA	C4D-ND	-2.79	1.33	1.37
26	S	613	LHG	C26-C25	-2.79	1.35	1.51
22	X	409	CLA	C4D-ND	-2.79	1.33	1.37
26	G	614	LHG	C26-C25	-2.79	1.35	1.51
22	B	826	CLA	C4D-ND	-2.79	1.33	1.37
22	Q	605	CLA	C4D-ND	-2.79	1.33	1.37
31	X	406	CHL	C1B-NB	2.79	1.37	1.35
22	R	609	CLA	C4D-ND	-2.79	1.33	1.37
22	U	415	CLA	C4D-ND	-2.79	1.33	1.37
22	B	824	CLA	C4D-ND	-2.78	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	832	CLA	C4D-ND	-2.78	1.33	1.37
22	B	817	CLA	C4D-ND	-2.78	1.33	1.37
22	F	405	CLA	C4D-ND	-2.78	1.33	1.37
22	K	607	CLA	CMB-C2B	-2.77	1.45	1.51
22	X	404	CLA	C4D-ND	-2.77	1.33	1.37
22	B	830	CLA	CMB-C2B	-2.77	1.45	1.51
22	B	813	CLA	C4D-ND	-2.77	1.33	1.37
22	I	608	CLA	C4D-ND	-2.77	1.33	1.37
22	T	611	CLA	C4D-ND	-2.77	1.33	1.37
22	S	605	CLA	CHC-C1C	2.77	1.42	1.35
22	A	819	CLA	CMB-C2B	-2.77	1.45	1.51
33	A	802	CL0	C3D-C4D	-2.77	1.37	1.44
22	U	411	CLA	C4D-ND	-2.76	1.33	1.37
22	A	830	CLA	C4D-ND	-2.76	1.33	1.37
22	L	409	CLA	C4D-ND	-2.75	1.33	1.37
22	B	829	CLA	CMB-C2B	-2.75	1.45	1.51
22	G	607	CLA	C4D-ND	-2.75	1.33	1.37
31	W	422	CHL	MG-NC	-2.75	1.99	2.06
22	Q	613	CLA	C4D-ND	-2.75	1.33	1.37
22	S	608	CLA	C4D-ND	-2.75	1.33	1.37
22	B	837	CLA	C4D-ND	-2.74	1.33	1.37
22	V	603	CLA	C4D-ND	-2.74	1.33	1.37
22	L	408	CLA	CMB-C2B	-2.74	1.45	1.51
22	R	606	CLA	C4D-ND	-2.74	1.33	1.37
31	V	605	CHL	C1B-NB	2.73	1.37	1.35
22	A	841	CLA	C4D-ND	-2.73	1.33	1.37
22	V	617	CLA	C4D-ND	-2.72	1.33	1.37
22	G	603	CLA	C4D-ND	-2.72	1.33	1.37
22	A	829	CLA	C4D-ND	-2.72	1.34	1.37
22	O	307	CLA	C4D-ND	-2.70	1.34	1.37
22	B	820	CLA	C4D-ND	-2.70	1.34	1.37
22	P	603	CLA	C4D-ND	-2.70	1.34	1.37
22	P	611	CLA	C4D-ND	-2.70	1.34	1.37
33	A	802	CL0	OBD-CAD	2.69	1.27	1.22
31	W	407	CHL	C1B-NB	2.69	1.37	1.35
22	N	603	CLA	C4D-ND	-2.69	1.34	1.37
22	P	610	CLA	C4D-ND	-2.68	1.34	1.37
31	U	407	CHL	MG-NC	-2.68	1.99	2.06
22	W	411	CLA	C4D-ND	-2.68	1.34	1.37
22	W	415	CLA	C4D-ND	-2.66	1.34	1.37
22	A	819	CLA	C3B-C2B	-2.65	1.36	1.40
22	P	606	CLA	C4D-ND	-2.64	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	S	605	CLA	CMB-C2B	-2.62	1.46	1.51
22	A	801	CLA	CMB-C2B	-2.60	1.46	1.51
31	W	407	CHL	MG-NC	-2.60	2.00	2.06
22	R	607	CLA	CMB-C2B	-2.59	1.46	1.51
31	W	422	CHL	C1B-NB	2.57	1.37	1.35
22	N	610	CLA	CMB-C2B	-2.57	1.46	1.51
22	A	820	CLA	CMB-C2B	-2.56	1.46	1.51
22	A	816	CLA	CMB-C2B	-2.56	1.46	1.51
22	I	611	CLA	CMB-C2B	-2.55	1.46	1.51
22	K	608	CLA	CMD-C2D	-2.53	1.45	1.50
22	X	405	CLA	CMB-C2B	-2.53	1.46	1.51
22	B	828	CLA	CMB-C2B	-2.52	1.46	1.51
22	B	838	CLA	CMB-C2B	-2.52	1.46	1.51
22	A	824	CLA	CMB-C2B	-2.51	1.46	1.51
22	B	837	CLA	CMB-C2B	-2.50	1.46	1.51
31	W	408	CHL	MG-NC	-2.50	2.00	2.06
22	K	608	CLA	C3B-C2B	-2.50	1.36	1.40
22	K	603	CLA	CMB-C2B	-2.50	1.46	1.51
22	H	311	CLA	CMB-C2B	-2.50	1.46	1.51
22	V	612	CLA	CMB-C2B	-2.50	1.46	1.51
22	W	409	CLA	CMB-C2B	-2.50	1.46	1.51
22	L	405	CLA	CMB-C2B	-2.50	1.46	1.51
22	O	309	CLA	CMB-C2B	-2.50	1.46	1.51
22	A	841	CLA	CMB-C2B	-2.49	1.46	1.51
22	B	819	CLA	CMB-C2B	-2.49	1.46	1.51
22	B	802	CLA	CMD-C2D	-2.49	1.45	1.50
22	P	609	CLA	CMB-C2B	-2.49	1.46	1.51
22	Q	613	CLA	CMB-C2B	-2.49	1.46	1.51
31	V	606	CHL	C2C-C1C	2.49	1.49	1.44
22	K	617	CLA	CMB-C2B	-2.48	1.46	1.51
22	B	813	CLA	CMB-C2B	-2.48	1.46	1.51
22	X	412	CLA	CMB-C2B	-2.48	1.46	1.51
22	G	605	CLA	CMB-C2B	-2.48	1.46	1.51
22	A	836	CLA	CMB-C2B	-2.48	1.46	1.51
22	Q	609	CLA	CMB-C2B	-2.48	1.46	1.51
22	H	303	CLA	CMB-C2B	-2.48	1.46	1.51
22	V	604	CLA	CMB-C2B	-2.48	1.46	1.51
22	B	821	CLA	CMB-C2B	-2.48	1.46	1.51
22	G	606	CLA	CMB-C2B	-2.48	1.46	1.51
22	H	307	CLA	CMB-C2B	-2.48	1.46	1.51
22	A	818	CLA	CMB-C2B	-2.48	1.46	1.51
22	Q	601	CLA	CMB-C2B	-2.48	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	W	412	CLA	CMB-C2B	-2.48	1.46	1.51
22	U	412	CLA	CMB-C2B	-2.47	1.46	1.51
22	A	831	CLA	CMB-C2B	-2.47	1.46	1.51
22	O	310	CLA	CMB-C2B	-2.47	1.46	1.51
22	W	403	CLA	CMB-C2B	-2.47	1.46	1.51
22	L	402	CLA	CMB-C2B	-2.47	1.46	1.51
22	H	306	CLA	CMB-C2B	-2.47	1.46	1.51
22	U	415	CLA	CMB-C2B	-2.47	1.46	1.51
22	W	406	CLA	CMB-C2B	-2.47	1.46	1.51
22	B	815	CLA	CMB-C2B	-2.47	1.46	1.51
22	B	817	CLA	CMB-C2B	-2.47	1.46	1.51
22	T	607	CLA	CMB-C2B	-2.47	1.46	1.51
22	T	605	CLA	CMB-C2B	-2.47	1.46	1.51
22	B	818	CLA	CMB-C2B	-2.47	1.46	1.51
22	B	807	CLA	CMB-C2B	-2.47	1.46	1.51
26	K	616	LHG	O8-C6	-2.47	1.39	1.45
22	A	842	CLA	CMB-C2B	-2.46	1.46	1.51
22	O	315	CLA	CMB-C2B	-2.46	1.46	1.51
22	B	808	CLA	CMB-C2B	-2.46	1.46	1.51
22	L	409	CLA	CMB-C2B	-2.46	1.46	1.51
22	B	816	CLA	CMB-C2B	-2.46	1.46	1.51
22	A	838	CLA	CMB-C2B	-2.46	1.46	1.51
22	S	615	CLA	CMB-C2B	-2.46	1.46	1.51
22	H	302	CLA	CMB-C2B	-2.46	1.46	1.51
22	X	410	CLA	CMB-C2B	-2.46	1.46	1.51
22	A	808	CLA	CMB-C2B	-2.46	1.46	1.51
22	A	821	CLA	CMB-C2B	-2.46	1.46	1.51
22	I	608	CLA	CMB-C2B	-2.46	1.46	1.51
22	U	414	CLA	CMB-C2B	-2.46	1.46	1.51
22	I	606	CLA	CMB-C2B	-2.45	1.46	1.51
22	I	610	CLA	CMB-C2B	-2.45	1.46	1.51
22	Q	608	CLA	CMB-C2B	-2.45	1.46	1.51
22	W	414	CLA	CMB-C2B	-2.45	1.46	1.51
22	I	601	CLA	CMB-C2B	-2.45	1.46	1.51
22	I	604	CLA	CMB-C2B	-2.45	1.46	1.51
22	B	809	CLA	CMB-C2B	-2.45	1.46	1.51
22	B	859	CLA	CMB-C2B	-2.45	1.46	1.51
22	P	602	CLA	CMB-C2B	-2.45	1.46	1.51
22	A	807	CLA	CMB-C2B	-2.45	1.46	1.51
22	U	401	CLA	CMB-C2B	-2.45	1.46	1.51
22	Q	606	CLA	CMB-C2B	-2.45	1.46	1.51
22	V	609	CLA	CMB-C2B	-2.45	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	A	834	CLA	CMB-C2B	-2.45	1.46	1.51
22	K	602	CLA	CMB-C2B	-2.45	1.46	1.51
22	A	823	CLA	CMB-C2B	-2.45	1.46	1.51
22	B	836	CLA	CMB-C2B	-2.45	1.46	1.51
22	Q	610	CLA	CMB-C2B	-2.45	1.46	1.51
22	W	415	CLA	CMB-C2B	-2.45	1.46	1.51
22	S	610	CLA	CMB-C2B	-2.45	1.46	1.51
22	A	837	CLA	CMB-C2B	-2.45	1.46	1.51
22	B	804	CLA	CMB-C2B	-2.45	1.46	1.51
22	G	603	CLA	CMB-C2B	-2.44	1.46	1.51
22	P	608	CLA	CMB-C2B	-2.44	1.46	1.51
22	W	411	CLA	CMB-C2B	-2.44	1.46	1.51
22	X	404	CLA	CMB-C2B	-2.44	1.46	1.51
22	A	829	CLA	CMB-C2B	-2.44	1.46	1.51
26	T	614	LHG	O8-C6	-2.44	1.39	1.45
22	N	606	CLA	CMB-C2B	-2.44	1.46	1.51
22	S	609	CLA	CMB-C2B	-2.44	1.46	1.51
22	W	413	CLA	CMB-C2B	-2.44	1.46	1.51
22	K	609	CLA	CMB-C2B	-2.44	1.46	1.51
22	A	812	CLA	CMB-C2B	-2.44	1.46	1.51
22	B	802	CLA	MG-ND	-2.44	2.00	2.05
22	A	801	CLA	C3B-CAB	-2.44	1.43	1.47
22	H	313	CLA	CMB-C2B	-2.44	1.46	1.51
22	W	405	CLA	CMB-C2B	-2.44	1.46	1.51
22	A	830	CLA	CMB-C2B	-2.44	1.46	1.51
22	A	835	CLA	CMB-C2B	-2.44	1.46	1.51
22	O	306	CLA	CMB-C2B	-2.44	1.46	1.51
22	U	406	CLA	CMB-C2B	-2.44	1.46	1.51
26	O	324	LHG	O7-C7	2.44	1.41	1.34
22	B	826	CLA	CMB-C2B	-2.44	1.46	1.51
22	B	832	CLA	CMB-C2B	-2.44	1.46	1.51
22	J	102	CLA	CMB-C2B	-2.44	1.46	1.51
22	Q	604	CLA	CMB-C2B	-2.44	1.46	1.51
22	A	806	CLA	CMB-C2B	-2.44	1.46	1.51
26	G	614	LHG	O8-C6	-2.44	1.39	1.45
22	S	604	CLA	CMB-C2B	-2.44	1.46	1.51
22	U	410	CLA	CMB-C2B	-2.44	1.46	1.51
22	F	403	CLA	CMB-C2B	-2.44	1.46	1.51
22	G	610	CLA	CMB-C2B	-2.43	1.46	1.51
22	V	613	CLA	CMB-C2B	-2.43	1.46	1.51
22	B	803	CLA	CMB-C2B	-2.43	1.46	1.51
22	A	810	CLA	CMB-C2B	-2.43	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	U	419	LHG	O7-C7	2.43	1.41	1.34
22	N	604	CLA	CMB-C2B	-2.43	1.46	1.51
22	T	610	CLA	CMB-C2B	-2.43	1.46	1.51
22	F	405	CLA	CMB-C2B	-2.43	1.46	1.51
22	G	602	CLA	CMB-C2B	-2.43	1.46	1.51
22	V	608	CLA	CMB-C2B	-2.43	1.46	1.51
22	L	412	CLA	CMB-C2B	-2.43	1.46	1.51
22	U	405	CLA	CMB-C2B	-2.43	1.46	1.51
22	U	403	CLA	CMB-C2B	-2.43	1.46	1.51
22	K	610	CLA	CMB-C2B	-2.43	1.46	1.51
22	T	601	CLA	CMB-C2B	-2.43	1.46	1.51
26	W	420	LHG	O7-C7	2.43	1.41	1.34
22	L	407	CLA	CMB-C2B	-2.43	1.46	1.51
22	A	825	CLA	CMB-C2B	-2.43	1.46	1.51
22	U	413	CLA	CMB-C2B	-2.43	1.46	1.51
22	X	419	CLA	CMB-C2B	-2.43	1.46	1.51
22	O	311	CLA	CMB-C2B	-2.43	1.46	1.51
22	T	611	CLA	CMB-C2B	-2.43	1.46	1.51
22	A	826	CLA	CMB-C2B	-2.43	1.46	1.51
22	K	613	CLA	CMB-C2B	-2.43	1.46	1.51
22	T	602	CLA	CMB-C2B	-2.43	1.46	1.51
22	Q	618	CLA	CMB-C2B	-2.42	1.46	1.51
22	G	608	CLA	CMB-C2B	-2.42	1.46	1.51
22	I	603	CLA	CMB-C2B	-2.42	1.46	1.51
22	B	810	CLA	CMB-C2B	-2.42	1.46	1.51
22	A	844	CLA	CMB-C2B	-2.42	1.46	1.51
22	A	813	CLA	CMB-C2B	-2.42	1.46	1.51
22	Q	607	CLA	CMB-C2B	-2.42	1.46	1.51
22	W	402	CLA	CMB-C2B	-2.42	1.46	1.51
22	B	827	CLA	CMB-C2B	-2.42	1.46	1.51
22	K	604	CLA	CMB-C2B	-2.42	1.46	1.51
22	I	602	CLA	CMB-C2B	-2.42	1.46	1.51
22	W	410	CLA	CMB-C2B	-2.42	1.46	1.51
22	X	403	CLA	CMB-C2B	-2.42	1.46	1.51
22	V	610	CLA	CMB-C2B	-2.42	1.46	1.51
22	V	617	CLA	CMB-C2B	-2.42	1.46	1.51
22	K	606	CLA	CMB-C2B	-2.42	1.46	1.51
26	Q	616	LHG	O8-C6	-2.42	1.39	1.45
22	B	829	CLA	C3B-C2B	-2.42	1.37	1.40
22	A	828	CLA	CMB-C2B	-2.42	1.46	1.51
22	R	601	CLA	CMB-C2B	-2.42	1.46	1.51
22	A	809	CLA	CMB-C2B	-2.42	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	812	CLA	CMB-C2B	-2.41	1.46	1.51
22	S	608	CLA	CMB-C2B	-2.41	1.46	1.51
22	H	318	CLA	CMB-C2B	-2.41	1.46	1.51
22	B	833	CLA	CMB-C2B	-2.41	1.46	1.51
22	R	615	CLA	CMB-C2B	-2.41	1.46	1.51
22	P	603	CLA	CMB-C2B	-2.41	1.46	1.51
22	T	608	CLA	CMB-C2B	-2.41	1.46	1.51
22	G	607	CLA	CMB-C2B	-2.41	1.46	1.51
22	R	608	CLA	CMB-C2B	-2.41	1.46	1.51
22	A	817	CLA	CMB-C2B	-2.41	1.46	1.51
22	K	605	CLA	CMB-C2B	-2.41	1.46	1.51
22	B	834	CLA	CMB-C2B	-2.41	1.46	1.51
22	G	601	CLA	CMB-C2B	-2.41	1.46	1.51
22	L	406	CLA	CMB-C2B	-2.41	1.46	1.51
22	L	411	CLA	CMB-C2B	-2.40	1.46	1.51
26	A	846	LHG	O8-C6	-2.40	1.39	1.45
22	B	805	CLA	CMB-C2B	-2.40	1.46	1.51
22	A	840	CLA	CMB-C2B	-2.40	1.46	1.51
22	T	606	CLA	CMB-C2B	-2.40	1.46	1.51
22	A	822	CLA	CMB-C2B	-2.40	1.46	1.51
22	H	309	CLA	CMB-C2B	-2.40	1.46	1.51
22	N	607	CLA	CMB-C2B	-2.40	1.46	1.51
22	U	409	CLA	CMB-C2B	-2.40	1.46	1.51
22	I	605	CLA	CMB-C2B	-2.40	1.46	1.51
22	O	314	CLA	CMB-C2B	-2.40	1.46	1.51
22	B	825	CLA	CMB-C2B	-2.40	1.46	1.51
22	B	824	CLA	CMB-C2B	-2.40	1.46	1.51
22	B	822	CLA	CMB-C2B	-2.40	1.46	1.51
22	L	403	CLA	CMB-C2B	-2.40	1.46	1.51
22	N	602	CLA	CMB-C2B	-2.40	1.46	1.51
26	A	845	LHG	O8-C6	-2.40	1.39	1.45
22	B	806	CLA	CMB-C2B	-2.40	1.46	1.51
22	X	402	CLA	CMB-C2B	-2.40	1.46	1.51
22	A	833	CLA	CMB-C2B	-2.40	1.46	1.51
26	O	318	LHG	O8-C6	-2.40	1.39	1.45
22	R	610	CLA	CMB-C2B	-2.40	1.46	1.51
22	U	420	CLA	CMB-C2B	-2.40	1.46	1.51
22	N	601	CLA	CMB-C2B	-2.40	1.46	1.51
22	Q	612	CLA	CMB-C2B	-2.40	1.46	1.51
31	U	408	CHL	C2C-C1C	2.39	1.49	1.44
22	A	852	CLA	CMB-C2B	-2.39	1.46	1.51
22	O	305	CLA	CMB-C2B	-2.39	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	X	408	CLA	CMB-C2B	-2.39	1.46	1.51
22	T	604	CLA	CMB-C2B	-2.39	1.46	1.51
22	B	811	CLA	CMB-C2B	-2.39	1.46	1.51
22	R	605	CLA	CMB-C2B	-2.39	1.46	1.51
26	W	420	LHG	O8-C6	-2.39	1.39	1.45
22	X	413	CLA	CMB-C2B	-2.39	1.46	1.51
22	L	404	CLA	CMB-C2B	-2.39	1.46	1.51
22	O	313	CLA	CMB-C2B	-2.39	1.46	1.51
22	O	319	CLA	CMB-C2B	-2.39	1.46	1.51
22	H	310	CLA	CMB-C2B	-2.39	1.46	1.51
22	L	417	CLA	CMB-C2B	-2.39	1.46	1.51
22	N	605	CLA	CMB-C2B	-2.39	1.46	1.51
22	A	815	CLA	CMB-C2B	-2.38	1.46	1.51
22	H	304	CLA	CMB-C2B	-2.38	1.46	1.51
22	K	612	CLA	CMB-C2B	-2.38	1.46	1.51
22	B	823	CLA	CMB-C2B	-2.38	1.46	1.51
22	P	610	CLA	CMB-C2B	-2.38	1.46	1.51
22	A	827	CLA	CMB-C2B	-2.38	1.46	1.51
22	V	601	CLA	CMB-C2B	-2.38	1.46	1.51
22	V	611	CLA	CMB-C2B	-2.38	1.46	1.51
26	O	323	LHG	O8-C23	2.38	1.40	1.33
22	S	601	CLA	CMB-C2B	-2.38	1.46	1.51
22	N	603	CLA	CMB-C2B	-2.38	1.46	1.51
22	X	411	CLA	CMB-C2B	-2.38	1.46	1.51
22	B	829	CLA	CMD-C2D	-2.38	1.45	1.50
22	G	609	CLA	CMB-C2B	-2.38	1.46	1.51
22	X	417	CLA	CMB-C2B	-2.38	1.46	1.51
22	P	605	CLA	CMB-C2B	-2.38	1.46	1.51
22	B	814	CLA	CMB-C2B	-2.38	1.46	1.51
22	X	407	CLA	CMB-C2B	-2.38	1.46	1.51
22	X	409	CLA	CMB-C2B	-2.38	1.46	1.51
22	B	831	CLA	CMB-C2B	-2.38	1.46	1.51
22	O	307	CLA	CMB-C2B	-2.38	1.46	1.51
22	Q	617	CLA	CMB-C2B	-2.38	1.46	1.51
26	O	321	LHG	O8-C23	2.38	1.40	1.33
26	R	614	LHG	O8-C6	-2.37	1.39	1.45
22	H	305	CLA	CMB-C2B	-2.37	1.46	1.51
22	Q	611	CLA	CMB-C2B	-2.37	1.46	1.51
22	S	602	CLA	CMB-C2B	-2.37	1.46	1.51
22	T	603	CLA	CMB-C2B	-2.37	1.46	1.51
22	A	814	CLA	CMB-C2B	-2.37	1.46	1.51
22	F	404	CLA	CMB-C2B	-2.37	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	V	602	CLA	CMB-C2B	-2.37	1.46	1.51
22	L	408	CLA	CMD-C2D	-2.37	1.45	1.50
22	N	608	CLA	CMB-C2B	-2.37	1.46	1.51
22	P	604	CLA	CMB-C2B	-2.37	1.46	1.51
22	A	804	CLA	CMB-C2B	-2.37	1.46	1.51
22	H	308	CLA	CMB-C2B	-2.37	1.46	1.51
22	U	404	CLA	CMB-C2B	-2.37	1.46	1.51
22	R	603	CLA	CMB-C2B	-2.37	1.46	1.51
22	B	839	CLA	CMB-C2B	-2.37	1.46	1.51
22	B	830	CLA	CMD-C2D	-2.37	1.45	1.50
22	K	611	CLA	CMB-C2B	-2.36	1.46	1.51
22	S	607	CLA	CMB-C2B	-2.36	1.46	1.51
22	O	308	CLA	CMB-C2B	-2.36	1.46	1.51
26	U	419	LHG	O8-C6	-2.36	1.39	1.45
22	W	419	CLA	CMB-C2B	-2.36	1.46	1.51
22	A	832	CLA	CMB-C2B	-2.36	1.46	1.51
22	S	606	CLA	CMB-C2B	-2.36	1.46	1.51
22	W	404	CLA	CMB-C2B	-2.36	1.46	1.51
26	P	601	LHG	O8-C23	2.36	1.40	1.33
22	G	604	CLA	CMB-C2B	-2.36	1.46	1.51
22	P	606	CLA	CMB-C2B	-2.36	1.46	1.51
22	A	803	CLA	CMB-C2B	-2.36	1.46	1.51
22	N	611	CLA	CMB-C2B	-2.36	1.46	1.51
22	A	816	CLA	CMD-C2D	-2.36	1.45	1.50
22	A	811	CLA	CMB-C2B	-2.36	1.46	1.51
22	I	607	CLA	CMB-C2B	-2.35	1.46	1.51
22	I	609	CLA	CMB-C2B	-2.35	1.46	1.51
22	V	603	CLA	CMB-C2B	-2.35	1.46	1.51
22	L	410	CLA	CMB-C2B	-2.35	1.46	1.51
22	U	411	CLA	CMB-C2B	-2.35	1.46	1.51
26	X	420	LHG	O8-C23	2.35	1.40	1.33
22	O	312	CLA	CMB-C2B	-2.35	1.46	1.51
26	X	420	LHG	O8-C6	-2.35	1.39	1.45
22	G	611	CLA	CMB-C2B	-2.35	1.46	1.51
22	B	835	CLA	CMB-C2B	-2.35	1.46	1.51
22	Q	603	CLA	CMB-C2B	-2.35	1.46	1.51
22	A	839	CLA	CMB-C2B	-2.35	1.46	1.51
26	L	416	LHG	O8-C23	2.34	1.40	1.33
22	R	602	CLA	CMB-C2B	-2.34	1.46	1.51
22	A	805	CLA	CMB-C2B	-2.34	1.46	1.51
22	B	820	CLA	CMB-C2B	-2.34	1.46	1.51
22	T	609	CLA	CMB-C2B	-2.34	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	S	603	CLA	CMB-C2B	-2.34	1.46	1.51
26	O	324	LHG	O8-C6	-2.34	1.39	1.45
26	K	619	LHG	O8-C23	2.33	1.40	1.33
26	K	619	LHG	O8-C6	-2.33	1.39	1.45
26	B	848	LHG	O8-C23	2.33	1.40	1.33
22	H	312	CLA	CMB-C2B	-2.33	1.46	1.51
22	R	606	CLA	CMB-C2B	-2.33	1.46	1.51
22	N	609	CLA	CMB-C2B	-2.33	1.46	1.51
26	B	848	LHG	O8-C6	-2.33	1.39	1.45
22	K	607	CLA	CMD-C2D	-2.33	1.45	1.50
22	P	611	CLA	CMB-C2B	-2.33	1.46	1.51
26	B	851	LHG	O8-C23	2.32	1.40	1.33
26	N	614	LHG	O7-C7	2.32	1.40	1.34
26	O	318	LHG	O7-C7	2.32	1.40	1.34
26	O	321	LHG	O8-C6	-2.32	1.39	1.45
26	S	613	LHG	O8-C23	2.32	1.40	1.33
26	B	851	LHG	O8-C6	-2.32	1.39	1.45
26	K	619	LHG	O7-C7	2.32	1.40	1.34
26	O	324	LHG	O8-C23	2.32	1.40	1.33
26	P	601	LHG	O8-C6	-2.32	1.39	1.45
26	O	323	LHG	O8-C6	-2.32	1.39	1.45
22	S	614	CLA	CMB-C2B	-2.32	1.46	1.51
22	A	801	CLA	CMD-C2D	-2.32	1.45	1.50
26	L	416	LHG	O8-C6	-2.32	1.39	1.45
22	K	608	CLA	CMC-C2C	-2.32	1.45	1.50
26	Q	616	LHG	O7-C7	2.31	1.40	1.34
26	B	851	LHG	O7-C7	2.31	1.40	1.34
22	I	608	CLA	CMD-C2D	-2.31	1.45	1.50
26	W	420	LHG	O8-C23	2.31	1.40	1.33
22	R	604	CLA	CMB-C2B	-2.31	1.46	1.51
26	A	846	LHG	O8-C23	2.31	1.40	1.33
22	R	611	CLA	CMB-C2B	-2.31	1.46	1.51
26	N	614	LHG	O8-C23	2.31	1.40	1.33
31	X	406	CHL	C1D-C2D	-2.31	1.40	1.45
26	Q	616	LHG	O8-C23	2.31	1.40	1.33
26	G	614	LHG	O7-C7	2.30	1.40	1.34
22	Q	605	CLA	CMB-C2B	-2.30	1.46	1.51
22	P	607	CLA	CMB-C2B	-2.30	1.46	1.51
26	U	419	LHG	O8-C23	2.30	1.40	1.33
22	R	609	CLA	CMB-C2B	-2.30	1.46	1.51
22	B	802	CLA	C3B-CAB	-2.30	1.43	1.47
26	S	613	LHG	O8-C6	-2.30	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	O	323	LHG	O7-C7	2.30	1.40	1.34
22	K	607	CLA	C3B-C2B	-2.30	1.37	1.40
26	H	316	LHG	O8-C23	2.30	1.40	1.33
26	N	616	LHG	O7-C7	2.30	1.40	1.34
26	O	318	LHG	O8-C23	2.30	1.40	1.33
22	V	607	CLA	CMB-C2B	-2.29	1.46	1.51
26	H	316	LHG	O8-C6	-2.29	1.39	1.45
31	W	422	CHL	C1D-C2D	-2.29	1.40	1.45
26	G	614	LHG	O8-C23	2.29	1.40	1.33
26	A	845	LHG	O7-C7	2.29	1.40	1.34
26	R	614	LHG	O7-C7	2.29	1.40	1.34
26	N	616	LHG	O8-C23	2.29	1.40	1.33
31	U	408	CHL	C1D-C2D	-2.29	1.40	1.45
26	R	614	LHG	O8-C23	2.29	1.40	1.33
26	T	614	LHG	O8-C23	2.28	1.40	1.33
26	X	420	LHG	O7-C7	2.28	1.40	1.34
26	N	614	LHG	O8-C6	-2.27	1.40	1.45
28	F	408	LMG	C4-C5	2.27	1.57	1.53
31	X	406	CHL	C2C-C1C	2.27	1.49	1.44
26	H	316	LHG	O7-C7	2.27	1.40	1.34
26	B	848	LHG	O7-C7	2.27	1.40	1.34
24	F	406	DD6	O1-C20	-2.27	1.43	1.46
26	S	613	LHG	O7-C7	2.27	1.40	1.34
26	N	616	LHG	O8-C6	-2.26	1.40	1.45
22	S	605	CLA	CMD-C2D	-2.26	1.46	1.50
24	Q	615	DD6	O1-C20	-2.26	1.43	1.46
22	B	802	CLA	CMC-C2C	-2.26	1.46	1.50
26	A	846	LHG	O7-C7	2.26	1.40	1.34
26	P	601	LHG	O7-C5	-2.26	1.40	1.46
26	T	614	LHG	O7-C7	2.25	1.40	1.34
26	O	321	LHG	O7-C7	2.25	1.40	1.34
22	B	802	CLA	C3B-C2B	-2.25	1.37	1.40
26	A	845	LHG	O8-C23	2.25	1.39	1.33
26	P	601	LHG	O7-C7	2.25	1.40	1.34
26	L	416	LHG	O7-C7	2.25	1.40	1.34
22	A	801	CLA	CMC-C2C	-2.24	1.46	1.50
24	A	859	DD6	O1-C20	-2.24	1.43	1.46
24	H	315	DD6	O1-C20	-2.23	1.43	1.46
31	W	408	CHL	C1D-C2D	-2.23	1.40	1.45
26	K	616	LHG	O7-C5	-2.23	1.41	1.46
26	B	848	LHG	O7-C5	-2.23	1.41	1.46
22	P	606	CLA	CMD-C2D	-2.23	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	V	606	CHL	C1D-C2D	-2.22	1.40	1.45
24	S	611	DD6	O1-C20	-2.22	1.43	1.46
26	K	616	LHG	O8-C23	2.22	1.39	1.33
26	A	846	LHG	O7-C5	-2.22	1.41	1.46
26	N	614	LHG	O7-C5	-2.22	1.41	1.46
31	U	407	CHL	C1D-C2D	-2.22	1.40	1.45
22	L	406	CLA	CMD-C2D	-2.22	1.46	1.50
22	A	844	CLA	CMC-C2C	-2.21	1.46	1.50
26	R	614	LHG	O7-C5	-2.21	1.41	1.46
22	S	605	CLA	CMC-C2C	-2.21	1.46	1.50
22	P	602	CLA	CMD-C2D	-2.21	1.46	1.50
26	G	614	LHG	O7-C5	-2.20	1.41	1.46
24	T	612	DD6	O1-C20	-2.20	1.43	1.46
22	A	801	CLA	C3B-C2B	-2.20	1.37	1.40
26	L	416	LHG	O7-C5	-2.19	1.41	1.46
22	A	816	CLA	C3B-CAB	-2.19	1.43	1.47
22	L	408	CLA	CMC-C2C	-2.19	1.46	1.50
31	V	605	CHL	C2C-C1C	2.19	1.49	1.44
24	G	613	DD6	O1-C20	-2.19	1.43	1.46
22	L	408	CLA	C3B-C2B	-2.19	1.37	1.40
22	A	819	CLA	CMD-C2D	-2.19	1.46	1.50
26	K	616	LHG	O7-C7	2.19	1.40	1.34
26	T	614	LHG	O7-C5	-2.19	1.41	1.46
31	W	407	CHL	C1D-C2D	-2.19	1.41	1.45
26	X	420	LHG	O7-C5	-2.19	1.41	1.46
26	Q	616	LHG	O7-C5	-2.19	1.41	1.46
26	A	845	LHG	O7-C5	-2.19	1.41	1.46
31	W	422	CHL	C2C-C1C	2.18	1.49	1.44
22	B	830	CLA	CMC-C2C	-2.18	1.46	1.50
22	B	830	CLA	C3B-CAB	-2.18	1.43	1.47
26	K	619	LHG	O7-C5	-2.18	1.41	1.46
24	O	317	DD6	O1-C20	-2.18	1.43	1.46
26	O	321	LHG	O7-C5	-2.18	1.41	1.46
31	V	605	CHL	C1D-C2D	-2.18	1.41	1.45
26	H	316	LHG	O7-C5	-2.17	1.41	1.46
26	N	616	LHG	O7-C5	-2.16	1.41	1.46
26	S	613	LHG	O7-C5	-2.16	1.41	1.46
22	B	820	CLA	CMD-C2D	-2.16	1.46	1.50
24	W	418	DD6	O1-C20	-2.16	1.43	1.46
22	B	829	CLA	C3B-CAB	-2.16	1.43	1.47
24	H	314	DD6	O1-C20	-2.15	1.43	1.46
22	A	819	CLA	CMC-C2C	-2.15	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	P	613	DD6	O1-C20	-2.15	1.43	1.46
26	B	851	LHG	O7-C5	-2.15	1.41	1.46
30	V	618	SQD	O8-S	2.15	1.55	1.47
22	N	608	CLA	CMD-C2D	-2.15	1.46	1.50
22	K	607	CLA	CMC-C2C	-2.14	1.46	1.50
24	X	414	DD6	O1-C20	-2.14	1.43	1.46
33	A	802	CL0	C1B-CHB	2.14	1.46	1.41
22	P	603	CLA	C1B-NB	2.14	1.37	1.35
22	O	310	CLA	CMD-C2D	-2.14	1.46	1.50
24	B	841	DD6	O1-C20	-2.14	1.43	1.46
24	V	615	DD6	O1-C20	-2.13	1.43	1.46
26	O	318	LHG	O7-C5	-2.13	1.41	1.46
24	G	612	DD6	O1-C20	-2.13	1.43	1.46
24	R	612	DD6	O1-C20	-2.13	1.43	1.46
31	W	408	CHL	C2C-C1C	2.13	1.49	1.44
22	B	829	CLA	CMC-C2C	-2.13	1.46	1.50
26	K	619	LHG	P-O6	2.12	1.67	1.59
22	H	304	CLA	CMD-C2D	-2.12	1.46	1.50
24	V	614	DD6	O1-C20	-2.12	1.43	1.46
22	G	609	CLA	CMD-C2D	-2.12	1.46	1.50
33	A	802	CL0	C1C-NC	-2.11	1.34	1.37
24	N	613	DD6	O1-C20	-2.11	1.43	1.46
22	R	603	CLA	CMD-C2D	-2.11	1.46	1.50
24	K	614	DD6	O1-C20	-2.11	1.43	1.46
22	G	603	CLA	CMD-C2D	-2.11	1.46	1.50
25	O	304	DGD	O5D-C1E	2.11	1.43	1.40
30	O	302	SQD	O8-S	2.11	1.55	1.47
24	Q	614	DD6	O1-C20	-2.11	1.43	1.46
30	K	621	SQD	O8-S	2.10	1.55	1.47
22	A	816	CLA	CMC-C2C	-2.10	1.46	1.50
22	L	404	CLA	CMD-C2D	-2.10	1.46	1.50
22	W	405	CLA	CMD-C2D	-2.10	1.46	1.50
30	F	407	SQD	O8-S	2.10	1.55	1.47
24	N	612	DD6	O1-C20	-2.10	1.43	1.46
24	X	401	DD6	O1-C20	-2.10	1.43	1.46
31	U	407	CHL	C2C-C1C	2.10	1.49	1.44
22	K	604	CLA	CMD-C2D	-2.09	1.46	1.50
24	I	613	DD6	O1-C20	-2.09	1.43	1.46
26	O	323	LHG	P-O6	2.09	1.67	1.59
26	O	321	LHG	P-O6	2.09	1.67	1.59
26	B	851	LHG	P-O6	2.09	1.67	1.59
22	B	807	CLA	CMC-C2C	-2.09	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	T	602	CLA	CMD-C2D	-2.09	1.46	1.50
26	H	316	LHG	P-O6	2.09	1.67	1.59
26	N	616	LHG	P-O6	2.09	1.67	1.59
26	N	614	LHG	P-O6	2.09	1.67	1.59
26	P	601	LHG	P-O6	2.09	1.67	1.59
26	O	323	LHG	O7-C5	-2.09	1.41	1.46
22	Q	601	CLA	CMD-C2D	-2.08	1.46	1.50
22	X	407	CLA	CMD-C2D	-2.08	1.46	1.50
22	B	807	CLA	CMD-C2D	-2.08	1.46	1.50
22	P	602	CLA	CMC-C2C	-2.08	1.46	1.50
22	H	305	CLA	CMD-C2D	-2.08	1.46	1.50
22	I	602	CLA	CMD-C2D	-2.08	1.46	1.50
22	K	606	CLA	CMD-C2D	-2.08	1.46	1.50
22	B	833	CLA	CMD-C2D	-2.08	1.46	1.50
22	F	405	CLA	CMD-C2D	-2.08	1.46	1.50
22	K	610	CLA	CMD-C2D	-2.07	1.46	1.50
22	P	607	CLA	CMC-C2C	-2.07	1.46	1.50
22	T	603	CLA	CMD-C2D	-2.07	1.46	1.50
22	X	404	CLA	CMD-C2D	-2.07	1.46	1.50
26	O	324	LHG	P-O6	2.07	1.67	1.59
24	O	316	DD6	O1-C20	-2.07	1.43	1.46
24	R	613	DD6	O1-C20	-2.07	1.43	1.46
22	Q	605	CLA	CMD-C2D	-2.07	1.46	1.50
22	K	613	CLA	CMD-C2D	-2.07	1.46	1.50
31	W	408	CHL	C3D-C4D	-2.07	1.39	1.44
22	A	823	CLA	CMD-C2D	-2.07	1.46	1.50
22	A	840	CLA	CMD-C2D	-2.07	1.46	1.50
22	I	605	CLA	CMD-C2D	-2.06	1.46	1.50
24	U	416	DD6	O1-C20	-2.06	1.43	1.46
31	W	407	CHL	C3D-C4D	-2.06	1.39	1.44
22	B	829	CLA	MG-ND	-2.06	2.01	2.05
26	R	614	LHG	P-O6	2.06	1.67	1.59
22	G	607	CLA	CMD-C2D	-2.06	1.46	1.50
22	A	817	CLA	CMD-C2D	-2.06	1.46	1.50
22	R	605	CLA	CMD-C2D	-2.06	1.46	1.50
26	U	419	LHG	P-O6	2.06	1.67	1.59
24	L	414	DD6	O1-C20	-2.06	1.43	1.46
22	B	804	CLA	CMD-C2D	-2.06	1.46	1.50
22	L	409	CLA	CMD-C2D	-2.06	1.46	1.50
22	G	606	CLA	CMD-C2D	-2.06	1.46	1.50
22	R	607	CLA	CMC-C2C	-2.06	1.46	1.50
22	H	310	CLA	CMD-C2D	-2.06	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	S	612	DD6	O1-C20	-2.06	1.43	1.46
26	S	613	LHG	P-O6	2.06	1.67	1.59
26	G	614	LHG	P-O6	2.06	1.67	1.59
22	O	307	CLA	CMD-C2D	-2.05	1.46	1.50
22	Q	603	CLA	CMD-C2D	-2.05	1.46	1.50
24	I	612	DD6	O1-C20	-2.05	1.43	1.46
22	B	834	CLA	CMD-C2D	-2.05	1.46	1.50
22	B	835	CLA	CMD-C2D	-2.05	1.46	1.50
22	S	606	CLA	CMD-C2D	-2.05	1.46	1.50
22	B	822	CLA	CMD-C2D	-2.05	1.46	1.50
22	B	827	CLA	CMD-C2D	-2.05	1.46	1.50
22	L	412	CLA	CMD-C2D	-2.05	1.46	1.50
22	Q	611	CLA	CMD-C2D	-2.05	1.46	1.50
32	V	616	NEX	C1-C6	-2.05	1.51	1.54
22	N	605	CLA	CMD-C2D	-2.05	1.46	1.50
22	S	603	CLA	CMD-C2D	-2.05	1.46	1.50
24	W	417	DD6	O1-C20	-2.05	1.43	1.46
22	A	838	CLA	CMD-C2D	-2.05	1.46	1.50
22	B	806	CLA	CMD-C2D	-2.05	1.46	1.50
22	B	837	CLA	CMD-C2D	-2.05	1.46	1.50
22	O	308	CLA	CMD-C2D	-2.05	1.46	1.50
22	A	830	CLA	CMD-C2D	-2.05	1.46	1.50
26	O	318	LHG	P-O6	2.05	1.67	1.59
22	B	838	CLA	C3B-C2B	-2.05	1.37	1.40
22	O	309	CLA	CMD-C2D	-2.05	1.46	1.50
22	K	617	CLA	CMD-C2D	-2.05	1.46	1.50
26	X	420	LHG	P-O6	2.05	1.67	1.59
22	S	615	CLA	CMD-C2D	-2.05	1.46	1.50
22	A	816	CLA	C3B-C2B	-2.04	1.37	1.40
22	O	312	CLA	CMD-C2D	-2.04	1.46	1.50
22	A	812	CLA	CMD-C2D	-2.04	1.46	1.50
24	W	416	DD6	O1-C20	-2.04	1.43	1.46
22	I	606	CLA	CMD-C2D	-2.04	1.46	1.50
22	Q	610	CLA	CMD-C2D	-2.04	1.46	1.50
22	Q	612	CLA	CMD-C2D	-2.04	1.46	1.50
26	A	845	LHG	P-O6	2.04	1.67	1.59
22	K	609	CLA	CMD-C2D	-2.04	1.46	1.50
24	U	417	DD6	O1-C20	-2.04	1.43	1.46
22	F	403	CLA	CMD-C2D	-2.04	1.46	1.50
22	L	411	CLA	CMD-C2D	-2.04	1.46	1.50
22	U	409	CLA	CMD-C2D	-2.04	1.46	1.50
22	X	411	CLA	CMD-C2D	-2.04	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	832	CLA	CMD-C2D	-2.04	1.46	1.50
22	F	404	CLA	CMD-C2D	-2.04	1.46	1.50
22	X	403	CLA	CMD-C2D	-2.04	1.46	1.50
22	B	816	CLA	CMD-C2D	-2.04	1.46	1.50
22	B	818	CLA	CMD-C2D	-2.04	1.46	1.50
33	A	802	CL0	MG-NA	-2.04	2.01	2.06
22	A	831	CLA	CMD-C2D	-2.04	1.46	1.50
22	B	859	CLA	CMD-C2D	-2.04	1.46	1.50
22	U	410	CLA	CMD-C2D	-2.03	1.46	1.50
26	A	846	LHG	P-O6	2.03	1.67	1.59
22	B	805	CLA	CMD-C2D	-2.03	1.46	1.50
22	I	610	CLA	CMD-C2D	-2.03	1.46	1.50
22	A	808	CLA	CMD-C2D	-2.03	1.46	1.50
26	T	614	LHG	P-O6	2.03	1.67	1.59
22	W	409	CLA	CMD-C2D	-2.03	1.46	1.50
22	G	602	CLA	CMD-C2D	-2.03	1.46	1.50
26	B	848	LHG	P-O6	2.03	1.67	1.59
22	B	809	CLA	CMD-C2D	-2.03	1.46	1.50
26	W	420	LHG	O7-C5	-2.03	1.41	1.46
28	H	317	LMG	O7-C8	-2.03	1.41	1.46
22	O	313	CLA	CMD-C2D	-2.03	1.46	1.50
22	P	609	CLA	CMD-C2D	-2.03	1.46	1.50
22	X	419	CLA	CMD-C2D	-2.03	1.46	1.50
22	Q	617	CLA	CMD-C2D	-2.03	1.46	1.50
22	P	605	CLA	CMD-C2D	-2.03	1.46	1.50
24	L	413	DD6	O1-C20	-2.03	1.43	1.46
22	B	824	CLA	CMD-C2D	-2.03	1.46	1.50
22	A	814	CLA	CMD-C2D	-2.03	1.46	1.50
22	H	309	CLA	CMD-C2D	-2.03	1.46	1.50
22	A	821	CLA	CMD-C2D	-2.03	1.46	1.50
22	B	810	CLA	CMD-C2D	-2.03	1.46	1.50
22	H	313	CLA	CMD-C2D	-2.03	1.46	1.50
22	O	314	CLA	CMD-C2D	-2.03	1.46	1.50
22	A	835	CLA	CMD-C2D	-2.03	1.46	1.50
22	K	612	CLA	CMD-C2D	-2.03	1.46	1.50
22	W	402	CLA	CMD-C2D	-2.03	1.46	1.50
22	W	413	CLA	CMD-C2D	-2.03	1.46	1.50
22	B	838	CLA	CMD-C2D	-2.03	1.46	1.50
31	V	606	CHL	C3D-C4D	-2.03	1.39	1.44
22	Q	604	CLA	C3B-CAB	-2.03	1.43	1.47
31	U	408	CHL	C3D-C4D	-2.03	1.39	1.44
22	A	829	CLA	CMD-C2D	-2.02	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	I	603	CLA	CMD-C2D	-2.02	1.46	1.50
22	R	602	CLA	CMD-C2D	-2.02	1.46	1.50
22	W	415	CLA	CMD-C2D	-2.02	1.46	1.50
22	A	806	CLA	CMD-C2D	-2.02	1.46	1.50
24	A	847	DD6	O1-C20	-2.02	1.43	1.46
22	P	608	CLA	CMC-C2C	-2.02	1.46	1.50
22	V	611	CLA	CMD-C2D	-2.02	1.46	1.50
22	W	414	CLA	CMD-C2D	-2.02	1.46	1.50
22	X	412	CLA	CMD-C2D	-2.02	1.46	1.50
22	A	844	CLA	CMD-C2D	-2.02	1.46	1.50
22	A	832	CLA	CMD-C2D	-2.02	1.46	1.50
22	N	606	CLA	CMD-C2D	-2.02	1.46	1.50
22	K	602	CLA	CMD-C2D	-2.02	1.46	1.50
22	O	306	CLA	CMD-C2D	-2.02	1.46	1.50
22	G	604	CLA	CMD-C2D	-2.02	1.46	1.50
22	P	610	CLA	CMD-C2D	-2.02	1.46	1.50
22	V	603	CLA	CMD-C2D	-2.02	1.46	1.50
22	A	813	CLA	CMD-C2D	-2.02	1.46	1.50
22	B	814	CLA	CMD-C2D	-2.02	1.46	1.50
22	I	609	CLA	CMD-C2D	-2.02	1.46	1.50
22	L	403	CLA	CMD-C2D	-2.02	1.46	1.50
22	N	609	CLA	CMD-C2D	-2.02	1.46	1.50
22	O	305	CLA	CMD-C2D	-2.02	1.46	1.50
22	L	405	CLA	CMD-C2D	-2.02	1.46	1.50
22	R	610	CLA	CMD-C2D	-2.02	1.46	1.50
22	T	605	CLA	CMD-C2D	-2.02	1.46	1.50
22	N	603	CLA	CMD-C2D	-2.02	1.46	1.50
22	T	601	CLA	CMD-C2D	-2.02	1.46	1.50
22	R	601	CLA	CMD-C2D	-2.02	1.46	1.50
22	W	410	CLA	CMD-C2D	-2.02	1.46	1.50
22	A	826	CLA	CMD-C2D	-2.02	1.46	1.50
22	I	607	CLA	CMC-C2C	-2.02	1.46	1.50
22	J	102	CLA	CMD-C2D	-2.02	1.46	1.50
22	O	315	CLA	CMD-C2D	-2.01	1.46	1.50
22	P	607	CLA	CMD-C2D	-2.01	1.46	1.50
22	S	614	CLA	CMD-C2D	-2.01	1.46	1.50
24	T	613	DD6	O1-C20	-2.01	1.43	1.46
22	B	828	CLA	CMD-C2D	-2.01	1.46	1.50
26	Q	616	LHG	P-O6	2.01	1.67	1.59
32	U	418	NEX	C1-C6	-2.01	1.51	1.54
22	H	306	CLA	CMD-C2D	-2.01	1.46	1.50
22	R	608	CLA	CMD-C2D	-2.01	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	A	802	CL0	C4D-CHA	2.01	1.45	1.38
22	U	403	CLA	CMD-C2D	-2.01	1.46	1.50
22	X	408	CLA	CMD-C2D	-2.01	1.46	1.50
22	I	601	CLA	CMD-C2D	-2.01	1.46	1.50
22	A	833	CLA	CMD-C2D	-2.01	1.46	1.50
28	Q	602	LMG	O7-C8	-2.01	1.41	1.46
22	A	837	CLA	CMD-C2D	-2.01	1.46	1.50
22	N	602	CLA	CMD-C2D	-2.01	1.46	1.50
22	A	809	CLA	CMD-C2D	-2.01	1.46	1.50
22	A	811	CLA	CMD-C2D	-2.01	1.46	1.50
22	B	815	CLA	CMD-C2D	-2.01	1.46	1.50
22	S	604	CLA	CMD-C2D	-2.01	1.46	1.50
22	W	412	CLA	CMD-C2D	-2.01	1.46	1.50
22	H	303	CLA	CMD-C2D	-2.01	1.46	1.50
22	O	311	CLA	CMD-C2D	-2.01	1.46	1.50
22	N	601	CLA	CMD-C2D	-2.01	1.46	1.50
22	N	604	CLA	CMD-C2D	-2.01	1.46	1.50
22	V	607	CLA	CMD-C2D	-2.01	1.46	1.50
22	A	803	CLA	CMC-C2C	-2.01	1.46	1.50
22	U	405	CLA	CMD-C2D	-2.01	1.46	1.50
22	S	605	CLA	C3B-C2B	-2.01	1.37	1.40
22	W	403	CLA	CMD-C2D	-2.01	1.46	1.50
26	W	420	LHG	P-O6	2.00	1.67	1.59
22	A	805	CLA	CMD-C2D	-2.00	1.46	1.50
22	A	824	CLA	CMD-C2D	-2.00	1.46	1.50
22	A	834	CLA	CMD-C2D	-2.00	1.46	1.50
22	A	841	CLA	CMD-C2D	-2.00	1.46	1.50
22	U	404	CLA	CMD-C2D	-2.00	1.46	1.50
22	X	409	CLA	CMD-C2D	-2.00	1.46	1.50
22	L	407	CLA	CMD-C2D	-2.00	1.46	1.50
22	U	420	CLA	CMD-C2D	-2.00	1.46	1.50
22	W	411	CLA	CMD-C2D	-2.00	1.46	1.50
22	A	803	CLA	CMD-C2D	-2.00	1.46	1.50
26	L	416	LHG	P-O6	2.00	1.67	1.59
22	T	609	CLA	CMD-C2D	-2.00	1.46	1.50
22	B	839	CLA	CMD-C2D	-2.00	1.46	1.50
22	Q	609	CLA	CMD-C2D	-2.00	1.46	1.50
22	L	402	CLA	CMD-C2D	-2.00	1.46	1.50
22	B	826	CLA	CMD-C2D	-2.00	1.46	1.50

All (3048) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	843	BCR	C40-C30-C25	-13.35	88.64	110.30
24	P	612	DD6	C9-C10-C11	-9.93	113.14	127.31
24	P	612	DD6	C4-C5-C6	-9.08	114.35	127.31
24	X	416	DD6	C4-C5-C6	-8.39	115.34	127.31
21	B	843	BCR	C40-C30-C39	-8.38	82.82	108.53
24	A	858	DD6	C4-C5-C6	-7.70	116.32	127.31
24	P	612	DD6	C14-C13-C11	-7.43	114.00	125.53
22	A	839	CLA	C4A-NA-C1A	7.36	110.02	106.71
22	B	820	CLA	C4A-NA-C1A	7.31	109.99	106.71
22	B	829	CLA	C4A-NA-C1A	7.22	109.95	106.71
22	B	804	CLA	C4A-NA-C1A	7.18	109.93	106.71
22	K	607	CLA	C4A-NA-C1A	7.18	109.93	106.71
22	P	611	CLA	C4A-NA-C1A	7.17	109.93	106.71
22	V	613	CLA	C4A-NA-C1A	7.16	109.93	106.71
22	B	819	CLA	C4A-NA-C1A	7.07	109.88	106.71
22	B	835	CLA	C4A-NA-C1A	7.06	109.88	106.71
22	A	807	CLA	C4A-NA-C1A	7.03	109.87	106.71
22	N	610	CLA	C4A-NA-C1A	7.03	109.87	106.71
24	A	858	DD6	C9-C10-C11	-7.03	117.28	127.31
22	R	607	CLA	C4A-NA-C1A	7.02	109.86	106.71
22	P	602	CLA	C4A-NA-C1A	7.01	109.86	106.71
22	I	609	CLA	C4A-NA-C1A	6.93	109.82	106.71
22	O	310	CLA	C4A-NA-C1A	6.86	109.79	106.71
22	B	802	CLA	C4A-NA-C1A	6.85	109.78	106.71
22	B	824	CLA	C4A-NA-C1A	6.79	109.76	106.71
22	L	409	CLA	C4A-NA-C1A	6.76	109.75	106.71
22	U	403	CLA	C4A-NA-C1A	6.76	109.75	106.71
22	A	844	CLA	C4A-NA-C1A	6.76	109.74	106.71
22	L	417	CLA	C4A-NA-C1A	6.74	109.74	106.71
22	A	841	CLA	C4A-NA-C1A	6.74	109.73	106.71
22	B	837	CLA	C4A-NA-C1A	6.73	109.73	106.71
22	B	809	CLA	C4A-NA-C1A	6.72	109.73	106.71
22	U	413	CLA	C4A-NA-C1A	6.72	109.72	106.71
22	L	405	CLA	C4A-NA-C1A	6.71	109.72	106.71
22	A	821	CLA	C4A-NA-C1A	6.70	109.72	106.71
22	A	838	CLA	C4A-NA-C1A	6.70	109.72	106.71
22	P	610	CLA	C4A-NA-C1A	6.70	109.72	106.71
22	S	601	CLA	C4A-NA-C1A	6.69	109.72	106.71
22	O	309	CLA	C4A-NA-C1A	6.69	109.71	106.71
22	X	408	CLA	C4A-NA-C1A	6.67	109.70	106.71
22	L	404	CLA	C4A-NA-C1A	6.67	109.70	106.71
22	B	817	CLA	C4A-NA-C1A	6.66	109.70	106.71
22	Q	603	CLA	C4A-NA-C1A	6.66	109.70	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	826	CLA	C4A-NA-C1A	6.66	109.70	106.71
22	A	814	CLA	C4A-NA-C1A	6.65	109.70	106.71
22	B	838	CLA	C4A-NA-C1A	6.65	109.69	106.71
22	X	413	CLA	C4A-NA-C1A	6.65	109.69	106.71
22	K	611	CLA	C4A-NA-C1A	6.64	109.69	106.71
22	V	609	CLA	C4A-NA-C1A	6.64	109.69	106.71
22	B	803	CLA	C4A-NA-C1A	6.63	109.69	106.71
22	B	821	CLA	C4A-NA-C1A	6.63	109.69	106.71
22	L	402	CLA	C4A-NA-C1A	6.63	109.69	106.71
22	O	313	CLA	C4A-NA-C1A	6.62	109.68	106.71
22	Q	617	CLA	C4A-NA-C1A	6.62	109.68	106.71
22	T	606	CLA	C4A-NA-C1A	6.61	109.68	106.71
22	B	836	CLA	C4A-NA-C1A	6.60	109.67	106.71
22	U	414	CLA	C4A-NA-C1A	6.59	109.67	106.71
22	V	604	CLA	C4A-NA-C1A	6.59	109.67	106.71
22	S	605	CLA	C4A-NA-C1A	6.58	109.66	106.71
22	A	801	CLA	C4A-NA-C1A	6.58	109.66	106.71
22	B	825	CLA	C4A-NA-C1A	6.58	109.66	106.71
21	B	843	BCR	C39-C30-C25	6.57	120.95	110.30
22	I	608	CLA	C4A-NA-C1A	6.57	109.66	106.71
22	V	611	CLA	C4A-NA-C1A	6.57	109.66	106.71
22	B	823	CLA	C4A-NA-C1A	6.57	109.66	106.71
22	B	806	CLA	C4A-NA-C1A	6.56	109.66	106.71
22	H	311	CLA	C4A-NA-C1A	6.56	109.66	106.71
22	X	411	CLA	C4A-NA-C1A	6.56	109.66	106.71
22	F	403	CLA	C4A-NA-C1A	6.56	109.65	106.71
22	A	831	CLA	C4A-NA-C1A	6.56	109.65	106.71
22	A	819	CLA	C4A-NA-C1A	6.55	109.65	106.71
22	V	617	CLA	C4A-NA-C1A	6.55	109.65	106.71
22	G	608	CLA	C4A-NA-C1A	6.54	109.65	106.71
22	N	602	CLA	C4A-NA-C1A	6.54	109.65	106.71
22	P	608	CLA	C4A-NA-C1A	6.54	109.65	106.71
22	N	606	CLA	C4A-NA-C1A	6.54	109.65	106.71
22	W	410	CLA	C4A-NA-C1A	6.54	109.65	106.71
22	A	840	CLA	C4A-NA-C1A	6.54	109.64	106.71
22	O	319	CLA	C4A-NA-C1A	6.53	109.64	106.71
22	I	605	CLA	C4A-NA-C1A	6.53	109.64	106.71
22	T	604	CLA	C4A-NA-C1A	6.53	109.64	106.71
22	U	401	CLA	C4A-NA-C1A	6.53	109.64	106.71
22	B	807	CLA	C4A-NA-C1A	6.53	109.64	106.71
22	G	605	CLA	C4A-NA-C1A	6.53	109.64	106.71
22	U	412	CLA	C4A-NA-C1A	6.53	109.64	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	T	608	CLA	C4A-NA-C1A	6.53	109.64	106.71
22	N	605	CLA	C4A-NA-C1A	6.52	109.64	106.71
22	V	612	CLA	C4A-NA-C1A	6.52	109.64	106.71
22	A	826	CLA	C4A-NA-C1A	6.52	109.64	106.71
22	X	412	CLA	C4A-NA-C1A	6.52	109.64	106.71
22	X	402	CLA	C4A-NA-C1A	6.51	109.64	106.71
24	A	858	DD6	C3-C2-C1	-6.51	118.01	127.31
22	B	805	CLA	C4A-NA-C1A	6.51	109.63	106.71
22	H	318	CLA	C4A-NA-C1A	6.51	109.63	106.71
22	K	605	CLA	C4A-NA-C1A	6.51	109.63	106.71
22	K	606	CLA	C4A-NA-C1A	6.51	109.63	106.71
22	S	615	CLA	C4A-NA-C1A	6.51	109.63	106.71
22	H	308	CLA	C4A-NA-C1A	6.50	109.63	106.71
22	W	405	CLA	C4A-NA-C1A	6.50	109.63	106.71
22	A	828	CLA	C4A-NA-C1A	6.50	109.63	106.71
22	S	606	CLA	C4A-NA-C1A	6.50	109.63	106.71
22	T	601	CLA	C4A-NA-C1A	6.50	109.63	106.71
22	R	603	CLA	C4A-NA-C1A	6.49	109.63	106.71
22	S	614	CLA	C4A-NA-C1A	6.49	109.63	106.71
22	B	811	CLA	C4A-NA-C1A	6.49	109.62	106.71
22	H	309	CLA	C4A-NA-C1A	6.49	109.62	106.71
22	W	414	CLA	C4A-NA-C1A	6.49	109.62	106.71
22	X	419	CLA	C4A-NA-C1A	6.49	109.62	106.71
22	B	808	CLA	C4A-NA-C1A	6.48	109.62	106.71
22	I	610	CLA	C4A-NA-C1A	6.48	109.62	106.71
22	A	816	CLA	C4A-NA-C1A	6.48	109.62	106.71
22	I	606	CLA	C4A-NA-C1A	6.48	109.62	106.71
22	J	102	CLA	C4A-NA-C1A	6.48	109.62	106.71
22	O	305	CLA	C4A-NA-C1A	6.48	109.62	106.71
22	P	606	CLA	C4A-NA-C1A	6.48	109.62	106.71
22	W	404	CLA	C4A-NA-C1A	6.47	109.62	106.71
22	N	611	CLA	C4A-NA-C1A	6.47	109.61	106.71
22	T	611	CLA	C4A-NA-C1A	6.47	109.61	106.71
22	K	609	CLA	C4A-NA-C1A	6.47	109.61	106.71
22	N	608	CLA	C4A-NA-C1A	6.47	109.61	106.71
22	X	403	CLA	C4A-NA-C1A	6.46	109.61	106.71
22	H	305	CLA	C4A-NA-C1A	6.46	109.61	106.71
22	K	608	CLA	C4A-NA-C1A	6.46	109.61	106.71
22	T	610	CLA	C4A-NA-C1A	6.46	109.61	106.71
22	L	406	CLA	C4A-NA-C1A	6.46	109.61	106.71
22	S	602	CLA	C4A-NA-C1A	6.46	109.61	106.71
22	W	419	CLA	C4A-NA-C1A	6.46	109.61	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	833	CLA	C4A-NA-C1A	6.46	109.61	106.71
22	B	818	CLA	C4A-NA-C1A	6.45	109.61	106.71
22	Q	610	CLA	C4A-NA-C1A	6.45	109.61	106.71
22	R	605	CLA	C4A-NA-C1A	6.45	109.61	106.71
22	H	307	CLA	C4A-NA-C1A	6.45	109.61	106.71
22	R	611	CLA	C4A-NA-C1A	6.45	109.60	106.71
22	P	607	CLA	C4A-NA-C1A	6.44	109.60	106.71
22	X	410	CLA	C4A-NA-C1A	6.44	109.60	106.71
22	R	615	CLA	C4A-NA-C1A	6.44	109.60	106.71
22	G	601	CLA	C4A-NA-C1A	6.44	109.60	106.71
22	P	605	CLA	C4A-NA-C1A	6.43	109.60	106.71
22	W	412	CLA	C4A-NA-C1A	6.42	109.59	106.71
22	H	313	CLA	C4A-NA-C1A	6.42	109.59	106.71
22	S	604	CLA	C4A-NA-C1A	6.42	109.59	106.71
22	I	601	CLA	C4A-NA-C1A	6.42	109.59	106.71
22	V	602	CLA	C4A-NA-C1A	6.42	109.59	106.71
22	B	810	CLA	C4A-NA-C1A	6.41	109.59	106.71
22	B	816	CLA	C4A-NA-C1A	6.41	109.59	106.71
22	G	611	CLA	C4A-NA-C1A	6.41	109.59	106.71
22	Q	612	CLA	C4A-NA-C1A	6.40	109.58	106.71
22	A	810	CLA	C4A-NA-C1A	6.40	109.58	106.71
22	R	609	CLA	C4A-NA-C1A	6.40	109.58	106.71
22	B	832	CLA	C4A-NA-C1A	6.40	109.58	106.71
22	O	312	CLA	C4A-NA-C1A	6.40	109.58	106.71
22	X	405	CLA	C4A-NA-C1A	6.39	109.58	106.71
22	Q	608	CLA	C4A-NA-C1A	6.39	109.58	106.71
22	B	833	CLA	C4A-NA-C1A	6.39	109.58	106.71
22	L	410	CLA	C4A-NA-C1A	6.39	109.58	106.71
22	U	406	CLA	C4A-NA-C1A	6.39	109.58	106.71
22	P	604	CLA	C4A-NA-C1A	6.38	109.58	106.71
22	G	610	CLA	C4A-NA-C1A	6.38	109.58	106.71
22	I	604	CLA	C4A-NA-C1A	6.37	109.57	106.71
22	Q	606	CLA	C4A-NA-C1A	6.37	109.57	106.71
22	F	404	CLA	C4A-NA-C1A	6.37	109.57	106.71
22	Q	601	CLA	C4A-NA-C1A	6.37	109.57	106.71
22	V	601	CLA	C4A-NA-C1A	6.37	109.57	106.71
22	P	609	CLA	C4A-NA-C1A	6.37	109.57	106.71
22	A	823	CLA	C4A-NA-C1A	6.36	109.56	106.71
22	U	420	CLA	C4A-NA-C1A	6.36	109.56	106.71
22	A	805	CLA	C4A-NA-C1A	6.36	109.56	106.71
22	A	806	CLA	C4A-NA-C1A	6.36	109.56	106.71
22	K	613	CLA	C4A-NA-C1A	6.35	109.56	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	H	306	CLA	C4A-NA-C1A	6.35	109.56	106.71
22	A	824	CLA	C4A-NA-C1A	6.35	109.56	106.71
22	A	835	CLA	C4A-NA-C1A	6.35	109.56	106.71
22	G	604	CLA	C4A-NA-C1A	6.34	109.56	106.71
22	K	604	CLA	C4A-NA-C1A	6.34	109.56	106.71
22	R	601	CLA	C4A-NA-C1A	6.34	109.56	106.71
22	S	607	CLA	C4A-NA-C1A	6.34	109.56	106.71
22	U	409	CLA	C4A-NA-C1A	6.34	109.56	106.71
22	O	311	CLA	C4A-NA-C1A	6.33	109.55	106.71
22	B	839	CLA	C4A-NA-C1A	6.33	109.55	106.71
22	L	408	CLA	C4A-NA-C1A	6.33	109.55	106.71
24	R	613	DD6	C3-C2-C1	-6.32	118.28	127.31
22	Q	609	CLA	C4A-NA-C1A	6.32	109.55	106.71
22	A	829	CLA	C4A-NA-C1A	6.32	109.55	106.71
22	N	601	CLA	C4A-NA-C1A	6.32	109.55	106.71
22	W	406	CLA	C4A-NA-C1A	6.32	109.55	106.71
22	N	604	CLA	C4A-NA-C1A	6.32	109.55	106.71
22	A	815	CLA	C4A-NA-C1A	6.32	109.55	106.71
22	B	812	CLA	C4A-NA-C1A	6.31	109.55	106.71
22	O	308	CLA	C4A-NA-C1A	6.31	109.55	106.71
22	W	403	CLA	C4A-NA-C1A	6.31	109.54	106.71
22	R	608	CLA	C4A-NA-C1A	6.31	109.54	106.71
22	I	607	CLA	C4A-NA-C1A	6.30	109.54	106.71
22	V	607	CLA	C4A-NA-C1A	6.30	109.54	106.71
22	A	834	CLA	C4A-NA-C1A	6.30	109.54	106.71
22	Q	618	CLA	C4A-NA-C1A	6.30	109.54	106.71
22	H	302	CLA	C4A-NA-C1A	6.30	109.54	106.71
22	A	836	CLA	C4A-NA-C1A	6.30	109.54	106.71
22	A	842	CLA	C4A-NA-C1A	6.30	109.54	106.71
22	U	404	CLA	C4A-NA-C1A	6.29	109.54	106.71
22	K	603	CLA	C4A-NA-C1A	6.29	109.53	106.71
22	X	407	CLA	C4A-NA-C1A	6.29	109.53	106.71
22	V	610	CLA	C4A-NA-C1A	6.29	109.53	106.71
22	X	409	CLA	C4A-NA-C1A	6.29	109.53	106.71
22	G	607	CLA	C4A-NA-C1A	6.28	109.53	106.71
22	A	827	CLA	C4A-NA-C1A	6.28	109.53	106.71
22	H	303	CLA	C4A-NA-C1A	6.28	109.53	106.71
22	U	410	CLA	C4A-NA-C1A	6.28	109.53	106.71
22	A	837	CLA	C4A-NA-C1A	6.28	109.53	106.71
22	G	606	CLA	C4A-NA-C1A	6.28	109.53	106.71
22	L	407	CLA	C4A-NA-C1A	6.28	109.53	106.71
22	H	310	CLA	C4A-NA-C1A	6.27	109.53	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	K	617	CLA	C4A-NA-C1A	6.27	109.52	106.71
22	W	413	CLA	C4A-NA-C1A	6.27	109.52	106.71
22	G	602	CLA	C4A-NA-C1A	6.27	109.52	106.71
22	K	602	CLA	C4A-NA-C1A	6.27	109.52	106.71
22	S	608	CLA	C4A-NA-C1A	6.27	109.52	106.71
22	Q	607	CLA	C4A-NA-C1A	6.26	109.52	106.71
22	U	411	CLA	C4A-NA-C1A	6.26	109.52	106.71
22	T	605	CLA	C4A-NA-C1A	6.25	109.52	106.71
22	T	607	CLA	C4A-NA-C1A	6.25	109.52	106.71
22	U	405	CLA	C4A-NA-C1A	6.25	109.52	106.71
22	T	609	CLA	C4A-NA-C1A	6.24	109.51	106.71
22	V	608	CLA	C4A-NA-C1A	6.24	109.51	106.71
22	B	822	CLA	C4A-NA-C1A	6.23	109.51	106.71
22	A	809	CLA	C4A-NA-C1A	6.23	109.51	106.71
22	Q	611	CLA	C4A-NA-C1A	6.23	109.51	106.71
22	L	411	CLA	C4A-NA-C1A	6.23	109.51	106.71
22	B	859	CLA	C4A-NA-C1A	6.23	109.50	106.71
22	V	603	CLA	C4A-NA-C1A	6.22	109.50	106.71
22	B	834	CLA	C4A-NA-C1A	6.20	109.50	106.71
22	S	609	CLA	C4A-NA-C1A	6.20	109.50	106.71
22	A	817	CLA	C4A-NA-C1A	6.20	109.50	106.71
22	N	607	CLA	C4A-NA-C1A	6.20	109.49	106.71
22	A	852	CLA	C4A-NA-C1A	6.20	109.49	106.71
22	A	822	CLA	C4A-NA-C1A	6.19	109.49	106.71
22	K	610	CLA	C4A-NA-C1A	6.19	109.49	106.71
22	Q	604	CLA	C4A-NA-C1A	6.18	109.49	106.71
22	X	404	CLA	C4A-NA-C1A	6.18	109.49	106.71
22	A	808	CLA	C4A-NA-C1A	6.18	109.48	106.71
22	F	405	CLA	C4A-NA-C1A	6.17	109.48	106.71
22	T	602	CLA	C4A-NA-C1A	6.17	109.48	106.71
22	W	415	CLA	C4A-NA-C1A	6.17	109.48	106.71
22	B	828	CLA	C4A-NA-C1A	6.17	109.48	106.71
22	I	602	CLA	C4A-NA-C1A	6.16	109.48	106.71
22	A	825	CLA	C4A-NA-C1A	6.15	109.47	106.71
22	L	403	CLA	C4A-NA-C1A	6.15	109.47	106.71
22	T	603	CLA	C4A-NA-C1A	6.14	109.47	106.71
22	U	415	CLA	C4A-NA-C1A	6.14	109.47	106.71
21	A	851	BCR	C7-C8-C9	-6.13	116.97	126.23
22	O	306	CLA	C4A-NA-C1A	6.12	109.46	106.71
22	O	315	CLA	C4A-NA-C1A	6.11	109.45	106.71
22	Q	613	CLA	C4A-NA-C1A	6.10	109.45	106.71
22	A	832	CLA	C4A-NA-C1A	6.10	109.45	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	W	411	CLA	C4A-NA-C1A	6.08	109.44	106.71
22	B	831	CLA	C4A-NA-C1A	6.08	109.44	106.71
22	N	603	CLA	C4A-NA-C1A	6.07	109.43	106.71
22	N	609	CLA	C4A-NA-C1A	6.07	109.43	106.71
22	A	812	CLA	C4A-NA-C1A	6.06	109.43	106.71
22	R	606	CLA	C4A-NA-C1A	6.04	109.42	106.71
22	H	312	CLA	C4A-NA-C1A	6.02	109.41	106.71
22	S	610	CLA	C4A-NA-C1A	6.01	109.41	106.71
22	O	314	CLA	C4A-NA-C1A	6.00	109.40	106.71
22	Q	605	CLA	C4A-NA-C1A	5.99	109.40	106.71
22	R	604	CLA	C4A-NA-C1A	5.98	109.40	106.71
22	A	818	CLA	C4A-NA-C1A	5.98	109.39	106.71
22	A	811	CLA	C4A-NA-C1A	5.97	109.39	106.71
22	W	402	CLA	C4A-NA-C1A	5.96	109.39	106.71
22	R	602	CLA	C4A-NA-C1A	5.96	109.39	106.71
24	P	613	DD6	C3-C2-C1	-5.96	118.81	127.31
22	S	603	CLA	C4A-NA-C1A	5.95	109.38	106.71
22	X	417	CLA	C4A-NA-C1A	5.94	109.38	106.71
22	W	409	CLA	C4A-NA-C1A	5.93	109.37	106.71
22	G	609	CLA	C4A-NA-C1A	5.93	109.37	106.71
22	G	603	CLA	C4A-NA-C1A	5.92	109.37	106.71
21	B	843	BCR	C24-C23-C22	-5.91	117.31	126.23
22	R	610	CLA	C4A-NA-C1A	5.89	109.35	106.71
22	I	611	CLA	C4A-NA-C1A	5.87	109.35	106.71
22	B	814	CLA	C4A-NA-C1A	5.83	109.33	106.71
22	A	803	CLA	C4A-NA-C1A	5.81	109.32	106.71
24	J	105	DD6	C9-C10-C11	-5.78	119.06	127.31
22	H	304	CLA	C4A-NA-C1A	5.77	109.30	106.71
22	B	830	CLA	C4A-NA-C1A	5.77	109.30	106.71
22	K	612	CLA	C4A-NA-C1A	5.74	109.29	106.71
22	O	307	CLA	C4A-NA-C1A	5.74	109.29	106.71
21	B	843	BCR	C40-C30-C29	-5.71	86.06	108.91
22	I	603	CLA	C4A-NA-C1A	5.69	109.27	106.71
21	A	850	BCR	C24-C23-C22	-5.69	117.64	126.23
21	B	843	BCR	C7-C8-C9	-5.62	117.74	126.23
22	B	815	CLA	C4A-NA-C1A	5.62	109.23	106.71
22	L	412	CLA	C4A-NA-C1A	5.59	109.22	106.71
22	A	804	CLA	C4A-NA-C1A	5.55	109.20	106.71
22	A	820	CLA	C4A-NA-C1A	5.53	109.19	106.71
22	A	813	CLA	C4A-NA-C1A	5.53	109.19	106.71
22	P	603	CLA	C4A-NA-C1A	5.42	109.14	106.71
21	B	801	BCR	C11-C10-C9	-5.40	119.60	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	801	BCR	C7-C8-C9	-5.36	118.14	126.23
21	B	801	BCR	C15-C14-C13	-5.34	119.68	127.31
24	A	847	DD6	C4-C5-C6	-5.34	119.69	127.31
22	B	827	CLA	C4A-NA-C1A	5.32	109.10	106.71
24	B	841	DD6	C3-C2-C1	-5.29	119.77	127.31
24	L	415	DD6	C3-C2-C1	-5.25	119.82	127.31
21	B	843	BCR	C30-C25-C26	-5.24	115.23	122.61
24	T	612	DD6	C3-C2-C1	-5.23	119.85	127.31
21	M	101	BCR	C20-C21-C22	-5.22	119.86	127.31
24	P	612	DD6	C4-C3-C2	-5.21	112.79	123.47
21	A	850	BCR	C20-C21-C22	-5.21	119.87	127.31
24	G	613	DD6	C3-C2-C1	-5.20	119.88	127.31
24	J	105	DD6	C4-C5-C6	-5.19	119.90	127.31
21	B	843	BCR	C3-C4-C5	-5.18	104.83	114.08
24	V	614	DD6	C4-C5-C6	-5.15	119.95	127.31
24	I	613	DD6	C3-C2-C1	-5.15	119.96	127.31
22	B	813	CLA	C4A-NA-C1A	5.14	109.02	106.71
22	A	830	CLA	C4A-NA-C1A	5.12	109.01	106.71
24	V	614	DD6	C21-C20-C19	5.07	119.98	114.28
21	A	851	BCR	C28-C27-C26	-5.07	105.03	114.08
24	W	418	DD6	C21-C20-C19	5.04	119.95	114.28
21	M	101	BCR	C16-C17-C18	-5.01	120.16	127.31
24	V	614	DD6	O1-C20-C19	-5.01	109.62	113.38
24	S	611	DD6	C3-C2-C1	-4.99	120.19	127.31
24	H	314	DD6	C21-C20-C19	4.99	119.89	114.28
24	Q	615	DD6	C21-C20-C19	4.99	119.89	114.28
24	N	613	DD6	C3-C2-C1	-4.96	120.23	127.31
24	I	613	DD6	C21-C20-C19	4.96	119.86	114.28
24	L	414	DD6	C3-C2-C1	-4.95	120.24	127.31
24	R	613	DD6	C21-C20-C19	4.95	119.85	114.28
21	B	845	BCR	C15-C14-C13	-4.94	120.25	127.31
24	U	416	DD6	C21-C20-C19	4.93	119.83	114.28
24	O	317	DD6	C21-C20-C19	4.92	119.81	114.28
24	G	613	DD6	C21-C20-C19	4.90	119.79	114.28
24	X	401	DD6	C4-C5-C6	-4.89	120.33	127.31
24	N	612	DD6	C21-C20-C19	4.88	119.77	114.28
24	K	614	DD6	C21-C20-C19	4.86	119.75	114.28
24	Q	615	DD6	C3-C2-C1	-4.85	120.39	127.31
24	L	415	DD6	C9-C10-C11	-4.82	120.43	127.31
24	H	315	DD6	C21-C20-C19	4.82	119.70	114.28
24	A	858	DD6	C21-C20-C19	4.81	119.69	114.28
24	S	612	DD6	C21-C20-C19	4.80	119.69	114.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	N	613	DD6	C21-C20-C19	4.80	119.68	114.28
24	T	612	DD6	C21-C20-C19	4.79	119.67	114.28
24	W	418	DD6	C3-C2-C1	-4.79	120.47	127.31
24	A	859	DD6	C3-C2-C1	-4.79	120.48	127.31
24	F	406	DD6	C21-C20-C19	4.77	119.64	114.28
24	P	613	DD6	C21-C20-C19	4.77	119.64	114.28
24	S	611	DD6	C21-C20-C19	4.75	119.63	114.28
24	L	414	DD6	C21-C20-C19	4.75	119.62	114.28
33	A	802	CL0	CHD-C1D-ND	-4.74	120.09	124.45
24	X	401	DD6	C21-C20-C19	4.74	119.62	114.28
24	O	317	DD6	C3-C2-C1	-4.74	120.54	127.31
24	W	417	DD6	O1-C20-C19	-4.73	109.83	113.38
24	F	406	DD6	C4-C5-C6	-4.73	120.56	127.31
21	B	842	BCR	C15-C14-C13	-4.72	120.57	127.31
24	V	615	DD6	C21-C20-C19	4.72	119.59	114.28
24	R	612	DD6	C21-C20-C19	4.72	119.59	114.28
24	U	417	DD6	C37-C36-C31	-4.69	117.98	124.35
24	X	414	DD6	C21-C20-C19	4.67	119.53	114.28
24	W	416	DD6	C21-C20-C19	4.64	119.50	114.28
24	L	415	DD6	C21-C20-C19	4.63	119.48	114.28
22	B	828	CLA	CMB-C2B-C1B	-4.57	121.44	128.46
21	M	101	BCR	C24-C23-C22	-4.57	119.33	126.23
21	A	849	BCR	C15-C14-C13	-4.54	120.83	127.31
24	H	314	DD6	C4-C5-C6	-4.53	120.84	127.31
24	K	614	DD6	C37-C36-C31	-4.51	118.22	124.35
22	A	811	CLA	CMB-C2B-C1B	-4.51	121.54	128.46
21	B	846	BCR	C16-C17-C18	-4.50	120.89	127.31
24	B	841	DD6	C21-C20-C19	4.50	119.34	114.28
24	A	847	DD6	C21-C20-C19	4.49	119.33	114.28
22	T	607	CLA	CMB-C2B-C1B	-4.49	121.56	128.46
21	B	846	BCR	C24-C23-C22	-4.46	119.49	126.23
22	A	815	CLA	CMB-C2B-C1B	-4.43	121.66	128.46
24	I	612	DD6	C21-C20-C19	4.43	119.26	114.28
22	B	804	CLA	CMB-C2B-C1B	-4.43	121.66	128.46
22	A	839	CLA	CMB-C2B-C1B	-4.42	121.67	128.46
24	L	413	DD6	C21-C20-C19	4.41	119.24	114.28
24	Q	615	DD6	C37-C36-C31	-4.40	118.37	124.35
22	U	404	CLA	CMB-C2B-C1B	-4.39	121.71	128.46
22	B	811	CLA	CMB-C2B-C1B	-4.39	121.71	128.46
24	N	612	DD6	C4-C5-C6	-4.39	121.04	127.31
22	X	417	CLA	CMB-C2B-C1B	-4.39	121.71	128.46
24	A	859	DD6	C4-C5-C6	-4.38	121.06	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	L	415	DD6	C4-C5-C6	-4.37	121.08	127.31
24	X	414	DD6	C4-C5-C6	-4.37	121.08	127.31
22	T	609	CLA	CMB-C2B-C1B	-4.37	121.75	128.46
24	G	612	DD6	C21-C20-C19	4.36	119.18	114.28
22	K	617	CLA	CMB-C2B-C1B	-4.35	121.78	128.46
22	B	834	CLA	CMB-C2B-C1B	-4.35	121.78	128.46
22	A	819	CLA	O2D-CGD-O1D	-4.33	115.37	123.84
22	A	818	CLA	CMB-C2B-C1B	-4.33	121.81	128.46
24	W	417	DD6	C21-C20-C19	4.33	119.15	114.28
22	G	604	CLA	CMB-C2B-C1B	-4.31	121.84	128.46
22	H	308	CLA	CMB-C2B-C1B	-4.31	121.84	128.46
22	H	305	CLA	CMB-C2B-C1B	-4.31	121.84	128.46
22	I	611	CLA	CMB-C2B-C1B	-4.31	121.85	128.46
22	L	403	CLA	CMB-C2B-C1B	-4.30	121.86	128.46
22	R	609	CLA	CMB-C2B-C1B	-4.29	121.87	128.46
31	U	408	CHL	CHD-C1D-ND	-4.29	120.51	124.45
21	A	850	BCR	C16-C17-C18	-4.28	121.20	127.31
22	B	806	CLA	CMB-C2B-C1B	-4.28	121.88	128.46
22	O	312	CLA	CMB-C2B-C1B	-4.28	121.89	128.46
24	P	612	DD6	C9-C8-C6	-4.28	114.40	126.42
22	H	304	CLA	CMB-C2B-C1B	-4.28	121.89	128.46
22	A	832	CLA	CMB-C2B-C1B	-4.28	121.89	128.46
22	I	609	CLA	CMB-C2B-C1B	-4.27	121.89	128.46
22	P	606	CLA	CMB-C2B-C1B	-4.27	121.90	128.46
22	Q	603	CLA	CMB-C2B-C1B	-4.27	121.90	128.46
22	S	603	CLA	CMB-C2B-C1B	-4.27	121.91	128.46
22	N	605	CLA	CMB-C2B-C1B	-4.26	121.92	128.46
22	S	602	CLA	CMB-C2B-C1B	-4.26	121.92	128.46
22	A	828	CLA	CMB-C2B-C1B	-4.26	121.92	128.46
22	X	411	CLA	CMB-C2B-C1B	-4.25	121.93	128.46
24	X	415	DD6	C21-C20-C19	4.24	119.05	114.28
24	B	841	DD6	C4-C5-C6	-4.24	121.26	127.31
24	P	612	DD6	C13-C11-C10	4.23	125.44	118.94
22	B	824	CLA	CMB-C2B-C1B	-4.23	121.96	128.46
24	R	612	DD6	C3-C2-C1	-4.22	121.28	127.31
24	W	416	DD6	C4-C5-C6	-4.22	121.28	127.31
24	K	615	DD6	C21-C20-C19	4.22	119.03	114.28
24	U	417	DD6	C21-C20-C19	4.22	119.03	114.28
31	V	606	CHL	CHD-C1D-ND	-4.22	120.58	124.45
25	F	401	DGD	O2G-C1B-C2B	4.22	120.59	111.50
24	K	615	DD6	C4-C5-C6	-4.22	121.29	127.31
22	B	831	CLA	CMB-C2B-C1B	-4.22	121.98	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	814	CLA	CMB-C2B-C1B	-4.21	121.99	128.46
24	P	612	DD6	C21-C20-C19	4.21	119.02	114.28
22	B	825	CLA	CMB-C2B-C1B	-4.21	122.00	128.46
22	Q	605	CLA	CMB-C2B-C1B	-4.20	122.00	128.46
24	F	406	DD6	C14-C13-C11	-4.20	119.01	125.53
22	B	835	CLA	CMB-C2B-C1B	-4.20	122.01	128.46
22	B	830	CLA	CMB-C2B-C1B	-4.20	122.02	128.46
22	B	818	CLA	CMB-C2B-C1B	-4.19	122.02	128.46
22	X	409	CLA	CMB-C2B-C1B	-4.19	122.02	128.46
22	P	607	CLA	CMB-C2B-C1B	-4.19	122.03	128.46
24	B	841	DD6	C9-C10-C11	-4.18	121.34	127.31
24	X	416	DD6	C8-C6-C5	4.18	125.36	118.94
24	B	841	DD6	O1-C20-C19	-4.18	110.24	113.38
31	X	406	CHL	CHD-C1D-ND	-4.18	120.61	124.45
22	O	308	CLA	CMB-C2B-C1B	-4.18	122.04	128.46
24	Q	614	DD6	C21-C20-C19	4.17	118.97	114.28
22	V	607	CLA	CMB-C2B-C1B	-4.17	122.05	128.46
21	A	848	BCR	C33-C5-C6	-4.17	119.85	124.53
24	N	613	DD6	C9-C10-C11	-4.17	121.36	127.31
22	K	612	CLA	CMB-C2B-C1B	-4.16	122.07	128.46
33	A	802	CL0	CHB-C4A-NA	4.16	130.26	124.51
22	I	602	CLA	CMB-C2B-C1B	-4.16	122.08	128.46
24	Q	614	DD6	O1-C20-C19	-4.15	110.26	113.38
22	F	404	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
22	A	844	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
22	N	602	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
22	W	409	CLA	CMB-C2B-C1B	-4.14	122.09	128.46
24	R	612	DD6	C4-C5-C6	-4.14	121.40	127.31
22	K	604	CLA	CMB-C2B-C1B	-4.14	122.09	128.46
22	H	318	CLA	CMB-C2B-C1B	-4.13	122.11	128.46
26	L	416	LHG	O7-C7-C8	4.13	120.40	111.50
33	A	802	CL0	O2D-CGD-O1D	-4.12	115.78	123.84
24	A	859	DD6	C21-C20-C19	4.12	118.92	114.28
24	T	613	DD6	C21-C20-C19	4.11	118.91	114.28
26	N	616	LHG	O7-C7-C8	4.11	120.36	111.50
22	V	603	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
22	Q	611	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
24	I	612	DD6	O1-C20-C19	-4.11	110.30	113.38
31	U	407	CHL	CHD-C1D-ND	-4.10	120.68	124.45
22	A	817	CLA	CMB-C2B-C1B	-4.10	122.16	128.46
22	G	602	CLA	CMB-C2B-C1B	-4.10	122.16	128.46
22	A	820	CLA	CMB-C2B-C1B	-4.10	122.16	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	U	419	LHG	O7-C7-C8	4.10	120.34	111.50
24	L	413	DD6	C4-C5-C6	-4.10	121.46	127.31
22	A	833	CLA	CMB-C2B-C1B	-4.09	122.17	128.46
21	A	851	BCR	C20-C21-C22	-4.09	121.47	127.31
26	O	324	LHG	O7-C7-C8	4.09	120.31	111.50
26	S	613	LHG	O7-C7-C8	4.08	120.30	111.50
22	A	803	CLA	CMB-C2B-C1B	-4.08	122.19	128.46
22	A	826	CLA	CMB-C2B-C1B	-4.08	122.19	128.46
24	K	614	DD6	C4-C5-C6	-4.07	121.50	127.31
26	A	845	LHG	O7-C7-C8	4.07	120.27	111.50
24	O	316	DD6	C21-C20-C19	4.06	118.85	114.28
22	N	607	CLA	CMB-C2B-C1B	-4.06	122.22	128.46
22	S	605	CLA	C1-C2-C3	-4.06	119.02	126.04
24	A	858	DD6	C-C1-C2	-4.06	117.24	122.92
22	A	852	CLA	CMB-C2B-C1B	-4.06	122.23	128.46
21	B	842	BCR	C33-C5-C6	-4.05	119.98	124.53
21	B	843	BCR	C16-C17-C18	-4.05	121.53	127.31
26	X	420	LHG	O7-C7-C8	4.05	120.22	111.50
22	A	804	CLA	CMB-C2B-C1B	-4.05	122.25	128.46
26	K	619	LHG	O7-C7-C8	4.04	120.21	111.50
24	H	315	DD6	C3-C2-C1	-4.04	121.55	127.31
22	A	801	CLA	CMB-C2B-C1B	-4.04	122.26	128.46
26	H	316	LHG	O7-C7-C8	4.03	120.19	111.50
24	G	613	DD6	C37-C36-C31	-4.03	118.87	124.35
21	A	848	BCR	C16-C17-C18	-4.03	121.56	127.31
22	I	605	CLA	CMB-C2B-C1B	-4.03	122.27	128.46
33	A	802	CL0	C2C-C1C-NC	4.03	113.75	109.97
22	R	604	CLA	CMB-C2B-C1B	-4.03	122.28	128.46
22	U	413	CLA	CMB-C2B-C1B	-4.02	122.28	128.46
22	A	805	CLA	CMB-C2B-C1B	-4.02	122.28	128.46
31	V	605	CHL	CHD-C1D-ND	-4.02	120.76	124.45
22	B	812	CLA	CMB-C2B-C1B	-4.02	122.28	128.46
22	K	602	CLA	CMB-C2B-C1B	-4.02	122.29	128.46
22	W	411	CLA	CMB-C2B-C1B	-4.02	122.29	128.46
22	N	603	CLA	CMB-C2B-C1B	-4.01	122.30	128.46
26	T	614	LHG	O7-C7-C8	4.01	120.14	111.50
22	U	411	CLA	CMB-C2B-C1B	-4.00	122.31	128.46
22	S	614	CLA	CMB-C2B-C1B	-4.00	122.31	128.46
22	I	607	CLA	CMB-C2B-C1B	-4.00	122.31	128.46
22	V	604	CLA	CMB-C2B-C1B	-4.00	122.31	128.46
22	U	409	CLA	CMB-C2B-C1B	-4.00	122.31	128.46
22	W	402	CLA	CMB-C2B-C1B	-4.00	122.31	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	839	CLA	CMB-C2B-C1B	-4.00	122.32	128.46
24	U	417	DD6	O1-C20-C19	-4.00	110.38	113.38
24	X	415	DD6	C4-C5-C6	-3.99	121.61	127.31
24	X	415	DD6	O1-C20-C19	-3.99	110.38	113.38
22	G	609	CLA	CMB-C2B-C1B	-3.99	122.33	128.46
21	B	844	BCR	C7-C8-C9	-3.99	120.20	126.23
24	G	612	DD6	C4-C5-C6	-3.99	121.62	127.31
26	B	851	LHG	O7-C7-C8	3.99	120.10	111.50
22	B	827	CLA	CMB-C2B-C1B	-3.99	122.34	128.46
26	A	846	LHG	O7-C7-C8	3.98	120.09	111.50
22	B	805	CLA	CMB-C2B-C1B	-3.98	122.34	128.46
21	A	850	BCR	C38-C26-C25	-3.98	120.06	124.53
24	V	614	DD6	C9-C10-C11	-3.98	121.63	127.31
22	R	602	CLA	CMB-C2B-C1B	-3.98	122.35	128.46
26	K	616	LHG	O7-C7-C8	3.97	120.06	111.50
21	A	851	BCR	C16-C17-C18	-3.97	121.64	127.31
31	W	407	CHL	CHD-C1D-ND	-3.97	120.81	124.45
22	A	814	CLA	CMB-C2B-C1B	-3.97	122.37	128.46
26	G	614	LHG	O7-C7-C8	3.96	120.04	111.50
24	S	612	DD6	C4-C5-C6	-3.96	121.66	127.31
22	B	821	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
24	Q	614	DD6	C4-C5-C6	-3.95	121.67	127.31
22	A	808	CLA	CMB-C2B-C1B	-3.95	122.39	128.46
21	A	849	BCR	C16-C17-C18	-3.95	121.67	127.31
24	R	612	DD6	C9-C10-C11	-3.95	121.67	127.31
24	U	416	DD6	C4-C5-C6	-3.95	121.67	127.31
22	K	611	CLA	CMB-C2B-C1B	-3.95	122.39	128.46
22	R	606	CLA	CMB-C2B-C1B	-3.95	122.39	128.46
26	O	321	LHG	O7-C7-C8	3.95	120.01	111.50
24	H	315	DD6	C37-C36-C31	-3.94	118.99	124.35
24	N	613	DD6	C37-C36-C31	-3.94	118.99	124.35
22	A	839	CLA	CMB-C2B-C3B	3.94	132.05	124.68
22	T	603	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
22	B	808	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
22	A	829	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
31	W	408	CHL	CHD-C1D-ND	-3.93	120.84	124.45
22	A	806	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
22	O	307	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
22	W	406	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
22	G	601	CLA	CMB-C2B-C1B	-3.93	122.43	128.46
22	L	411	CLA	CMB-C2B-C1B	-3.93	122.43	128.46
21	A	849	BCR	C24-C23-C22	-3.93	120.30	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	K	606	CLA	CMB-C2B-C1B	-3.92	122.44	128.46
24	X	416	DD6	C12-C11-C13	3.91	124.24	118.08
22	T	601	CLA	CMB-C2B-C1B	-3.91	122.45	128.46
24	V	615	DD6	C4-C5-C6	-3.91	121.73	127.31
22	S	607	CLA	CMB-C2B-C1B	-3.91	122.46	128.46
22	X	408	CLA	CMB-C2B-C1B	-3.91	122.46	128.46
33	A	802	CL0	CHD-C4C-C3C	-3.91	119.10	124.84
24	S	612	DD6	C3-C2-C1	-3.90	121.74	127.31
24	P	612	DD6	C25-C24-C1	-3.90	115.46	126.42
22	O	306	CLA	CMB-C2B-C1B	-3.90	122.47	128.46
22	T	602	CLA	CMB-C2B-C1B	-3.90	122.47	128.46
21	B	845	BCR	C24-C23-C22	-3.89	120.35	126.23
22	Q	609	CLA	CMB-C2B-C1B	-3.89	122.48	128.46
31	W	422	CHL	CHD-C1D-ND	-3.89	120.88	124.45
22	B	815	CLA	CMB-C2B-C1B	-3.89	122.48	128.46
21	B	845	BCR	C11-C10-C9	-3.89	121.76	127.31
22	N	604	CLA	CMB-C2B-C1B	-3.89	122.49	128.46
22	A	831	CLA	CMB-C2B-C1B	-3.89	122.49	128.46
21	A	848	BCR	C11-C10-C9	-3.88	121.77	127.31
22	N	609	CLA	CMB-C2B-C1B	-3.88	122.50	128.46
22	B	813	CLA	CMB-C2B-C1B	-3.88	122.50	128.46
26	B	848	LHG	O7-C7-C8	3.88	119.86	111.50
22	O	313	CLA	CMB-C2B-C1B	-3.88	122.51	128.46
24	G	612	DD6	C37-C36-C31	-3.87	119.08	124.35
22	X	405	CLA	CMB-C2B-C1B	-3.87	122.51	128.46
22	A	827	CLA	CMB-C2B-C1B	-3.87	122.51	128.46
22	P	605	CLA	CMB-C2B-C1B	-3.87	122.52	128.46
24	A	858	DD6	C-C1-C24	3.87	124.17	118.08
22	I	603	CLA	CMB-C2B-C1B	-3.87	122.52	128.46
26	O	318	LHG	O7-C7-C8	3.87	119.84	111.50
24	L	413	DD6	C3-C2-C1	-3.87	121.79	127.31
21	A	849	BCR	C20-C21-C22	-3.86	121.80	127.31
22	B	822	CLA	CMB-C2B-C1B	-3.85	122.54	128.46
22	L	410	CLA	CMB-C2B-C1B	-3.85	122.54	128.46
22	B	823	CLA	CMB-C2B-C1B	-3.85	122.54	128.46
22	P	611	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
22	A	812	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
22	B	817	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
22	H	312	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
22	L	417	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
22	A	807	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
21	A	848	BCR	C7-C8-C9	-3.85	120.42	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	O	323	LHG	O7-C7-C8	3.85	119.79	111.50
22	A	839	CLA	O2D-CGD-O1D	-3.85	116.32	123.84
22	T	604	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
24	G	612	DD6	O1-C20-C19	-3.84	110.49	113.38
22	L	404	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
22	O	314	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
22	O	305	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
22	L	412	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
22	K	610	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
24	W	417	DD6	C4-C5-C6	-3.84	121.83	127.31
22	W	404	CLA	CMB-C2B-C1B	-3.83	122.57	128.46
22	S	601	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
22	W	415	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
22	A	830	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
24	X	416	DD6	C14-C13-C11	3.83	131.47	125.53
22	O	319	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
24	W	416	DD6	C3-C2-C1	-3.83	121.85	127.31
21	J	103	BCR	C15-C14-C13	-3.83	121.85	127.31
22	X	407	CLA	CMB-C2B-C1B	-3.82	122.59	128.46
24	V	615	DD6	C3-C2-C1	-3.82	121.85	127.31
22	R	603	CLA	CMB-C2B-C1B	-3.82	122.59	128.46
22	A	809	CLA	CMB-C2B-C1B	-3.82	122.60	128.46
22	U	414	CLA	CMB-C2B-C1B	-3.82	122.60	128.46
21	B	844	BCR	C11-C10-C9	-3.82	121.86	127.31
22	G	610	CLA	CMB-C2B-C1B	-3.81	122.60	128.46
21	A	851	BCR	C15-C14-C13	-3.81	121.87	127.31
26	P	601	LHG	O7-C7-C8	3.81	119.72	111.50
22	B	816	CLA	CMB-C2B-C1B	-3.81	122.61	128.46
22	B	809	CLA	CMB-C2B-C1B	-3.81	122.61	128.46
22	A	838	CLA	CMB-C2B-C1B	-3.81	122.61	128.46
22	I	604	CLA	CMB-C2B-C1B	-3.81	122.61	128.46
22	A	823	CLA	CMB-C2B-C1B	-3.81	122.61	128.46
26	N	614	LHG	O7-C7-C8	3.80	119.70	111.50
26	Q	616	LHG	O7-C7-C8	3.80	119.70	111.50
24	X	416	DD6	C21-C20-C19	3.80	118.56	114.28
22	H	303	CLA	CMB-C2B-C1B	-3.80	122.62	128.46
22	P	609	CLA	CMB-C2B-C1B	-3.80	122.62	128.46
26	R	614	LHG	O7-C7-C8	3.79	119.68	111.50
24	Q	615	DD6	C15-C14-C13	-3.79	117.97	125.99
24	P	612	DD6	C37-C36-C31	-3.79	119.20	124.35
22	A	822	CLA	CMB-C2B-C1B	-3.79	122.64	128.46
24	W	418	DD6	O1-C20-C19	-3.79	110.54	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	845	BCR	C3-C4-C5	-3.79	107.32	114.08
22	S	604	CLA	CMB-C2B-C1B	-3.78	122.65	128.46
22	A	835	CLA	CMB-C2B-C1B	-3.78	122.65	128.46
21	B	842	BCR	C24-C23-C22	-3.78	120.52	126.23
21	B	844	BCR	C15-C14-C13	-3.78	121.91	127.31
22	Q	606	CLA	CMB-C2B-C1B	-3.78	122.65	128.46
22	V	609	CLA	CMB-C2B-C1B	-3.78	122.65	128.46
22	G	608	CLA	CMB-C2B-C1B	-3.78	122.66	128.46
22	Q	612	CLA	CMB-C2B-C1B	-3.78	122.66	128.46
22	L	402	CLA	CMB-C2B-C1B	-3.78	122.66	128.46
22	G	611	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
22	A	840	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
22	O	310	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
22	W	413	CLA	CMB-C2B-C1B	-3.77	122.68	128.46
22	W	410	CLA	CMB-C2B-C1B	-3.76	122.68	128.46
24	U	417	DD6	C4-C5-C6	-3.76	121.94	127.31
22	Q	617	CLA	CMB-C2B-C1B	-3.76	122.68	128.46
22	K	603	CLA	CMB-C2B-C1B	-3.76	122.69	128.46
22	L	408	CLA	CMB-C2B-C1B	-3.76	122.69	128.46
22	P	604	CLA	CMB-C2B-C1B	-3.76	122.69	128.46
24	T	613	DD6	C3-C2-C1	-3.75	121.95	127.31
22	J	102	CLA	CMB-C2B-C1B	-3.75	122.70	128.46
22	L	407	CLA	CMB-C2B-C1B	-3.75	122.70	128.46
22	A	811	CLA	CMB-C2B-C3B	3.75	131.69	124.68
22	R	611	CLA	CMB-C2B-C1B	-3.75	122.70	128.46
22	G	605	CLA	CMB-C2B-C1B	-3.74	122.71	128.46
24	R	613	DD6	C15-C14-C13	-3.74	118.08	125.99
22	W	419	CLA	CMB-C2B-C1B	-3.74	122.72	128.46
24	O	316	DD6	C37-C36-C31	-3.73	119.28	124.35
21	B	842	BCR	C16-C17-C18	-3.73	121.99	127.31
24	T	612	DD6	C37-C36-C31	-3.73	119.28	124.35
22	B	810	CLA	CMB-C2B-C1B	-3.72	122.74	128.46
24	A	847	DD6	C9-C10-C11	-3.72	122.00	127.31
22	B	826	CLA	CMB-C2B-C1B	-3.72	122.75	128.46
22	U	405	CLA	CMB-C2B-C1B	-3.72	122.75	128.46
22	L	405	CLA	CMB-C2B-C1B	-3.72	122.75	128.46
22	U	410	CLA	CMB-C2B-C1B	-3.72	122.75	128.46
22	P	602	CLA	CMB-C2B-C1B	-3.71	122.76	128.46
22	B	820	CLA	CMB-C2B-C1B	-3.71	122.76	128.46
21	M	101	BCR	C15-C14-C13	-3.71	122.01	127.31
24	J	105	DD6	C37-C36-C31	-3.71	119.31	124.35
22	H	310	CLA	CMB-C2B-C1B	-3.70	122.78	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	Q	614	DD6	C3-C2-C1	-3.70	122.03	127.31
21	B	844	BCR	C16-C17-C18	-3.70	122.03	127.31
22	X	402	CLA	CMB-C2B-C1B	-3.69	122.78	128.46
24	V	614	DD6	C3-C2-C1	-3.69	122.04	127.31
24	H	314	DD6	C37-C36-C31	-3.69	119.34	124.35
24	F	406	DD6	C37-C36-C31	-3.68	119.34	124.35
22	S	605	CLA	CMB-C2B-C1B	-3.68	122.80	128.46
24	O	316	DD6	O1-C20-C19	-3.68	110.62	113.38
24	W	418	DD6	C4-C5-C6	-3.68	122.06	127.31
22	B	828	CLA	CMB-C2B-C3B	3.68	131.56	124.68
21	B	845	BCR	C7-C8-C9	-3.68	120.68	126.23
22	G	603	CLA	CMB-C2B-C1B	-3.68	122.81	128.46
22	B	834	CLA	CMB-C2B-C3B	3.68	131.56	124.68
21	A	848	BCR	C24-C23-C22	-3.67	120.68	126.23
22	U	401	CLA	CMB-C2B-C1B	-3.67	122.83	128.46
21	B	842	BCR	C11-C10-C9	-3.67	122.08	127.31
24	S	611	DD6	C15-C14-C13	-3.67	118.24	125.99
22	H	304	CLA	CMB-C2B-C3B	3.66	131.53	124.68
31	X	406	CHL	C1D-ND-C4D	-3.66	103.73	106.33
21	B	842	BCR	C30-C25-C26	-3.66	117.45	122.61
24	V	614	DD6	C37-C36-C31	-3.66	119.37	124.35
22	T	607	CLA	CMB-C2B-C3B	3.66	131.52	124.68
22	U	404	CLA	CMB-C2B-C3B	3.66	131.52	124.68
21	A	848	BCR	C15-C14-C13	-3.66	122.09	127.31
21	A	850	BCR	C15-C14-C13	-3.65	122.10	127.31
22	Q	604	CLA	CMB-C2B-C1B	-3.65	122.85	128.46
22	B	806	CLA	CMB-C2B-C3B	3.65	131.51	124.68
22	B	811	CLA	CMB-C2B-C3B	3.65	131.50	124.68
22	X	417	CLA	CMB-C2B-C3B	3.65	131.50	124.68
24	V	614	DD6	C15-C14-C13	-3.65	118.28	125.99
22	T	611	CLA	CMB-C2B-C1B	-3.64	122.86	128.46
24	H	314	DD6	C3-C2-C1	-3.64	122.11	127.31
22	A	832	CLA	CMB-C2B-C3B	3.64	131.49	124.68
22	K	617	CLA	CMB-C2B-C3B	3.64	131.48	124.68
22	G	607	CLA	CMB-C2B-C1B	-3.64	122.88	128.46
22	A	821	CLA	CMB-C2B-C1B	-3.63	122.88	128.46
24	T	613	DD6	O1-C20-C19	-3.63	110.65	113.38
22	T	609	CLA	CMB-C2B-C3B	3.63	131.47	124.68
22	A	816	CLA	CMB-C2B-C1B	-3.63	122.89	128.46
24	L	413	DD6	C37-C36-C31	-3.62	119.42	124.35
22	A	810	CLA	CMB-C2B-C1B	-3.62	122.89	128.46
22	T	608	CLA	CMB-C2B-C1B	-3.62	122.90	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	O	312	CLA	CMB-C2B-C3B	3.62	131.45	124.68
22	R	609	CLA	CMB-C2B-C3B	3.62	131.45	124.68
22	A	815	CLA	CMB-C2B-C3B	3.62	131.44	124.68
22	X	413	CLA	CMB-C2B-C1B	-3.61	122.91	128.46
22	T	605	CLA	CMB-C2B-C1B	-3.61	122.91	128.46
22	R	605	CLA	CMB-C2B-C1B	-3.61	122.91	128.46
31	U	407	CHL	C1D-ND-C4D	-3.61	103.77	106.33
22	B	832	CLA	CMB-C2B-C1B	-3.61	122.92	128.46
21	A	850	BCR	C33-C5-C6	-3.60	120.48	124.53
22	H	305	CLA	CMB-C2B-C3B	3.60	131.42	124.68
25	O	304	DGD	O2G-C1B-C2B	3.60	119.26	111.50
22	B	804	CLA	CMB-C2B-C3B	3.60	131.41	124.68
21	B	843	BCR	C15-C14-C13	-3.60	122.17	127.31
24	X	414	DD6	C3-C2-C1	-3.60	122.17	127.31
24	R	612	DD6	C37-C36-C31	-3.60	119.46	124.35
24	W	416	DD6	C37-C36-C31	-3.59	119.47	124.35
24	X	401	DD6	C9-C10-C11	-3.59	122.19	127.31
21	B	846	BCR	C20-C21-C22	-3.59	122.19	127.31
22	G	604	CLA	CMB-C2B-C3B	3.59	131.39	124.68
22	A	816	CLA	O2D-CGD-O1D	-3.59	116.83	123.84
22	I	611	CLA	CMB-C2B-C3B	3.59	131.39	124.68
22	B	814	CLA	CMB-C2B-C3B	3.58	131.38	124.68
24	V	615	DD6	C37-C36-C31	-3.58	119.48	124.35
22	B	831	CLA	CMB-C2B-C3B	3.58	131.38	124.68
22	V	603	CLA	CMB-C2B-C3B	3.58	131.38	124.68
22	S	603	CLA	CMB-C2B-C3B	3.58	131.38	124.68
22	X	411	CLA	CMB-C2B-C3B	3.58	131.37	124.68
21	A	851	BCR	C27-C26-C25	-3.58	117.54	122.73
31	V	606	CHL	C1D-ND-C4D	-3.58	103.79	106.33
24	N	612	DD6	C3-C2-C1	-3.58	122.21	127.31
22	Q	603	CLA	CMB-C2B-C3B	3.57	131.37	124.68
22	U	412	CLA	CMB-C2B-C1B	-3.57	122.97	128.46
21	B	844	BCR	C24-C23-C22	-3.57	120.83	126.23
22	Q	605	CLA	CMB-C2B-C3B	3.57	131.37	124.68
22	R	615	CLA	CMB-C2B-C1B	-3.57	122.97	128.46
22	S	602	CLA	CMB-C2B-C3B	3.57	131.36	124.68
22	W	403	CLA	CMB-C2B-C1B	-3.57	122.97	128.46
21	B	801	BCR	C28-C27-C26	-3.57	107.70	114.08
22	L	406	CLA	CMB-C2B-C1B	-3.57	122.98	128.46
21	B	842	BCR	C20-C21-C22	-3.57	122.22	127.31
22	X	410	CLA	CMB-C2B-C1B	-3.56	122.98	128.46
21	B	843	BCR	C39-C30-C29	3.56	123.16	108.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	831	CLA	O2D-CGD-O1D	-3.56	116.87	123.84
22	L	403	CLA	CMB-C2B-C3B	3.56	131.34	124.68
22	I	609	CLA	CMB-C2B-C3B	3.56	131.34	124.68
22	Q	608	CLA	CMB-C2B-C1B	-3.55	123.00	128.46
21	B	844	BCR	C33-C5-C6	-3.55	120.54	124.53
22	I	610	CLA	CMB-C2B-C1B	-3.55	123.01	128.46
21	A	849	BCR	C38-C26-C25	-3.55	120.55	124.53
24	I	613	DD6	C15-C14-C13	-3.54	118.51	125.99
24	X	401	DD6	C3-C2-C1	-3.54	122.26	127.31
22	H	308	CLA	CMB-C2B-C3B	3.53	131.29	124.68
24	V	615	DD6	O1-C20-C19	-3.53	110.73	113.38
22	B	836	CLA	CMB-C2B-C1B	-3.53	123.03	128.46
22	N	605	CLA	CMB-C2B-C3B	3.53	131.29	124.68
22	W	412	CLA	CMB-C2B-C1B	-3.53	123.03	128.46
22	X	403	CLA	CMB-C2B-C1B	-3.53	123.03	128.46
22	G	602	CLA	CMB-C2B-C3B	3.53	131.29	124.68
22	A	813	CLA	CMB-C2B-C1B	-3.53	123.04	128.46
22	R	601	CLA	CMB-C2B-C1B	-3.53	123.04	128.46
22	G	606	CLA	CMB-C2B-C1B	-3.53	123.04	128.46
22	B	820	CLA	O2D-CGD-O1D	-3.53	116.94	123.84
21	M	101	BCR	C7-C8-C9	-3.53	120.91	126.23
22	K	604	CLA	CMB-C2B-C3B	3.53	131.27	124.68
24	P	612	DD6	C-C1-C2	-3.52	117.99	122.92
22	O	309	CLA	CMB-C2B-C1B	-3.52	123.05	128.46
22	B	830	CLA	CMB-C2B-C3B	3.52	131.27	124.68
22	T	606	CLA	CMB-C2B-C1B	-3.52	123.05	128.46
24	L	414	DD6	C37-C36-C31	-3.52	119.56	124.35
22	B	837	CLA	CMB-C2B-C1B	-3.52	123.05	128.46
26	W	420	LHG	O7-C7-C8	3.52	119.09	111.50
22	K	608	CLA	CMB-C2B-C1B	-3.52	123.05	128.46
22	A	818	CLA	CMB-C2B-C3B	3.52	131.26	124.68
22	X	412	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
22	K	612	CLA	CMB-C2B-C3B	3.52	131.26	124.68
24	H	315	DD6	C15-C14-C13	-3.52	118.56	125.99
31	W	408	CHL	C1D-ND-C4D	-3.52	103.84	106.33
22	B	803	CLA	CMB-C2B-C1B	-3.51	123.06	128.46
31	W	407	CHL	C1D-ND-C4D	-3.51	103.84	106.33
22	P	606	CLA	CMB-C2B-C3B	3.51	131.25	124.68
22	A	828	CLA	CMB-C2B-C3B	3.51	131.25	124.68
22	P	607	CLA	CMB-C2B-C3B	3.51	131.24	124.68
21	J	103	BCR	C16-C17-C18	-3.51	122.30	127.31
22	K	609	CLA	CMB-C2B-C1B	-3.51	123.07	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	I	613	DD6	C37-C36-C31	-3.51	119.58	124.35
24	P	612	DD6	C7-C6-C5	-3.51	118.01	122.92
24	H	314	DD6	C15-C14-C13	-3.50	118.58	125.99
24	A	858	DD6	O1-C20-C19	-3.50	110.75	113.38
24	W	418	DD6	C37-C36-C31	-3.50	119.59	124.35
22	O	315	CLA	CMB-C2B-C1B	-3.50	123.08	128.46
22	B	824	CLA	CMB-C2B-C3B	3.50	131.23	124.68
22	P	603	CLA	CMB-C2B-C1B	-3.50	123.08	128.46
22	I	601	CLA	CMB-C2B-C1B	-3.50	123.09	128.46
24	N	612	DD6	C37-C36-C31	-3.50	119.59	124.35
22	F	404	CLA	CMB-C2B-C3B	3.50	131.22	124.68
22	B	838	CLA	CMB-C2B-C1B	-3.50	123.09	128.46
22	A	834	CLA	CMB-C2B-C1B	-3.50	123.09	128.46
22	A	836	CLA	CMB-C2B-C1B	-3.50	123.09	128.46
24	O	317	DD6	C15-C14-C13	-3.50	118.60	125.99
22	U	403	CLA	CMB-C2B-C1B	-3.50	123.09	128.46
22	B	835	CLA	CMB-C2B-C3B	3.50	131.22	124.68
22	F	403	CLA	CMB-C2B-C1B	-3.49	123.09	128.46
24	G	613	DD6	C15-C14-C13	-3.49	118.61	125.99
22	S	615	CLA	CMB-C2B-C1B	-3.49	123.09	128.46
22	I	602	CLA	CMB-C2B-C3B	3.49	131.21	124.68
31	U	408	CHL	C1D-ND-C4D	-3.49	103.86	106.33
24	A	858	DD6	C9-C8-C6	-3.49	116.62	126.42
22	N	611	CLA	CMB-C2B-C1B	-3.49	123.11	128.46
22	U	415	CLA	CMB-C2B-C1B	-3.49	123.11	128.46
22	W	405	CLA	CMB-C2B-C1B	-3.49	123.11	128.46
22	A	825	CLA	CMB-C2B-C1B	-3.49	123.11	128.46
22	A	826	CLA	CMB-C2B-C3B	3.48	131.19	124.68
24	Q	614	DD6	C37-C36-C31	-3.48	119.62	124.35
22	N	601	CLA	CMB-C2B-C1B	-3.47	123.12	128.46
22	R	604	CLA	CMB-C2B-C3B	3.47	131.18	124.68
22	A	852	CLA	CMB-C2B-C3B	3.47	131.18	124.68
31	V	605	CHL	C1D-ND-C4D	-3.47	103.87	106.33
22	A	803	CLA	CMB-C2B-C3B	3.47	131.17	124.68
22	B	827	CLA	CMB-C2B-C3B	3.47	131.17	124.68
22	K	605	CLA	CMB-C2B-C1B	-3.47	123.14	128.46
24	H	314	DD6	O1-C20-C19	-3.47	110.78	113.38
22	A	844	CLA	CMB-C2B-C3B	3.47	131.16	124.68
22	Q	611	CLA	CMB-C2B-C3B	3.46	131.16	124.68
22	A	816	CLA	CAA-CBA-CGA	-3.46	103.14	113.25
24	T	612	DD6	C15-C14-C13	-3.46	118.67	125.99
22	V	607	CLA	CMB-C2B-C3B	3.46	131.15	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	U	416	DD6	C3-C2-C1	-3.46	122.37	127.31
22	O	308	CLA	CMB-C2B-C3B	3.46	131.15	124.68
22	A	804	CLA	CMB-C2B-C3B	3.46	131.15	124.68
21	B	843	BCR	C33-C5-C4	3.46	120.26	113.62
21	A	849	BCR	C11-C10-C9	-3.46	122.37	127.31
22	B	802	CLA	CMB-C2B-C1B	-3.46	123.15	128.46
24	X	401	DD6	C37-C36-C31	-3.46	119.65	124.35
22	B	825	CLA	CMB-C2B-C3B	3.46	131.14	124.68
22	H	306	CLA	CMB-C2B-C1B	-3.45	123.15	128.46
22	U	420	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
22	N	602	CLA	CMB-C2B-C3B	3.45	131.14	124.68
24	X	415	DD6	C37-C36-C31	-3.45	119.66	124.35
22	H	311	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
22	A	829	CLA	CMB-C2B-C3B	3.45	131.13	124.68
22	N	608	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
22	W	409	CLA	CMB-C2B-C3B	3.45	131.13	124.68
22	H	318	CLA	CMB-C2B-C3B	3.45	131.13	124.68
21	M	101	BCR	C33-C5-C6	-3.44	120.67	124.53
27	O	322	LMU	C1-O1'-C1'	-3.44	108.14	113.84
24	X	414	DD6	C37-C36-C31	-3.44	119.68	124.35
22	X	419	CLA	CMB-C2B-C1B	-3.44	123.18	128.46
24	B	841	DD6	C37-C36-C31	-3.44	119.68	124.35
22	S	606	CLA	CMB-C2B-C1B	-3.43	123.19	128.46
22	V	611	CLA	CMB-C2B-C1B	-3.43	123.19	128.46
22	B	818	CLA	CMB-C2B-C3B	3.43	131.10	124.68
22	H	302	CLA	CMB-C2B-C1B	-3.43	123.19	128.46
22	A	805	CLA	CMB-C2B-C3B	3.43	131.09	124.68
22	U	413	CLA	CMB-C2B-C3B	3.43	131.09	124.68
22	X	409	CLA	CMB-C2B-C3B	3.43	131.09	124.68
22	Q	618	CLA	CMB-C2B-C1B	-3.43	123.20	128.46
28	I	615	LMG	C6-C5-C4	-3.43	108.76	113.54
22	N	606	CLA	CMB-C2B-C1B	-3.42	123.20	128.46
22	S	608	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
22	U	406	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
22	A	817	CLA	CMB-C2B-C3B	3.42	131.07	124.68
31	W	422	CHL	C1D-ND-C4D	-3.42	103.91	106.33
22	O	311	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
22	R	608	CLA	CMB-C2B-C1B	-3.42	123.22	128.46
22	Q	610	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
22	H	307	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
22	R	610	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
22	W	414	CLA	CMB-C2B-C1B	-3.41	123.23	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	Q	607	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
25	B	847	DGD	O2G-C1B-C2B	3.41	118.84	111.50
22	A	820	CLA	CMB-C2B-C3B	3.41	131.05	124.68
24	X	416	DD6	C10-C9-C8	-3.40	112.60	123.22
22	U	409	CLA	CMB-C2B-C3B	3.40	131.04	124.68
22	A	814	CLA	CMB-C2B-C3B	3.40	131.04	124.68
22	A	841	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
21	B	846	BCR	C33-C5-C6	-3.40	120.71	124.53
22	P	610	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
24	T	613	DD6	C4-C5-C6	-3.39	122.47	127.31
24	U	416	DD6	C9-C10-C11	-3.39	122.47	127.31
22	X	404	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
22	B	859	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
21	A	851	BCR	C34-C9-C10	-3.39	118.17	122.92
22	N	603	CLA	CMB-C2B-C3B	3.39	131.02	124.68
24	K	615	DD6	O1-C20-C19	-3.39	110.84	113.38
22	K	613	CLA	CMB-C2B-C1B	-3.39	123.26	128.46
22	A	842	CLA	CMB-C2B-C1B	-3.38	123.26	128.46
24	T	612	DD6	O1-C20-C19	-3.38	110.84	113.38
22	I	606	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
22	V	610	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
22	I	611	CLA	O2D-CGD-O1D	-3.38	117.23	123.84
24	T	613	DD6	C37-C36-C31	-3.38	119.76	124.35
22	R	602	CLA	CMB-C2B-C3B	3.38	131.00	124.68
22	A	833	CLA	CMB-C2B-C3B	3.38	131.00	124.68
22	Q	601	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
22	L	409	CLA	CMB-C2B-C1B	-3.38	123.28	128.46
22	H	309	CLA	CMB-C2B-C1B	-3.38	123.28	128.46
21	B	846	BCR	C15-C14-C13	-3.37	122.49	127.31
22	B	805	CLA	CMB-C2B-C3B	3.37	130.99	124.68
22	P	608	CLA	CMB-C2B-C1B	-3.37	123.28	128.46
22	S	610	CLA	CMB-C2B-C1B	-3.37	123.28	128.46
22	R	606	CLA	CMB-C2B-C3B	3.37	130.99	124.68
22	B	833	CLA	CMB-C2B-C1B	-3.37	123.28	128.46
24	X	416	DD6	C37-C36-C31	-3.37	119.77	124.35
22	N	607	CLA	CMB-C2B-C3B	3.37	130.98	124.68
22	F	405	CLA	CMB-C2B-C1B	-3.37	123.29	128.46
22	A	837	CLA	CMB-C2B-C1B	-3.36	123.30	128.46
33	A	802	CL0	C1C-C2C-C3C	-3.36	103.42	106.96
22	S	614	CLA	CMB-C2B-C3B	3.36	130.97	124.68
22	B	820	CLA	CMB-C2B-C3B	3.36	130.96	124.68
24	A	859	DD6	C37-C36-C31	-3.36	119.78	124.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	V	608	CLA	CMB-C2B-C1B	-3.36	123.30	128.46
22	O	306	CLA	CMB-C2B-C3B	3.36	130.96	124.68
22	I	608	CLA	CMB-C2B-C1B	-3.35	123.31	128.46
22	V	617	CLA	CMB-C2B-C1B	-3.35	123.31	128.46
24	L	415	DD6	C37-C36-C31	-3.35	119.80	124.35
22	V	613	CLA	CMB-C2B-C1B	-3.35	123.31	128.46
22	A	801	CLA	CMB-C2B-C3B	3.35	130.94	124.68
24	A	859	DD6	C15-C14-C13	-3.34	118.92	125.99
22	B	839	CLA	CMB-C2B-C3B	3.34	130.94	124.68
22	I	607	CLA	CMB-C2B-C3B	3.34	130.94	124.68
22	H	313	CLA	CMB-C2B-C1B	-3.34	123.33	128.46
22	I	605	CLA	CMB-C2B-C3B	3.34	130.93	124.68
22	V	601	CLA	CMB-C2B-C1B	-3.34	123.33	128.46
24	N	612	DD6	C9-C10-C11	-3.34	122.54	127.31
21	J	103	BCR	C33-C5-C6	-3.34	120.78	124.53
24	I	612	DD6	C4-C5-C6	-3.34	122.55	127.31
22	W	402	CLA	CMB-C2B-C3B	3.34	130.92	124.68
24	P	613	DD6	C4-C5-C6	-3.33	122.55	127.31
24	L	415	DD6	C14-C13-C11	-3.33	120.36	125.53
22	W	411	CLA	CMB-C2B-C3B	3.33	130.91	124.68
21	J	103	BCR	C3-C4-C5	-3.33	108.13	114.08
22	A	830	CLA	CMB-C2B-C3B	3.33	130.90	124.68
22	K	607	CLA	CMB-C2B-C1B	-3.32	123.35	128.46
22	A	824	CLA	O2D-CGD-O1D	-3.32	117.34	123.84
22	S	607	CLA	CMB-C2B-C3B	3.32	130.90	124.68
24	J	105	DD6	C3-C2-C1	-3.32	122.57	127.31
21	J	103	BCR	C28-C27-C26	-3.32	108.15	114.08
24	A	858	DD6	C37-C36-C31	-3.32	119.84	124.35
24	S	612	DD6	O1-C20-C19	-3.32	110.89	113.38
22	K	602	CLA	CMB-C2B-C3B	3.32	130.88	124.68
22	Q	613	CLA	O2D-CGD-O1D	-3.31	117.36	123.84
24	V	615	DD6	C15-C14-C13	-3.31	118.99	125.99
22	G	609	CLA	CMB-C2B-C3B	3.31	130.88	124.68
24	G	612	DD6	C3-C2-C1	-3.31	122.59	127.31
22	B	830	CLA	O2D-CGD-O1D	-3.31	117.37	123.84
21	M	101	BCR	C11-C10-C9	-3.31	122.59	127.31
24	P	613	DD6	C37-C36-C31	-3.31	119.85	124.35
22	T	601	CLA	CMB-C2B-C3B	3.31	130.87	124.68
22	G	601	CLA	CMB-C2B-C3B	3.30	130.86	124.68
22	B	829	CLA	CMB-C2B-C1B	-3.30	123.39	128.46
22	B	813	CLA	CMB-C2B-C3B	3.30	130.85	124.68
22	I	603	CLA	CMB-C2B-C3B	3.30	130.85	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	O	307	CLA	CMB-C2B-C3B	3.30	130.85	124.68
22	N	609	CLA	CMB-C2B-C3B	3.30	130.85	124.68
22	S	610	CLA	CAA-C2A-C3A	-3.30	103.75	112.78
22	B	815	CLA	CMB-C2B-C3B	3.30	130.84	124.68
22	T	603	CLA	CMB-C2B-C3B	3.30	130.84	124.68
24	P	612	DD6	C12-C11-C10	-3.29	118.31	122.92
24	G	613	DD6	C4-C5-C6	-3.29	122.61	127.31
22	V	602	CLA	CMB-C2B-C1B	-3.29	123.40	128.46
24	S	612	DD6	C37-C36-C31	-3.29	119.88	124.35
22	B	812	CLA	CMB-C2B-C3B	3.29	130.83	124.68
22	L	411	CLA	CMB-C2B-C3B	3.29	130.83	124.68
22	B	808	CLA	CMB-C2B-C3B	3.29	130.83	124.68
22	B	824	CLA	O2D-CGD-O1D	-3.28	117.42	123.84
22	B	828	CLA	O2D-CGD-O1D	-3.28	117.42	123.84
21	A	851	BCR	C24-C23-C22	-3.28	121.28	126.23
22	B	807	CLA	CMB-C2B-C1B	-3.28	123.42	128.46
24	W	417	DD6	C3-C2-C1	-3.28	122.63	127.31
22	P	611	CLA	CMB-C2B-C3B	3.28	130.81	124.68
22	A	808	CLA	CMB-C2B-C3B	3.28	130.81	124.68
22	P	609	CLA	CMB-C2B-C3B	3.28	130.81	124.68
22	A	827	CLA	CMB-C2B-C3B	3.27	130.80	124.68
22	K	611	CLA	CMB-C2B-C3B	3.27	130.80	124.68
22	U	411	CLA	CMB-C2B-C3B	3.27	130.80	124.68
22	N	604	CLA	CMB-C2B-C3B	3.27	130.79	124.68
24	S	612	DD6	C15-C14-C13	-3.27	119.09	125.99
24	O	316	DD6	C3-C2-C1	-3.27	122.65	127.31
21	B	843	BCR	C34-C9-C10	-3.27	118.35	122.92
22	X	408	CLA	CMB-C2B-C3B	3.27	130.79	124.68
22	L	412	CLA	CMB-C2B-C3B	3.26	130.78	124.68
21	B	845	BCR	C28-C27-C26	-3.26	108.25	114.08
21	A	848	BCR	C38-C26-C25	-3.26	120.87	124.53
22	B	817	CLA	CMB-C2B-C3B	3.26	130.77	124.68
22	T	602	CLA	CMB-C2B-C3B	3.25	130.77	124.68
22	B	821	CLA	CMB-C2B-C3B	3.25	130.76	124.68
22	B	803	CLA	O2D-CGD-O1D	-3.25	117.49	123.84
22	H	303	CLA	CMB-C2B-C3B	3.24	130.75	124.68
22	K	606	CLA	CMB-C2B-C3B	3.24	130.75	124.68
22	P	605	CLA	CMB-C2B-C3B	3.24	130.75	124.68
22	O	314	CLA	CMB-C2B-C3B	3.24	130.75	124.68
22	A	812	CLA	CMB-C2B-C3B	3.24	130.75	124.68
22	W	406	CLA	CMB-C2B-C3B	3.24	130.74	124.68
22	U	403	CLA	O2D-CGD-O1D	-3.24	117.51	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	L	404	CLA	CMB-C2B-C3B	3.24	130.74	124.68
22	K	610	CLA	CMB-C2B-C3B	3.24	130.73	124.68
24	X	416	DD6	C37-C36-C35	3.23	120.35	114.36
24	O	316	DD6	C9-C10-C11	-3.23	122.69	127.31
22	Q	609	CLA	CMB-C2B-C3B	3.23	130.73	124.68
24	N	613	DD6	C4-C5-C6	-3.23	122.70	127.31
24	W	418	DD6	C15-C14-C13	-3.23	119.17	125.99
22	A	806	CLA	CMB-C2B-C3B	3.23	130.72	124.68
24	W	416	DD6	C9-C10-C11	-3.23	122.70	127.31
22	S	609	CLA	CMB-C2B-C1B	-3.22	123.51	128.46
24	K	614	DD6	C15-C14-C13	-3.22	119.18	125.99
22	O	313	CLA	CMB-C2B-C3B	3.22	130.70	124.68
22	W	415	CLA	CMB-C2B-C3B	3.22	130.70	124.68
22	L	410	CLA	CMB-C2B-C3B	3.22	130.70	124.68
24	L	414	DD6	C15-C14-C13	-3.22	119.19	125.99
22	H	312	CLA	CMB-C2B-C3B	3.21	130.69	124.68
22	Q	613	CLA	CMB-C2B-C1B	-3.21	123.52	128.46
22	S	609	CLA	O2D-CGD-O1D	-3.21	117.56	123.84
21	B	846	BCR	C3-C4-C5	-3.21	108.34	114.08
24	S	612	DD6	C9-C10-C11	-3.21	122.73	127.31
28	U	402	LMG	O6-C1-O1	-3.21	102.37	109.97
24	V	615	DD6	C9-C10-C11	-3.21	122.73	127.31
22	B	822	CLA	CMB-C2B-C3B	3.21	130.68	124.68
22	P	608	CLA	O2D-CGD-O1D	-3.21	117.57	123.84
21	A	849	BCR	C7-C8-C9	-3.21	121.39	126.23
22	T	610	CLA	CMB-C2B-C1B	-3.21	123.53	128.46
21	A	848	BCR	C20-C21-C22	-3.21	122.73	127.31
21	M	101	BCR	C30-C25-C26	-3.21	118.10	122.61
21	J	103	BCR	C11-C10-C9	-3.20	122.74	127.31
24	X	414	DD6	O1-C20-C19	-3.20	110.98	113.38
24	I	612	DD6	C3-C2-C1	-3.20	122.74	127.31
25	B	847	DGD	O1G-C1A-C2A	3.20	121.95	111.91
22	V	604	CLA	CMB-C2B-C3B	3.20	130.66	124.68
24	X	416	DD6	C7-C6-C5	-3.20	118.45	122.92
22	Q	612	CLA	CMB-C2B-C3B	3.20	130.66	124.68
22	T	604	CLA	CMB-C2B-C3B	3.19	130.65	124.68
22	X	407	CLA	CMB-C2B-C3B	3.19	130.65	124.68
21	B	842	BCR	C7-C8-C9	-3.19	121.42	126.23
31	V	606	CHL	C1B-CHB-C4A	-3.19	123.80	130.12
22	P	610	CLA	O2D-CGD-O1D	-3.19	117.61	123.84
22	P	602	CLA	CMB-C2B-C3B	3.19	130.64	124.68
24	W	417	DD6	C37-C36-C31	-3.18	120.02	124.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	L	417	CLA	CMB-C2B-C3B	3.18	130.64	124.68
22	A	810	CLA	O2D-CGD-O1D	-3.18	117.61	123.84
21	J	103	BCR	C7-C8-C9	-3.18	121.43	126.23
22	S	601	CLA	CMB-C2B-C3B	3.18	130.63	124.68
22	O	319	CLA	CMB-C2B-C3B	3.18	130.63	124.68
22	B	823	CLA	CMB-C2B-C3B	3.18	130.63	124.68
22	A	823	CLA	CMB-C2B-C3B	3.18	130.63	124.68
22	H	310	CLA	CMB-C2B-C3B	3.18	130.62	124.68
22	A	838	CLA	O2D-CGD-O1D	-3.18	117.62	123.84
22	B	809	CLA	CMB-C2B-C3B	3.18	130.62	124.68
24	X	416	DD6	C4-C3-C2	-3.18	116.96	123.47
22	L	402	CLA	CMB-C2B-C3B	3.18	130.62	124.68
22	A	835	CLA	O2D-CGD-O1D	-3.18	117.63	123.84
24	N	612	DD6	C15-C14-C13	-3.17	119.28	125.99
21	B	845	BCR	C38-C26-C25	-3.17	120.96	124.53
22	O	305	CLA	CMB-C2B-C3B	3.17	130.62	124.68
22	A	831	CLA	CMB-C2B-C3B	3.17	130.61	124.68
21	A	849	BCR	C33-C5-C6	-3.17	120.97	124.53
22	L	407	CLA	CMB-C2B-C3B	3.17	130.61	124.68
22	Q	604	CLA	CMB-C2B-C3B	3.17	130.61	124.68
22	B	816	CLA	CMB-C2B-C3B	3.17	130.61	124.68
22	G	605	CLA	CMB-C2B-C3B	3.17	130.61	124.68
22	U	414	CLA	CMB-C2B-C3B	3.17	130.60	124.68
22	X	405	CLA	CMB-C2B-C3B	3.17	130.60	124.68
22	A	807	CLA	CMB-C2B-C3B	3.17	130.60	124.68
22	A	840	CLA	CMB-C2B-C3B	3.17	130.60	124.68
22	U	410	CLA	CMB-C2B-C3B	3.16	130.60	124.68
22	A	816	CLA	CMB-C2B-C3B	3.16	130.60	124.68
22	S	604	CLA	CMB-C2B-C3B	3.16	130.59	124.68
21	A	851	BCR	C38-C26-C27	3.16	119.69	113.62
22	B	804	CLA	O2D-CGD-O1D	-3.16	117.66	123.84
22	G	611	CLA	CMB-C2B-C3B	3.15	130.58	124.68
22	A	809	CLA	CMB-C2B-C3B	3.15	130.58	124.68
22	G	608	CLA	CMB-C2B-C3B	3.15	130.57	124.68
24	O	317	DD6	C4-C5-C6	-3.15	122.81	127.31
31	U	408	CHL	C1B-CHB-C4A	-3.15	123.88	130.12
22	Q	606	CLA	CMB-C2B-C3B	3.15	130.57	124.68
22	W	404	CLA	CMB-C2B-C3B	3.15	130.57	124.68
22	S	605	CLA	CMB-C2B-C3B	3.15	130.57	124.68
22	I	604	CLA	CMB-C2B-C3B	3.15	130.57	124.68
22	U	405	CLA	CMB-C2B-C3B	3.15	130.57	124.68
22	B	826	CLA	CMB-C2B-C3B	3.15	130.56	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	G	610	CLA	CMB-C2B-C3B	3.14	130.56	124.68
22	A	835	CLA	CMB-C2B-C3B	3.14	130.56	124.68
22	B	835	CLA	O2D-CGD-O1D	-3.14	117.70	123.84
22	A	806	CLA	O2D-CGD-O1D	-3.14	117.70	123.84
24	O	316	DD6	C4-C5-C6	-3.14	122.83	127.31
25	O	304	DGD	O1G-C1A-C2A	3.14	121.75	111.91
22	B	819	CLA	O2D-CGD-O1D	-3.14	117.70	123.84
21	B	843	BCR	C37-C22-C21	-3.14	118.53	122.92
22	G	603	CLA	CMB-C2B-C3B	3.14	130.54	124.68
22	W	413	CLA	CMB-C2B-C3B	3.13	130.54	124.68
25	F	401	DGD	O1G-C1A-C2A	3.13	121.74	111.91
22	K	603	CLA	CMB-C2B-C3B	3.13	130.54	124.68
24	K	614	DD6	C3-C2-C1	-3.13	122.85	127.31
22	A	838	CLA	CMB-C2B-C3B	3.12	130.52	124.68
22	G	603	CLA	O2D-CGD-O1D	-3.12	117.73	123.84
22	P	604	CLA	CMB-C2B-C3B	3.12	130.52	124.68
22	V	609	CLA	CMB-C2B-C3B	3.12	130.52	124.68
22	A	842	CLA	O2D-CGD-O1D	-3.12	117.74	123.84
22	J	102	CLA	CMB-C2B-C3B	3.12	130.51	124.68
22	H	313	CLA	O2D-CGD-O1D	-3.12	117.74	123.84
22	W	415	CLA	O2D-CGD-O1D	-3.12	117.75	123.84
21	B	842	BCR	C3-C4-C5	-3.11	108.52	114.08
24	A	847	DD6	C37-C36-C31	-3.11	120.12	124.35
22	L	405	CLA	CMB-C2B-C3B	3.11	130.50	124.68
22	A	824	CLA	CMB-C2B-C1B	-3.11	123.69	128.46
22	W	410	CLA	CMB-C2B-C3B	3.11	130.49	124.68
24	F	406	DD6	C-C1-C2	-3.10	118.57	122.92
22	T	608	CLA	O2D-CGD-O1D	-3.10	117.77	123.84
24	N	612	DD6	O1-C20-C19	-3.10	111.05	113.38
22	R	603	CLA	CMB-C2B-C3B	3.10	130.48	124.68
24	R	612	DD6	C15-C14-C13	-3.10	119.43	125.99
22	W	419	CLA	CMB-C2B-C3B	3.10	130.48	124.68
28	F	408	LMG	O6-C5-C4	3.10	115.33	109.69
31	V	605	CHL	C1B-CHB-C4A	-3.10	123.98	130.12
22	U	405	CLA	O2D-CGD-O1D	-3.10	117.78	123.84
22	L	408	CLA	CHD-C1D-ND	-3.10	121.61	124.45
31	X	406	CHL	C1B-CHB-C4A	-3.09	123.99	130.12
21	B	844	BCR	C20-C21-C22	-3.09	122.89	127.31
22	B	832	CLA	O2D-CGD-O1D	-3.09	117.79	123.84
22	X	402	CLA	CMB-C2B-C3B	3.09	130.47	124.68
24	I	613	DD6	C4-C5-C6	-3.09	122.89	127.31
24	I	613	DD6	C9-C10-C11	-3.09	122.90	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	816	CLA	O2D-CGD-CBD	3.09	116.76	111.27
22	B	836	CLA	O2D-CGD-O1D	-3.09	117.80	123.84
22	L	408	CLA	CMB-C2B-C3B	3.09	130.46	124.68
24	L	414	DD6	C4-C5-C6	-3.09	122.90	127.31
24	J	105	DD6	C21-C20-C19	3.09	117.75	114.28
31	U	407	CHL	C1B-CHB-C4A	-3.08	124.01	130.12
21	A	849	BCR	C3-C4-C5	-3.08	108.57	114.08
33	A	802	CL0	C3D-C4D-ND	3.08	115.22	110.24
24	H	314	DD6	C9-C10-C11	-3.08	122.91	127.31
22	A	822	CLA	CMB-C2B-C3B	3.08	130.44	124.68
21	B	842	BCR	C28-C27-C26	-3.08	108.58	114.08
22	B	810	CLA	CMB-C2B-C3B	3.07	130.43	124.68
24	S	611	DD6	C4-C5-C6	-3.07	122.92	127.31
22	A	811	CLA	CAA-C2A-C3A	-3.07	104.36	112.78
22	A	821	CLA	CMB-C2B-C3B	3.07	130.43	124.68
22	R	611	CLA	CMB-C2B-C3B	3.07	130.43	124.68
22	B	831	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
24	U	416	DD6	C15-C14-C13	-3.07	119.50	125.99
22	Q	617	CLA	CMB-C2B-C3B	3.07	130.42	124.68
22	B	817	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
22	A	833	CLA	O2D-CGD-O1D	-3.07	117.84	123.84
24	I	613	DD6	C37-C36-C35	3.07	120.04	114.36
24	X	414	DD6	C15-C14-C13	-3.07	119.50	125.99
22	A	844	CLA	O2D-CGD-O1D	-3.07	117.84	123.84
24	P	612	DD6	C8-C6-C5	3.07	123.65	118.94
22	O	310	CLA	CMB-C2B-C3B	3.06	130.41	124.68
28	H	319	LMG	O6-C1-O1	-3.06	102.72	109.97
24	R	613	DD6	C3-C4-C5	-3.06	117.20	123.47
24	Q	615	DD6	C4-C5-C6	-3.06	122.94	127.31
22	B	819	CLA	CMB-C2B-C1B	-3.06	123.76	128.46
22	A	819	CLA	CMB-C2B-C1B	-3.06	123.76	128.46
22	G	607	CLA	CMB-C2B-C3B	3.06	130.40	124.68
22	U	401	CLA	CMB-C2B-C3B	3.06	130.40	124.68
22	X	413	CLA	CMB-C2B-C3B	3.06	130.39	124.68
24	I	612	DD6	C37-C36-C31	-3.05	120.20	124.35
22	B	827	CLA	O2D-CGD-O1D	-3.05	117.87	123.84
22	A	827	CLA	O2D-CGD-O1D	-3.05	117.87	123.84
22	A	810	CLA	CMB-C2B-C3B	3.05	130.39	124.68
24	X	414	DD6	C9-C10-C11	-3.05	122.96	127.31
22	O	307	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
24	R	613	DD6	C4-C5-C6	-3.05	122.96	127.31
22	T	611	CLA	CMB-C2B-C3B	3.05	130.38	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	815	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
21	B	843	BCR	C38-C26-C27	3.04	119.46	113.62
24	N	613	DD6	C15-C14-C13	-3.04	119.56	125.99
22	T	605	CLA	CMB-C2B-C3B	3.04	130.37	124.68
22	Q	604	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
22	B	812	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
22	B	813	CLA	O2D-CGD-O1D	-3.04	117.90	123.84
22	I	603	CLA	O2D-CGD-O1D	-3.04	117.90	123.84
24	U	417	DD6	C3-C2-C1	-3.04	122.98	127.31
24	T	612	DD6	C3-C4-C5	-3.04	117.25	123.47
22	S	614	CLA	O2D-CGD-O1D	-3.03	117.91	123.84
24	L	413	DD6	C9-C10-C11	-3.03	122.98	127.31
22	V	612	CLA	CMB-C2B-C1B	-3.03	123.80	128.46
24	K	615	DD6	C3-C2-C1	-3.03	122.98	127.31
24	U	416	DD6	C37-C36-C31	-3.03	120.23	124.35
33	A	802	CL0	C1D-ND-C4D	-3.03	104.18	106.33
24	L	413	DD6	C15-C14-C13	-3.03	119.59	125.99
22	B	811	CLA	O2D-CGD-O1D	-3.03	117.92	123.84
22	P	603	CLA	CMB-C2B-C3B	3.03	130.34	124.68
22	B	814	CLA	O2D-CGD-O1D	-3.03	117.92	123.84
21	A	851	BCR	C33-C5-C6	-3.02	121.13	124.53
22	Q	618	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
22	A	808	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
22	A	828	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
22	B	807	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
31	W	407	CHL	C1B-CHB-C4A	-3.02	124.14	130.12
22	N	605	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
22	A	821	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
22	B	806	CLA	O2D-CGD-O1D	-3.02	117.94	123.84
28	W	401	LMG	O6-C1-O1	-3.02	102.83	109.97
22	R	605	CLA	CMB-C2B-C3B	3.01	130.32	124.68
22	V	617	CLA	O2D-CGD-O1D	-3.01	117.94	123.84
22	X	410	CLA	O2D-CGD-O1D	-3.01	117.94	123.84
24	B	841	DD6	C25-C26-C27	-3.01	117.83	126.58
22	B	836	CLA	CMB-C2B-C3B	3.01	130.32	124.68
22	A	840	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
22	T	608	CLA	CMB-C2B-C3B	3.01	130.31	124.68
24	G	612	DD6	C15-C14-C13	-3.01	119.62	125.99
22	A	852	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
21	J	103	BCR	C24-C23-C22	-3.01	121.68	126.23
22	A	801	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
22	B	832	CLA	CMB-C2B-C3B	3.01	130.31	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	830	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
22	U	412	CLA	CMB-C2B-C3B	3.01	130.31	124.68
22	A	813	CLA	CMB-C2B-C3B	3.01	130.31	124.68
22	A	814	CLA	O2D-CGD-O1D	-3.00	117.96	123.84
24	H	315	DD6	O1-C20-C21	-3.00	111.46	115.06
22	L	412	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
25	F	401	DGD	C2G-O2G-C1B	-3.00	110.40	117.79
22	A	825	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
24	I	612	DD6	C9-C10-C11	-3.00	123.03	127.31
22	A	823	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
22	B	834	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
22	P	611	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
22	T	604	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
22	T	601	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
22	O	312	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
24	X	416	DD6	C3-C2-C1	-2.99	123.04	127.31
22	F	405	CLA	O2D-CGD-O1D	-2.99	117.98	123.84
24	W	416	DD6	C33-C34-C35	-2.99	106.21	110.30
22	J	102	CLA	O2D-CGD-O1D	-2.99	117.99	123.84
22	Q	605	CLA	O2D-CGD-O1D	-2.99	117.99	123.84
24	P	612	DD6	O1-C20-C21	-2.99	111.47	115.06
22	L	406	CLA	CMB-C2B-C3B	2.99	130.27	124.68
22	A	817	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
24	B	841	DD6	C15-C14-C13	-2.99	119.68	125.99
22	A	809	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
22	G	602	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
22	R	615	CLA	CMB-C2B-C3B	2.99	130.26	124.68
24	X	415	DD6	C3-C2-C1	-2.98	123.05	127.31
24	A	859	DD6	C9-C10-C11	-2.98	123.05	127.31
22	U	406	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
22	X	404	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
31	W	422	CHL	C1B-CHB-C4A	-2.98	124.21	130.12
22	I	602	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
22	K	604	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
22	P	606	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
22	R	601	CLA	CMB-C2B-C3B	2.98	130.25	124.68
24	R	613	DD6	C37-C36-C35	2.98	119.87	114.36
21	B	843	BCR	C33-C5-C6	-2.98	121.19	124.53
22	L	407	CLA	O2D-CGD-O1D	-2.98	118.02	123.84
22	W	403	CLA	O2D-CGD-O1D	-2.98	118.02	123.84
22	A	803	CLA	C1B-CHB-C4A	-2.98	124.22	130.12
22	T	610	CLA	O2D-CGD-O1D	-2.98	118.02	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	R	613	DD6	O1-C20-C19	-2.98	111.15	113.38
22	I	610	CLA	CMB-C2B-C3B	2.97	130.24	124.68
22	U	415	CLA	O2D-CGD-O1D	-2.97	118.02	123.84
22	A	807	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
22	B	823	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
22	G	605	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
22	A	826	CLA	O2D-CGD-O1D	-2.97	118.04	123.84
22	A	834	CLA	O2D-CGD-O1D	-2.97	118.04	123.84
24	K	615	DD6	C37-C36-C31	-2.97	120.32	124.35
23	A	843	PQN	C14-C13-C15	2.97	120.26	115.27
22	L	417	CLA	O2D-CGD-O1D	-2.96	118.04	123.84
22	B	838	CLA	O2D-CGD-O1D	-2.96	118.04	123.84
21	B	842	BCR	C27-C26-C25	-2.96	118.43	122.73
22	W	409	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
22	B	809	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
22	S	601	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
24	P	613	DD6	C9-C10-C11	-2.96	123.08	127.31
22	G	609	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
22	T	602	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
21	B	801	BCR	C3-C4-C5	-2.96	108.79	114.08
22	W	404	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
22	K	608	CLA	CHD-C1D-ND	-2.96	121.73	124.45
22	T	605	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
22	B	859	CLA	O2D-CGD-O1D	-2.96	118.06	123.84
22	S	615	CLA	O2D-CGD-O1D	-2.96	118.06	123.84
22	W	412	CLA	CMB-C2B-C3B	2.96	130.21	124.68
22	L	409	CLA	O2D-CGD-O1D	-2.95	118.06	123.84
22	X	403	CLA	CMB-C2B-C3B	2.95	130.20	124.68
22	B	825	CLA	O2D-CGD-O1D	-2.95	118.06	123.84
22	B	826	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
22	N	603	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
22	B	810	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
33	A	802	CL0	C4A-NA-C1A	-2.95	105.38	106.71
22	B	829	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
22	N	604	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
22	W	405	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
22	V	602	CLA	O2D-CGD-O1D	-2.94	118.08	123.84
24	K	614	DD6	C37-C36-C35	2.94	119.81	114.36
22	A	830	CLA	C1B-CHB-C4A	-2.94	124.29	130.12
24	I	612	DD6	C15-C14-C13	-2.94	119.77	125.99
22	W	419	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
21	A	849	BCR	C33-C5-C4	2.94	119.26	113.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	R	606	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
22	K	617	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
22	T	603	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
22	U	413	CLA	O2D-CGD-O1D	-2.93	118.10	123.84
22	A	837	CLA	O2D-CGD-O1D	-2.93	118.10	123.84
24	X	401	DD6	C15-C14-C13	-2.93	119.79	125.99
22	H	311	CLA	O2D-CGD-O1D	-2.93	118.10	123.84
22	G	604	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
31	W	408	CHL	C1B-CHB-C4A	-2.93	124.31	130.12
22	B	816	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
22	K	611	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
22	X	419	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
22	Q	603	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
22	O	309	CLA	CMB-C2B-C3B	2.93	130.15	124.68
22	L	406	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
22	X	409	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
22	X	408	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
22	B	820	CLA	CHB-C4A-NA	2.92	128.56	124.51
22	U	409	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
22	B	821	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
22	O	306	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
22	S	602	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
22	G	607	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
22	K	613	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
22	B	803	CLA	CMB-C2B-C3B	2.92	130.14	124.68
22	O	315	CLA	CMB-C2B-C3B	2.92	130.14	124.68
22	B	833	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
22	V	613	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
22	K	612	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
22	K	603	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
22	A	820	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
24	F	406	DD6	C25-C24-C1	-2.92	118.22	126.42
24	G	612	DD6	C9-C10-C11	-2.91	123.15	127.31
22	S	603	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
22	U	412	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
22	I	604	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
22	A	812	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
22	O	315	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
22	O	311	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
22	T	609	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
24	Q	614	DD6	C9-C10-C11	-2.91	123.16	127.31
22	V	608	CLA	CMB-C2B-C3B	2.91	130.12	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	845	BCR	C15-C16-C17	-2.91	117.52	123.47
22	U	420	CLA	O2D-CGD-O1D	-2.91	118.16	123.84
22	A	813	CLA	O2D-CGD-O1D	-2.91	118.16	123.84
22	B	827	CLA	C1B-CHB-C4A	-2.91	124.36	130.12
22	A	818	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
22	K	610	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
22	W	403	CLA	CMB-C2B-C3B	2.90	130.11	124.68
22	O	310	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
22	H	309	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
22	L	405	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
22	K	609	CLA	CMB-C2B-C3B	2.90	130.10	124.68
21	B	843	BCR	C4-C5-C6	-2.90	118.53	122.73
22	A	836	CLA	O2D-CGD-O1D	-2.90	118.18	123.84
22	B	837	CLA	O2D-CGD-O1D	-2.90	118.18	123.84
22	R	603	CLA	O2D-CGD-O1D	-2.90	118.18	123.84
22	A	834	CLA	CMB-C2B-C3B	2.90	130.09	124.68
22	Q	606	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
22	A	832	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
22	B	818	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
22	A	825	CLA	CMB-C2B-C3B	2.89	130.09	124.68
22	G	608	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
22	H	305	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
22	L	403	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
22	A	820	CLA	C1B-CHB-C4A	-2.89	124.39	130.12
22	R	607	CLA	CMB-C2B-C1B	-2.89	124.02	128.46
22	V	601	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
22	V	603	CLA	C1B-CHB-C4A	-2.89	124.39	130.12
21	A	850	BCR	C7-C8-C9	-2.89	121.87	126.23
24	A	858	DD6	C7-C6-C5	-2.89	118.87	122.92
22	P	604	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
22	N	601	CLA	CMB-C2B-C3B	2.89	130.08	124.68
22	R	604	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
22	S	610	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
22	O	314	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
24	Q	614	DD6	C15-C14-C13	-2.89	119.89	125.99
22	A	811	CLA	O2D-CGD-O1D	-2.89	118.20	123.84
28	B	852	LMG	O6-C1-O1	-2.88	103.14	109.97
22	F	404	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
22	U	404	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
22	X	405	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
24	K	614	DD6	O1-C20-C19	-2.88	111.22	113.38
22	H	307	CLA	O2D-CGD-O1D	-2.88	118.20	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	859	CLA	CMB-C2B-C3B	2.88	130.07	124.68
22	A	831	CLA	O2D-CGD-CBD	2.88	116.39	111.27
21	B	801	BCR	C24-C23-C22	-2.88	121.89	126.23
21	B	801	BCR	C15-C16-C17	-2.88	117.58	123.47
24	K	614	DD6	C9-C10-C11	-2.88	123.21	127.31
21	M	101	BCR	C38-C26-C27	2.88	119.14	113.62
22	R	615	CLA	O2D-CGD-O1D	-2.87	118.22	123.84
22	B	802	CLA	O2A-CGA-O1A	-2.87	116.34	123.59
22	H	306	CLA	CMB-C2B-C3B	2.87	130.05	124.68
22	K	605	CLA	CMB-C2B-C3B	2.87	130.05	124.68
22	N	602	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
22	A	804	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
22	I	607	CLA	C1-C2-C3	-2.86	121.09	126.04
33	A	802	CL0	C1B-CHB-C4A	-2.86	124.44	130.12
22	L	411	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
22	Q	611	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
22	Q	601	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
24	P	613	DD6	C15-C14-C13	-2.86	119.94	125.99
22	H	306	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
22	T	611	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
22	U	410	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
22	T	606	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
22	L	404	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
22	B	838	CLA	CMB-C2B-C3B	2.86	130.02	124.68
22	A	842	CLA	CAA-C2A-C3A	-2.86	104.95	112.78
22	O	308	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
22	W	413	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
22	H	303	CLA	O2D-CGD-O1D	-2.86	118.26	123.84
22	S	608	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
22	U	415	CLA	CMB-C2B-C3B	2.85	130.02	124.68
22	N	611	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
22	I	610	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
22	U	411	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
24	H	315	DD6	O1-C20-C19	-2.85	111.24	113.38
22	G	608	CLA	C11-C10-C8	-2.85	106.71	115.92
22	G	601	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
22	G	611	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
24	R	613	DD6	O1-C20-C21	-2.85	111.64	115.06
22	N	611	CLA	CMB-C2B-C3B	2.85	130.00	124.68
22	A	841	CLA	CMB-C2B-C3B	2.85	130.00	124.68
31	W	422	CHL	CMB-C2B-C1B	-2.85	124.09	128.46
22	X	413	CLA	O2D-CGD-O1D	-2.85	118.27	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	H	310	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
22	W	412	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
24	R	613	DD6	C10-C9-C8	-2.85	114.34	123.22
22	X	402	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
31	V	606	CHL	CMB-C2B-C1B	-2.84	124.09	128.46
22	O	309	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
24	T	613	DD6	C15-C14-C13	-2.84	119.98	125.99
22	N	610	CLA	CAA-C2A-C3A	-2.84	105.00	112.78
22	V	607	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
22	N	610	CLA	CHB-C4A-NA	2.84	128.44	124.51
22	A	836	CLA	CMB-C2B-C3B	2.84	129.99	124.68
27	J	104	LMU	C6B-C5B-C4B	-2.84	109.58	113.54
22	A	822	CLA	O2D-CGD-O1D	-2.84	118.29	123.84
22	K	608	CLA	CMB-C2B-C3B	2.84	129.99	124.68
31	U	408	CHL	CMB-C2B-C1B	-2.84	124.10	128.46
24	H	315	DD6	C4-C5-C6	-2.84	123.26	127.31
24	A	858	DD6	C12-C11-C10	-2.84	118.95	122.92
22	H	312	CLA	O2D-CGD-O1D	-2.84	118.29	123.84
22	W	411	CLA	O2D-CGD-O1D	-2.84	118.29	123.84
22	I	601	CLA	CMB-C2B-C3B	2.84	129.99	124.68
22	S	610	CLA	CMB-C2B-C3B	2.84	129.98	124.68
22	I	605	CLA	O2D-CGD-O1D	-2.84	118.30	123.84
22	L	410	CLA	O2D-CGD-O1D	-2.84	118.30	123.84
22	X	407	CLA	O2D-CGD-O1D	-2.84	118.30	123.84
22	R	608	CLA	CMB-C2B-C3B	2.83	129.98	124.68
22	Q	612	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
22	B	805	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
22	I	607	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
22	S	604	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
22	V	608	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
22	O	311	CLA	CMB-C2B-C3B	2.83	129.97	124.68
22	W	410	CLA	O2D-CGD-O1D	-2.83	118.31	123.84
22	U	420	CLA	CMB-C2B-C3B	2.83	129.97	124.68
24	A	859	DD6	C4-C3-C2	-2.83	117.68	123.47
22	P	602	CLA	O2D-CGD-O1D	-2.83	118.31	123.84
22	P	610	CLA	CMB-C2B-C3B	2.83	129.97	124.68
22	R	610	CLA	CMB-C2B-C3B	2.83	129.97	124.68
24	N	613	DD6	C21-C20-C15	-2.83	117.52	122.26
24	A	847	DD6	C14-C13-C11	-2.83	121.14	125.53
31	X	406	CHL	CMB-C2B-C1B	-2.83	124.12	128.46
22	N	609	CLA	O2D-CGD-O1D	-2.83	118.31	123.84
31	U	407	CHL	CMB-C2B-C1B	-2.82	124.12	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	H	302	CLA	CMB-C2B-C3B	2.82	129.96	124.68
24	V	615	DD6	C33-C34-C35	-2.82	106.44	110.30
21	M	101	BCR	C28-C27-C26	-2.82	109.04	114.08
22	S	607	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
22	V	611	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
22	R	608	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
22	V	604	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
22	B	802	CLA	CMB-C2B-C3B	2.82	129.95	124.68
22	V	609	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
21	A	851	BCR	C29-C30-C25	2.82	114.82	110.48
24	U	416	DD6	O1-C20-C19	-2.82	111.27	113.38
22	X	410	CLA	CMB-C2B-C3B	2.82	129.94	124.68
22	A	815	CLA	O2D-CGD-O1D	-2.81	118.33	123.84
22	Q	608	CLA	CMB-C2B-C3B	2.81	129.94	124.68
22	U	403	CLA	CMB-C2B-C3B	2.81	129.94	124.68
22	A	842	CLA	O2A-CGA-O1A	-2.81	116.49	123.59
22	I	608	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
22	W	402	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
22	W	406	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
22	R	611	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
22	Q	618	CLA	CMB-C2B-C3B	2.81	129.93	124.68
22	S	606	CLA	CMB-C2B-C3B	2.81	129.93	124.68
24	G	612	DD6	C33-C34-C35	-2.81	106.46	110.30
22	H	318	CLA	O2D-CGD-O1D	-2.81	118.35	123.84
23	B	840	PQN	C14-C13-C15	2.81	119.99	115.27
22	A	804	CLA	C1B-CHB-C4A	-2.81	124.56	130.12
22	P	608	CLA	CMB-C2B-C3B	2.81	129.93	124.68
24	X	416	DD6	C21-C20-C15	-2.81	117.56	122.26
24	Q	615	DD6	C37-C36-C35	2.81	119.55	114.36
21	B	843	BCR	C27-C26-C25	-2.81	118.66	122.73
22	H	311	CLA	CMB-C2B-C3B	2.80	129.93	124.68
22	F	403	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
24	O	317	DD6	O1-C20-C21	-2.80	111.70	115.06
22	S	608	CLA	CMB-C2B-C3B	2.80	129.92	124.68
22	V	602	CLA	CMB-C2B-C3B	2.80	129.92	124.68
22	K	605	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
22	N	607	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
22	S	605	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
24	J	105	DD6	C14-C13-C11	-2.80	121.18	125.53
22	B	822	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
22	S	606	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
22	V	603	CLA	O2D-CGD-O1D	-2.80	118.36	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	N	610	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
22	V	610	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
24	L	413	DD6	O1-C20-C19	-2.80	111.28	113.38
24	A	859	DD6	O1-C20-C19	-2.80	111.28	113.38
22	K	602	CLA	O2D-CGD-O1D	-2.80	118.37	123.84
22	L	408	CLA	C6-C5-C3	-2.80	106.12	113.45
22	B	837	CLA	CMB-C2B-C3B	2.80	129.91	124.68
22	S	615	CLA	CMB-C2B-C3B	2.80	129.91	124.68
22	X	412	CLA	CMB-C2B-C3B	2.80	129.91	124.68
22	K	606	CLA	O2D-CGD-O1D	-2.80	118.37	123.84
22	P	609	CLA	O2D-CGD-O1D	-2.79	118.37	123.84
24	A	858	DD6	C8-C6-C5	2.79	123.23	118.94
24	U	417	DD6	C9-C10-C11	-2.79	123.33	127.31
24	W	416	DD6	C14-C13-C11	-2.79	121.20	125.53
22	X	403	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
22	W	405	CLA	CMB-C2B-C3B	2.79	129.90	124.68
24	P	612	DD6	C24-C1-C2	2.79	123.22	118.94
22	N	608	CLA	CMB-C2B-C3B	2.79	129.89	124.68
22	O	305	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
22	W	414	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
24	U	417	DD6	C-C1-C2	-2.79	119.02	122.92
22	V	611	CLA	CMB-C2B-C3B	2.79	129.89	124.68
22	N	610	CLA	CMB-C2B-C1B	-2.79	124.18	128.46
22	I	608	CLA	CMB-C2B-C3B	2.78	129.89	124.68
22	A	839	CLA	CHB-C4A-NA	2.78	128.36	124.51
24	S	611	DD6	C37-C36-C35	2.78	119.51	114.36
22	X	411	CLA	O2D-CGD-O1D	-2.78	118.39	123.84
24	N	612	DD6	C21-C20-C15	-2.78	117.59	122.26
22	H	313	CLA	CMB-C2B-C3B	2.78	129.89	124.68
22	R	607	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
22	R	609	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
22	R	602	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
31	W	407	CHL	CMB-C2B-C1B	-2.78	124.19	128.46
22	G	610	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
22	U	406	CLA	CMB-C2B-C3B	2.78	129.88	124.68
22	B	838	CLA	C1B-CHB-C4A	-2.78	124.61	130.12
22	A	837	CLA	CMB-C2B-C3B	2.78	129.88	124.68
22	H	308	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
22	B	839	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
22	L	409	CLA	CMB-C2B-C3B	2.78	129.87	124.68
22	A	841	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
22	V	613	CLA	CMB-C2B-C3B	2.78	129.87	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	R	605	CLA	O2D-CGD-O1D	-2.77	118.41	123.84
22	A	803	CLA	O2D-CGD-O1D	-2.77	118.41	123.84
22	A	842	CLA	C1B-CHB-C4A	-2.77	124.62	130.12
22	P	610	CLA	CHB-C4A-NA	2.77	128.35	124.51
22	B	833	CLA	CMB-C2B-C3B	2.77	129.86	124.68
22	R	610	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
31	V	605	CHL	CMB-C2B-C1B	-2.77	124.20	128.46
22	O	313	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
22	H	309	CLA	CMB-C2B-C3B	2.77	129.86	124.68
22	H	304	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
22	X	419	CLA	CMB-C2B-C3B	2.77	129.86	124.68
24	F	406	DD6	C21-C20-C15	-2.77	117.62	122.26
22	Q	609	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
22	F	403	CLA	CMB-C2B-C3B	2.77	129.86	124.68
22	I	609	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
28	Q	602	LMG	O6-C1-O1	-2.77	103.42	109.97
22	N	606	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
24	W	418	DD6	C37-C36-C35	2.77	119.48	114.36
22	Q	610	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
22	A	801	CLA	C2D-C1D-ND	-2.76	108.07	110.10
28	L	401	LMG	O6-C1-O1	-2.76	103.43	109.97
24	J	105	DD6	C12-C11-C10	-2.76	119.05	122.92
22	P	607	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
22	Q	607	CLA	CMB-C2B-C3B	2.76	129.84	124.68
28	K	618	LMG	O6-C1-O1	-2.76	103.44	109.97
33	A	802	CL0	O2A-CGA-O1A	-2.76	116.63	123.59
21	B	844	BCR	C38-C26-C25	-2.76	121.43	124.53
24	R	613	DD6	C37-C36-C31	-2.76	120.60	124.35
22	X	412	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
22	K	609	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
24	L	415	DD6	C21-C20-C15	-2.76	117.64	122.26
22	V	617	CLA	CMB-C2B-C3B	2.76	129.83	124.68
22	H	302	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
22	Q	607	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
24	O	316	DD6	C33-C34-C35	-2.75	106.53	110.30
22	F	405	CLA	CMB-C2B-C3B	2.75	129.83	124.68
22	K	613	CLA	CMB-C2B-C3B	2.75	129.83	124.68
22	V	610	CLA	CMB-C2B-C3B	2.75	129.83	124.68
22	B	815	CLA	C1B-CHB-C4A	-2.75	124.67	130.12
21	B	843	BCR	C2-C1-C6	2.75	114.72	110.48
24	Q	615	DD6	C33-C34-C35	-2.75	106.54	110.30
24	X	401	DD6	C14-C13-C11	-2.75	121.27	125.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	I	614	LMG	O6-C1-O1	-2.75	103.47	109.97
28	I	615	LMG	O6-C1-O1	-2.75	103.47	109.97
21	B	843	BCR	C8-C9-C10	2.75	123.16	118.94
22	I	606	CLA	CMB-C2B-C3B	2.75	129.82	124.68
22	N	601	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
22	I	611	CLA	C1B-CHB-C4A	-2.75	124.68	130.12
22	V	601	CLA	CMB-C2B-C3B	2.75	129.82	124.68
22	U	414	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
24	V	615	DD6	C37-C36-C35	2.75	119.44	114.36
21	A	850	BCR	C38-C26-C27	2.74	118.88	113.62
22	U	401	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
21	M	101	BCR	C27-C26-C25	-2.74	118.75	122.73
22	B	859	CLA	CAA-C2A-C3A	-2.74	105.28	112.78
22	T	607	CLA	O2D-CGD-O1D	-2.74	118.49	123.84
22	B	829	CLA	CMB-C2B-C3B	2.74	129.80	124.68
21	B	801	BCR	C11-C12-C13	-2.74	118.73	126.42
22	O	319	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
22	X	404	CLA	CMB-C2B-C3B	2.73	129.79	124.68
21	B	801	BCR	C38-C26-C25	-2.73	121.46	124.53
22	I	606	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
22	I	601	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
22	A	829	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
24	G	613	DD6	C37-C36-C35	2.73	119.41	114.36
24	A	847	DD6	C4-C3-C2	-2.73	117.89	123.47
24	Q	615	DD6	O1-C20-C21	-2.73	111.79	115.06
22	G	606	CLA	CMB-C2B-C3B	2.72	129.78	124.68
22	Q	617	CLA	O2D-CGD-O1D	-2.72	118.51	123.84
22	N	608	CLA	O2D-CGD-O1D	-2.72	118.51	123.84
21	J	103	BCR	C20-C21-C22	-2.72	123.42	127.31
24	T	612	DD6	C4-C5-C6	-2.72	123.42	127.31
22	A	842	CLA	CMB-C2B-C3B	2.72	129.77	124.68
22	A	852	CLA	C1B-CHB-C4A	-2.72	124.73	130.12
31	W	408	CHL	CMB-C2B-C1B	-2.72	124.28	128.46
22	P	605	CLA	O2D-CGD-O1D	-2.72	118.52	123.84
24	I	613	DD6	C32-C31-C36	-2.72	118.79	122.63
22	R	609	CLA	CAA-C2A-C3A	-2.72	109.75	116.10
22	B	836	CLA	C1B-CHB-C4A	-2.72	124.73	130.12
22	Q	610	CLA	CMB-C2B-C3B	2.72	129.76	124.68
24	K	615	DD6	C15-C14-C13	-2.71	120.25	125.99
21	B	845	BCR	C20-C21-C22	-2.71	123.44	127.31
22	Q	601	CLA	CMB-C2B-C3B	2.71	129.75	124.68
22	Q	613	CLA	CMB-C2B-C3B	2.71	129.75	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	851	BCR	C8-C9-C10	2.71	123.10	118.94
22	V	612	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
22	L	402	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
24	Q	614	DD6	C33-C34-C35	-2.71	106.60	110.30
22	O	305	CLA	C1-C2-C3	-2.71	122.37	126.75
24	U	417	DD6	C15-C14-C13	-2.71	120.27	125.99
22	T	606	CLA	CMB-C2B-C3B	2.70	129.74	124.68
22	Q	608	CLA	O2D-CGD-O1D	-2.70	118.55	123.84
22	B	807	CLA	CMB-C2B-C3B	2.70	129.73	124.68
24	O	317	DD6	C33-C34-C35	-2.70	106.61	110.30
22	W	414	CLA	CMB-C2B-C3B	2.70	129.73	124.68
26	K	619	LHG	O8-C23-C24	2.70	120.38	111.91
22	P	611	CLA	CHB-C4A-NA	2.70	128.25	124.51
22	H	307	CLA	CMB-C2B-C3B	2.70	129.73	124.68
27	O	322	LMU	O1B-C4'-C3'	2.70	114.45	107.28
33	A	802	CL0	C4D-CHA-C1A	-2.70	117.97	121.25
24	W	417	DD6	C15-C14-C13	-2.70	120.29	125.99
26	B	848	LHG	O8-C23-C24	2.70	120.37	111.91
28	T	616	LMG	O6-C1-O1	-2.69	103.59	109.97
22	O	310	CLA	CHB-C4A-NA	2.69	128.24	124.51
22	R	601	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
24	F	406	DD6	C9-C10-C11	-2.69	123.47	127.31
28	J	101	LMG	O6-C1-O1	-2.69	103.60	109.97
24	A	847	DD6	C15-C14-C13	-2.69	120.31	125.99
22	X	417	CLA	O2D-CGD-O1D	-2.69	118.58	123.84
24	U	416	DD6	C14-C13-C11	-2.69	121.36	125.53
22	B	806	CLA	C1B-CHB-C4A	-2.69	124.80	130.12
22	T	610	CLA	CMB-C2B-C3B	2.69	129.70	124.68
22	A	813	CLA	C1B-CHB-C4A	-2.69	124.80	130.12
22	S	610	CLA	CHB-C4A-NA	2.69	128.22	124.51
26	O	318	LHG	O8-C23-C24	2.68	120.33	111.91
22	B	808	CLA	O2D-CGD-O1D	-2.68	118.59	123.84
24	R	613	DD6	C32-C31-C36	-2.68	118.85	122.63
24	X	415	DD6	C9-C10-C11	-2.68	123.49	127.31
22	G	606	CLA	O2D-CGD-O1D	-2.68	118.60	123.84
22	B	859	CLA	CHB-C4A-NA	2.68	128.22	124.51
24	F	406	DD6	C3-C2-C1	-2.67	123.49	127.31
21	B	842	BCR	C33-C5-C4	2.67	118.75	113.62
22	Q	613	CLA	CHB-C4A-NA	2.67	128.21	124.51
22	B	813	CLA	C1B-CHB-C4A	-2.67	124.82	130.12
22	A	829	CLA	C1B-CHB-C4A	-2.67	124.82	130.12
28	A	855	LMG	O6-C1-O1	-2.67	103.65	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	W	417	DD6	C33-C34-C35	-2.67	106.65	110.30
24	R	612	DD6	C14-C13-C11	-2.67	121.39	125.53
24	I	613	DD6	C3-C4-C5	-2.67	118.01	123.47
23	B	840	PQN	C11-C12-C13	-2.67	122.35	126.79
24	Q	615	DD6	C10-C9-C8	-2.67	114.90	123.22
22	K	607	CLA	CHD-C1D-ND	-2.66	122.01	124.45
24	P	613	DD6	C3-C4-C5	-2.66	118.02	123.47
24	Q	615	DD6	C3-C4-C5	-2.66	118.02	123.47
22	P	609	CLA	C1B-CHB-C4A	-2.66	124.85	130.12
26	O	321	LHG	O8-C23-C24	2.66	120.26	111.91
24	N	612	DD6	C33-C34-C35	-2.66	106.66	110.30
24	A	847	DD6	O1-C20-C19	-2.66	111.39	113.38
24	X	416	DD6	C13-C11-C10	-2.66	114.86	118.94
24	O	317	DD6	C37-C36-C31	-2.66	120.74	124.35
21	A	850	BCR	C11-C10-C9	-2.66	123.52	127.31
24	W	416	DD6	O1-C20-C19	-2.65	111.39	113.38
22	X	408	CLA	CHB-C4A-NA	2.65	128.18	124.51
24	A	858	DD6	C21-C20-C15	-2.65	117.81	122.26
22	B	817	CLA	C1B-CHB-C4A	-2.65	124.87	130.12
26	H	316	LHG	O8-C23-C24	2.65	120.21	111.91
22	A	839	CLA	O1D-CGD-CBD	2.65	129.90	124.48
21	B	843	BCR	C23-C22-C21	2.65	123.00	118.94
24	G	613	DD6	C9-C10-C11	-2.64	123.54	127.31
26	U	419	LHG	O8-C23-C24	2.64	120.20	111.91
22	V	617	CLA	CHB-C4A-NA	2.64	128.17	124.51
28	N	615	LMG	O6-C1-O1	-2.64	103.72	109.97
22	O	309	CLA	CHB-C4A-NA	2.64	128.16	124.51
33	A	802	CL0	C2A-C1A-CHA	-2.64	119.24	123.86
28	H	317	LMG	O6-C1-O1	-2.64	103.72	109.97
24	W	416	DD6	C15-C14-C13	-2.64	120.42	125.99
22	B	831	CLA	C1B-CHB-C4A	-2.64	124.89	130.12
24	B	841	DD6	C25-C24-C1	-2.63	119.01	126.42
22	K	607	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
27	K	620	LMU	C1-O1'-C1'	-2.63	109.47	113.84
27	L	420	LMU	C1B-O1B-C4'	-2.63	111.46	117.96
33	A	802	CL0	CHC-C1C-C2C	-2.63	119.46	126.72
26	S	613	LHG	O8-C23-C24	2.62	120.14	111.91
22	U	409	CLA	CHB-C4A-NA	2.62	128.14	124.51
28	K	601	LMG	O6-C1-O1	-2.62	103.77	109.97
24	K	615	DD6	C9-C10-C11	-2.62	123.57	127.31
22	B	826	CLA	C1B-CHB-C4A	-2.62	124.93	130.12
22	Q	613	CLA	C1B-CHB-C4A	-2.62	124.93	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	P	601	LHG	O8-C23-C24	2.62	120.12	111.91
22	A	812	CLA	C1B-CHB-C4A	-2.62	124.93	130.12
24	L	415	DD6	C15-C14-C13	-2.62	120.46	125.99
22	K	607	CLA	CMB-C2B-C3B	2.62	129.57	124.68
22	N	611	CLA	CBD-CHA-C1A	2.62	131.58	128.50
22	B	824	CLA	CHB-C4A-NA	2.62	128.13	124.51
24	X	401	DD6	C21-C20-C15	-2.61	117.88	122.26
24	R	613	DD6	C25-C24-C1	-2.61	119.07	126.42
24	B	841	DD6	C33-C34-C35	-2.61	106.72	110.30
22	K	606	CLA	C1-C2-C3	-2.61	122.52	126.75
22	B	820	CLA	C1B-CHB-C4A	-2.61	124.94	130.12
22	F	405	CLA	C1B-CHB-C4A	-2.61	124.94	130.12
22	A	824	CLA	CMB-C2B-C3B	2.61	129.56	124.68
26	Q	616	LHG	O8-C23-C24	2.61	120.10	111.91
24	S	611	DD6	C9-C10-C11	-2.61	123.58	127.31
22	A	832	CLA	C1B-CHB-C4A	-2.61	124.95	130.12
22	B	805	CLA	CHB-C4A-NA	2.61	128.12	124.51
22	S	607	CLA	C1B-CHB-C4A	-2.61	124.95	130.12
24	I	612	DD6	C33-C34-C35	-2.61	106.74	110.30
22	A	834	CLA	C1B-CHB-C4A	-2.60	124.96	130.12
22	O	315	CLA	C1B-CHB-C4A	-2.60	124.96	130.12
22	I	607	CLA	O2A-CGA-O1A	-2.60	117.03	123.59
22	U	403	CLA	CHB-C4A-NA	2.60	128.11	124.51
27	K	620	LMU	C1B-O1B-C4'	-2.60	111.31	115.33
26	L	416	LHG	O8-C23-C24	2.60	120.07	111.91
22	T	604	CLA	CHB-C4A-NA	2.60	128.11	124.51
22	B	807	CLA	C1B-CHB-C4A	-2.60	124.97	130.12
22	P	603	CLA	C1B-CHB-C4A	-2.60	124.97	130.12
31	W	422	CHL	CHB-C4A-NA	2.60	128.10	124.51
22	B	804	CLA	CHB-C4A-NA	2.59	128.09	124.51
22	F	404	CLA	CHB-C4A-NA	2.59	128.09	124.51
28	U	423	LMG	O6-C1-O1	-2.59	103.84	109.97
22	V	613	CLA	CHB-C4A-NA	2.59	128.09	124.51
22	A	838	CLA	CHB-C4A-NA	2.59	128.09	124.51
22	B	809	CLA	CHB-C4A-NA	2.59	128.09	124.51
22	X	417	CLA	C1-C2-C3	-2.59	122.57	126.75
24	W	416	DD6	C21-C20-C15	-2.59	117.93	122.26
24	U	417	DD6	C21-C20-C15	-2.59	117.93	122.26
26	T	614	LHG	O8-C23-C24	2.59	120.02	111.91
24	U	417	DD6	C28-C27-C29	2.58	121.95	116.84
22	N	606	CLA	CMB-C2B-C3B	2.58	129.51	124.68
22	L	409	CLA	CHB-C4A-NA	2.58	128.08	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	H	304	CLA	C1B-CHB-C4A	-2.58	125.01	130.12
24	A	847	DD6	C3-C2-C1	-2.58	123.63	127.31
22	S	609	CLA	CMB-C2B-C3B	2.58	129.50	124.68
22	R	606	CLA	C1B-CHB-C4A	-2.58	125.01	130.12
26	N	614	LHG	O8-C23-C24	2.58	119.99	111.91
26	A	846	LHG	O8-C23-C24	2.58	119.99	111.91
24	W	418	DD6	C9-C10-C11	-2.57	123.64	127.31
26	O	323	LHG	O8-C23-C24	2.57	119.98	111.91
22	A	830	CLA	CAA-C2A-C3A	-2.57	105.74	112.78
23	A	843	PQN	C11-C12-C13	-2.57	122.51	126.79
22	L	404	CLA	CHB-C4A-NA	2.57	128.06	124.51
22	K	612	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
26	R	614	LHG	O8-C23-C24	2.57	119.96	111.91
27	A	854	LMU	C1B-O1B-C4'	-2.57	111.62	117.96
33	A	802	CL0	O2D-CGD-CBD	2.57	115.83	111.27
22	I	603	CLA	C1B-CHB-C4A	-2.56	125.04	130.12
26	W	420	LHG	O8-C23-C24	2.56	119.95	111.91
22	L	408	CLA	C1-C2-C3	-2.56	121.61	126.04
22	P	602	CLA	CHB-C4A-NA	2.56	128.05	124.51
26	N	616	LHG	O8-C23-C24	2.56	119.94	111.91
22	V	608	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
26	K	616	LHG	O8-C23-C24	2.56	119.94	111.91
22	B	811	CLA	CHB-C4A-NA	2.55	128.04	124.51
22	O	312	CLA	C1B-CHB-C4A	-2.55	125.06	130.12
26	A	845	LHG	O8-C23-C24	2.55	119.92	111.91
24	L	414	DD6	O1-C20-C21	-2.55	112.00	115.06
22	B	825	CLA	CHB-C4A-NA	2.55	128.04	124.51
24	G	613	DD6	C3-C4-C5	-2.55	118.25	123.47
22	A	824	CLA	CHB-C4A-NA	2.55	128.04	124.51
22	I	605	CLA	CHB-C4A-NA	2.55	128.03	124.51
22	A	836	CLA	CHB-C4A-NA	2.55	128.03	124.51
22	N	605	CLA	CHB-C4A-NA	2.54	128.03	124.51
22	A	805	CLA	CHB-C4A-NA	2.54	128.03	124.51
22	K	611	CLA	CHB-C4A-NA	2.54	128.03	124.51
22	A	805	CLA	O2D-CGD-O1D	-2.54	118.86	123.84
26	X	420	LHG	O8-C23-C24	2.54	119.89	111.91
22	A	825	CLA	CHB-C4A-NA	2.54	128.03	124.51
22	G	603	CLA	C1B-CHB-C4A	-2.54	125.08	130.12
22	A	825	CLA	C1B-CHB-C4A	-2.54	125.08	130.12
21	A	850	BCR	C28-C27-C26	-2.54	109.54	114.08
28	G	616	LMG	O6-C1-O1	-2.54	103.96	109.97
22	H	309	CLA	CHB-C4A-NA	2.54	128.02	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	I	613	DD6	C21-C20-C15	-2.54	118.01	122.26
21	B	845	BCR	C16-C17-C18	-2.54	123.69	127.31
22	H	307	CLA	CHB-C4A-NA	2.54	128.02	124.51
22	O	310	CLA	C1B-CHB-C4A	-2.54	125.09	130.12
24	W	418	DD6	C21-C20-C15	-2.54	118.01	122.26
22	R	610	CLA	C1B-CHB-C4A	-2.54	125.09	130.12
21	B	842	BCR	C38-C26-C27	2.54	118.49	113.62
22	A	801	CLA	O1D-CGD-CBD	2.54	129.67	124.48
22	P	610	CLA	O2D-CGD-CBD	2.53	115.77	111.27
21	B	845	BCR	C2-C1-C6	2.53	114.38	110.48
22	L	405	CLA	CHB-C4A-NA	2.53	128.01	124.51
24	P	613	DD6	C25-C26-C27	-2.53	119.23	126.58
22	A	819	CLA	O2D-CGD-CBD	2.53	115.77	111.27
24	U	417	DD6	C37-C36-C35	2.53	119.04	114.36
22	Q	604	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
22	H	311	CLA	CHB-C4A-NA	2.53	128.01	124.51
22	A	821	CLA	CHB-C4A-NA	2.53	128.01	124.51
24	V	615	DD6	C21-C20-C15	-2.53	118.02	122.26
24	A	859	DD6	C33-C34-C35	-2.53	106.84	110.30
22	B	823	CLA	CHB-C4A-NA	2.53	128.01	124.51
21	J	103	BCR	C38-C26-C25	-2.53	121.69	124.53
24	P	613	DD6	C14-C13-C11	-2.53	121.61	125.53
24	J	105	DD6	C9-C8-C6	-2.53	119.32	126.42
27	J	104	LMU	C1B-O1B-C4'	-2.53	111.71	117.96
22	U	413	CLA	CHB-C4A-NA	2.53	128.00	124.51
24	X	414	DD6	C33-C34-C35	-2.53	106.85	110.30
22	K	604	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
28	H	322	LMG	O6-C1-O1	-2.52	104.00	109.97
22	B	814	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
22	X	417	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
22	L	406	CLA	CHB-C4A-NA	2.52	128.00	124.51
22	W	415	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
24	X	416	DD6	O1-C20-C21	-2.52	112.04	115.06
22	K	605	CLA	CHB-C4A-NA	2.52	127.99	124.51
22	B	830	CLA	O2A-CGA-O1A	-2.52	117.24	123.59
22	K	608	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
22	N	606	CLA	CHB-C4A-NA	2.52	127.99	124.51
22	V	602	CLA	CHB-C4A-NA	2.51	127.99	124.51
22	T	611	CLA	CHB-C4A-NA	2.51	127.99	124.51
22	A	821	CLA	C1-C2-C3	-2.51	121.70	126.04
22	R	605	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	X	413	CLA	CHB-C4A-NA	2.51	127.98	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	828	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	L	412	CLA	C1B-CHB-C4A	-2.51	125.14	130.12
22	S	614	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	I	608	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	Q	603	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	Q	605	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	R	607	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	B	824	CLA	O2D-CGD-CBD	2.51	115.73	111.27
24	S	611	DD6	C37-C36-C31	-2.51	120.94	124.35
24	H	314	DD6	C33-C34-C35	-2.51	106.87	110.30
22	N	602	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	W	403	CLA	CHB-C4A-NA	2.51	127.98	124.51
22	H	313	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
24	F	406	DD6	C25-C26-C27	-2.50	119.31	126.58
22	B	835	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
22	O	309	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
22	A	842	CLA	CHB-C4A-NA	2.50	127.97	124.51
22	A	824	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
22	O	306	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
28	I	614	LMG	O1-C7-C8	-2.50	104.87	110.90
22	S	603	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
22	G	608	CLA	CHB-C4A-NA	2.50	127.97	124.51
22	L	408	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
22	P	604	CLA	CHB-C4A-NA	2.50	127.97	124.51
22	I	606	CLA	CHB-C4A-NA	2.50	127.97	124.51
22	W	410	CLA	CHB-C4A-NA	2.50	127.97	124.51
25	O	304	DGD	O6D-C1D-C2D	-2.50	105.07	110.35
22	U	405	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
24	P	612	DD6	C37-C36-C35	2.50	118.98	114.36
22	X	402	CLA	CHB-C4A-NA	2.49	127.96	124.51
22	T	606	CLA	CHB-C4A-NA	2.49	127.96	124.51
22	P	603	CLA	O2D-CGD-O1D	-2.49	118.96	123.84
24	W	417	DD6	C9-C10-C11	-2.49	123.75	127.31
26	O	324	LHG	O8-C23-C24	2.49	119.73	111.91
22	A	826	CLA	CHB-C4A-NA	2.49	127.96	124.51
24	P	613	DD6	C25-C24-C1	-2.49	119.42	126.42
26	B	851	LHG	O8-C23-C24	2.49	119.73	111.91
22	A	814	CLA	CHB-C4A-NA	2.49	127.96	124.51
24	H	315	DD6	C33-C34-C35	-2.49	106.90	110.30
22	I	607	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
22	X	404	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
22	U	412	CLA	CHB-C4A-NA	2.49	127.95	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	N	601	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
22	L	402	CLA	CHB-C4A-NA	2.49	127.95	124.51
22	O	311	CLA	CHB-C4A-NA	2.49	127.95	124.51
24	P	613	DD6	C33-C34-C35	-2.49	106.90	110.30
22	I	601	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
22	T	603	CLA	CHB-C4A-NA	2.49	127.95	124.51
22	A	841	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
22	K	613	CLA	CHB-C4A-NA	2.48	127.95	124.51
22	V	607	CLA	CHB-C4A-NA	2.48	127.95	124.51
22	R	606	CLA	CHB-C4A-NA	2.48	127.95	124.51
22	N	603	CLA	CHB-C4A-NA	2.48	127.94	124.51
22	V	601	CLA	CHB-C4A-NA	2.48	127.94	124.51
22	G	601	CLA	CHB-C4A-NA	2.48	127.94	124.51
22	B	829	CLA	CHB-C4A-NA	2.48	127.94	124.51
22	V	611	CLA	CHB-C4A-NA	2.48	127.94	124.51
22	O	312	CLA	CHB-C4A-NA	2.48	127.94	124.51
24	S	611	DD6	C3-C4-C5	-2.48	118.40	123.47
28	I	615	LMG	C3-C4-C5	-2.48	107.55	110.77
21	B	844	BCR	C28-C27-C26	-2.48	109.65	114.08
22	I	609	CLA	CHB-C4A-NA	2.48	127.94	124.51
28	K	622	LMG	O6-C1-O1	-2.48	104.11	109.97
22	L	411	CLA	CHB-C4A-NA	2.48	127.94	124.51
28	B	856	LMG	C40-C39-C38	-2.47	101.86	114.42
22	H	308	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
22	X	411	CLA	CHB-C4A-NA	2.47	127.93	124.51
22	A	808	CLA	CHB-C4A-NA	2.47	127.93	124.51
22	K	607	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
22	B	835	CLA	CHB-C4A-NA	2.47	127.93	124.51
22	X	405	CLA	CHB-C4A-NA	2.47	127.93	124.51
21	B	842	BCR	C8-C7-C6	-2.47	120.26	127.20
22	P	605	CLA	CHB-C4A-NA	2.47	127.93	124.51
22	Q	601	CLA	CHB-C4A-NA	2.47	127.93	124.51
24	T	613	DD6	C37-C36-C35	2.47	118.93	114.36
22	X	403	CLA	CHB-C4A-NA	2.47	127.93	124.51
22	A	818	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
22	X	410	CLA	CHB-C4A-NA	2.47	127.93	124.51
22	A	811	CLA	CHB-C4A-NA	2.47	127.93	124.51
22	W	412	CLA	C11-C10-C8	-2.47	107.94	115.92
22	K	609	CLA	CHB-C4A-NA	2.47	127.93	124.51
22	H	308	CLA	CHB-C4A-NA	2.47	127.92	124.51
22	H	310	CLA	C1B-CHB-C4A	-2.47	125.23	130.12
22	K	604	CLA	CHB-C4A-NA	2.47	127.92	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	N	603	CLA	C1B-CHB-C4A	-2.47	125.23	130.12
22	L	407	CLA	CHB-C4A-NA	2.47	127.92	124.51
27	O	320	LMU	C5'-O5'-C1'	2.47	114.78	111.91
22	B	839	CLA	CHB-C4A-NA	2.47	127.92	124.51
22	O	319	CLA	CHB-C4A-NA	2.47	127.92	124.51
22	T	608	CLA	CHB-C4A-NA	2.46	127.92	124.51
22	A	838	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
22	V	608	CLA	CHB-C4A-NA	2.46	127.92	124.51
22	G	605	CLA	CHB-C4A-NA	2.46	127.92	124.51
22	S	610	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
22	A	827	CLA	CHB-C4A-NA	2.46	127.92	124.51
24	P	613	DD6	O1-C20-C21	-2.46	112.11	115.06
22	H	312	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
24	T	613	DD6	C9-C10-C11	-2.46	123.80	127.31
22	H	302	CLA	CHB-C4A-NA	2.46	127.92	124.51
22	R	602	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
22	V	612	CLA	CMB-C2B-C3B	2.46	129.28	124.68
22	B	816	CLA	CHB-C4A-NA	2.46	127.91	124.51
22	R	603	CLA	CHB-C4A-NA	2.46	127.91	124.51
31	W	422	CHL	CHA-C1A-NA	-2.46	120.76	126.40
22	A	817	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
24	V	614	DD6	C33-C34-C35	-2.46	106.94	110.30
22	G	610	CLA	CHB-C4A-NA	2.46	127.91	124.51
22	T	609	CLA	CHB-C4A-NA	2.46	127.91	124.51
22	B	830	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
22	U	413	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
22	Q	612	CLA	CHB-C4A-NA	2.46	127.91	124.51
22	T	601	CLA	CHB-C4A-NA	2.46	127.91	124.51
24	S	612	DD6	C33-C34-C35	-2.46	106.94	110.30
22	B	807	CLA	CHB-C4A-NA	2.46	127.91	124.51
22	N	601	CLA	CHB-C4A-NA	2.46	127.91	124.51
22	A	844	CLA	CHB-C4A-NA	2.46	127.91	124.51
22	B	818	CLA	CHB-C4A-NA	2.46	127.91	124.51
22	G	607	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
21	B	846	BCR	C7-C8-C9	-2.45	122.53	126.23
31	W	407	CHL	CHC-C1C-NC	2.45	127.92	124.20
22	B	834	CLA	CHB-C4A-NA	2.45	127.90	124.51
22	H	302	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
22	S	604	CLA	CHB-C4A-NA	2.45	127.90	124.51
22	A	837	CLA	CHB-C4A-NA	2.45	127.90	124.51
22	B	832	CLA	CHB-C4A-NA	2.45	127.90	124.51
22	A	835	CLA	C1B-CHB-C4A	-2.45	125.27	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	843	BCR	C29-C30-C25	2.45	114.25	110.48
24	K	614	DD6	C33-C34-C35	-2.45	106.95	110.30
22	B	821	CLA	CHB-C4A-NA	2.45	127.90	124.51
22	U	414	CLA	CHB-C4A-NA	2.45	127.90	124.51
24	R	612	DD6	C33-C34-C35	-2.45	106.96	110.30
22	U	405	CLA	CHB-C4A-NA	2.44	127.89	124.51
22	W	410	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
22	K	606	CLA	CHB-C4A-NA	2.44	127.89	124.51
28	H	317	LMG	C38-C37-C36	-2.44	102.02	114.42
26	G	614	LHG	O8-C23-C24	2.44	119.57	111.91
22	A	824	CLA	O2D-CGD-CBD	2.44	115.61	111.27
22	H	312	CLA	CHB-C4A-NA	2.44	127.89	124.51
22	Q	605	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
22	W	405	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
24	R	613	DD6	C25-C26-C27	-2.44	119.50	126.58
22	W	419	CLA	CHB-C4A-NA	2.44	127.89	124.51
27	K	620	LMU	O5'-C5'-C4'	2.44	114.35	109.41
22	I	610	CLA	CHB-C4A-NA	2.44	127.88	124.51
22	S	607	CLA	CHB-C4A-NA	2.44	127.88	124.51
22	O	305	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
22	W	412	CLA	CHB-C4A-NA	2.44	127.88	124.51
22	T	603	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
22	B	833	CLA	CHB-C4A-NA	2.44	127.88	124.51
24	X	415	DD6	C33-C34-C35	-2.44	106.97	110.30
22	Q	611	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
24	X	415	DD6	C15-C14-C13	-2.43	120.85	125.99
23	A	843	PQN	C2M-C2-C3	-2.43	120.43	124.40
22	V	609	CLA	CHB-C4A-NA	2.43	127.88	124.51
22	V	610	CLA	CHB-C4A-NA	2.43	127.88	124.51
24	J	105	DD6	C13-C11-C10	2.43	122.67	118.94
24	J	105	DD6	C25-C26-C27	-2.43	119.52	126.58
22	S	606	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
22	X	419	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
22	G	602	CLA	CHB-C4A-NA	2.43	127.88	124.51
22	S	606	CLA	CHB-C4A-NA	2.43	127.88	124.51
22	G	611	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
22	A	836	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
28	J	101	LMG	C40-C39-C38	-2.43	102.08	114.42
22	R	615	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	A	812	CLA	CHB-C4A-NA	2.43	127.87	124.51
24	P	612	DD6	C21-C20-C15	-2.43	118.19	122.26
22	A	822	CLA	C1B-CHB-C4A	-2.43	125.30	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	G	611	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	Q	604	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	B	803	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
22	S	615	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	W	411	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
22	X	412	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	Q	608	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
21	A	848	BCR	C33-C5-C4	2.43	118.28	113.62
22	V	612	CLA	CHB-C4A-NA	2.43	127.87	124.51
24	L	414	DD6	C21-C20-C15	-2.43	118.19	122.26
22	W	409	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	L	410	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
22	V	602	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
22	S	608	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	N	608	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	Q	610	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	B	829	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
22	G	602	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
22	H	310	CLA	CHB-C4A-NA	2.43	127.87	124.51
22	G	606	CLA	CHB-C4A-NA	2.42	127.86	124.51
22	O	314	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
22	F	403	CLA	CHB-C4A-NA	2.42	127.86	124.51
22	B	859	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
24	P	613	DD6	C21-C20-C15	-2.42	118.20	122.26
22	G	609	CLA	CHB-C4A-NA	2.42	127.86	124.51
22	X	404	CLA	CHB-C4A-NA	2.42	127.86	124.51
31	X	406	CHL	CHB-C4A-NA	2.42	127.86	124.51
27	X	421	LMU	C1B-O1B-C4'	-2.42	111.97	117.96
24	G	613	DD6	C21-C20-C15	-2.42	118.20	122.26
22	H	306	CLA	CHB-C4A-NA	2.42	127.86	124.51
22	Q	607	CLA	CHB-C4A-NA	2.42	127.86	124.51
22	R	601	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
22	W	404	CLA	CHB-C4A-NA	2.42	127.86	124.51
22	O	315	CLA	C1-C2-C3	-2.42	122.84	126.75
22	L	409	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
22	J	102	CLA	C1-C2-C3	-2.42	122.84	126.75
21	B	801	BCR	C20-C21-C22	-2.42	123.86	127.31
22	A	833	CLA	CHB-C4A-NA	2.42	127.86	124.51
24	O	316	DD6	C15-C14-C13	-2.42	120.88	125.99
24	X	415	DD6	C21-C20-C15	-2.42	118.21	122.26
22	A	822	CLA	CHB-C4A-NA	2.42	127.85	124.51
22	Q	606	CLA	CHB-C4A-NA	2.42	127.85	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	U	420	CLA	CHB-C4A-NA	2.42	127.85	124.51
22	A	820	CLA	O2A-CGA-O1A	-2.42	117.50	123.59
22	X	407	CLA	CHB-C4A-NA	2.41	127.85	124.51
24	L	415	DD6	C33-C34-C35	-2.41	107.00	110.30
22	S	601	CLA	CHB-C4A-NA	2.41	127.85	124.51
22	Q	618	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
22	B	837	CLA	CHB-C4A-NA	2.41	127.85	124.51
22	P	608	CLA	CHB-C4A-NA	2.41	127.85	124.51
22	B	808	CLA	CHB-C4A-NA	2.41	127.85	124.51
22	B	821	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
22	L	407	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
22	V	604	CLA	CHB-C4A-NA	2.41	127.85	124.51
22	W	414	CLA	CHB-C4A-NA	2.41	127.85	124.51
31	V	605	CHL	CHB-C4A-NA	2.41	127.85	124.51
31	W	408	CHL	CHA-C1A-NA	-2.41	120.88	126.40
22	K	610	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
28	B	856	LMG	O6-C5-C4	2.41	114.07	109.69
22	P	607	CLA	CHB-C4A-NA	2.41	127.85	124.51
22	A	810	CLA	CHB-C4A-NA	2.41	127.85	124.51
24	O	317	DD6	C10-C9-C8	-2.41	115.69	123.22
22	B	834	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
22	B	803	CLA	CHB-C4A-NA	2.41	127.84	124.51
24	A	859	DD6	C25-C24-C1	-2.41	119.65	126.42
22	R	610	CLA	CHB-C4A-NA	2.41	127.84	124.51
22	R	608	CLA	CHB-C4A-NA	2.41	127.84	124.51
22	S	602	CLA	CHB-C4A-NA	2.41	127.84	124.51
22	S	603	CLA	CHB-C4A-NA	2.41	127.84	124.51
24	X	414	DD6	C14-C13-C11	-2.41	121.79	125.53
22	G	604	CLA	CHB-C4A-NA	2.41	127.84	124.51
22	H	313	CLA	CHB-C4A-NA	2.41	127.84	124.51
22	R	601	CLA	CHB-C4A-NA	2.41	127.84	124.51
22	N	609	CLA	CHB-C4A-NA	2.41	127.84	124.51
22	A	823	CLA	CHB-C4A-NA	2.40	127.84	124.51
24	N	612	DD6	C14-C13-C11	-2.40	121.80	125.53
22	Q	611	CLA	CHB-C4A-NA	2.40	127.83	124.51
24	P	613	DD6	O1-C20-C19	-2.40	111.58	113.38
24	N	613	DD6	C3-C4-C5	-2.40	118.55	123.47
24	A	847	DD6	C21-C20-C15	-2.40	118.23	122.26
22	G	603	CLA	CHB-C4A-NA	2.40	127.83	124.51
24	L	413	DD6	C37-C36-C35	2.40	118.81	114.36
28	U	402	LMG	C40-C39-C38	-2.40	102.23	114.42
22	P	608	CLA	C1B-CHB-C4A	-2.40	125.36	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	810	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
22	Q	608	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	A	831	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	H	305	CLA	CHB-C4A-NA	2.40	127.83	124.51
21	B	846	BCR	C16-C15-C14	-2.40	118.56	123.47
22	T	610	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
24	K	615	DD6	C33-C34-C35	-2.40	107.02	110.30
28	W	401	LMG	C38-C37-C36	-2.40	102.24	114.42
22	P	602	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
22	G	607	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	H	304	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	W	406	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	H	303	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	K	610	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	U	410	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	N	607	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
22	O	311	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
22	K	603	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	A	841	CLA	CHB-C4A-NA	2.40	127.83	124.51
22	B	802	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
22	R	608	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
24	S	611	DD6	C21-C20-C15	-2.40	118.24	122.26
24	A	858	DD6	C13-C11-C10	2.40	122.62	118.94
22	B	802	CLA	O2D-CGD-O1D	-2.40	119.15	123.84
22	G	601	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
22	H	311	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
22	A	835	CLA	CHB-C4A-NA	2.40	127.83	124.51
21	B	846	BCR	C11-C10-C9	-2.40	123.89	127.31
28	B	852	LMG	O1-C7-C8	-2.40	105.12	110.90
22	X	405	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
22	W	405	CLA	CHB-C4A-NA	2.40	127.82	124.51
22	Q	618	CLA	CHB-C4A-NA	2.39	127.82	124.51
21	A	851	BCR	C36-C18-C17	-2.39	119.57	122.92
32	V	616	NEX	C5-C6-C1	2.39	122.07	119.70
31	V	606	CHL	CHA-C1A-NA	-2.39	120.92	126.40
24	L	413	DD6	C21-C20-C15	-2.39	118.25	122.26
22	U	410	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
24	L	415	DD6	C37-C36-C35	2.39	118.79	114.36
22	J	102	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
22	N	609	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
24	A	859	DD6	C25-C26-C27	-2.39	119.64	126.58
24	O	316	DD6	C21-C20-C15	-2.39	118.25	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	K	603	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
22	I	602	CLA	CHB-C4A-NA	2.39	127.82	124.51
31	W	407	CHL	CHB-C4A-NA	2.39	127.82	124.51
24	O	316	DD6	C14-C13-C11	-2.39	121.82	125.53
22	B	824	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
22	A	837	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
28	K	618	LMG	C40-C39-C38	-2.39	102.30	114.42
22	X	403	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
24	J	105	DD6	C7-C6-C5	-2.39	119.58	122.92
24	U	416	DD6	C21-C20-C15	-2.39	118.26	122.26
24	F	406	DD6	C19-C18-C17	2.39	115.38	110.77
24	Q	614	DD6	C21-C20-C15	-2.39	118.26	122.26
24	L	414	DD6	C33-C34-C35	-2.39	107.04	110.30
22	B	810	CLA	CHB-C4A-NA	2.38	127.81	124.51
22	P	607	CLA	C1B-CHB-C4A	-2.38	125.39	130.12
22	W	409	CLA	C1B-CHB-C4A	-2.38	125.39	130.12
24	A	858	DD6	C15-C14-C13	-2.38	120.95	125.99
24	H	314	DD6	C21-C20-C15	-2.38	118.27	122.26
22	A	807	CLA	CHB-C4A-NA	2.38	127.81	124.51
31	U	407	CHL	CHB-C4A-NA	2.38	127.81	124.51
21	B	846	BCR	C10-C11-C12	-2.38	115.78	123.22
24	S	612	DD6	C21-C20-C15	-2.38	118.27	122.26
22	T	605	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
22	G	606	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
24	B	841	DD6	C14-C13-C11	-2.38	121.84	125.53
22	I	604	CLA	CHB-C4A-NA	2.38	127.80	124.51
22	U	411	CLA	CHB-C4A-NA	2.38	127.80	124.51
22	B	822	CLA	CHB-C4A-NA	2.38	127.80	124.51
22	I	601	CLA	CHB-C4A-NA	2.38	127.80	124.51
22	L	417	CLA	CHB-C4A-NA	2.38	127.80	124.51
22	V	609	CLA	C1-C2-C3	-2.38	121.93	126.04
22	O	313	CLA	CHB-C4A-NA	2.38	127.80	124.51
22	P	610	CLA	C1B-CHB-C4A	-2.38	125.41	130.12
24	O	317	DD6	C21-C20-C15	-2.38	118.28	122.26
22	O	307	CLA	CHB-C4A-NA	2.38	127.80	124.51
24	G	612	DD6	C37-C36-C35	2.38	118.76	114.36
28	I	615	LMG	C38-C37-C36	-2.37	102.37	114.42
24	T	612	DD6	C9-C10-C11	-2.37	123.92	127.31
28	G	616	LMG	C40-C39-C38	-2.37	102.37	114.42
22	R	609	CLA	CHB-C4A-NA	2.37	127.80	124.51
22	G	609	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
22	T	608	CLA	C1B-CHB-C4A	-2.37	125.42	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	U	404	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
22	X	417	CLA	CHD-C1D-ND	-2.37	122.27	124.45
22	U	409	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
22	A	807	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
22	B	819	CLA	CMB-C2B-C3B	2.37	129.12	124.68
30	F	407	SQD	O8-S-C6	-2.37	101.96	105.74
22	Q	617	CLA	CHB-C4A-NA	2.37	127.79	124.51
22	A	832	CLA	CHB-C4A-NA	2.37	127.79	124.51
22	O	308	CLA	CHB-C4A-NA	2.37	127.79	124.51
22	A	801	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
33	A	802	CL0	CHD-C4C-NC	2.37	127.94	124.20
24	W	418	DD6	C14-C13-C11	-2.37	121.85	125.53
22	K	613	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
22	U	401	CLA	CHB-C4A-NA	2.37	127.79	124.51
22	X	417	CLA	CHB-C4A-NA	2.37	127.79	124.51
22	S	609	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
28	W	401	LMG	C40-C39-C38	-2.37	102.40	114.42
22	N	608	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
22	H	309	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
22	R	607	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
21	M	101	BCR	C20-C19-C18	-2.37	119.77	126.42
24	K	614	DD6	C21-C20-C15	-2.37	118.29	122.26
27	U	421	LMU	C1B-O1B-C4'	-2.37	112.11	117.96
22	U	411	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
22	B	805	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
22	I	606	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
24	V	614	DD6	C4-C3-C2	-2.37	118.63	123.47
22	G	602	CLA	C1-C2-C3	-2.36	121.95	126.04
22	X	409	CLA	CHB-C4A-NA	2.36	127.78	124.51
22	L	408	CLA	O2D-CGD-O1D	-2.36	119.22	123.84
31	W	407	CHL	CHA-C1A-NA	-2.36	120.98	126.40
31	U	407	CHL	CHC-C1C-NC	2.36	127.79	124.20
22	V	613	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
27	B	854	LMU	C1-O1'-C1'	-2.36	109.92	113.84
22	T	610	CLA	CHB-C4A-NA	2.36	127.78	124.51
22	O	310	CLA	C1-C2-C3	-2.36	121.96	126.04
22	A	840	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
22	A	806	CLA	CHB-C4A-NA	2.36	127.78	124.51
24	X	401	DD6	C33-C34-C35	-2.36	107.07	110.30
24	U	417	DD6	C33-C34-C35	-2.36	107.07	110.30
22	S	608	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
27	B	857	LMU	C1B-O1B-C4'	-2.36	112.12	117.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	827	CLA	CHB-C4A-NA	2.36	127.78	124.51
22	W	413	CLA	CHB-C4A-NA	2.36	127.78	124.51
24	W	417	DD6	C21-C20-C15	-2.36	118.31	122.26
21	B	843	BCR	C38-C26-C25	-2.36	121.88	124.53
22	K	602	CLA	CHB-C4A-NA	2.36	127.78	124.51
22	N	604	CLA	CHB-C4A-NA	2.36	127.78	124.51
22	A	817	CLA	CHB-C4A-NA	2.36	127.78	124.51
22	B	817	CLA	CHB-C4A-NA	2.36	127.77	124.51
22	L	403	CLA	CHB-C4A-NA	2.36	127.77	124.51
22	B	839	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
22	G	605	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
22	A	826	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
22	K	609	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
22	T	604	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
22	B	804	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
31	W	422	CHL	CHC-C1C-NC	2.36	127.78	124.20
31	X	406	CHL	CHC-C1C-NC	2.36	127.78	124.20
22	L	403	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
22	X	413	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
22	F	404	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
22	L	402	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
24	S	612	DD6	C14-C13-C11	-2.35	121.88	125.53
22	X	408	CLA	C1B-CHB-C4A	-2.35	125.45	130.12
22	H	318	CLA	CHB-C4A-NA	2.35	127.77	124.51
22	J	102	CLA	CHB-C4A-NA	2.35	127.77	124.51
22	W	404	CLA	C1B-CHB-C4A	-2.35	125.45	130.12
22	W	406	CLA	C1B-CHB-C4A	-2.35	125.45	130.12
22	A	819	CLA	O2A-CGA-O1A	-2.35	117.65	123.59
25	B	847	DGD	O1G-C1A-O1A	-2.35	117.65	123.59
22	L	410	CLA	CHB-C4A-NA	2.35	127.77	124.51
22	B	833	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
24	F	406	DD6	C4-C3-C2	-2.35	118.66	123.47
22	A	811	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
22	B	832	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
22	U	403	CLA	O2D-CGD-CBD	2.35	115.44	111.27
31	X	406	CHL	CHA-C1A-NA	-2.35	121.02	126.40
22	G	608	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
22	B	810	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
31	U	408	CHL	CHA-C1A-NA	-2.35	121.02	126.40
22	H	307	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
22	A	827	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
22	K	617	CLA	C1B-CHB-C4A	-2.35	125.47	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	U	415	CLA	CHB-C4A-NA	2.35	127.75	124.51
22	A	806	CLA	C1B-CHB-C4A	-2.34	125.47	130.12
22	O	305	CLA	CHB-C4A-NA	2.34	127.75	124.51
22	V	601	CLA	C1B-CHB-C4A	-2.34	125.47	130.12
22	L	408	CLA	C6-C7-C8	-2.34	108.34	115.92
22	U	420	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
22	U	406	CLA	CHB-C4A-NA	2.34	127.75	124.51
24	I	612	DD6	C14-C13-C11	-2.34	121.90	125.53
31	V	605	CHL	CHC-C1C-NC	2.34	127.75	124.20
22	R	609	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
22	B	813	CLA	CHB-C4A-NA	2.34	127.75	124.51
22	U	404	CLA	CHB-C4A-NA	2.34	127.75	124.51
31	W	408	CHL	CHB-C4A-NA	2.34	127.75	124.51
22	A	823	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
22	O	315	CLA	CHB-C4A-NA	2.34	127.74	124.51
22	P	606	CLA	CHB-C4A-NA	2.34	127.74	124.51
22	B	803	CLA	O2D-CGD-CBD	2.34	115.42	111.27
22	B	819	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
24	F	406	DD6	C24-C1-C2	2.33	122.52	118.94
22	I	602	CLA	C1B-CHB-C4A	-2.33	125.49	130.12
22	T	601	CLA	C1B-CHB-C4A	-2.33	125.49	130.12
22	X	402	CLA	C1B-CHB-C4A	-2.33	125.49	130.12
22	B	820	CLA	O2D-CGD-CBD	2.33	115.42	111.27
22	P	608	CLA	O2D-CGD-CBD	2.33	115.42	111.27
22	N	607	CLA	CHB-C4A-NA	2.33	127.74	124.51
22	H	318	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
22	O	306	CLA	CHB-C4A-NA	2.33	127.74	124.51
22	H	303	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
22	A	839	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
22	L	411	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
22	W	402	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
22	K	607	CLA	CHB-C4A-NA	2.33	127.74	124.51
22	G	602	CLA	O2A-CGA-O1A	-2.33	117.71	123.59
22	A	815	CLA	CHB-C4A-NA	2.33	127.73	124.51
22	B	823	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
28	G	616	LMG	C38-C37-C36	-2.33	102.60	114.42
28	I	614	LMG	O1-C1-C2	-2.33	104.67	108.30
22	W	411	CLA	CHB-C4A-NA	2.33	127.73	124.51
22	X	419	CLA	CHB-C4A-NA	2.33	127.73	124.51
22	A	809	CLA	O2A-CGA-O1A	-2.33	117.72	123.59
22	B	812	CLA	CHB-C4A-NA	2.33	127.73	124.51
22	O	313	CLA	C1B-CHB-C4A	-2.33	125.51	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	R	602	CLA	CHD-C1D-ND	-2.33	122.32	124.45
24	R	613	DD6	C-C1-C2	-2.33	119.67	122.92
28	J	101	LMG	C38-C37-C36	-2.32	102.62	114.42
22	B	811	CLA	C1B-CHB-C4A	-2.32	125.51	130.12
22	N	602	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
22	T	606	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
22	X	410	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
22	B	816	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
25	O	304	DGD	O1G-C1A-O1A	-2.32	117.73	123.59
24	R	613	DD6	C12-C11-C13	2.32	121.74	118.08
28	K	622	LMG	C38-C37-C36	-2.32	102.64	114.42
24	P	613	DD6	C-C1-C2	-2.32	119.67	122.92
22	U	401	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
22	K	608	CLA	CHB-C4A-NA	2.32	127.72	124.51
28	B	856	LMG	C38-C37-C36	-2.32	102.64	114.42
22	Q	608	CLA	C1-C2-C3	-2.32	123.00	126.75
22	B	828	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
22	O	307	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
22	U	415	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
22	Q	603	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
22	S	614	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
22	O	314	CLA	CHB-C4A-NA	2.32	127.72	124.51
22	R	607	CLA	CMB-C2B-C3B	2.32	129.01	124.68
22	W	402	CLA	CHB-C4A-NA	2.32	127.71	124.51
24	I	613	DD6	O1-C20-C19	-2.31	111.64	113.38
31	U	408	CHL	CHC-C1C-NC	2.31	127.72	124.20
22	V	609	CLA	C1B-CHB-C4A	-2.31	125.53	130.12
28	L	401	LMG	C38-C37-C36	-2.31	102.68	114.42
22	P	610	CLA	CAA-C2A-C3A	-2.31	110.70	116.10
22	H	305	CLA	C1B-CHB-C4A	-2.31	125.53	130.12
22	A	814	CLA	C1B-CHB-C4A	-2.31	125.53	130.12
22	A	821	CLA	C1B-CHB-C4A	-2.31	125.53	130.12
22	T	605	CLA	CHB-C4A-NA	2.31	127.71	124.51
22	N	605	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
21	M	101	BCR	C16-C15-C14	-2.31	118.74	123.47
24	K	615	DD6	C21-C20-C15	-2.31	118.39	122.26
22	P	604	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
22	W	419	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
22	K	602	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
22	L	404	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
22	L	417	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
27	K	620	LMU	C5'-O5'-C1'	2.31	117.05	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	V	610	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
22	A	808	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
31	U	407	CHL	CHA-C1A-NA	-2.31	121.11	126.40
27	U	422	LMU	C1B-O1B-C4'	-2.31	112.25	117.96
22	A	840	CLA	CHB-C4A-NA	2.31	127.70	124.51
22	U	412	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
22	A	833	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
31	V	605	CHL	CHA-C1A-NA	-2.31	121.11	126.40
21	A	849	BCR	C1-C6-C5	-2.31	119.36	122.61
22	O	319	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
22	X	407	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
24	O	317	DD6	C3-C4-C5	-2.31	118.75	123.47
24	Q	615	DD6	C21-C20-C15	-2.30	118.40	122.26
22	B	802	CLA	O1D-CGD-CBD	2.30	129.20	124.48
28	I	614	LMG	O3-C3-C2	-2.30	105.02	110.35
22	P	605	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
24	V	614	DD6	C14-C13-C11	-2.30	121.96	125.53
22	T	602	CLA	CHB-C4A-NA	2.30	127.70	124.51
22	A	818	CLA	CHB-C4A-NA	2.30	127.70	124.51
30	O	302	SQD	O8-S-C6	-2.30	102.07	105.74
22	T	607	CLA	CHB-C4A-NA	2.30	127.69	124.51
22	I	605	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
24	I	613	DD6	C25-C24-C1	-2.30	119.95	126.42
22	T	602	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
22	Q	609	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
22	A	819	CLA	CHB-C4A-NA	2.30	127.69	124.51
21	B	842	BCR	C15-C16-C17	-2.30	118.77	123.47
22	X	411	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
22	T	609	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
22	N	610	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
22	R	605	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
23	B	840	PQN	C2M-C2-C3	-2.29	120.66	124.40
22	A	820	CLA	C1-C2-C3	-2.29	122.08	126.04
22	W	403	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
28	K	618	LMG	C38-C37-C36	-2.29	102.79	114.42
22	B	822	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
22	G	610	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
22	V	612	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
24	L	413	DD6	C33-C34-C35	-2.29	107.17	110.30
24	A	858	DD6	C37-C36-C35	2.29	118.60	114.36
22	B	826	CLA	CHB-C4A-NA	2.29	127.68	124.51
24	U	416	DD6	C33-C34-C35	-2.29	107.17	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	O	308	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
22	S	609	CLA	CHB-C4A-NA	2.29	127.68	124.51
22	A	831	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
22	B	836	CLA	O2A-CGA-O1A	-2.29	117.82	123.59
28	K	622	LMG	O3-C3-C2	-2.29	105.06	110.35
22	I	609	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
24	P	612	DD6	C28-C27-C29	2.29	121.37	116.84
24	T	612	DD6	O1-C20-C21	-2.29	112.31	115.06
22	Q	610	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
21	B	845	BCR	C21-C20-C19	-2.29	116.08	123.22
22	A	830	CLA	CHB-C4A-NA	2.29	127.67	124.51
24	L	415	DD6	C25-C26-C27	-2.29	119.94	126.58
24	U	417	DD6	C14-C13-C11	-2.29	121.98	125.53
28	U	402	LMG	C38-C37-C36	-2.28	102.83	114.42
22	K	611	CLA	C1B-CHB-C4A	-2.28	125.59	130.12
31	V	606	CHL	CHC-C1C-NC	2.28	127.67	124.20
22	S	602	CLA	C1B-CHB-C4A	-2.28	125.59	130.12
24	A	859	DD6	C37-C36-C35	2.28	118.58	114.36
22	V	611	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
22	A	828	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
22	N	604	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
22	A	816	CLA	O2A-CGA-O1A	-2.28	117.84	123.59
22	R	611	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
21	B	845	BCR	C38-C26-C27	2.28	117.99	113.62
22	I	607	CLA	CHB-C4A-NA	2.28	127.66	124.51
22	A	834	CLA	CHB-C4A-NA	2.28	127.66	124.51
24	L	414	DD6	C3-C4-C5	-2.28	118.81	123.47
22	Q	613	CLA	O1D-CGD-CBD	2.28	129.14	124.48
32	U	418	NEX	C5-C6-C1	2.28	121.95	119.70
24	A	847	DD6	C37-C36-C35	2.28	118.57	114.36
21	A	850	BCR	C37-C22-C21	-2.28	119.73	122.92
22	T	607	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
22	X	412	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
22	K	605	CLA	C1B-CHB-C4A	-2.27	125.61	130.12
22	A	806	CLA	O2D-CGD-CBD	2.27	115.31	111.27
22	B	818	CLA	C1B-CHB-C4A	-2.27	125.61	130.12
22	Q	609	CLA	CHB-C4A-NA	2.27	127.66	124.51
28	B	856	LMG	C42-C41-C40	-2.27	102.88	114.42
22	A	819	CLA	CMB-C2B-C3B	2.27	128.93	124.68
22	W	412	CLA	C1B-CHB-C4A	-2.27	125.61	130.12
22	N	610	CLA	CMB-C2B-C3B	2.27	128.93	124.68
24	R	612	DD6	O1-C20-C21	-2.27	112.33	115.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	W	418	DD6	C10-C9-C8	-2.27	116.13	123.22
24	G	613	DD6	C-C1-C2	-2.27	119.74	122.92
22	B	808	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
22	X	409	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
28	B	856	LMG	O3-C3-C2	-2.27	105.10	110.35
22	A	813	CLA	CHB-C4A-NA	2.27	127.65	124.51
21	B	845	BCR	C33-C5-C6	-2.27	121.98	124.53
22	A	805	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
22	I	610	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
22	B	809	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
22	R	611	CLA	CHB-C4A-NA	2.27	127.65	124.51
22	F	403	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
28	L	401	LMG	O3-C3-C2	-2.27	105.11	110.35
22	V	617	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
22	B	817	CLA	O2A-CGA-O1A	-2.27	117.87	123.59
22	R	605	CLA	O2A-CGA-O1A	-2.27	117.87	123.59
22	B	831	CLA	CHB-C4A-NA	2.27	127.65	124.51
28	J	101	LMG	O3-C3-C2	-2.27	105.11	110.35
31	W	408	CHL	CHC-C1C-NC	2.27	127.64	124.20
21	A	849	BCR	C8-C7-C6	-2.26	120.84	127.20
22	A	809	CLA	C1B-CHB-C4A	-2.26	125.63	130.12
24	H	315	DD6	C10-C9-C8	-2.26	116.15	123.22
24	L	414	DD6	C10-C9-C8	-2.26	116.15	123.22
22	N	611	CLA	CHB-C4A-NA	2.26	127.64	124.51
28	A	855	LMG	C38-C37-C36	-2.26	102.94	114.42
24	U	416	DD6	C28-C27-C29	2.26	121.32	116.84
24	L	415	DD6	C25-C24-C1	-2.26	120.06	126.42
22	R	615	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
22	L	406	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
22	S	604	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
22	N	611	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
24	O	317	DD6	O1-C20-C19	-2.26	111.69	113.38
22	I	604	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
24	U	417	DD6	C40-C32-C31	-2.26	106.88	110.47
22	B	806	CLA	CHB-C4A-NA	2.26	127.63	124.51
22	R	602	CLA	CHB-C4A-NA	2.26	127.63	124.51
21	A	851	BCR	C30-C25-C26	-2.26	119.44	122.61
31	U	408	CHL	CHB-C4A-NA	2.26	127.63	124.51
22	P	606	CLA	C1B-CHB-C4A	-2.26	125.65	130.12
22	U	403	CLA	C1B-CHB-C4A	-2.25	125.65	130.12
24	O	316	DD6	C37-C36-C35	2.25	118.53	114.36
22	N	606	CLA	C1B-CHB-C4A	-2.25	125.65	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	Q	601	CLA	C1B-CHB-C4A	-2.25	125.65	130.12
27	H	321	LMU	C1-O1'-C1'	-2.25	110.10	113.84
28	U	423	LMG	O3-C3-C2	-2.25	105.14	110.35
24	A	858	DD6	C33-C34-C35	-2.25	107.22	110.30
24	W	416	DD6	C37-C36-C35	2.25	118.53	114.36
22	Q	612	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
22	I	608	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
24	T	612	DD6	C10-C9-C8	-2.25	116.19	123.22
28	H	317	LMG	O3-C3-C2	-2.25	105.15	110.35
27	H	321	LMU	C1B-O1B-C4'	-2.25	111.86	115.33
22	A	803	CLA	C1-C2-C3	-2.25	122.15	126.04
22	A	820	CLA	CHB-C4A-NA	2.25	127.62	124.51
22	T	611	CLA	C1B-CHB-C4A	-2.25	125.67	130.12
28	J	101	LMG	C42-C41-C40	-2.25	103.02	114.42
21	J	103	BCR	C33-C5-C4	2.25	117.93	113.62
22	B	807	CLA	O2A-CGA-O1A	-2.25	117.92	123.59
21	B	801	BCR	C38-C26-C27	2.25	117.93	113.62
21	B	844	BCR	C3-C4-C5	-2.25	110.07	114.08
32	V	616	NEX	C5-C4-C3	2.25	114.40	111.75
24	T	612	DD6	C21-C20-C15	-2.25	118.50	122.26
24	X	414	DD6	C21-C20-C15	-2.24	118.50	122.26
22	P	603	CLA	CHB-C4A-NA	2.24	127.61	124.51
24	X	414	DD6	O1-C20-C21	-2.24	112.37	115.06
24	H	315	DD6	C37-C36-C35	2.24	118.51	114.36
22	B	812	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
22	H	306	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
22	K	608	CLA	C3C-C4C-NC	-2.24	108.06	110.57
22	I	605	CLA	CHD-C1D-ND	-2.24	122.39	124.45
22	N	611	CLA	CHD-C1D-ND	-2.24	122.39	124.45
28	B	856	LMG	O2-C2-C1	-2.24	104.61	110.05
22	S	609	CLA	O2D-CGD-CBD	2.24	115.25	111.27
24	S	611	DD6	O1-C20-C19	-2.24	111.70	113.38
31	V	606	CHL	CHB-C4A-NA	2.24	127.61	124.51
22	A	805	CLA	CHD-C1D-ND	-2.24	122.40	124.45
22	A	844	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
28	G	616	LMG	O1-C7-C8	-2.24	105.50	110.90
22	W	415	CLA	CHB-C4A-NA	2.24	127.60	124.51
21	B	801	BCR	C16-C17-C18	-2.24	124.12	127.31
28	F	408	LMG	C1-C2-C3	-2.24	105.34	110.00
22	V	604	CLA	C1B-CHB-C4A	-2.24	125.69	130.12
24	V	615	DD6	C34-C35-C36	-2.23	107.40	111.85
22	O	309	CLA	C1-C2-C3	-2.23	123.14	126.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	812	CLA	O2A-CGA-O1A	-2.23	117.95	123.59
22	A	820	CLA	CHD-C1D-ND	-2.23	122.40	124.45
24	H	315	DD6	C3-C4-C5	-2.23	118.90	123.47
24	A	847	DD6	C26-C25-C24	-2.23	116.25	123.22
22	L	405	CLA	C1B-CHB-C4A	-2.23	125.69	130.12
22	B	828	CLA	CHB-C4A-NA	2.23	127.60	124.51
24	I	613	DD6	C25-C26-C27	-2.23	120.10	126.58
22	G	604	CLA	C1B-CHB-C4A	-2.23	125.70	130.12
22	B	828	CLA	O2A-CGA-O1A	-2.23	117.96	123.59
22	S	605	CLA	C1B-CHB-C4A	-2.23	125.70	130.12
28	J	101	LMG	O1-C7-C8	-2.23	105.52	110.90
21	A	851	BCR	C20-C19-C18	-2.23	120.15	126.42
28	Q	602	LMG	O1-C7-C8	-2.23	105.52	110.90
22	U	414	CLA	C1B-CHB-C4A	-2.23	125.70	130.12
24	G	613	DD6	C25-C26-C27	-2.23	120.11	126.58
22	V	607	CLA	C1B-CHB-C4A	-2.23	125.70	130.12
28	H	317	LMG	C40-C39-C38	-2.23	103.12	114.42
24	B	841	DD6	C-C1-C2	-2.23	119.80	122.92
22	R	603	CLA	C1B-CHB-C4A	-2.23	125.71	130.12
24	G	613	DD6	C40-C32-C31	-2.23	106.93	110.47
28	K	618	LMG	C42-C41-C40	-2.22	103.13	114.42
21	B	846	BCR	C30-C25-C26	-2.22	119.48	122.61
22	B	814	CLA	CHB-C4A-NA	2.22	127.59	124.51
24	N	613	DD6	C25-C24-C1	-2.22	120.17	126.42
28	F	408	LMG	O3-C3-C2	-2.22	105.21	110.35
24	G	612	DD6	C21-C20-C15	-2.22	118.54	122.26
24	L	413	DD6	C14-C13-C11	-2.22	122.08	125.53
22	B	831	CLA	O2A-CGA-O1A	-2.22	117.99	123.59
22	W	414	CLA	C1B-CHB-C4A	-2.22	125.72	130.12
22	P	609	CLA	CHB-C4A-NA	2.22	127.58	124.51
22	K	608	CLA	O1D-CGD-CBD	2.22	129.03	124.48
24	L	414	DD6	C37-C36-C35	2.22	118.47	114.36
28	W	401	LMG	O3-C3-C2	-2.22	105.22	110.35
22	A	809	CLA	CHB-C4A-NA	2.22	127.58	124.51
22	V	603	CLA	CHB-C4A-NA	2.22	127.58	124.51
22	S	615	CLA	C1B-CHB-C4A	-2.22	125.73	130.12
24	K	614	DD6	C14-C13-C11	-2.22	122.09	125.53
22	B	839	CLA	O2A-CGA-O1A	-2.21	118.00	123.59
24	F	406	DD6	C37-C36-C35	2.21	118.46	114.36
22	L	412	CLA	CHB-C4A-NA	2.21	127.57	124.51
27	U	422	LMU	C1-O1'-C1'	-2.21	110.17	113.84
24	H	314	DD6	C4-C3-C2	-2.21	118.94	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	T	616	LMG	O3-C3-C2	-2.21	105.24	110.35
22	A	829	CLA	C1-C2-C3	-2.21	122.22	126.04
22	Q	604	CLA	O2A-CGA-O1A	-2.21	118.01	123.59
24	P	613	DD6	C10-C9-C8	-2.21	116.32	123.22
22	A	819	CLA	C1B-CHB-C4A	-2.21	125.74	130.12
22	A	835	CLA	O2D-CGD-CBD	2.21	115.19	111.27
22	A	808	CLA	O2A-CGA-O1A	-2.21	118.02	123.59
24	O	317	DD6	C40-C32-C31	-2.21	106.96	110.47
22	U	406	CLA	C1B-CHB-C4A	-2.21	125.75	130.12
21	A	848	BCR	C28-C27-C26	-2.21	110.14	114.08
22	N	610	CLA	O2A-CGA-O1A	-2.21	118.03	123.59
21	B	844	BCR	C21-C20-C19	-2.21	116.33	123.22
22	A	803	CLA	CHB-C4A-NA	2.20	127.56	124.51
28	K	601	LMG	O3-C3-C2	-2.20	105.25	110.35
22	A	801	CLA	O2A-CGA-O1A	-2.20	118.03	123.59
28	G	616	LMG	C42-C41-C40	-2.20	103.23	114.42
22	Q	606	CLA	C1B-CHB-C4A	-2.20	125.75	130.12
21	M	101	BCR	C38-C26-C25	-2.20	122.06	124.53
22	S	605	CLA	CHB-C4A-NA	2.20	127.56	124.51
22	B	829	CLA	O1D-CGD-CBD	2.20	128.99	124.48
22	B	825	CLA	CHD-C1D-ND	-2.20	122.43	124.45
22	H	309	CLA	CHD-C1D-ND	-2.20	122.43	124.45
22	B	838	CLA	CHB-C4A-NA	2.20	127.55	124.51
22	Q	607	CLA	C1B-CHB-C4A	-2.20	125.76	130.12
22	W	415	CLA	O1D-CGD-CBD	2.20	128.98	124.48
22	Q	617	CLA	C1B-CHB-C4A	-2.20	125.76	130.12
28	H	322	LMG	O3-C3-C2	-2.20	105.27	110.35
28	K	618	LMG	O3-C3-C2	-2.20	105.27	110.35
24	G	613	DD6	O1-C20-C21	-2.20	112.42	115.06
22	A	815	CLA	C1B-CHB-C4A	-2.20	125.77	130.12
24	I	613	DD6	C14-C13-C11	-2.19	122.12	125.53
24	T	613	DD6	C21-C20-C15	-2.19	118.58	122.26
24	K	615	DD6	C14-C13-C11	-2.19	122.13	125.53
22	K	606	CLA	C1B-CHB-C4A	-2.19	125.77	130.12
24	A	847	DD6	C33-C34-C35	-2.19	107.30	110.30
25	B	847	DGD	C3B-C2B-C1B	-2.19	105.65	113.62
22	B	822	CLA	O2A-CGA-O1A	-2.19	118.06	123.59
24	F	406	DD6	C33-C34-C35	-2.19	107.31	110.30
22	B	837	CLA	C1B-CHB-C4A	-2.19	125.78	130.12
22	W	403	CLA	C1-C2-C3	-2.19	122.26	126.04
21	B	846	BCR	C2-C1-C6	2.19	113.85	110.48
22	O	310	CLA	O2A-CGA-O1A	-2.19	118.07	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	Q	602	LMG	O3-C3-C2	-2.19	105.29	110.35
24	W	418	DD6	C32-C31-C36	-2.19	119.55	122.63
22	A	840	CLA	O2A-CGA-O1A	-2.19	118.07	123.59
22	B	815	CLA	CHB-C4A-NA	2.19	127.54	124.51
22	I	611	CLA	O1D-CGD-CBD	2.19	128.96	124.48
24	U	417	DD6	C-C1-C24	2.18	121.52	118.08
28	I	614	LMG	O2-C2-C1	-2.18	104.74	110.05
24	L	414	DD6	C25-C24-C1	-2.18	120.28	126.42
24	N	613	DD6	C37-C36-C35	2.18	118.40	114.36
22	X	409	CLA	O2A-CGA-O1A	-2.18	118.08	123.59
22	B	832	CLA	O2A-CGA-O1A	-2.18	118.08	123.59
27	O	322	LMU	C3'-C4'-C5'	-2.18	105.92	110.93
28	N	615	LMG	O3-C3-C2	-2.18	105.31	110.35
28	A	855	LMG	O1-C7-C8	-2.18	105.64	110.90
25	O	304	DGD	O5D-C6D-C5D	2.18	113.08	109.05
22	A	839	CLA	O2A-CGA-O1A	-2.18	118.09	123.59
22	R	610	CLA	CHD-C1D-ND	-2.18	122.45	124.45
24	O	316	DD6	C4-C3-C2	-2.18	119.01	123.47
22	A	827	CLA	O2A-CGA-O1A	-2.18	118.09	123.59
24	J	105	DD6	O1-C20-C21	-2.18	112.45	115.06
28	J	101	LMG	O2-C2-C1	-2.18	104.76	110.05
22	K	612	CLA	CHB-C4A-NA	2.18	127.52	124.51
24	W	418	DD6	O1-C20-C21	-2.18	112.45	115.06
21	B	846	BCR	C38-C26-C25	-2.18	122.08	124.53
28	N	615	LMG	O1-C7-C8	-2.18	105.65	110.90
22	H	308	CLA	O2A-CGA-O1A	-2.18	118.10	123.59
21	B	801	BCR	C35-C13-C14	-2.18	119.88	122.92
24	L	415	DD6	O1-C20-C21	-2.17	112.45	115.06
24	W	417	DD6	C37-C36-C35	2.17	118.38	114.36
22	F	403	CLA	O2A-CGA-O1A	-2.17	118.10	123.59
22	A	803	CLA	C2D-C1D-ND	-2.17	108.50	110.10
22	K	617	CLA	CHB-C4A-NA	2.17	127.52	124.51
33	A	802	CL0	C1D-CHD-C4C	-2.17	121.37	126.06
22	A	816	CLA	CHD-C1D-ND	-2.17	122.46	124.45
24	W	417	DD6	C14-C13-C11	-2.17	122.16	125.53
24	P	613	DD6	C37-C36-C35	2.17	118.38	114.36
22	R	604	CLA	CHD-C1D-ND	-2.17	122.46	124.45
22	I	603	CLA	CHB-C4A-NA	2.17	127.52	124.51
22	S	604	CLA	O2A-CGA-O1A	-2.17	118.11	123.59
22	S	606	CLA	C1-C2-C3	-2.17	123.24	126.75
28	T	616	LMG	O2-C2-C1	-2.17	104.77	110.05
22	R	611	CLA	CHD-C1D-ND	-2.17	122.46	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	803	CLA	CHD-C1D-ND	-2.17	122.46	124.45
22	A	833	CLA	CHD-C1D-ND	-2.17	122.46	124.45
22	I	602	CLA	O2A-CGA-O1A	-2.17	118.11	123.59
24	R	612	DD6	C37-C36-C35	2.17	118.38	114.36
24	K	615	DD6	C41-C32-C31	-2.17	107.02	110.47
22	S	601	CLA	C1B-CHB-C4A	-2.17	125.82	130.12
28	H	319	LMG	O3-C3-C2	-2.17	105.33	110.35
28	B	852	LMG	O2-C2-C1	-2.17	104.78	110.05
24	T	612	DD6	C37-C36-C35	2.17	118.37	114.36
24	T	612	DD6	C14-C13-C11	-2.17	122.17	125.53
22	R	604	CLA	C1B-CHB-C4A	-2.17	125.83	130.12
28	B	852	LMG	O3-C3-C2	-2.16	105.34	110.35
28	Q	602	LMG	O2-C2-C1	-2.16	104.79	110.05
22	W	413	CLA	C1B-CHB-C4A	-2.16	125.84	130.12
22	X	405	CLA	CHD-C1D-ND	-2.16	122.47	124.45
22	V	602	CLA	O2A-CGA-O1A	-2.16	118.14	123.59
22	A	829	CLA	CHB-C4A-NA	2.16	127.50	124.51
21	B	801	BCR	C4-C5-C6	-2.16	119.60	122.73
28	K	618	LMG	O2-C2-C1	-2.16	104.81	110.05
22	T	604	CLA	O2A-CGA-O1A	-2.16	118.15	123.59
22	F	405	CLA	CHB-C4A-NA	2.16	127.49	124.51
22	A	824	CLA	O2A-CGA-O1A	-2.16	118.15	123.59
22	K	612	CLA	CHD-C1D-ND	-2.16	122.47	124.45
24	S	611	DD6	C25-C24-C1	-2.16	120.36	126.42
28	W	401	LMG	C42-C41-C40	-2.15	103.49	114.42
21	A	851	BCR	C10-C11-C12	-2.15	116.50	123.22
22	A	852	CLA	O2A-CGA-O1A	-2.15	118.16	123.59
24	X	401	DD6	C4-C3-C2	-2.15	119.06	123.47
22	Q	609	CLA	O2A-CGA-O1A	-2.15	118.16	123.59
24	R	612	DD6	C21-C20-C15	-2.15	118.66	122.26
28	A	855	LMG	O3-C3-C2	-2.15	105.38	110.35
22	Q	605	CLA	CHD-C1D-ND	-2.15	122.48	124.45
22	A	824	CLA	C1-C2-C3	-2.15	122.33	126.04
22	A	840	CLA	C1-C2-C3	-2.15	122.33	126.04
24	G	612	DD6	C14-C13-C11	-2.15	122.20	125.53
21	B	845	BCR	C33-C5-C4	2.15	117.74	113.62
22	A	816	CLA	CHB-C4A-NA	2.14	127.48	124.51
22	P	611	CLA	C1B-CHB-C4A	-2.14	125.87	130.12
22	B	816	CLA	CHD-C1D-ND	-2.14	122.48	124.45
24	V	614	DD6	C21-C20-C15	-2.14	118.67	122.26
22	B	826	CLA	CHD-C1D-ND	-2.14	122.49	124.45
22	N	610	CLA	C1-C2-C3	-2.14	122.34	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	H	317	LMG	O2-C2-C1	-2.14	104.85	110.05
28	F	408	LMG	O2-C2-C1	-2.14	104.85	110.05
32	U	418	NEX	C5-C4-C3	2.14	114.28	111.75
22	B	825	CLA	C1B-CHB-C4A	-2.14	125.89	130.12
21	B	846	BCR	C34-C9-C8	2.14	121.44	118.08
24	R	613	DD6	C21-C20-C15	-2.14	118.68	122.26
22	B	812	CLA	C1-C2-C3	-2.14	122.35	126.04
21	M	101	BCR	C3-C4-C5	-2.13	110.27	114.08
28	K	622	LMG	O2-C2-C1	-2.13	104.86	110.05
33	A	802	CL0	C3C-C4C-NC	2.13	112.96	110.57
22	H	311	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
22	P	611	CLA	O1D-CGD-CBD	2.13	128.85	124.48
24	O	317	DD6	C25-C26-C27	-2.13	120.39	126.58
22	A	810	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
21	B	801	BCR	C34-C9-C10	-2.13	119.94	122.92
22	B	827	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
22	L	403	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
22	T	606	CLA	C1-C2-C3	-2.13	123.30	126.75
28	U	402	LMG	O3-C3-C2	-2.13	105.42	110.35
28	L	401	LMG	O1-C7-C8	-2.13	105.76	110.90
22	A	819	CLA	O1D-CGD-CBD	2.13	128.84	124.48
25	F	401	DGD	O2G-C1B-O1B	-2.13	118.56	123.70
24	K	614	DD6	C40-C32-C31	-2.13	107.08	110.47
24	G	613	DD6	C10-C9-C8	-2.13	116.57	123.22
28	W	401	LMG	O7-C10-O9	-2.13	118.56	123.70
22	B	830	CLA	CHB-C4A-NA	2.13	127.45	124.51
28	H	322	LMG	O2-C2-C1	-2.13	104.88	110.05
28	K	601	LMG	O7-C10-O9	-2.13	118.56	123.70
22	R	601	CLA	CHD-C1D-ND	-2.13	122.50	124.45
22	A	825	CLA	O2A-CGA-O1A	-2.12	118.23	123.59
27	O	303	LMU	C1B-O1B-C4'	-2.12	112.71	117.96
22	O	319	CLA	CHD-C1D-ND	-2.12	122.50	124.45
24	A	847	DD6	O1-C20-C21	-2.12	112.51	115.06
31	W	422	CHL	CAA-C2A-C1A	2.12	118.93	111.97
31	W	408	CHL	C1-C2-C3	-2.12	122.37	126.04
24	X	416	DD6	C32-C31-C36	-2.12	119.64	122.63
24	L	414	DD6	C25-C26-C27	-2.12	120.42	126.58
22	R	615	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
24	G	613	DD6	C25-C24-C1	-2.12	120.46	126.42
22	B	805	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
24	V	614	DD6	C37-C36-C35	2.12	118.28	114.36
28	K	601	LMG	O2-C2-C1	-2.12	104.90	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	W	418	DD6	C3-C4-C5	-2.12	119.14	123.47
24	R	613	DD6	C7-C6-C8	2.12	121.41	118.08
22	B	827	CLA	CHD-C1D-ND	-2.12	122.51	124.45
22	S	606	CLA	CHD-C1D-ND	-2.12	122.51	124.45
22	X	403	CLA	O2A-CGA-O1A	-2.12	118.25	123.59
27	O	322	LMU	O1'-C1'-C2'	2.12	111.61	108.30
22	A	830	CLA	C1-C2-C3	-2.12	122.38	126.04
22	A	810	CLA	O2D-CGD-CBD	2.12	115.03	111.27
22	Q	603	CLA	CHD-C1D-ND	-2.12	122.51	124.45
24	V	615	DD6	C25-C26-C27	-2.12	120.44	126.58
22	N	603	CLA	O2A-CGA-O1A	-2.11	118.25	123.59
22	L	408	CLA	CHB-C4A-NA	2.11	127.44	124.51
22	W	402	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
22	A	818	CLA	C1-C2-C3	-2.11	122.39	126.04
22	K	608	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
22	K	606	CLA	CHD-C1D-ND	-2.11	122.51	124.45
22	L	410	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
22	G	607	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
22	W	411	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
22	A	811	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
22	U	411	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
22	T	604	CLA	CHD-C1D-ND	-2.11	122.51	124.45
22	O	306	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
24	Q	615	DD6	C12-C11-C13	2.11	121.40	118.08
22	G	603	CLA	O2A-CGA-O1A	-2.11	118.27	123.59
24	N	612	DD6	C37-C36-C35	2.11	118.26	114.36
28	W	401	LMG	O2-C2-C1	-2.11	104.92	110.05
22	I	611	CLA	CHB-C4A-NA	2.11	127.43	124.51
28	A	855	LMG	O2-C2-C1	-2.11	104.93	110.05
22	B	825	CLA	O2A-CGA-O1A	-2.11	118.28	123.59
25	O	304	DGD	C3D-C4D-C5D	2.11	114.00	110.24
24	I	613	DD6	C10-C9-C8	-2.11	116.64	123.22
24	N	613	DD6	C33-C34-C35	-2.11	107.42	110.30
22	W	415	CLA	C2D-C1D-ND	-2.10	108.55	110.10
22	X	410	CLA	O2A-CGA-O1A	-2.10	118.28	123.59
24	K	614	DD6	C4-C3-C2	-2.10	119.16	123.47
24	V	614	DD6	O1-C20-C21	-2.10	112.53	115.06
22	P	605	CLA	CHD-C1D-ND	-2.10	122.52	124.45
22	V	602	CLA	CHD-C1D-ND	-2.10	122.52	124.45
22	A	801	CLA	CAC-C3C-C4C	2.10	127.54	124.81
22	T	603	CLA	O2A-CGA-O1A	-2.10	118.28	123.59
24	Q	615	DD6	C7-C6-C8	2.10	121.39	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	O	308	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
22	R	607	CLA	C1-C2-C3	-2.10	122.41	126.04
22	O	305	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
22	A	838	CLA	C1-C2-C3	-2.10	122.41	126.04
22	B	821	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
22	R	608	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
28	U	423	LMG	O2-C2-C1	-2.10	104.95	110.05
22	A	804	CLA	CHD-C1D-ND	-2.10	122.53	124.45
24	H	314	DD6	C37-C36-C35	2.10	118.24	114.36
21	B	844	BCR	C33-C5-C4	2.10	117.64	113.62
22	W	410	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
22	A	833	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
22	S	608	CLA	O2A-CGA-O1A	-2.09	118.08	123.30
24	X	415	DD6	C14-C13-C11	-2.09	122.28	125.53
22	A	828	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
22	H	311	CLA	C1-C2-C3	-2.09	122.42	126.04
24	R	613	DD6	C9-C10-C11	-2.09	124.32	127.31
22	S	605	CLA	CHD-C1D-ND	-2.09	122.53	124.45
22	T	602	CLA	CHD-C1D-ND	-2.09	122.53	124.45
24	O	317	DD6	C-C1-C2	-2.09	119.99	122.92
24	N	612	DD6	C4-C3-C2	-2.09	119.19	123.47
22	B	818	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
22	Q	605	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
22	R	610	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
28	N	615	LMG	O2-C2-C1	-2.09	104.97	110.05
24	X	401	DD6	C7-C6-C5	-2.09	120.00	122.92
28	G	616	LMG	O3-C3-C2	-2.09	105.52	110.35
27	O	320	LMU	C1B-O1B-C4'	-2.09	111.03	115.20
22	Q	613	CLA	C2D-C1D-ND	-2.09	108.56	110.10
22	K	602	CLA	O2A-CGA-O1A	-2.09	118.32	123.59
22	A	816	CLA	C1B-CHB-C4A	-2.09	125.98	130.12
26	A	845	LHG	C26-C25-C24	2.09	120.70	113.19
24	H	315	DD6	C21-C20-C15	-2.09	118.76	122.26
24	H	315	DD6	C9-C10-C11	-2.09	124.33	127.31
22	W	411	CLA	C1-C2-C3	-2.09	122.43	126.04
22	B	835	CLA	CHD-C1D-ND	-2.09	122.53	124.45
22	N	607	CLA	O2A-CGA-O1A	-2.09	118.33	123.59
22	B	833	CLA	O2A-CGA-O1A	-2.08	118.33	123.59
22	R	605	CLA	CHD-C1D-ND	-2.08	122.54	124.45
24	A	847	DD6	C7-C6-C5	-2.08	120.00	122.92
24	L	414	DD6	C9-C10-C11	-2.08	124.34	127.31
22	A	813	CLA	O2A-CGA-O1A	-2.08	118.33	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	I	603	CLA	O2D-CGD-CBD	2.08	114.97	111.27
22	A	852	CLA	CHB-C4A-NA	2.08	127.39	124.51
22	T	607	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
24	J	105	DD6	C4-C3-C2	-2.08	119.21	123.47
21	J	103	BCR	C38-C26-C27	2.08	117.62	113.62
24	L	415	DD6	C41-C32-C31	-2.08	107.16	110.47
22	K	607	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
27	K	620	LMU	C5'-C4'-C3'	2.08	112.51	109.40
24	V	615	DD6	C14-C13-C11	-2.08	122.30	125.53
22	A	817	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
22	B	836	CLA	CHB-C4A-NA	2.08	127.39	124.51
22	I	611	CLA	C2D-C1D-ND	-2.08	108.57	110.10
22	N	606	CLA	CHD-C1D-ND	-2.08	122.54	124.45
22	A	825	CLA	CHD-C1D-ND	-2.08	122.54	124.45
33	A	802	CL0	CHD-C1D-C2D	2.08	129.84	125.48
22	L	411	CLA	CHD-C1D-ND	-2.08	122.54	124.45
22	S	602	CLA	CHD-C1D-ND	-2.08	122.54	124.45
22	Q	611	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
24	I	613	DD6	O1-C20-C21	-2.08	112.57	115.06
26	S	613	LHG	C26-C25-C24	2.08	120.66	113.19
22	G	602	CLA	CHD-C1D-ND	-2.08	122.55	124.45
22	B	824	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
22	H	305	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
22	W	405	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
21	B	843	BCR	C10-C11-C12	-2.08	116.74	123.22
22	K	607	CLA	O2A-C1-C2	-2.08	103.18	108.64
22	S	608	CLA	CHD-C1D-ND	-2.08	122.55	124.45
22	B	835	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
22	V	608	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
22	X	405	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
22	R	603	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
22	K	608	CLA	O2D-CGD-O1D	-2.07	119.78	123.84
24	B	841	DD6	C37-C36-C35	2.07	118.19	114.36
22	S	602	CLA	C1-C2-C3	-2.07	122.46	126.04
28	H	317	LMG	C42-C41-C40	-2.07	103.91	114.42
21	M	101	BCR	C37-C22-C21	-2.07	120.02	122.92
22	A	829	CLA	CHD-C1D-ND	-2.07	122.55	124.45
22	K	607	CLA	O1D-CGD-CBD	2.07	128.72	124.48
28	B	856	LMG	O1-C7-C8	-2.07	105.91	110.90
22	B	804	CLA	C1-C2-C3	-2.07	122.47	126.04
22	B	802	CLA	CHB-C4A-NA	2.07	127.37	124.51
24	R	612	DD6	O1-C20-C19	-2.07	111.83	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	N	613	DD6	O1-C20-C21	-2.07	112.58	115.06
22	V	609	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
22	H	302	CLA	CHD-C1D-ND	-2.07	122.56	124.45
22	W	412	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
24	N	613	DD6	C25-C26-C27	-2.06	120.58	126.58
22	A	831	CLA	O2A-CGA-O1A	-2.06	118.38	123.59
22	B	859	CLA	CHD-C1D-ND	-2.06	122.56	124.45
28	K	618	LMG	O1-C1-C2	-2.06	105.08	108.30
33	A	802	CL0	C3B-C4B-NB	2.06	111.88	109.21
28	G	616	LMG	O2-C2-C1	-2.06	105.04	110.05
22	O	312	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
21	A	849	BCR	C4-C5-C6	-2.06	119.74	122.73
28	K	622	LMG	O1-C7-C8	-2.06	105.92	110.90
22	X	407	CLA	CHD-C1D-ND	-2.06	122.56	124.45
22	G	603	CLA	O2D-CGD-CBD	2.06	114.93	111.27
22	A	837	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
22	W	403	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
22	A	815	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
28	H	319	LMG	O7-C10-O9	-2.06	118.72	123.70
22	T	606	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
22	X	412	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
24	Q	615	DD6	C-C1-C2	-2.06	120.04	122.92
22	S	615	CLA	O2A-CGA-O1A	-2.06	118.40	123.59
28	H	317	LMG	O1-C7-C8	-2.06	105.94	110.90
22	N	606	CLA	O2A-CGA-O1A	-2.06	118.40	123.59
22	A	801	CLA	CHB-C4A-NA	2.06	127.36	124.51
22	R	615	CLA	C1-C2-C3	-2.06	122.49	126.04
24	Q	614	DD6	C37-C36-C35	2.06	118.17	114.36
22	I	606	CLA	CHD-C1D-ND	-2.06	122.56	124.45
22	Q	601	CLA	CHD-C1D-ND	-2.05	122.57	124.45
22	R	601	CLA	C1-C2-C3	-2.05	122.49	126.04
22	L	408	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
22	A	822	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
24	Q	614	DD6	C14-C13-C11	-2.05	122.34	125.53
22	X	409	CLA	C1-C2-C3	-2.05	122.49	126.04
22	A	809	CLA	CHD-C1D-ND	-2.05	122.57	124.45
22	A	827	CLA	CHD-C1D-ND	-2.05	122.57	124.45
22	T	605	CLA	CHD-C1D-ND	-2.05	122.57	124.45
22	H	304	CLA	CHD-C1D-ND	-2.05	122.57	124.45
22	R	606	CLA	CHD-C1D-ND	-2.05	122.57	124.45
22	A	814	CLA	CHD-C1D-ND	-2.05	122.57	124.45
24	G	613	DD6	C14-C13-C11	-2.05	122.35	125.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	X	417	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
24	L	415	DD6	C12-C11-C10	-2.05	120.05	122.92
22	S	607	CLA	CHD-C1D-ND	-2.05	122.57	124.45
24	I	612	DD6	C21-C20-C15	-2.05	118.83	122.26
22	O	311	CLA	CHD-C1D-ND	-2.05	122.57	124.45
24	L	413	DD6	C4-C3-C2	-2.05	119.28	123.47
22	V	604	CLA	O2A-CGA-O1A	-2.05	118.43	123.59
22	A	836	CLA	O2A-CGA-O1A	-2.04	118.43	123.59
22	I	610	CLA	CHD-C1D-ND	-2.04	122.58	124.45
22	O	305	CLA	CHD-C1D-ND	-2.04	122.58	124.45
22	X	402	CLA	CHD-C1D-ND	-2.04	122.58	124.45
24	N	612	DD6	C28-C27-C29	2.04	120.89	116.84
24	T	613	DD6	C14-C13-C11	-2.04	122.36	125.53
22	U	404	CLA	CHD-C1D-ND	-2.04	122.58	124.45
22	V	607	CLA	CHD-C1D-ND	-2.04	122.58	124.45
22	H	303	CLA	CHD-C1D-ND	-2.04	122.58	124.45
28	L	401	LMG	O2-C2-C1	-2.04	105.08	110.05
22	A	821	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
26	B	851	LHG	C26-C25-C24	2.04	120.53	113.19
24	S	612	DD6	C37-C36-C35	2.04	118.14	114.36
24	L	414	DD6	C-C1-C2	-2.04	120.06	122.92
26	K	616	LHG	C26-C25-C24	2.04	120.52	113.19
31	W	408	CHL	CAA-C2A-C1A	2.04	118.66	111.97
22	S	609	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
22	O	315	CLA	CHD-C1D-ND	-2.04	122.58	124.45
22	B	809	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
28	Q	602	LMG	O1-C1-C2	-2.04	105.12	108.30
22	A	816	CLA	C2D-C1D-ND	-2.04	108.60	110.10
22	I	602	CLA	CHD-C1D-ND	-2.04	122.58	124.45
22	H	303	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
24	A	858	DD6	C25-C26-C27	-2.04	120.67	126.58
22	T	605	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
22	U	401	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
26	O	318	LHG	C26-C25-C24	2.04	120.51	113.19
22	L	406	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
21	B	846	BCR	C8-C7-C6	-2.04	121.48	127.20
22	U	401	CLA	CHD-C1D-ND	-2.03	122.58	124.45
24	K	614	DD6	C26-C25-C24	-2.03	116.87	123.22
25	O	304	DGD	C6D-O5D-C1E	-2.03	109.76	113.74
21	B	844	BCR	C15-C16-C17	-2.03	119.31	123.47
21	B	846	BCR	C38-C26-C27	2.03	117.52	113.62
22	A	807	CLA	CHD-C1D-ND	-2.03	122.59	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	837	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	A	852	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	U	414	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
22	O	311	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
22	W	414	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
22	F	403	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	G	601	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	Q	617	CLA	C1-C2-C3	-2.03	122.53	126.04
22	X	408	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
22	A	838	CLA	O2D-CGD-CBD	2.03	114.88	111.27
22	T	611	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
22	L	404	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	F	404	CLA	C2D-C1D-ND	-2.03	108.61	110.10
22	L	408	CLA	C11-C10-C8	-2.03	109.36	115.92
22	A	812	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	A	823	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	L	404	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
24	T	613	DD6	C33-C34-C35	-2.03	107.53	110.30
22	L	409	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
22	I	601	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
22	N	602	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	V	610	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	A	836	CLA	CHD-C1D-ND	-2.03	122.59	124.45
27	L	420	LMU	C1-O1'-C1'	-2.03	110.02	113.73
31	V	606	CHL	C3D-C4D-ND	2.03	113.52	110.24
22	R	604	CLA	O2A-CGA-O1A	-2.03	118.25	123.30
22	B	810	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	P	602	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	P	604	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	B	803	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
22	B	830	CLA	O2D-CGD-CBD	2.03	114.87	111.27
24	L	415	DD6	C9-C8-C6	-2.03	120.72	126.42
22	X	407	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
22	K	613	CLA	CHD-C1D-ND	-2.03	122.59	124.45
22	V	612	CLA	CHD-C1D-ND	-2.03	122.59	124.45
31	U	407	CHL	C3D-C4D-ND	2.02	113.51	110.24
22	H	311	CLA	CHD-C1D-ND	-2.02	122.59	124.45
24	X	414	DD6	C4-C3-C2	-2.02	119.33	123.47
21	A	850	BCR	C20-C19-C18	-2.02	120.73	126.42
22	T	602	CLA	O2A-CGA-O1A	-2.02	118.48	123.59
22	H	313	CLA	O2D-CGD-CBD	2.02	114.86	111.27
24	K	614	DD6	O1-C20-C21	-2.02	112.63	115.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	813	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
22	A	812	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
22	A	844	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
24	S	611	DD6	C10-C9-C8	-2.02	116.91	123.22
21	B	846	BCR	C28-C27-C26	-2.02	110.47	114.08
24	S	611	DD6	C-C1-C2	-2.02	120.09	122.92
22	A	844	CLA	C1-C2-C3	-2.02	122.55	126.04
22	R	604	CLA	CHB-C4A-NA	2.02	127.30	124.51
22	Q	608	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
22	R	607	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
24	N	613	DD6	C-C1-C2	-2.02	120.10	122.92
25	B	847	DGD	C2G-O2G-C1B	-2.02	112.82	117.79
24	H	314	DD6	C14-C13-C11	-2.02	122.40	125.53
22	L	411	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
22	L	417	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
33	A	802	CL0	C4C-C3C-C2C	-2.02	103.96	106.90
24	N	613	DD6	C12-C11-C10	-2.02	120.10	122.92
22	B	806	CLA	CHD-C1D-ND	-2.02	122.60	124.45
22	B	804	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
22	R	601	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
22	O	312	CLA	C1-C2-C3	-2.02	122.56	126.04
28	H	322	LMG	O1-C7-C8	-2.02	106.04	110.90
22	W	414	CLA	C1-C2-C3	-2.02	122.56	126.04
24	A	859	DD6	O1-C20-C21	-2.01	112.64	115.06
24	P	613	DD6	C7-C6-C8	2.01	121.25	118.08
27	O	322	LMU	C1B-O5B-C5B	2.01	117.64	113.69
24	S	612	DD6	C26-C25-C24	-2.01	116.93	123.22
24	L	415	DD6	C-C1-C2	-2.01	120.10	122.92
22	Q	610	CLA	CHD-C1D-ND	-2.01	122.61	124.45
22	A	811	CLA	CHD-C1D-ND	-2.01	122.61	124.45
22	U	406	CLA	O2A-CGA-O1A	-2.01	118.52	123.59
22	Q	613	CLA	O2A-CGA-O1A	-2.01	118.29	123.30
21	B	801	BCR	C21-C20-C19	-2.01	116.94	123.22
22	G	611	CLA	CHD-C1D-ND	-2.01	122.61	124.45
24	F	406	DD6	C7-C6-C5	-2.01	120.11	122.92
22	B	828	CLA	O2D-CGD-CBD	2.01	114.84	111.27
22	B	832	CLA	CAA-CBA-CGA	-2.01	107.39	113.25
22	G	609	CLA	CHD-C1D-ND	-2.01	122.61	124.45
22	P	608	CLA	O2A-CGA-O1A	-2.01	118.30	123.30
22	K	611	CLA	O1D-CGD-CBD	2.01	128.59	124.48
22	X	402	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
22	I	608	CLA	O2A-CGA-O1A	-2.01	118.30	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	V	610	CLA	O2A-CGA-O1A	-2.01	118.30	123.30
22	A	835	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
22	L	407	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
22	W	409	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
22	A	837	CLA	C1-C2-C3	-2.01	123.51	126.75
25	O	304	DGD	C6E-C5E-C4E	-2.00	108.31	113.00
22	P	602	CLA	O2A-CGA-O1A	-2.00	118.30	123.30
22	W	414	CLA	CHD-C1D-ND	-2.00	122.61	124.45
22	R	606	CLA	O2A-CGA-O1A	-2.00	118.53	123.59
22	H	313	CLA	C1-C2-C3	-2.00	122.58	126.04
22	A	807	CLA	C1-C2-C3	-2.00	122.58	126.04
22	S	602	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
22	U	410	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
22	T	608	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
22	X	411	CLA	O2A-CGA-O1A	-2.00	118.31	123.30
22	H	310	CLA	O2A-CGA-O1A	-2.00	118.31	123.30
22	A	834	CLA	CHD-C1D-ND	-2.00	122.61	124.45
22	K	603	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
22	O	315	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
28	W	401	LMG	O1-C7-C8	-2.00	106.07	110.90
22	A	838	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
22	X	404	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
22	P	609	CLA	O2A-CGA-O1A	-2.00	118.31	123.30

