



Full wwPDB X-ray Structure Validation Report ⓘ

May 16, 2020 – 06:51 pm BST

PDB ID : 5L8R
Title : The structure of plant photosystem I super-complex at 2.6 angstrom resolution.
Authors : Mazor, Y.; Borovikova, A.; Caspy, I.; Nelson, N.
Deposited on : 2016-06-08
Resolution : 2.60 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

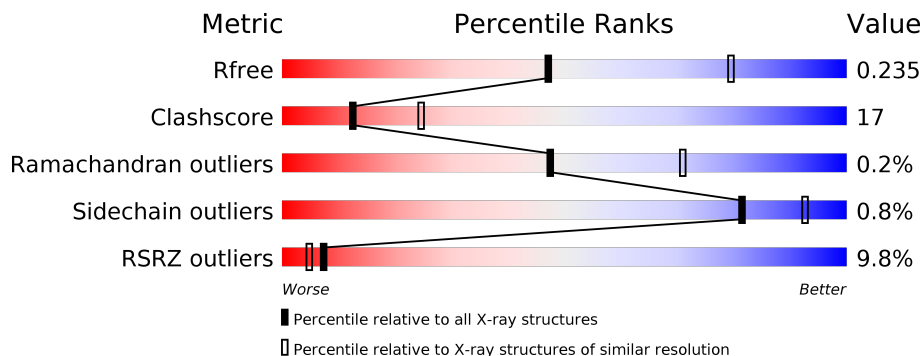
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 Å.

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



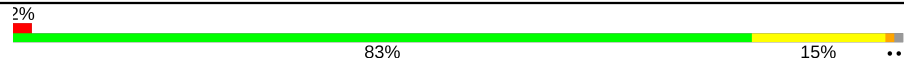
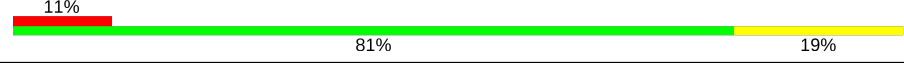
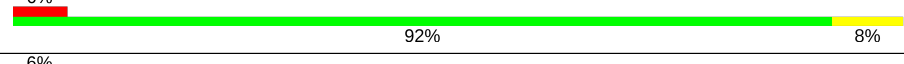


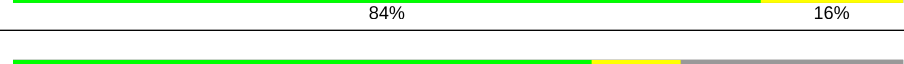
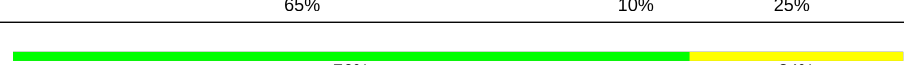
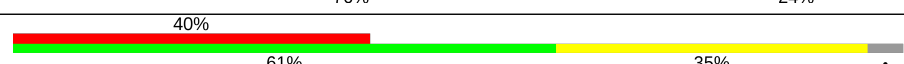
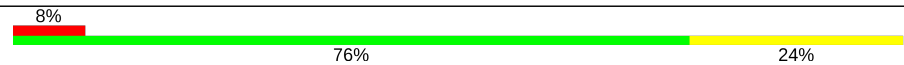

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)

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

Mol	Chain	Length	Quality of chain
1	1	193	<div style="display: flex; align-items: center;"> <div style="width: 30%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 70%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 29%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div>
2	2	269	<div style="display: flex; align-items: center;"> <div style="width: 10%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 56%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 22%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 23%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div>
3	3	275	<div style="display: flex; align-items: center;"> <div style="width: 12%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 60%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 20%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 20%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div>
4	4	198	<div style="display: flex; align-items: center;"> <div style="width: 12%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 74%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 26%; height: 10px; background-color: yellow; margin-right: 5px;"></div> </div>
5	A	758	<div style="display: flex; align-items: center;"> <div style="width: 7%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 78%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 20%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 3%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div>
6	B	734	<div style="display: flex; align-items: center;"> <div style="width: 4%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 79%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 20%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 1%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div>