All (304) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	B	802	CLA	ND
22	B	803	CLA	ND
22	B	804	CLA	ND
22	B	805	CLA	ND
22	B	806	CLA	ND
22	B	807	CLA	ND
22	B	808	CLA	ND
22	B	809	CLA	ND
22	B	810	CLA	ND
22	B	811	CLA	ND
22	B	812	CLA	ND
22	B	813	CLA	ND
22	B	814	CLA	ND
22	B	815	CLA	ND
22	B	816	CLA	ND

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Mol	Chain	Res	Type	Atom
22	B	817	CLA	ND
22	B	818	CLA	ND
22	B	819	CLA	ND
22	B	820	CLA	ND
22	B	821	CLA	ND
22	B	822	CLA	ND
22	B	823	CLA	ND
22	B	824	CLA	ND
22	B	825	CLA	ND
22	B	826	CLA	ND
22	B	827	CLA	ND
22	B	828	CLA	ND
22	B	829	CLA	ND
22	B	830	CLA	ND
22	B	831	CLA	ND
22	B	832	CLA	ND
22	B	833	CLA	ND
22	B	834	CLA	ND
22	B	835	CLA	ND
22	B	836	CLA	ND
22	B	837	CLA	ND
22	B	838	CLA	ND
22	B	839	CLA	ND
22	B	859	CLA	ND
22	F	403	CLA	ND
22	F	404	CLA	ND
22	F	405	CLA	ND
22	G	601	CLA	ND
22	G	602	CLA	ND
22	G	603	CLA	ND
22	G	604	CLA	ND
22	G	605	CLA	ND
22	G	606	CLA	ND
22	G	607	CLA	ND
22	G	608	CLA	ND
22	G	609	CLA	ND
22	G	610	CLA	ND
22	G	611	CLA	ND
22	H	302	CLA	ND
22	H	303	CLA	ND
22	H	304	CLA	ND
22	H	305	CLA	ND

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Mol	Chain	Res	Type	Atom
22	H	306	CLA	ND
22	H	307	CLA	ND
22	H	308	CLA	ND
22	H	309	CLA	ND
22	H	310	CLA	ND
22	H	311	CLA	ND
22	H	312	CLA	ND
22	H	313	CLA	ND
22	H	318	CLA	ND
22	I	601	CLA	ND
22	I	602	CLA	ND
22	I	603	CLA	ND
22	I	604	CLA	ND
22	I	605	CLA	ND
22	I	606	CLA	ND
22	I	607	CLA	ND
22	I	608	CLA	ND
22	I	609	CLA	ND
22	I	610	CLA	ND
22	I	611	CLA	ND
22	J	102	CLA	ND
22	K	602	CLA	ND
22	K	603	CLA	ND
22	K	604	CLA	ND
22	K	605	CLA	ND
22	K	606	CLA	ND
22	K	607	CLA	ND
22	K	608	CLA	ND
22	K	609	CLA	ND
22	K	610	CLA	ND
22	K	611	CLA	ND
22	K	612	CLA	ND
22	K	613	CLA	ND
22	K	617	CLA	ND
22	L	402	CLA	ND
22	L	403	CLA	ND
22	L	404	CLA	ND
22	L	405	CLA	ND
22	L	406	CLA	ND
22	L	407	CLA	ND
22	L	408	CLA	ND
22	L	409	CLA	ND

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Mol	Chain	Res	Type	Atom
22	L	410	CLA	ND
22	L	411	CLA	ND
22	L	412	CLA	ND
22	L	417	CLA	ND
22	N	601	CLA	ND
22	N	602	CLA	ND
22	N	603	CLA	ND
22	N	604	CLA	ND
22	N	605	CLA	ND
22	N	606	CLA	ND
22	N	607	CLA	ND
22	N	608	CLA	ND
22	N	609	CLA	ND
22	N	610	CLA	ND
22	N	611	CLA	ND
22	O	305	CLA	ND
22	O	306	CLA	ND
22	O	307	CLA	ND
22	O	308	CLA	ND
22	O	309	CLA	ND
22	O	310	CLA	ND
22	O	311	CLA	ND
22	O	312	CLA	ND
22	O	313	CLA	ND
22	O	314	CLA	ND
22	O	315	CLA	ND
22	O	319	CLA	ND
22	P	602	CLA	ND
22	P	604	CLA	ND
22	P	605	CLA	ND
22	P	606	CLA	ND
22	P	607	CLA	ND
22	P	608	CLA	ND
22	P	609	CLA	ND
22	P	610	CLA	ND
22	P	611	CLA	ND
22	Q	601	CLA	ND
22	Q	603	CLA	ND
22	Q	604	CLA	ND
22	Q	605	CLA	ND
22	Q	606	CLA	ND
22	Q	607	CLA	ND

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Mol	Chain	Res	Type	Atom
22	Q	608	CLA	ND
22	Q	609	CLA	ND
22	Q	610	CLA	ND
22	Q	611	CLA	ND
22	Q	612	CLA	ND
22	Q	613	CLA	ND
22	Q	617	CLA	ND
22	Q	618	CLA	ND
22	R	601	CLA	ND
22	R	602	CLA	ND
22	R	603	CLA	ND
22	R	604	CLA	ND
22	R	605	CLA	ND
22	R	606	CLA	ND
22	R	607	CLA	ND
22	R	608	CLA	ND
22	R	609	CLA	ND
22	R	610	CLA	ND
22	R	611	CLA	ND
22	R	615	CLA	ND
22	S	601	CLA	ND
22	S	602	CLA	ND
22	S	603	CLA	ND
22	S	604	CLA	ND
22	S	605	CLA	ND
22	S	606	CLA	ND
22	S	607	CLA	ND
22	S	608	CLA	ND
22	S	610	CLA	ND
22	S	614	CLA	ND
22	S	615	CLA	ND
22	T	601	CLA	ND
22	T	602	CLA	ND
22	T	603	CLA	ND
22	T	604	CLA	ND
22	T	605	CLA	ND
22	T	606	CLA	ND
22	T	607	CLA	ND
22	T	608	CLA	ND
22	T	609	CLA	ND
22	T	610	CLA	ND
22	T	611	CLA	ND

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Mol	Chain	Res	Type	Atom
22	U	401	CLA	ND
22	U	403	CLA	ND
22	U	404	CLA	ND
22	U	405	CLA	ND
22	U	406	CLA	ND
22	U	409	CLA	ND
22	U	410	CLA	ND
22	U	411	CLA	ND
22	U	412	CLA	ND
22	U	413	CLA	ND
22	U	414	CLA	ND
22	U	415	CLA	ND
22	U	420	CLA	ND
22	V	601	CLA	ND
22	V	602	CLA	ND
22	V	603	CLA	ND
22	V	604	CLA	ND
22	V	607	CLA	ND
22	V	608	CLA	ND
22	V	609	CLA	ND
22	V	610	CLA	ND
22	V	611	CLA	ND
22	V	612	CLA	ND
22	V	613	CLA	ND
22	V	617	CLA	ND
22	W	402	CLA	ND
22	W	403	CLA	ND
22	W	404	CLA	ND
22	W	405	CLA	ND
22	W	406	CLA	ND
22	W	409	CLA	ND
22	W	410	CLA	ND
22	W	411	CLA	ND
22	W	412	CLA	ND
22	W	413	CLA	ND
22	W	414	CLA	ND
22	W	415	CLA	ND
22	W	419	CLA	ND
22	X	402	CLA	ND
22	X	403	CLA	ND
22	X	404	CLA	ND
22	X	405	CLA	ND

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Mol	Chain	Res	Type	Atom
22	X	407	CLA	ND
22	X	408	CLA	ND
22	X	409	CLA	ND
22	X	410	CLA	ND
22	X	411	CLA	ND
22	X	412	CLA	ND
22	X	413	CLA	ND
22	X	417	CLA	ND
22	X	419	CLA	ND
22	A	801	CLA	ND
22	A	803	CLA	ND
22	A	804	CLA	ND
22	A	805	CLA	ND
22	A	806	CLA	ND
22	A	807	CLA	ND
22	A	808	CLA	ND
22	A	809	CLA	ND
22	A	810	CLA	ND
22	A	811	CLA	ND
22	A	812	CLA	ND
22	A	813	CLA	ND
22	A	814	CLA	ND
22	A	815	CLA	ND
22	A	816	CLA	ND
22	A	817	CLA	ND
22	A	818	CLA	ND
22	A	819	CLA	ND
22	A	820	CLA	ND
22	A	821	CLA	ND
22	A	822	CLA	ND
22	A	823	CLA	ND
22	A	824	CLA	ND
22	A	825	CLA	ND
22	A	826	CLA	ND
22	A	827	CLA	ND
22	A	828	CLA	ND
22	A	829	CLA	ND
22	A	830	CLA	ND
22	A	831	CLA	ND
22	A	832	CLA	ND
22	A	833	CLA	ND
22	A	834	CLA	ND

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Mol	Chain	Res	Type	Atom
22	A	835	CLA	ND
22	A	836	CLA	ND
22	A	837	CLA	ND
22	A	838	CLA	ND
22	A	839	CLA	ND
22	A	840	CLA	ND
22	A	841	CLA	ND
22	A	842	CLA	ND
22	A	844	CLA	ND
22	A	852	CLA	ND
31	U	407	CHL	ND
31	U	407	CHL	NA
31	U	407	CHL	NC
31	U	408	CHL	ND
31	U	408	CHL	NA
31	U	408	CHL	NC
31	V	605	CHL	ND
31	V	605	CHL	NA
31	V	605	CHL	NC
31	V	606	CHL	ND
31	V	606	CHL	NA
31	V	606	CHL	NC
31	W	407	CHL	ND
31	W	407	CHL	NA
31	W	407	CHL	NC
31	W	408	CHL	ND
31	W	408	CHL	NA
31	W	408	CHL	NC
31	W	422	CHL	ND
31	W	422	CHL	NA
31	W	422	CHL	NC
31	X	406	CHL	ND
31	X	406	CHL	NA
31	X	406	CHL	NC
33	A	802	CL0	ND
33	A	802	CL0	NA
33	A	802	CL0	NC

All (3369) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
21	B	801	BCR	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
21	B	801	BCR	C7-C8-C9-C34
21	B	842	BCR	C21-C22-C23-C24
21	B	842	BCR	C37-C22-C23-C24
21	B	845	BCR	C21-C22-C23-C24
21	B	845	BCR	C37-C22-C23-C24
21	B	846	BCR	C1-C6-C7-C8
21	B	846	BCR	C21-C22-C23-C24
21	B	846	BCR	C37-C22-C23-C24
21	M	101	BCR	C23-C24-C25-C26
21	A	850	BCR	C37-C22-C23-C24
22	B	804	CLA	C3A-C2A-CAA-CBA
22	B	804	CLA	CHA-CBD-CGD-O1D
22	B	804	CLA	CHA-CBD-CGD-O2D
22	B	804	CLA	CAD-CBD-CGD-O1D
22	B	804	CLA	CAD-CBD-CGD-O2D
22	B	806	CLA	CHA-CBD-CGD-O1D
22	B	806	CLA	CHA-CBD-CGD-O2D
22	B	812	CLA	C1A-C2A-CAA-CBA
22	B	812	CLA	CHA-CBD-CGD-O1D
22	B	812	CLA	CHA-CBD-CGD-O2D
22	B	812	CLA	CAD-CBD-CGD-O1D
22	B	815	CLA	C1A-C2A-CAA-CBA
22	B	815	CLA	C3A-C2A-CAA-CBA
22	B	816	CLA	C3A-C2A-CAA-CBA
22	B	818	CLA	CBD-CGD-O2D-CED
22	B	820	CLA	C2-C3-C5-C6
22	B	820	CLA	C4-C3-C5-C6
22	B	824	CLA	C3A-C2A-CAA-CBA
22	B	824	CLA	CHA-CBD-CGD-O1D
22	B	824	CLA	CHA-CBD-CGD-O2D
22	B	825	CLA	C1A-C2A-CAA-CBA
22	B	827	CLA	CHA-CBD-CGD-O1D
22	B	827	CLA	CHA-CBD-CGD-O2D
22	B	828	CLA	CHA-CBD-CGD-O1D
22	B	828	CLA	CHA-CBD-CGD-O2D
22	B	828	CLA	CAD-CBD-CGD-O1D
22	B	829	CLA	C1A-C2A-CAA-CBA
22	B	829	CLA	C3A-C2A-CAA-CBA
22	B	830	CLA	C11-C12-C13-C14
22	B	832	CLA	C2-C3-C5-C6
22	B	832	CLA	C4-C3-C5-C6
22	G	606	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	G	606	CLA	C3A-C2A-CAA-CBA
22	G	608	CLA	C1A-C2A-CAA-CBA
22	G	608	CLA	C3A-C2A-CAA-CBA
22	H	302	CLA	CHA-CBD-CGD-O1D
22	H	302	CLA	CHA-CBD-CGD-O2D
22	H	307	CLA	C1A-C2A-CAA-CBA
22	H	307	CLA	C3A-C2A-CAA-CBA
22	H	311	CLA	CHA-CBD-CGD-O1D
22	H	311	CLA	CHA-CBD-CGD-O2D
22	H	312	CLA	C1A-C2A-CAA-CBA
22	H	312	CLA	C3A-C2A-CAA-CBA
22	I	601	CLA	C1A-C2A-CAA-CBA
22	I	610	CLA	CHA-CBD-CGD-O1D
22	I	610	CLA	CHA-CBD-CGD-O2D
22	I	611	CLA	C1A-C2A-CAA-CBA
22	I	611	CLA	C3A-C2A-CAA-CBA
22	I	611	CLA	CHA-CBD-CGD-O1D
22	I	611	CLA	CHA-CBD-CGD-O2D
22	J	102	CLA	C1A-C2A-CAA-CBA
22	K	602	CLA	CHA-CBD-CGD-O1D
22	K	602	CLA	CHA-CBD-CGD-O2D
22	K	605	CLA	C1A-C2A-CAA-CBA
22	K	605	CLA	C3A-C2A-CAA-CBA
22	K	605	CLA	CHA-CBD-CGD-O1D
22	K	605	CLA	CHA-CBD-CGD-O2D
22	K	605	CLA	CAD-CBD-CGD-O1D
22	K	605	CLA	C6-C7-C8-C9
22	K	607	CLA	C1A-C2A-CAA-CBA
22	K	607	CLA	C3A-C2A-CAA-CBA
22	K	609	CLA	C1A-C2A-CAA-CBA
22	L	402	CLA	CHA-CBD-CGD-O1D
22	L	402	CLA	CHA-CBD-CGD-O2D
22	L	402	CLA	C2-C3-C5-C6
22	L	402	CLA	C4-C3-C5-C6
22	L	407	CLA	C1A-C2A-CAA-CBA
22	L	407	CLA	C3A-C2A-CAA-CBA
22	L	408	CLA	CBD-CGD-O2D-CED
22	L	409	CLA	CBD-CGD-O2D-CED
22	L	410	CLA	C1A-C2A-CAA-CBA
22	L	411	CLA	CHA-CBD-CGD-O1D
22	L	411	CLA	CHA-CBD-CGD-O2D
22	N	607	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	N	610	CLA	CHA-CBD-CGD-O1D
22	N	610	CLA	CHA-CBD-CGD-O2D
22	N	611	CLA	CBD-CGD-O2D-CED
22	O	305	CLA	CHA-CBD-CGD-O1D
22	O	308	CLA	C3A-C2A-CAA-CBA
22	O	309	CLA	C1A-C2A-CAA-CBA
22	O	309	CLA	C3A-C2A-CAA-CBA
22	O	313	CLA	C11-C10-C8-C7
22	P	602	CLA	C3A-C2A-CAA-CBA
22	P	602	CLA	CBD-CGD-O2D-CED
22	P	606	CLA	C1A-C2A-CAA-CBA
22	P	606	CLA	C3A-C2A-CAA-CBA
22	P	607	CLA	C1A-C2A-CAA-CBA
22	P	611	CLA	C1A-C2A-CAA-CBA
22	P	611	CLA	C3A-C2A-CAA-CBA
22	Q	606	CLA	CHA-CBD-CGD-O1D
22	Q	606	CLA	CHA-CBD-CGD-O2D
22	Q	608	CLA	C1A-C2A-CAA-CBA
22	Q	608	CLA	C3A-C2A-CAA-CBA
22	Q	613	CLA	C1A-C2A-CAA-CBA
22	R	602	CLA	C2-C3-C5-C6
22	R	602	CLA	C4-C3-C5-C6
22	R	606	CLA	C1A-C2A-CAA-CBA
22	R	606	CLA	C3A-C2A-CAA-CBA
22	R	606	CLA	CHA-CBD-CGD-O1D
22	R	606	CLA	CHA-CBD-CGD-O2D
22	R	606	CLA	CBD-CGD-O2D-CED
22	R	607	CLA	CBD-CGD-O2D-CED
22	R	611	CLA	C1A-C2A-CAA-CBA
22	R	611	CLA	C3A-C2A-CAA-CBA
22	R	611	CLA	CHA-CBD-CGD-O1D
22	R	611	CLA	CHA-CBD-CGD-O2D
22	S	605	CLA	C1A-C2A-CAA-CBA
22	S	605	CLA	C3A-C2A-CAA-CBA
22	S	605	CLA	C4-C3-C5-C6
22	S	606	CLA	C1A-C2A-CAA-CBA
22	S	607	CLA	C1A-C2A-CAA-CBA
22	S	608	CLA	C1A-C2A-CAA-CBA
22	S	608	CLA	C3A-C2A-CAA-CBA
22	T	601	CLA	CHA-CBD-CGD-O1D
22	T	601	CLA	CHA-CBD-CGD-O2D
22	T	606	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	T	606	CLA	C3A-C2A-CAA-CBA
22	T	608	CLA	CHA-CBD-CGD-O1D
22	T	608	CLA	CHA-CBD-CGD-O2D
22	T	611	CLA	C3A-C2A-CAA-CBA
22	T	611	CLA	CHA-CBD-CGD-O1D
22	T	611	CLA	CHA-CBD-CGD-O2D
22	T	611	CLA	CBD-CGD-O2D-CED
22	U	401	CLA	C1A-C2A-CAA-CBA
22	U	401	CLA	C3A-C2A-CAA-CBA
22	U	403	CLA	C1A-C2A-CAA-CBA
22	U	403	CLA	C3A-C2A-CAA-CBA
22	U	409	CLA	C1A-C2A-CAA-CBA
22	U	409	CLA	C3A-C2A-CAA-CBA
22	U	410	CLA	C1A-C2A-CAA-CBA
22	U	410	CLA	C3A-C2A-CAA-CBA
22	U	411	CLA	C4-C3-C5-C6
22	U	413	CLA	C1A-C2A-CAA-CBA
22	U	413	CLA	C3A-C2A-CAA-CBA
22	U	413	CLA	CBD-CGD-O2D-CED
22	U	415	CLA	C1A-C2A-CAA-CBA
22	U	415	CLA	C3A-C2A-CAA-CBA
22	U	415	CLA	CBD-CGD-O2D-CED
22	U	420	CLA	C1A-C2A-CAA-CBA
22	U	420	CLA	C3A-C2A-CAA-CBA
22	U	420	CLA	CHA-CBD-CGD-O1D
22	U	420	CLA	CHA-CBD-CGD-O2D
22	U	420	CLA	CBD-CGD-O2D-CED
22	V	601	CLA	CBD-CGD-O2D-CED
22	V	602	CLA	CBD-CGD-O2D-CED
22	V	604	CLA	CBD-CGD-O2D-CED
22	V	607	CLA	C2A-CAA-CBA-CGA
22	V	607	CLA	CBD-CGD-O2D-CED
22	V	608	CLA	CBD-CGD-O2D-CED
22	V	609	CLA	CBD-CGD-O2D-CED
22	V	612	CLA	CBD-CGD-O2D-CED
22	V	613	CLA	CHA-CBD-CGD-O1D
22	V	613	CLA	CHA-CBD-CGD-O2D
22	V	613	CLA	CAD-CBD-CGD-O1D
22	W	414	CLA	CBD-CGD-O2D-CED
22	W	419	CLA	CHA-CBD-CGD-O1D
22	W	419	CLA	CHA-CBD-CGD-O2D
22	X	402	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	X	402	CLA	C3A-C2A-CAA-CBA
22	X	402	CLA	O1A-CGA-O2A-C1
22	X	408	CLA	C1A-C2A-CAA-CBA
22	X	408	CLA	C3A-C2A-CAA-CBA
22	X	409	CLA	CBD-CGD-O2D-CED
22	X	410	CLA	CHA-CBD-CGD-O1D
22	X	413	CLA	C1A-C2A-CAA-CBA
22	X	413	CLA	C3A-C2A-CAA-CBA
22	X	417	CLA	CHA-CBD-CGD-O1D
22	X	417	CLA	CHA-CBD-CGD-O2D
22	X	417	CLA	CAD-CBD-CGD-O1D
22	X	417	CLA	CAD-CBD-CGD-O2D
22	X	419	CLA	C1A-C2A-CAA-CBA
22	X	419	CLA	C3A-C2A-CAA-CBA
22	X	419	CLA	CBD-CGD-O2D-CED
22	A	805	CLA	C1A-C2A-CAA-CBA
22	A	805	CLA	C3A-C2A-CAA-CBA
22	A	806	CLA	C1A-C2A-CAA-CBA
22	A	806	CLA	C3A-C2A-CAA-CBA
22	A	807	CLA	C1A-C2A-CAA-CBA
22	A	807	CLA	CHA-CBD-CGD-O1D
22	A	807	CLA	CHA-CBD-CGD-O2D
22	A	807	CLA	CAD-CBD-CGD-O1D
22	A	811	CLA	C1A-C2A-CAA-CBA
22	A	817	CLA	C2-C1-O2A-CGA
22	A	818	CLA	C1A-C2A-CAA-CBA
22	A	819	CLA	C1A-C2A-CAA-CBA
22	A	819	CLA	C3A-C2A-CAA-CBA
22	A	820	CLA	CHA-CBD-CGD-O1D
22	A	820	CLA	CHA-CBD-CGD-O2D
22	A	821	CLA	C1A-C2A-CAA-CBA
22	A	821	CLA	C3A-C2A-CAA-CBA
22	A	823	CLA	C2A-CAA-CBA-CGA
22	A	824	CLA	C2-C3-C5-C6
22	A	824	CLA	C4-C3-C5-C6
22	A	825	CLA	C1A-C2A-CAA-CBA
22	A	825	CLA	C3A-C2A-CAA-CBA
22	A	827	CLA	C3A-C2A-CAA-CBA
22	A	830	CLA	C1A-C2A-CAA-CBA
22	A	830	CLA	C2A-CAA-CBA-CGA
22	A	831	CLA	CHA-CBD-CGD-O1D
22	A	831	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
22	A	832	CLA	C1A-C2A-CAA-CBA
22	A	832	CLA	C3A-C2A-CAA-CBA
22	A	837	CLA	CHA-CBD-CGD-O1D
22	A	837	CLA	CHA-CBD-CGD-O2D
22	A	838	CLA	C1A-C2A-CAA-CBA
22	A	841	CLA	CHA-CBD-CGD-O1D
22	A	841	CLA	CHA-CBD-CGD-O2D
22	A	852	CLA	C1A-C2A-CAA-CBA
24	F	406	DD6	C5-C6-C8-C9
24	F	406	DD6	C7-C6-C8-C9
24	L	415	DD6	C10-C11-C13-C14
24	L	415	DD6	C12-C11-C13-C14
24	N	613	DD6	C27-C29-C30-C31
24	P	613	DD6	C-C1-C24-C25
24	P	613	DD6	C2-C1-C24-C25
24	P	613	DD6	C13-C14-C15-O1
24	R	613	DD6	C13-C14-C15-O1
24	S	611	DD6	C27-C29-C30-C31
24	T	613	DD6	C27-C29-C30-C31
24	X	416	DD6	C10-C11-C13-C14
24	X	416	DD6	C12-C11-C13-C14
24	A	858	DD6	C13-C14-C15-O1
25	B	847	DGD	O6D-C1D-O3G-C3G
25	B	847	DGD	C2E-C1E-O5D-C6D
25	B	847	DGD	O6E-C1E-O5D-C6D
25	O	304	DGD	O6D-C1D-O3G-C3G
25	O	304	DGD	C2E-C1E-O5D-C6D
25	O	304	DGD	O6E-C1E-O5D-C6D
26	B	848	LHG	O1-C1-C2-C3
26	B	848	LHG	O2-C2-C3-O3
26	B	848	LHG	C3-O3-P-O6
26	B	851	LHG	O2-C2-C3-O3
26	B	851	LHG	C4-O6-P-O3
26	B	851	LHG	C4-O6-P-O5
26	G	614	LHG	C3-O3-P-O5
26	H	316	LHG	C3-O3-P-O5
26	K	616	LHG	O7-C5-C6-O8
26	K	619	LHG	C1-C2-C3-O3
26	K	619	LHG	C3-O3-P-O4
26	K	619	LHG	C3-O3-P-O6
26	K	619	LHG	O6-C4-C5-O7
26	L	416	LHG	C3-O3-P-O5

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Mol	Chain	Res	Type	Atoms
26	N	614	LHG	C3-O3-P-O5
26	N	616	LHG	C4-O6-P-O3
26	N	616	LHG	C4-O6-P-O4
26	N	616	LHG	C4-O6-P-O5
26	N	616	LHG	O9-C7-O7-C5
26	O	318	LHG	C4-O6-P-O3
26	O	318	LHG	C4-O6-P-O4
26	O	321	LHG	O1-C1-C2-O2
26	O	321	LHG	O1-C1-C2-C3
26	O	321	LHG	C3-O3-P-O4
26	O	321	LHG	C3-O3-P-O5
26	O	321	LHG	O10-C23-O8-C6
26	O	321	LHG	C24-C23-O8-C6
26	O	323	LHG	O1-C1-C2-C3
26	O	323	LHG	O2-C2-C3-O3
26	O	323	LHG	C3-O3-P-O5
26	O	323	LHG	C4-O6-P-O5
26	O	324	LHG	O1-C1-C2-C3
26	O	324	LHG	C3-O3-P-O5
26	O	324	LHG	C4-O6-P-O5
26	P	601	LHG	O1-C1-C2-C3
26	P	601	LHG	O7-C5-C6-O8
26	P	601	LHG	C8-C7-O7-C5
26	Q	616	LHG	O1-C1-C2-C3
26	Q	616	LHG	C3-O3-P-O4
26	Q	616	LHG	C3-O3-P-O5
26	Q	616	LHG	C3-O3-P-O6
26	R	614	LHG	C3-O3-P-O4
26	R	614	LHG	C3-O3-P-O5
26	S	613	LHG	O1-C1-C2-C3
26	S	613	LHG	C3-O3-P-O4
26	S	613	LHG	C3-O3-P-O5
26	S	613	LHG	C4-O6-P-O4
26	S	613	LHG	C4-O6-P-O5
26	T	614	LHG	C3-O3-P-O4
26	T	614	LHG	C3-O3-P-O5
26	T	614	LHG	C3-O3-P-O6
26	T	614	LHG	C4-O6-P-O4
26	T	614	LHG	C4-O6-P-O5
26	U	419	LHG	C4-O6-P-O3
26	U	419	LHG	C4-O6-P-O5
26	U	419	LHG	C8-C7-O7-C5

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Mol	Chain	Res	Type	Atoms
26	W	420	LHG	C3-O3-P-O5
26	W	420	LHG	C4-O6-P-O4
26	W	420	LHG	C4-O6-P-O5
26	X	420	LHG	C1-C2-C3-O3
26	A	845	LHG	O1-C1-C2-O2
26	A	845	LHG	O1-C1-C2-C3
26	A	846	LHG	C4-O6-P-O3
26	A	846	LHG	C4-O6-P-O4
26	A	846	LHG	C4-O6-P-O5
26	A	846	LHG	C8-C7-O7-C5
27	J	104	LMU	C2-C1-O1'-C1'
27	K	620	LMU	C2-C1-O1'-C1'
27	O	322	LMU	C2-C1-O1'-C1'
27	A	857	LMU	C2-C1-O1'-C1'
28	B	852	LMG	C2-C1-O1-C7
28	B	852	LMG	O6-C1-O1-C7
28	B	856	LMG	O6-C1-O1-C7
28	F	408	LMG	O9-C10-O7-C8
28	H	317	LMG	O6-C1-O1-C7
28	H	317	LMG	O1-C7-C8-O7
28	H	319	LMG	C2-C1-O1-C7
28	H	319	LMG	O6-C1-O1-C7
28	H	319	LMG	O1-C7-C8-O7
28	K	601	LMG	O6-C1-O1-C7
28	K	601	LMG	O9-C10-O7-C8
28	K	601	LMG	C11-C10-O7-C8
28	K	618	LMG	O6-C1-O1-C7
28	L	401	LMG	C2-C1-O1-C7
28	L	401	LMG	O6-C1-O1-C7
28	N	615	LMG	O1-C7-C8-O7
28	N	615	LMG	C11-C10-O7-C8
28	T	616	LMG	C2-C1-O1-C7
28	T	616	LMG	O6-C1-O1-C7
28	T	616	LMG	C8-C7-O1-C1
28	U	402	LMG	C2-C1-O1-C7
28	U	402	LMG	O6-C1-O1-C7
28	U	402	LMG	O9-C10-O7-C8
28	U	402	LMG	C11-C10-O7-C8
28	U	423	LMG	C2-C1-O1-C7
28	U	423	LMG	O6-C1-O1-C7
28	W	401	LMG	C2-C1-O1-C7
28	W	401	LMG	O6-C1-O1-C7

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Mol	Chain	Res	Type	Atoms
28	W	401	LMG	C11-C10-O7-C8
30	O	302	SQD	O10-C23-O48-C46
30	O	302	SQD	C24-C23-O48-C46
31	W	422	CHL	C2-C3-C5-C6
31	W	422	CHL	C4-C3-C5-C6
22	R	606	CLA	O1D-CGD-O2D-CED
22	R	608	CLA	O1D-CGD-O2D-CED
22	I	610	CLA	O1D-CGD-O2D-CED
22	L	408	CLA	O1D-CGD-O2D-CED
22	P	602	CLA	O1D-CGD-O2D-CED
22	R	601	CLA	O1D-CGD-O2D-CED
22	R	609	CLA	O1D-CGD-O2D-CED
22	T	611	CLA	O1D-CGD-O2D-CED
22	U	415	CLA	O1D-CGD-O2D-CED
22	V	608	CLA	O1D-CGD-O2D-CED
22	V	612	CLA	O1D-CGD-O2D-CED
22	B	802	CLA	CBD-CGD-O2D-CED
22	B	813	CLA	CBD-CGD-O2D-CED
22	B	821	CLA	CBD-CGD-O2D-CED
22	B	826	CLA	CBD-CGD-O2D-CED
22	F	403	CLA	CBD-CGD-O2D-CED
22	F	405	CLA	CBD-CGD-O2D-CED
22	G	610	CLA	CBD-CGD-O2D-CED
22	H	307	CLA	CBD-CGD-O2D-CED
22	H	311	CLA	CBD-CGD-O2D-CED
22	I	601	CLA	CBD-CGD-O2D-CED
22	I	607	CLA	CBD-CGD-O2D-CED
22	I	609	CLA	CBD-CGD-O2D-CED
22	I	610	CLA	CBD-CGD-O2D-CED
22	K	605	CLA	CBD-CGD-O2D-CED
22	L	406	CLA	CBD-CGD-O2D-CED
22	N	602	CLA	CBD-CGD-O2D-CED
22	N	607	CLA	CBD-CGD-O2D-CED
22	N	610	CLA	CBD-CGD-O2D-CED
22	Q	606	CLA	CBD-CGD-O2D-CED
22	R	601	CLA	CBD-CGD-O2D-CED
22	R	602	CLA	CBD-CGD-O2D-CED
22	R	604	CLA	CBD-CGD-O2D-CED
22	R	608	CLA	CBD-CGD-O2D-CED
22	R	609	CLA	CBD-CGD-O2D-CED
22	R	610	CLA	CBD-CGD-O2D-CED
22	R	615	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	S	604	CLA	CBD-CGD-O2D-CED
22	S	605	CLA	CBD-CGD-O2D-CED
22	U	401	CLA	CBD-CGD-O2D-CED
22	U	404	CLA	CBD-CGD-O2D-CED
22	U	410	CLA	CBD-CGD-O2D-CED
22	V	610	CLA	CBD-CGD-O2D-CED
22	V	613	CLA	CBD-CGD-O2D-CED
22	V	617	CLA	CBD-CGD-O2D-CED
22	W	410	CLA	CBD-CGD-O2D-CED
22	W	411	CLA	CBD-CGD-O2D-CED
22	A	801	CLA	CBD-CGD-O2D-CED
22	A	817	CLA	CBD-CGD-O2D-CED
22	A	824	CLA	CBD-CGD-O2D-CED
22	A	852	CLA	CBD-CGD-O2D-CED
22	B	808	CLA	O1A-CGA-O2A-C1
22	X	405	CLA	O1A-CGA-O2A-C1
22	A	817	CLA	O1A-CGA-O2A-C1
22	A	824	CLA	O1A-CGA-O2A-C1
26	K	616	LHG	O10-C23-O8-C6
28	H	322	LMG	O10-C28-O8-C9
22	B	821	CLA	O1D-CGD-O2D-CED
22	R	615	CLA	O1D-CGD-O2D-CED
22	U	420	CLA	O1D-CGD-O2D-CED
22	V	601	CLA	O1D-CGD-O2D-CED
27	O	322	LMU	O5B-C1B-O1B-C4'
22	I	609	CLA	O1D-CGD-O2D-CED
22	L	409	CLA	O1D-CGD-O2D-CED
22	R	610	CLA	O1D-CGD-O2D-CED
22	U	413	CLA	O1D-CGD-O2D-CED
22	V	602	CLA	O1D-CGD-O2D-CED
22	V	604	CLA	O1D-CGD-O2D-CED
22	V	607	CLA	O1D-CGD-O2D-CED
22	V	609	CLA	O1D-CGD-O2D-CED
22	W	414	CLA	O1D-CGD-O2D-CED
22	X	409	CLA	O1D-CGD-O2D-CED
22	A	801	CLA	O1D-CGD-O2D-CED
22	X	402	CLA	CBA-CGA-O2A-C1
22	X	405	CLA	CBA-CGA-O2A-C1
26	K	616	LHG	C24-C23-O8-C6
22	B	805	CLA	CBD-CGD-O2D-CED
22	B	822	CLA	CBD-CGD-O2D-CED
22	G	607	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	H	304	CLA	CBD-CGD-O2D-CED
22	H	318	CLA	CBD-CGD-O2D-CED
22	L	407	CLA	CBD-CGD-O2D-CED
22	L	411	CLA	CBD-CGD-O2D-CED
22	N	606	CLA	CBD-CGD-O2D-CED
22	O	308	CLA	CBD-CGD-O2D-CED
22	P	606	CLA	CBD-CGD-O2D-CED
22	Q	604	CLA	CBD-CGD-O2D-CED
22	Q	609	CLA	CBD-CGD-O2D-CED
22	Q	611	CLA	CBD-CGD-O2D-CED
22	Q	618	CLA	CBD-CGD-O2D-CED
22	S	607	CLA	CBD-CGD-O2D-CED
22	T	604	CLA	CBD-CGD-O2D-CED
22	T	606	CLA	CBD-CGD-O2D-CED
22	T	608	CLA	CBD-CGD-O2D-CED
22	U	403	CLA	CBD-CGD-O2D-CED
22	U	411	CLA	CBD-CGD-O2D-CED
22	U	414	CLA	CBD-CGD-O2D-CED
22	W	415	CLA	CBD-CGD-O2D-CED
22	X	405	CLA	CBD-CGD-O2D-CED
22	A	811	CLA	CBD-CGD-O2D-CED
22	A	812	CLA	CBD-CGD-O2D-CED
22	B	817	CLA	O1A-CGA-O2A-C1
22	B	819	CLA	O1A-CGA-O2A-C1
22	O	308	CLA	O1A-CGA-O2A-C1
22	S	605	CLA	O1A-CGA-O2A-C1
22	S	609	CLA	O1A-CGA-O2A-C1
22	T	603	CLA	O1A-CGA-O2A-C1
22	A	805	CLA	O1A-CGA-O2A-C1
26	T	614	LHG	O10-C23-O8-C6
28	N	615	LMG	O10-C28-O8-C9
22	R	607	CLA	O1D-CGD-O2D-CED
22	B	818	CLA	O1D-CGD-O2D-CED
22	N	611	CLA	O1D-CGD-O2D-CED
22	X	419	CLA	O1D-CGD-O2D-CED
22	G	611	CLA	CBD-CGD-O2D-CED
22	O	311	CLA	CBD-CGD-O2D-CED
22	P	610	CLA	CBD-CGD-O2D-CED
22	Q	603	CLA	CBD-CGD-O2D-CED
22	U	404	CLA	O1D-CGD-O2D-CED
22	V	613	CLA	O1D-CGD-O2D-CED
26	O	324	LHG	O9-C7-O7-C5

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Mol	Chain	Res	Type	Atoms
26	P	601	LHG	O9-C7-O7-C5
26	U	419	LHG	O9-C7-O7-C5
26	A	846	LHG	O9-C7-O7-C5
28	I	615	LMG	O9-C10-O7-C8
28	N	615	LMG	O9-C10-O7-C8
28	W	401	LMG	O9-C10-O7-C8
22	B	813	CLA	C3-C5-C6-C7
22	B	818	CLA	C3-C5-C6-C7
22	B	819	CLA	C3-C5-C6-C7
22	B	833	CLA	C3-C5-C6-C7
22	G	603	CLA	C3-C5-C6-C7
22	I	603	CLA	C3-C5-C6-C7
22	I	606	CLA	C3-C5-C6-C7
22	K	605	CLA	C3-C5-C6-C7
22	K	611	CLA	C3-C5-C6-C7
22	L	404	CLA	C3-C5-C6-C7
22	L	411	CLA	C3-C5-C6-C7
22	R	601	CLA	C3-C5-C6-C7
22	S	602	CLA	C3-C5-C6-C7
22	S	604	CLA	C3-C5-C6-C7
22	V	604	CLA	C3-C5-C6-C7
22	A	814	CLA	C3-C5-C6-C7
22	B	808	CLA	CBA-CGA-O2A-C1
22	B	817	CLA	CBA-CGA-O2A-C1
22	B	819	CLA	CBA-CGA-O2A-C1
22	K	610	CLA	CBA-CGA-O2A-C1
22	O	308	CLA	CBA-CGA-O2A-C1
22	S	605	CLA	CBA-CGA-O2A-C1
22	T	603	CLA	CBA-CGA-O2A-C1
22	V	603	CLA	CBA-CGA-O2A-C1
22	A	805	CLA	CBA-CGA-O2A-C1
22	A	817	CLA	CBA-CGA-O2A-C1
22	A	821	CLA	CBA-CGA-O2A-C1
22	A	824	CLA	CBA-CGA-O2A-C1
28	N	615	LMG	C29-C28-O8-C9
26	N	616	LHG	C8-C7-O7-C5
26	O	324	LHG	C8-C7-O7-C5
28	F	408	LMG	C11-C10-O7-C8
22	F	405	CLA	O1D-CGD-O2D-CED
22	K	605	CLA	O1D-CGD-O2D-CED
22	W	411	CLA	O1D-CGD-O2D-CED
22	L	404	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	W	409	CLA	CBD-CGD-O2D-CED
22	A	838	CLA	C3-C5-C6-C7
22	B	834	CLA	C4-C3-C5-C6
22	A	811	CLA	C4-C3-C5-C6
22	A	814	CLA	C4-C3-C5-C6
22	B	834	CLA	C2-C3-C5-C6
22	S	605	CLA	C2-C3-C5-C6
22	U	411	CLA	C2-C3-C5-C6
22	B	827	CLA	CBD-CGD-O2D-CED
22	G	608	CLA	CBD-CGD-O2D-CED
22	U	409	CLA	CBD-CGD-O2D-CED
22	B	817	CLA	C2A-CAA-CBA-CGA
22	J	102	CLA	C2A-CAA-CBA-CGA
22	P	604	CLA	C2A-CAA-CBA-CGA
22	T	605	CLA	C2A-CAA-CBA-CGA
22	U	409	CLA	C2A-CAA-CBA-CGA
22	W	419	CLA	C2A-CAA-CBA-CGA
22	X	402	CLA	C2A-CAA-CBA-CGA
22	X	417	CLA	C2A-CAA-CBA-CGA
22	A	818	CLA	C2A-CAA-CBA-CGA
22	A	821	CLA	C2A-CAA-CBA-CGA
22	W	410	CLA	O1D-CGD-O2D-CED
26	B	851	LHG	C24-C25-C26-C27
26	G	614	LHG	C24-C25-C26-C27
26	K	616	LHG	C24-C25-C26-C27
26	O	318	LHG	C24-C25-C26-C27
26	O	321	LHG	C24-C25-C26-C27
26	S	613	LHG	C24-C25-C26-C27
26	T	614	LHG	C24-C25-C26-C27
26	U	419	LHG	C24-C25-C26-C27
26	W	420	LHG	C24-C25-C26-C27
26	X	420	LHG	C24-C25-C26-C27
26	A	845	LHG	C24-C25-C26-C27
26	A	846	LHG	C24-C25-C26-C27
22	Q	605	CLA	C3-C5-C6-C7
33	A	802	CL0	C3-C5-C6-C7
22	B	830	CLA	CBA-CGA-O2A-C1
22	L	404	CLA	CBA-CGA-O2A-C1
22	R	615	CLA	CBA-CGA-O2A-C1
22	S	609	CLA	CBA-CGA-O2A-C1
25	F	401	DGD	C2A-C1A-O1G-C1G
26	T	614	LHG	C24-C23-O8-C6

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Mol	Chain	Res	Type	Atoms
28	H	322	LMG	C29-C28-O8-C9
25	B	847	DGD	O6E-C5E-C6E-O5E
22	B	802	CLA	O1D-CGD-O2D-CED
22	G	610	CLA	O1D-CGD-O2D-CED
22	I	601	CLA	O1D-CGD-O2D-CED
22	N	602	CLA	O1D-CGD-O2D-CED
22	A	842	CLA	CBD-CGD-O2D-CED
22	B	826	CLA	O1D-CGD-O2D-CED
22	H	307	CLA	O1D-CGD-O2D-CED
22	H	311	CLA	O1D-CGD-O2D-CED
22	Q	606	CLA	O1D-CGD-O2D-CED
22	S	605	CLA	O1D-CGD-O2D-CED
22	V	610	CLA	O1D-CGD-O2D-CED
22	V	617	CLA	O1D-CGD-O2D-CED
22	B	830	CLA	O1A-CGA-O2A-C1
22	K	610	CLA	O1A-CGA-O2A-C1
22	L	404	CLA	O1A-CGA-O2A-C1
22	R	601	CLA	O1A-CGA-O2A-C1
22	R	608	CLA	O1A-CGA-O2A-C1
22	V	603	CLA	O1A-CGA-O2A-C1
26	B	848	LHG	O10-C23-O8-C6
28	H	317	LMG	O10-C28-O8-C9
28	K	618	LMG	O10-C28-O8-C9
28	U	402	LMG	O10-C28-O8-C9
27	J	104	LMU	C4B-C5B-C6B-O6B
22	B	829	CLA	CBD-CGD-O2D-CED
22	N	604	CLA	CBD-CGD-O2D-CED
22	P	608	CLA	CBD-CGD-O2D-CED
22	Q	612	CLA	CBD-CGD-O2D-CED
22	W	404	CLA	CBD-CGD-O2D-CED
22	A	823	CLA	CBD-CGD-O2D-CED
22	A	830	CLA	CBD-CGD-O2D-CED
22	L	406	CLA	O1D-CGD-O2D-CED
22	N	607	CLA	O1D-CGD-O2D-CED
22	U	401	CLA	O1D-CGD-O2D-CED
22	A	824	CLA	O1D-CGD-O2D-CED
26	N	616	LHG	O2-C2-C3-O3
26	O	321	LHG	O2-C2-C3-O3
26	X	420	LHG	O2-C2-C3-O3
22	F	403	CLA	C3-C5-C6-C7
22	G	608	CLA	C3-C5-C6-C7
22	H	303	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
22	H	311	CLA	C3-C5-C6-C7
22	L	403	CLA	C3-C5-C6-C7
22	Q	611	CLA	C3-C5-C6-C7
22	U	401	CLA	C3-C5-C6-C7
22	X	410	CLA	C3-C5-C6-C7
22	R	601	CLA	CBA-CGA-O2A-C1
22	R	608	CLA	CBA-CGA-O2A-C1
26	B	848	LHG	C24-C23-O8-C6
28	H	317	LMG	C29-C28-O8-C9
28	K	618	LMG	C29-C28-O8-C9
22	A	821	CLA	O1A-CGA-O2A-C1
25	O	304	DGD	O6E-C5E-C6E-O5E
22	I	607	CLA	O1D-CGD-O2D-CED
22	R	602	CLA	O1D-CGD-O2D-CED
25	F	401	DGD	C2B-C1B-O2G-C2G
28	B	856	LMG	C11-C10-O7-C8
28	I	615	LMG	C11-C10-O7-C8
22	R	604	CLA	O1D-CGD-O2D-CED
22	H	309	CLA	CBD-CGD-O2D-CED
22	U	406	CLA	CBD-CGD-O2D-CED
22	V	603	CLA	CBD-CGD-O2D-CED
22	X	410	CLA	CBD-CGD-O2D-CED
22	A	819	CLA	CBD-CGD-O2D-CED
28	H	317	LMG	O6-C5-C6-O5
28	J	101	LMG	O6-C5-C6-O5
28	N	615	LMG	O6-C5-C6-O5
25	B	847	DGD	C4E-C5E-C6E-O5E
26	P	601	LHG	C15-C16-C17-C18
26	Q	616	LHG	C25-C26-C27-C28
22	N	610	CLA	O1D-CGD-O2D-CED
25	O	304	DGD	C4B-C5B-C6B-C7B
27	B	857	LMU	O5'-C5'-C6'-O6'
22	B	813	CLA	O1D-CGD-O2D-CED
22	F	403	CLA	O1D-CGD-O2D-CED
22	S	604	CLA	O1D-CGD-O2D-CED
22	U	410	CLA	O1D-CGD-O2D-CED
22	A	817	CLA	O1D-CGD-O2D-CED
22	A	852	CLA	O1D-CGD-O2D-CED
22	B	820	CLA	C3-C5-C6-C7
22	X	412	CLA	C3-C5-C6-C7
28	A	855	LMG	O6-C5-C6-O5
26	B	851	LHG	C5-C4-O6-P

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Mol	Chain	Res	Type	Atoms
22	R	615	CLA	O1A-CGA-O2A-C1
25	F	401	DGD	O1A-C1A-O1G-C1G
25	O	304	DGD	C5A-C6A-C7A-C8A
22	G	608	CLA	C4-C3-C5-C6
22	R	601	CLA	C4-C3-C5-C6
22	T	605	CLA	C4-C3-C5-C6
22	A	838	CLA	C4-C3-C5-C6
25	O	304	DGD	C4E-C5E-C6E-O5E
22	G	608	CLA	C2-C3-C5-C6
22	R	601	CLA	C2-C3-C5-C6
22	T	605	CLA	C2-C3-C5-C6
22	A	814	CLA	C2-C3-C5-C6
22	N	607	CLA	C2A-CAA-CBA-CGA
28	U	402	LMG	C4-C5-C6-O5
22	A	813	CLA	CBA-CGA-O2A-C1
22	A	835	CLA	CBA-CGA-O2A-C1
28	U	402	LMG	C29-C28-O8-C9
25	B	847	DGD	C8B-C9B-CAB-CBB
22	R	605	CLA	CBD-CGD-O2D-CED
22	L	407	CLA	O1D-CGD-O2D-CED
22	U	414	CLA	O1D-CGD-O2D-CED
22	A	812	CLA	O1D-CGD-O2D-CED
25	O	304	DGD	C4D-C5D-C6D-O5D
22	N	606	CLA	O1D-CGD-O2D-CED
22	Q	611	CLA	O1D-CGD-O2D-CED
22	T	606	CLA	O1D-CGD-O2D-CED
22	U	411	CLA	O1D-CGD-O2D-CED
22	W	415	CLA	O1D-CGD-O2D-CED
22	G	601	CLA	CBD-CGD-O2D-CED
22	O	310	CLA	CBD-CGD-O2D-CED
22	H	304	CLA	O1D-CGD-O2D-CED
26	B	848	LHG	C1-C2-C3-O3
26	B	851	LHG	C1-C2-C3-O3
26	L	416	LHG	C1-C2-C3-O3
26	O	323	LHG	C1-C2-C3-O3
25	F	401	DGD	CEA-CFA-CGA-CHA
26	O	323	LHG	C25-C26-C27-C28
22	L	402	CLA	C3-C5-C6-C7
22	S	609	CLA	C3-C5-C6-C7
22	P	606	CLA	O1D-CGD-O2D-CED
22	H	306	CLA	CBA-CGA-O2A-C1
22	J	102	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	K	602	CLA	CBA-CGA-O2A-C1
22	K	605	CLA	CBA-CGA-O2A-C1
22	N	610	CLA	CBA-CGA-O2A-C1
22	O	312	CLA	CBA-CGA-O2A-C1
22	Q	617	CLA	CBA-CGA-O2A-C1
22	U	406	CLA	CBA-CGA-O2A-C1
22	W	403	CLA	CBA-CGA-O2A-C1
22	A	812	CLA	CBA-CGA-O2A-C1
22	A	825	CLA	CBA-CGA-O2A-C1
26	N	614	LHG	C24-C23-O8-C6
26	P	601	LHG	C24-C23-O8-C6
26	U	419	LHG	C24-C23-O8-C6
22	T	601	CLA	CBD-CGD-O2D-CED
27	J	104	LMU	C4'-C5'-C6'-O6'
28	J	101	LMG	C4-C5-C6-O5
24	F	406	DD6	C11-C10-C9-C8
24	P	612	DD6	C24-C25-C26-C27
22	A	833	CLA	C13-C15-C16-C17
22	A	842	CLA	C15-C16-C17-C18
26	W	420	LHG	C10-C11-C12-C13
25	O	304	DGD	O6D-C5D-C6D-O5D
22	K	608	CLA	C5-C6-C7-C8
22	V	612	CLA	C5-C6-C7-C8
22	X	403	CLA	C10-C11-C12-C13
22	X	409	CLA	C13-C15-C16-C17
22	A	815	CLA	C10-C11-C12-C13
22	A	825	CLA	C8-C10-C11-C12
22	A	840	CLA	C5-C6-C7-C8
31	W	408	CHL	C10-C11-C12-C13
26	O	324	LHG	O2-C2-C3-O3
26	R	614	LHG	O2-C2-C3-O3
22	B	812	CLA	C3-C5-C6-C7
22	H	307	CLA	C3-C5-C6-C7
25	B	847	DGD	C2D-C1D-O3G-C3G
28	B	856	LMG	C2-C1-O1-C7
28	K	601	LMG	C2-C1-O1-C7
28	K	618	LMG	C2-C1-O1-C7
28	N	615	LMG	C2-C1-O1-C7
26	B	851	LHG	O7-C5-C6-O8
22	W	403	CLA	O1A-CGA-O2A-C1
22	A	825	CLA	O1A-CGA-O2A-C1
22	A	835	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	A	811	CLA	C2-C3-C5-C6
22	B	806	CLA	C14-C13-C15-C16
22	B	807	CLA	C14-C13-C15-C16
22	B	821	CLA	C11-C10-C8-C9
22	B	834	CLA	C14-C13-C15-C16
22	G	606	CLA	C11-C10-C8-C9
22	H	305	CLA	C6-C7-C8-C9
22	H	313	CLA	C11-C10-C8-C9
22	I	601	CLA	C6-C7-C8-C9
22	I	606	CLA	C11-C10-C8-C9
22	K	604	CLA	C11-C10-C8-C9
22	K	604	CLA	C11-C12-C13-C14
22	K	609	CLA	C6-C7-C8-C9
22	L	411	CLA	C14-C13-C15-C16
22	N	606	CLA	C11-C10-C8-C9
22	Q	609	CLA	C6-C7-C8-C9
22	Q	612	CLA	C14-C13-C15-C16
22	R	606	CLA	C6-C7-C8-C9
22	R	607	CLA	C6-C7-C8-C9
22	R	610	CLA	C14-C13-C15-C16
22	S	605	CLA	C11-C10-C8-C9
22	T	603	CLA	C11-C10-C8-C9
22	T	604	CLA	C11-C12-C13-C14
22	T	605	CLA	C6-C7-C8-C9
22	T	607	CLA	C11-C10-C8-C9
22	X	404	CLA	C11-C10-C8-C9
22	A	807	CLA	C14-C13-C15-C16
22	A	808	CLA	C14-C13-C15-C16
22	A	816	CLA	C6-C7-C8-C9
22	A	817	CLA	C14-C13-C15-C16
22	A	825	CLA	C11-C12-C13-C14
22	A	836	CLA	C11-C12-C13-C14
22	A	840	CLA	C11-C12-C13-C14
22	A	841	CLA	C11-C12-C13-C14
22	A	842	CLA	C14-C13-C15-C16
22	B	822	CLA	O1D-CGD-O2D-CED
22	H	318	CLA	O1D-CGD-O2D-CED
22	L	411	CLA	O1D-CGD-O2D-CED
22	T	604	CLA	O1D-CGD-O2D-CED
22	U	403	CLA	O1D-CGD-O2D-CED
22	K	608	CLA	CBD-CGD-O2D-CED
22	T	607	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	K	609	CLA	C10-C11-C12-C13
22	A	810	CLA	C2A-CAA-CBA-CGA
21	B	801	BCR	C11-C12-C13-C35
21	A	850	BCR	C21-C22-C23-C24
25	F	401	DGD	O1B-C1B-O2G-C2G
25	O	304	DGD	C2B-C1B-O2G-C2G
22	K	602	CLA	O1A-CGA-O2A-C1
22	N	610	CLA	O1A-CGA-O2A-C1
26	P	601	LHG	O10-C23-O8-C6
22	B	818	CLA	C15-C16-C17-C18
22	B	834	CLA	C8-C10-C11-C12
22	K	604	CLA	C8-C10-C11-C12
22	A	813	CLA	C13-C15-C16-C17
22	A	830	CLA	C13-C15-C16-C17
22	A	842	CLA	C13-C15-C16-C17
22	Q	609	CLA	O1D-CGD-O2D-CED
22	Q	618	CLA	O1D-CGD-O2D-CED
22	A	811	CLA	O1D-CGD-O2D-CED
22	A	835	CLA	CBD-CGD-O2D-CED
22	P	611	CLA	C2C-C3C-CAC-CBC
22	G	607	CLA	O1D-CGD-O2D-CED
22	B	806	CLA	C3-C5-C6-C7
22	V	603	CLA	C3-C5-C6-C7
22	W	404	CLA	C3-C5-C6-C7
22	L	407	CLA	C8-C10-C11-C12
22	R	607	CLA	CBA-CGA-O2A-C1
22	S	607	CLA	CBA-CGA-O2A-C1
22	B	839	CLA	C13-C15-C16-C17
22	Q	609	CLA	C5-C6-C7-C8
22	R	601	CLA	C8-C10-C11-C12
22	S	604	CLA	C8-C10-C11-C12
22	T	611	CLA	C5-C6-C7-C8
22	A	807	CLA	C8-C10-C11-C12
22	A	824	CLA	C10-C11-C12-C13
22	A	841	CLA	C13-C15-C16-C17
26	P	601	LHG	C25-C26-C27-C28
26	B	851	LHG	C23-C24-C25-C26
26	G	614	LHG	C23-C24-C25-C26
22	Q	604	CLA	O1D-CGD-O2D-CED
22	T	608	CLA	O1D-CGD-O2D-CED
28	N	615	LMG	C4-C5-C6-O5
22	W	413	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
28	T	616	LMG	O6-C5-C6-O5
22	B	806	CLA	C13-C15-C16-C17
22	B	818	CLA	C8-C10-C11-C12
22	B	822	CLA	C5-C6-C7-C8
22	B	824	CLA	C8-C10-C11-C12
22	K	604	CLA	C5-C6-C7-C8
22	L	402	CLA	C10-C11-C12-C13
22	Q	604	CLA	C15-C16-C17-C18
22	R	610	CLA	C8-C10-C11-C12
22	U	404	CLA	C5-C6-C7-C8
22	A	805	CLA	C8-C10-C11-C12
22	A	824	CLA	C8-C10-C11-C12
22	B	805	CLA	O1D-CGD-O2D-CED
26	X	420	LHG	O1-C1-C2-O2
26	O	321	LHG	C7-C8-C9-C10
28	F	408	LMG	C28-C29-C30-C31
28	H	317	LMG	C28-C29-C30-C31
28	H	322	LMG	C10-C11-C12-C13
28	I	615	LMG	C28-C29-C30-C31
27	J	104	LMU	O5B-C5B-C6B-O6B
27	B	857	LMU	C4'-C5'-C6'-O6'
22	L	410	CLA	CBD-CGD-O2D-CED
22	Q	601	CLA	CBD-CGD-O2D-CED
22	B	823	CLA	C5-C6-C7-C8
22	B	835	CLA	C5-C6-C7-C8
22	H	308	CLA	C5-C6-C7-C8
22	L	417	CLA	C5-C6-C7-C8
22	R	610	CLA	C10-C11-C12-C13
22	A	824	CLA	C13-C15-C16-C17
22	B	826	CLA	CBA-CGA-O2A-C1
22	K	617	CLA	CBA-CGA-O2A-C1
26	B	851	LHG	C26-C27-C28-C29
26	N	616	LHG	C12-C13-C14-C15
26	O	318	LHG	C10-C11-C12-C13
26	O	321	LHG	C34-C35-C36-C37
27	U	422	LMU	O5'-C5'-C6'-O6'
22	B	835	CLA	C10-C11-C12-C13
22	K	611	CLA	C8-C10-C11-C12
22	L	417	CLA	C10-C11-C12-C13
22	O	310	CLA	C5-C6-C7-C8
22	R	607	CLA	C8-C10-C11-C12
22	V	612	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
22	A	815	CLA	C15-C16-C17-C18
22	X	405	CLA	O1D-CGD-O2D-CED
22	K	612	CLA	CBD-CGD-O2D-CED
22	P	609	CLA	CBD-CGD-O2D-CED
26	O	321	LHG	C32-C33-C34-C35
26	O	321	LHG	C8-C7-O7-C5
28	Q	602	LMG	C11-C10-O7-C8
25	B	847	DGD	C2A-C3A-C4A-C5A
22	X	412	CLA	C8-C10-C11-C12
22	B	807	CLA	C6-C7-C8-C10
22	B	812	CLA	C12-C13-C15-C16
22	H	311	CLA	C6-C7-C8-C10
22	K	604	CLA	C11-C12-C13-C15
22	K	608	CLA	C11-C12-C13-C15
22	O	308	CLA	C11-C12-C13-C15
22	Q	604	CLA	C11-C10-C8-C7
22	R	615	CLA	C12-C13-C15-C16
22	A	801	CLA	C11-C10-C8-C7
22	A	806	CLA	C11-C12-C13-C15
22	A	808	CLA	C11-C12-C13-C15
22	A	813	CLA	C11-C10-C8-C7
22	A	824	CLA	C6-C7-C8-C10
22	A	828	CLA	C6-C7-C8-C10
22	Q	610	CLA	C3-C5-C6-C7
22	K	605	CLA	O1A-CGA-O2A-C1
26	N	614	LHG	O10-C23-O8-C6
22	B	814	CLA	C2A-CAA-CBA-CGA
22	W	415	CLA	C2A-CAA-CBA-CGA
22	O	308	CLA	O1D-CGD-O2D-CED
22	S	607	CLA	O1D-CGD-O2D-CED
22	B	812	CLA	C8-C10-C11-C12
22	B	824	CLA	C10-C11-C12-C13
22	R	607	CLA	C5-C6-C7-C8
22	T	605	CLA	C15-C16-C17-C18
22	A	814	CLA	C13-C15-C16-C17
22	A	841	CLA	C15-C16-C17-C18
27	X	421	LMU	O1'-C1-C2-C3
22	H	306	CLA	O1A-CGA-O2A-C1
22	J	102	CLA	O1A-CGA-O2A-C1
22	O	312	CLA	O1A-CGA-O2A-C1
22	Q	617	CLA	O1A-CGA-O2A-C1
22	U	406	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	A	813	CLA	O1A-CGA-O2A-C1
26	U	419	LHG	O10-C23-O8-C6
22	B	812	CLA	C10-C11-C12-C13
22	K	602	CLA	C5-C6-C7-C8
22	Q	603	CLA	O1D-CGD-O2D-CED
26	R	614	LHG	C25-C26-C27-C28
30	V	618	SQD	O6-C44-C45-O47
22	P	610	CLA	O1D-CGD-O2D-CED
26	K	619	LHG	O2-C2-C3-O3
26	L	416	LHG	O2-C2-C3-O3
26	T	614	LHG	O2-C2-C3-O3
25	O	304	DGD	O1B-C1B-O2G-C2G
22	B	807	CLA	C10-C11-C12-C13
22	R	605	CLA	C15-C16-C17-C18
22	X	410	CLA	C10-C11-C12-C13
22	O	311	CLA	CBA-CGA-O2A-C1
22	N	608	CLA	CBD-CGD-O2D-CED
22	P	604	CLA	CBD-CGD-O2D-CED
22	G	611	CLA	O1D-CGD-O2D-CED
22	O	311	CLA	O1D-CGD-O2D-CED
22	R	607	CLA	O1A-CGA-O2A-C1
22	A	812	CLA	O1A-CGA-O2A-C1
28	B	852	LMG	C28-C29-C30-C31
28	U	402	LMG	C10-C11-C12-C13
22	B	807	CLA	C5-C6-C7-C8
22	B	810	CLA	C5-C6-C7-C8
22	B	812	CLA	C5-C6-C7-C8
22	H	305	CLA	C5-C6-C7-C8
22	N	603	CLA	C15-C16-C17-C18
22	A	829	CLA	C13-C15-C16-C17
22	L	404	CLA	O1D-CGD-O2D-CED
22	W	409	CLA	O1D-CGD-O2D-CED
28	H	317	LMG	C4-C5-C6-O5
28	L	401	LMG	C4-C5-C6-O5
22	K	617	CLA	O1A-CGA-O2A-C1
26	W	420	LHG	C8-C7-O7-C5
28	H	319	LMG	C11-C10-O7-C8
27	J	104	LMU	O1'-C1-C2-C3
22	B	813	CLA	C10-C11-C12-C13
22	B	833	CLA	C13-C15-C16-C17
22	K	604	CLA	C13-C15-C16-C17
22	T	607	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
22	V	604	CLA	C5-C6-C7-C8
22	A	816	CLA	C10-C11-C12-C13
26	B	851	LHG	C3-O3-P-O6
26	N	616	LHG	C3-O3-P-O6
26	O	323	LHG	C3-O3-P-O6
26	O	324	LHG	C3-O3-P-O6
26	O	324	LHG	C4-O6-P-O3
26	R	614	LHG	C3-O3-P-O6
26	S	613	LHG	C3-O3-P-O6
26	S	613	LHG	C4-O6-P-O3
26	T	614	LHG	C4-O6-P-O3
26	W	420	LHG	C3-O3-P-O6
26	W	420	LHG	C4-O6-P-O3
26	A	845	LHG	C3-O3-P-O6
28	K	618	LMG	C28-C29-C30-C31
22	G	608	CLA	CBA-CGA-O2A-C1
22	X	408	CLA	CBA-CGA-O2A-C1
26	O	318	LHG	C24-C23-O8-C6
26	N	616	LHG	C1-C2-C3-O3
26	T	614	LHG	C1-C2-C3-O3
26	O	321	LHG	O9-C7-O7-C5
26	W	420	LHG	O9-C7-O7-C5
26	T	614	LHG	C30-C31-C32-C33
22	T	602	CLA	C15-C16-C17-C18
22	A	804	CLA	C10-C11-C12-C13
26	S	613	LHG	C11-C10-C9-C8
22	B	806	CLA	C2A-CAA-CBA-CGA
22	B	808	CLA	C2A-CAA-CBA-CGA
22	X	405	CLA	C2A-CAA-CBA-CGA
22	A	805	CLA	C2A-CAA-CBA-CGA
22	A	824	CLA	C2A-CAA-CBA-CGA
22	B	812	CLA	C16-C17-C18-C20
22	L	402	CLA	C16-C17-C18-C20
22	B	810	CLA	CBA-CGA-O2A-C1
22	R	602	CLA	CBA-CGA-O2A-C1
28	U	423	LMG	C28-C29-C30-C31
22	G	608	CLA	O1D-CGD-O2D-CED
26	O	324	LHG	C31-C32-C33-C34
26	W	420	LHG	C11-C10-C9-C8
22	W	403	CLA	CBD-CGD-O2D-CED
22	A	803	CLA	CBD-CGD-O2D-CED
27	J	104	LMU	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
22	B	804	CLA	C3-C5-C6-C7
25	B	847	DGD	C5B-C6B-C7B-C8B
25	F	401	DGD	C7A-C8A-C9A-CAA
25	O	304	DGD	C5B-C6B-C7B-C8B
26	K	616	LHG	C26-C27-C28-C29
26	L	416	LHG	C16-C17-C18-C19
26	N	616	LHG	C13-C14-C15-C16
26	O	321	LHG	C27-C28-C29-C30
26	W	420	LHG	C30-C31-C32-C33
27	U	421	LMU	C11-C10-C9-C8
28	B	852	LMG	C13-C14-C15-C16
28	K	601	LMG	C14-C15-C16-C17
28	U	423	LMG	C17-C18-C19-C20
22	B	827	CLA	O1D-CGD-O2D-CED
22	Q	611	CLA	C6-C7-C8-C9
22	X	410	CLA	C11-C12-C13-C15
22	A	806	CLA	C16-C17-C18-C20
22	A	821	CLA	C16-C17-C18-C19
26	A	846	LHG	C24-C23-O8-C6
26	L	416	LHG	C17-C18-C19-C20
26	O	318	LHG	C12-C13-C14-C15
26	O	323	LHG	C26-C27-C28-C29
26	A	845	LHG	C31-C32-C33-C34
27	B	855	LMU	C4-C5-C6-C7
28	B	856	LMG	C32-C33-C34-C35
28	B	856	LMG	C41-C42-C43-C44
28	G	616	LMG	C34-C35-C36-C37
28	L	401	LMG	C31-C32-C33-C34
28	U	402	LMG	C31-C32-C33-C34
26	U	419	LHG	C6-C5-O7-C7
28	I	615	LMG	C7-C8-O7-C10
28	W	401	LMG	C7-C8-O7-C10
22	U	409	CLA	O1D-CGD-O2D-CED
22	A	842	CLA	O1D-CGD-O2D-CED
28	U	402	LMG	O6-C5-C6-O5
22	X	404	CLA	C8-C10-C11-C12
25	B	847	DGD	CCA-CDA-CEA-CFA
26	O	321	LHG	C11-C10-C9-C8
26	Q	616	LHG	C15-C16-C17-C18
26	A	845	LHG	C11-C10-C9-C8
28	H	322	LMG	C30-C31-C32-C33
28	K	601	LMG	C30-C31-C32-C33

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Mol	Chain	Res	Type	Atoms
26	O	324	LHG	C2-C3-O3-P
27	A	857	LMU	O5'-C5'-C6'-O6'
25	B	847	DGD	C7B-C8B-C9B-CAB
26	P	601	LHG	C14-C15-C16-C17
27	J	104	LMU	C2-C3-C4-C5
28	B	856	LMG	C19-C20-C21-C22
28	F	408	LMG	C30-C31-C32-C33
28	I	614	LMG	C32-C33-C34-C35
28	I	615	LMG	C33-C34-C35-C36
26	A	846	LHG	O2-C2-C3-O3
26	G	614	LHG	C9-C10-C11-C12
26	W	420	LHG	C25-C26-C27-C28
28	I	615	LMG	C16-C17-C18-C19
28	T	616	LMG	C34-C35-C36-C37
22	L	417	CLA	C3-C5-C6-C7
22	R	602	CLA	C3-C5-C6-C7
26	K	616	LHG	C23-C24-C25-C26
22	A	823	CLA	O1D-CGD-O2D-CED
22	H	311	CLA	CBA-CGA-O2A-C1
26	G	614	LHG	C24-C23-O8-C6
26	O	318	LHG	C25-C26-C27-C28
26	A	846	LHG	C32-C33-C34-C35
27	F	409	LMU	C5-C6-C7-C8
28	I	615	LMG	C30-C31-C32-C33
28	J	101	LMG	C11-C12-C13-C14
28	J	101	LMG	C13-C14-C15-C16
28	K	601	LMG	C31-C32-C33-C34
28	L	401	LMG	C22-C23-C24-C25
22	A	840	CLA	C10-C11-C12-C13
22	B	826	CLA	O1A-CGA-O2A-C1
22	S	607	CLA	O1A-CGA-O2A-C1
22	H	303	CLA	C11-C12-C13-C15
22	N	610	CLA	C6-C7-C8-C9
22	Q	611	CLA	C6-C7-C8-C10
22	T	602	CLA	C16-C17-C18-C19
22	X	410	CLA	C11-C12-C13-C14
22	A	808	CLA	C16-C17-C18-C19
22	A	824	CLA	C16-C17-C18-C20
22	A	826	CLA	C16-C17-C18-C20
22	A	852	CLA	C16-C17-C18-C20
22	A	830	CLA	C4-C3-C5-C6
25	B	847	DGD	C9A-CAA-CBA-CCA

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Mol	Chain	Res	Type	Atoms
26	R	614	LHG	C15-C16-C17-C18
26	X	420	LHG	C28-C29-C30-C31
28	G	616	LMG	C41-C42-C43-C44
28	W	401	LMG	C13-C14-C15-C16
22	B	823	CLA	C14-C13-C15-C16
22	B	826	CLA	C6-C7-C8-C9
22	K	617	CLA	C11-C10-C8-C9
22	Q	604	CLA	C14-C13-C15-C16
22	V	603	CLA	C6-C7-C8-C9
22	W	410	CLA	C11-C10-C8-C9
22	A	806	CLA	C11-C12-C13-C14
22	A	830	CLA	C11-C12-C13-C14
22	N	604	CLA	O1D-CGD-O2D-CED
26	O	323	LHG	C7-C8-C9-C10
28	L	401	LMG	C10-C11-C12-C13
26	O	321	LHG	C14-C15-C16-C17
26	A	845	LHG	C14-C15-C16-C17
28	B	852	LMG	C18-C19-C20-C21
28	I	615	LMG	C18-C19-C20-C21
28	J	101	LMG	C18-C19-C20-C21
28	K	601	LMG	C17-C18-C19-C20
28	U	402	LMG	C30-C31-C32-C33
28	U	402	LMG	C33-C34-C35-C36
28	U	423	LMG	C30-C31-C32-C33
28	W	401	LMG	C38-C39-C40-C41
22	H	307	CLA	C5-C6-C7-C8
22	X	408	CLA	C15-C16-C17-C18
22	U	420	CLA	C2A-CAA-CBA-CGA
22	G	608	CLA	O1A-CGA-O2A-C1
22	O	311	CLA	O1A-CGA-O2A-C1
28	K	618	LMG	C36-C37-C38-C39
28	T	616	LMG	C29-C30-C31-C32
28	T	616	LMG	C32-C33-C34-C35
28	U	402	LMG	C18-C19-C20-C21
26	H	316	LHG	O1-C1-C2-C3
26	N	616	LHG	O1-C1-C2-C3
26	T	614	LHG	O1-C1-C2-C3
26	X	420	LHG	O1-C1-C2-C3
22	B	831	CLA	C3-C5-C6-C7
22	O	308	CLA	C3-C5-C6-C7
22	B	807	CLA	C15-C16-C17-C18
22	B	823	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
22	I	601	CLA	C5-C6-C7-C8
22	T	605	CLA	C5-C6-C7-C8
22	A	819	CLA	C8-C10-C11-C12
26	A	845	LHG	C12-C13-C14-C15
28	L	401	LMG	C17-C18-C19-C20
26	O	324	LHG	C7-C8-C9-C10
26	S	613	LHG	C23-C24-C25-C26
26	U	419	LHG	C23-C24-C25-C26
26	W	420	LHG	C7-C8-C9-C10
28	T	616	LMG	C28-C29-C30-C31
25	B	847	DGD	C6A-C7A-C8A-C9A
25	B	847	DGD	CBA-CCA-CDA-CEA
25	B	847	DGD	CAB-CBB-CCB-CDB
26	B	851	LHG	C15-C16-C17-C18
26	L	416	LHG	C15-C16-C17-C18
26	P	601	LHG	C12-C13-C14-C15
26	Q	616	LHG	C14-C15-C16-C17
27	L	419	LMU	C4-C5-C6-C7
28	H	319	LMG	C31-C32-C33-C34
28	I	615	LMG	C17-C18-C19-C20
28	I	615	LMG	C32-C33-C34-C35
28	J	101	LMG	C17-C18-C19-C20
28	J	101	LMG	C31-C32-C33-C34
28	K	618	LMG	C32-C33-C34-C35
28	K	622	LMG	C34-C35-C36-C37
28	N	615	LMG	C17-C18-C19-C20
28	T	616	LMG	C33-C34-C35-C36
28	U	402	LMG	C15-C16-C17-C18
28	W	401	LMG	C36-C37-C38-C39
22	G	608	CLA	C11-C12-C13-C14
22	L	402	CLA	C16-C17-C18-C19
22	O	312	CLA	C11-C12-C13-C14
22	X	408	CLA	C16-C17-C18-C20
22	A	806	CLA	C16-C17-C18-C19
22	A	824	CLA	C16-C17-C18-C19
22	A	817	CLA	C13-C15-C16-C17
25	O	304	DGD	C2B-C3B-C4B-C5B
26	O	321	LHG	C31-C32-C33-C34
26	R	614	LHG	C11-C10-C9-C8
26	W	420	LHG	C34-C35-C36-C37
26	A	845	LHG	C25-C26-C27-C28
22	P	608	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
25	B	847	DGD	C9B-CAB-CBB-CCB
26	X	420	LHG	C11-C10-C9-C8
26	A	845	LHG	C28-C29-C30-C31
26	A	846	LHG	C15-C16-C17-C18
28	F	408	LMG	C12-C13-C14-C15
28	G	616	LMG	C14-C15-C16-C17
28	I	615	LMG	C31-C32-C33-C34
28	W	401	LMG	C32-C33-C34-C35
22	R	602	CLA	O1A-CGA-O2A-C1
28	H	322	LMG	C29-C30-C31-C32
22	B	829	CLA	O1D-CGD-O2D-CED
22	B	812	CLA	C3A-C2A-CAA-CBA
22	B	825	CLA	C3A-C2A-CAA-CBA
22	B	859	CLA	C3A-C2A-CAA-CBA
22	F	404	CLA	C3A-C2A-CAA-CBA
22	H	318	CLA	C3A-C2A-CAA-CBA
22	I	601	CLA	C3A-C2A-CAA-CBA
22	K	617	CLA	C3A-C2A-CAA-CBA
22	L	410	CLA	C3A-C2A-CAA-CBA
22	N	610	CLA	C3A-C2A-CAA-CBA
22	P	609	CLA	C3A-C2A-CAA-CBA
22	Q	613	CLA	C3A-C2A-CAA-CBA
22	S	606	CLA	C3A-C2A-CAA-CBA
22	S	607	CLA	C3A-C2A-CAA-CBA
22	S	609	CLA	C3A-C2A-CAA-CBA
22	U	405	CLA	C3A-C2A-CAA-CBA
22	V	603	CLA	C3A-C2A-CAA-CBA
22	X	404	CLA	C3A-C2A-CAA-CBA
22	A	807	CLA	C3A-C2A-CAA-CBA
22	A	818	CLA	C3A-C2A-CAA-CBA
22	A	838	CLA	C3A-C2A-CAA-CBA
22	A	844	CLA	C3A-C2A-CAA-CBA
22	A	852	CLA	C3A-C2A-CAA-CBA
22	Q	610	CLA	C13-C15-C16-C17
22	A	827	CLA	C8-C10-C11-C12
27	O	301	LMU	C2-C1-O1'-C1'
26	B	851	LHG	C12-C13-C14-C15
26	L	416	LHG	C14-C15-C16-C17
26	A	846	LHG	C31-C32-C33-C34
27	F	402	LMU	C2-C3-C4-C5
27	M	102	LMU	O1'-C1-C2-C3
28	F	408	LMG	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
26	T	614	LHG	C23-C24-C25-C26
22	X	408	CLA	O1A-CGA-O2A-C1
22	G	608	CLA	C11-C12-C13-C15
22	O	312	CLA	C11-C12-C13-C15
22	S	605	CLA	C11-C12-C13-C14
22	T	602	CLA	C16-C17-C18-C20
22	A	808	CLA	C16-C17-C18-C20
22	A	852	CLA	C16-C17-C18-C19
25	O	304	DGD	C3B-C4B-C5B-C6B
28	J	101	LMG	C33-C34-C35-C36
28	W	401	LMG	C30-C31-C32-C33
22	G	606	CLA	CBD-CGD-O2D-CED
22	A	816	CLA	CBD-CGD-O2D-CED
26	A	845	LHG	C15-C16-C17-C18
22	Q	612	CLA	O1D-CGD-O2D-CED
22	B	817	CLA	C4-C3-C5-C6
22	H	307	CLA	C4-C3-C5-C6
22	H	311	CLA	C4-C3-C5-C6
22	I	603	CLA	C4-C3-C5-C6
22	V	609	CLA	C4-C3-C5-C6
22	B	835	CLA	CBA-CGA-O2A-C1
22	I	603	CLA	C2-C3-C5-C6
22	A	838	CLA	C2-C3-C5-C6
28	H	317	LMG	C11-C10-O7-C8
22	W	404	CLA	O1D-CGD-O2D-CED
26	O	321	LHG	C15-C16-C17-C18
26	B	848	LHG	O1-C1-C2-O2
26	O	324	LHG	O1-C1-C2-O2
26	P	601	LHG	O1-C1-C2-O2
26	S	613	LHG	O1-C1-C2-O2
26	T	614	LHG	O1-C1-C2-O2
22	A	836	CLA	C15-C16-C17-C18
26	K	616	LHG	C29-C30-C31-C32
26	K	616	LHG	C30-C31-C32-C33
28	H	322	LMG	C11-C12-C13-C14
28	K	618	LMG	C17-C18-C19-C20
28	N	615	LMG	C19-C20-C21-C22
22	A	830	CLA	O1D-CGD-O2D-CED
26	O	318	LHG	O10-C23-O8-C6
26	A	846	LHG	O10-C23-O8-C6
22	A	821	CLA	C16-C17-C18-C20
22	K	602	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
22	N	603	CLA	C10-C11-C12-C13
22	X	412	CLA	C5-C6-C7-C8
22	A	803	CLA	C5-C6-C7-C8
27	M	102	LMU	C5-C6-C7-C8
28	J	101	LMG	C30-C31-C32-C33
28	N	615	LMG	C15-C16-C17-C18
22	A	841	CLA	C3-C5-C6-C7
26	T	614	LHG	C28-C29-C30-C31
25	B	847	DGD	C1A-C2A-C3A-C4A
28	L	401	LMG	C28-C29-C30-C31
22	Q	613	CLA	CBD-CGD-O2D-CED
26	O	321	LHG	C1-C2-C3-O3
28	L	401	LMG	C34-C35-C36-C37
28	U	423	LMG	C18-C19-C20-C21
28	B	856	LMG	O9-C10-O7-C8
26	K	619	LHG	C10-C11-C12-C13
26	N	616	LHG	C26-C27-C28-C29
26	O	323	LHG	C10-C11-C12-C13
22	U	411	CLA	C5-C6-C7-C8
22	W	409	CLA	C8-C10-C11-C12
22	A	844	CLA	C5-C6-C7-C8
22	B	810	CLA	O1A-CGA-O2A-C1
25	O	304	DGD	CDA-CEA-CFA-CGA
28	H	319	LMG	C29-C30-C31-C32
28	I	615	LMG	C22-C23-C24-C25
28	K	618	LMG	C39-C40-C41-C42
28	N	615	LMG	C13-C14-C15-C16
26	O	318	LHG	C23-C24-C25-C26
21	B	846	BCR	C5-C6-C7-C8
21	B	846	BCR	C23-C24-C25-C26
21	B	846	BCR	C23-C24-C25-C30
21	J	103	BCR	C1-C6-C7-C8
21	J	103	BCR	C5-C6-C7-C8
21	M	101	BCR	C23-C24-C25-C30
21	A	850	BCR	C23-C24-C25-C26
21	A	850	BCR	C23-C24-C25-C30
22	K	603	CLA	C3-C5-C6-C7
22	K	610	CLA	C3-C5-C6-C7
22	N	607	CLA	C3-C5-C6-C7
22	U	406	CLA	C3-C5-C6-C7
22	V	612	CLA	C3-C5-C6-C7
22	A	811	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
27	M	102	LMU	O5'-C5'-C6'-O6'
28	H	317	LMG	C30-C31-C32-C33
22	B	803	CLA	CBA-CGA-O2A-C1
22	B	804	CLA	CBA-CGA-O2A-C1
22	H	309	CLA	CBA-CGA-O2A-C1
22	K	607	CLA	CBA-CGA-O2A-C1
22	B	828	CLA	C13-C15-C16-C17
22	B	833	CLA	C15-C16-C17-C18
22	Q	610	CLA	C5-C6-C7-C8
22	W	405	CLA	C5-C6-C7-C8
22	W	411	CLA	C8-C10-C11-C12
28	K	618	LMG	C11-C10-O7-C8
28	I	614	LMG	C31-C32-C33-C34
22	H	311	CLA	O1A-CGA-O2A-C1
26	G	614	LHG	O10-C23-O8-C6
22	I	603	CLA	C11-C10-C8-C9
26	O	323	LHG	C28-C29-C30-C31
28	K	601	LMG	C29-C30-C31-C32
22	B	805	CLA	C15-C16-C17-C18
22	B	832	CLA	C5-C6-C7-C8
22	A	835	CLA	C4-C3-C5-C6
22	B	812	CLA	C2-C3-C5-C6
22	B	816	CLA	C12-C13-C15-C16
22	B	822	CLA	C11-C12-C13-C15
22	B	826	CLA	C6-C7-C8-C10
22	B	832	CLA	C6-C7-C8-C10
22	H	311	CLA	C2-C3-C5-C6
22	I	606	CLA	C2-C3-C5-C6
22	K	605	CLA	C6-C7-C8-C10
22	K	609	CLA	C11-C10-C8-C7
22	K	611	CLA	C6-C7-C8-C10
22	K	611	CLA	C12-C13-C15-C16
22	K	617	CLA	C11-C10-C8-C7
22	L	411	CLA	C11-C12-C13-C15
22	N	603	CLA	C6-C7-C8-C10
22	O	311	CLA	C2-C3-C5-C6
22	Q	604	CLA	C12-C13-C15-C16
22	Q	609	CLA	C11-C10-C8-C7
22	Q	612	CLA	C11-C12-C13-C15
22	R	601	CLA	C11-C10-C8-C7
22	T	603	CLA	C11-C10-C8-C7
22	T	607	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
22	V	602	CLA	C11-C12-C13-C15
22	V	603	CLA	C6-C7-C8-C10
22	W	414	CLA	C11-C12-C13-C15
22	A	806	CLA	C6-C7-C8-C10
22	A	811	CLA	C6-C7-C8-C10
22	A	816	CLA	C11-C12-C13-C15
22	A	819	CLA	C11-C10-C8-C7
22	A	820	CLA	C2-C3-C5-C6
22	A	825	CLA	C11-C10-C8-C7
22	A	828	CLA	C2-C3-C5-C6
22	A	830	CLA	C2-C3-C5-C6
22	A	830	CLA	C11-C12-C13-C15
22	A	831	CLA	C11-C10-C8-C7
22	A	840	CLA	C11-C12-C13-C15
22	B	859	CLA	C3-C5-C6-C7
22	B	804	CLA	O1A-CGA-O2A-C1
22	B	835	CLA	O1A-CGA-O2A-C1
22	K	607	CLA	O1A-CGA-O2A-C1
28	U	402	LMG	C16-C17-C18-C19
22	B	817	CLA	C8-C10-C11-C12
22	Q	612	CLA	C8-C10-C11-C12
22	W	414	CLA	C10-C11-C12-C13
22	H	303	CLA	C11-C12-C13-C14
22	N	610	CLA	C6-C7-C8-C10
22	H	309	CLA	O1D-CGD-O2D-CED
22	U	406	CLA	O1D-CGD-O2D-CED
22	O	305	CLA	CBA-CGA-O2A-C1
22	R	603	CLA	CBA-CGA-O2A-C1
22	T	604	CLA	CBA-CGA-O2A-C1
22	T	605	CLA	CBA-CGA-O2A-C1
26	O	324	LHG	C24-C23-O8-C6
28	K	601	LMG	C29-C28-O8-C9
28	I	614	LMG	C12-C13-C14-C15
28	U	423	LMG	C31-C32-C33-C34
22	B	826	CLA	C2A-CAA-CBA-CGA
22	N	610	CLA	C2A-CAA-CBA-CGA
22	S	610	CLA	C2A-CAA-CBA-CGA
22	U	414	CLA	C2A-CAA-CBA-CGA
22	A	803	CLA	C2A-CAA-CBA-CGA
22	A	814	CLA	C2A-CAA-CBA-CGA
22	A	820	CLA	C2A-CAA-CBA-CGA
22	T	604	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
22	A	814	CLA	C15-C16-C17-C18
26	B	851	LHG	C14-C15-C16-C17
28	F	408	LMG	C18-C19-C20-C21
28	K	601	LMG	C16-C17-C18-C19
22	O	308	CLA	C12-C13-C15-C16
22	R	603	CLA	C11-C10-C8-C7
22	U	414	CLA	C12-C13-C15-C16
22	A	825	CLA	C12-C13-C15-C16
28	U	423	LMG	C10-C11-C12-C13
22	X	410	CLA	O1D-CGD-O2D-CED
28	K	622	LMG	C29-C30-C31-C32
26	X	420	LHG	C26-C27-C28-C29
28	H	319	LMG	C14-C15-C16-C17
28	J	101	LMG	C14-C15-C16-C17
27	B	855	LMU	O5'-C5'-C6'-O6'
22	K	604	CLA	CBD-CGD-O2D-CED
22	B	832	CLA	CBA-CGA-O2A-C1
22	A	820	CLA	C16-C17-C18-C20
28	I	615	LMG	O6-C1-O1-C7
22	B	816	CLA	C13-C15-C16-C17
22	B	817	CLA	C15-C16-C17-C18
22	V	603	CLA	O1D-CGD-O2D-CED
26	O	321	LHG	C9-C10-C11-C12
26	P	601	LHG	C10-C11-C12-C13
28	B	852	LMG	C21-C22-C23-C24
28	H	317	LMG	C39-C40-C41-C42
26	X	420	LHG	C8-C7-O7-C5
28	I	614	LMG	C11-C10-O7-C8
28	U	423	LMG	C11-C10-O7-C8
28	L	401	LMG	O6-C5-C6-O5
27	L	419	LMU	C7-C8-C9-C10
28	G	616	LMG	C36-C37-C38-C39
28	U	402	LMG	C17-C18-C19-C20
22	A	812	CLA	C5-C6-C7-C8
22	L	405	CLA	CBD-CGD-O2D-CED
22	X	402	CLA	CBD-CGD-O2D-CED
26	G	614	LHG	C12-C13-C14-C15
28	H	319	LMG	O9-C10-O7-C8
25	B	847	DGD	CCB-CDB-CEB-CFB
25	F	401	DGD	O2G-C2G-C3G-O3G
26	O	321	LHG	O7-C5-C6-O8
28	B	852	LMG	O7-C8-C9-O8

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Mol	Chain	Res	Type	Atoms
28	B	856	LMG	O1-C7-C8-O7
28	G	616	LMG	O7-C8-C9-O8
28	Q	602	LMG	O1-C7-C8-O7
27	U	421	LMU	O5'-C5'-C6'-O6'
22	B	812	CLA	C16-C17-C18-C19
25	F	401	DGD	CCA-CDA-CEA-CFA
27	H	320	LMU	O5'-C5'-C6'-O6'
22	I	606	CLA	C4-C3-C5-C6
22	L	404	CLA	C4-C3-C5-C6
22	O	311	CLA	C4-C3-C5-C6
22	Q	604	CLA	C4-C3-C5-C6
22	A	820	CLA	C4-C3-C5-C6
22	A	828	CLA	C4-C3-C5-C6
28	A	855	LMG	C4-C5-C6-O5
22	G	603	CLA	C2-C3-C5-C6
22	H	307	CLA	C2-C3-C5-C6
24	J	105	DD6	C27-C29-C30-C31
24	L	413	DD6	C27-C29-C30-C31
24	L	414	DD6	C27-C29-C30-C31
24	L	415	DD6	C27-C29-C30-C31
24	P	612	DD6	C27-C29-C30-C31
24	R	612	DD6	C27-C29-C30-C31
24	S	612	DD6	C27-C29-C30-C31
24	U	416	DD6	C27-C29-C30-C31
24	U	417	DD6	C27-C29-C30-C31
24	W	416	DD6	C27-C29-C30-C31
24	A	859	DD6	C27-C29-C30-C31
28	W	401	LMG	C31-C32-C33-C34
22	B	812	CLA	C14-C13-C15-C16
22	B	822	CLA	C11-C12-C13-C14
22	I	606	CLA	C6-C7-C8-C9
22	K	609	CLA	C11-C10-C8-C9
22	K	611	CLA	C14-C13-C15-C16
22	L	408	CLA	C11-C10-C8-C9
22	N	603	CLA	C6-C7-C8-C9
22	O	308	CLA	C11-C12-C13-C14
22	Q	604	CLA	C11-C10-C8-C9
22	Q	612	CLA	C11-C12-C13-C14
22	R	615	CLA	C14-C13-C15-C16
22	T	604	CLA	C14-C13-C15-C16
22	T	607	CLA	C6-C7-C8-C9
22	V	602	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
22	W	414	CLA	C11-C12-C13-C14
22	A	803	CLA	C14-C13-C15-C16
22	A	806	CLA	C6-C7-C8-C9
22	A	813	CLA	C11-C10-C8-C9
22	A	819	CLA	C11-C10-C8-C9
22	A	824	CLA	C6-C7-C8-C9
22	A	825	CLA	C11-C10-C8-C9
22	A	831	CLA	C11-C10-C8-C9
22	B	820	CLA	CBD-CGD-O2D-CED
26	N	616	LHG	C15-C16-C17-C18
26	S	613	LHG	C10-C11-C12-C13
26	A	846	LHG	C34-C35-C36-C37
27	B	854	LMU	C6-C7-C8-C9
28	U	402	LMG	C34-C35-C36-C37
28	U	423	LMG	C19-C20-C21-C22
22	A	803	CLA	C8-C10-C11-C12
22	B	807	CLA	C3-C5-C6-C7
22	F	404	CLA	C3-C5-C6-C7
22	B	811	CLA	C2A-CAA-CBA-CGA
22	A	819	CLA	C2A-CAA-CBA-CGA
25	F	401	DGD	CBA-CCA-CDA-CEA
26	P	601	LHG	C9-C10-C11-C12
26	T	614	LHG	C11-C12-C13-C14
28	G	616	LMG	C31-C32-C33-C34
28	A	855	LMG	C33-C34-C35-C36
22	H	313	CLA	CBA-CGA-O2A-C1
22	N	607	CLA	CBA-CGA-O2A-C1
24	J	105	DD6	C12-C11-C13-C14
22	R	605	CLA	O1D-CGD-O2D-CED
22	S	607	CLA	C8-C10-C11-C12
22	X	407	CLA	C15-C16-C17-C18
22	P	611	CLA	C4C-C3C-CAC-CBC
26	T	614	LHG	C12-C13-C14-C15
26	A	846	LHG	C14-C15-C16-C17
28	L	401	LMG	C32-C33-C34-C35
24	J	105	DD6	C10-C11-C13-C14
22	H	309	CLA	O1A-CGA-O2A-C1
22	B	804	CLA	C1A-C2A-CAA-CBA
22	B	816	CLA	C1A-C2A-CAA-CBA
22	B	819	CLA	C1A-C2A-CAA-CBA
22	B	824	CLA	C1A-C2A-CAA-CBA
22	B	827	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	B	831	CLA	C1A-C2A-CAA-CBA
22	B	859	CLA	C1A-C2A-CAA-CBA
22	F	404	CLA	C1A-C2A-CAA-CBA
22	G	611	CLA	C1A-C2A-CAA-CBA
22	H	318	CLA	C1A-C2A-CAA-CBA
22	K	617	CLA	C1A-C2A-CAA-CBA
22	L	412	CLA	C1A-C2A-CAA-CBA
22	N	610	CLA	C1A-C2A-CAA-CBA
22	O	308	CLA	C1A-C2A-CAA-CBA
22	P	602	CLA	C1A-C2A-CAA-CBA
22	P	608	CLA	C1A-C2A-CAA-CBA
22	P	609	CLA	C1A-C2A-CAA-CBA
22	Q	618	CLA	C1A-C2A-CAA-CBA
22	R	602	CLA	C1A-C2A-CAA-CBA
22	R	607	CLA	C1A-C2A-CAA-CBA
22	S	609	CLA	C1A-C2A-CAA-CBA
22	T	611	CLA	C1A-C2A-CAA-CBA
22	U	405	CLA	C1A-C2A-CAA-CBA
22	V	603	CLA	C1A-C2A-CAA-CBA
22	V	613	CLA	C1A-C2A-CAA-CBA
22	W	410	CLA	C1A-C2A-CAA-CBA
22	X	404	CLA	C1A-C2A-CAA-CBA
22	X	405	CLA	C1A-C2A-CAA-CBA
22	A	820	CLA	C1A-C2A-CAA-CBA
22	A	827	CLA	C1A-C2A-CAA-CBA
22	A	842	CLA	C1A-C2A-CAA-CBA
22	A	844	CLA	C1A-C2A-CAA-CBA
28	Q	602	LMG	O6-C5-C6-O5
22	X	408	CLA	C16-C17-C18-C19
22	A	810	CLA	C16-C17-C18-C20
22	A	820	CLA	C16-C17-C18-C19
26	X	420	LHG	O9-C7-O7-C5
28	Q	602	LMG	O9-C10-O7-C8
26	A	845	LHG	C8-C7-O7-C5
22	G	608	CLA	C8-C10-C11-C12
22	L	402	CLA	C8-C10-C11-C12
22	A	829	CLA	C10-C11-C12-C13
26	L	416	LHG	C3-O3-P-O6
26	O	321	LHG	C3-O3-P-O6
26	O	323	LHG	C4-O6-P-O3
26	A	845	LHG	C4-O6-P-O3
28	B	856	LMG	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
28	F	408	LMG	C31-C32-C33-C34
25	F	401	DGD	C1A-C2A-C3A-C4A
22	G	601	CLA	O1D-CGD-O2D-CED
22	B	803	CLA	O1A-CGA-O2A-C1
27	B	849	LMU	C1-C2-C3-C4
22	U	404	CLA	C10-C11-C12-C13
22	A	821	CLA	C15-C16-C17-C18
22	A	819	CLA	CBA-CGA-O2A-C1
26	K	619	LHG	O6-C4-C5-C6
26	X	420	LHG	O6-C4-C5-C6
25	B	847	DGD	CDA-CEA-CFA-CGA
26	Q	616	LHG	C29-C30-C31-C32
27	B	850	LMU	C3-C4-C5-C6
28	Q	602	LMG	C29-C30-C31-C32
28	Q	602	LMG	C4-C5-C6-O5
27	A	854	LMU	C5-C6-C7-C8
28	J	101	LMG	C39-C40-C41-C42
22	O	310	CLA	O1D-CGD-O2D-CED
26	K	616	LHG	C25-C26-C27-C28
22	K	613	CLA	C3-C5-C6-C7
22	W	411	CLA	C10-C11-C12-C13
28	A	855	LMG	C10-C11-C12-C13
26	X	420	LHG	C10-C11-C12-C13
28	G	616	LMG	C29-C30-C31-C32
22	A	806	CLA	CBA-CGA-O2A-C1
26	O	324	LHG	O10-C23-O8-C6
26	A	846	LHG	C1-C2-C3-O3
27	O	322	LMU	O5'-C5'-C6'-O6'
22	B	812	CLA	C4-C3-C5-C6
22	W	402	CLA	C4-C3-C5-C6
22	B	817	CLA	C2-C3-C5-C6
26	A	846	LHG	C28-C29-C30-C31
22	A	819	CLA	O1D-CGD-O2D-CED
27	T	617	LMU	C2-C3-C4-C5
28	W	401	LMG	C29-C30-C31-C32
28	K	601	LMG	C10-C11-C12-C13
22	T	604	CLA	O1A-CGA-O2A-C1
26	B	851	LHG	C28-C29-C30-C31
28	I	614	LMG	C29-C30-C31-C32
28	K	618	LMG	C31-C32-C33-C34
28	K	622	LMG	C32-C33-C34-C35
28	N	615	LMG	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
22	B	817	CLA	C16-C17-C18-C20
22	A	822	CLA	C16-C17-C18-C20
22	T	601	CLA	O1D-CGD-O2D-CED
25	O	304	DGD	C6A-C7A-C8A-C9A
25	O	304	DGD	O1G-C1G-C2G-C3G
26	B	851	LHG	C4-C5-C6-O8
26	K	616	LHG	C4-C5-C6-O8
26	L	416	LHG	C4-C5-C6-O8
26	N	614	LHG	C4-C5-C6-O8
26	R	614	LHG	C4-C5-C6-O8
28	B	852	LMG	C7-C8-C9-O8
28	B	856	LMG	O1-C7-C8-C9
28	G	616	LMG	O1-C7-C8-C9
28	H	319	LMG	O1-C7-C8-C9
28	H	322	LMG	C7-C8-C9-O8
28	N	615	LMG	O1-C7-C8-C9
28	U	402	LMG	C7-C8-C9-O8
30	K	621	SQD	C44-C45-C46-O48
30	O	302	SQD	C44-C45-C46-O48
22	B	828	CLA	C15-C16-C17-C18
26	N	616	LHG	C7-C8-C9-C10
22	R	603	CLA	O1A-CGA-O2A-C1
25	B	847	DGD	C5D-C6D-O5D-C1E
25	O	304	DGD	C2G-C3G-O3G-C1D
28	H	322	LMG	C8-C7-O1-C1
26	O	318	LHG	C11-C10-C9-C8
26	O	321	LHG	C33-C34-C35-C36
26	R	614	LHG	C28-C29-C30-C31
28	B	856	LMG	C37-C38-C39-C40
28	U	402	LMG	C40-C41-C42-C43
22	B	859	CLA	CBD-CGD-O2D-CED
22	A	820	CLA	C15-C16-C17-C18
22	R	603	CLA	C11-C10-C8-C9
28	K	618	LMG	C18-C19-C20-C21
27	F	409	LMU	O5'-C5'-C6'-O6'
28	H	319	LMG	C10-C11-C12-C13
22	T	605	CLA	O1A-CGA-O2A-C1
22	L	410	CLA	C3-C5-C6-C7
28	T	616	LMG	C4-C5-C6-O5
27	T	617	LMU	O5'-C1'-O1'-C1
28	F	408	LMG	O6-C1-O1-C7
28	N	615	LMG	O6-C1-O1-C7

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Mol	Chain	Res	Type	Atoms
22	Q	604	CLA	C10-C11-C12-C13
22	A	831	CLA	C5-C6-C7-C8
26	P	601	LHG	C11-C10-C9-C8
26	X	420	LHG	C12-C13-C14-C15
27	K	620	LMU	O5B-C5B-C6B-O6B
27	U	422	LMU	O5B-C5B-C6B-O6B
27	W	421	LMU	O5'-C5'-C6'-O6'
28	H	319	LMG	O6-C5-C6-O5
26	O	323	LHG	O1-C1-C2-O2
26	Q	616	LHG	O1-C1-C2-O2
26	L	416	LHG	C12-C13-C14-C15
26	A	846	LHG	C25-C26-C27-C28
22	B	832	CLA	O1A-CGA-O2A-C1
22	O	305	CLA	O1A-CGA-O2A-C1
27	O	322	LMU	C2B-C1B-O1B-C4'
26	A	845	LHG	C17-C18-C19-C20
28	B	856	LMG	C38-C39-C40-C41
22	T	607	CLA	O1D-CGD-O2D-CED
22	X	409	CLA	C5-C6-C7-C8
27	O	303	LMU	O5B-C5B-C6B-O6B
27	O	303	LMU	O5'-C5'-C6'-O6'
28	B	856	LMG	O6-C5-C6-O5
28	K	618	LMG	O6-C5-C6-O5
22	G	603	CLA	C4-C3-C5-C6
22	N	610	CLA	C4-C3-C5-C6
22	Q	617	CLA	C4-C3-C5-C6
22	A	822	CLA	C4-C3-C5-C6
28	F	408	LMG	C29-C30-C31-C32
22	W	413	CLA	O1D-CGD-O2D-CED
28	H	319	LMG	C28-C29-C30-C31
22	Q	604	CLA	C16-C17-C18-C19
22	S	605	CLA	C11-C12-C13-C15
22	B	816	CLA	CBA-CGA-O2A-C1
22	B	827	CLA	CBA-CGA-O2A-C1
27	L	419	LMU	O5'-C5'-C6'-O6'
27	U	424	LMU	O5'-C5'-C6'-O6'
26	R	614	LHG	C9-C10-C11-C12
22	B	812	CLA	C15-C16-C17-C18
22	A	805	CLA	C5-C6-C7-C8
25	O	304	DGD	C6B-C7B-C8B-C9B
27	M	102	LMU	C4-C5-C6-C7
28	F	408	LMG	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
28	I	615	LMG	C38-C39-C40-C41
26	W	420	LHG	C6-C5-O7-C7
28	K	601	LMG	C9-C8-O7-C10
22	A	833	CLA	C2A-CAA-CBA-CGA
22	N	607	CLA	O1A-CGA-O2A-C1
22	R	615	CLA	C13-C15-C16-C17
22	A	835	CLA	O1D-CGD-O2D-CED
28	K	601	LMG	O6-C5-C6-O5
26	O	321	LHG	C10-C11-C12-C13
28	N	615	LMG	C16-C17-C18-C19
22	K	612	CLA	O1D-CGD-O2D-CED
22	L	410	CLA	O1D-CGD-O2D-CED
22	Q	601	CLA	O1D-CGD-O2D-CED
27	B	858	LMU	O1'-C1-C2-C3
28	B	856	LMG	C17-C18-C19-C20
28	G	616	LMG	C42-C43-C44-C45
22	V	612	CLA	CBA-CGA-O2A-C1
22	A	816	CLA	CBA-CGA-O2A-C1
22	P	609	CLA	O1D-CGD-O2D-CED
26	A	846	LHG	C12-C13-C14-C15
28	N	615	LMG	C31-C32-C33-C34
25	O	304	DGD	CCA-CDA-CEA-CFA
22	H	313	CLA	O1A-CGA-O2A-C1
25	B	847	DGD	CEA-CFA-CGA-CHA
22	L	417	CLA	C8-C10-C11-C12
27	K	620	LMU	C2'-C1'-O1'-C1
28	K	622	LMG	C2-C1-O1-C7
26	T	614	LHG	C35-C36-C37-C38
26	B	848	LHG	O8-C23-C24-C25
25	O	304	DGD	O1G-C1G-C2G-O2G
26	K	619	LHG	O7-C5-C6-O8
28	F	408	LMG	O7-C8-C9-O8
30	O	302	SQD	O47-C45-C46-O48
26	U	419	LHG	C3-O3-P-O5
28	H	319	LMG	C17-C18-C19-C20
22	A	806	CLA	O1A-CGA-O2A-C1
22	A	819	CLA	O1A-CGA-O2A-C1
22	A	826	CLA	C16-C17-C18-C19
25	B	847	DGD	CFA-CGA-CHA-CIA
26	K	616	LHG	C28-C29-C30-C31
28	B	856	LMG	C16-C17-C18-C19
28	J	101	LMG	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
28	K	618	LMG	C38-C39-C40-C41
28	U	423	LMG	C34-C35-C36-C37
22	U	401	CLA	C4-C3-C5-C6
22	A	836	CLA	C4-C3-C5-C6
33	A	802	CL0	C4-C3-C5-C6
28	I	614	LMG	C30-C31-C32-C33
22	B	813	CLA	C6-C7-C8-C10
22	B	821	CLA	C6-C7-C8-C10
22	B	823	CLA	C12-C13-C15-C16
22	B	824	CLA	C12-C13-C15-C16
22	B	830	CLA	C11-C12-C13-C15
22	B	832	CLA	C11-C10-C8-C7
22	B	835	CLA	C12-C13-C15-C16
22	G	606	CLA	C11-C12-C13-C15
22	G	608	CLA	C11-C10-C8-C7
22	I	606	CLA	C6-C7-C8-C10
22	L	402	CLA	C11-C10-C8-C7
22	L	402	CLA	C12-C13-C15-C16
22	L	408	CLA	C6-C7-C8-C10
22	L	417	CLA	C6-C7-C8-C10
22	Q	612	CLA	C12-C13-C15-C16
22	R	601	CLA	C6-C7-C8-C10
22	R	605	CLA	C6-C7-C8-C10
22	R	606	CLA	C6-C7-C8-C10
22	T	604	CLA	C12-C13-C15-C16
22	U	414	CLA	C11-C12-C13-C15
22	W	410	CLA	C11-C10-C8-C7
22	X	408	CLA	C6-C7-C8-C10
22	X	412	CLA	C11-C12-C13-C15
22	A	803	CLA	C12-C13-C15-C16
22	A	804	CLA	C11-C10-C8-C7
22	A	808	CLA	C12-C13-C15-C16
22	A	815	CLA	C11-C10-C8-C7
22	A	825	CLA	C11-C12-C13-C15
22	A	835	CLA	C2-C3-C5-C6
22	A	835	CLA	C11-C12-C13-C15
22	A	836	CLA	C11-C12-C13-C15
22	A	839	CLA	C12-C13-C15-C16
22	A	840	CLA	C11-C10-C8-C7
22	A	852	CLA	C11-C12-C13-C15
23	A	843	PQN	C17-C18-C20-C21
27	X	421	LMU	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
28	I	615	LMG	C37-C38-C39-C40
28	N	615	LMG	C30-C31-C32-C33
22	B	824	CLA	C14-C13-C15-C16
22	B	825	CLA	C11-C12-C13-C14
22	B	828	CLA	C11-C10-C8-C9
22	B	831	CLA	C6-C7-C8-C9
22	B	831	CLA	C11-C10-C8-C9
22	B	832	CLA	C11-C10-C8-C9
22	B	835	CLA	C11-C10-C8-C9
22	B	835	CLA	C14-C13-C15-C16
22	B	859	CLA	C14-C13-C15-C16
22	G	608	CLA	C6-C7-C8-C9
22	G	608	CLA	C11-C10-C8-C9
22	H	303	CLA	C6-C7-C8-C9
22	H	303	CLA	C11-C10-C8-C9
22	H	308	CLA	C11-C10-C8-C9
22	H	311	CLA	C6-C7-C8-C9
22	K	603	CLA	C6-C7-C8-C9
22	L	402	CLA	C14-C13-C15-C16
22	L	408	CLA	C6-C7-C8-C9
22	L	410	CLA	C11-C10-C8-C9
22	L	411	CLA	C11-C12-C13-C14
22	L	417	CLA	C6-C7-C8-C9
22	N	607	CLA	C6-C7-C8-C9
22	Q	609	CLA	C11-C10-C8-C9
22	R	601	CLA	C6-C7-C8-C9
22	R	605	CLA	C6-C7-C8-C9
22	T	604	CLA	C6-C7-C8-C9
22	U	404	CLA	C11-C10-C8-C9
22	V	612	CLA	C14-C13-C15-C16
22	W	404	CLA	C14-C13-C15-C16
22	X	407	CLA	C11-C12-C13-C14
22	X	408	CLA	C6-C7-C8-C9
22	A	801	CLA	C11-C10-C8-C9
22	A	803	CLA	C6-C7-C8-C9
22	A	810	CLA	C11-C12-C13-C14
22	A	811	CLA	C6-C7-C8-C9
22	A	815	CLA	C11-C10-C8-C9
22	A	829	CLA	C11-C12-C13-C14
22	A	852	CLA	C6-C7-C8-C9
23	A	843	PQN	C19-C18-C20-C21
22	O	313	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
30	F	407	SQD	C7-C8-C9-C10
27	U	421	LMU	C2-C3-C4-C5
22	B	809	CLA	CBA-CGA-O2A-C1
22	Q	612	CLA	CBA-CGA-O2A-C1
22	A	840	CLA	C8-C10-C11-C12
22	B	815	CLA	C2A-CAA-CBA-CGA
26	A	846	LHG	C11-C10-C9-C8
27	W	421	LMU	C4-C5-C6-C7
22	P	604	CLA	O1D-CGD-O2D-CED
22	S	601	CLA	CBD-CGD-O2D-CED
24	N	613	DD6	C12-C11-C13-C14
24	A	858	DD6	C12-C11-C13-C14
22	B	817	CLA	C16-C17-C18-C19
22	O	306	CLA	C11-C12-C13-C15
22	Q	604	CLA	C16-C17-C18-C20
24	F	406	DD6	C10-C11-C13-C14
24	N	613	DD6	C10-C11-C13-C14
24	A	858	DD6	C10-C11-C13-C14
22	O	313	CLA	C3-C5-C6-C7
22	N	608	CLA	O1D-CGD-O2D-CED
22	B	812	CLA	C13-C15-C16-C17
28	H	317	LMG	C36-C37-C38-C39
28	Q	602	LMG	C32-C33-C34-C35
22	L	402	CLA	CBA-CGA-O2A-C1
22	S	604	CLA	CBA-CGA-O2A-C1
22	W	412	CLA	CBA-CGA-O2A-C1
22	A	836	CLA	CBA-CGA-O2A-C1
27	B	858	LMU	C2'-C1'-O1'-C1
28	B	852	LMG	C19-C20-C21-C22
28	W	401	LMG	C33-C34-C35-C36
22	O	313	CLA	C13-C15-C16-C17
22	R	615	CLA	C8-C10-C11-C12
22	W	411	CLA	C5-C6-C7-C8
28	K	622	LMG	C14-C15-C16-C17
26	L	416	LHG	C27-C28-C29-C30
30	K	621	SQD	C11-C10-C9-C8
22	B	817	CLA	C13-C15-C16-C17
26	P	601	LHG	O6-C4-C5-C6
22	B	832	CLA	C3-C5-C6-C7
22	N	610	CLA	C3-C5-C6-C7
22	O	312	CLA	C3-C5-C6-C7
28	J	101	LMG	C35-C36-C37-C38

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Mol	Chain	Res	Type	Atoms
27	J	104	LMU	C7-C8-C9-C10
22	A	816	CLA	C8-C10-C11-C12
28	H	322	LMG	C31-C32-C33-C34
28	J	101	LMG	C37-C38-C39-C40
22	A	832	CLA	C4-C3-C5-C6
22	L	404	CLA	C2-C3-C5-C6
22	Q	617	CLA	C2-C3-C5-C6
22	V	609	CLA	C2-C3-C5-C6
22	A	836	CLA	C2-C3-C5-C6
33	A	802	CL0	C2-C3-C5-C6
26	X	420	LHG	C9-C10-C11-C12
28	G	616	LMG	C40-C41-C42-C43
22	V	604	CLA	C11-C10-C8-C9
22	A	816	CLA	C14-C13-C15-C16
22	A	825	CLA	C14-C13-C15-C16
22	B	827	CLA	O1A-CGA-O2A-C1
22	K	608	CLA	O1D-CGD-O2D-CED
22	W	403	CLA	O1D-CGD-O2D-CED
22	X	412	CLA	C16-C17-C18-C19
25	B	847	DGD	C4A-C5A-C6A-C7A
26	N	616	LHG	C28-C29-C30-C31
28	H	322	LMG	C32-C33-C34-C35
28	K	618	LMG	C16-C17-C18-C19
28	L	401	LMG	C15-C16-C17-C18
31	W	408	CHL	C8-C10-C11-C12
26	P	601	LHG	O8-C23-C24-C25
26	K	616	LHG	C9-C10-C11-C12
22	J	102	CLA	C3A-C2A-CAA-CBA
22	K	609	CLA	C3A-C2A-CAA-CBA
22	L	412	CLA	C3A-C2A-CAA-CBA
22	P	605	CLA	C3A-C2A-CAA-CBA
22	V	608	CLA	C3A-C2A-CAA-CBA
22	V	617	CLA	C3A-C2A-CAA-CBA
22	W	410	CLA	C3A-C2A-CAA-CBA
28	J	101	LMG	C29-C30-C31-C32
27	B	857	LMU	C2-C1-O1'-C1'
25	B	847	DGD	CFB-CGB-CHB-CIB
28	G	616	LMG	C30-C31-C32-C33
28	G	616	LMG	C4-C5-C6-O5
22	B	834	CLA	C13-C15-C16-C17
22	V	612	CLA	O1A-CGA-O2A-C1
28	B	852	LMG	C30-C31-C32-C33

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Mol	Chain	Res	Type	Atoms
22	H	305	CLA	CBA-CGA-O2A-C1
28	I	615	LMG	C34-C35-C36-C37
22	K	604	CLA	C2A-CAA-CBA-CGA
25	F	401	DGD	C1G-C2G-C3G-O3G
25	O	304	DGD	C1G-C2G-C3G-O3G
26	O	321	LHG	C4-C5-C6-O8
26	P	601	LHG	C4-C5-C6-O8
26	W	420	LHG	C4-C5-C6-O8
28	B	852	LMG	O1-C7-C8-C9
28	F	408	LMG	C7-C8-C9-O8
28	H	319	LMG	C7-C8-C9-O8
28	K	601	LMG	O1-C7-C8-C9
28	K	601	LMG	C7-C8-C9-O8
28	Q	602	LMG	O1-C7-C8-C9
28	G	616	LMG	C32-C33-C34-C35
26	A	846	LHG	C29-C30-C31-C32
26	O	324	LHG	C27-C28-C29-C30
22	W	411	CLA	C4-C3-C5-C6
25	F	401	DGD	C3A-C4A-C5A-C6A
26	G	614	LHG	C3-O3-P-O6
26	P	601	LHG	C4-O6-P-O3
28	B	856	LMG	C28-C29-C30-C31
22	B	816	CLA	O1A-CGA-O2A-C1
22	A	816	CLA	O1A-CGA-O2A-C1
28	K	601	LMG	C32-C33-C34-C35
22	G	608	CLA	C2A-CAA-CBA-CGA
26	K	619	LHG	O1-C1-C2-O2
26	N	616	LHG	O1-C1-C2-O2
22	O	313	CLA	C5-C6-C7-C8
22	A	808	CLA	C10-C11-C12-C13
28	N	615	LMG	C21-C22-C23-C24
26	O	324	LHG	O6-C4-C5-O7
26	Q	616	LHG	O6-C4-C5-O7
26	T	614	LHG	O6-C4-C5-O7
26	X	420	LHG	O6-C4-C5-O7
26	A	846	LHG	O6-C4-C5-O7
22	U	414	CLA	CBA-CGA-O2A-C1
22	B	809	CLA	O1A-CGA-O2A-C1
22	K	602	CLA	C11-C12-C13-C14
22	G	606	CLA	O1D-CGD-O2D-CED
22	N	601	CLA	CBD-CGD-O2D-CED
26	X	420	LHG	C27-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
28	I	615	LMG	C24-C25-C26-C27
28	L	401	LMG	C30-C31-C32-C33
25	O	304	DGD	C9B-CAB-CBB-CCB
26	O	318	LHG	C26-C27-C28-C29
26	N	614	LHG	O7-C5-C6-O8
26	T	614	LHG	O7-C5-C6-O8
26	U	419	LHG	O7-C5-C6-O8
28	H	319	LMG	O7-C8-C9-O8
28	H	322	LMG	O7-C8-C9-O8
28	K	618	LMG	O7-C8-C9-O8
28	U	402	LMG	O7-C8-C9-O8
28	U	423	LMG	O1-C7-C8-O7
22	N	603	CLA	C13-C15-C16-C17
22	A	803	CLA	O1D-CGD-O2D-CED
27	U	422	LMU	C5-C6-C7-C8
28	Q	602	LMG	C34-C35-C36-C37
22	B	823	CLA	C16-C17-C18-C19
22	X	412	CLA	C16-C17-C18-C20
22	A	822	CLA	C16-C17-C18-C19
22	I	601	CLA	C15-C16-C17-C18
22	T	609	CLA	CBD-CGD-O2D-CED
22	B	820	CLA	C5-C6-C7-C8
26	O	318	LHG	C11-C12-C13-C14
26	A	845	LHG	O9-C7-O7-C5
22	K	609	CLA	C2-C1-O2A-CGA
22	R	606	CLA	C2-C1-O2A-CGA
22	Q	613	CLA	O1D-CGD-O2D-CED
25	O	304	DGD	C1A-C2A-C3A-C4A
22	B	806	CLA	C6-C7-C8-C9
22	B	807	CLA	C6-C7-C8-C9
22	B	830	CLA	C14-C13-C15-C16
22	B	859	CLA	C6-C7-C8-C9
22	H	311	CLA	C11-C12-C13-C14
22	K	608	CLA	C14-C13-C15-C16
22	L	402	CLA	C11-C12-C13-C14
22	L	406	CLA	C6-C7-C8-C9
22	L	406	CLA	C14-C13-C15-C16
22	U	404	CLA	C6-C7-C8-C9
22	U	414	CLA	C11-C12-C13-C14
22	V	604	CLA	C6-C7-C8-C9
22	A	801	CLA	C11-C12-C13-C14
22	A	803	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
22	A	821	CLA	C11-C12-C13-C14
22	A	824	CLA	C11-C10-C8-C9
22	A	829	CLA	C11-C10-C8-C9
22	A	839	CLA	C14-C13-C15-C16
22	A	840	CLA	C14-C13-C15-C16
22	A	852	CLA	C11-C12-C13-C14
26	U	419	LHG	C26-C27-C28-C29
28	K	618	LMG	C34-C35-C36-C37
22	A	833	CLA	CBD-CGD-O2D-CED
25	B	847	DGD	C7A-C8A-C9A-CAA
26	O	324	LHG	C25-C26-C27-C28
28	B	852	LMG	C17-C18-C19-C20
22	T	604	CLA	C15-C16-C17-C18
26	P	601	LHG	C5-C4-O6-P
22	Q	612	CLA	O1A-CGA-O2A-C1
28	J	101	LMG	C38-C39-C40-C41
28	T	616	LMG	C30-C31-C32-C33
22	I	610	CLA	C2A-CAA-CBA-CGA
22	Q	612	CLA	C2A-CAA-CBA-CGA
22	R	608	CLA	C2A-CAA-CBA-CGA
22	O	306	CLA	C11-C12-C13-C14
22	S	604	CLA	C11-C12-C13-C14
22	A	810	CLA	C16-C17-C18-C19
22	O	310	CLA	C10-C11-C12-C13
26	G	614	LHG	C11-C10-C9-C8
26	O	324	LHG	C12-C13-C14-C15
26	A	846	LHG	C27-C28-C29-C30
27	U	421	LMU	C3'-C4'-O1B-C1B
28	A	855	LMG	C15-C16-C17-C18
21	B	801	BCR	C11-C12-C13-C14
22	A	833	CLA	C8-C10-C11-C12
28	K	601	LMG	C11-C12-C13-C14
26	O	324	LHG	C26-C27-C28-C29
22	A	816	CLA	O1D-CGD-O2D-CED
22	U	414	CLA	C14-C13-C15-C16
27	U	421	LMU	C6-C7-C8-C9
22	B	813	CLA	C8-C10-C11-C12
28	K	622	LMG	C17-C18-C19-C20
22	K	604	CLA	O1D-CGD-O2D-CED
25	F	401	DGD	C4A-C5A-C6A-C7A
27	H	301	LMU	O1'-C1-C2-C3
28	U	423	LMG	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
28	U	423	LMG	C23-C24-C25-C26
22	O	313	CLA	C8-C10-C11-C12
22	B	806	CLA	C6-C7-C8-C10
22	B	806	CLA	C12-C13-C15-C16
22	B	817	CLA	C11-C10-C8-C7
22	B	818	CLA	C11-C10-C8-C7
22	B	830	CLA	C12-C13-C15-C16
22	B	831	CLA	C6-C7-C8-C10
22	B	831	CLA	C11-C10-C8-C7
22	B	835	CLA	C11-C10-C8-C7
22	B	859	CLA	C12-C13-C15-C16
22	G	606	CLA	C6-C7-C8-C10
22	G	606	CLA	C11-C10-C8-C7
22	H	303	CLA	C6-C7-C8-C10
22	H	303	CLA	C11-C10-C8-C7
22	H	305	CLA	C6-C7-C8-C10
22	H	308	CLA	C11-C10-C8-C7
22	H	313	CLA	C11-C10-C8-C7
22	K	603	CLA	C6-C7-C8-C10
22	K	603	CLA	C11-C10-C8-C7
22	K	604	CLA	C6-C7-C8-C10
22	K	609	CLA	C6-C7-C8-C10
22	L	403	CLA	C6-C7-C8-C10
22	L	406	CLA	C6-C7-C8-C10
22	L	410	CLA	C11-C10-C8-C7
22	L	411	CLA	C12-C13-C15-C16
22	N	607	CLA	C6-C7-C8-C10
22	N	610	CLA	C2-C3-C5-C6
22	O	310	CLA	C11-C10-C8-C7
22	Q	610	CLA	C12-C13-C15-C16
22	R	605	CLA	C12-C13-C15-C16
22	R	615	CLA	C11-C10-C8-C7
22	T	603	CLA	C6-C7-C8-C10
22	T	604	CLA	C6-C7-C8-C10
22	T	604	CLA	C11-C12-C13-C15
22	T	607	CLA	C11-C10-C8-C7
22	U	404	CLA	C11-C10-C8-C7
22	X	403	CLA	C11-C12-C13-C15
22	X	407	CLA	C11-C12-C13-C15
22	A	801	CLA	C11-C12-C13-C15
22	A	801	CLA	C12-C13-C15-C16
22	A	803	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
22	A	810	CLA	C11-C12-C13-C15
22	A	829	CLA	C11-C10-C8-C7
22	A	829	CLA	C11-C12-C13-C15
22	A	840	CLA	C12-C13-C15-C16
22	A	841	CLA	C11-C10-C8-C7
22	A	842	CLA	C6-C7-C8-C10
22	A	852	CLA	C6-C7-C8-C10
25	F	401	DGD	CDA-CEA-CFA-CGA
28	B	856	LMG	C30-C31-C32-C33
32	U	418	NEX	C9-C10-C11-C12
32	V	616	NEX	C9-C10-C11-C12
25	F	401	DGD	C2G-C3G-O3G-C1D
22	X	403	CLA	C8-C10-C11-C12
22	R	602	CLA	C2A-CAA-CBA-CGA
22	S	605	CLA	C2A-CAA-CBA-CGA
22	X	408	CLA	C2A-CAA-CBA-CGA
26	X	420	LHG	C23-C24-C25-C26
26	O	323	LHG	C30-C31-C32-C33
22	H	306	CLA	C6-C7-C8-C10
22	R	601	CLA	C5-C6-C7-C8
22	Q	611	CLA	CBA-CGA-O2A-C1
22	B	802	CLA	CAA-CBA-CGA-O2A
27	U	421	LMU	C5'-C4'-O1B-C1B
28	W	401	LMG	C41-C42-C43-C44
22	X	402	CLA	O1D-CGD-O2D-CED
31	W	422	CHL	C8-C10-C11-C12
22	S	604	CLA	O1A-CGA-O2A-C1
22	B	802	CLA	CAD-CBD-CGD-O2D
22	B	803	CLA	CAD-CBD-CGD-O2D
22	B	816	CLA	CAD-CBD-CGD-O2D
22	B	828	CLA	CAD-CBD-CGD-O2D
22	B	831	CLA	CAD-CBD-CGD-O2D
22	B	838	CLA	CAD-CBD-CGD-O2D
22	B	839	CLA	CAD-CBD-CGD-O2D
22	G	605	CLA	CAD-CBD-CGD-O2D
22	G	607	CLA	CAD-CBD-CGD-O2D
22	H	303	CLA	CAD-CBD-CGD-O2D
22	I	603	CLA	CAD-CBD-CGD-O2D
22	I	604	CLA	CAD-CBD-CGD-O2D
22	I	607	CLA	CAD-CBD-CGD-O2D
22	K	613	CLA	CAD-CBD-CGD-O2D
22	K	617	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
22	L	408	CLA	CAD-CBD-CGD-O2D
22	N	602	CLA	CAD-CBD-CGD-O2D
22	N	604	CLA	CAD-CBD-CGD-O2D
22	N	608	CLA	CAD-CBD-CGD-O2D
22	O	310	CLA	CAD-CBD-CGD-O2D
22	O	311	CLA	CAD-CBD-CGD-O2D
22	O	312	CLA	CAD-CBD-CGD-O2D
22	P	610	CLA	CAD-CBD-CGD-O2D
22	Q	601	CLA	CAD-CBD-CGD-O2D
22	Q	610	CLA	CAD-CBD-CGD-O2D
22	R	605	CLA	CAD-CBD-CGD-O2D
22	S	610	CLA	CAD-CBD-CGD-O2D
22	U	403	CLA	CAD-CBD-CGD-O2D
22	U	409	CLA	CAD-CBD-CGD-O2D
22	U	410	CLA	CAD-CBD-CGD-O2D
22	V	603	CLA	CAD-CBD-CGD-O2D
22	V	604	CLA	CAD-CBD-CGD-O2D
22	V	609	CLA	CAD-CBD-CGD-O2D
22	V	613	CLA	CAD-CBD-CGD-O2D
22	W	404	CLA	CAD-CBD-CGD-O2D
22	W	410	CLA	CAD-CBD-CGD-O2D
22	W	413	CLA	CAD-CBD-CGD-O2D
22	X	402	CLA	CAD-CBD-CGD-O2D
22	X	403	CLA	CAD-CBD-CGD-O2D
22	X	409	CLA	CAD-CBD-CGD-O2D
22	X	419	CLA	CAD-CBD-CGD-O2D
22	A	809	CLA	CAD-CBD-CGD-O2D
22	A	814	CLA	CAD-CBD-CGD-O2D
22	A	818	CLA	CAD-CBD-CGD-O2D
22	A	827	CLA	CAD-CBD-CGD-O2D
22	A	834	CLA	CAD-CBD-CGD-O2D
22	A	838	CLA	CAD-CBD-CGD-O2D
26	O	324	LHG	C6-C5-O7-C7
31	U	408	CHL	CAD-CBD-CGD-O2D
31	V	606	CHL	CAD-CBD-CGD-O2D
22	W	412	CLA	O1A-CGA-O2A-C1
22	K	608	CLA	CBA-CGA-O2A-C1
22	A	840	CLA	CBA-CGA-O2A-C1
22	L	405	CLA	O1D-CGD-O2D-CED
22	F	404	CLA	C4-C3-C5-C6
22	A	801	CLA	C4-C3-C5-C6
22	B	823	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
22	A	844	CLA	C2-C3-C5-C6
25	B	847	DGD	C1G-C2G-C3G-O3G
26	K	619	LHG	C4-C5-C6-O8
26	P	601	LHG	C2-C3-O3-P
26	X	420	LHG	C4-C5-C6-O8
28	G	616	LMG	C7-C8-C9-O8
28	I	615	LMG	O1-C7-C8-C9
28	K	618	LMG	C7-C8-C9-O8
22	B	830	CLA	C2C-C3C-CAC-CBC
26	P	601	LHG	O6-C4-C5-O7
22	T	611	CLA	C13-C15-C16-C17
22	A	807	CLA	C10-C11-C12-C13
22	B	808	CLA	C3-C5-C6-C7
22	R	604	CLA	C2A-CAA-CBA-CGA
22	W	414	CLA	C2A-CAA-CBA-CGA
22	K	602	CLA	C11-C12-C13-C15
22	T	607	CLA	C11-C12-C13-C15
26	O	324	LHG	C1-C2-C3-O3
22	F	405	CLA	CHA-CBD-CGD-O1D
22	F	405	CLA	CHA-CBD-CGD-O2D
22	G	601	CLA	CHA-CBD-CGD-O1D
22	G	601	CLA	CHA-CBD-CGD-O2D
22	G	603	CLA	CHA-CBD-CGD-O1D
22	I	609	CLA	CHA-CBD-CGD-O1D
22	I	609	CLA	CHA-CBD-CGD-O2D
22	L	404	CLA	CHA-CBD-CGD-O1D
22	L	404	CLA	CHA-CBD-CGD-O2D
22	N	602	CLA	CHA-CBD-CGD-O1D
22	O	305	CLA	CHA-CBD-CGD-O2D
22	P	602	CLA	CHA-CBD-CGD-O1D
22	P	602	CLA	CHA-CBD-CGD-O2D
22	P	608	CLA	CHA-CBD-CGD-O1D
22	P	608	CLA	CHA-CBD-CGD-O2D
22	Q	618	CLA	CHA-CBD-CGD-O1D
22	Q	618	CLA	CHA-CBD-CGD-O2D
22	R	607	CLA	CHA-CBD-CGD-O1D
22	S	601	CLA	CHA-CBD-CGD-O1D
22	S	601	CLA	CHA-CBD-CGD-O2D
22	T	610	CLA	CHA-CBD-CGD-O1D
22	T	610	CLA	CHA-CBD-CGD-O2D
22	U	404	CLA	CHA-CBD-CGD-O1D
22	V	617	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
22	X	410	CLA	CHA-CBD-CGD-O2D
22	A	810	CLA	CHA-CBD-CGD-O1D
22	A	810	CLA	CHA-CBD-CGD-O2D
22	A	824	CLA	CHA-CBD-CGD-O1D
22	A	825	CLA	CHA-CBD-CGD-O1D
22	A	835	CLA	CHA-CBD-CGD-O1D
22	A	835	CLA	CHA-CBD-CGD-O2D
22	A	840	CLA	CHA-CBD-CGD-O1D
22	A	840	CLA	CHA-CBD-CGD-O2D
22	A	844	CLA	CHA-CBD-CGD-O1D
22	A	844	CLA	CHA-CBD-CGD-O2D
22	L	402	CLA	O1A-CGA-O2A-C1
22	A	836	CLA	O1A-CGA-O2A-C1
25	O	304	DGD	O2G-C2G-C3G-O3G
26	L	416	LHG	O7-C5-C6-O8
26	R	614	LHG	O7-C5-C6-O8
26	W	420	LHG	O7-C5-C6-O8
28	F	408	LMG	O1-C7-C8-O7
28	I	615	LMG	O1-C7-C8-O7
28	K	601	LMG	O1-C7-C8-O7
28	K	601	LMG	O7-C8-C9-O8
28	K	618	LMG	O1-C7-C8-O7
28	G	616	LMG	O6-C5-C6-O5
27	B	854	LMU	C1-C2-C3-C4
25	B	847	DGD	C5A-C6A-C7A-C8A
26	X	420	LHG	C31-C32-C33-C34
26	A	845	LHG	C13-C14-C15-C16
28	H	319	LMG	C33-C34-C35-C36
22	H	305	CLA	O1A-CGA-O2A-C1
26	W	420	LHG	C9-C10-C11-C12
28	B	852	LMG	C14-C15-C16-C17
28	K	618	LMG	C35-C36-C37-C38
30	F	407	SQD	C25-C26-C27-C28
22	B	821	CLA	C11-C12-C13-C15
26	O	323	LHG	C12-C13-C14-C15
22	K	604	CLA	C3-C5-C6-C7
22	L	402	CLA	C13-C15-C16-C17
22	A	812	CLA	C4-C3-C5-C6
22	A	844	CLA	C4-C3-C5-C6
22	U	414	CLA	O1A-CGA-O2A-C1
28	I	614	LMG	C4-C5-C6-O5
22	A	822	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
22	B	859	CLA	O1D-CGD-O2D-CED
24	B	841	DD6	C27-C29-C30-C31
24	G	613	DD6	C27-C29-C30-C31
24	H	314	DD6	C27-C29-C30-C31
24	H	315	DD6	C27-C29-C30-C31
24	O	316	DD6	C27-C29-C30-C31
24	T	612	DD6	C27-C29-C30-C31
24	V	614	DD6	C27-C29-C30-C31
24	V	615	DD6	C27-C29-C30-C31
24	W	417	DD6	C27-C29-C30-C31
24	X	414	DD6	C27-C29-C30-C31
24	X	415	DD6	C27-C29-C30-C31
24	A	847	DD6	C27-C29-C30-C31
24	A	858	DD6	C27-C29-C30-C31
22	O	315	CLA	CBA-CGA-O2A-C1
26	L	416	LHG	C28-C29-C30-C31
28	H	317	LMG	O9-C10-O7-C8
22	B	817	CLA	C11-C10-C8-C9
22	B	828	CLA	C6-C7-C8-C9
22	K	603	CLA	C11-C10-C8-C9
22	K	604	CLA	C6-C7-C8-C9
22	O	313	CLA	C11-C10-C8-C9
22	Q	610	CLA	C14-C13-C15-C16
22	T	605	CLA	C11-C12-C13-C14
22	A	817	CLA	C11-C10-C8-C9
31	W	422	CHL	C11-C12-C13-C14
33	A	802	CL0	C6-C7-C8-C9
22	B	820	CLA	O1D-CGD-O2D-CED
26	K	619	LHG	C12-C13-C14-C15
28	I	615	LMG	C14-C15-C16-C17
22	F	404	CLA	CBD-CGD-O2D-CED
28	W	401	LMG	O6-C5-C6-O5
22	O	313	CLA	O1D-CGD-O2D-CED
27	U	424	LMU	C2-C3-C4-C5
28	F	408	LMG	C33-C34-C35-C36
26	K	619	LHG	C25-C26-C27-C28
22	B	804	CLA	C2A-CAA-CBA-CGA
22	K	611	CLA	C2A-CAA-CBA-CGA
22	L	411	CLA	C2A-CAA-CBA-CGA
22	A	804	CLA	C2A-CAA-CBA-CGA
22	A	842	CLA	C2A-CAA-CBA-CGA
26	H	316	LHG	O8-C23-C24-C25