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Mol	Chain	Length	Quality of chain
7	C	81	
8	D	143	
9	E	66	
10	F	154	
11	G	97	
12	H	88	
13	I	40	
14	J	42	
15	K	80	
16	L	157	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
17	LUT	1	502	X	-	-	-
17	LUT	2	501	X	-	-	-
17	LUT	3	302	X	-	-	-
17	LUT	J	1109	X	-	-	-
18	BCR	2	503	-	-	-	X
18	BCR	3	304	-	-	-	X
18	BCR	K	1005	-	-	-	X
18	BCR	L	307	-	-	-	X
19	CLA	1	504	X	-	-	-
19	CLA	1	505	X	-	-	-
19	CLA	1	506	X	-	-	-
19	CLA	1	507	X	-	-	-
19	CLA	1	508	X	-	-	-
19	CLA	1	509	X	-	-	-
19	CLA	1	510	X	-	-	-
19	CLA	1	511	X	-	-	-
19	CLA	1	513	X	-	-	-
19	CLA	1	515	X	-	-	-
19	CLA	1	516	X	-	-	-
19	CLA	2	504	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
19	CLA	2	505	X	-	-	-
19	CLA	2	506	X	-	-	-
19	CLA	2	507	X	-	-	-
19	CLA	2	508	X	-	-	-
19	CLA	2	509	X	-	-	-
19	CLA	2	510	X	-	-	-
19	CLA	2	511	X	-	-	-
19	CLA	2	514	X	-	-	-
19	CLA	3	305	X	-	-	-
19	CLA	3	306	X	-	-	-
19	CLA	3	307	X	-	-	-
19	CLA	3	308	X	-	-	-
19	CLA	3	309	X	-	-	-
19	CLA	3	310	X	-	-	-
19	CLA	3	311	X	-	-	-
19	CLA	3	312	X	-	-	-
19	CLA	3	313	X	-	-	-
19	CLA	3	315	X	-	-	-
19	CLA	3	316	X	-	-	-
19	CLA	3	317	X	-	-	-
19	CLA	4	304	X	-	-	-
19	CLA	4	305	X	-	-	-
19	CLA	4	306	X	-	-	-
19	CLA	4	307	X	-	-	-
19	CLA	4	308	X	-	-	-
19	CLA	4	309	X	-	-	-
19	CLA	4	310	X	-	-	-
19	CLA	4	311	X	-	-	-
19	CLA	4	312	X	-	-	-
19	CLA	4	315	X	-	-	-
19	CLA	4	318	X	-	-	-
19	CLA	A	802	X	-	-	-
19	CLA	A	803	X	-	-	-
19	CLA	A	804	X	-	-	-
19	CLA	A	805	X	-	-	-
19	CLA	A	806	X	-	-	-
19	CLA	A	807	X	-	-	-
19	CLA	A	808	X	-	-	-
19	CLA	A	809	X	-	-	-
19	CLA	A	810	X	-	-	-
19	CLA	A	811	X	-	-	-
19	CLA	A	812	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
19	CLA	A	813	X	-	-	-
19	CLA	A	814	X	-	-	-
19	CLA	A	815	X	-	-	-
19	CLA	A	816	X	-	-	-
19	CLA	A	817	X	-	-	-
19	CLA	A	818	X	-	-	-
19	CLA	A	819	X	-	-	-
19	CLA	A	820	X	-	-	-
19	CLA	A	821	X	-	-	-
19	CLA	A	822	X	-	-	-
19	CLA	A	823	X	-	-	-
19	CLA	A	824	X	-	-	-
19	CLA	A	825	X	-	-	-
19	CLA	A	826	X	-	-	-
19	CLA	A	827	X	-	-	-
19	CLA	A	828	X	-	-	-
19	CLA	A	829	X	-	-	-
19	CLA	A	830	X	-	-	-
19	CLA	A	831	X	-	-	-
19	CLA	A	832	X	-	-	-
19	CLA	A	833	X	-	-	-
19	CLA	A	834	X	-	-	-
19	CLA	A	835	X	-	-	-
19	CLA	A	836	X	-	-	-
19	CLA	A	837	X	-	-	-
19	CLA	A	838	X	-	-	-
19	CLA	A	839	X	-	-	-
19	CLA	A	840	X	-	-	-
19	CLA	A	841	X	-	-	-
19	CLA	A	842	X	-	-	-
19	CLA	A	854	X	-	-	-
19	CLA	A	855	X	-	-	-
19	CLA	B	803	X	-	-	-
19	CLA	B	804	X	-	-	-
19	CLA	B	805	X	-	-	-
19	CLA	B	806	X	-	-	-
19	CLA	B	807	X	-	-	-
19	CLA	B	808	X	-	-	-
19	CLA	B	809	X	-	-	-
19	CLA	B	810	X	-	-	-
19	CLA	B	811	X	-	-	-
19	CLA	B	812	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
19	CLA	B	813	X	-	-	-
19	CLA	B	814	X	-	-	-
19	CLA	B	815	X	-	-	-
19	CLA	B	816	X	-	-	-
19	CLA	B	817	X	-	-	-
19	CLA	B	818	X	-	-	-
19	CLA	B	819	X	-	-	-
19	CLA	B	820	X	-	-	-
19	CLA	B	821	X	-	-	-
19	CLA	B	822	X	-	-	-
19	CLA	B	823	X	-	-	-
19	CLA	B	824	X	-	-	-
19	CLA	B	825	X	-	-	-
19	CLA	B	826	X	-	-	-
19	CLA	B	827	X	-	-	-
19	CLA	B	828	X	-	-	-
19	CLA	B	829	X	-	-	-
19	CLA	B	830	X	-	-	-
19	CLA	B	831	X	-	-	-
19	CLA	B	832	X	-	-	-
19	CLA	B	833	X	-	-	-
19	CLA	B	834	X	-	-	-
19	CLA	B	835	X	-	-	-
19	CLA	B	836	X	-	-	-
19	CLA	B	837	X	-	-	-
19	CLA	B	838	X	-	-	-
19	CLA	B	839	X	-	-	-
19	CLA	B	840	X	-	-	-
19	CLA	F	302	X	-	-	-
19	CLA	F	303	X	-	-	-
19	CLA	G	201	X	-	-	-
19	CLA	G	202	X	-	-	-
19	CLA	G	203	X	-	-	-
19	CLA	G	204	X	-	-	-
19	CLA	H	1000	X	-	-	-
19	CLA	J	1101	X	-	-	-
19	CLA	J	1102	X	-	-	-
19	CLA	J	1105	X	-	-	-
19	CLA	K	1001	X	-	-	-
19	CLA	K	1002	X	-	-	X
19	CLA	K	1003	X	-	-	-
19	CLA	K	1004	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
19	CLA	L	301	X	-	-	-
19	CLA	L	303	X	-	-	-
19	CLA	L	304	X	-	-	-
19	CLA	L	305	X	-	-	-
20	CHL	1	512	X	-	-	-
20	CHL	1	514	X	-	-	-
20	CHL	1	521	X	-	-	-
20	CHL	2	512	X	-	-	-
20	CHL	2	513	X	-	-	-
20	CHL	2	515	X	-	-	-
20	CHL	2	516	X	-	-	-
20	CHL	2	526	X	-	-	-
20	CHL	3	314	X	-	-	-
20	CHL	4	313	X	-	-	-
20	CHL	4	314	X	-	-	-
20	CHL	4	316	X	-	-	-
20	CHL	4	317	X	-	-	-
21	LHG	B	843	-	-	-	X
22	LMG	A	847	-	-	-	X
22	LMG	G	206	-	-	-	X
23	XAT	4	303	X	-	-	-
24	LMT	4	320	-	-	-	X
27	CL0	A	801	X	-	-	-
28	SF4	C	102	-	-	X	-

2 Entry composition [i](#)

There are 31 unique types of molecules in this entry. The entry contains 37583 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Lhca1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	1	193	1508	982	252	269	5	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	2	208	1620	1059	265	292	4	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	3	221	1699	1114	277	303	5	0	0	0

- Molecule 4 is a protein called Chlorophyll a-b binding protein P4, chloroplastic.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	4	198	1559	1022	253	281	3	0	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
4	89	LYS	ARG	conflict	UNP Q9SQL2
4	128	ASP	ALA	conflict	UNP Q9SQL2
4	149	PHE	SER	conflict	UNP Q9SQL2

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	A	743	5858	3839	998	1003	18	0	0	0

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	117	ARG	GLY	conflict	UNP P05310
A	176	ALA	GLY	conflict	UNP P05310
A	194	VAL	ALA	conflict	UNP P05310
A	220	GLY	ARG	conflict	UNP P05310
A	371	ILE	VAL	conflict	UNP P05310
A	374	HIS	GLN	conflict	UNP P05310
A	378	ALA	SER	conflict	UNP P05310
A	390	GLY	ALA	conflict	UNP P05310
A	509	THR	ALA	conflict	UNP P05310
A	522	SER	ALA	conflict	UNP P05310
A	525	GLY	ASN	conflict	UNP P05310
A	608	ALA	SER	conflict	UNP P05310
A	627	SER	THR	conflict	UNP P05310
A	639	GLY	ALA	conflict	UNP P05310

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
6	B	733	5857	3848	998	997	14	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
7	C	80	612	379	107	115	11	0	0	0

- Molecule 8 is a protein called PsaD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
8	D	143	1132	731	194	204	3	0	0	0

- Molecule 9 is a protein called Putative uncharacterized protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
9	E	66	528	336	93	99	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	64	PRO	-	expression tag	UNP E1C9K6
E	65	PRO	-	expression tag	UNP E1C9K6
E	79	GLN	LYS	conflict	UNP E1C9K6
E	125	VAL	ILE	conflict	UNP E1C9K6
E	126	GLU	VAL	conflict	UNP E1C9K6
E	129	LYS	GLU	conflict	UNP E1C9K6

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	F	154	1213	786	210	215	2	0	0	0

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	80	ALA	SER	conflict	UNP A0A0M3KL12
F	87	ASP	GLU	conflict	UNP A0A0M3KL12
F	108	LEU	ILE	conflict	UNP A0A0M3KL12
F	111	PRO	ALA	conflict	UNP A0A0M3KL12
F	134	GLY	ALA	conflict	UNP A0A0M3KL12
F	188	ASP	GLU	conflict	UNP A0A0M3KL12
F	204	THR	SER	conflict	UNP A0A0M3KL12

- Molecule 11 is a protein called PsaG.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
11	G	97	757	492	125	140	0	0	0

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
12	H	88	673	442	106	125	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	60	LEU	ILE	conflict	UNP A0A0M3KL10
H	79	ASN	SER	conflict	UNP A0A0M3KL10
H	80	SER	PRO	conflict	UNP A0A0M3KL10
H	116	ALA	THR	conflict	UNP A0A0M3KL10
H	126	LYS	VAL	conflict	UNP A0A0M3KL10
H	134	GLN	LYS	conflict	UNP A0A0M3KL10
H	139	LEU	-	expression tag	UNP A0A0M3KL10
H	140	GLY	-	expression tag	UNP A0A0M3KL10

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	I	30	232	159	37	35	1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
14	J	42	338	231	51	55	1	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
J	32	PHE	LEU	conflict	UNP D5MAL3

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
15	K	77	515	326	86	100	3	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K	85	ALA	VAL	conflict	UNP E1C9L3

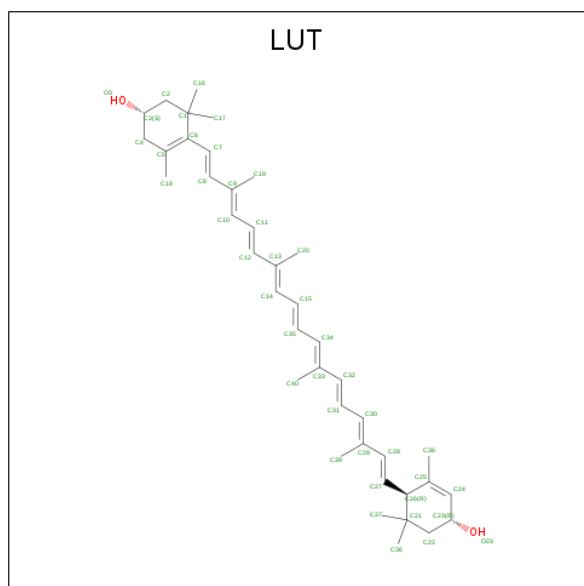
- Molecule 16 is a protein called Putative uncharacterized protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	L	157	Total	C	N	O	S	0	0	0
			1174	772	189	212	1			

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	57	VAL	ILE	conflict	UNP E1C9L1
L	79	VAL	ILE	conflict	UNP E1C9L1
L	88	GLY	ALA	conflict	UNP E1C9L1
L	94	ASN	SER	conflict	UNP E1C9L1
L	108	PHE	TYR	conflict	UNP E1C9L1
L	143	ILE	LEU	conflict	UNP E1C9L1
L	157	ASP	ALA	conflict	UNP E1C9L1
L	172	GLN	GLU	conflict	UNP E1C9L1
L	201	PHE	TYR	conflict	UNP E1C9L1

- Molecule 17 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (three-letter code: LUT) (formula: C₄₀H₅₆O₂).



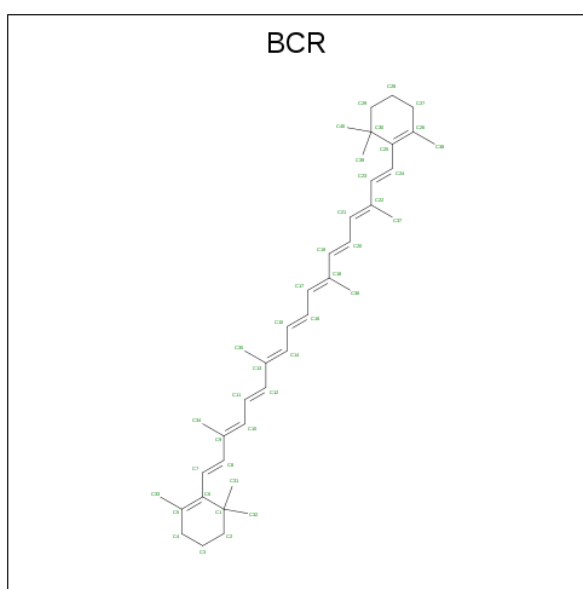
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
17	1	1	Total	C	O	0	0
			42	40	2		
17	1	1	Total	C	O	0	0
			42	40	2		
17	2	1	Total	C	O	0	0
			42	40	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
17	3	1	Total	C	O	0	0
			42	40	2		
17	3	1	Total	C	O	0	0
			42	40	2		
17	4	1	Total	C	O	0	0
			42	40	2		
17	J	1	Total	C	O	0	0
			42	40	2		

- Molecule 18 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



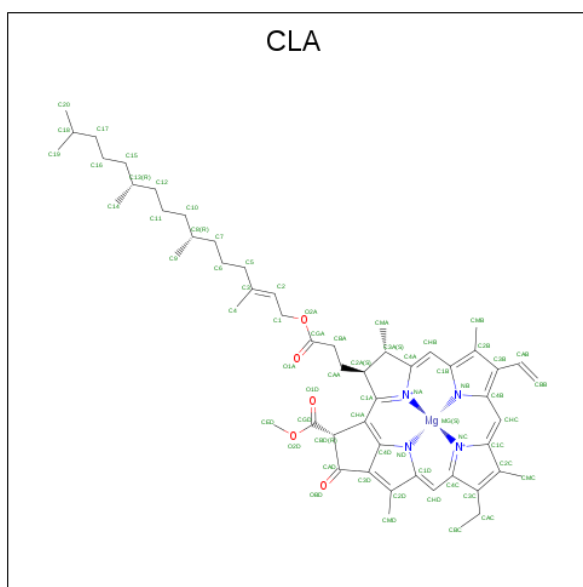
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
18	1	1	Total	C	0	0
			19	19		
18	2	1	Total	C	0	0
			40	40		
18	3	1	Total	C	0	0
			40	40		
18	3	1	Total	C	0	0
			40	40		
18	4	1	Total	C	0	0
			40	40		
18	A	1	Total	C	0	0
			40	40		
18	A	1	Total	C	0	0
			40	40		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
18	A	1	Total C 40 40	0	0
18	A	1	Total C 40 40	0	0
18	A	1	Total C 40 40	0	0
18	A	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	B	1	Total C 40 40	0	0
18	F	1	Total C 40 40	0	0
18	G	1	Total C 40 40	0	0
18	I	1	Total C 40 40	0	0
18	I	1	Total C 40 40	0	0
18	J	1	Total C 40 40	0	0
18	K	1	Total C 40 40	0	0
18	L	1	Total C 40 40	0	0
18	L	1	Total C 40 40	0	0
18	L	1	Total C 40 40	0	0

- Molecule 19 is CHLOROPHYLL A (three-letter code: CLA) (formula: C₅₅H₇₂MgN₄O₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
19	1	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			46	36	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			46	36	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			46	36	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			45	35	1	4	5		
19	1	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	2	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	2	1	Total	C	Mg	N	O	0	0
			52	42	1	4	5		
19	2	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
19	2	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	2	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	2	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	2	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	2	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	2	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			52	42	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			41	33	1	4	3		
19	3	1	Total	C	Mg	N	O	0	0
			48	38	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			46	36	1	4	5		
19	3	1	Total	C	Mg	N	O	0	0
			46	36	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
19	4	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			46	36	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	4	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
19	A	1	45	35	1	4	5	0	0
19	A	1	46	36	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	56	46	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	50	40	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	60	50	1	4	5	0	0
19	A	1	60	50	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	55	45	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	65	55	1	4	5	0	0
19	A	1	55	45	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
19	A	1	51	41	1	4	5	0	0
19	A	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	A	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	A	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	A	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	A	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	A	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			60	50	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			46	36	1	4	5	0	0
19	B	1	Total	C	Mg	N	O		
			65	55	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
19	B	1	65	55	1	4	5	0	0
19	B	1	55	45	1	4	5	0	0
19	B	1	60	50	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	46	36	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	55	45	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	65	55	1	4	5	0	0
19	B	1	60	50	1	4	5	0	0
19	B	1	58	48	1	4	5	0	0
19	B	1	60	50	1	4	5	0	0
19	B	1	55	45	1	4	5	0	0
19	B	1	55	45	1	4	5	0	0

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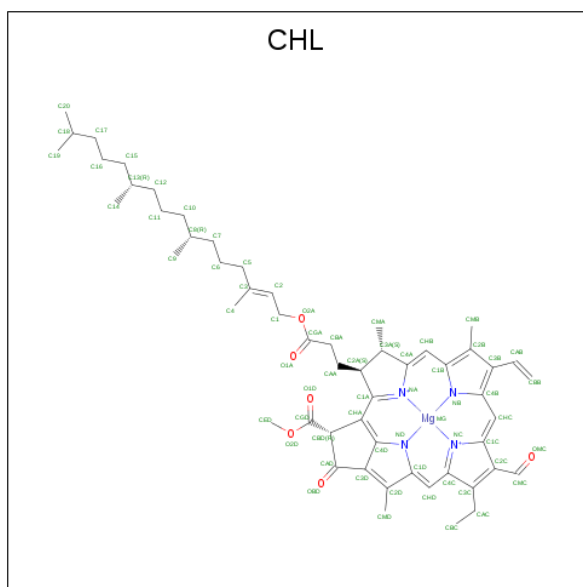
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
19	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	B	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	F	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	F	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	G	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	G	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	G	1	Total	C	Mg	N	O	0	0
			46	36	1	4	5		
19	G	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	H	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	J	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
19	J	1	Total	C	Mg	N	O	0	0
			45	35	1	4	5		
19	J	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		
19	K	1	Total	C	Mg	N	O	0	0
			45	35	1	4	5		
19	K	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	K	1	Total	C	Mg	N		0	0
			27	22	1	4			
19	K	1	Total	C	Mg	N		0	0
			27	22	1	4			
19	L	1	Total	C	Mg	N	O	0	0
			55	45	1	4	5		
19	L	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
19	L	1	Total	C	Mg	N	O	0	0
			60	50	1	4	5		
19	L	1	Total	C	Mg	N	O	0	0
			50	40	1	4	5		

- Molecule 20 is CHLOROPHYLL B (three-letter code: CHL) (formula: $C_{55}H_{70}MgN_4O_6$).