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Mol	Chain	Res	Type	Atoms
22	W	410	CLA	C5-C6-C7-C8
22	Q	611	CLA	O1A-CGA-O2A-C1
24	F	406	DD6	C12-C11-C13-C14
24	X	416	DD6	C7-C6-C8-C9
24	X	416	DD6	C5-C6-C8-C9
22	B	822	CLA	C1A-C2A-CAA-CBA
22	B	826	CLA	C1A-C2A-CAA-CBA
22	H	306	CLA	C1A-C2A-CAA-CBA
22	I	607	CLA	C1A-C2A-CAA-CBA
22	O	310	CLA	C1A-C2A-CAA-CBA
22	P	605	CLA	C1A-C2A-CAA-CBA
22	U	411	CLA	C1A-C2A-CAA-CBA
22	V	608	CLA	C1A-C2A-CAA-CBA
22	X	409	CLA	C1A-C2A-CAA-CBA
22	A	813	CLA	C1A-C2A-CAA-CBA
22	A	823	CLA	C1A-C2A-CAA-CBA
31	W	408	CHL	C1A-C2A-CAA-CBA
22	K	603	CLA	C11-C12-C13-C15
22	W	411	CLA	C11-C12-C13-C14
22	A	821	CLA	CBD-CGD-O2D-CED
28	J	101	LMG	C36-C37-C38-C39
22	A	814	CLA	C5-C6-C7-C8
26	O	321	LHG	C4-O6-P-O3
25	B	847	DGD	CEB-CFB-CGB-CHB
26	A	845	LHG	C10-C11-C12-C13
22	S	601	CLA	O1D-CGD-O2D-CED
28	J	101	LMG	C12-C13-C14-C15
22	B	823	CLA	C13-C15-C16-C17
22	L	406	CLA	C13-C15-C16-C17
22	X	404	CLA	C3-C5-C6-C7
26	O	321	LHG	C2-C3-O3-P
26	U	419	LHG	C5-C4-O6-P
22	Q	604	CLA	C2-C3-C5-C6
27	B	857	LMU	C6-C7-C8-C9
26	B	848	LHG	C4-O6-P-O5
26	B	851	LHG	C3-O3-P-O4
26	K	616	LHG	C3-O3-P-O5
26	K	619	LHG	C3-O3-P-O5
26	K	619	LHG	C4-O6-P-O5
26	L	416	LHG	C3-O3-P-O4
26	N	616	LHG	C3-O3-P-O4
26	O	318	LHG	C4-O6-P-O5

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Mol	Chain	Res	Type	Atoms
26	O	323	LHG	C3-O3-P-O4
26	O	323	LHG	C4-O6-P-O4
26	U	419	LHG	C3-O3-P-O6
26	W	420	LHG	C3-O3-P-O4
26	A	845	LHG	C3-O3-P-O4
26	A	845	LHG	C4-O6-P-O4
22	O	313	CLA	C16-C17-C18-C20
22	X	409	CLA	C15-C16-C17-C18
22	A	852	CLA	C13-C15-C16-C17
26	O	324	LHG	O6-C4-C5-C6
26	T	614	LHG	O6-C4-C5-C6
26	T	614	LHG	C29-C30-C31-C32
22	T	609	CLA	O1D-CGD-O2D-CED
22	A	842	CLA	CAA-CBA-CGA-O2A
22	G	610	CLA	C2A-CAA-CBA-CGA
22	A	807	CLA	C2A-CAA-CBA-CGA
22	A	841	CLA	C2A-CAA-CBA-CGA
22	A	840	CLA	O1A-CGA-O2A-C1
22	S	604	CLA	C11-C12-C13-C15
22	T	607	CLA	C11-C12-C13-C14
28	L	401	LMG	C37-C38-C39-C40
22	F	405	CLA	CAD-CBD-CGD-O1D
22	L	404	CLA	CAD-CBD-CGD-O1D
22	N	605	CLA	CAD-CBD-CGD-O1D
22	P	602	CLA	CAD-CBD-CGD-O1D
22	Q	606	CLA	CAD-CBD-CGD-O1D
22	T	610	CLA	CAD-CBD-CGD-O1D
22	T	611	CLA	CAD-CBD-CGD-O1D
22	W	419	CLA	CAD-CBD-CGD-O1D
22	A	844	CLA	CAD-CBD-CGD-O1D
26	O	323	LHG	O8-C23-C24-C25
26	X	420	LHG	C34-C35-C36-C37
22	O	306	CLA	C3-C5-C6-C7
26	T	614	LHG	C26-C27-C28-C29
22	A	833	CLA	O1D-CGD-O2D-CED
22	L	417	CLA	CBA-CGA-O2A-C1
28	U	402	LMG	C39-C40-C41-C42
22	B	807	CLA	C16-C17-C18-C20
22	B	833	CLA	C16-C17-C18-C19
22	H	308	CLA	C11-C12-C13-C14
22	S	602	CLA	C11-C12-C13-C15
22	H	313	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
22	S	602	CLA	C4-C3-C5-C6
22	B	805	CLA	C12-C13-C15-C16
22	B	806	CLA	C11-C10-C8-C7
22	B	807	CLA	C12-C13-C15-C16
22	B	814	CLA	C3A-C2A-CAA-CBA
22	B	828	CLA	C6-C7-C8-C10
22	B	832	CLA	C11-C12-C13-C15
22	B	834	CLA	C12-C13-C15-C16
22	H	313	CLA	C6-C7-C8-C10
22	I	601	CLA	C6-C7-C8-C10
22	K	608	CLA	C11-C10-C8-C7
22	L	409	CLA	C11-C10-C8-C7
22	N	606	CLA	C11-C10-C8-C7
22	N	606	CLA	C12-C13-C15-C16
22	R	605	CLA	C11-C12-C13-C15
22	R	610	CLA	C11-C10-C8-C7
22	T	611	CLA	C12-C13-C15-C16
22	A	816	CLA	C11-C10-C8-C7
22	A	817	CLA	C11-C12-C13-C15
22	A	817	CLA	C12-C13-C15-C16
22	A	820	CLA	C12-C13-C15-C16
22	A	841	CLA	C11-C12-C13-C15
33	A	802	CL0	C6-C7-C8-C10
28	I	615	LMG	C13-C14-C15-C16
28	U	402	LMG	C19-C20-C21-C22
22	W	409	CLA	C3-C5-C6-C7
22	K	617	CLA	C5-C6-C7-C8
22	A	808	CLA	C5-C6-C7-C8
28	H	319	LMG	C32-C33-C34-C35
22	O	315	CLA	O1A-CGA-O2A-C1
22	H	303	CLA	C2A-CAA-CBA-CGA
22	Q	604	CLA	C2A-CAA-CBA-CGA
22	T	604	CLA	C16-C17-C18-C20
22	U	404	CLA	C16-C17-C18-C20
27	U	422	LMU	C4'-C5'-C6'-O6'
28	B	856	LMG	C40-C41-C42-C43
26	S	613	LHG	O8-C23-C24-C25
26	U	419	LHG	C4-C5-C6-O8
28	F	408	LMG	O1-C7-C8-C9
28	H	317	LMG	O1-C7-C8-C9
28	K	618	LMG	O1-C7-C8-C9
28	T	616	LMG	O1-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
28	A	855	LMG	C7-C8-C9-O8
22	J	102	CLA	CBD-CGD-O2D-CED
28	G	616	LMG	O1-C7-C8-O7
28	U	402	LMG	O1-C7-C8-O7
28	A	855	LMG	O7-C8-C9-O8
30	K	621	SQD	O47-C45-C46-O48
28	Q	602	LMG	C31-C32-C33-C34
22	B	859	CLA	C10-C11-C12-C13
25	O	304	DGD	C7B-C8B-C9B-CAB
26	A	845	LHG	C27-C28-C29-C30
27	K	620	LMU	C2-C3-C4-C5
27	J	104	LMU	C9-C10-C11-C12
28	W	401	LMG	C8-C7-O1-C1
22	X	410	CLA	C8-C10-C11-C12
22	A	824	CLA	C5-C6-C7-C8
22	T	605	CLA	C3-C5-C6-C7
28	K	622	LMG	C31-C32-C33-C34
22	K	608	CLA	O1A-CGA-O2A-C1
22	N	601	CLA	O1D-CGD-O2D-CED
22	B	828	CLA	C4-C3-C5-C6
28	W	401	LMG	C29-C28-O8-C9
27	L	420	LMU	C3-C4-C5-C6
22	W	402	CLA	C2-C3-C5-C6
22	A	812	CLA	C2-C3-C5-C6
22	V	609	CLA	C5-C6-C7-C8
22	B	816	CLA	C11-C10-C8-C9
22	B	818	CLA	C11-C10-C8-C9
22	B	821	CLA	C6-C7-C8-C9
22	G	606	CLA	C6-C7-C8-C9
22	I	601	CLA	C11-C10-C8-C9
22	L	403	CLA	C6-C7-C8-C9
22	O	310	CLA	C11-C10-C8-C9
22	O	313	CLA	C6-C7-C8-C9
22	O	313	CLA	C14-C13-C15-C16
22	R	603	CLA	C6-C7-C8-C9
22	R	615	CLA	C11-C10-C8-C9
22	U	414	CLA	C6-C7-C8-C9
22	W	414	CLA	C14-C13-C15-C16
22	X	412	CLA	C11-C12-C13-C14
22	A	804	CLA	C11-C10-C8-C9
22	A	807	CLA	C11-C10-C8-C9
22	A	828	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
22	A	841	CLA	C11-C10-C8-C9
25	B	847	DGD	CAA-CBA-CCA-CDA
22	H	306	CLA	C6-C7-C8-C9
27	L	419	LMU	O5B-C1B-O1B-C4'
22	K	604	CLA	CAA-CBA-CGA-O2A
22	B	825	CLA	C2A-CAA-CBA-CGA
22	S	604	CLA	CAA-CBA-CGA-O2A
22	R	610	CLA	C13-C15-C16-C17
24	A	858	DD6	C1-C24-C25-C26
22	U	404	CLA	C8-C10-C11-C12
27	L	420	LMU	C2'-C1'-O1'-C1
26	A	845	LHG	C16-C17-C18-C19
22	A	819	CLA	CAA-CBA-CGA-O2A
27	U	422	LMU	C1-C2-C3-C4
28	K	618	LMG	C13-C14-C15-C16
22	O	313	CLA	C10-C11-C12-C13
28	I	615	LMG	C19-C20-C21-C22
22	L	411	CLA	C4-C3-C5-C6
22	K	607	CLA	C2C-C3C-CAC-CBC
22	B	827	CLA	C5-C6-C7-C8
28	L	401	LMG	C12-C13-C14-C15
28	L	401	LMG	C14-C15-C16-C17
27	A	854	LMU	C7-C8-C9-C10
28	T	616	LMG	C17-C18-C19-C20
22	F	403	CLA	C13-C15-C16-C17
22	A	811	CLA	C5-C6-C7-C8
26	Q	616	LHG	O6-C4-C5-C6
26	R	614	LHG	C1-C2-C3-O3
22	B	812	CLA	C2A-CAA-CBA-CGA
22	H	311	CLA	C2A-CAA-CBA-CGA
22	V	612	CLA	C2A-CAA-CBA-CGA
22	A	801	CLA	C2A-CAA-CBA-CGA
22	A	844	CLA	C2A-CAA-CBA-CGA
22	G	606	CLA	C2-C1-O2A-CGA
22	I	606	CLA	C2-C1-O2A-CGA
22	L	406	CLA	C2-C1-O2A-CGA
22	N	606	CLA	C2-C1-O2A-CGA
22	X	405	CLA	C2-C1-O2A-CGA
22	A	822	CLA	C2-C1-O2A-CGA
26	A	846	LHG	C13-C14-C15-C16
22	L	417	CLA	O1A-CGA-O2A-C1
28	W	401	LMG	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
28	A	855	LMG	C31-C32-C33-C34
22	F	404	CLA	CBA-CGA-O2A-C1
22	U	401	CLA	C2-C3-C5-C6
25	O	304	DGD	CEA-CFA-CGA-CHA
26	B	851	LHG	C16-C17-C18-C19
22	S	615	CLA	O1A-CGA-O2A-C1
26	P	601	LHG	C26-C27-C28-C29
27	K	620	LMU	O5'-C1'-O1'-C1
22	B	820	CLA	C2A-CAA-CBA-CGA
22	T	605	CLA	C10-C11-C12-C13
26	X	420	LHG	C3-O3-P-O6
28	B	856	LMG	C11-C12-C13-C14
28	H	319	LMG	C11-C12-C13-C14
25	F	401	DGD	C4B-C5B-C6B-C7B
26	Q	616	LHG	C9-C10-C11-C12
27	A	857	LMU	C4'-C5'-C6'-O6'
22	F	404	CLA	O1D-CGD-O2D-CED
22	Q	609	CLA	C8-C10-C11-C12
26	N	616	LHG	C27-C28-C29-C30
26	R	614	LHG	C24-C23-O8-C6
28	U	423	LMG	O1-C7-C8-C9
22	B	826	CLA	C4-C3-C5-C6
22	K	611	CLA	C4-C3-C5-C6
22	B	816	CLA	C11-C10-C8-C7
22	B	825	CLA	C11-C12-C13-C15
22	B	828	CLA	C11-C10-C8-C7
22	B	859	CLA	C6-C7-C8-C10
22	H	305	CLA	C11-C10-C8-C7
22	K	602	CLA	C6-C7-C8-C10
22	K	605	CLA	C11-C12-C13-C15
22	V	612	CLA	C12-C13-C15-C16
22	W	404	CLA	C6-C7-C8-C10
22	A	807	CLA	C11-C10-C8-C7
22	A	832	CLA	C2-C3-C5-C6
22	A	842	CLA	C12-C13-C15-C16
22	A	844	CLA	C3-C5-C6-C7
22	B	805	CLA	C14-C13-C15-C16
22	B	813	CLA	C6-C7-C8-C9
22	B	816	CLA	C14-C13-C15-C16
22	B	832	CLA	C11-C12-C13-C14
22	H	313	CLA	C6-C7-C8-C9
22	K	608	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
22	R	601	CLA	C14-C13-C15-C16
22	R	605	CLA	C14-C13-C15-C16
22	T	603	CLA	C6-C7-C8-C9
22	W	404	CLA	C6-C7-C8-C9
22	A	801	CLA	C14-C13-C15-C16
22	A	810	CLA	C11-C10-C8-C9
22	A	816	CLA	C11-C10-C8-C9
22	A	820	CLA	C14-C13-C15-C16
22	R	607	CLA	C10-C11-C12-C13
22	J	102	CLA	O1D-CGD-O2D-CED
24	P	612	DD6	C11-C10-C9-C8
22	S	607	CLA	C11-C12-C13-C15
28	J	101	LMG	C10-C11-C12-C13
28	I	614	LMG	C15-C16-C17-C18
22	A	821	CLA	O1D-CGD-O2D-CED
28	F	408	LMG	C19-C20-C21-C22
22	F	404	CLA	O1A-CGA-O2A-C1
26	R	614	LHG	O10-C23-O8-C6
24	V	615	DD6	C7-C6-C8-C9
22	B	807	CLA	C16-C17-C18-C19
26	G	614	LHG	O1-C1-C2-C3
26	N	614	LHG	O1-C1-C2-C3
26	B	851	LHG	C2-C3-O3-P
26	K	619	LHG	C2-C3-O3-P
26	Q	616	LHG	C2-C3-O3-P
25	B	847	DGD	CBB-CCB-CDB-CEB
28	B	856	LMG	C29-C30-C31-C32
26	A	845	LHG	C23-C24-C25-C26
22	K	605	CLA	C10-C11-C12-C13
22	U	414	CLA	C5-C6-C7-C8
22	X	409	CLA	C10-C11-C12-C13
28	U	402	LMG	C37-C38-C39-C40
22	G	603	CLA	C11-C10-C8-C7
22	I	603	CLA	C11-C10-C8-C7
22	V	604	CLA	C11-C10-C8-C7
22	A	816	CLA	C12-C13-C15-C16
22	K	604	CLA	C4-C3-C5-C6
22	L	411	CLA	C2-C3-C5-C6
28	G	616	LMG	C13-C14-C15-C16
22	S	615	CLA	CBA-CGA-O2A-C1
25	F	401	DGD	C9A-CAA-CBA-CCA
27	F	409	LMU	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
22	A	829	CLA	CBD-CGD-O2D-CED
22	A	801	CLA	C2C-C3C-CAC-CBC
25	O	304	DGD	C7A-C8A-C9A-CAA
22	L	403	CLA	C2A-CAA-CBA-CGA
22	A	829	CLA	C2A-CAA-CBA-CGA
22	A	839	CLA	C2A-CAA-CBA-CGA
28	K	622	LMG	C28-C29-C30-C31
28	A	855	LMG	C28-C29-C30-C31
22	A	826	CLA	C10-C11-C12-C13
22	K	607	CLA	C4C-C3C-CAC-CBC
28	G	616	LMG	C15-C16-C17-C18
22	H	310	CLA	CAA-CBA-CGA-O2A
22	A	820	CLA	C2C-C3C-CAC-CBC
31	W	408	CHL	C3-C5-C6-C7
22	B	804	CLA	C4-C3-C5-C6
22	X	409	CLA	C4-C3-C5-C6
22	A	829	CLA	C4-C3-C5-C6
22	P	611	CLA	CAA-CBA-CGA-O1A
22	B	804	CLA	C2-C3-C5-C6
22	K	604	CLA	C2-C3-C5-C6
22	W	409	CLA	C2-C3-C5-C6
25	F	401	DGD	C2A-C3A-C4A-C5A
28	B	852	LMG	C23-C24-C25-C26
22	P	605	CLA	CAA-CBA-CGA-O1A
22	B	836	CLA	C2-C1-O2A-CGA
22	G	603	CLA	C2-C1-O2A-CGA
22	N	603	CLA	C2-C1-O2A-CGA
22	N	607	CLA	C2-C1-O2A-CGA
22	R	602	CLA	C2-C1-O2A-CGA
22	Q	610	CLA	C10-C11-C12-C13
28	I	615	LMG	C2-C1-O1-C7
26	A	846	LHG	C30-C31-C32-C33
22	B	803	CLA	C2A-CAA-CBA-CGA
22	H	304	CLA	C2A-CAA-CBA-CGA
22	K	610	CLA	C2A-CAA-CBA-CGA
22	L	412	CLA	C2A-CAA-CBA-CGA
22	N	602	CLA	C2A-CAA-CBA-CGA
22	R	610	CLA	C2A-CAA-CBA-CGA
22	S	602	CLA	C2A-CAA-CBA-CGA
22	U	415	CLA	C2A-CAA-CBA-CGA
22	W	404	CLA	C2A-CAA-CBA-CGA
22	A	815	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
28	T	616	LMG	O1-C7-C8-O7
26	X	420	LHG	C2-C3-O3-P
22	H	309	CLA	C3A-C2A-CAA-CBA
22	P	611	CLA	CAA-CBA-CGA-O2A
22	S	602	CLA	C11-C12-C13-C14
28	F	408	LMG	C34-C35-C36-C37
22	B	822	CLA	C4-C3-C5-C6
22	W	409	CLA	C4-C3-C5-C6
22	B	809	CLA	C11-C10-C8-C9
22	B	810	CLA	C6-C7-C8-C9
22	K	604	CLA	C14-C13-C15-C16
22	K	605	CLA	C14-C13-C15-C16
22	K	608	CLA	C11-C12-C13-C14
22	O	308	CLA	C11-C10-C8-C9
22	T	611	CLA	C14-C13-C15-C16
22	U	405	CLA	C11-C10-C8-C9
22	U	411	CLA	C6-C7-C8-C9
22	W	410	CLA	C6-C7-C8-C9
22	X	408	CLA	C11-C10-C8-C9
22	A	808	CLA	C11-C12-C13-C14
22	A	828	CLA	C11-C12-C13-C14
22	A	831	CLA	C6-C7-C8-C9
22	A	839	CLA	C11-C12-C13-C14
22	W	413	CLA	CAA-CBA-CGA-O2A
22	V	608	CLA	CBA-CGA-O2A-C1
26	B	851	LHG	C17-C18-C19-C20
22	S	608	CLA	O1D-CGD-O2D-CED
26	L	416	LHG	C26-C27-C28-C29
28	A	855	LMG	C34-C35-C36-C37
21	B	843	BCR	C11-C10-C9-C34
21	B	843	BCR	C20-C21-C22-C37
21	A	851	BCR	C11-C10-C9-C34
21	A	851	BCR	C16-C17-C18-C36
24	F	406	DD6	C-C1-C2-C3
24	P	612	DD6	C-C1-C2-C3
28	B	856	LMG	C7-C8-C9-O8
32	U	418	NEX	C39-C29-C30-C31
32	V	616	NEX	C39-C29-C30-C31
26	N	614	LHG	C25-C26-C27-C28
22	P	604	CLA	CAA-CBA-CGA-O2A
22	B	819	CLA	C2A-CAA-CBA-CGA
28	J	101	LMG	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
28	Q	602	LMG	C33-C34-C35-C36
22	T	604	CLA	C16-C17-C18-C19
22	B	823	CLA	O2A-C1-C2-C3
31	W	422	CHL	O2A-C1-C2-C3
26	L	416	LHG	C24-C23-O8-C6
22	A	829	CLA	O1D-CGD-O2D-CED
28	G	616	LMG	O6-C1-O1-C7
22	W	404	CLA	C10-C11-C12-C13
22	P	604	CLA	CAA-CBA-CGA-O1A
26	O	321	LHG	C30-C31-C32-C33
28	W	401	LMG	C37-C38-C39-C40
22	B	838	CLA	CBD-CGD-O2D-CED
22	B	814	CLA	C1A-C2A-CAA-CBA
22	B	821	CLA	C1A-C2A-CAA-CBA
22	H	303	CLA	C1A-C2A-CAA-CBA
22	R	605	CLA	C1A-C2A-CAA-CBA
22	S	602	CLA	C1A-C2A-CAA-CBA
22	V	617	CLA	C1A-C2A-CAA-CBA
22	W	415	CLA	C1A-C2A-CAA-CBA
22	A	804	CLA	C1A-C2A-CAA-CBA
22	A	840	CLA	C1A-C2A-CAA-CBA
22	B	813	CLA	C11-C10-C8-C7
22	B	817	CLA	C11-C12-C13-C15
22	B	833	CLA	C6-C7-C8-C10
22	B	833	CLA	C12-C13-C15-C16
22	F	403	CLA	C6-C7-C8-C10
22	F	403	CLA	C12-C13-C15-C16
22	K	604	CLA	C11-C10-C8-C7
22	R	607	CLA	C6-C7-C8-C10
22	X	403	CLA	C12-C13-C15-C16
22	A	813	CLA	C11-C12-C13-C15
22	A	817	CLA	C11-C10-C8-C7
22	A	821	CLA	C11-C12-C13-C15
22	A	822	CLA	C6-C7-C8-C10
22	A	826	CLA	C12-C13-C15-C16
31	W	422	CHL	C11-C12-C13-C15
22	B	817	CLA	C10-C11-C12-C13
22	P	603	CLA	CAA-CBA-CGA-O1A
22	G	601	CLA	CAA-CBA-CGA-O2A
22	N	608	CLA	CAA-CBA-CGA-O2A
25	F	401	DGD	CFA-CGA-CHA-CIA
27	X	418	LMU	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
22	B	824	CLA	C16-C17-C18-C19
28	K	622	LMG	C33-C34-C35-C36
28	L	401	LMG	C18-C19-C20-C21
22	B	824	CLA	C3-C5-C6-C7
22	B	835	CLA	C2A-CAA-CBA-CGA
22	G	602	CLA	C2A-CAA-CBA-CGA
22	O	307	CLA	C2A-CAA-CBA-CGA
22	O	313	CLA	C2A-CAA-CBA-CGA
22	W	404	CLA	C8-C10-C11-C12
22	A	829	CLA	C8-C10-C11-C12
22	N	610	CLA	C2C-C3C-CAC-CBC
22	A	837	CLA	CBA-CGA-O2A-C1
26	O	324	LHG	C33-C34-C35-C36
22	K	609	CLA	C11-C12-C13-C15
22	H	304	CLA	CAA-CBA-CGA-O1A
22	H	304	CLA	CAA-CBA-CGA-O2A
22	W	413	CLA	CAA-CBA-CGA-O1A
22	B	806	CLA	C4-C3-C5-C6
22	U	414	CLA	C4-C3-C5-C6
22	X	402	CLA	C4-C3-C5-C6
22	A	842	CLA	C4-C3-C5-C6
22	B	825	CLA	C10-C11-C12-C13
26	A	846	LHG	C7-C8-C9-C10
22	K	611	CLA	CBD-CGD-O2D-CED
22	B	806	CLA	C2-C3-C5-C6
22	Q	610	CLA	C2-C3-C5-C6
22	W	411	CLA	C2-C3-C5-C6
22	K	611	CLA	O1D-CGD-O2D-CED
22	B	819	CLA	C5-C6-C7-C8
26	B	848	LHG	O10-C23-C24-C25
22	N	608	CLA	CAA-CBA-CGA-O1A
22	P	603	CLA	CAA-CBA-CGA-O2A
22	V	613	CLA	CAA-CBA-CGA-O2A
26	R	614	LHG	C12-C13-C14-C15
21	B	843	BCR	C11-C10-C9-C8
21	B	843	BCR	C20-C21-C22-C23
21	A	851	BCR	C11-C10-C9-C8
21	A	851	BCR	C16-C17-C18-C19
24	F	406	DD6	C24-C1-C2-C3
24	P	612	DD6	C24-C1-C2-C3
27	L	420	LMU	O5'-C1'-O1'-C1
22	T	609	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
25	B	847	DGD	O2G-C2G-C3G-O3G
26	X	420	LHG	O7-C5-C6-O8
28	B	852	LMG	O1-C7-C8-O7
22	B	828	CLA	CBA-CGA-O2A-C1
23	A	843	PQN	C18-C20-C21-C22
22	B	838	CLA	O1D-CGD-O2D-CED
22	G	601	CLA	CAA-CBA-CGA-O1A
22	P	605	CLA	CAA-CBA-CGA-O2A
22	S	601	CLA	CAA-CBA-CGA-O2A
22	S	608	CLA	CAA-CBA-CGA-O2A
26	L	416	LHG	C19-C20-C21-C22
27	T	618	LMU	C3-C4-C5-C6
22	B	818	CLA	C16-C17-C18-C19
22	A	828	CLA	C16-C17-C18-C20
28	H	322	LMG	O6-C1-O1-C7
22	A	817	CLA	C5-C6-C7-C8
26	K	616	LHG	C12-C13-C14-C15
26	O	321	LHG	C17-C18-C19-C20
26	L	416	LHG	O10-C23-O8-C6
22	H	310	CLA	CAA-CBA-CGA-O1A
22	T	609	CLA	CAA-CBA-CGA-O2A
22	A	801	CLA	C3-C5-C6-C7
22	I	603	CLA	C2-C1-O2A-CGA
22	U	414	CLA	C2-C1-O2A-CGA
22	B	822	CLA	C2-C3-C5-C6
22	B	826	CLA	C2-C3-C5-C6
22	B	828	CLA	O1A-CGA-O2A-C1
22	S	601	CLA	CAA-CBA-CGA-O1A
25	O	304	DGD	CFA-CGA-CHA-CIA
22	I	602	CLA	C11-C10-C8-C9
22	R	615	CLA	C6-C7-C8-C9
22	A	812	CLA	C6-C7-C8-C9
22	A	824	CLA	C11-C12-C13-C14
22	A	836	CLA	C6-C7-C8-C9
22	H	303	CLA	C5-C6-C7-C8
22	S	608	CLA	CBD-CGD-O2D-CED
22	V	608	CLA	O1A-CGA-O2A-C1
26	K	616	LHG	C10-C11-C12-C13
22	R	605	CLA	O1A-CGA-O2A-C1
22	A	808	CLA	C15-C16-C17-C18
22	H	309	CLA	C2A-CAA-CBA-CGA
22	I	602	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
22	O	310	CLA	C2A-CAA-CBA-CGA
22	X	403	CLA	C2A-CAA-CBA-CGA
22	H	305	CLA	C11-C12-C13-C14
22	A	840	CLA	C16-C17-C18-C20
22	B	838	CLA	CAA-CBA-CGA-O1A
22	P	609	CLA	CAA-CBA-CGA-O2A
22	A	837	CLA	O1A-CGA-O2A-C1
28	K	601	LMG	O10-C28-O8-C9
21	B	844	BCR	C23-C24-C25-C30
22	B	804	CLA	CAA-CBA-CGA-O2A
22	B	838	CLA	CAA-CBA-CGA-O2A
22	V	613	CLA	CAA-CBA-CGA-O1A
22	H	311	CLA	C15-C16-C17-C18
27	H	320	LMU	C4-C5-C6-C7
32	U	418	NEX	C33-C34-C35-C15
32	V	616	NEX	C33-C34-C35-C15
22	B	823	CLA	C4-C3-C5-C6
22	Q	610	CLA	C4-C3-C5-C6
22	T	604	CLA	C4-C3-C5-C6
22	B	804	CLA	C16-C17-C18-C20
22	S	607	CLA	C11-C12-C13-C14
26	Q	616	LHG	C28-C29-C30-C31
22	B	828	CLA	C2-C3-C5-C6
22	I	601	CLA	C2-C3-C5-C6
22	K	611	CLA	C2-C3-C5-C6
22	N	606	CLA	C2-C3-C5-C6
22	S	603	CLA	CAA-CBA-CGA-O2A
28	G	616	LMG	C8-C7-O1-C1
28	U	402	LMG	C8-C7-O1-C1
22	G	606	CLA	C15-C16-C17-C18
22	W	419	CLA	CAA-CBA-CGA-O2A
27	B	854	LMU	C4-C5-C6-C7
25	B	847	DGD	C3A-C4A-C5A-C6A
28	B	856	LMG	C33-C34-C35-C36
22	W	412	CLA	C8-C10-C11-C12
22	A	852	CLA	C8-C10-C11-C12
22	G	603	CLA	C11-C10-C8-C9
28	B	856	LMG	C14-C15-C16-C17
22	W	419	CLA	CAA-CBA-CGA-O1A
22	A	834	CLA	CAA-CBA-CGA-O2A
22	O	306	CLA	C2A-CAA-CBA-CGA
26	N	616	LHG	C30-C31-C32-C33

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Mol	Chain	Res	Type	Atoms
28	T	616	LMG	C35-C36-C37-C38
22	K	607	CLA	CBD-CGD-O2D-CED
22	R	605	CLA	CBA-CGA-O2A-C1
28	J	101	LMG	C42-C43-C44-C45
22	A	824	CLA	C3-C5-C6-C7
22	G	605	CLA	CAA-CBA-CGA-O2A
22	Q	618	CLA	CAA-CBA-CGA-O2A
22	S	608	CLA	CAA-CBA-CGA-O1A
28	I	614	LMG	C33-C34-C35-C36
22	X	404	CLA	C10-C11-C12-C13
22	N	606	CLA	C4-C3-C5-C6
22	O	306	CLA	C4-C3-C5-C6
22	Q	612	CLA	C4-C3-C5-C6
22	A	803	CLA	C4-C3-C5-C6
22	I	606	CLA	O1D-CGD-O2D-CED
22	F	404	CLA	C2-C3-C5-C6
22	H	311	CLA	C11-C12-C13-C15
22	I	606	CLA	C11-C10-C8-C7
22	L	407	CLA	C2-C3-C5-C6
22	U	405	CLA	C11-C10-C8-C7
22	X	404	CLA	C11-C10-C8-C7
22	A	801	CLA	C2-C3-C5-C6
22	A	824	CLA	C12-C13-C15-C16
22	A	829	CLA	C12-C13-C15-C16
22	X	407	CLA	C10-C11-C12-C13
22	N	610	CLA	C4C-C3C-CAC-CBC
27	L	420	LMU	C4-C5-C6-C7
27	O	322	LMU	C2'-C1'-O1'-C1
22	X	404	CLA	C11-C12-C13-C15
28	H	322	LMG	C12-C13-C14-C15
28	B	856	LMG	O7-C8-C9-O8
26	W	420	LHG	C24-C23-O8-C6
26	P	601	LHG	O10-C23-C24-C25
22	B	830	CLA	C13-C15-C16-C17
22	T	602	CLA	C5-C6-C7-C8
22	G	609	CLA	CAA-CBA-CGA-O2A
22	L	412	CLA	CAA-CBA-CGA-O2A
22	O	307	CLA	CAA-CBA-CGA-O2A
22	U	403	CLA	CAA-CBA-CGA-O2A
22	X	411	CLA	CAA-CBA-CGA-O2A
22	S	609	CLA	CAA-CBA-CGA-O2A
22	A	829	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
22	B	829	CLA	CAA-CBA-CGA-O2A
22	G	611	CLA	CAA-CBA-CGA-O2A
22	N	601	CLA	CAA-CBA-CGA-O2A
22	A	834	CLA	CAA-CBA-CGA-O1A
22	G	602	CLA	CBA-CGA-O2A-C1
25	B	847	DGD	C6B-C7B-C8B-C9B
26	T	614	LHG	C7-C8-C9-C10
22	A	808	CLA	CAA-CBA-CGA-O2A
22	O	312	CLA	C4-C3-C5-C6
22	U	404	CLA	C4-C3-C5-C6
22	W	406	CLA	C4-C3-C5-C6
22	B	816	CLA	C10-C11-C12-C13
22	T	602	CLA	C8-C10-C11-C12
22	P	607	CLA	CAA-CBA-CGA-O2A
22	V	611	CLA	CAA-CBA-CGA-O2A
22	H	313	CLA	C2-C3-C5-C6
22	T	604	CLA	C2-C3-C5-C6
27	F	409	LMU	C4-C5-C6-C7
28	U	423	LMG	C14-C15-C16-C17
22	T	611	CLA	C16-C17-C18-C20
26	B	851	LHG	O7-C7-C8-C9
26	X	420	LHG	O7-C7-C8-C9
22	B	813	CLA	C11-C10-C8-C9
22	B	828	CLA	C11-C12-C13-C14
22	G	602	CLA	C6-C7-C8-C9
22	H	308	CLA	C6-C7-C8-C9
22	K	602	CLA	C6-C7-C8-C9
22	N	606	CLA	C14-C13-C15-C16
22	R	605	CLA	C11-C12-C13-C14
22	R	610	CLA	C11-C10-C8-C9
22	U	404	CLA	C11-C12-C13-C14
22	X	403	CLA	C11-C12-C13-C14
22	A	813	CLA	C11-C12-C13-C14
22	A	816	CLA	C11-C12-C13-C14
22	A	817	CLA	C11-C12-C13-C14
22	A	826	CLA	C14-C13-C15-C16
26	W	420	LHG	O10-C23-O8-C6
22	H	318	CLA	CAA-CBA-CGA-O2A
22	L	411	CLA	C8-C10-C11-C12
22	H	305	CLA	C3A-C2A-CAA-CBA
22	N	607	CLA	C3A-C2A-CAA-CBA
22	P	607	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	Q	610	CLA	C3A-C2A-CAA-CBA
22	A	804	CLA	C3A-C2A-CAA-CBA
22	A	839	CLA	C8-C10-C11-C12
22	L	404	CLA	CAA-CBA-CGA-O2A
22	A	821	CLA	CAA-CBA-CGA-O2A
26	L	416	LHG	O8-C23-C24-C25
31	W	422	CHL	CAA-CBA-CGA-O2A
27	T	617	LMU	C3-C4-C5-C6
22	N	604	CLA	CAA-CBA-CGA-O2A
22	N	609	CLA	CAA-CBA-CGA-O2A
22	Q	607	CLA	CAA-CBA-CGA-O2A
22	B	811	CLA	CAD-CBD-CGD-O2D
22	B	813	CLA	CAD-CBD-CGD-O2D
22	B	834	CLA	CAD-CBD-CGD-O2D
22	B	836	CLA	CAD-CBD-CGD-O2D
22	B	837	CLA	CAD-CBD-CGD-O2D
22	G	603	CLA	CAD-CBD-CGD-O2D
22	H	305	CLA	CAD-CBD-CGD-O2D
22	H	306	CLA	CAD-CBD-CGD-O2D
22	H	308	CLA	CAD-CBD-CGD-O2D
22	I	608	CLA	CAD-CBD-CGD-O2D
22	K	606	CLA	CAD-CBD-CGD-O2D
22	K	607	CLA	CAD-CBD-CGD-O2D
22	K	608	CLA	CAD-CBD-CGD-O2D
22	K	609	CLA	CAD-CBD-CGD-O2D
22	L	405	CLA	CAD-CBD-CGD-O2D
22	L	406	CLA	CAD-CBD-CGD-O2D
22	L	409	CLA	CAD-CBD-CGD-O2D
22	N	606	CLA	CAD-CBD-CGD-O2D
22	N	607	CLA	CAD-CBD-CGD-O2D
22	O	314	CLA	CAD-CBD-CGD-O2D
22	O	319	CLA	CAD-CBD-CGD-O2D
22	P	604	CLA	CAD-CBD-CGD-O2D
22	Q	604	CLA	CAD-CBD-CGD-O2D
22	Q	607	CLA	CAD-CBD-CGD-O2D
22	Q	612	CLA	CAD-CBD-CGD-O2D
22	Q	617	CLA	CAD-CBD-CGD-O2D
22	R	602	CLA	CAD-CBD-CGD-O2D
22	R	608	CLA	CAD-CBD-CGD-O2D
22	S	602	CLA	CAD-CBD-CGD-O2D
22	S	603	CLA	CAD-CBD-CGD-O2D
22	S	608	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
22	T	602	CLA	CAD-CBD-CGD-O2D
22	T	609	CLA	CAD-CBD-CGD-O2D
22	U	405	CLA	CAD-CBD-CGD-O2D
22	U	413	CLA	CAD-CBD-CGD-O2D
22	V	602	CLA	CAD-CBD-CGD-O2D
22	W	403	CLA	CAD-CBD-CGD-O2D
22	W	411	CLA	CAD-CBD-CGD-O2D
22	X	408	CLA	CAD-CBD-CGD-O2D
22	X	411	CLA	CAD-CBD-CGD-O2D
22	A	807	CLA	CAD-CBD-CGD-O2D
22	A	808	CLA	CAD-CBD-CGD-O2D
22	A	812	CLA	CAD-CBD-CGD-O2D
22	A	815	CLA	CAD-CBD-CGD-O2D
22	A	821	CLA	CAD-CBD-CGD-O2D
22	A	828	CLA	CAD-CBD-CGD-O2D
28	K	622	LMG	C4-C5-C6-O5
28	B	856	LMG	C42-C43-C44-C45
28	K	601	LMG	C15-C16-C17-C18
22	A	822	CLA	C13-C15-C16-C17
28	U	423	LMG	O9-C10-O7-C8
22	B	814	CLA	CAA-CBA-CGA-O2A
22	P	609	CLA	CAA-CBA-CGA-O1A
22	R	611	CLA	CAA-CBA-CGA-O2A
22	V	617	CLA	CAA-CBA-CGA-O2A
22	A	830	CLA	CAA-CBA-CGA-O2A
26	O	318	LHG	O7-C7-C8-C9
33	A	802	CL0	CAA-CBA-CGA-O2A
22	A	817	CLA	C10-C11-C12-C13
22	I	601	CLA	C4-C3-C5-C6
22	R	607	CLA	C4-C3-C5-C6
22	A	805	CLA	C4-C3-C5-C6
22	A	801	CLA	C16-C17-C18-C20
27	K	620	LMU	C2B-C1B-O1B-C4'
22	G	605	CLA	CAA-CBA-CGA-O1A
26	X	420	LHG	C25-C26-C27-C28
26	A	845	LHG	C32-C33-C34-C35
22	A	836	CLA	C5-C6-C7-C8
22	U	414	CLA	C2-C3-C5-C6
22	X	402	CLA	C2-C3-C5-C6
22	K	605	CLA	CAA-CBA-CGA-O2A
27	H	321	LMU	C2-C3-C4-C5
28	K	618	LMG	C33-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
22	X	410	CLA	O1A-CGA-O2A-C1
24	V	615	DD6	C5-C6-C8-C9
28	N	615	LMG	C14-C15-C16-C17
24	L	414	DD6	C13-C14-C15-O1
24	N	613	DD6	C13-C14-C15-O1
24	P	612	DD6	C13-C14-C15-O1
24	W	418	DD6	C13-C14-C15-O1
26	T	614	LHG	C4-C5-C6-O8
22	Q	618	CLA	CAA-CBA-CGA-O1A
22	V	601	CLA	CAA-CBA-CGA-O2A
22	W	415	CLA	CAA-CBA-CGA-O1A
22	X	419	CLA	CAA-CBA-CGA-O2A
22	R	601	CLA	C13-C15-C16-C17
22	R	602	CLA	C5-C6-C7-C8
22	B	822	CLA	CAA-CBA-CGA-O2A
22	K	610	CLA	CAA-CBA-CGA-O2A
22	Q	605	CLA	CAA-CBA-CGA-O2A
22	B	829	CLA	CAA-CBA-CGA-O1A
22	G	609	CLA	CAA-CBA-CGA-O1A
22	U	403	CLA	CAA-CBA-CGA-O1A
22	W	415	CLA	CAA-CBA-CGA-O2A
28	U	423	LMG	C35-C36-C37-C38
22	B	821	CLA	O2A-C1-C2-C3
22	X	405	CLA	O2A-C1-C2-C3
26	R	614	LHG	C17-C18-C19-C20
22	X	410	CLA	CBA-CGA-O2A-C1
22	B	807	CLA	C2A-CAA-CBA-CGA
22	F	404	CLA	C2A-CAA-CBA-CGA
22	X	412	CLA	C2A-CAA-CBA-CGA
22	V	612	CLA	C8-C10-C11-C12
28	T	616	LMG	C16-C17-C18-C19
22	R	603	CLA	CAA-CBA-CGA-O2A
22	R	605	CLA	CAA-CBA-CGA-O2A
26	R	614	LHG	O8-C23-C24-C25
22	G	602	CLA	O1A-CGA-O2A-C1
22	H	318	CLA	CAA-CBA-CGA-O1A
22	I	605	CLA	CAA-CBA-CGA-O2A
22	I	608	CLA	CAA-CBA-CGA-O2A
22	L	412	CLA	CAA-CBA-CGA-O1A
22	N	601	CLA	CAA-CBA-CGA-O1A
22	N	604	CLA	CAA-CBA-CGA-O1A
22	P	608	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
22	Q	607	CLA	CAA-CBA-CGA-O1A
22	S	603	CLA	CAA-CBA-CGA-O1A
22	V	601	CLA	CAA-CBA-CGA-O1A
22	X	411	CLA	CAA-CBA-CGA-O1A
22	X	419	CLA	CAA-CBA-CGA-O1A
27	W	421	LMU	C1-C2-C3-C4
22	B	808	CLA	C5-C6-C7-C8
22	B	824	CLA	C16-C17-C18-C20
22	B	807	CLA	CHA-CBD-CGD-O1D
22	B	807	CLA	CHA-CBD-CGD-O2D
22	B	814	CLA	CHA-CBD-CGD-O2D
22	B	819	CLA	CHA-CBD-CGD-O2D
22	B	820	CLA	CHA-CBD-CGD-O2D
22	B	821	CLA	CHA-CBD-CGD-O1D
22	B	821	CLA	CHA-CBD-CGD-O2D
22	B	823	CLA	CHA-CBD-CGD-O2D
22	G	609	CLA	CHA-CBD-CGD-O1D
22	G	609	CLA	CHA-CBD-CGD-O2D
22	H	304	CLA	CHA-CBD-CGD-O1D
22	H	307	CLA	CHA-CBD-CGD-O1D
22	H	307	CLA	CHA-CBD-CGD-O2D
22	H	310	CLA	CHA-CBD-CGD-O2D
22	I	603	CLA	CHA-CBD-CGD-O2D
22	K	604	CLA	CHA-CBD-CGD-O2D
22	K	610	CLA	CHA-CBD-CGD-O1D
22	K	610	CLA	CHA-CBD-CGD-O2D
22	L	403	CLA	CHA-CBD-CGD-O1D
22	L	407	CLA	CHA-CBD-CGD-O1D
22	L	407	CLA	CHA-CBD-CGD-O2D
22	L	410	CLA	CHA-CBD-CGD-O2D
22	N	603	CLA	CHA-CBD-CGD-O1D
22	N	604	CLA	CHA-CBD-CGD-O1D
22	N	609	CLA	CHA-CBD-CGD-O1D
22	N	609	CLA	CHA-CBD-CGD-O2D
22	O	306	CLA	CHA-CBD-CGD-O1D
22	O	306	CLA	CHA-CBD-CGD-O2D
22	O	308	CLA	CHA-CBD-CGD-O1D
22	O	308	CLA	CHA-CBD-CGD-O2D
22	P	603	CLA	CHA-CBD-CGD-O1D
22	P	605	CLA	CHA-CBD-CGD-O1D
22	P	605	CLA	CHA-CBD-CGD-O2D
22	P	609	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
22	R	603	CLA	CHA-CBD-CGD-O1D
22	R	603	CLA	CHA-CBD-CGD-O2D
22	R	607	CLA	CHA-CBD-CGD-O2D
22	R	609	CLA	CHA-CBD-CGD-O1D
22	T	603	CLA	CHA-CBD-CGD-O1D
22	T	603	CLA	CHA-CBD-CGD-O2D
22	T	604	CLA	CHA-CBD-CGD-O2D
22	T	606	CLA	CHA-CBD-CGD-O2D
22	V	611	CLA	CHA-CBD-CGD-O1D
22	V	617	CLA	CHA-CBD-CGD-O2D
22	W	413	CLA	CHA-CBD-CGD-O2D
22	X	402	CLA	CHA-CBD-CGD-O2D
22	X	412	CLA	CHA-CBD-CGD-O1D
22	X	412	CLA	CHA-CBD-CGD-O2D
22	A	817	CLA	CHA-CBD-CGD-O1D
22	A	824	CLA	CHA-CBD-CGD-O2D
22	A	825	CLA	CHA-CBD-CGD-O2D
22	A	826	CLA	CHA-CBD-CGD-O1D
22	A	838	CLA	CHA-CBD-CGD-O2D
22	O	307	CLA	CAA-CBA-CGA-O1A
22	P	608	CLA	CAA-CBA-CGA-O1A
22	R	611	CLA	CAA-CBA-CGA-O1A
22	V	611	CLA	CAA-CBA-CGA-O1A
22	L	407	CLA	C4-C3-C5-C6
22	H	306	CLA	CAA-CBA-CGA-O2A
22	I	601	CLA	CAA-CBA-CGA-O2A
27	B	850	LMU	C4-C5-C6-C7
22	W	406	CLA	C2-C3-C5-C6
22	A	803	CLA	C2-C3-C5-C6
22	A	805	CLA	C2-C3-C5-C6
22	B	821	CLA	C5-C6-C7-C8
28	L	401	LMG	C16-C17-C18-C19
26	A	846	LHG	O6-C4-C5-C6
32	U	418	NEX	C28-C29-C30-C31
32	V	616	NEX	C28-C29-C30-C31
22	N	609	CLA	CAA-CBA-CGA-O1A
22	V	617	CLA	CAA-CBA-CGA-O1A
22	N	606	CLA	C15-C16-C17-C18
22	B	805	CLA	CAA-CBA-CGA-O2A
22	N	603	CLA	CAA-CBA-CGA-O2A
26	O	324	LHG	O7-C7-C8-C9
28	K	601	LMG	O8-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
26	N	616	LHG	C25-C26-C27-C28
26	A	845	LHG	O7-C5-C6-O8
28	K	622	LMG	O7-C8-C9-O8
22	T	611	CLA	C10-C11-C12-C13
22	B	814	CLA	CAA-CBA-CGA-O1A
22	U	401	CLA	O1A-CGA-O2A-C1
22	Q	612	CLA	CAA-CBA-CGA-O2A
22	R	606	CLA	CAA-CBA-CGA-O2A
22	R	608	CLA	CAA-CBA-CGA-O2A
28	N	615	LMG	O7-C10-C11-C12
28	K	622	LMG	O6-C5-C6-O5
22	T	602	CLA	C2A-CAA-CBA-CGA
31	W	408	CHL	C2A-CAA-CBA-CGA
31	W	407	CHL	CAA-CBA-CGA-O2A
27	L	419	LMU	O1B-C1B-O5B-C5B
22	K	613	CLA	C5-C6-C7-C8
28	N	615	LMG	C10-C11-C12-C13
28	N	615	LMG	C28-C29-C30-C31
28	K	622	LMG	C11-C10-O7-C8
26	G	614	LHG	O8-C23-C24-C25
22	A	844	CLA	O1D-CGD-O2D-CED
22	B	818	CLA	C6-C7-C8-C10
22	G	606	CLA	C12-C13-C15-C16
22	K	617	CLA	C2-C3-C5-C6
22	N	606	CLA	C6-C7-C8-C10
22	R	615	CLA	C6-C7-C8-C10
22	S	602	CLA	C2-C3-C5-C6
22	V	604	CLA	C6-C7-C8-C10
22	A	812	CLA	C6-C7-C8-C10
22	A	816	CLA	C6-C7-C8-C10
22	A	825	CLA	C6-C7-C8-C10
22	A	836	CLA	C6-C7-C8-C10
22	B	818	CLA	C16-C17-C18-C20
22	A	801	CLA	C16-C17-C18-C19
28	K	618	LMG	O9-C10-O7-C8
26	N	614	LHG	O8-C23-C24-C25
22	G	610	CLA	CAA-CBA-CGA-O1A
22	B	817	CLA	C11-C12-C13-C14
22	B	818	CLA	C6-C7-C8-C9
22	B	833	CLA	C14-C13-C15-C16
22	F	403	CLA	C6-C7-C8-C9
22	F	403	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
22	K	611	CLA	C6-C7-C8-C9
22	A	822	CLA	C6-C7-C8-C9
22	A	840	CLA	C11-C10-C8-C9
25	O	304	DGD	C4A-C5A-C6A-C7A
27	W	421	LMU	C7-C8-C9-C10
22	Q	610	CLA	O1A-CGA-O2A-C1
22	Q	603	CLA	CAA-CBA-CGA-O2A
22	T	610	CLA	CAA-CBA-CGA-O2A
22	U	401	CLA	CBA-CGA-O2A-C1
22	B	816	CLA	CAA-CBA-CGA-O2A
26	X	420	LHG	O8-C23-C24-C25
30	V	618	SQD	C4-C5-C6-S
22	A	828	CLA	C16-C17-C18-C19
26	O	321	LHG	C28-C29-C30-C31
28	H	319	LMG	C34-C35-C36-C37
22	G	611	CLA	CAA-CBA-CGA-O1A
22	P	607	CLA	CAA-CBA-CGA-O1A
22	B	830	CLA	C4C-C3C-CAC-CBC
26	K	619	LHG	O7-C7-C8-C9
22	B	835	CLA	C8-C10-C11-C12
26	N	616	LHG	C9-C10-C11-C12
22	K	605	CLA	CAA-CBA-CGA-O1A
28	N	615	LMG	O9-C10-C11-C12
22	T	604	CLA	C5-C6-C7-C8
22	K	609	CLA	C11-C12-C13-C14
22	U	410	CLA	C4-C3-C5-C6
26	K	619	LHG	O1-C1-C2-C3
22	A	808	CLA	CAA-CBA-CGA-O1A
31	W	422	CHL	CAA-CBA-CGA-O1A
27	U	421	LMU	C5-C6-C7-C8
28	K	622	LMG	C29-C28-O8-C9
27	L	419	LMU	C3-C4-C5-C6
22	H	305	CLA	C1A-C2A-CAA-CBA
22	H	309	CLA	C1A-C2A-CAA-CBA
22	K	602	CLA	C1A-C2A-CAA-CBA
22	N	606	CLA	C1A-C2A-CAA-CBA
22	Q	610	CLA	C1A-C2A-CAA-CBA
22	V	609	CLA	C1A-C2A-CAA-CBA
22	W	411	CLA	C1A-C2A-CAA-CBA
22	A	829	CLA	C1A-C2A-CAA-CBA
22	A	840	CLA	C16-C17-C18-C19
22	S	609	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
22	A	821	CLA	CAA-CBA-CGA-O1A
22	I	608	CLA	CAA-CBA-CGA-O1A
22	P	606	CLA	CAA-CBA-CGA-O2A
22	K	607	CLA	O1D-CGD-O2D-CED
22	V	603	CLA	C2-C1-O2A-CGA
22	Q	610	CLA	CBA-CGA-O2A-C1
22	I	601	CLA	CAA-CBA-CGA-O1A
22	L	404	CLA	CAA-CBA-CGA-O1A
26	B	851	LHG	O9-C7-C8-C9
26	O	318	LHG	O9-C7-C8-C9
22	Q	606	CLA	CAA-CBA-CGA-O2A
22	U	412	CLA	CAA-CBA-CGA-O2A
26	H	316	LHG	C4-C5-C6-O8
22	A	826	CLA	C15-C16-C17-C18
22	P	602	CLA	C2A-CAA-CBA-CGA
22	P	605	CLA	C2A-CAA-CBA-CGA
22	P	609	CLA	C2A-CAA-CBA-CGA
22	U	404	CLA	C2A-CAA-CBA-CGA
22	V	602	CLA	C2A-CAA-CBA-CGA
22	V	609	CLA	C2A-CAA-CBA-CGA
28	B	856	LMG	C15-C16-C17-C18
22	T	605	CLA	C16-C17-C18-C19
22	U	410	CLA	C6-C7-C8-C10
22	N	603	CLA	CAA-CBA-CGA-O1A
22	A	823	CLA	CAA-CBA-CGA-O2A
22	A	830	CLA	C15-C16-C17-C18
28	I	614	LMG	O9-C10-O7-C8
22	R	607	CLA	C3-C5-C6-C7
28	L	401	LMG	C19-C20-C21-C22
22	R	605	CLA	CAA-CBA-CGA-O1A
26	O	324	LHG	O9-C7-C8-C9
26	R	614	LHG	O10-C23-C24-C25
26	X	420	LHG	O9-C7-C8-C9
27	B	850	LMU	C6-C7-C8-C9
22	I	605	CLA	CAA-CBA-CGA-O1A
22	A	852	CLA	C15-C16-C17-C18
26	Q	616	LHG	C12-C13-C14-C15
26	A	846	LHG	C3-O3-P-O5
28	H	322	LMG	O1-C7-C8-O7
22	B	822	CLA	CAA-CBA-CGA-O1A
22	Q	605	CLA	CAA-CBA-CGA-O1A
26	K	619	LHG	O9-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
26	L	416	LHG	O10-C23-C24-C25
26	N	614	LHG	O10-C23-C24-C25
25	O	304	DGD	O2G-C1B-C2B-C3B
22	I	610	CLA	CAA-CBA-CGA-O2A
22	R	604	CLA	CAA-CBA-CGA-O2A
22	A	827	CLA	C3-C5-C6-C7
26	R	614	LHG	C14-C15-C16-C17
31	W	422	CHL	C5-C6-C7-C8
24	X	416	DD6	C11-C13-C14-C15
22	B	805	CLA	CAA-CBA-CGA-O1A
22	R	603	CLA	CAA-CBA-CGA-O1A
22	A	830	CLA	CAA-CBA-CGA-O1A
22	R	610	CLA	CAA-CBA-CGA-O2A
22	X	412	CLA	CAA-CBA-CGA-O2A
31	W	407	CHL	CAA-CBA-CGA-O1A
22	B	802	CLA	C16-C17-C18-C20
22	H	305	CLA	C11-C12-C13-C15
22	A	833	CLA	C16-C17-C18-C19
22	I	611	CLA	C2A-CAA-CBA-CGA
22	K	603	CLA	C2A-CAA-CBA-CGA
22	B	802	CLA	CAA-CBA-CGA-O1A
22	H	306	CLA	CAA-CBA-CGA-O1A
22	Q	612	CLA	CAA-CBA-CGA-O1A
22	L	406	CLA	C15-C16-C17-C18
22	I	610	CLA	CAA-CBA-CGA-O1A
22	N	607	CLA	C5-C6-C7-C8
22	K	617	CLA	CBD-CGD-O2D-CED
28	H	322	LMG	O6-C5-C6-O5
22	K	610	CLA	CAA-CBA-CGA-O1A
22	B	803	CLA	C4-C3-C5-C6
22	X	410	CLA	C4-C3-C5-C6
22	A	852	CLA	C4-C3-C5-C6
28	K	622	LMG	C37-C38-C39-C40
22	G	610	CLA	CAA-CBA-CGA-O2A
22	T	610	CLA	CAA-CBA-CGA-O1A
22	B	829	CLA	CAD-CBD-CGD-O1D
22	H	307	CLA	CAD-CBD-CGD-O1D
22	L	406	CLA	CAD-CBD-CGD-O1D
22	N	603	CLA	CAD-CBD-CGD-O1D
22	P	605	CLA	CAD-CBD-CGD-O1D
22	S	605	CLA	CAD-CBD-CGD-O1D
22	U	403	CLA	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
22	U	404	CLA	CAD-CBD-CGD-O1D
22	A	817	CLA	CAD-CBD-CGD-O1D
22	A	824	CLA	CAD-CBD-CGD-O1D
22	A	839	CLA	CAD-CBD-CGD-O1D
26	N	616	LHG	C4-C5-O7-C7
26	N	616	LHG	C6-C5-O7-C7
30	V	618	SQD	O5-C5-C6-S
22	R	608	CLA	CAA-CBA-CGA-O1A
26	G	614	LHG	O10-C23-C24-C25
28	I	615	LMG	O9-C10-C11-C12
28	I	615	LMG	C21-C22-C23-C24
22	I	603	CLA	CAA-CBA-CGA-O2A
22	B	806	CLA	C5-C6-C7-C8
22	B	835	CLA	C13-C15-C16-C17
22	B	818	CLA	C11-C12-C13-C14
22	B	825	CLA	C6-C7-C8-C9
22	B	825	CLA	C14-C13-C15-C16
22	B	827	CLA	C11-C12-C13-C14
22	B	832	CLA	C6-C7-C8-C9
22	L	402	CLA	C11-C10-C8-C9
22	R	601	CLA	C11-C10-C8-C9
22	R	601	CLA	C11-C12-C13-C14
22	T	602	CLA	C11-C10-C8-C9
22	V	612	CLA	C11-C12-C13-C14
22	A	814	CLA	C11-C12-C13-C14
22	A	824	CLA	C14-C13-C15-C16
22	A	825	CLA	C6-C7-C8-C9
22	I	611	CLA	CBD-CGD-O2D-CED
22	A	844	CLA	CBD-CGD-O2D-CED
28	G	616	LMG	C11-C12-C13-C14
22	P	602	CLA	CAA-CBA-CGA-O2A
22	R	604	CLA	CAA-CBA-CGA-O1A
22	Q	609	CLA	O1A-CGA-O2A-C1
26	K	619	LHG	C23-C24-C25-C26
22	Q	611	CLA	CAA-CBA-CGA-O2A
22	S	605	CLA	CAA-CBA-CGA-O2A
22	W	409	CLA	CAA-CBA-CGA-O2A
26	A	845	LHG	O8-C23-C24-C25
22	Q	603	CLA	CAA-CBA-CGA-O1A
28	A	855	LMG	C12-C13-C14-C15
22	W	410	CLA	C8-C10-C11-C12
28	U	423	LMG	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
22	B	839	CLA	CAA-CBA-CGA-O2A
22	L	411	CLA	CAA-CBA-CGA-O2A
22	S	602	CLA	CAA-CBA-CGA-O2A
22	A	826	CLA	CAA-CBA-CGA-O2A
28	U	423	LMG	O7-C10-C11-C12
26	K	616	LHG	C1-C2-C3-O3
26	O	318	LHG	C1-C2-C3-O3
23	A	843	PQN	C25-C26-C27-C28
28	J	101	LMG	C15-C16-C17-C18
28	K	601	LMG	C12-C13-C14-C15
28	A	855	LMG	C13-C14-C15-C16
22	R	606	CLA	CAA-CBA-CGA-O1A
26	R	614	LHG	O9-C7-O7-C5
26	T	614	LHG	C25-C26-C27-C28
22	N	607	CLA	C4-C3-C5-C6
26	B	851	LHG	C18-C19-C20-C21
26	O	323	LHG	C35-C36-C37-C38
22	B	804	CLA	C11-C12-C13-C15
22	B	825	CLA	C6-C7-C8-C10
22	B	825	CLA	C12-C13-C15-C16
22	F	403	CLA	C11-C10-C8-C7
22	I	602	CLA	C11-C10-C8-C7
22	K	604	CLA	C12-C13-C15-C16
22	O	313	CLA	C11-C12-C13-C15
22	R	601	CLA	C12-C13-C15-C16
22	R	603	CLA	C6-C7-C8-C10
22	T	602	CLA	C11-C10-C8-C7
22	T	605	CLA	C6-C7-C8-C10
22	V	612	CLA	C11-C12-C13-C15
22	W	409	CLA	C11-C10-C8-C7
22	W	414	CLA	C12-C13-C15-C16
22	X	409	CLA	C2-C3-C5-C6
22	A	811	CLA	C3A-C2A-CAA-CBA
22	A	829	CLA	C2-C3-C5-C6
22	A	830	CLA	C3A-C2A-CAA-CBA
22	A	842	CLA	C2-C3-C5-C6
30	V	618	SQD	C45-C44-O6-C1
22	W	409	CLA	CAA-CBA-CGA-O1A
26	X	420	LHG	O10-C23-C24-C25
22	H	312	CLA	CAA-CBA-CGA-O2A
22	P	606	CLA	CAA-CBA-CGA-O1A
22	X	413	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
22	B	808	CLA	CAA-CBA-CGA-O2A
22	H	309	CLA	CAA-CBA-CGA-O2A
22	L	407	CLA	CAA-CBA-CGA-O2A
22	O	308	CLA	CAA-CBA-CGA-O2A
22	W	405	CLA	CAA-CBA-CGA-O2A
22	A	807	CLA	CAA-CBA-CGA-O2A
26	K	616	LHG	O8-C23-C24-C25
28	J	101	LMG	O7-C10-C11-C12
30	K	621	SQD	O47-C7-C8-C9
30	O	302	SQD	O47-C7-C8-C9
26	G	614	LHG	C25-C26-C27-C28
28	I	615	LMG	C23-C24-C25-C26
30	K	621	SQD	C7-C8-C9-C10
24	Q	614	DD6	C2-C1-C24-C25
22	B	816	CLA	CAA-CBA-CGA-O1A
22	L	407	CLA	CAA-CBA-CGA-O1A
26	K	616	LHG	O10-C23-C24-C25
22	P	602	CLA	CAA-CBA-CGA-O1A
22	Q	601	CLA	CAA-CBA-CGA-O2A
22	Q	606	CLA	CAA-CBA-CGA-O1A
24	P	613	DD6	C1-C2-C3-C4
22	T	611	CLA	C16-C17-C18-C19
27	B	849	LMU	C2-C1-O1'-C1'
27	H	301	LMU	C2-C1-O1'-C1'
27	X	421	LMU	C2-C1-O1'-C1'
22	O	312	CLA	CAA-CBA-CGA-O2A
22	R	607	CLA	CAA-CBA-CGA-O2A
22	K	617	CLA	O1D-CGD-O2D-CED
22	W	409	CLA	O1A-CGA-O2A-C1
22	B	808	CLA	CAA-CBA-CGA-O1A
22	G	603	CLA	CAA-CBA-CGA-O1A
22	Q	609	CLA	CBA-CGA-O2A-C1
22	I	606	CLA	CBD-CGD-O2D-CED
22	T	601	CLA	CAA-CBA-CGA-O2A
22	U	412	CLA	CAA-CBA-CGA-O1A
26	H	316	LHG	C25-C26-C27-C28
27	A	854	LMU	C9-C10-C11-C12
22	G	603	CLA	CAA-CBA-CGA-O2A
26	W	420	LHG	O8-C23-C24-C25
22	Q	611	CLA	CAA-CBA-CGA-O1A
22	W	405	CLA	CAA-CBA-CGA-O1A
28	L	401	LMG	O10-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
22	R	606	CLA	C2A-CAA-CBA-CGA
22	Q	612	CLA	C16-C17-C18-C19
27	O	320	LMU	C1-C2-C3-C4
22	A	810	CLA	C13-C15-C16-C17
22	K	617	CLA	C4-C3-C5-C6
22	Q	608	CLA	CAA-CBA-CGA-O2A
22	Q	610	CLA	CAA-CBA-CGA-O2A
22	A	832	CLA	CAA-CBA-CGA-O2A

All (2) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
27	L	420	LMU	C1'-C2'-C3'-C4'-C5'-O5'
27	L	419	LMU	C1'-C2'-C3'-C4'-C5'-O5'

291 monomers are involved in 581 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
31	V	606	CHL	14	0
26	P	601	LHG	1	0
22	N	601	CLA	1	0
22	A	838	CLA	3	0
22	H	307	CLA	1	0
24	Q	614	DD6	1	0
21	A	849	BCR	3	0
22	G	611	CLA	1	0
21	M	101	BCR	3	0
22	Q	610	CLA	2	0
22	L	417	CLA	7	0
22	W	412	CLA	2	0
22	O	312	CLA	1	0
27	A	854	LMU	1	0
28	J	101	LMG	1	0
22	U	401	CLA	2	0
22	B	834	CLA	5	0
22	B	809	CLA	4	0
22	A	828	CLA	4	0
22	K	608	CLA	4	0
22	K	605	CLA	3	0
22	Q	603	CLA	1	0
28	I	615	LMG	1	0
22	X	403	CLA	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	X	413	CLA	1	0
22	F	403	CLA	2	0
22	F	404	CLA	4	0
22	R	605	CLA	5	0
22	K	606	CLA	2	0
22	B	829	CLA	3	0
22	K	603	CLA	2	0
22	G	609	CLA	3	0
22	L	404	CLA	6	0
22	N	603	CLA	2	0
23	A	843	PQN	2	0
22	A	824	CLA	4	0
31	W	407	CHL	6	0
22	T	607	CLA	1	0
22	A	833	CLA	1	0
24	B	841	DD6	1	0
22	U	406	CLA	1	0
22	A	813	CLA	2	0
31	U	408	CHL	4	0
22	L	408	CLA	12	0
27	U	424	LMU	1	0
22	B	828	CLA	2	0
22	A	841	CLA	3	0
22	Q	613	CLA	2	0
22	T	604	CLA	1	0
30	V	618	SQD	1	0
22	B	820	CLA	1	0
22	R	615	CLA	2	0
22	I	611	CLA	4	0
22	B	838	CLA	3	0
22	P	610	CLA	1	0
27	B	855	LMU	1	0
22	B	830	CLA	4	0
22	B	814	CLA	1	0
26	N	614	LHG	1	0
22	S	606	CLA	1	0
22	U	405	CLA	3	0
32	V	616	NEX	9	0
22	P	608	CLA	2	0
26	A	846	LHG	2	0
22	N	606	CLA	4	0
27	T	618	LMU	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	B	832	CLA	3	0
22	L	412	CLA	3	0
22	B	821	CLA	2	0
22	X	408	CLA	1	0
28	Q	602	LMG	2	0
22	B	836	CLA	2	0
28	U	423	LMG	2	0
22	B	807	CLA	2	0
22	S	604	CLA	1	0
22	B	813	CLA	3	0
22	B	815	CLA	3	0
22	Q	608	CLA	3	0
22	A	812	CLA	3	0
22	B	817	CLA	1	0
22	U	415	CLA	2	0
22	A	829	CLA	1	0
32	U	418	NEX	4	0
22	O	311	CLA	3	0
22	V	613	CLA	1	0
21	A	851	BCR	3	0
22	S	608	CLA	2	0
22	K	604	CLA	6	0
31	W	408	CHL	8	0
22	K	611	CLA	3	0
25	B	847	DGD	6	0
22	O	313	CLA	3	0
22	B	833	CLA	4	0
22	L	410	CLA	3	0
21	J	103	BCR	1	0
22	I	603	CLA	3	0
22	B	859	CLA	2	0
22	W	402	CLA	2	0
22	B	822	CLA	3	0
22	O	307	CLA	1	0
28	K	601	LMG	3	0
27	K	620	LMU	2	0
22	V	609	CLA	2	0
22	Q	612	CLA	1	0
22	A	805	CLA	2	0
22	A	852	CLA	4	0
22	W	410	CLA	3	0
22	S	605	CLA	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	I	602	CLA	1	0
27	B	854	LMU	8	0
22	B	819	CLA	1	0
22	A	823	CLA	1	0
22	X	409	CLA	1	0
22	B	816	CLA	2	0
22	A	817	CLA	2	0
26	B	851	LHG	7	0
22	A	815	CLA	2	0
22	K	617	CLA	2	0
22	A	804	CLA	3	0
22	G	603	CLA	2	0
22	Q	605	CLA	1	0
22	Q	611	CLA	1	0
22	B	802	CLA	2	0
22	A	821	CLA	1	0
22	A	839	CLA	1	0
26	A	845	LHG	1	0
22	B	811	CLA	1	0
21	B	842	BCR	2	0
22	B	835	CLA	2	0
22	V	612	CLA	7	0
22	A	809	CLA	1	0
22	W	404	CLA	2	0
30	O	302	SQD	8	0
22	P	607	CLA	1	0
22	Q	607	CLA	2	0
27	B	858	LMU	1	0
22	P	609	CLA	1	0
22	Q	609	CLA	1	0
27	O	301	LMU	4	0
22	R	611	CLA	2	0
22	B	827	CLA	1	0
21	B	844	BCR	5	0
28	B	856	LMG	4	0
25	F	401	DGD	2	0
22	H	310	CLA	1	0
22	V	608	CLA	1	0
22	U	412	CLA	1	0
22	Q	604	CLA	5	0
22	S	610	CLA	2	0
22	K	607	CLA	9	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
26	Q	616	LHG	1	0
22	K	609	CLA	2	0
22	W	411	CLA	2	0
26	N	616	LHG	1	0
22	O	309	CLA	3	0
22	W	413	CLA	2	0
22	O	310	CLA	1	0
22	G	608	CLA	4	0
22	A	820	CLA	1	0
22	B	810	CLA	1	0
22	B	839	CLA	2	0
31	U	407	CHL	3	0
21	B	801	BCR	8	0
27	H	301	LMU	1	0
22	A	836	CLA	2	0
27	L	420	LMU	2	0
26	L	416	LHG	3	0
22	A	807	CLA	1	0
22	H	313	CLA	1	0
22	A	814	CLA	4	0
22	U	404	CLA	2	0
27	L	419	LMU	4	0
21	B	846	BCR	1	0
22	R	604	CLA	5	0
22	L	409	CLA	2	0
22	S	602	CLA	1	0
22	L	402	CLA	2	0
22	V	603	CLA	2	0
22	A	832	CLA	3	0
22	G	610	CLA	1	0
22	A	806	CLA	4	0
22	A	811	CLA	1	0
28	T	616	LMG	2	0
22	A	844	CLA	4	0
22	N	607	CLA	7	0
27	H	321	LMU	1	0
22	P	602	CLA	2	0
22	W	414	CLA	1	0
21	A	848	BCR	2	0
22	A	830	CLA	1	0
22	A	801	CLA	1	0
22	R	602	CLA	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	G	601	CLA	1	0
22	I	606	CLA	2	0
22	A	842	CLA	4	0
22	W	415	CLA	1	0
22	J	102	CLA	1	0
22	N	610	CLA	3	0
22	A	827	CLA	2	0
26	K	616	LHG	3	0
22	U	409	CLA	1	0
22	G	602	CLA	1	0
22	T	605	CLA	4	0
22	A	822	CLA	3	0
22	O	308	CLA	4	0
22	A	803	CLA	1	0
26	T	614	LHG	1	0
22	U	411	CLA	1	0
22	V	604	CLA	7	0
27	F	409	LMU	1	0
26	S	613	LHG	2	0
21	B	843	BCR	3	0
26	B	848	LHG	1	0
33	A	802	CL0	6	0
22	L	406	CLA	1	0
25	O	304	DGD	3	0
22	A	834	CLA	1	0
23	B	840	PQN	1	0
22	N	604	CLA	1	0
22	A	819	CLA	1	0
28	H	319	LMG	1	0
22	A	831	CLA	2	0
30	F	407	SQD	2	0
28	U	402	LMG	2	0
31	W	422	CHL	2	0
22	I	607	CLA	3	0
22	S	607	CLA	1	0
22	H	311	CLA	2	0
22	O	305	CLA	1	0
22	A	825	CLA	2	0
22	B	824	CLA	3	0
22	L	411	CLA	1	0
22	R	610	CLA	3	0
22	K	613	CLA	4	0

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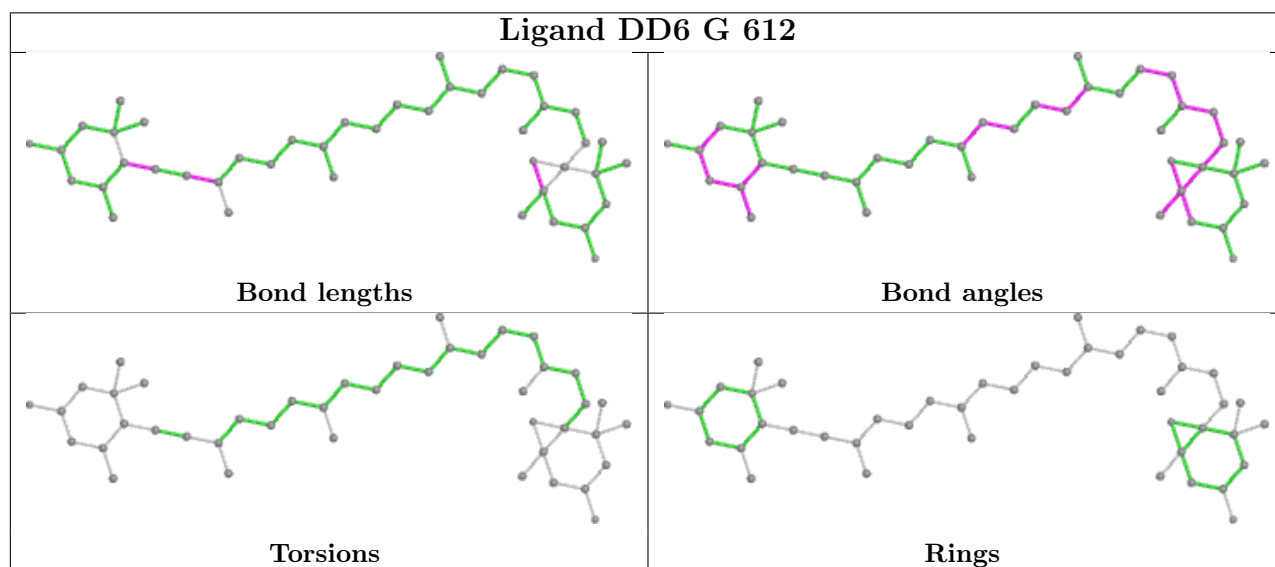
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22	B	823	CLA	3	0
22	P	603	CLA	1	0
22	A	840	CLA	3	0
22	H	305	CLA	1	0
22	O	315	CLA	2	0
22	B	812	CLA	1	0
22	U	420	CLA	1	0
27	M	102	LMU	1	0
22	B	803	CLA	2	0
22	X	404	CLA	1	0
28	H	322	LMG	1	0
22	A	816	CLA	2	0
22	B	818	CLA	1	0
22	B	825	CLA	3	0
22	N	602	CLA	1	0
22	H	312	CLA	3	0
22	V	617	CLA	1	0
22	Q	601	CLA	1	0
22	T	606	CLA	1	0
22	V	601	CLA	4	0
22	I	608	CLA	2	0
26	O	318	LHG	1	0
26	O	321	LHG	3	0
27	A	857	LMU	1	0
22	S	601	CLA	1	0
24	S	611	DD6	1	0
28	W	401	LMG	3	0
26	W	420	LHG	2	0
22	H	308	CLA	2	0
27	U	421	LMU	1	0
22	X	411	CLA	1	0
22	B	805	CLA	1	0
22	V	602	CLA	5	0
26	R	614	LHG	3	0
22	R	607	CLA	3	0
22	V	607	CLA	2	0
22	B	804	CLA	2	0
22	A	808	CLA	1	0
22	T	608	CLA	2	0
22	X	419	CLA	2	0
22	R	601	CLA	6	0

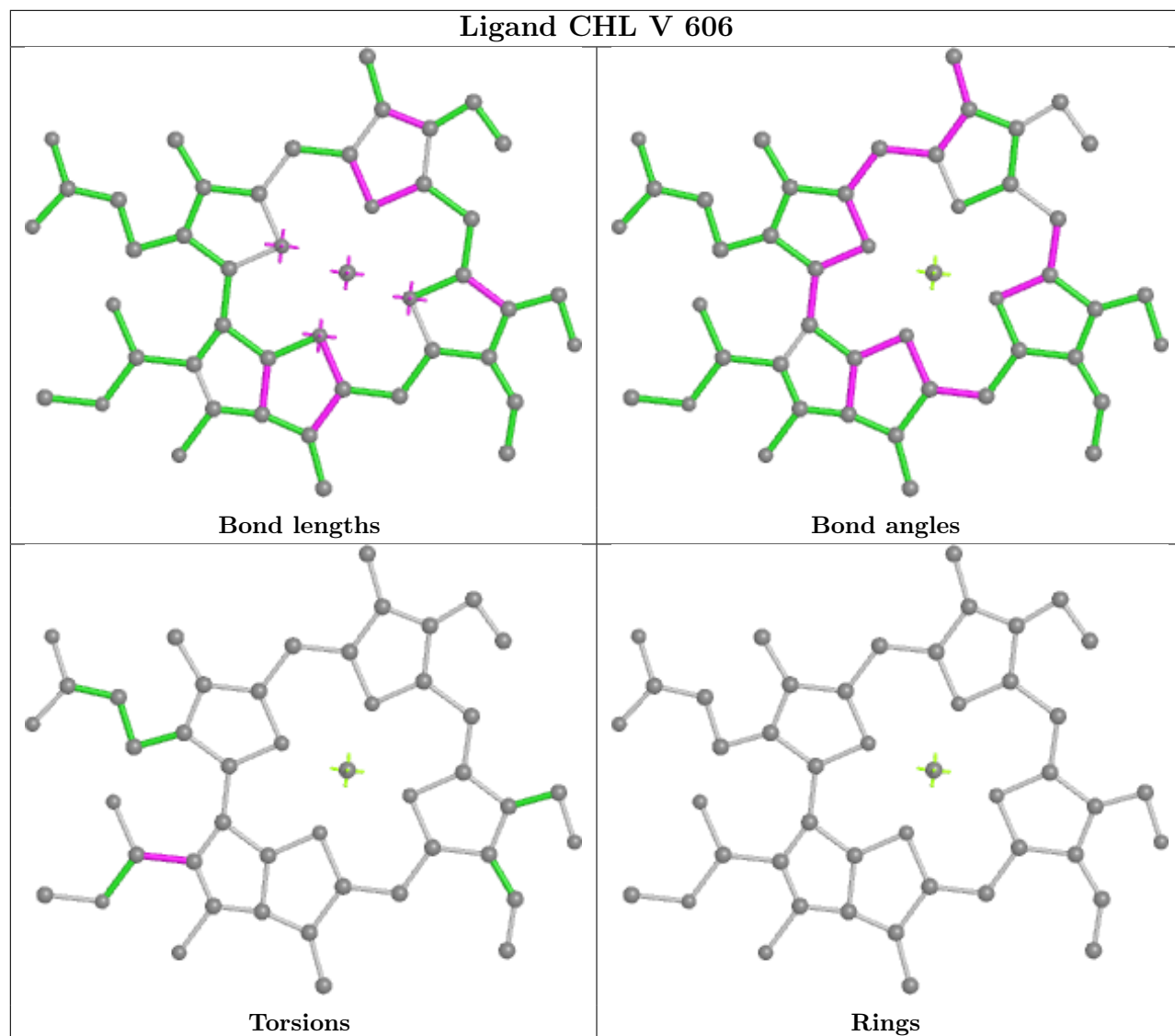
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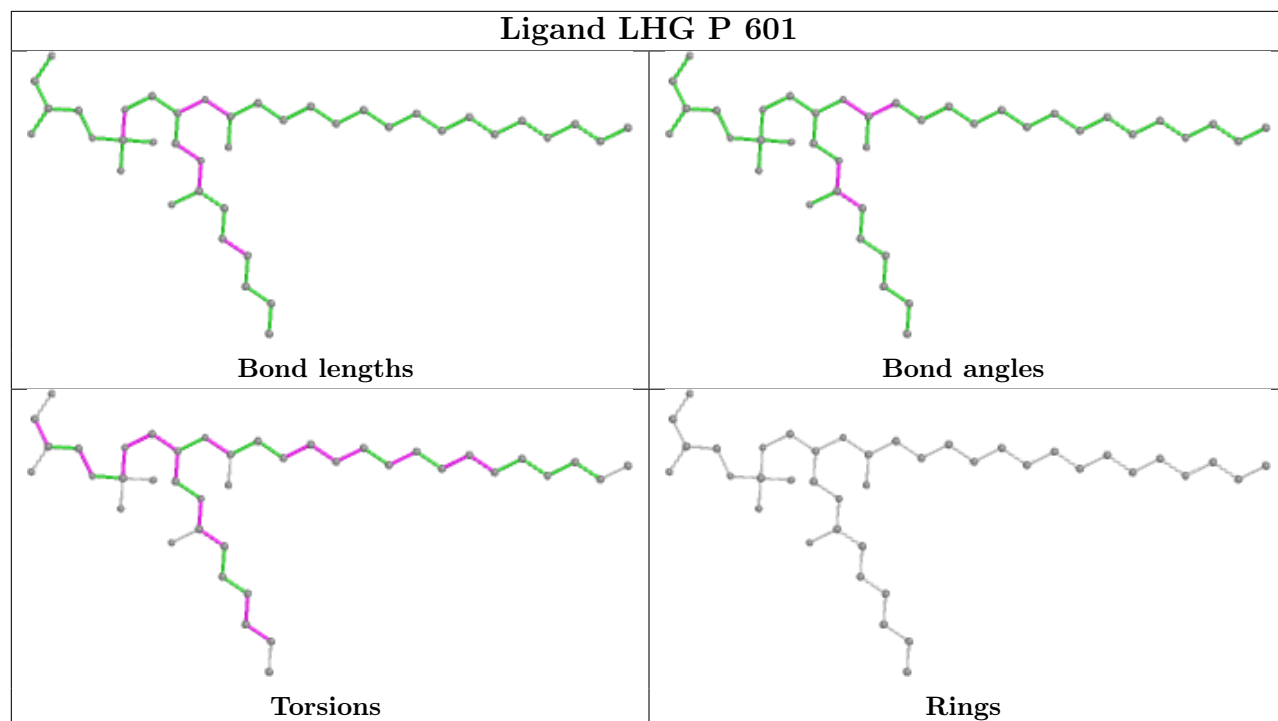
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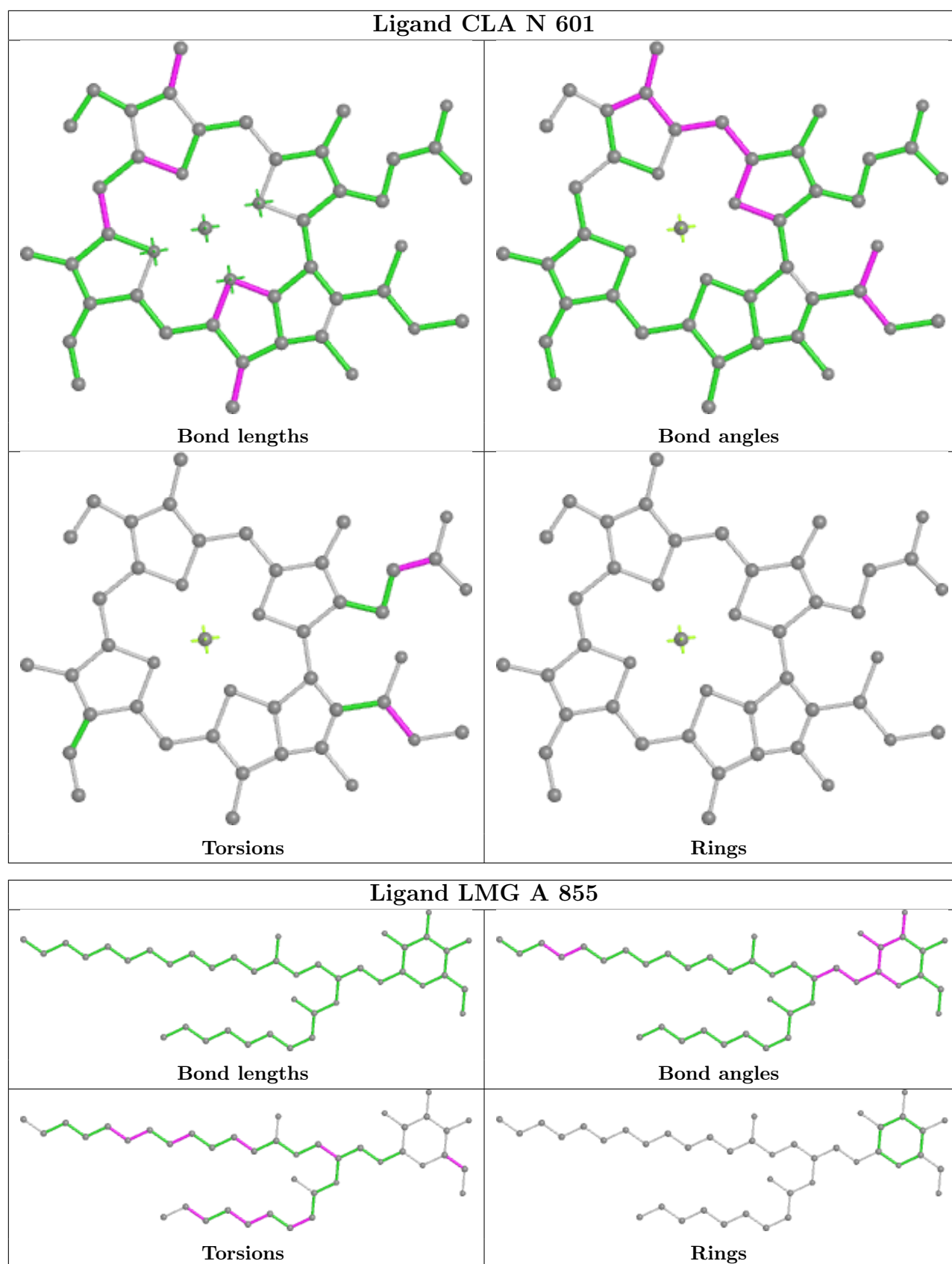
Mol	Chain	Res	Type	Clashes	Symm-Clashes
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22	R	606	CLA	3	0
22	B	806	CLA	4	0
22	B	831	CLA	2	0
22	P	605	CLA	1	0
22	W	406	CLA	3	0
21	B	845	BCR	2	0
28	F	408	LMG	3	0
22	I	601	CLA	2	0
22	W	409	CLA	4	0
30	K	621	SQD	1	0
31	V	605	CHL	12	0
22	P	606	CLA	3	0
28	N	615	LMG	1	0
22	S	609	CLA	1	0

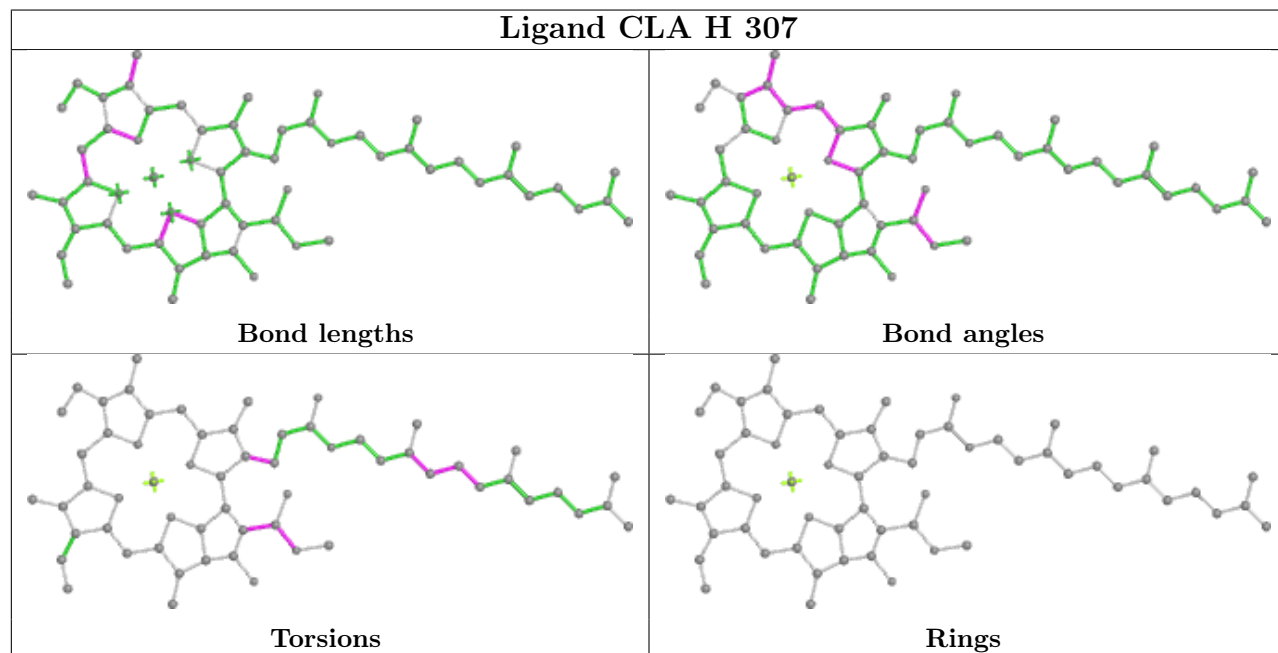
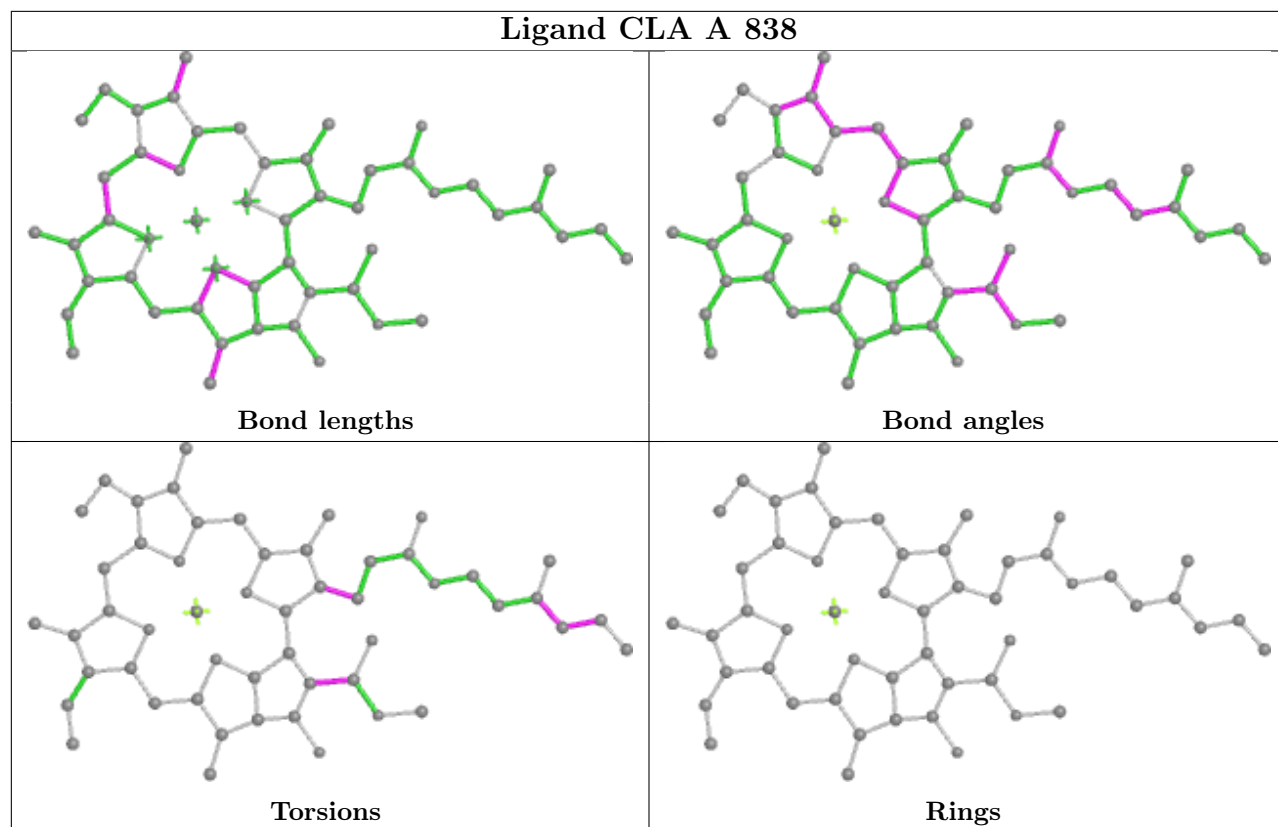
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

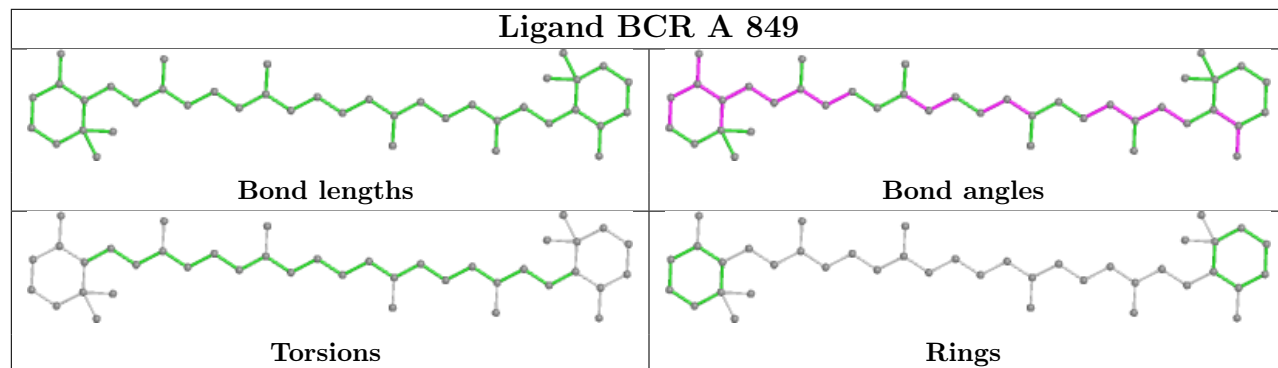
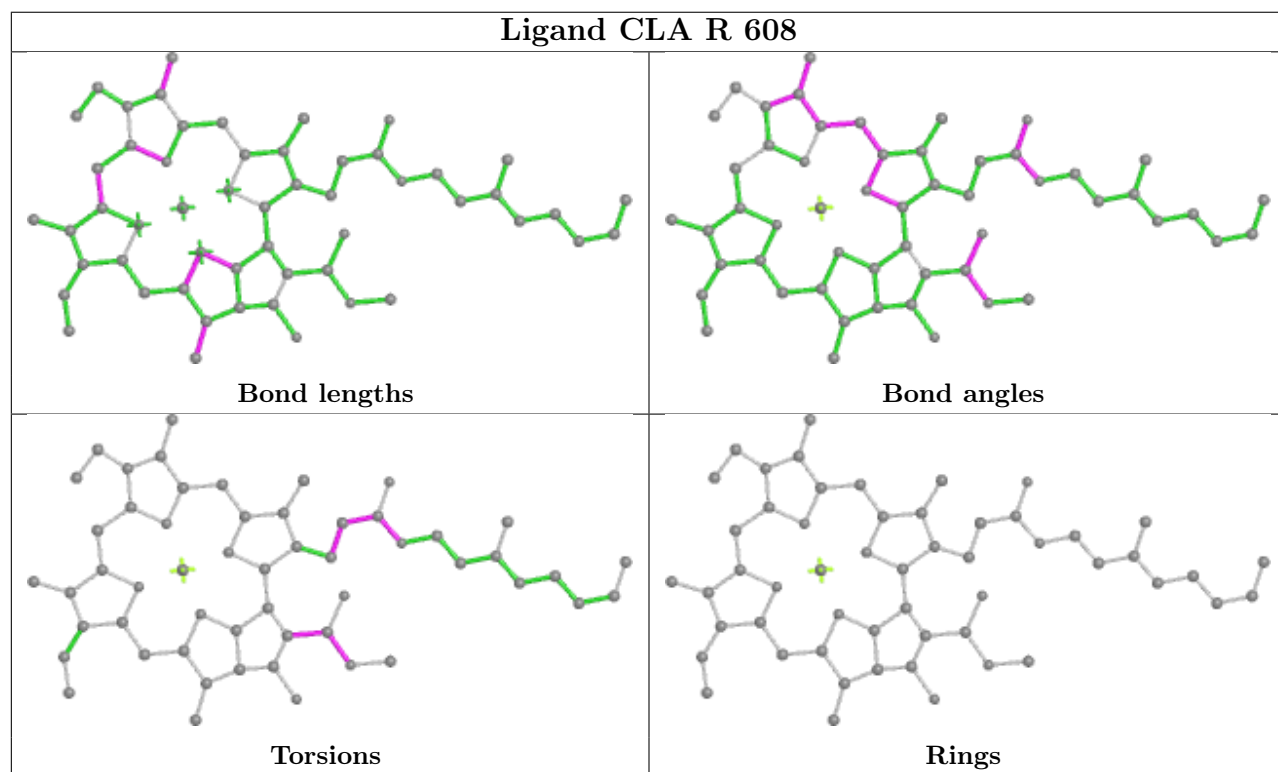
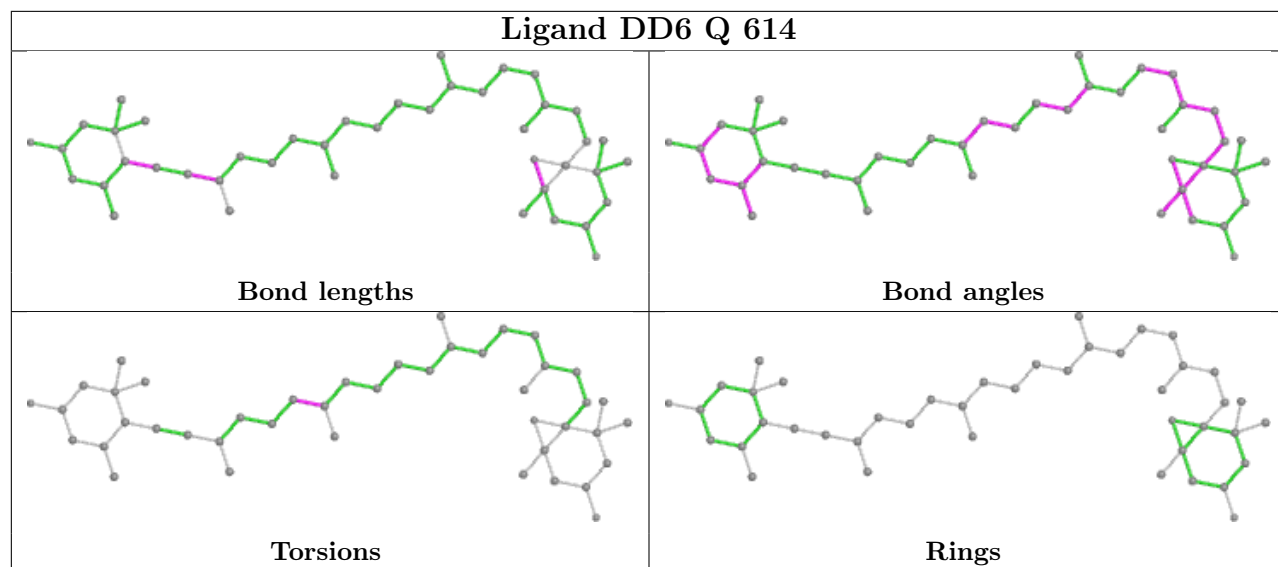


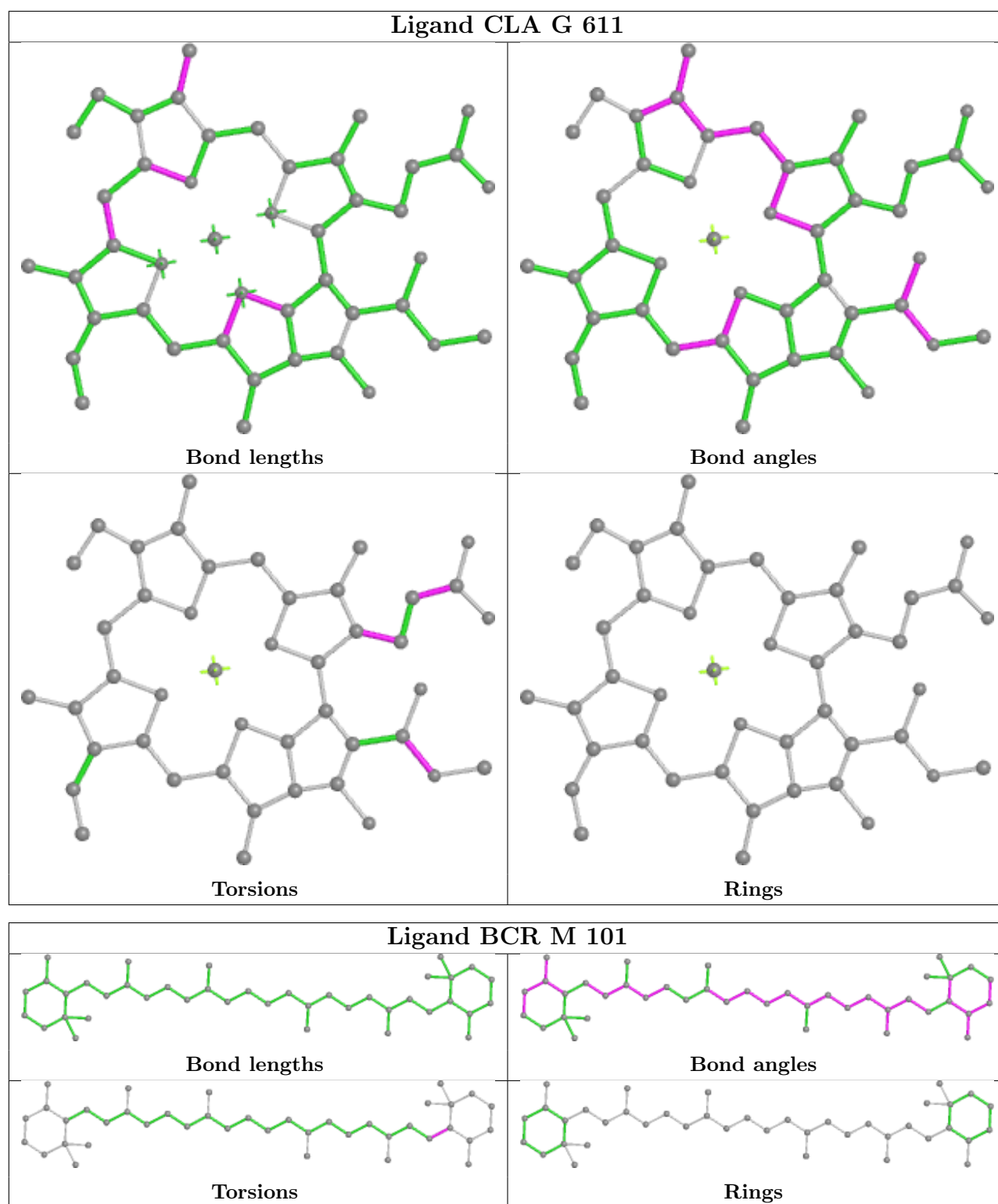


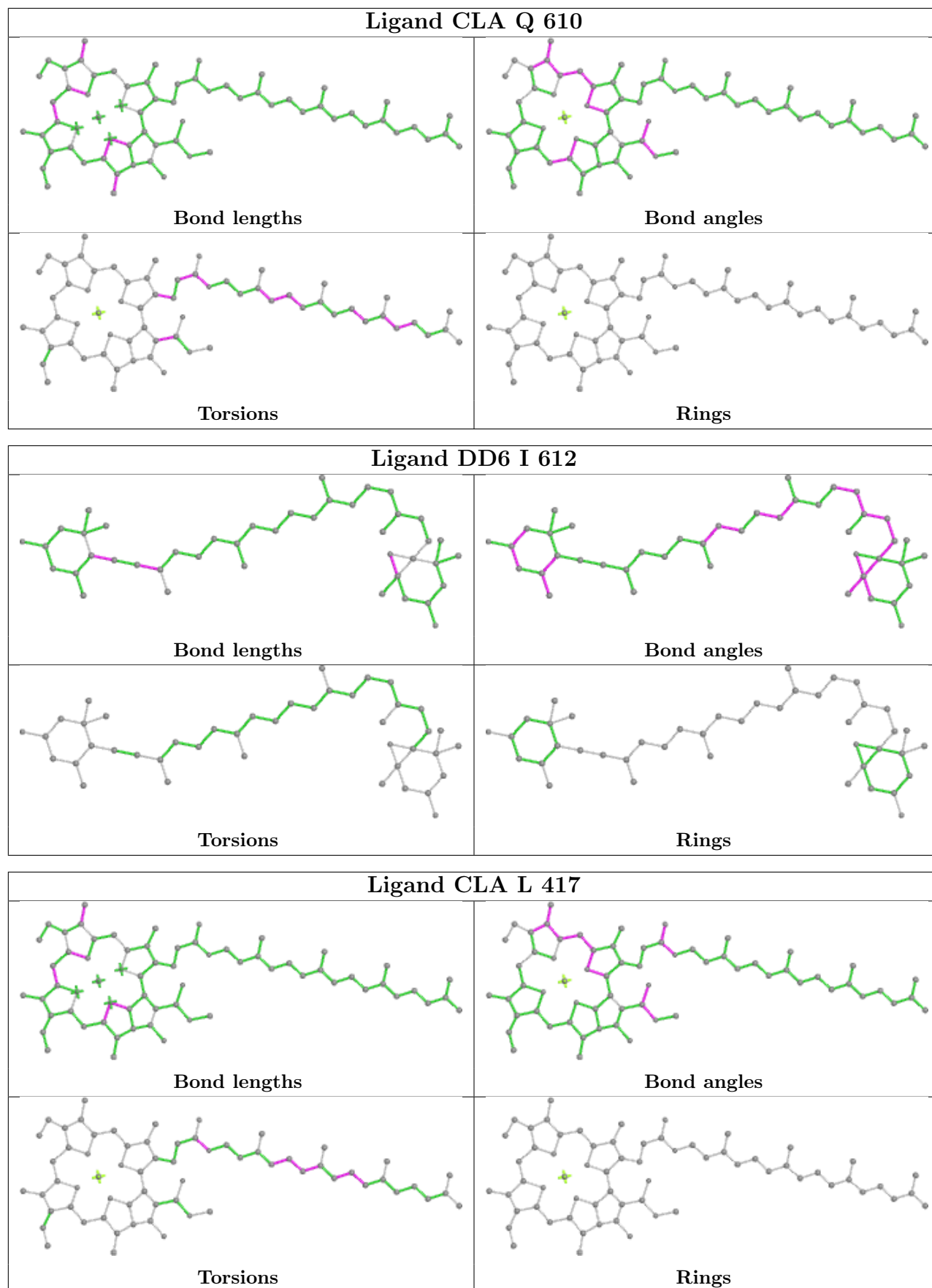


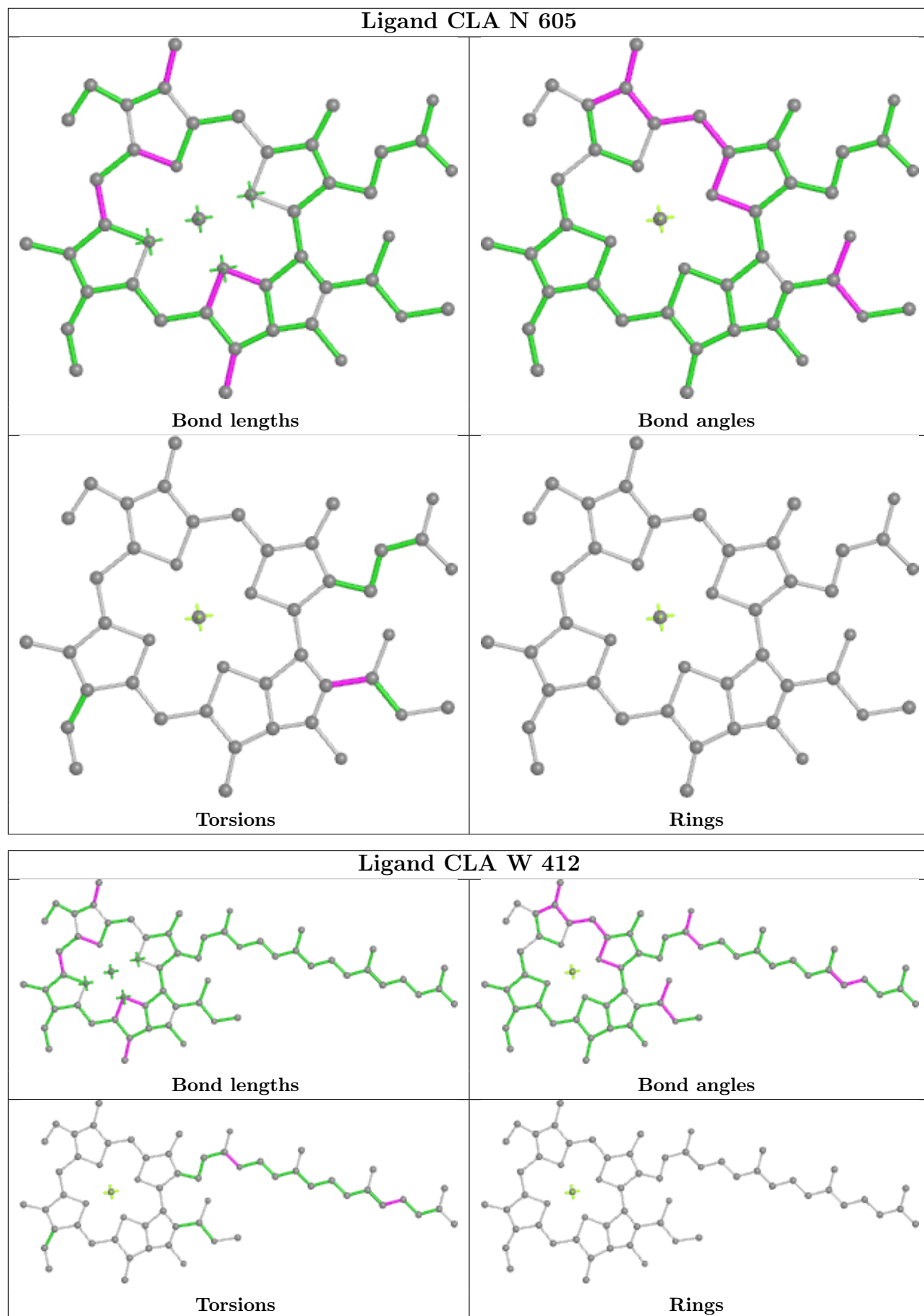


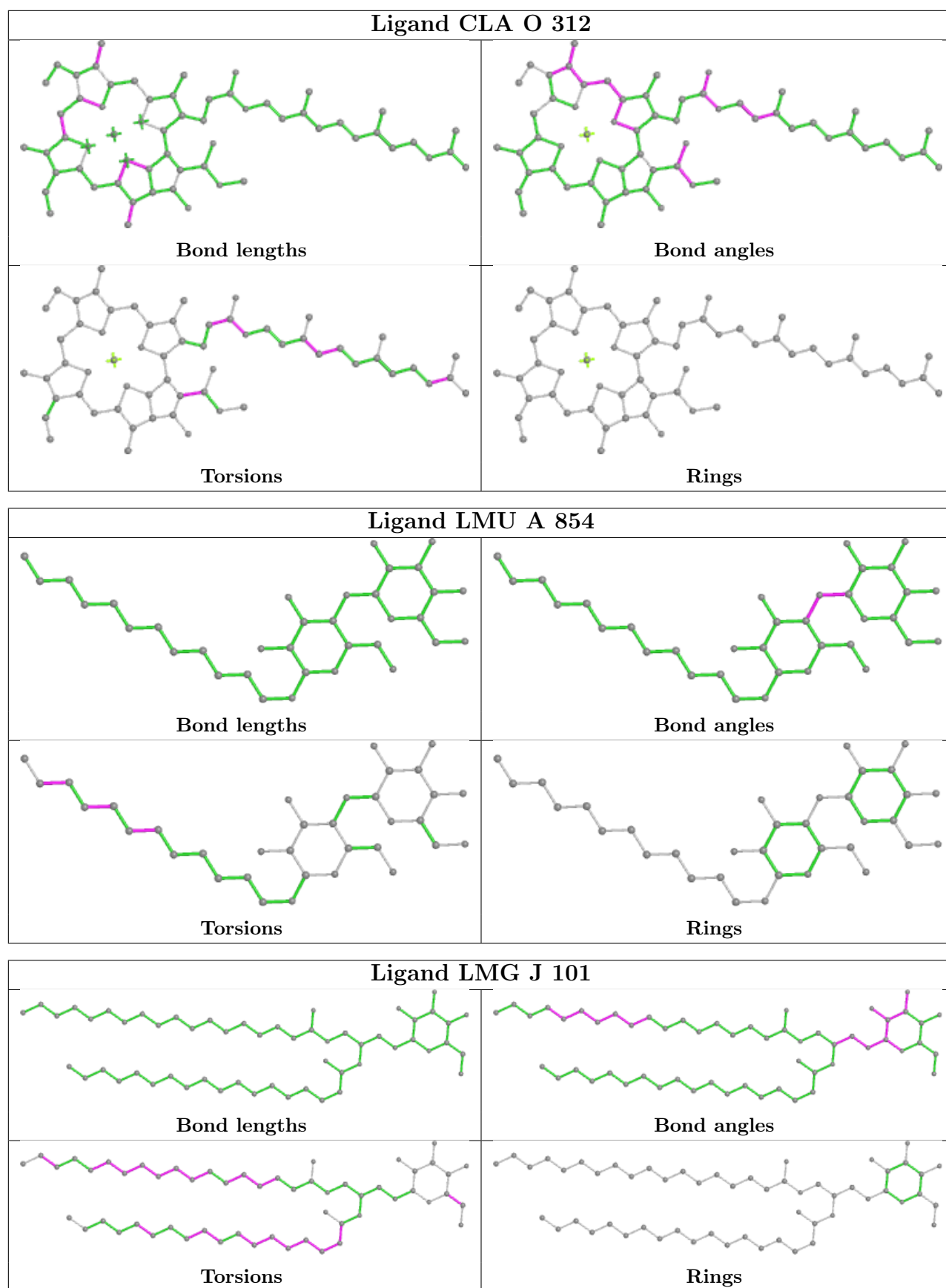


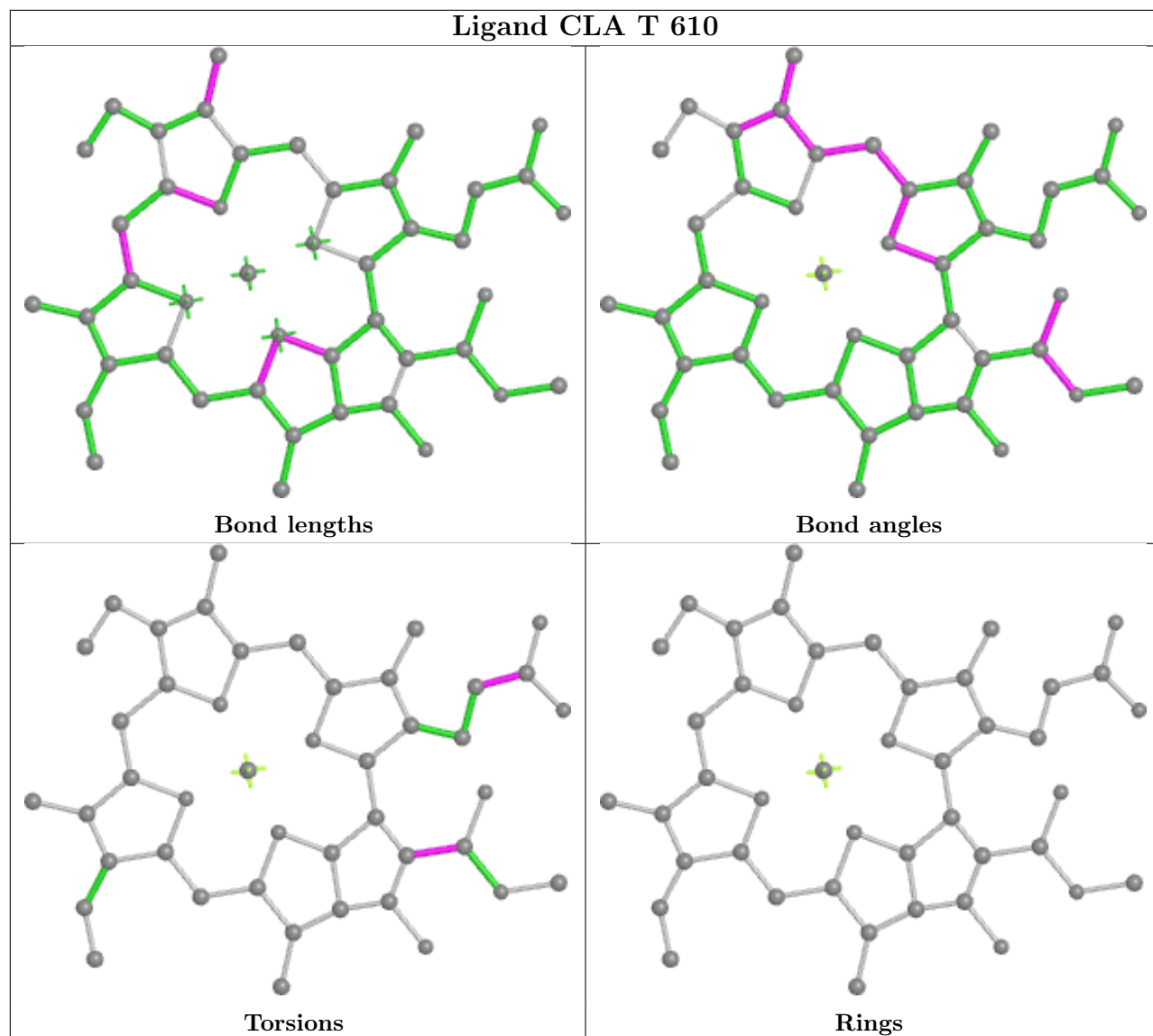


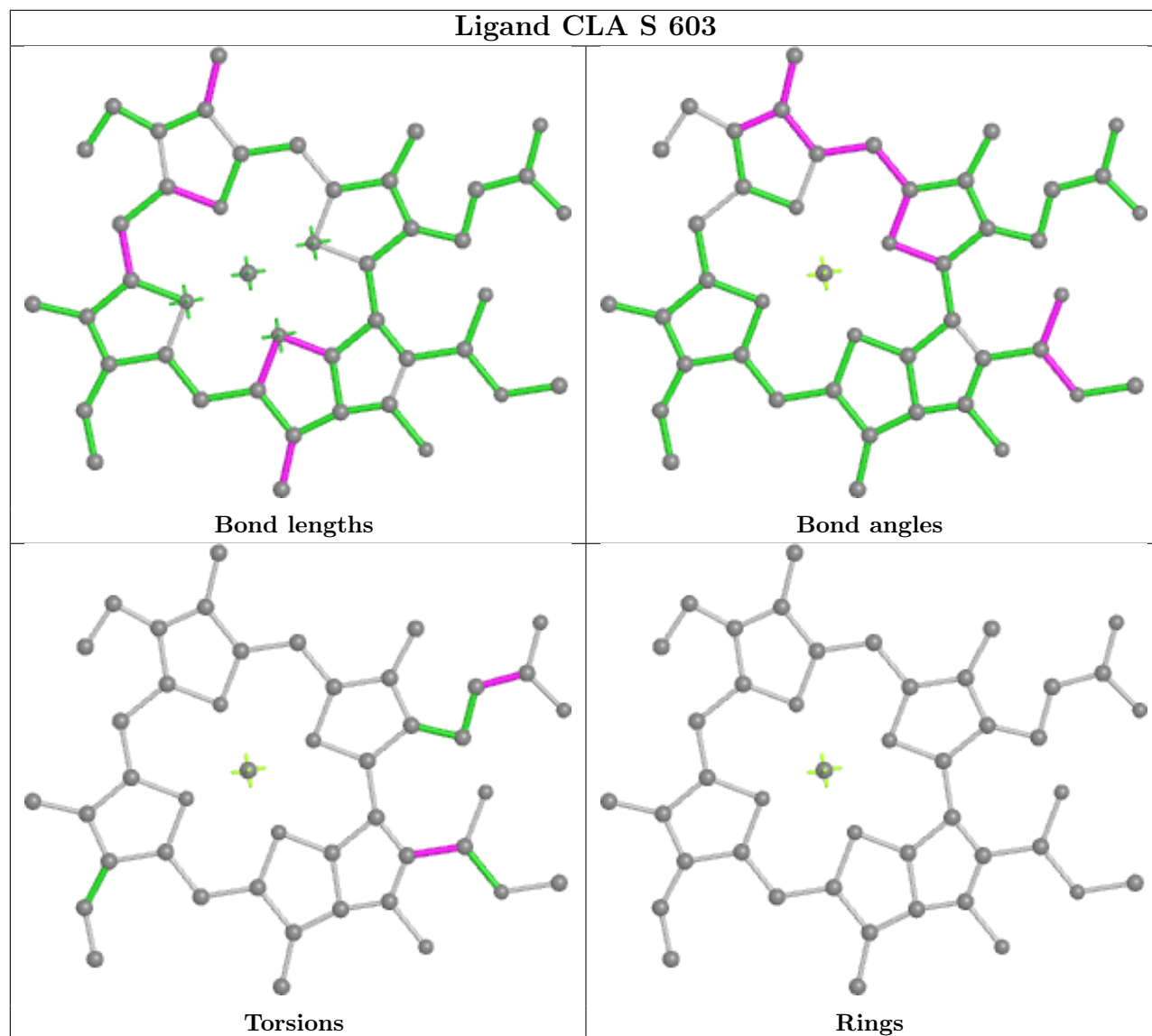


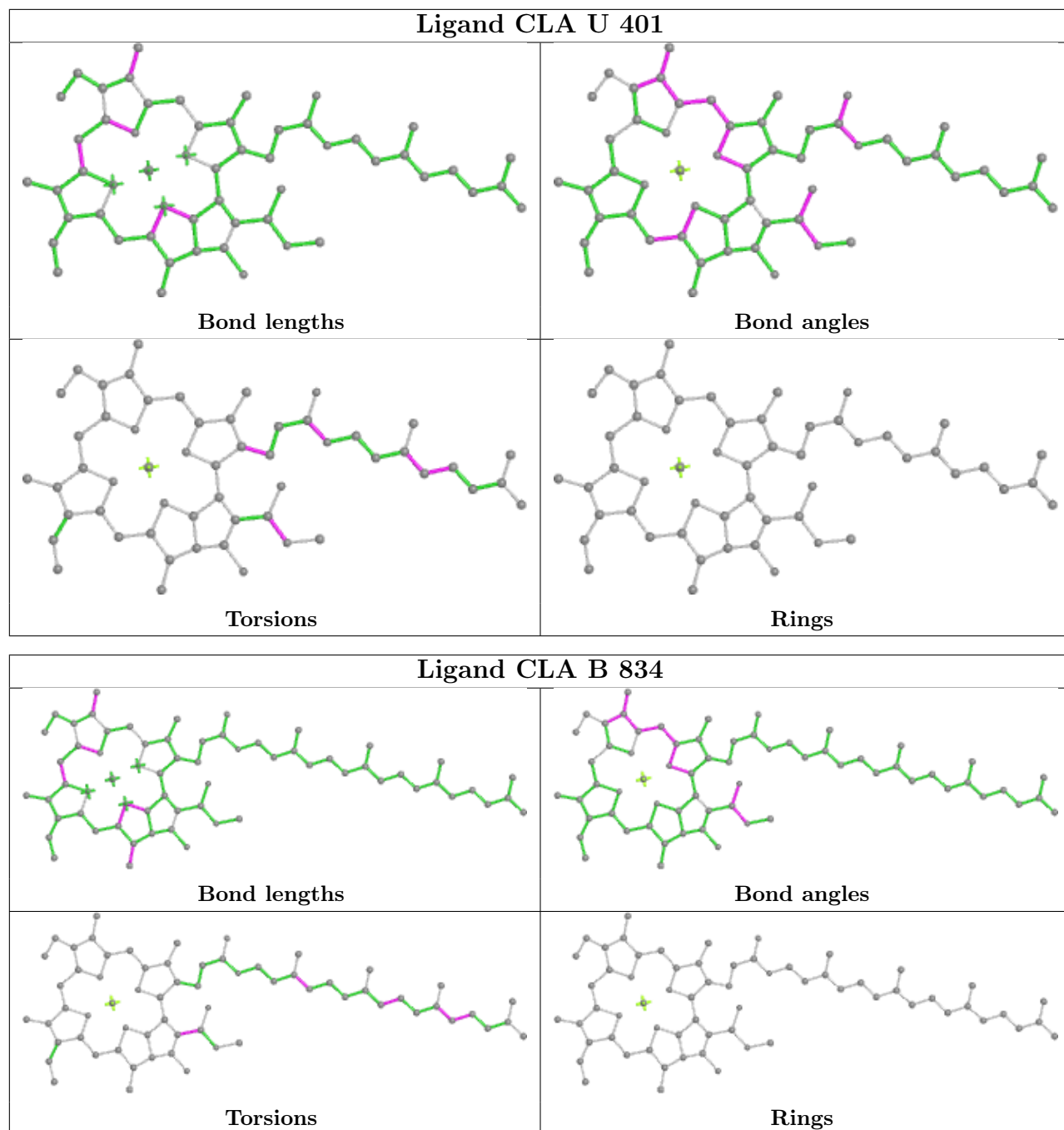


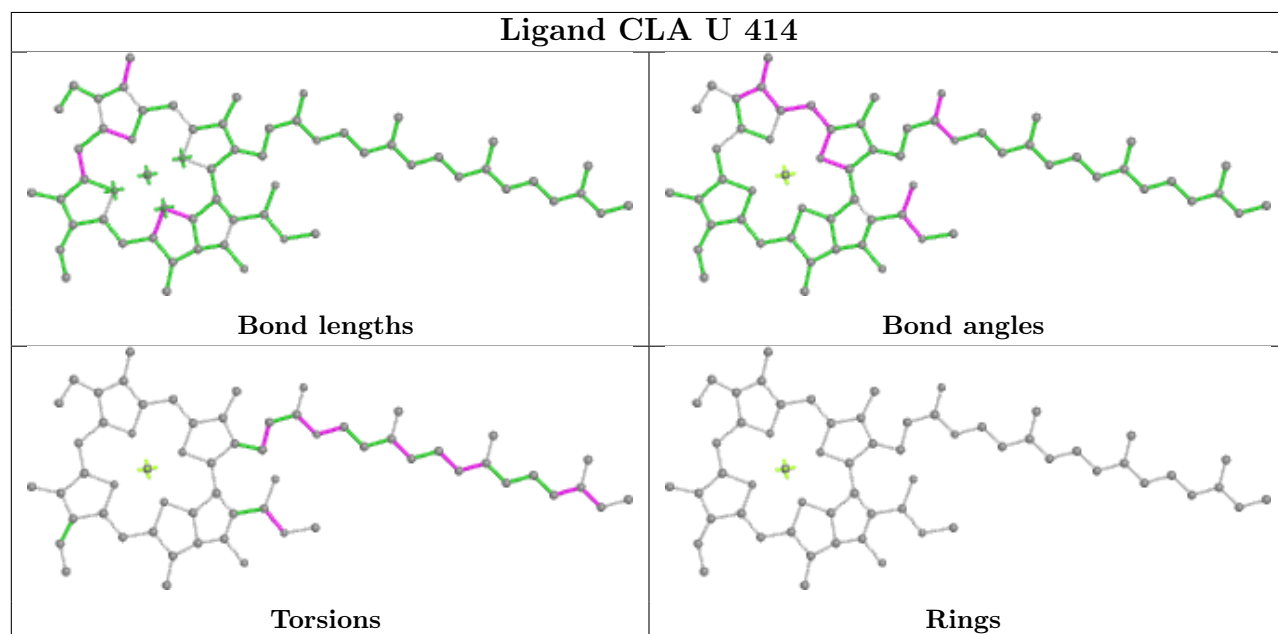
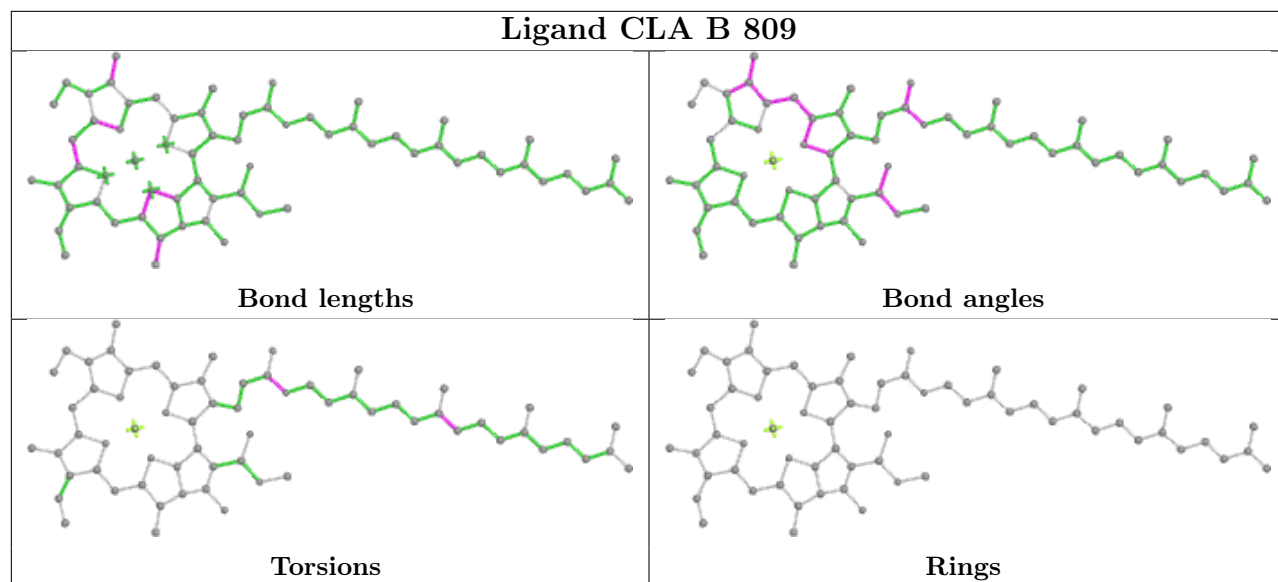


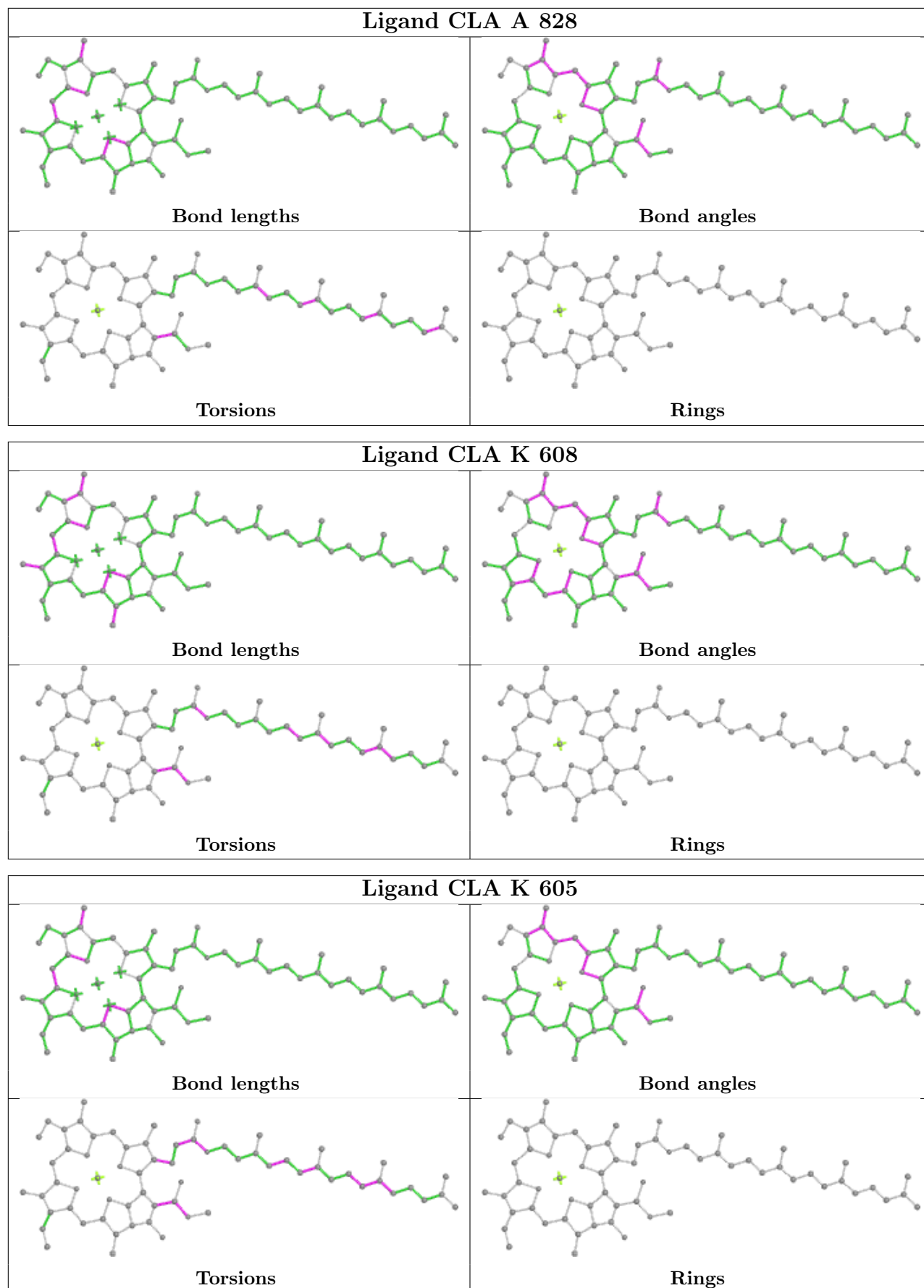


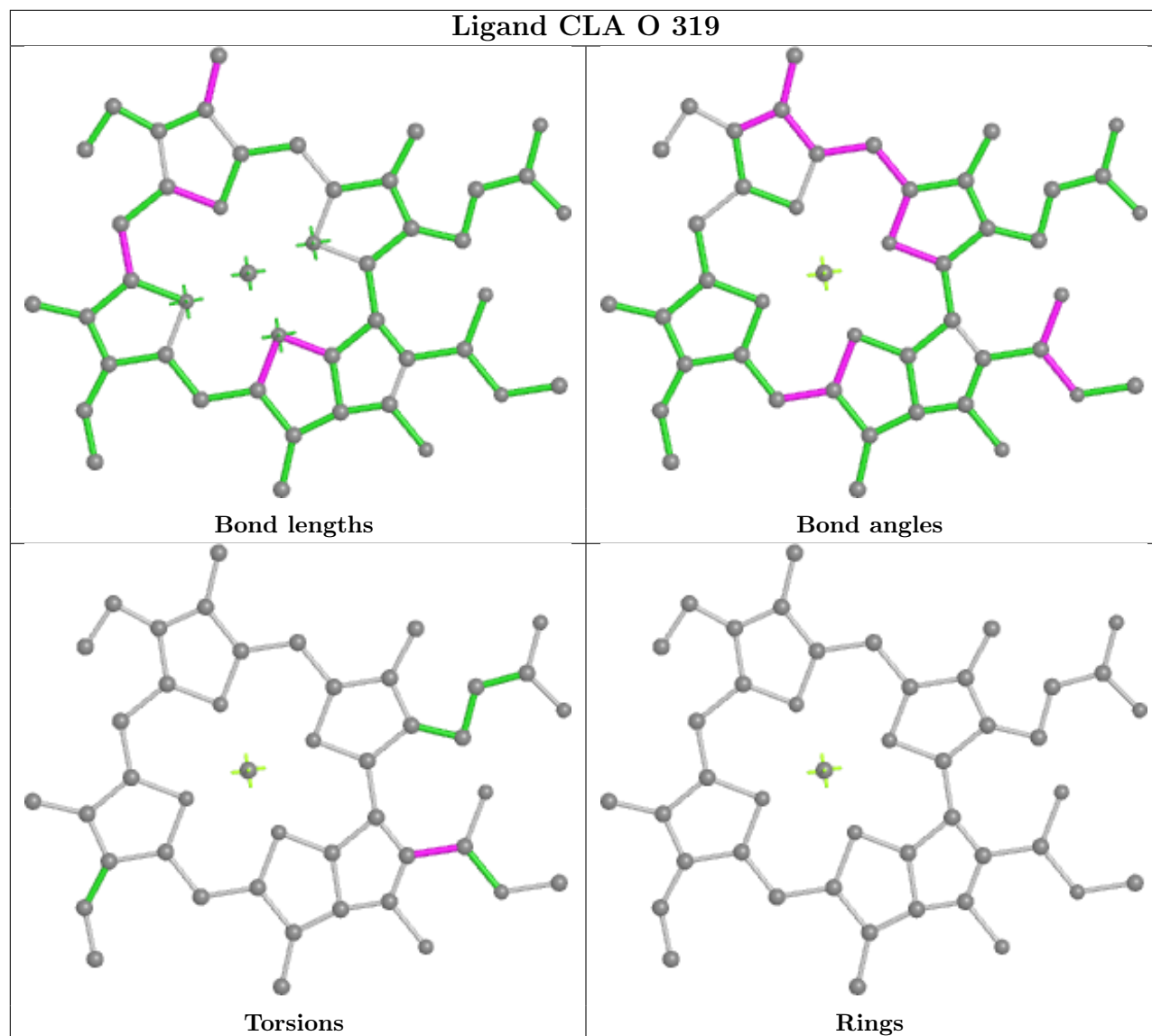


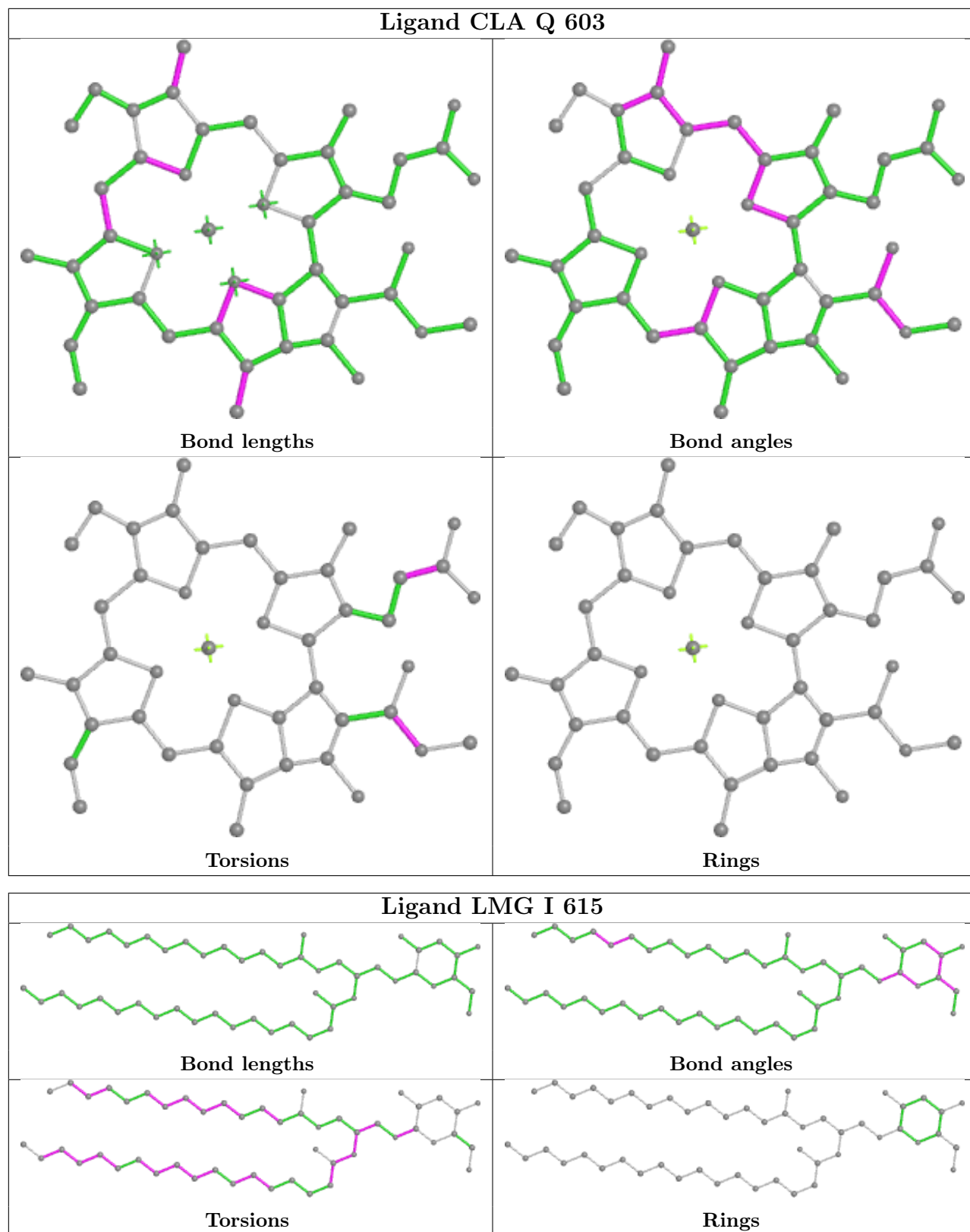


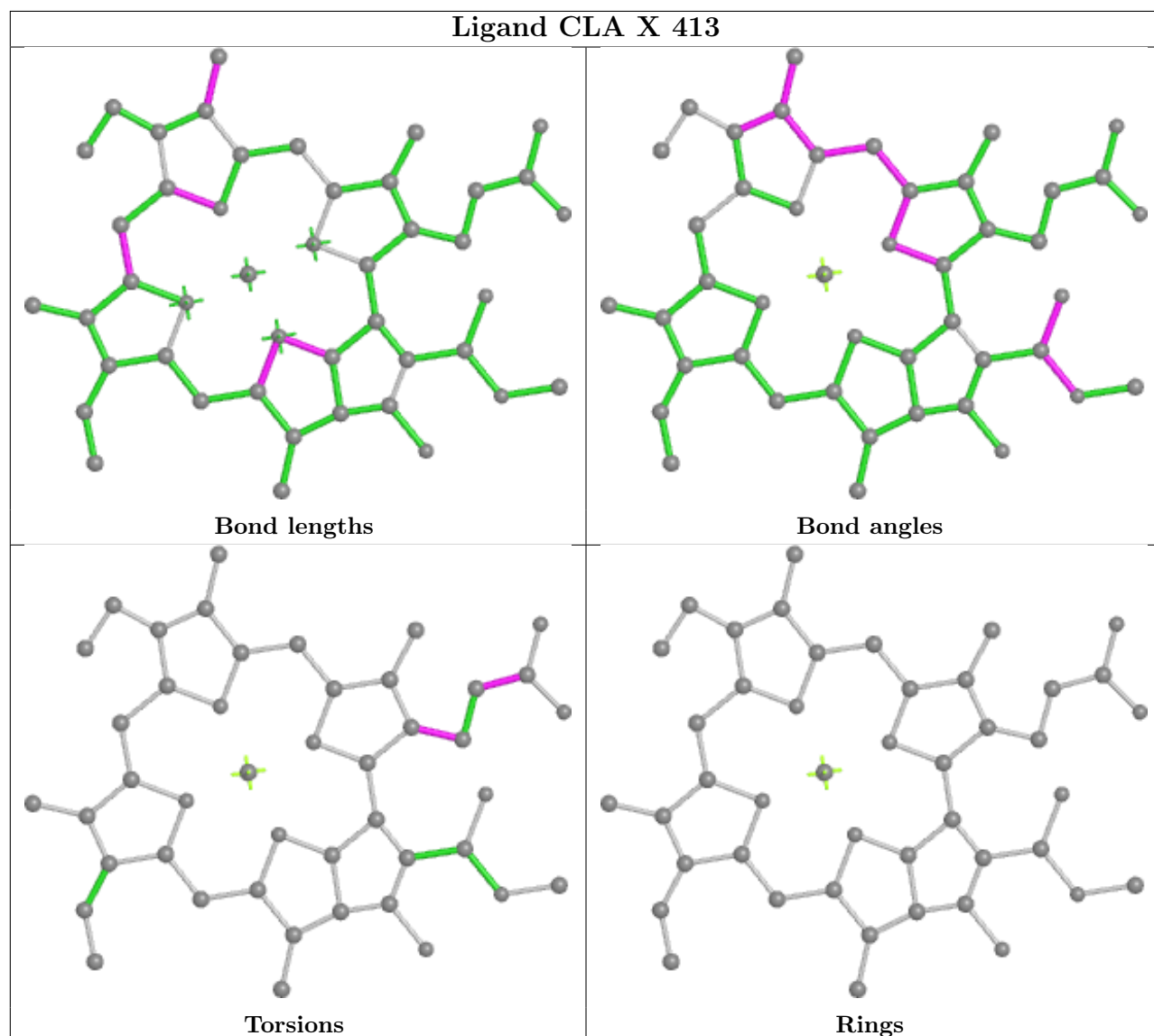
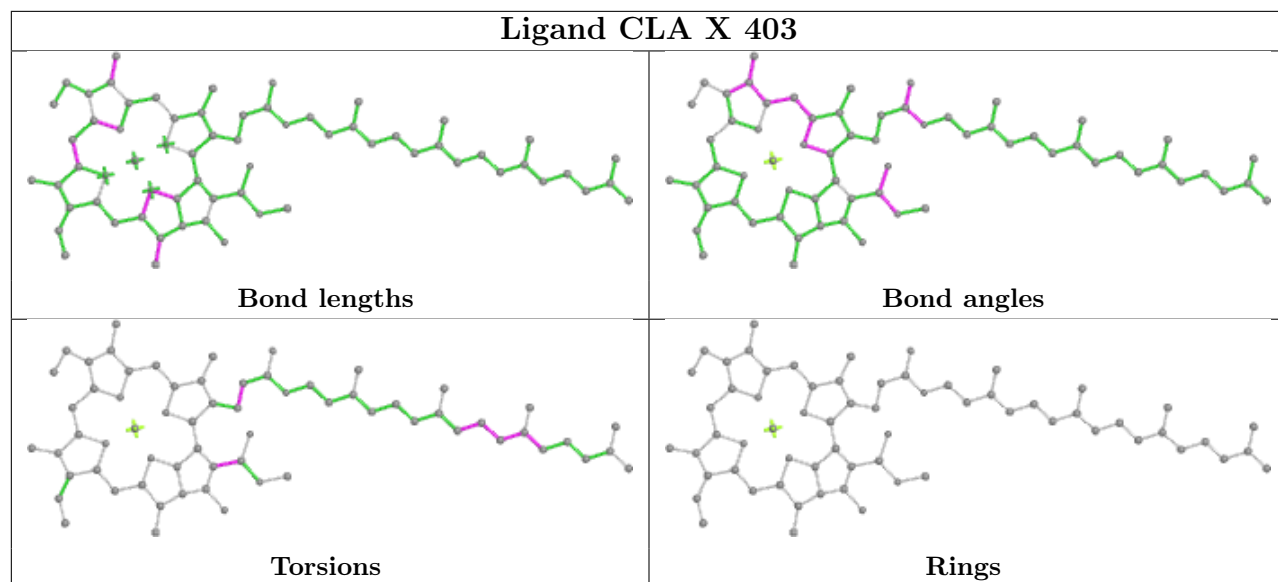


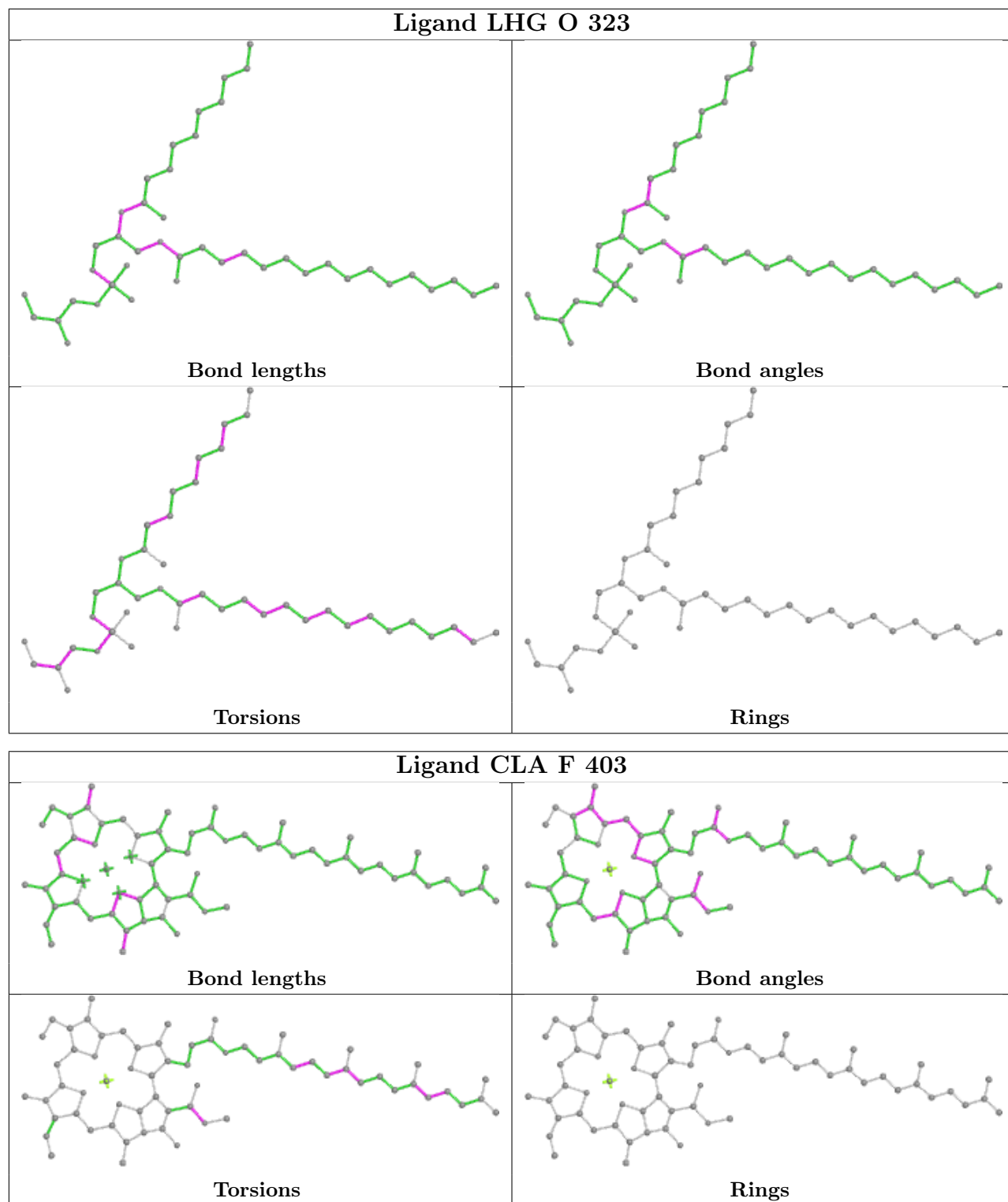


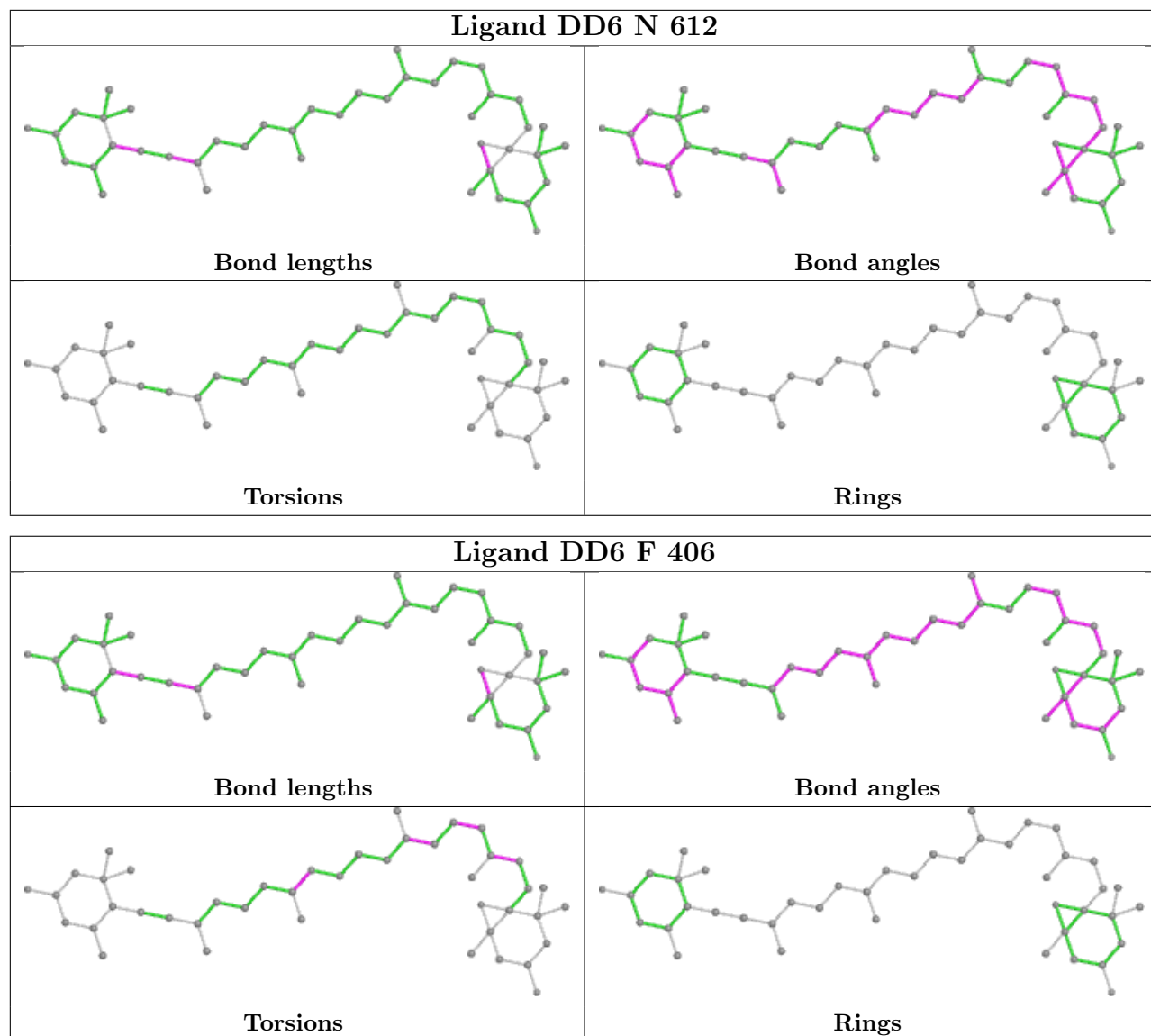


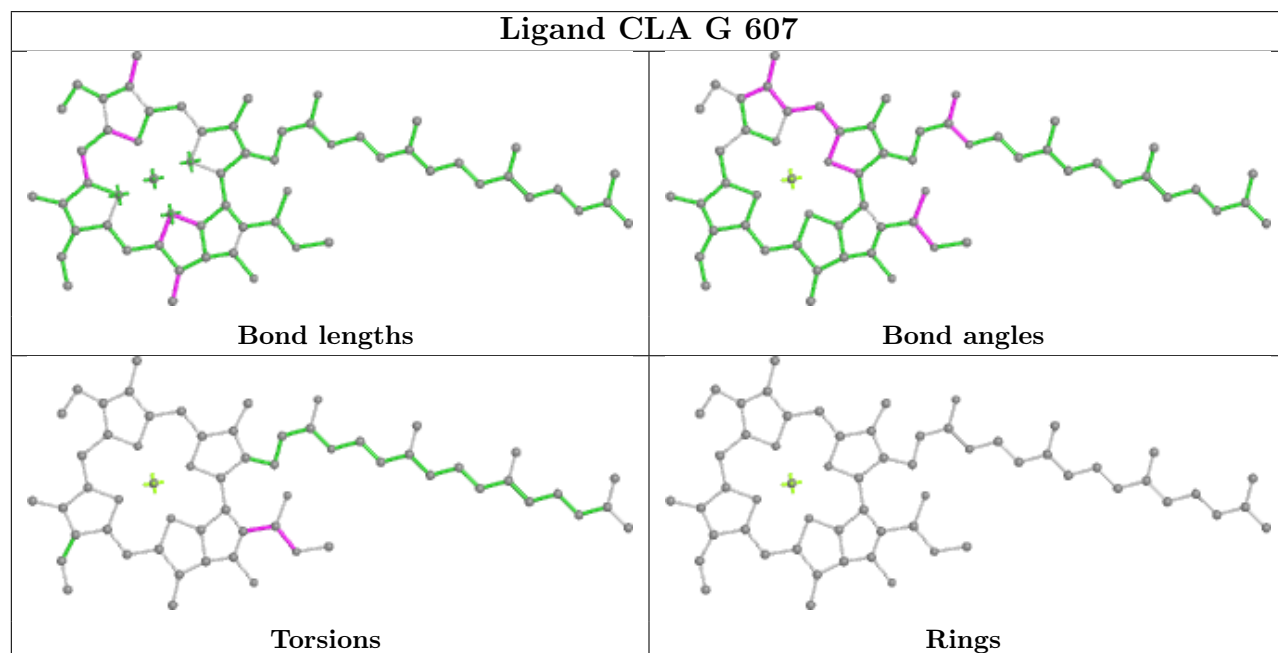
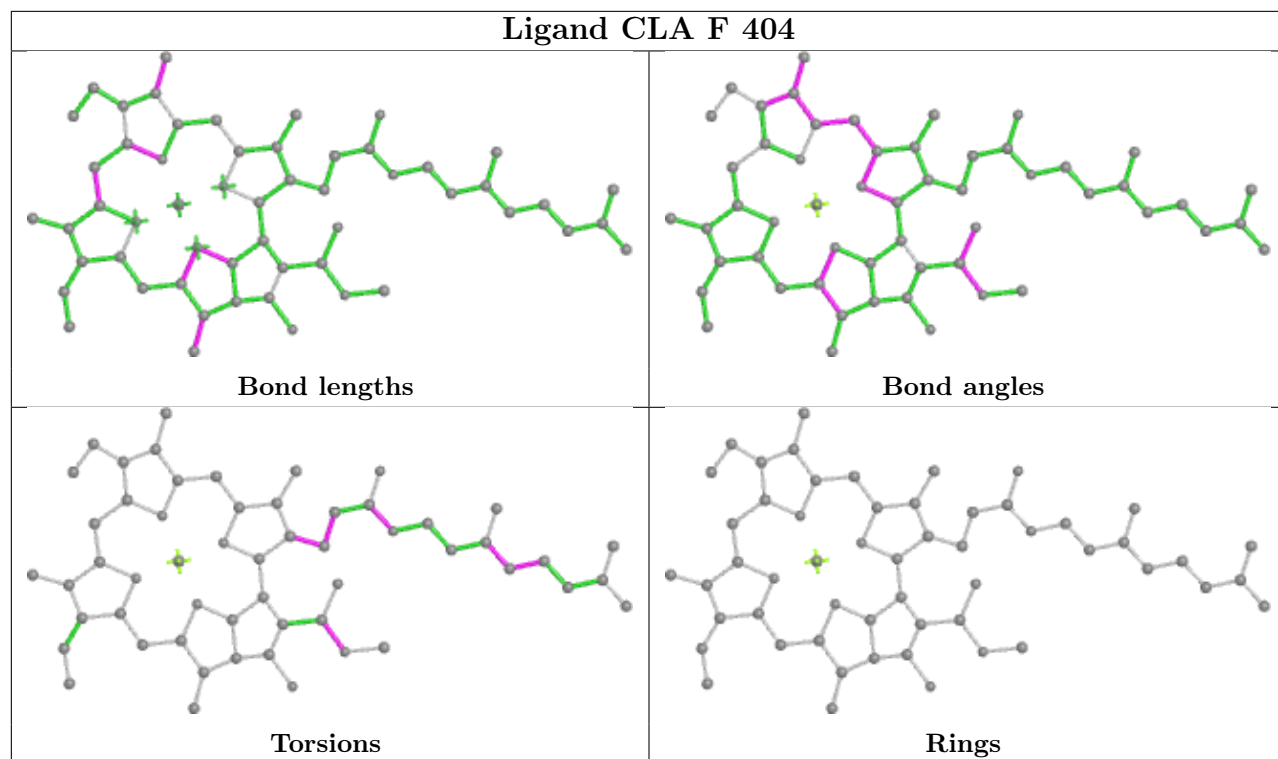


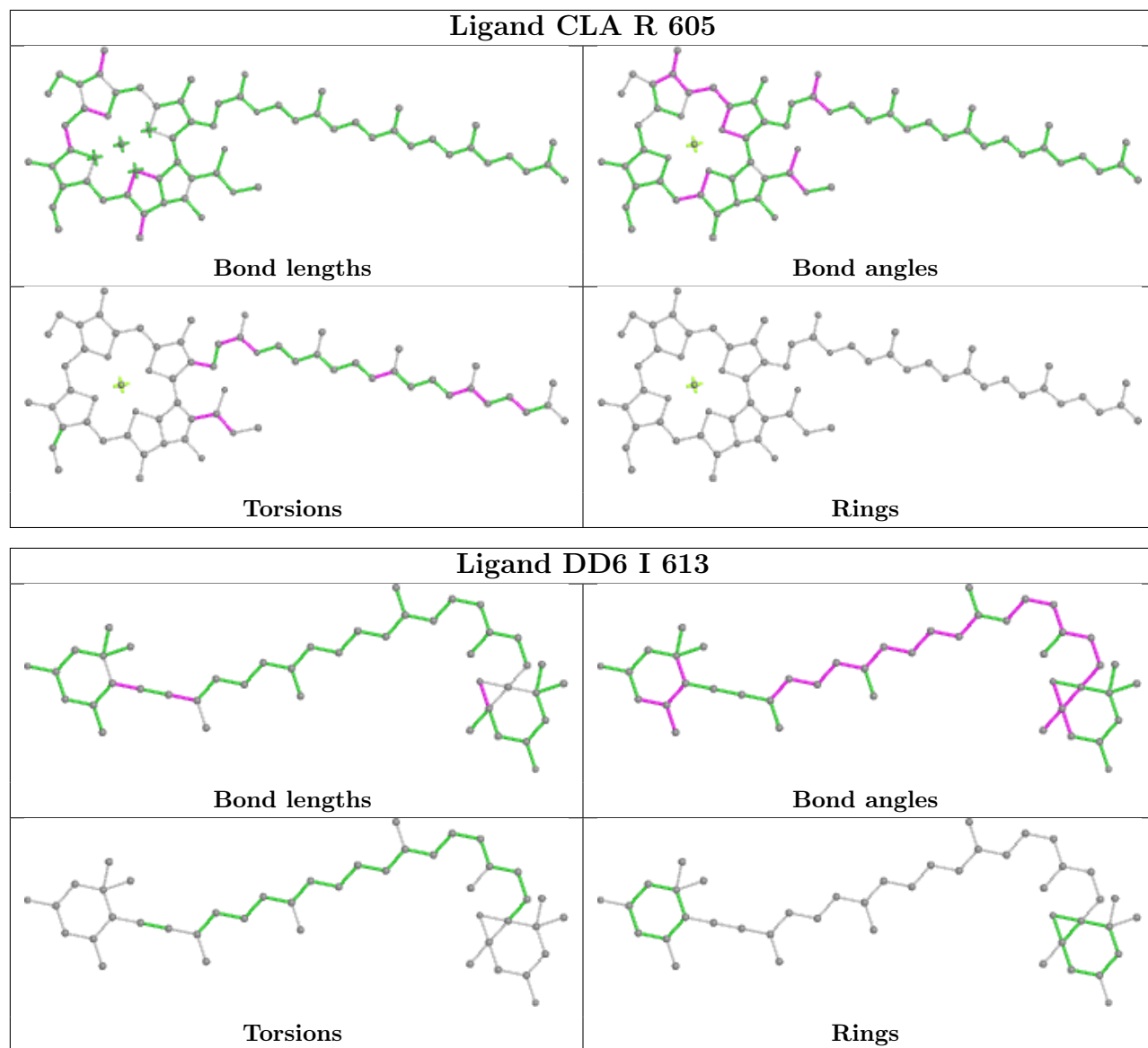


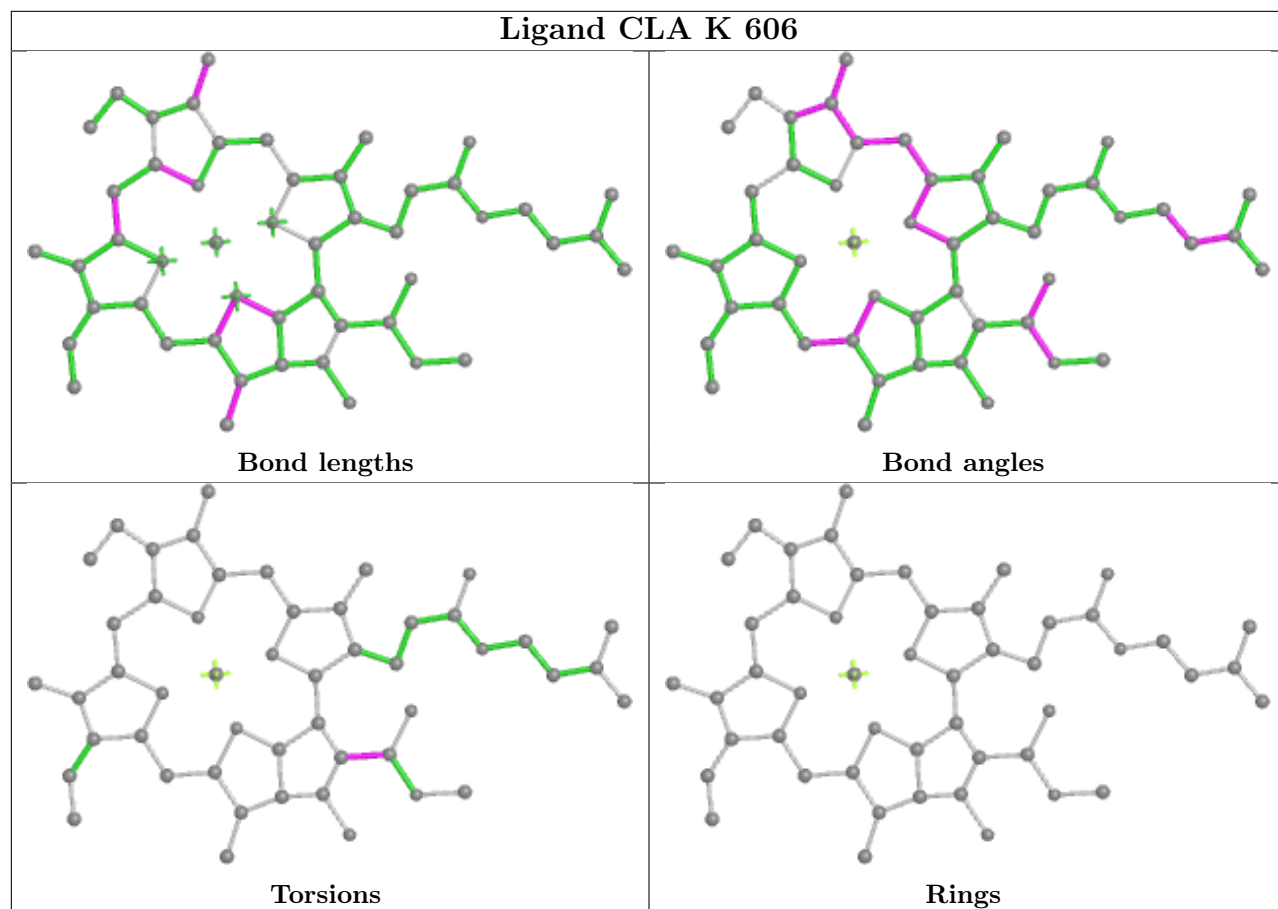


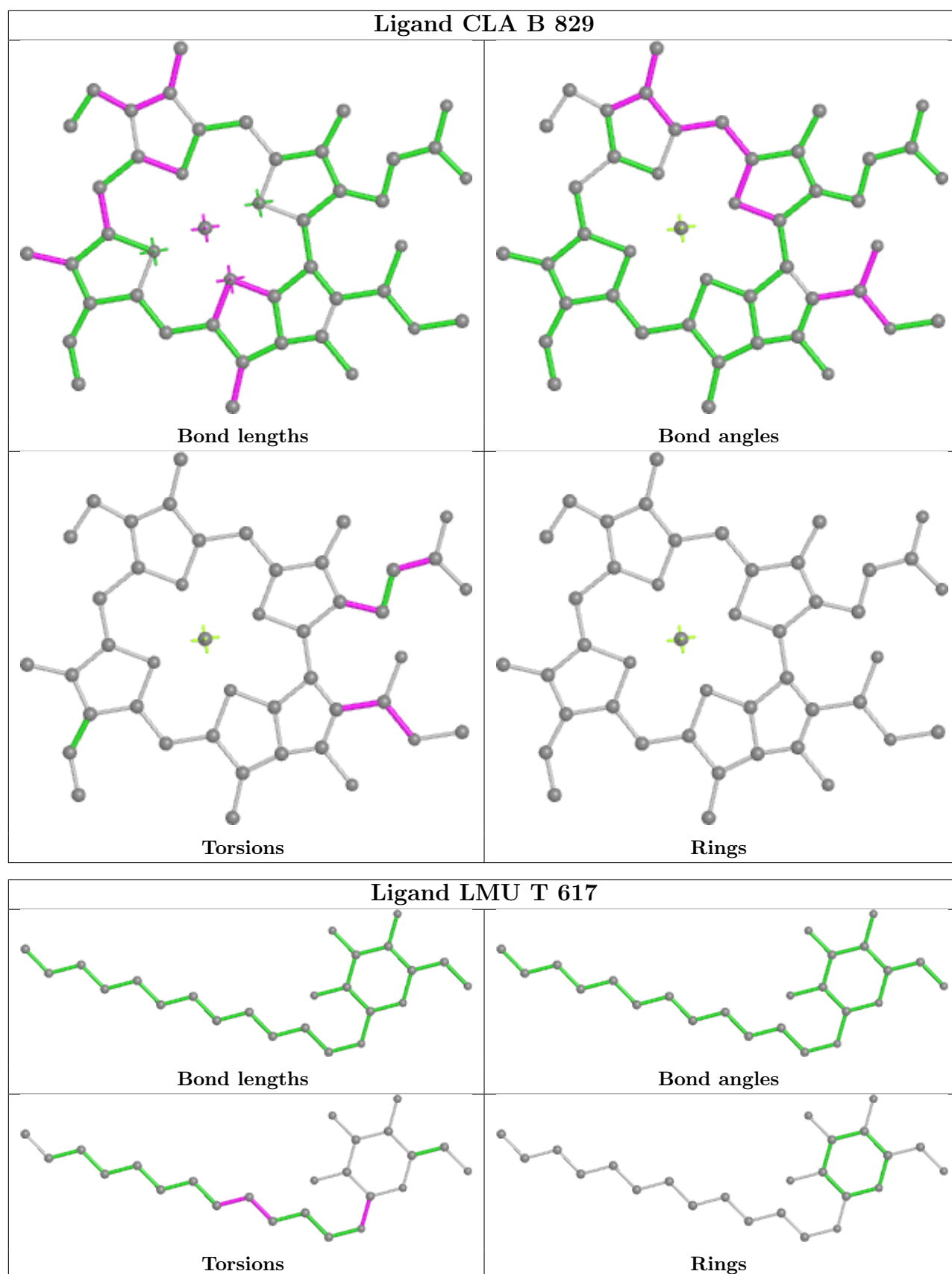


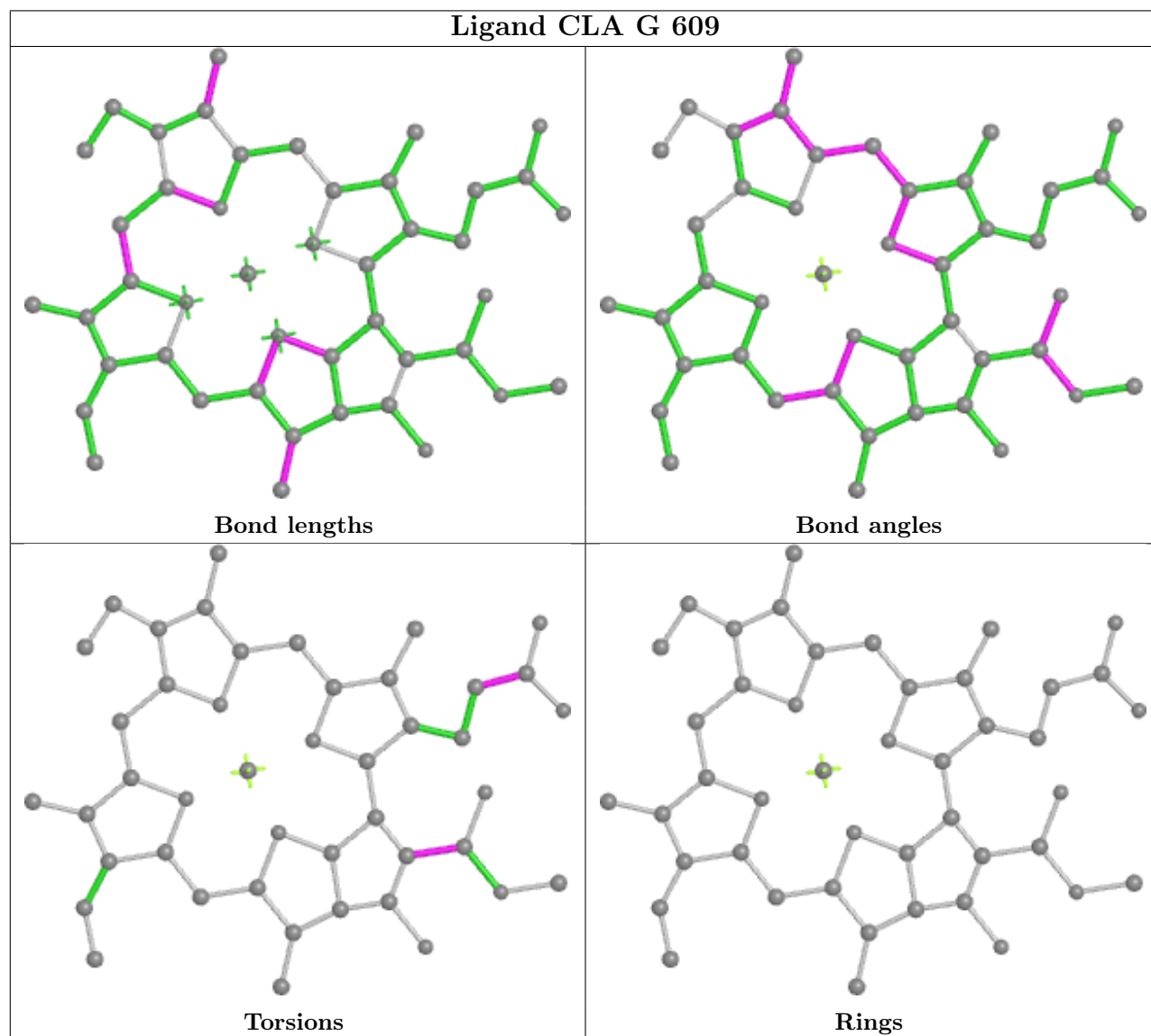
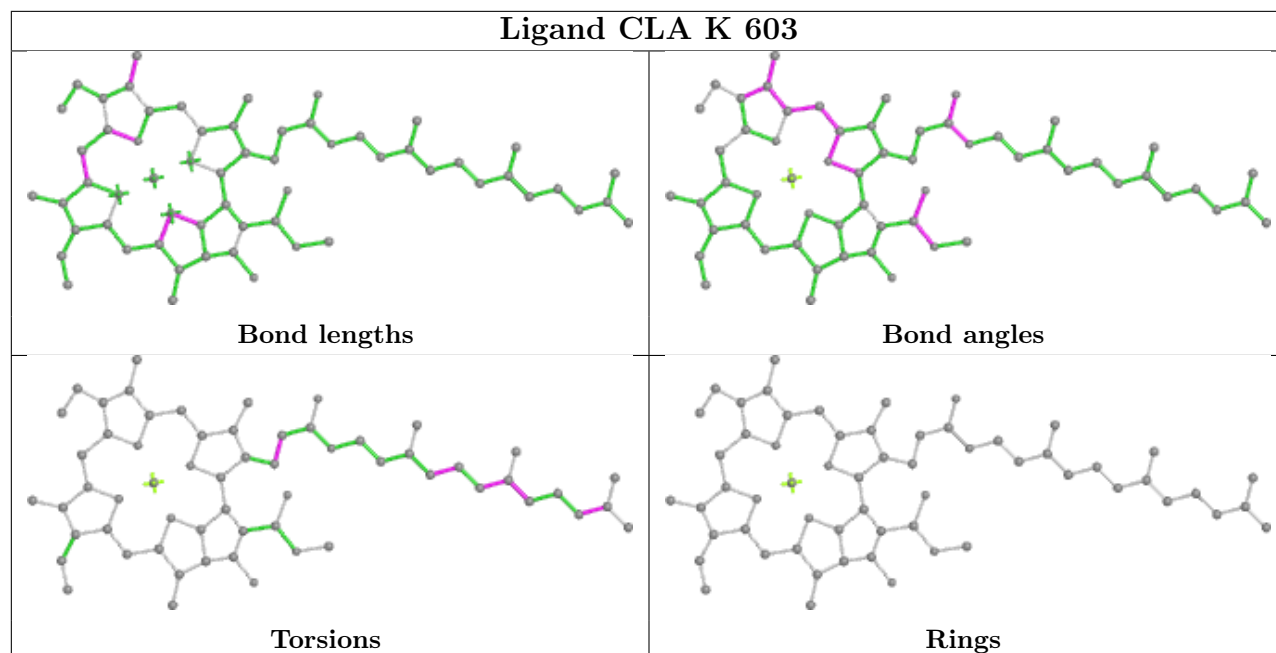


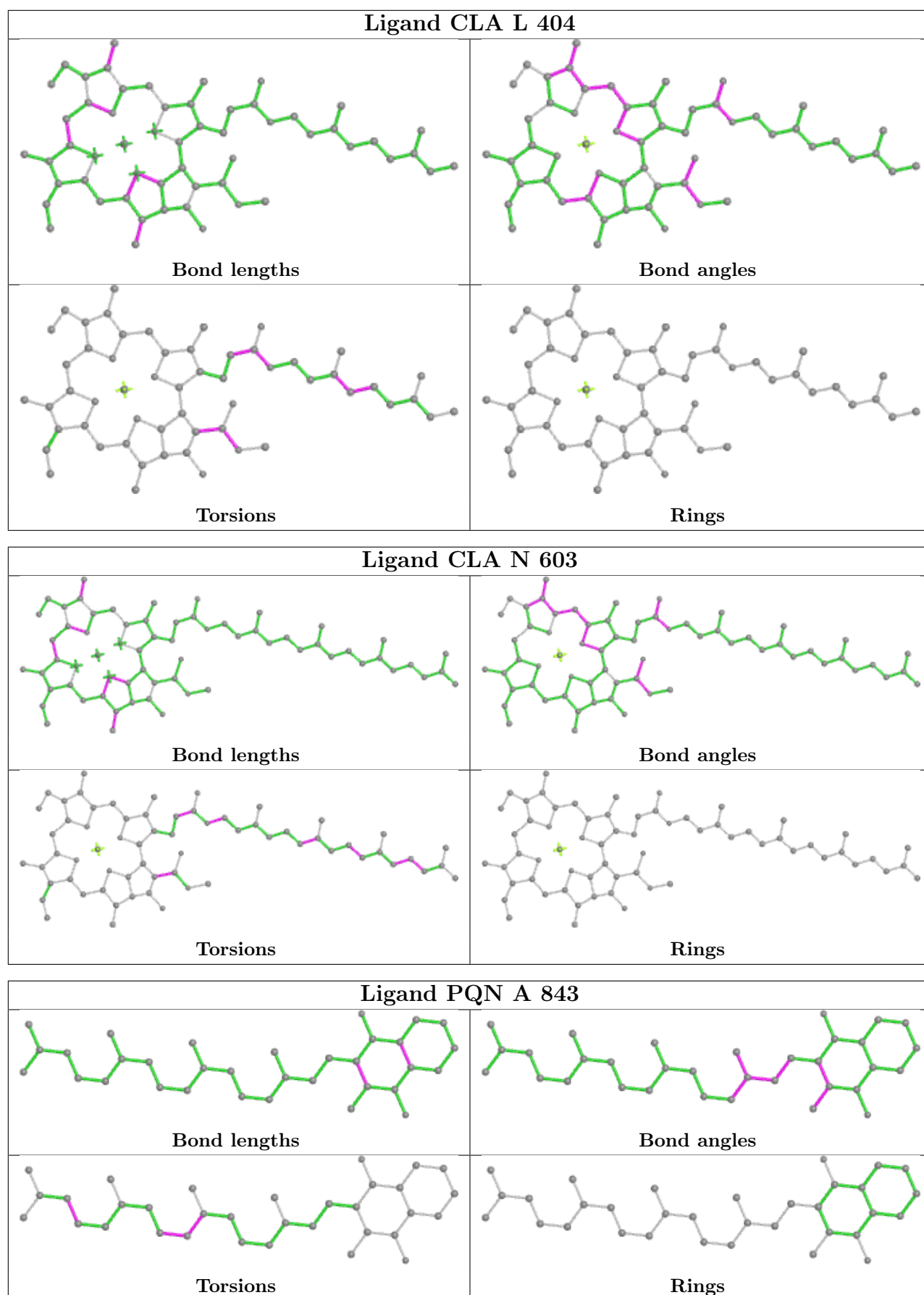


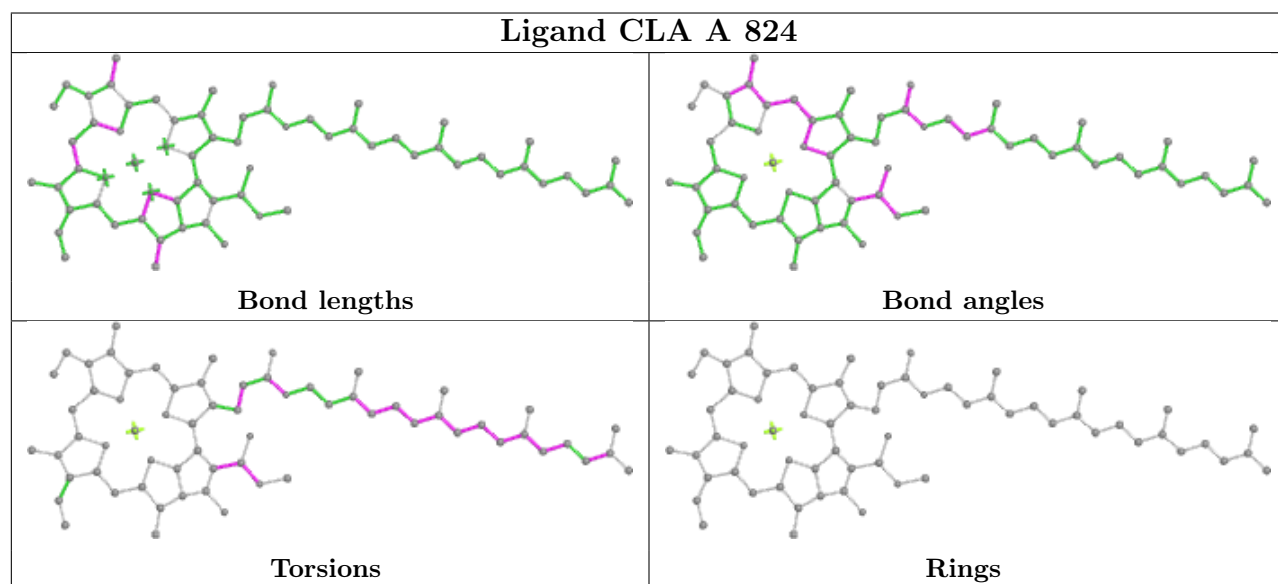
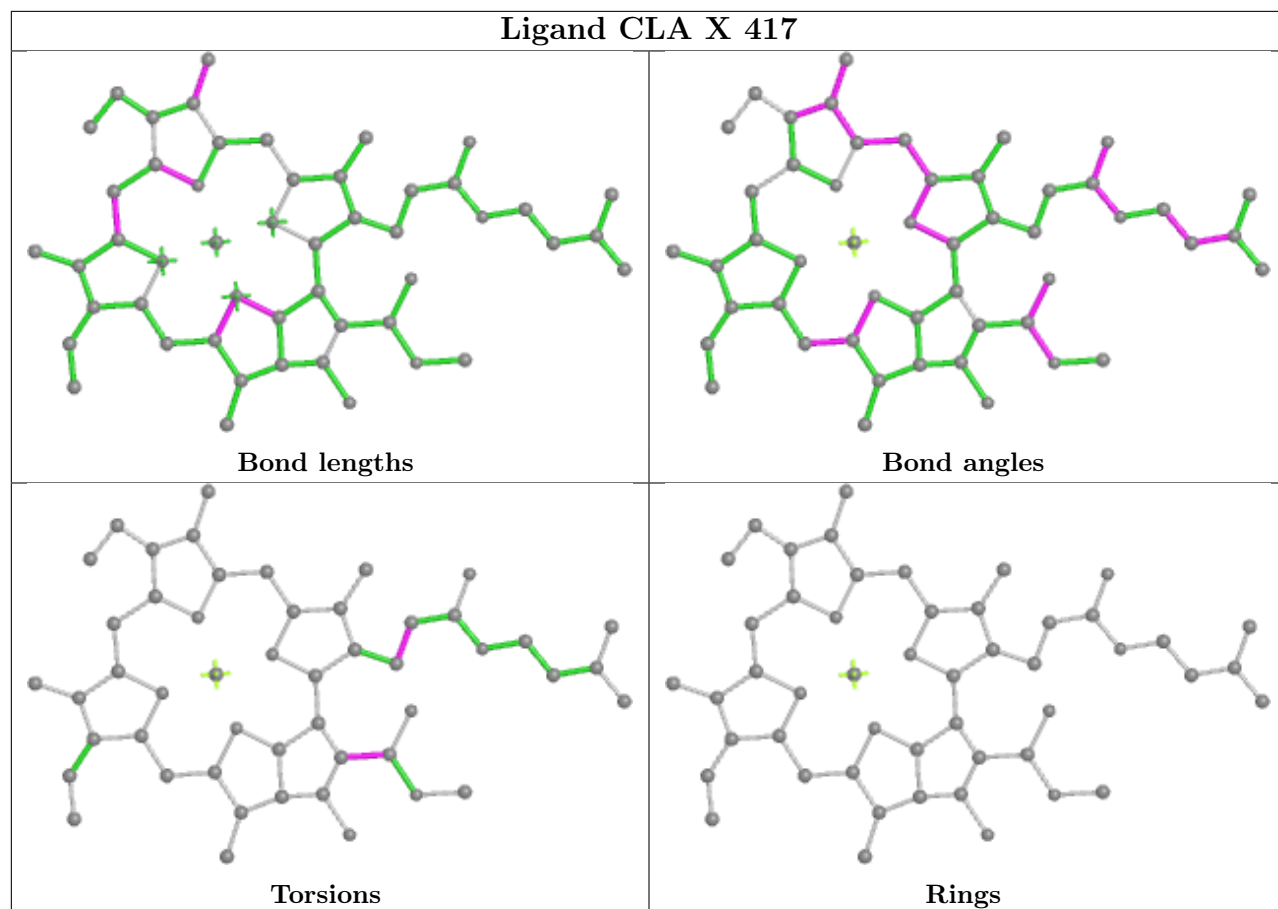