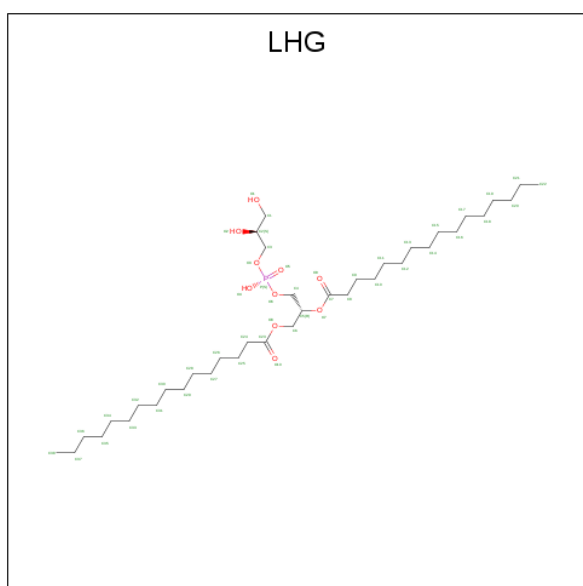
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
20	1	1	Total	C	Mg	N	O	0	0
			47	36	1	4	6		
20	1	1	Total	C	Mg	N	O	0	0
			61	50	1	4	6		
20	1	1	Total	C	Mg	N	O	0	0
			56	45	1	4	6		
20	2	1	Total	C	Mg	N	O	0	0
			47	36	1	4	6		
20	2	1	Total	C	Mg	N	O	0	0
			48	37	1	4	6		
20	2	1	Total	C	Mg	N	O	0	0
			46	35	1	4	6		
20	2	1	Total	C	Mg	N	O	0	0
			56	45	1	4	6		
20	2	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		
20	3	1	Total	C	Mg	N	O	0	0
			47	36	1	4	6		

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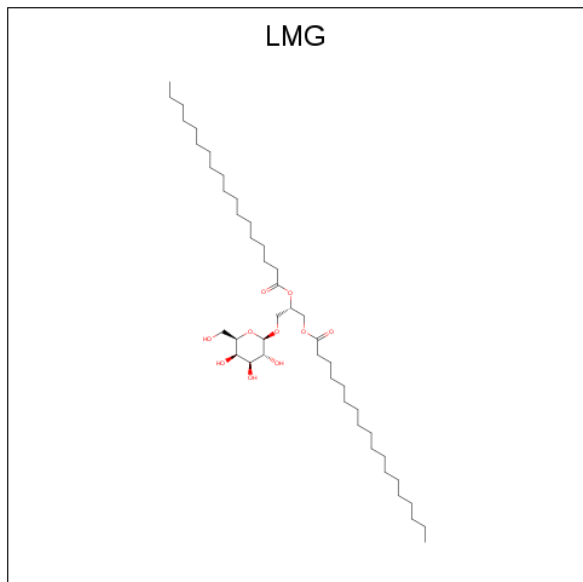
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
20	4	1	Total 47	C 36	Mg 1	N 4	O 6	0	0
20	4	1	Total 51	C 40	Mg 1	N 4	O 6	0	0
20	4	1	Total 61	C 50	Mg 1	N 4	O 6	0	0
20	4	1	Total 43	C 34	Mg 1	N 4	O 4	0	0

- Molecule 21 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	P		
21	1	1	Total 49	C 38	O 10	P 1	0	0
21	1	1	Total 42	C 31	O 10	P 1	0	0
21	2	1	Total 35	C 24	O 10	P 1	0	0
21	A	1	Total 40	C 29	O 10	P 1	0	0
21	A	1	Total 49	C 38	O 10	P 1	0	0
21	B	1	Total 21	C 10	O 10	P 1	0	0
21	B	1	Total 49	C 38	O 10	P 1	0	0

- Molecule 22 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C₄₅H₈₆O₁₀).



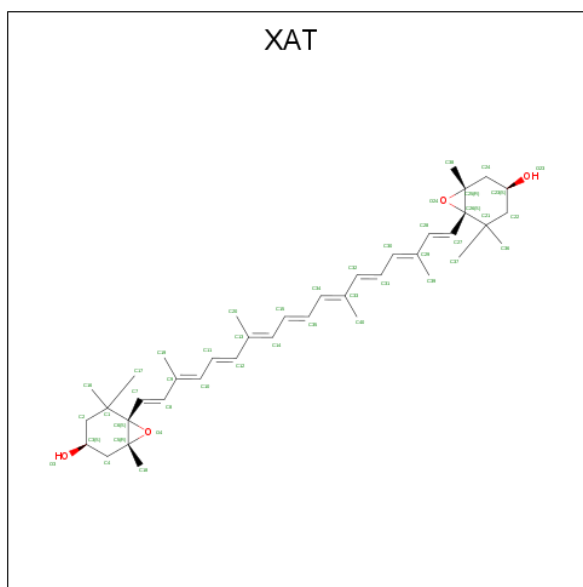
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
22	1	1	Total	C	O	0	0
			46	36	10		
22	1	1	Total	C	O	0	0
			13	7	6		
22	2	1	Total	C	O	0	0
			25	15	10		
22	2	1	Total	C	O	0	0
			36	26	10		
22	2	1	Total	C	O	0	0
			13	7	6		
22	2	1	Total	C	O	0	0
			13	7	6		
22	2	1	Total	C	O	0	0
			13	7	6		
22	2	1	Total	C	O	0	0
			13	7	6		
22	2	1	Total	C	O	0	0
			13	7	6		
22	4	1	Total	C	O	0	0
			13	7	6		
22	4	1	Total	C	O	0	0
			45	35	10		
22	A	1	Total	C	O	0	0
			50	40	10		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
22	B	1	Total	C	O	0	0
			35	25	10		
22	B	1	Total	C	O	0	0
			33	23	10		
22	F	1	Total	C	O	0	0
			47	37	10		
22	F	1	Total	C	O	0	0
			36	26	10		
22	G	1	Total	C	O	0	0
			50	40	10		
22	G	1	Total	C	O	0	0
			25	15	10		
22	J	1	Total	C	O	0	0
			30	20	10		
22	J	1	Total	C	O	0	0
			34	24	10		