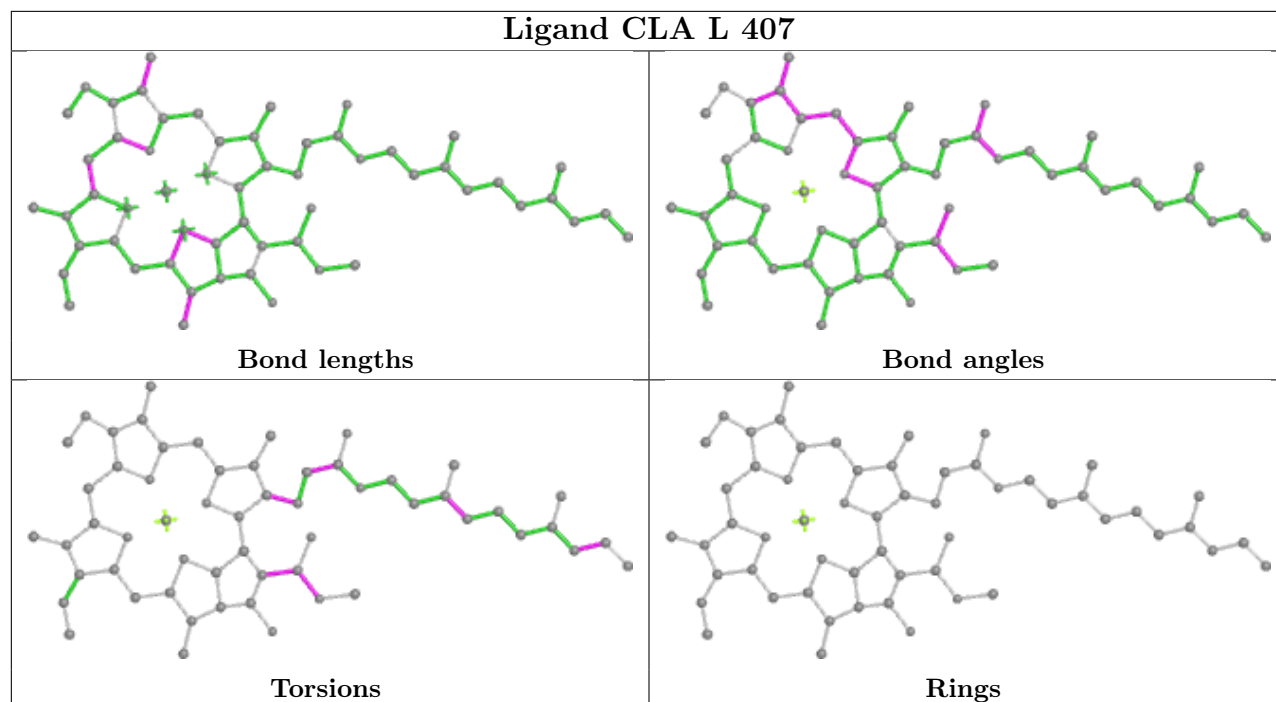


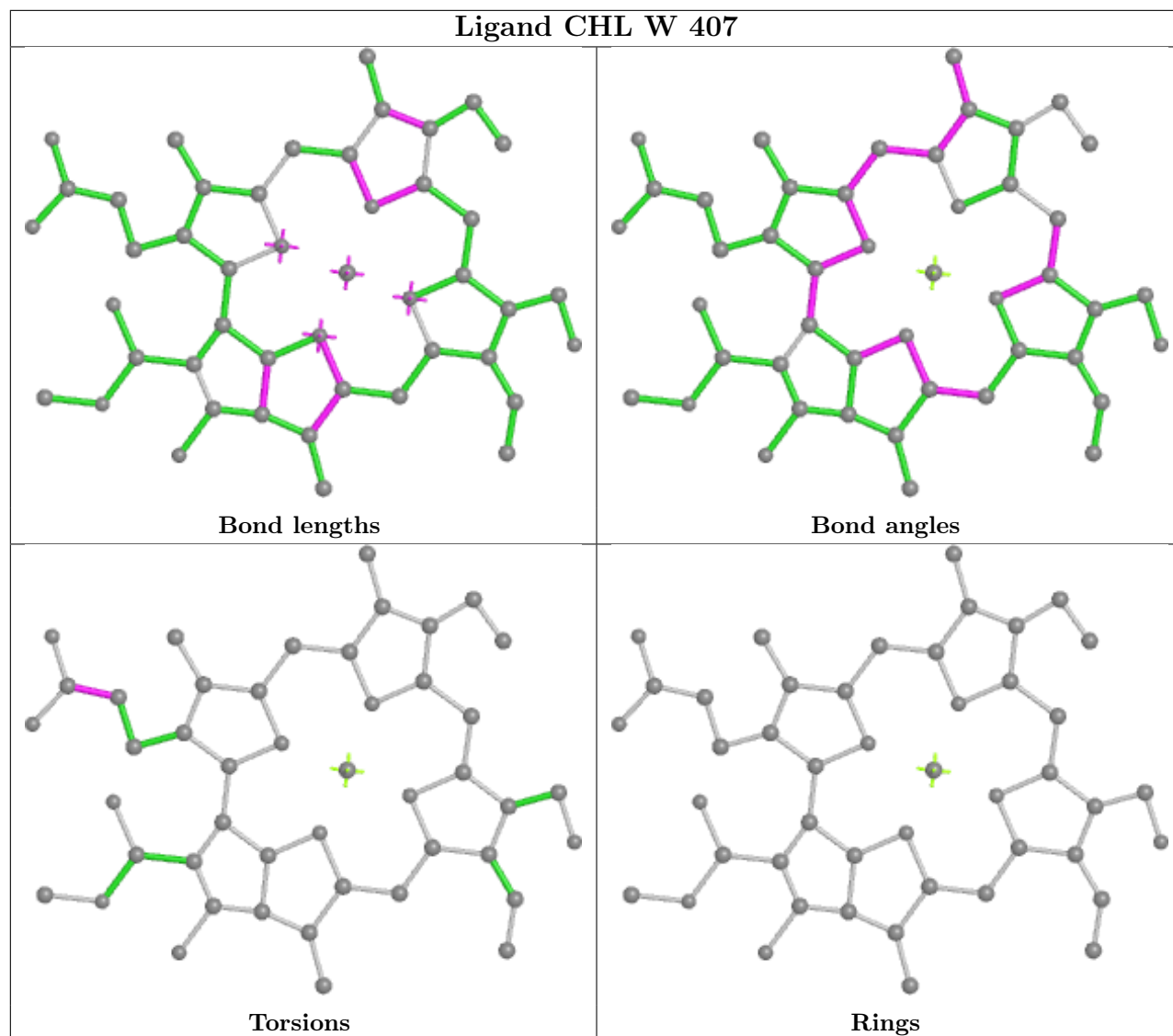


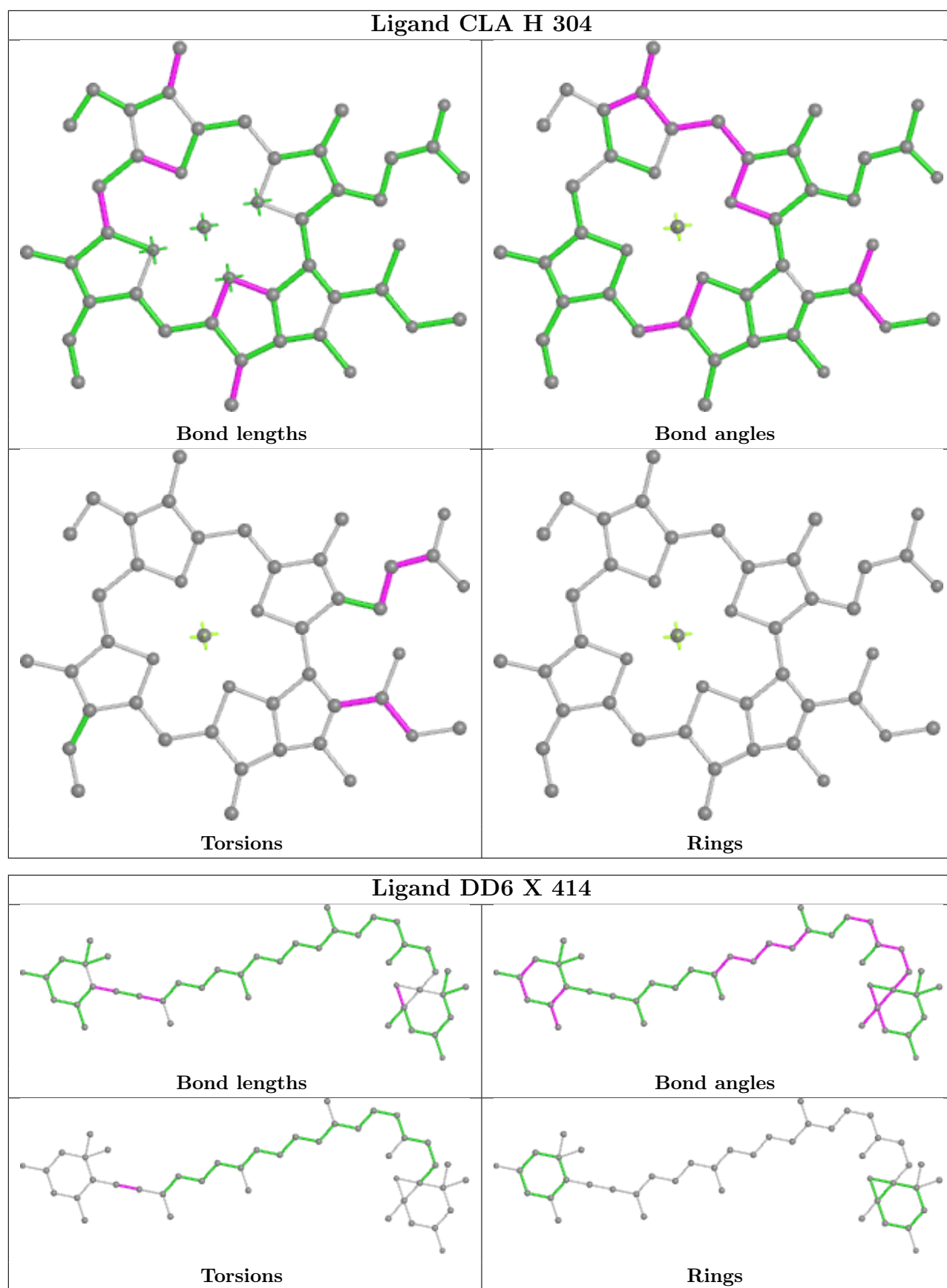


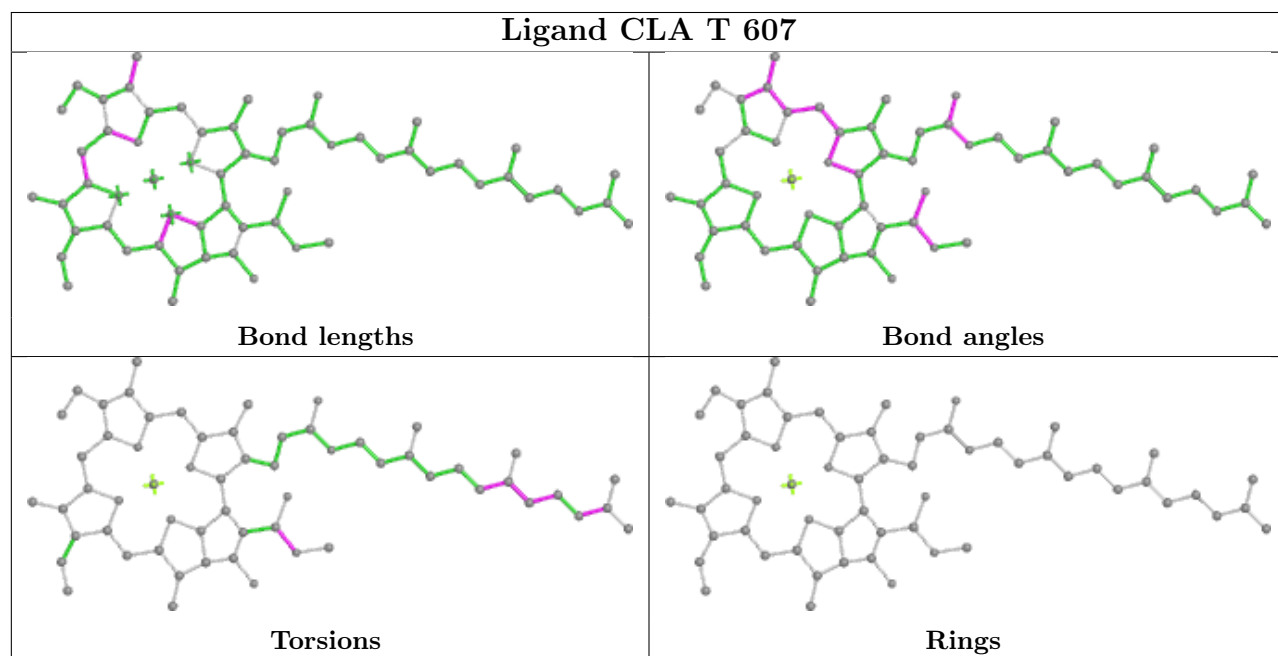
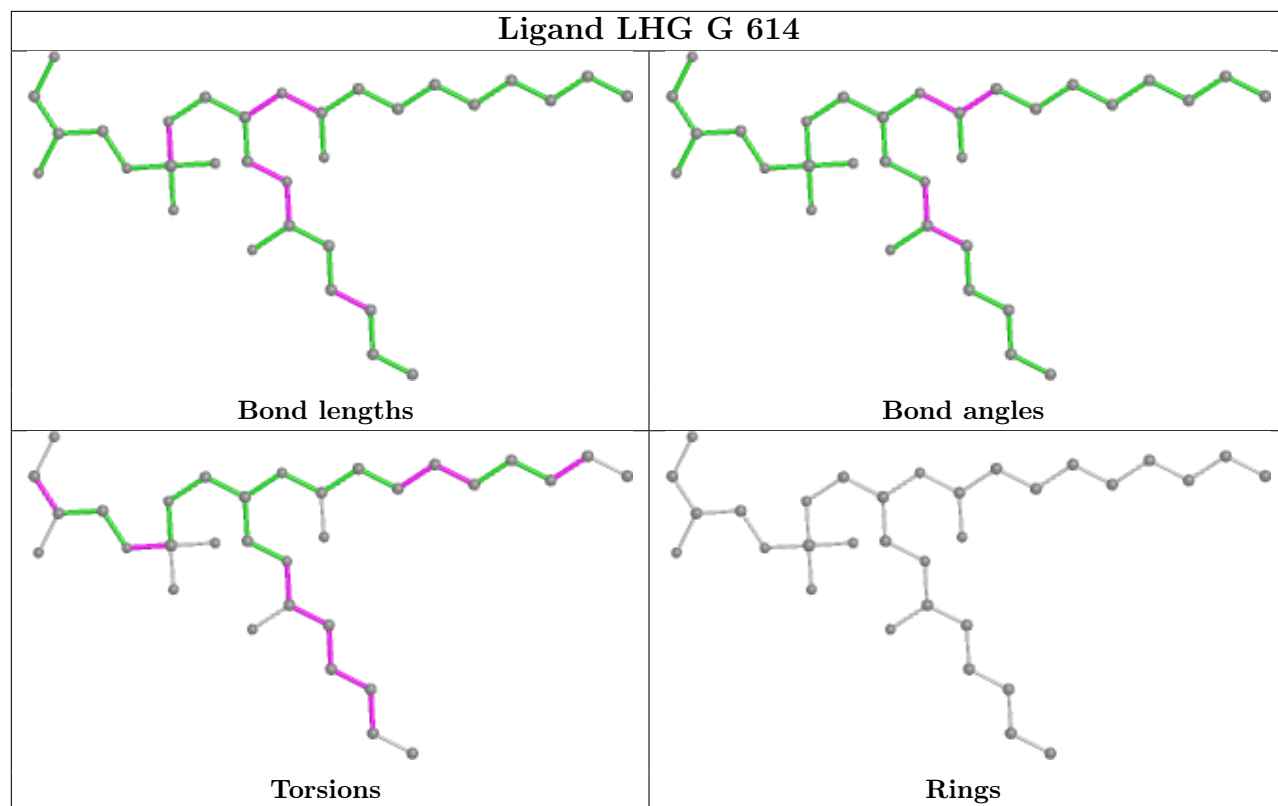


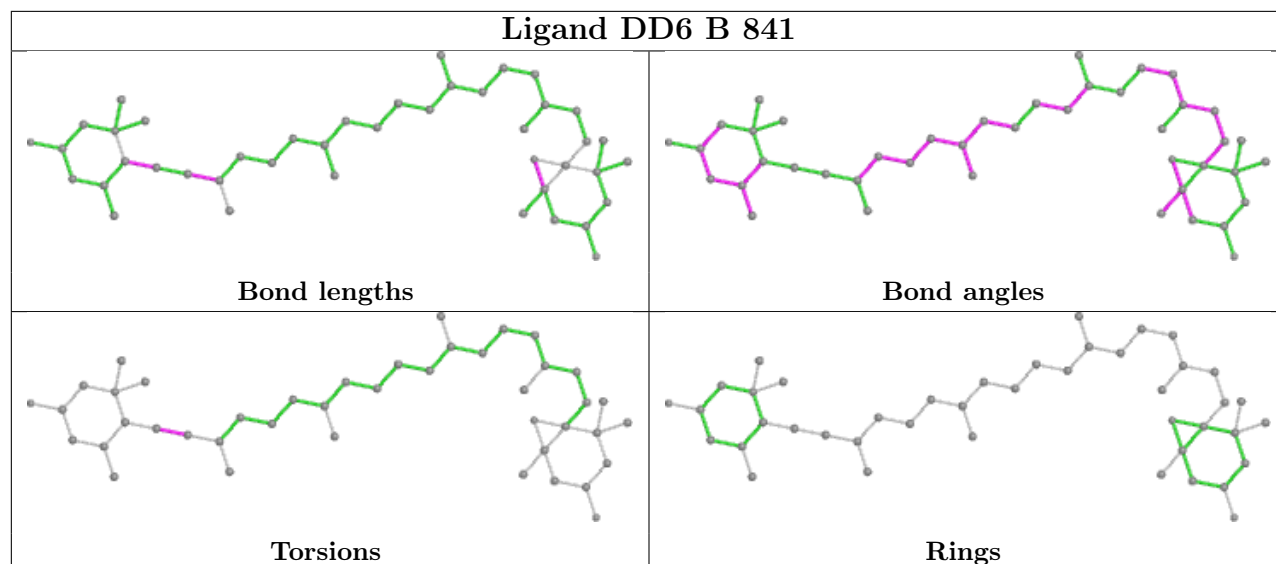
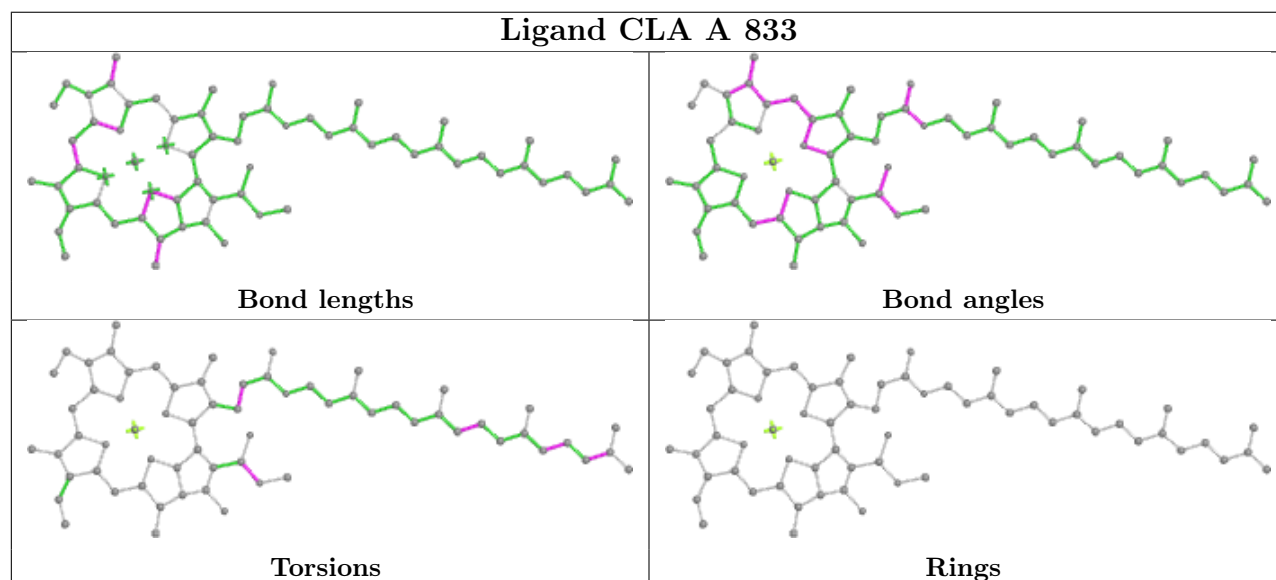
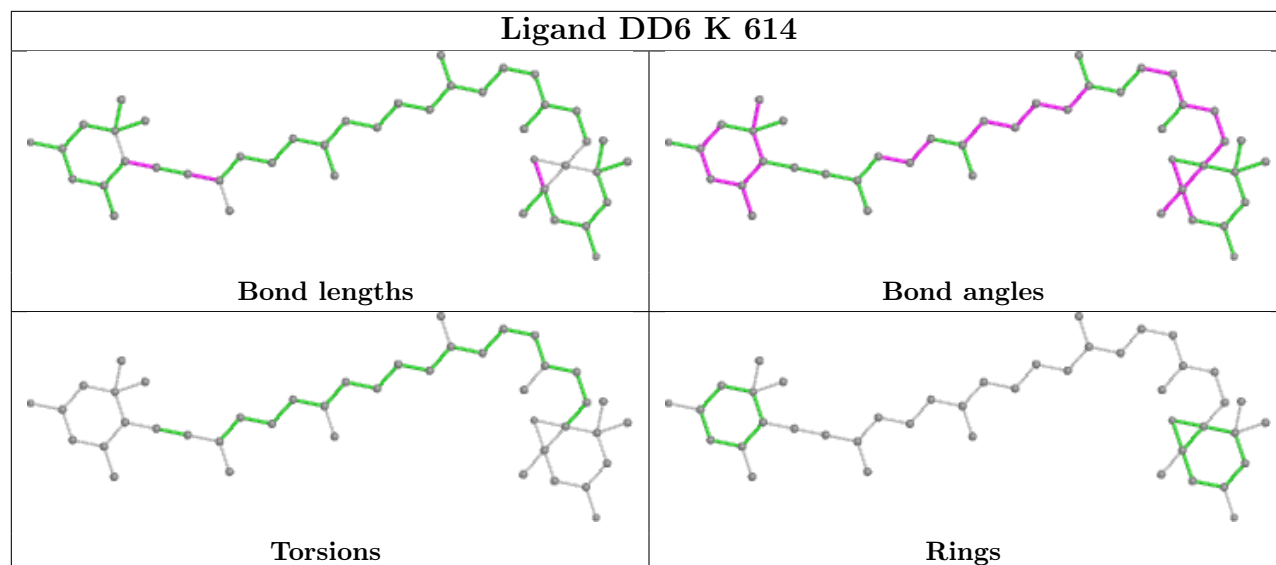


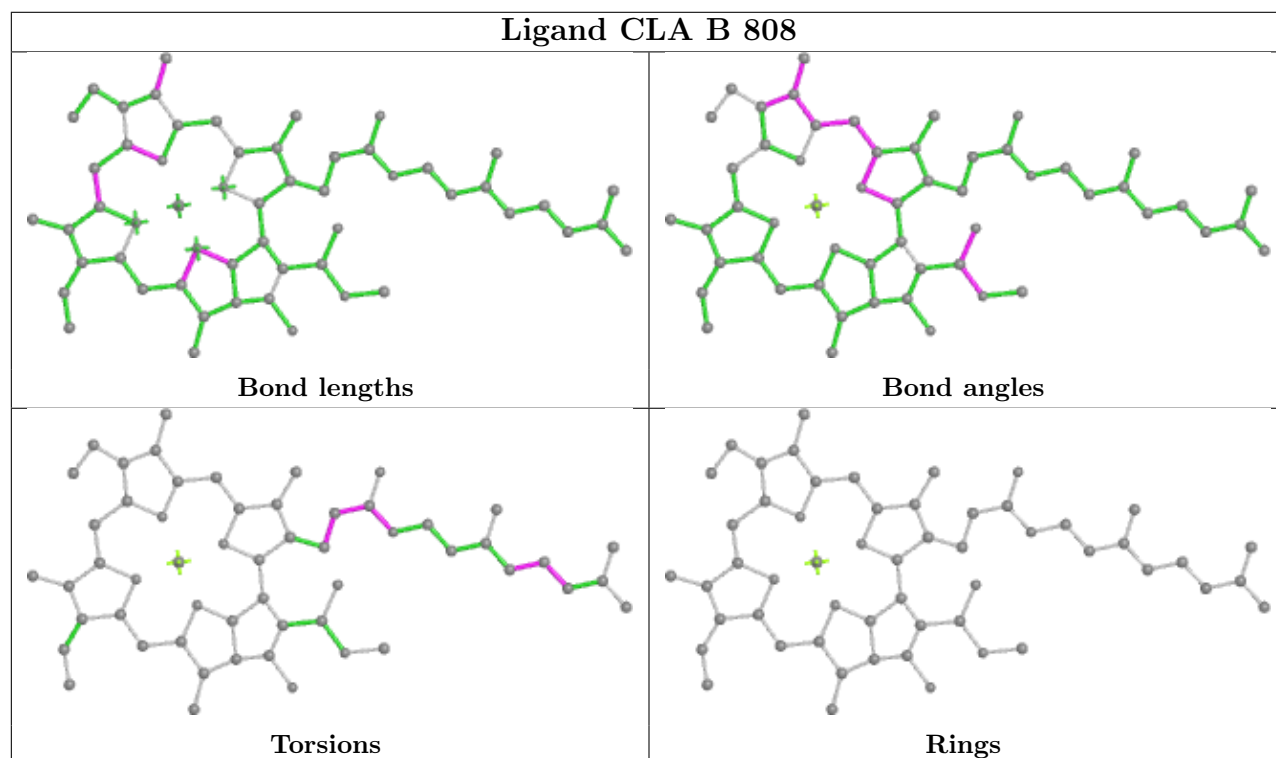
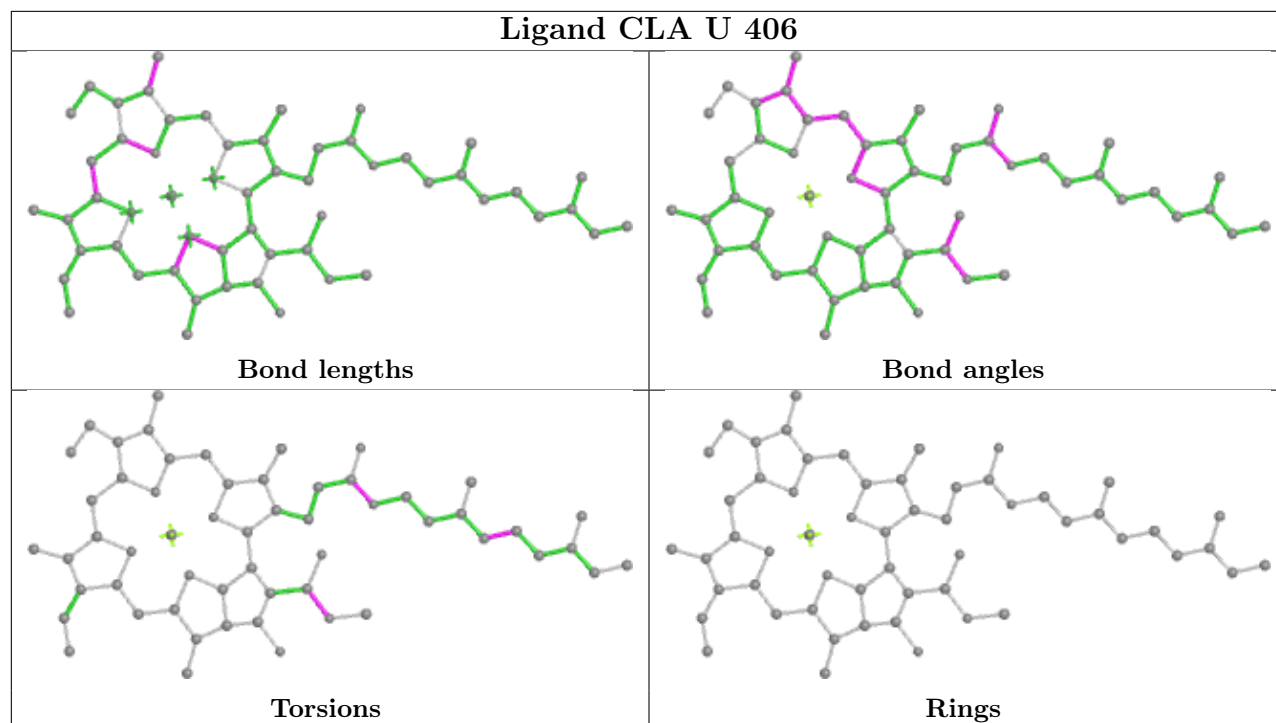


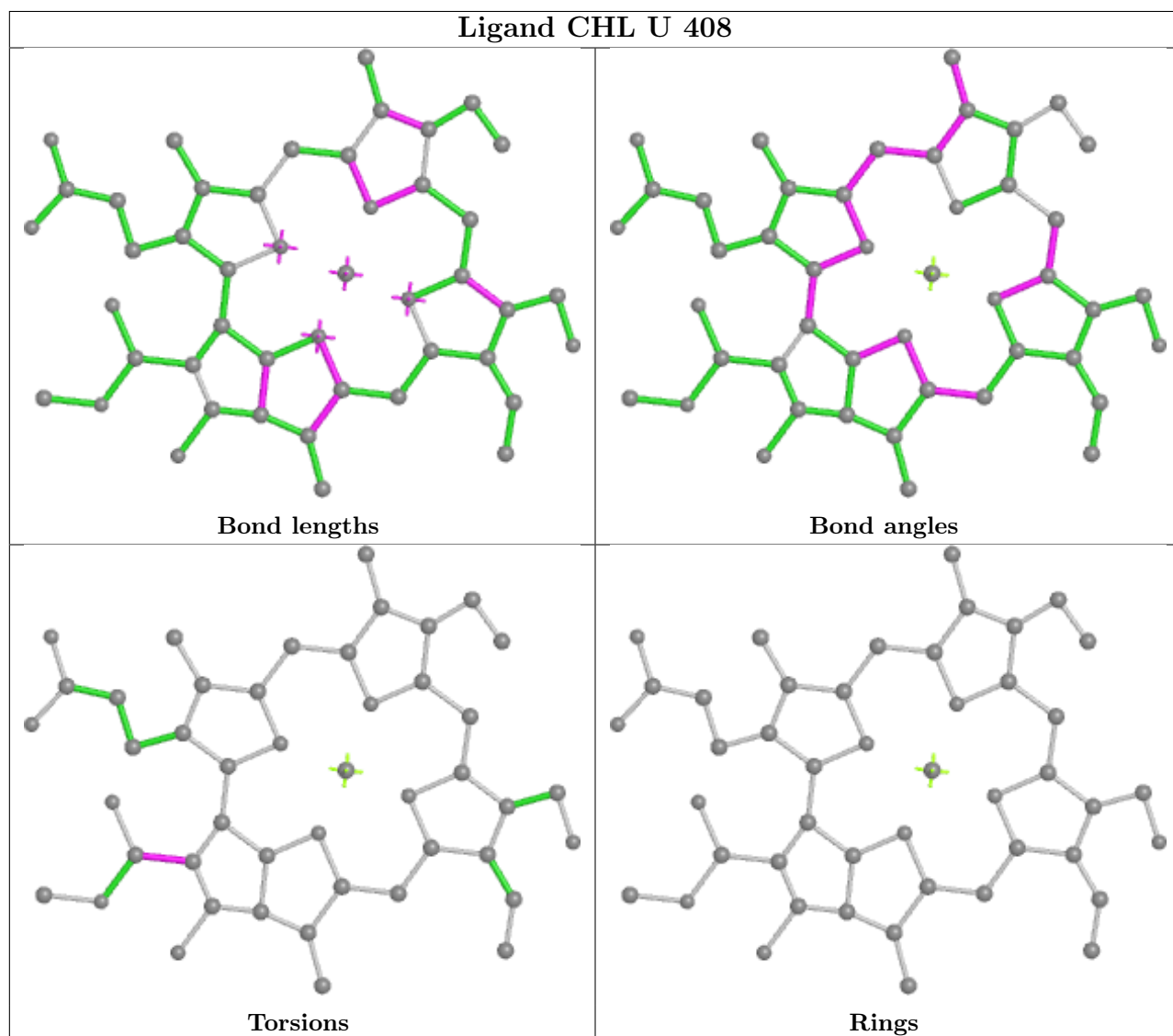
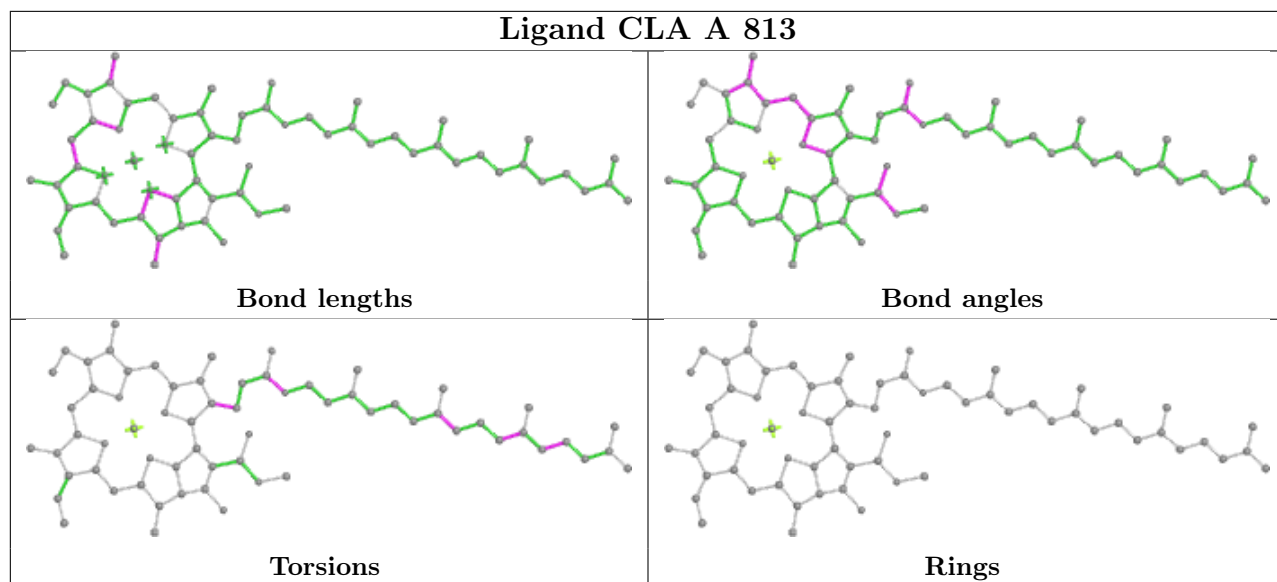


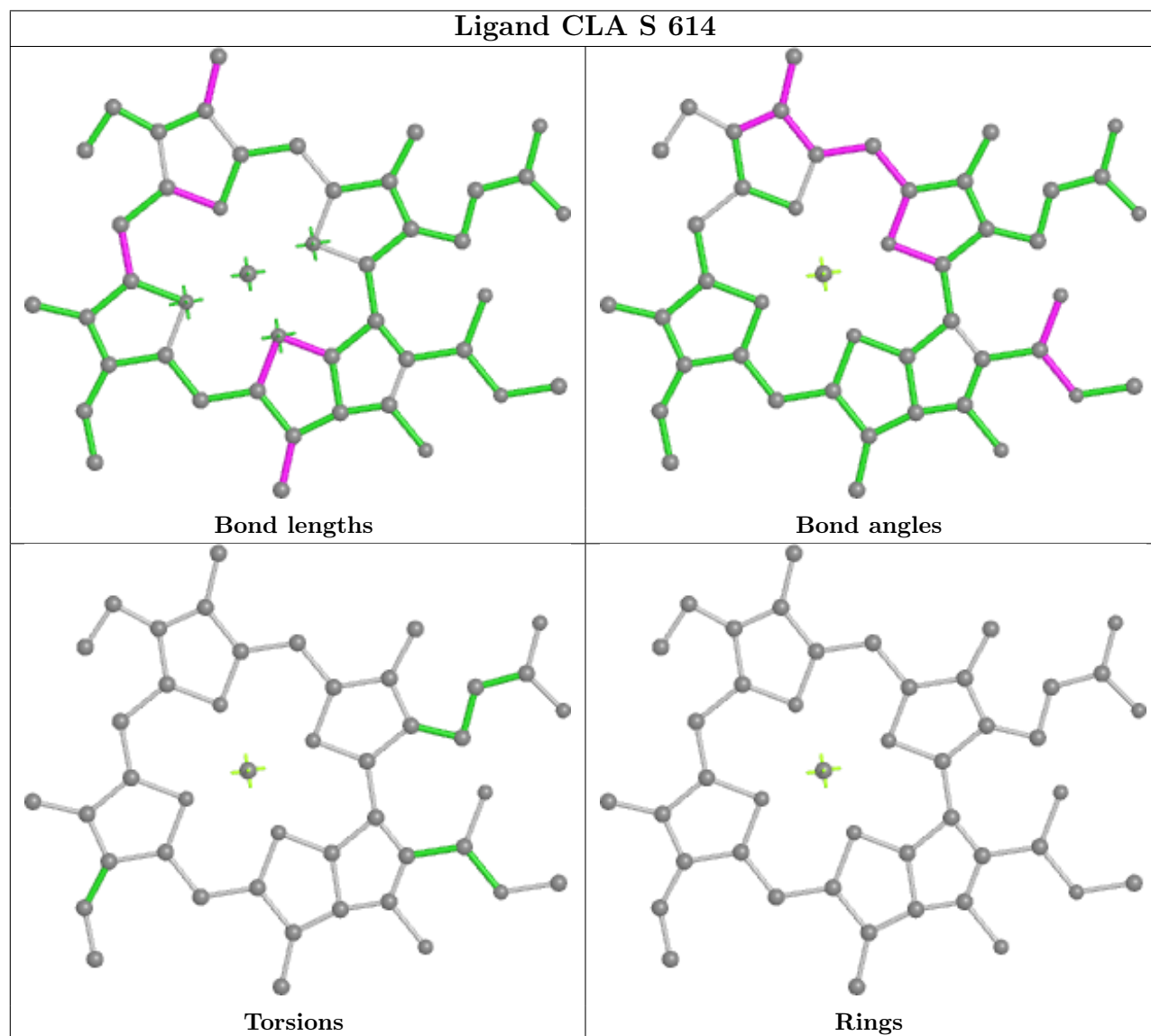
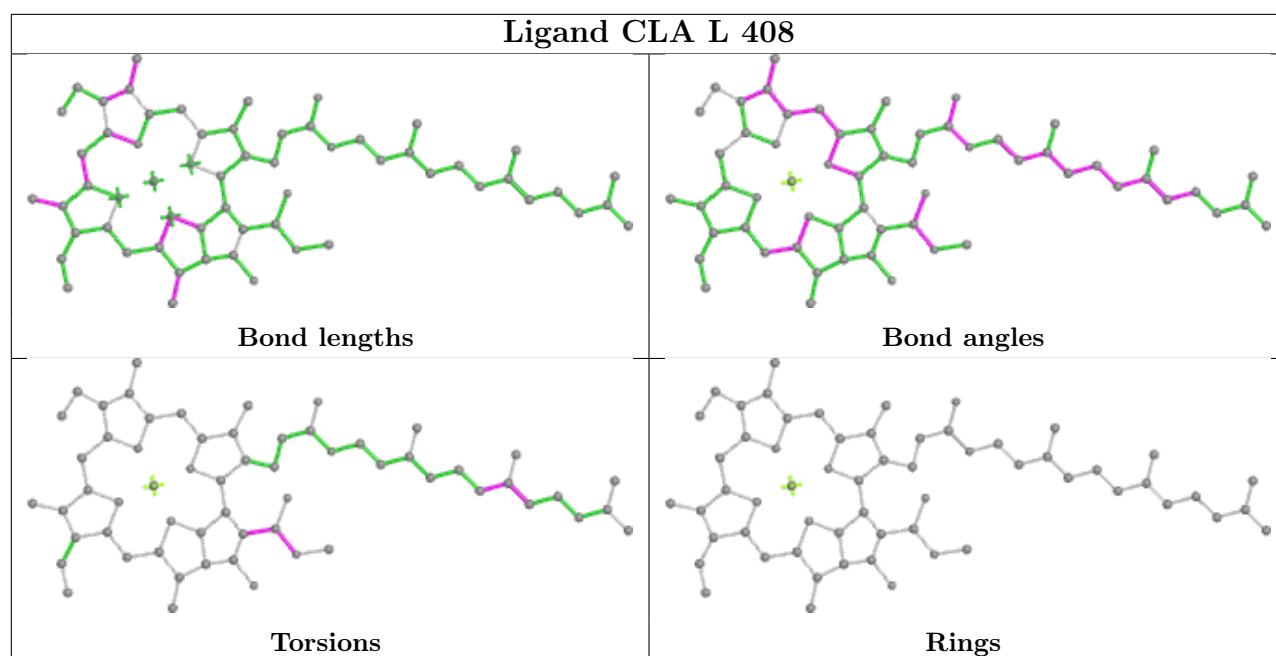


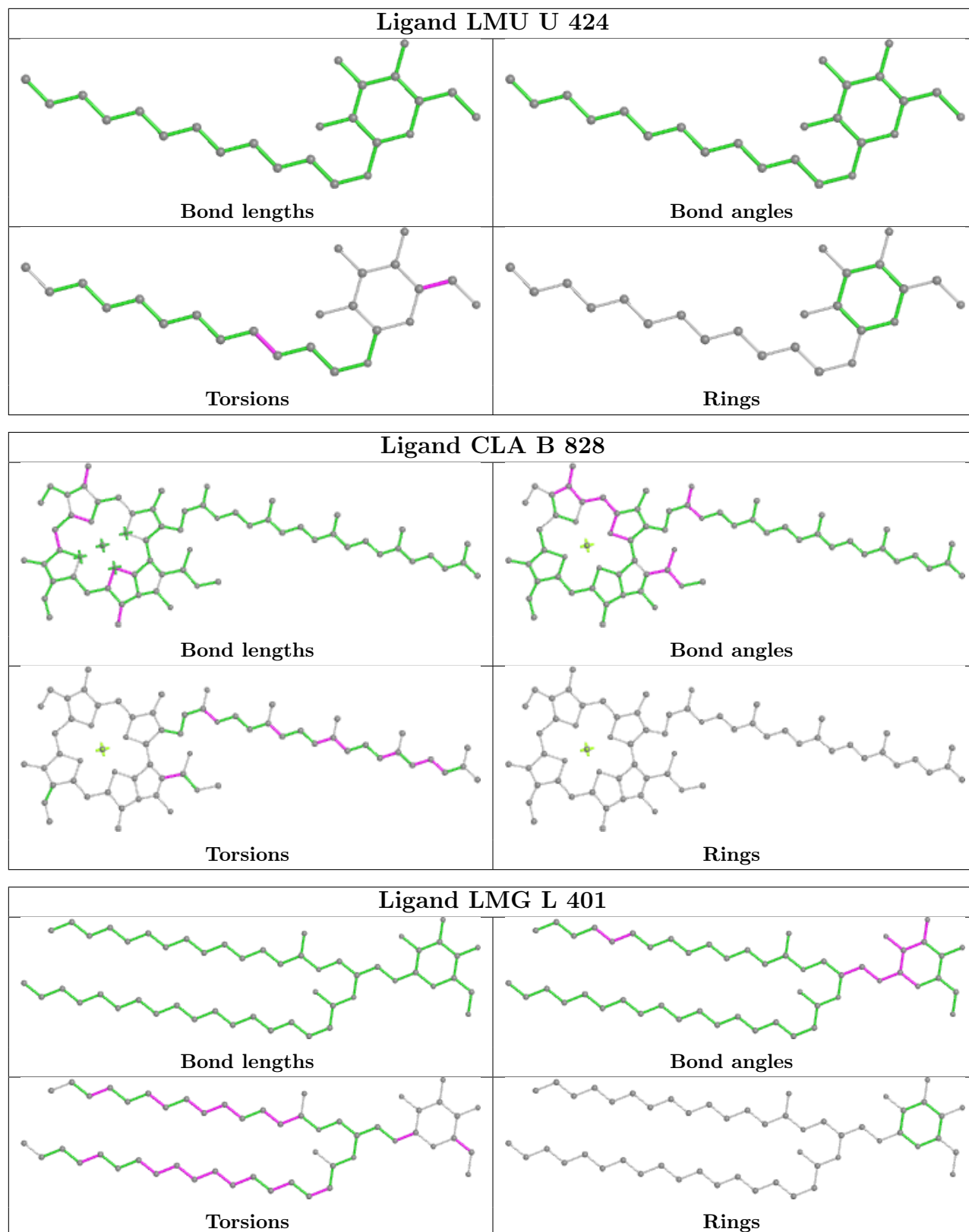


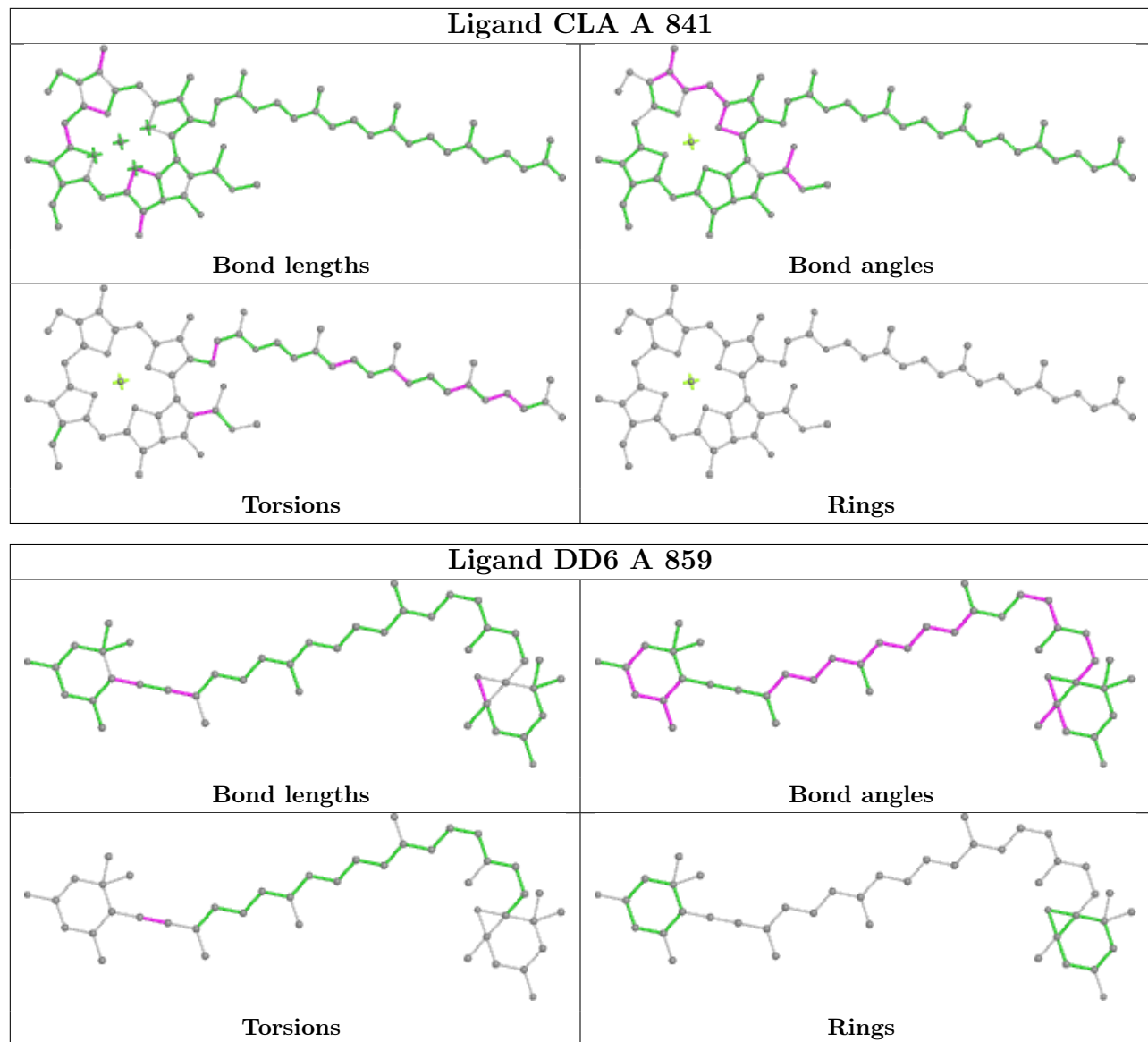


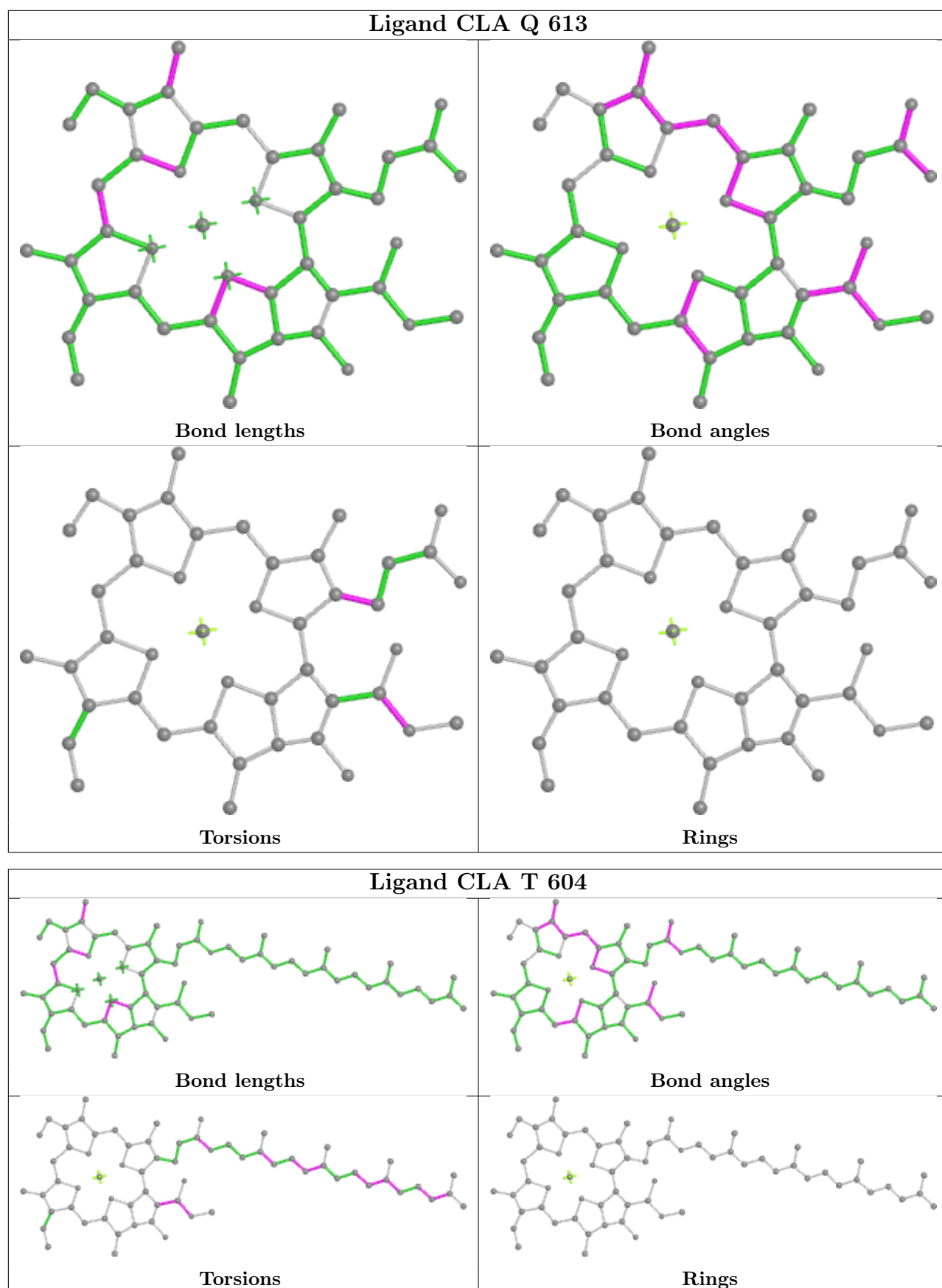


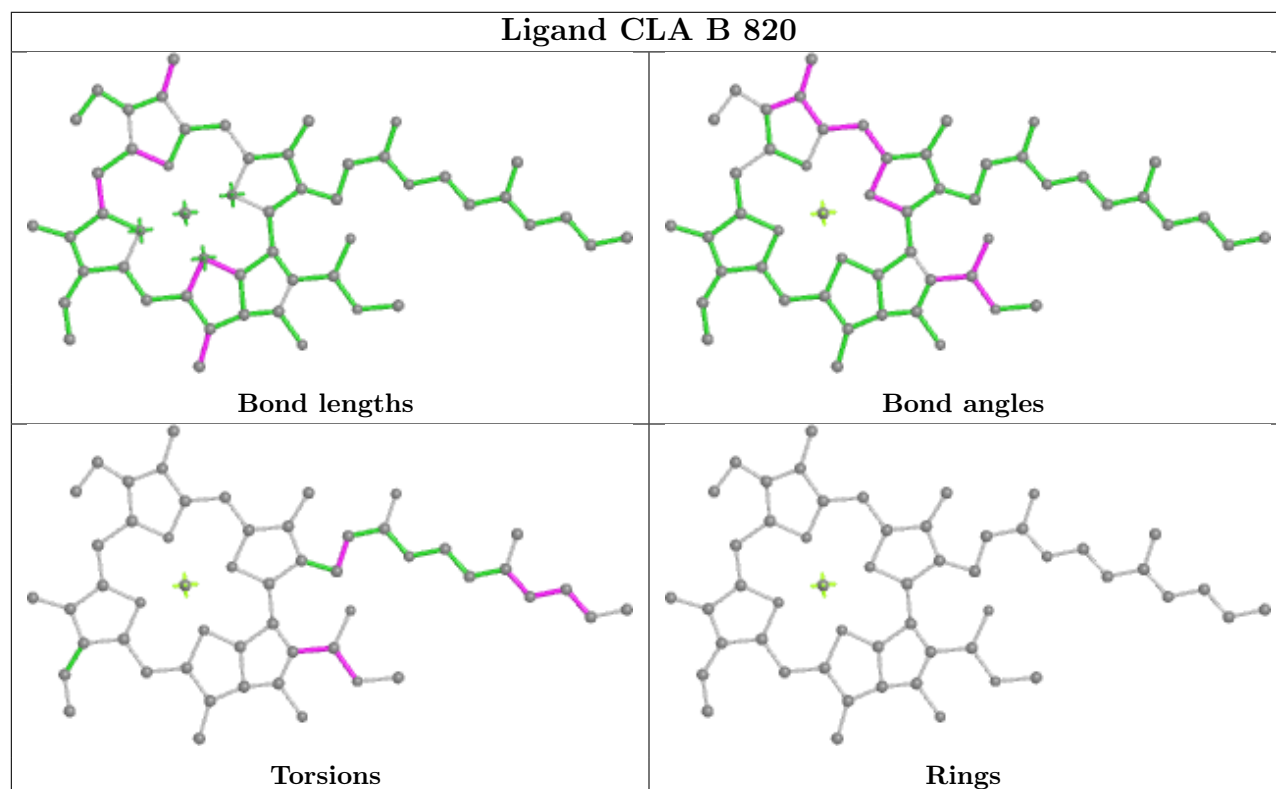
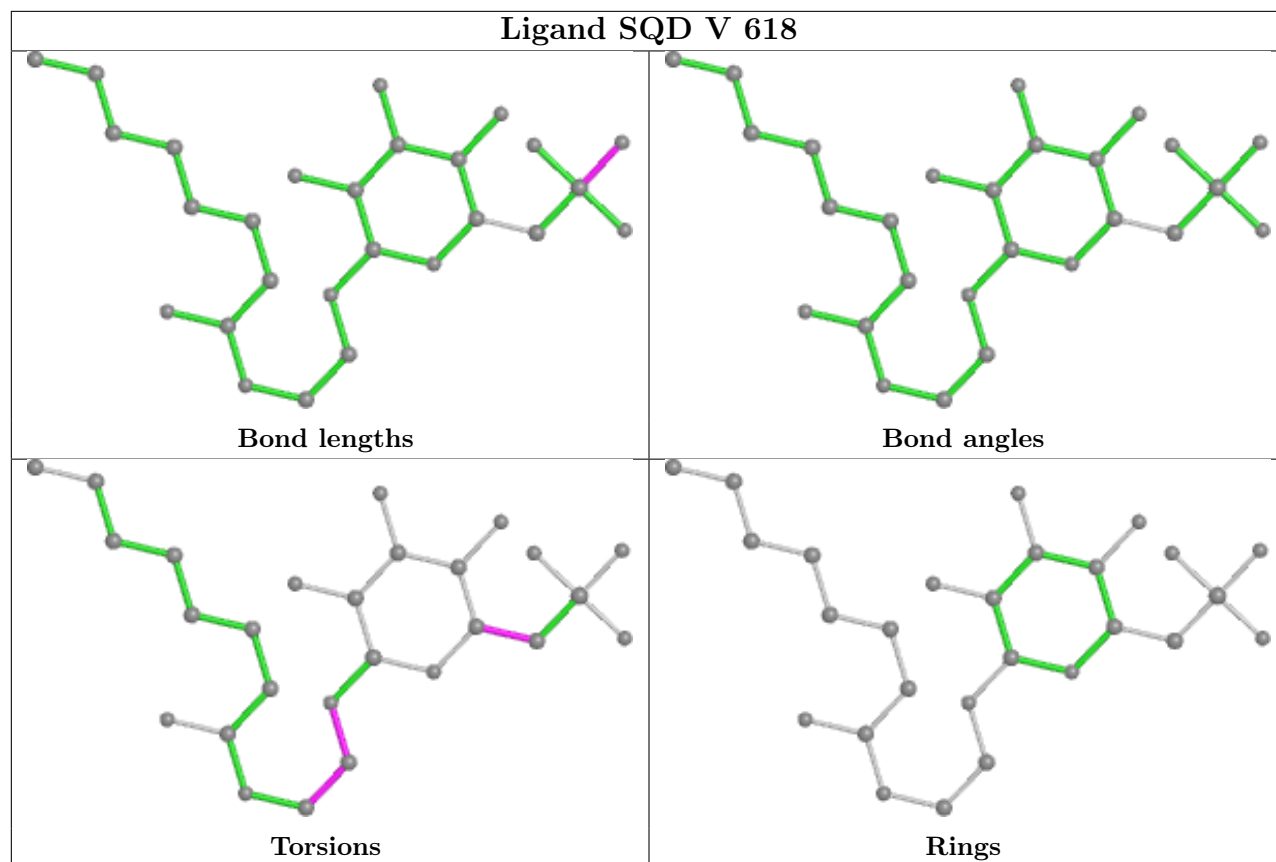


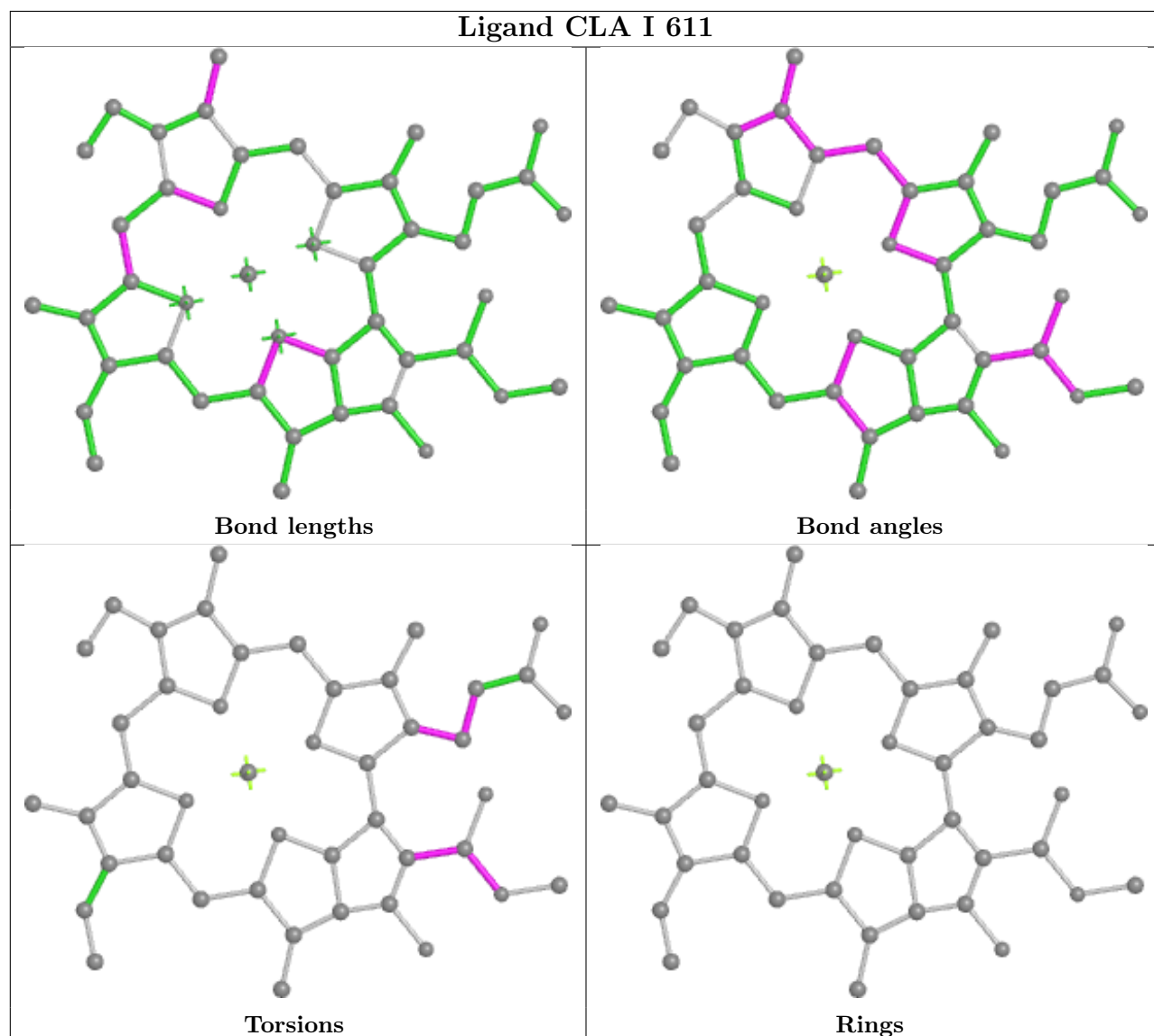
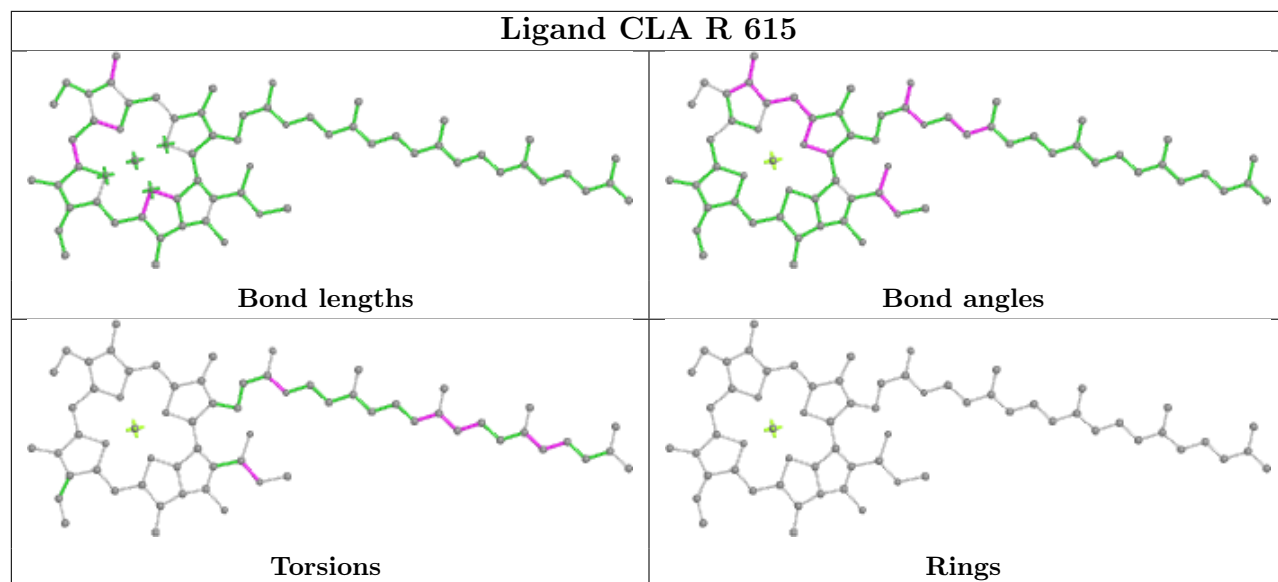


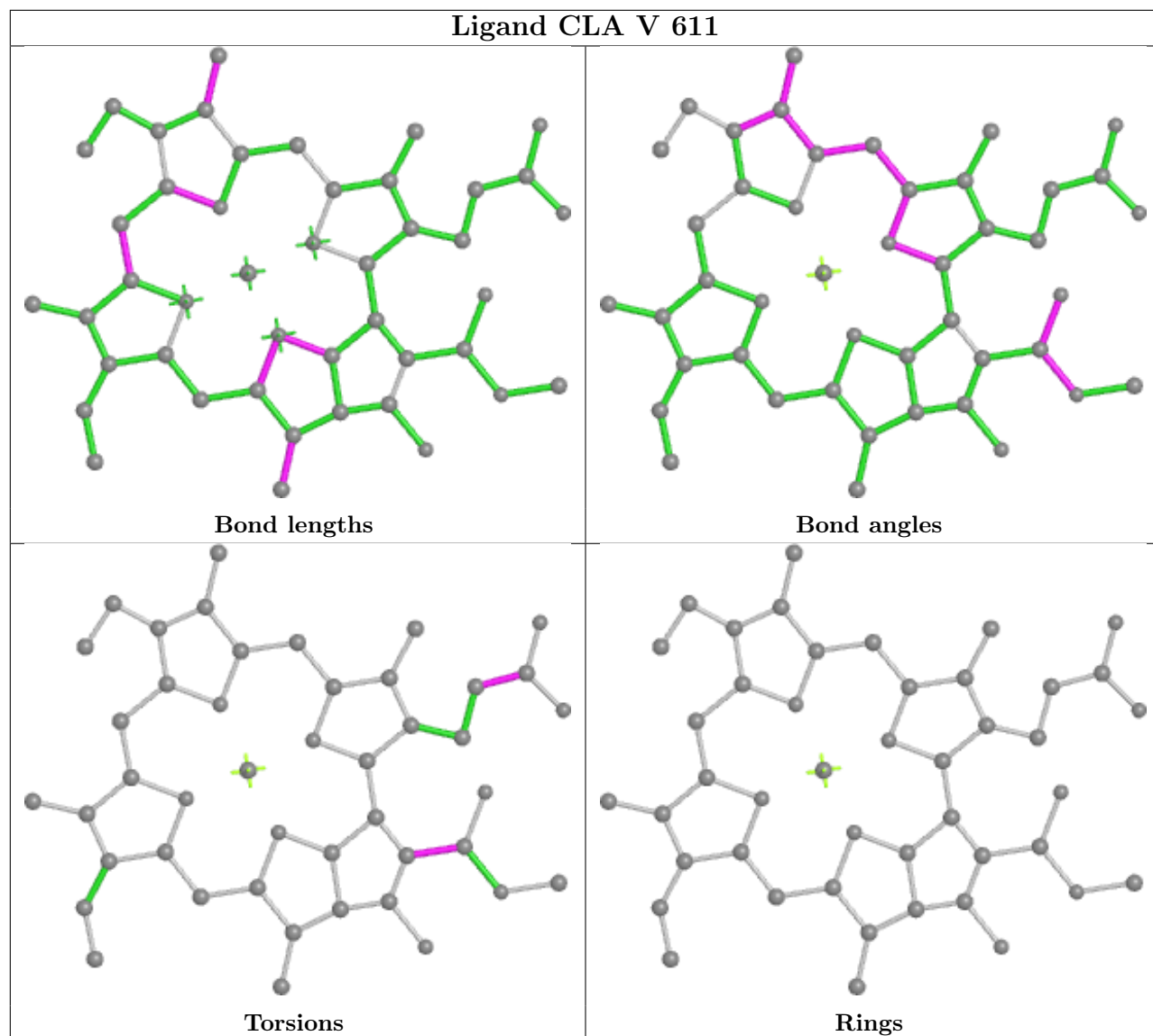


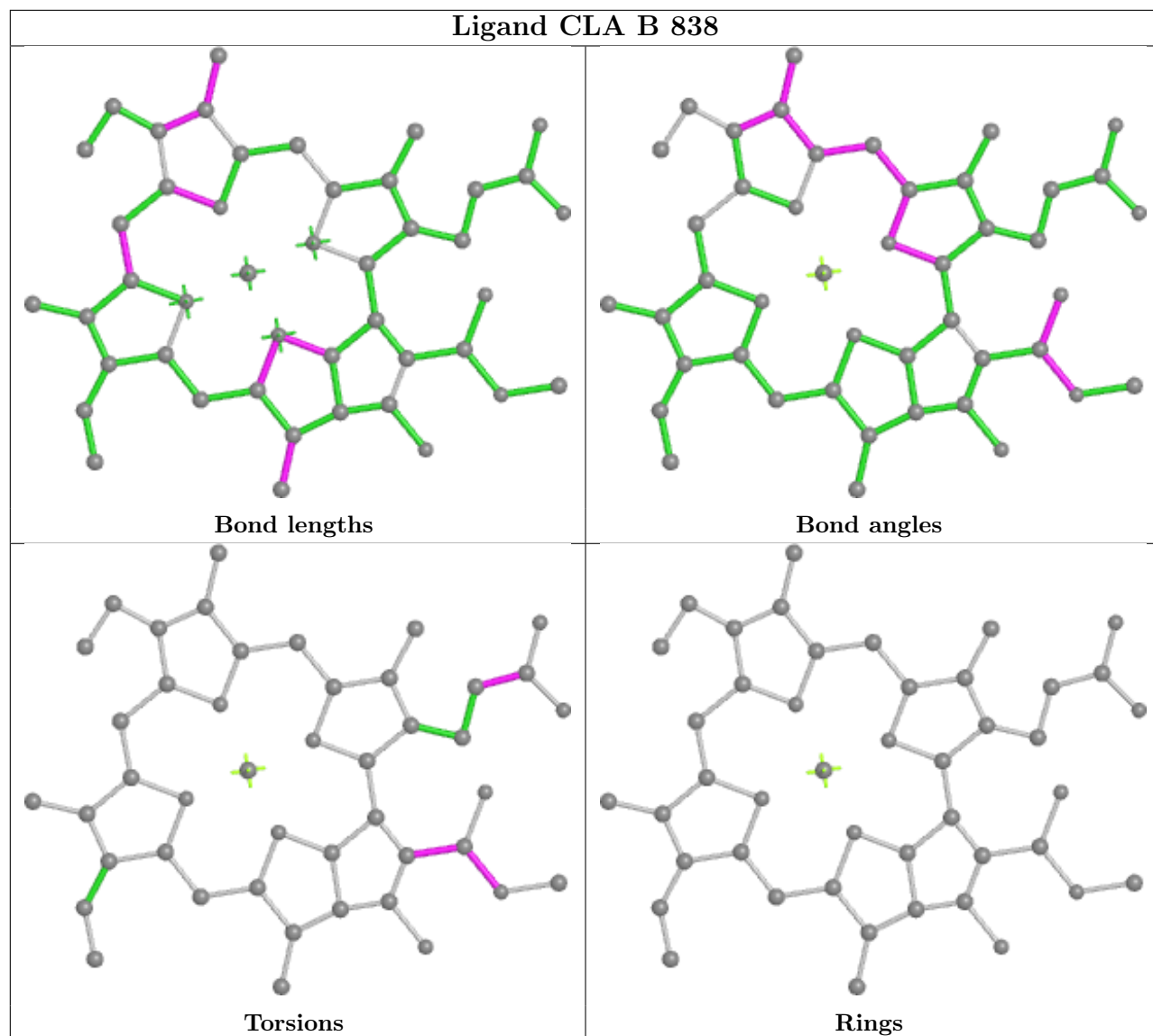


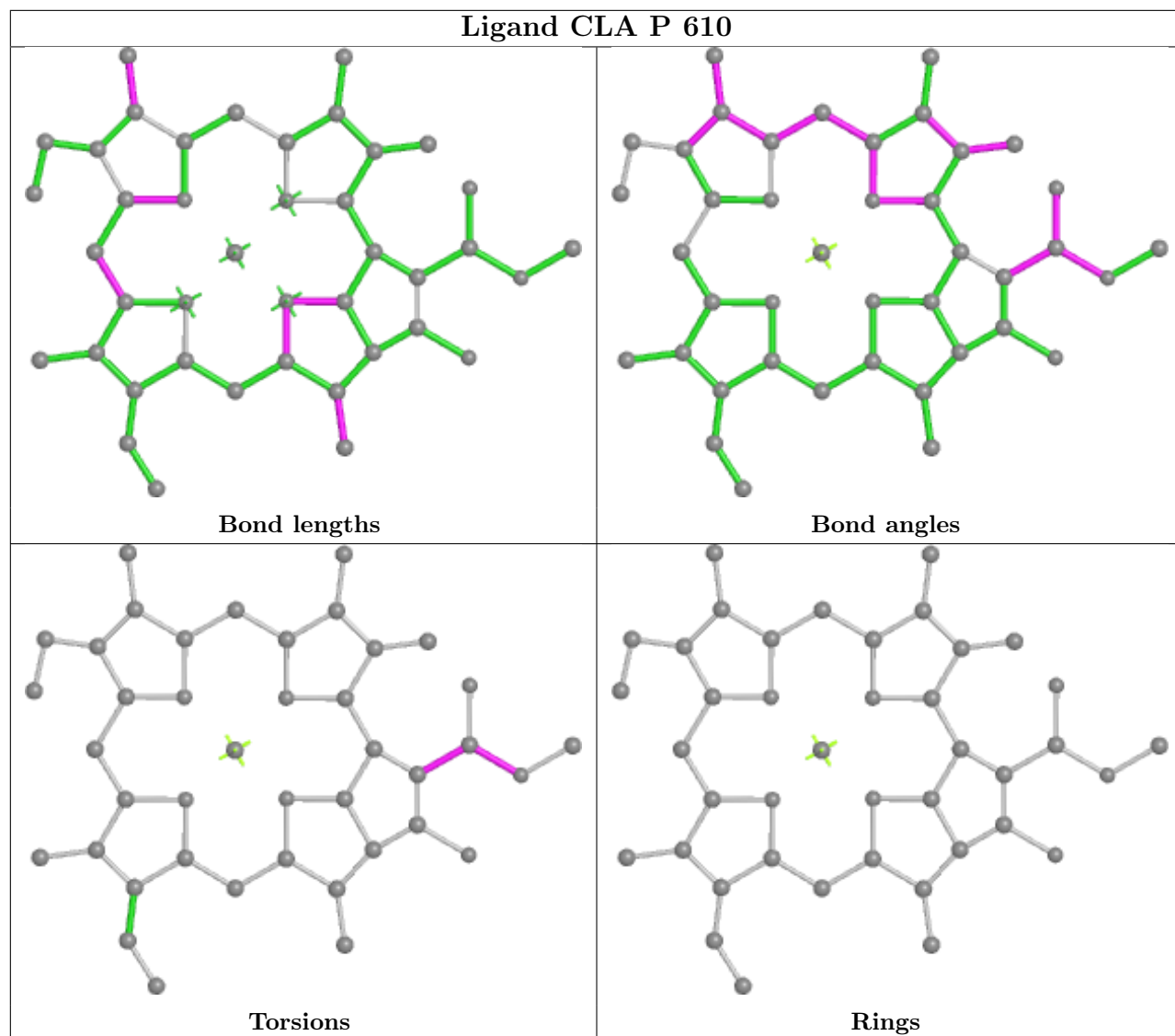


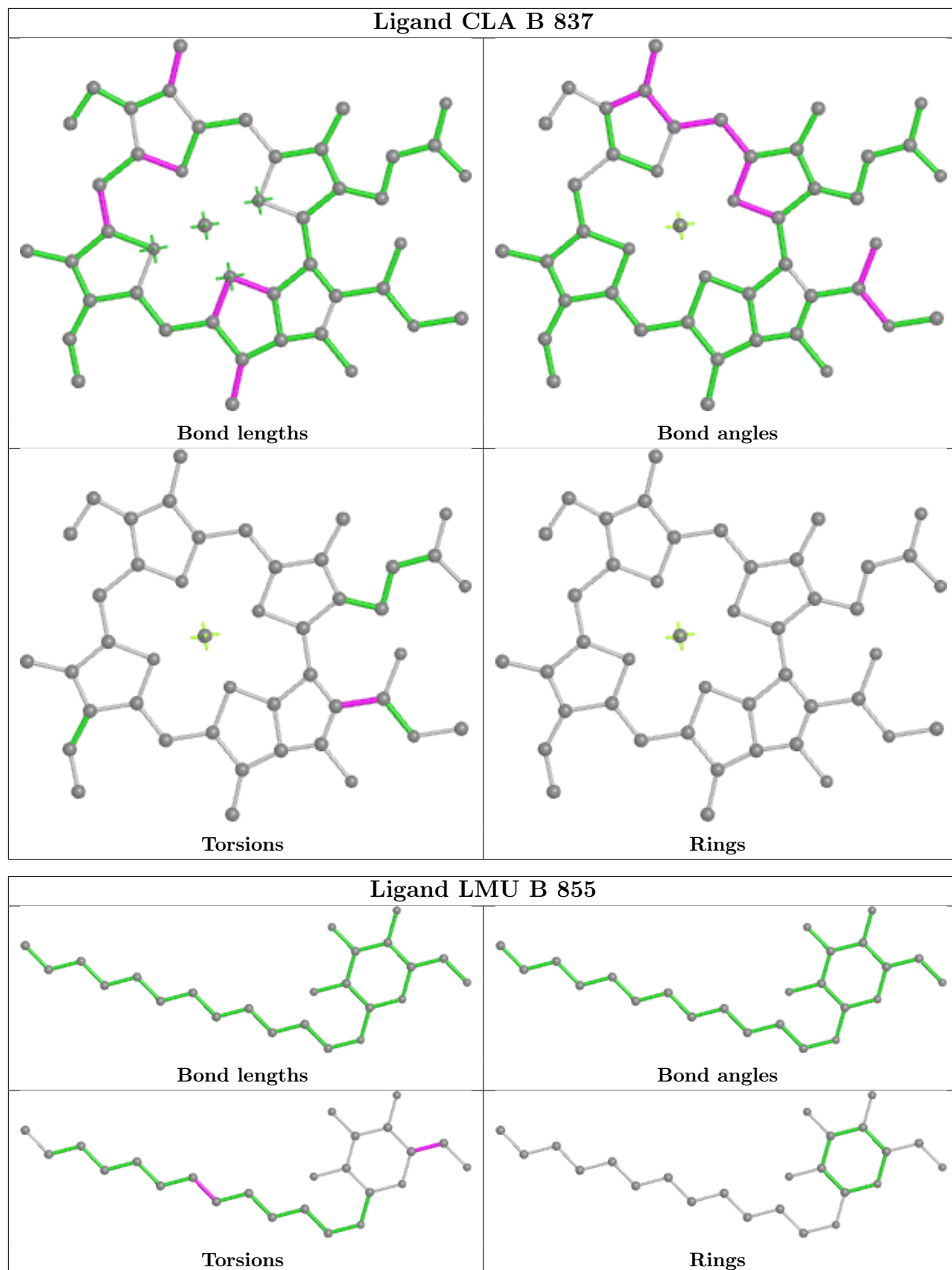


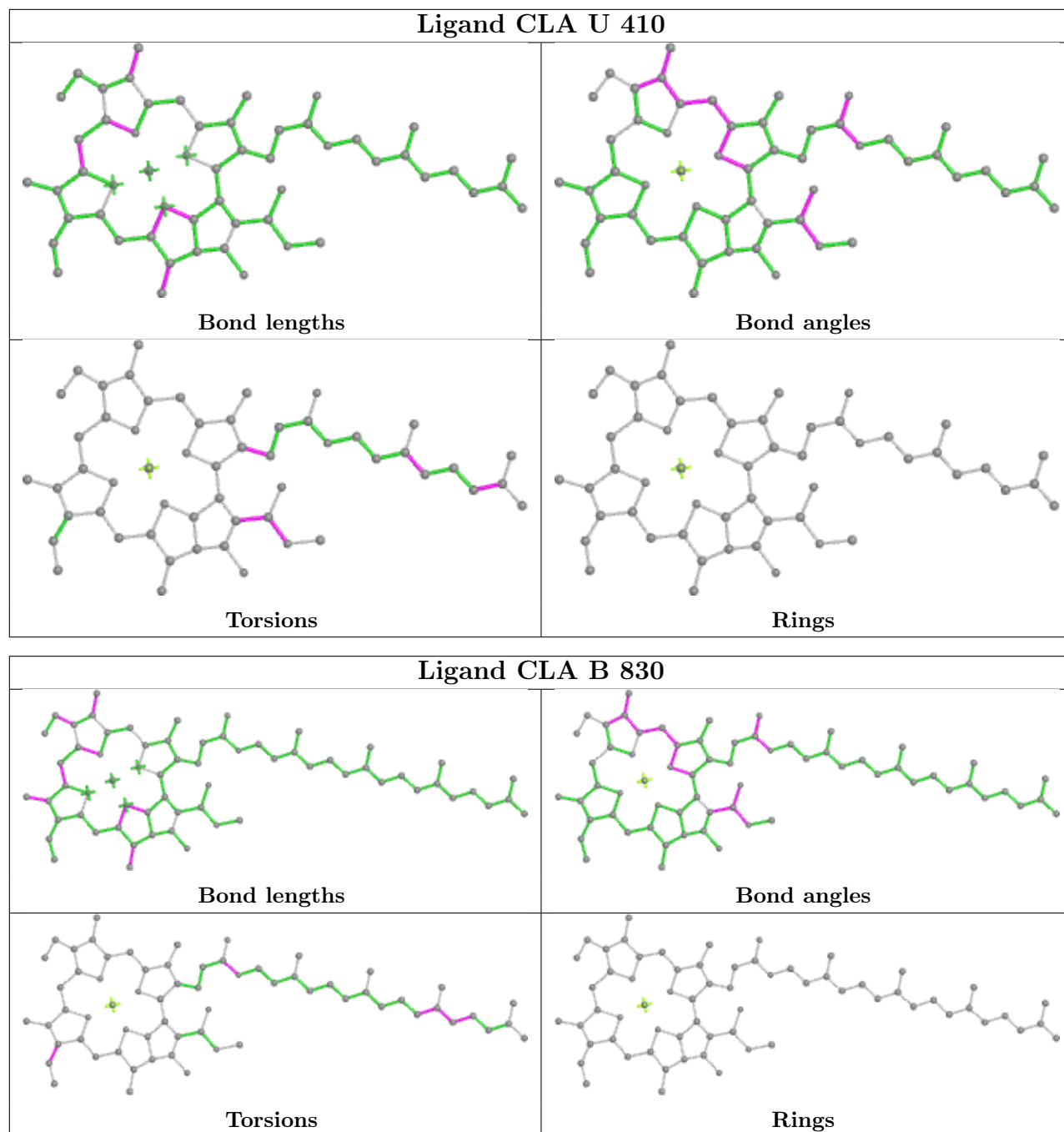


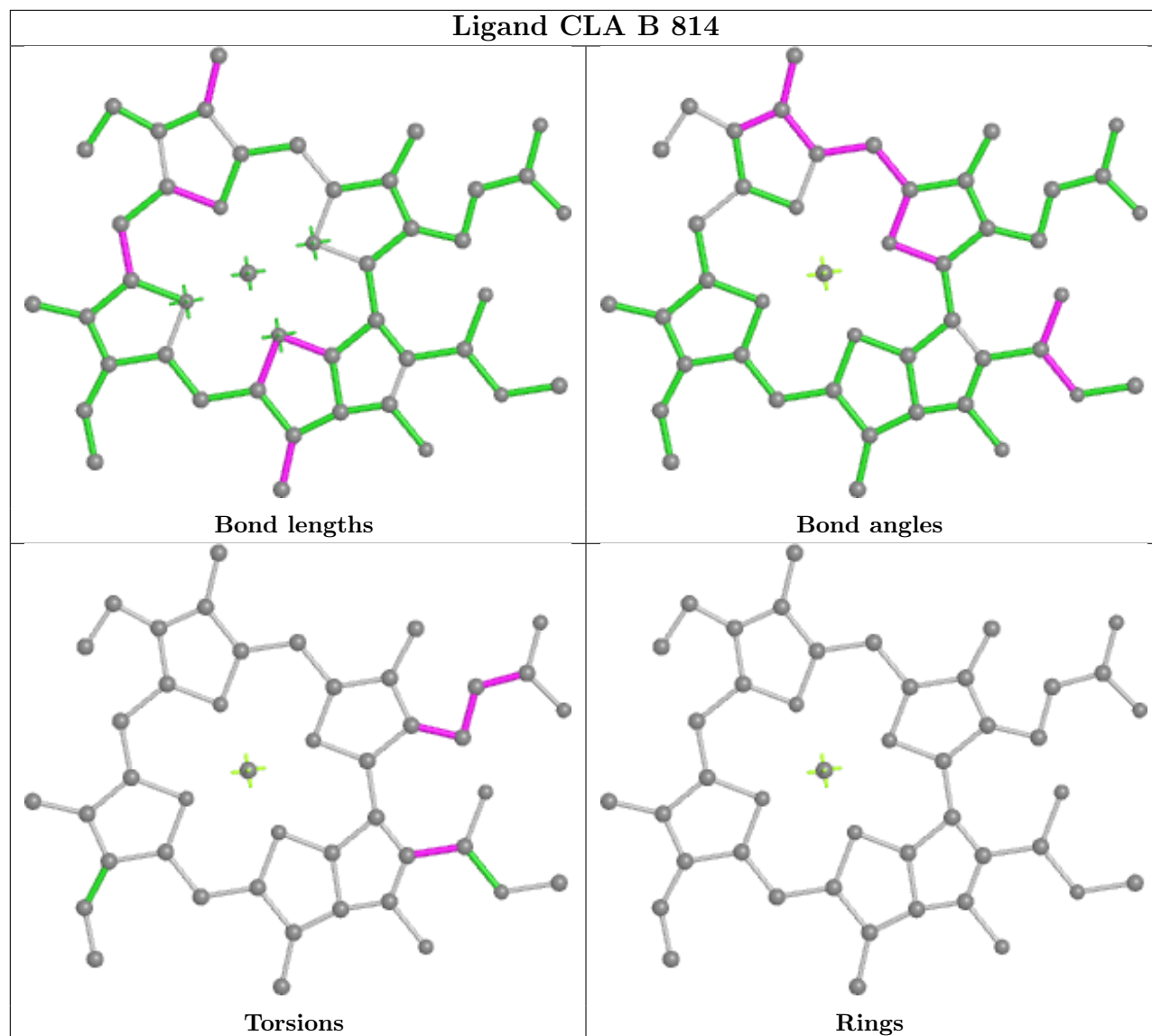


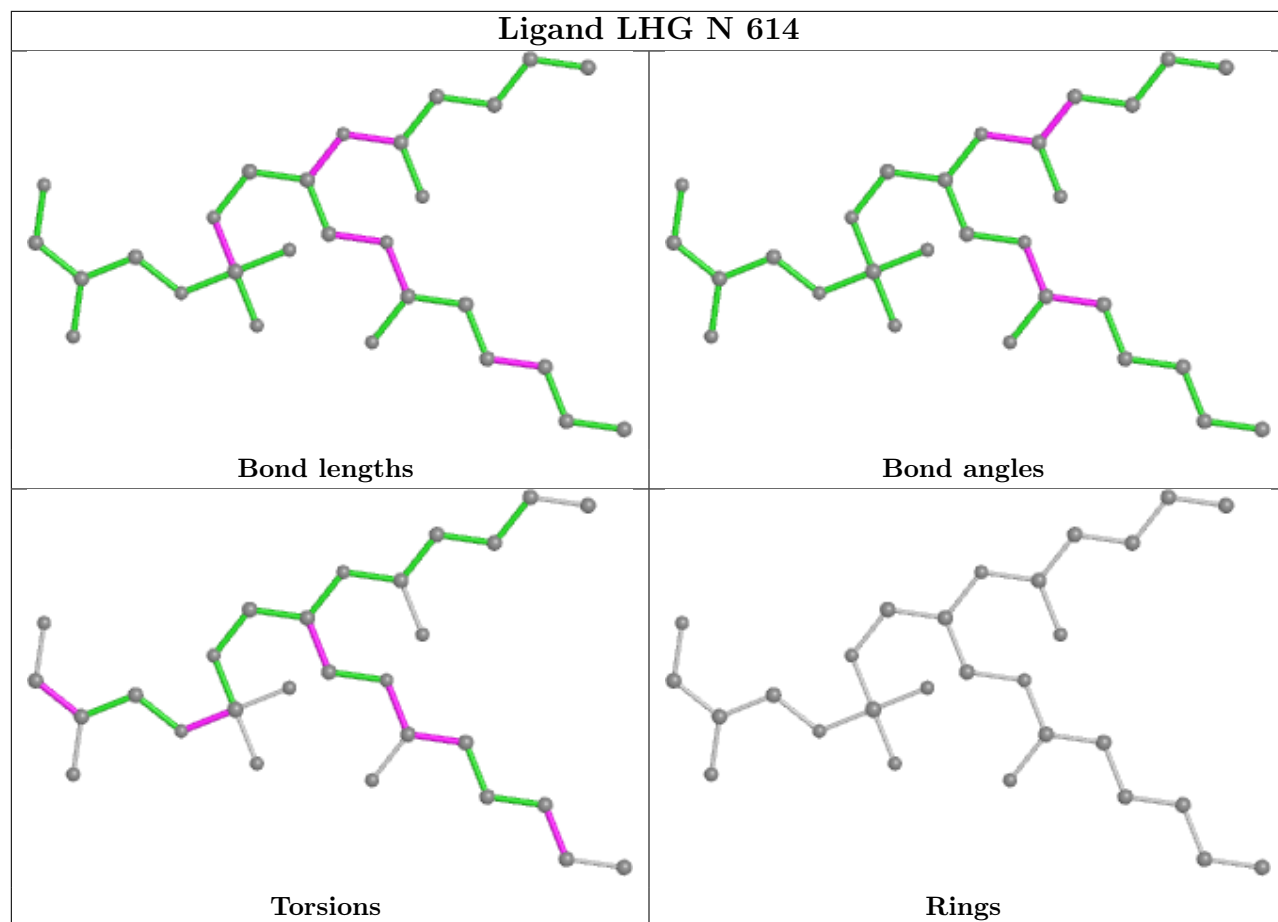


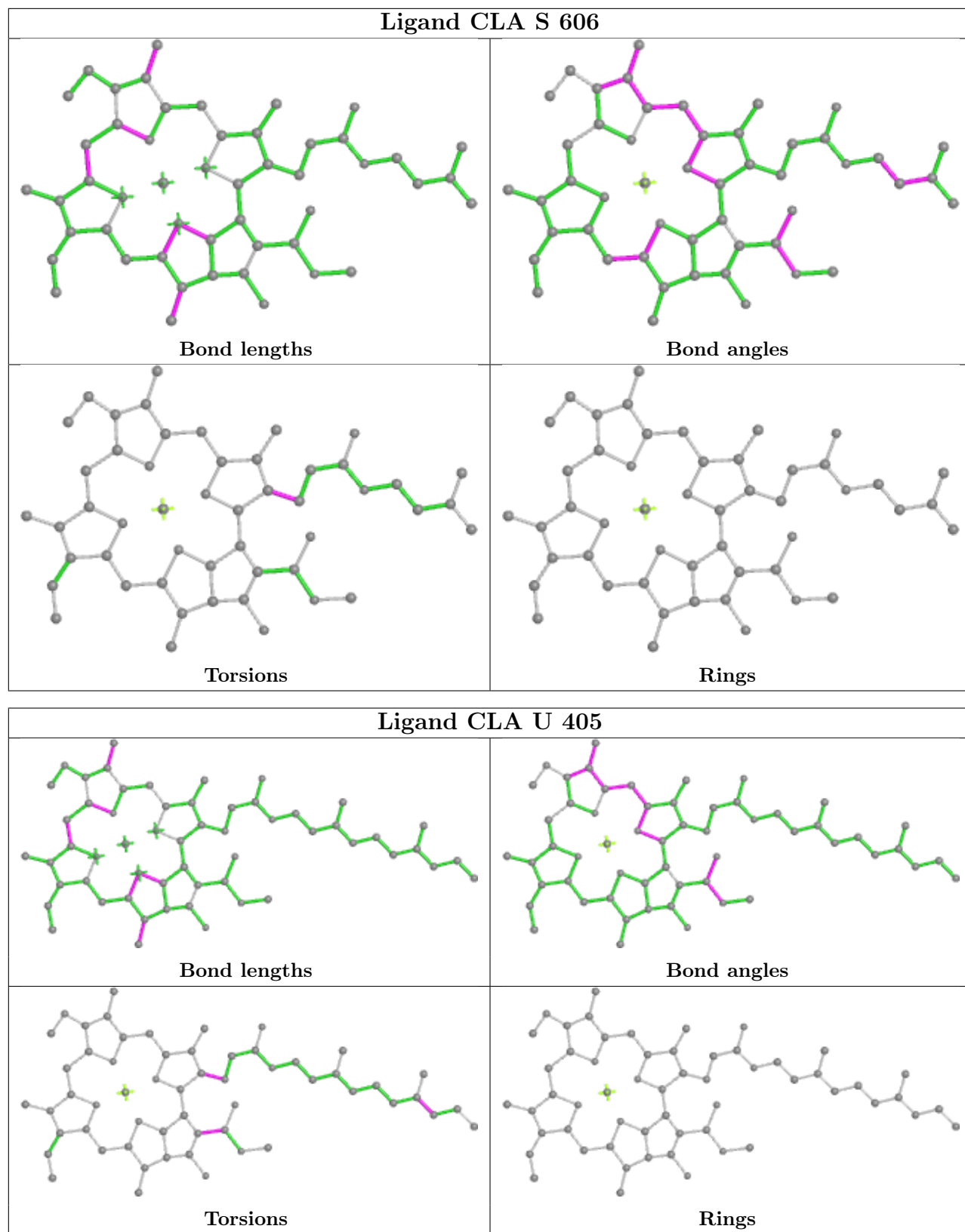


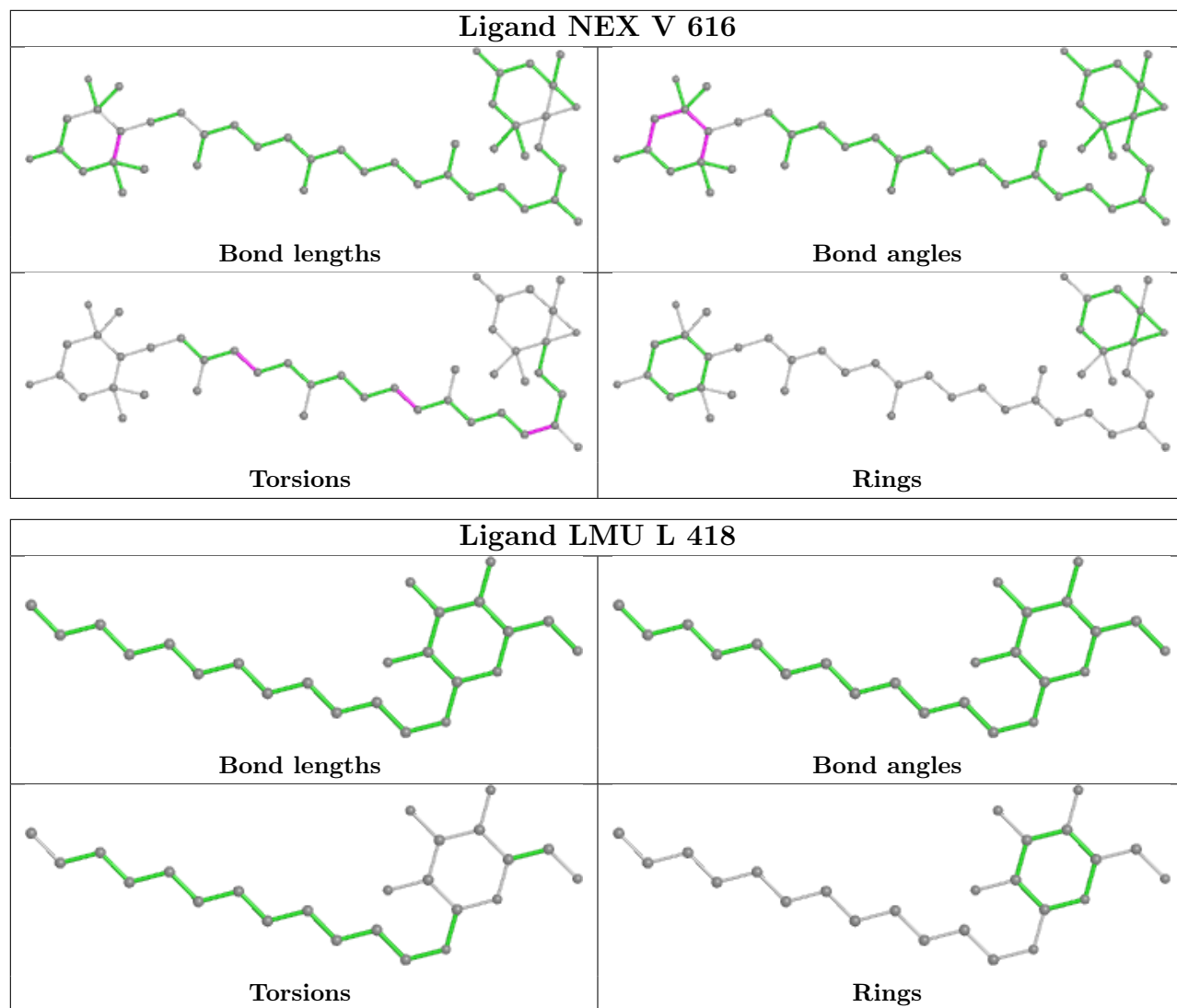


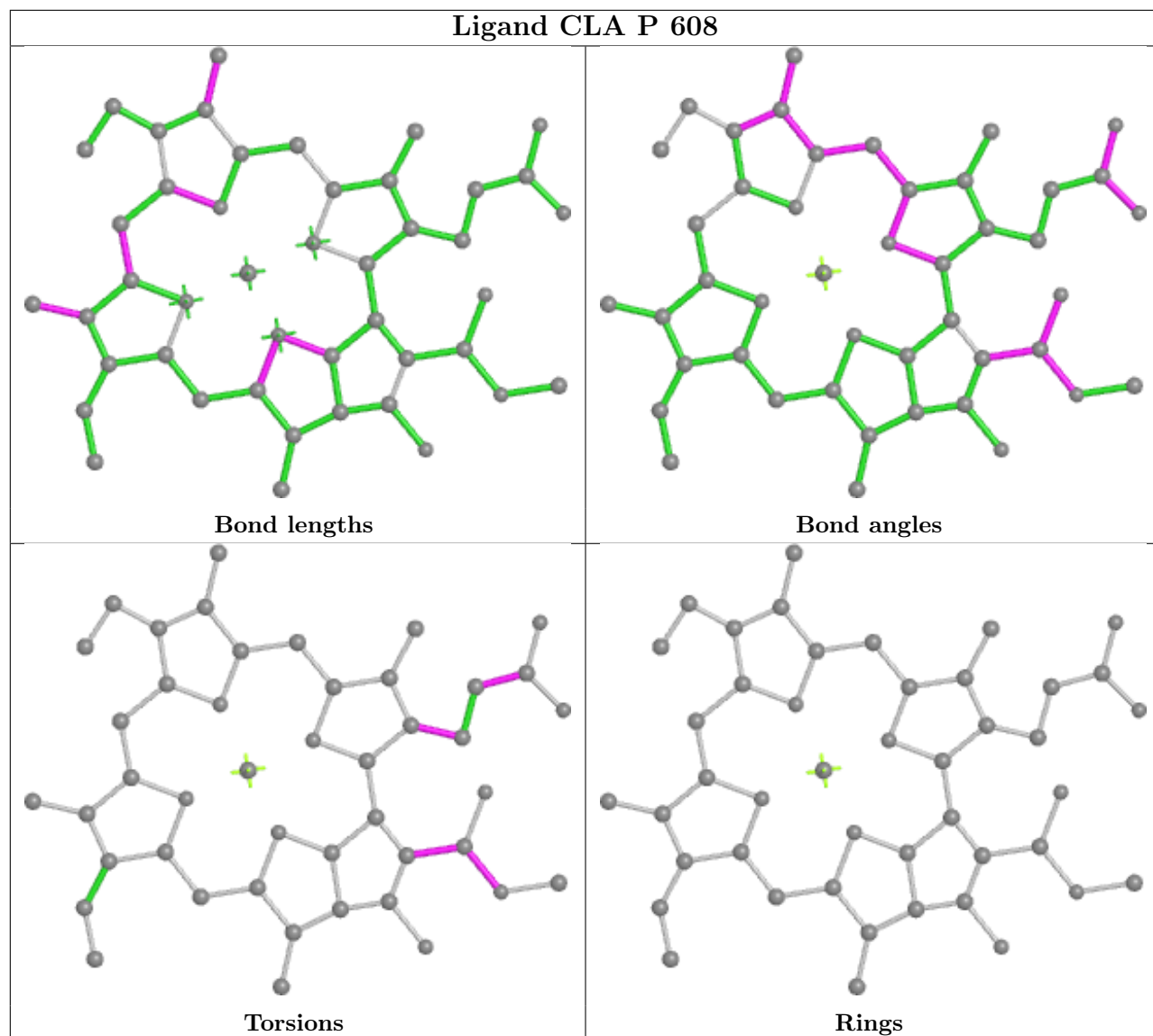


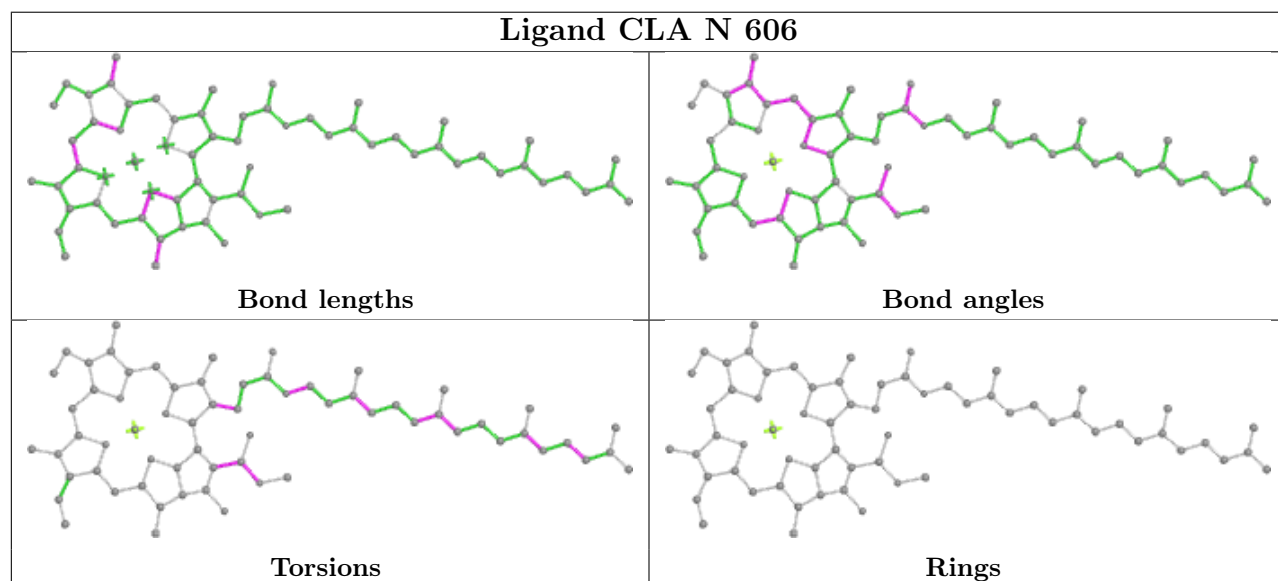
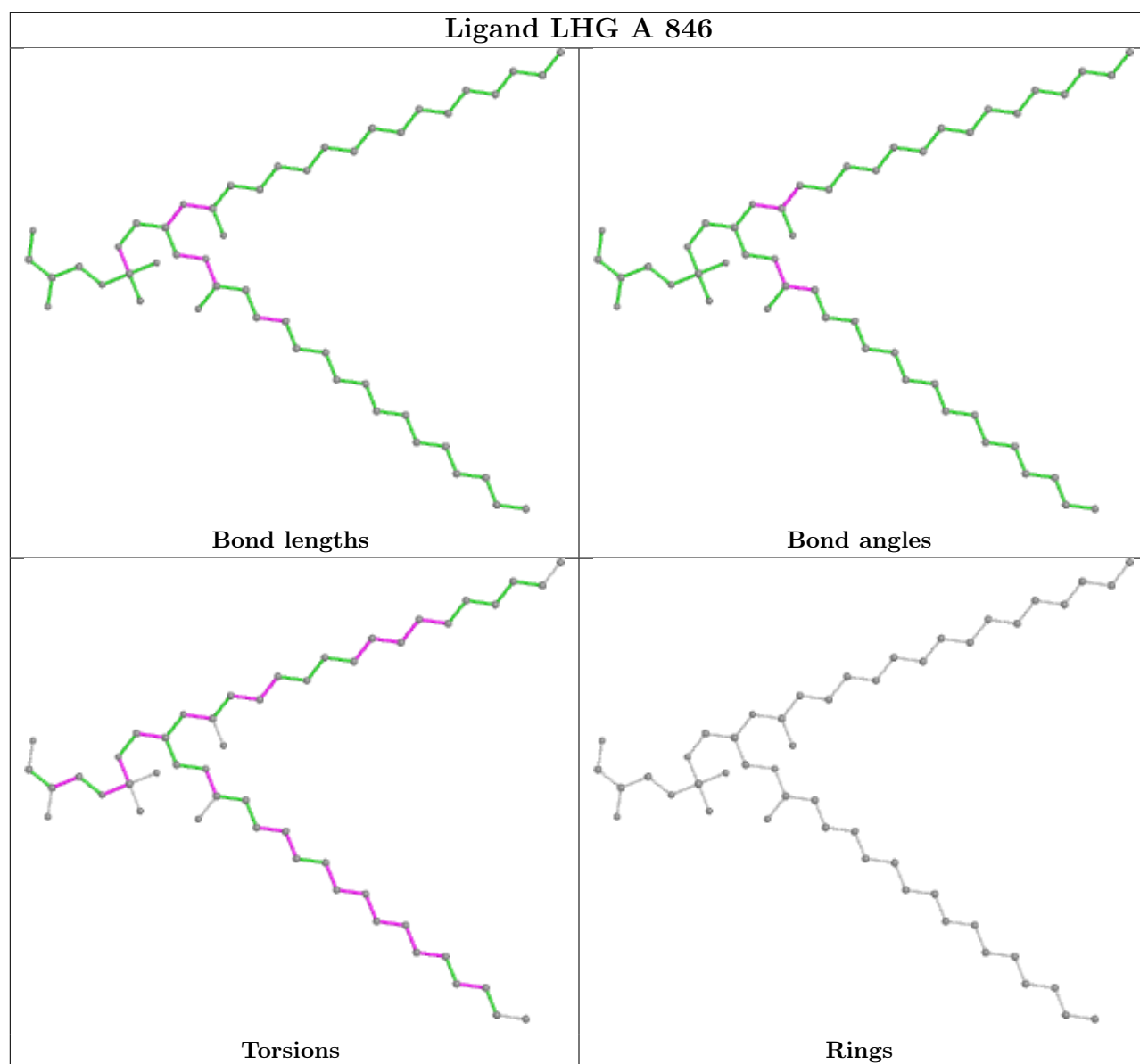


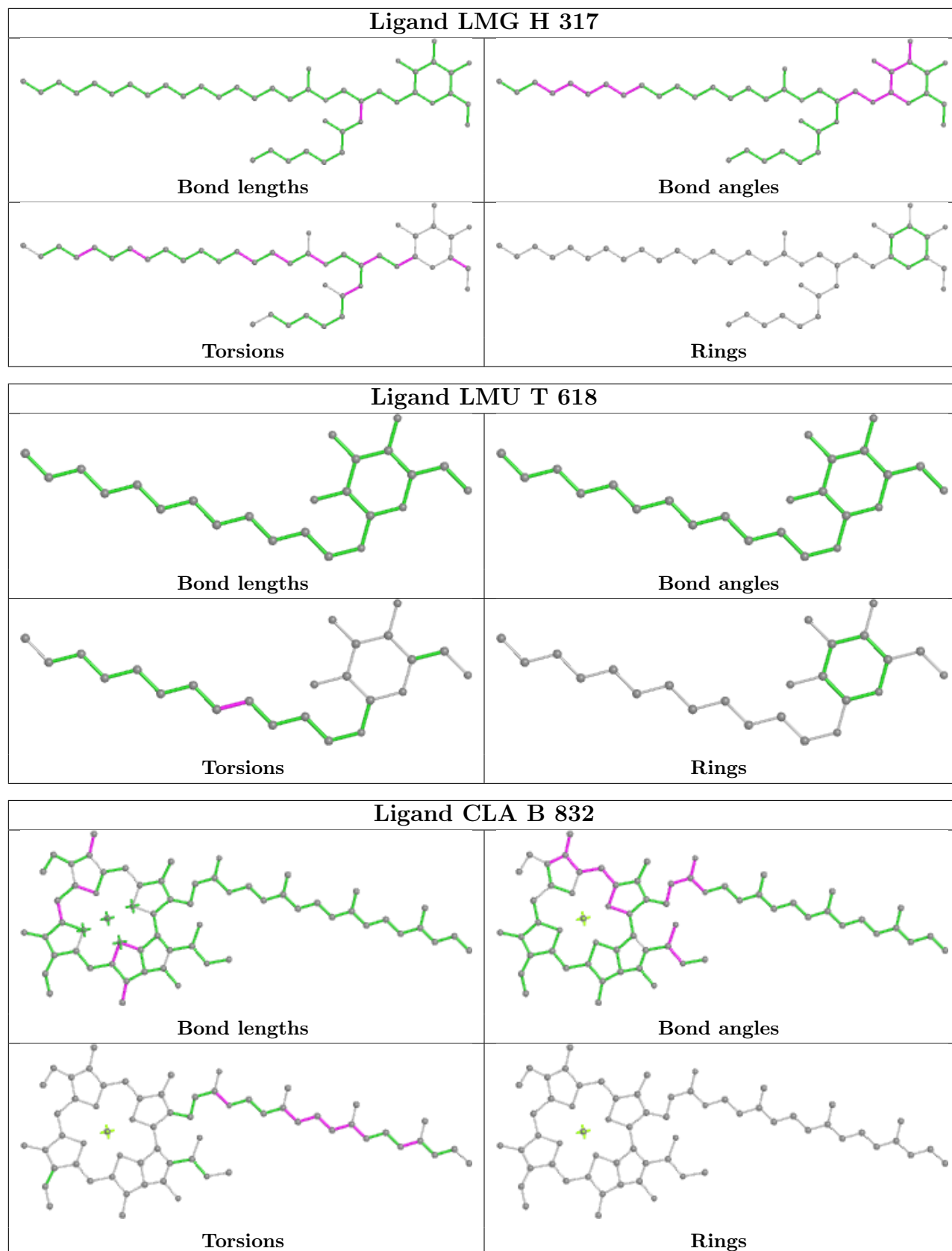


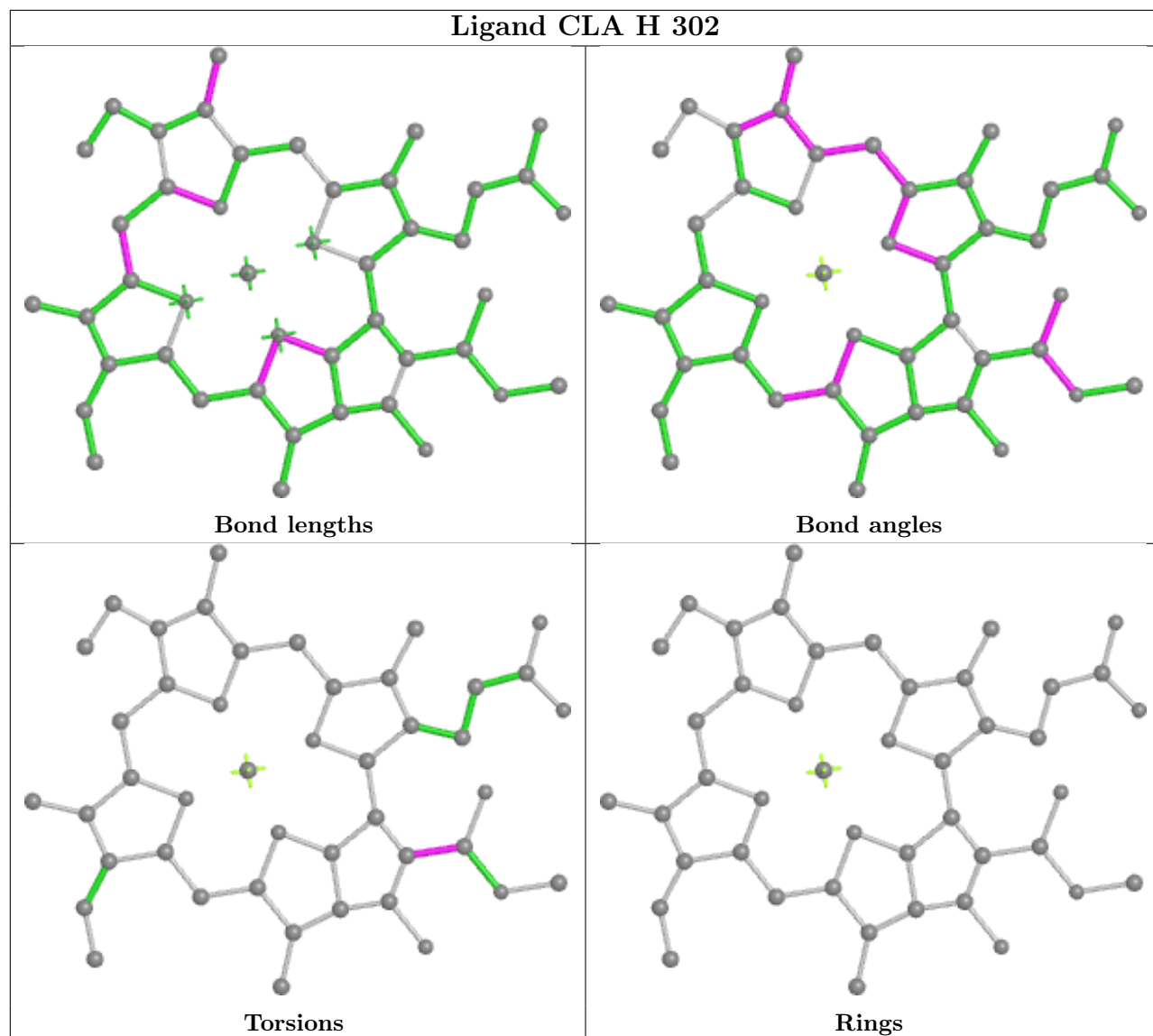


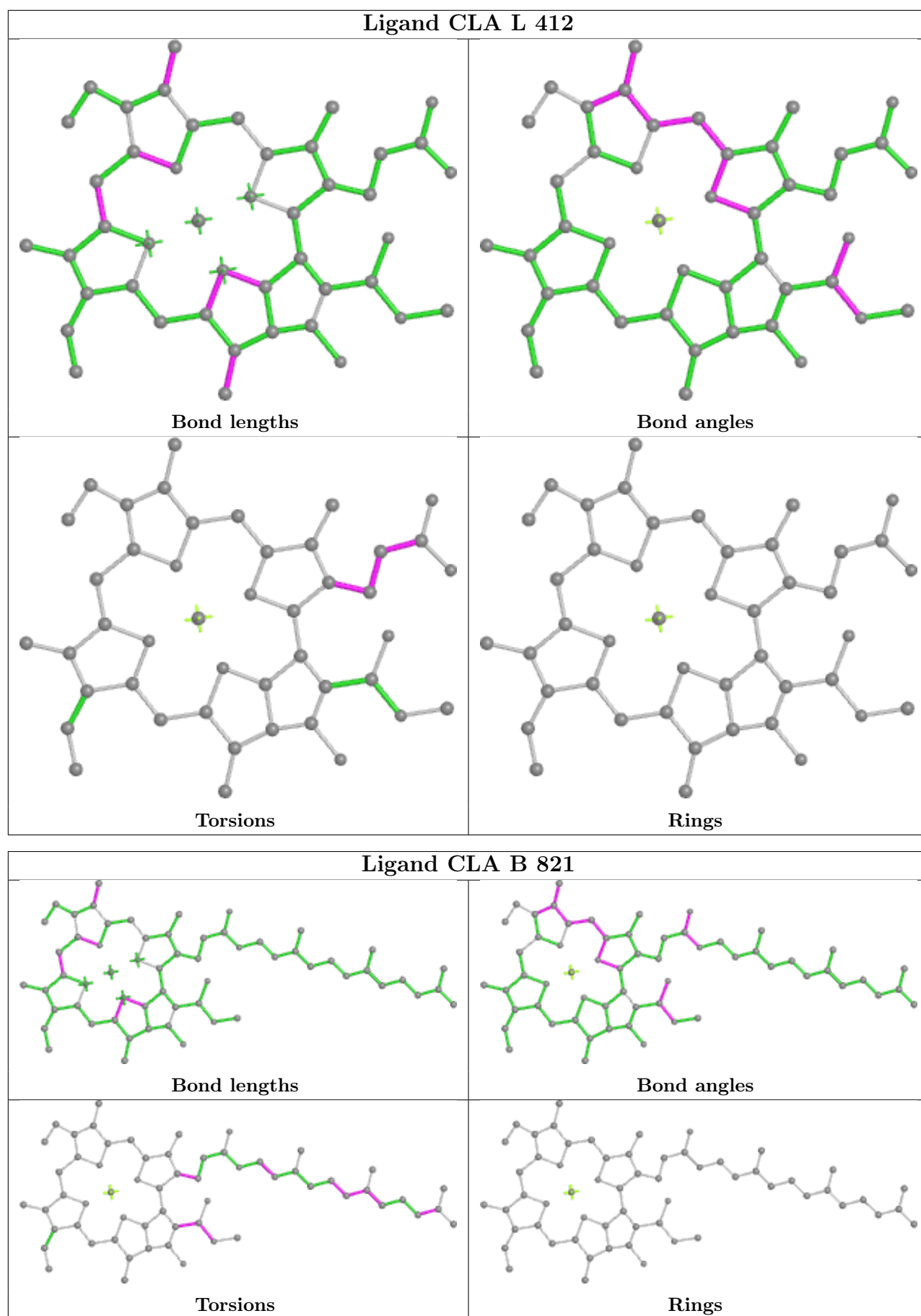


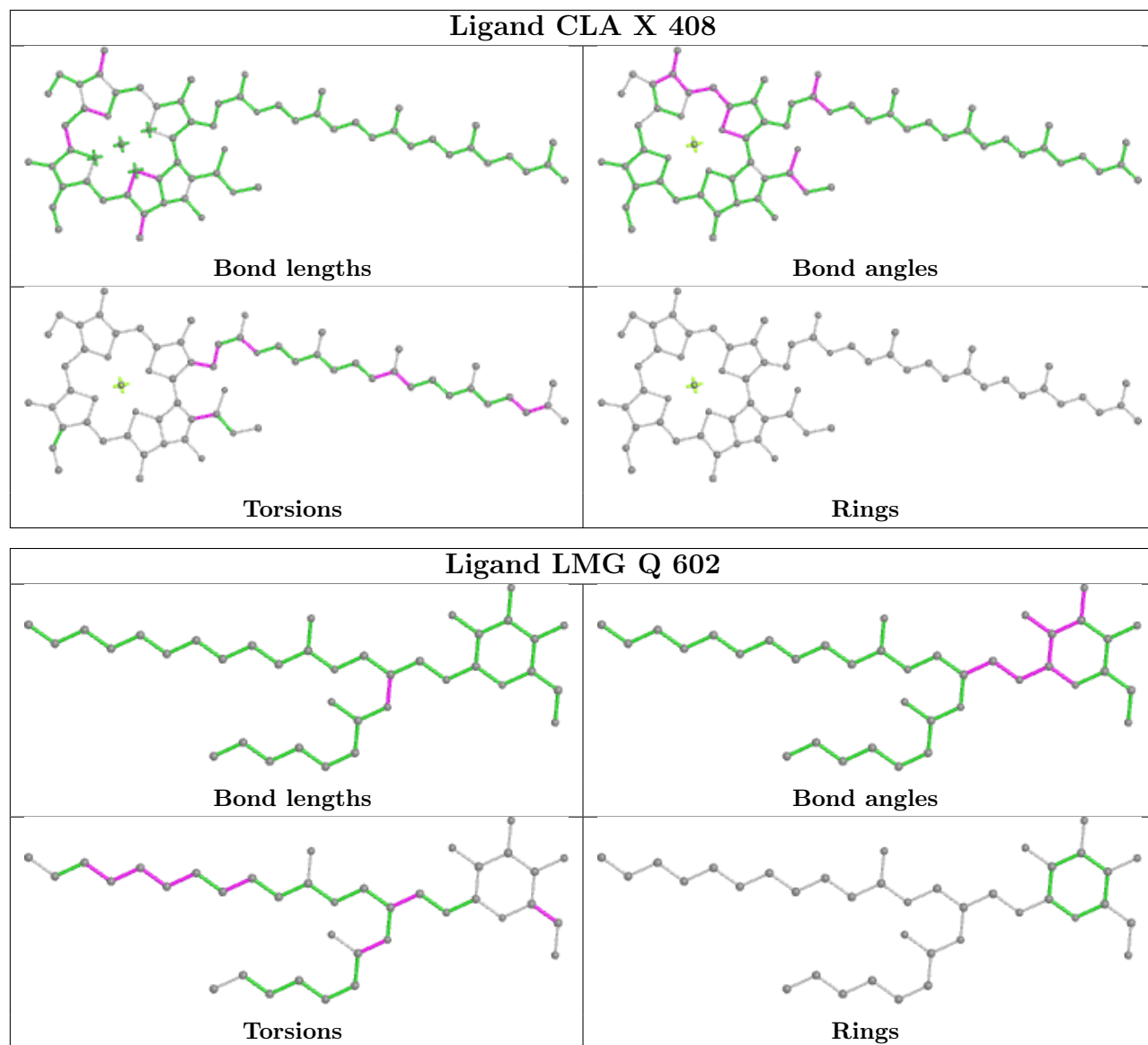


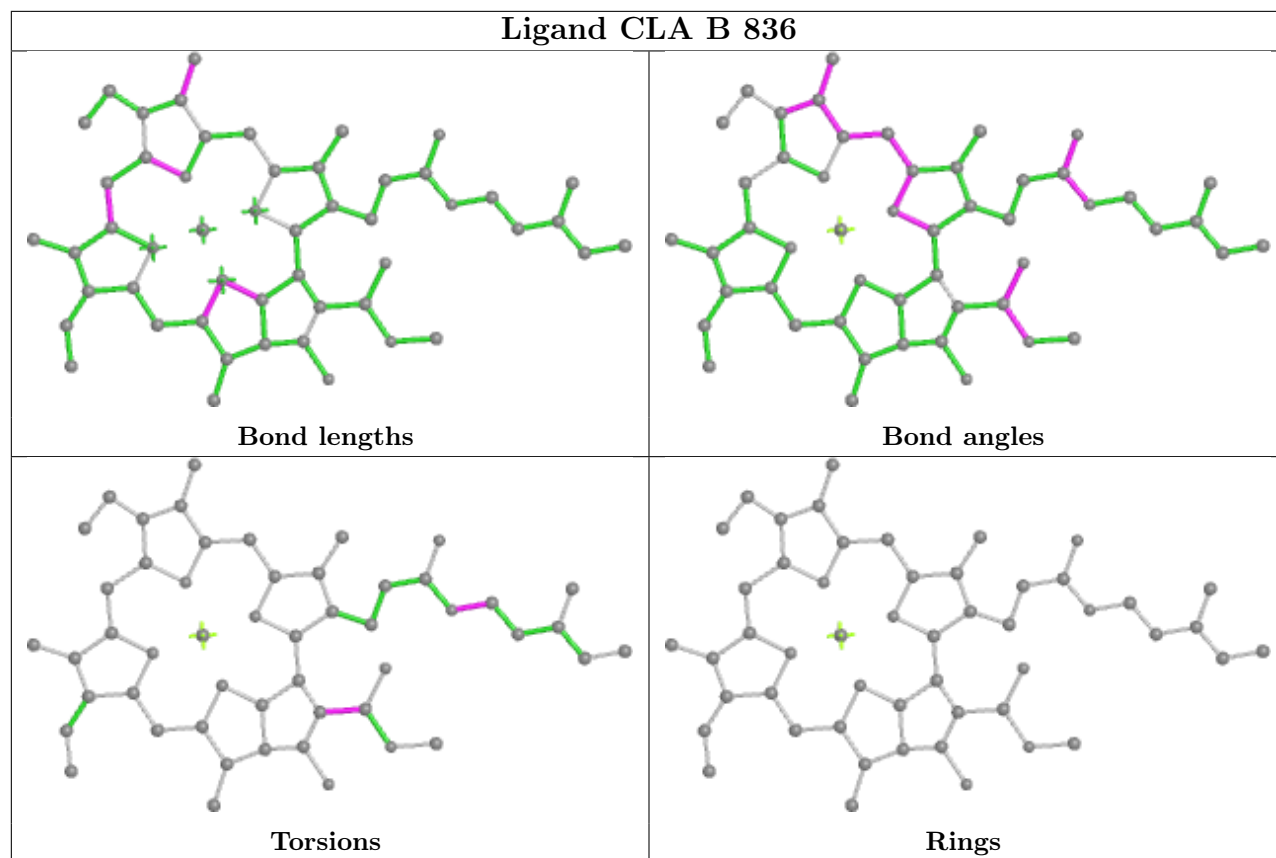


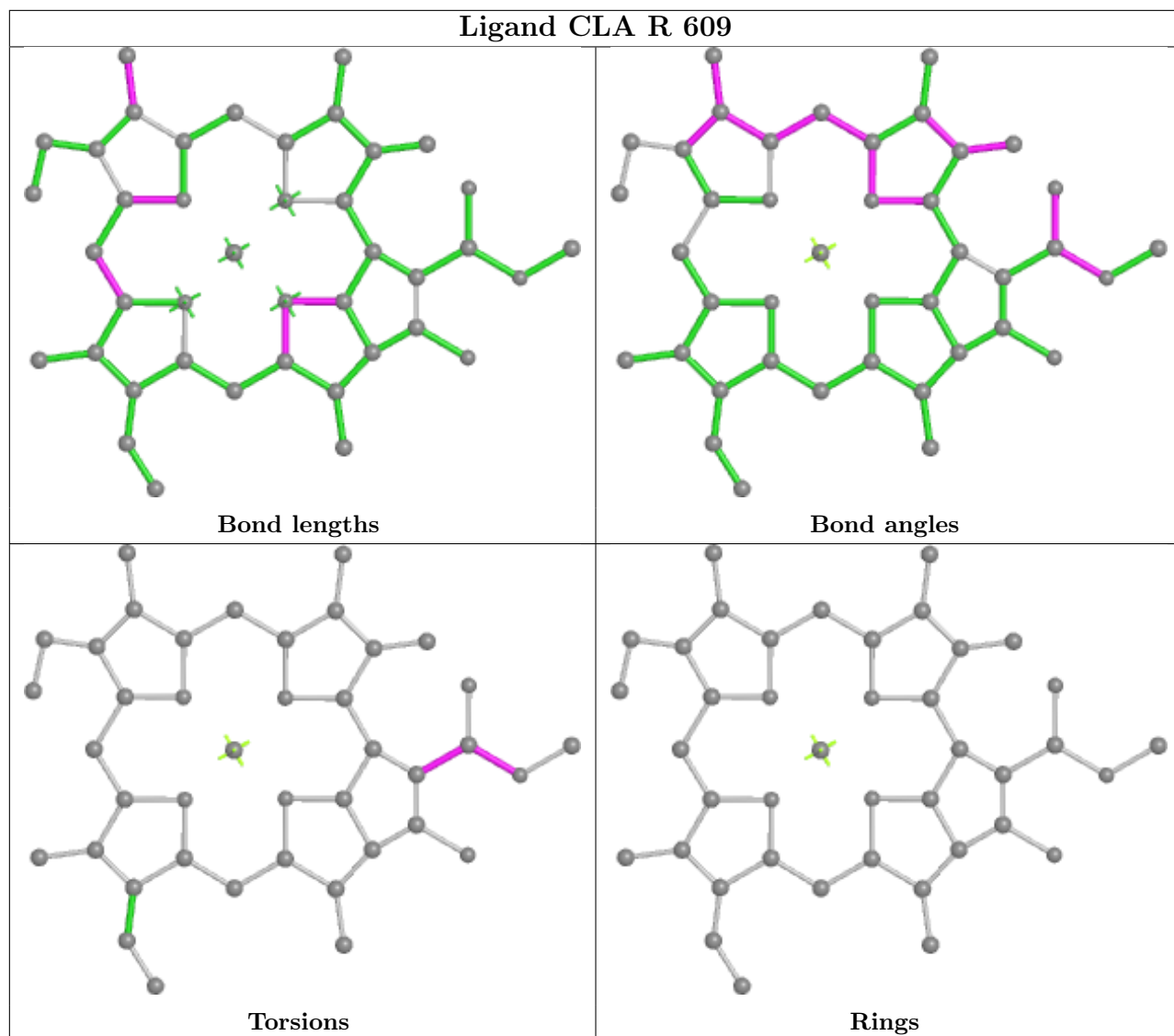


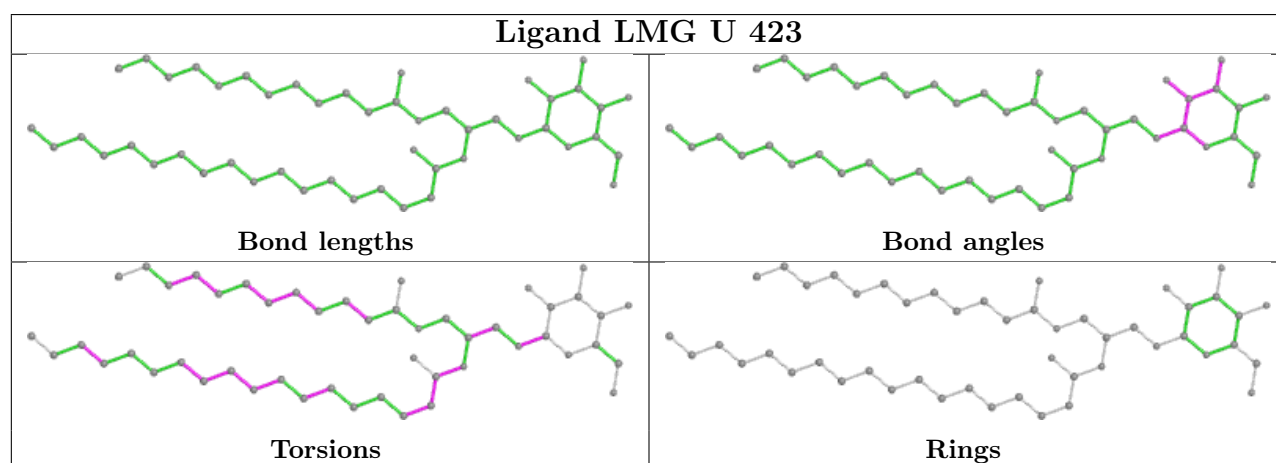
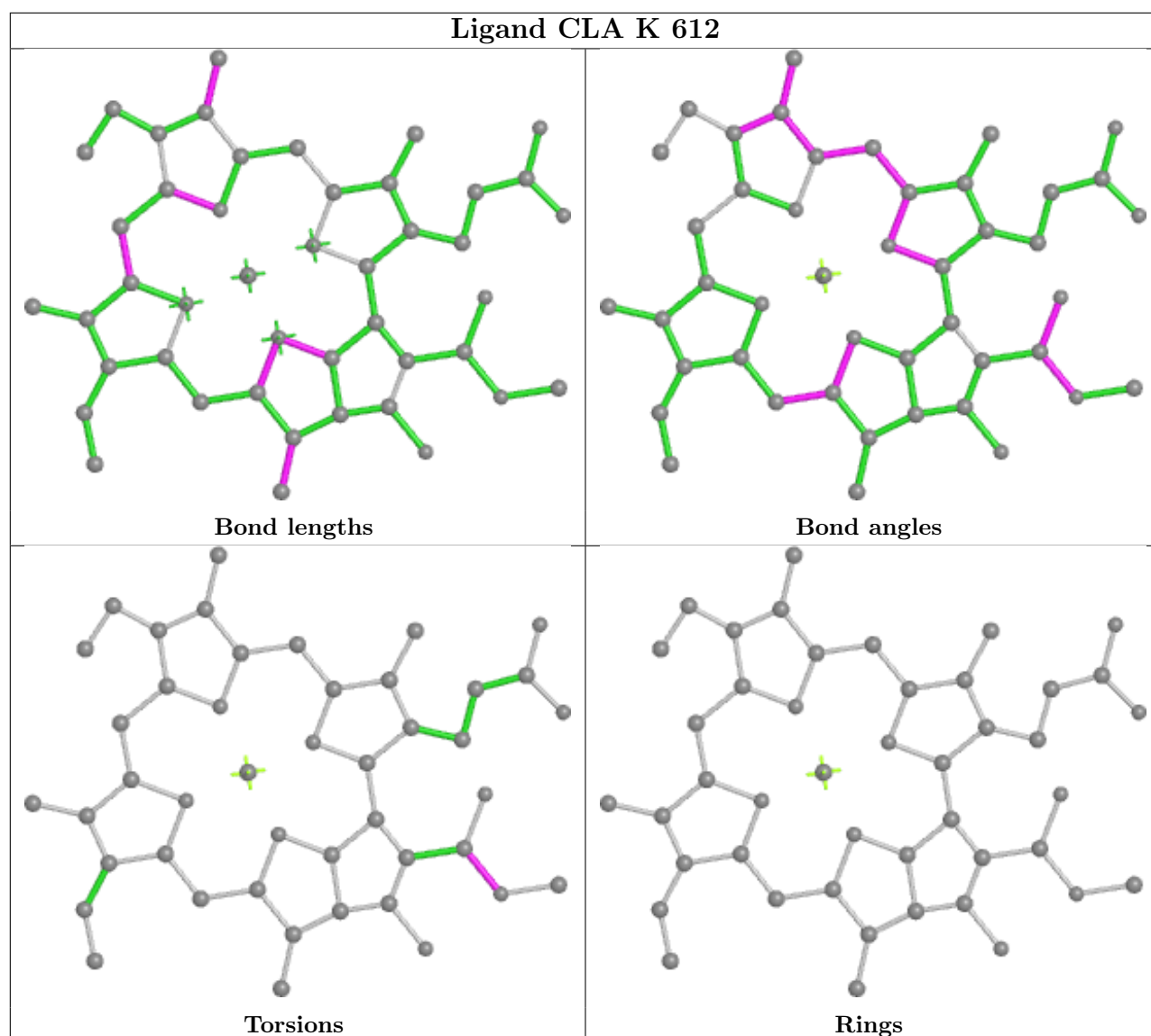


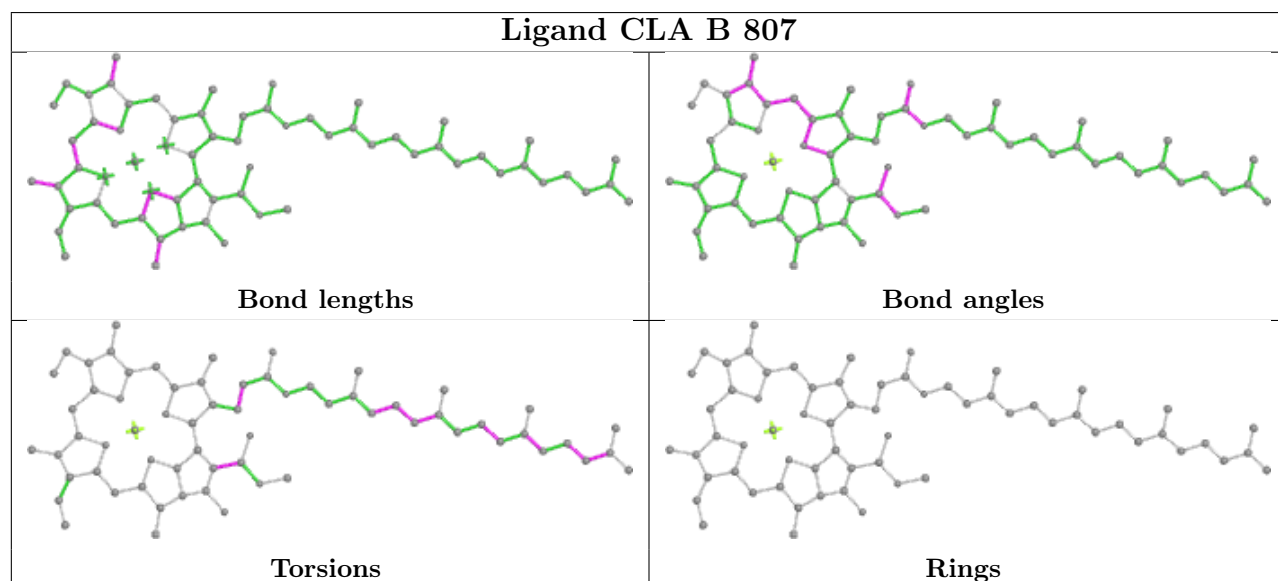
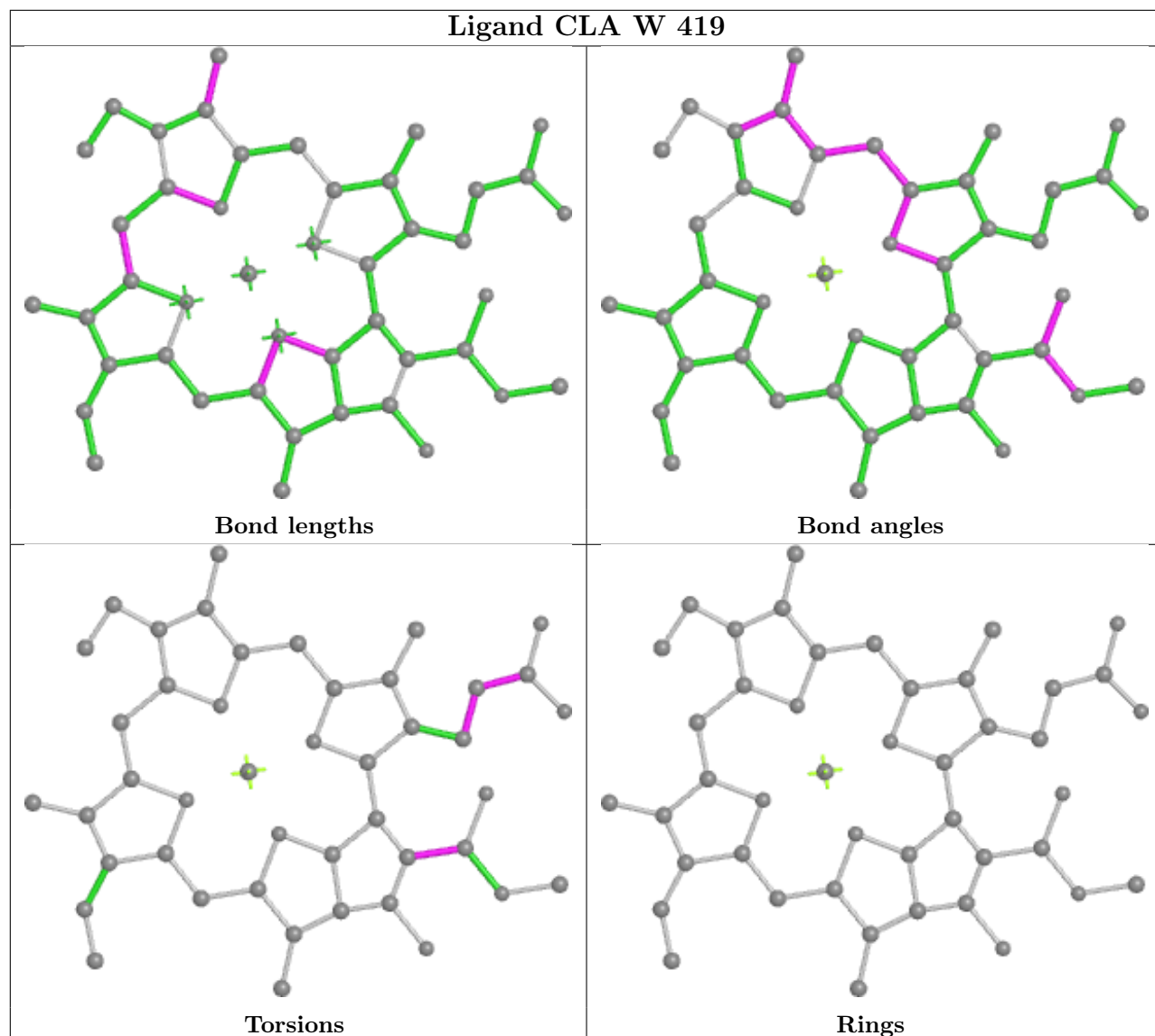


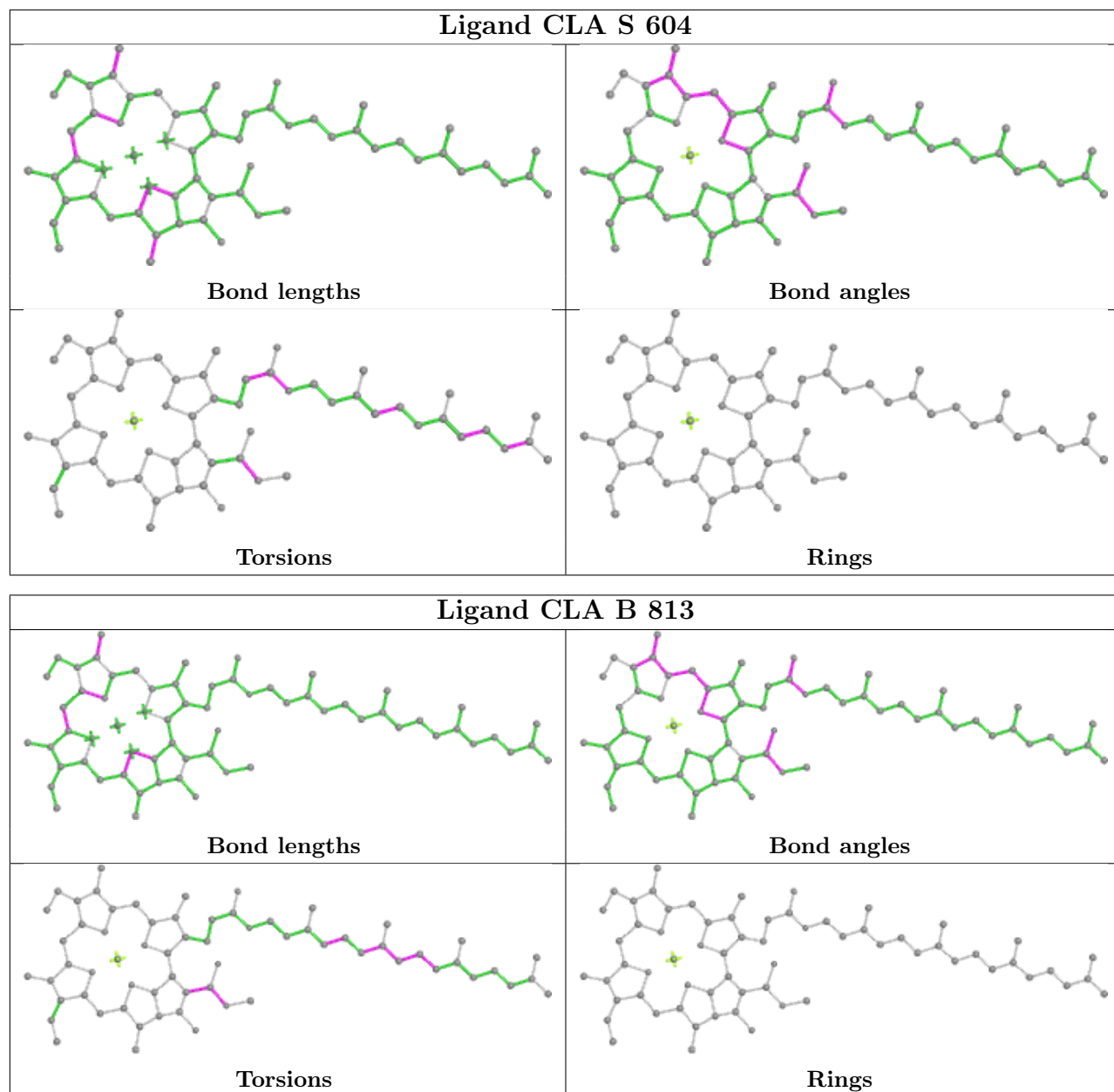


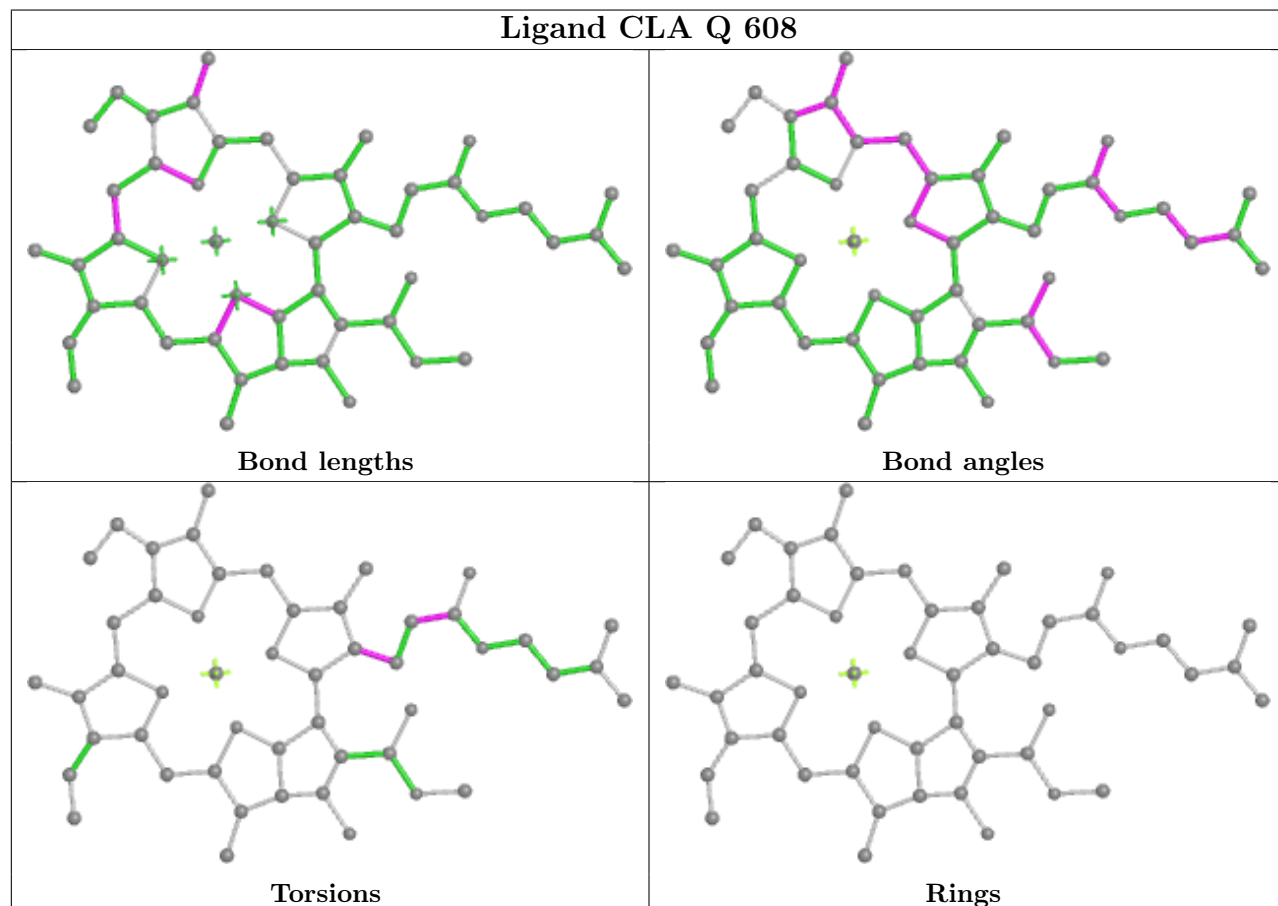
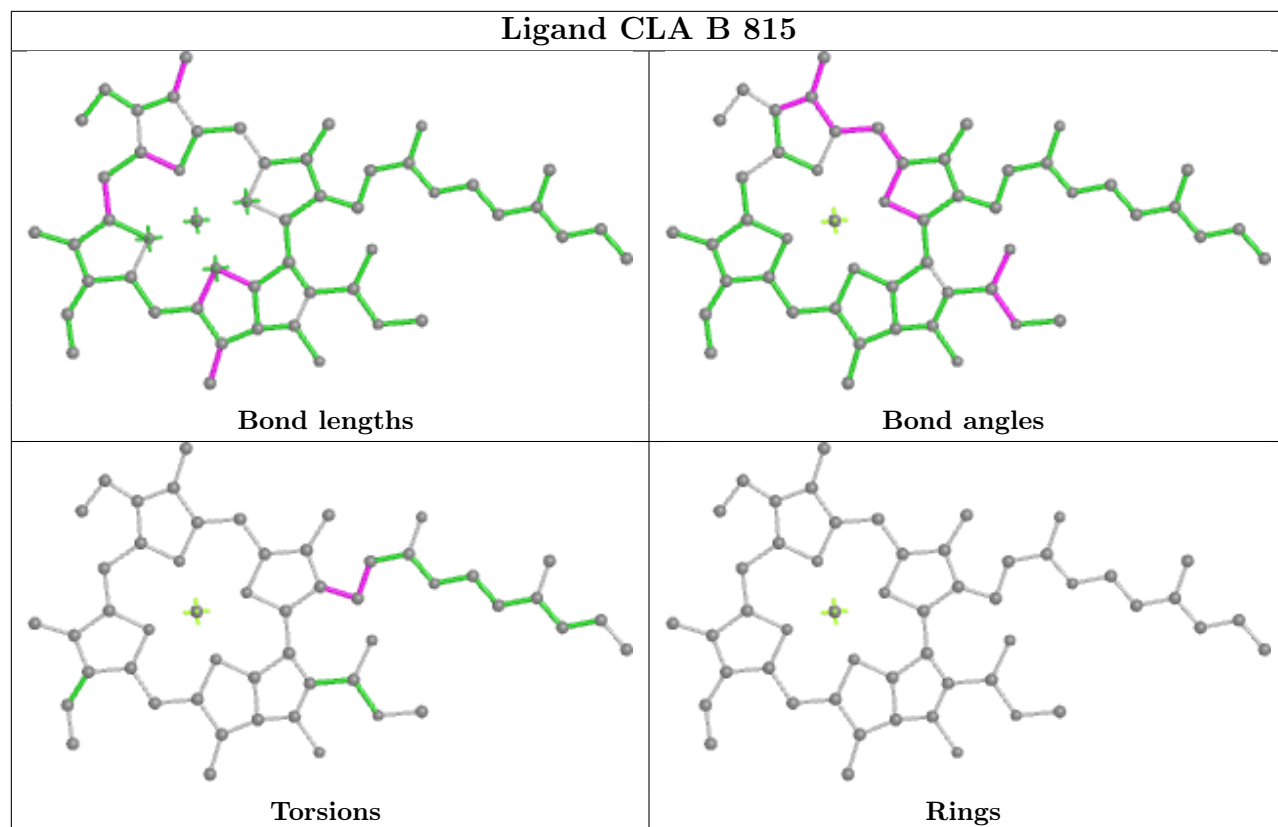


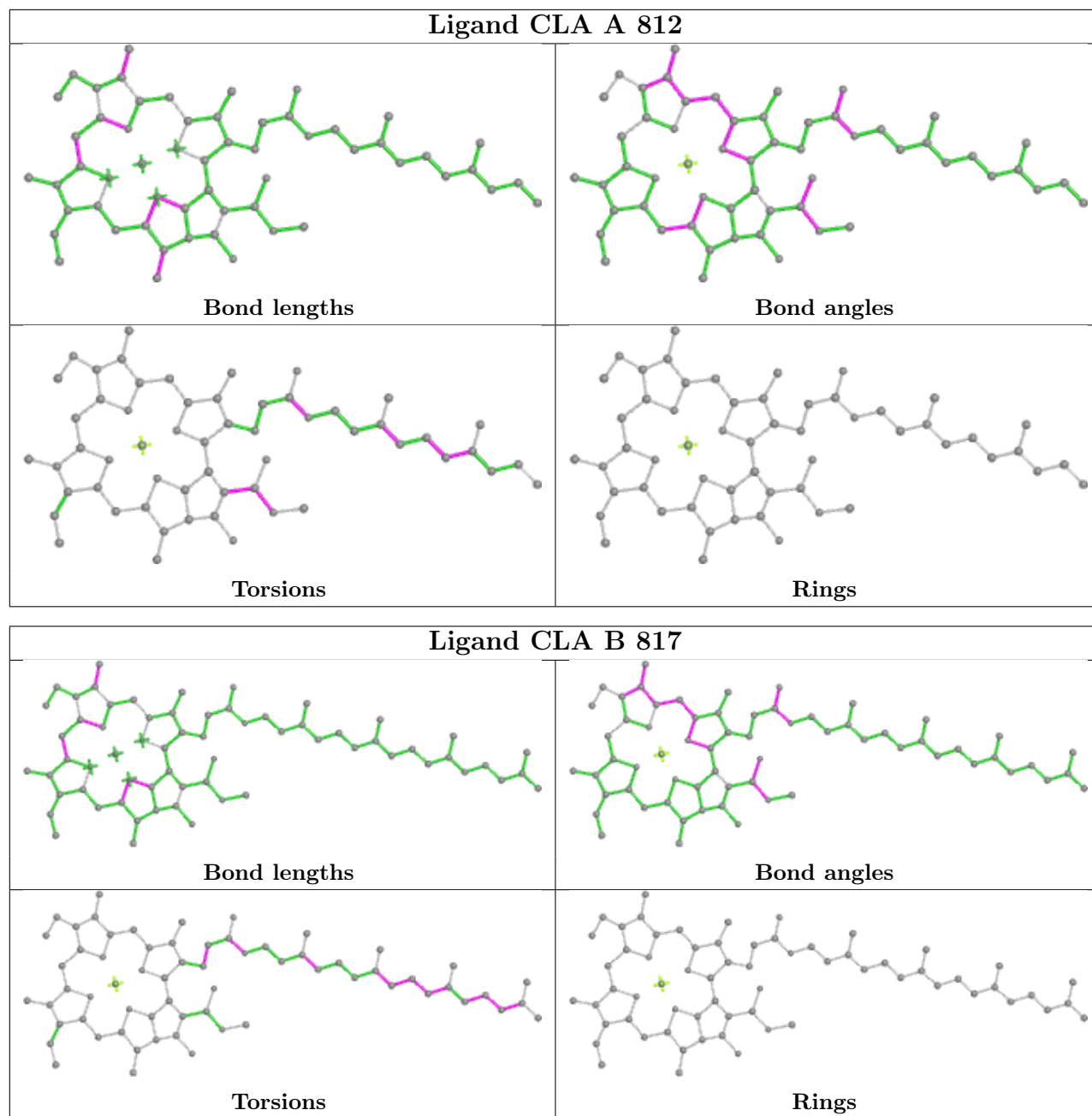


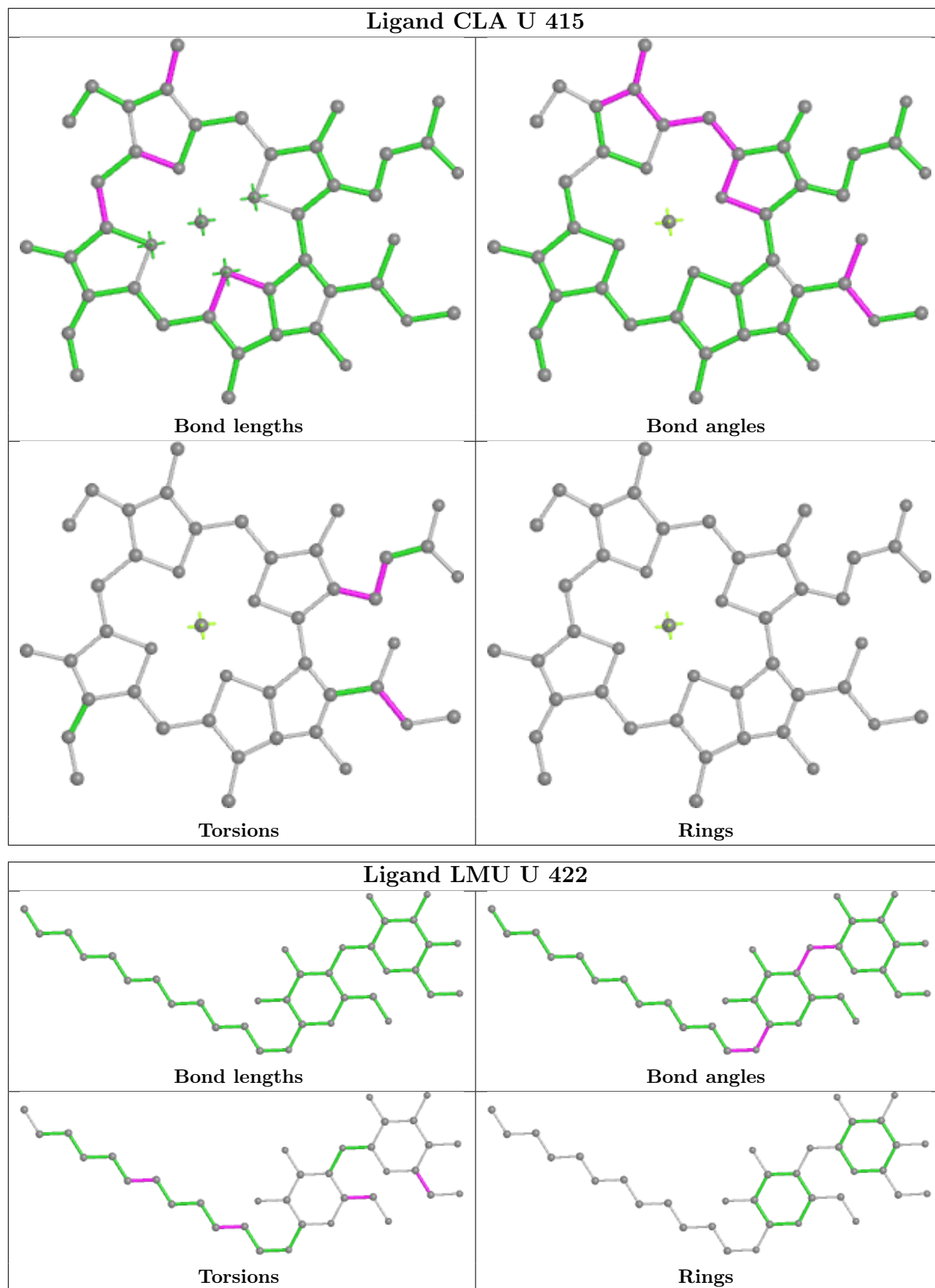


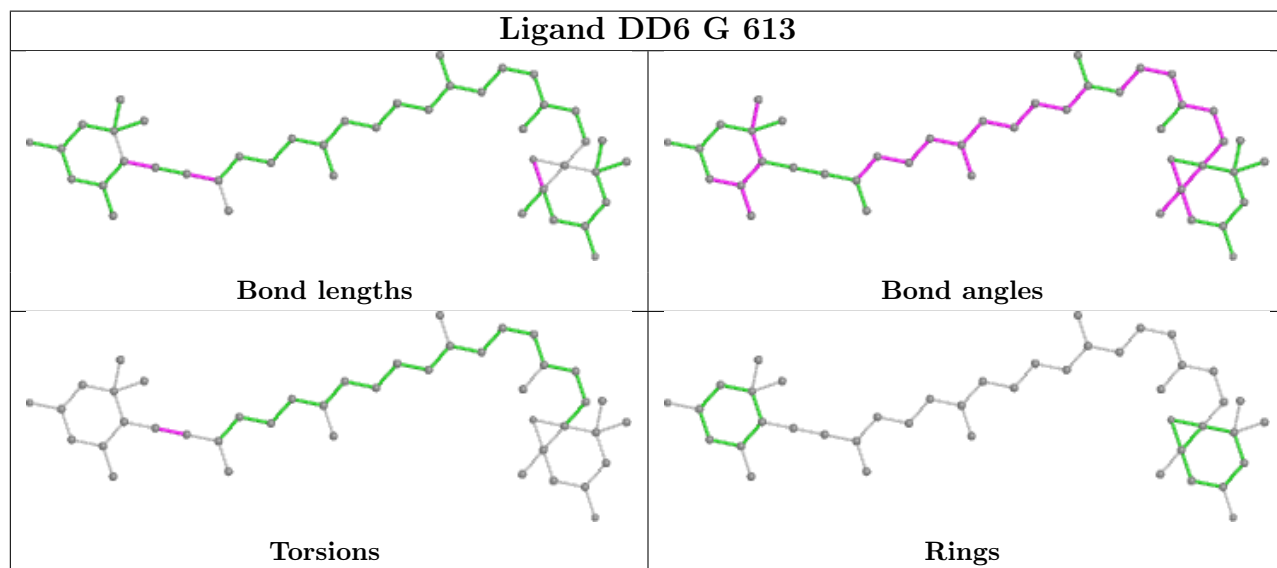
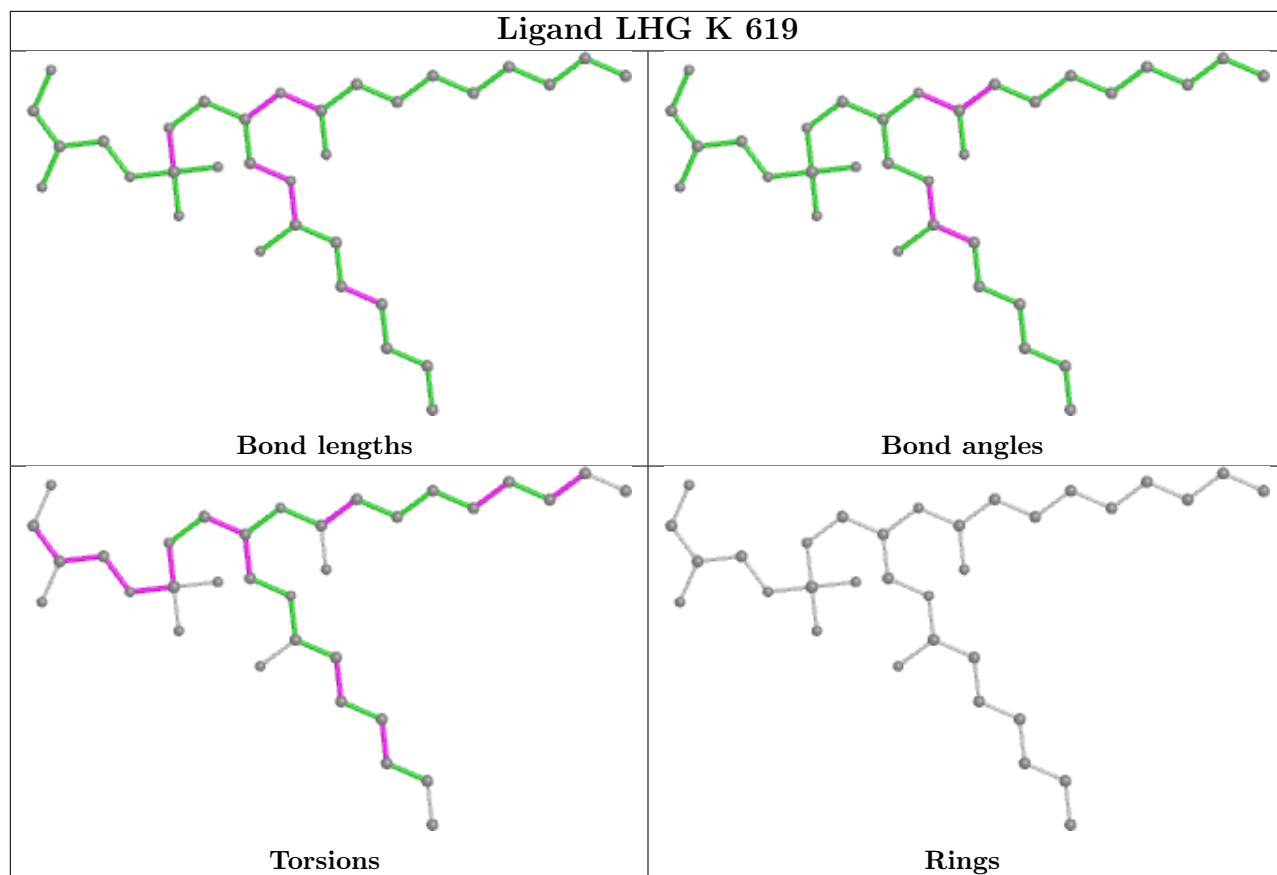


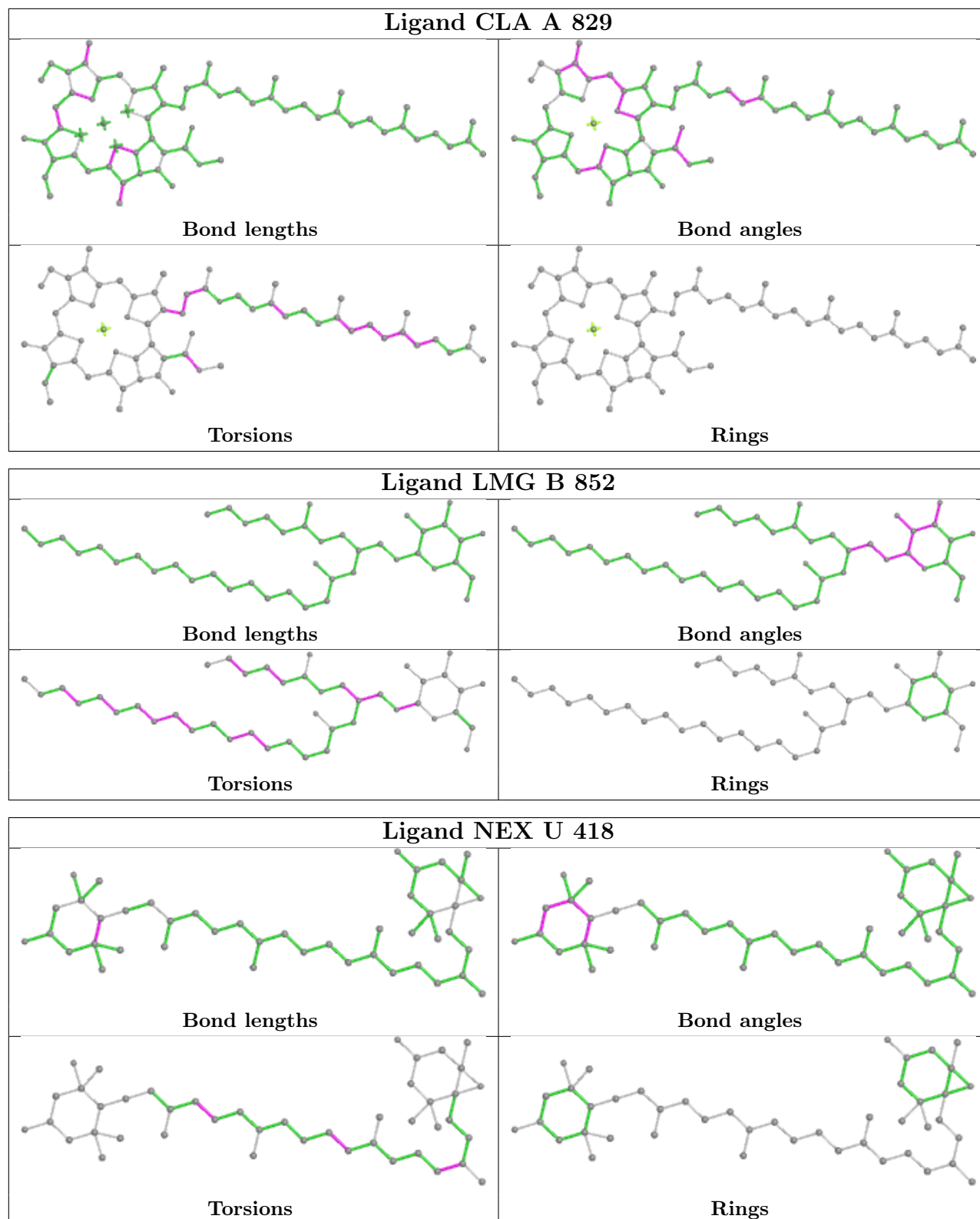


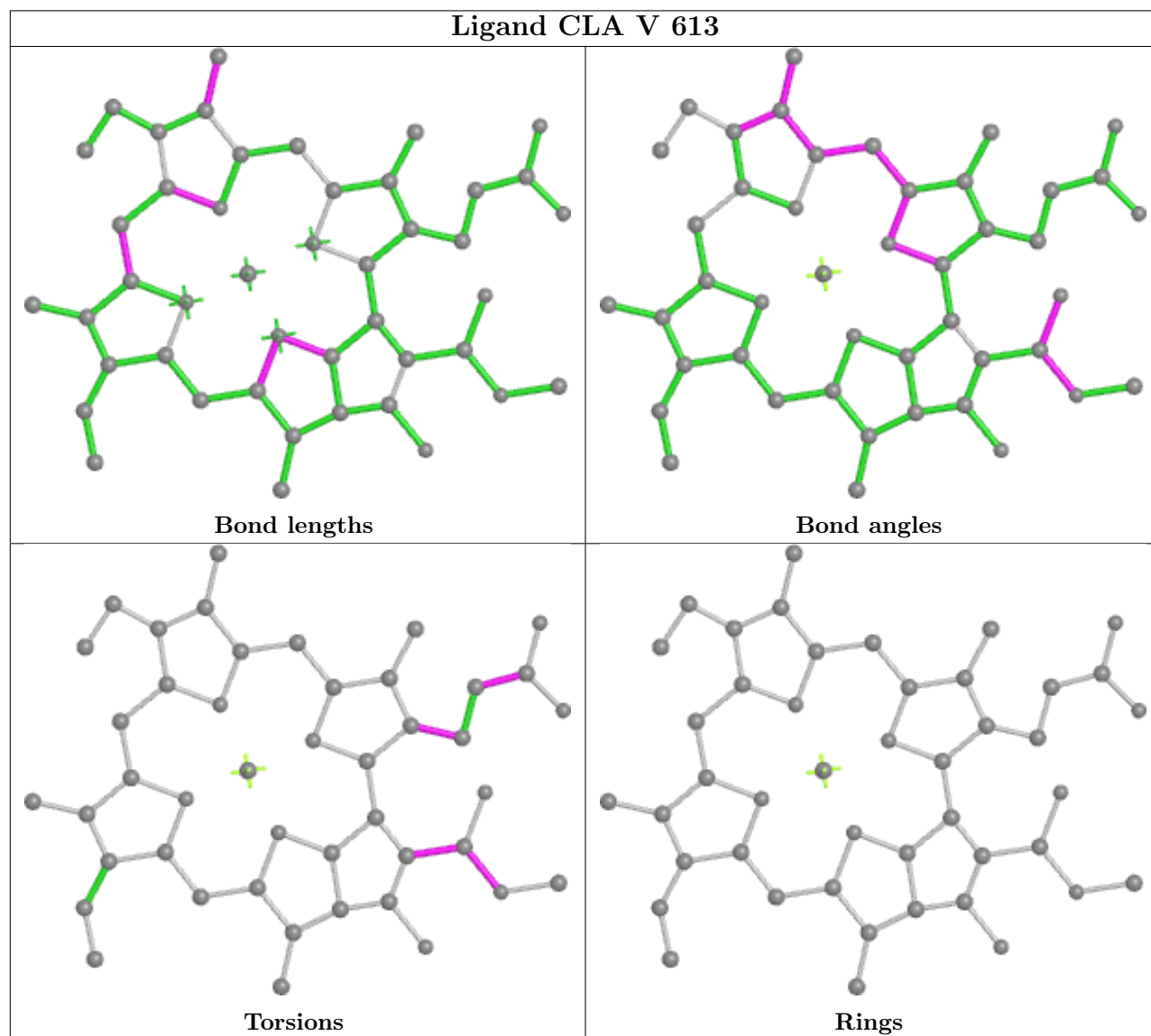
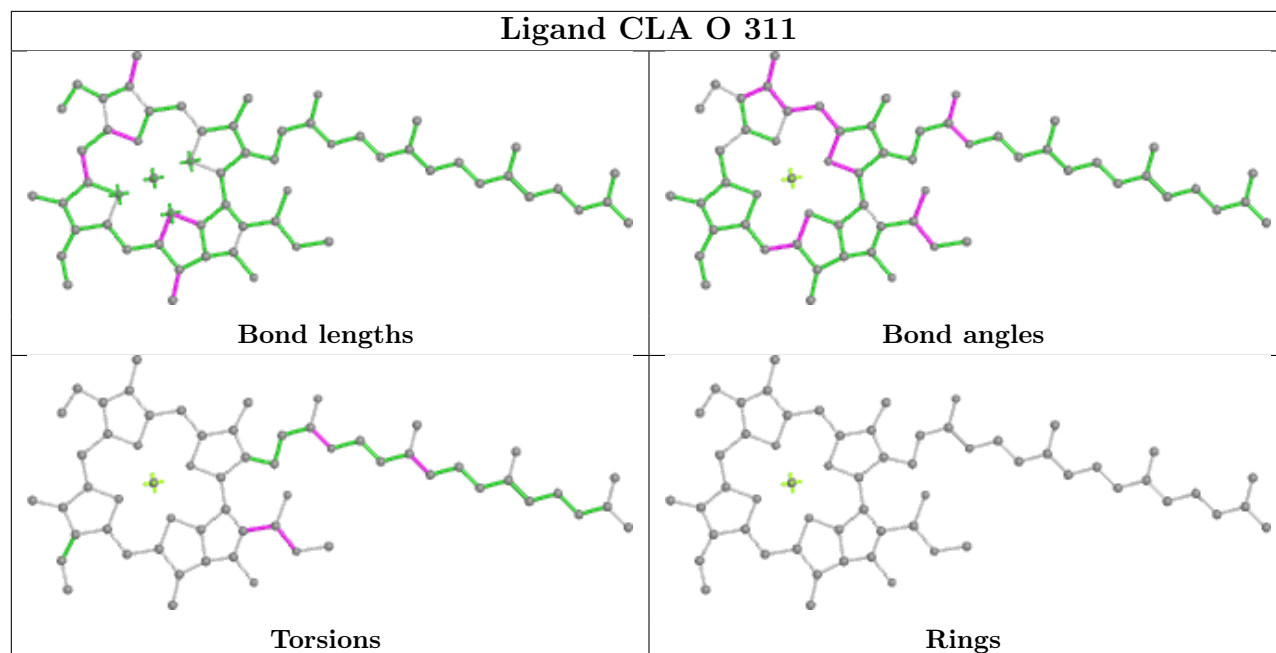


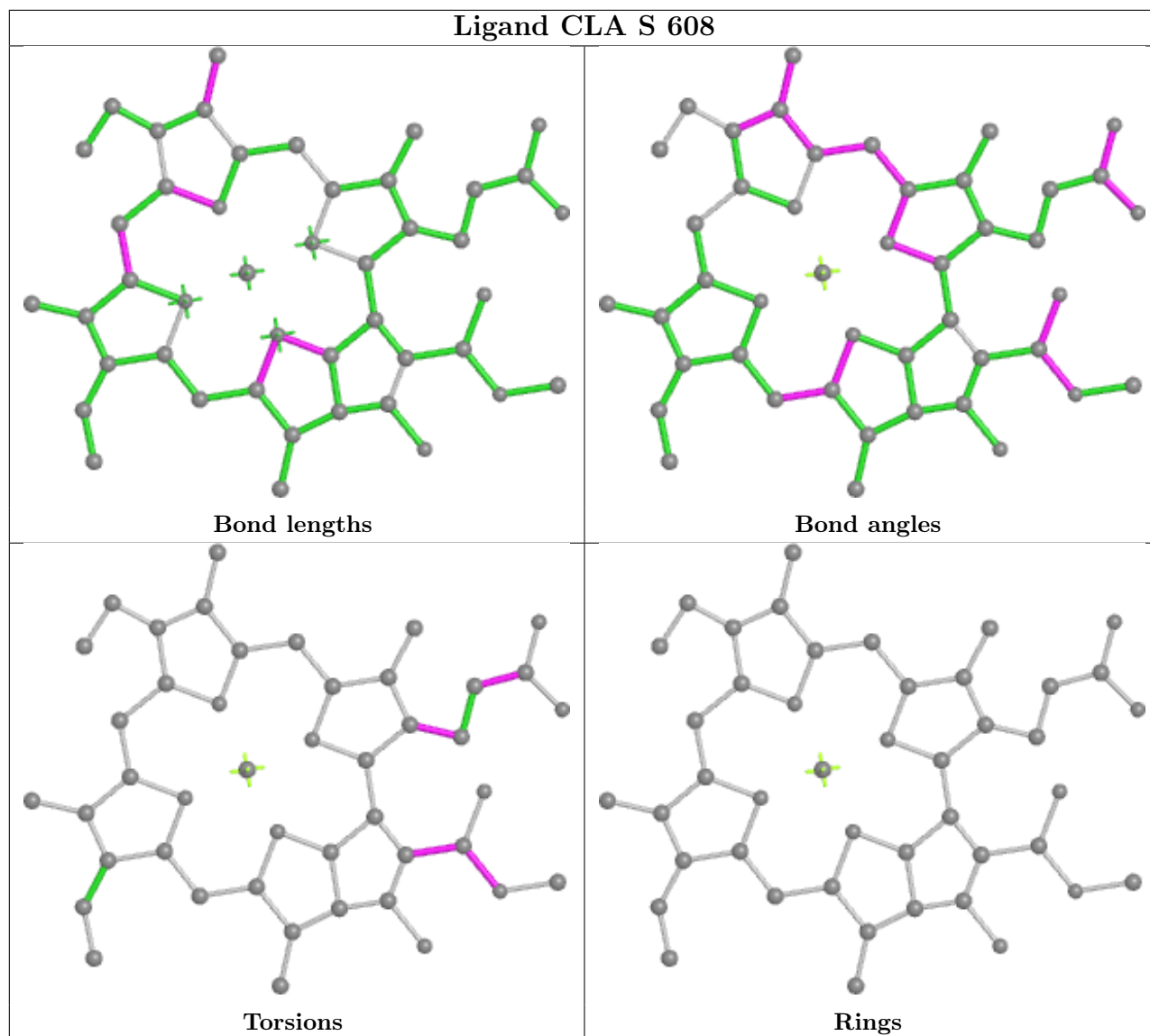
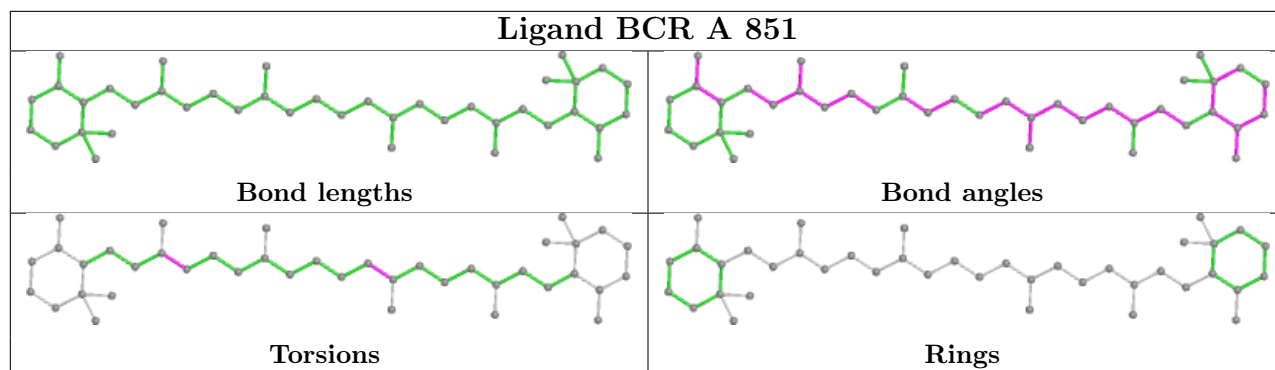


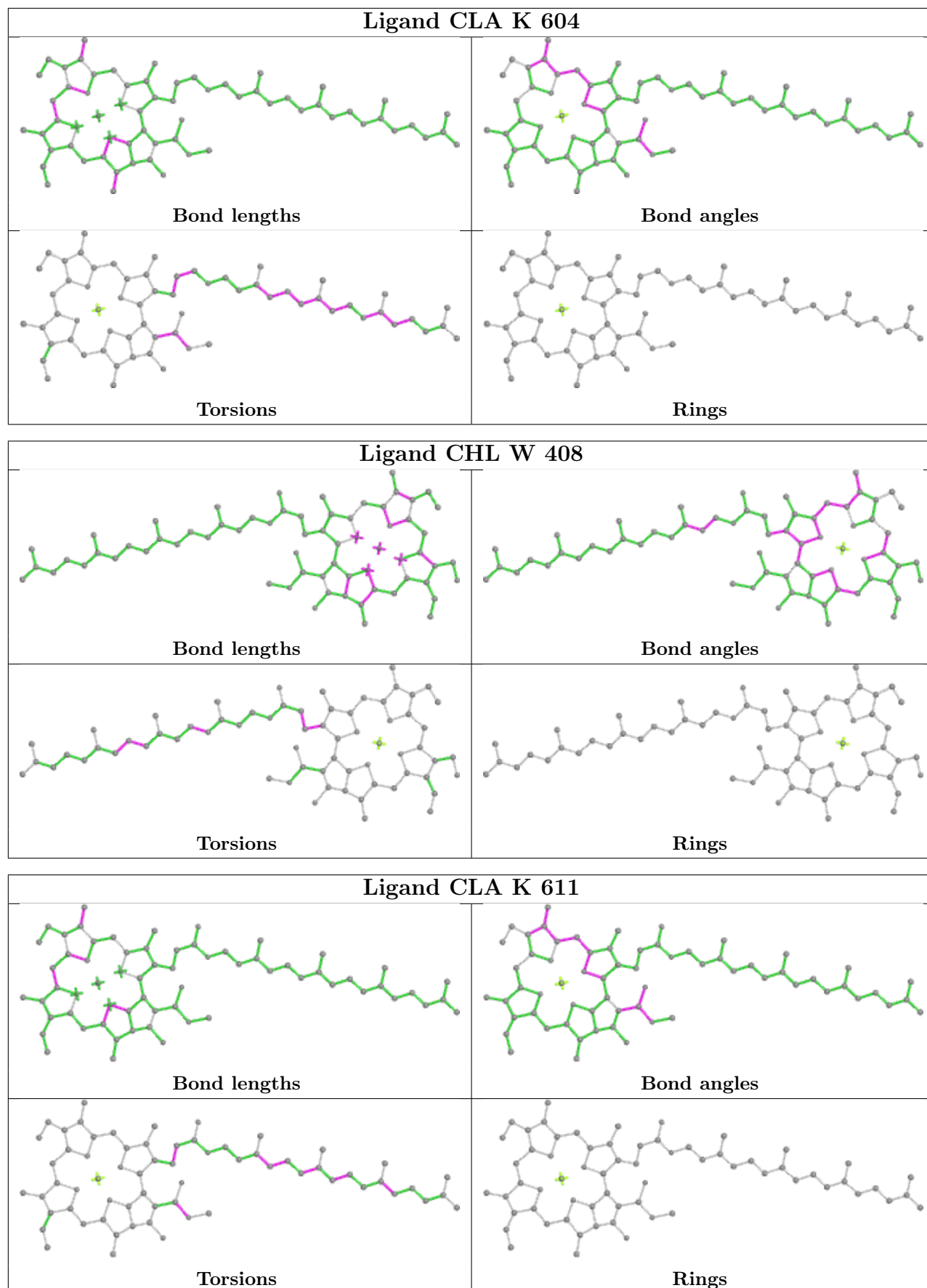


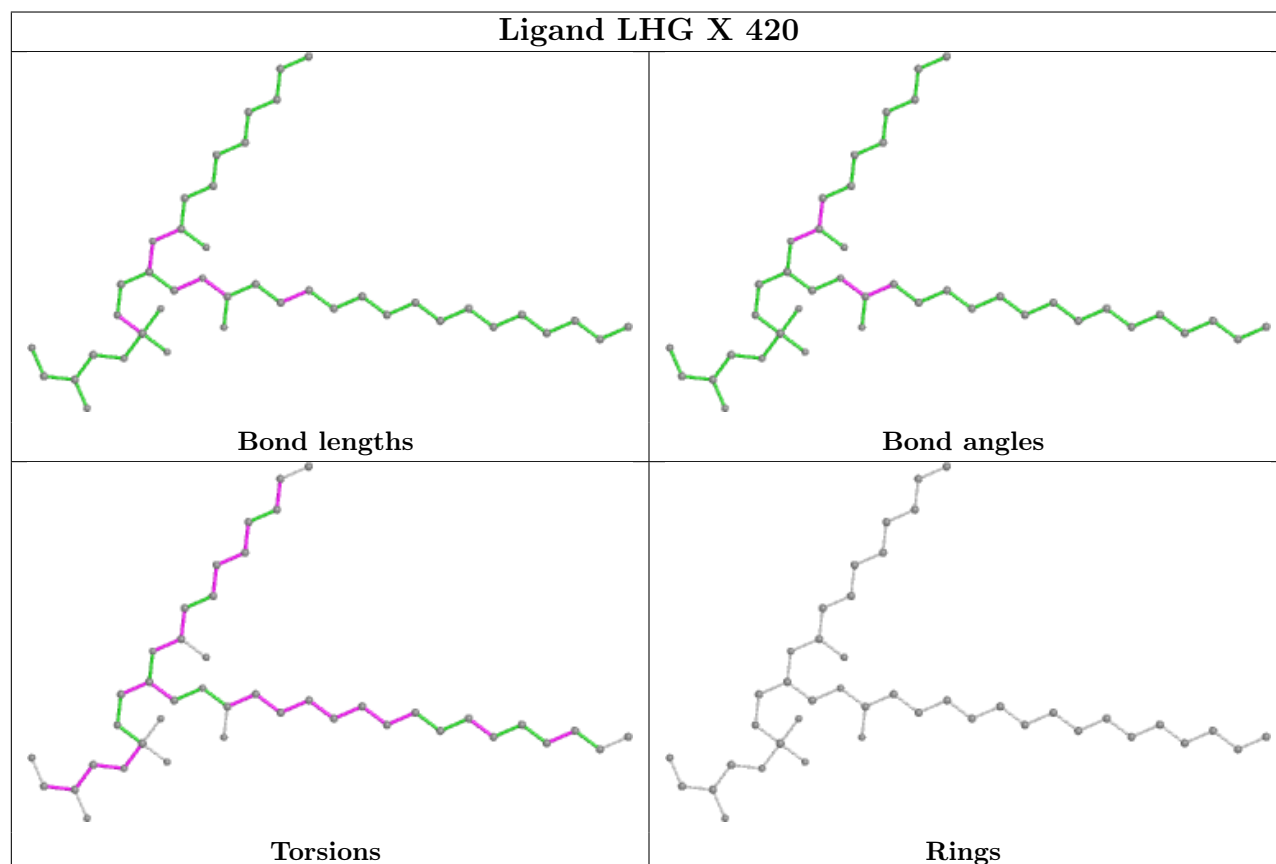
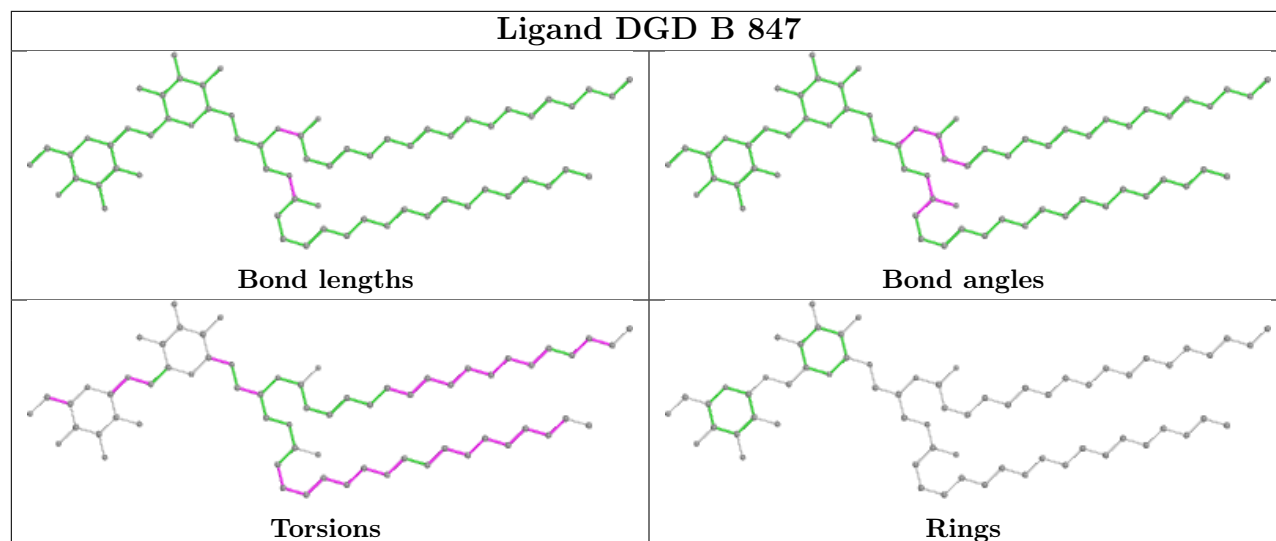