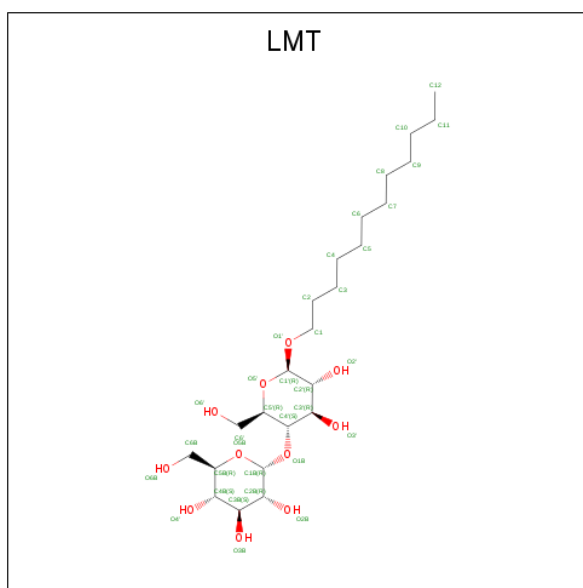
- Molecule 23 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'- TETRAHYDRO-BETA ,BETA-CAROTENE-3,3'-DIOL (three-letter code: XAT) (formula: C₄₀H₅₆O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
23	2	1	Total	C	O	0	0
			44	40	4		
23	4	1	Total	C	O	0	0
			44	40	4		

- Molecule 24 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula:

C₂₄H₄₆O₁₁).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
24	2	1	Total C O 35 24 11	0	0
24	3	1	Total C O 31 20 11	0	0
24	4	1	Total C O 35 24 11	0	0
24	A	1	Total C O 35 24 11	0	0
24	B	1	Total C O 35 24 11	0	0
24	B	1	Total C O 32 21 11	0	0
24	B	1	Total C O 31 20 11	0	0
24	G	1	Total C O 35 24 11	0	0
24	G	1	Total C O 31 20 11	0	0
24	J	1	Total C O 25 14 11	0	0

- Molecule 25 is CALCIUM ION (three-letter code: CA) (formula: Ca).

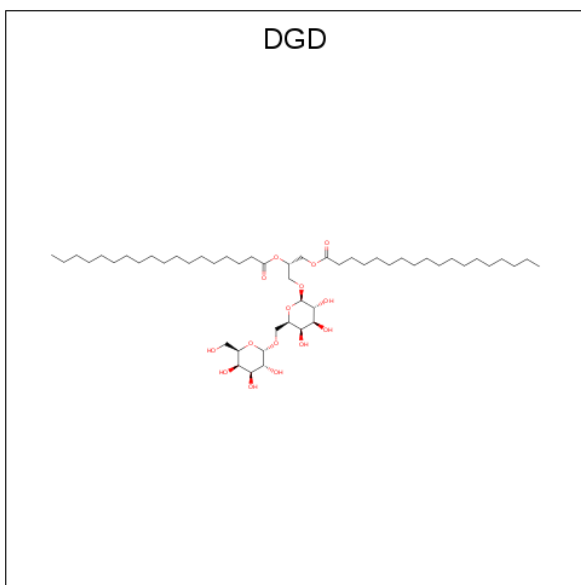
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
25	B	1	Total Ca 1 1	0	0

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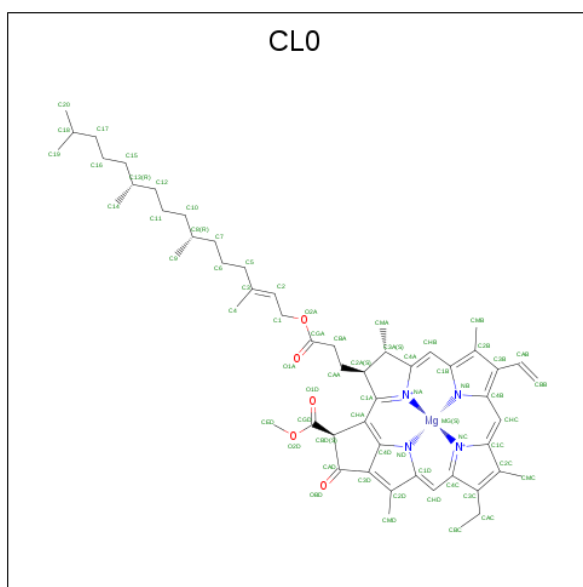
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
25	3	1	Total	Ca	0	0
			1	1		

- Molecule 26 is DIGALACTOSYL DIACYL GLYCEROL (DGD) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).



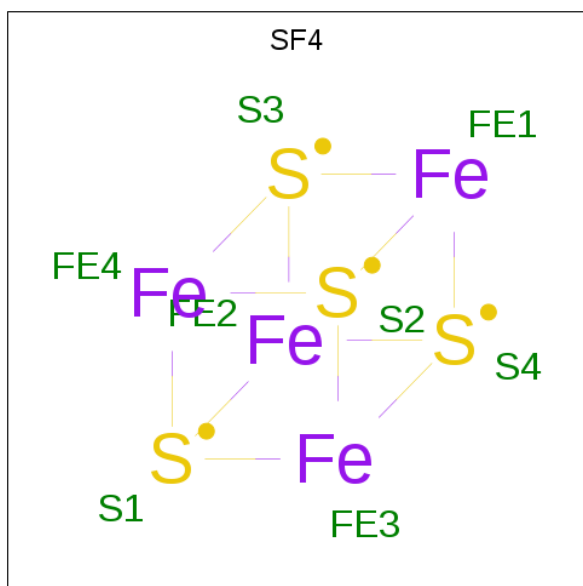
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
26	4	1	Total	C	O	0	0
			51	36	15		
26	B	1	Total	C	O	0	0
			41	26	15		
26	B	1	Total	C	O	0	0
			61	46	15		
26	G	1	Total	C	O	0	0
			47	32	15		
26	J	1	Total	C	O	0	0
			58	43	15		

- Molecule 27 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula: $C_{55}H_{72}MgN_4O_5$).



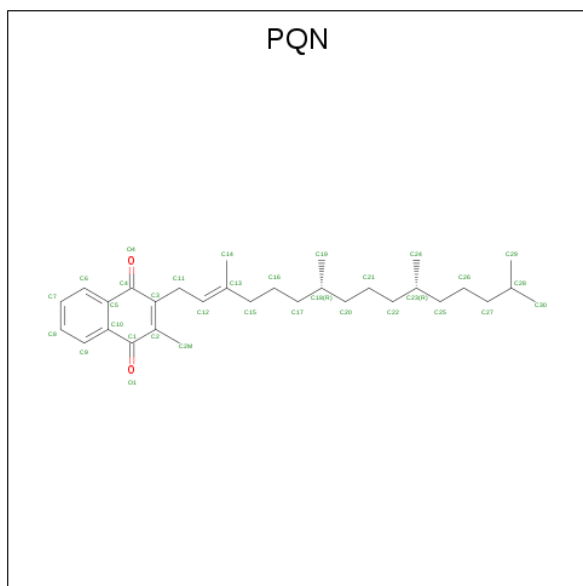
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	Mg	N			O
27	A	1	65	55	1	4	5	0	0

- Molecule 28 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



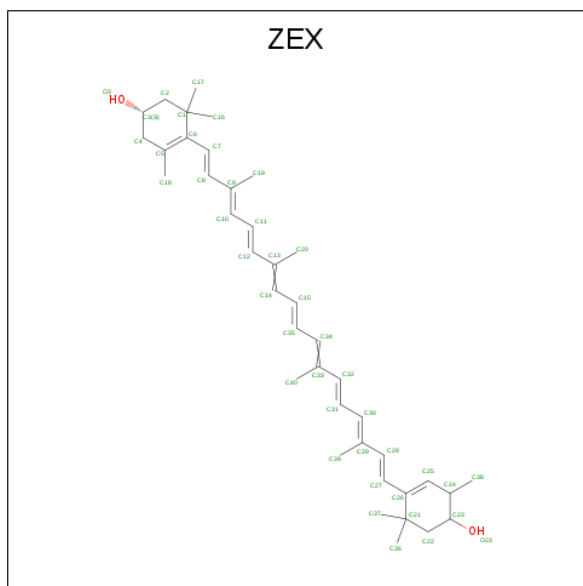
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	Fe	S		
28	A	1	8	4	4	0	0
28	C	1	8	4	4	0	0
28	C	1	8	4	4	0	0

- Molecule 29 is PHYLLOQUINONE (three-letter code: PQN) (formula: C₃₁H₄₆O₂).