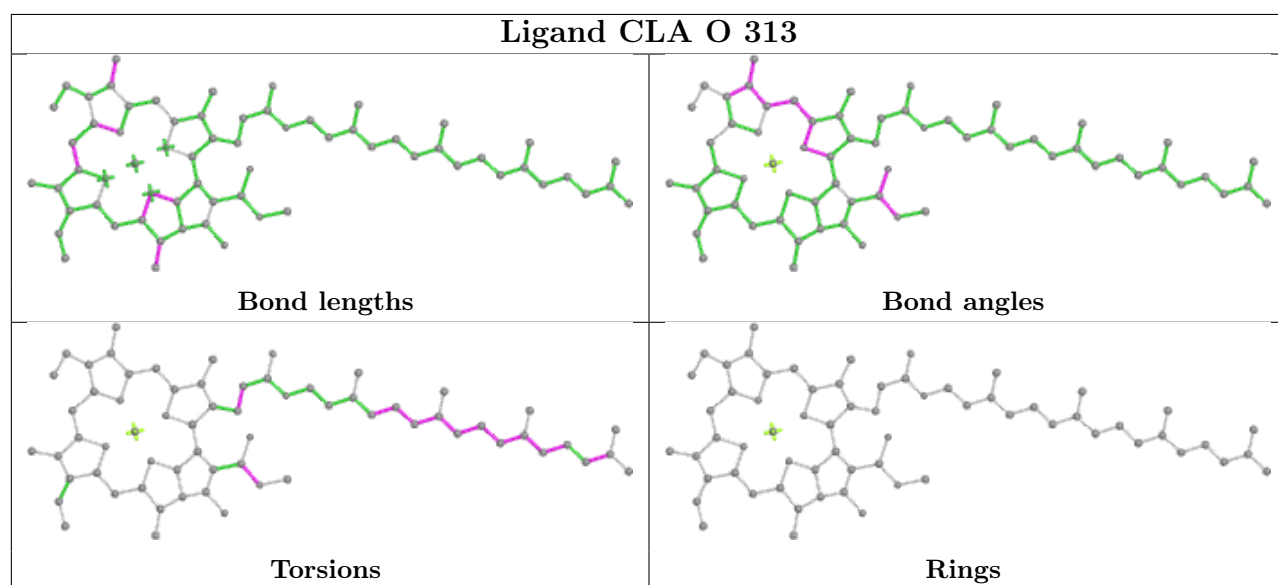
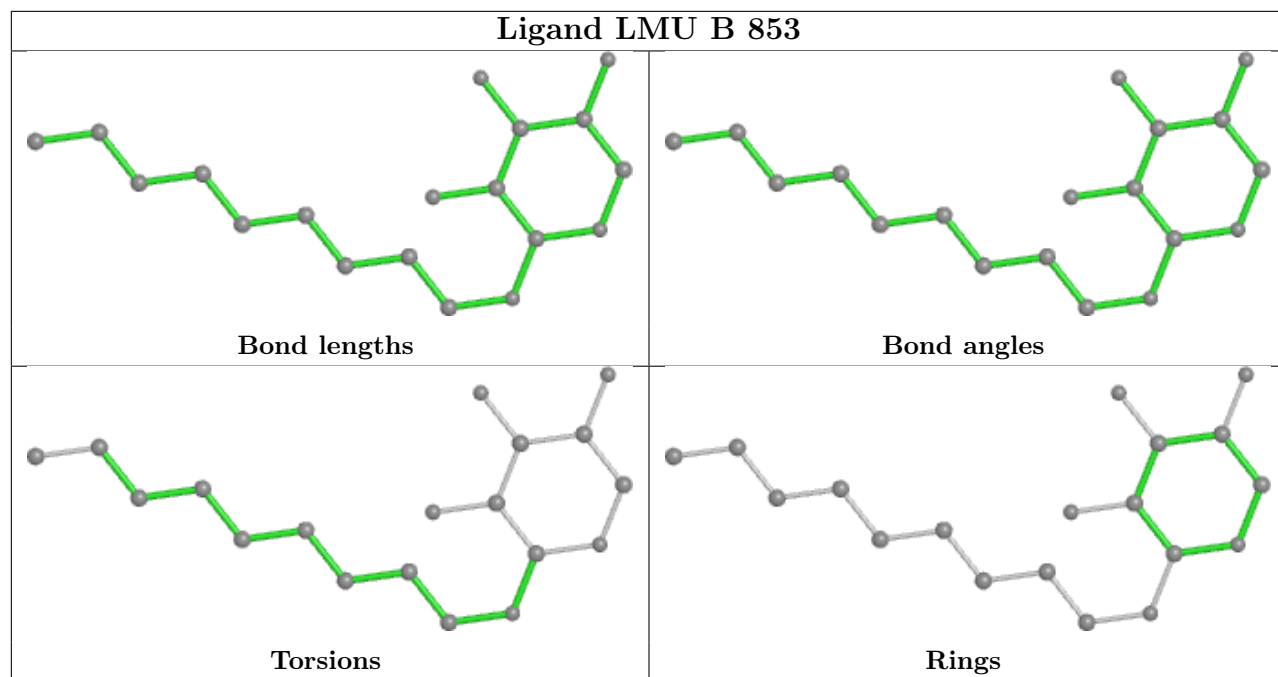


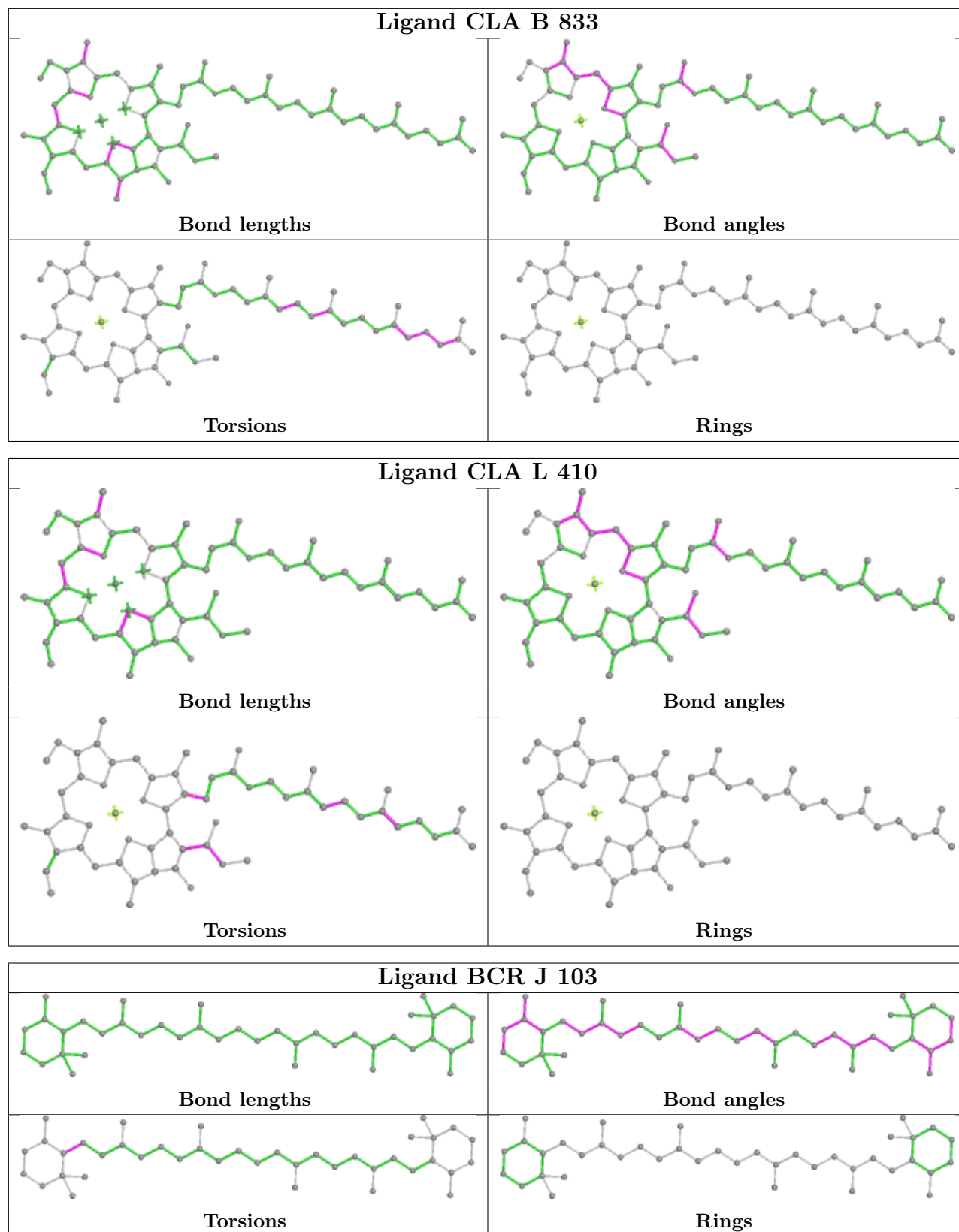


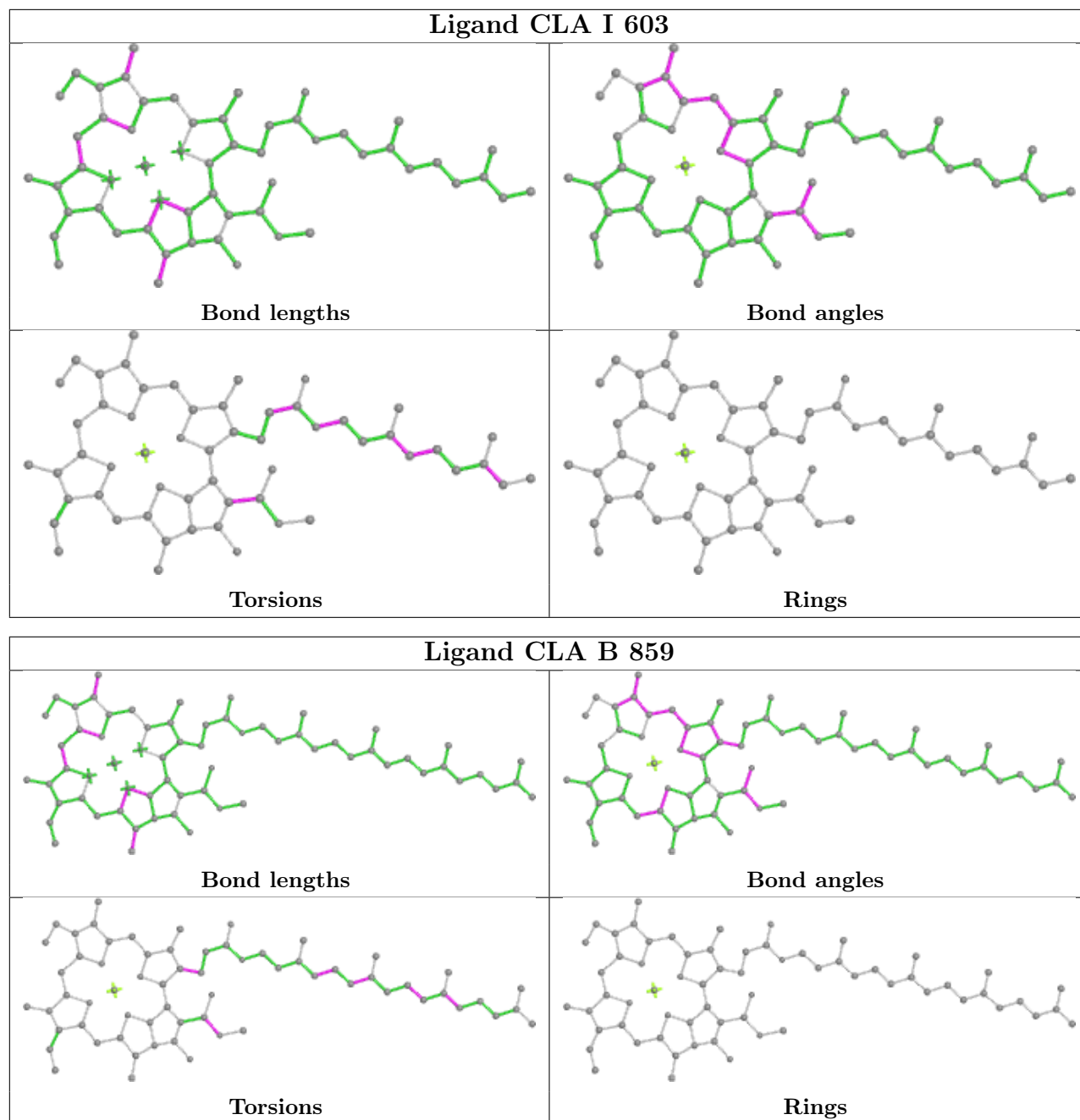


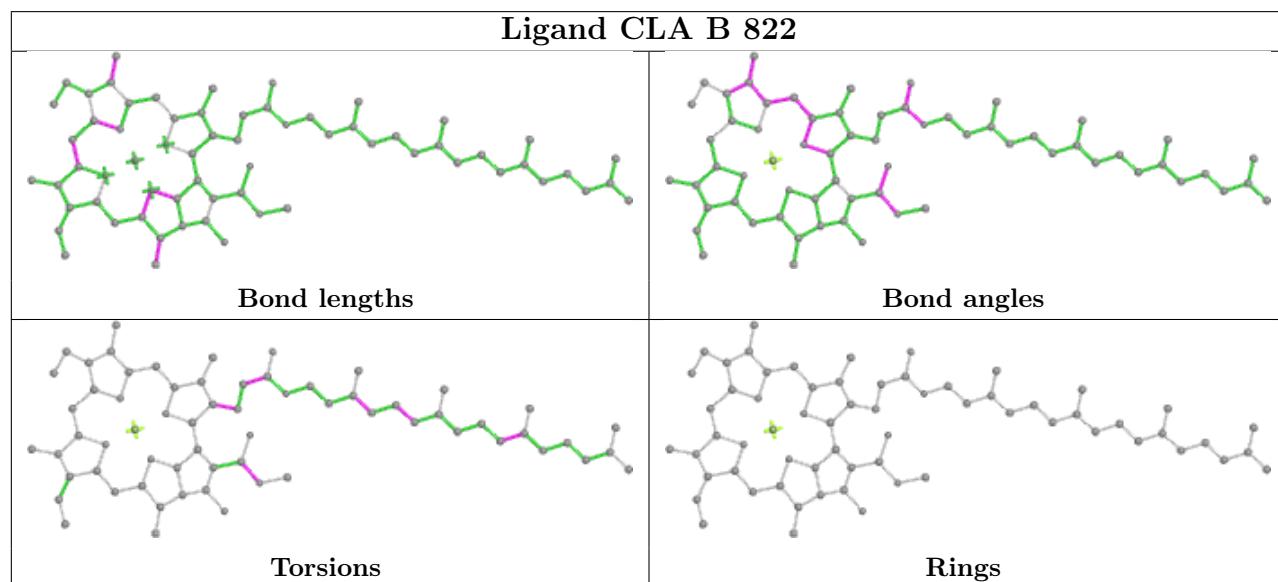
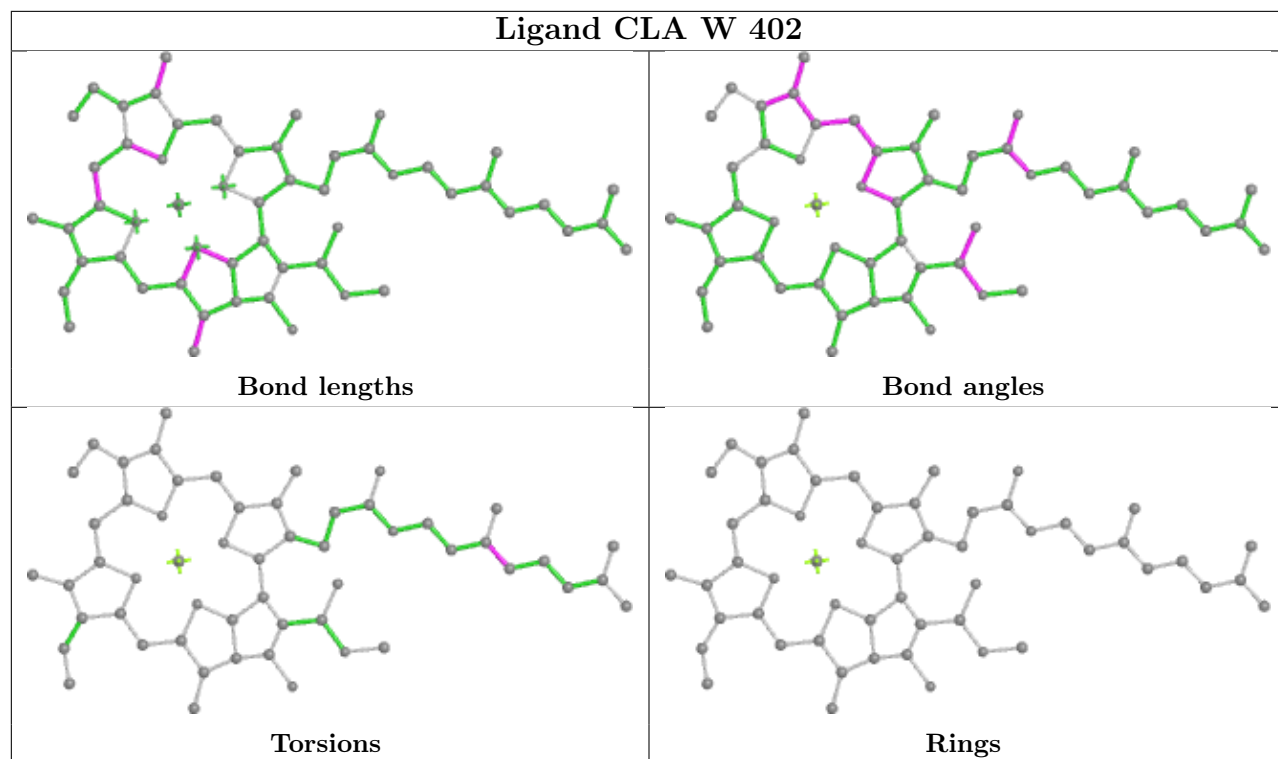


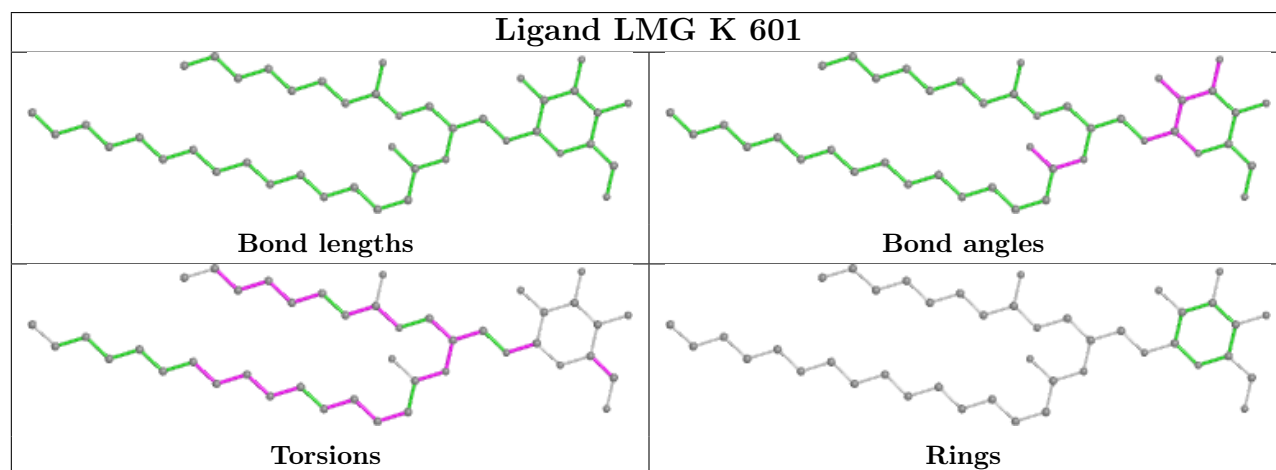
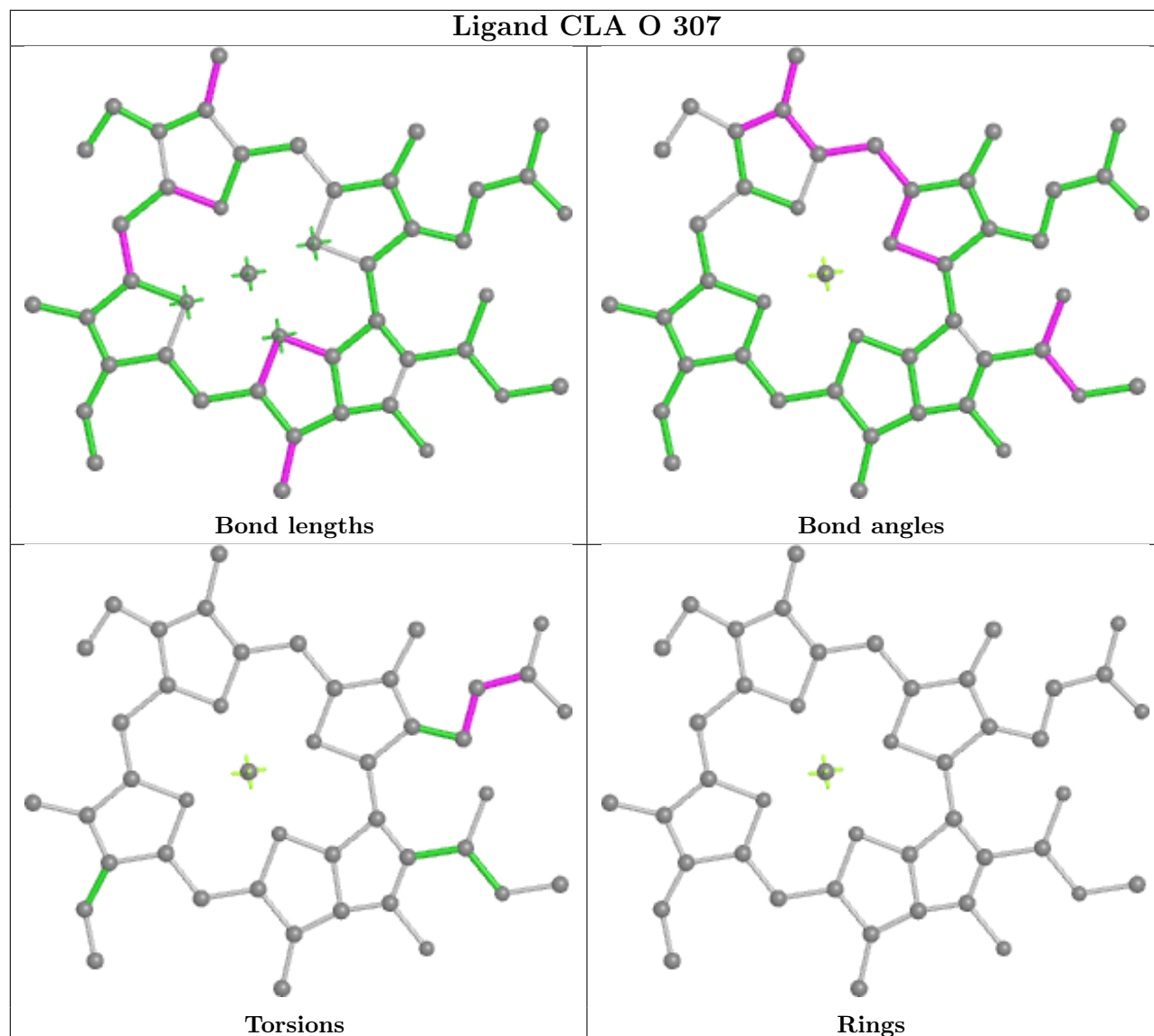


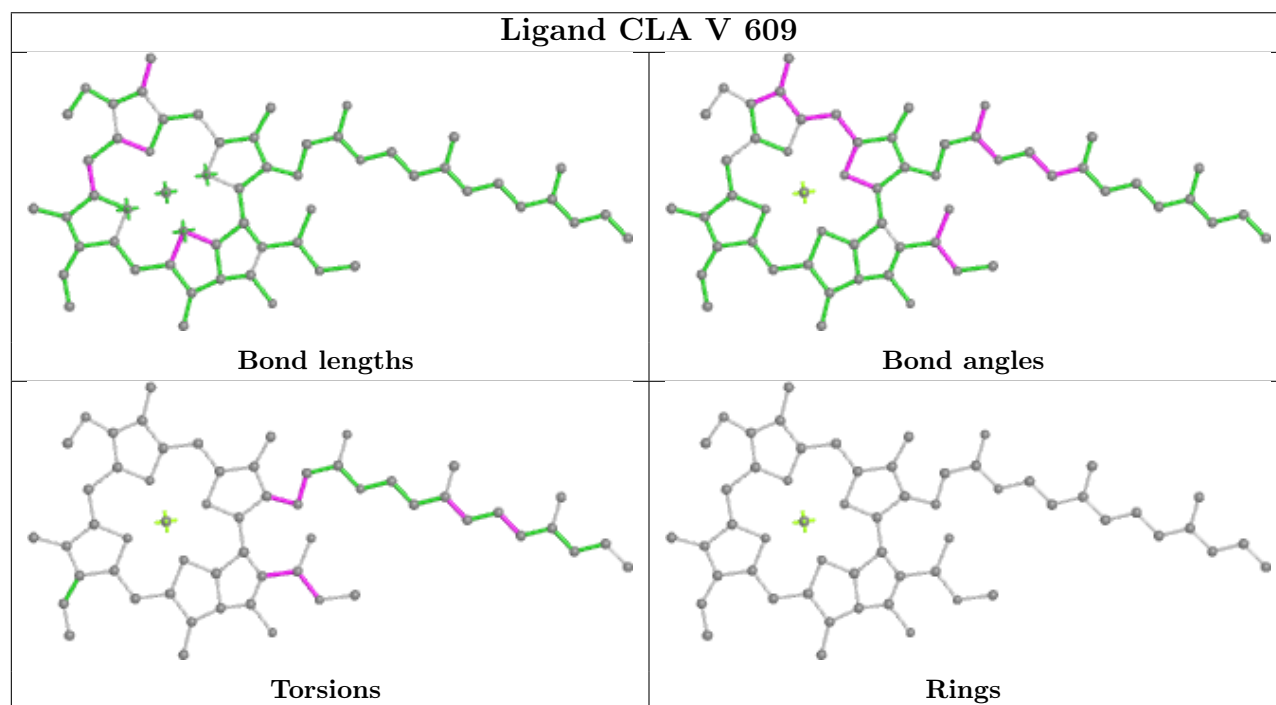
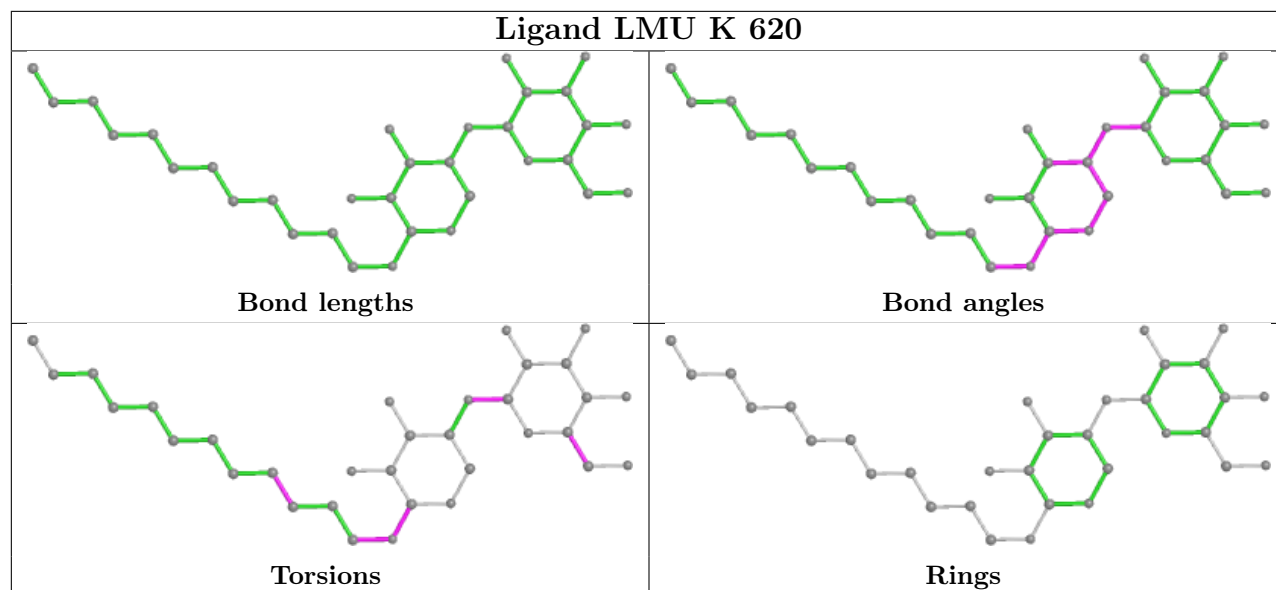


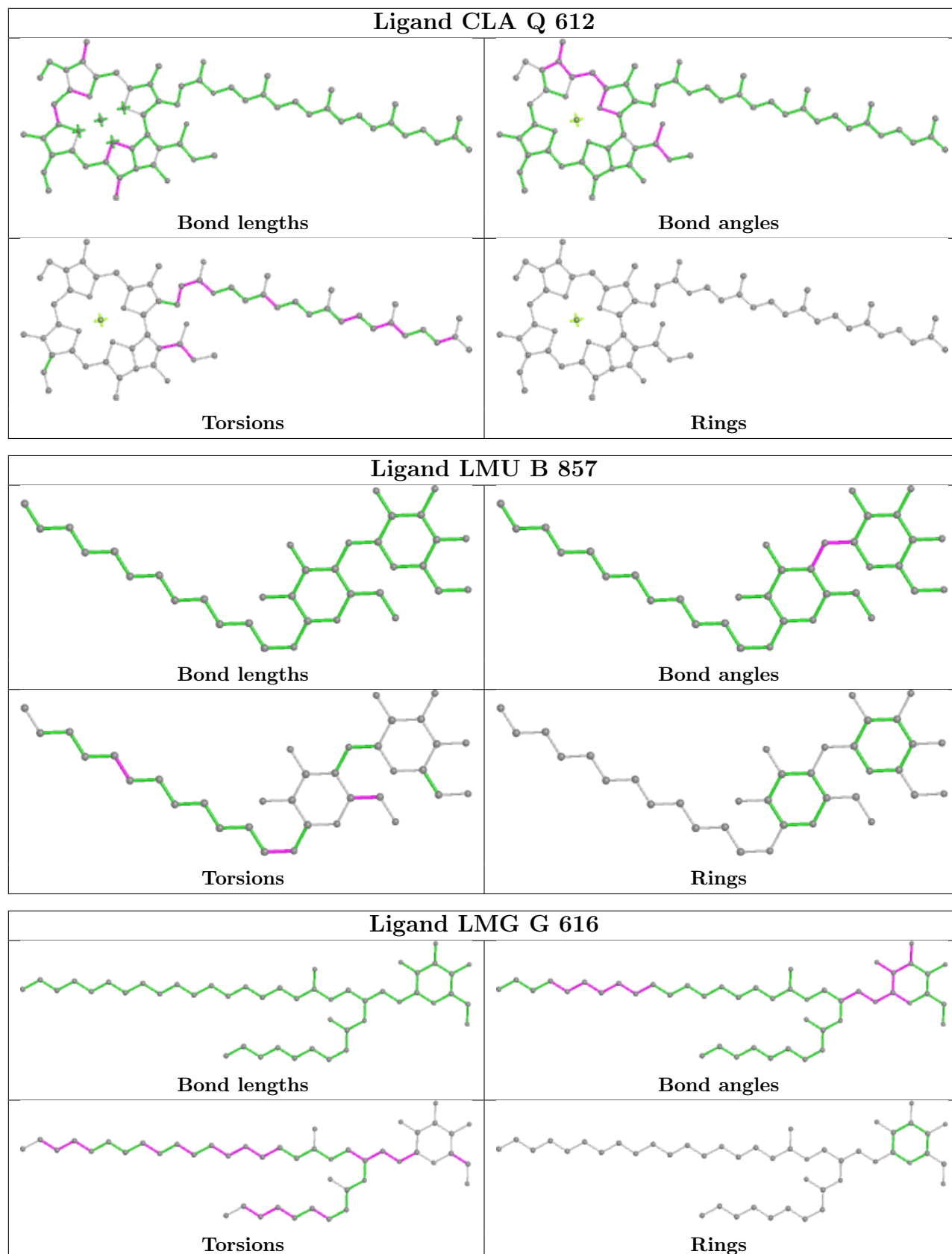


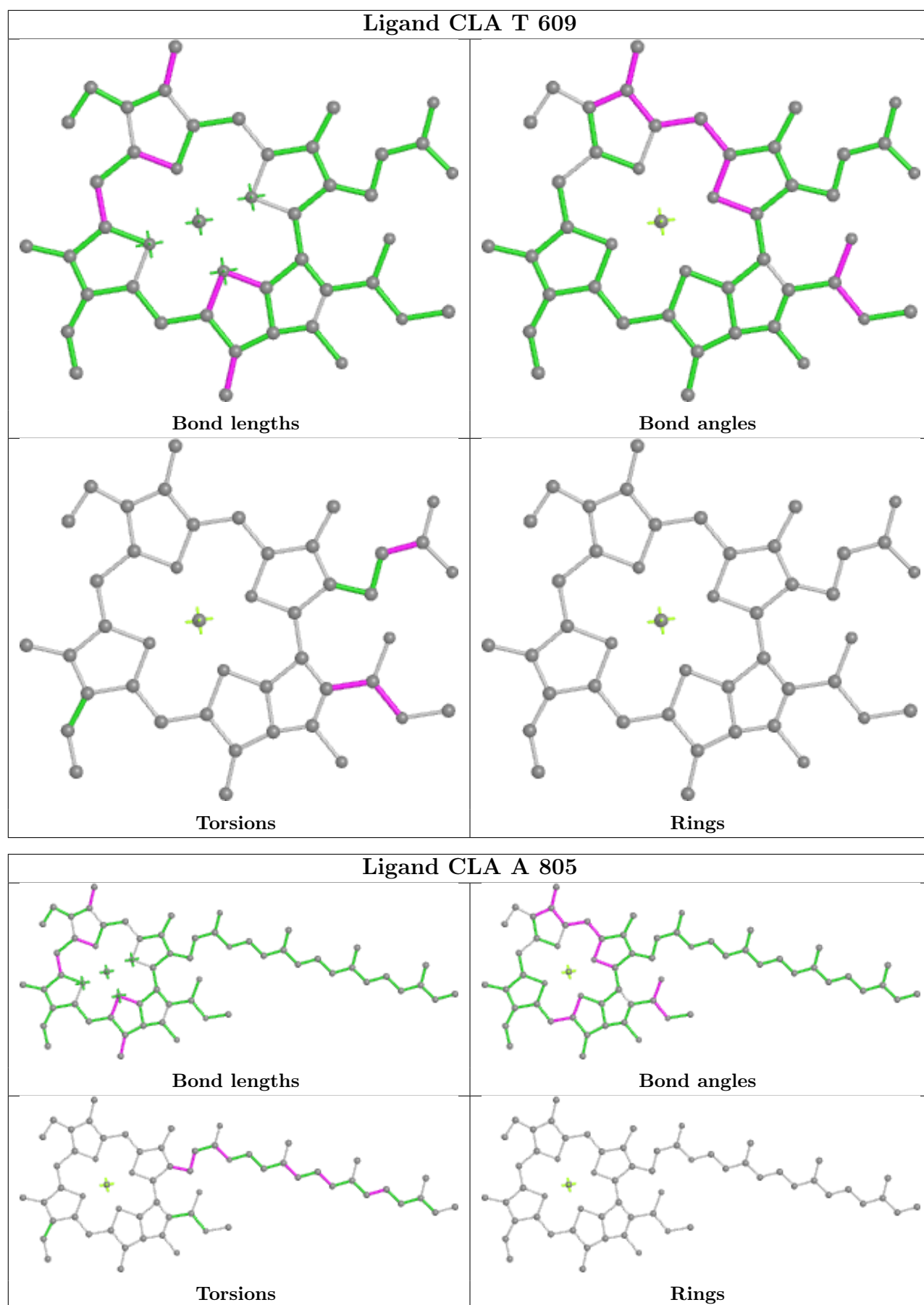


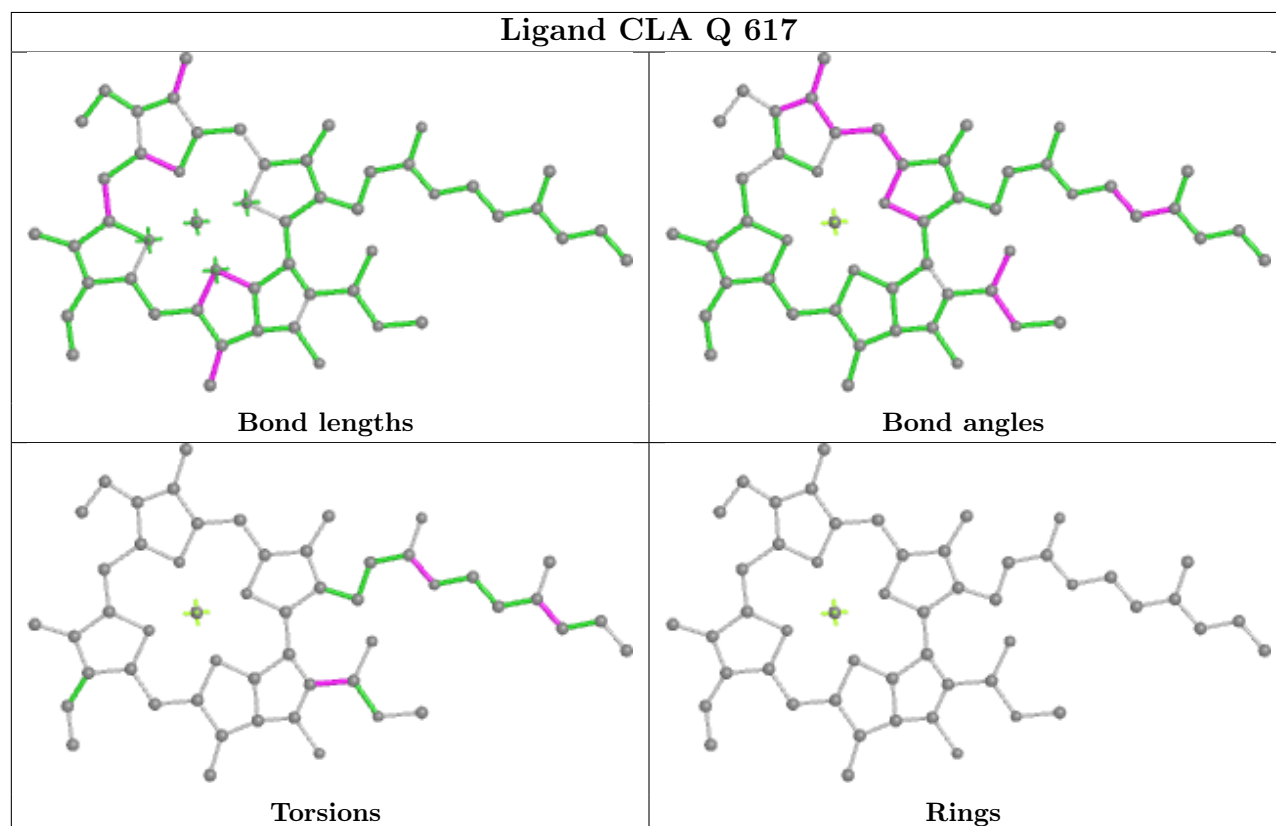
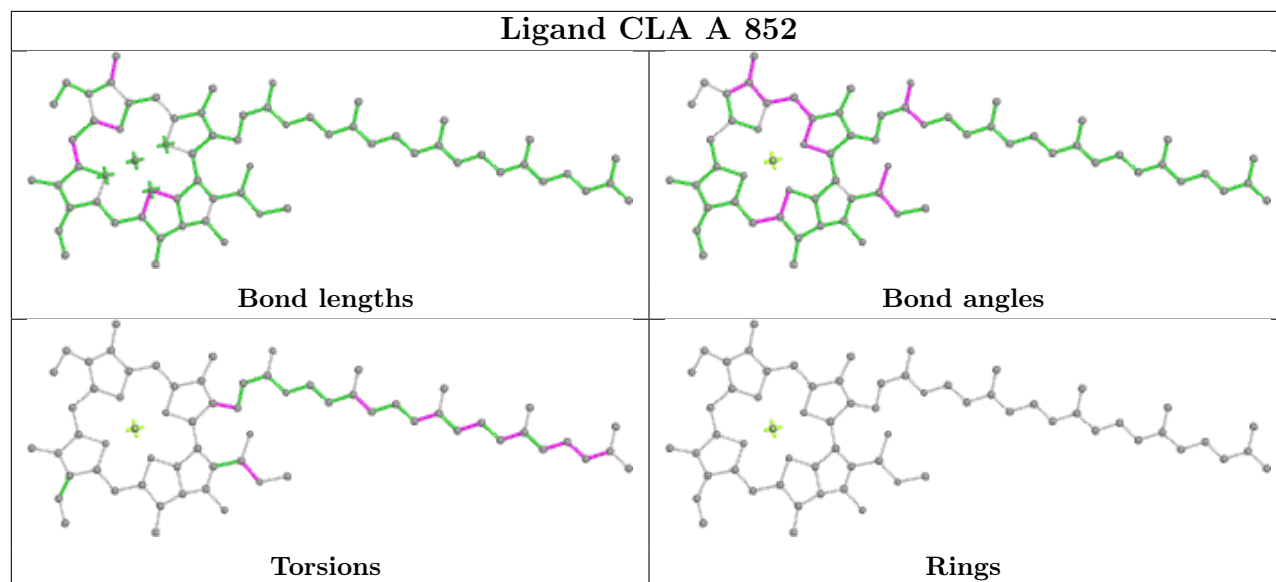


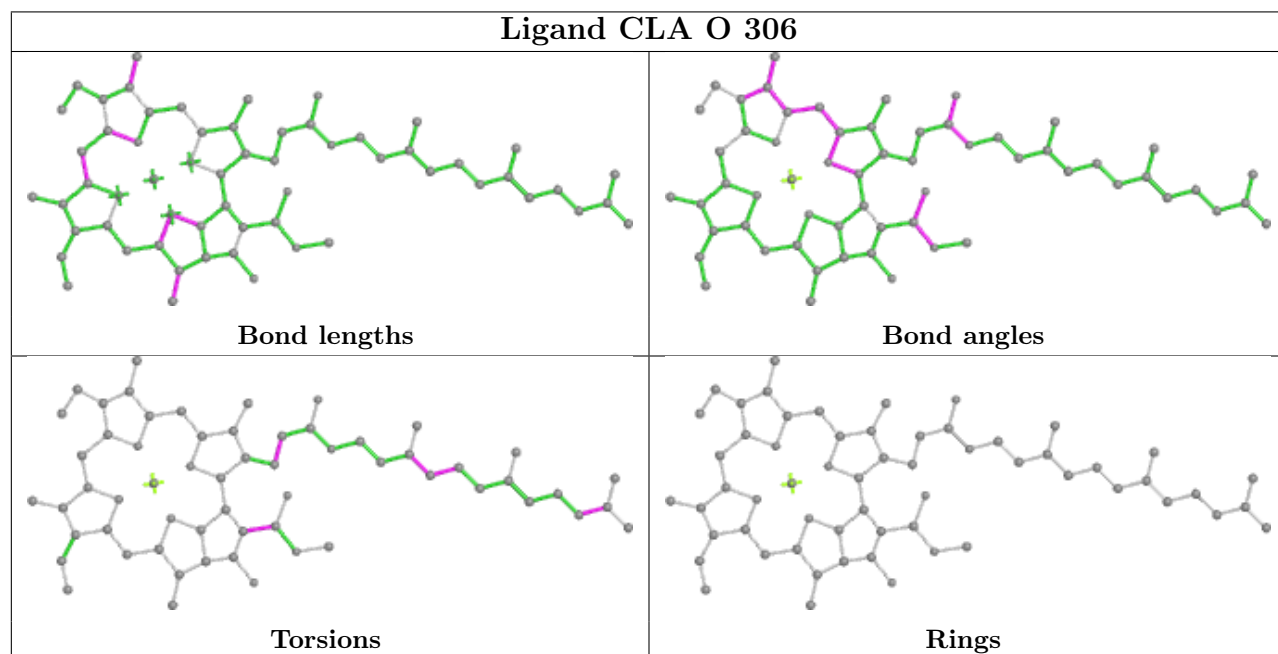
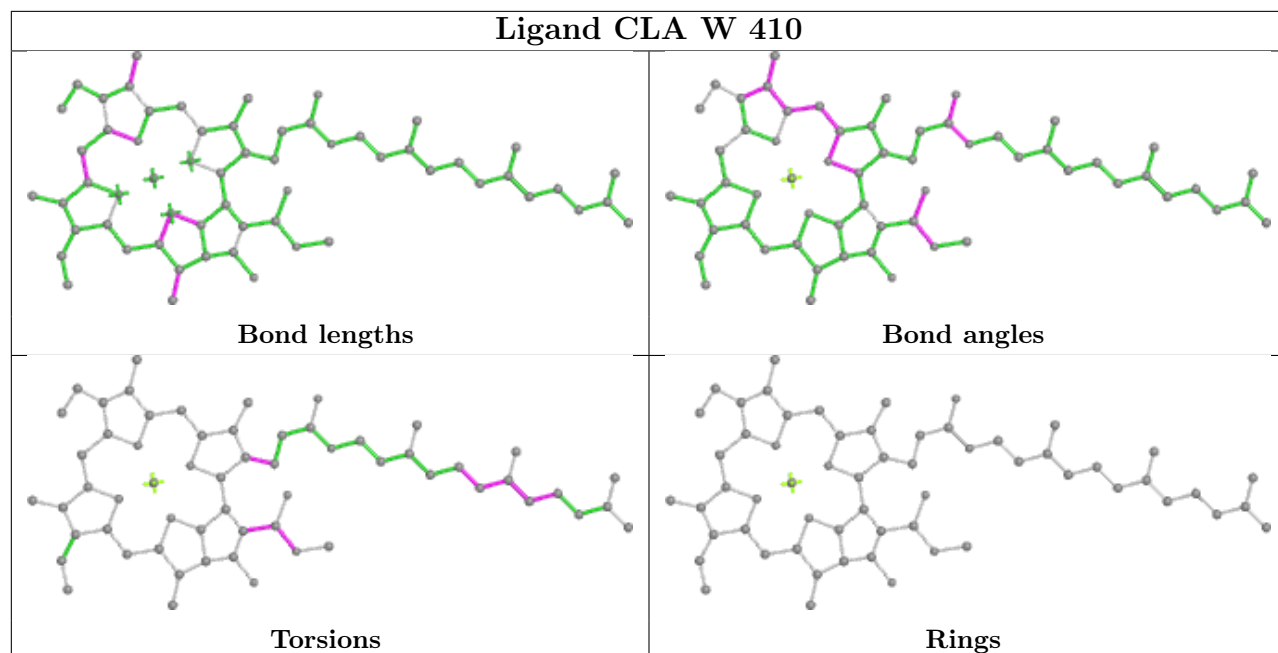


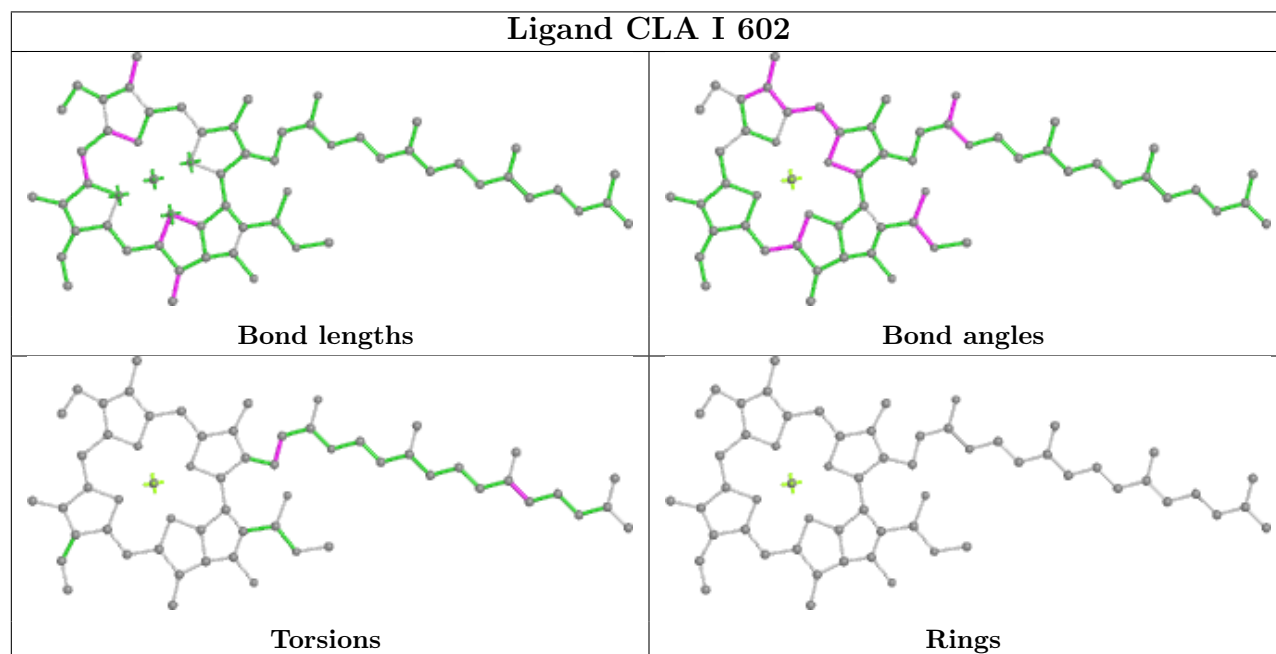
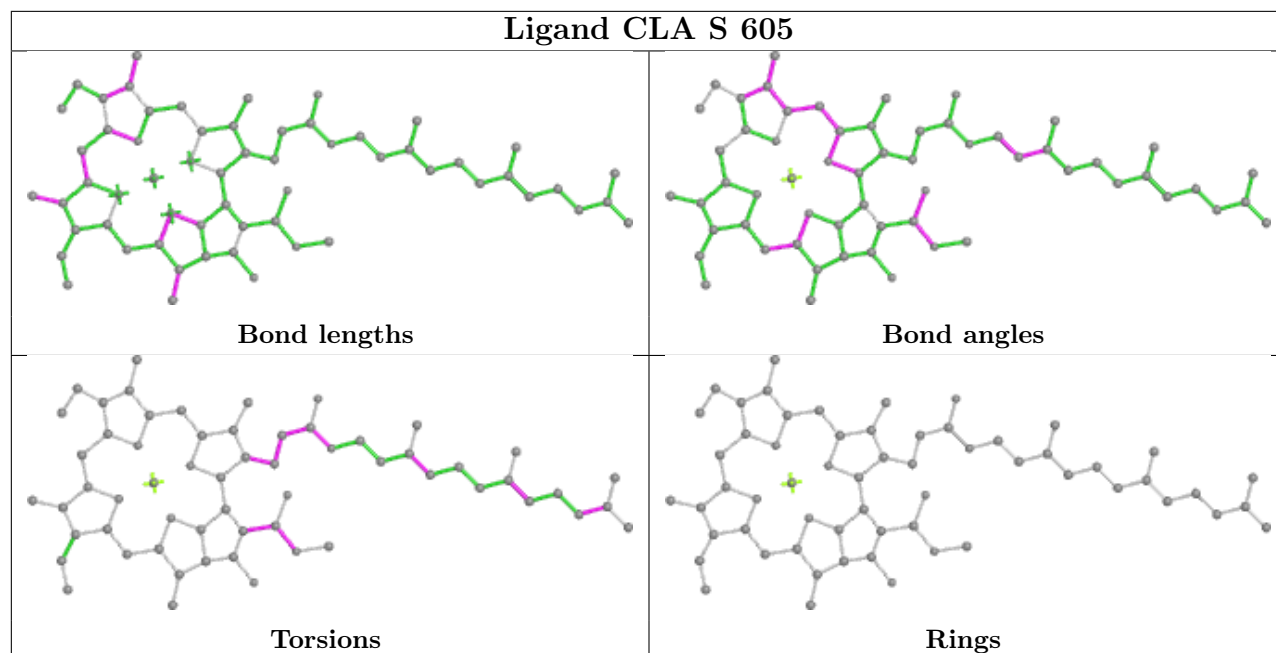


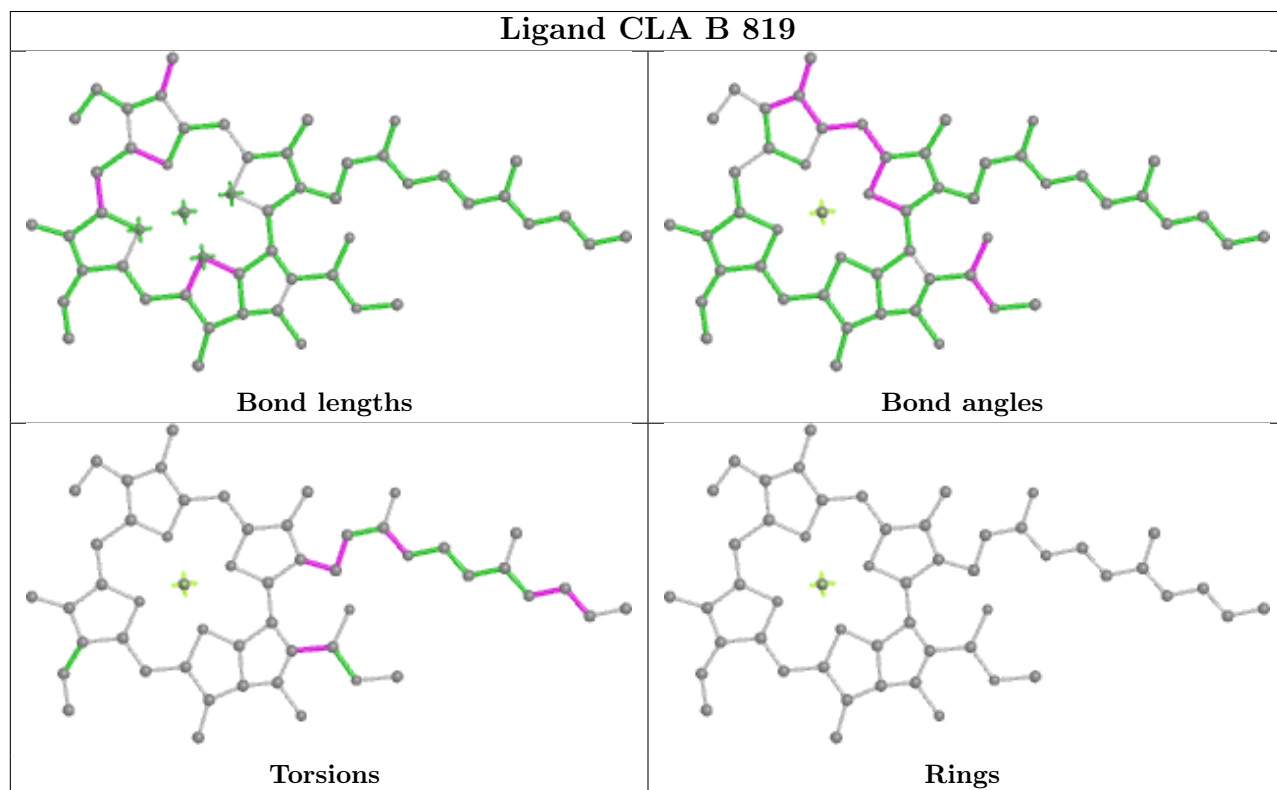
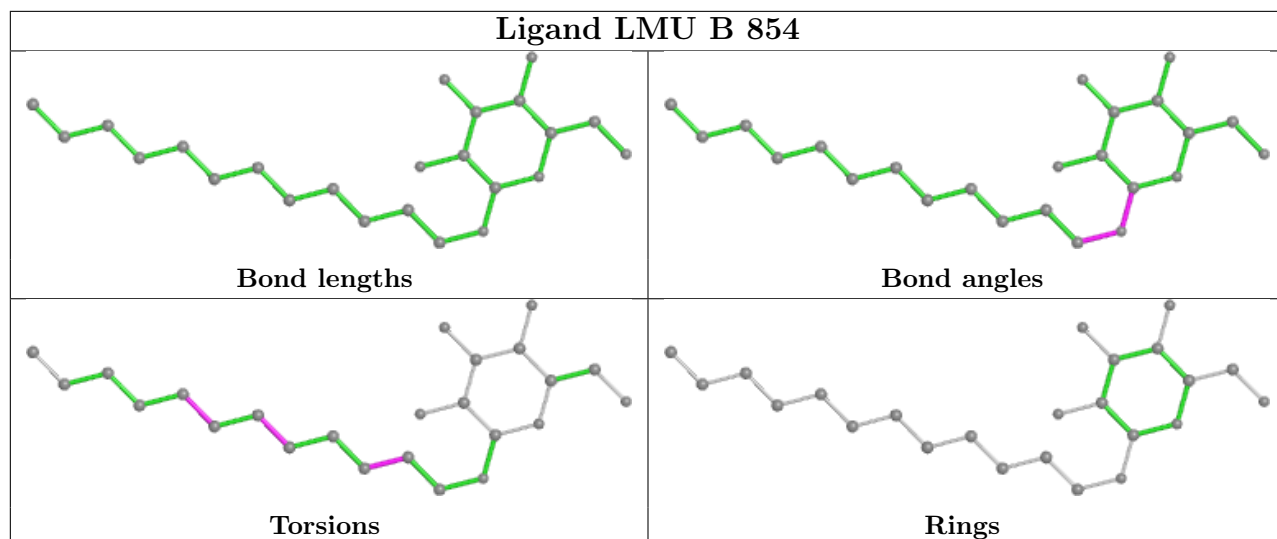


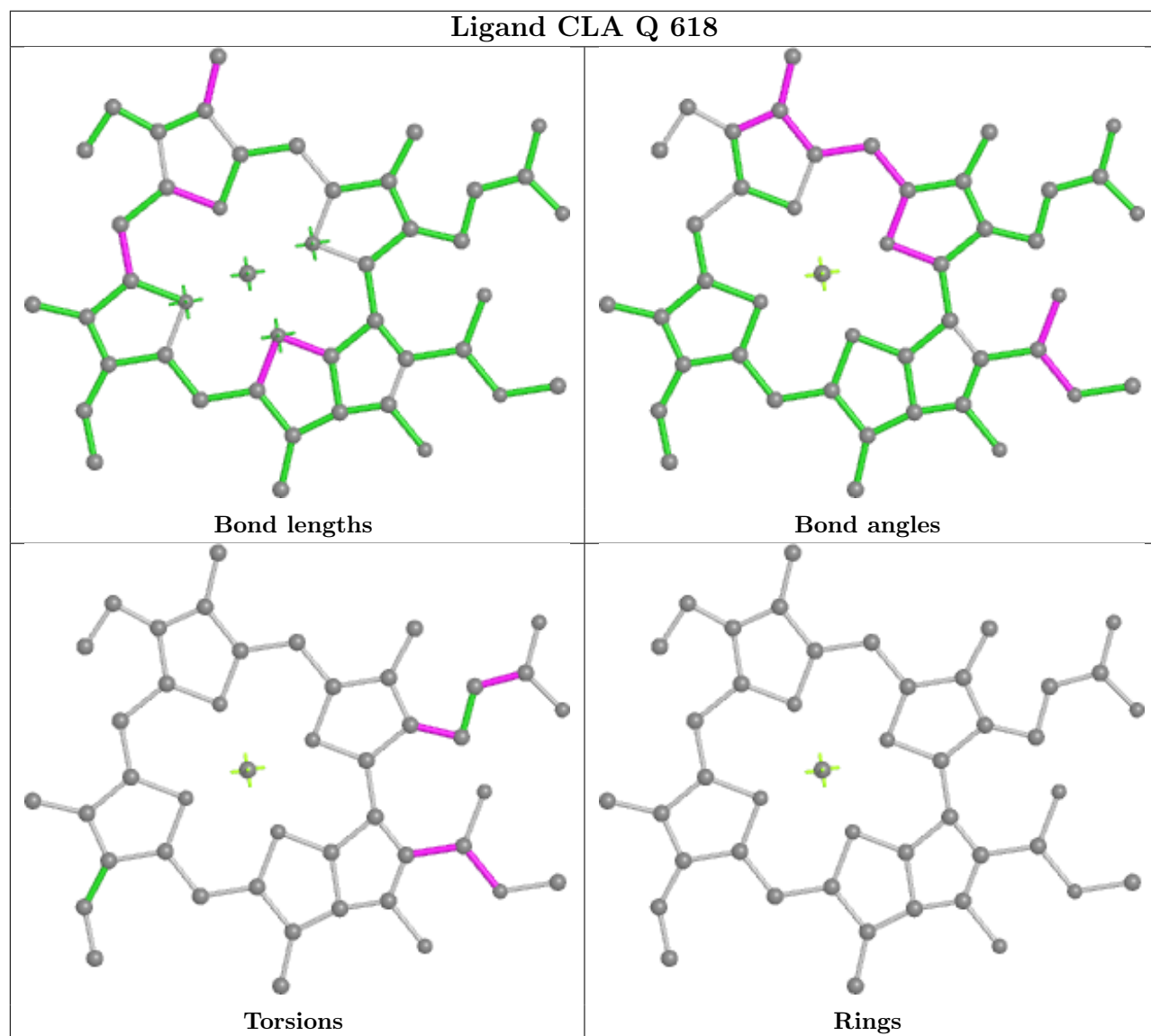
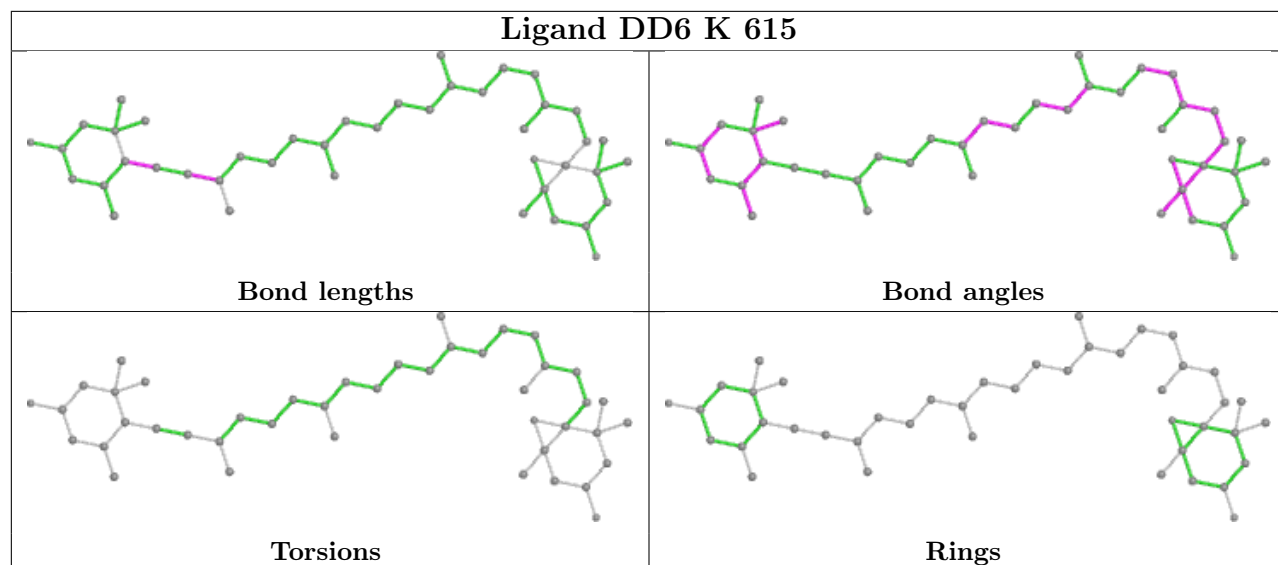


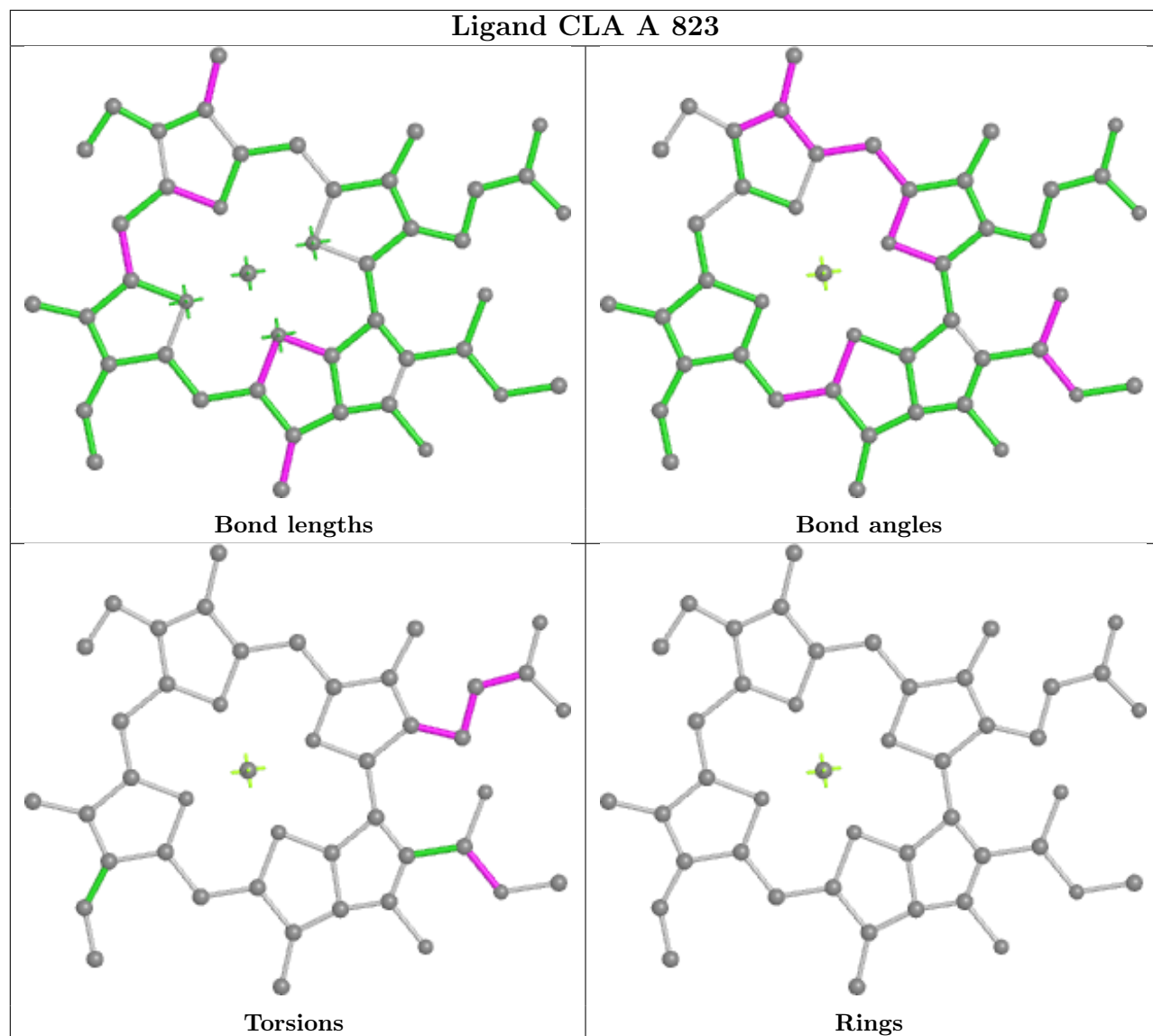


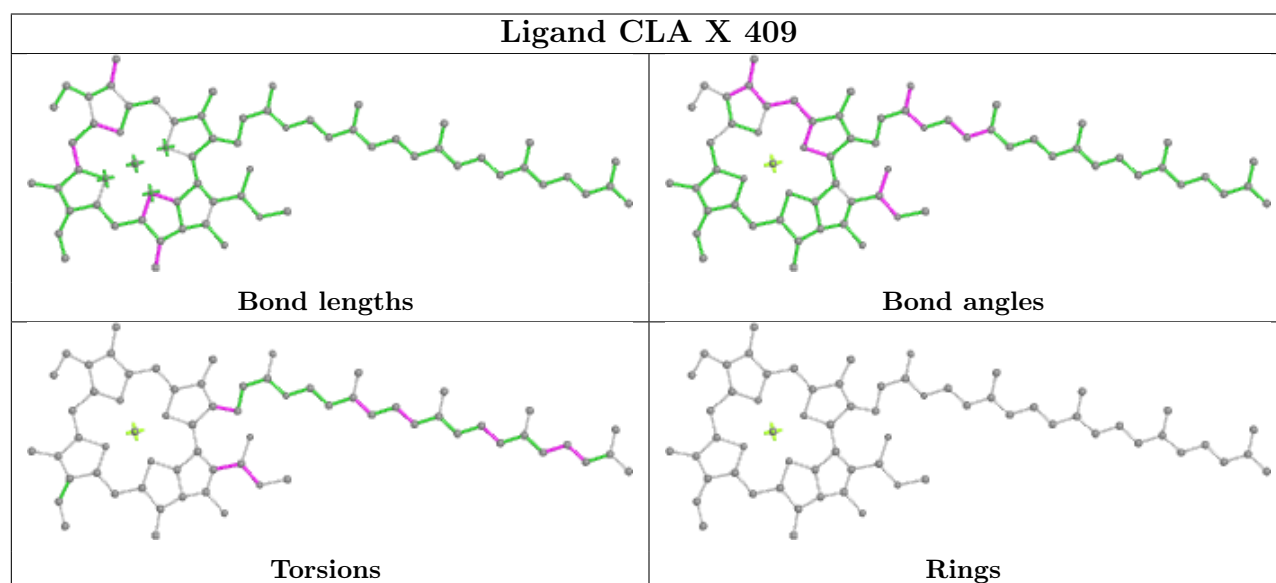
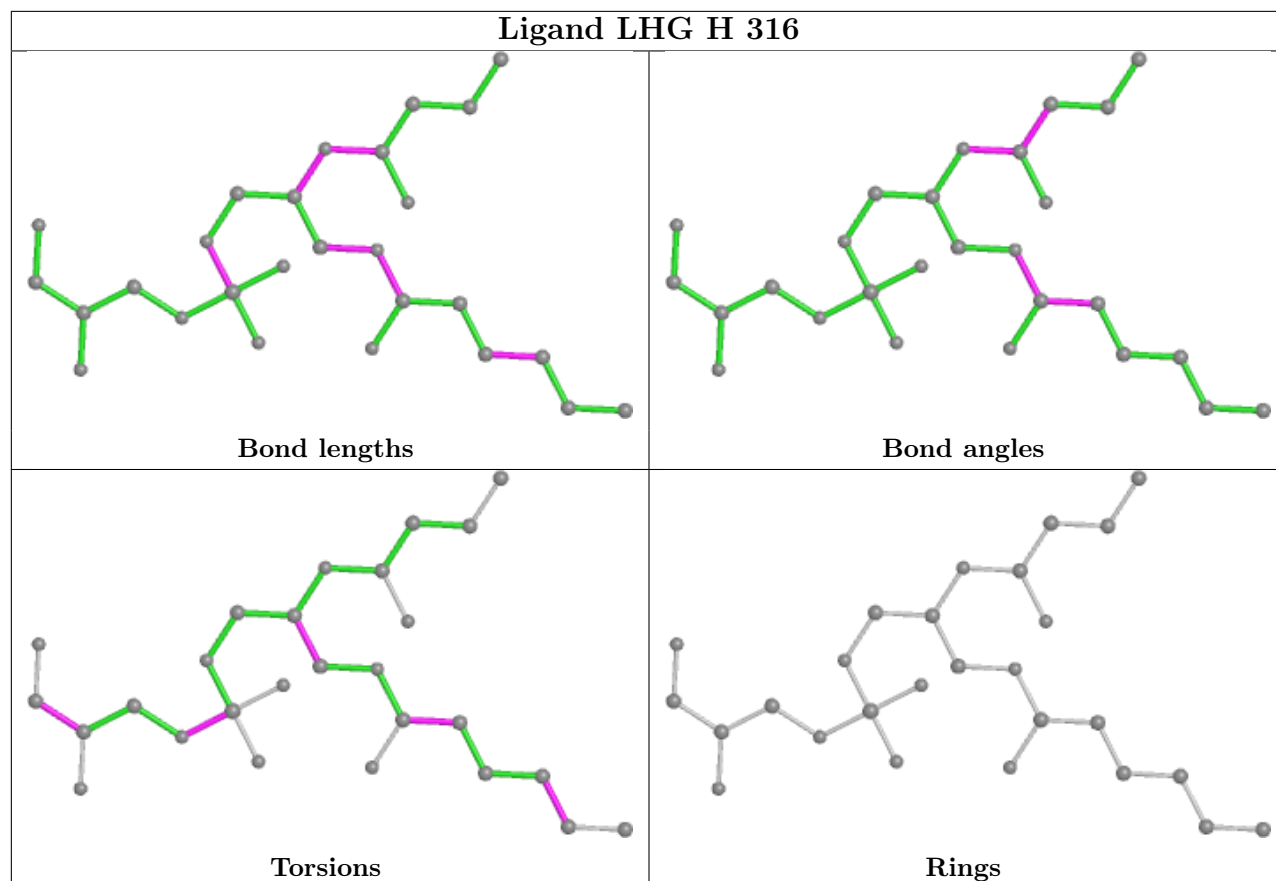


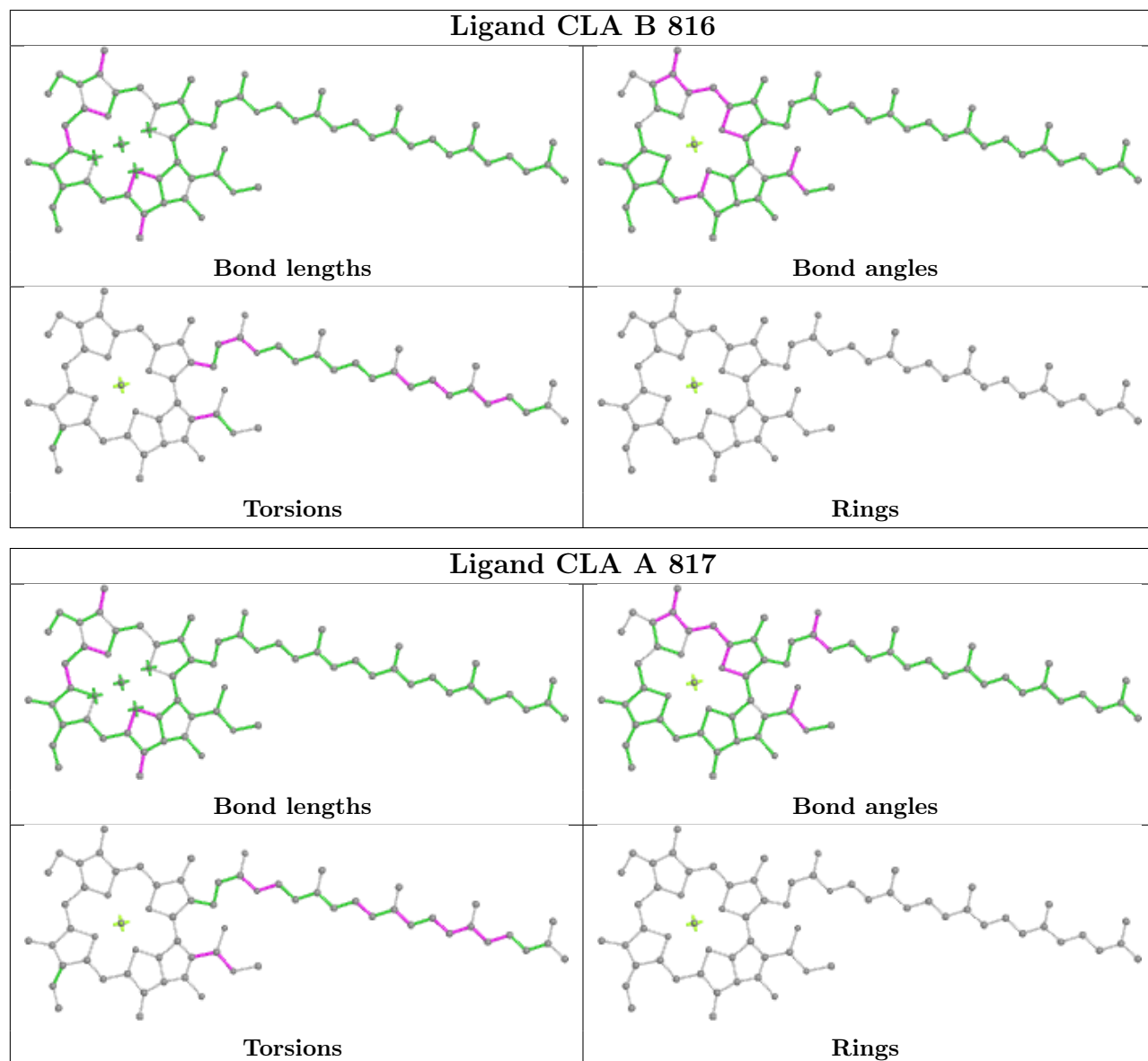


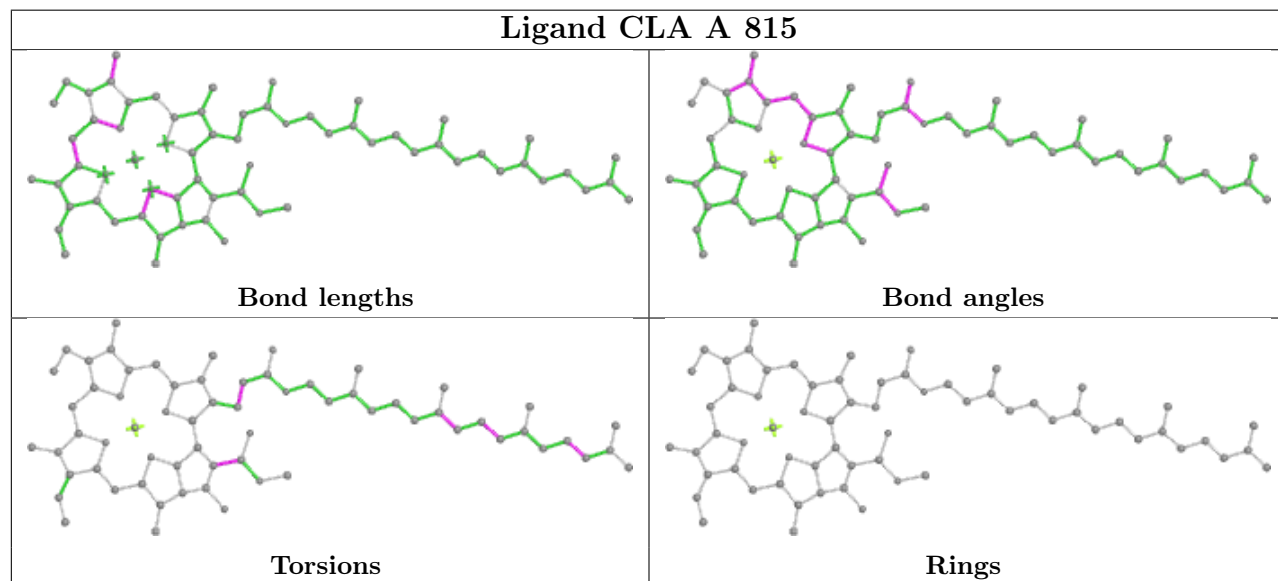
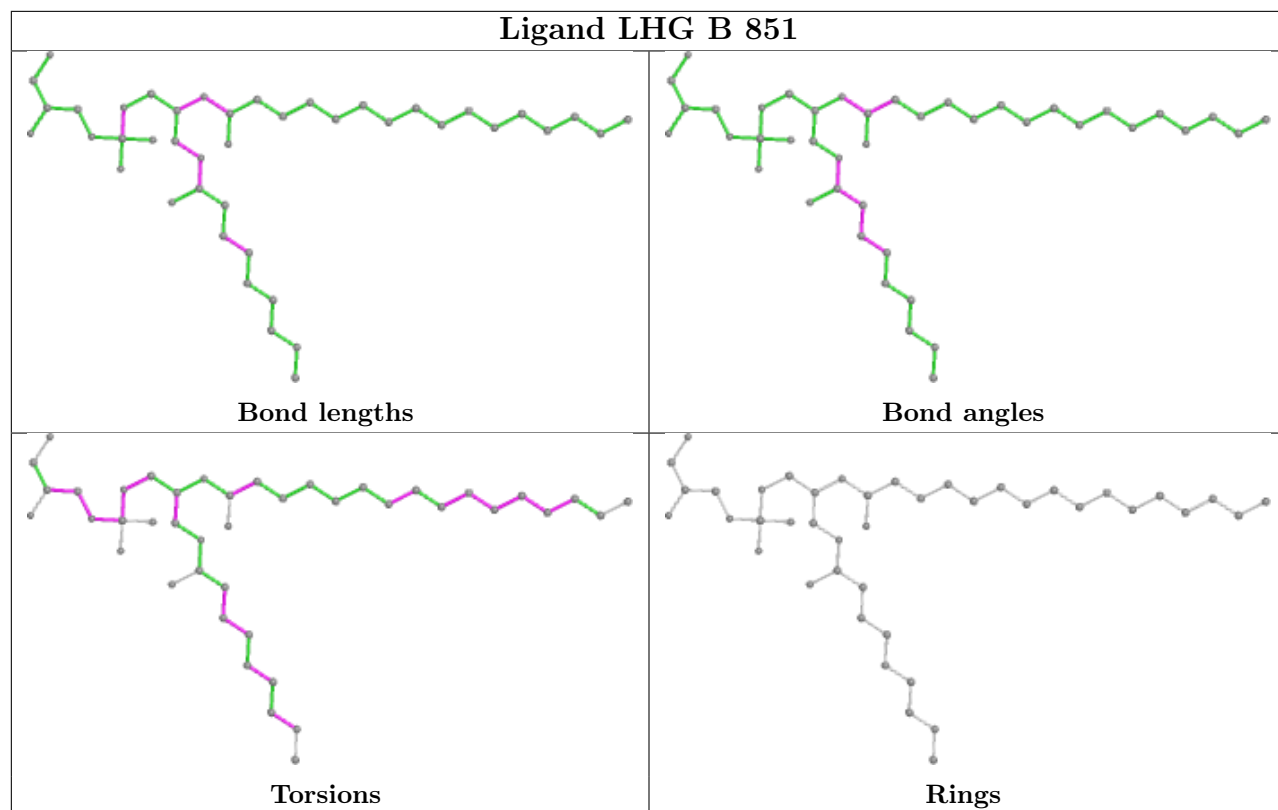


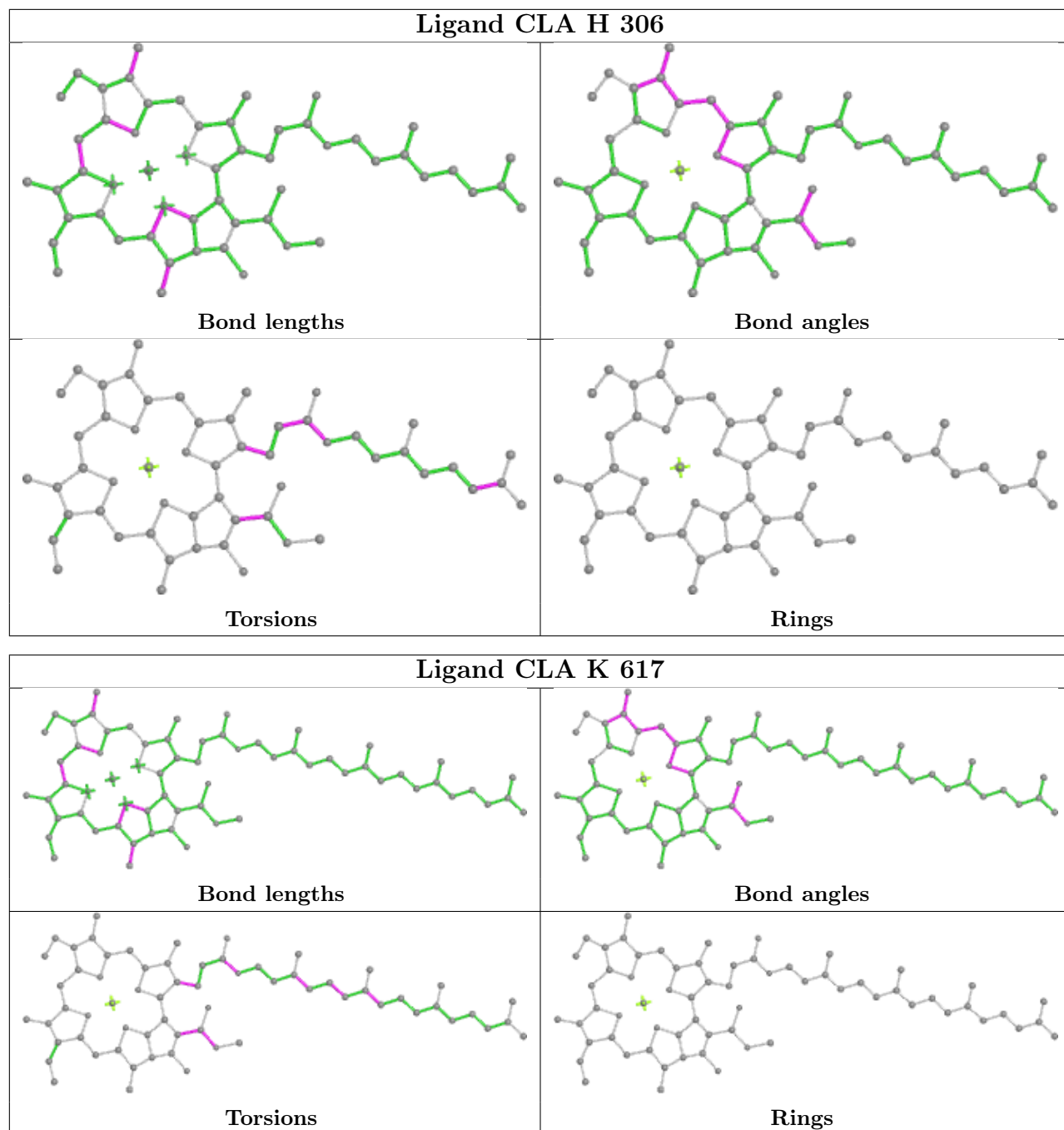


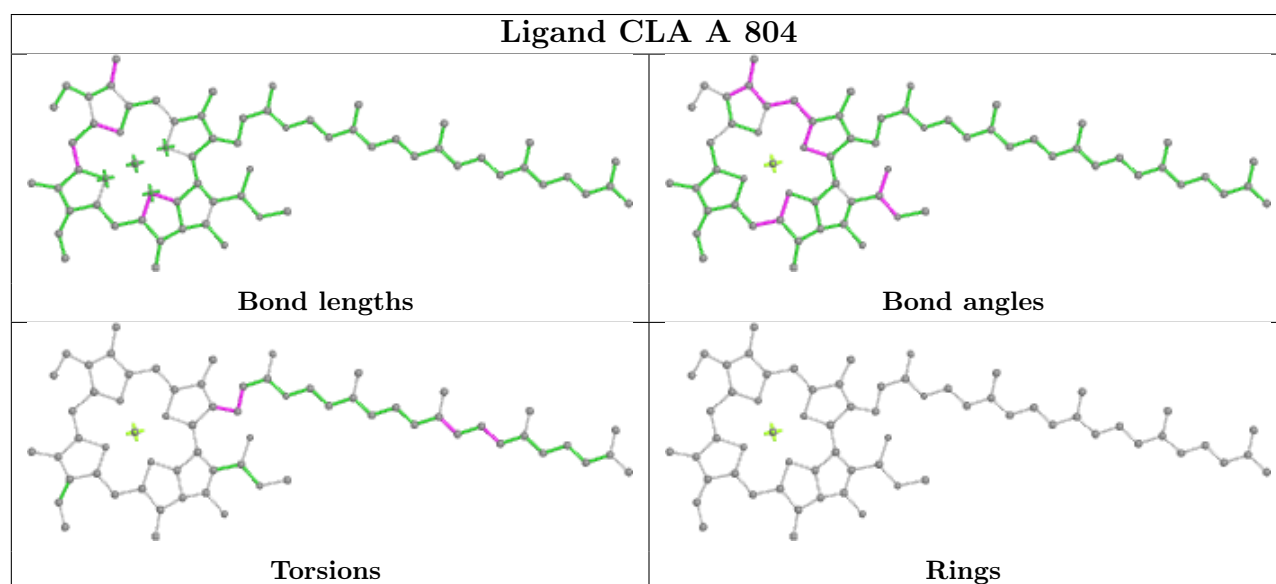
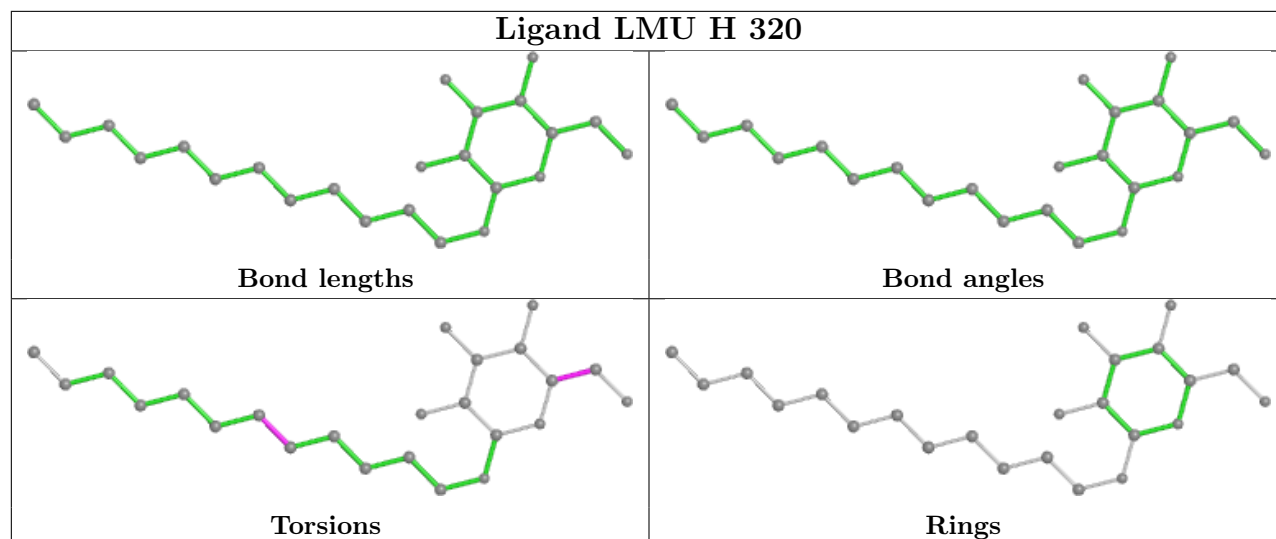


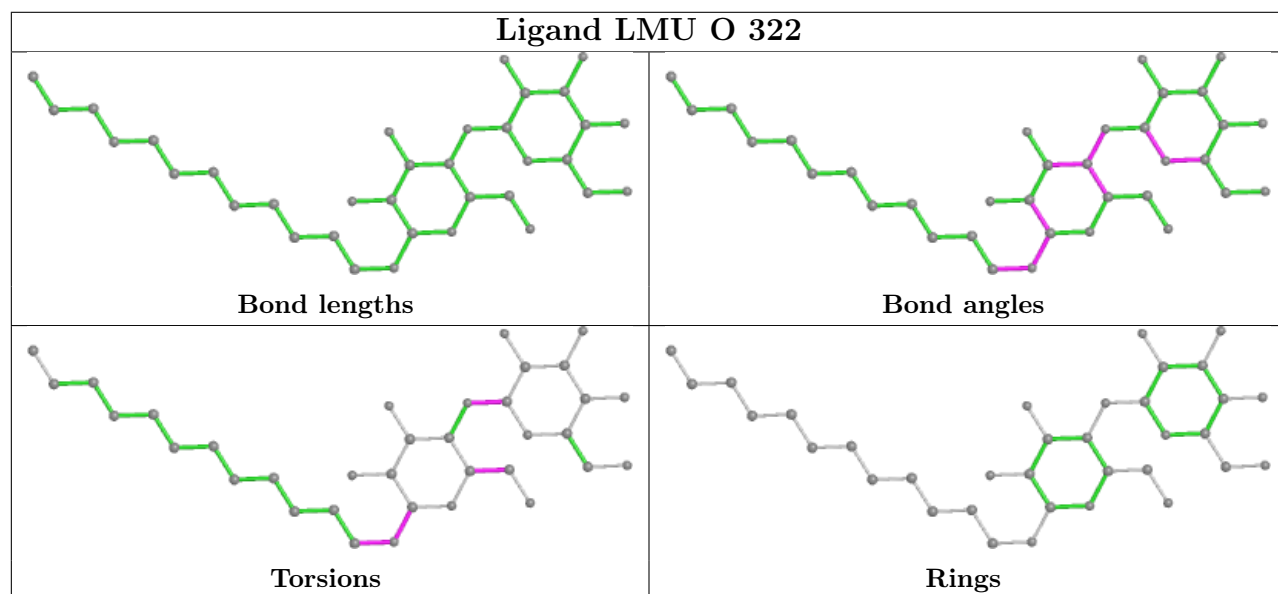
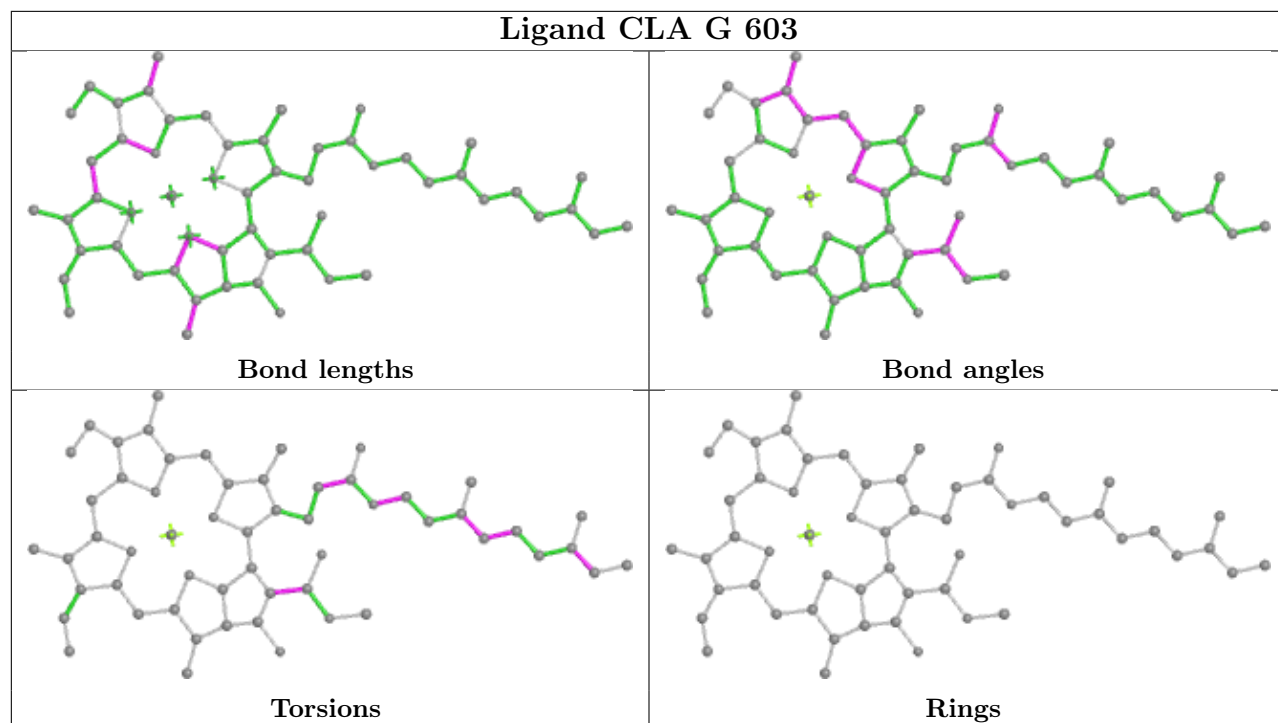


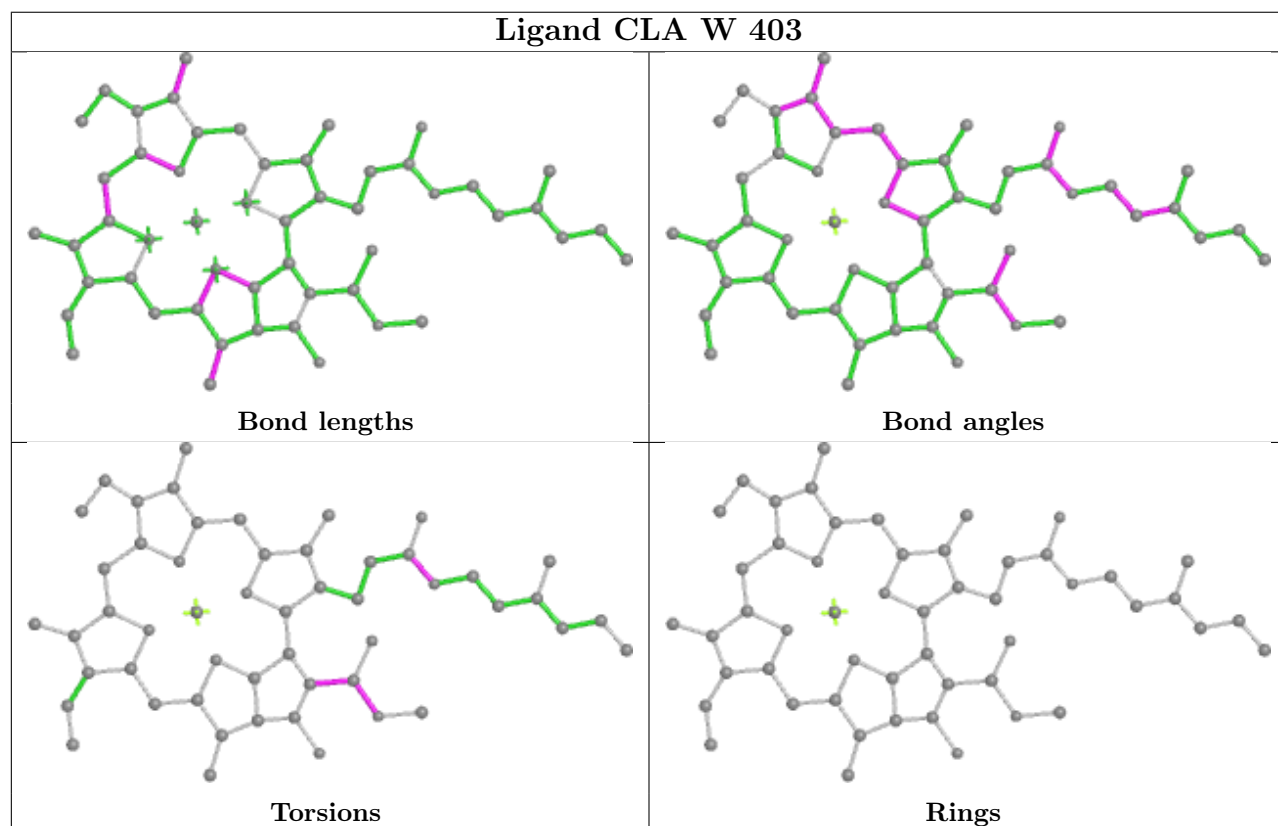
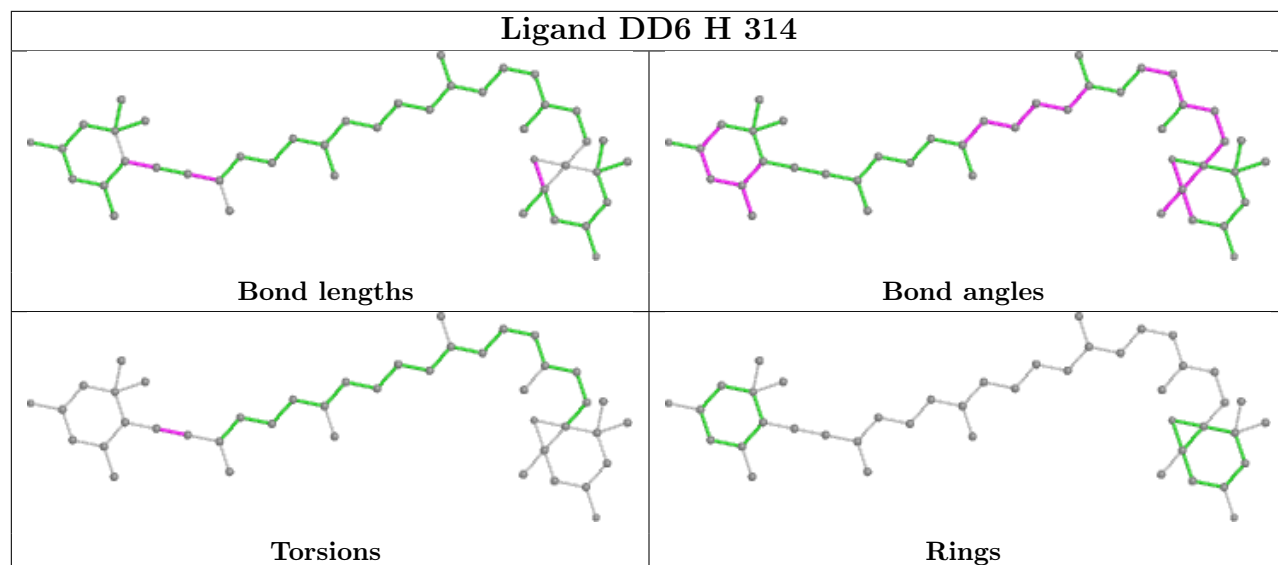


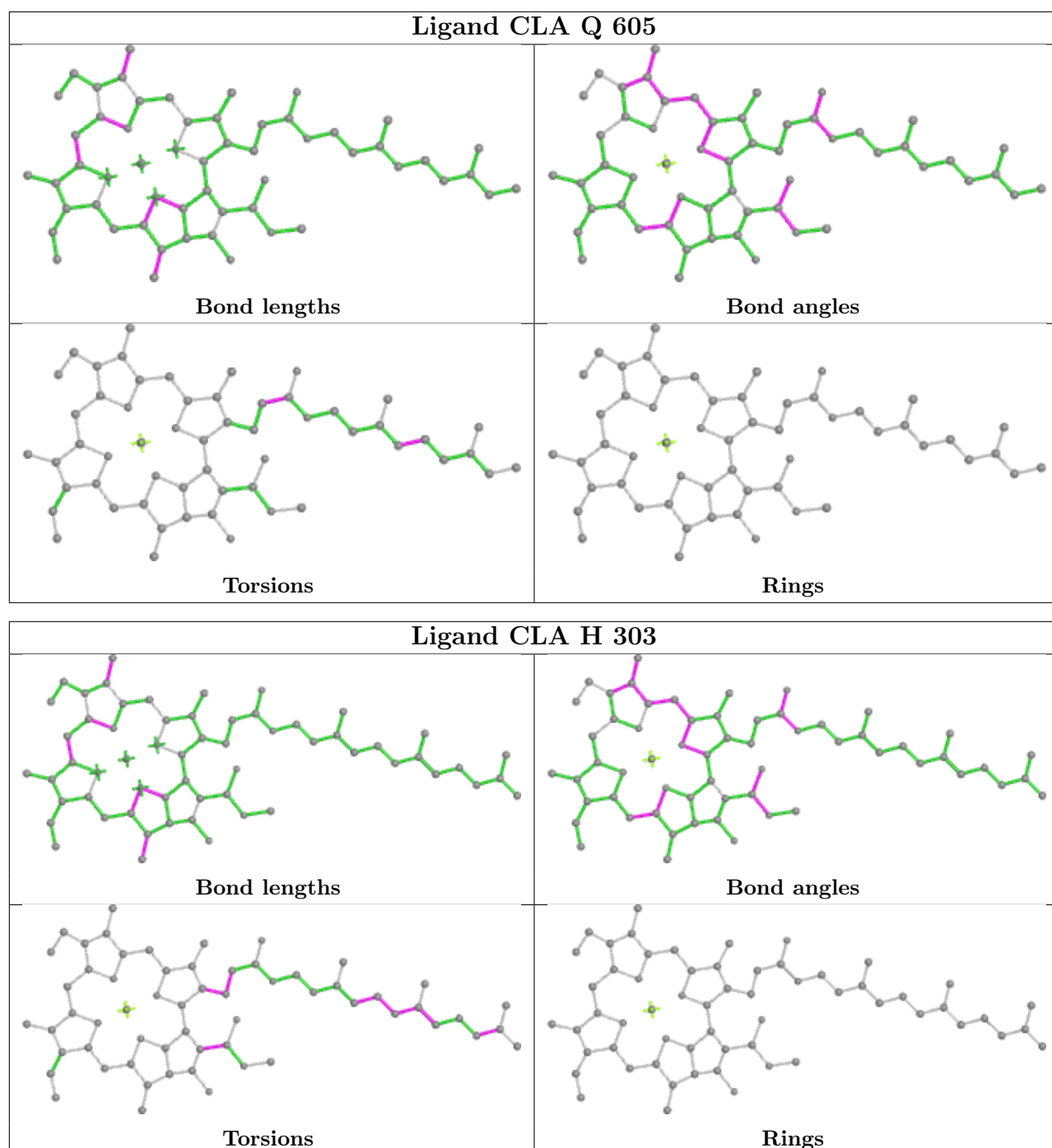


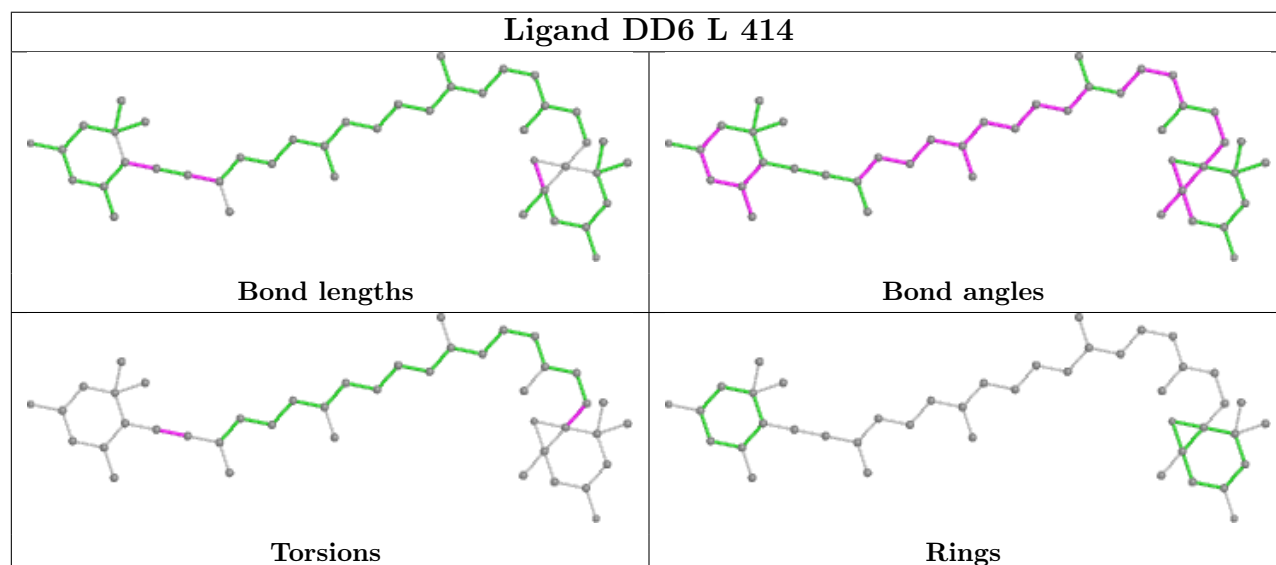
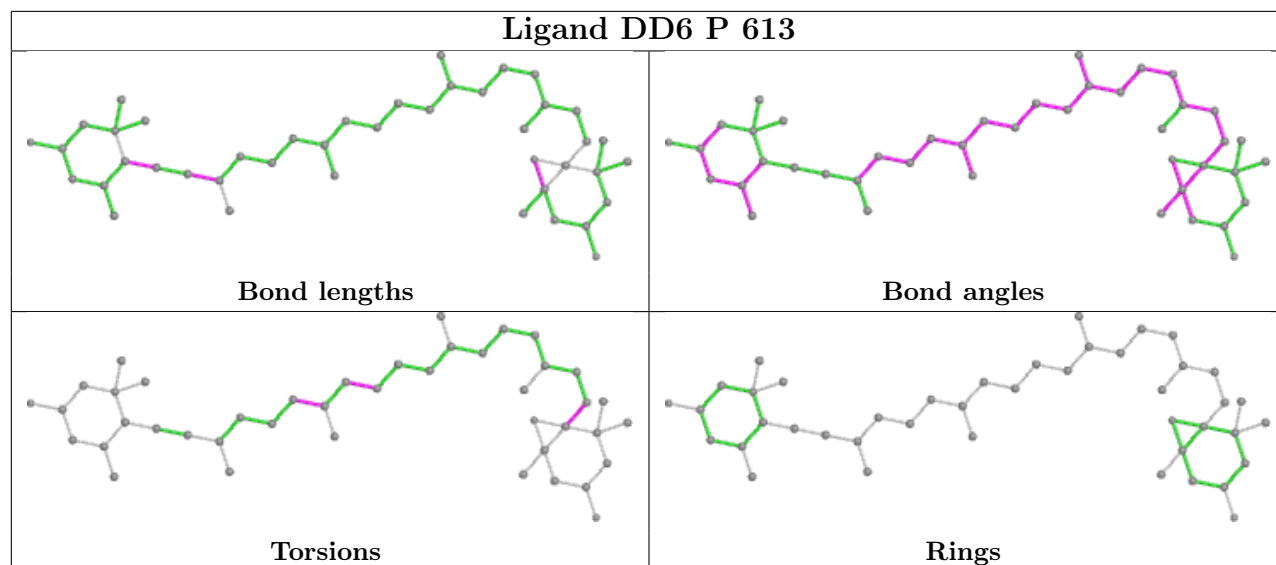


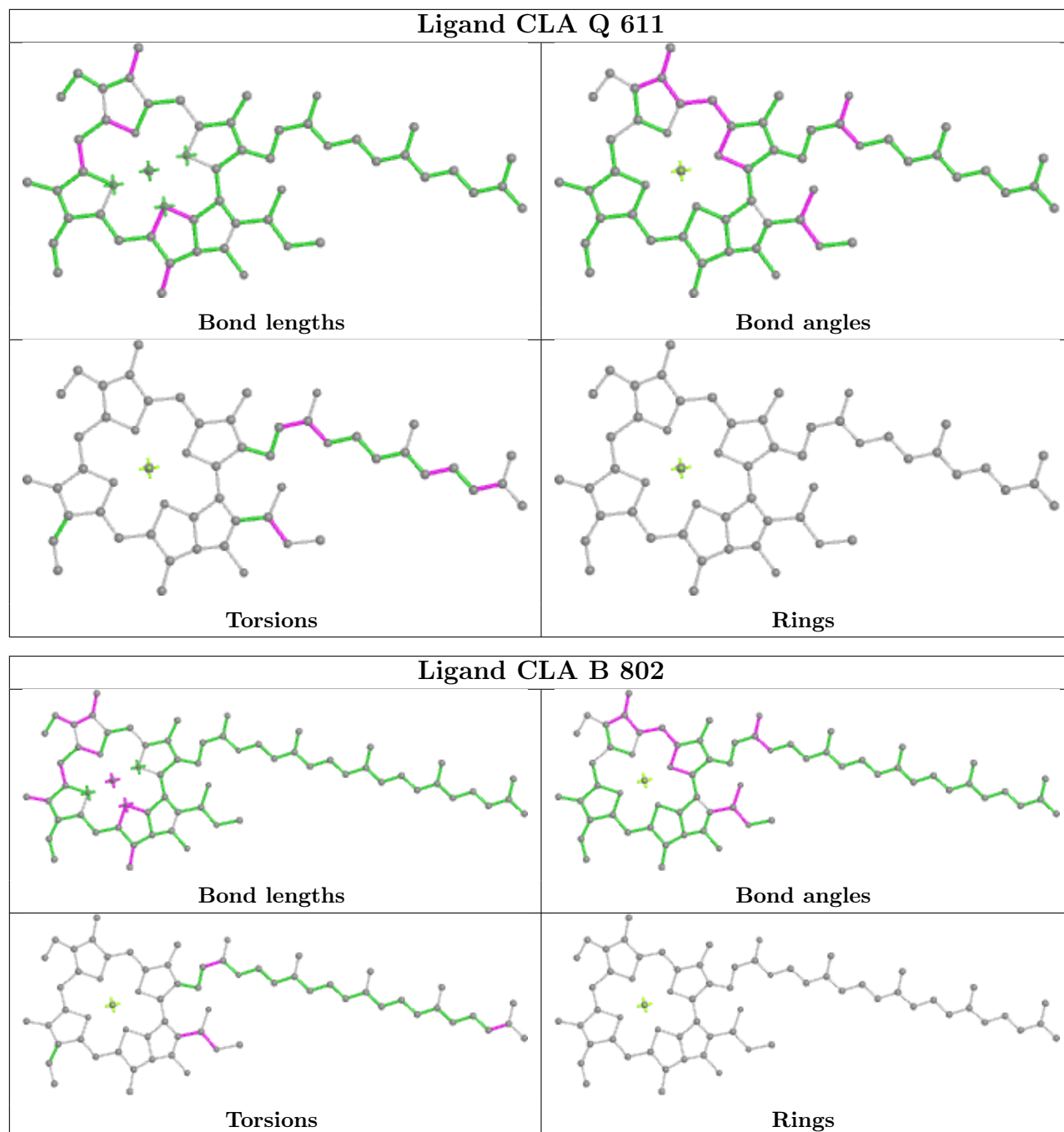


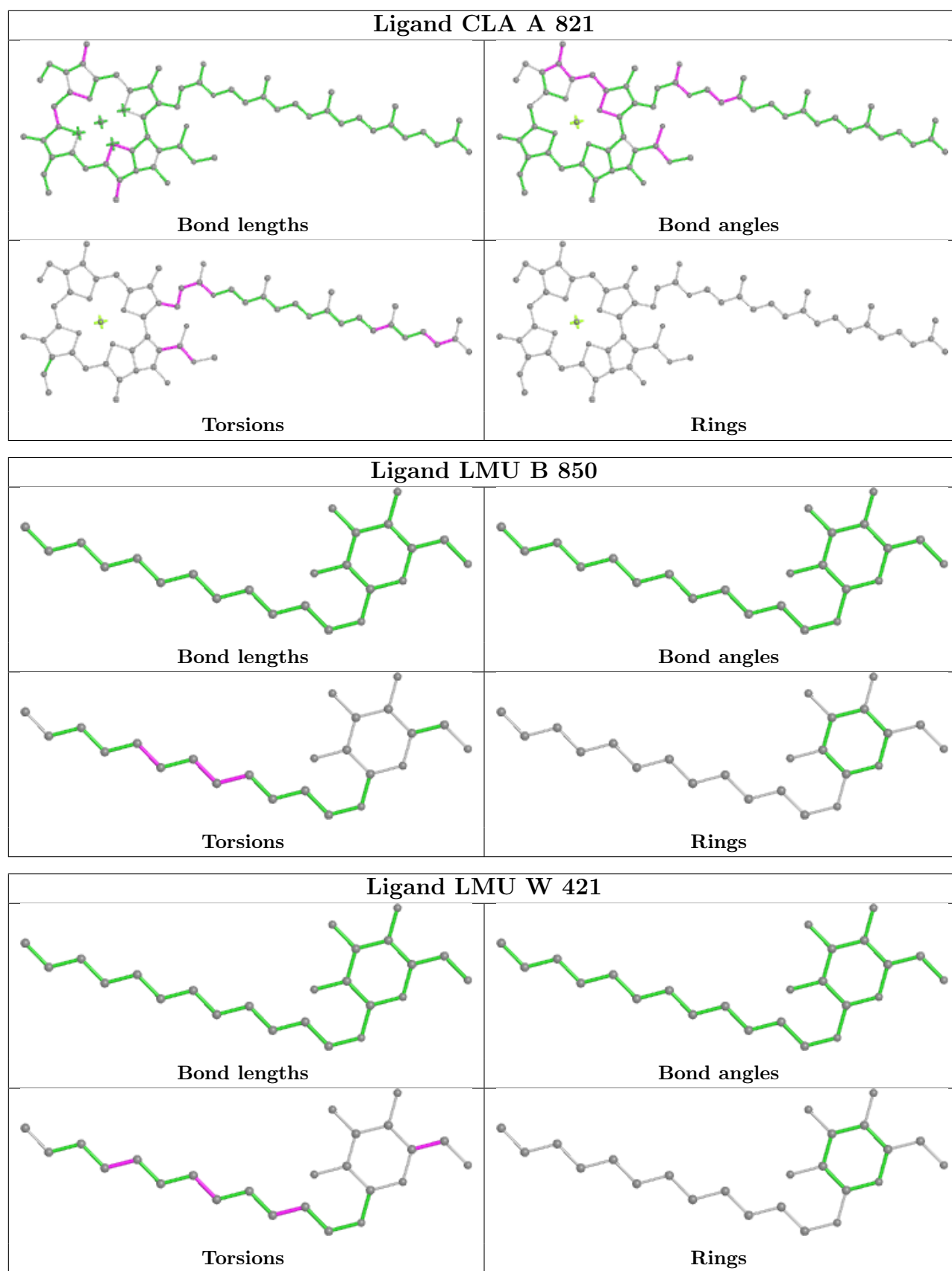


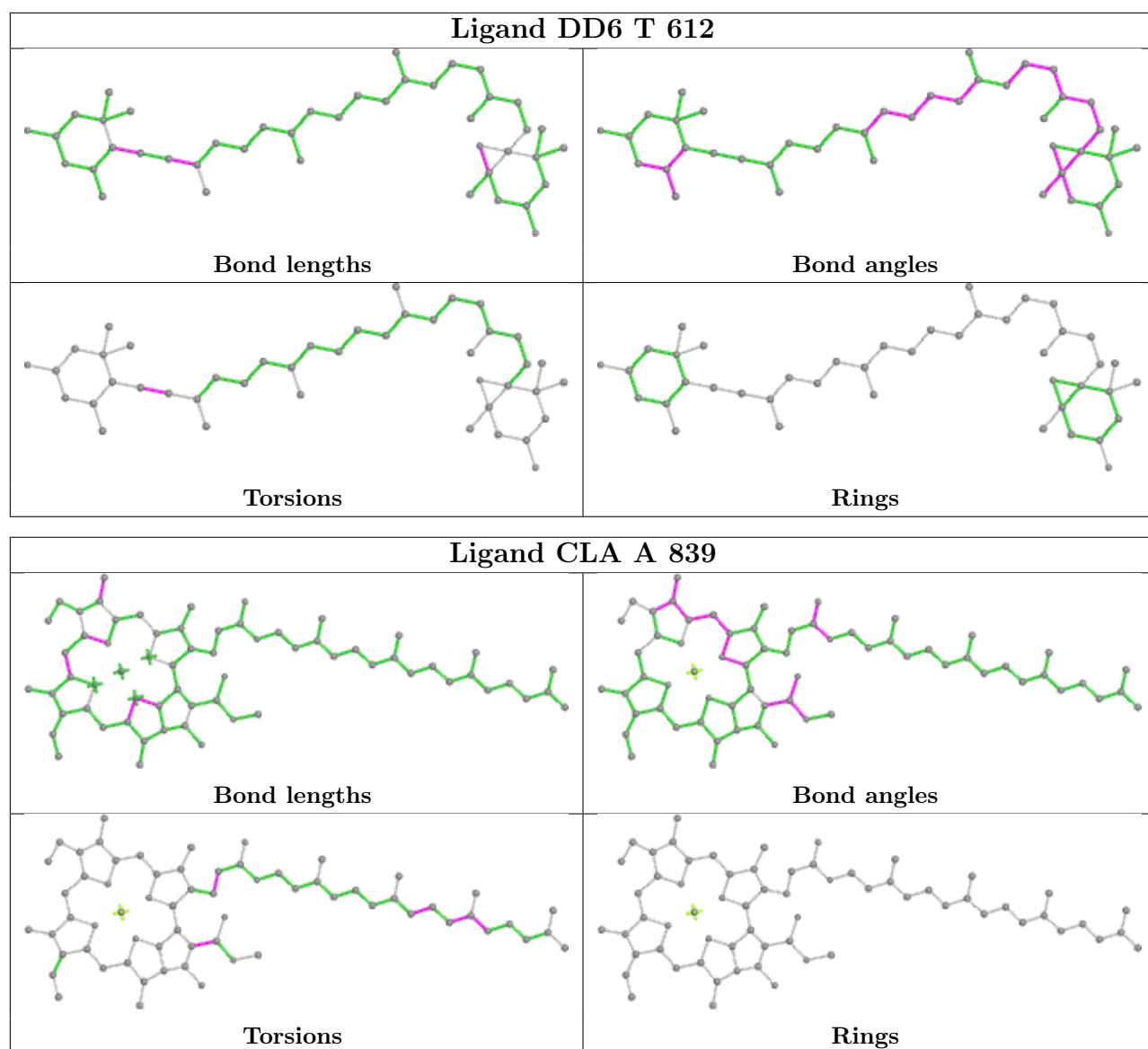


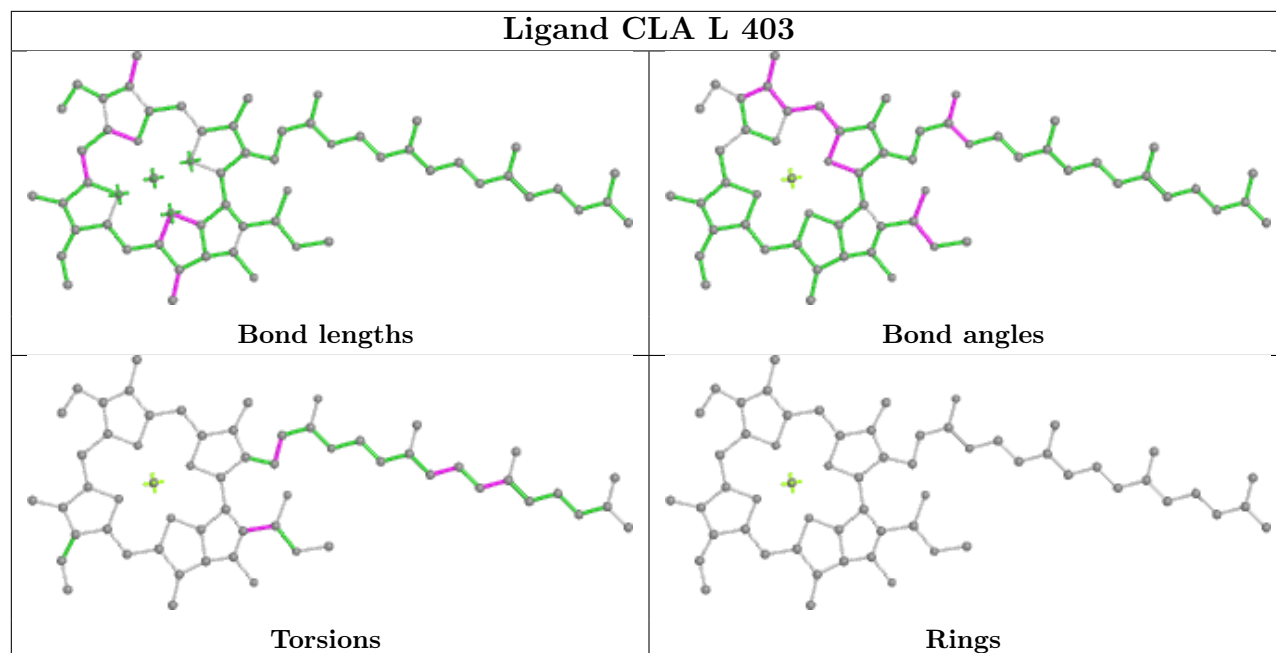


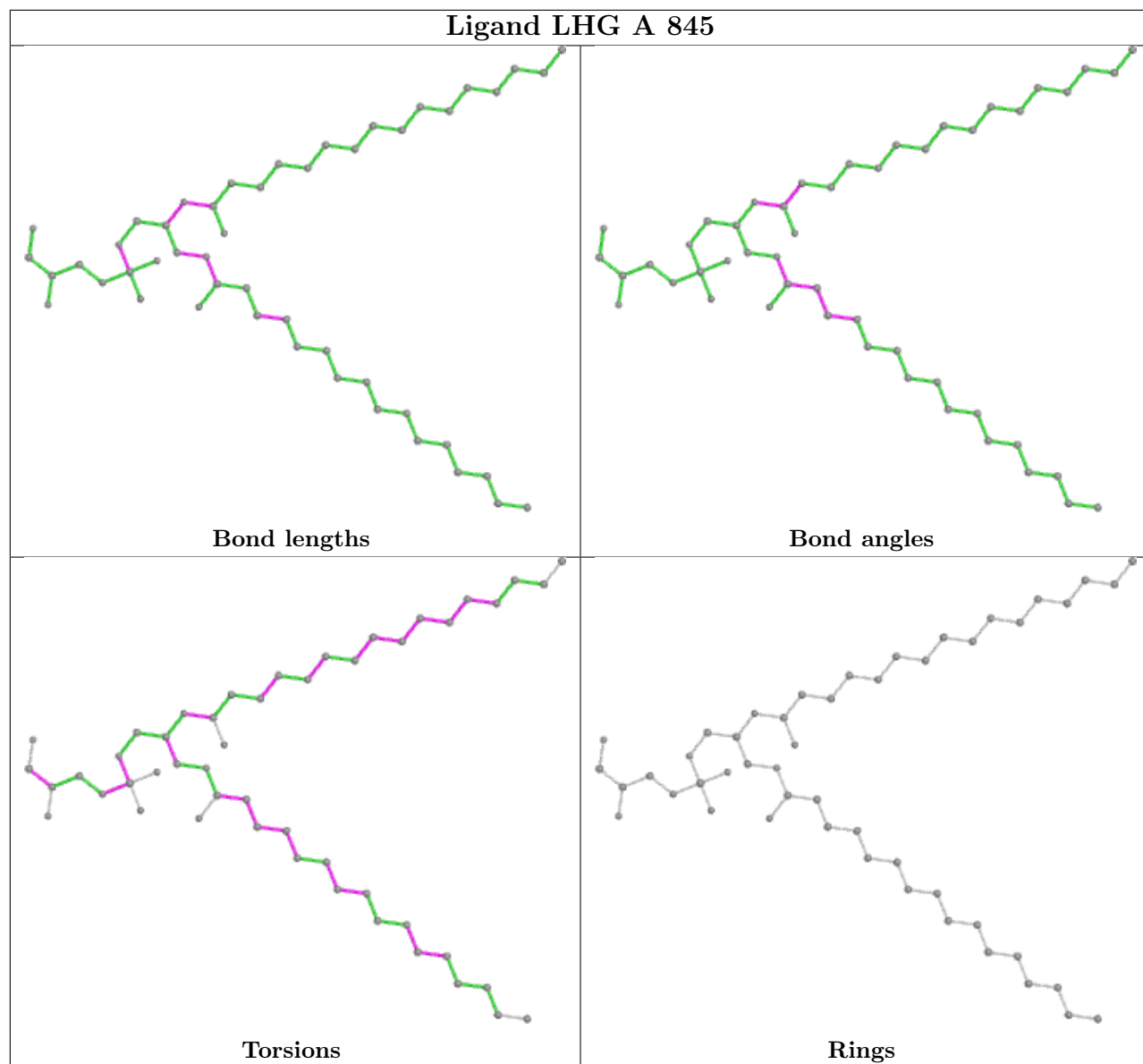


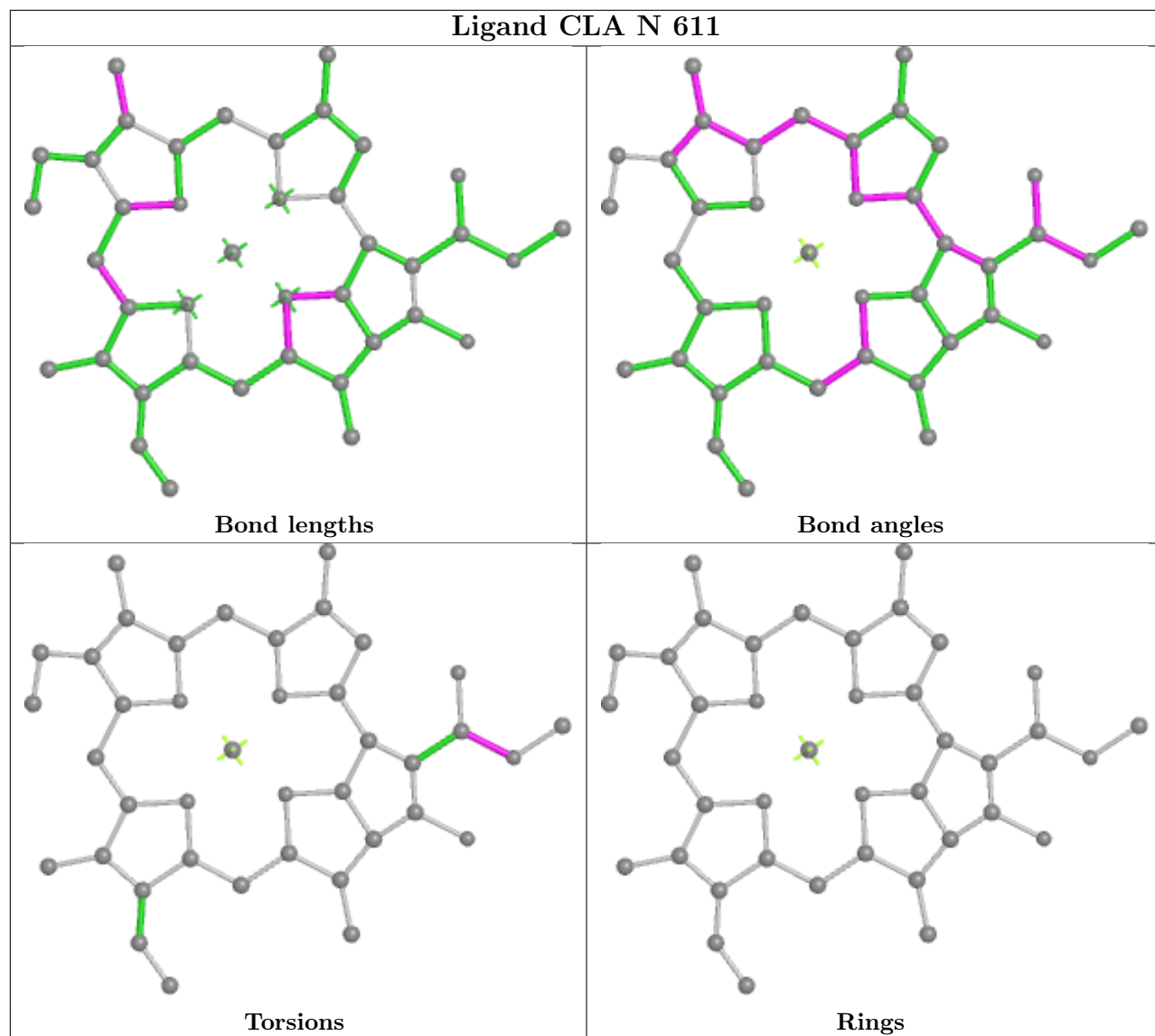


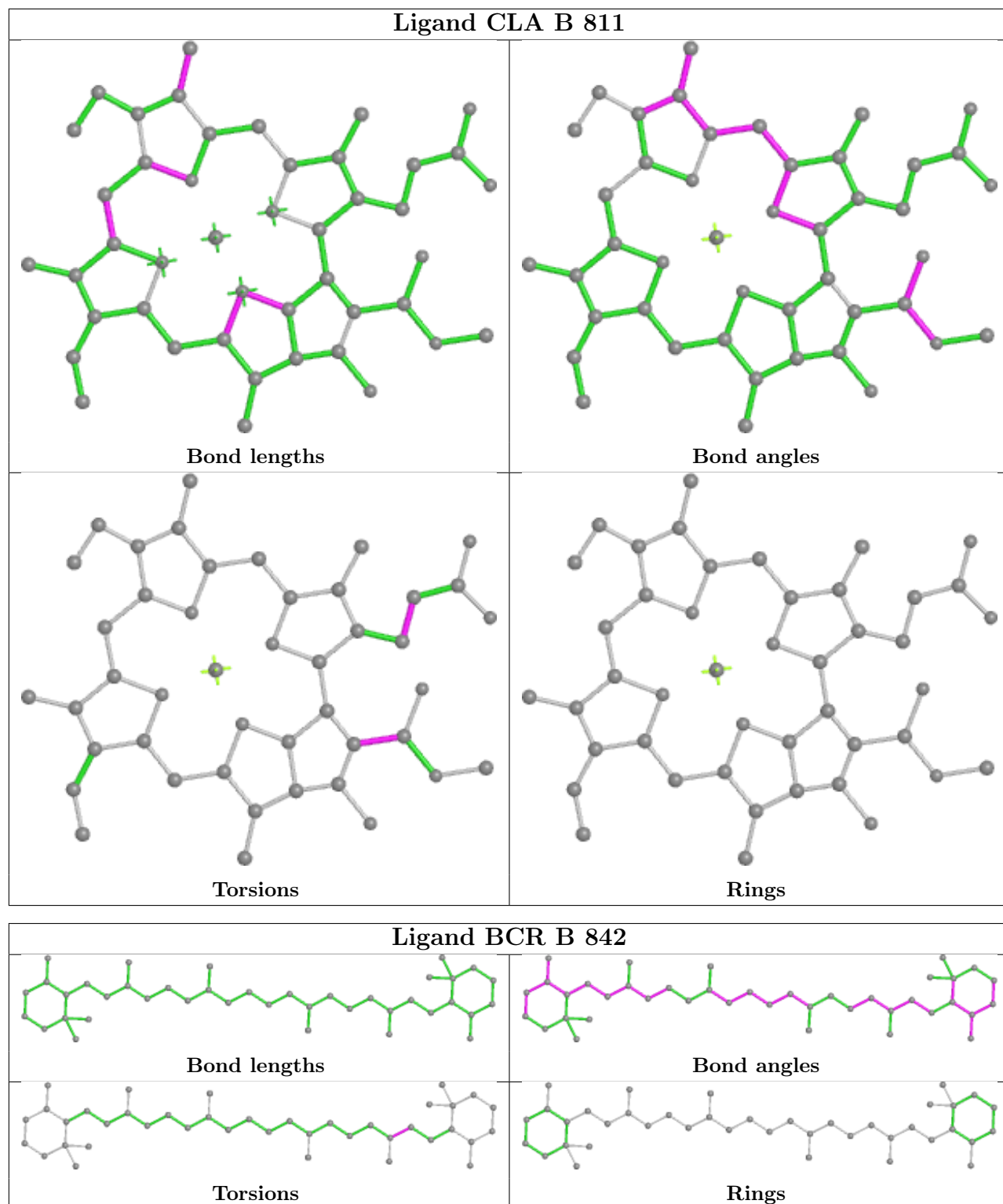


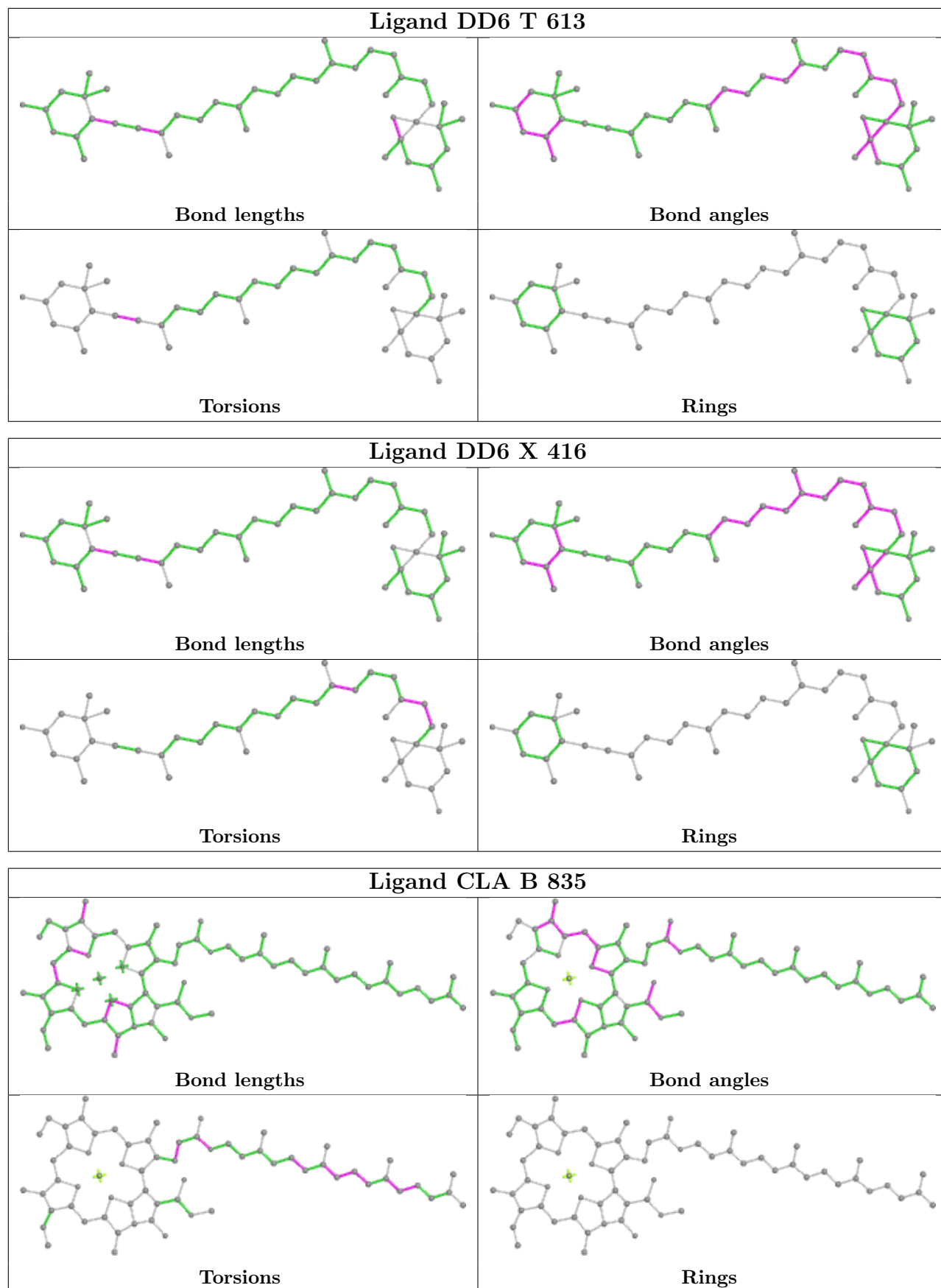


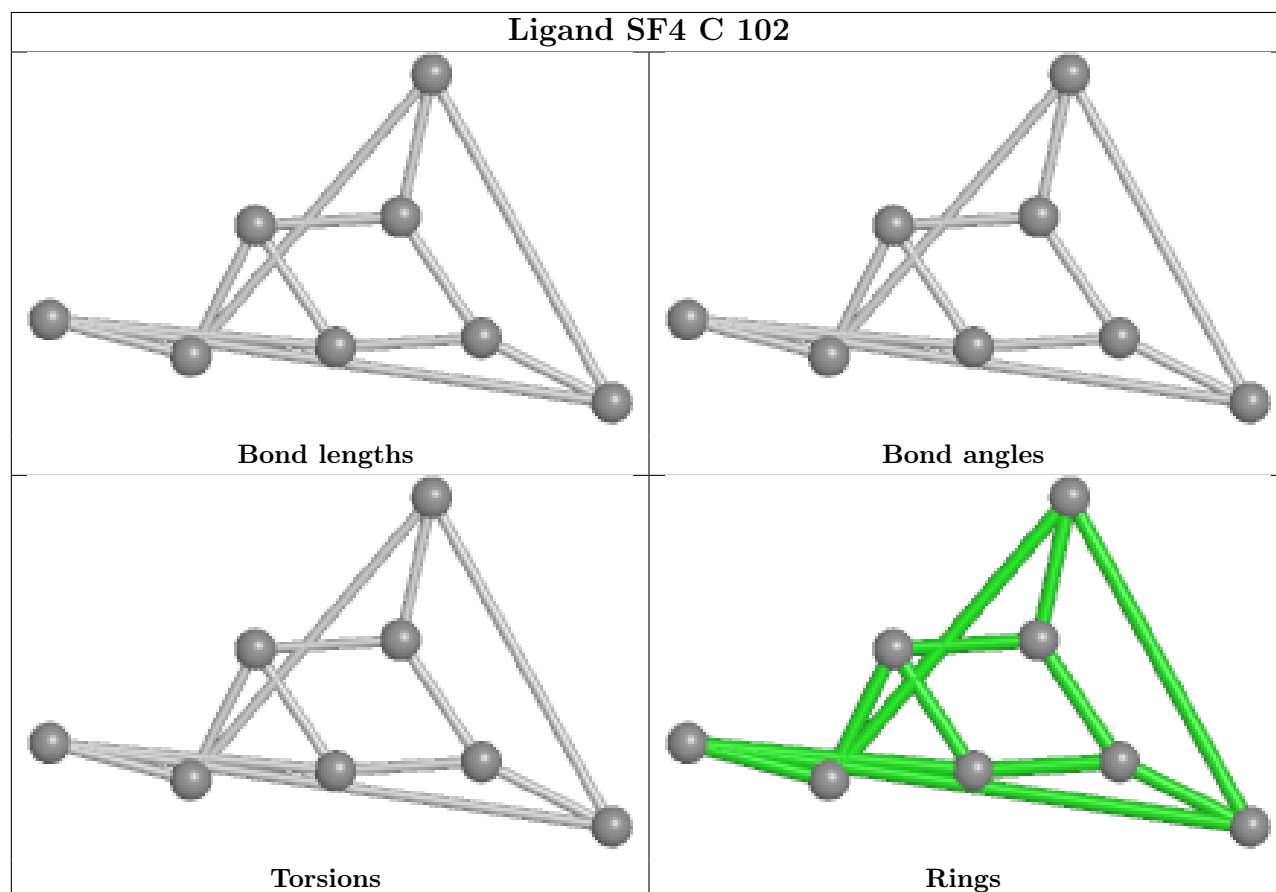
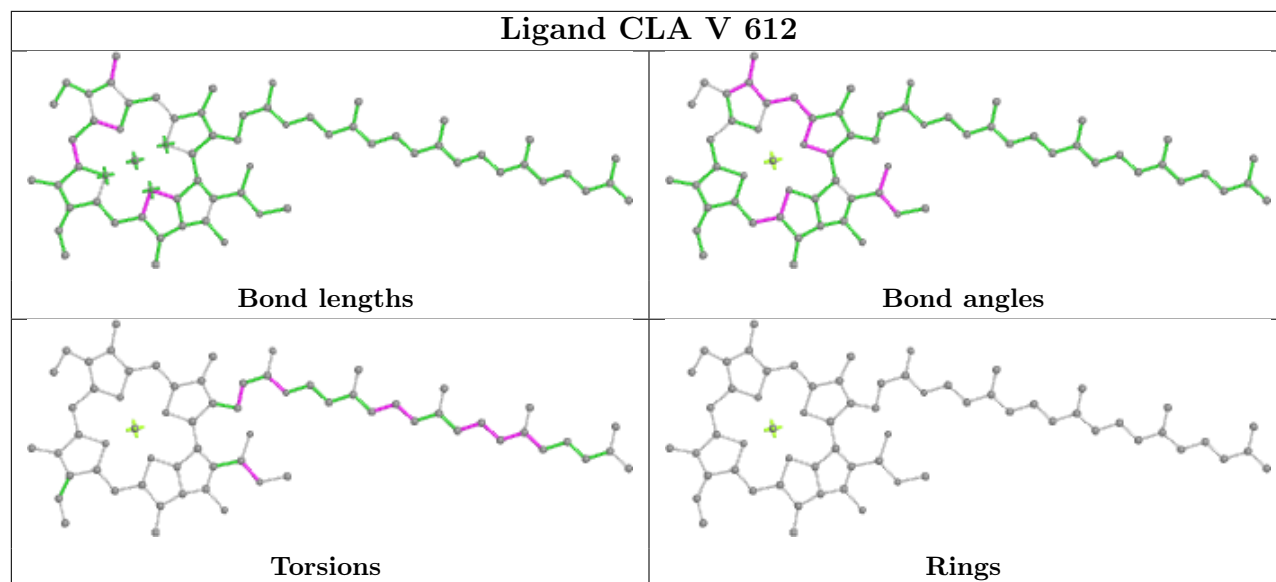


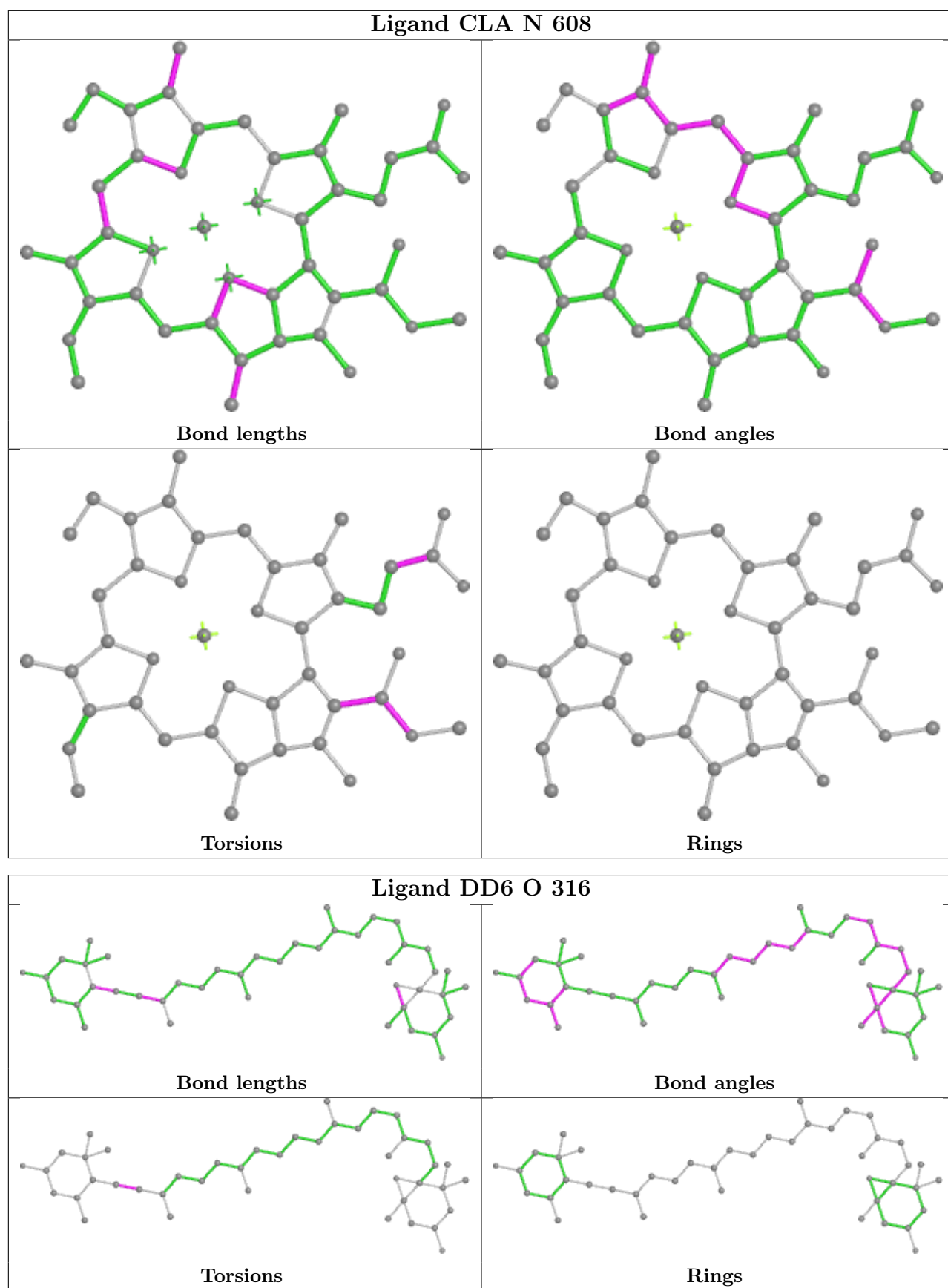


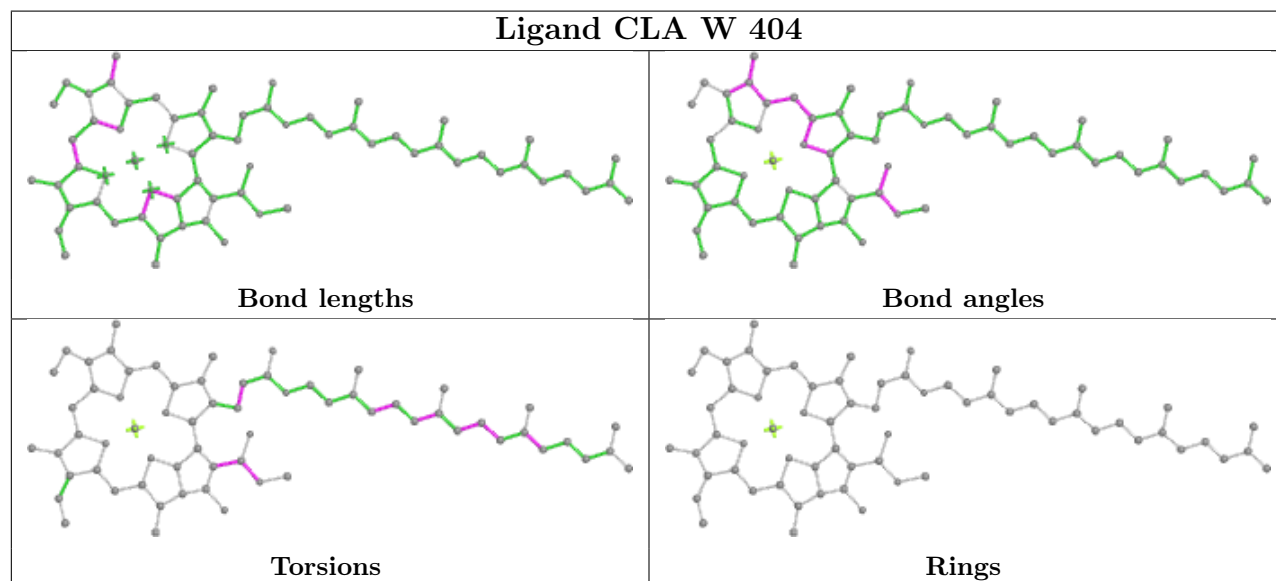
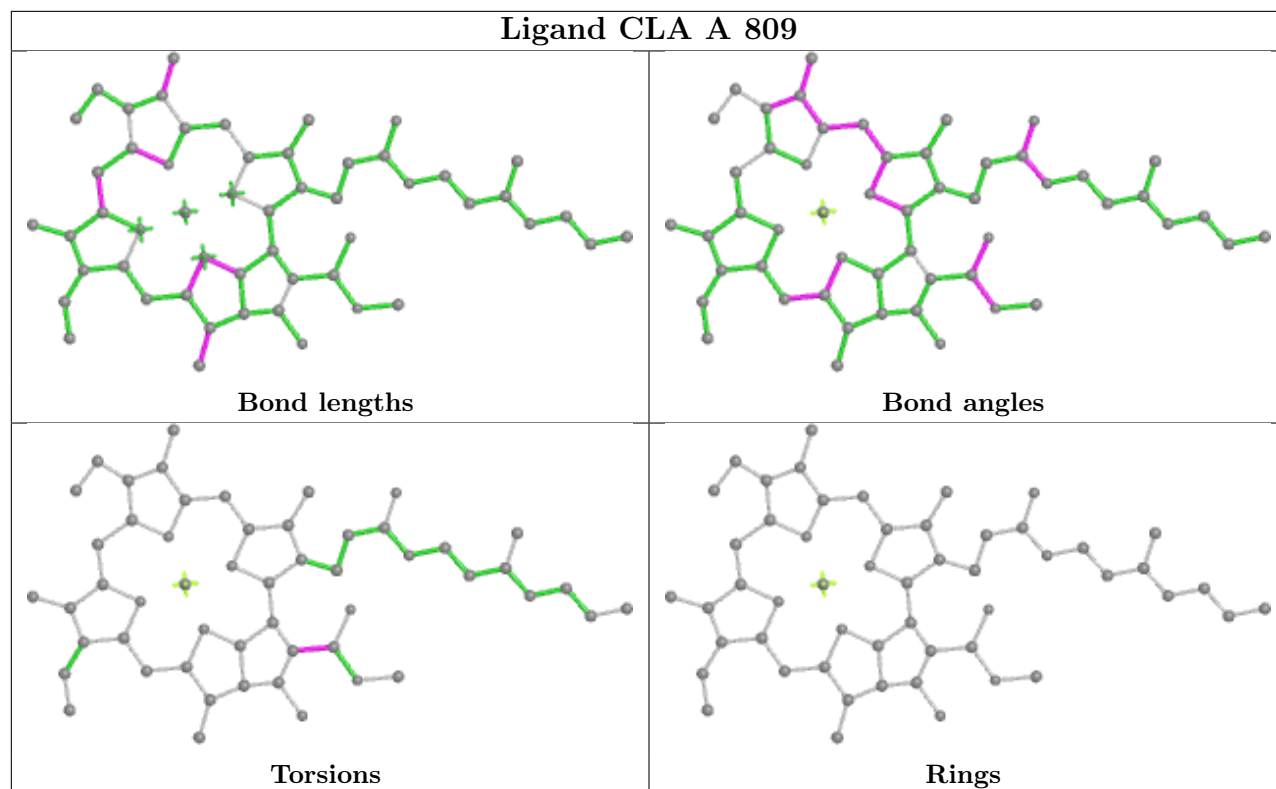


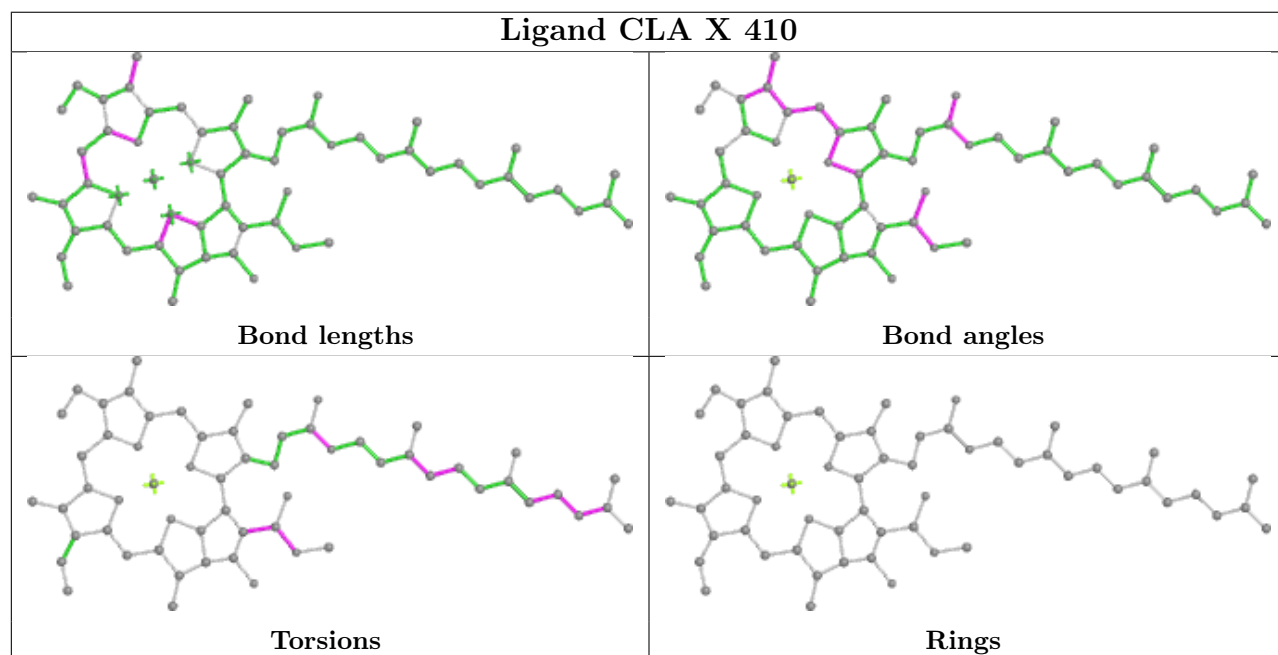
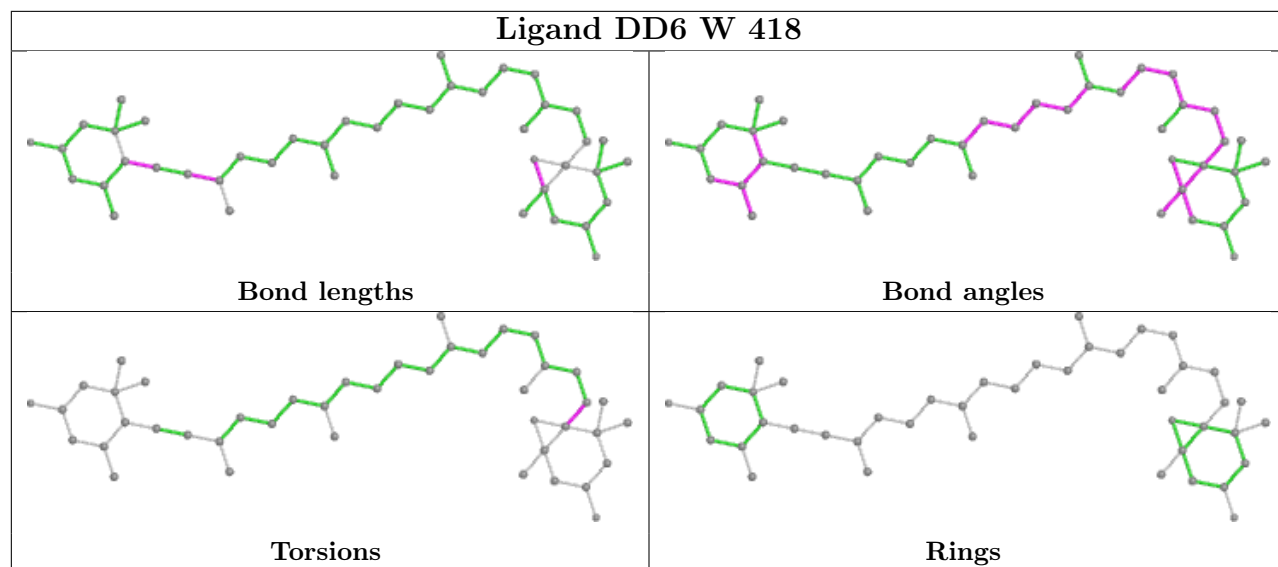


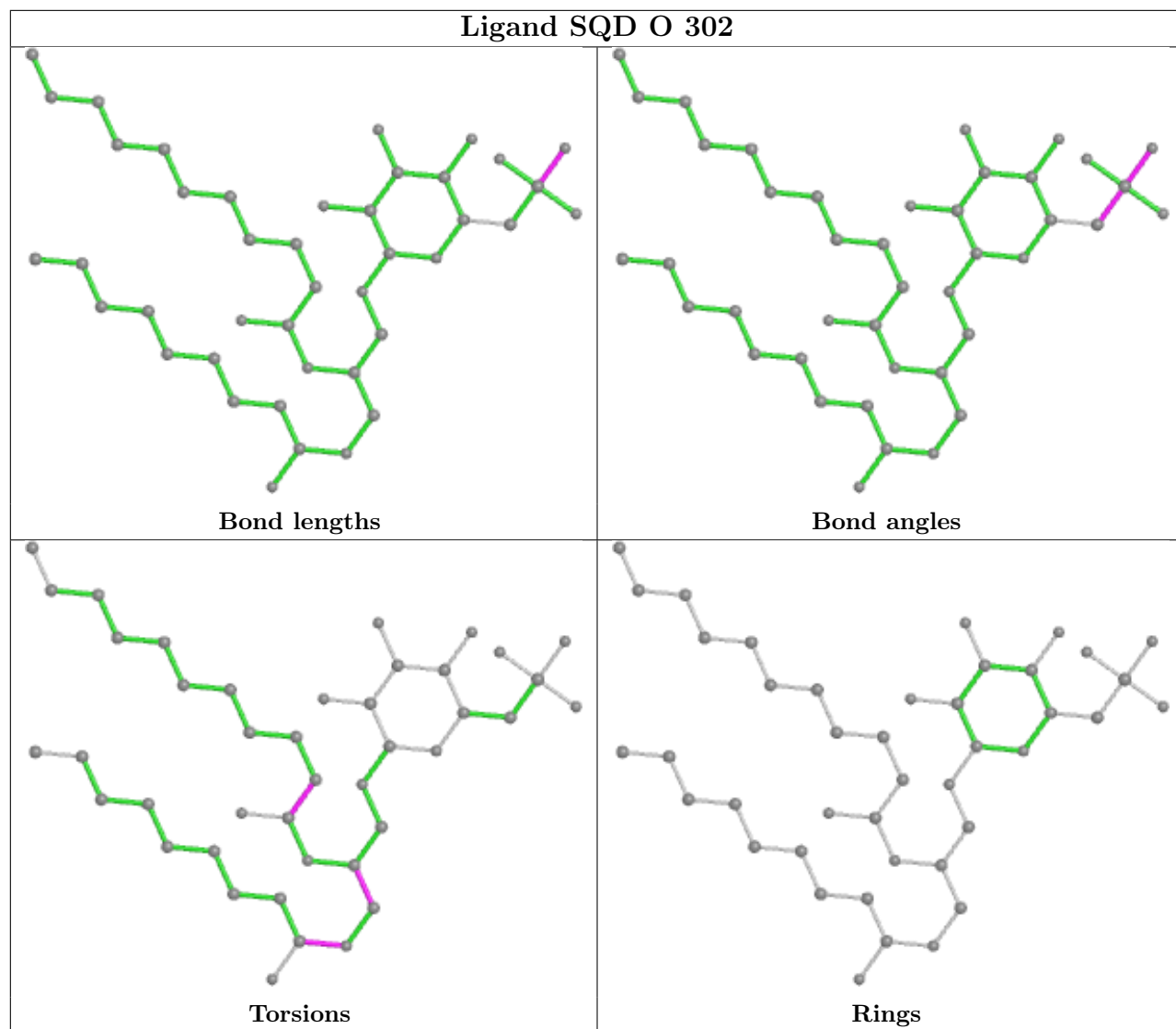


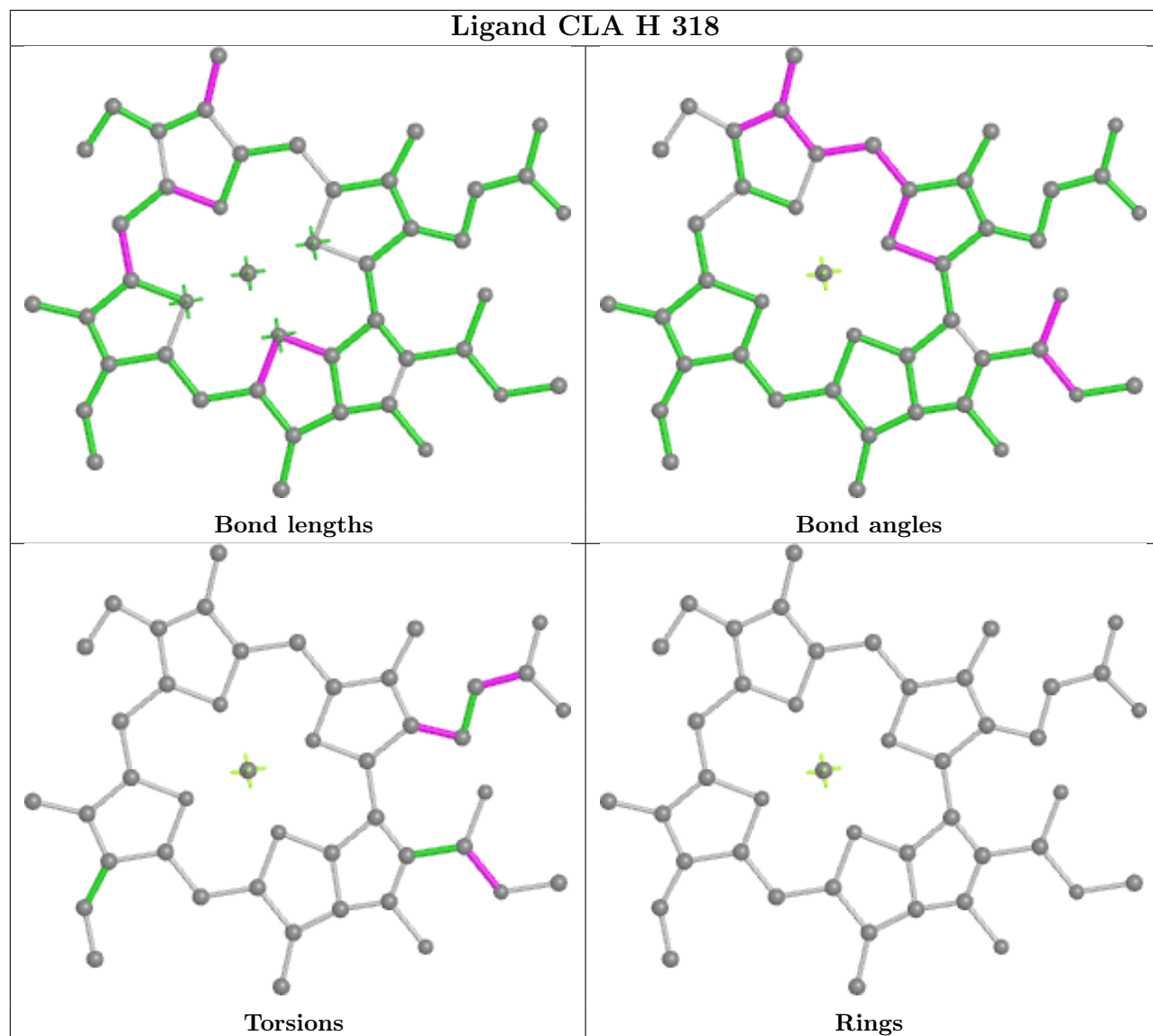


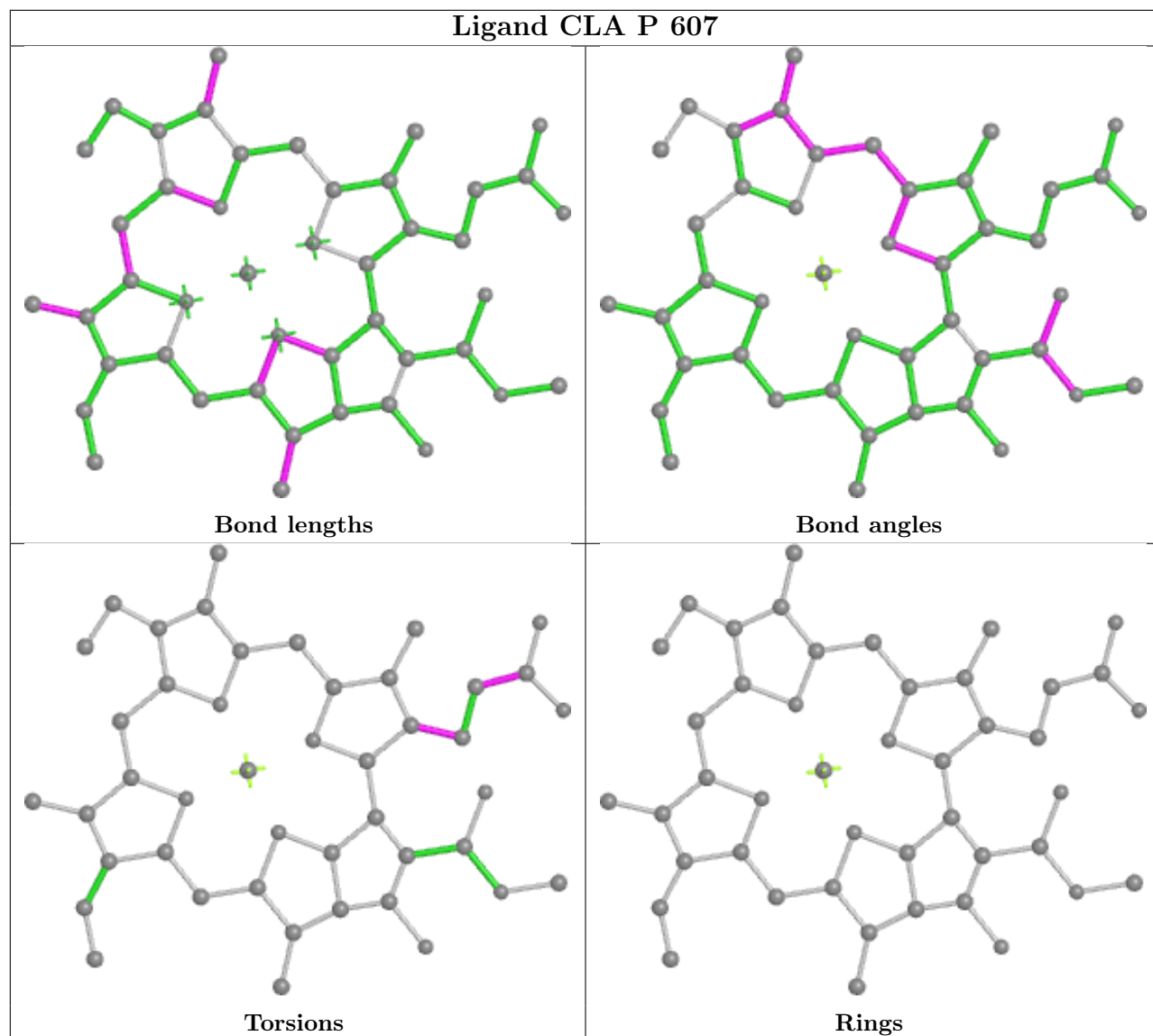


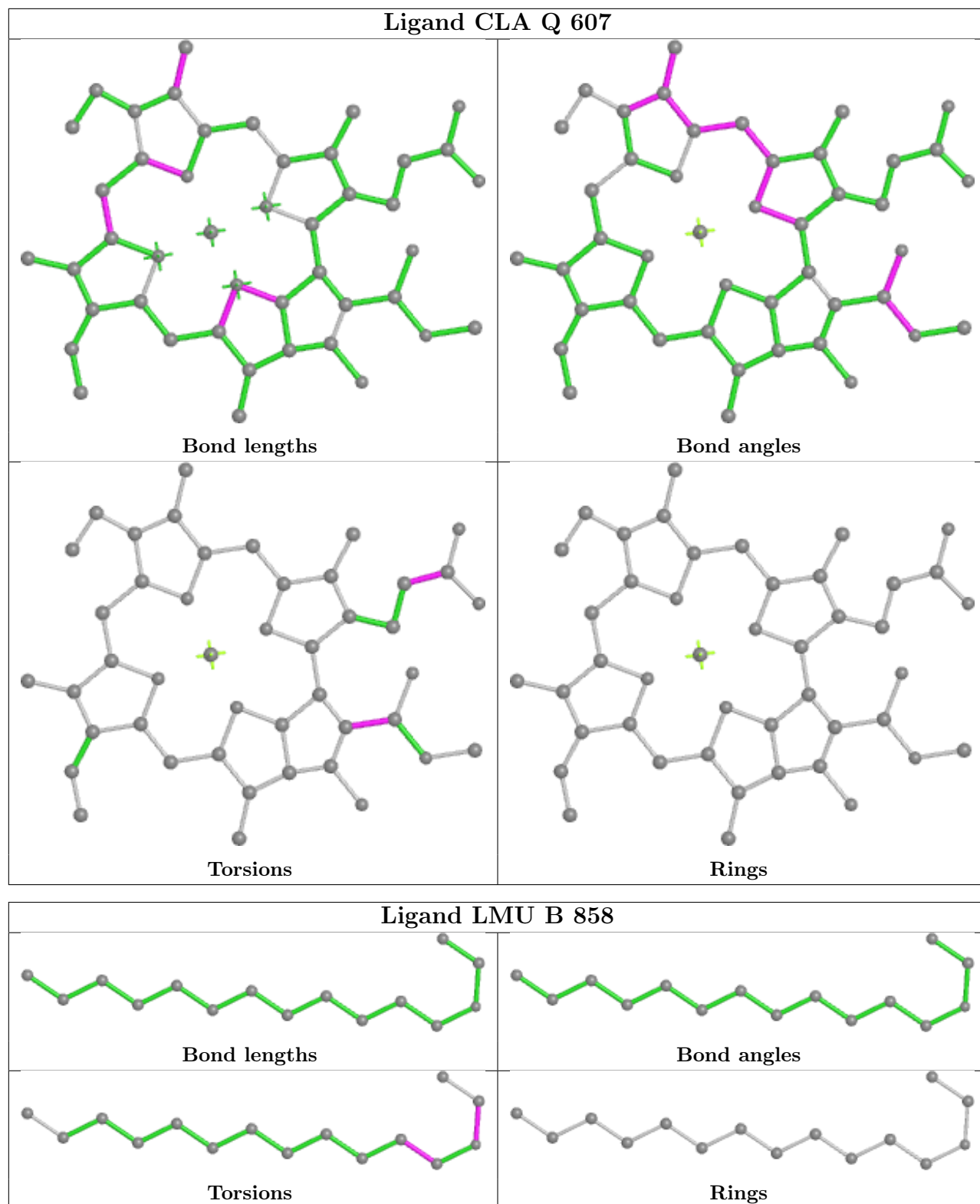


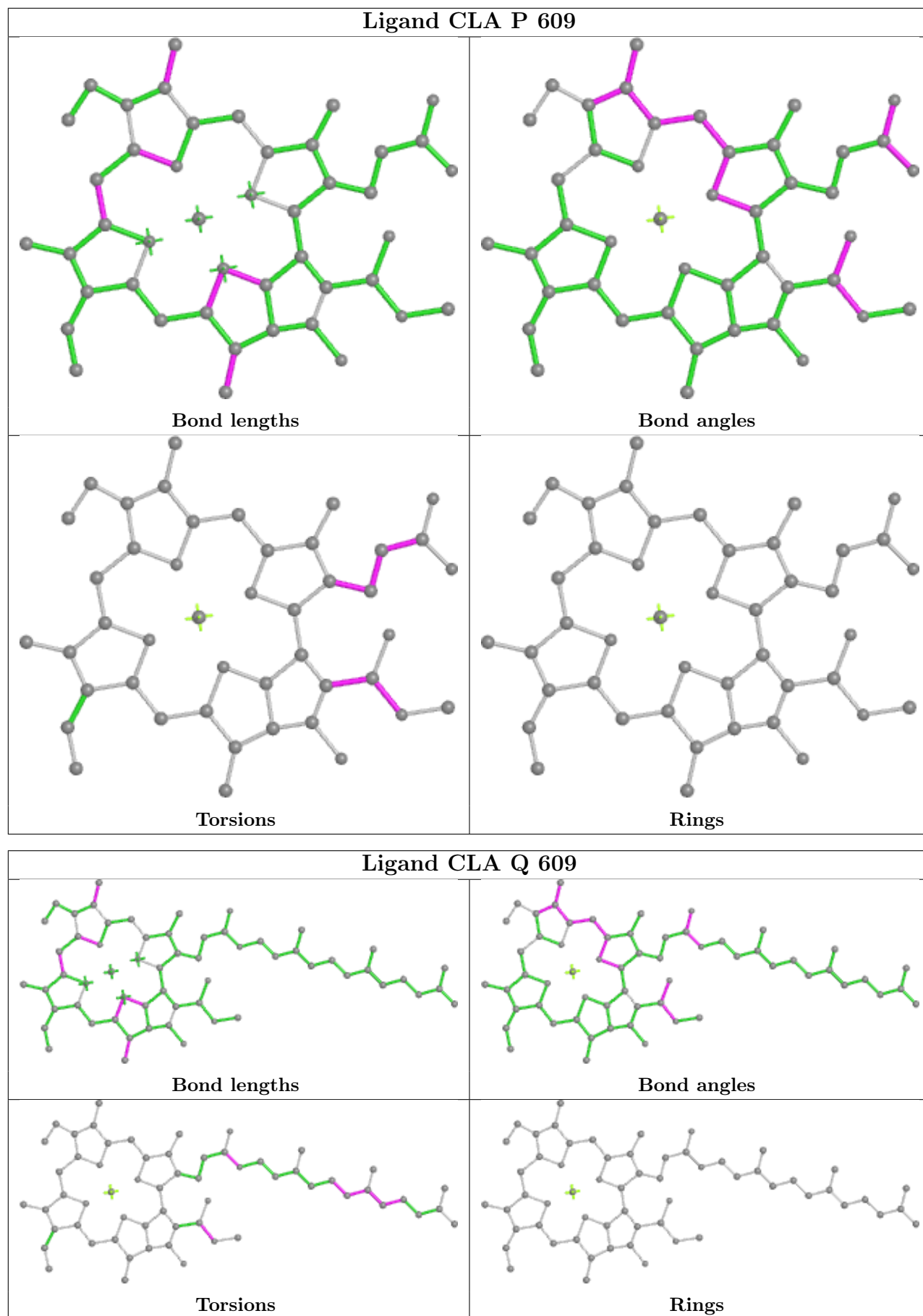


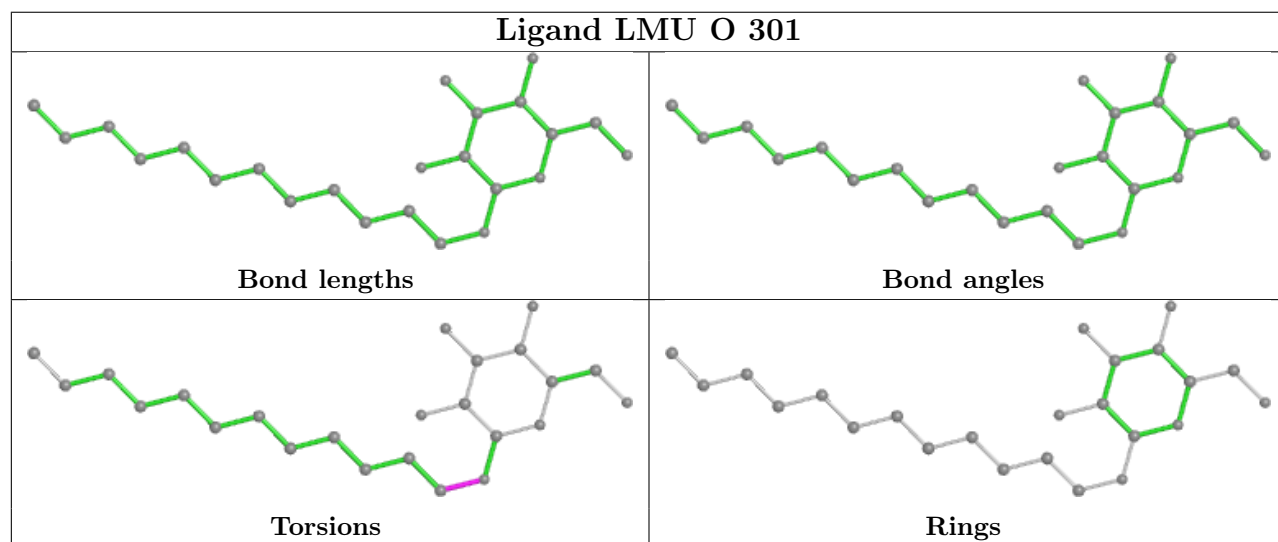
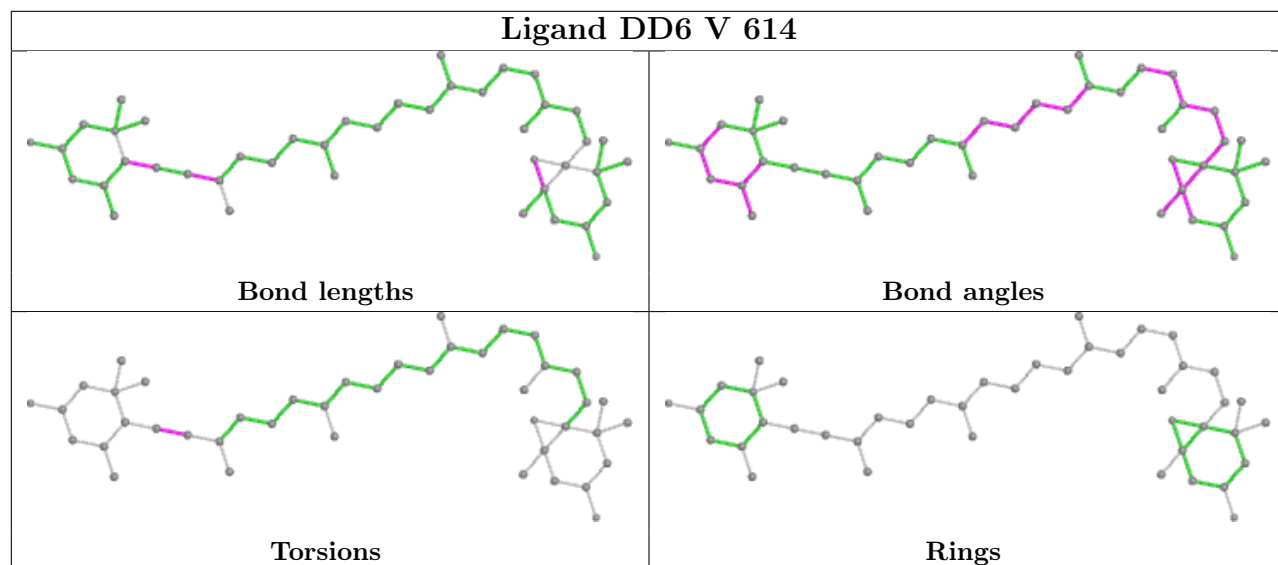


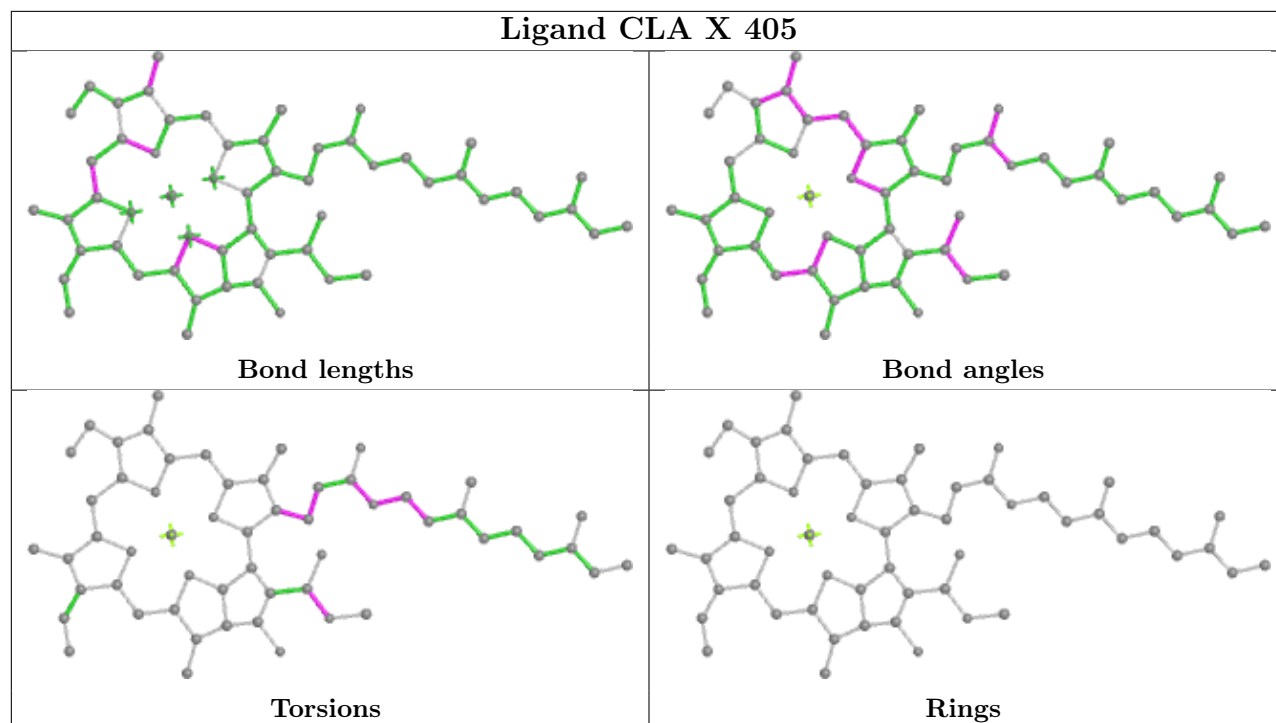


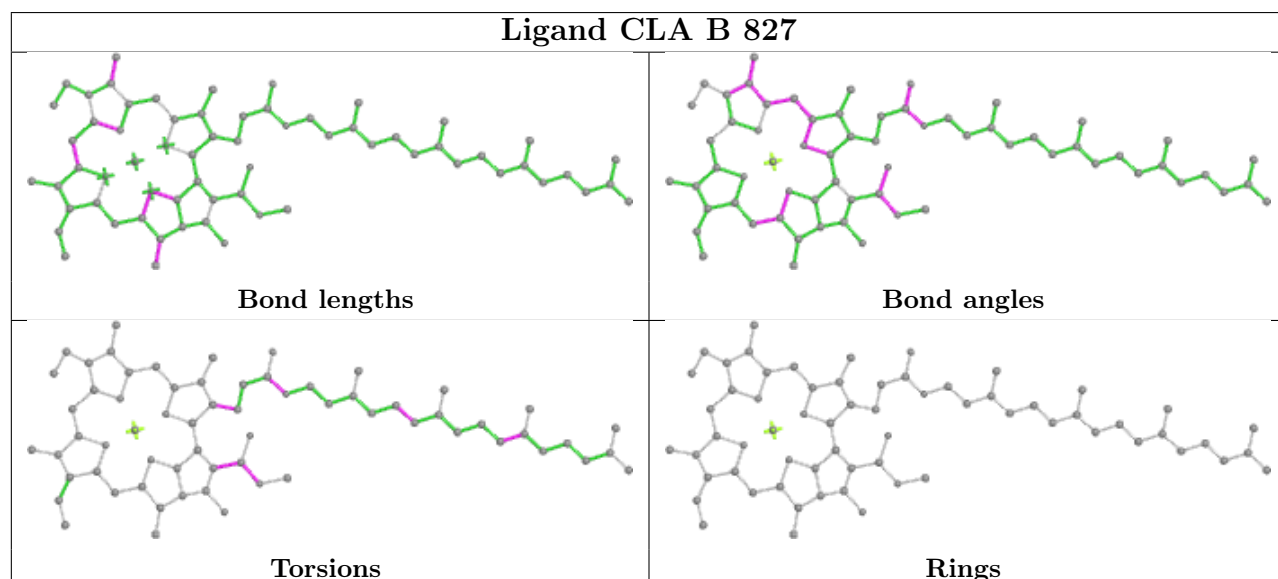
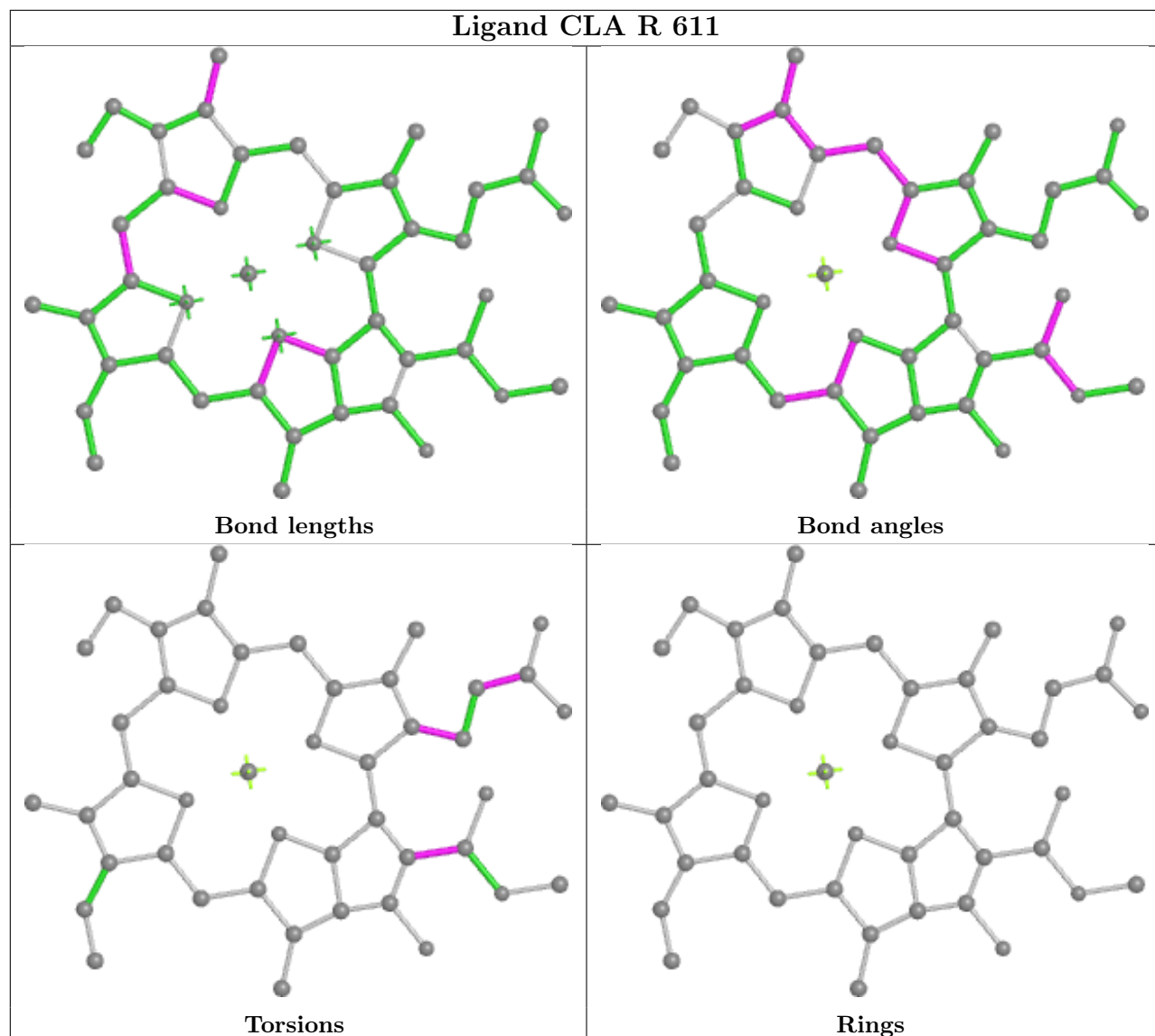