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

- Molecule 30 is (1R,2S)-4-{(1E,3E,5E,7E,9E,11E,13E,15E,17E)-18-[(4S)-4-hydroxy-2,6,6-trimethylcyclohex-1-en-1-yl]-3,7,12,16-tetramethyloctadeca-1,3,5,7,9,11,13,15,17-nonaen-1-yl}-2,5,5-trimethylcyclohex-3-en-1-ol (three-letter code: ZEX) (formula: C₄₀H₅₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
30	F	1	Total	C	O	0	0
			42	40	2		

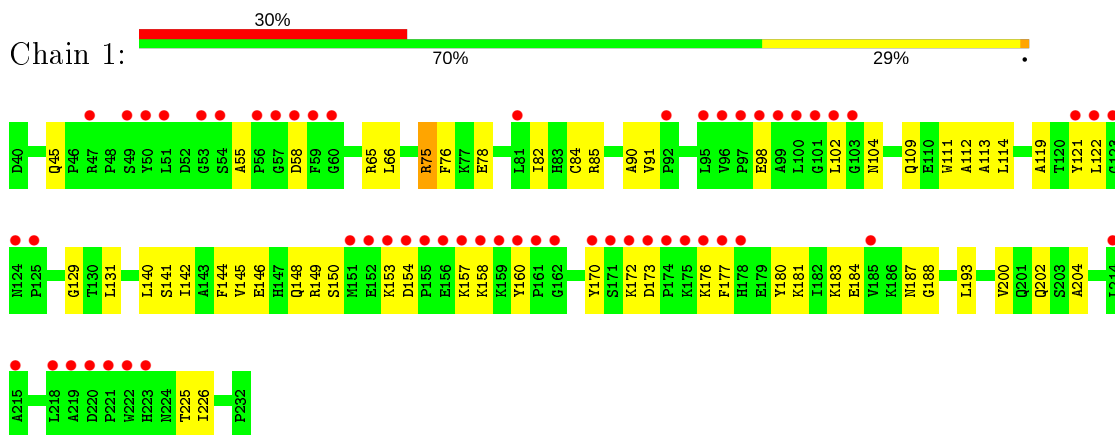
- Molecule 31 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
31	2	7	Total	O	0	0
			7	7		
31	3	3	Total	O	0	0
			3	3		
31	4	13	Total	O	0	0
			13	13		
31	A	49	Total	O	0	0
			49	49		
31	B	73	Total	O	0	0
			73	73		
31	C	19	Total	O	0	0
			19	19		
31	D	14	Total	O	0	0
			14	14		
31	E	10	Total	O	0	0
			10	10		
31	F	9	Total	O	0	0
			9	9		
31	G	3	Total	O	0	0
			3	3		
31	H	1	Total	O	0	0
			1	1		
31	J	4	Total	O	0	0
			4	4		
31	L	4	Total	O	0	0
			4	4		

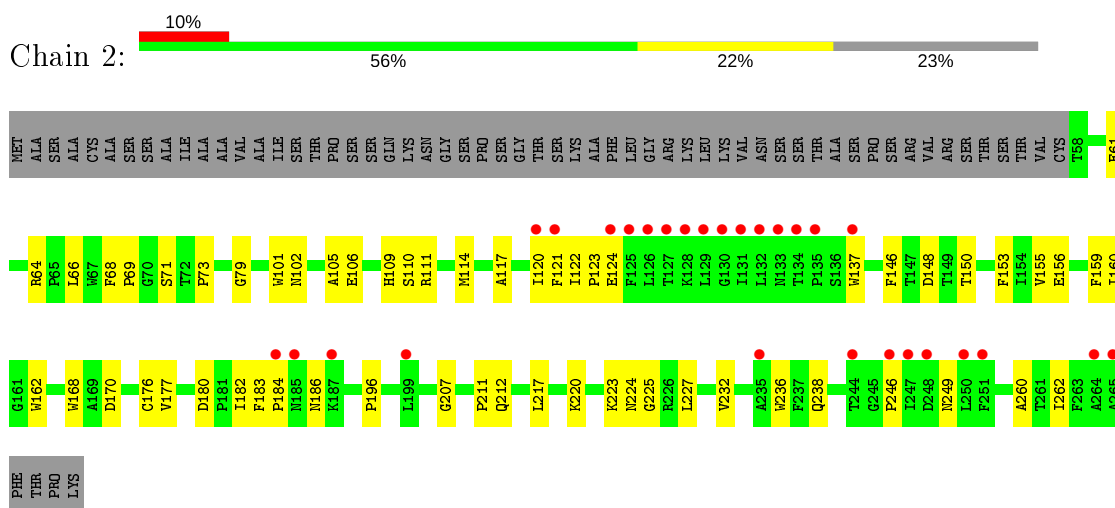
3 Residue-property plots [i](#)

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

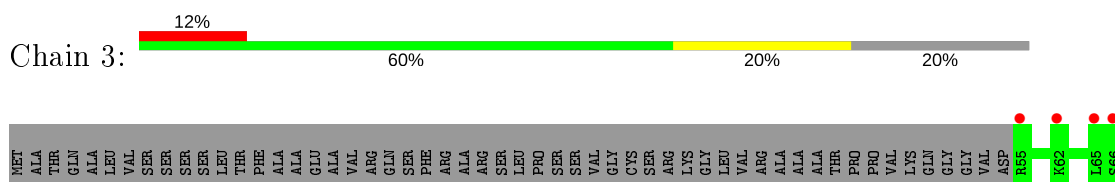
- Molecule 1: Lhca1

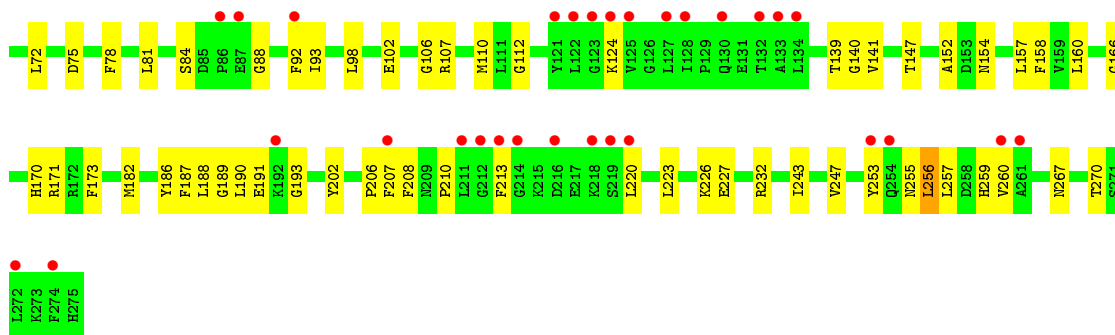


- Molecule 2: Chlorophyll a-b binding protein, chloroplastic

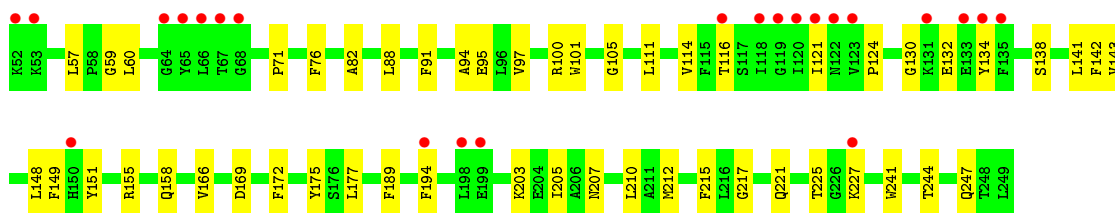
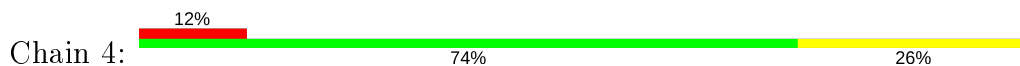


- Molecule 3: Chlorophyll a-b binding protein 3, chloroplastic

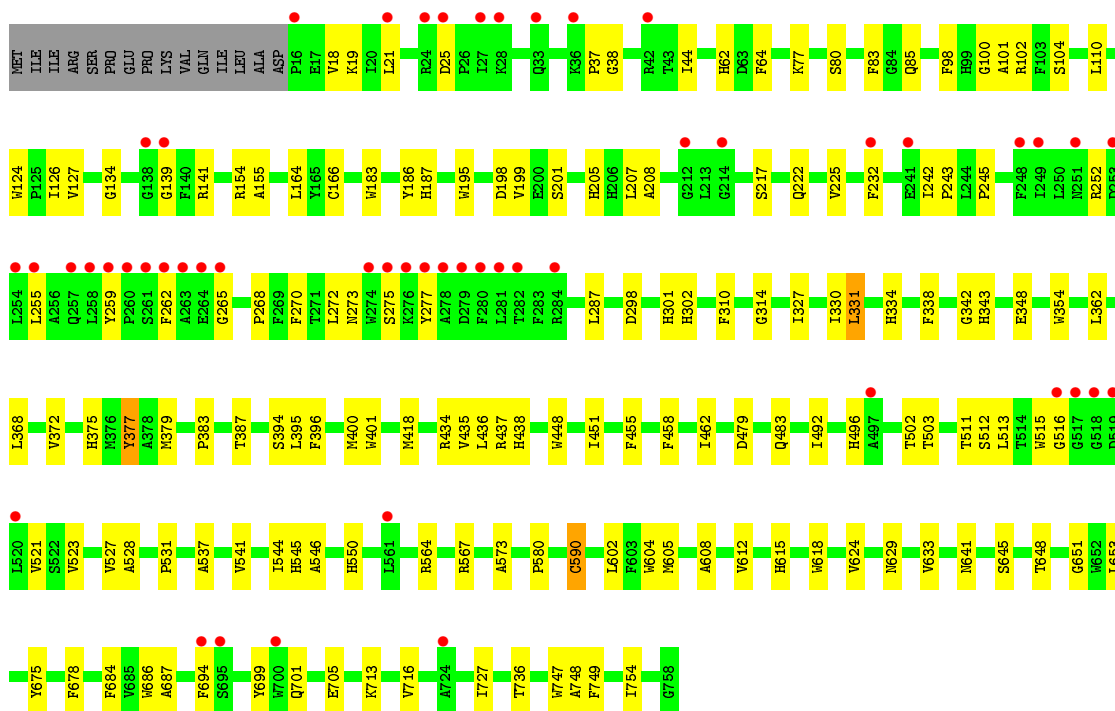
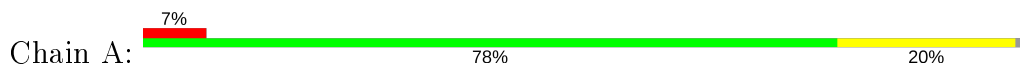




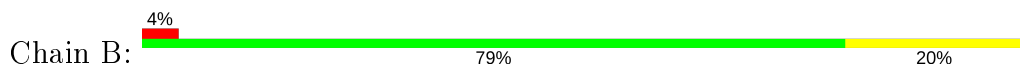
• Molecule 4: Chlorophyll a-b binding protein P4, chloroplastic

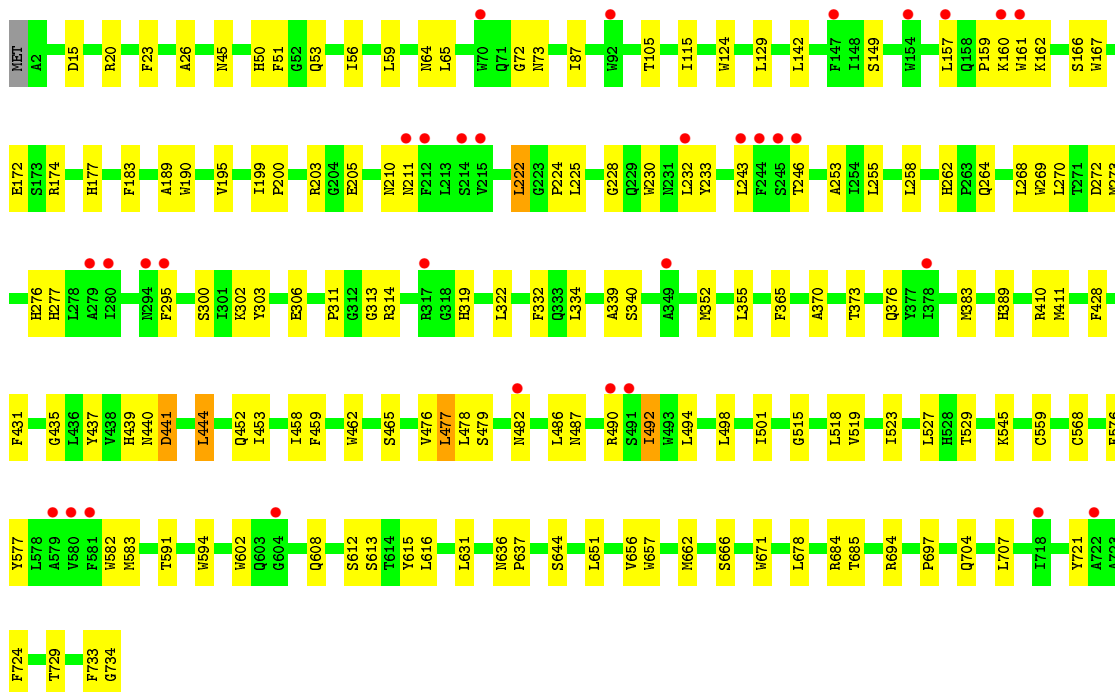


• Molecule 5: Photosystem I P700 chlorophyll a apoprotein A1

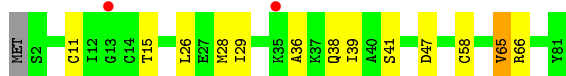
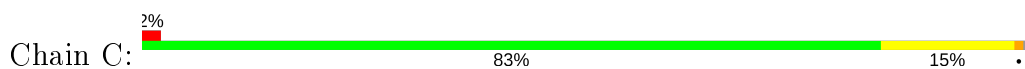


• Molecule 6: Photosystem I P700 chlorophyll a apoprotein A2

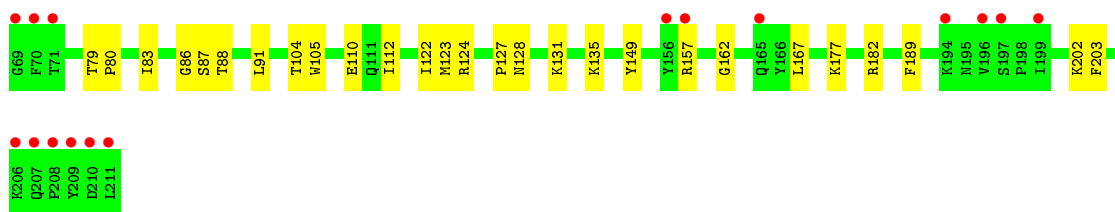
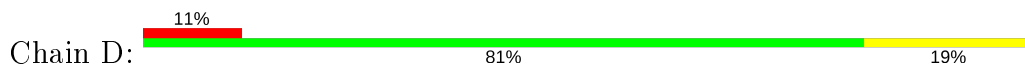