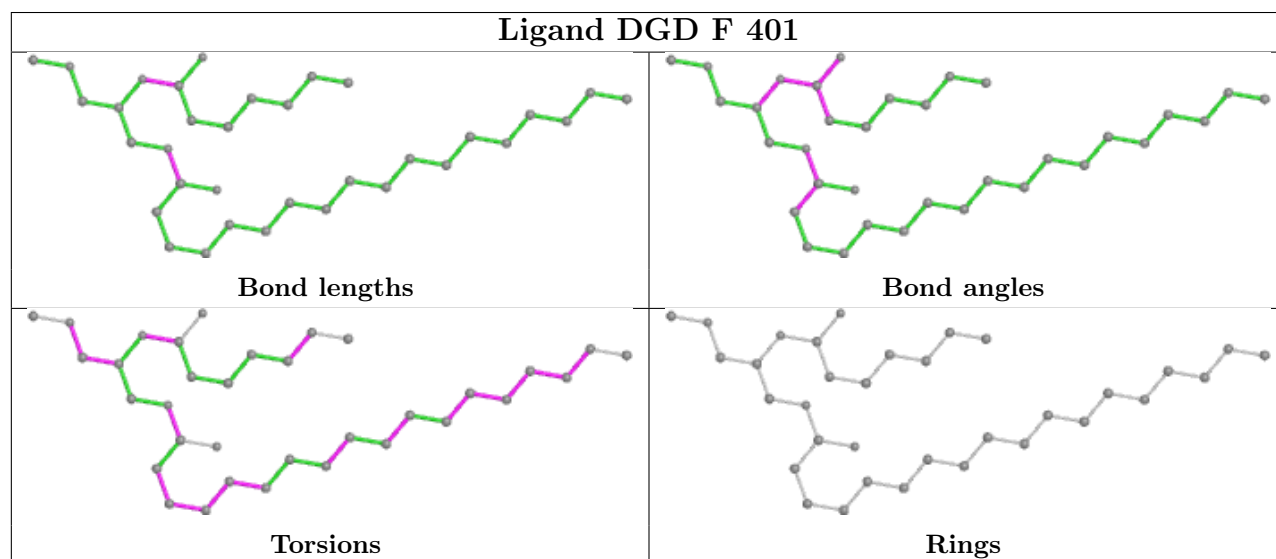
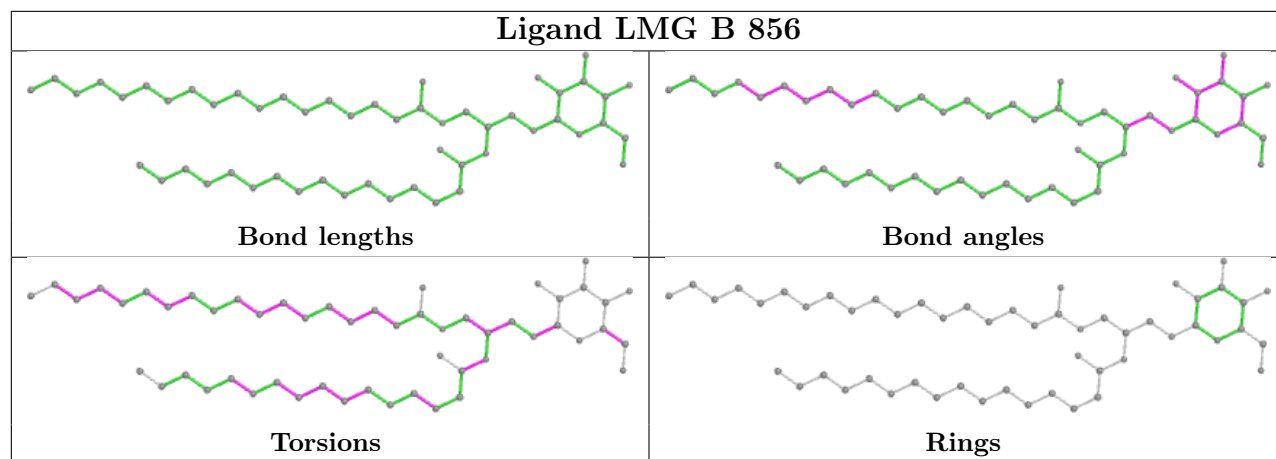
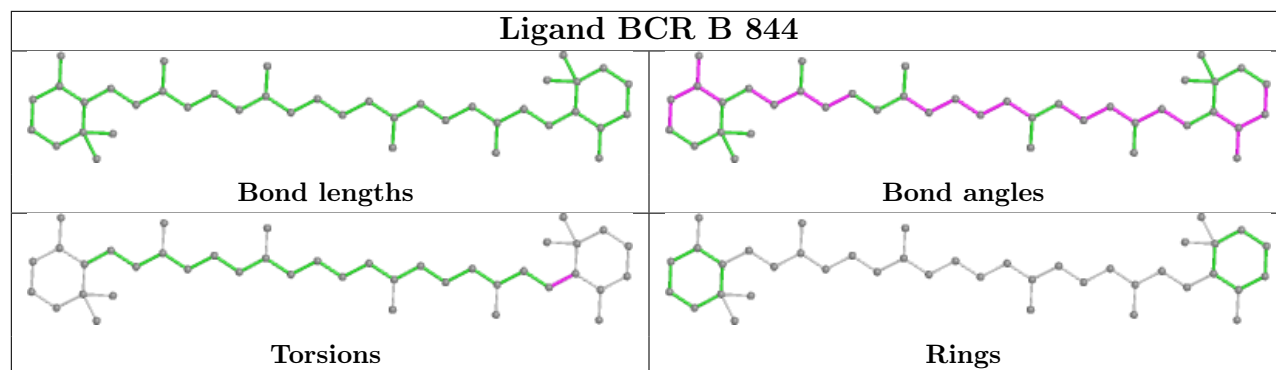


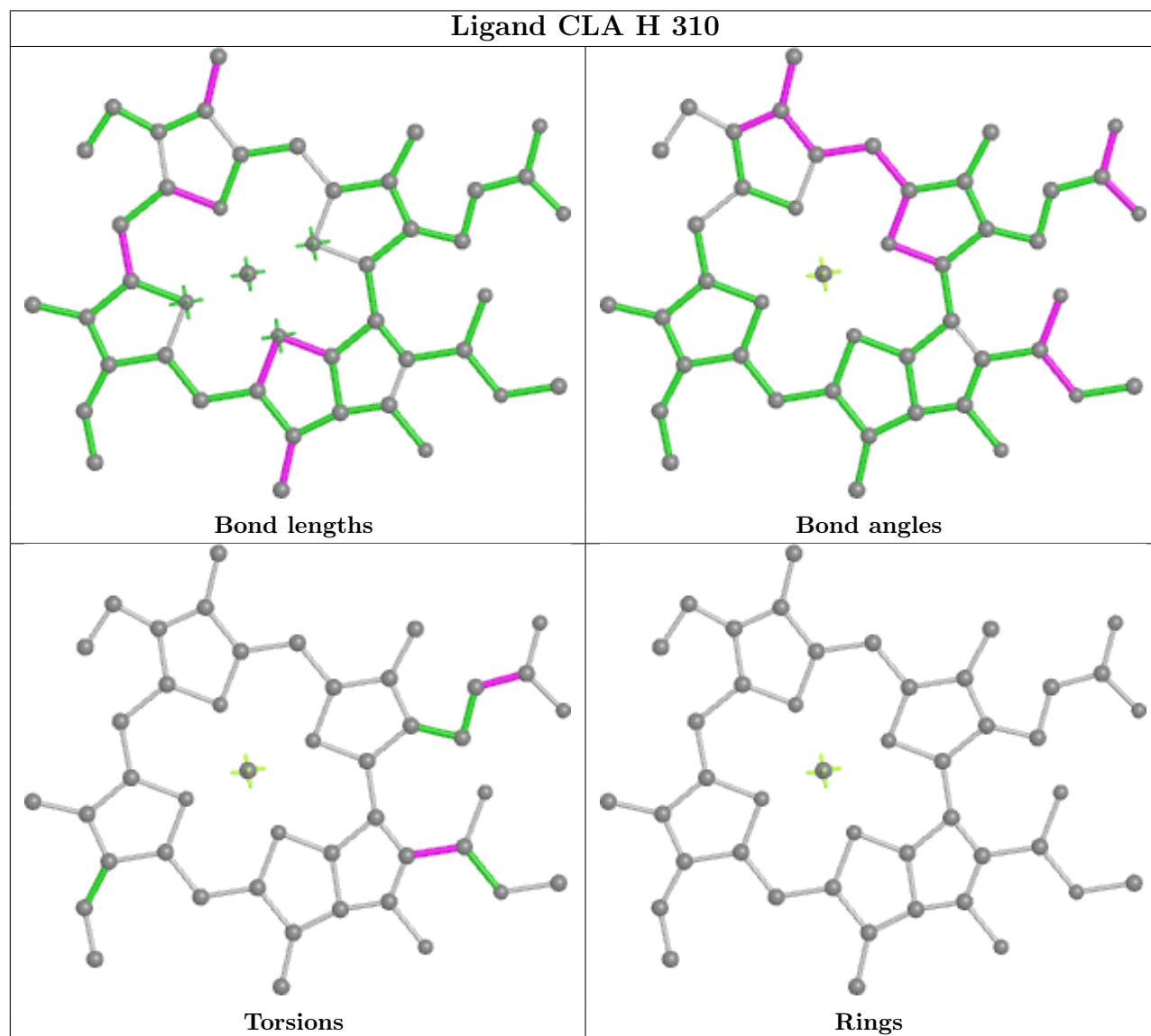
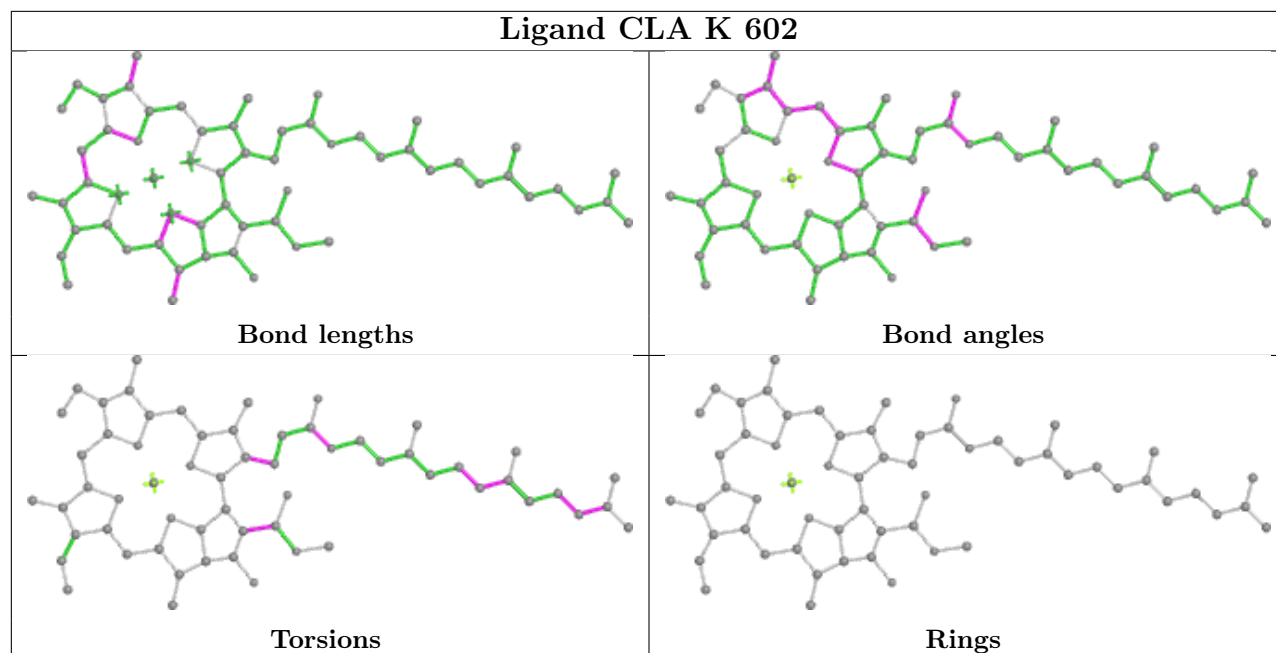


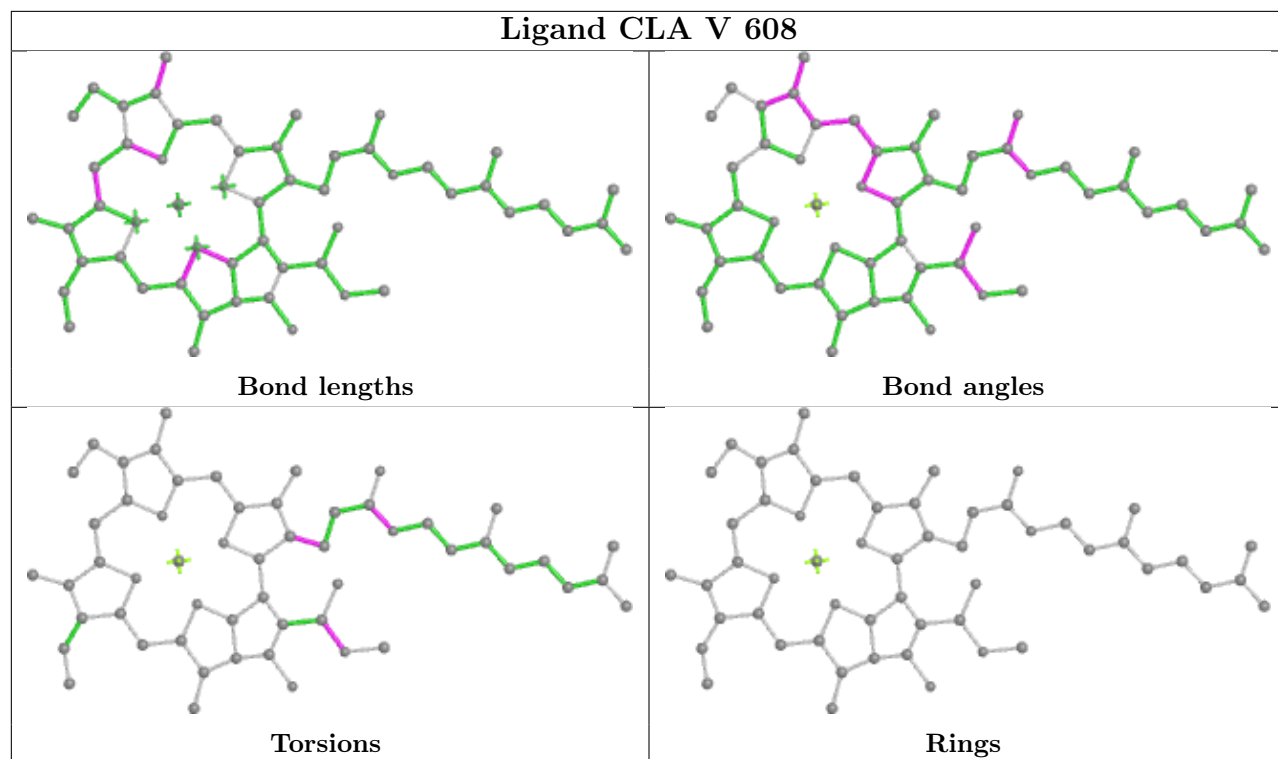


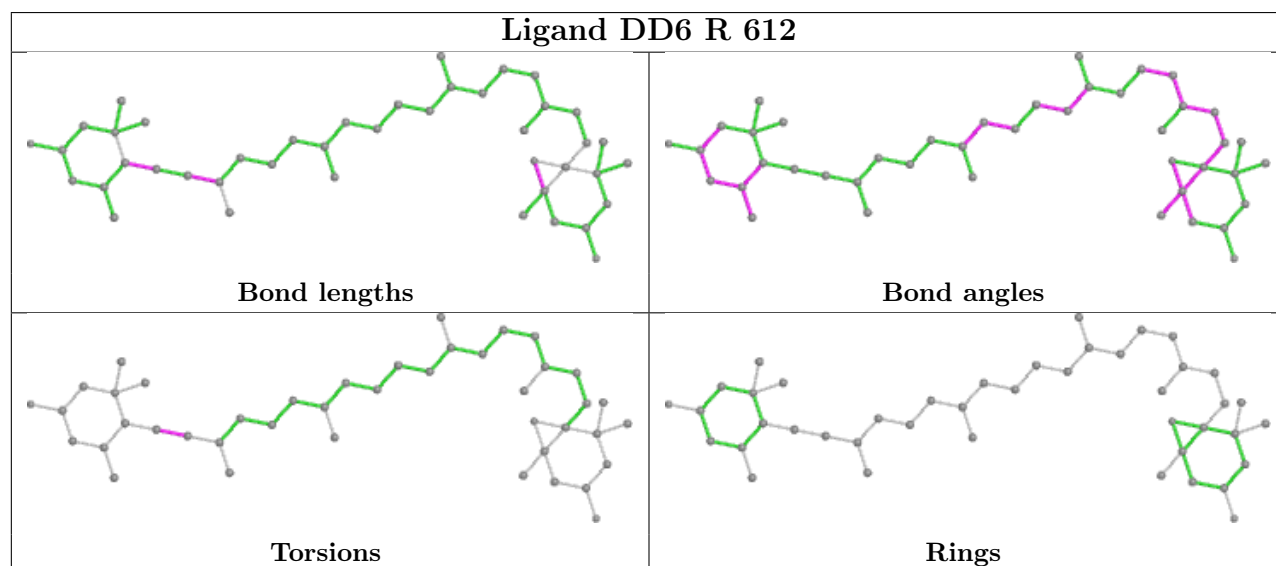
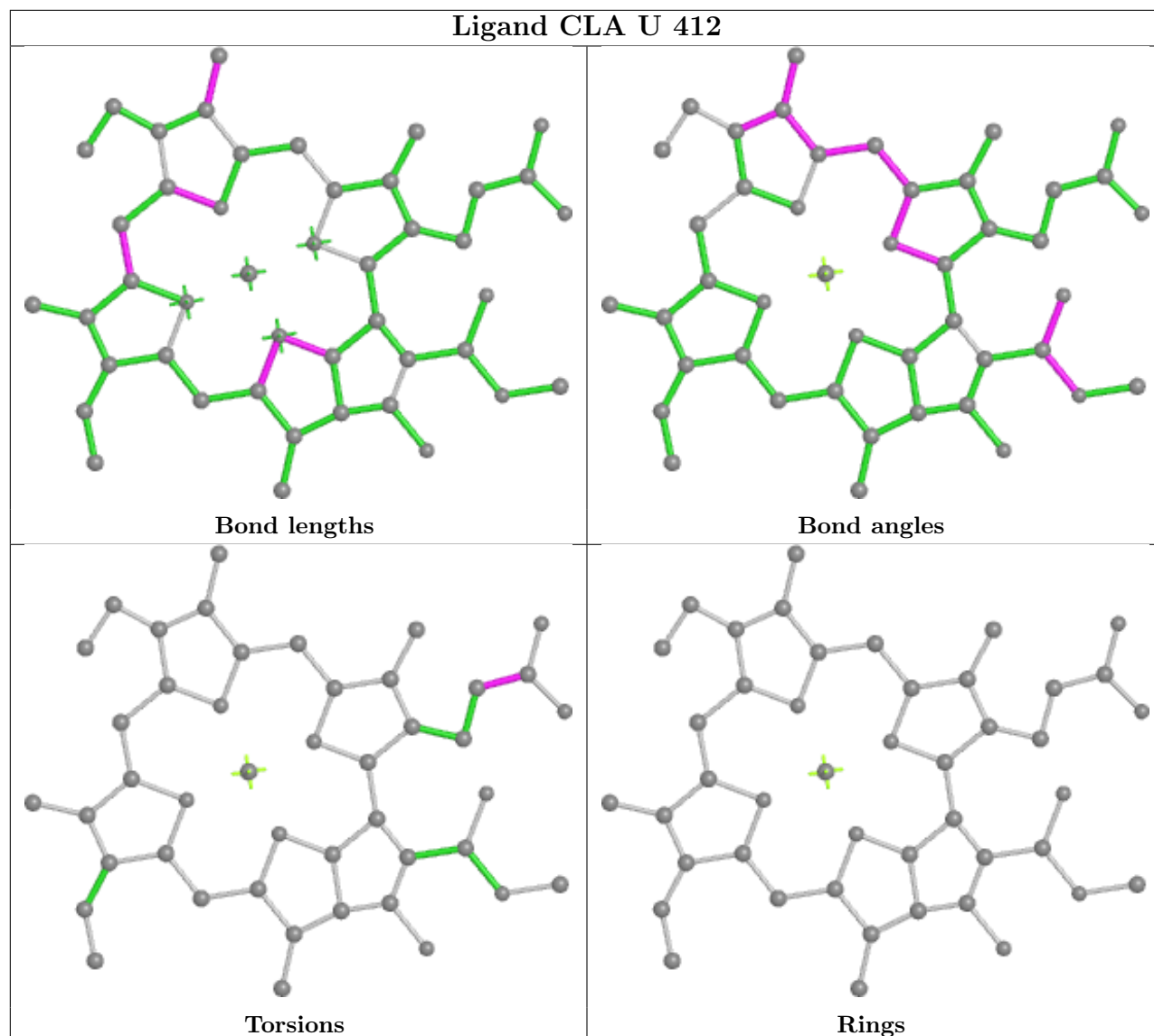


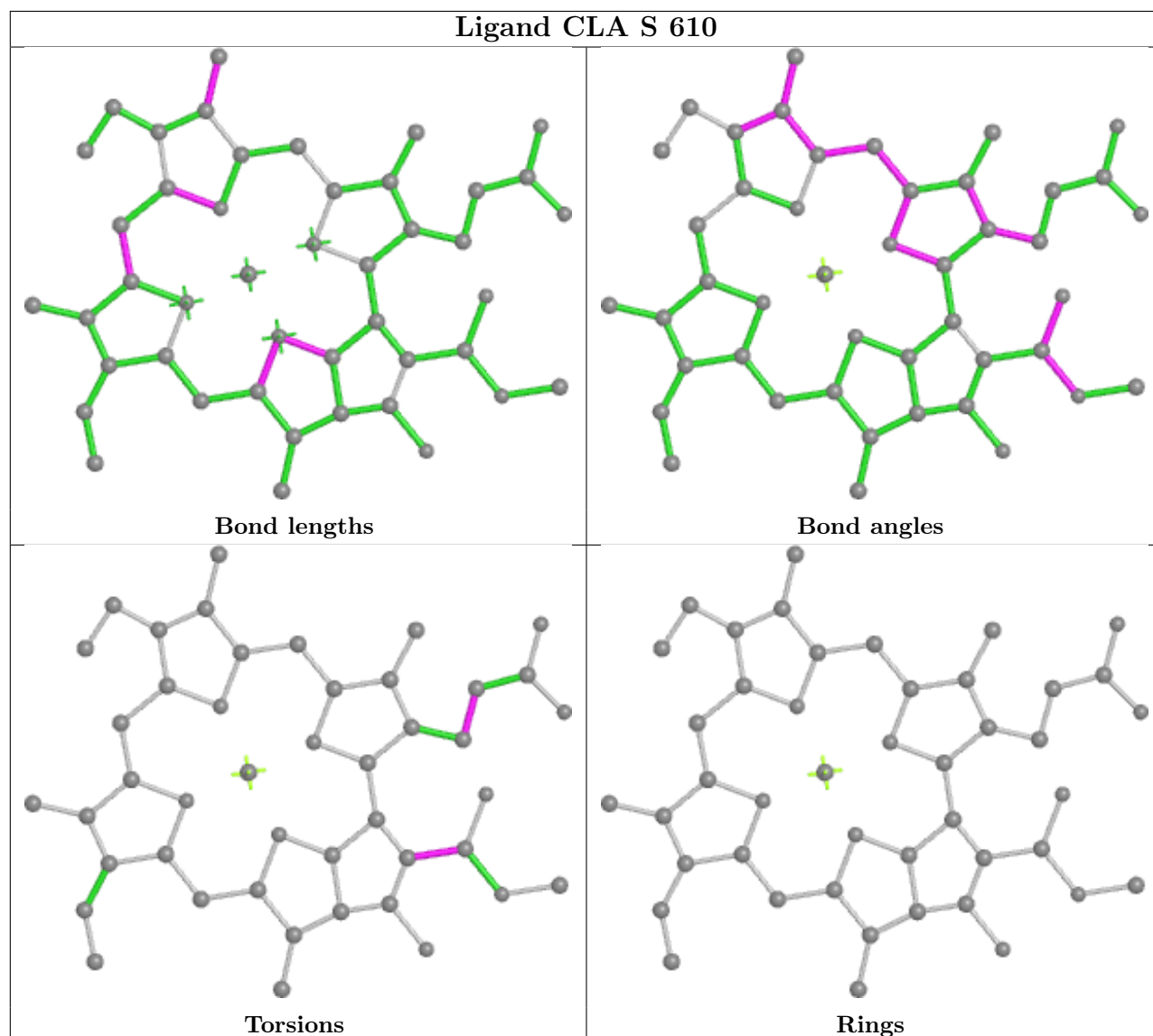
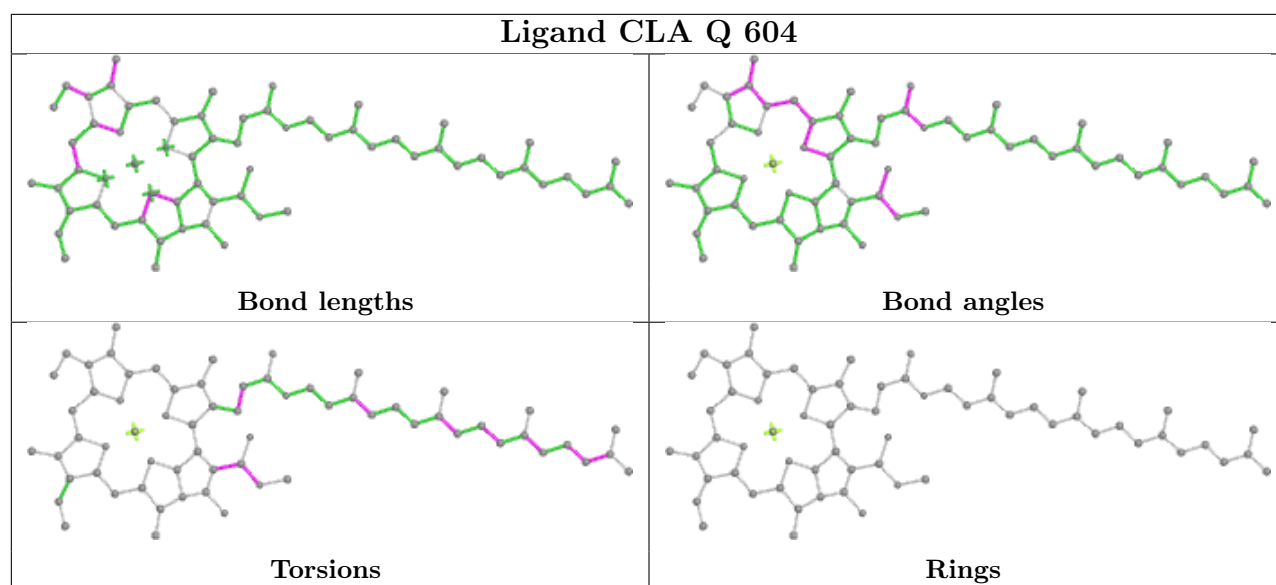


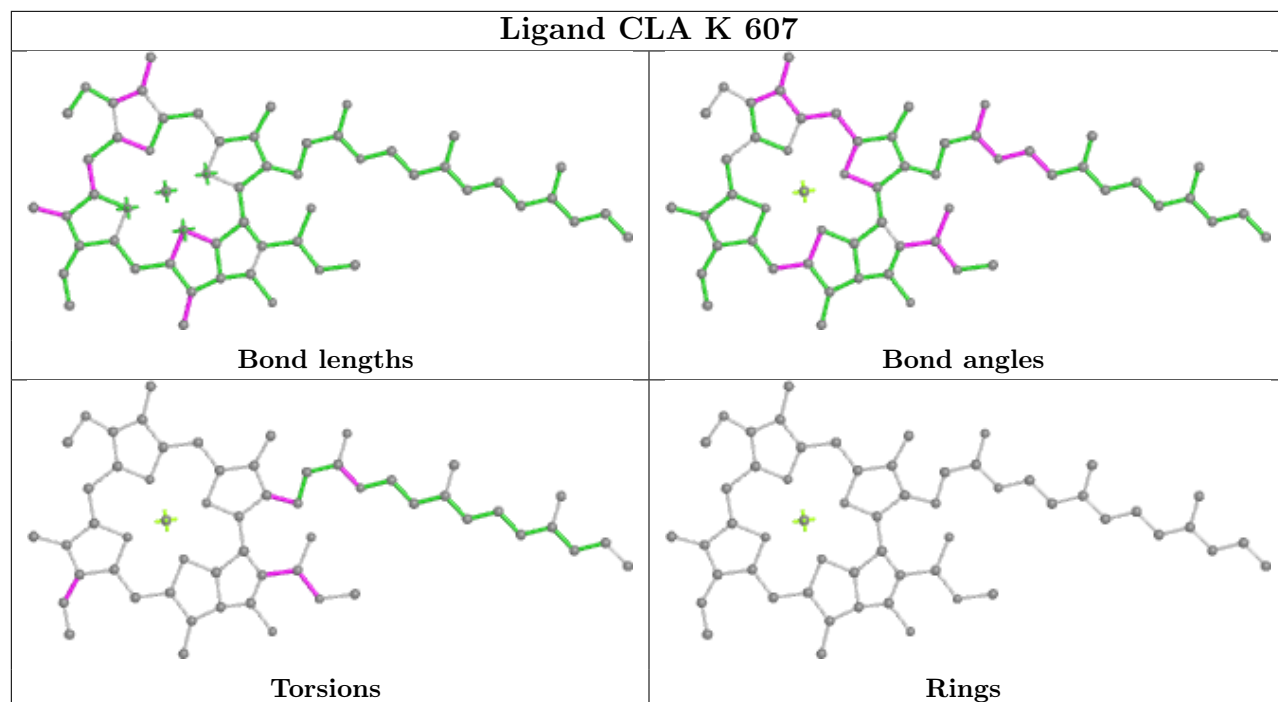


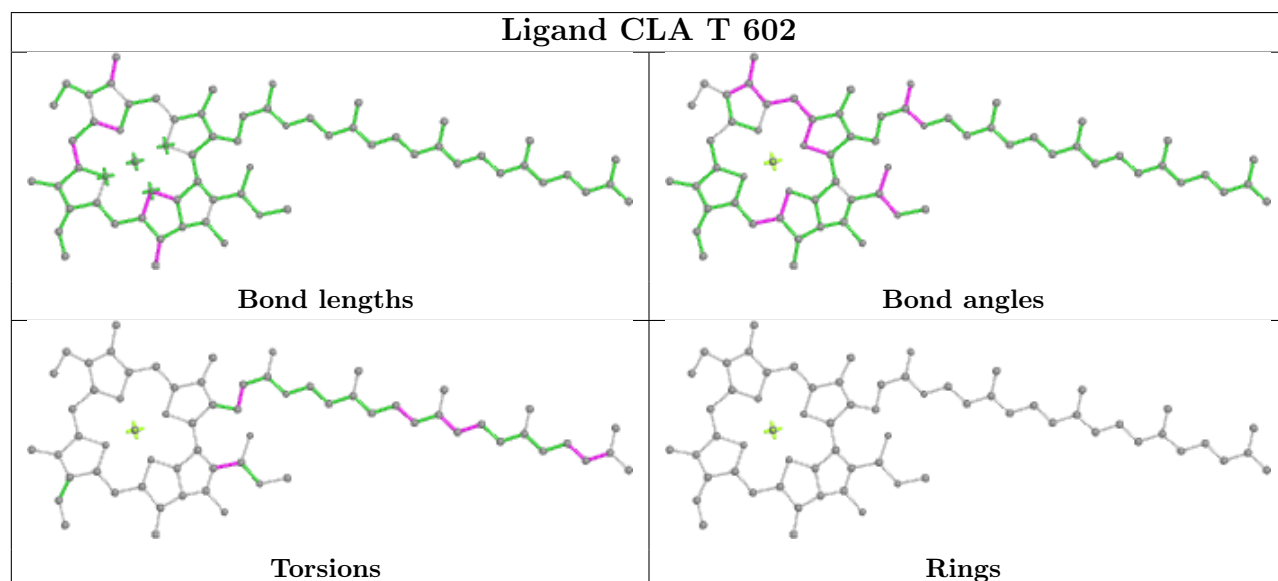
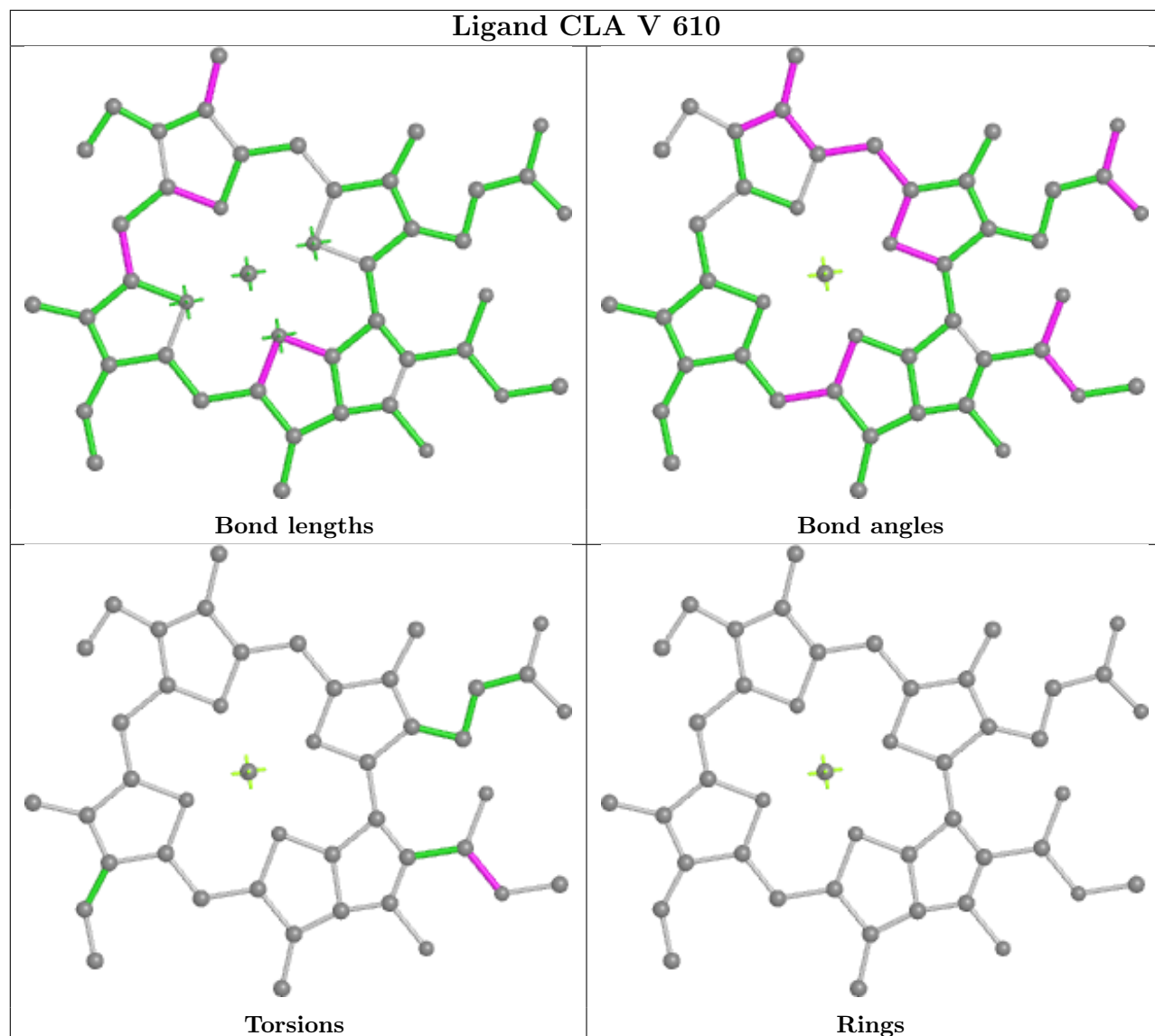


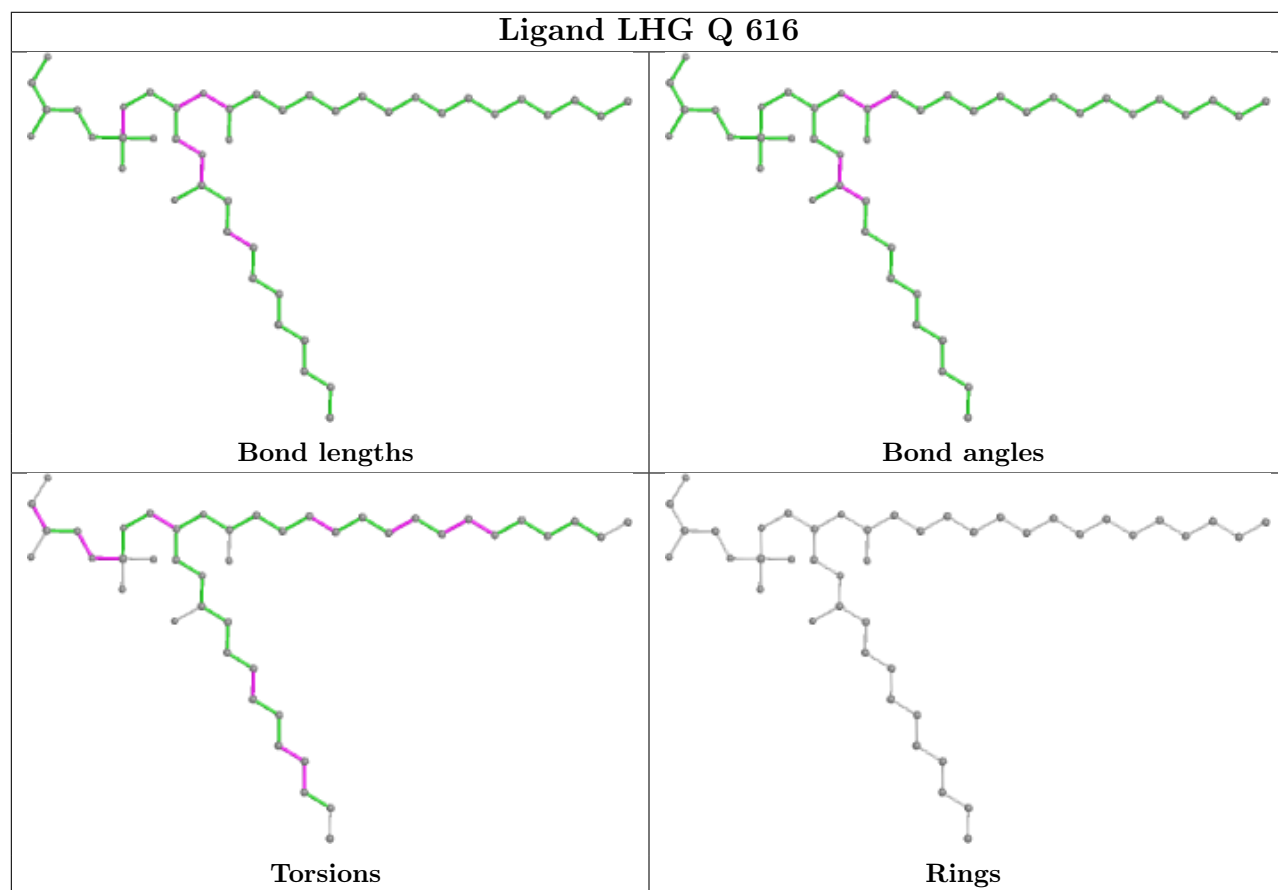
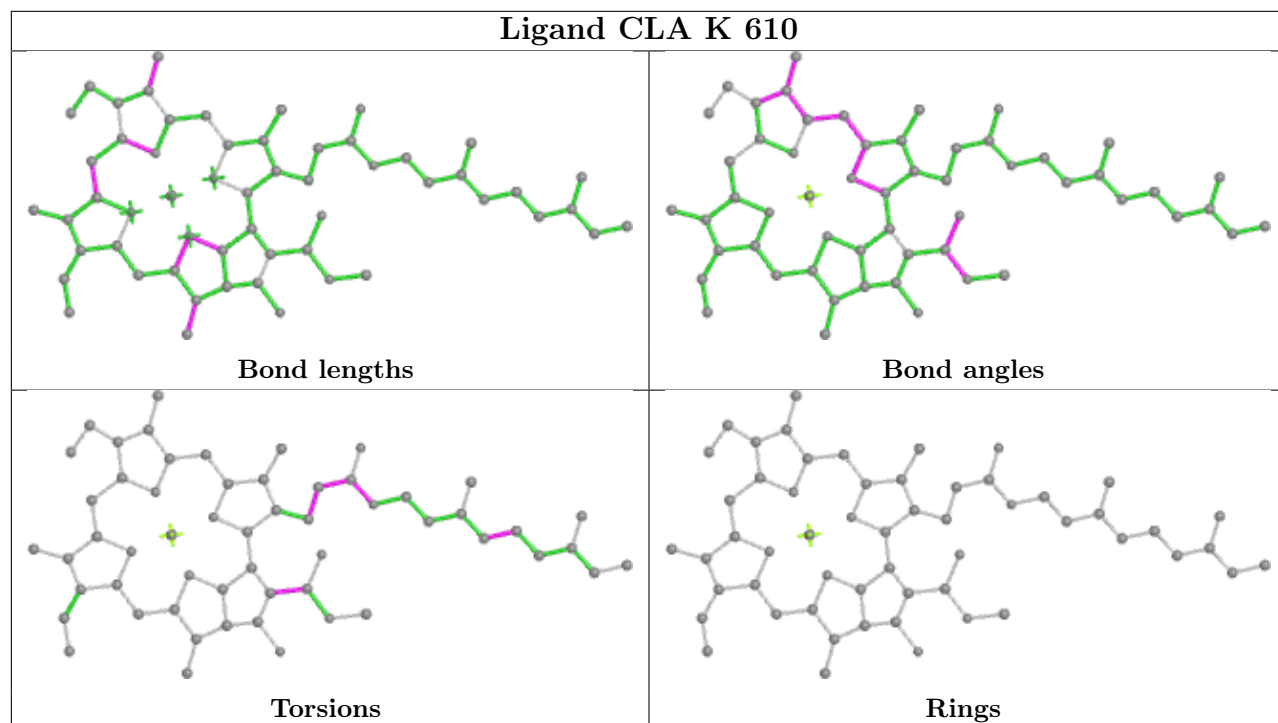


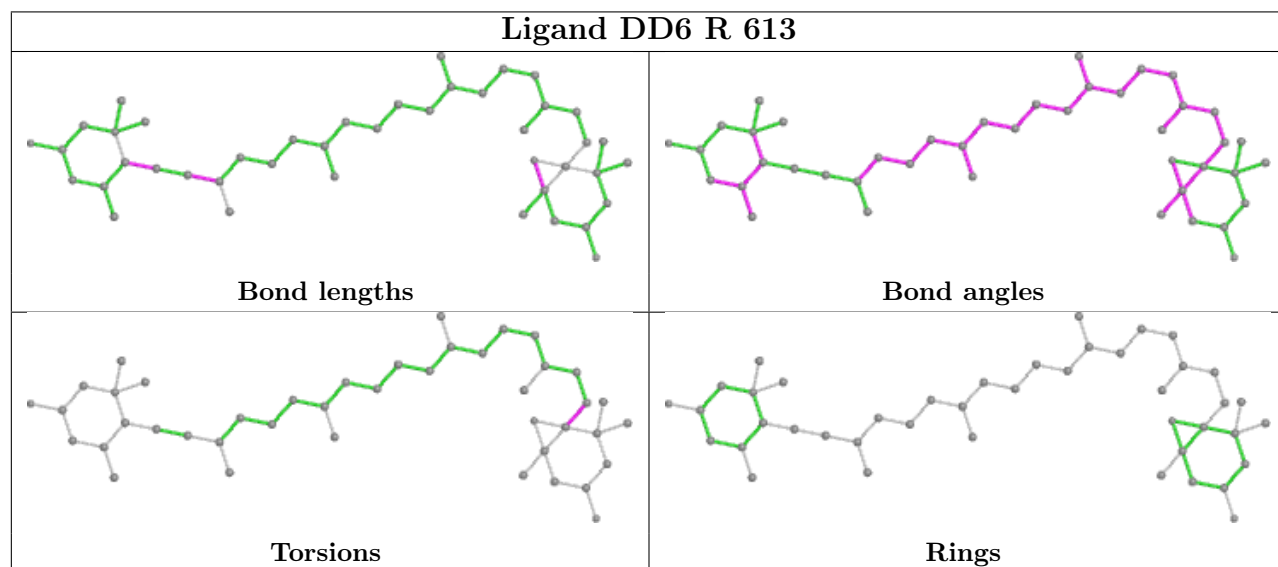
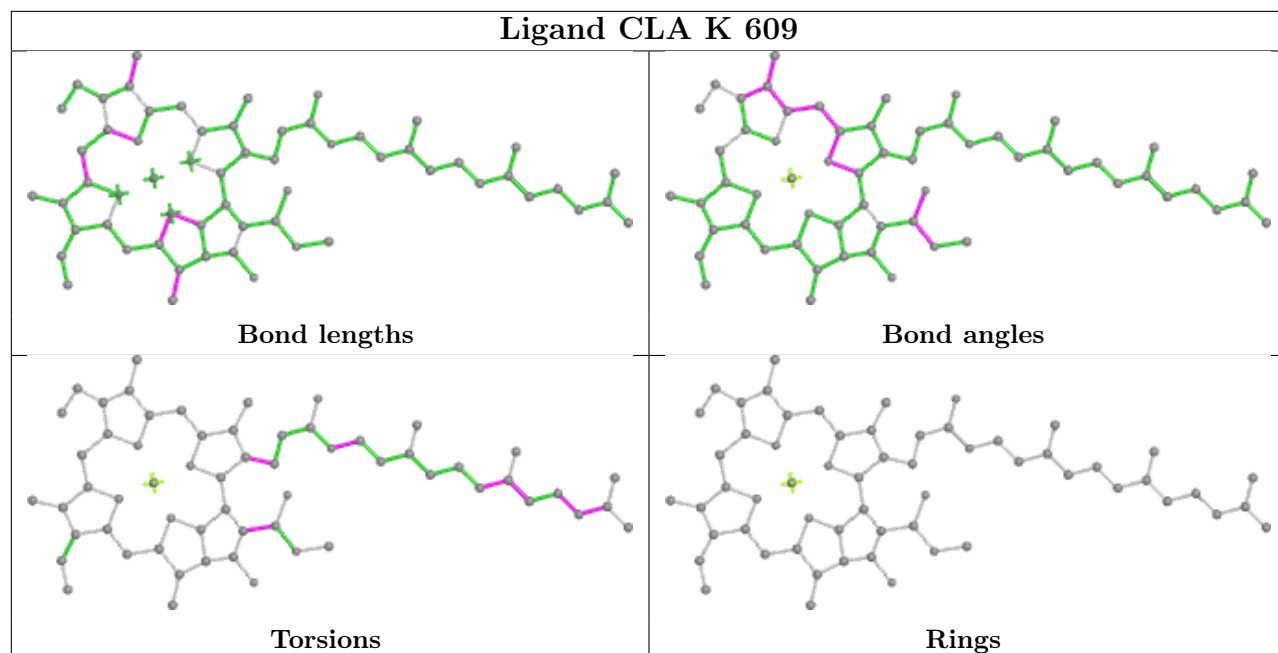


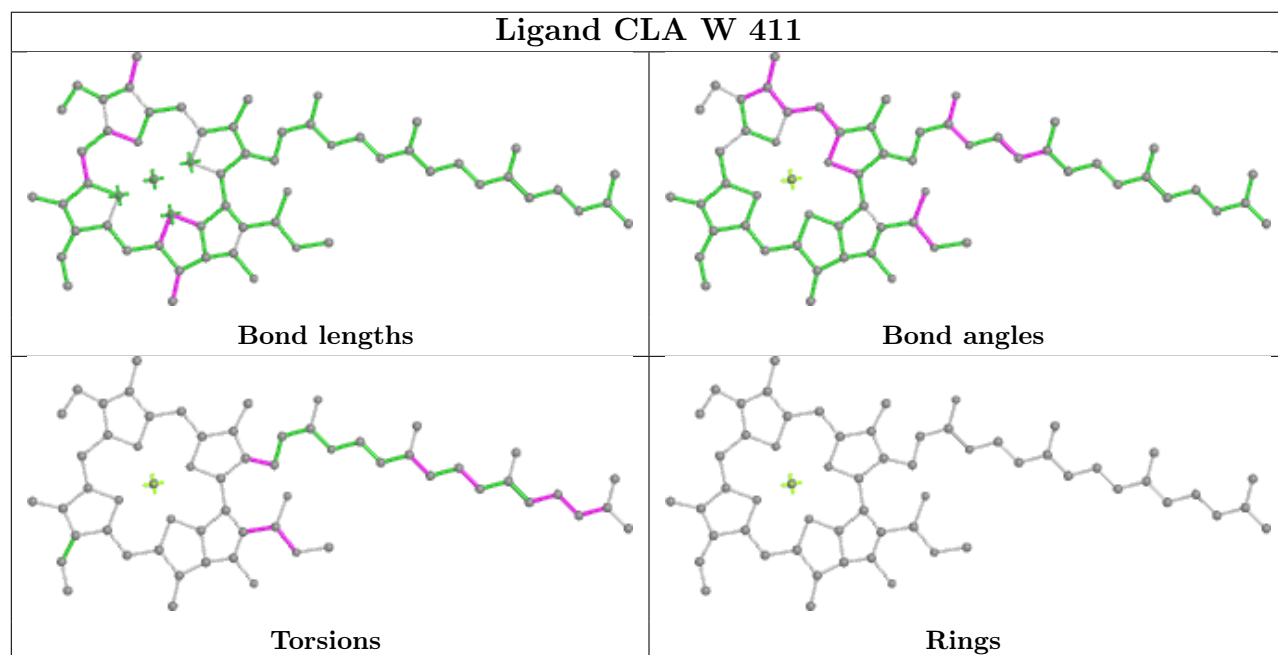
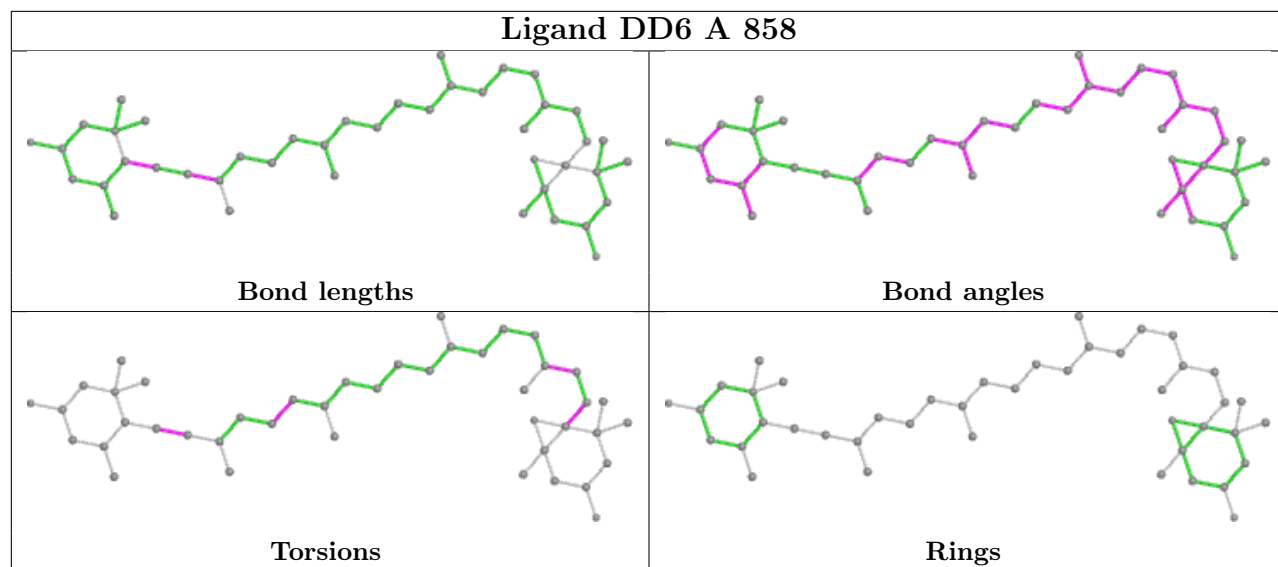


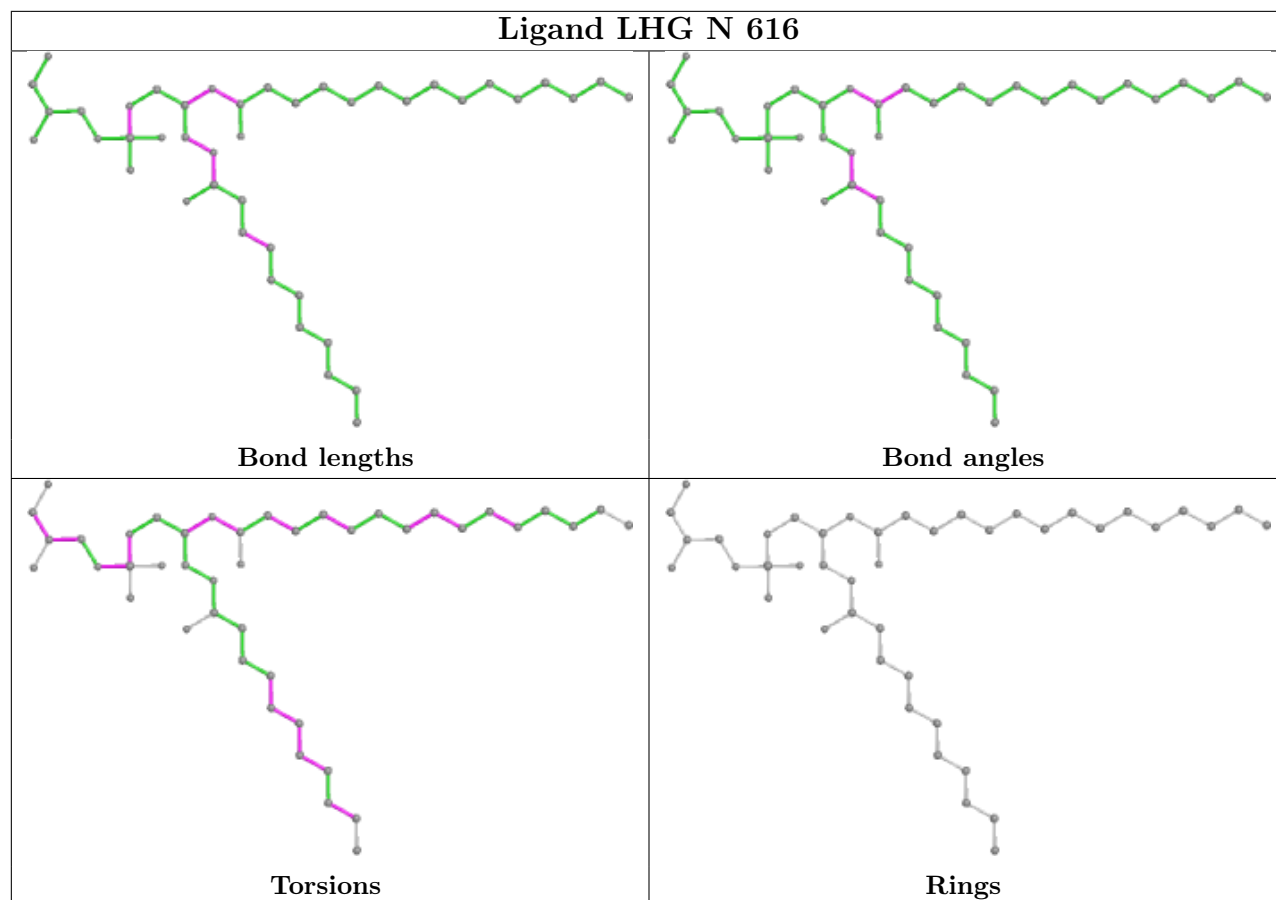


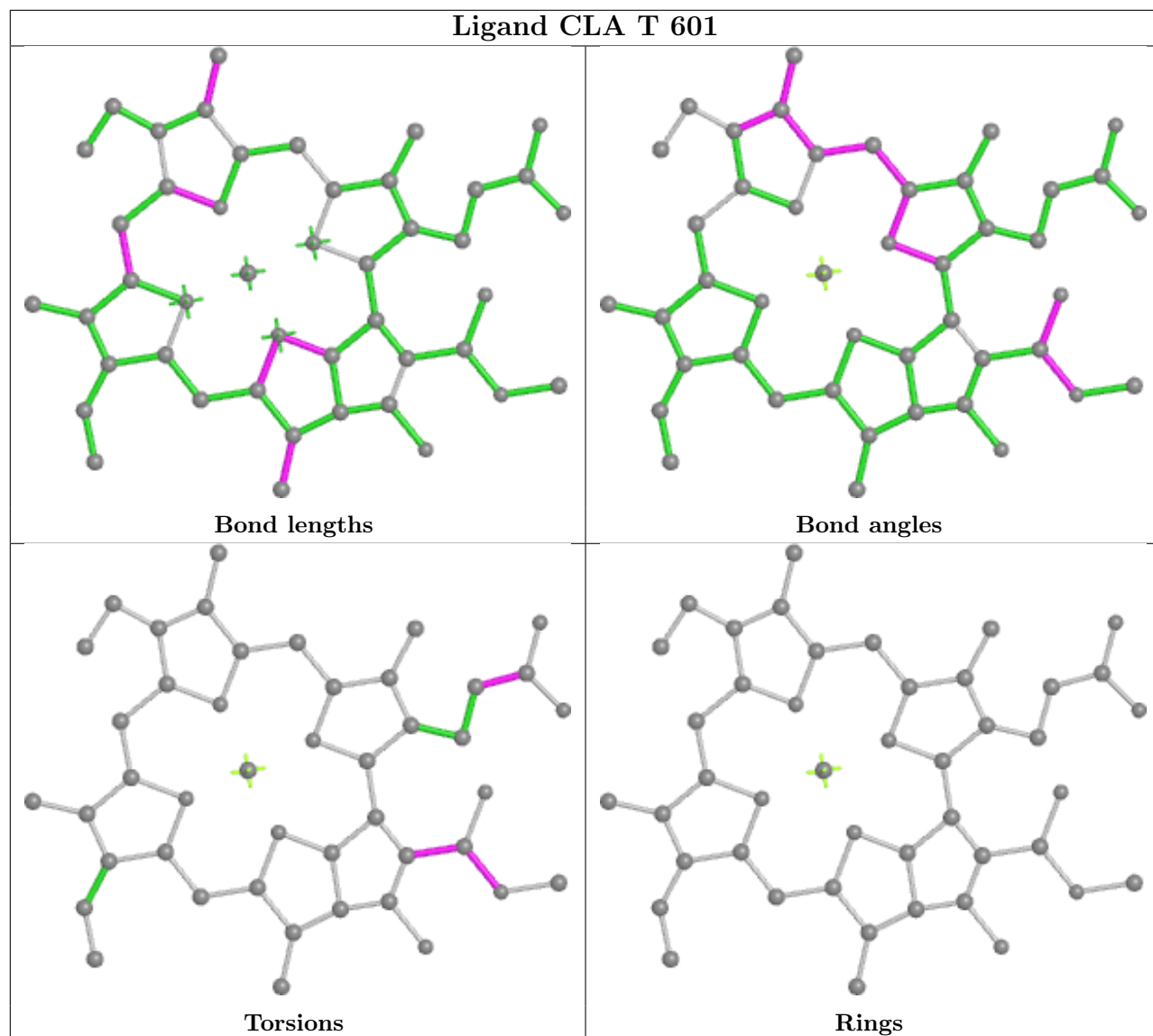


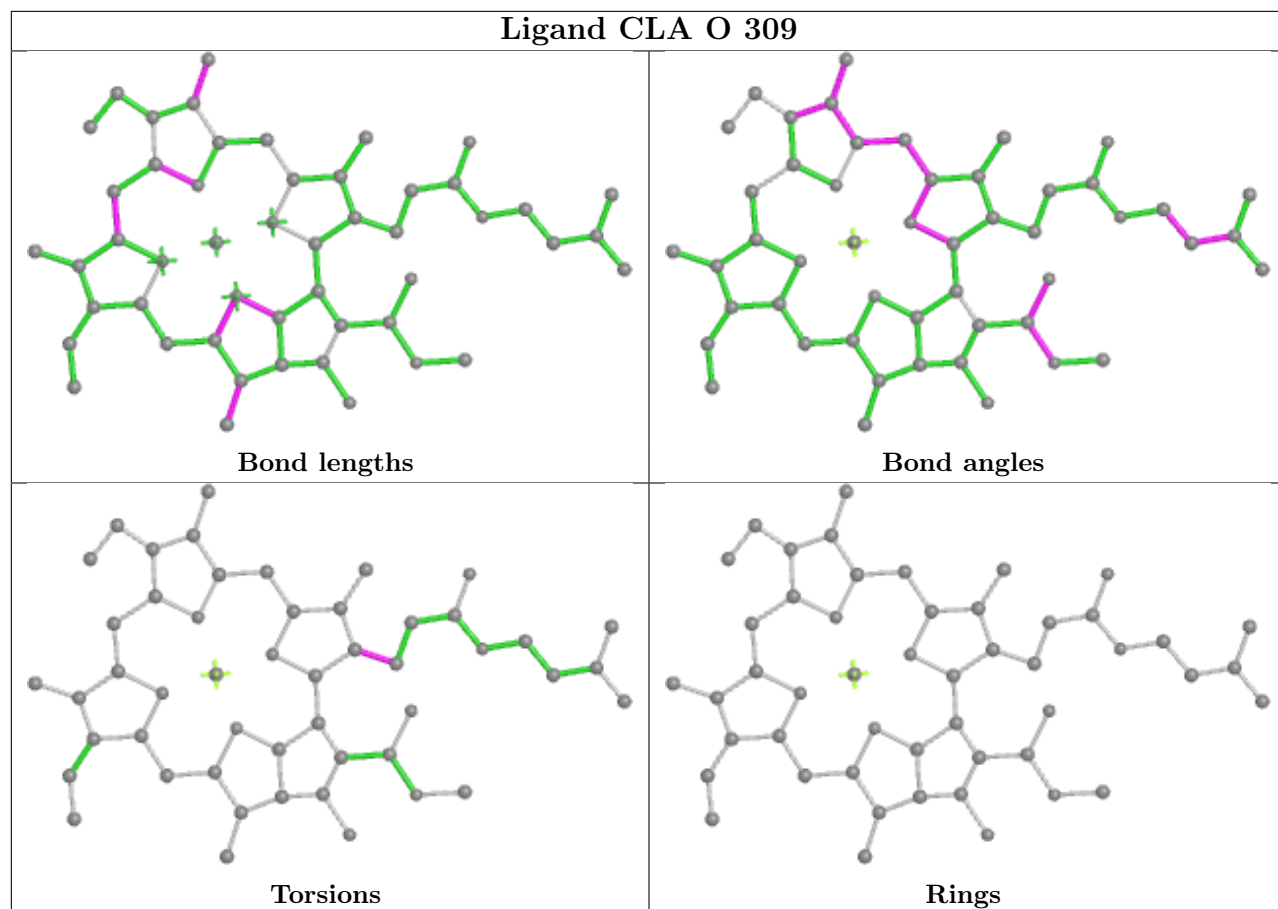


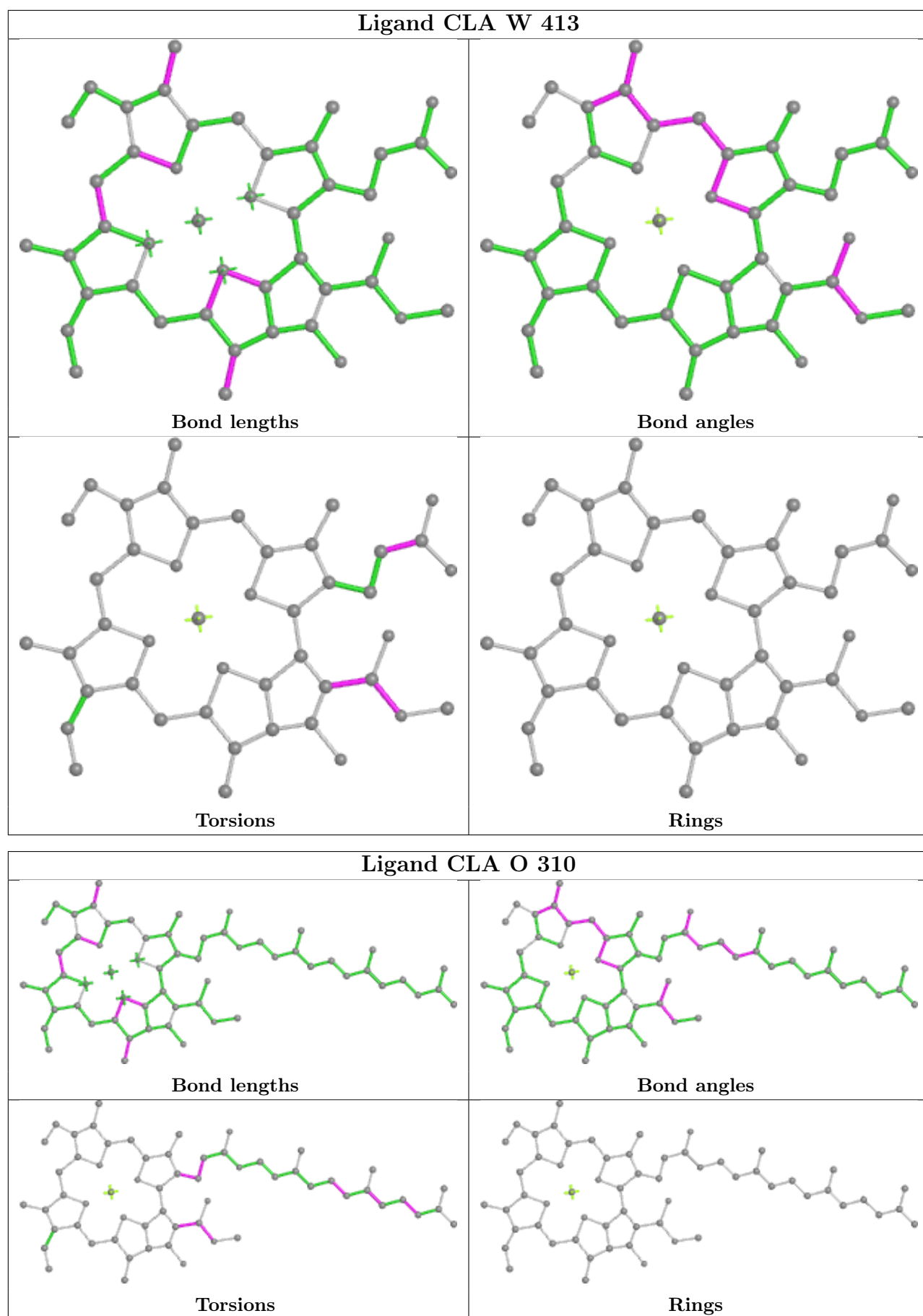


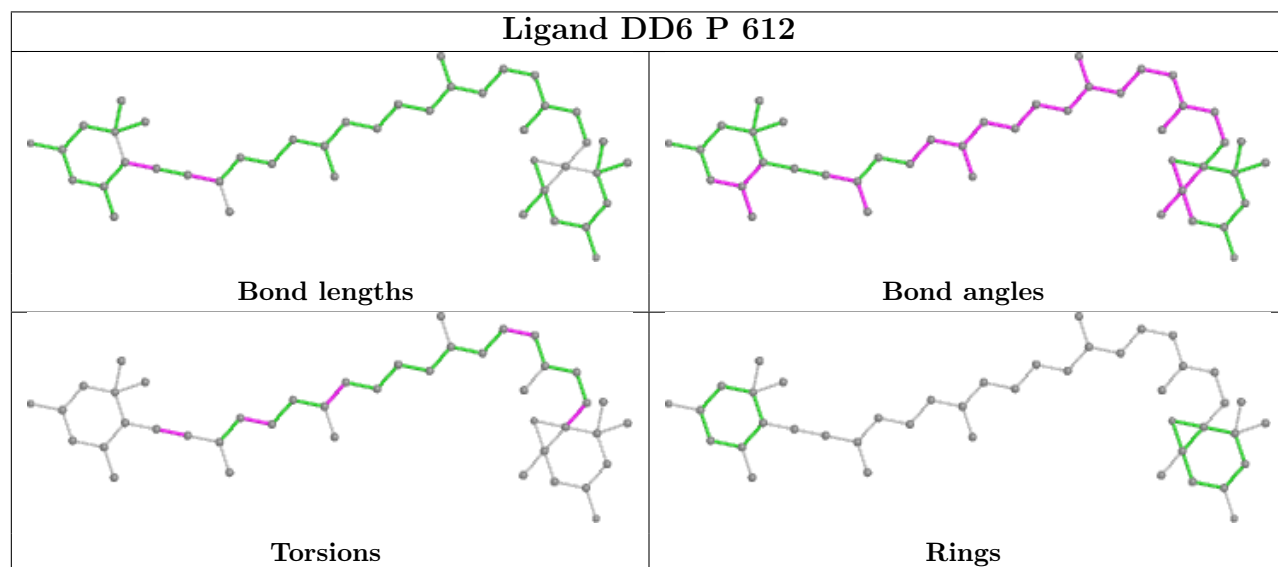
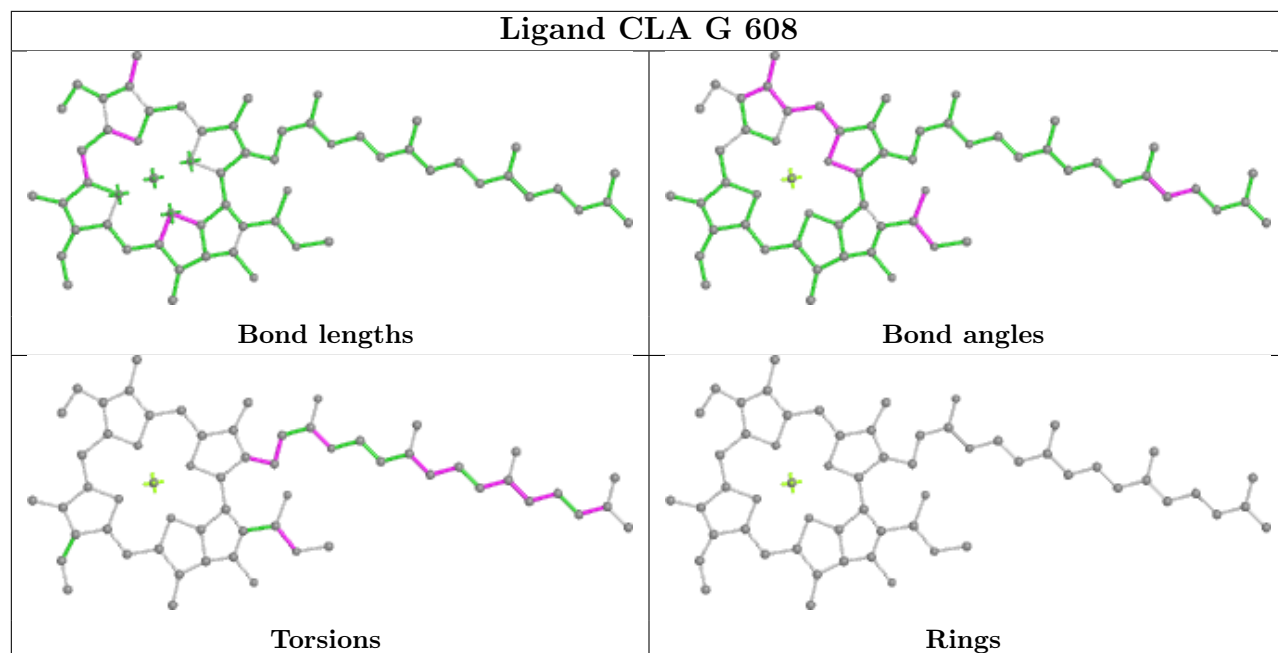


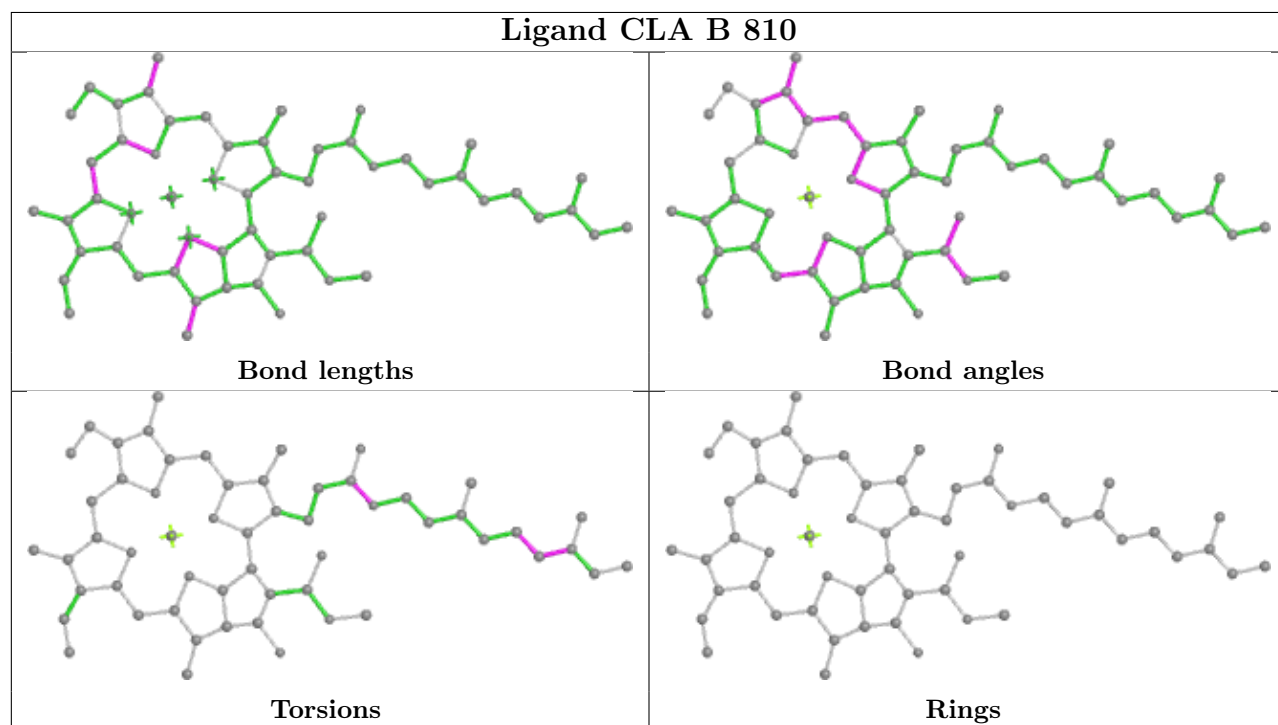
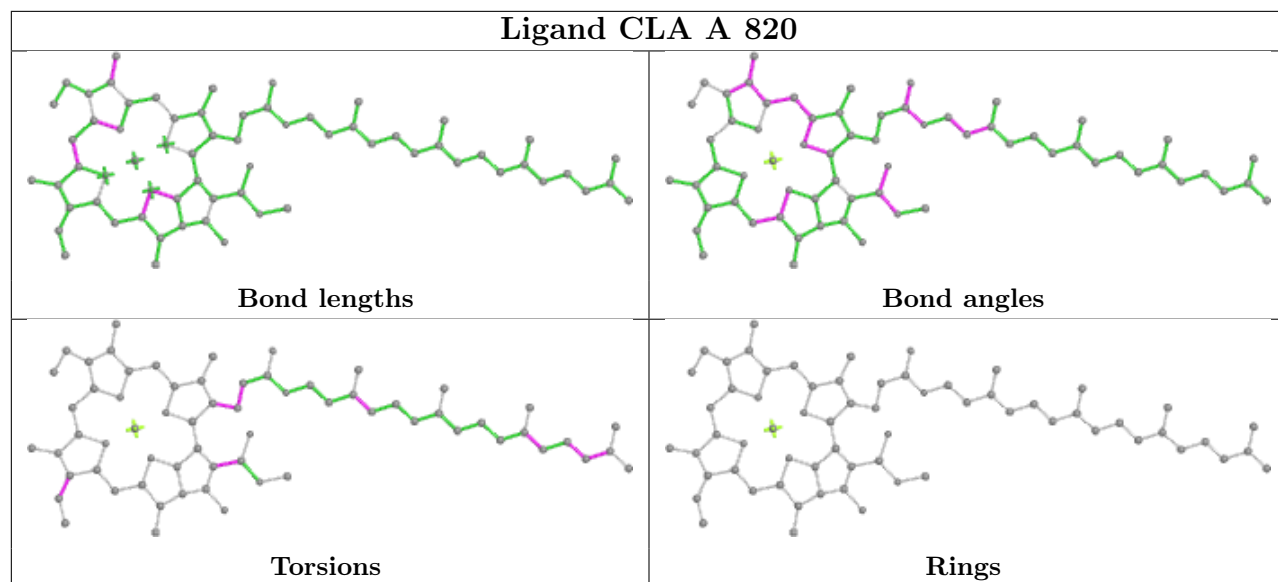


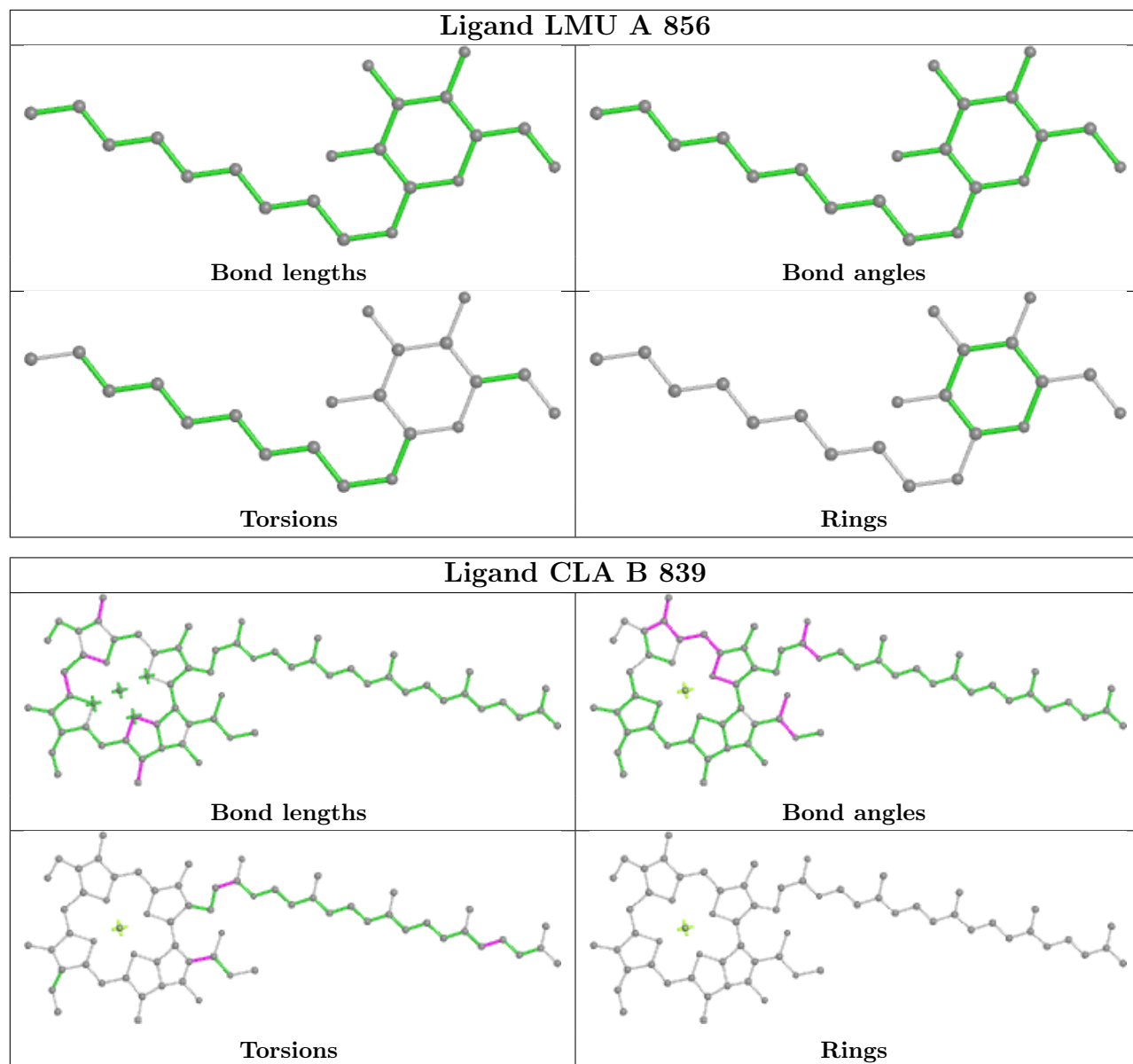


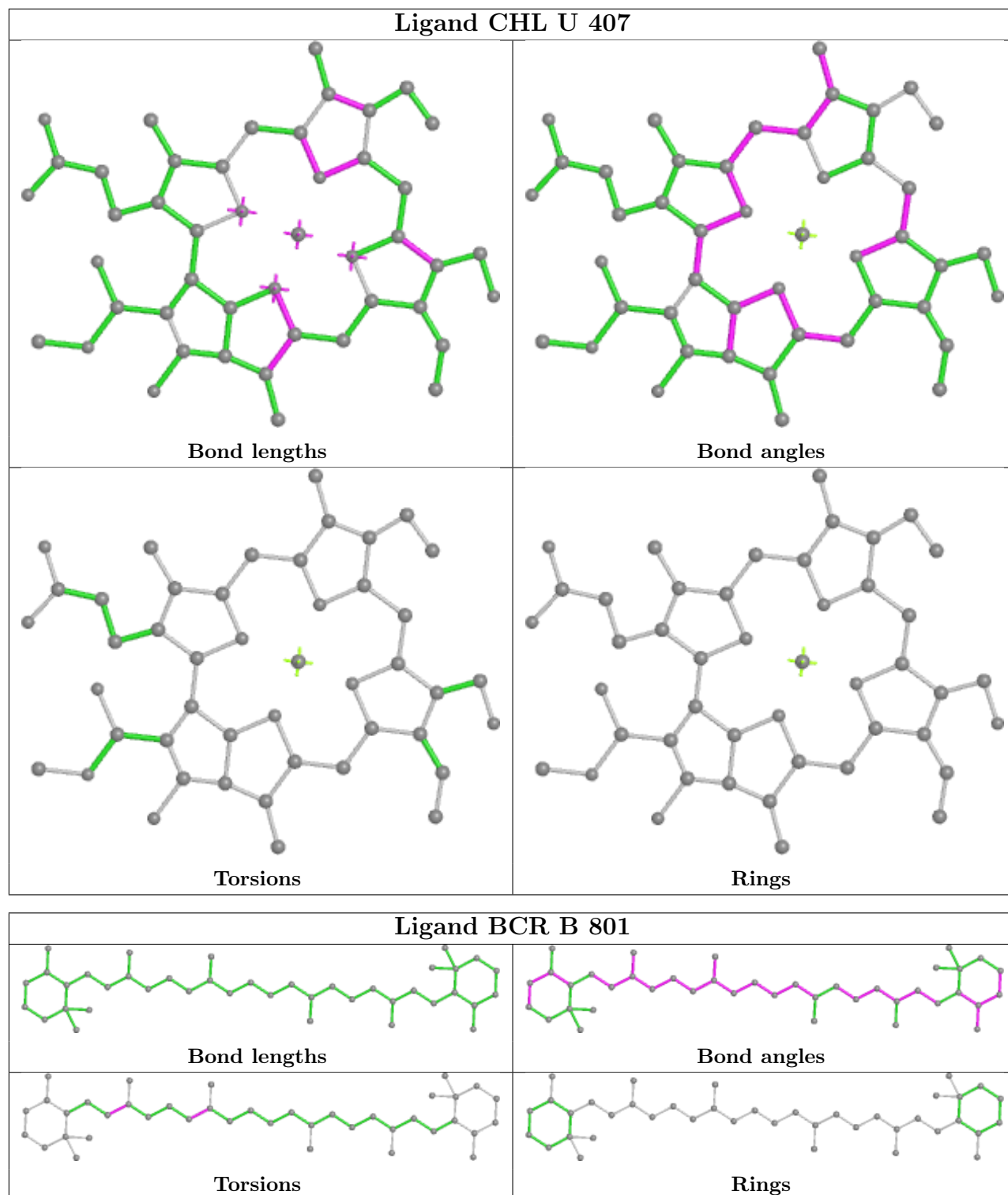


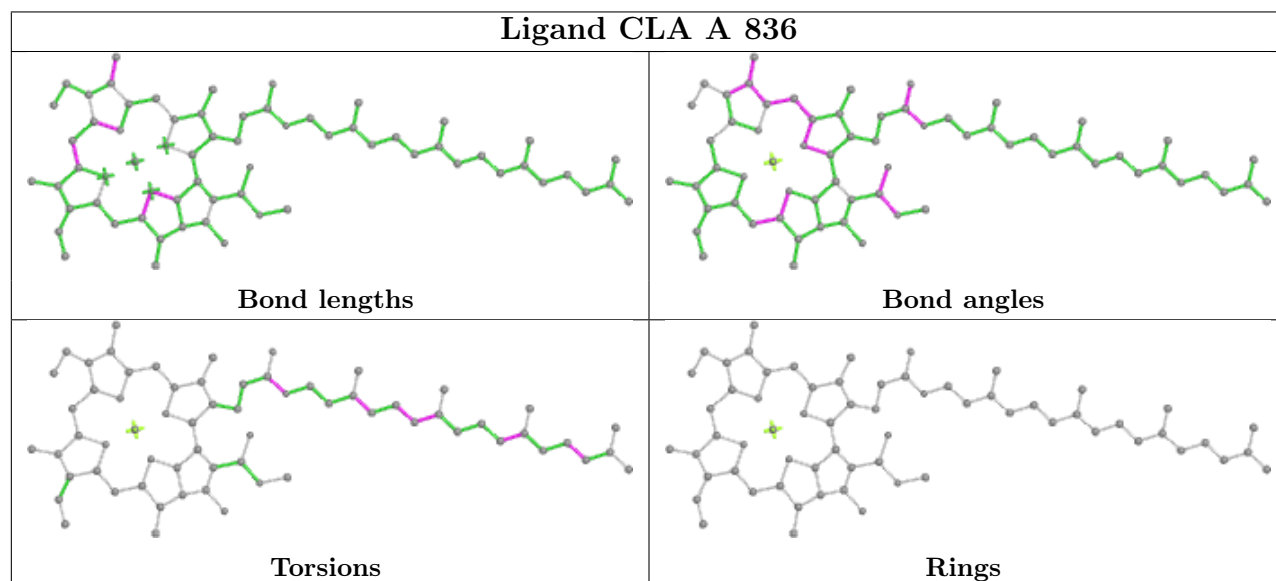
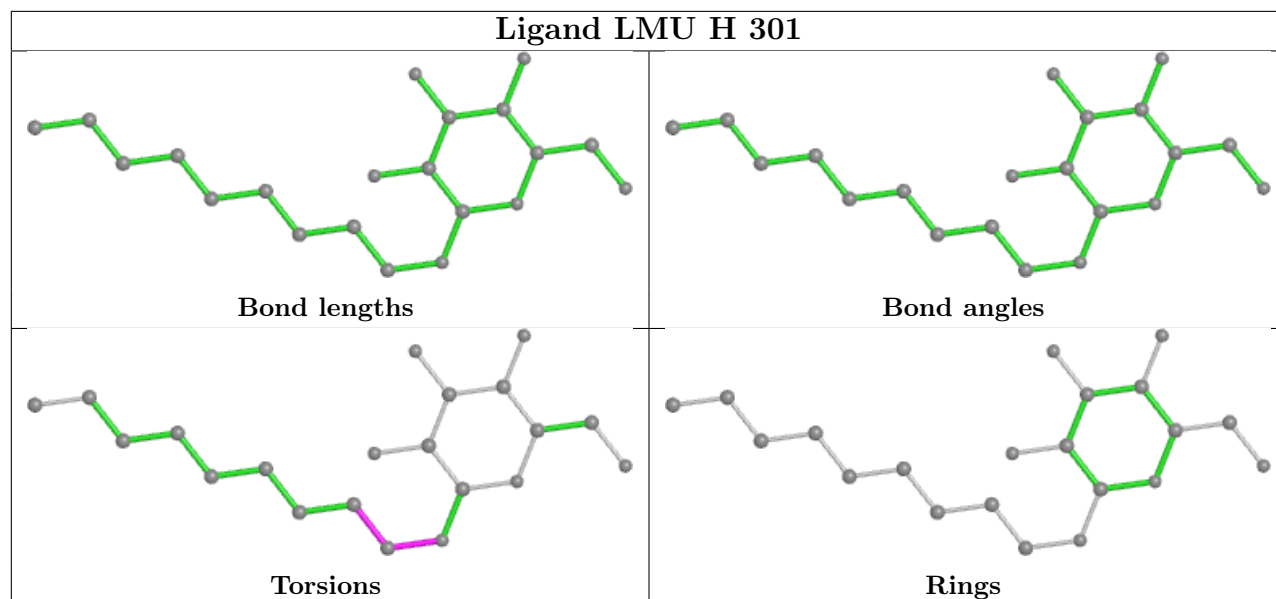


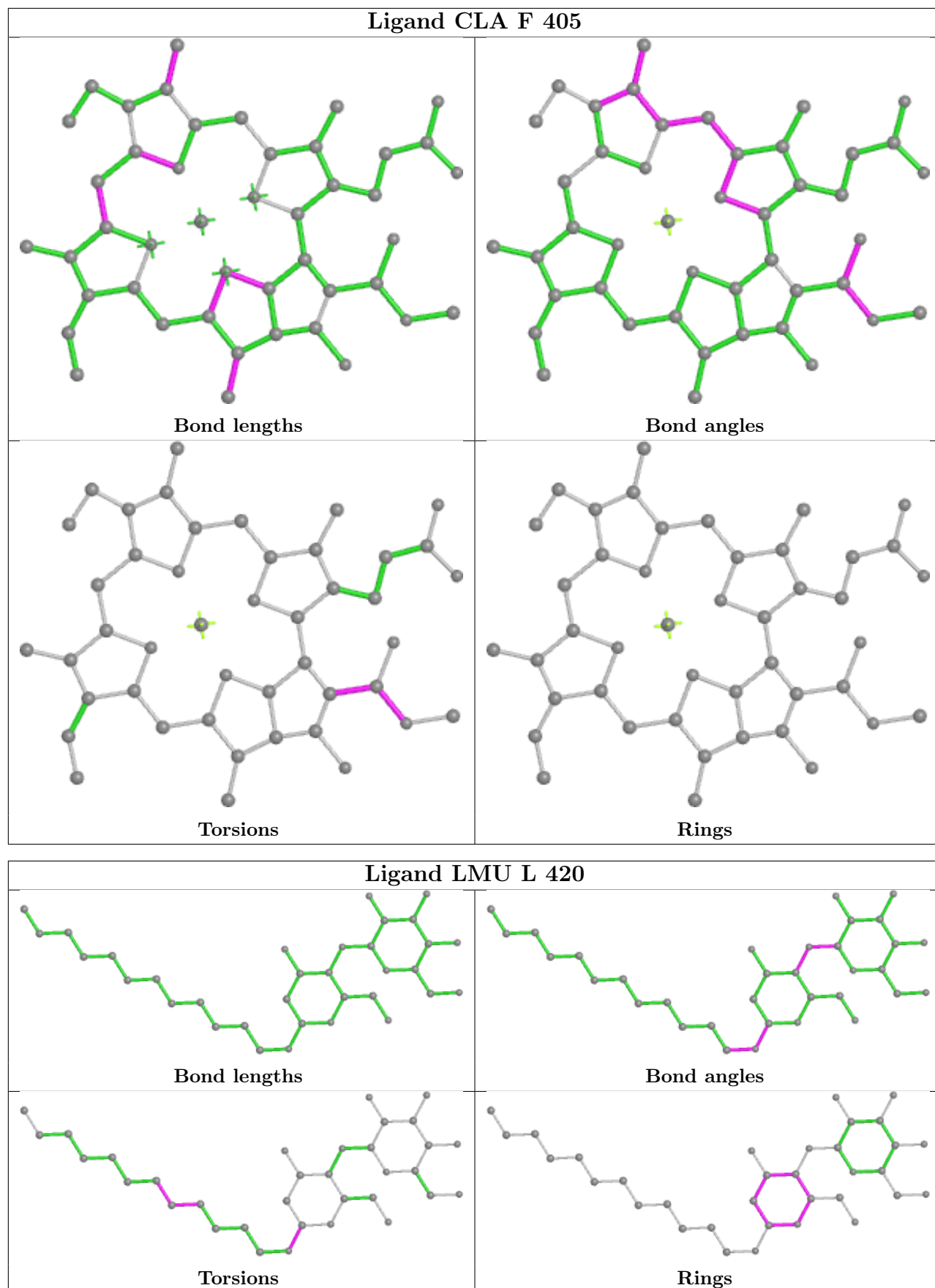


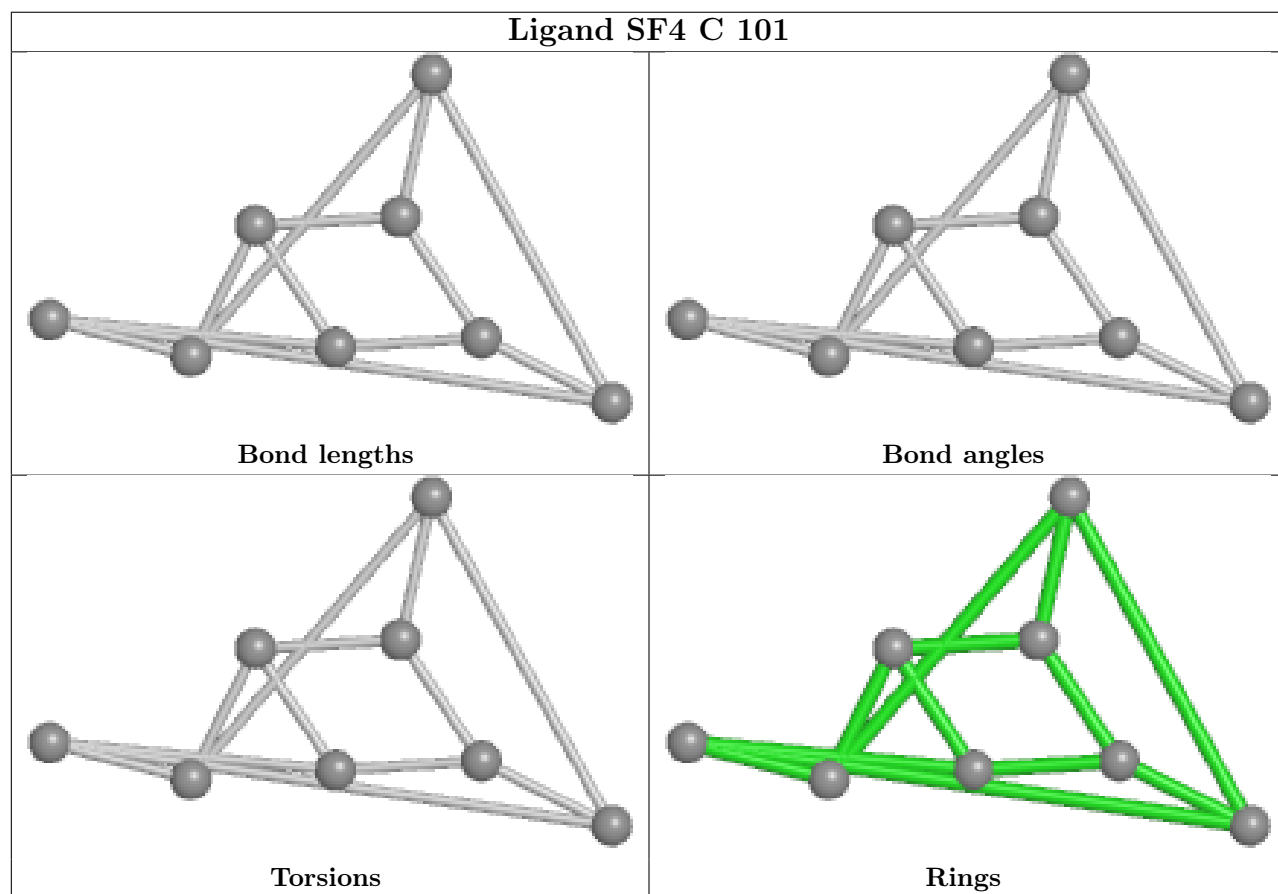
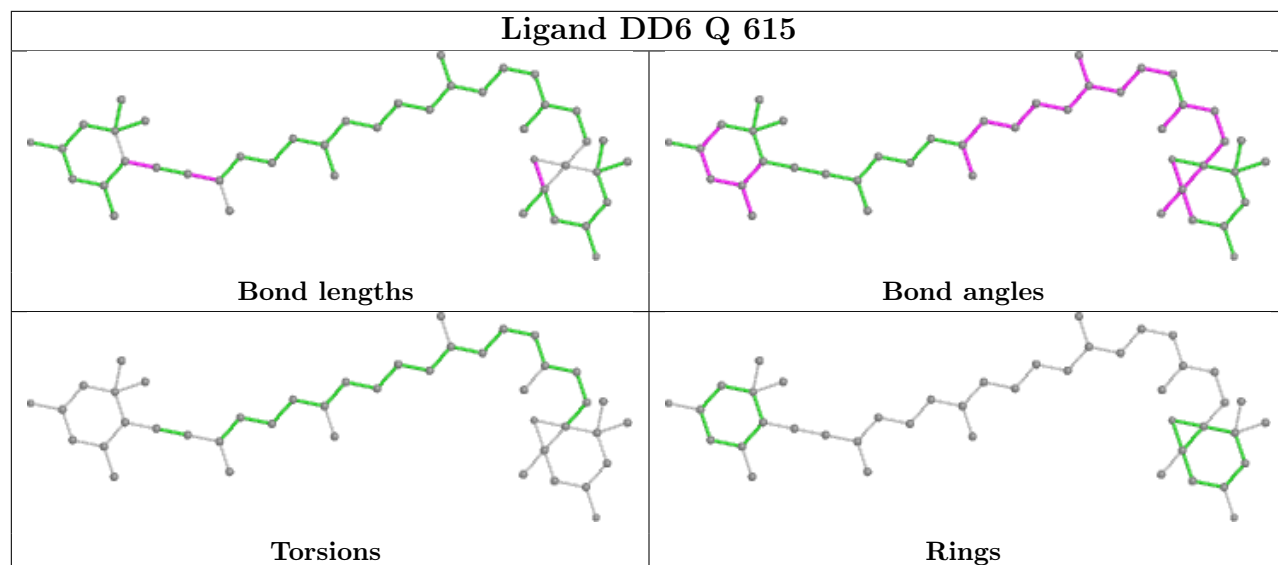


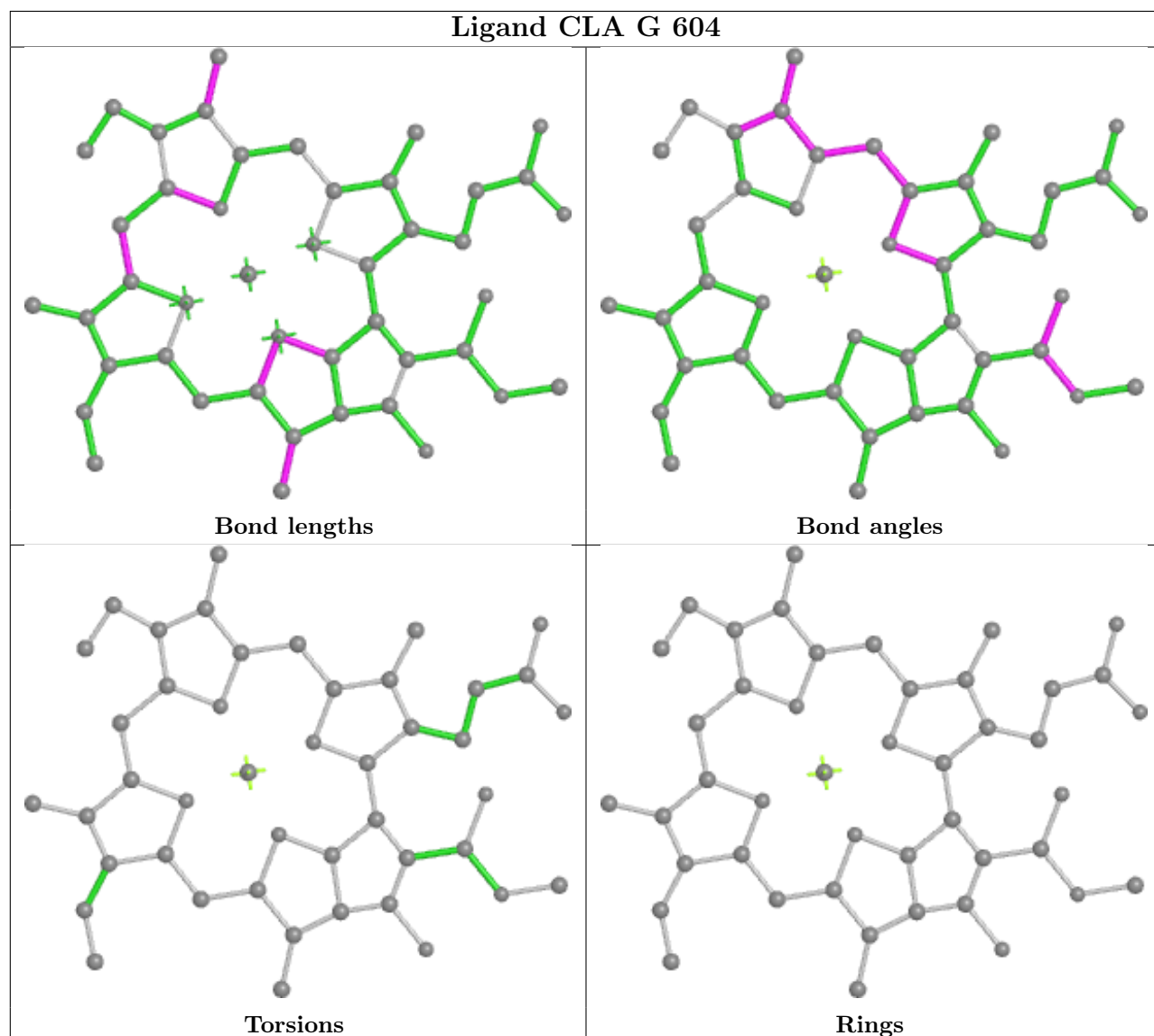
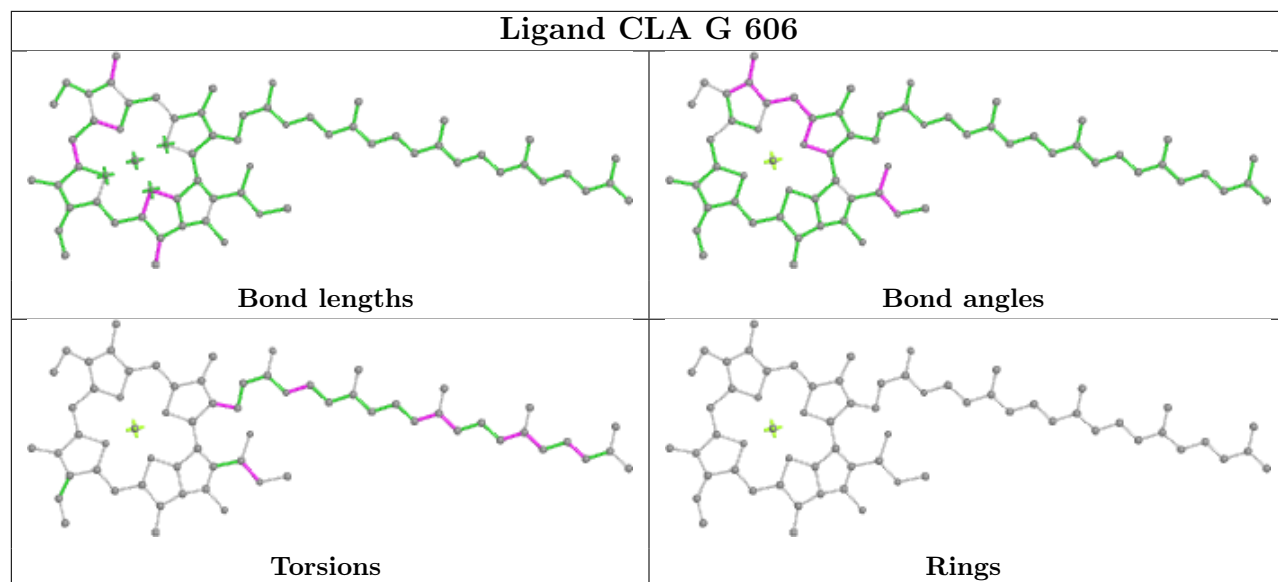


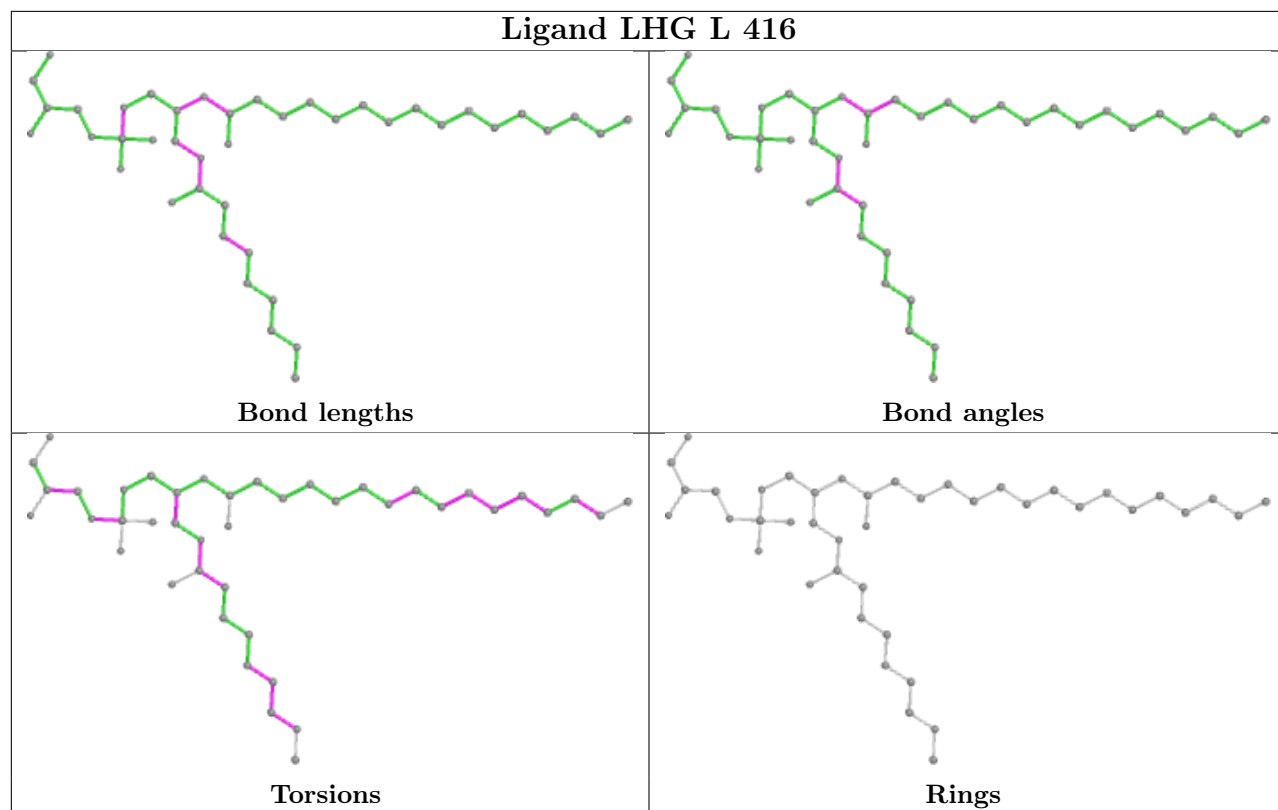


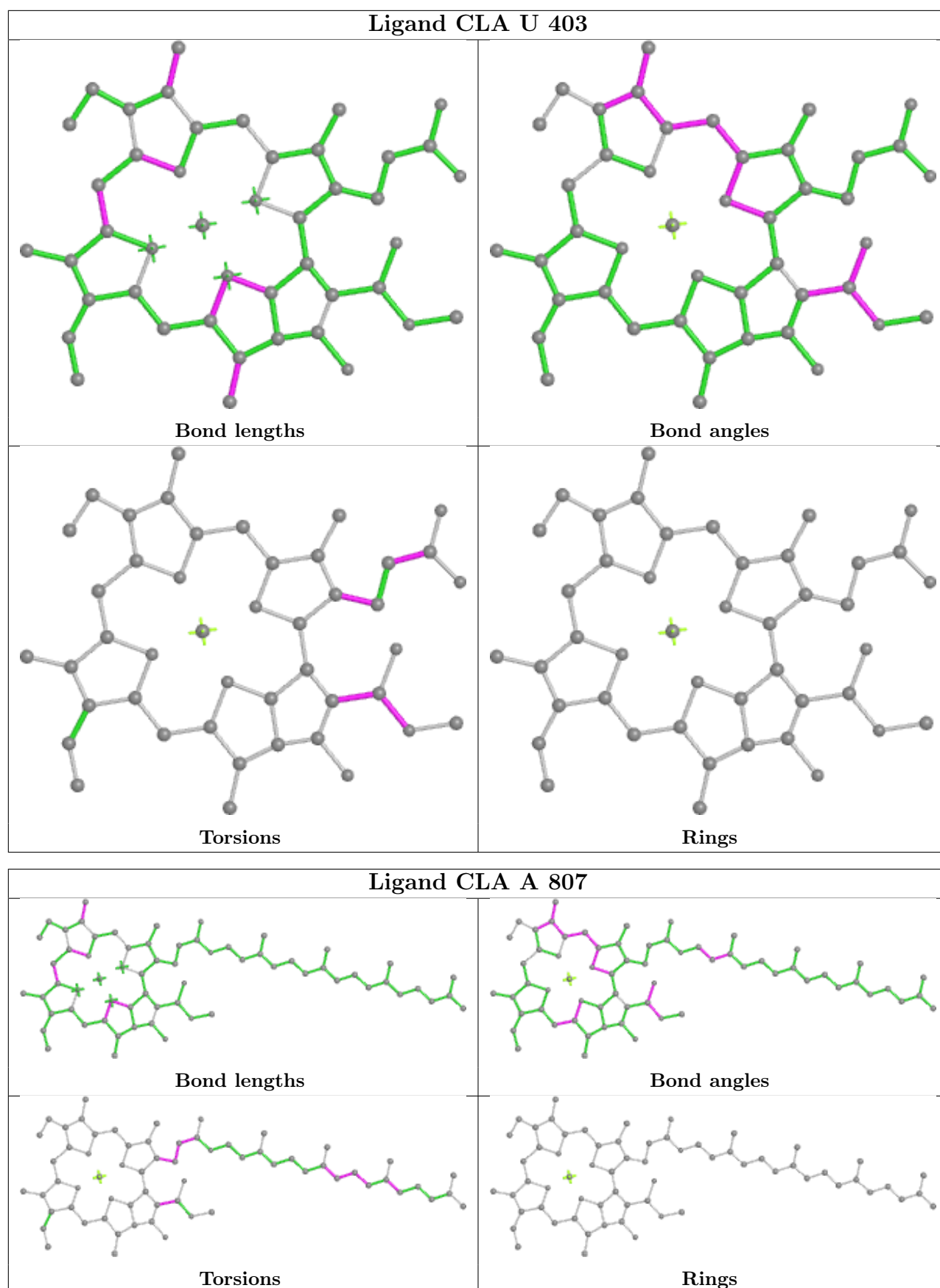


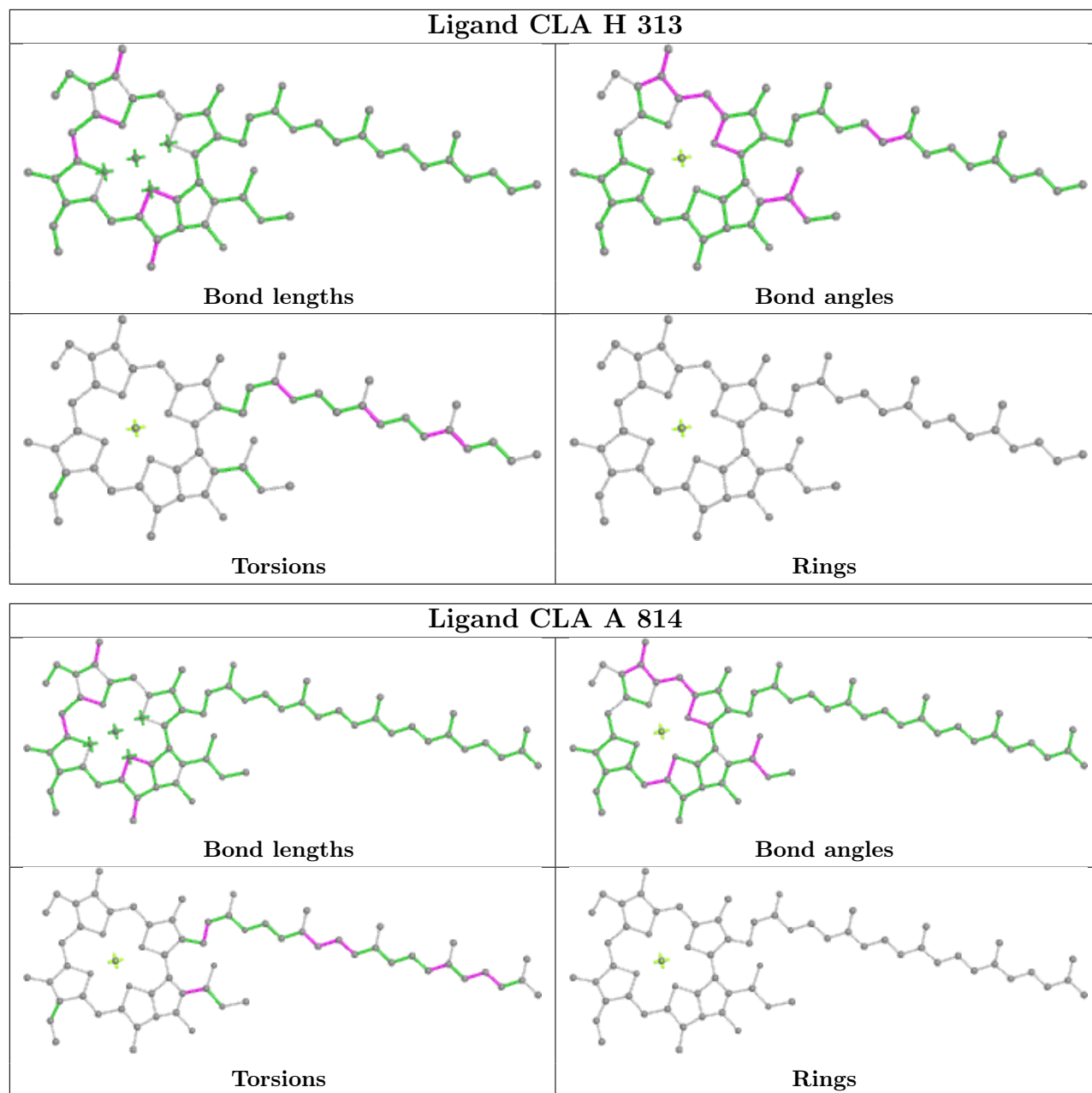


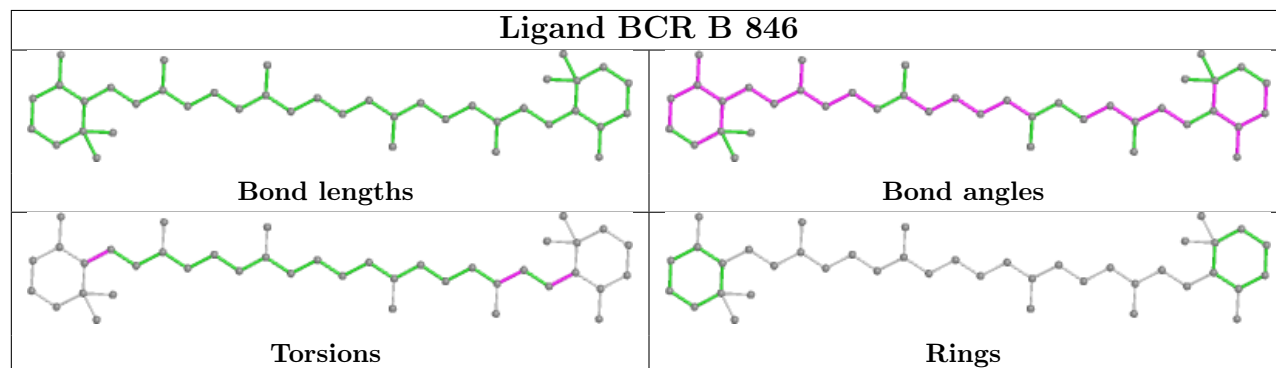
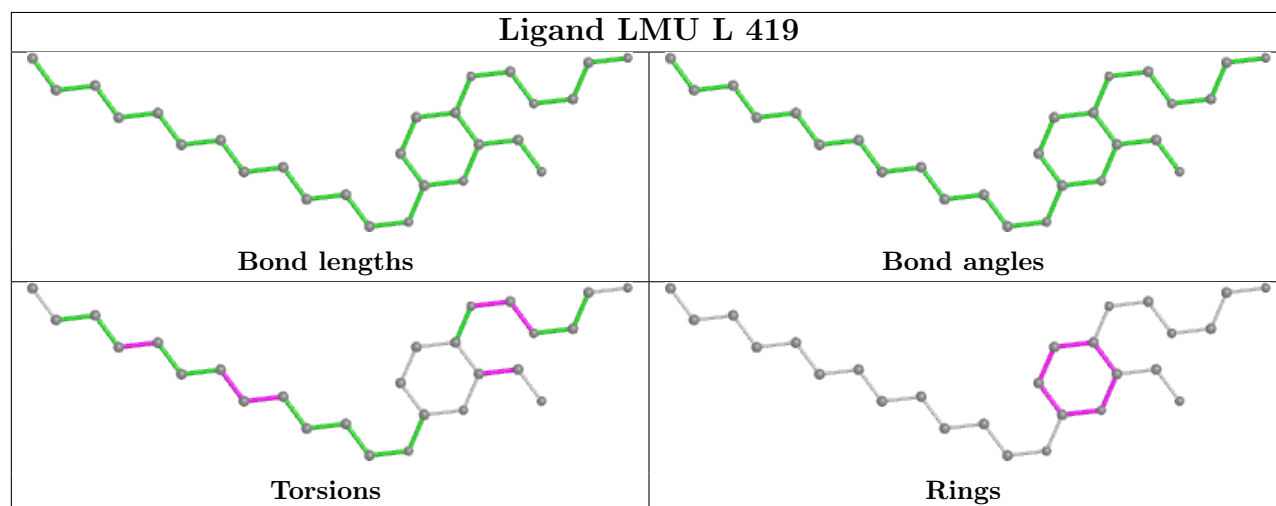
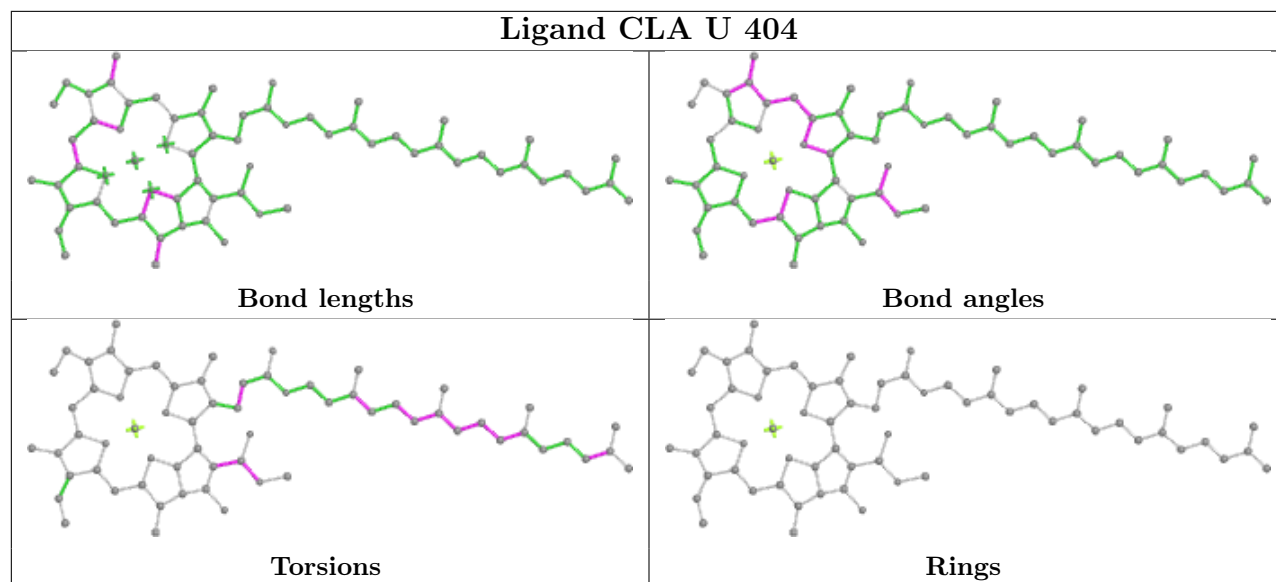


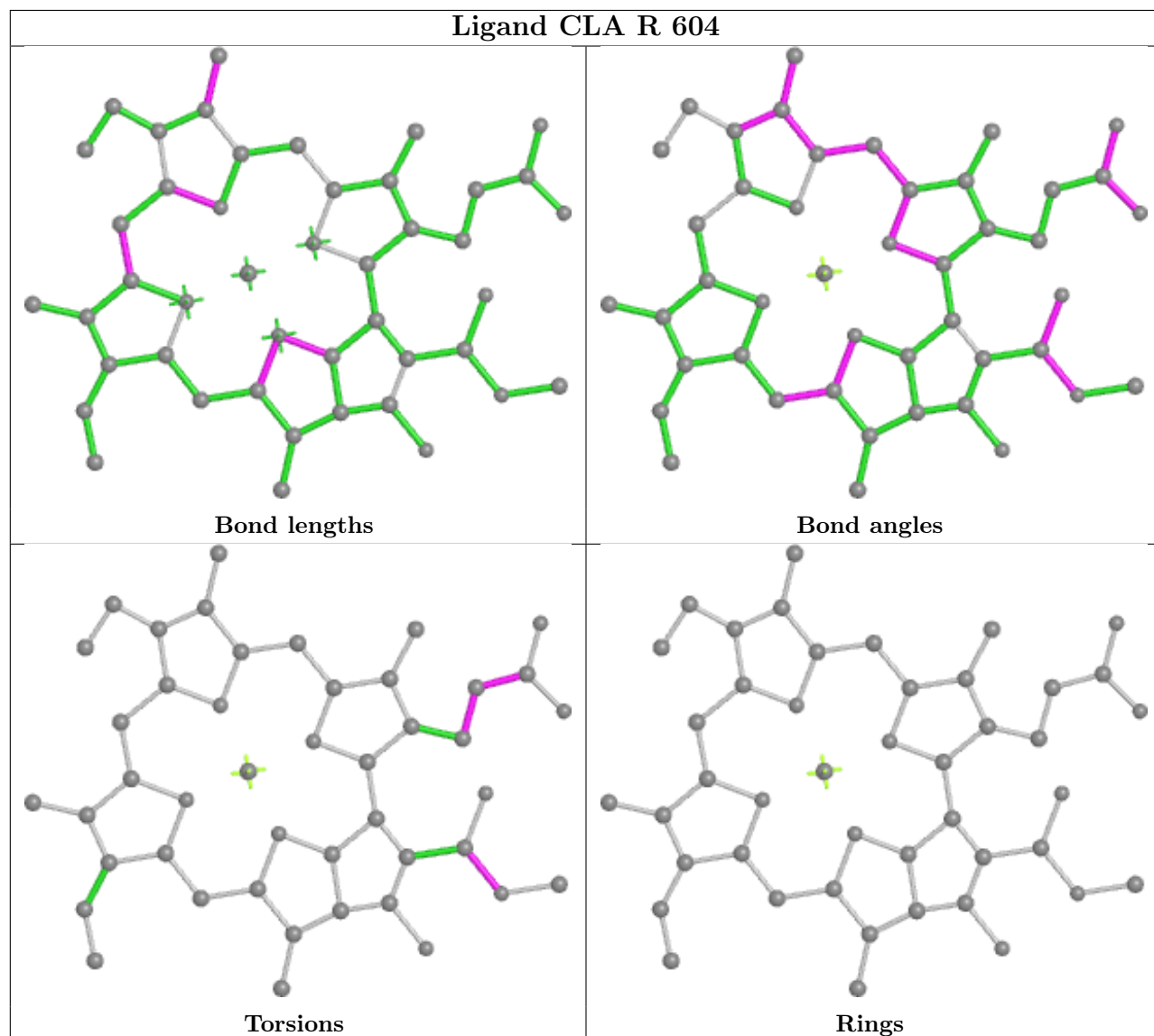
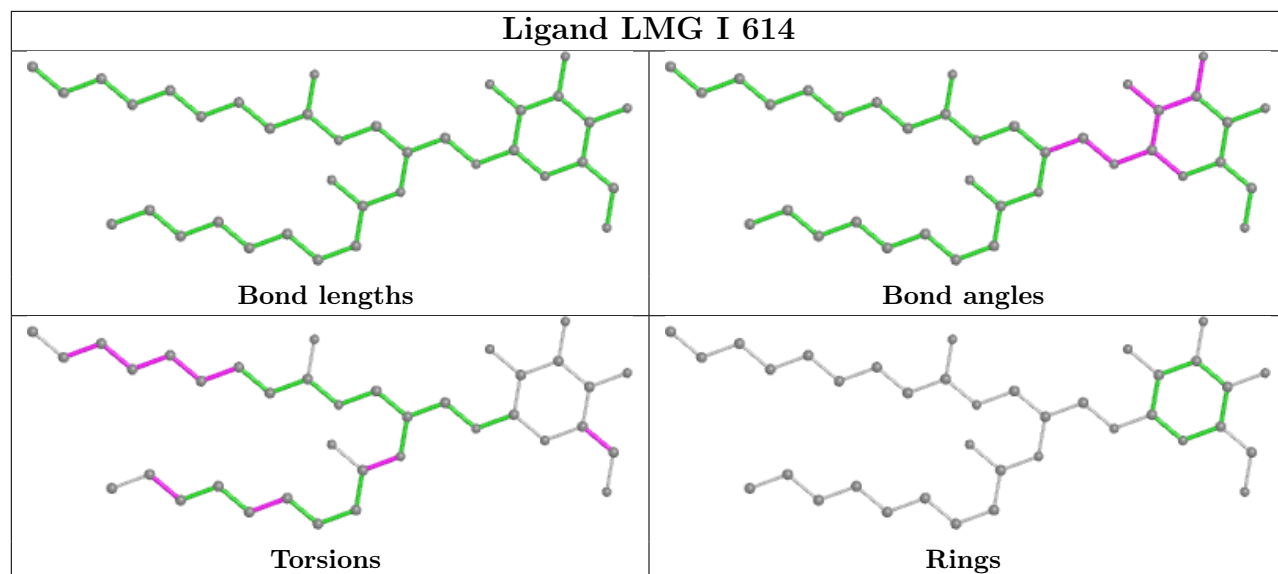


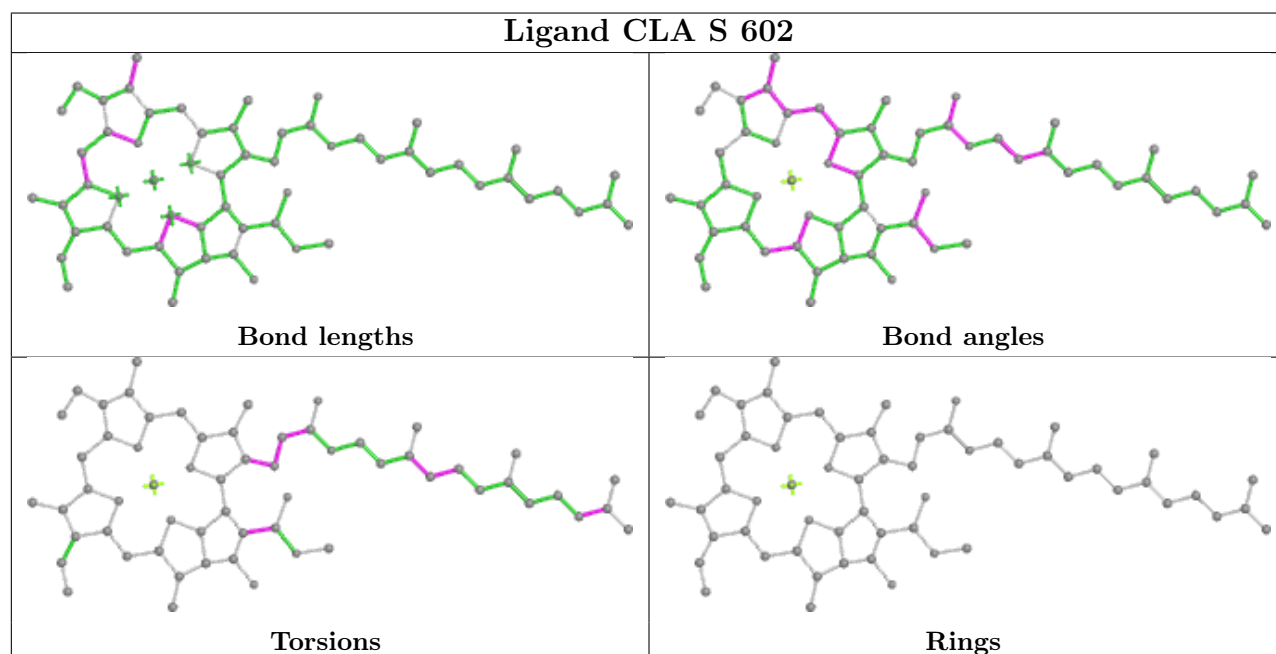
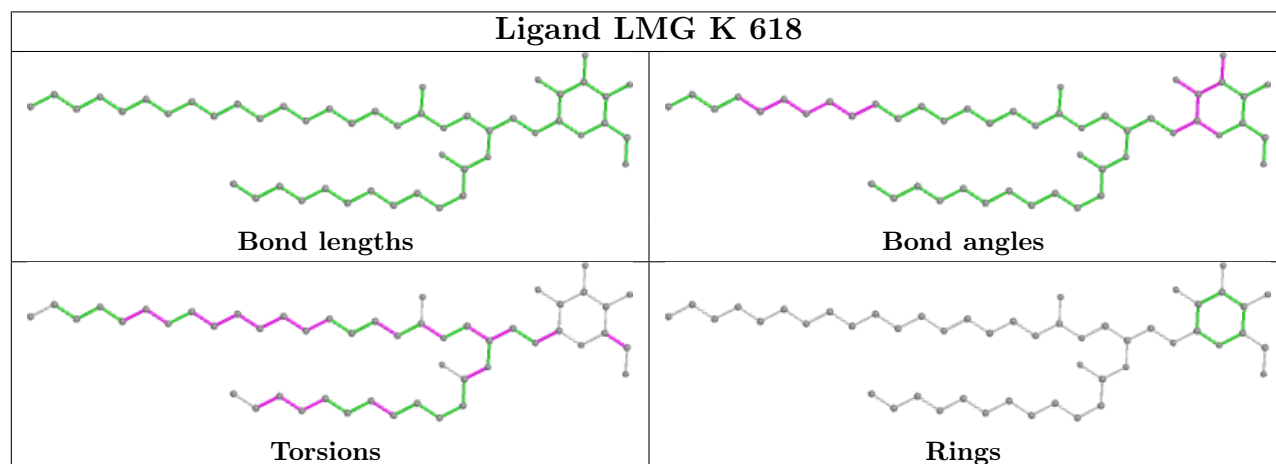
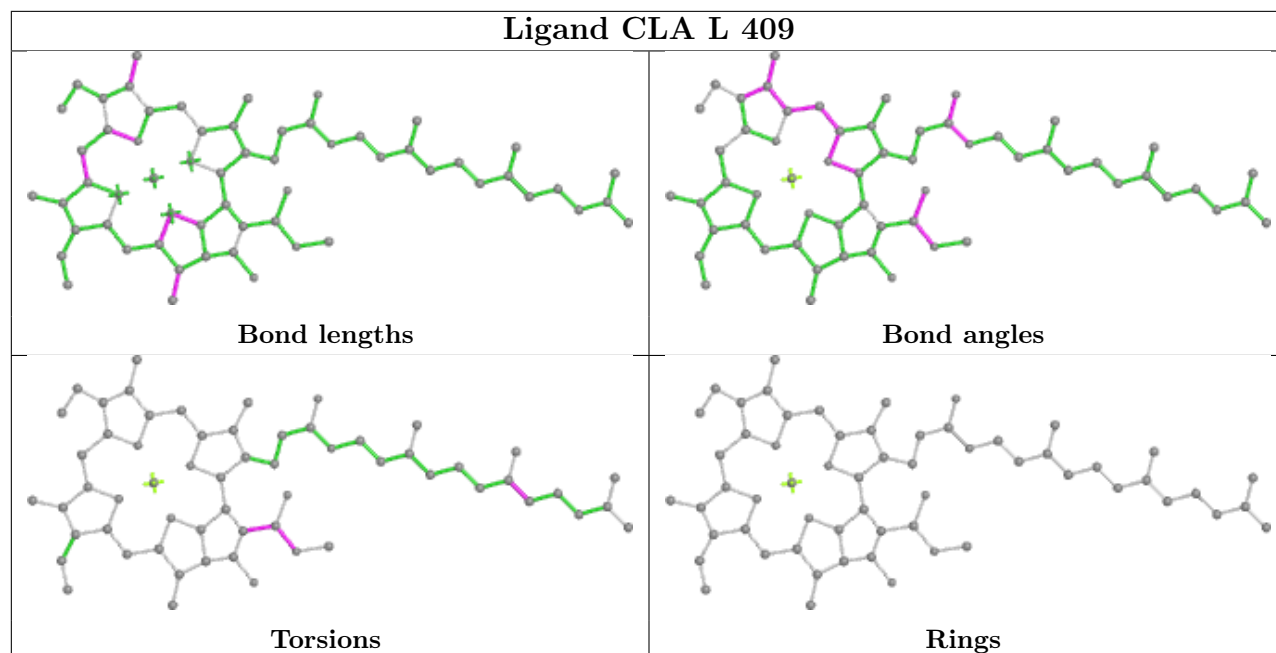


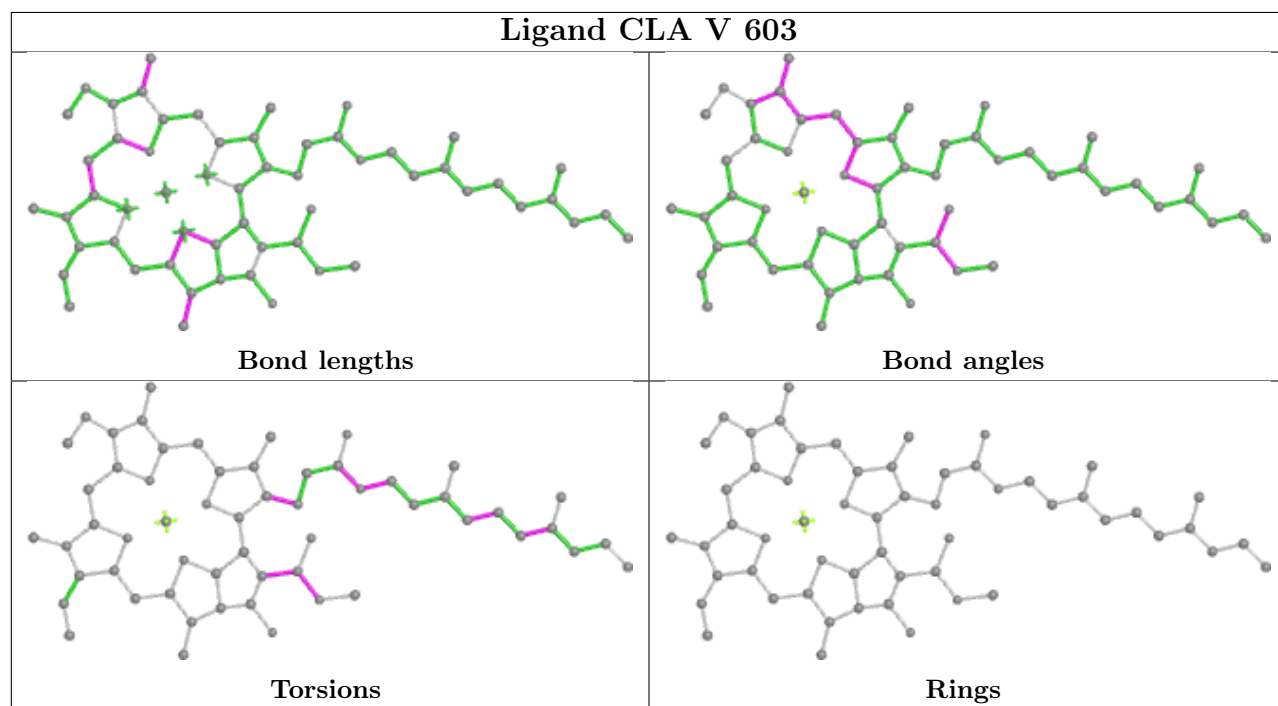
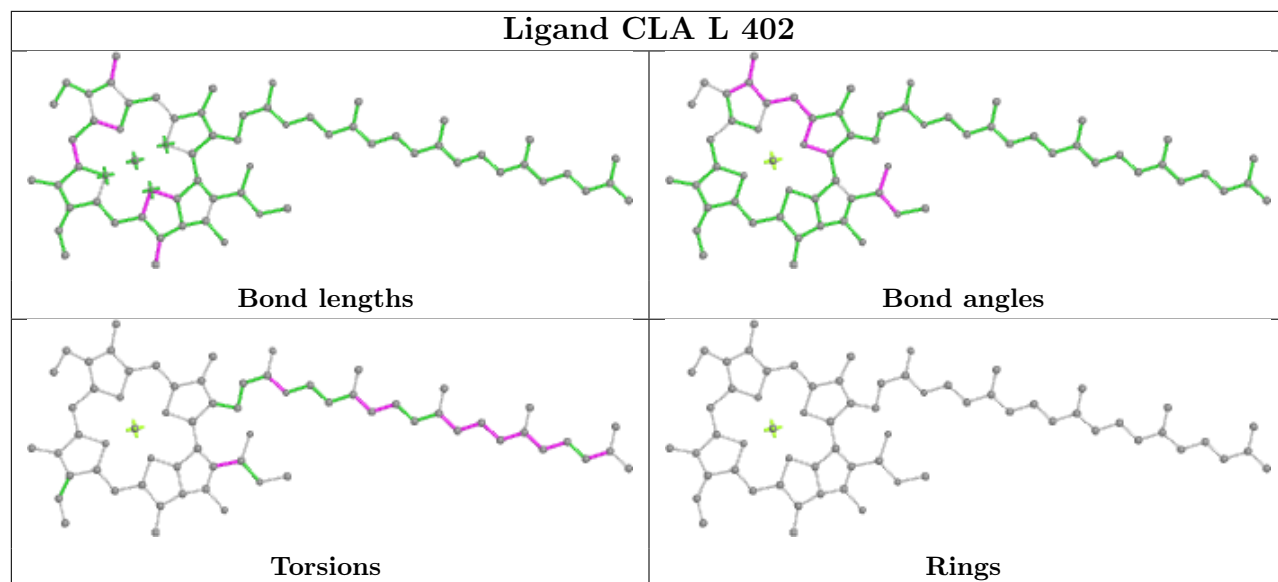


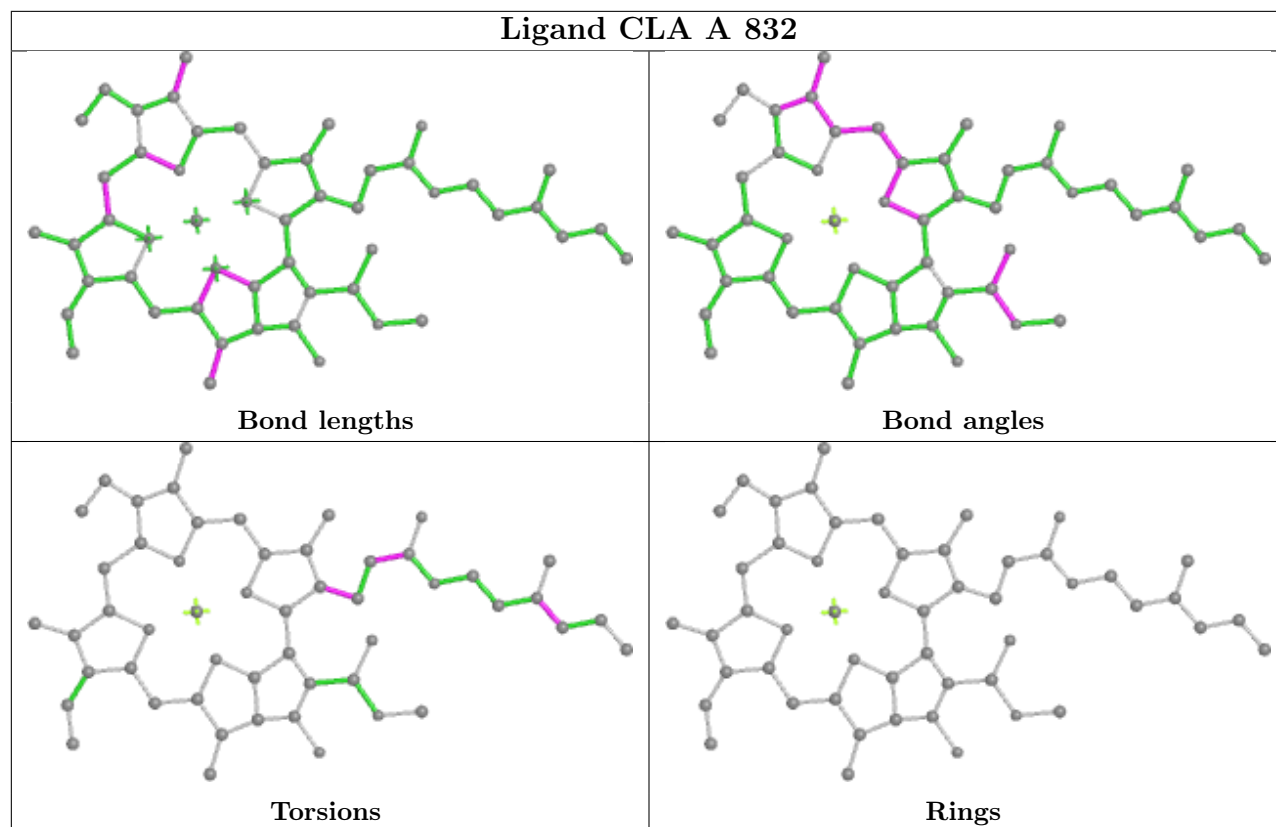


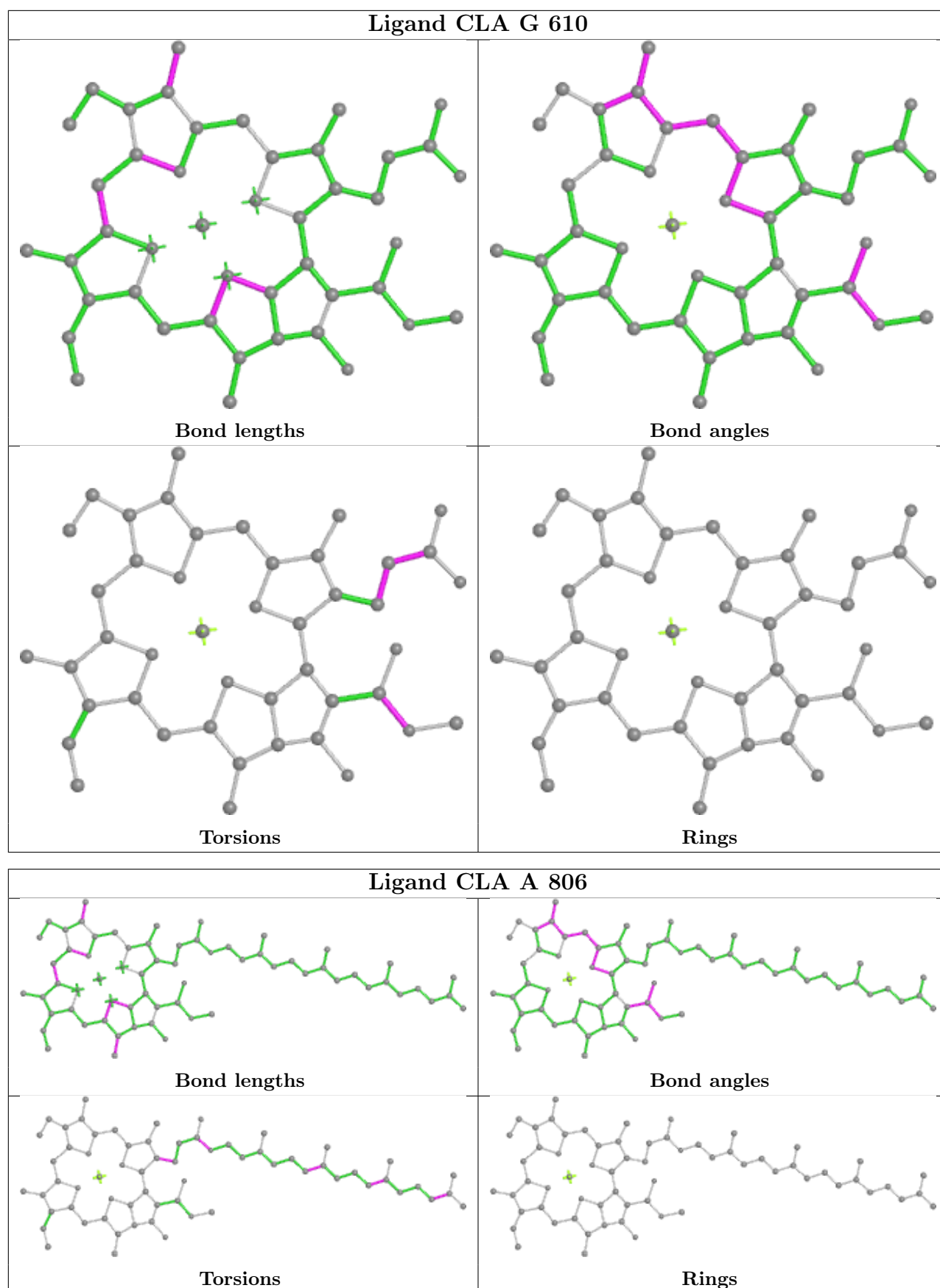


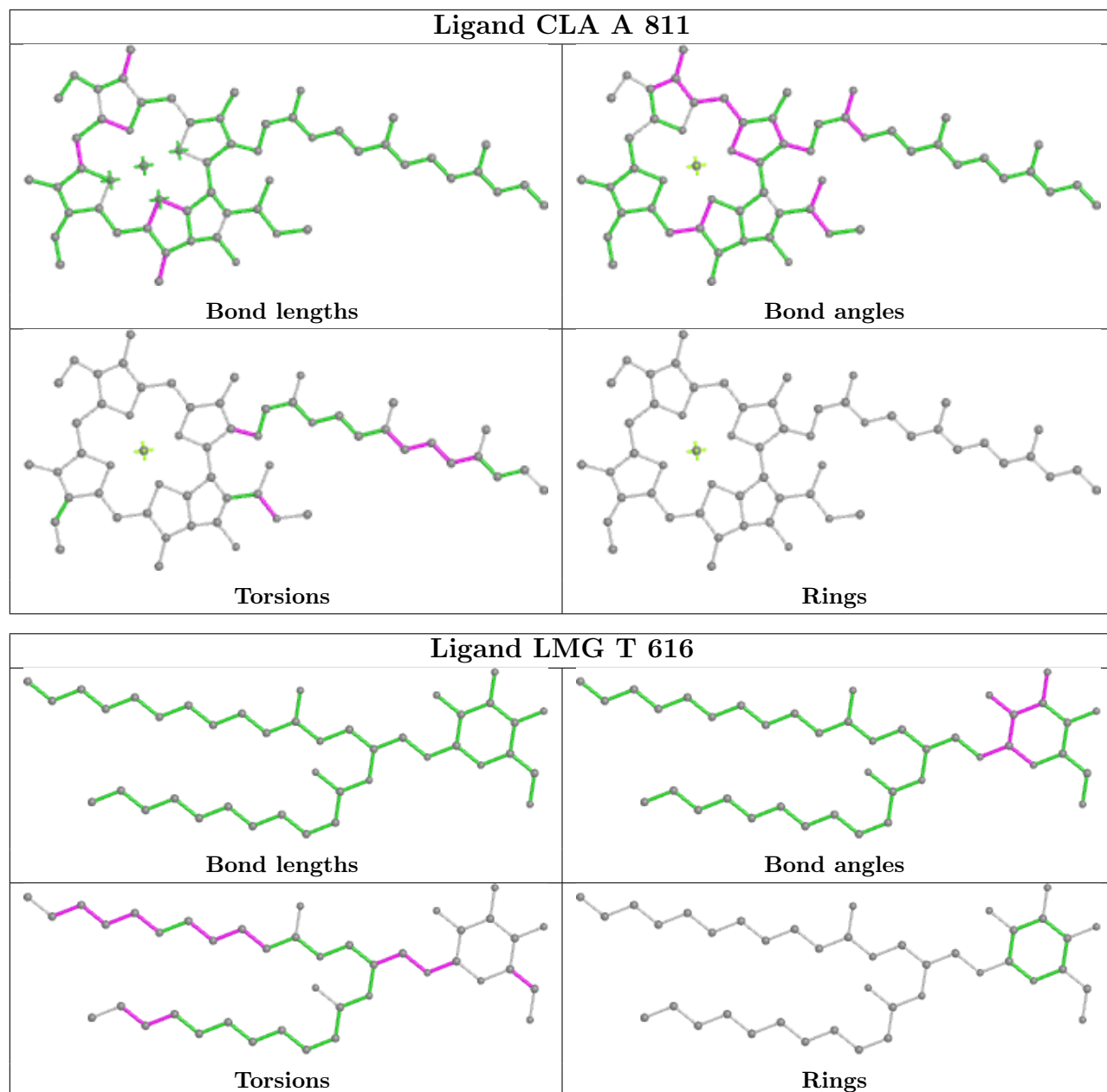


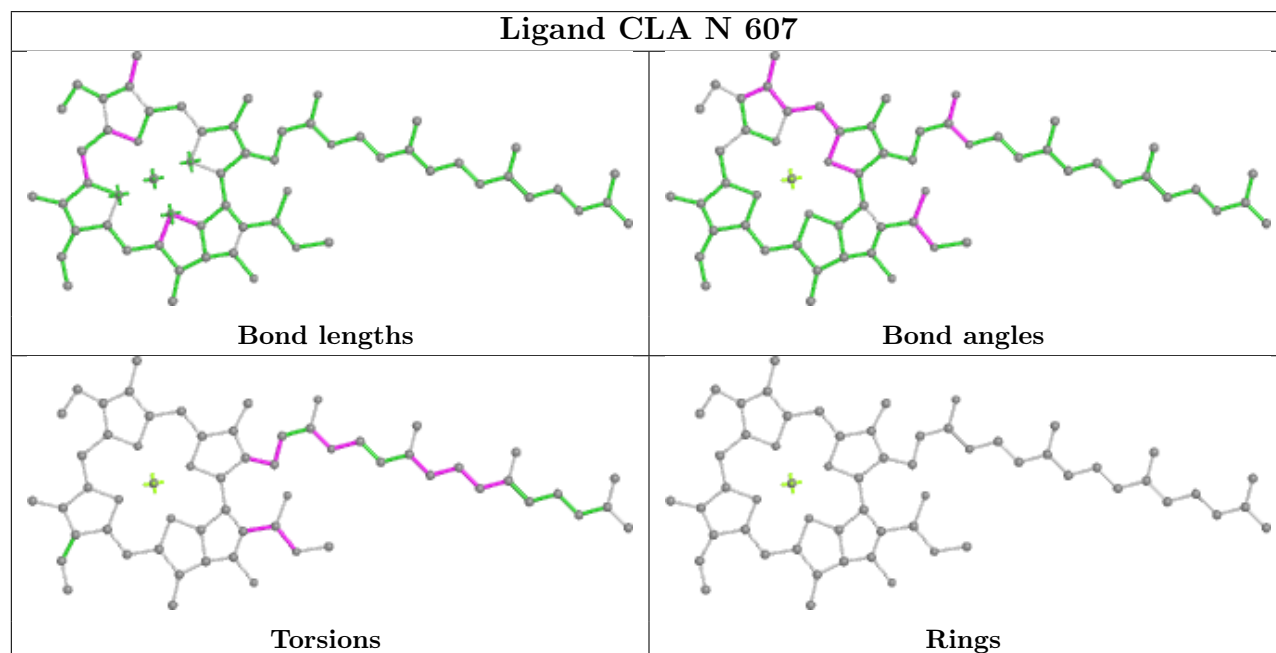
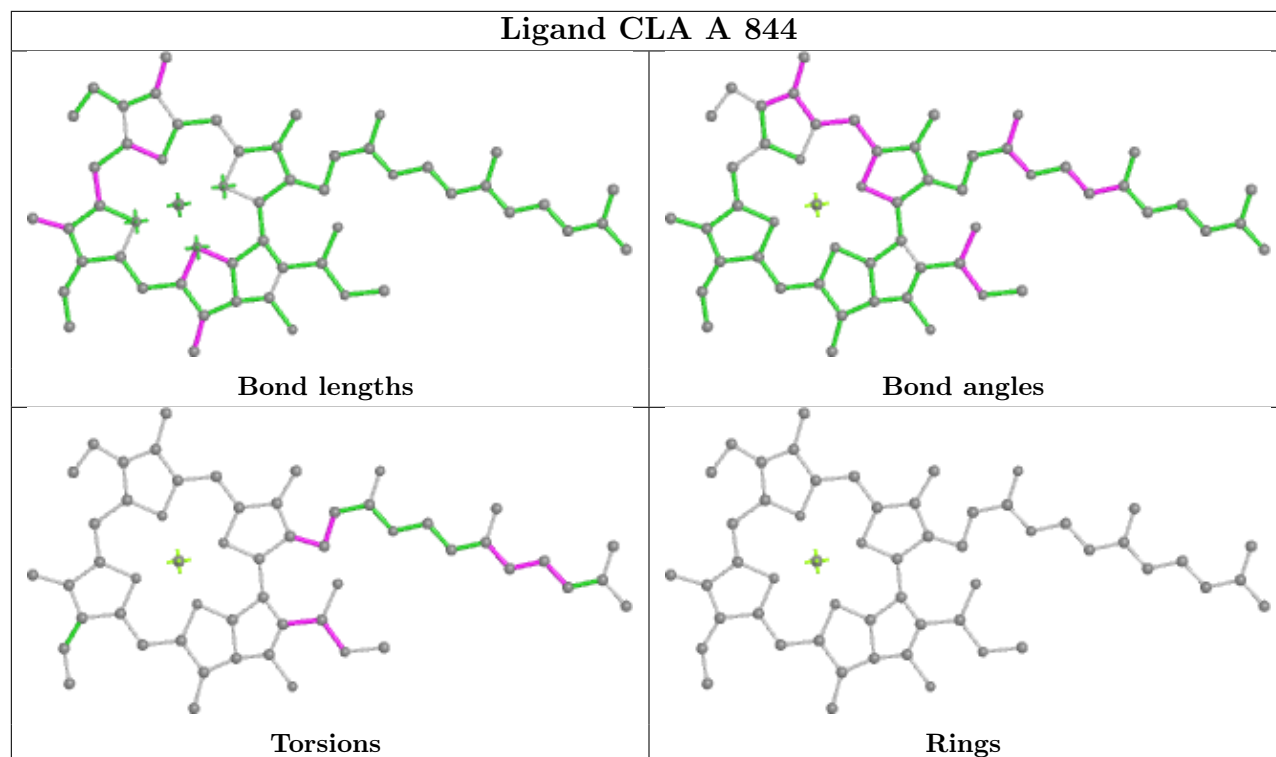


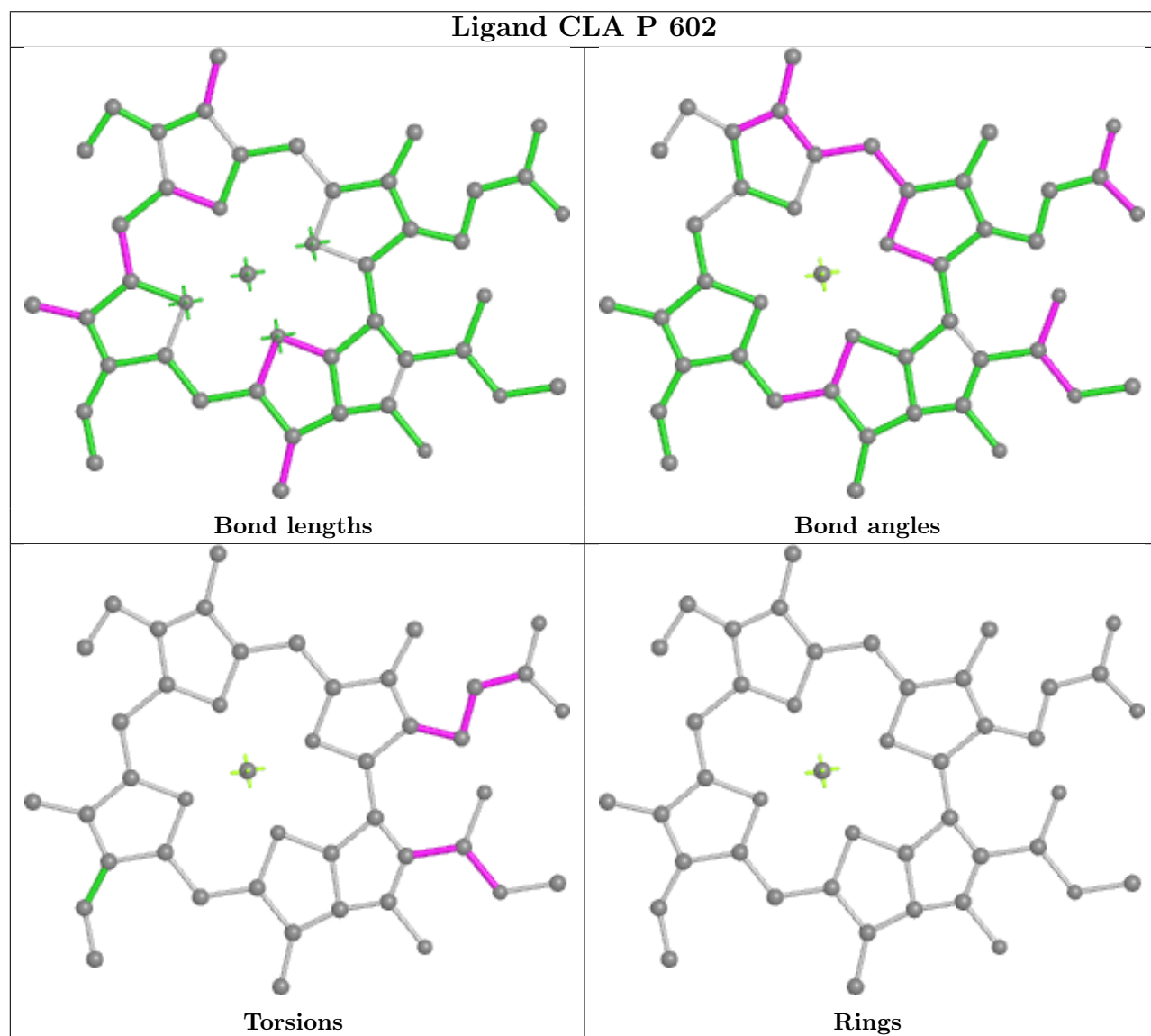
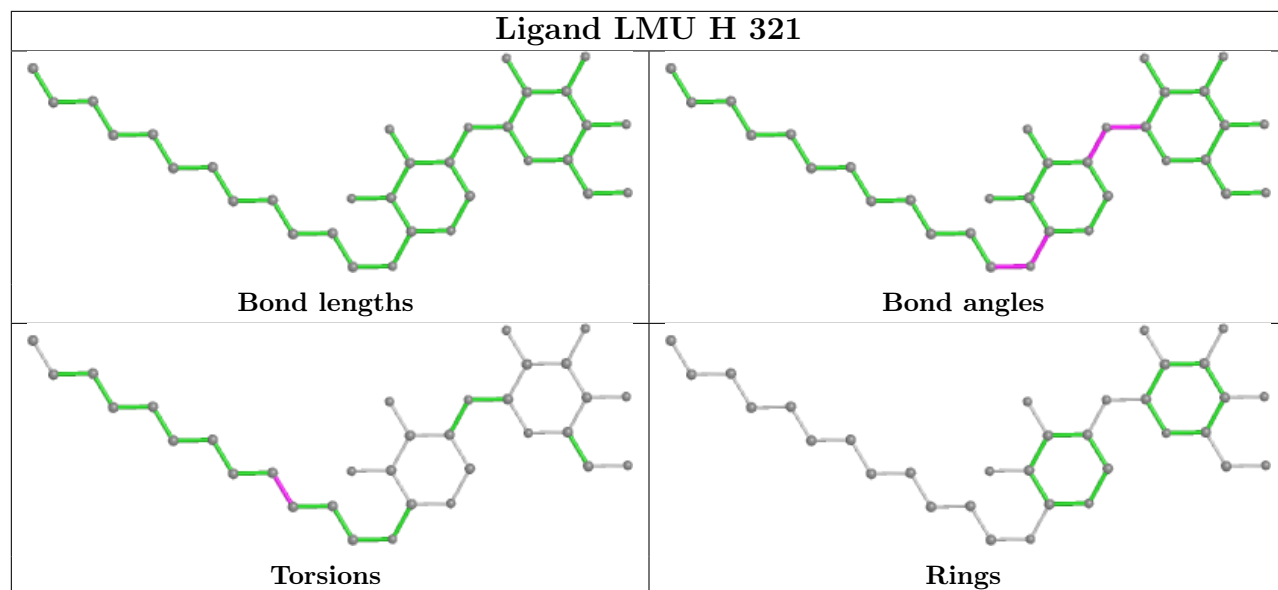


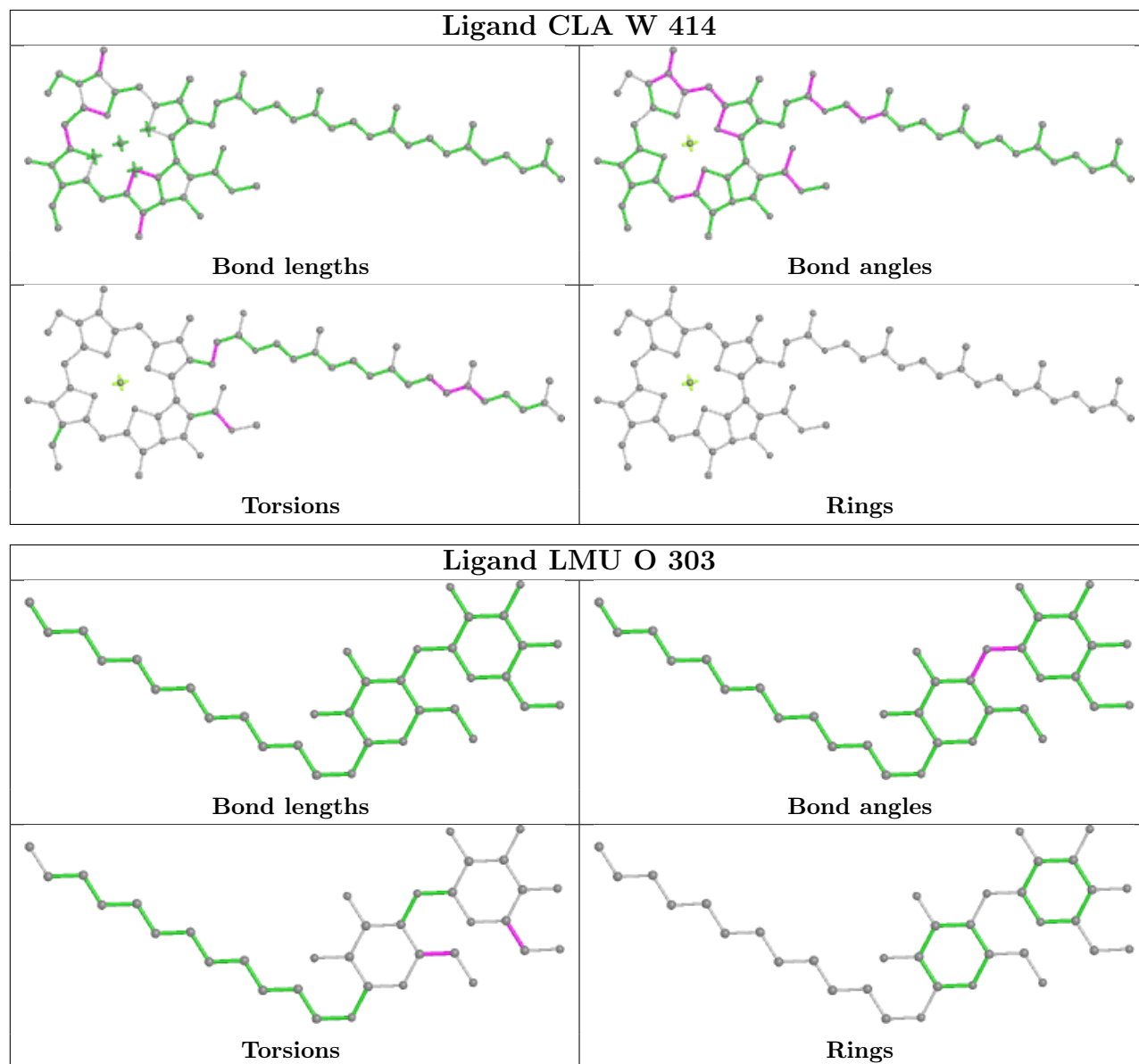


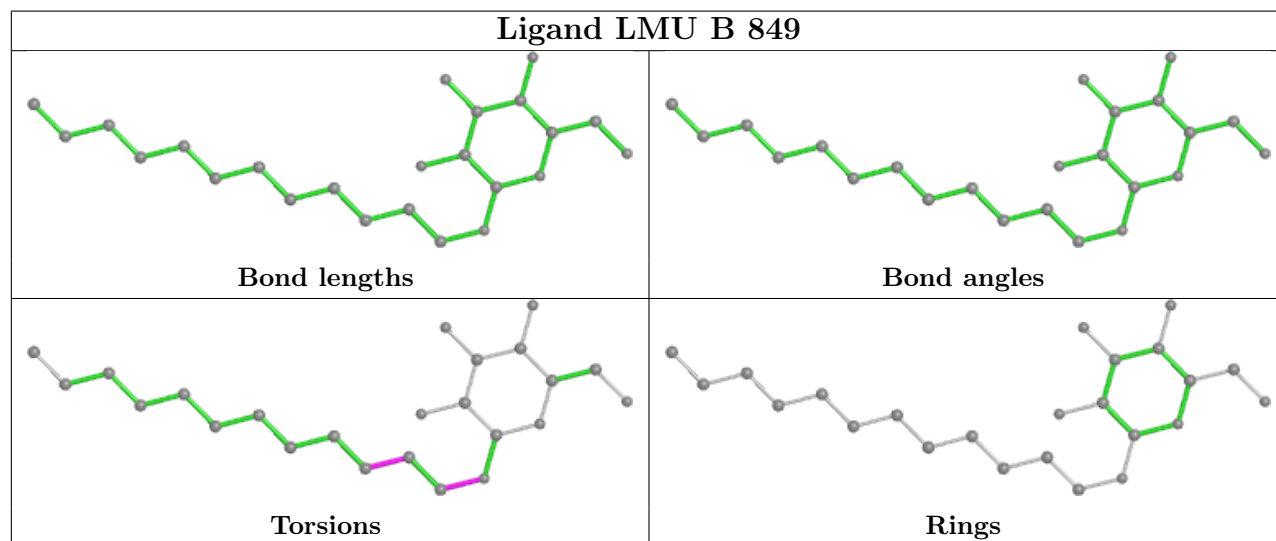
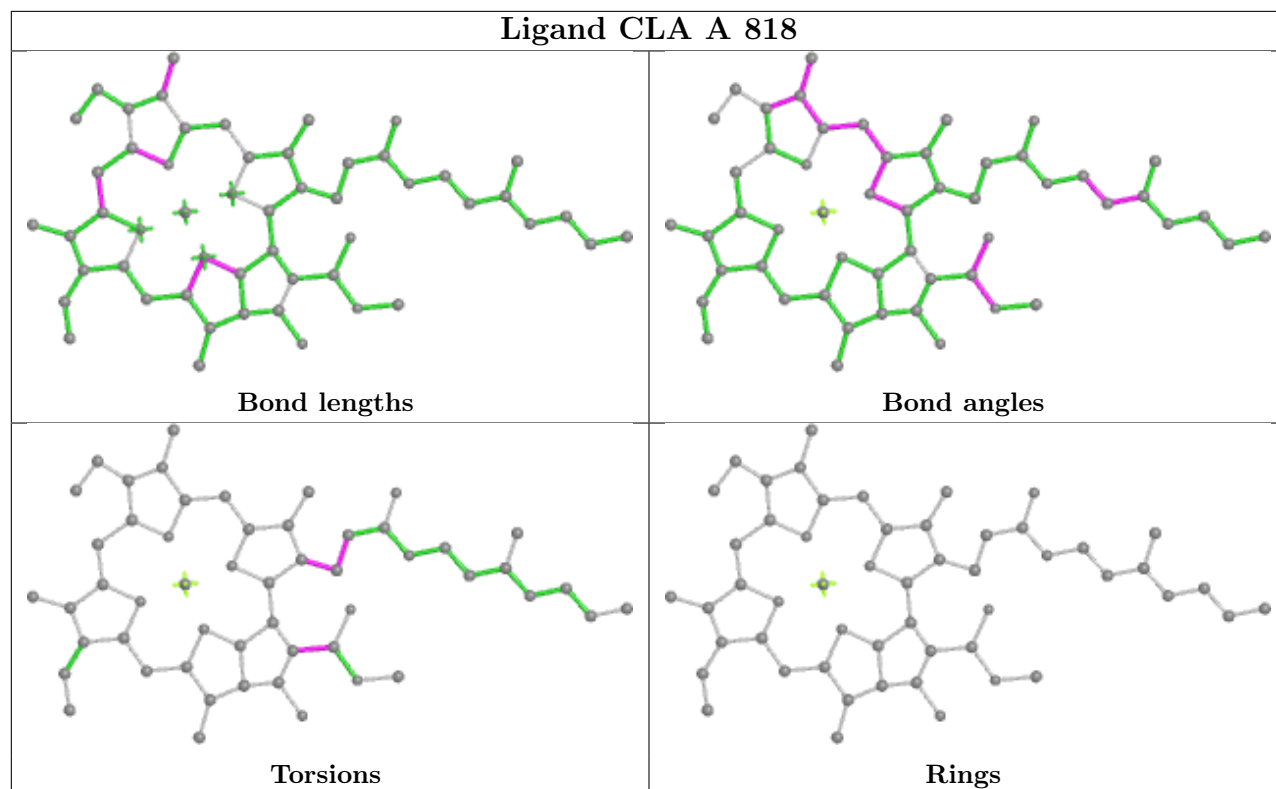


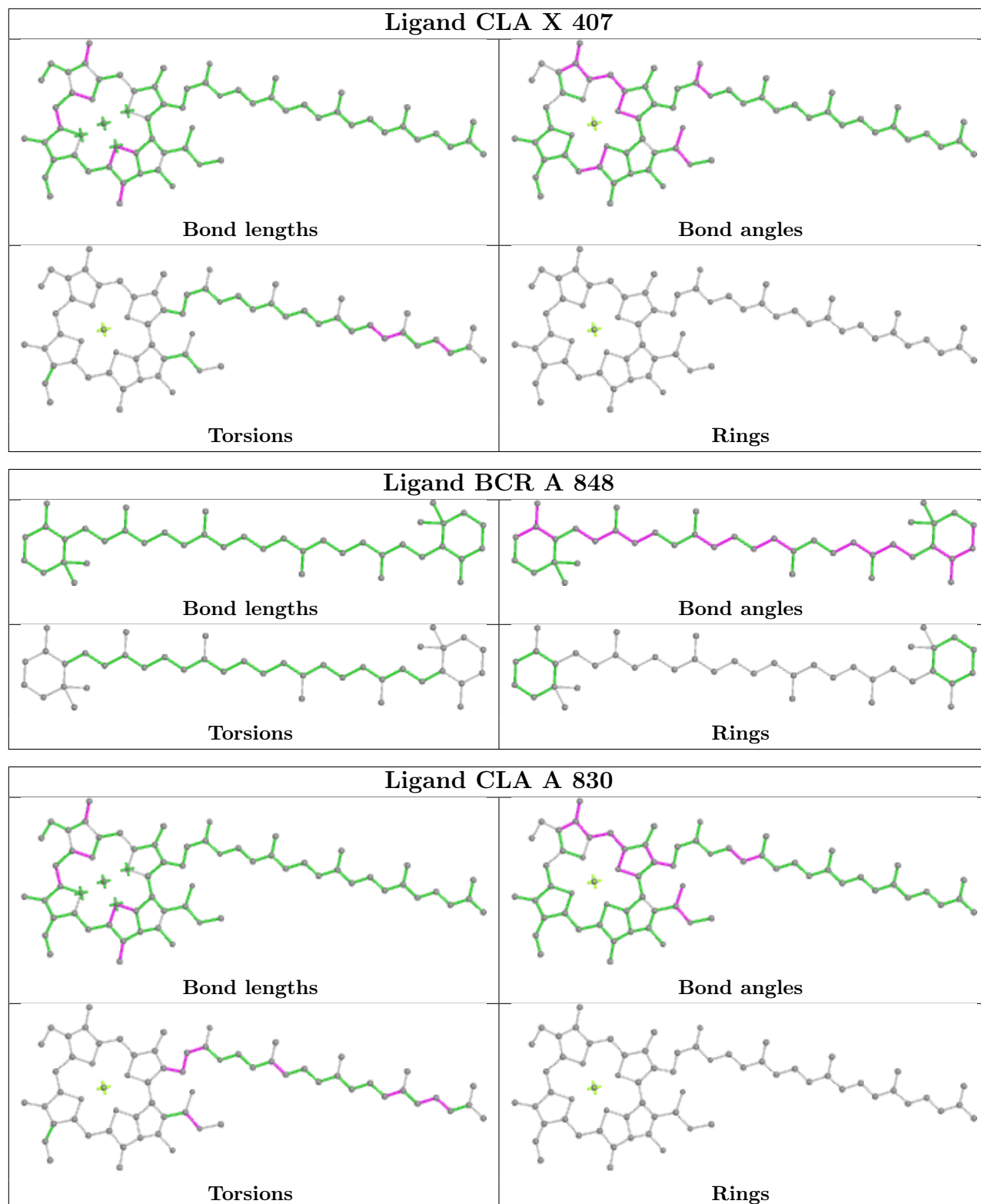


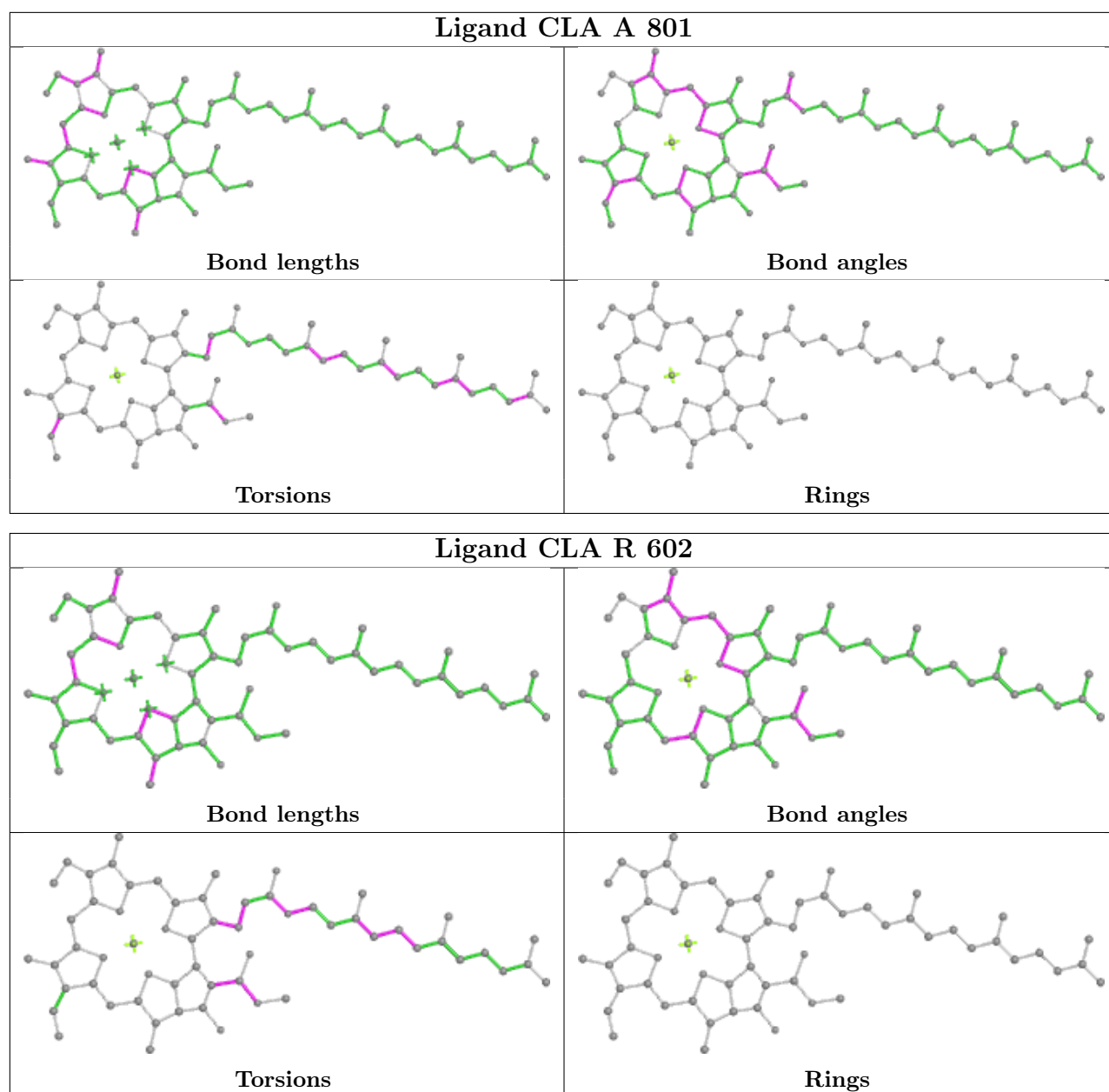


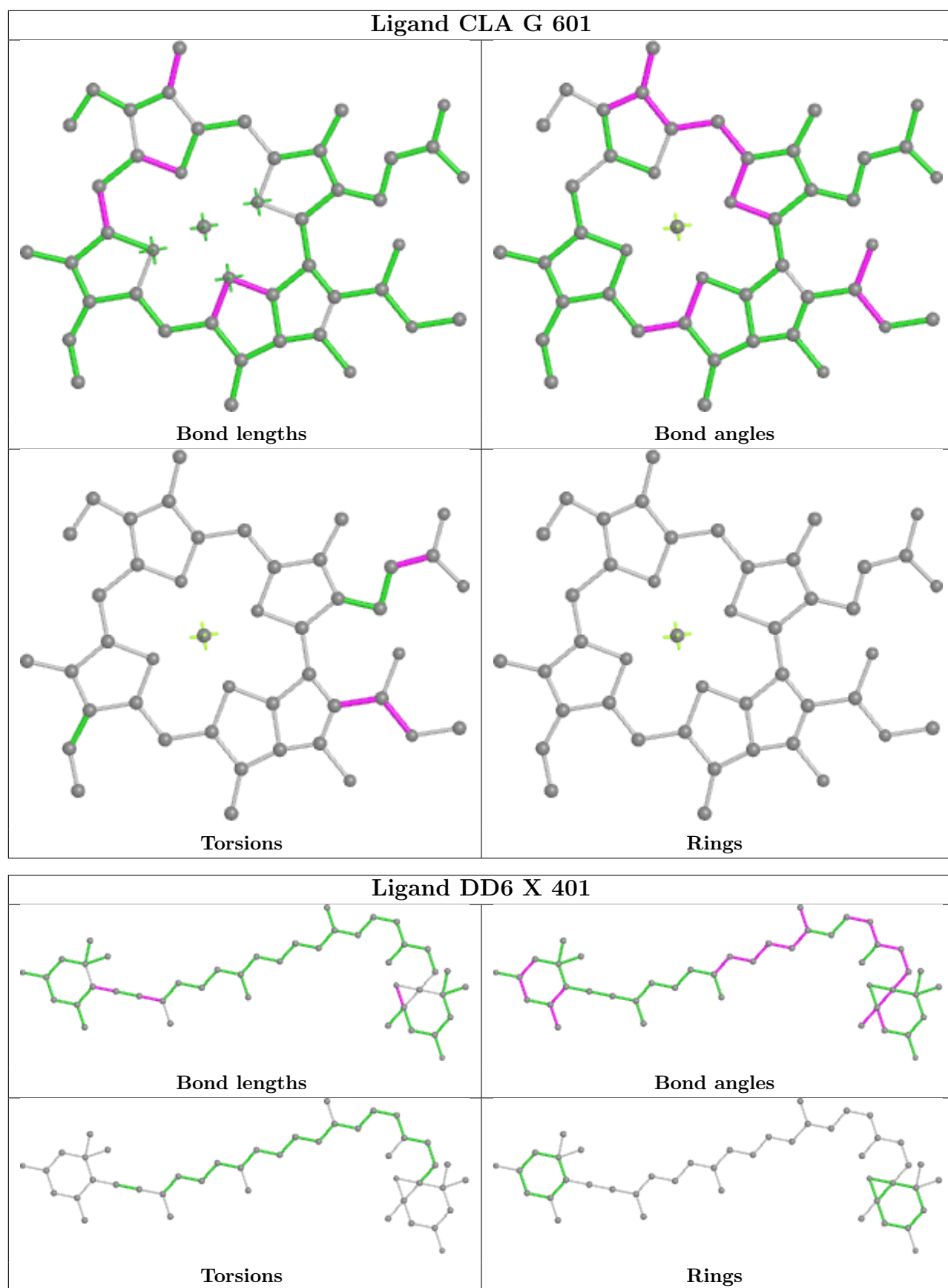


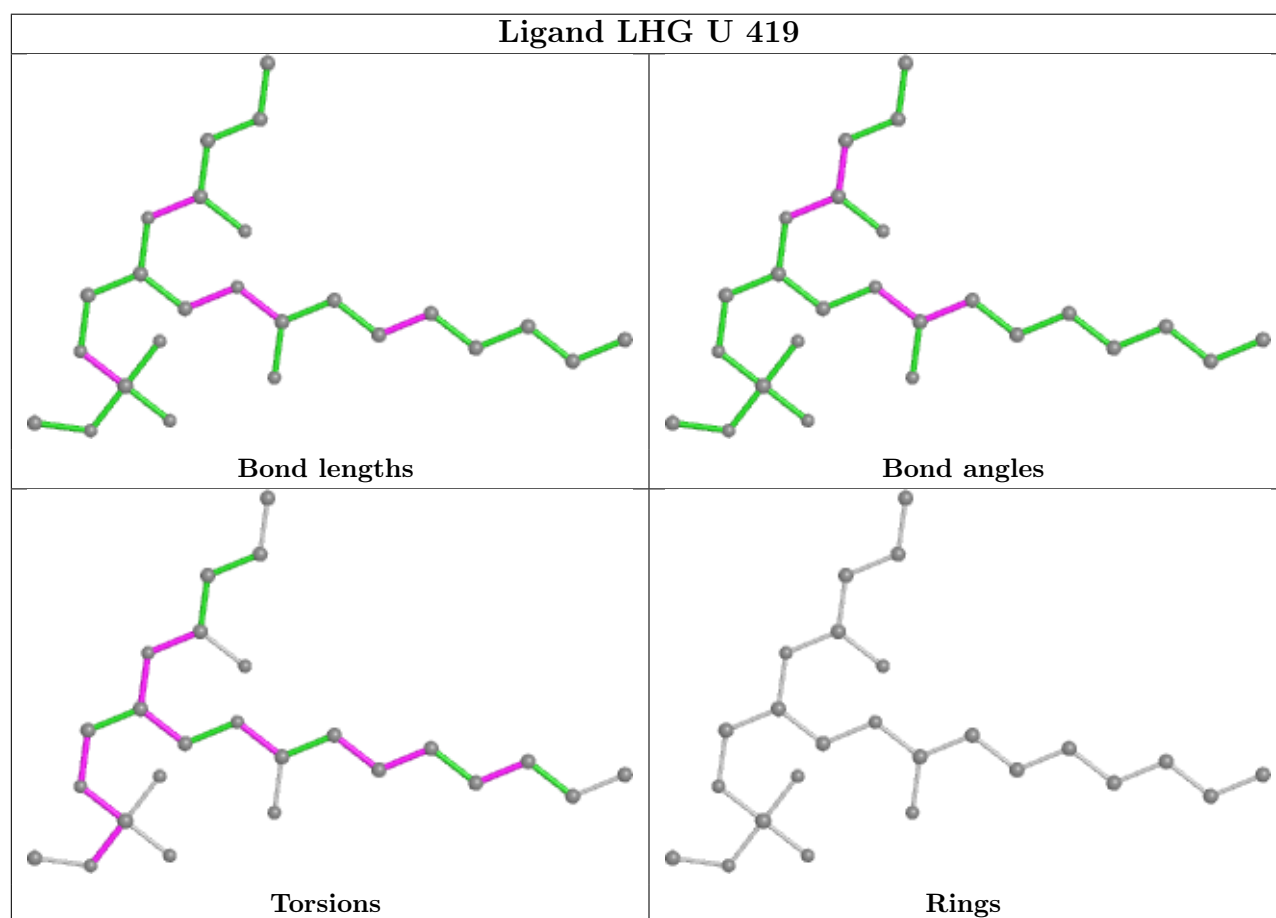
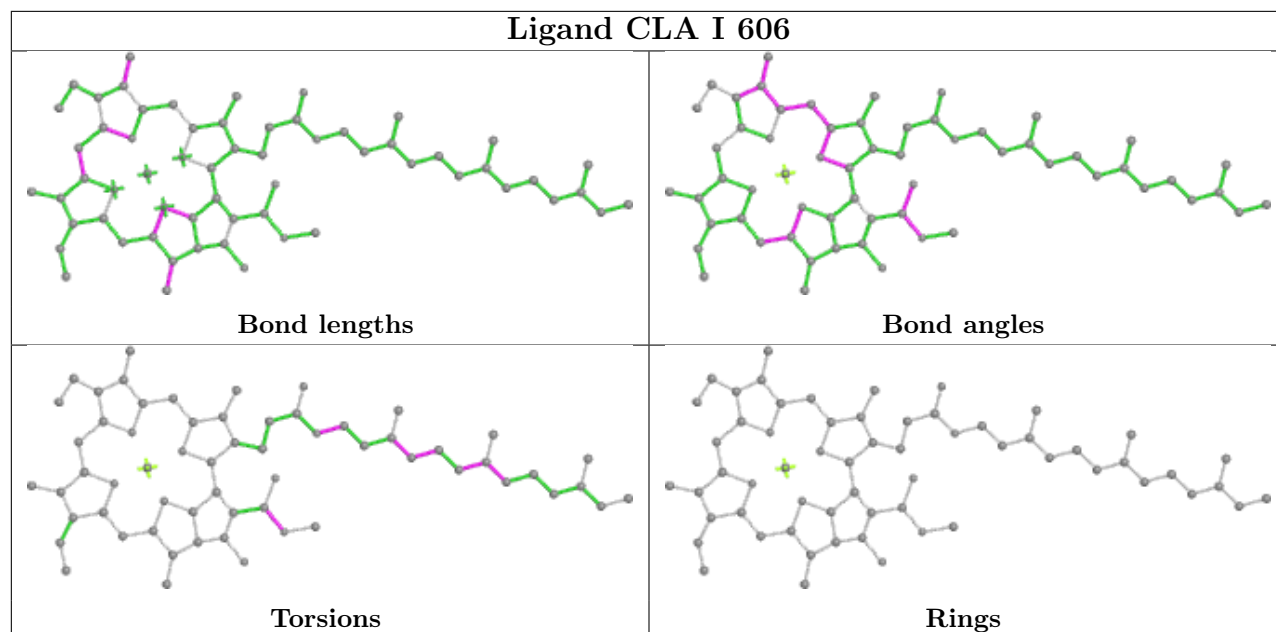


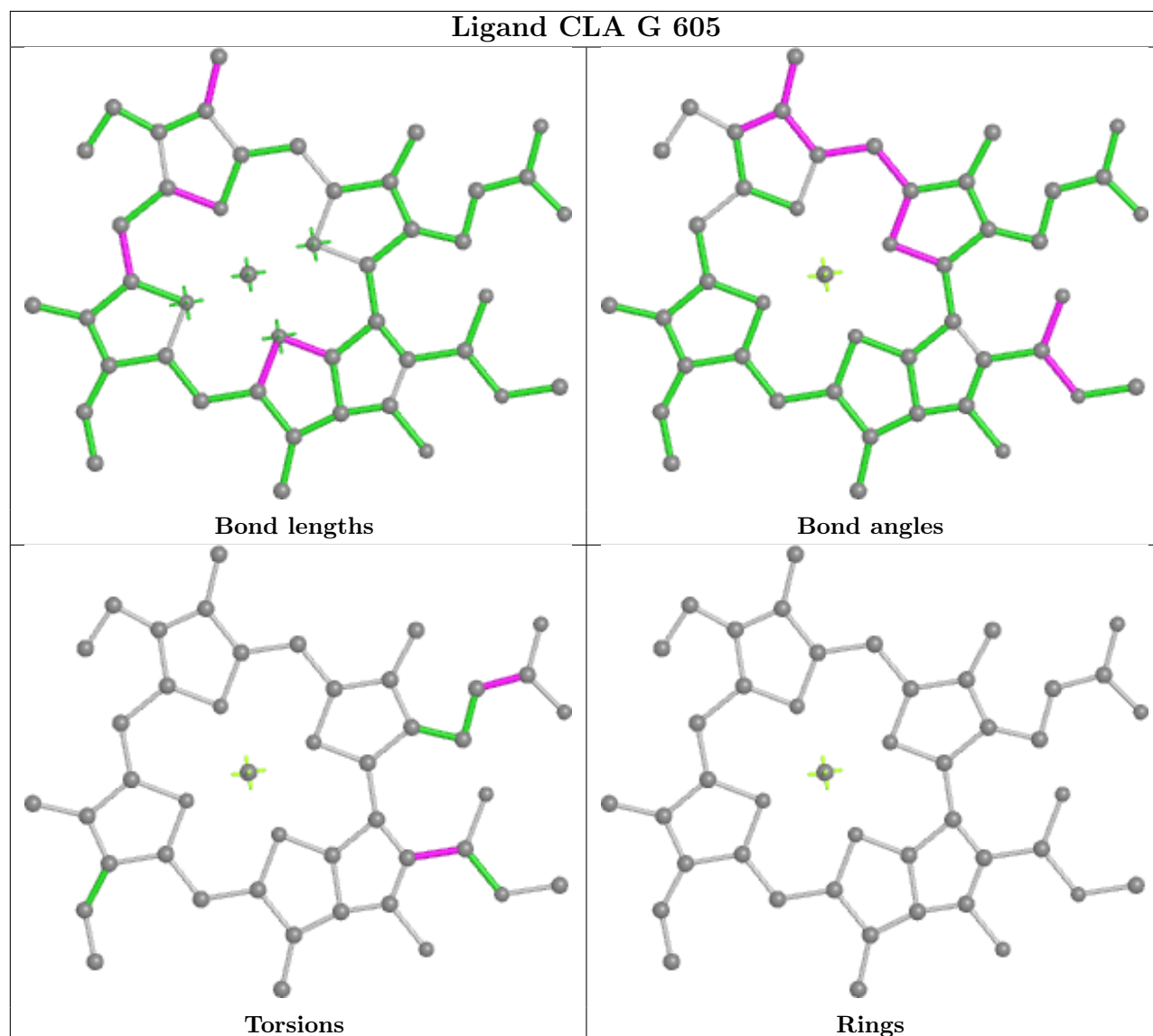
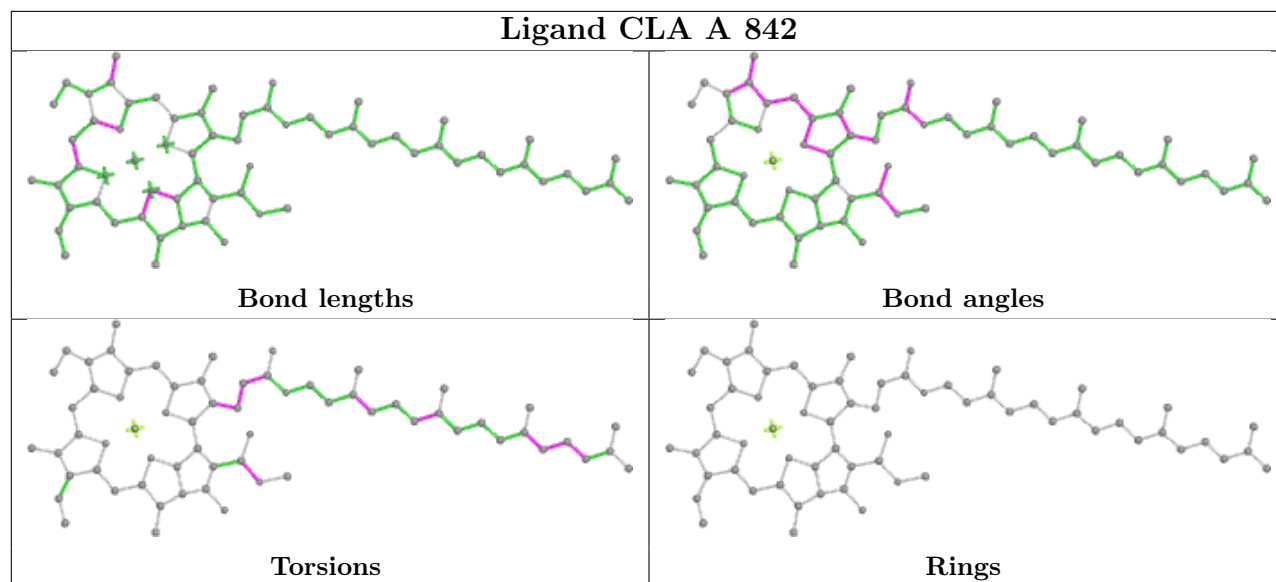


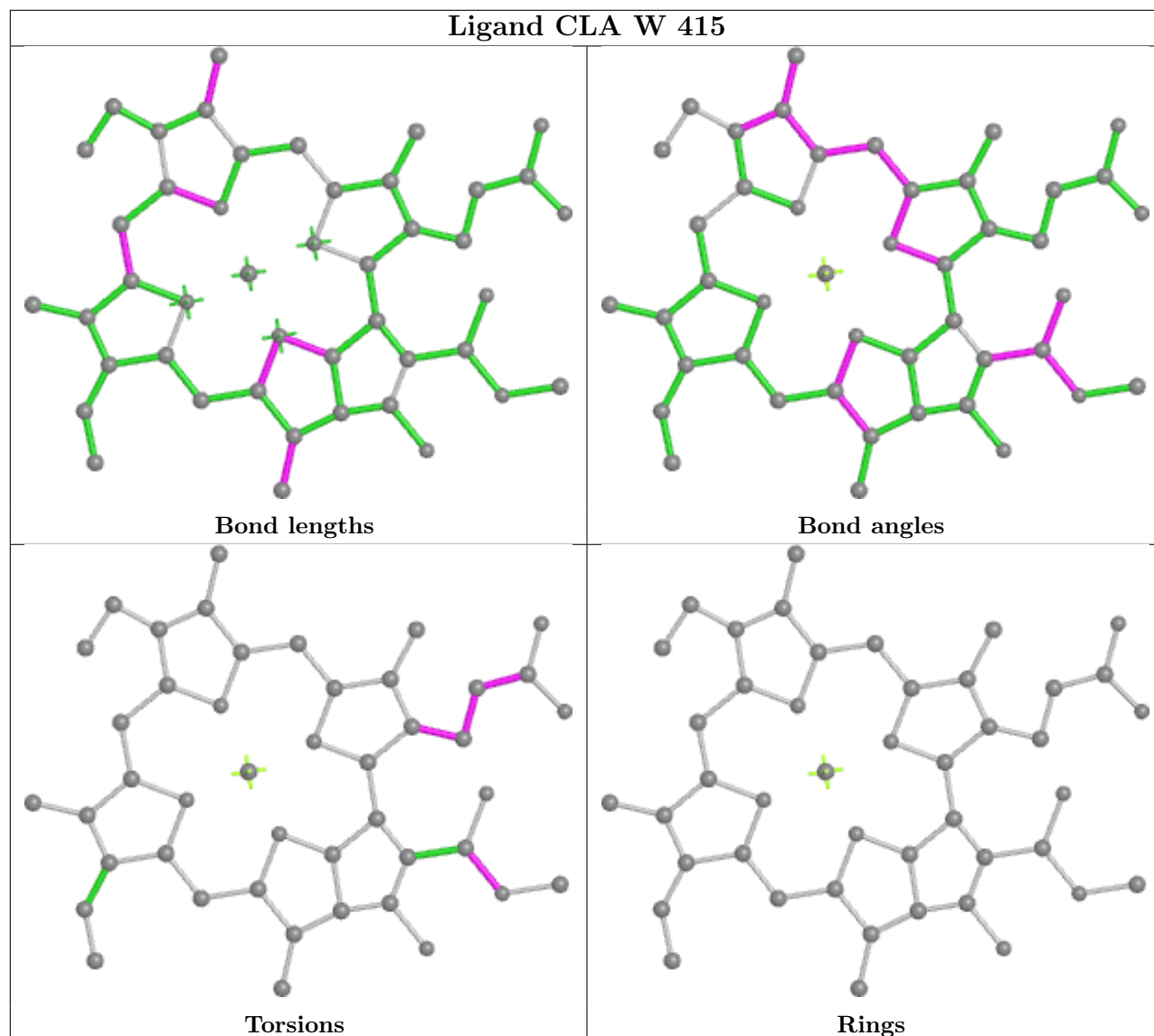


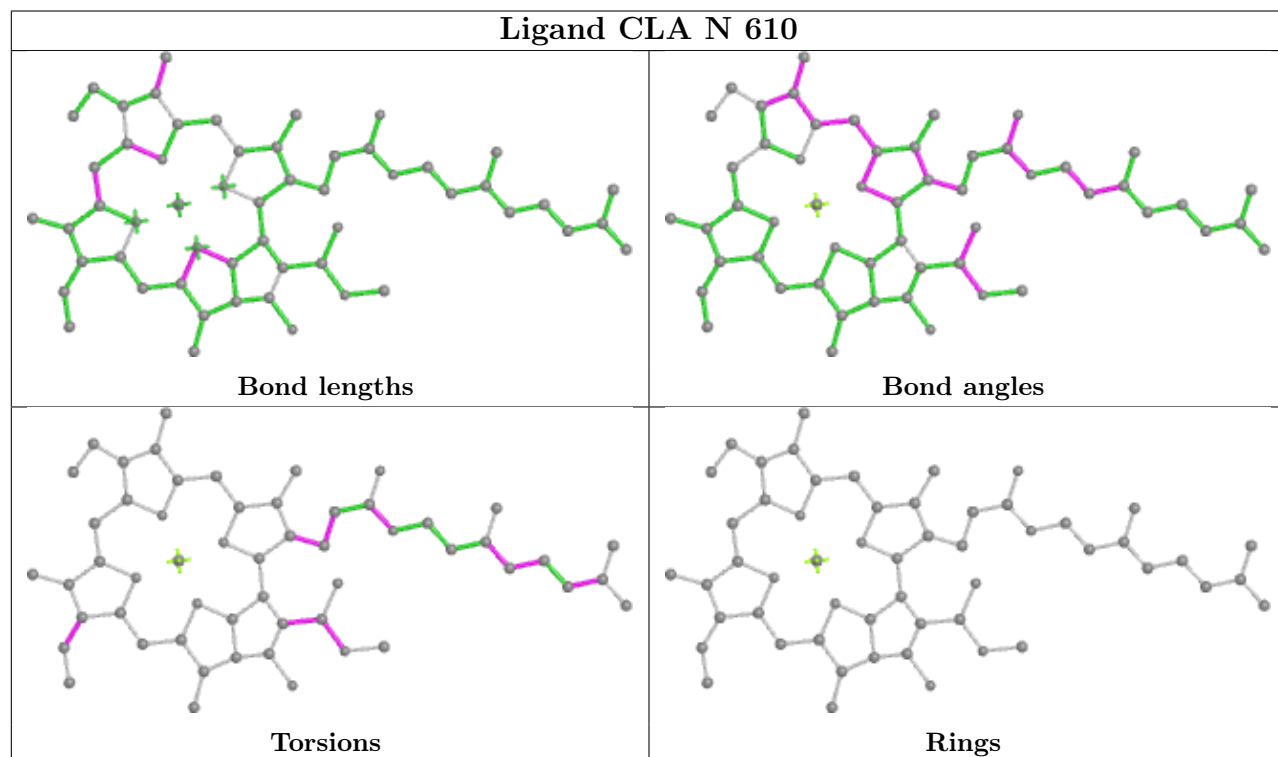
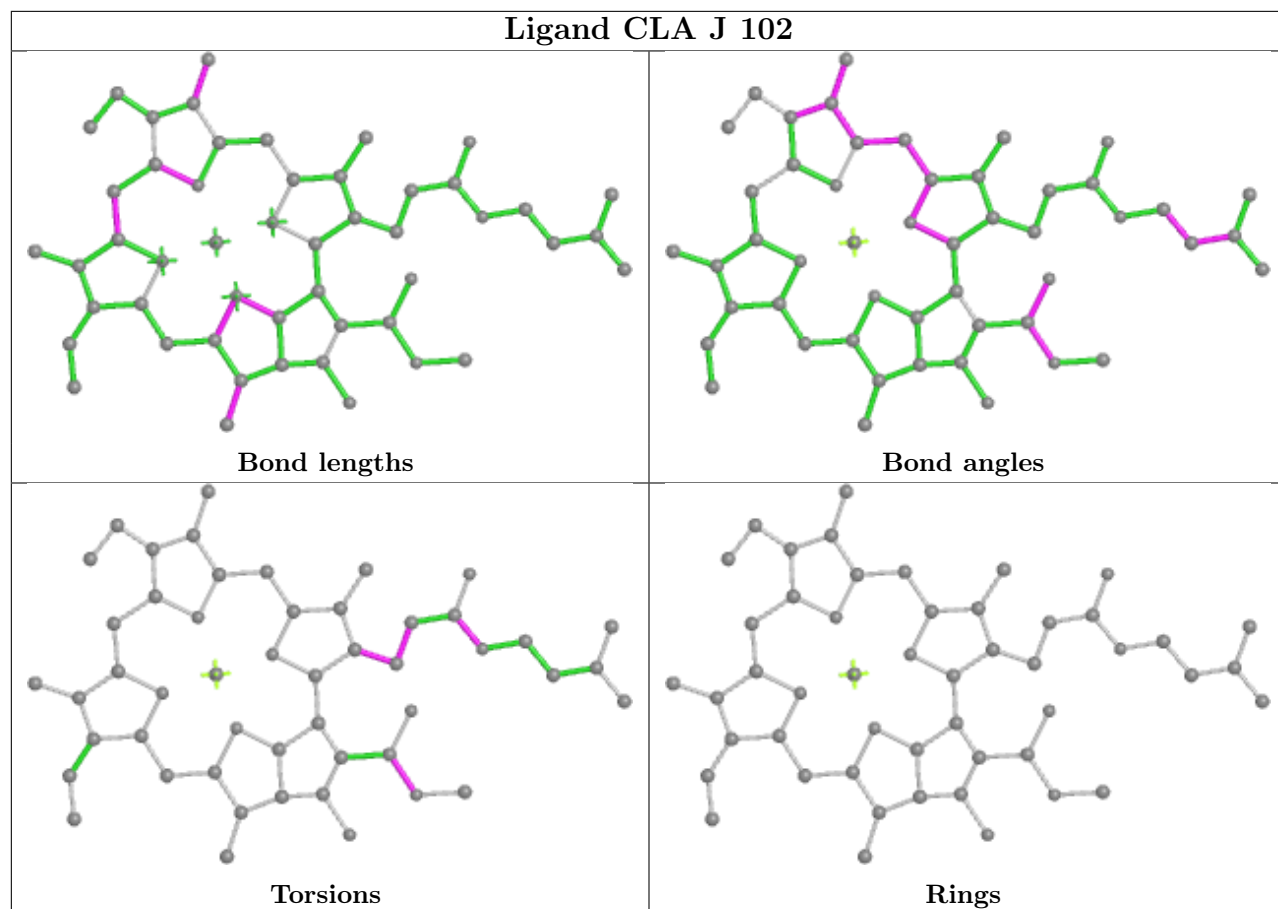


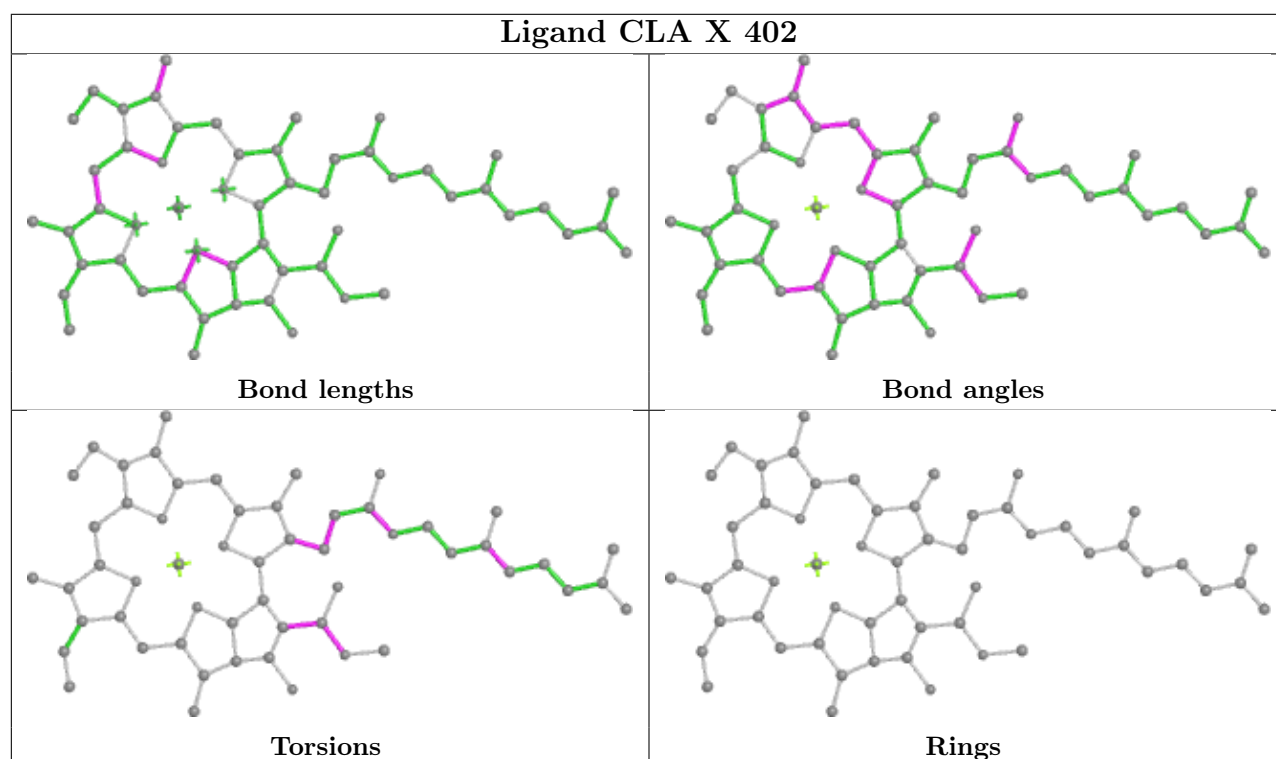
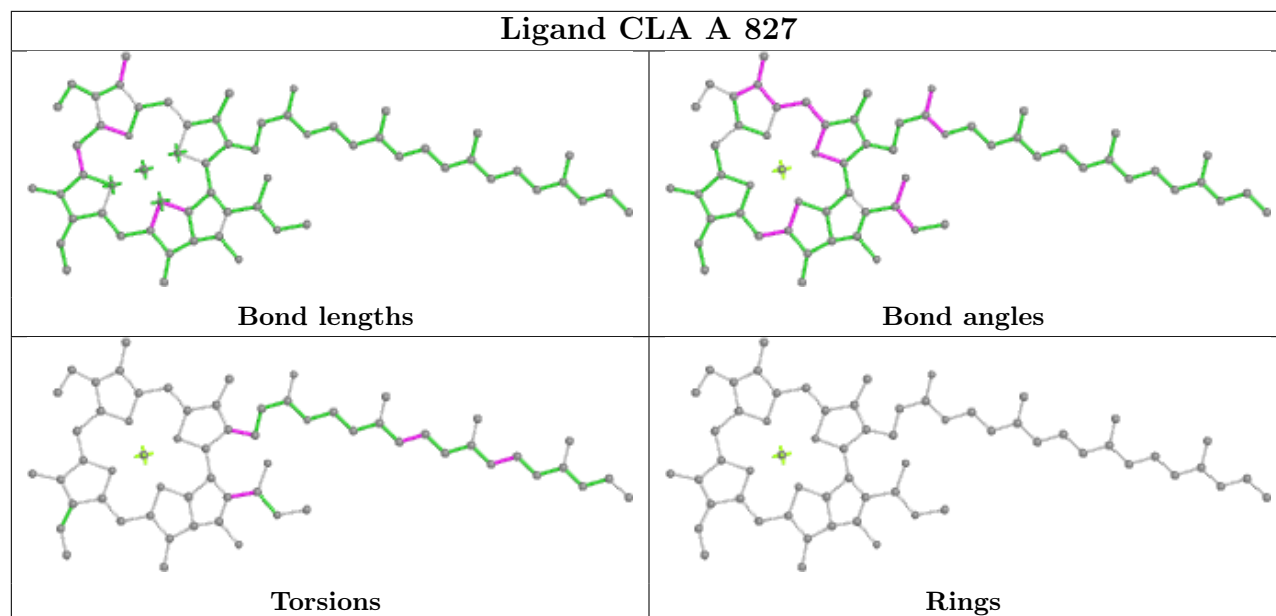


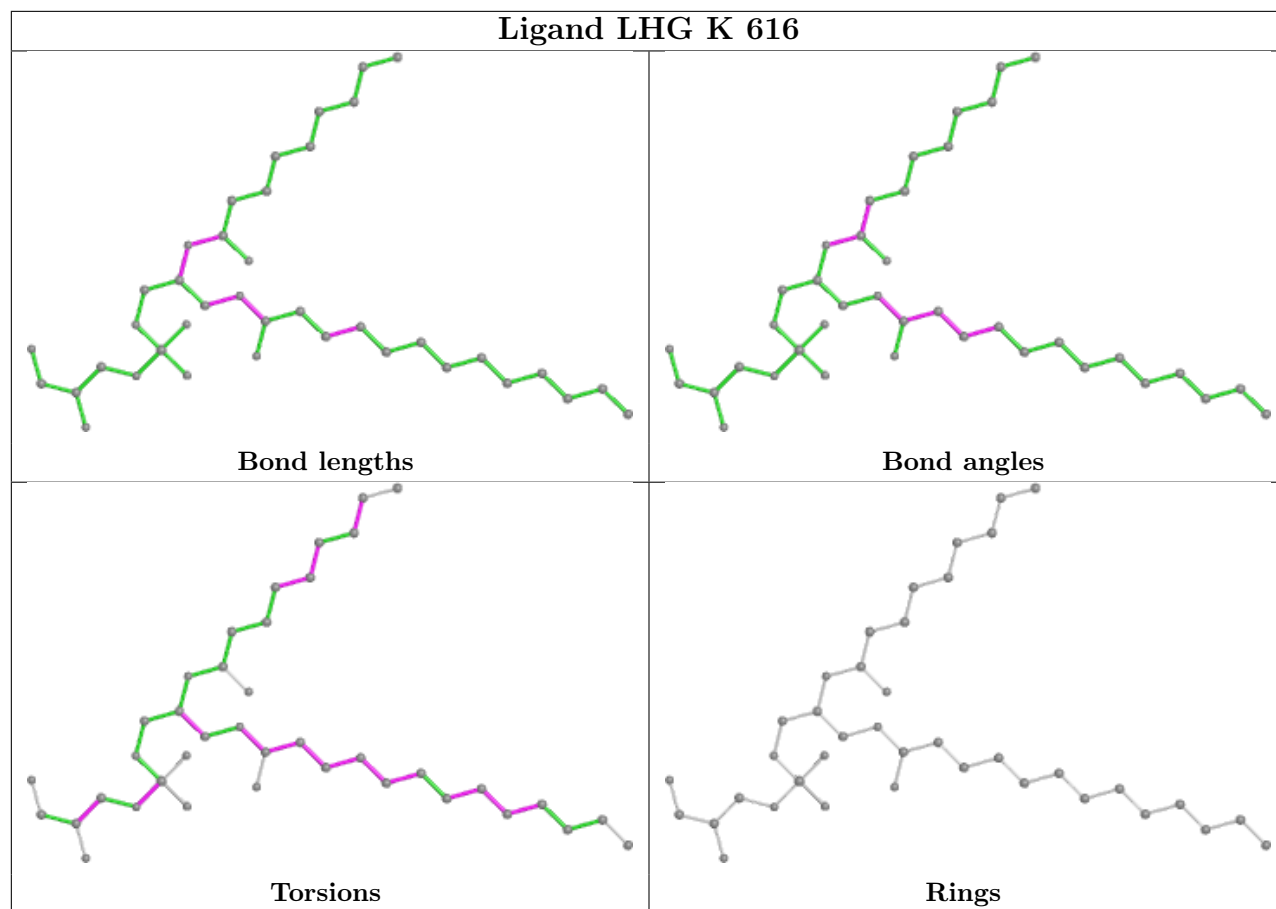


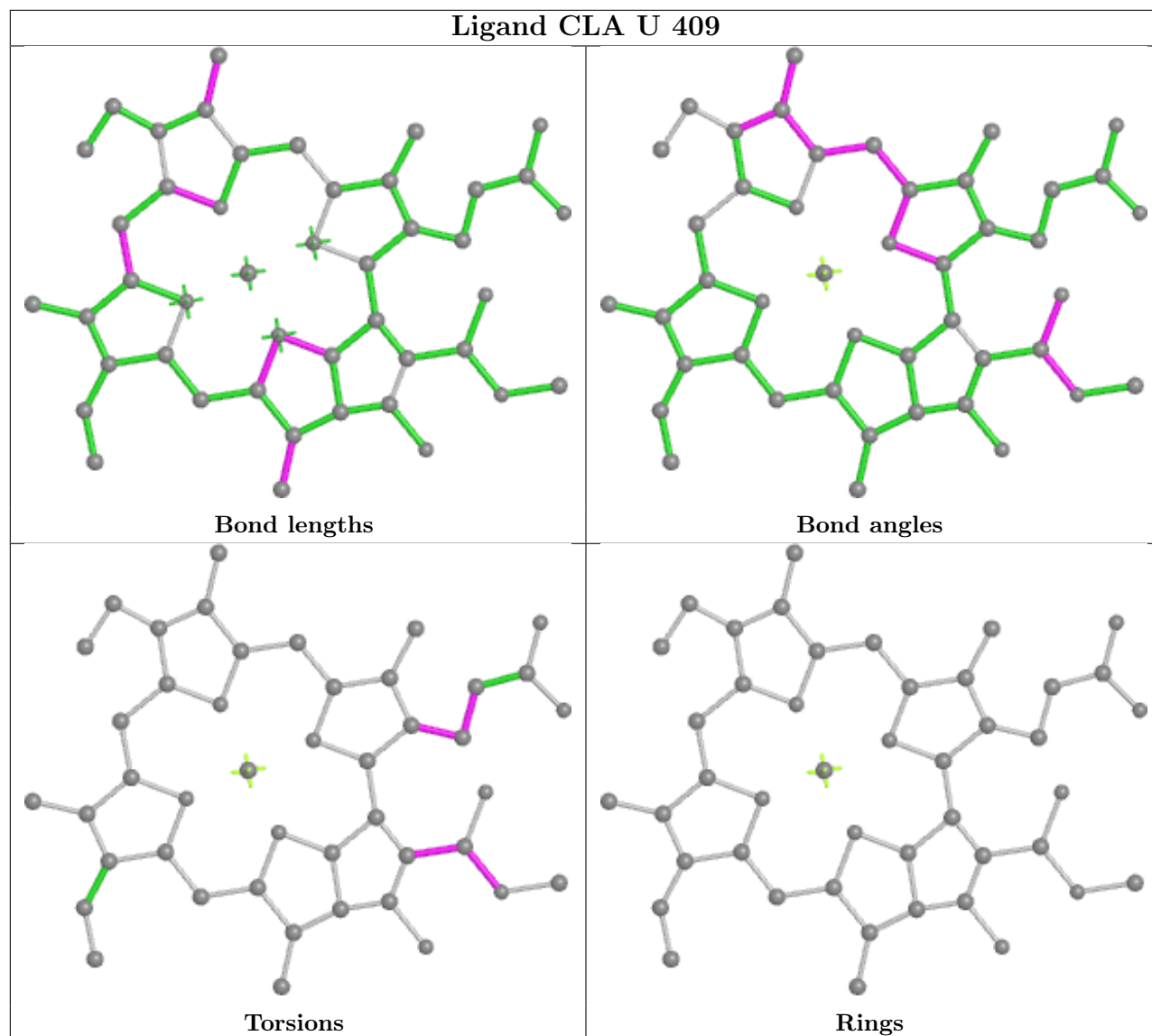


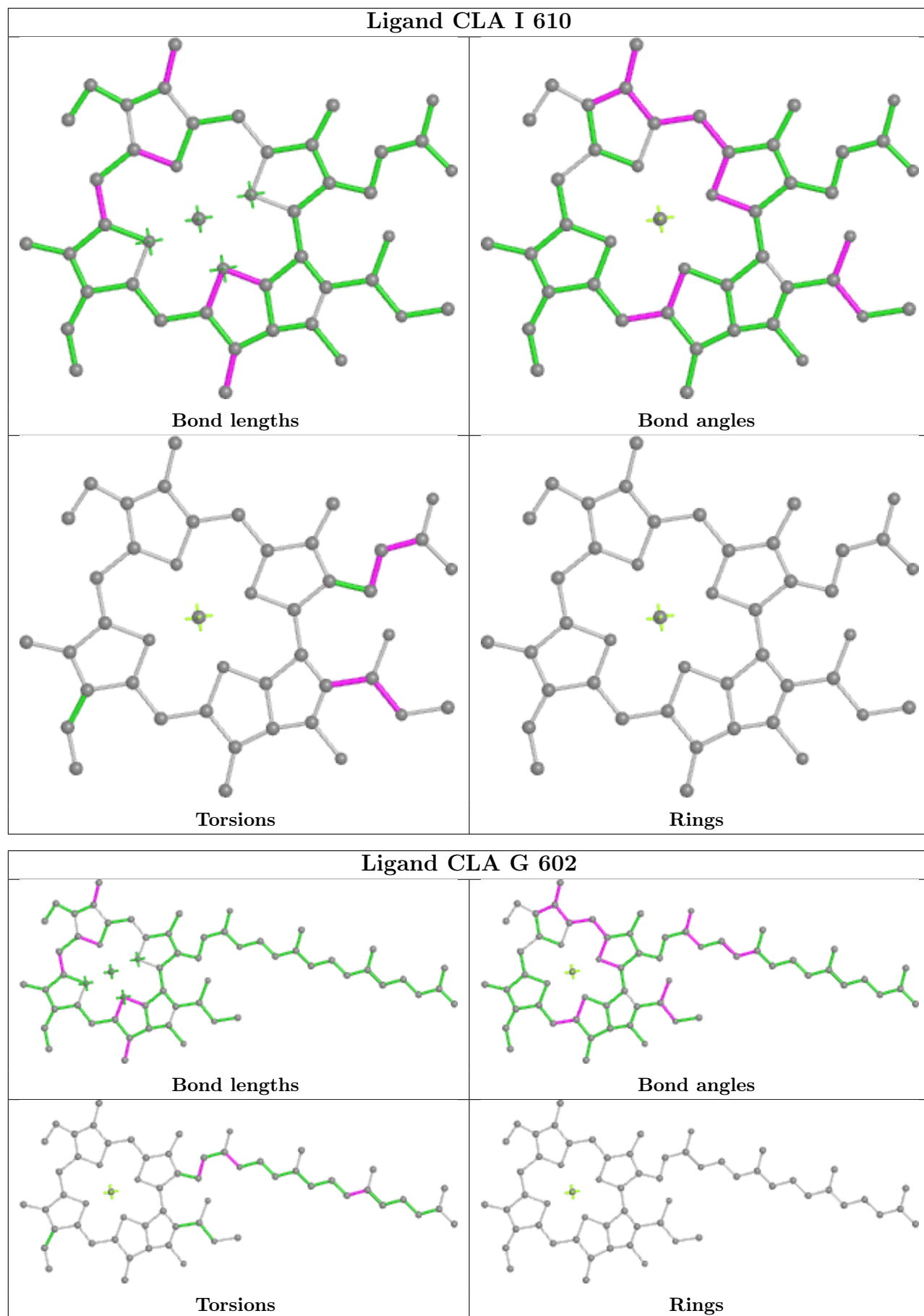


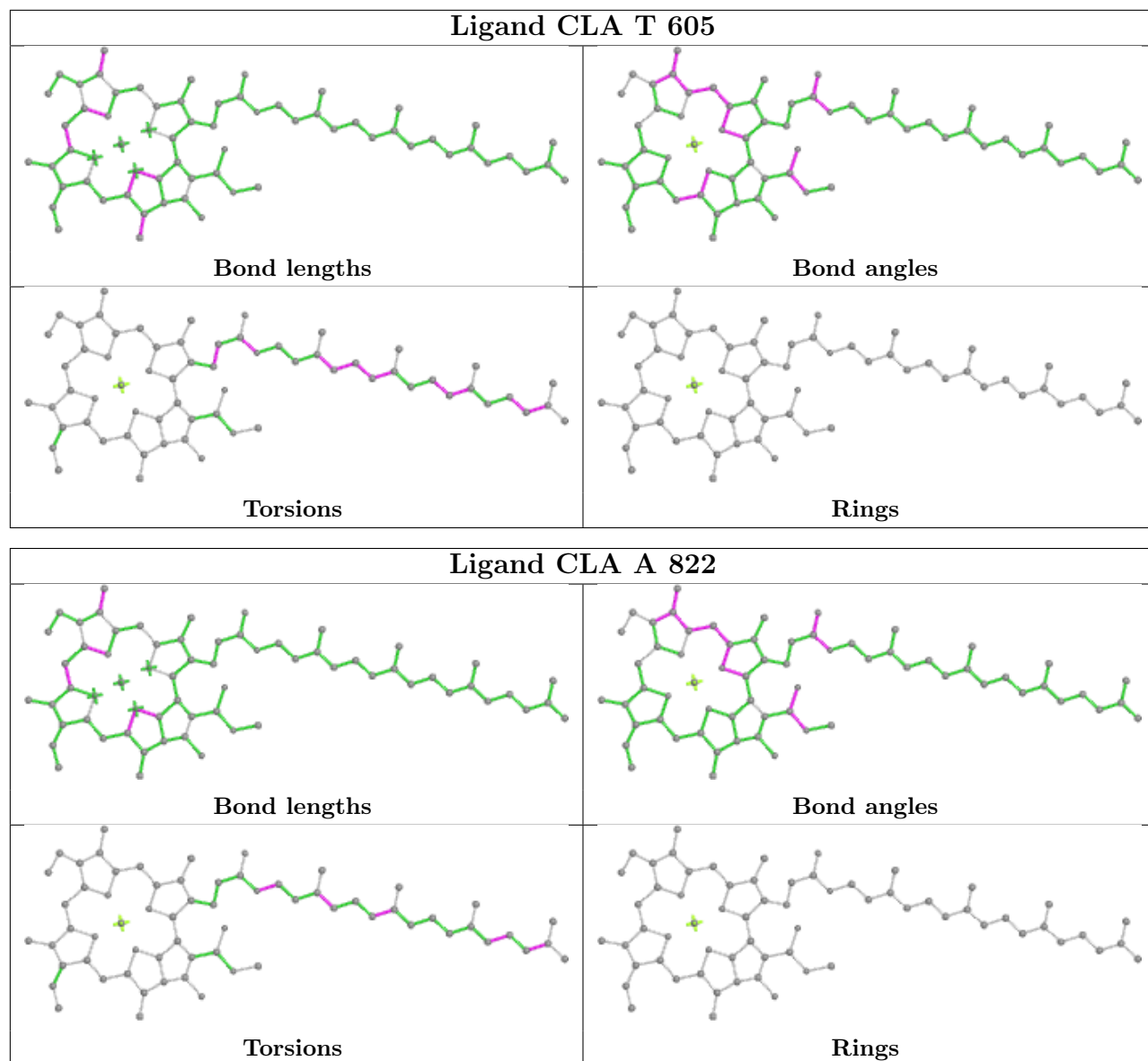


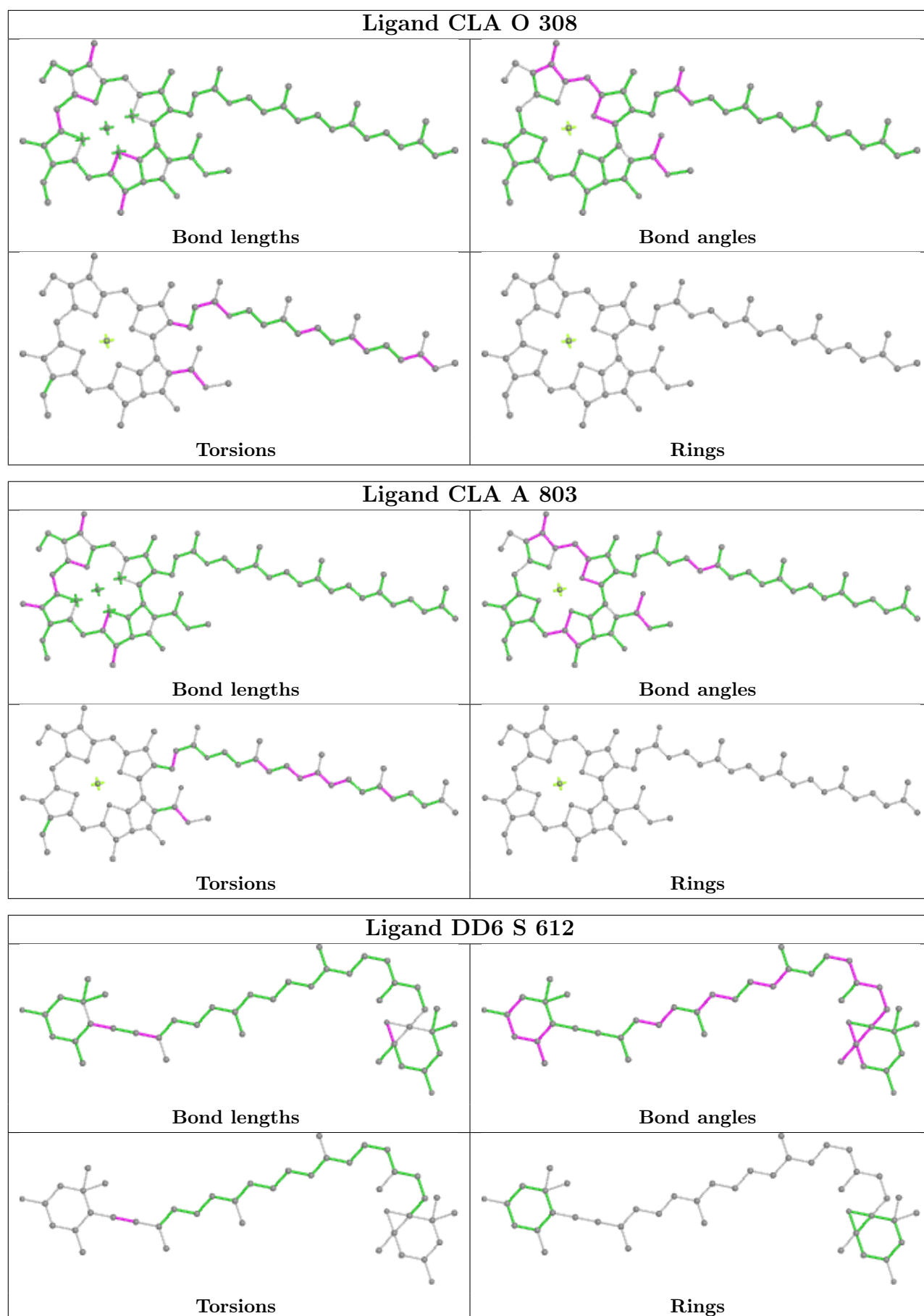


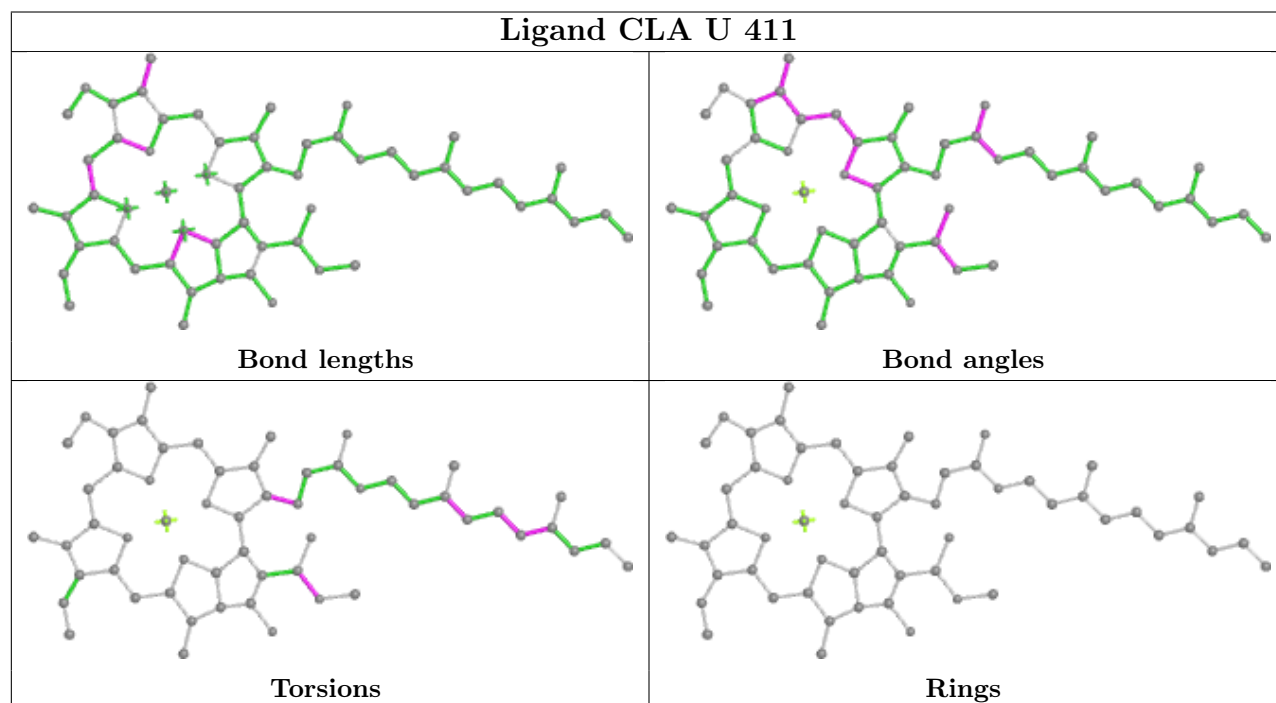
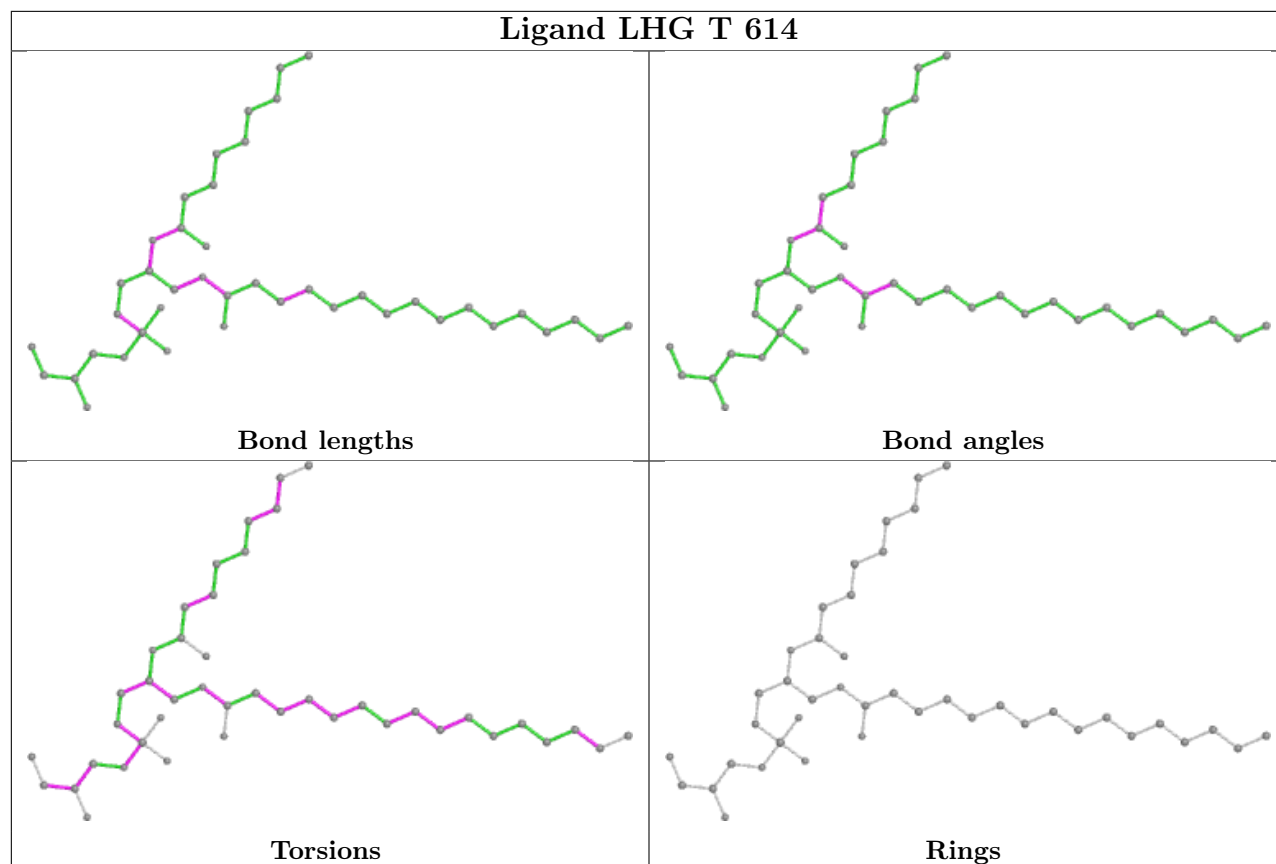


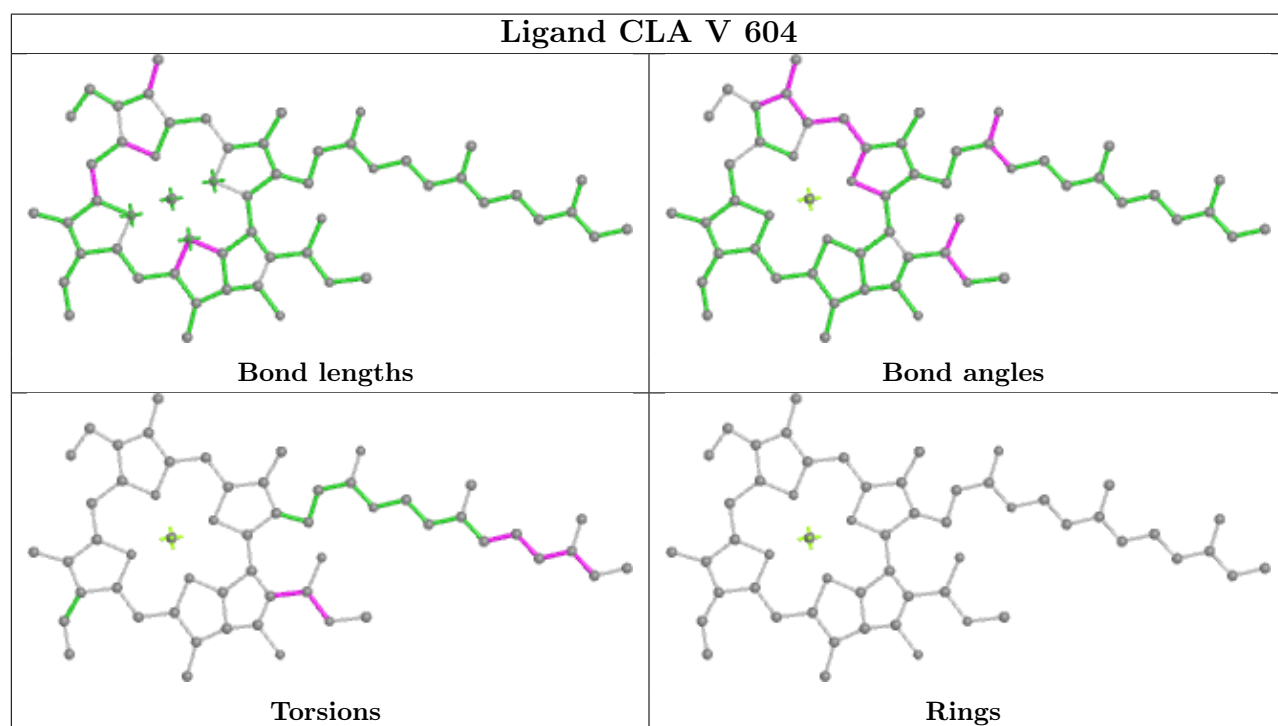
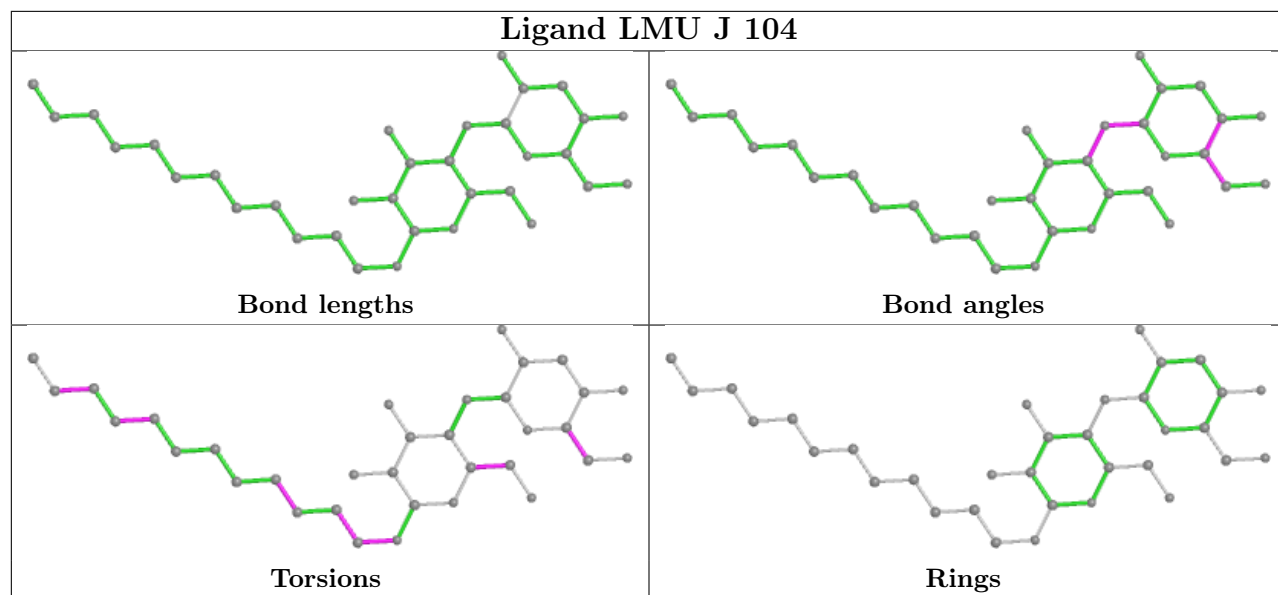


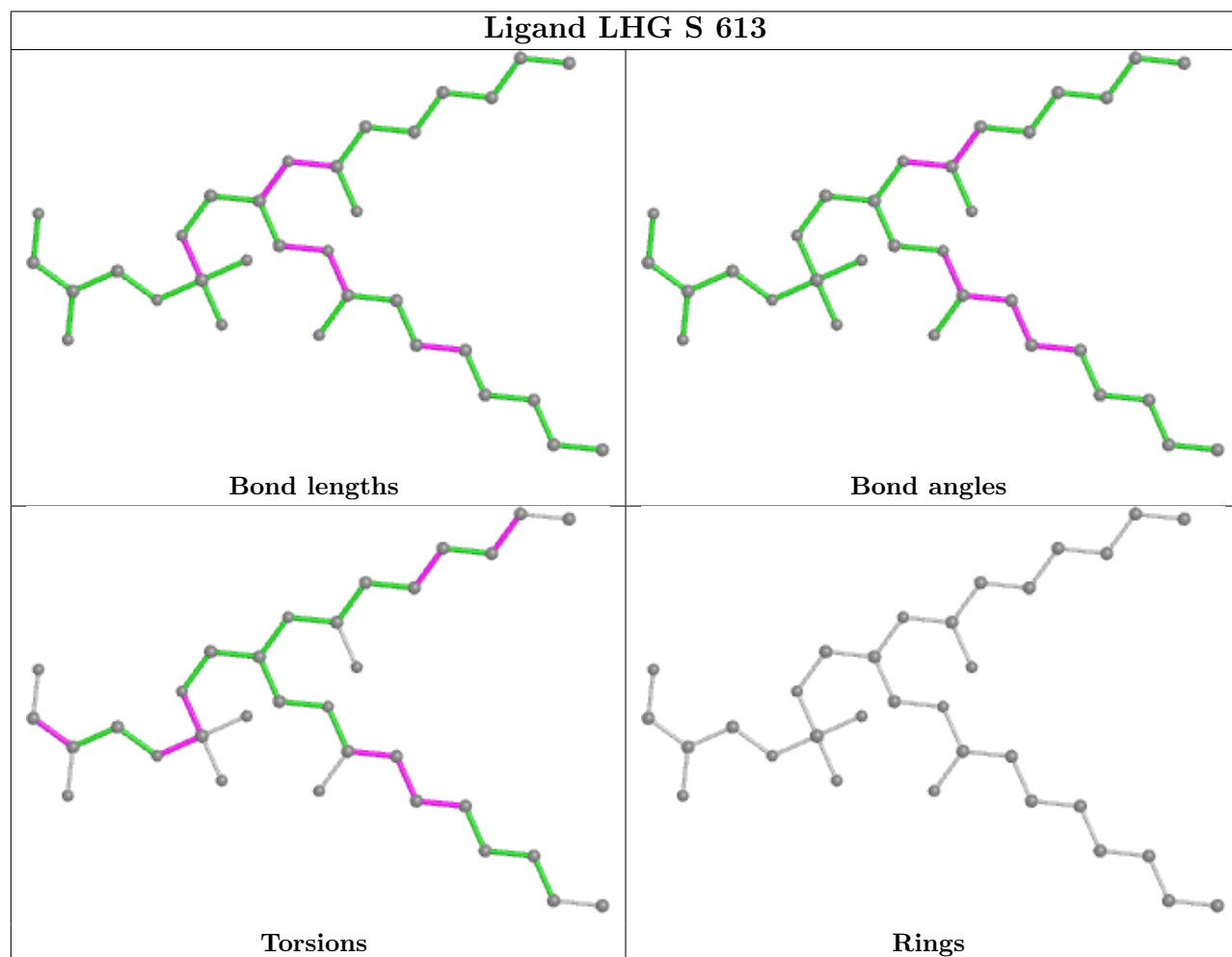
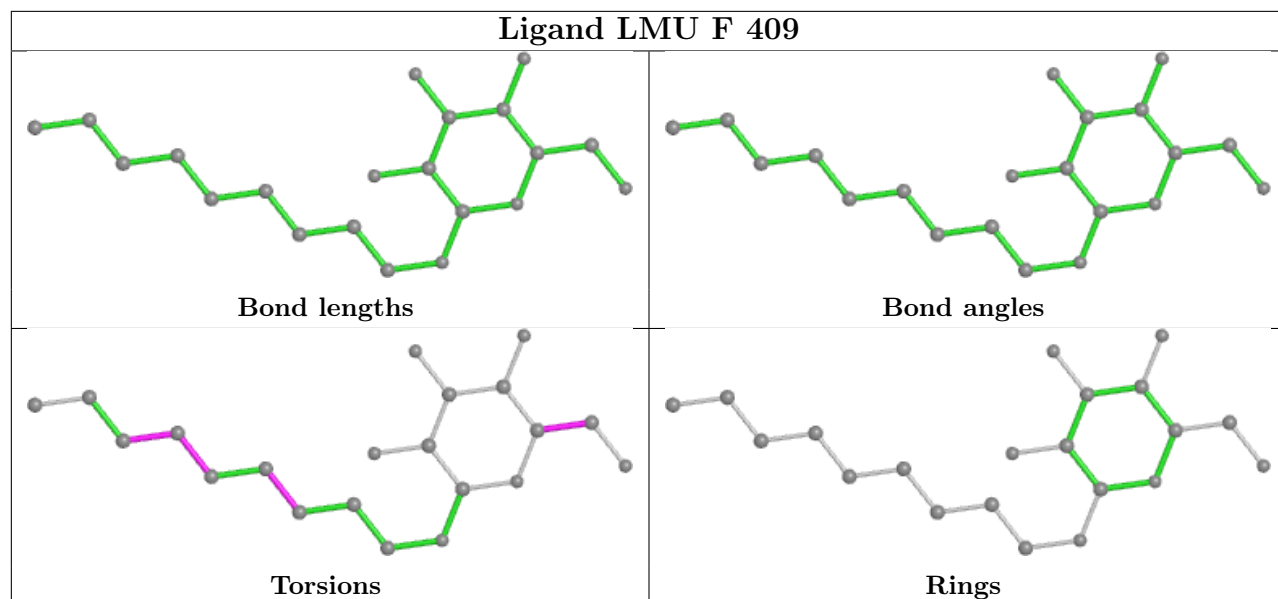


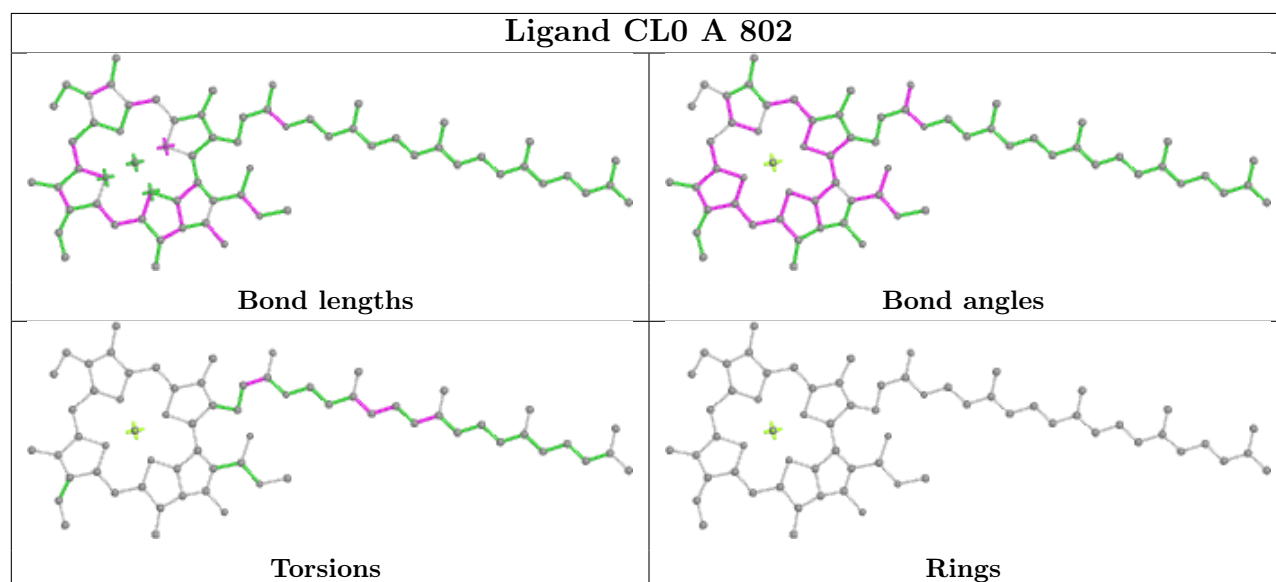
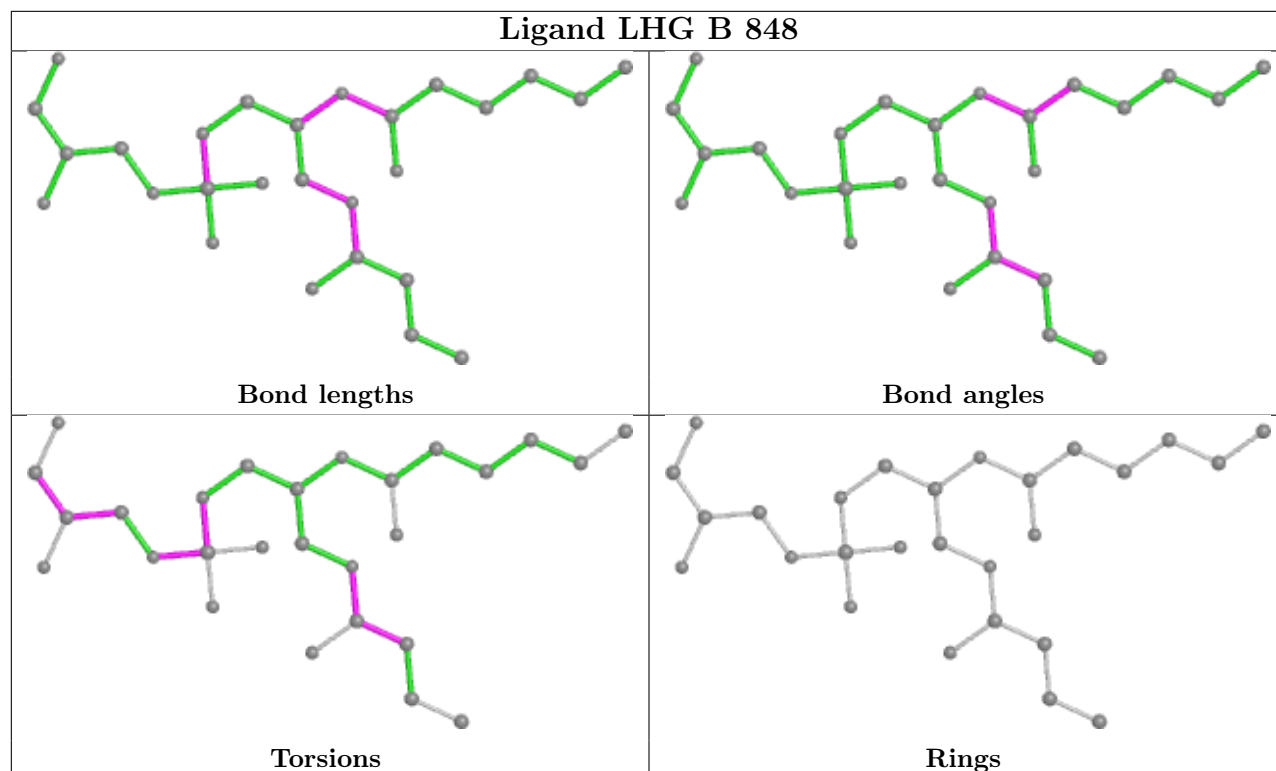
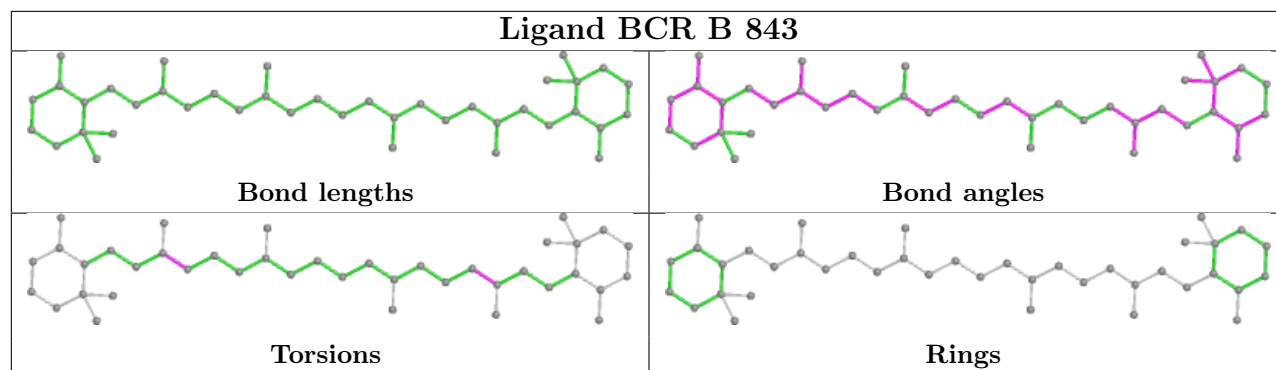


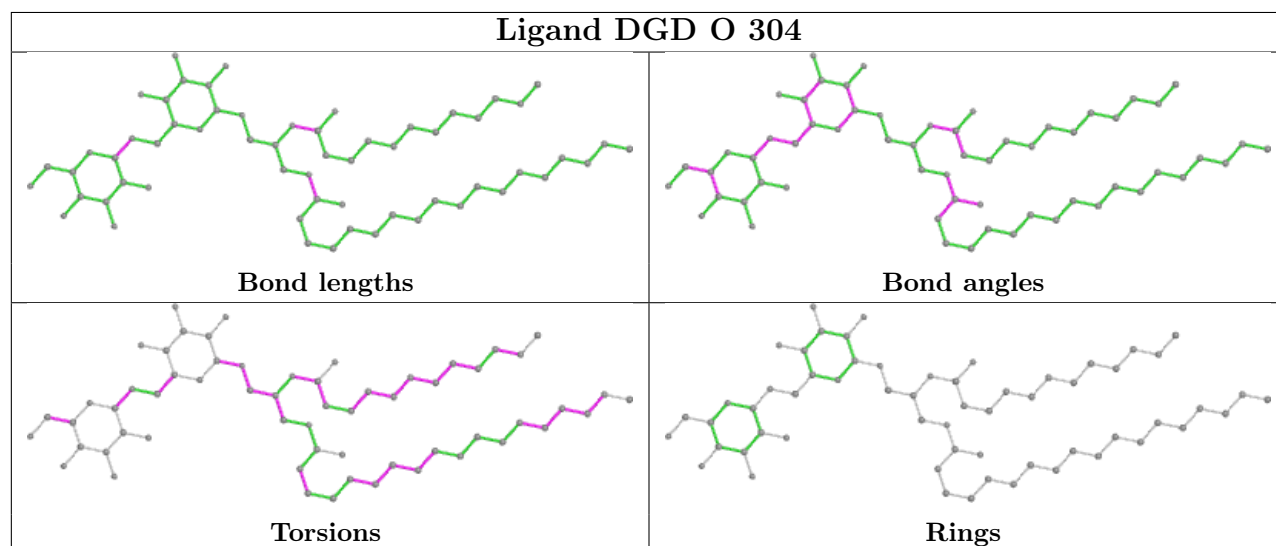
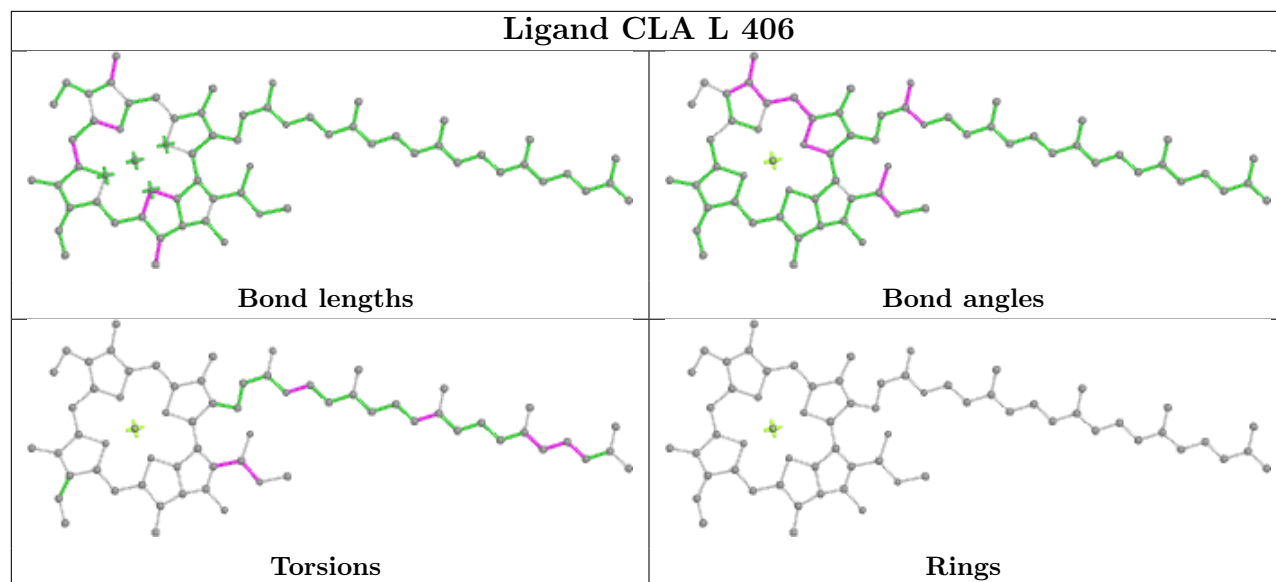


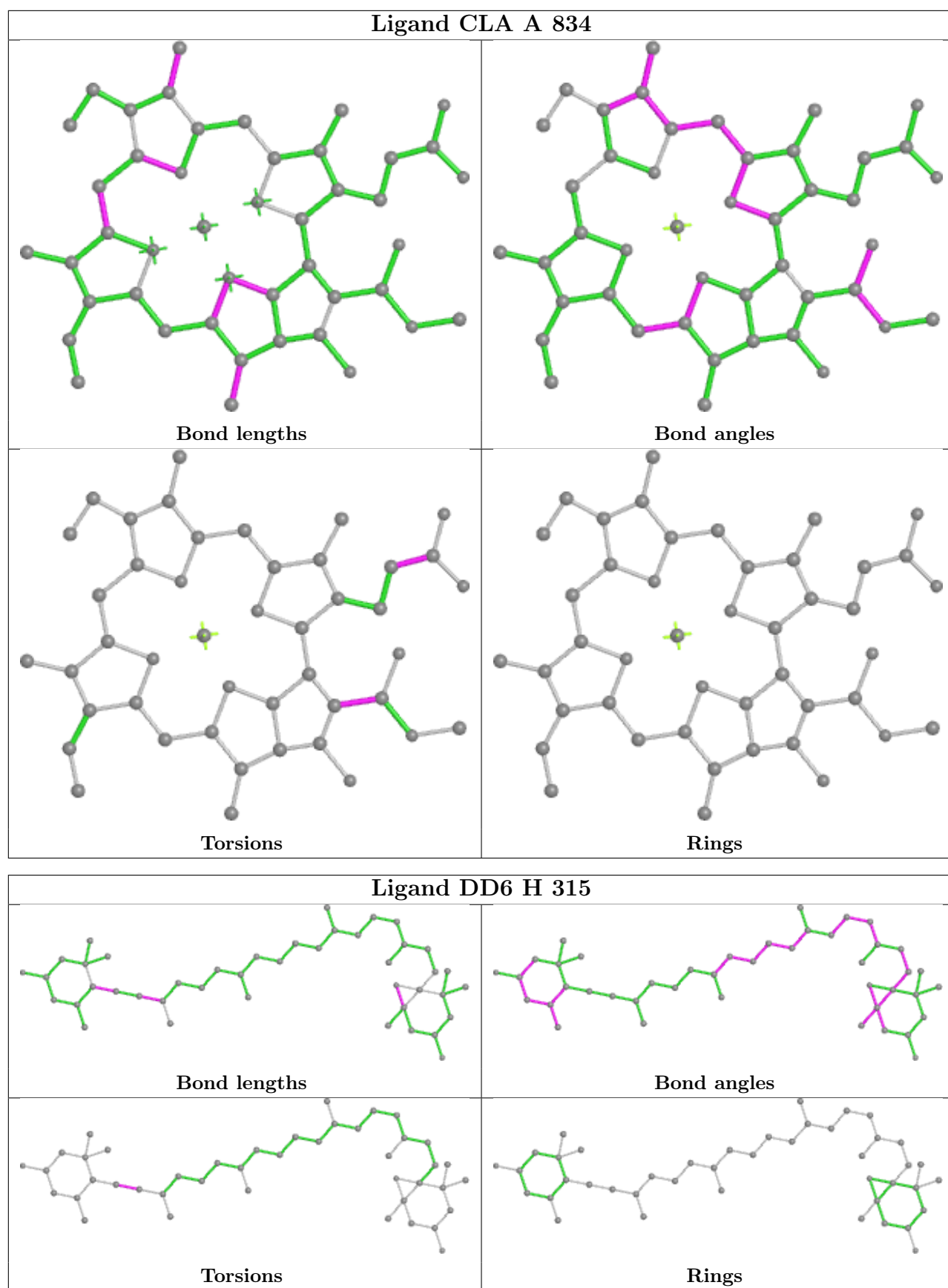


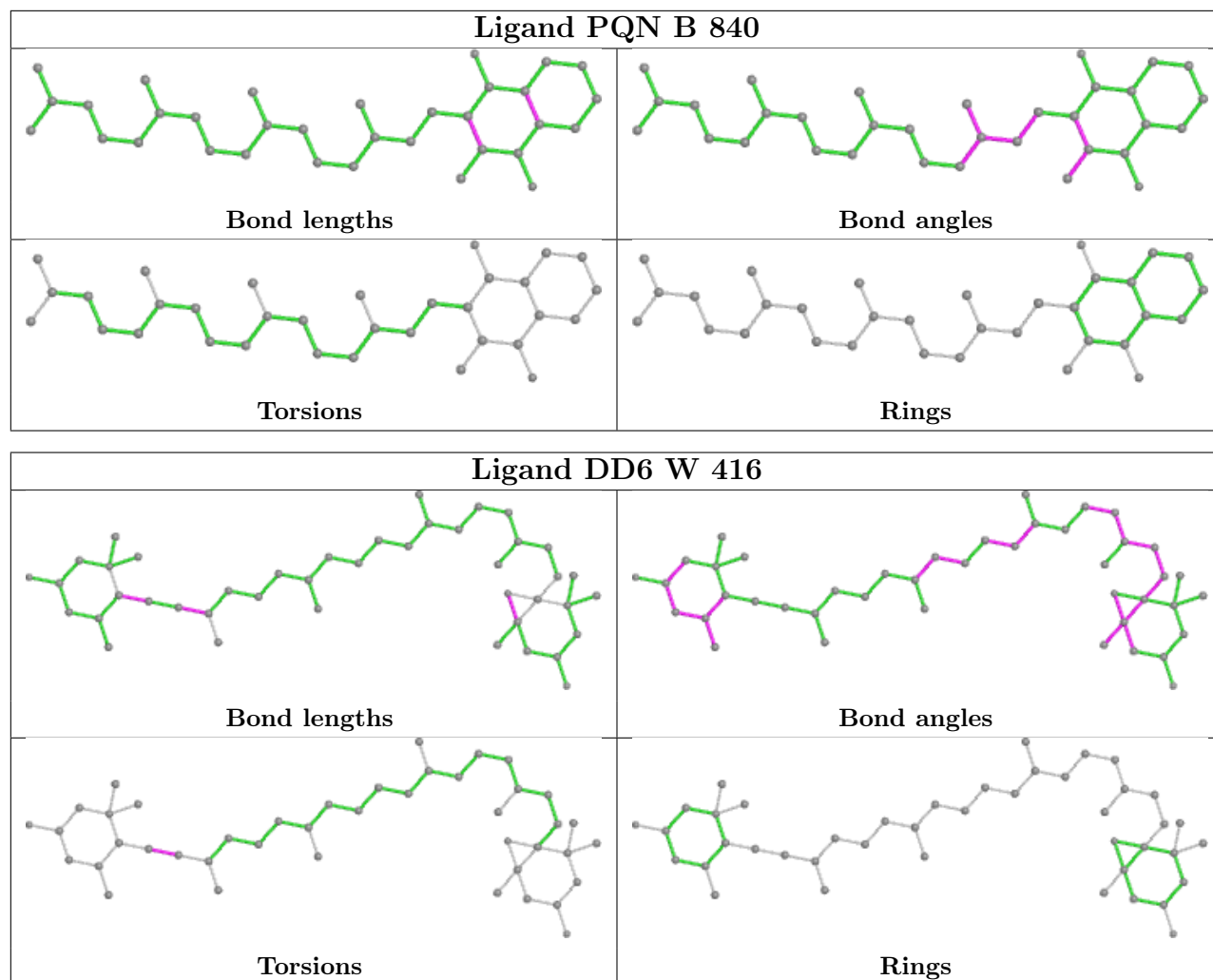


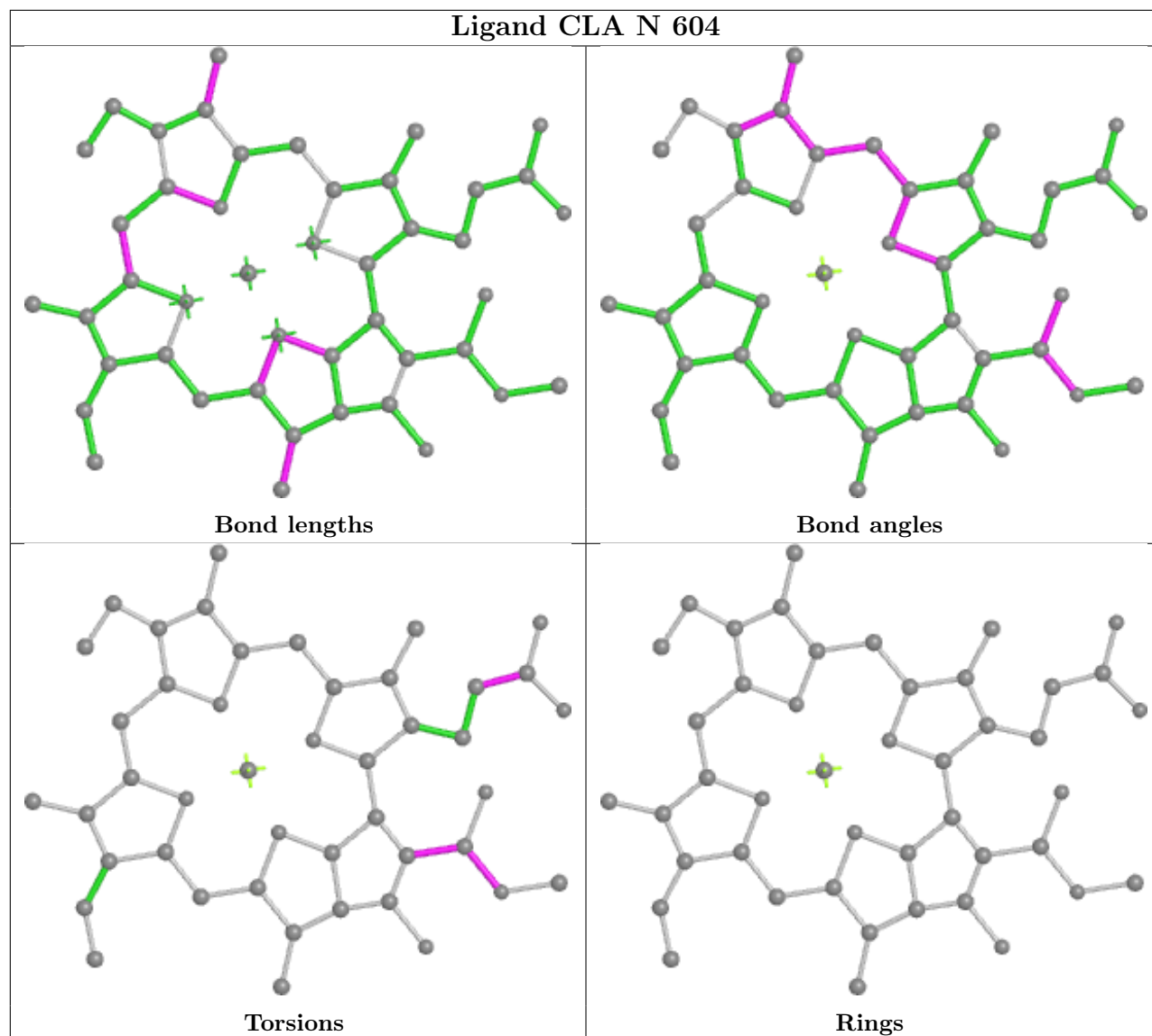


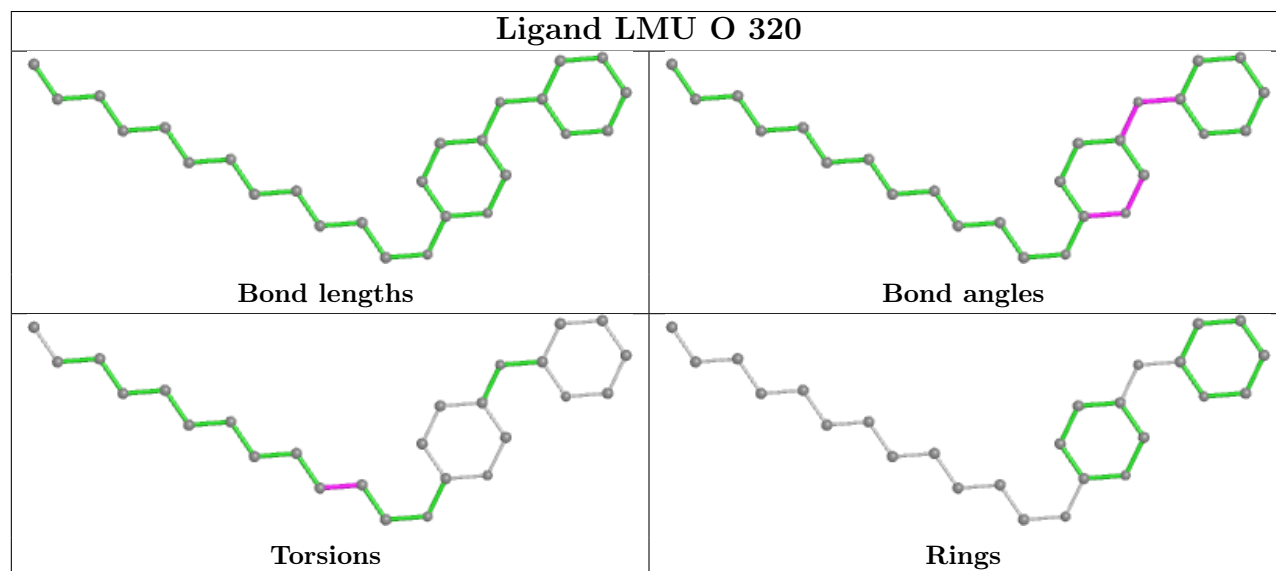
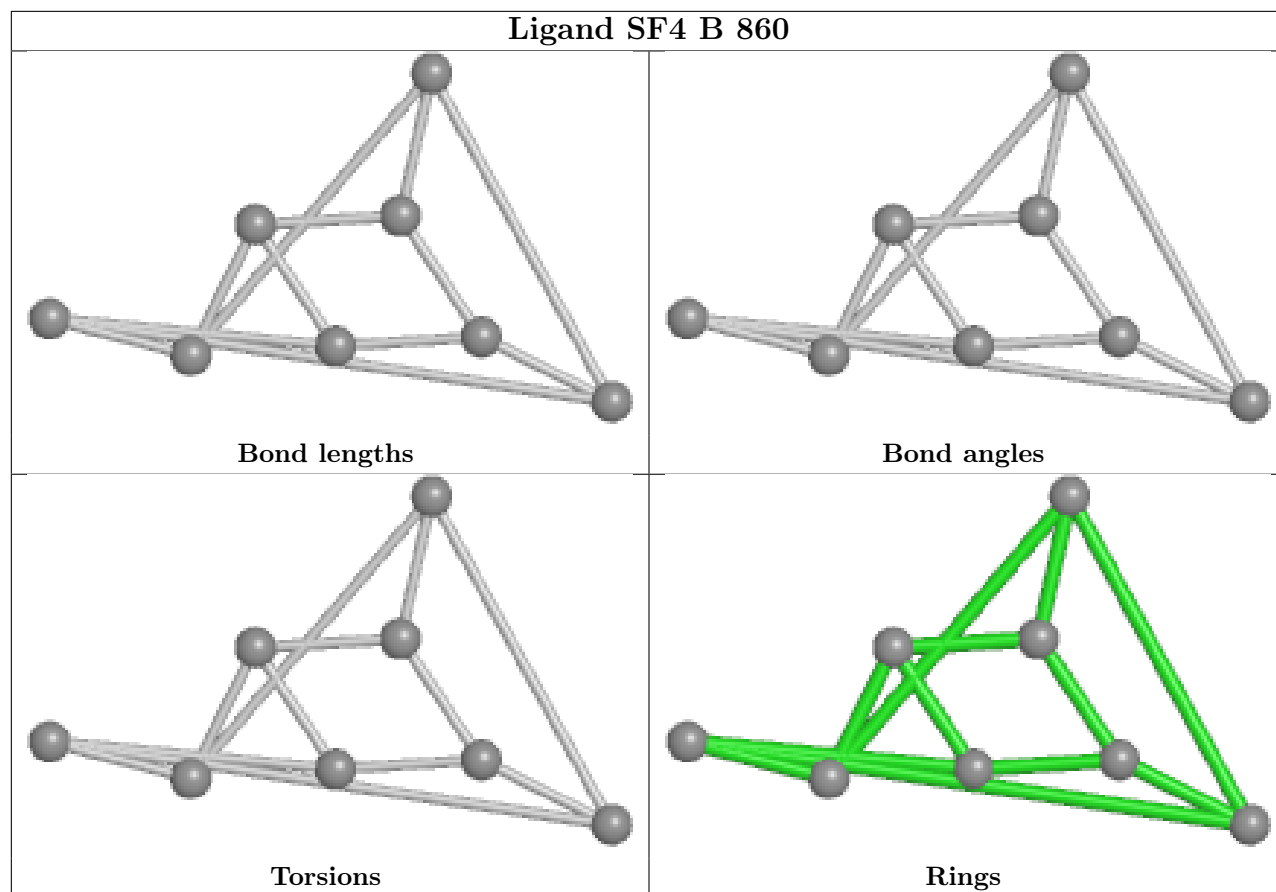


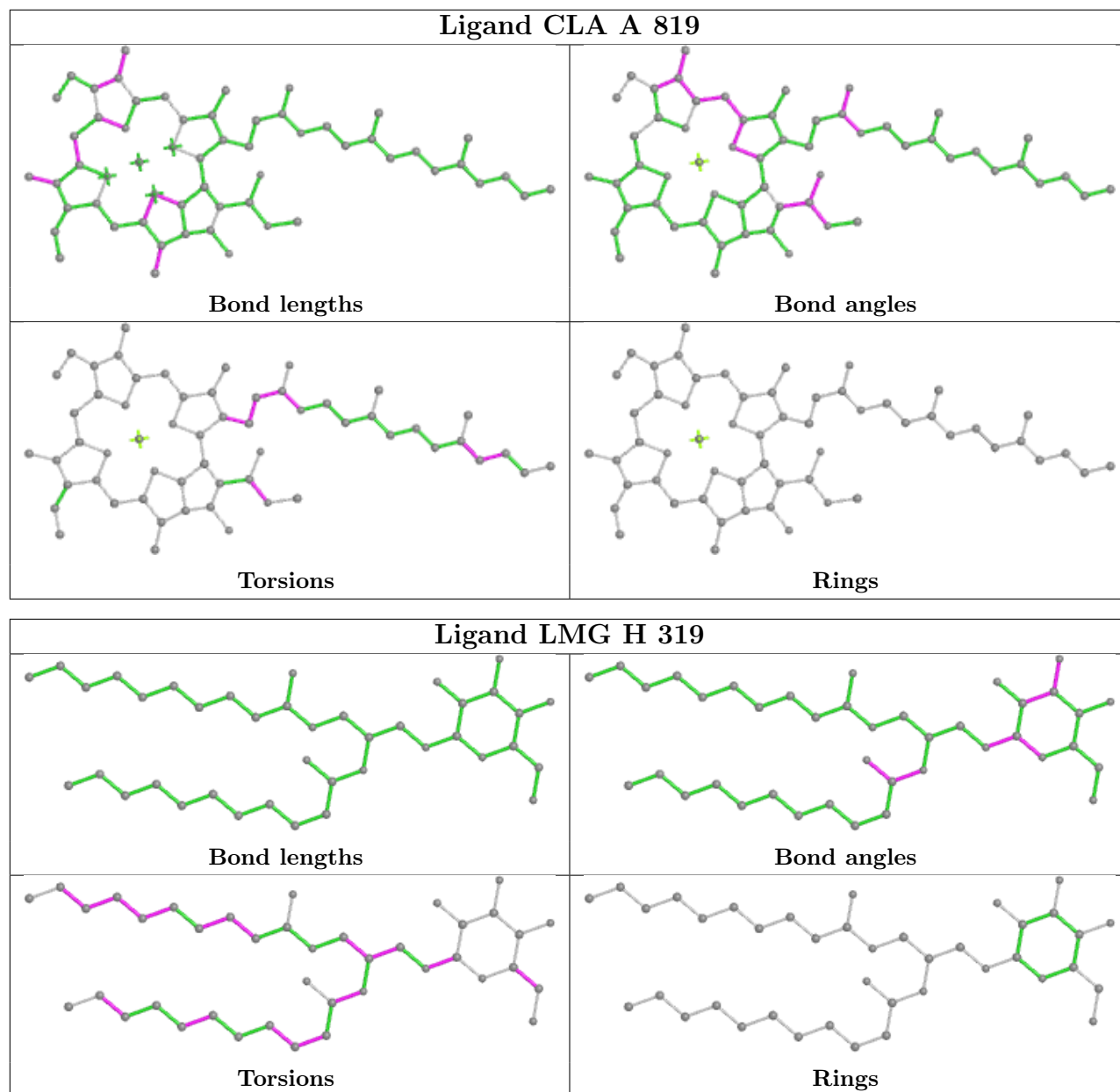


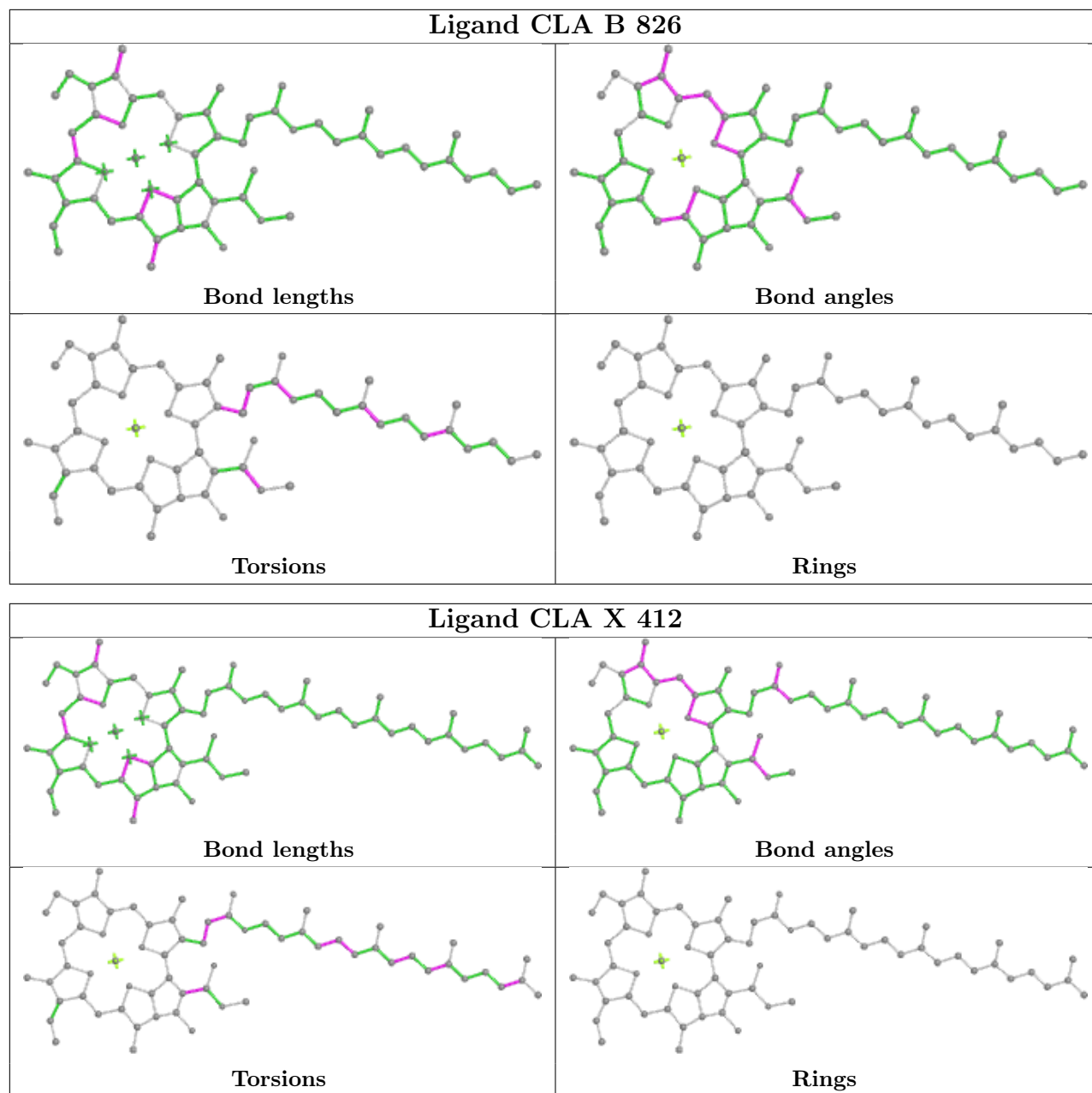


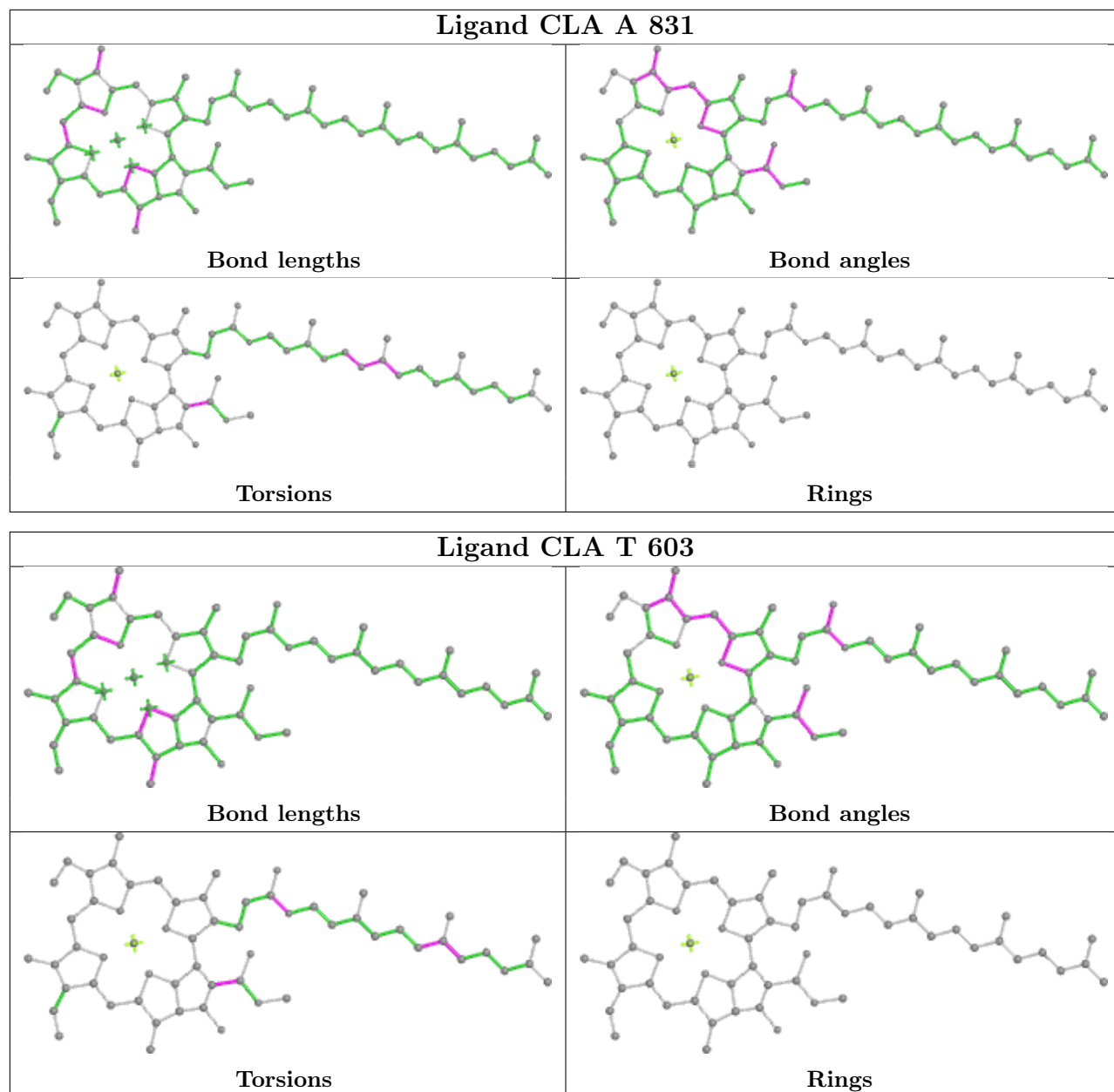


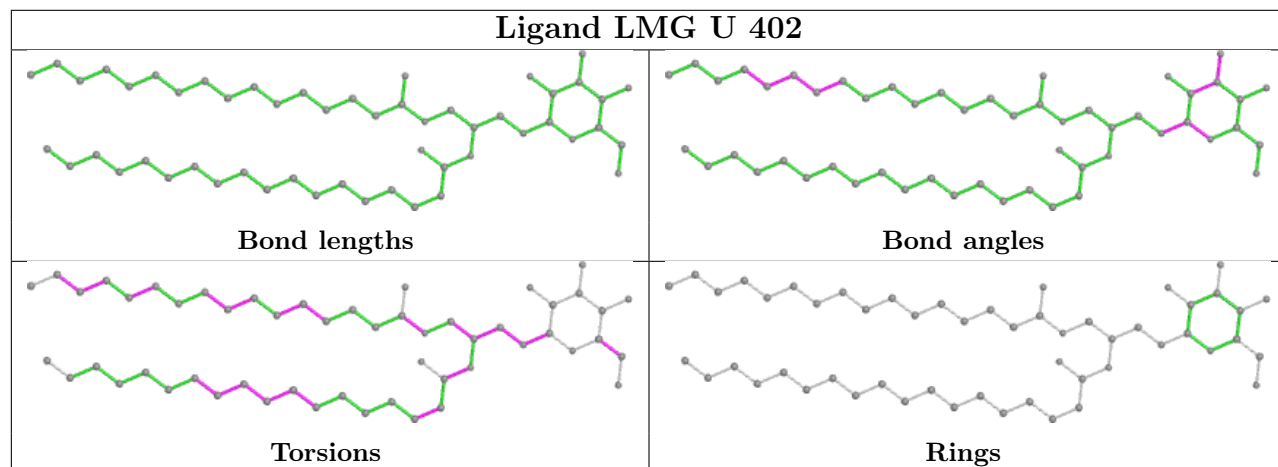
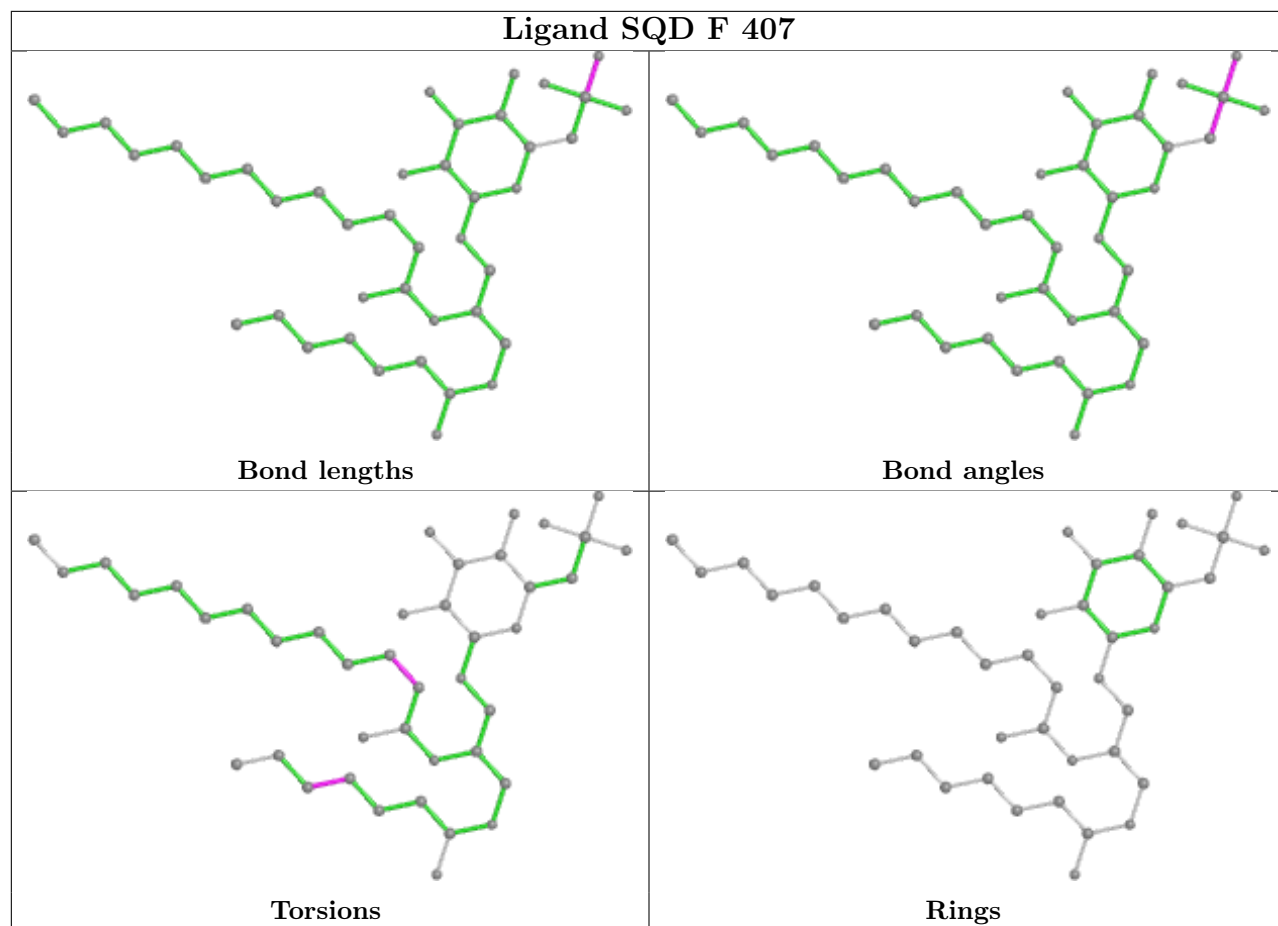


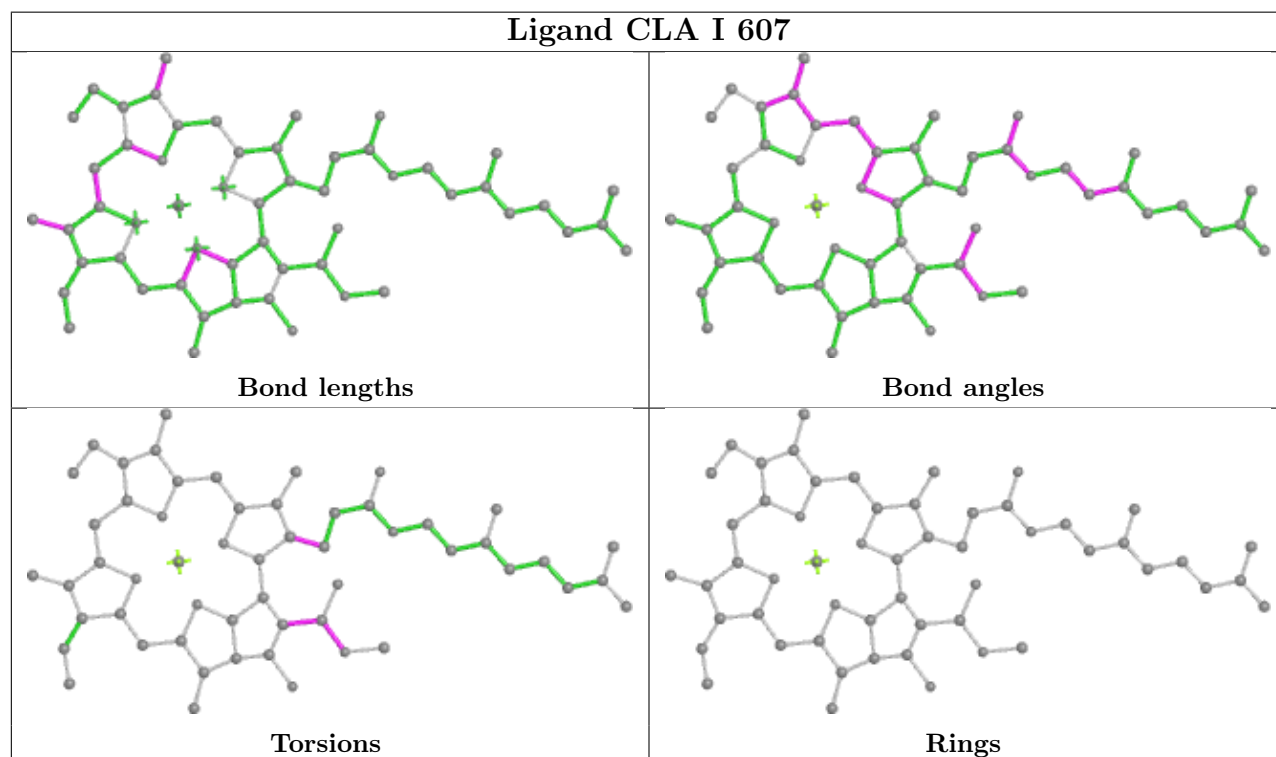
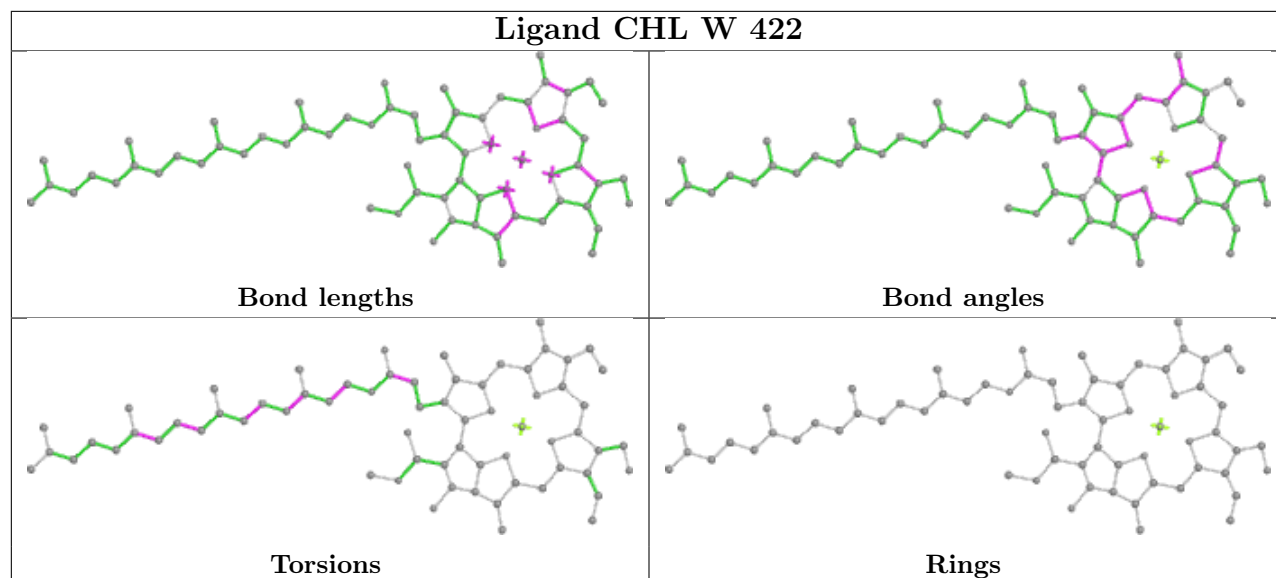


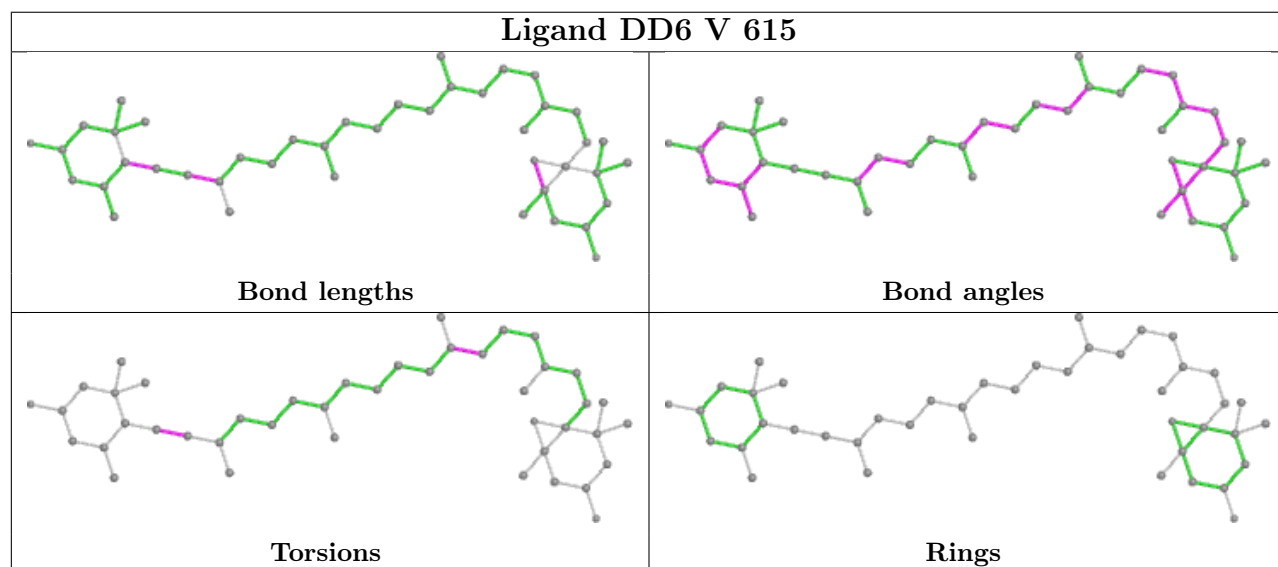
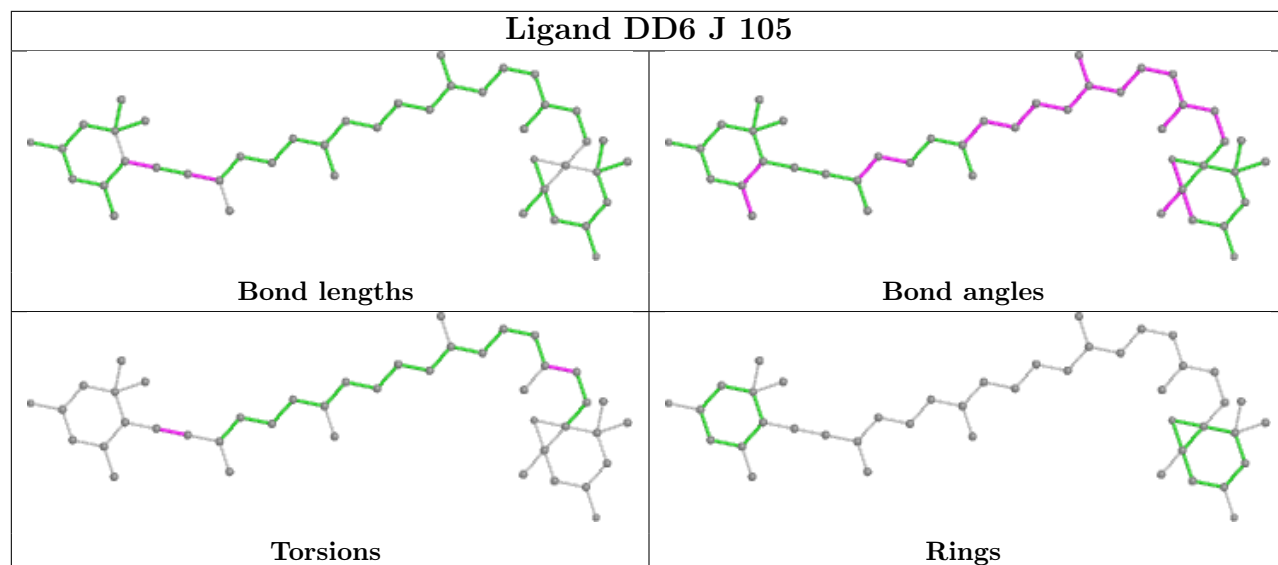


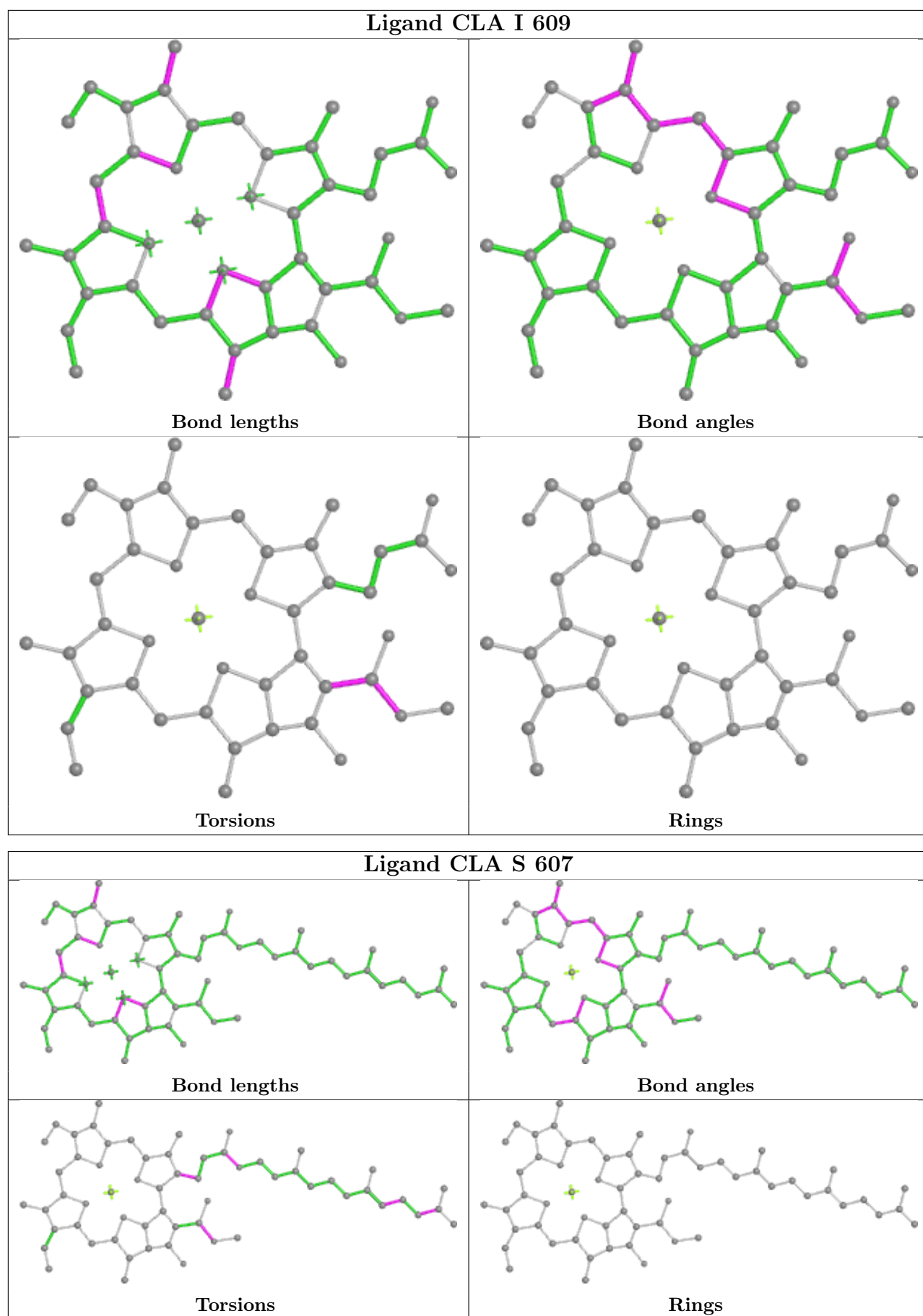


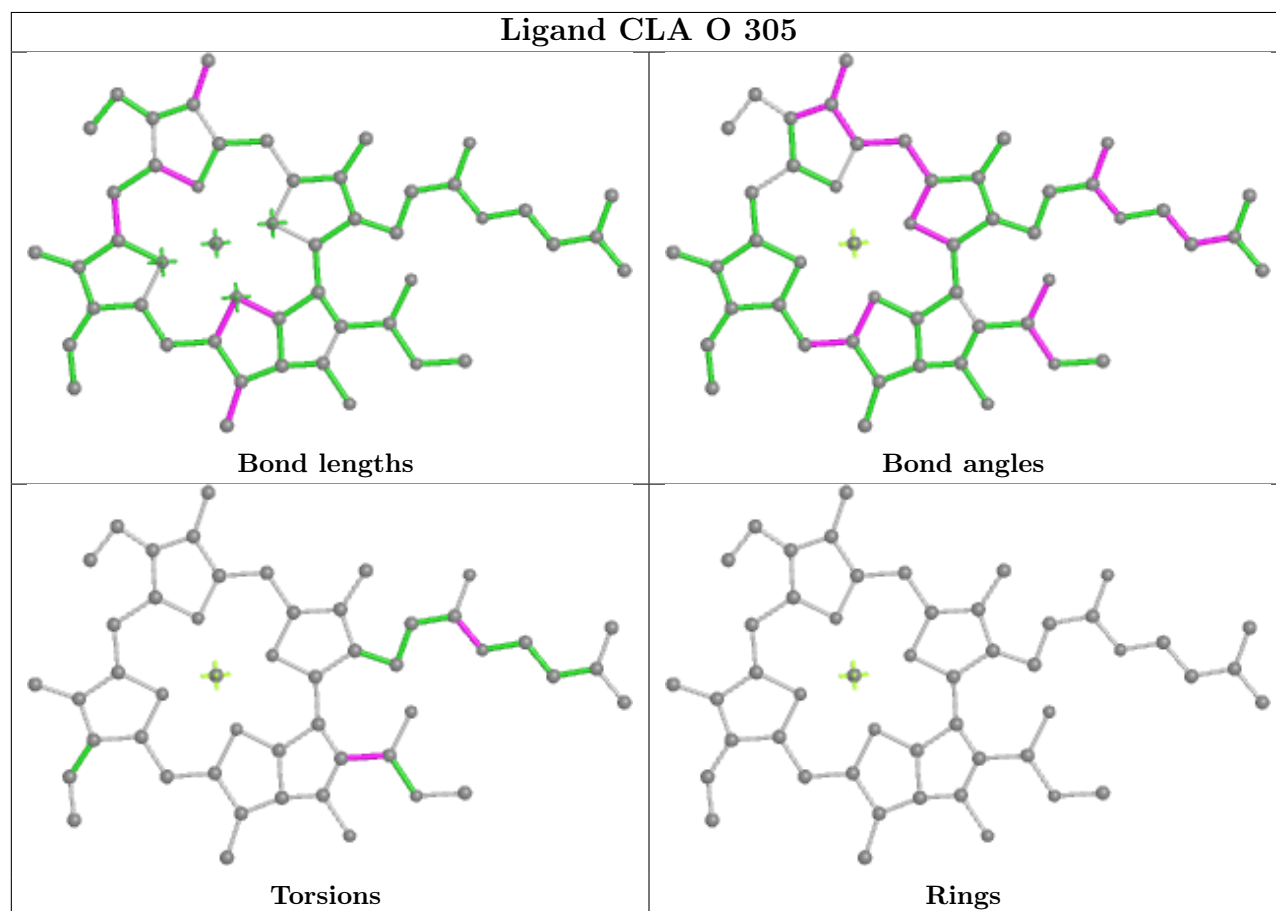
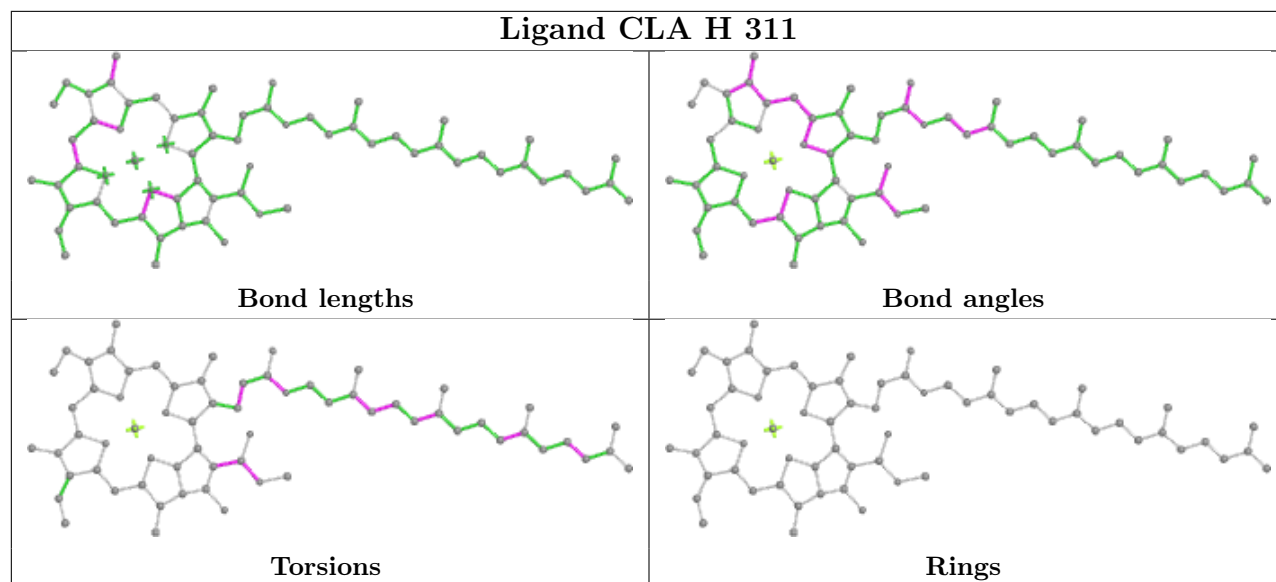


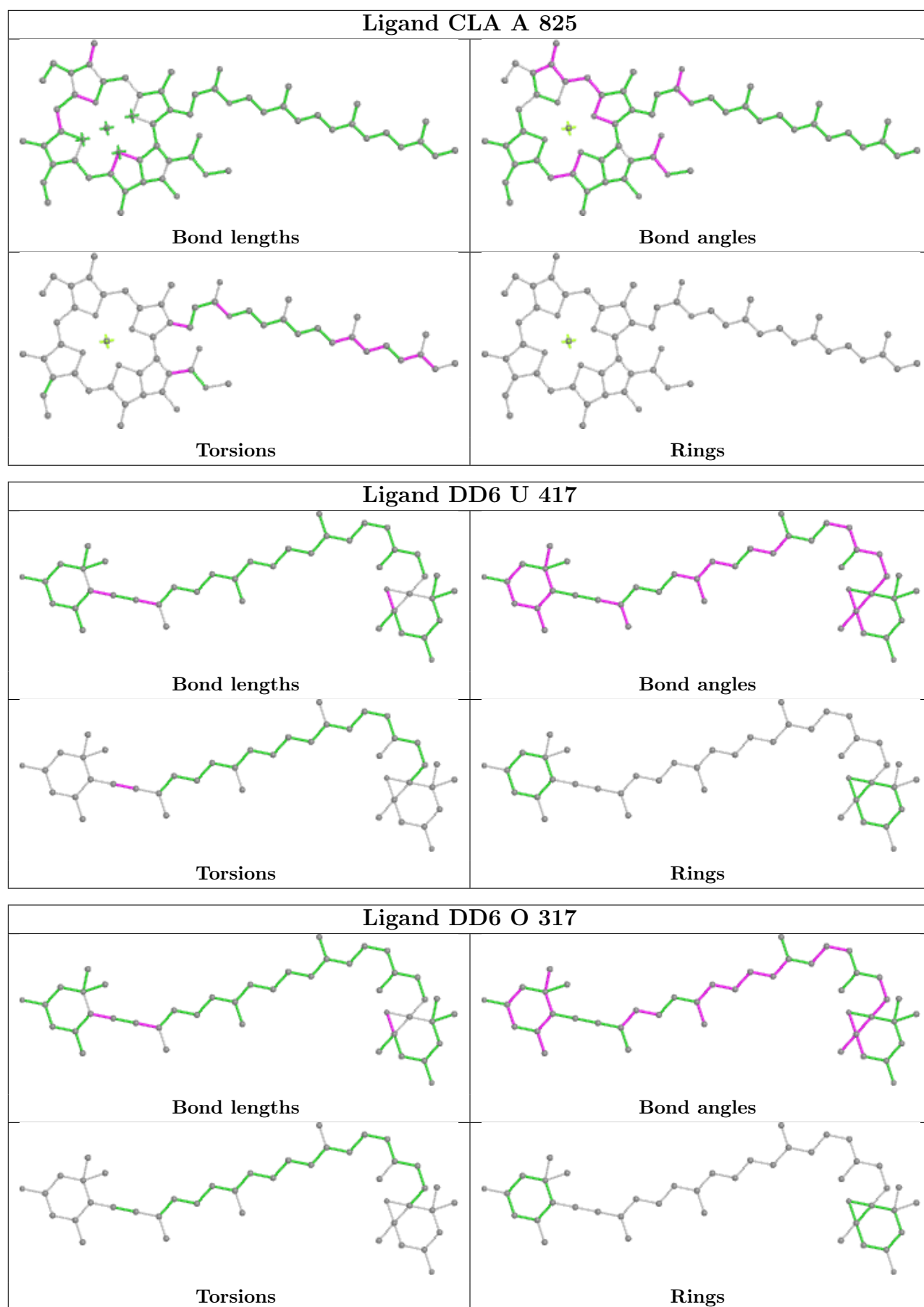


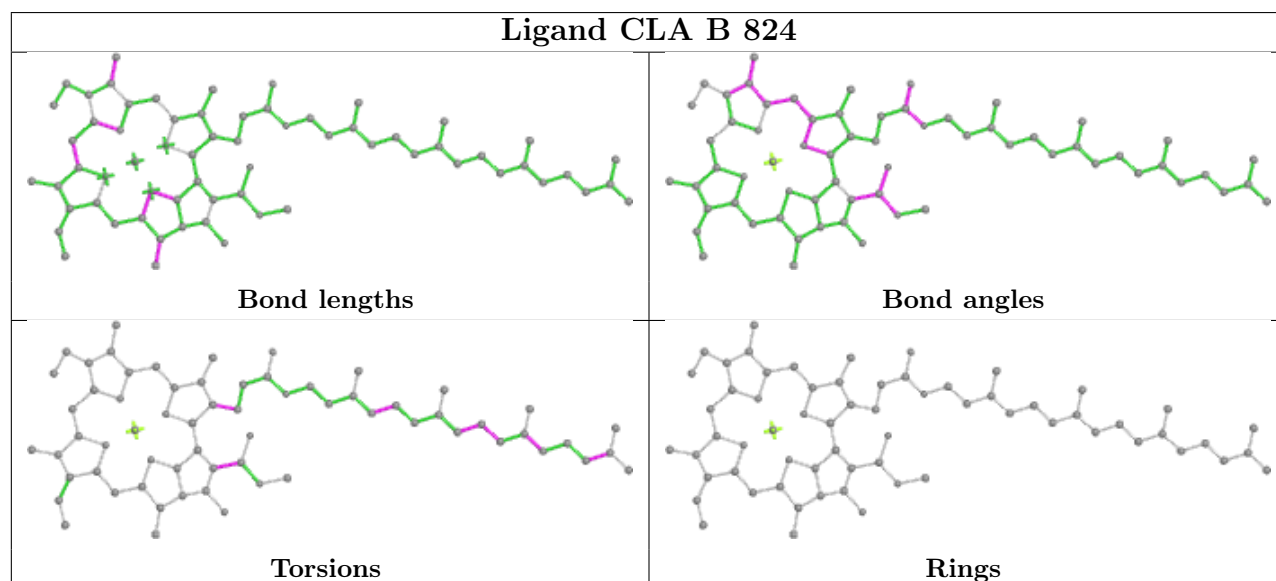
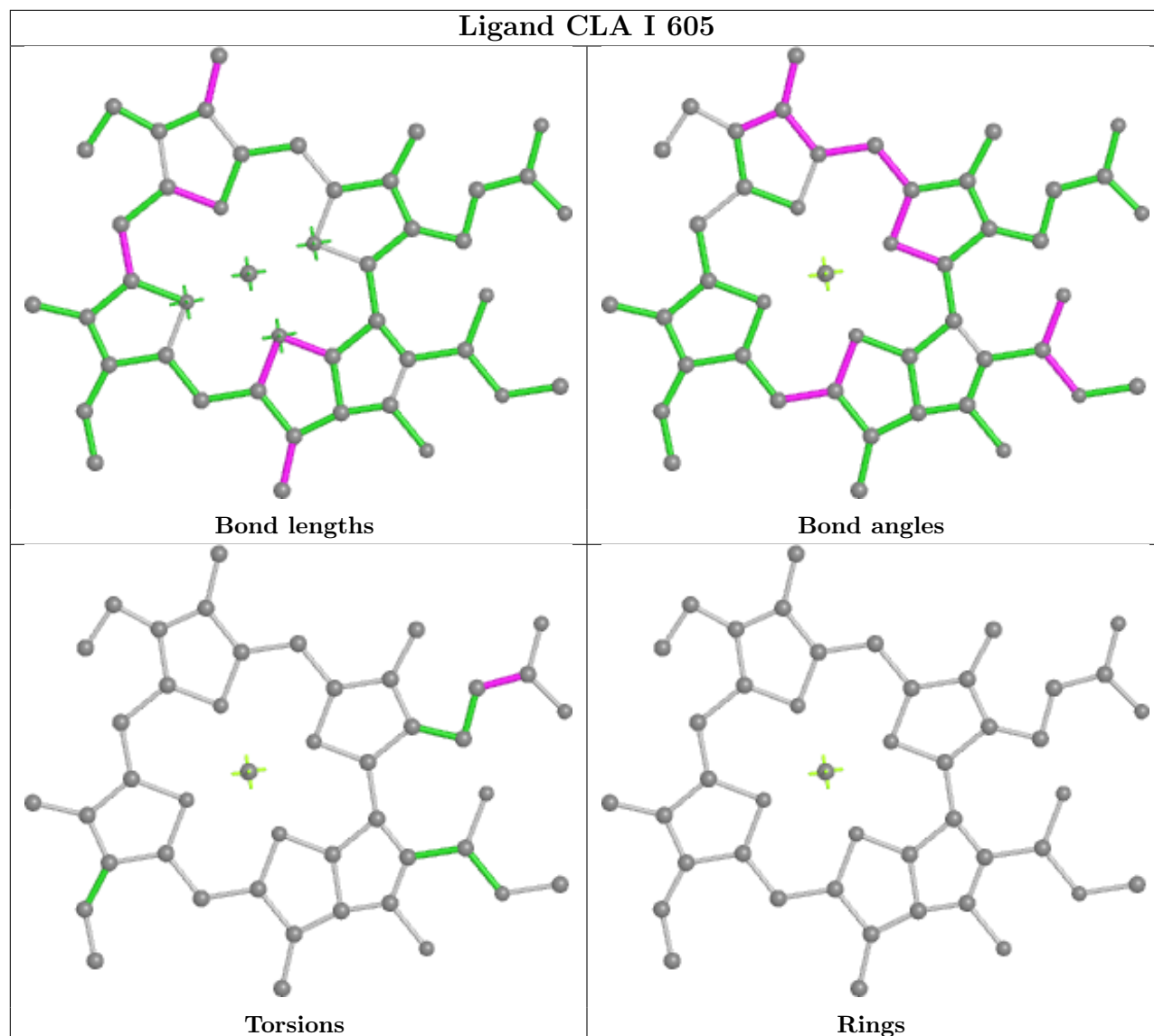


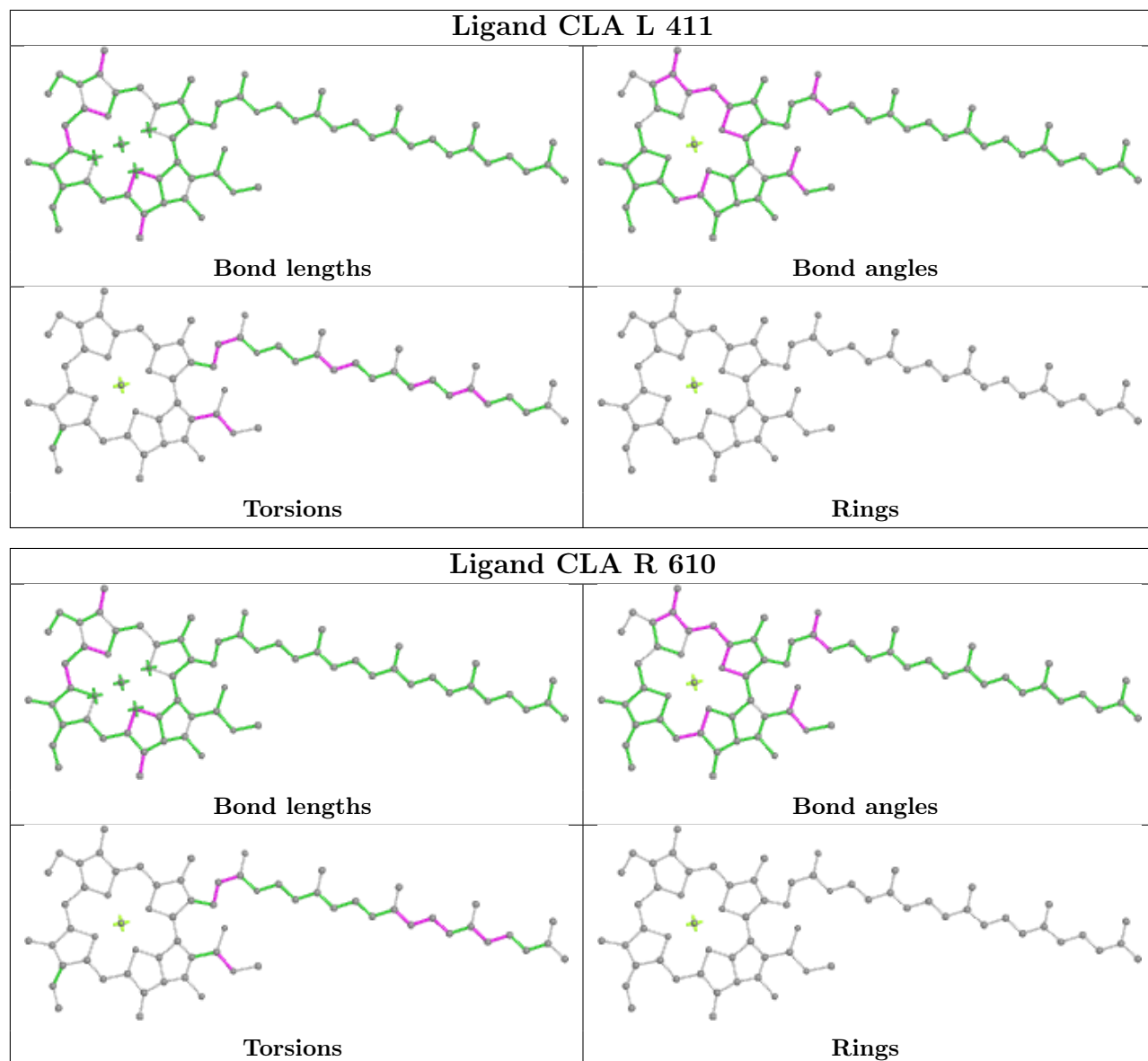


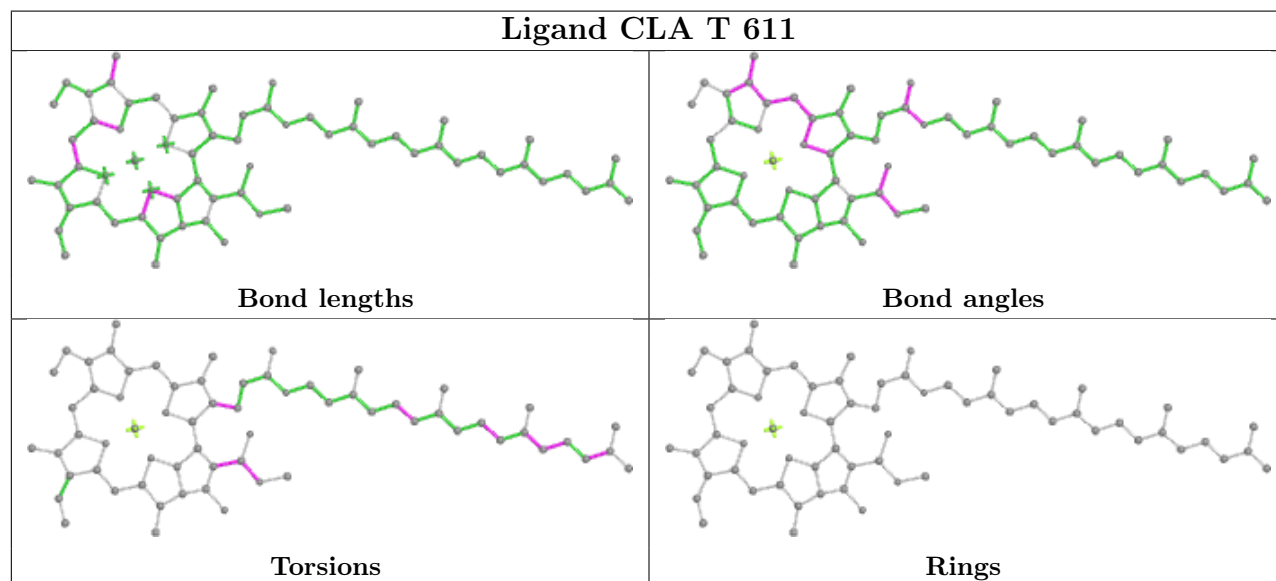
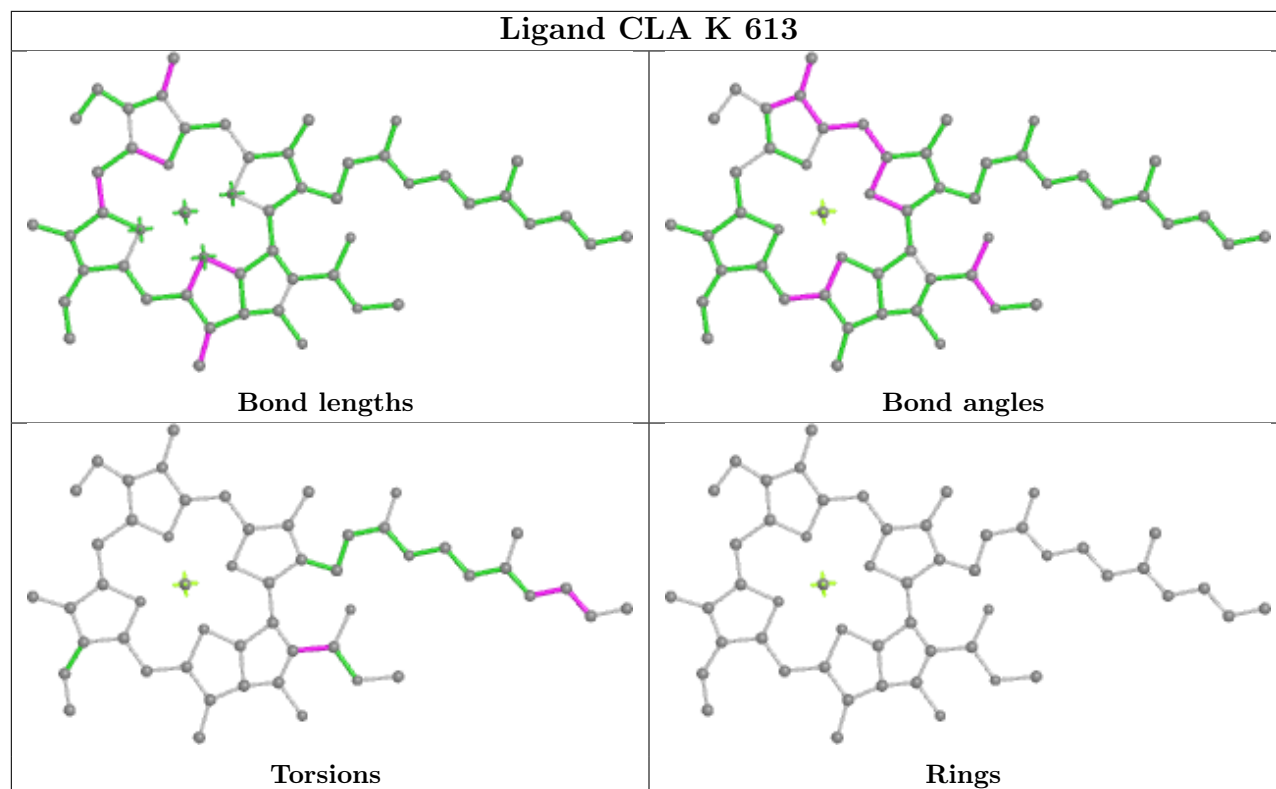


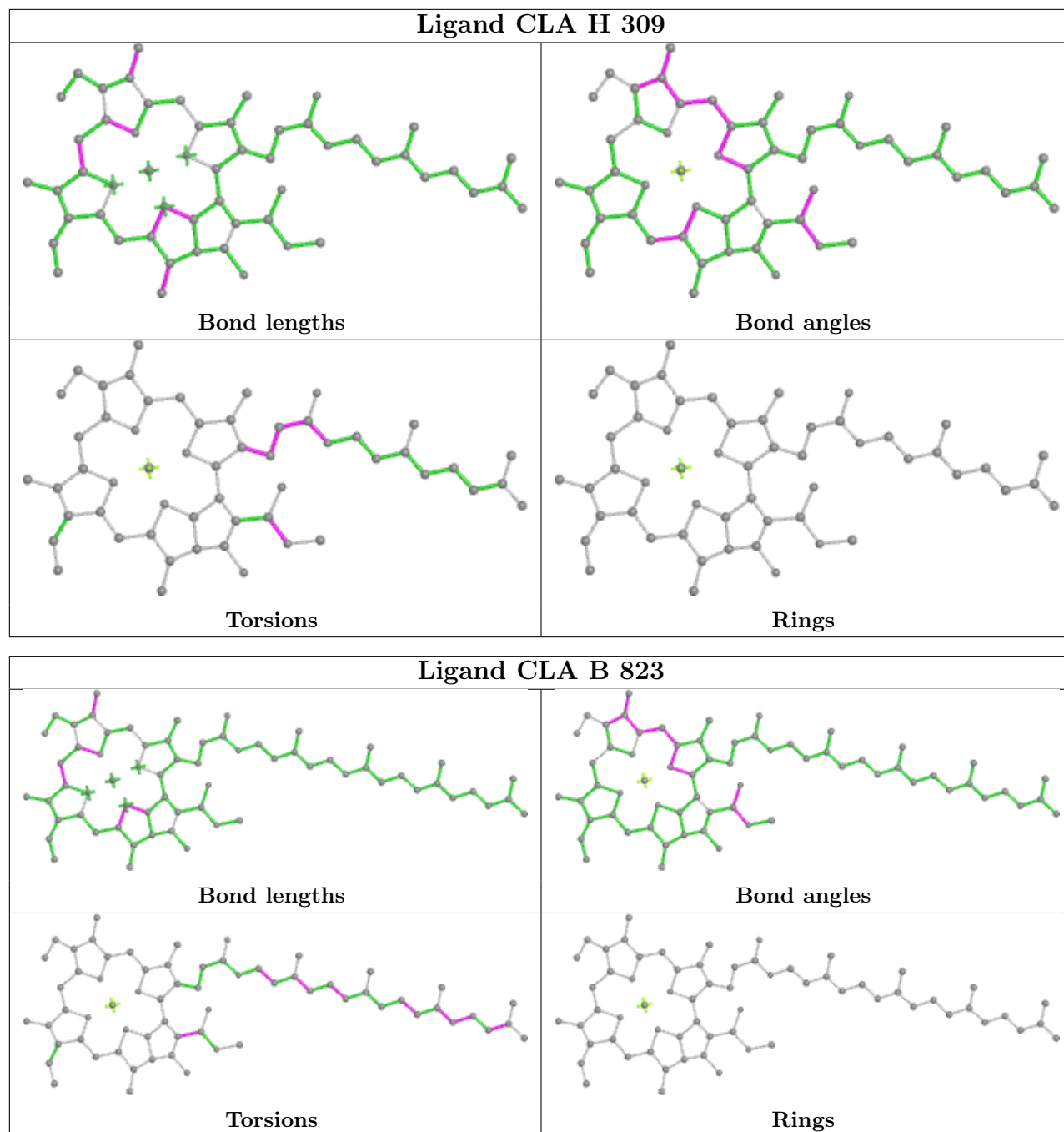


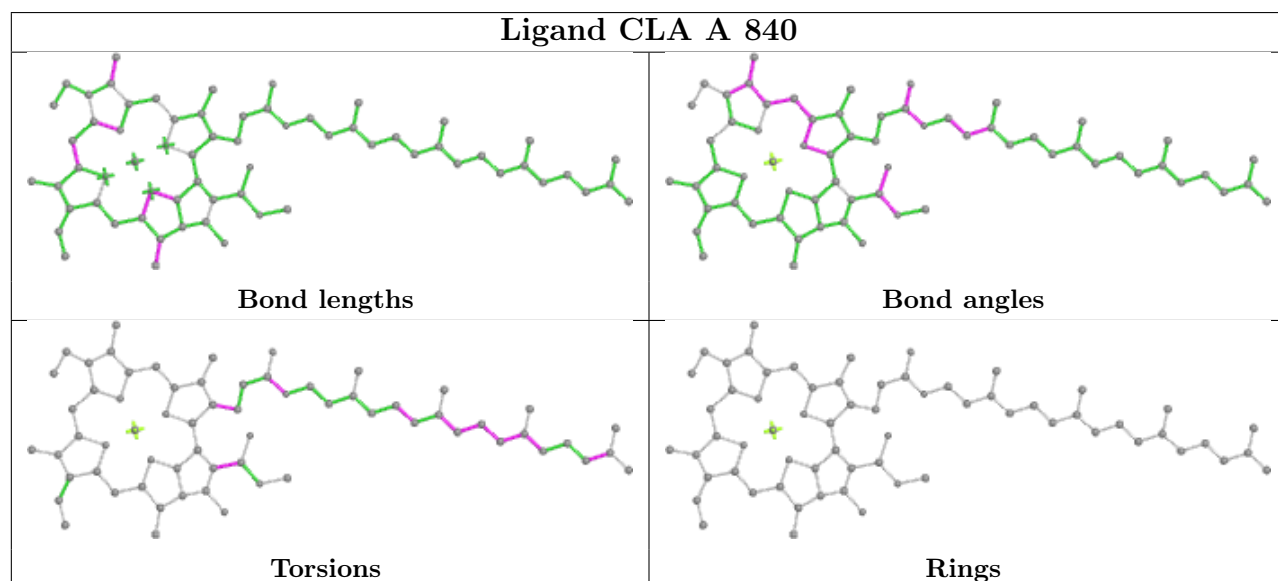
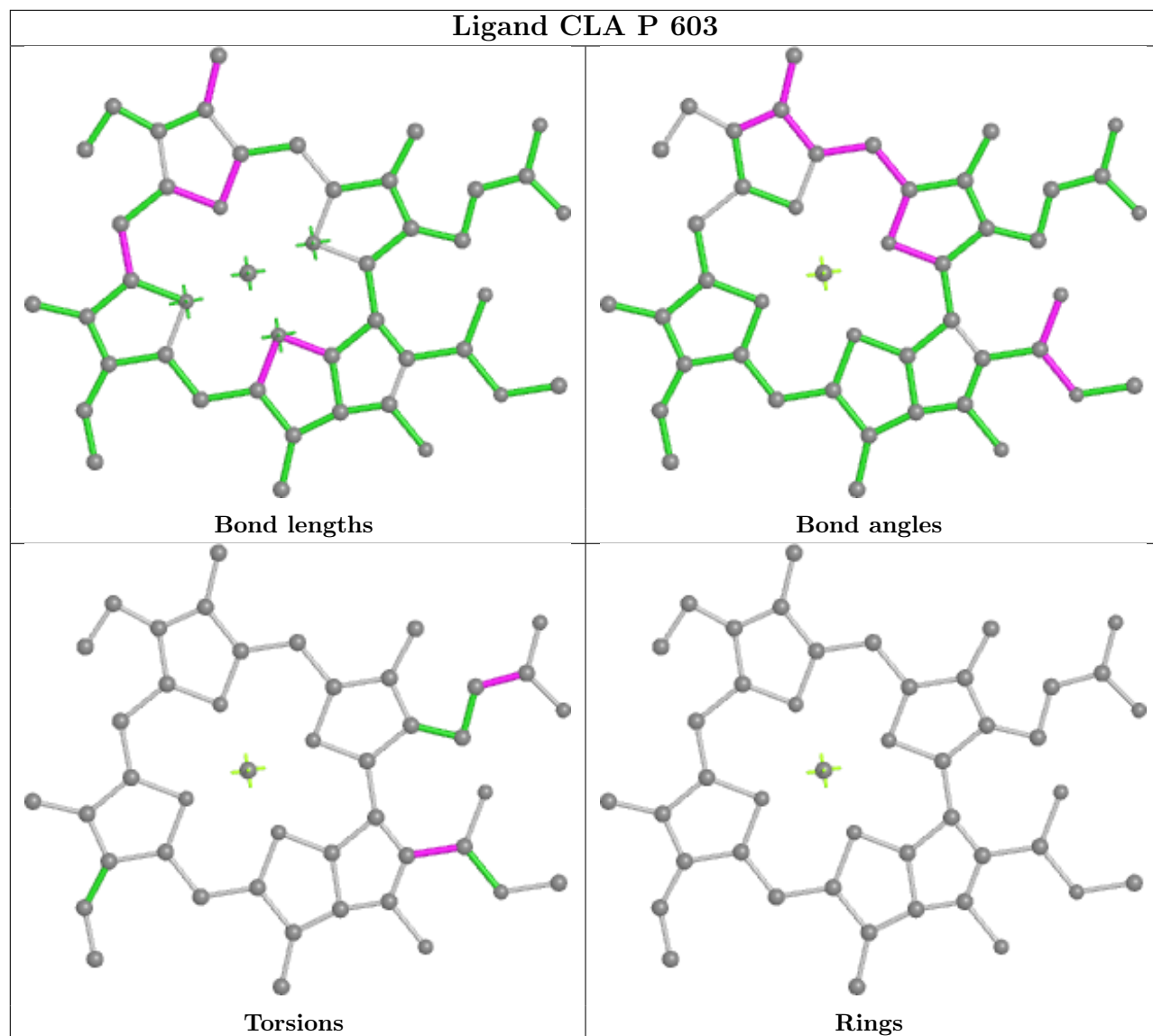


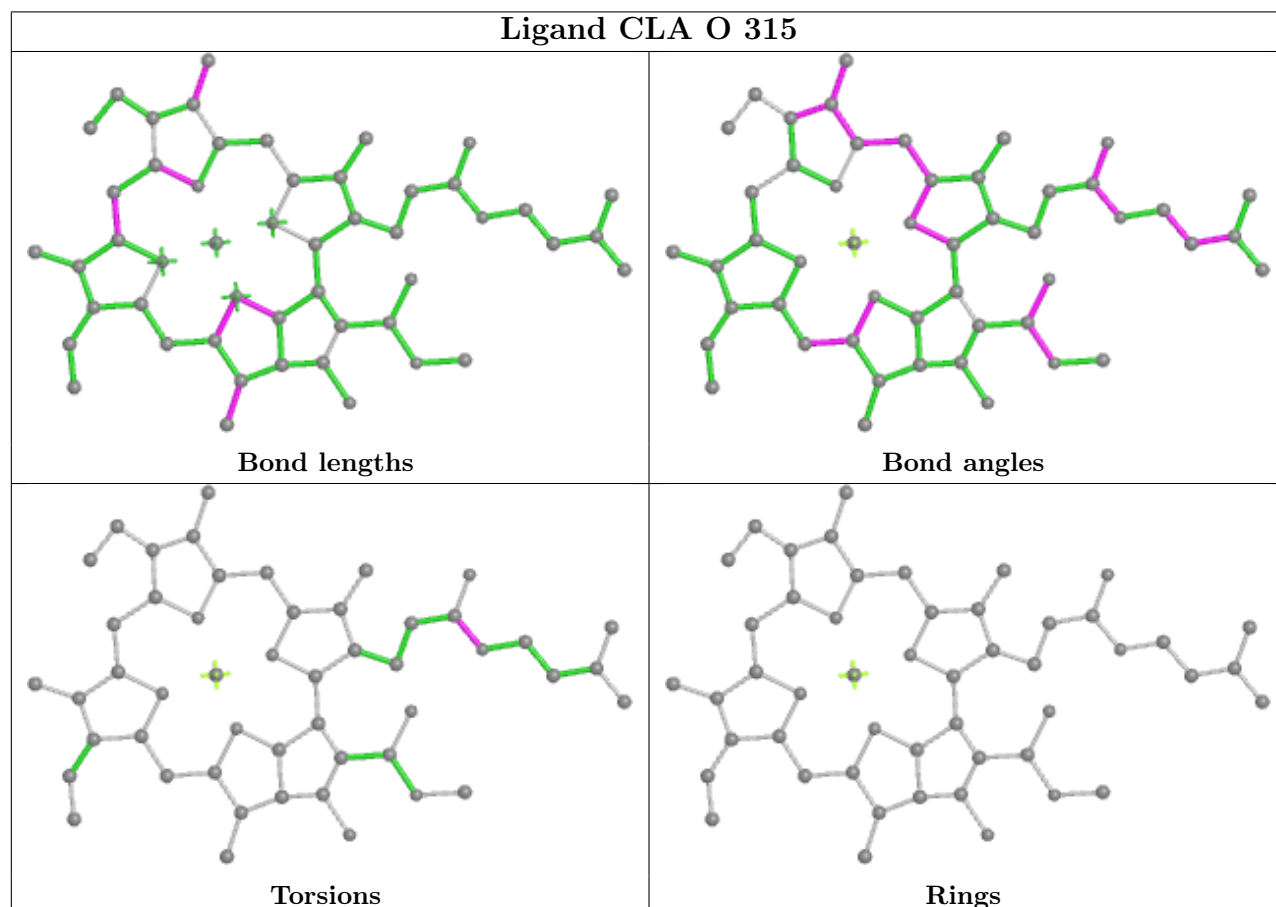
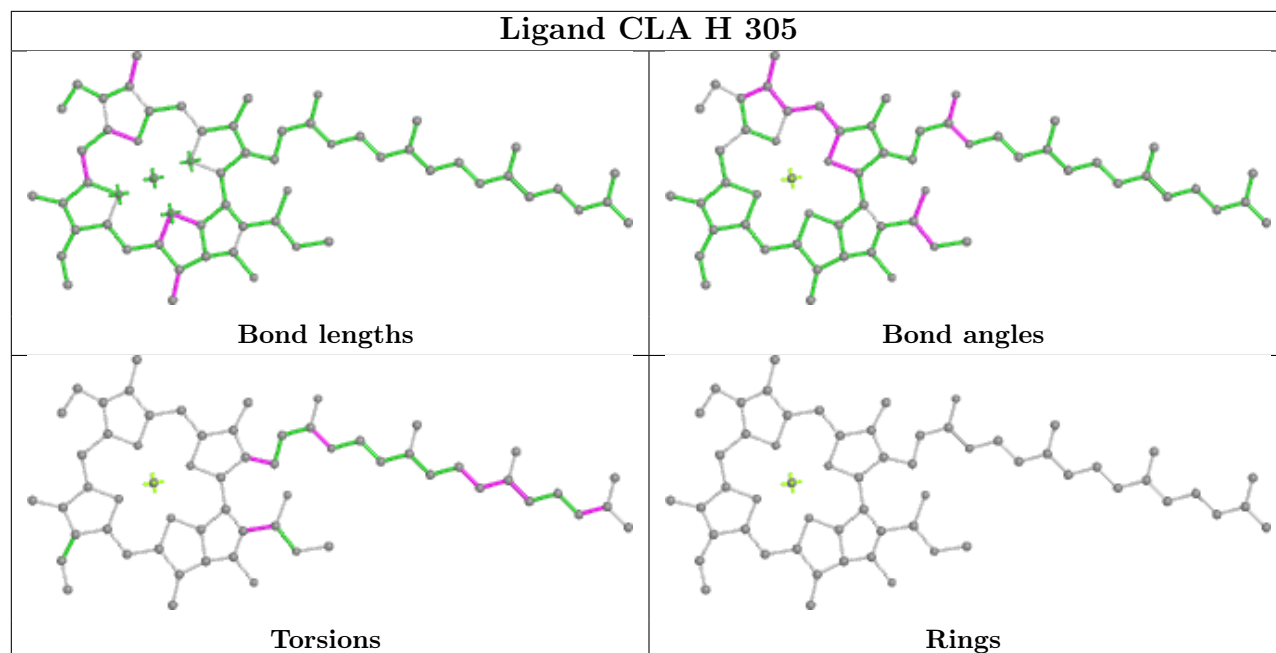


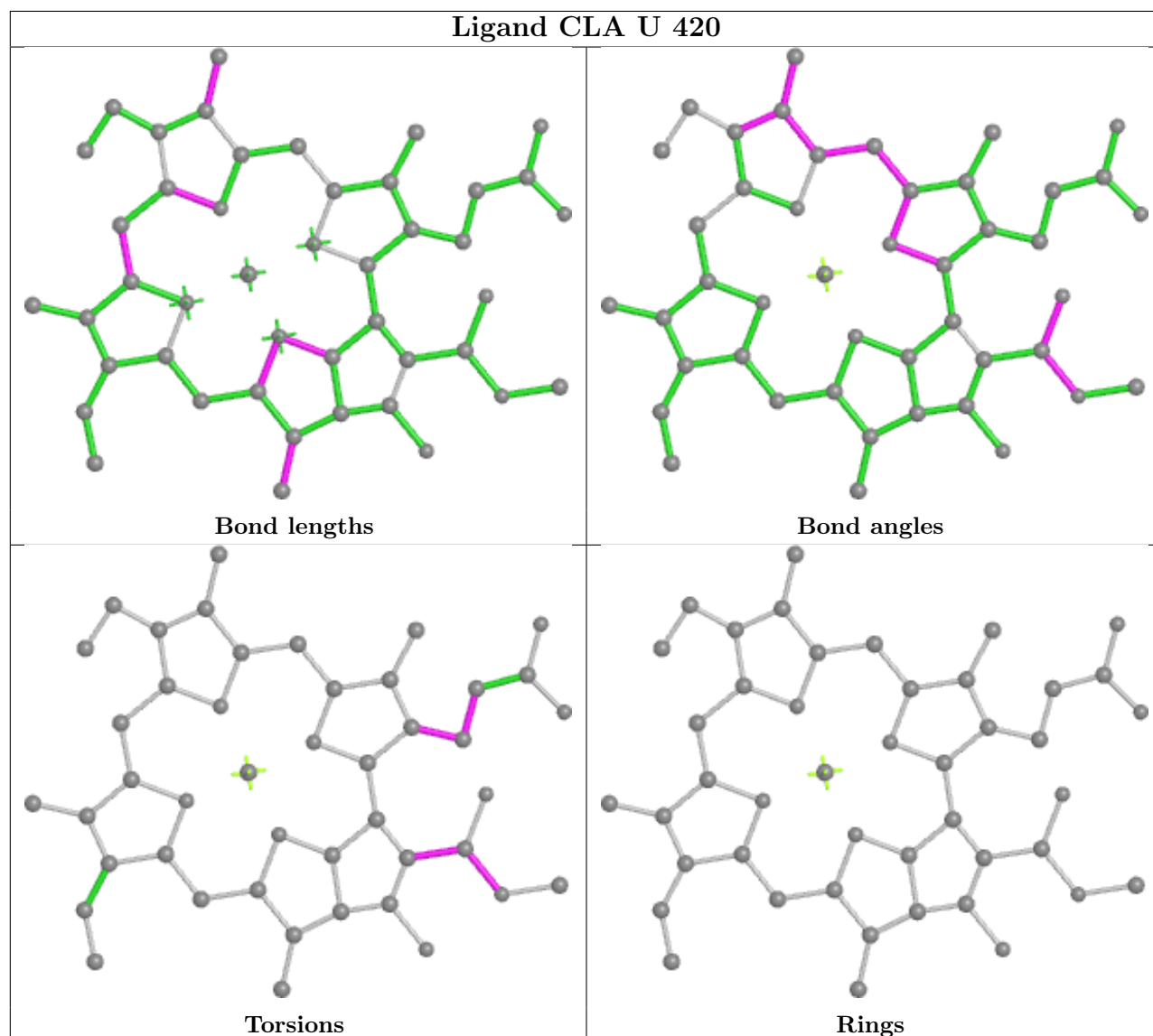
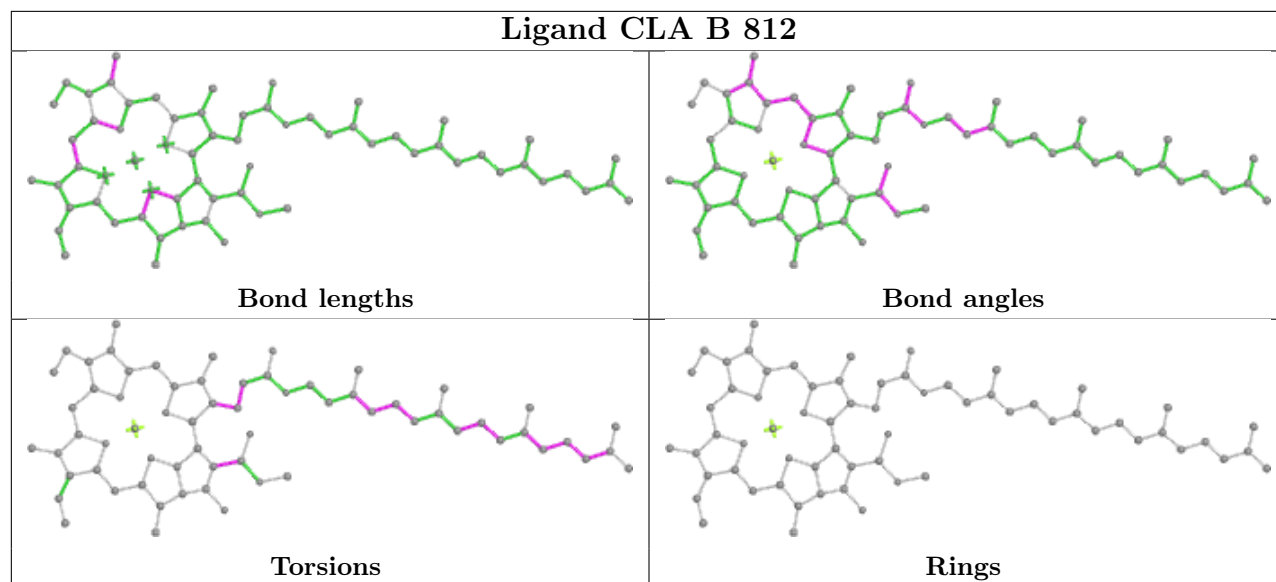


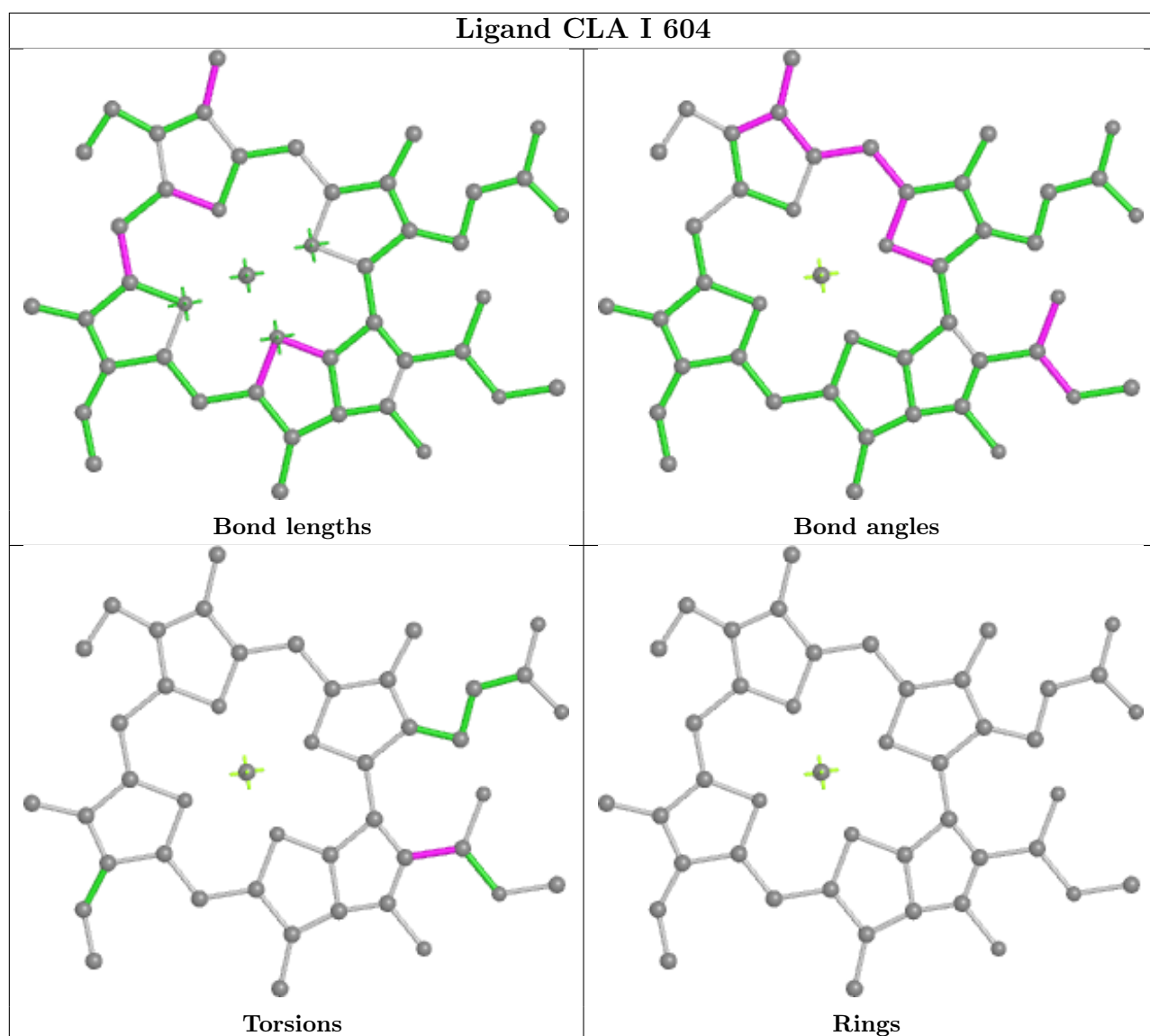
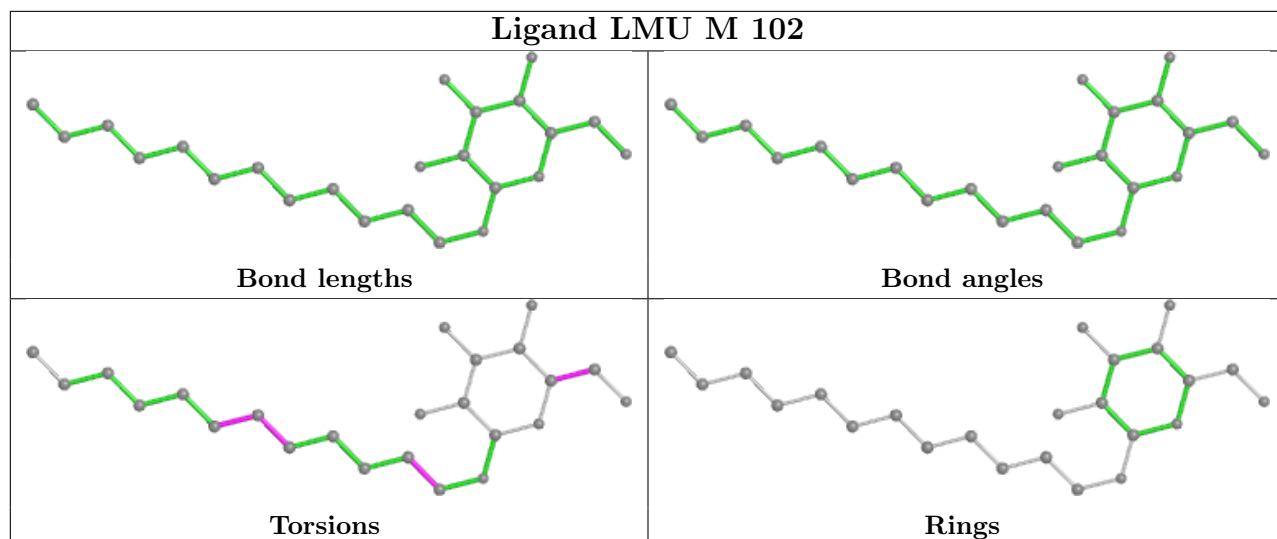


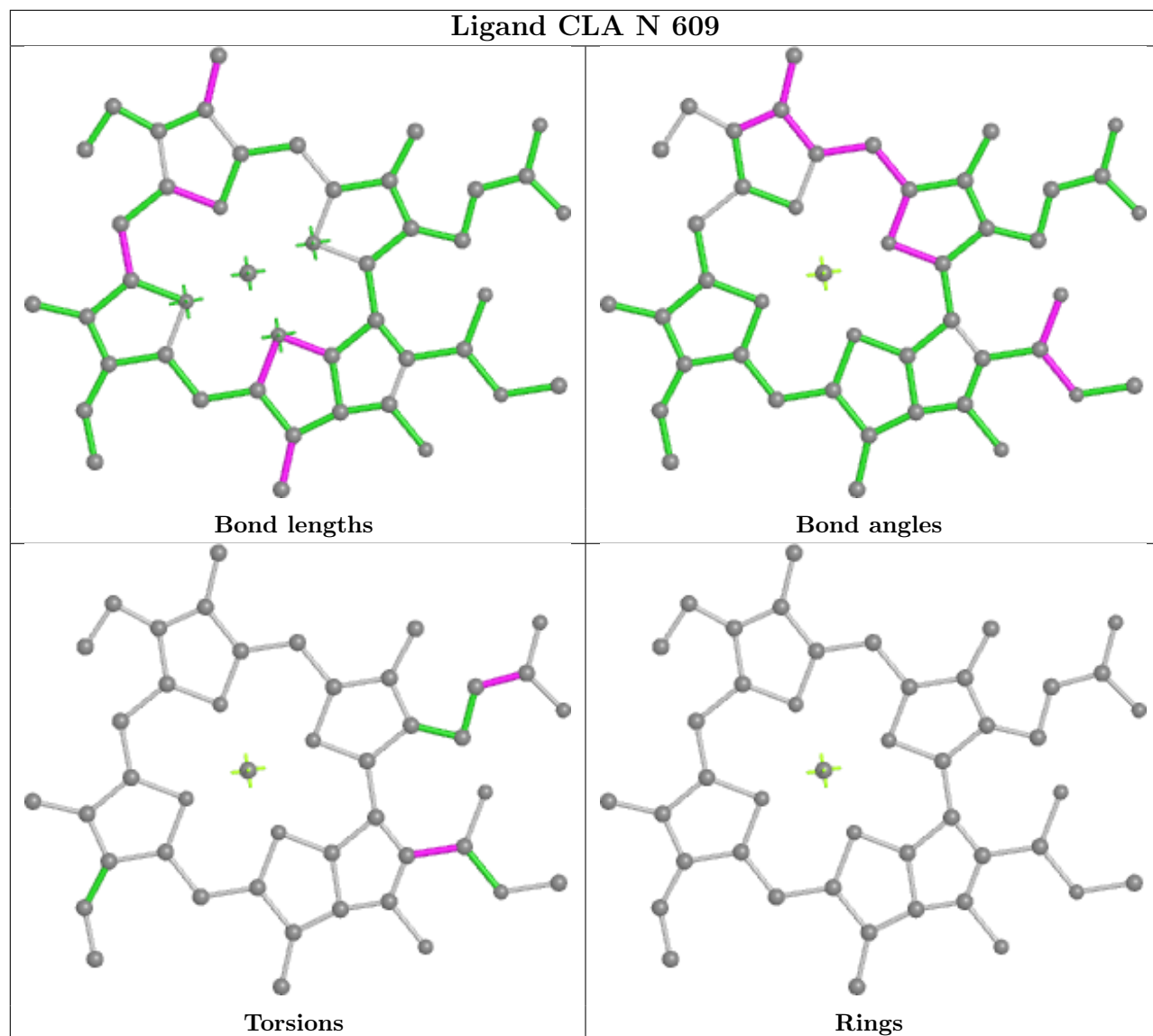


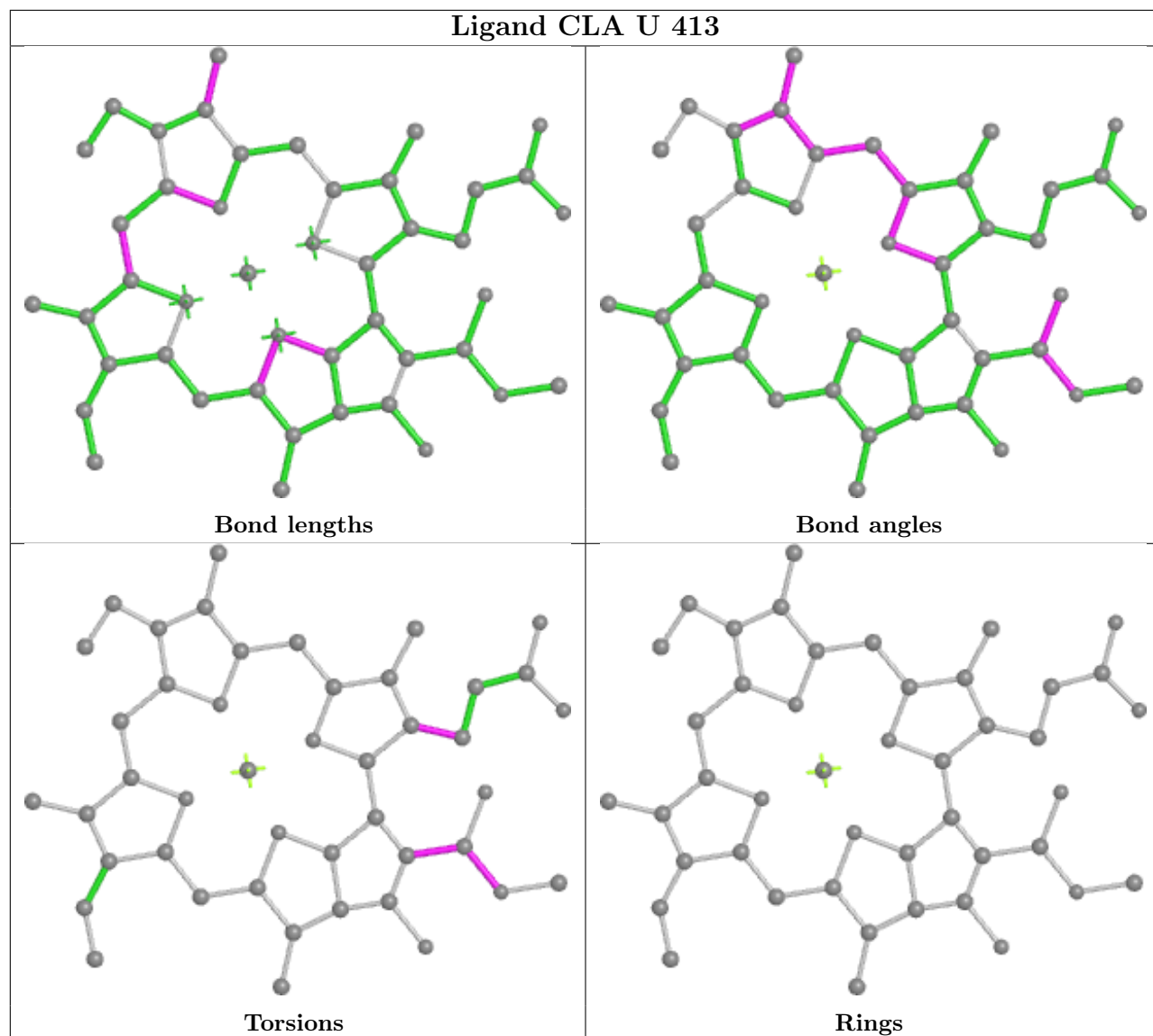


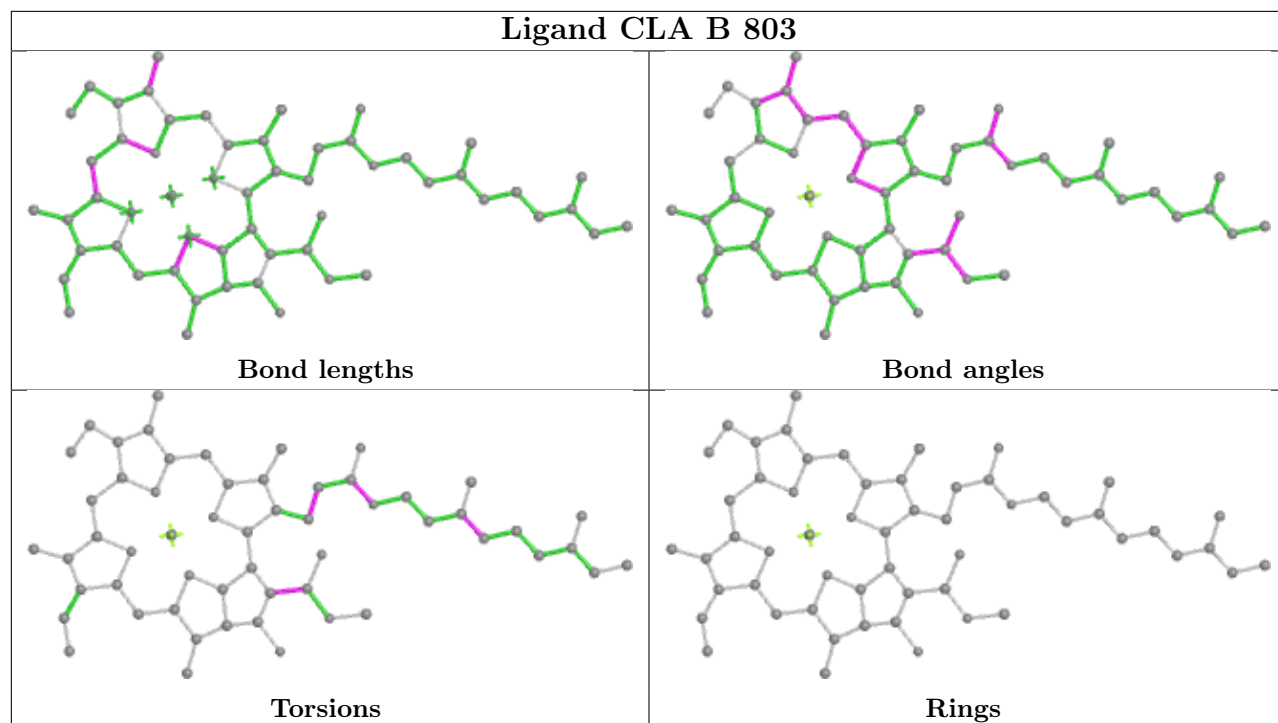
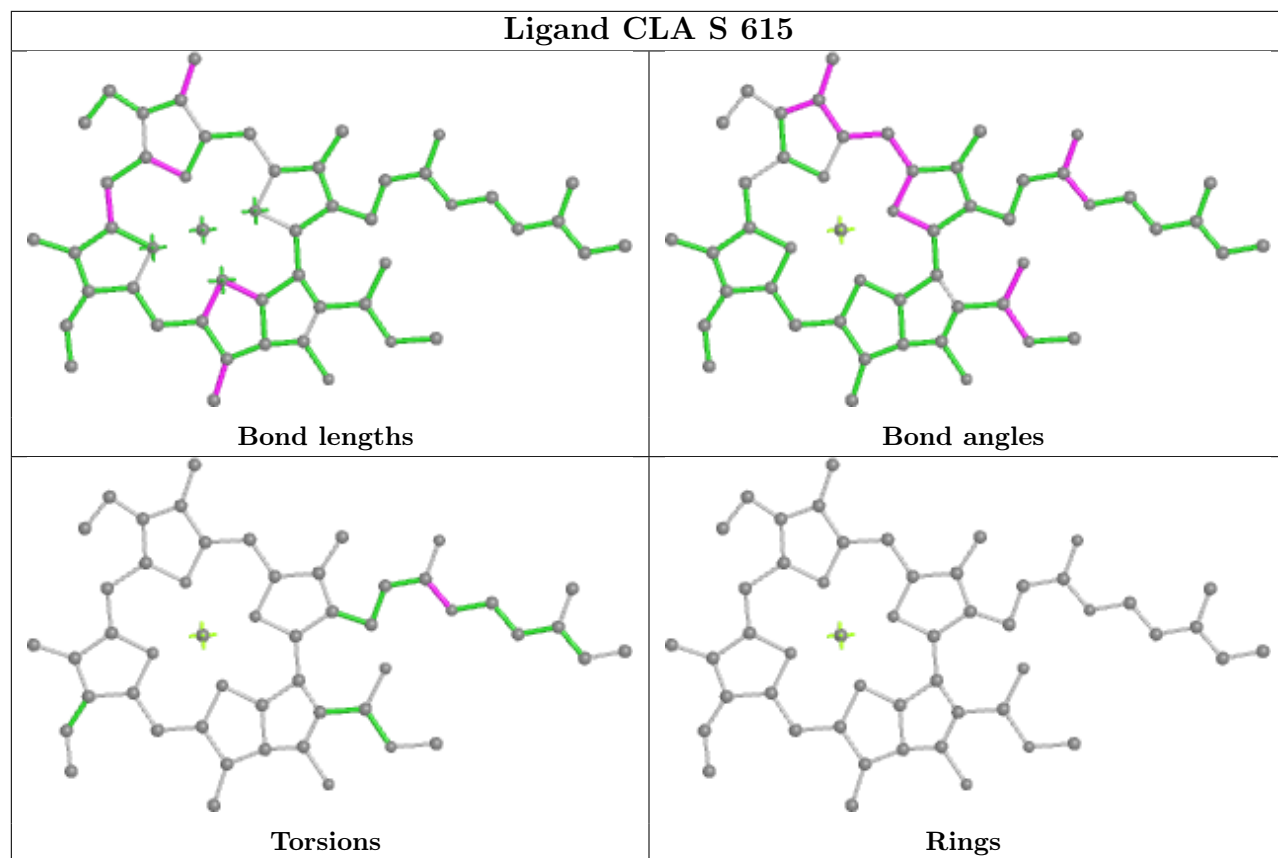


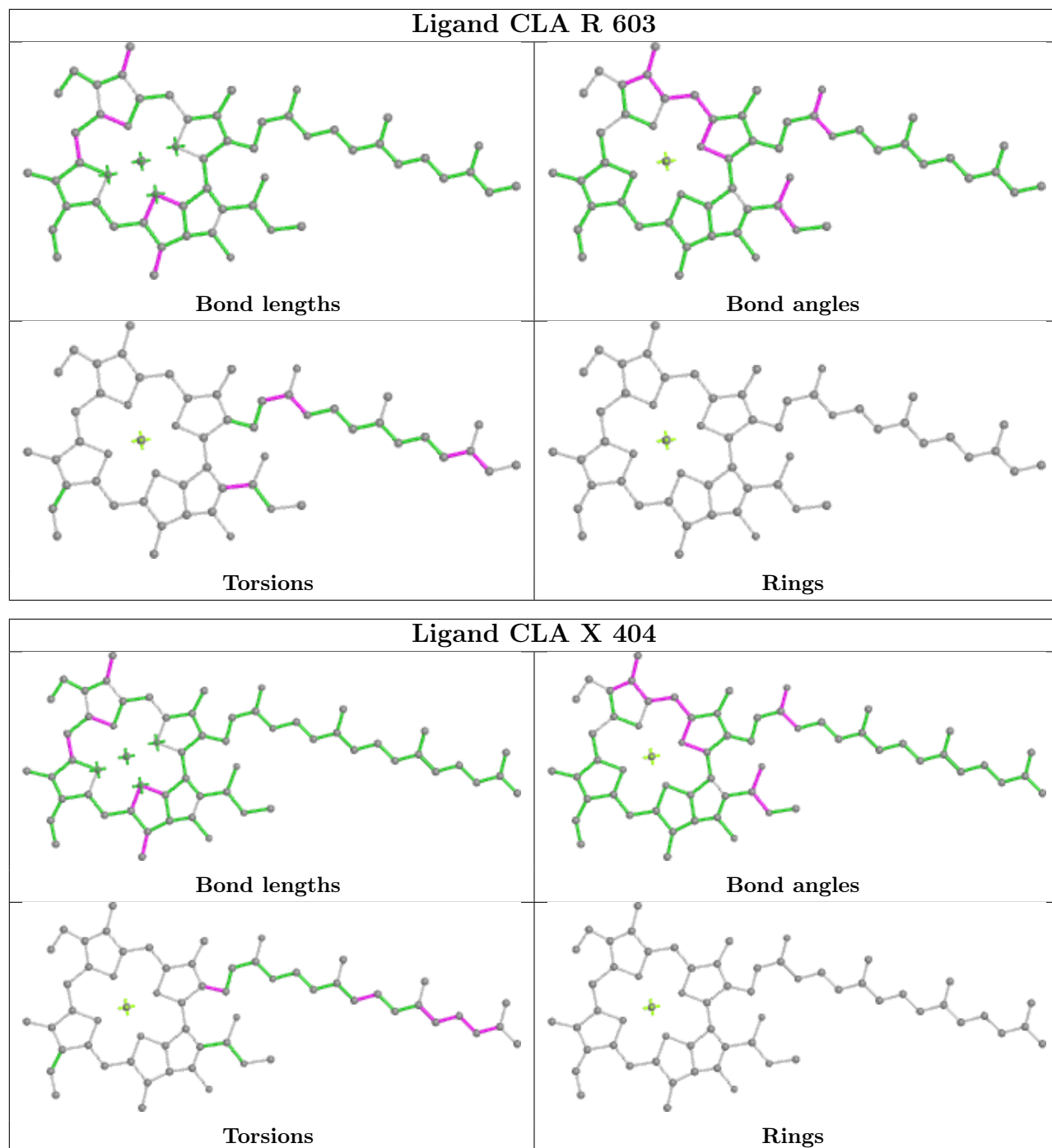


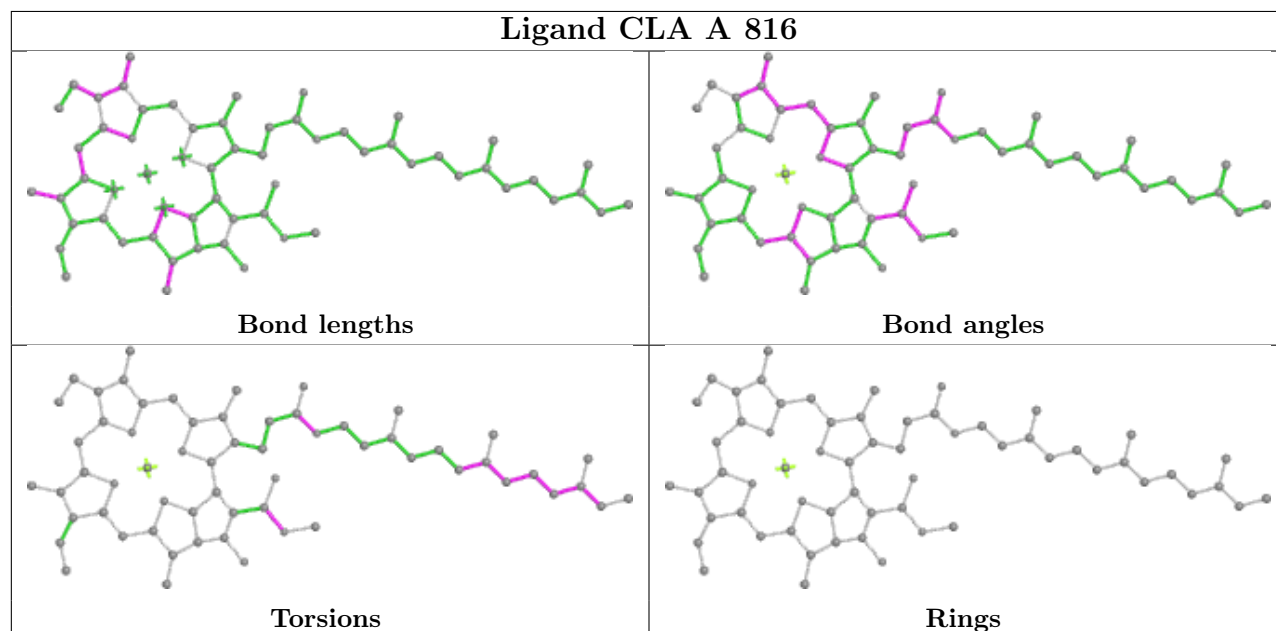
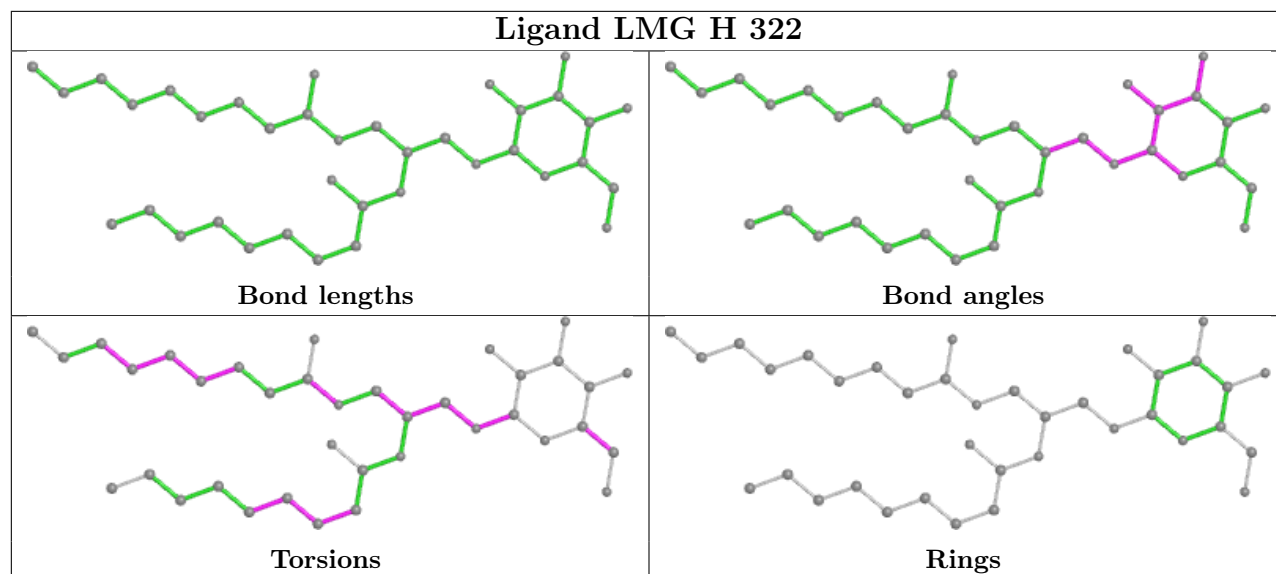


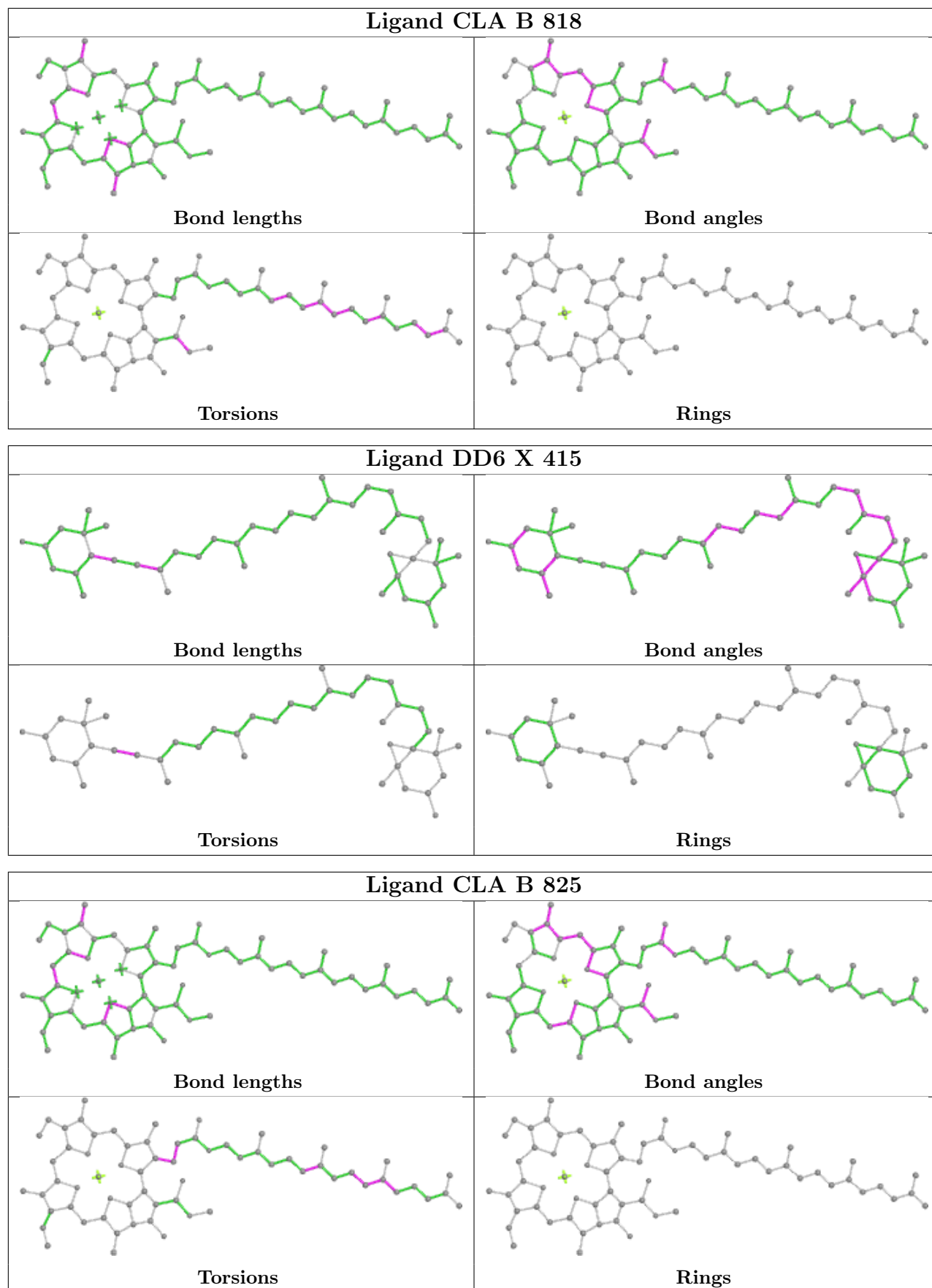


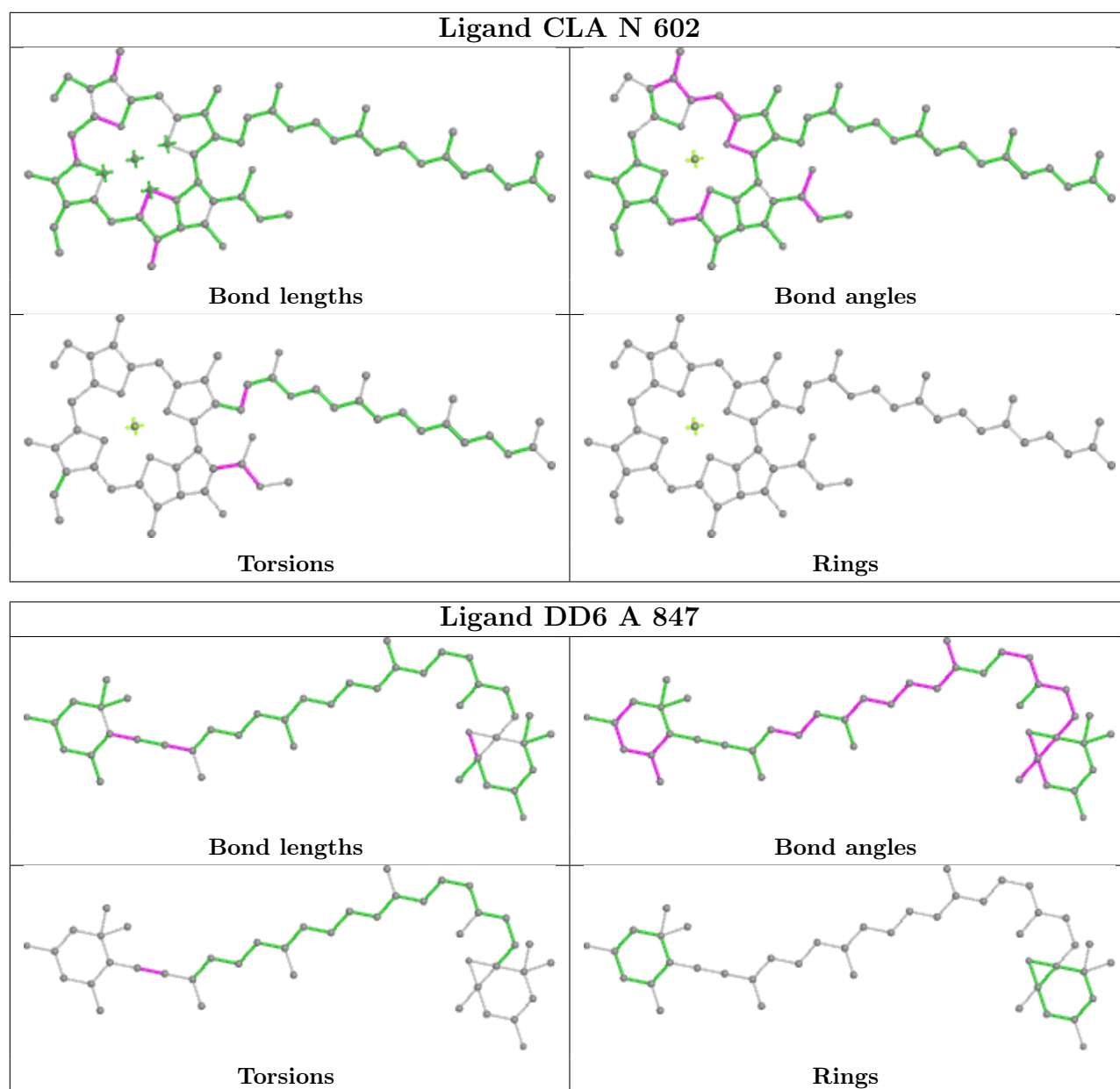


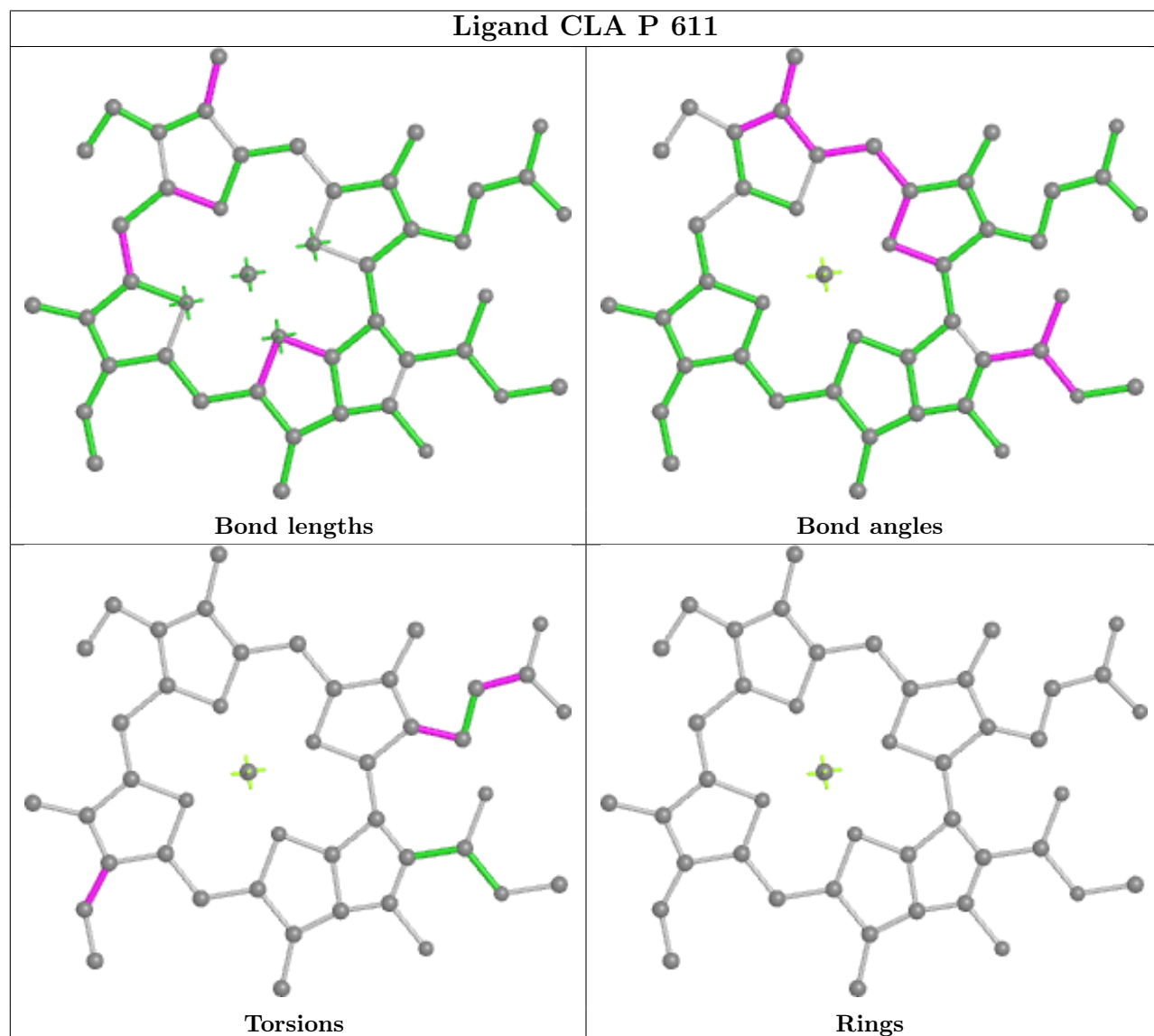
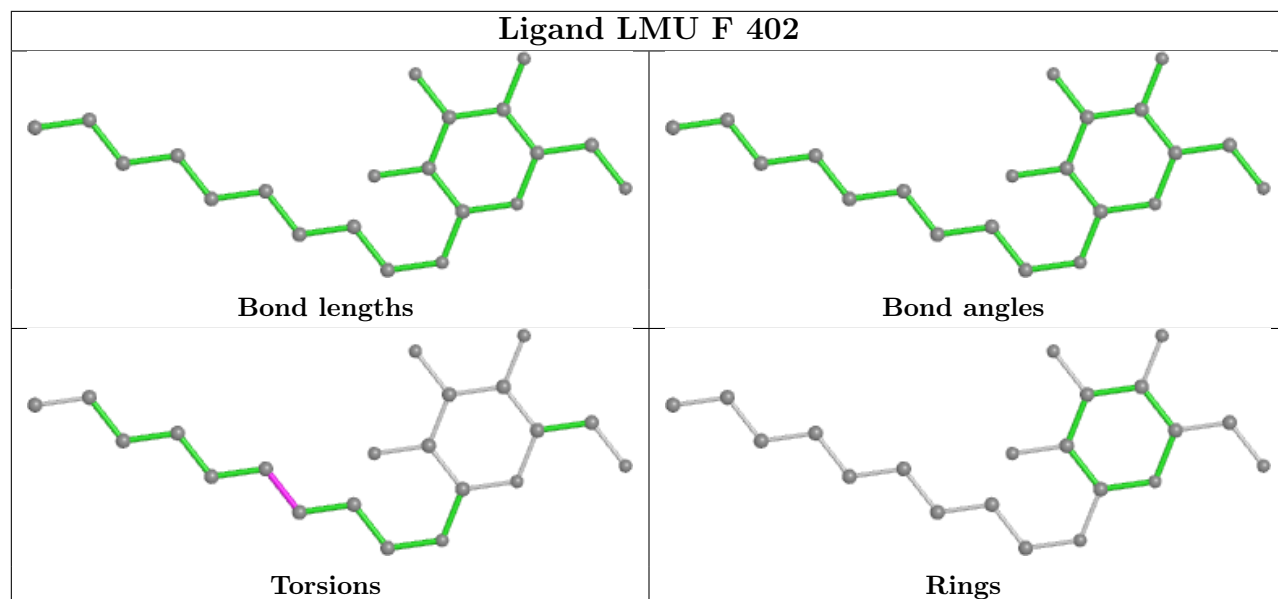


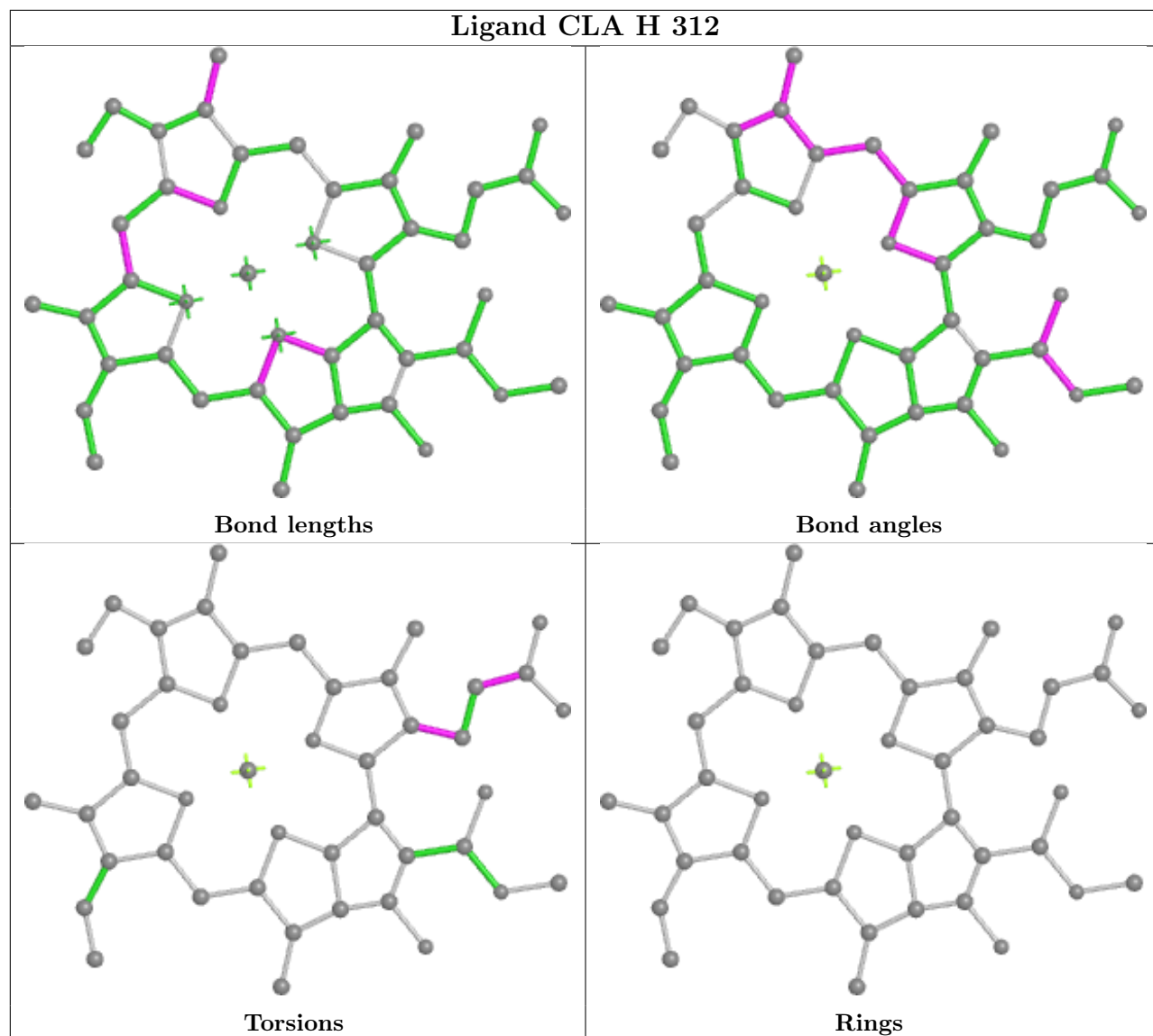


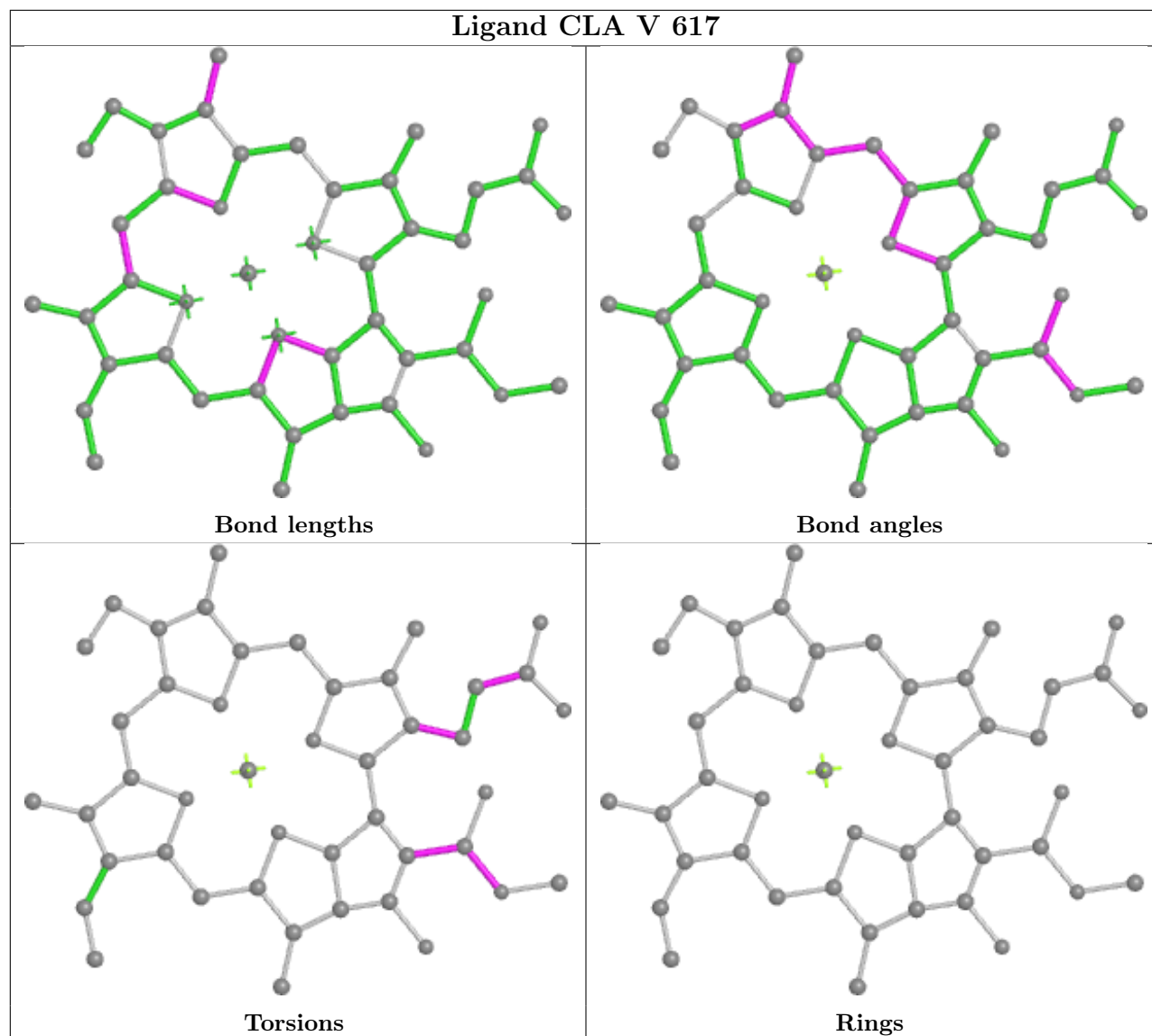


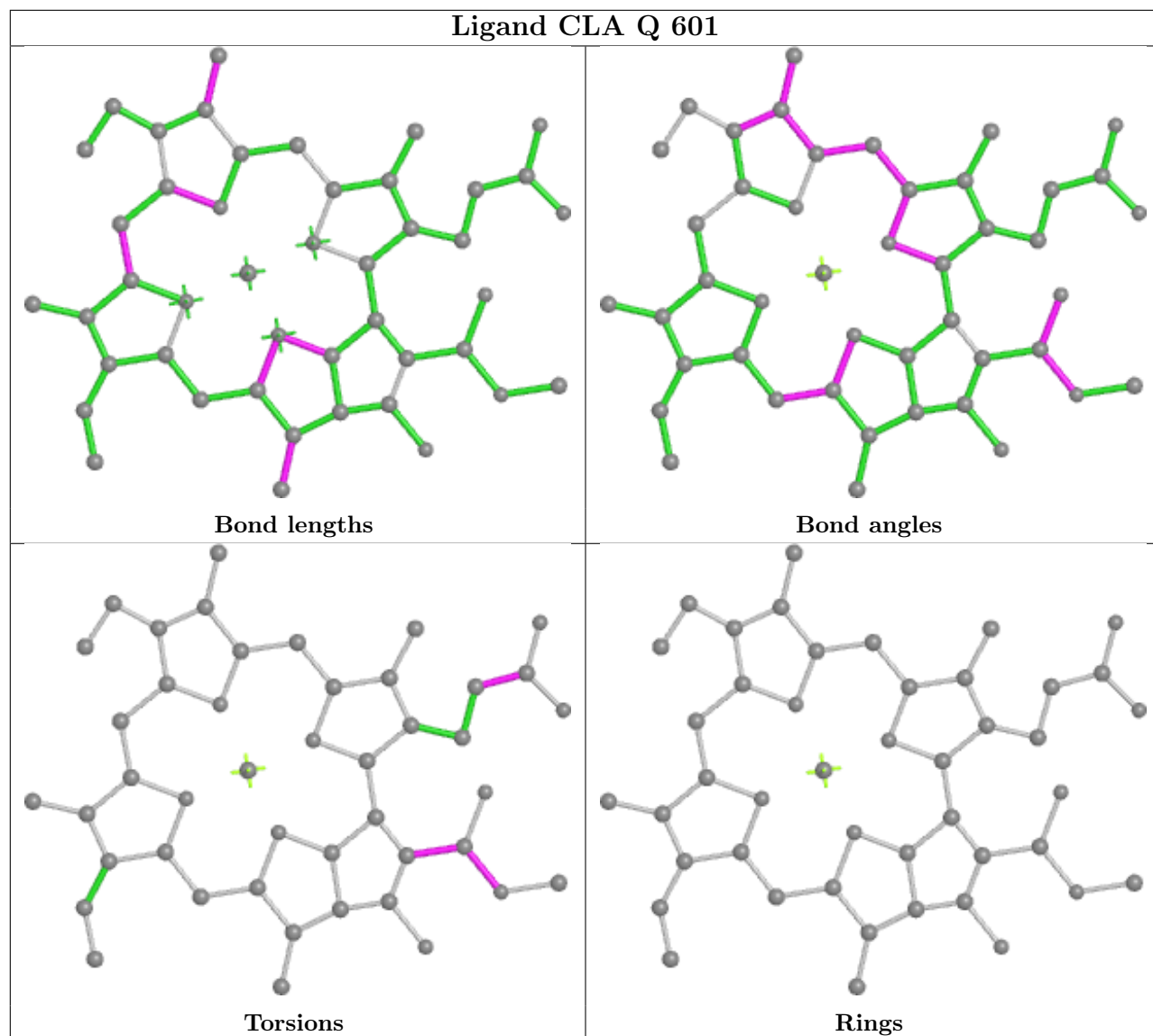


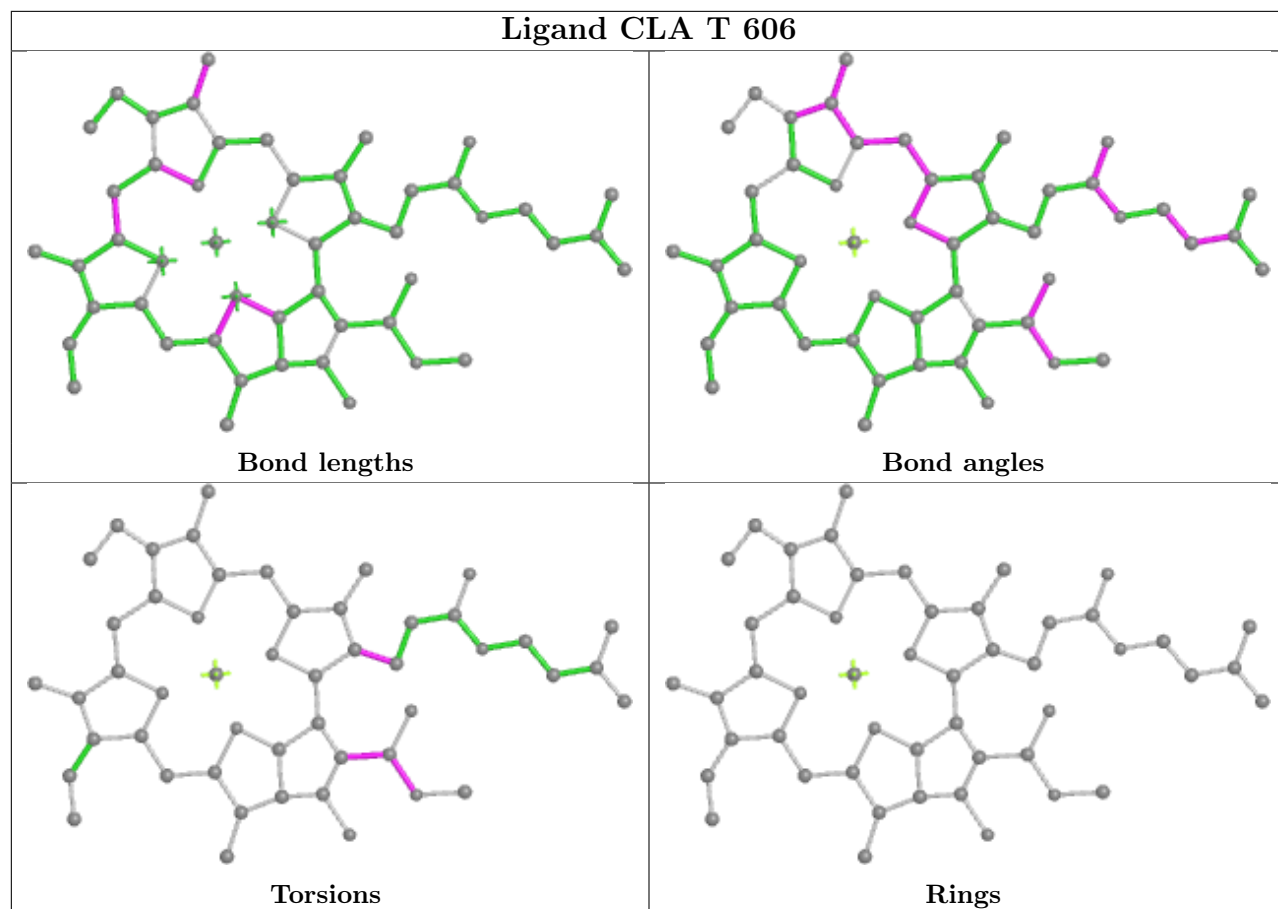


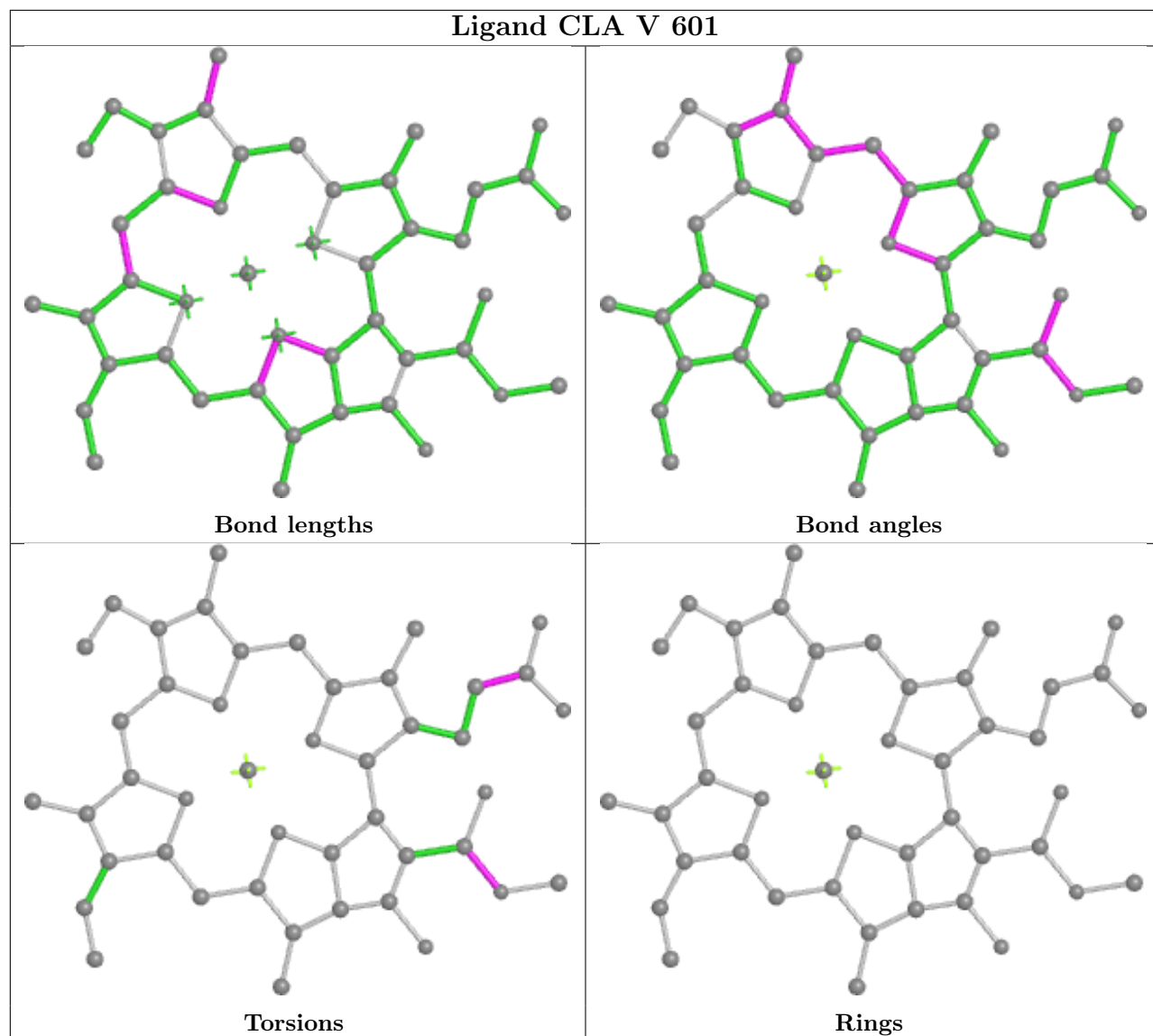


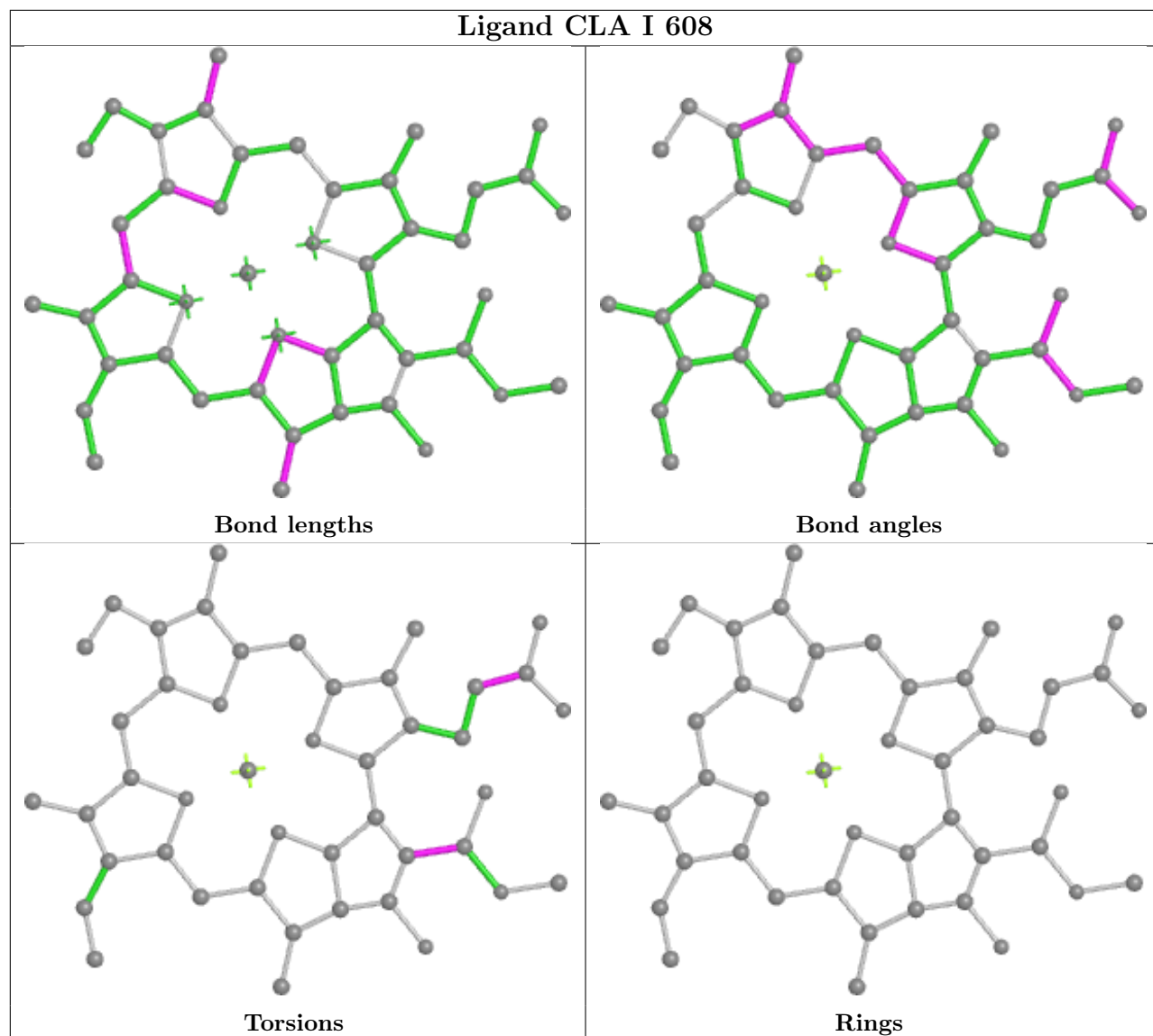


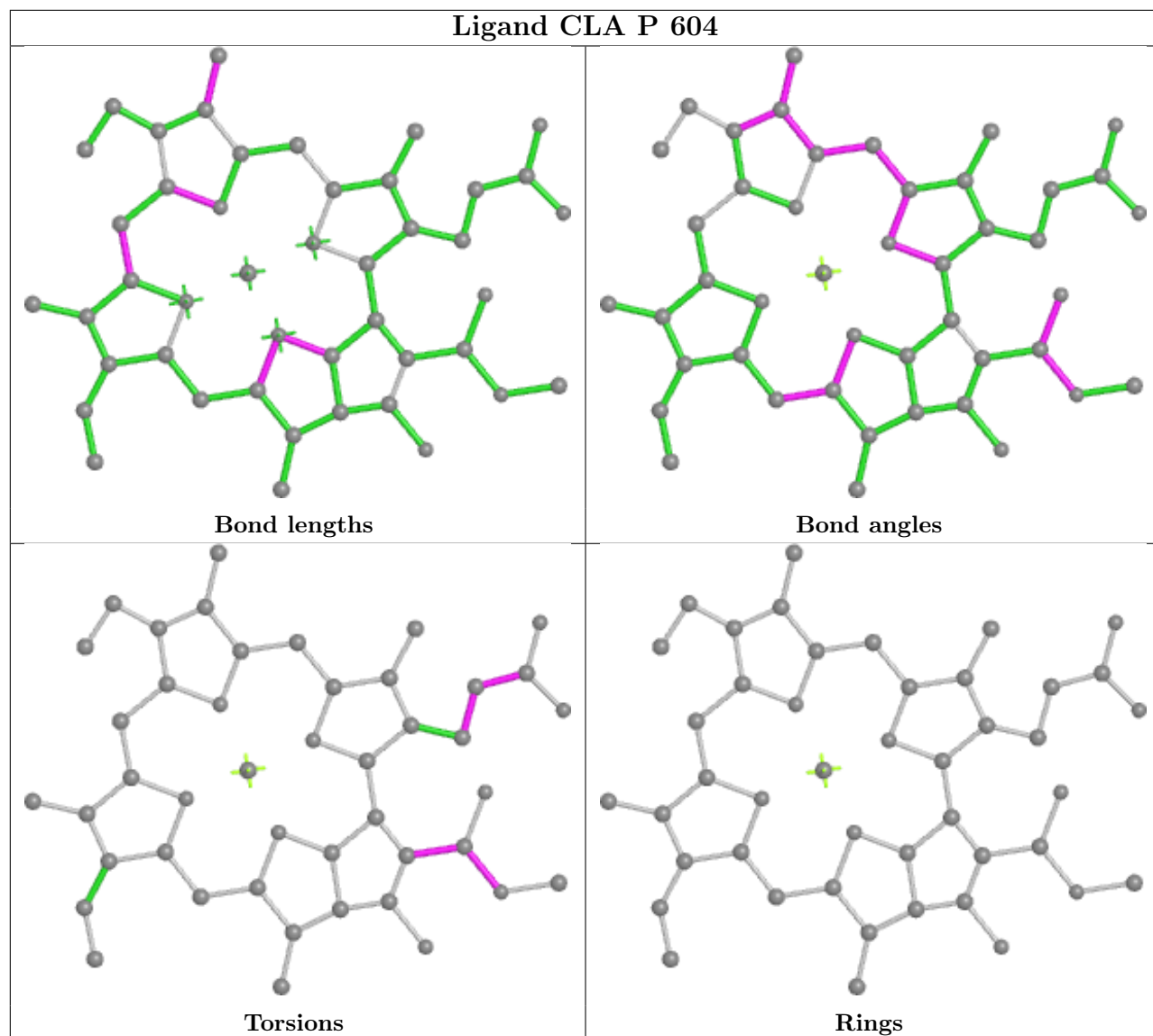


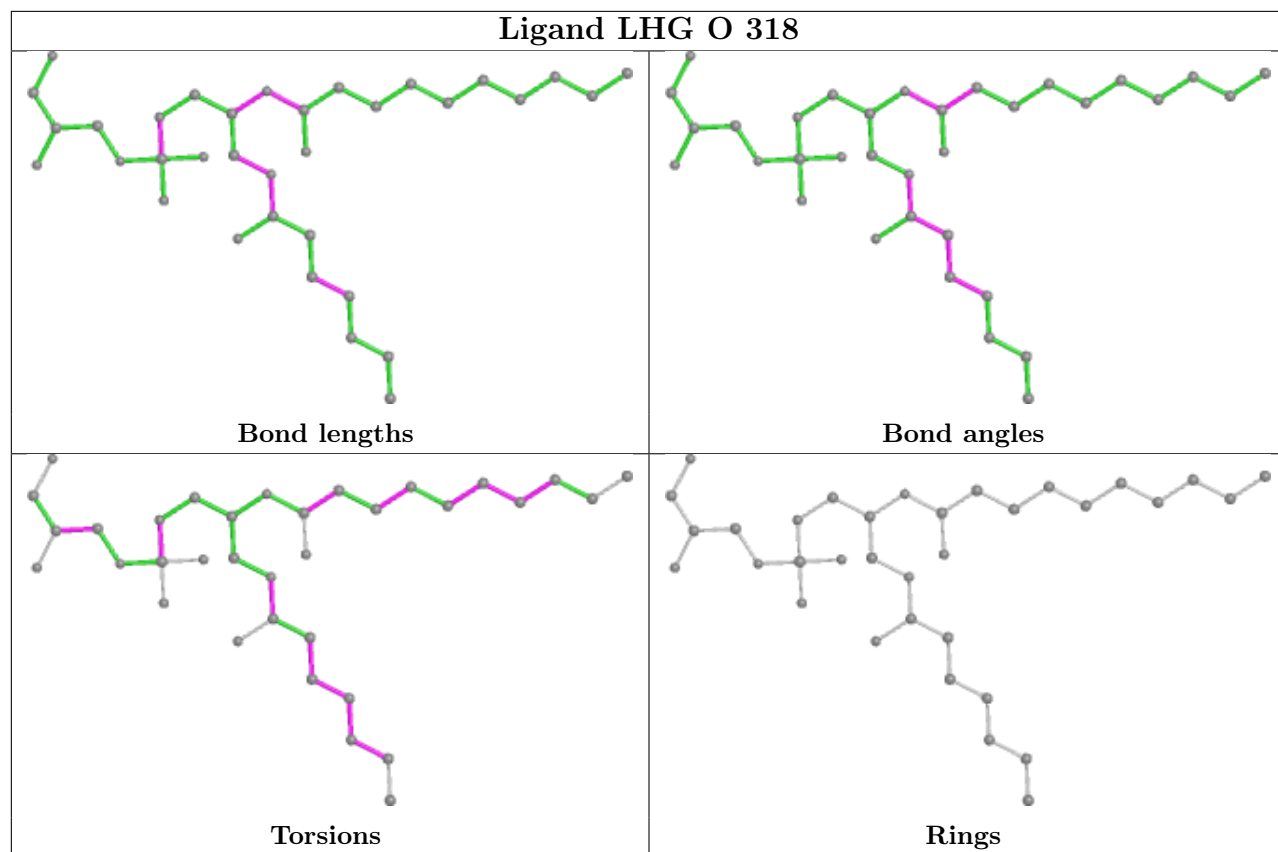


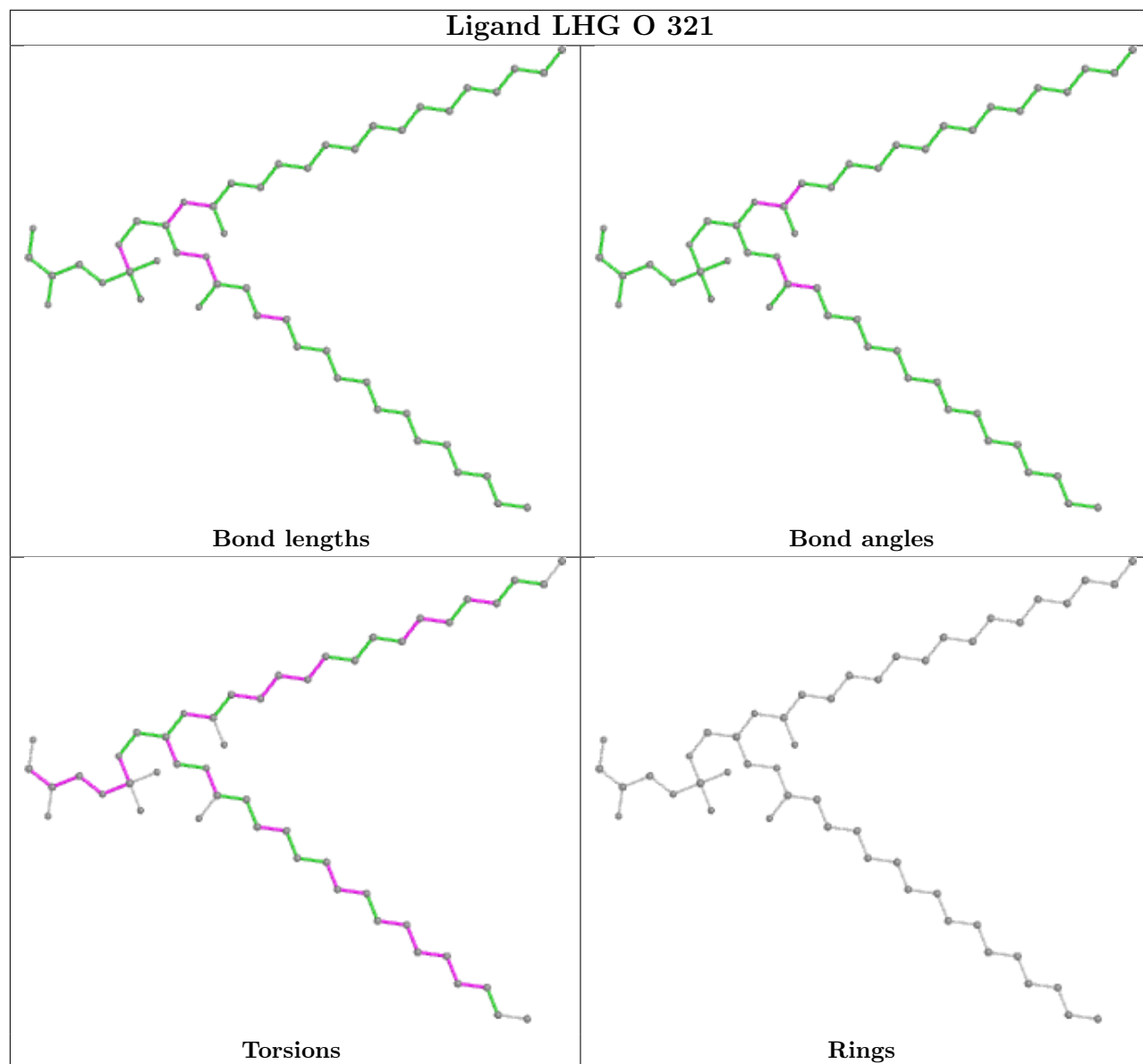


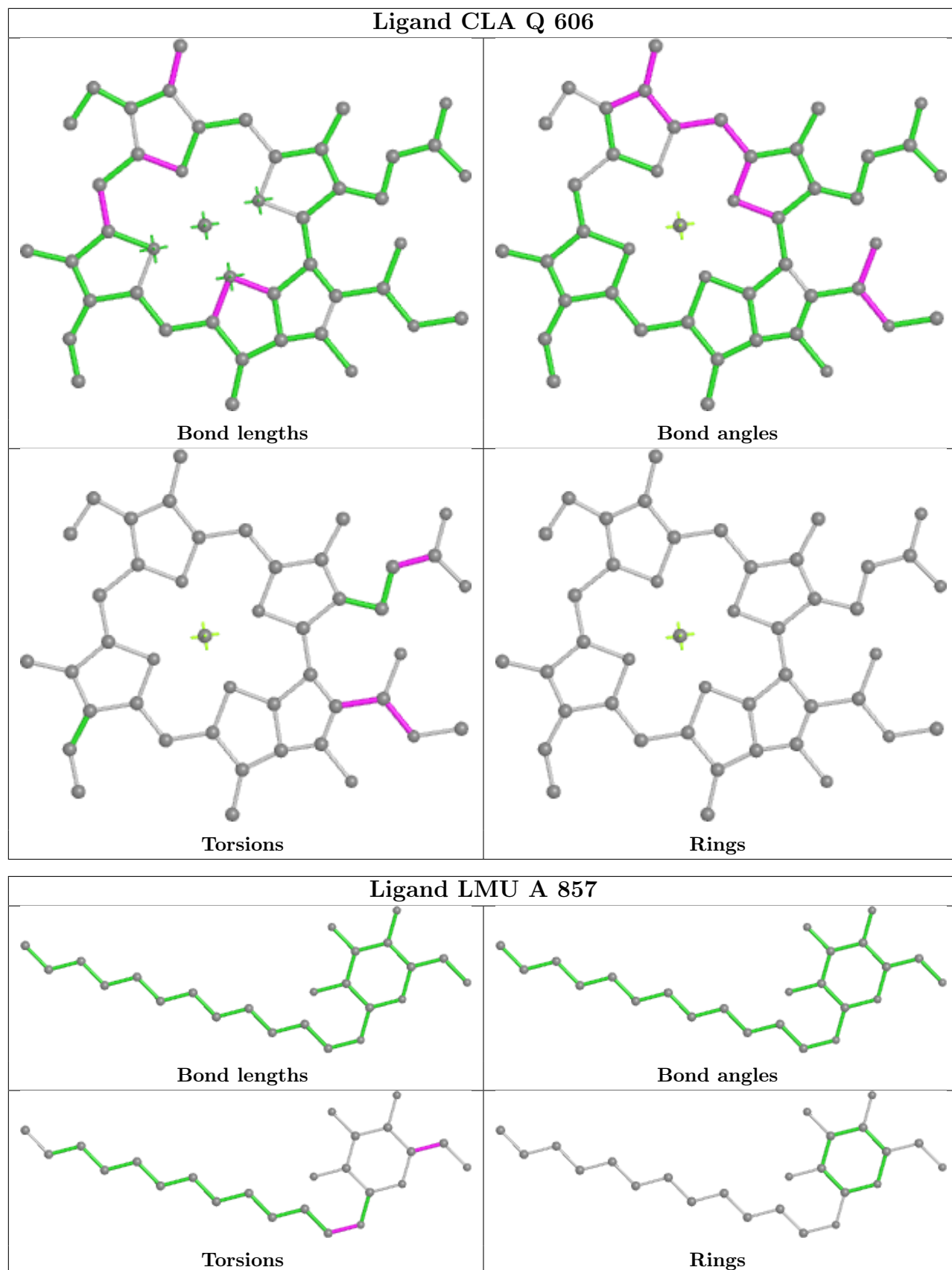


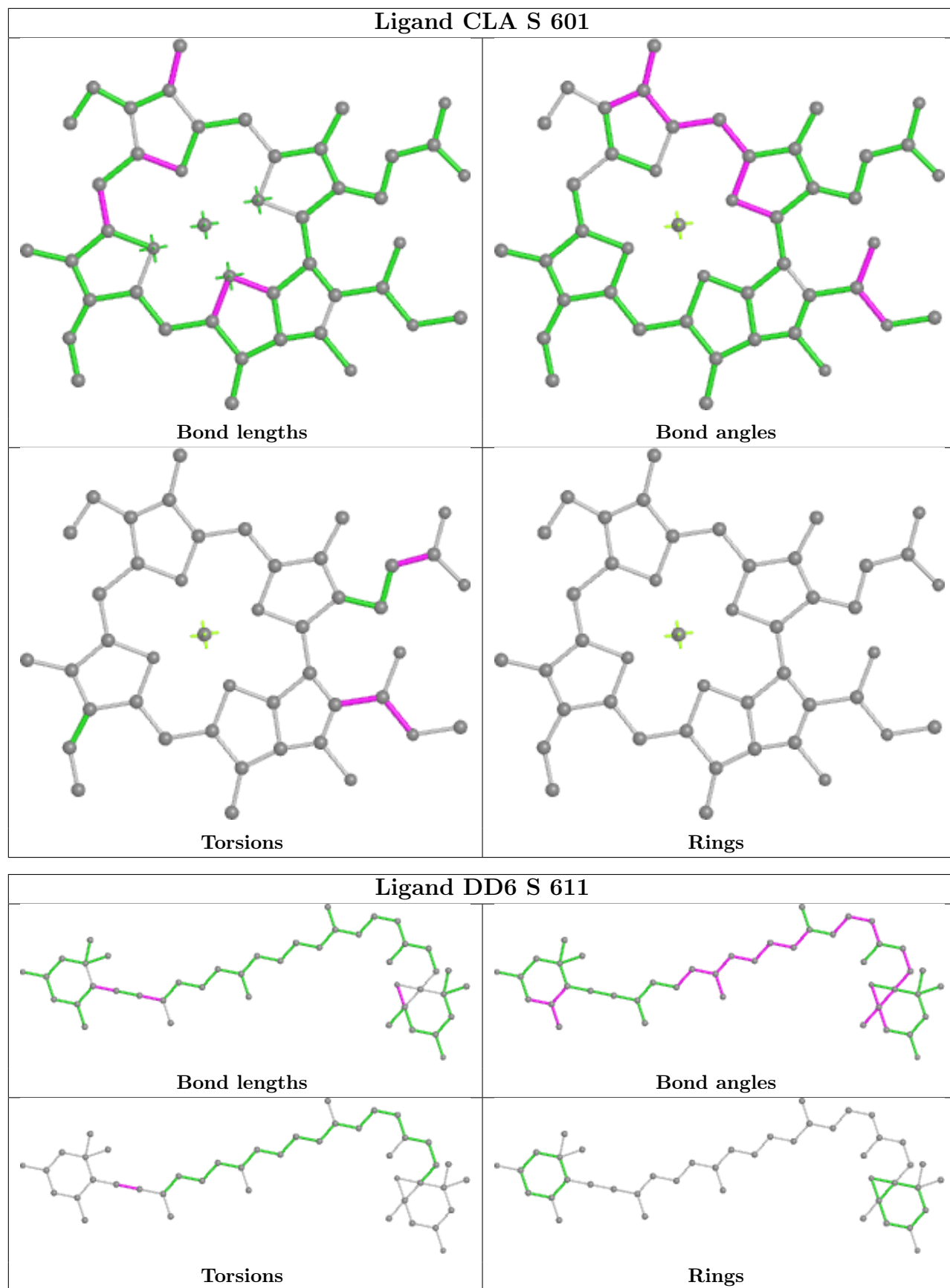


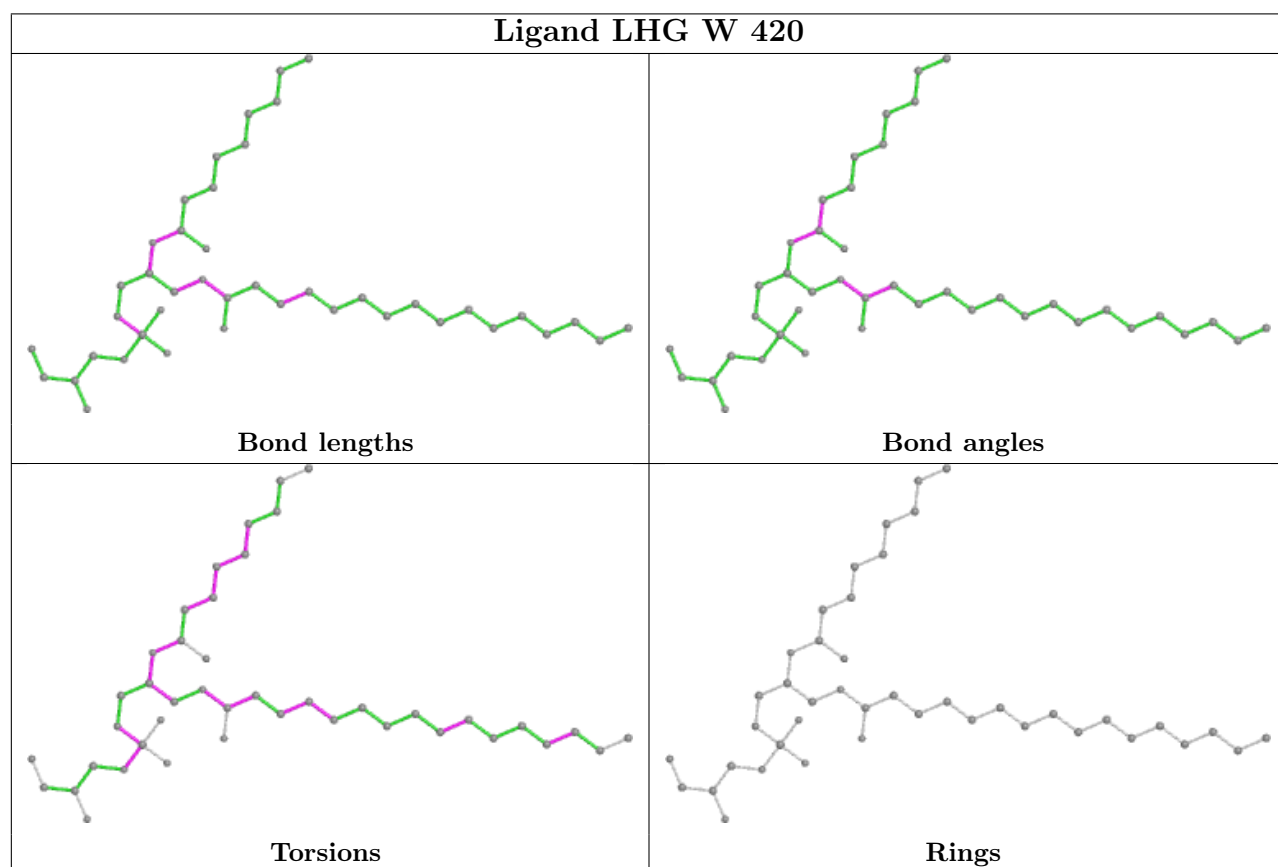
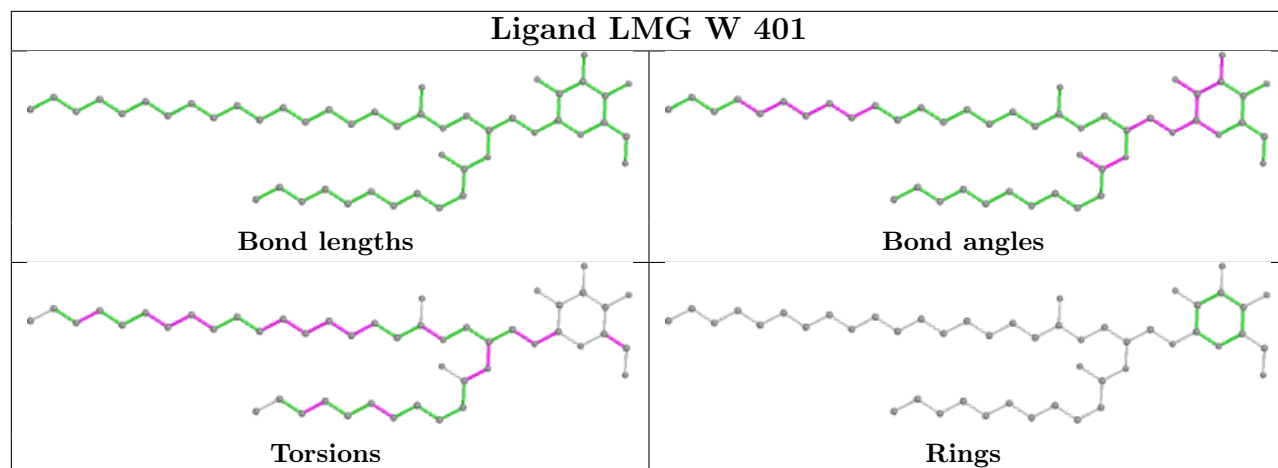


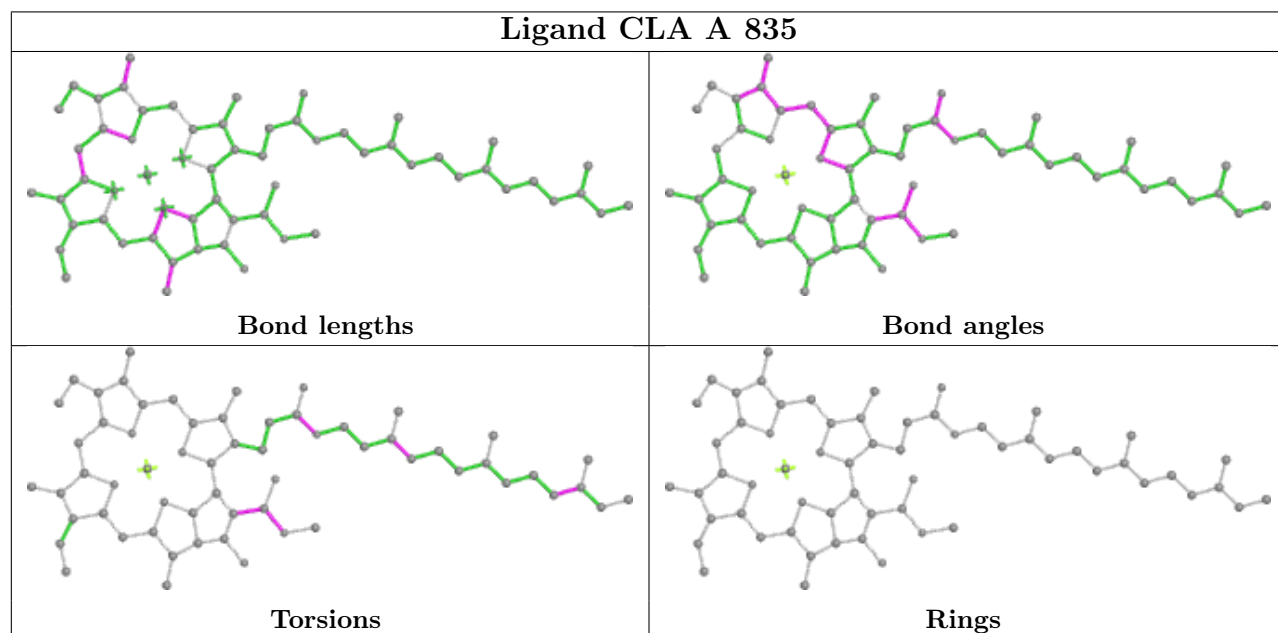
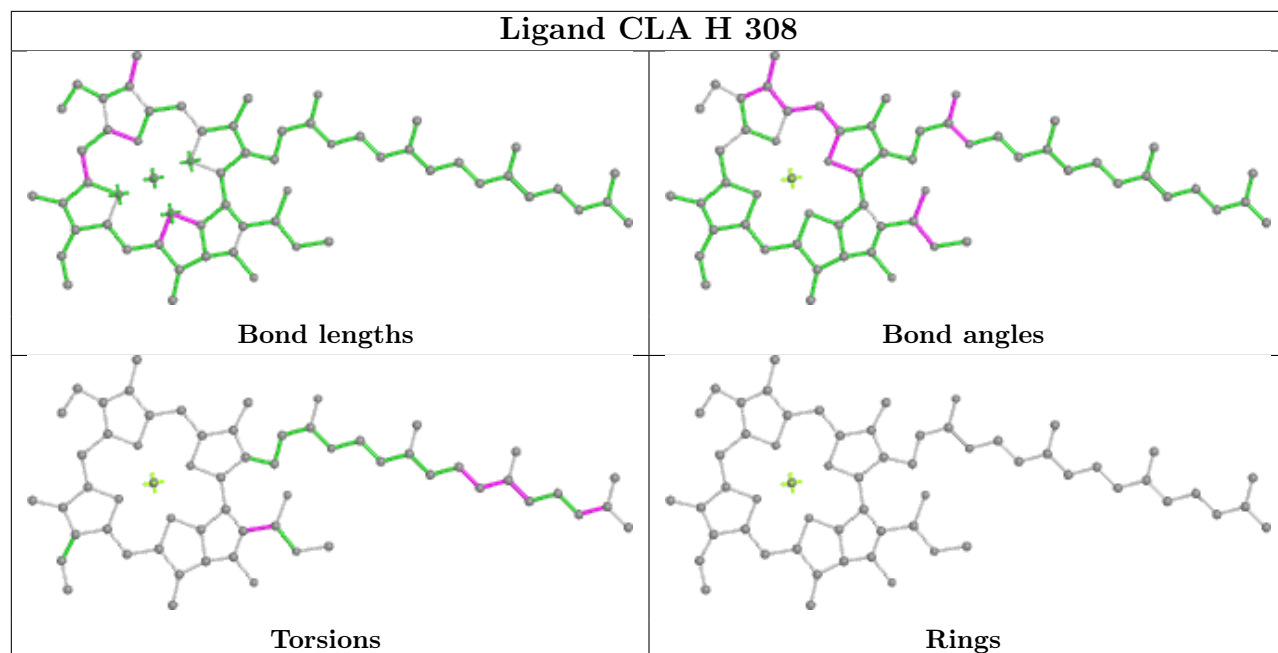


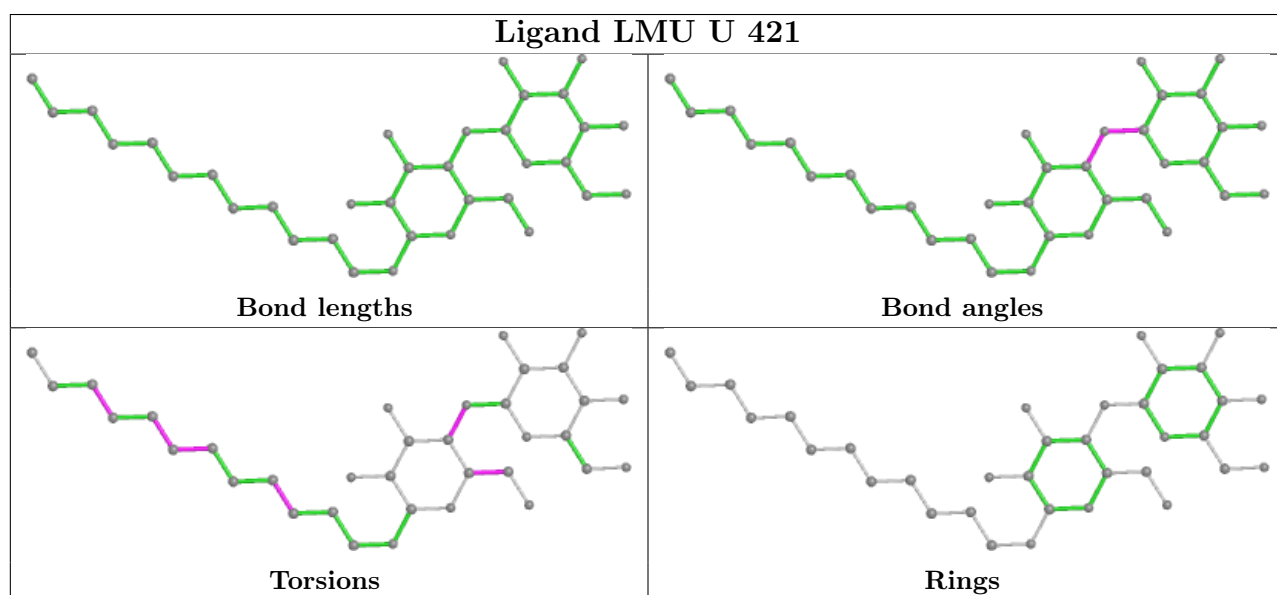
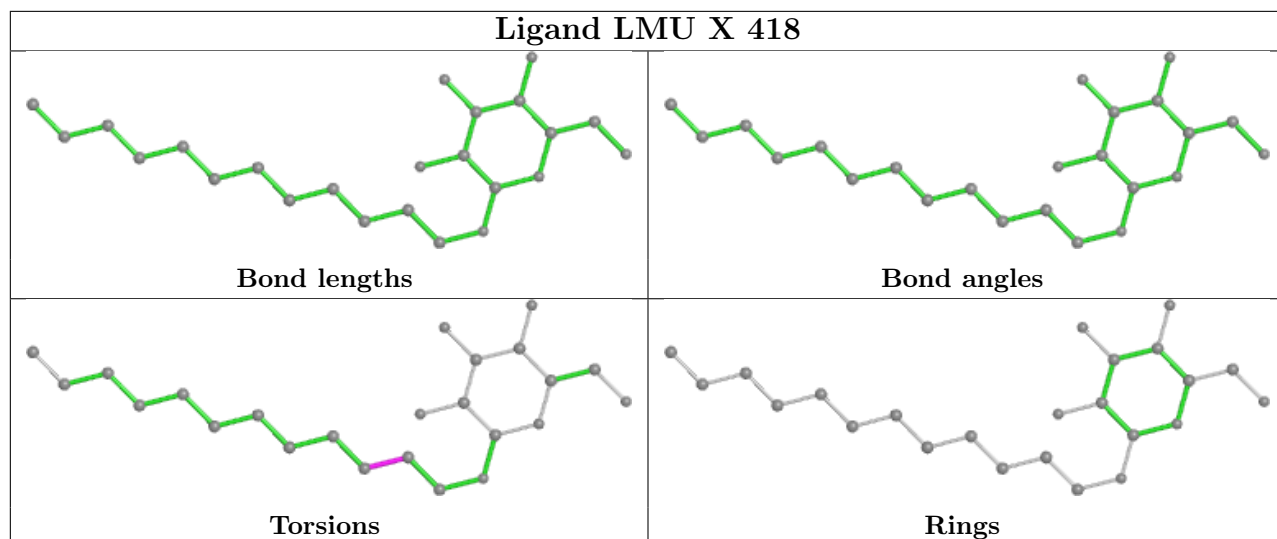


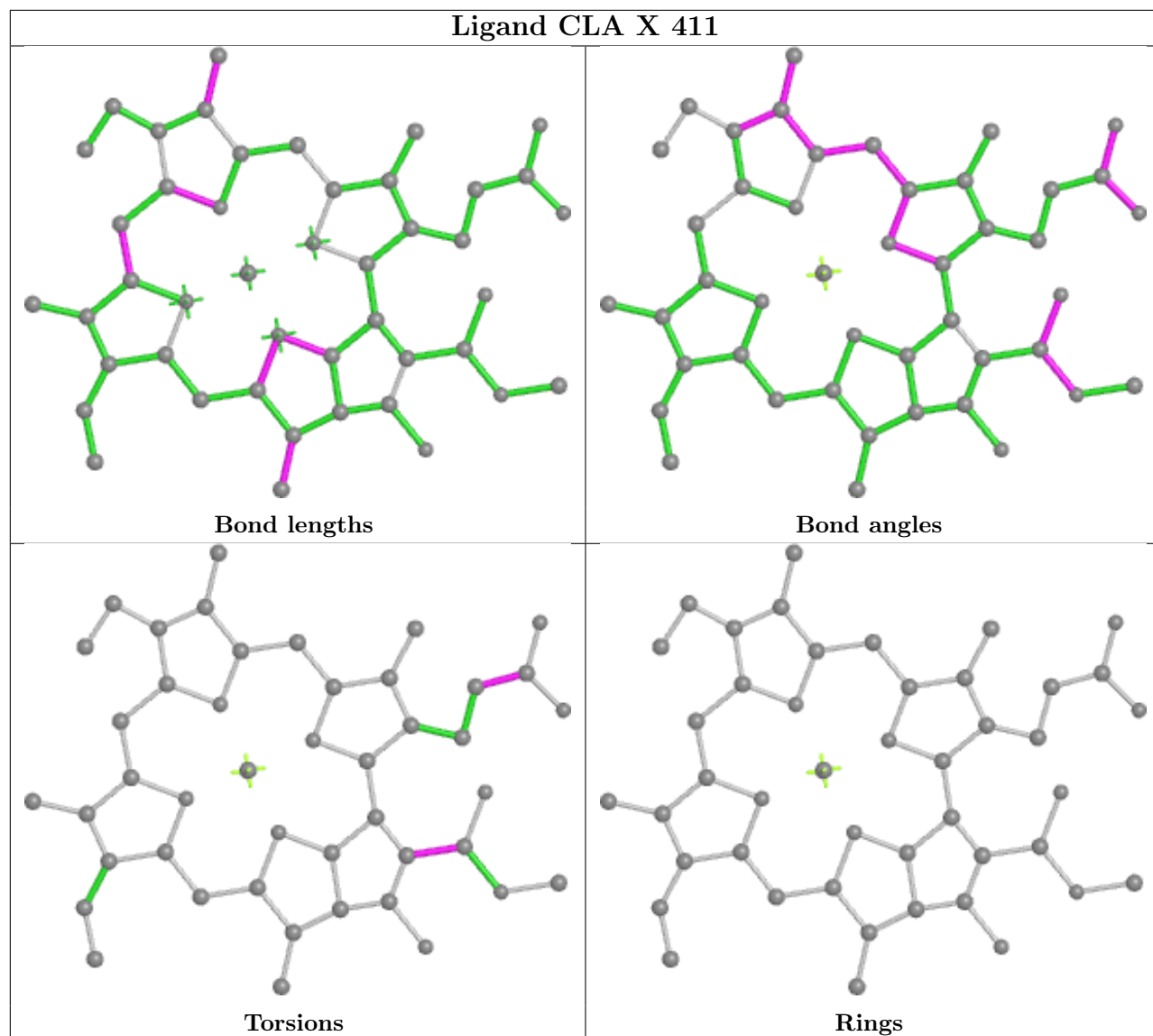


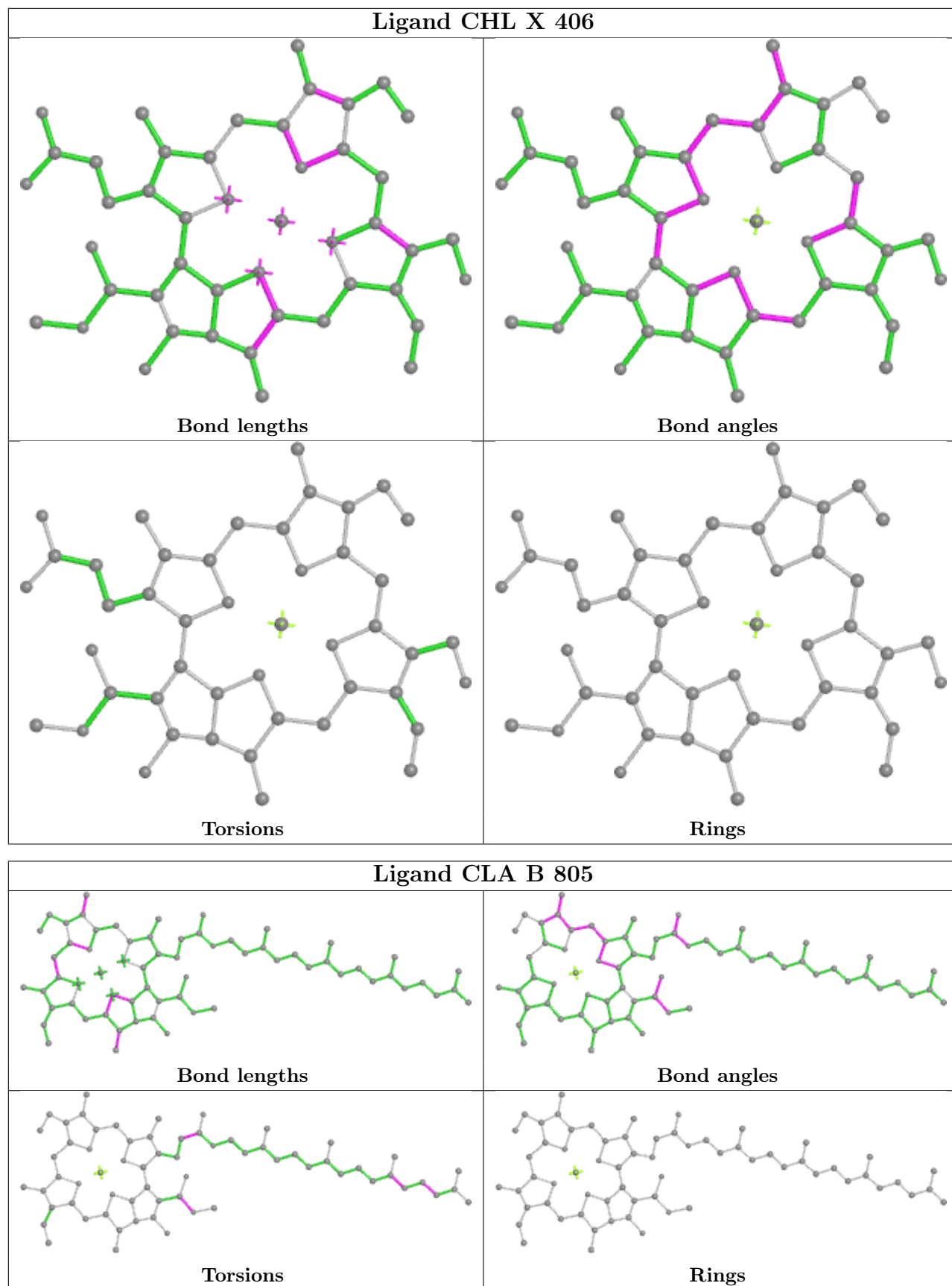


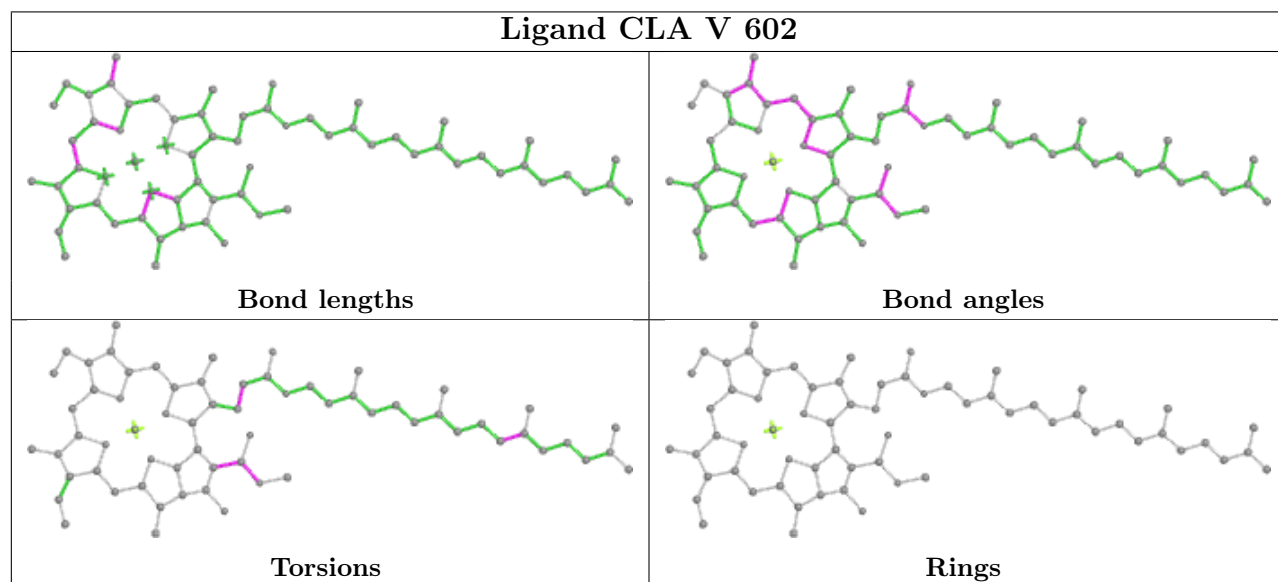
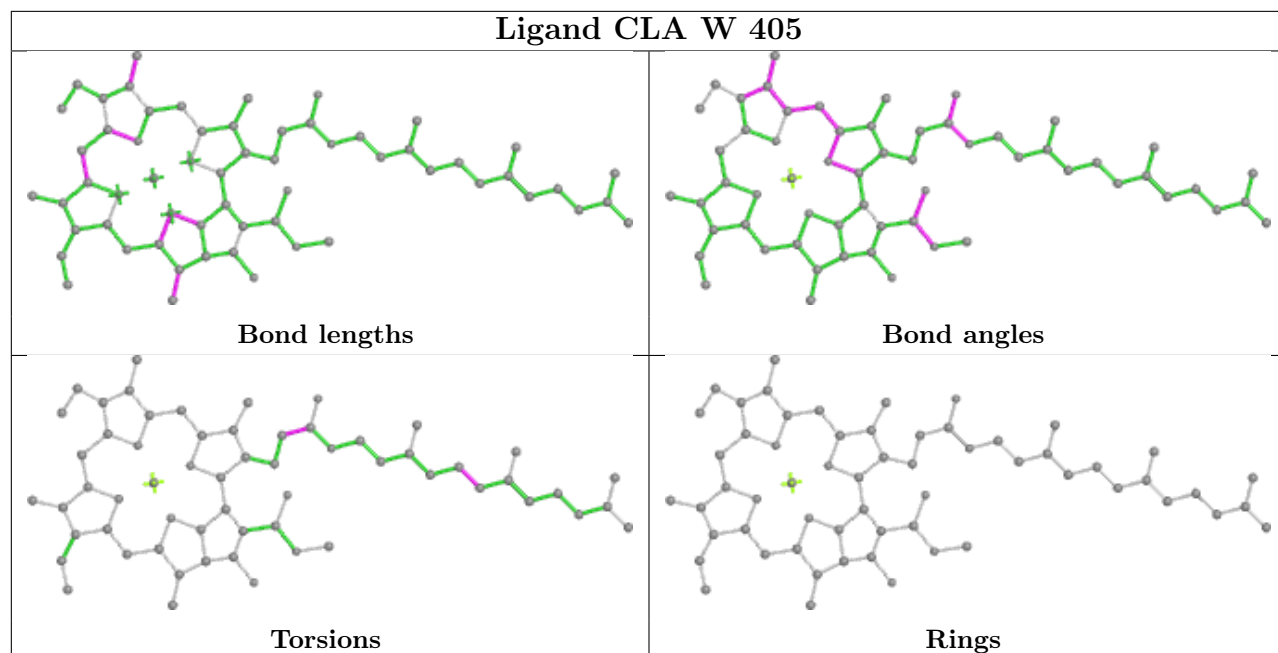


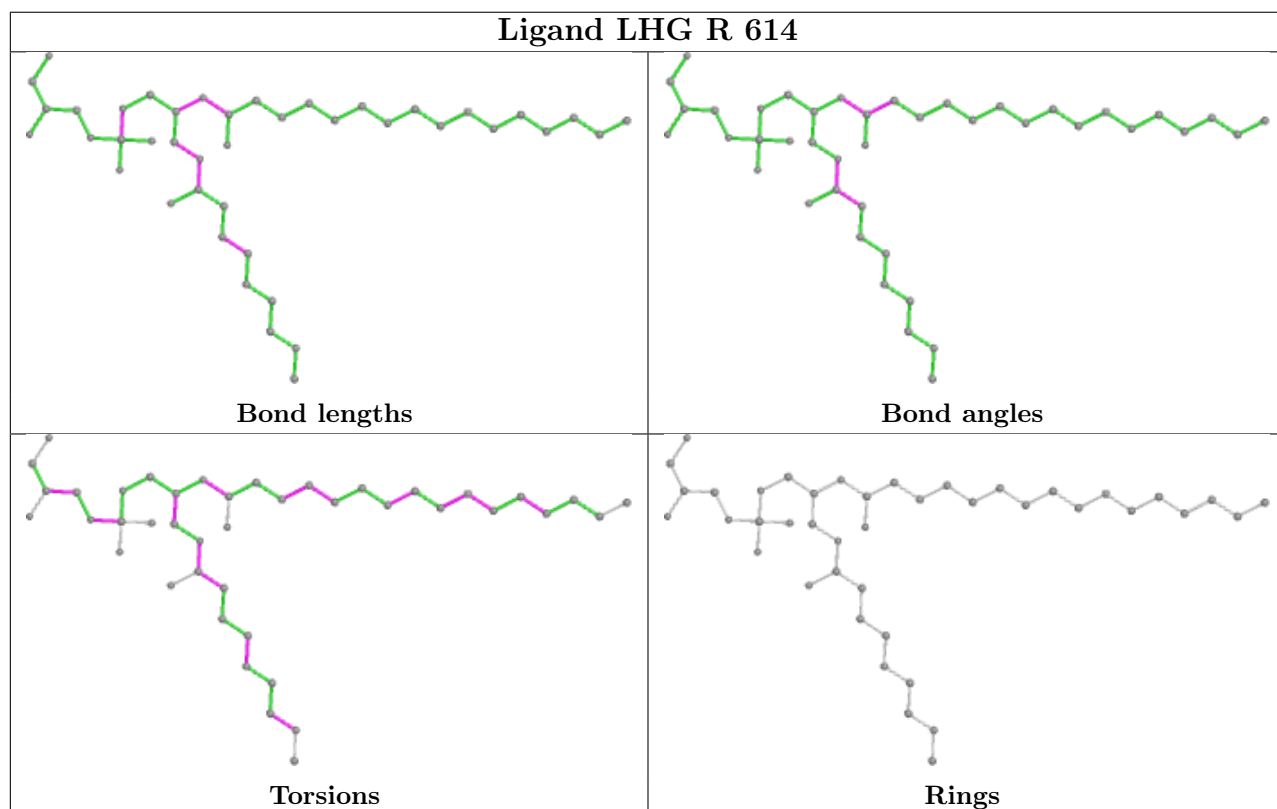
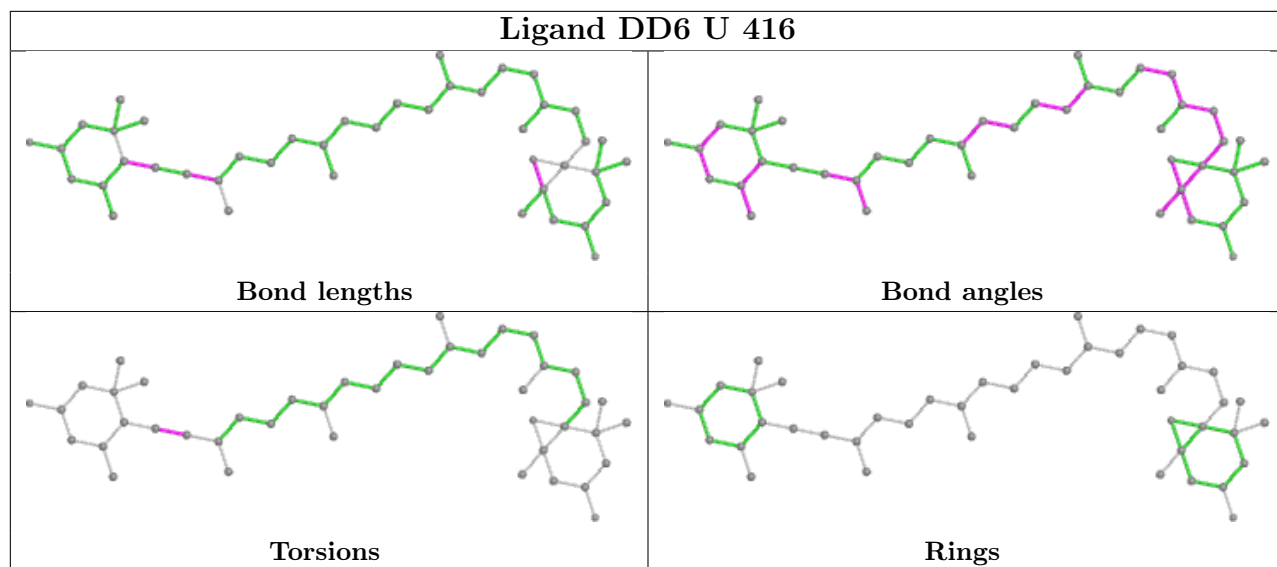


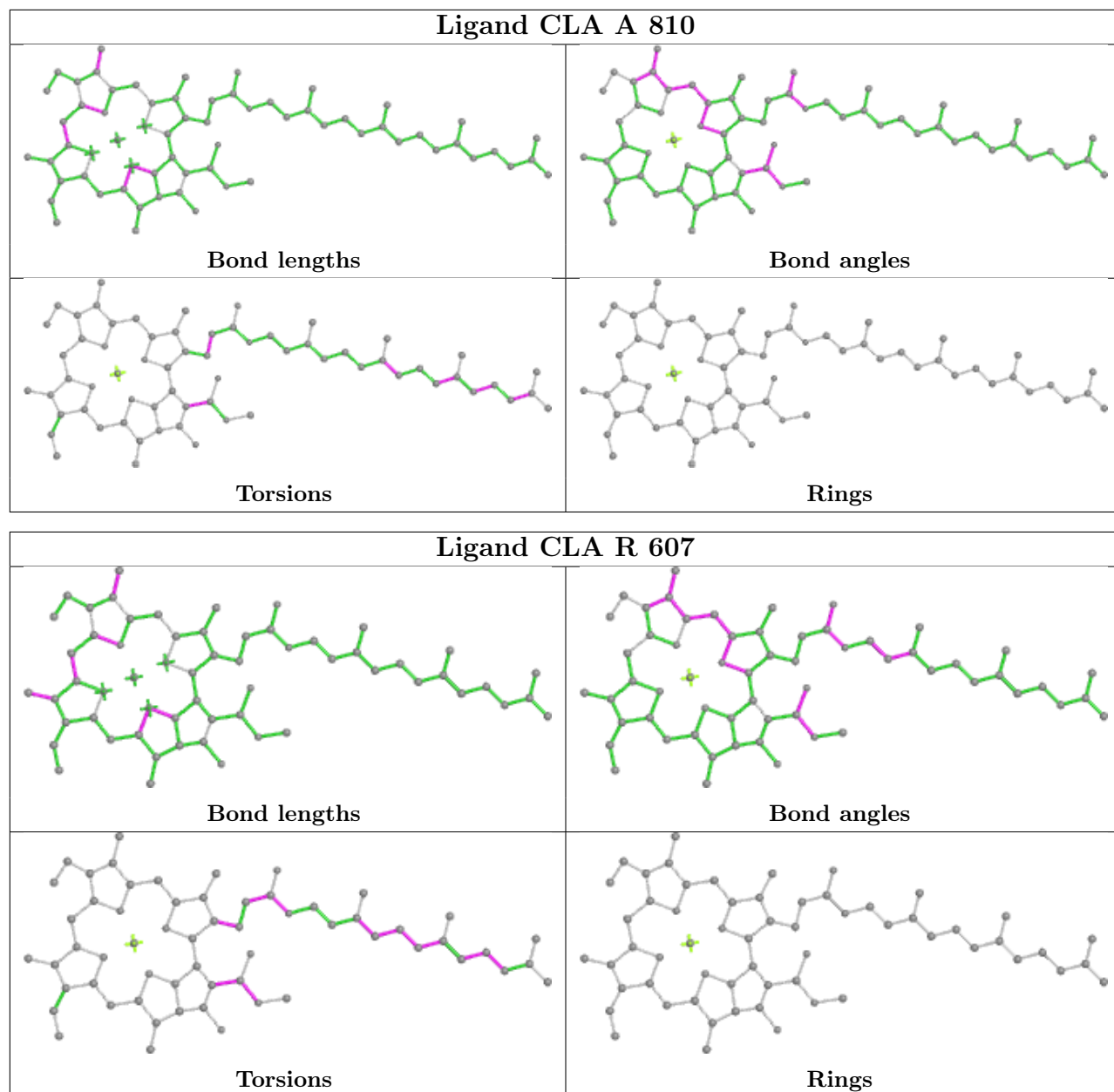


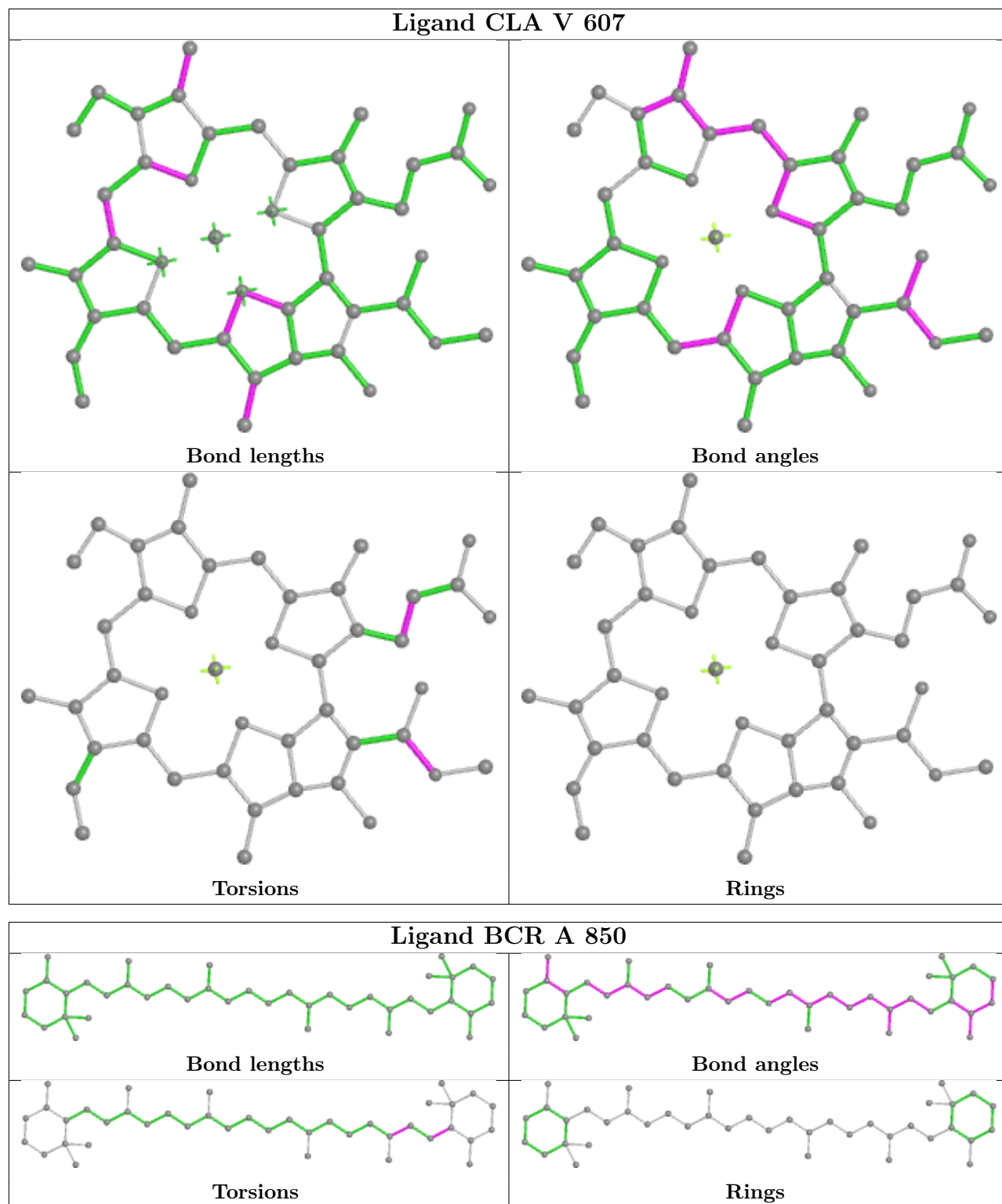


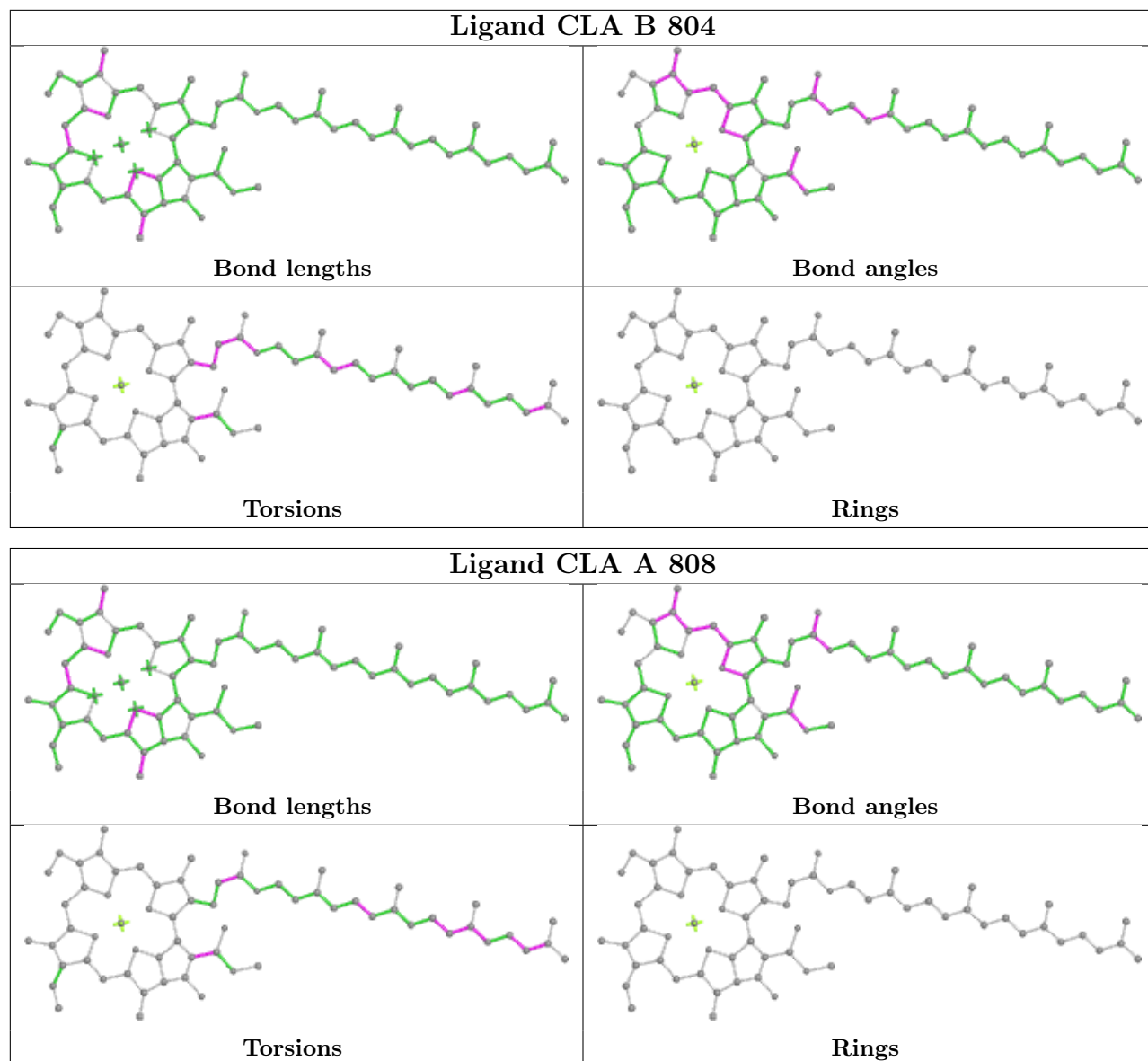


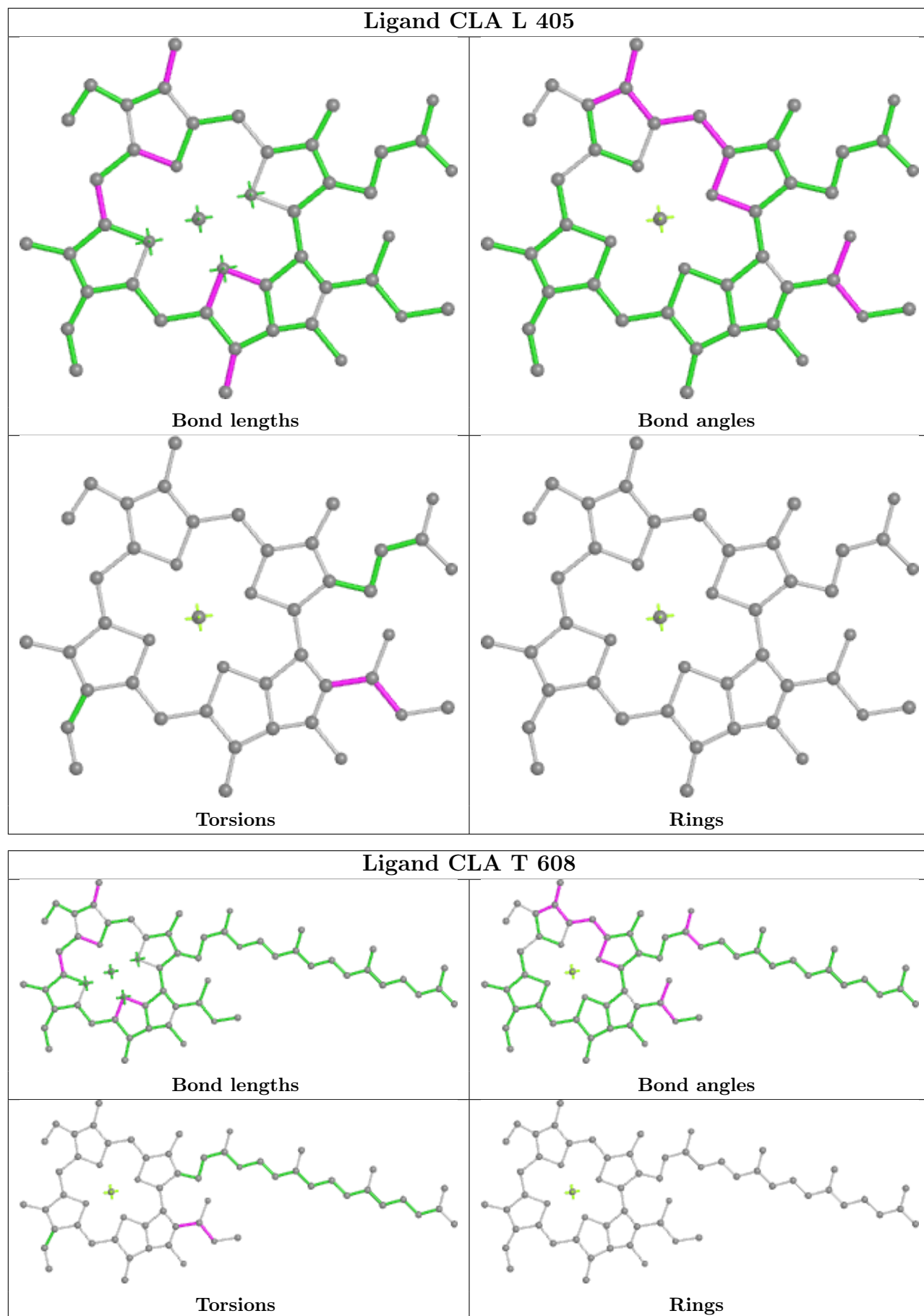


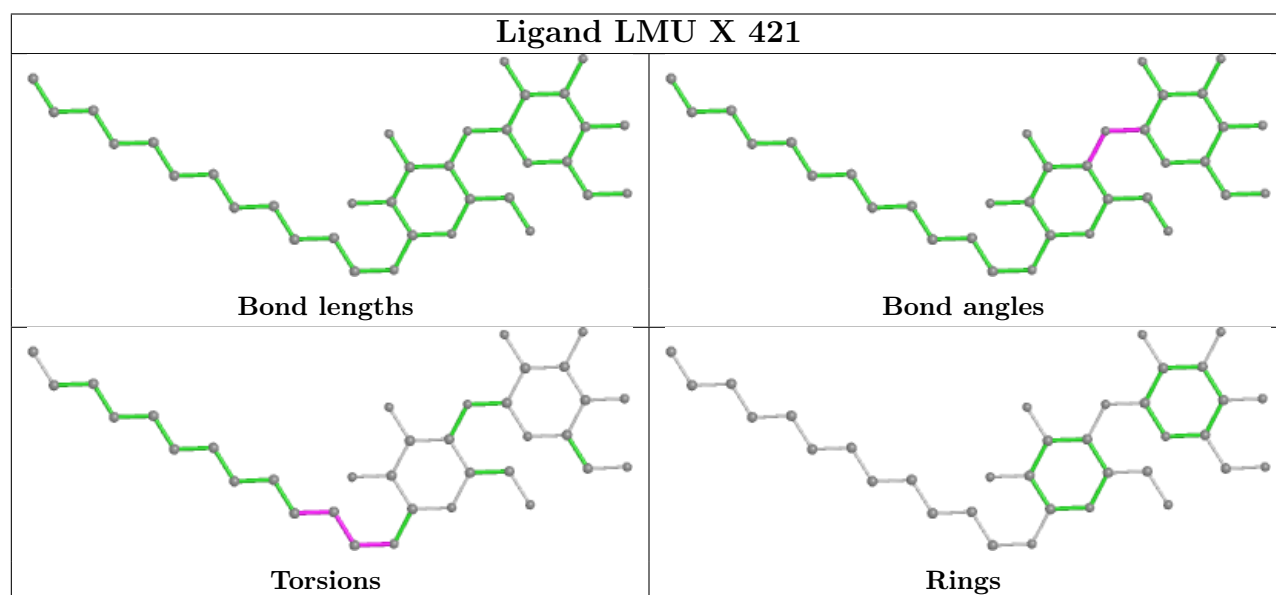
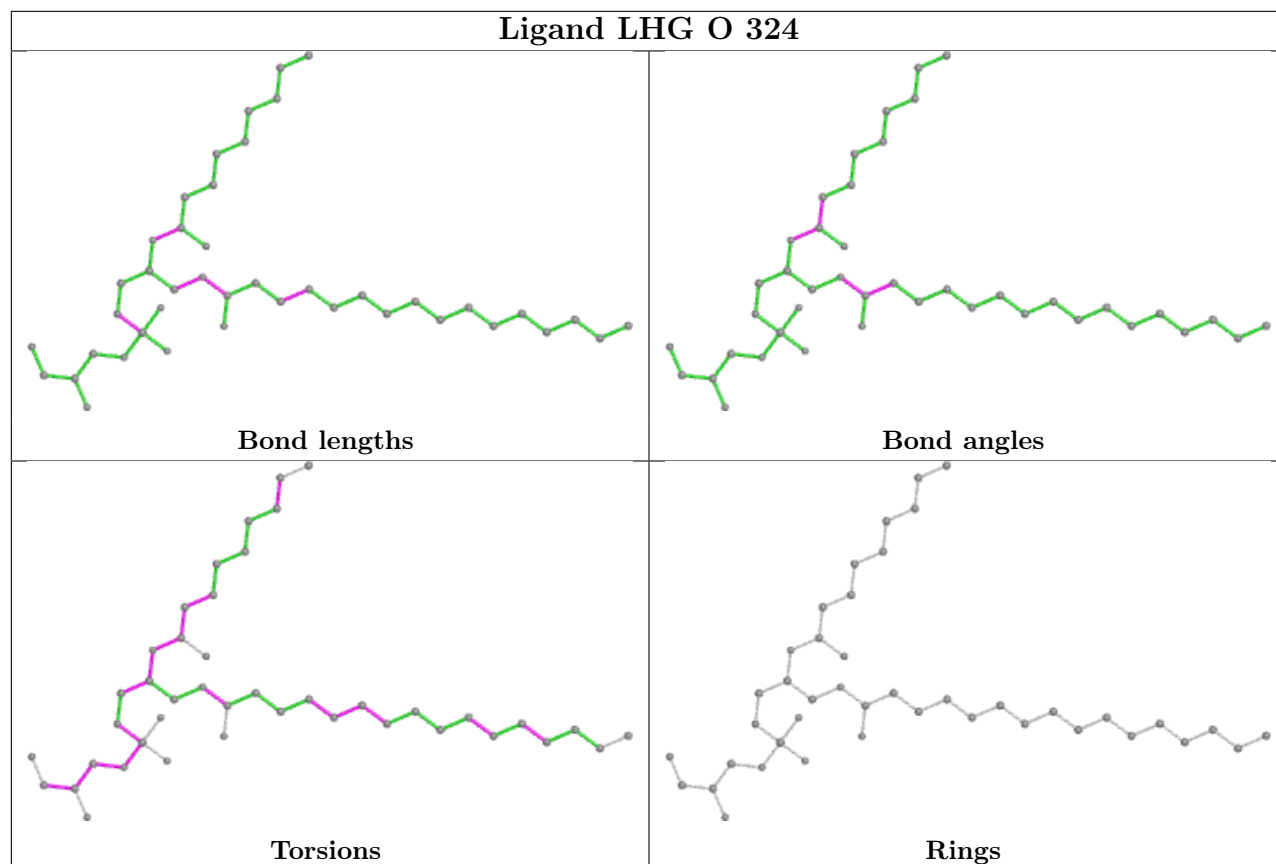


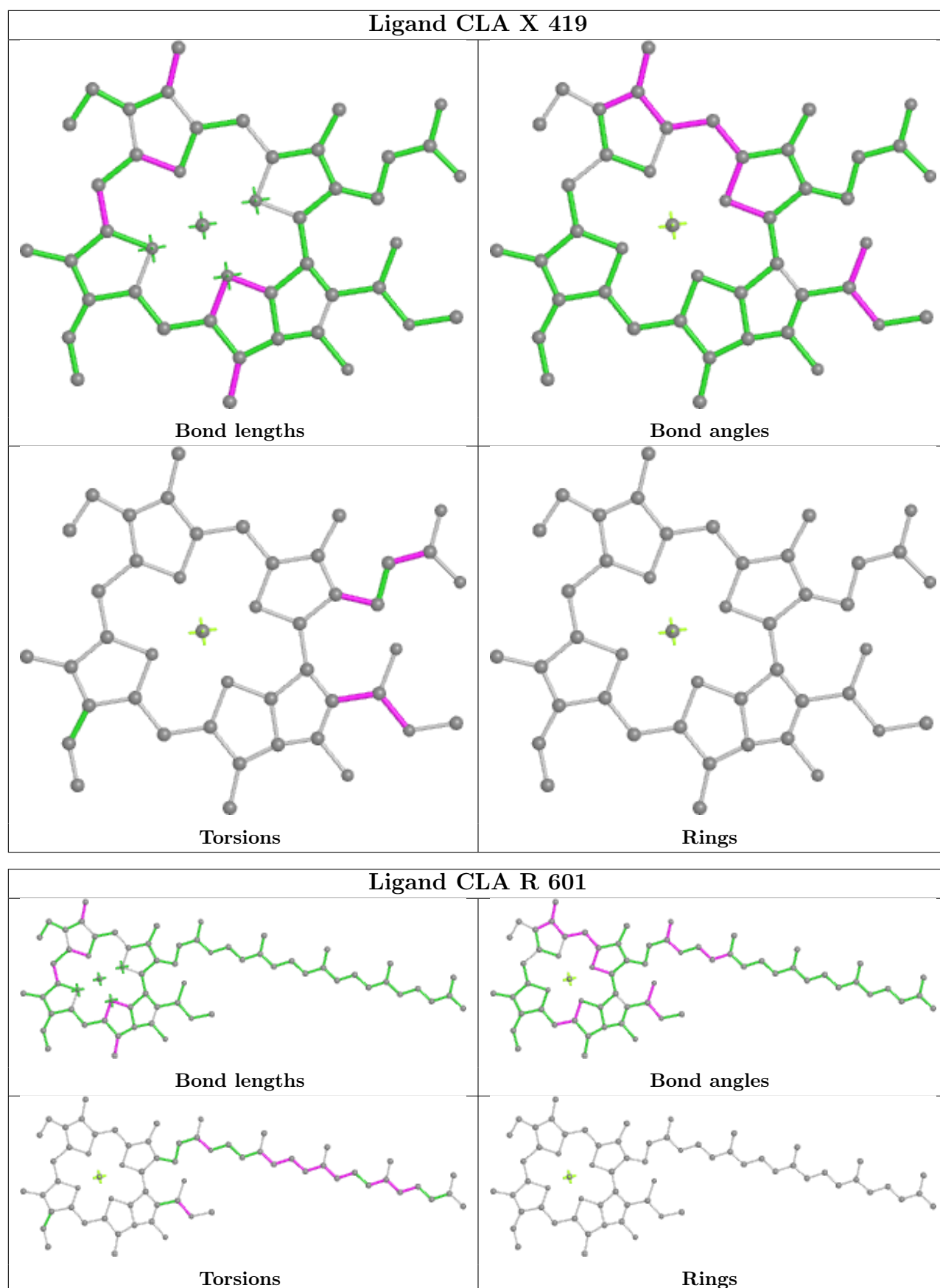


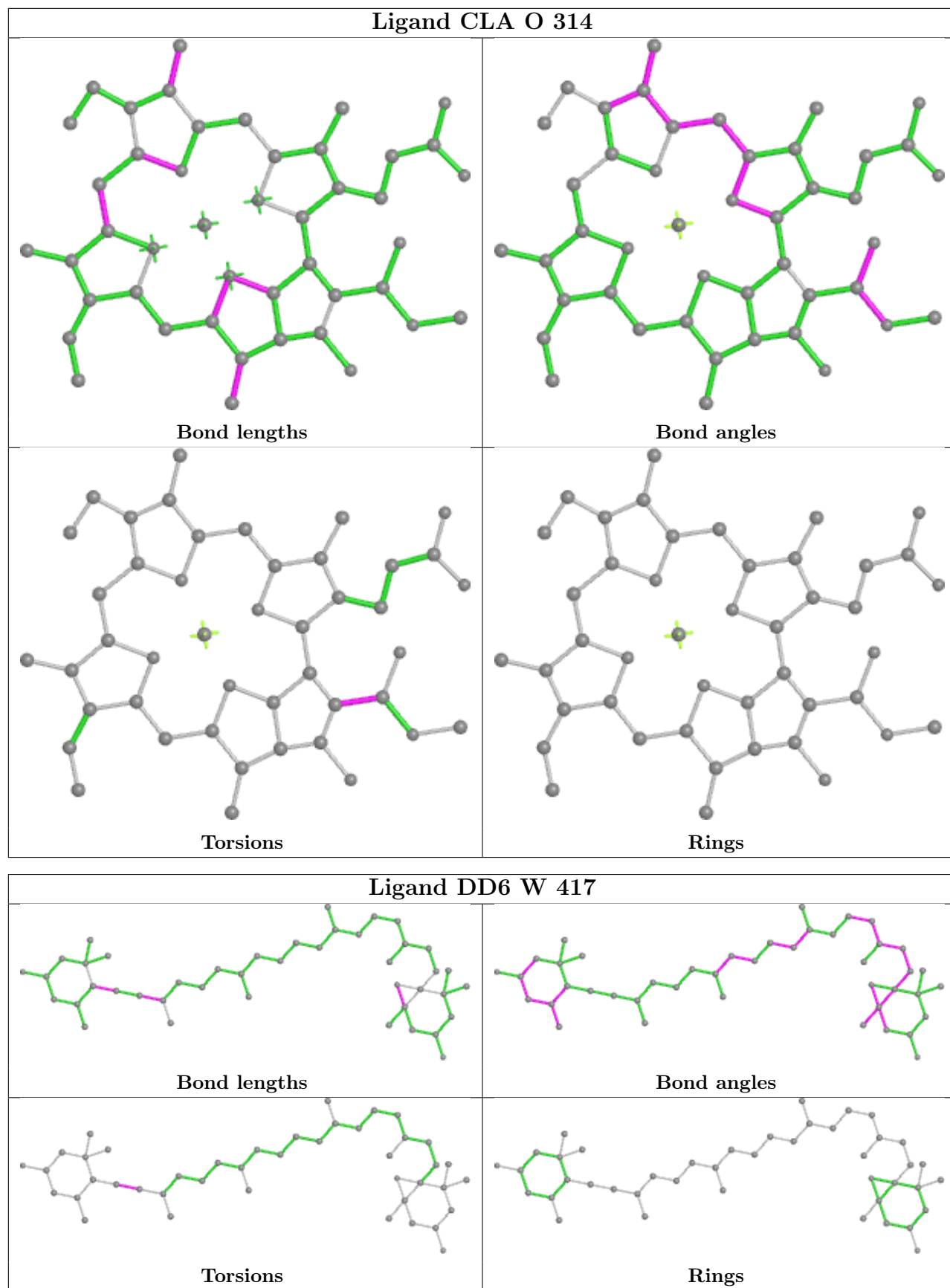


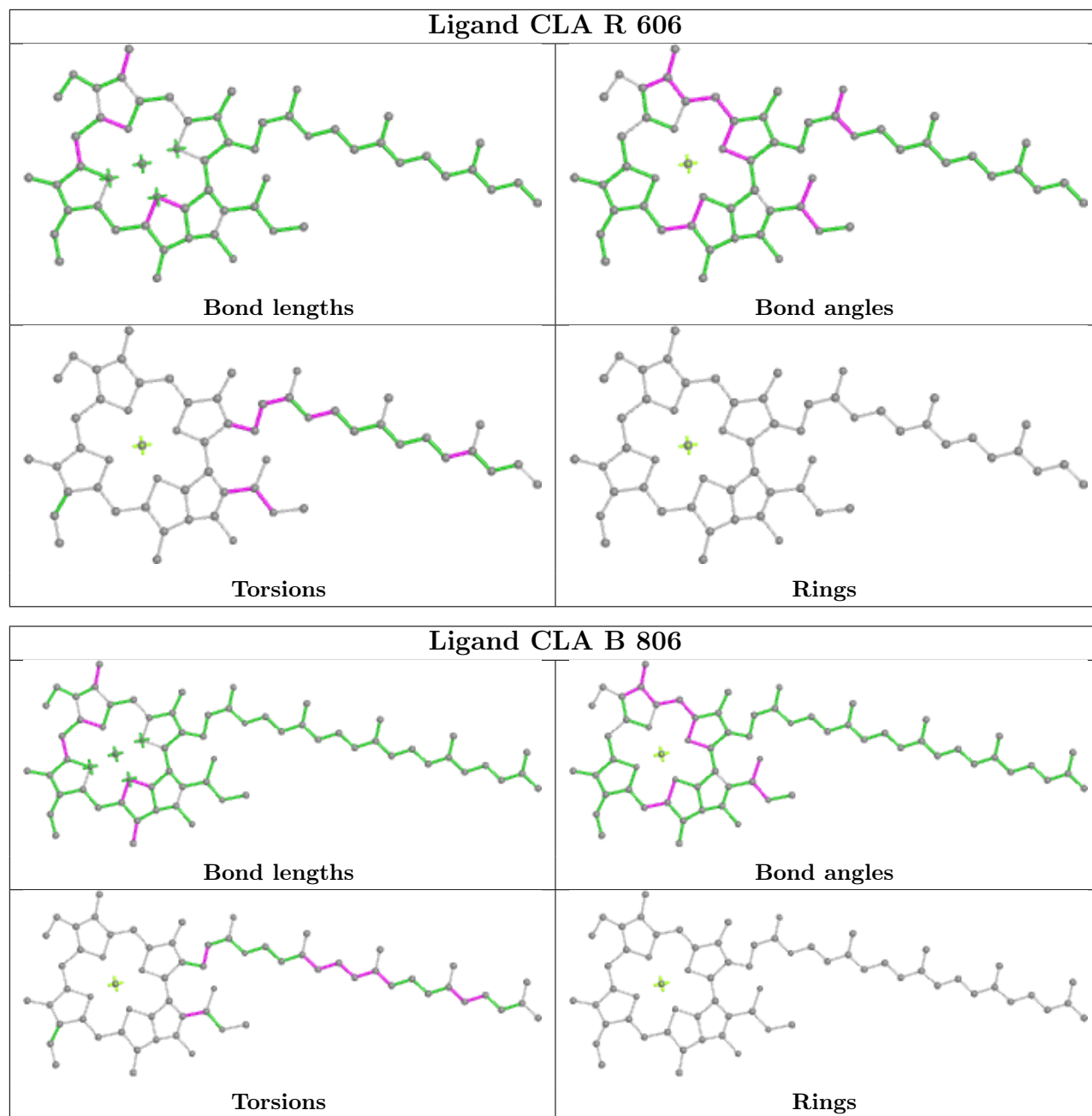


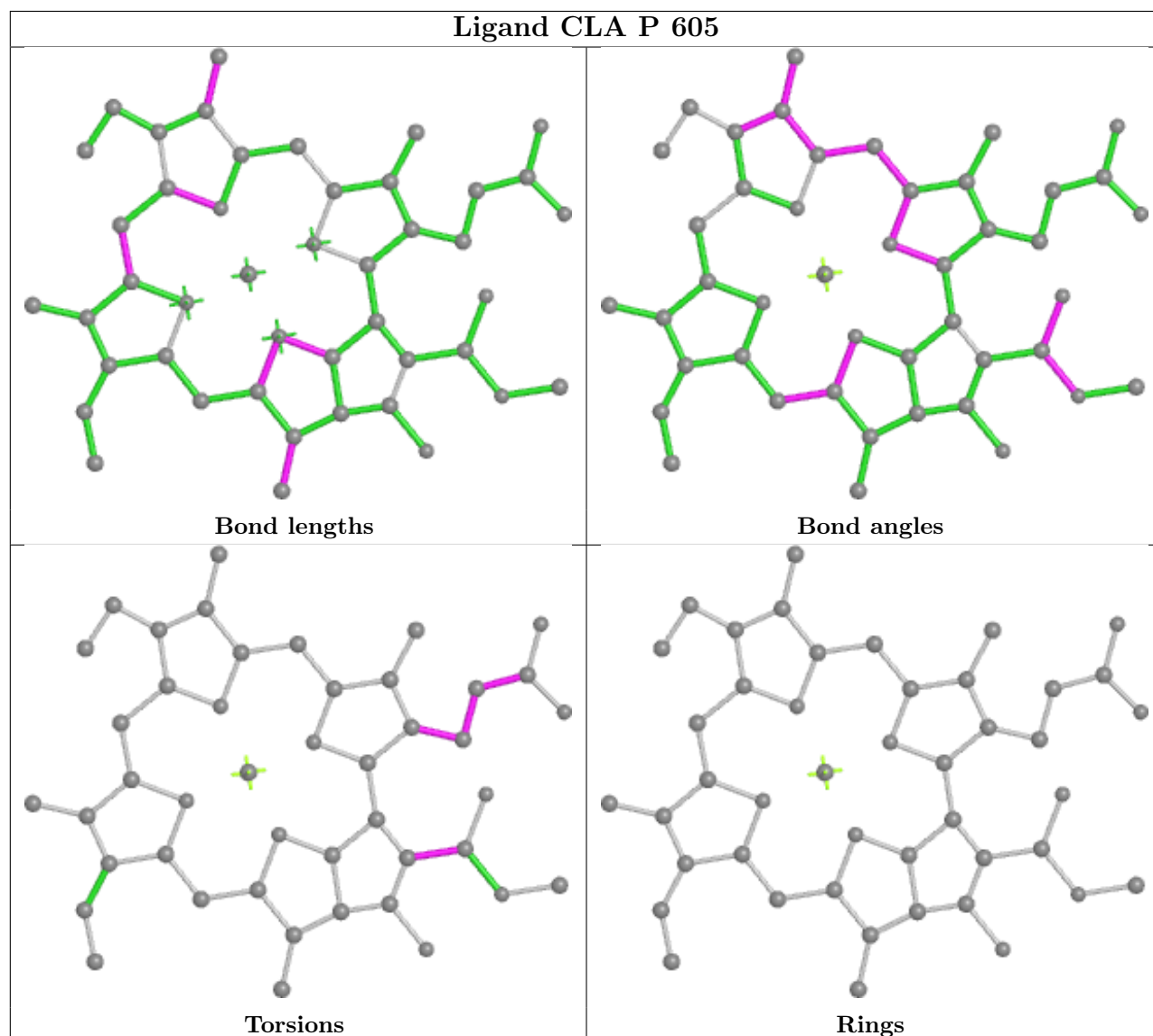
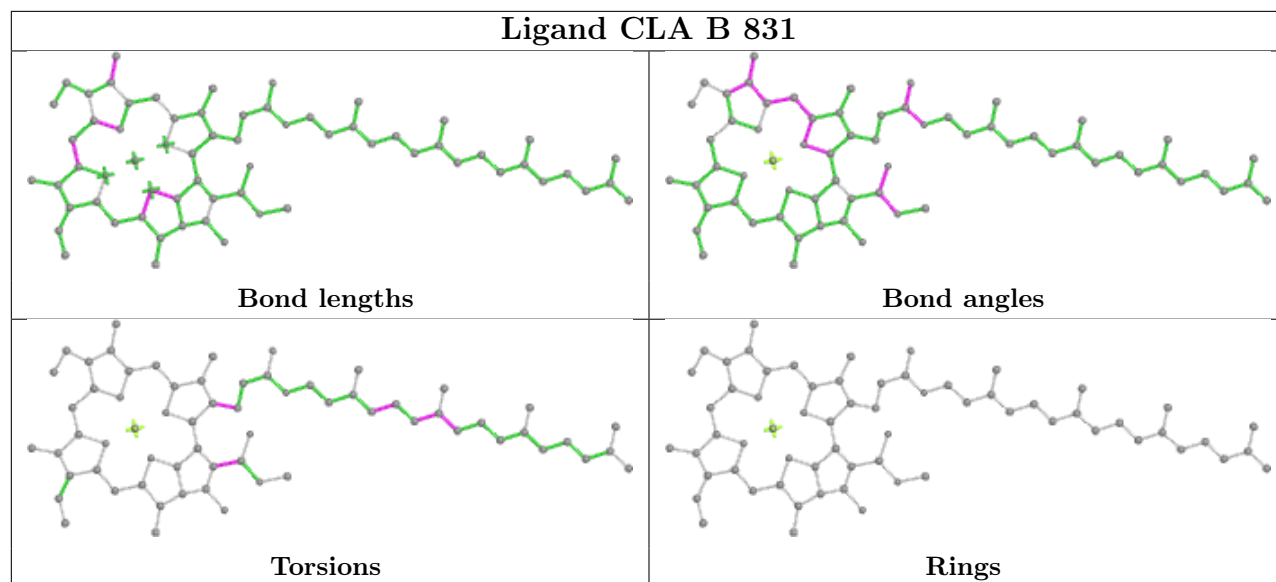


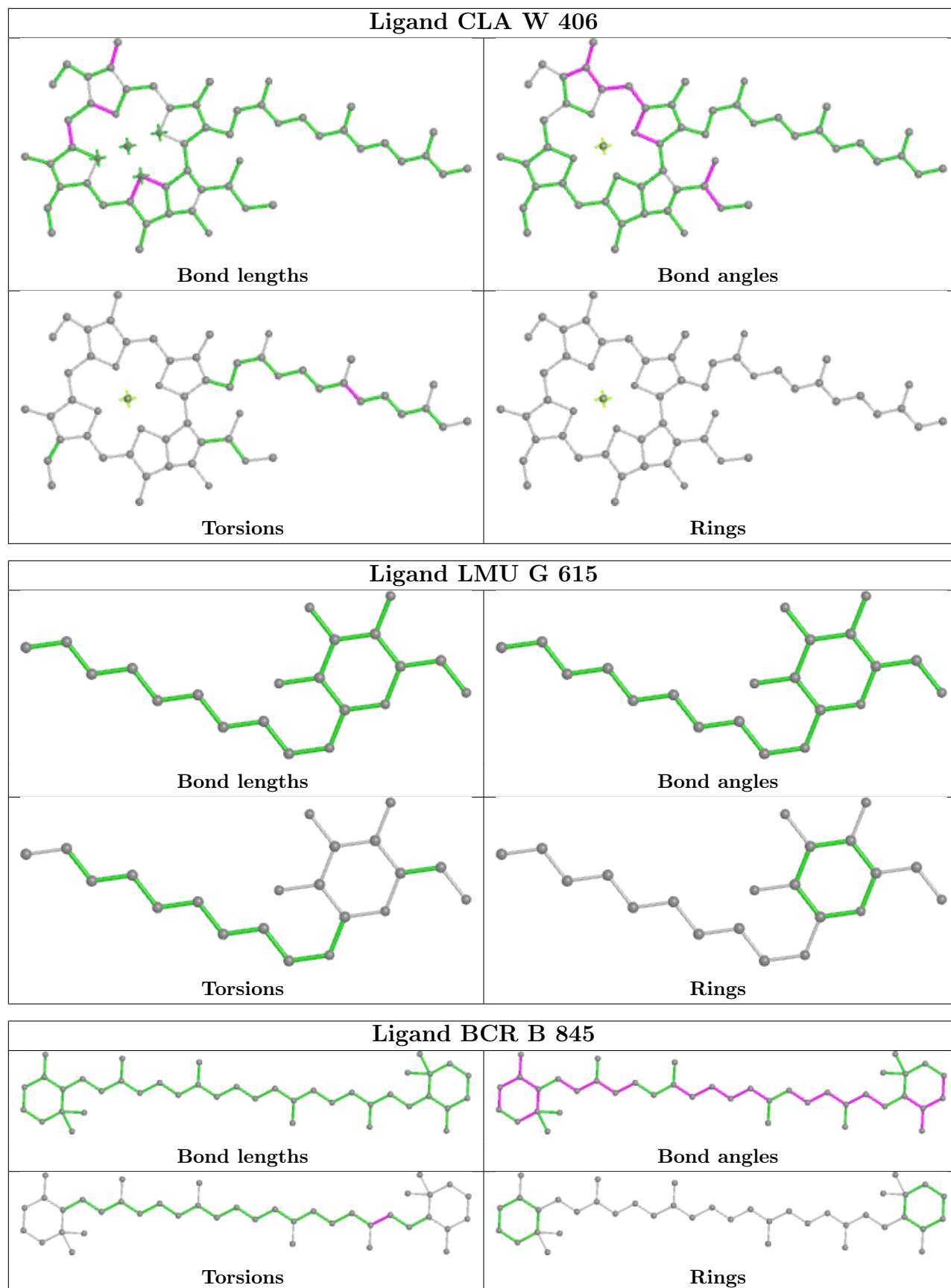


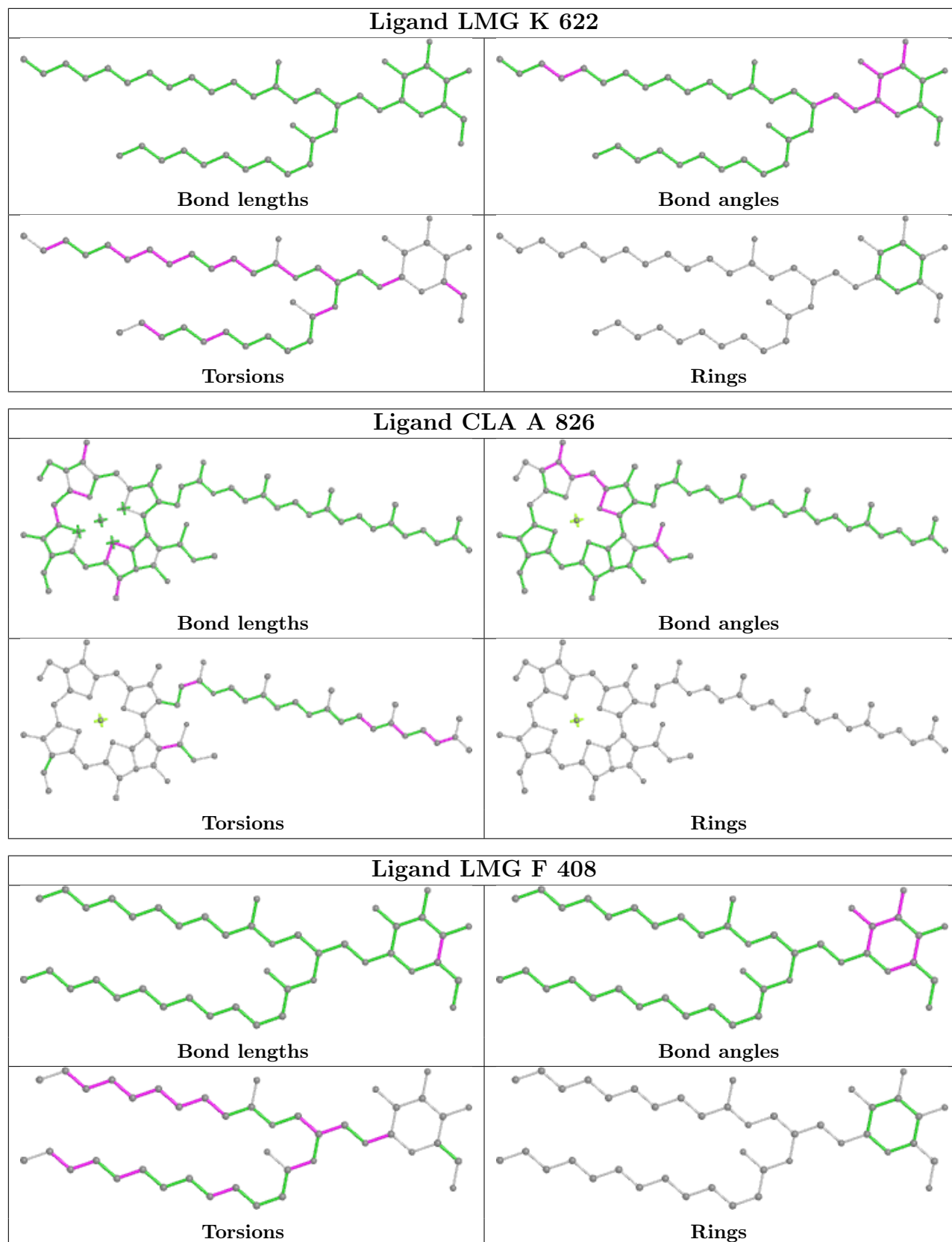


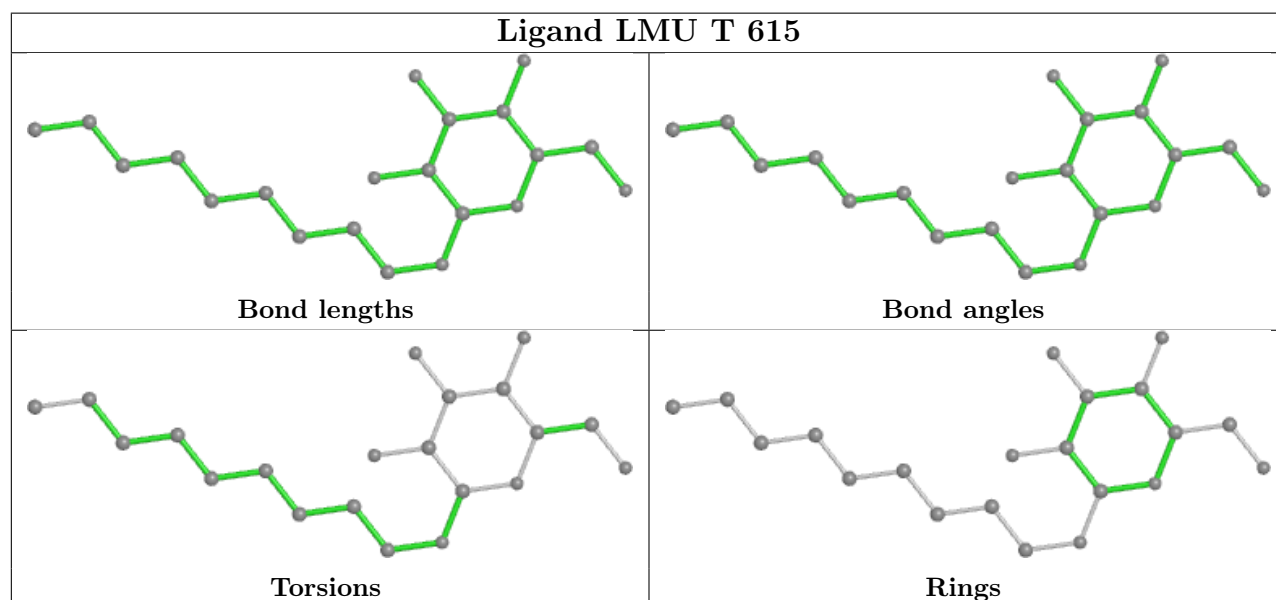
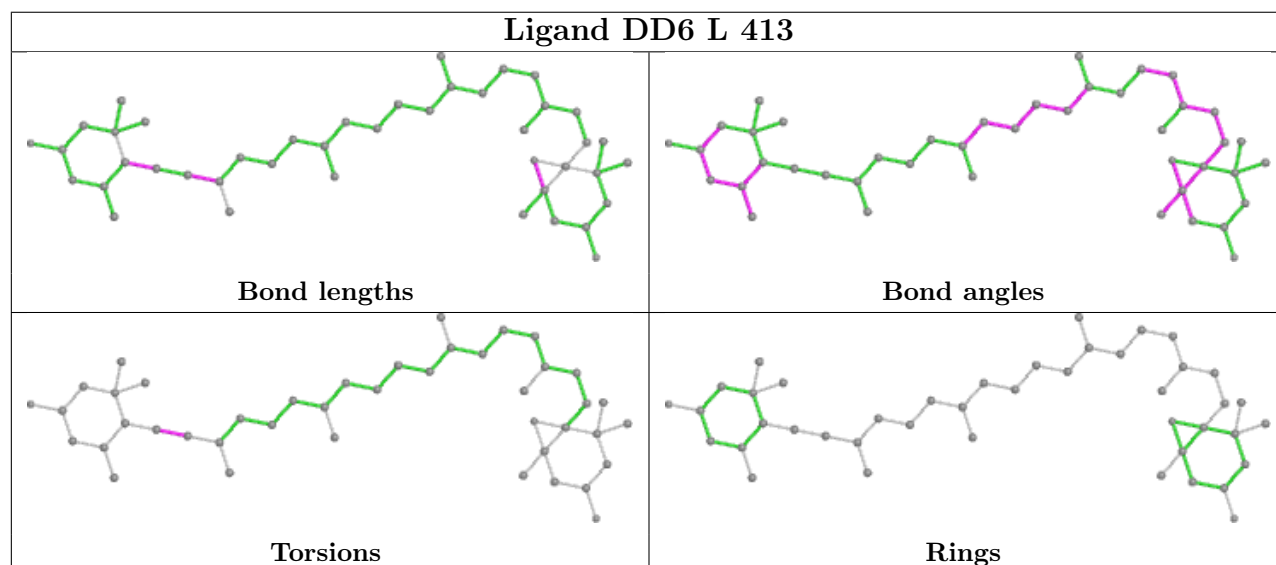
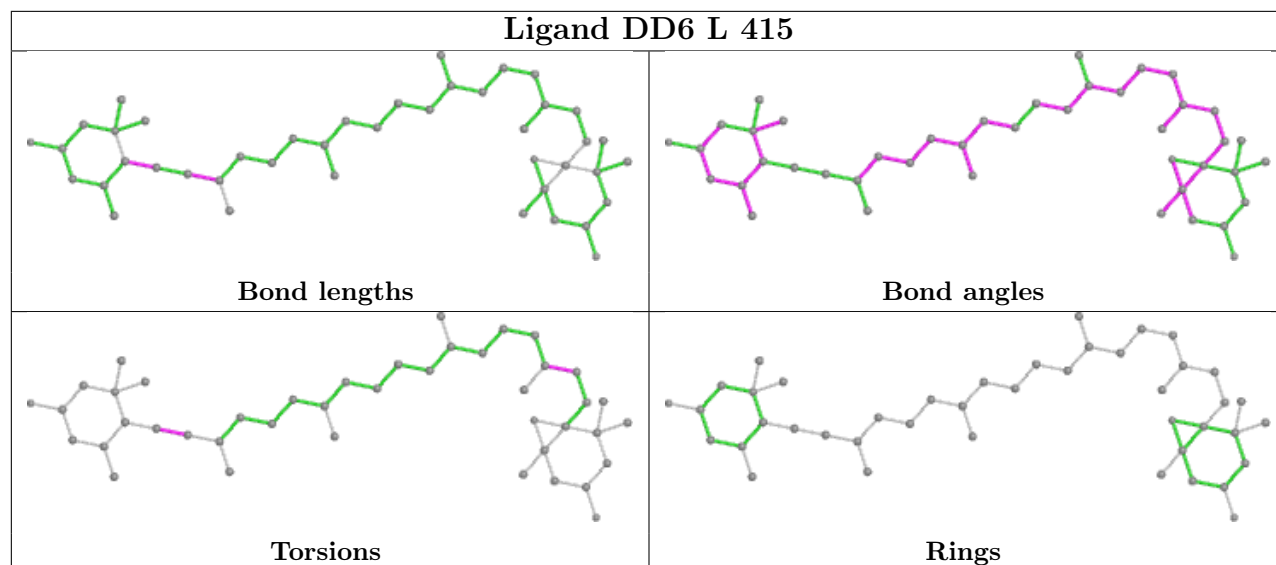


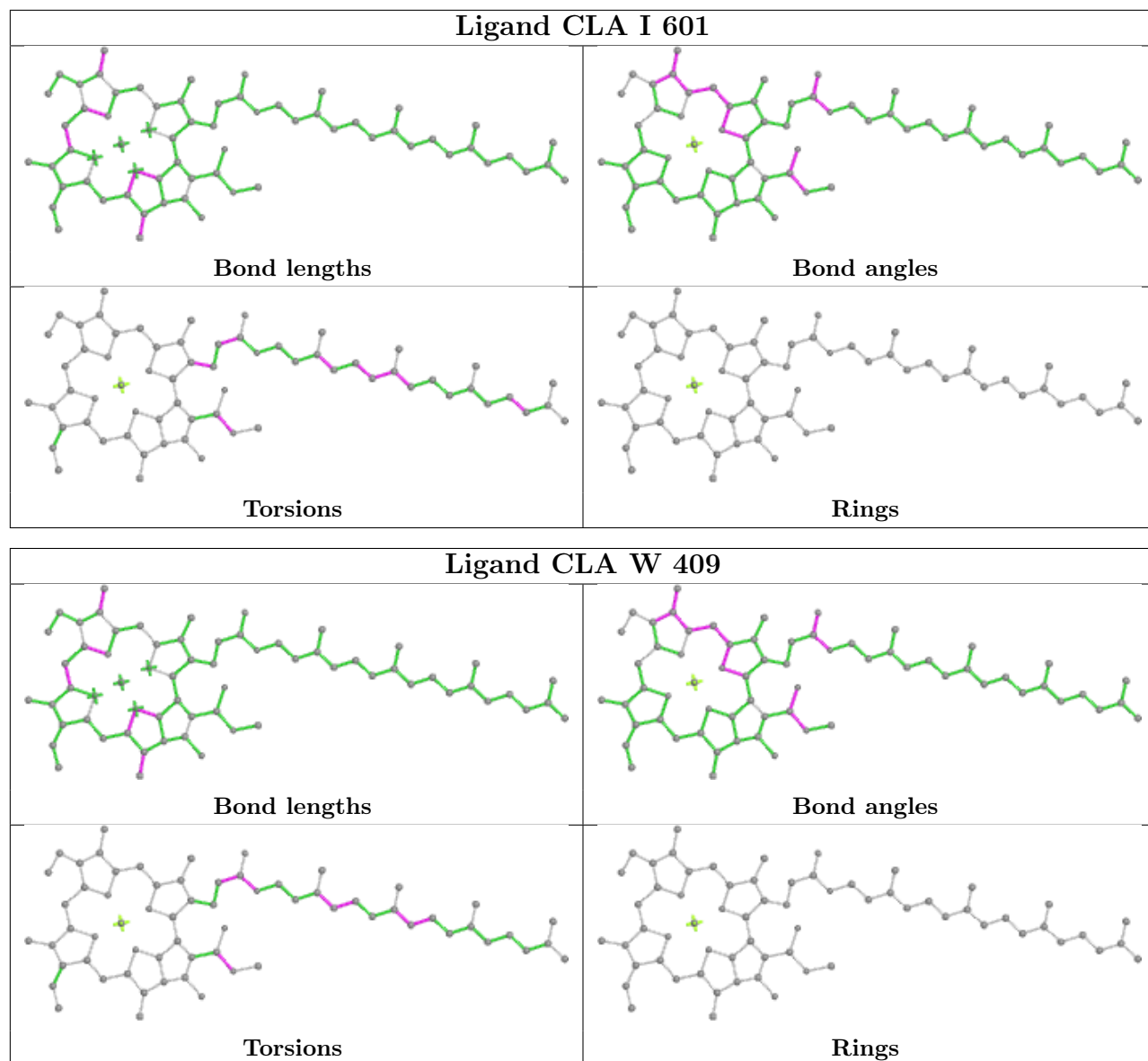


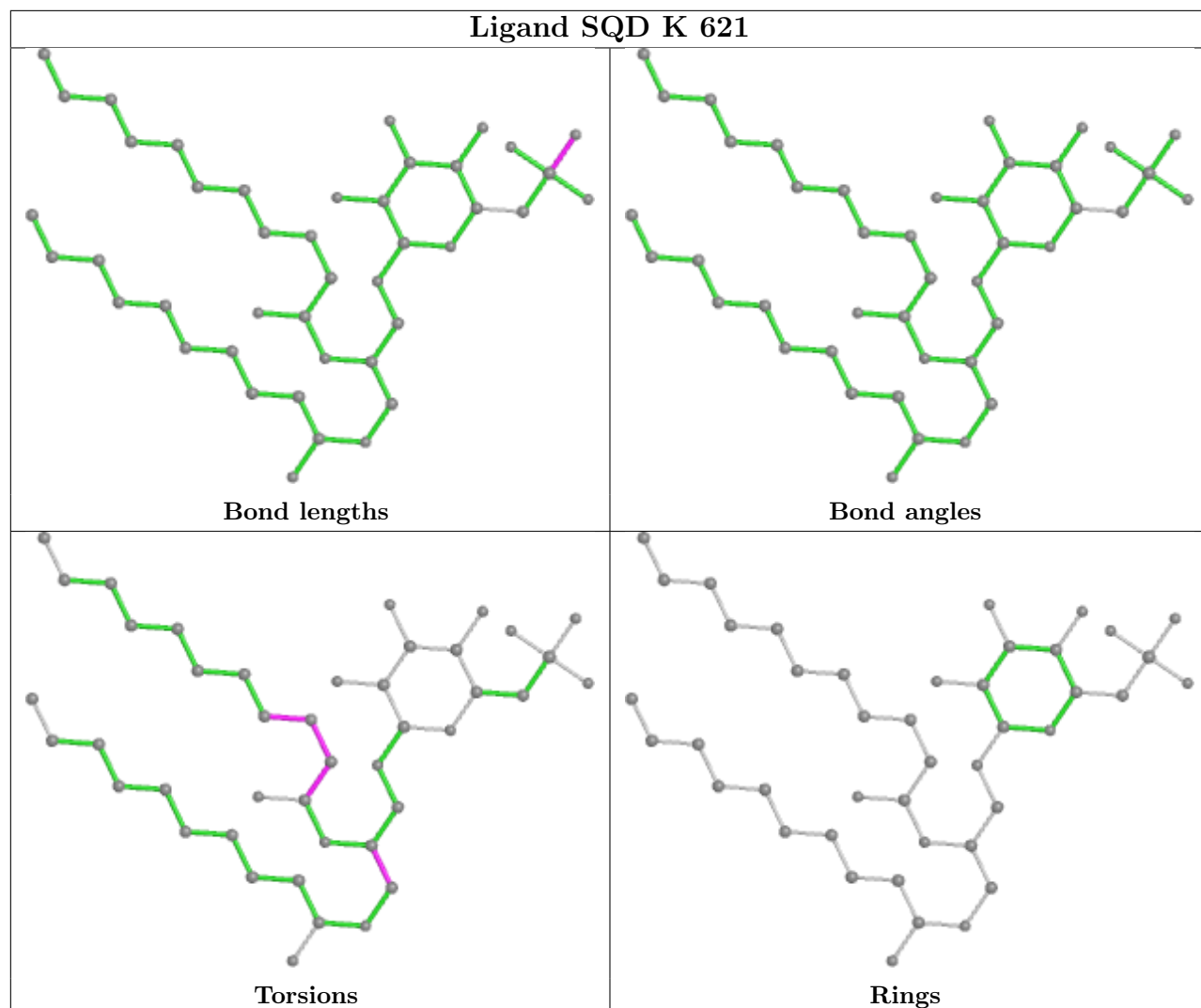


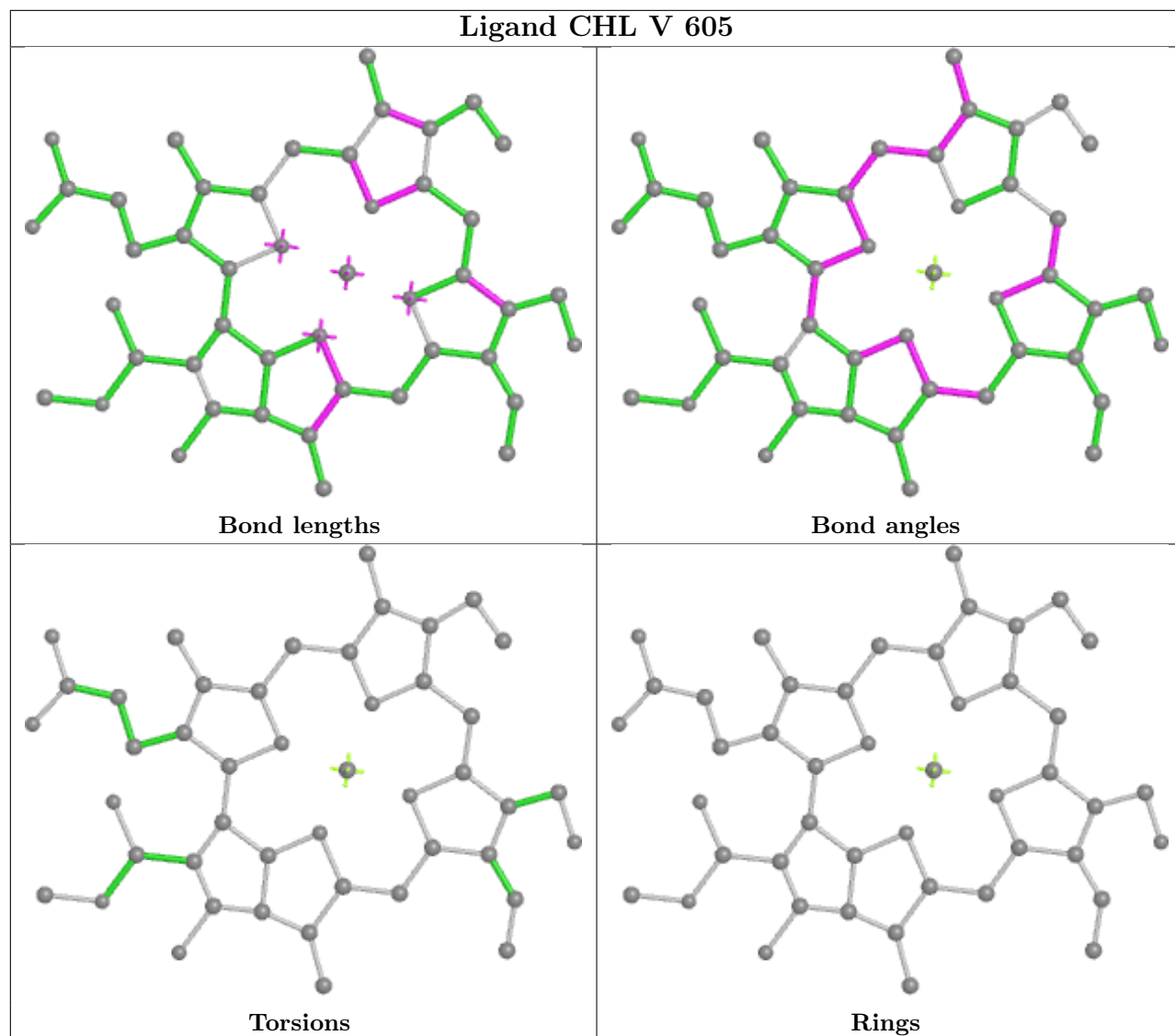


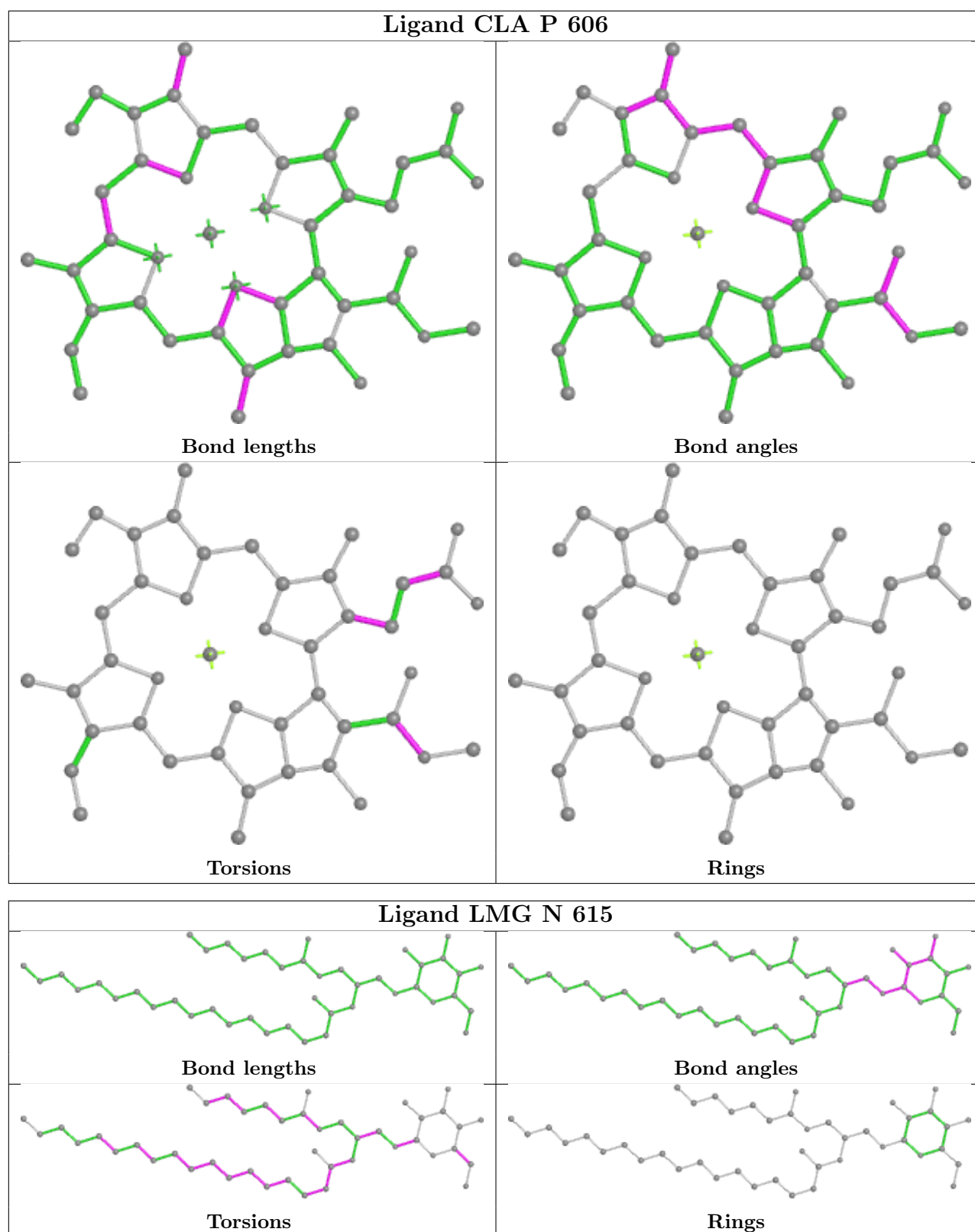


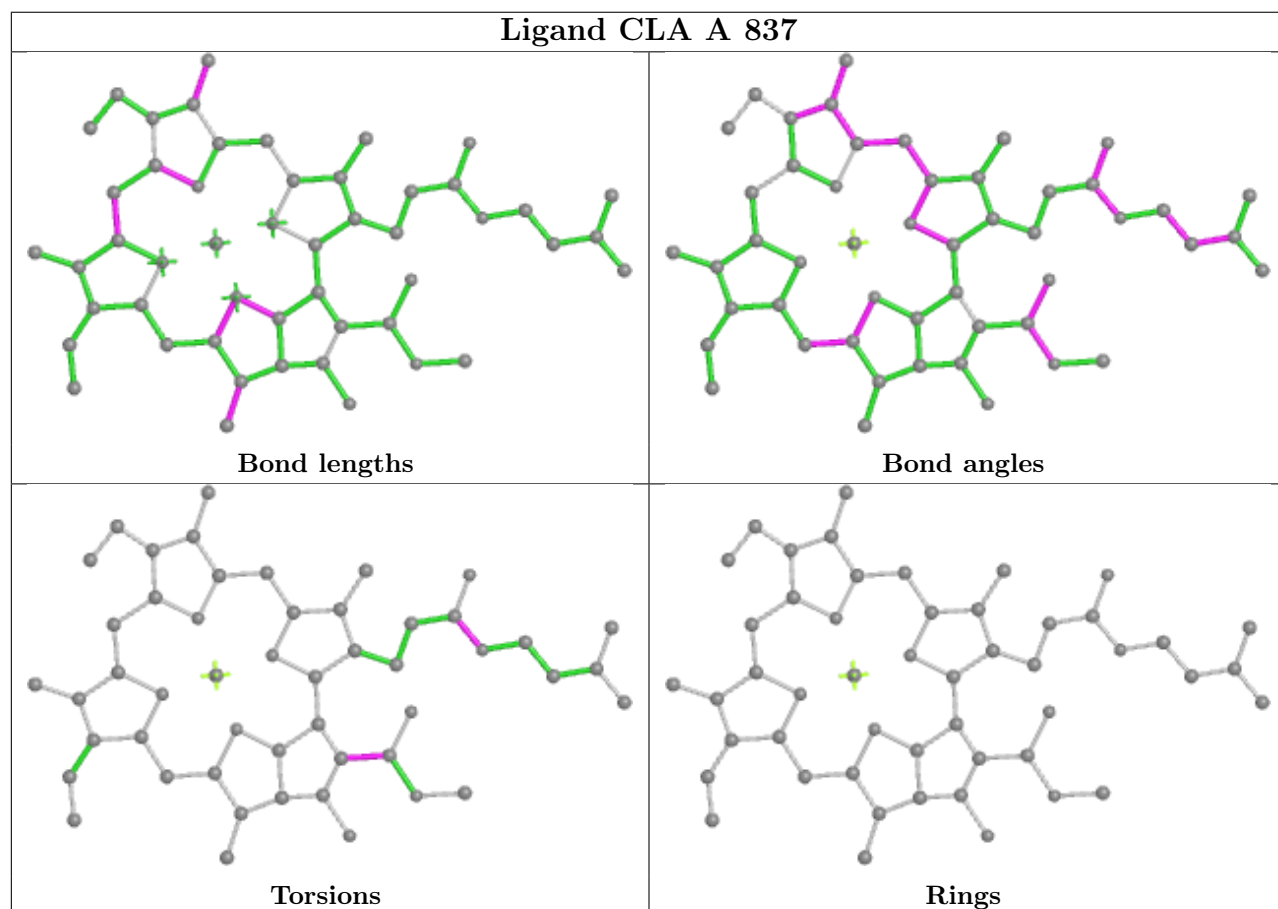
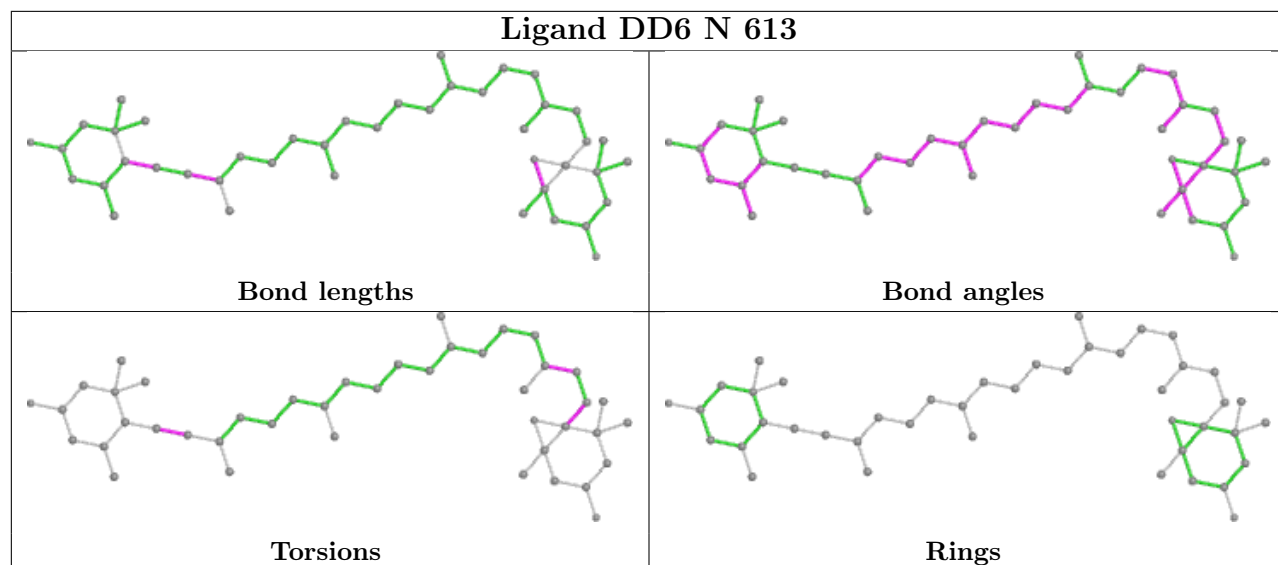


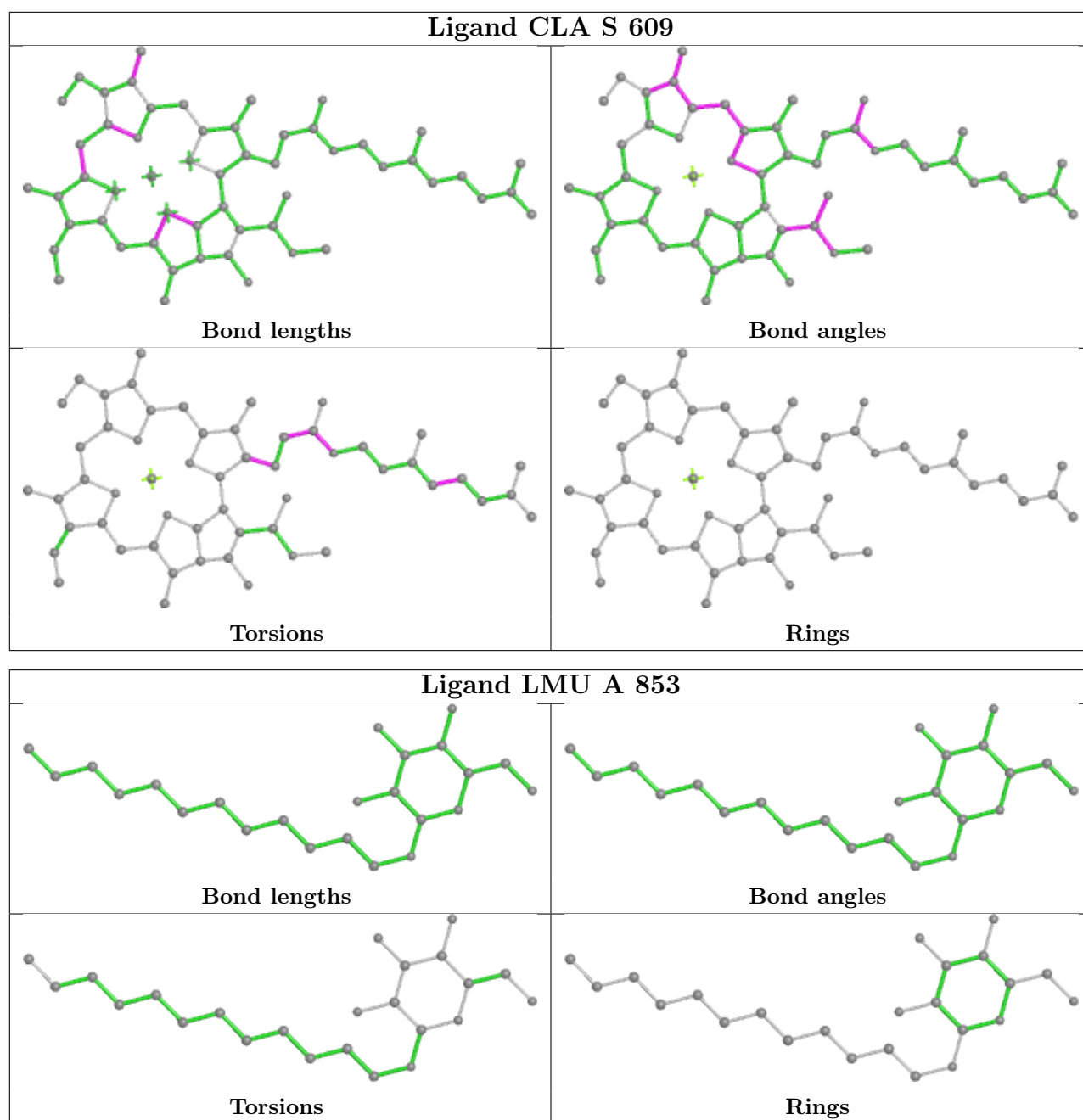












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

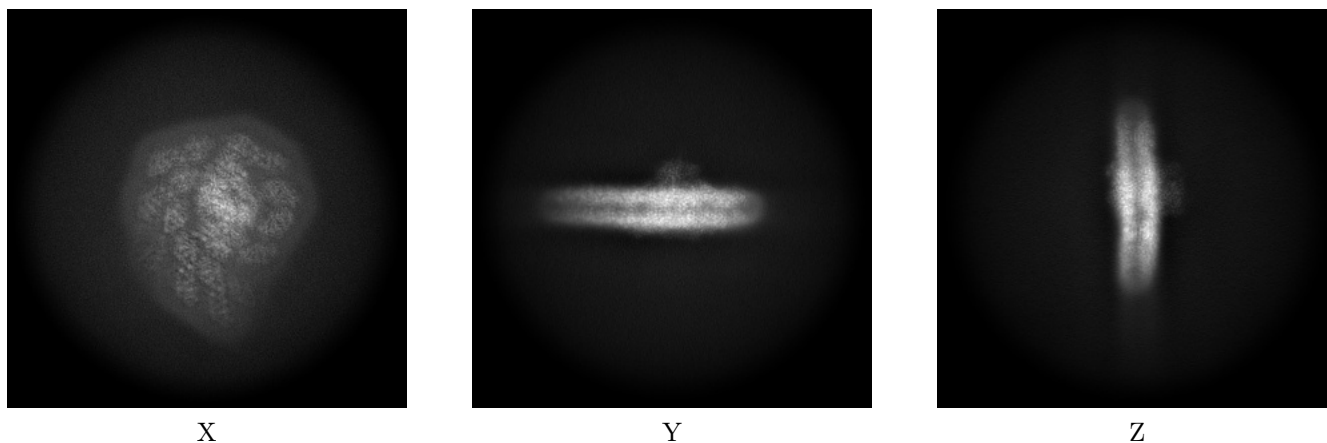
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-63994. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections [i](#)

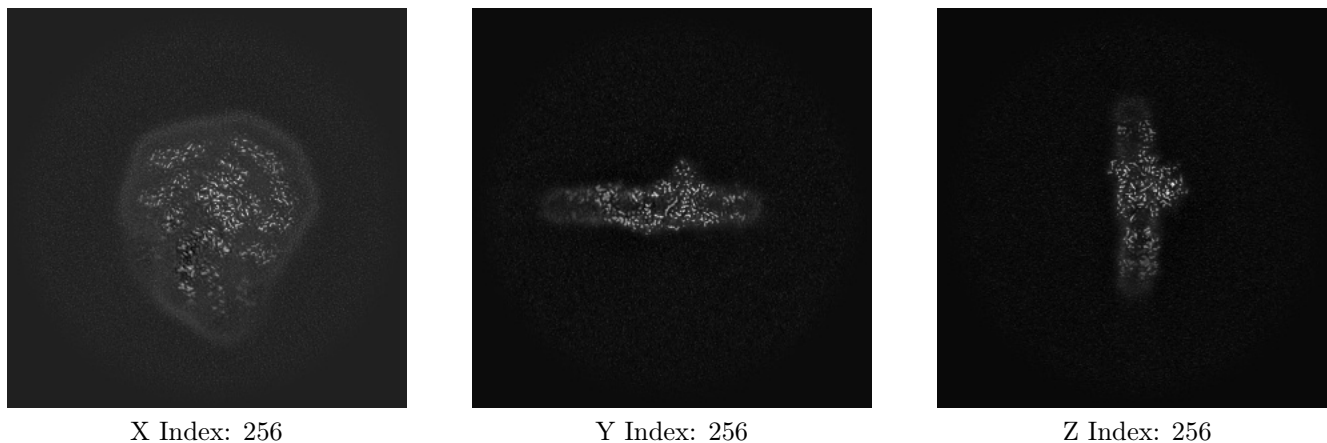
6.1.1 Primary map



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

6.2 Central slices [i](#)

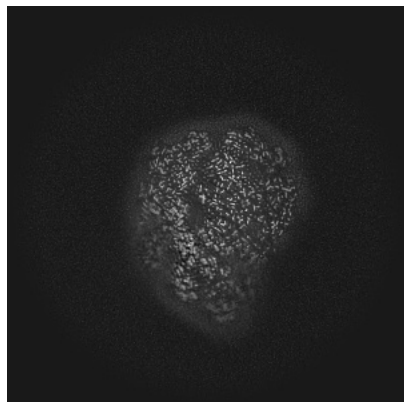
6.2.1 Primary map



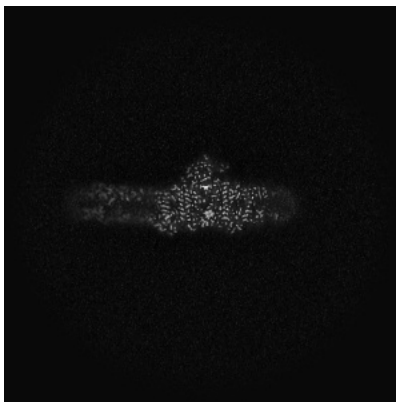
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

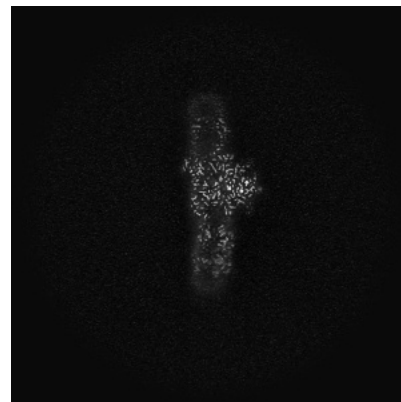
6.3.1 Primary map



X Index: 270



Y Index: 278

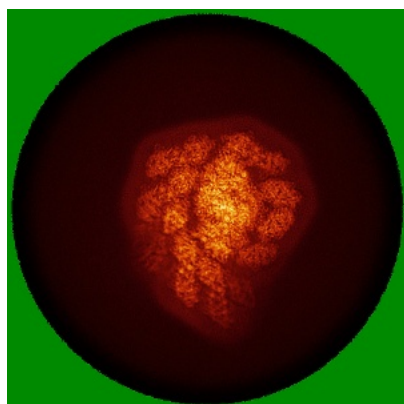


Z Index: 257

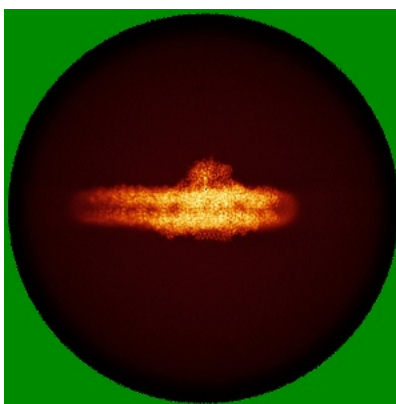
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

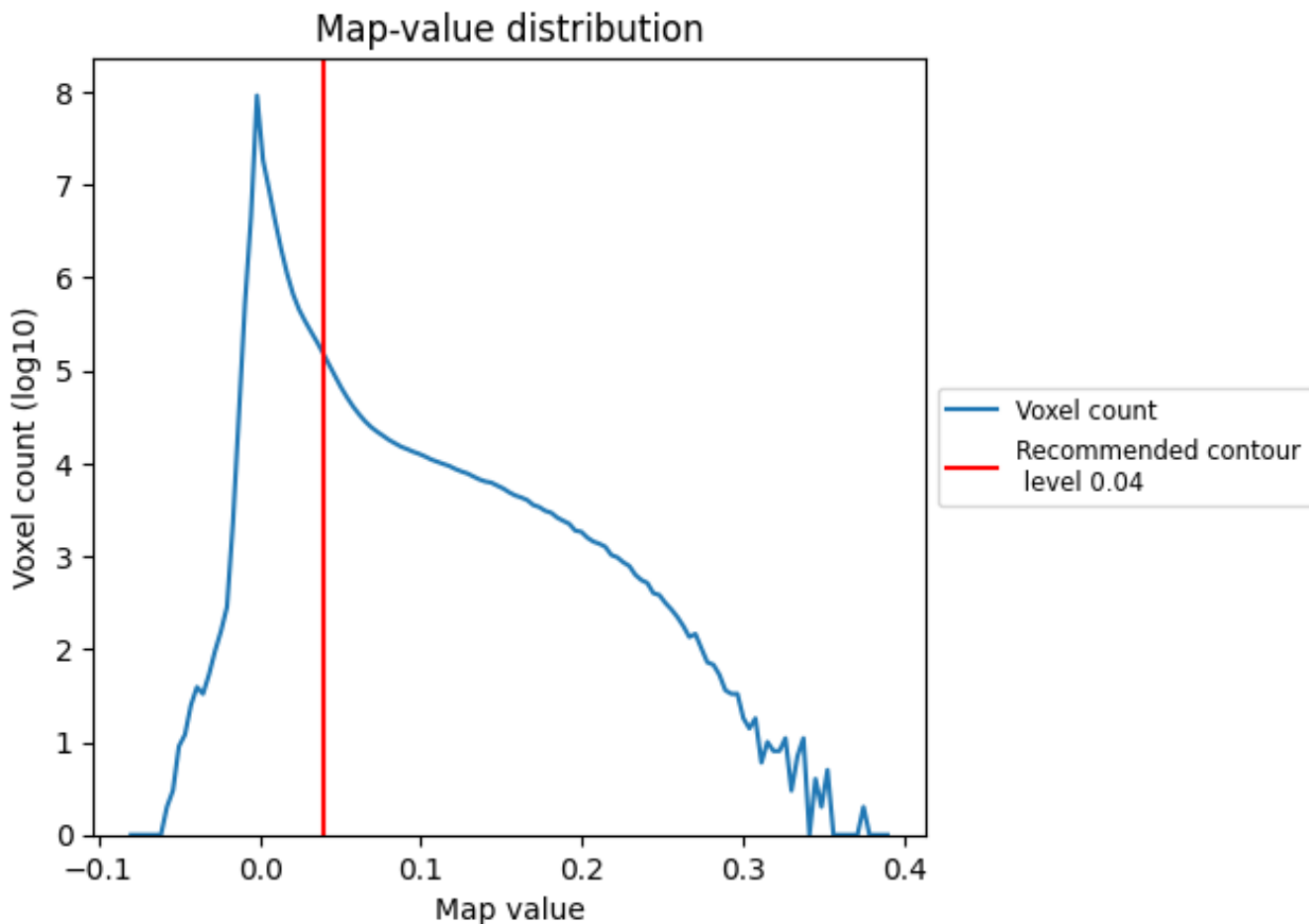
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

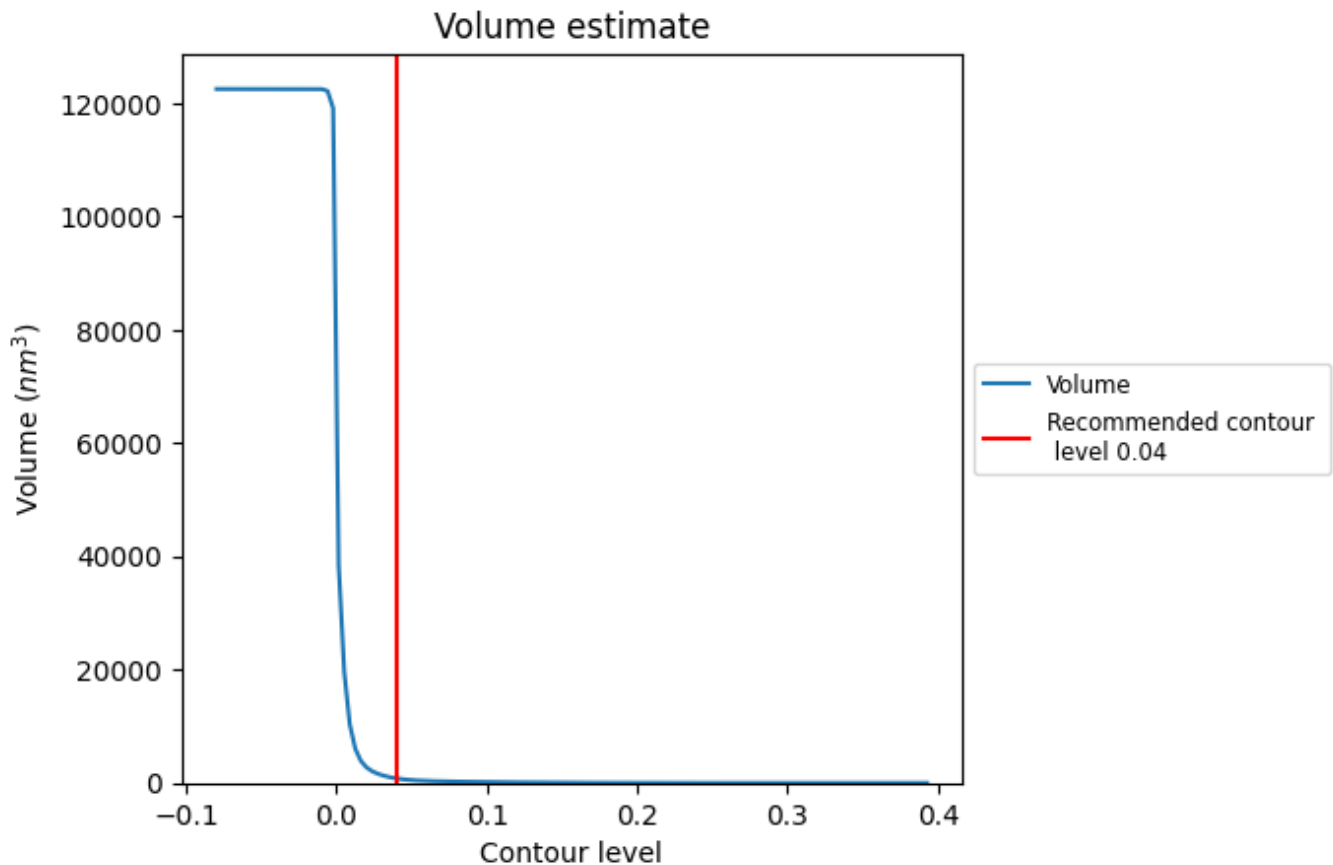
This section contains the results of statistical analysis of the map.

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.

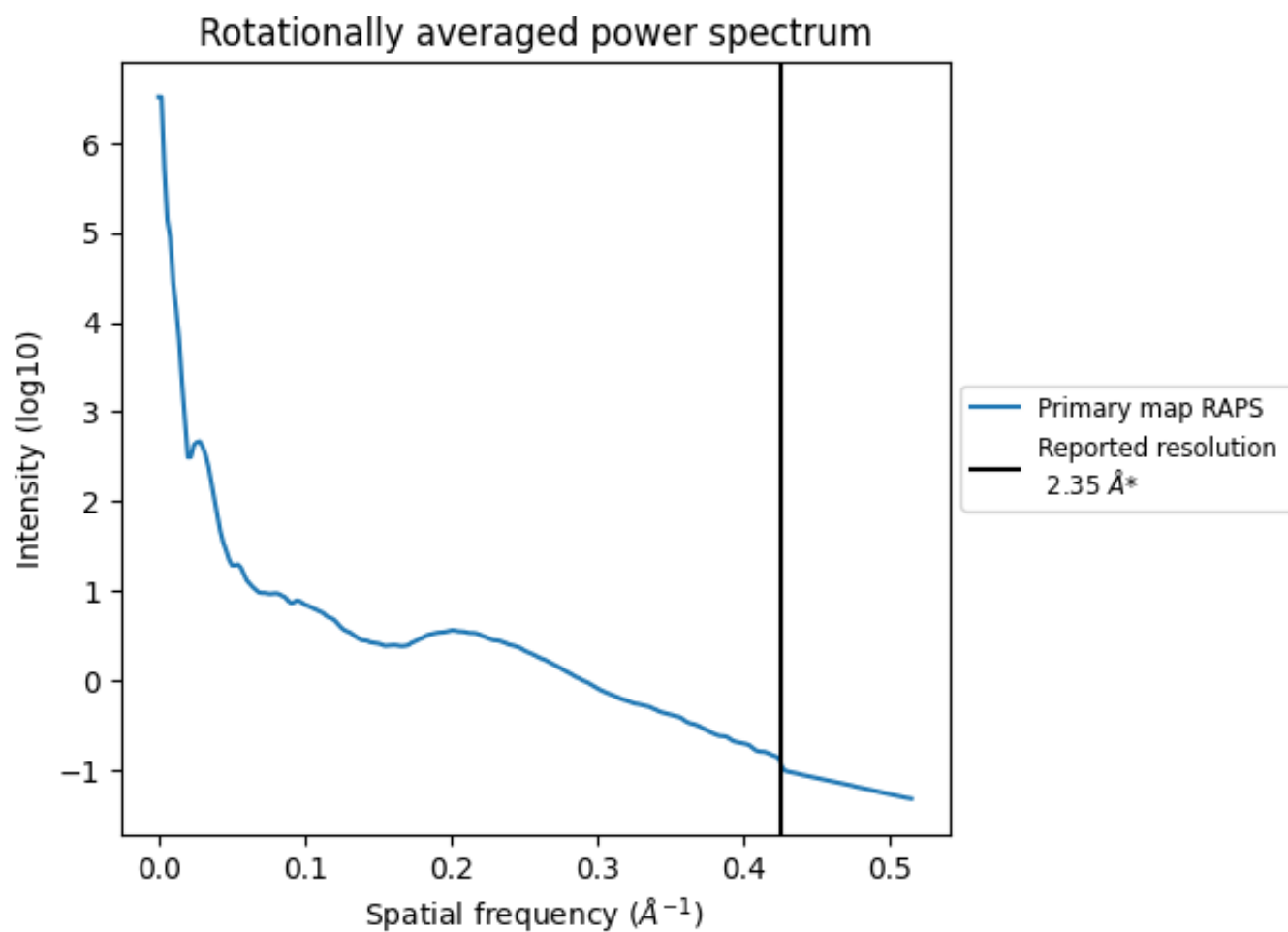
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 801 nm³; this corresponds to an approximate mass of 724 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)

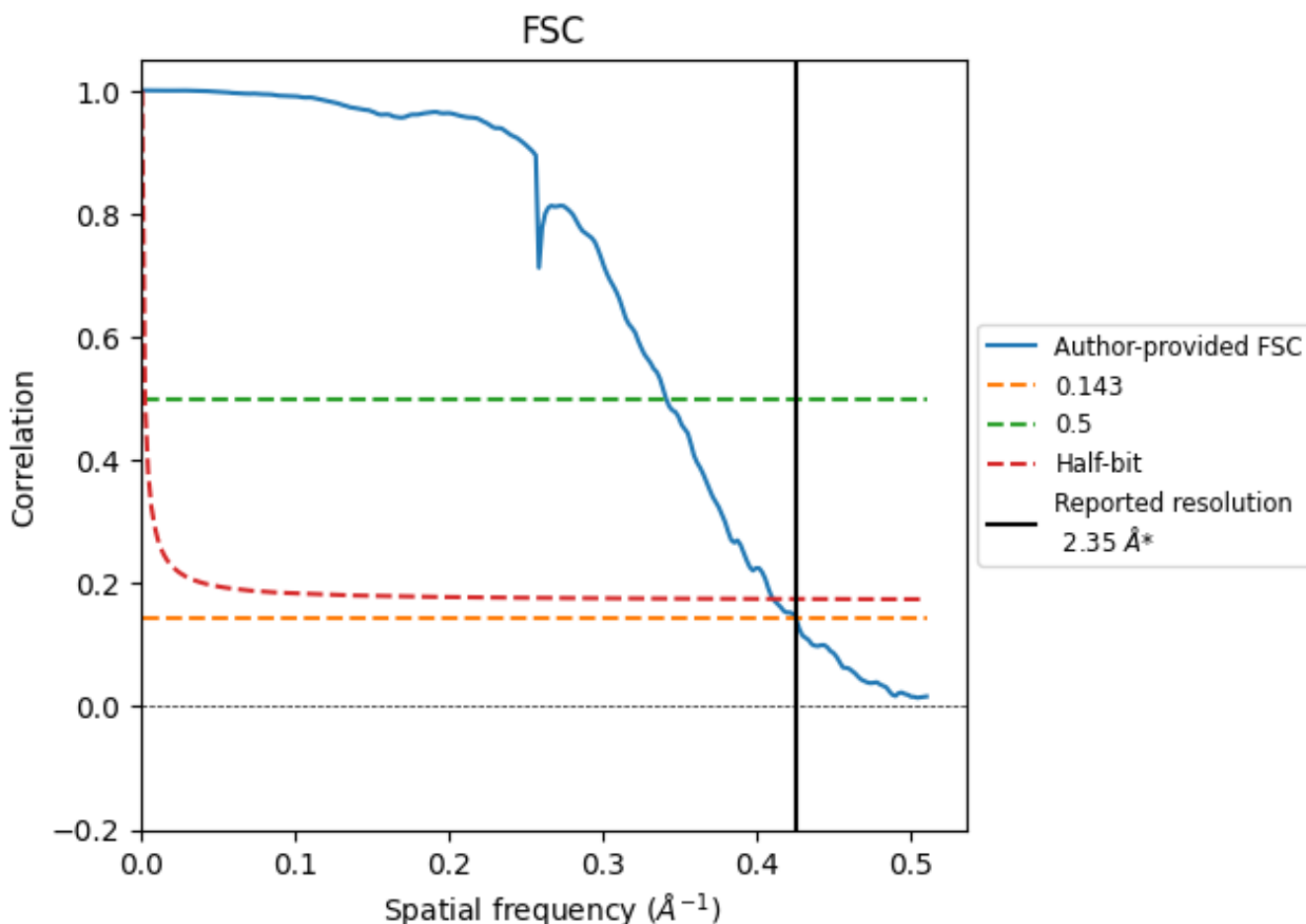


*Reported resolution corresponds to spatial frequency of 0.426 Å⁻¹

8 Fourier-Shell correlation [\(i\)](#)

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

8.1 FSC [\(i\)](#)



*Reported resolution corresponds to spatial frequency of 0.426 Å⁻¹

8.2 Resolution estimates [i](#)

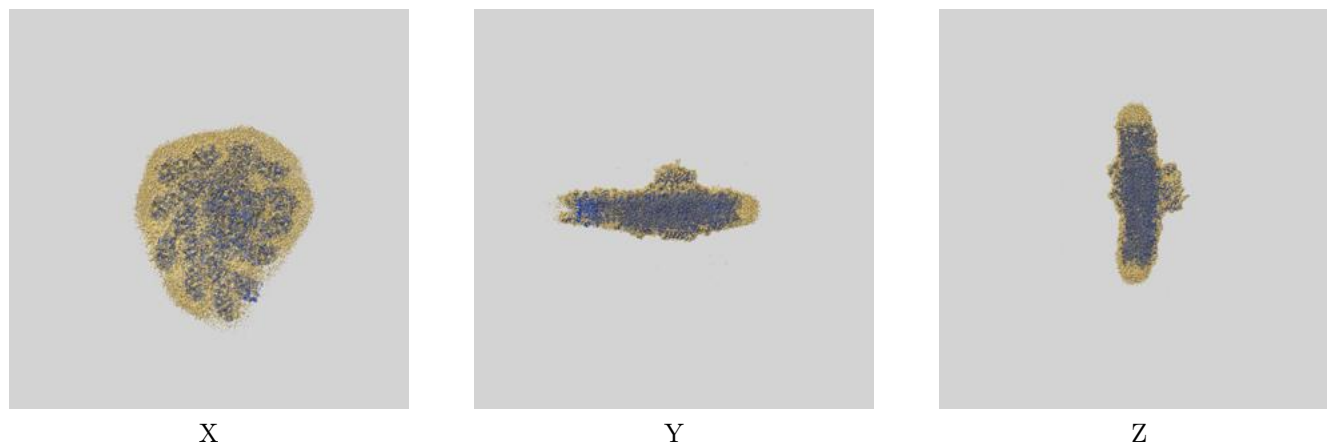
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.35	-	-
Author-provided FSC curve	2.35	2.93	2.43
Unmasked-calculated*	-	-	-

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

9 Map-model fit [i](#)

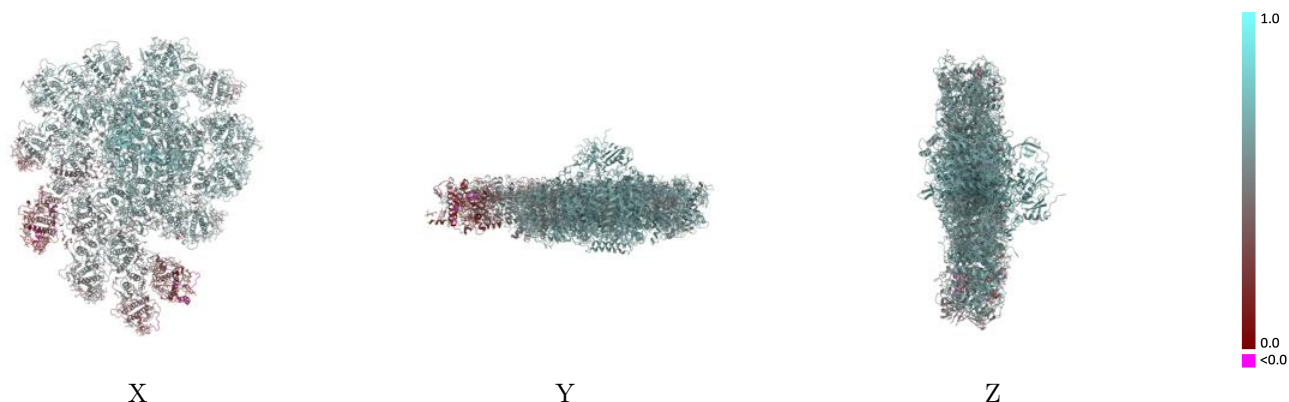
This section contains information regarding the fit between EMDB map EMD-63994 and PDB model 9UAS. Per-residue inclusion information can be found in section 3 on page 42.

9.1 Map-model overlay [i](#)



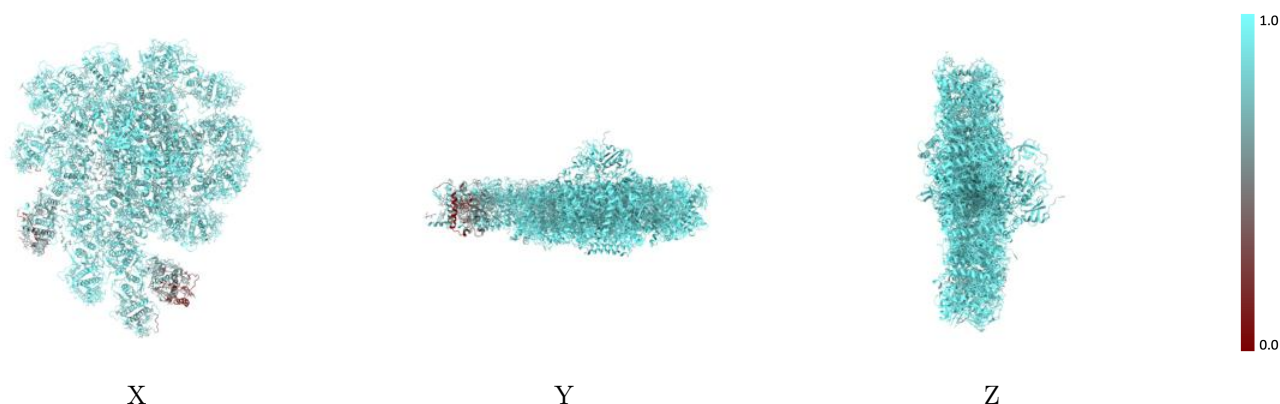
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



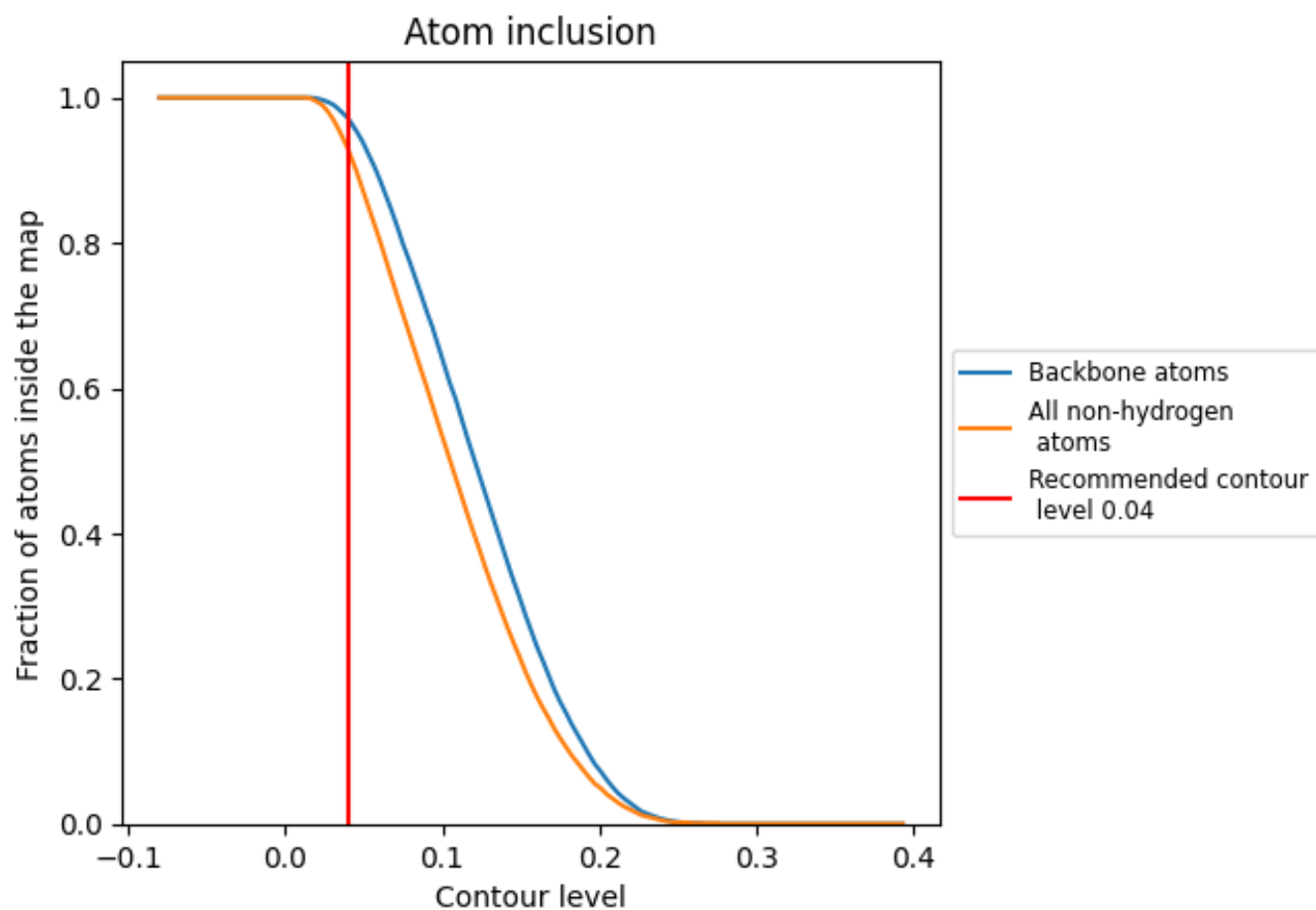
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).



















































9.4 Atom inclusion [i](#)



At the recommended contour level, 97% of all backbone atoms, 93% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9300	 0.5550
A	 0.9840	 0.6580
B	 0.9780	 0.6190
C	 0.9970	 0.6770
D	 0.9510	 0.6400
E	 0.9560	 0.6350
F	 0.9620	 0.6150
G	 0.9560	 0.5620
H	 0.9670	 0.5870
I	 0.9400	 0.4830
J	 0.9420	 0.6280
K	 0.9690	 0.6110
L	 0.9710	 0.5060
M	 0.9840	 0.5760
N	 0.9490	 0.4660
O	 0.9660	 0.4920
P	 0.7790	 0.3540
Q	 0.9570	 0.5030
R	 0.4970	 0.2490
S	 0.9380	 0.5600
T	 0.9500	 0.6030
U	 0.9200	 0.5570
V	 0.6770	 0.2230
W	 0.9550	 0.6060
X	 0.9420	 0.6030