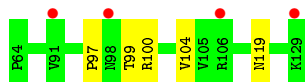
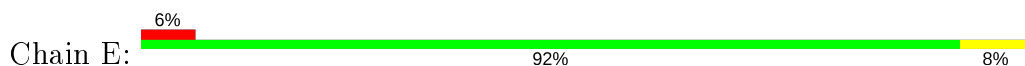
• Molecule 7: Photosystem I iron-sulfur center



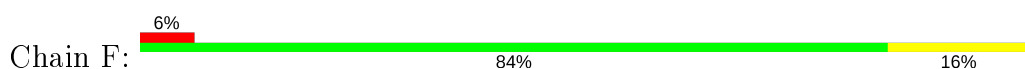
• Molecule 8: PsaD

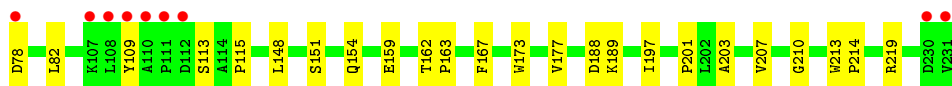


• Molecule 9: Putative uncharacterized protein

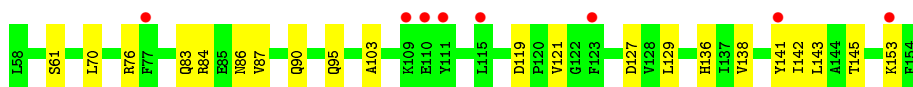
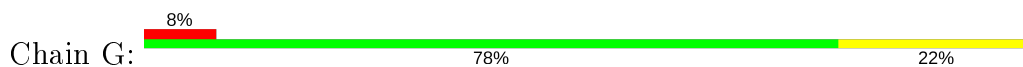


• Molecule 10: Photosystem I reaction center subunit III

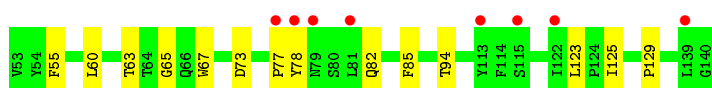
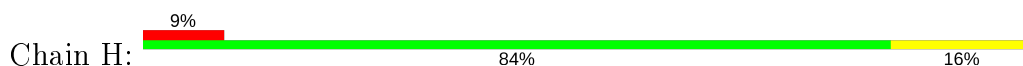




- Molecule 11: PsaG



- Molecule 12: Photosystem I reaction center subunit VI



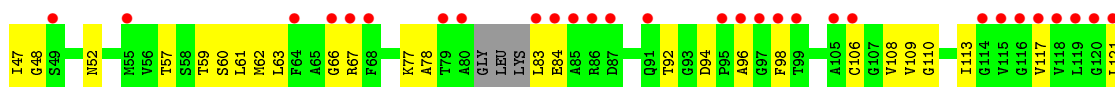
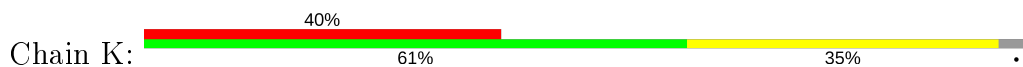
- Molecule 13: Photosystem I reaction center subunit VIII



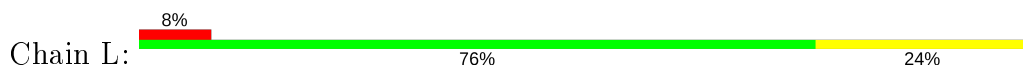
- Molecule 14: Photosystem I reaction center subunit IX



- Molecule 15: Photosystem I reaction center subunit X psaK



- Molecule 16: Putative uncharacterized protein





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	189.61Å 200.99Å 212.94Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.91 – 2.60 49.66 – 2.60	Depositor EDS
% Data completeness (in resolution range)	99.7 (39.91-2.60) 93.4 (49.66-2.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.54 (at 2.61Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.210 , 0.232 0.212 , 0.235	Depositor DCC
R_{free} test set	4925 reflections (1.98%)	wwPDB-VP
Wilson B-factor (Å ²)	60.7	Xtrriage
Anisotropy	0.292	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 69.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	37583	wwPDB-VP
Average B, all atoms (Å ²)	100.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.75% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	1	0.27	0/1558	0.40	0/2125
2	2	0.28	0/1679	0.44	0/2302
3	3	0.28	0/1753	0.43	0/2382
4	4	0.30	0/1608	0.41	0/2191
5	A	0.28	0/6057	0.44	0/8264
6	B	0.28	0/6069	0.44	0/8286
7	C	0.32	0/625	0.51	0/846
8	D	0.29	0/1163	0.48	0/1572
9	E	0.26	0/540	0.45	0/734
10	F	0.28	0/1241	0.43	0/1679
11	G	0.26	0/776	0.42	0/1054
12	H	0.27	0/693	0.44	0/942
13	I	0.27	0/238	0.41	0/324
14	J	0.39	0/349	0.48	0/476
15	K	0.25	0/520	0.45	0/707
16	L	0.27	0/1207	0.45	0/1651
All	All	0.28	0/26076	0.44	0/35535

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	1508	0	1489	60	0
2	2	1620	0	1557	55	0
3	3	1699	0	1648	62	0
4	4	1559	0	1527	49	0
5	A	5858	0	5719	148	0
6	B	5857	0	5653	140	0
7	C	612	0	592	8	0
8	D	1132	0	1141	19	0
9	E	528	0	528	3	0
10	F	1213	0	1241	19	0
11	G	757	0	743	20	0
12	H	673	0	667	13	0
13	I	232	0	253	2	0
14	J	338	0	345	16	0
15	K	515	0	513	26	0
16	L	1174	0	1183	35	0
17	1	84	0	110	12	0
17	2	42	0	55	8	0
17	3	84	0	110	19	0
17	4	42	0	55	3	0
17	J	42	0	55	8	0
18	1	19	0	24	4	0
18	2	40	0	55	13	0
18	3	80	0	109	11	0
18	4	40	0	55	9	0
18	A	240	0	329	21	0
18	B	280	0	384	28	0
18	F	40	0	55	1	0
18	G	40	0	55	3	0
18	I	80	0	110	12	0
18	J	40	0	55	4	0
18	K	40	0	55	7	0
18	L	120	0	165	8	0
19	1	608	0	563	58	0
19	2	512	0	479	38	0
19	3	623	0	526	63	0
19	4	631	0	599	61	0
19	A	2653	0	2772	246	0
19	B	2350	0	2461	202	0
19	F	130	0	144	12	0
19	G	231	0	225	24	0
19	H	60	0	59	4	0
19	J	160	0	143	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	K	159	0	96	13	0
19	L	215	0	185	11	0
20	1	164	0	134	24	0
20	2	263	0	210	31	0
20	3	47	0	30	9	0
20	4	202	0	150	21	0
21	1	91	0	131	17	0
21	2	35	0	40	9	0
21	A	89	0	127	10	0
21	B	70	0	86	8	0
22	1	59	0	76	3	0
22	2	126	0	117	9	0
22	4	58	0	71	4	0
22	A	50	0	73	3	0
22	B	68	0	76	6	0
22	F	83	0	109	10	0
22	G	75	0	90	6	0
22	J	64	0	68	3	0
23	2	44	0	56	4	0
23	4	44	0	56	10	0
24	2	35	0	46	0	0
24	3	31	0	34	1	0
24	4	35	0	45	3	0
24	A	35	0	46	3	0
24	B	98	0	114	9	0
24	G	66	0	80	5	0
24	J	25	0	23	1	0
25	3	1	0	0	0	0
25	B	1	0	0	0	0
26	4	51	0	60	6	0
26	B	102	0	123	14	0
26	G	47	0	52	1	0
26	J	58	0	77	6	0
27	A	65	0	72	8	0
28	A	8	0	0	1	0
28	C	16	0	0	2	0
29	A	33	0	46	4	0
29	B	33	0	46	8	0
30	F	42	0	56	6	0
31	2	7	0	0	0	0
31	3	3	0	0	0	0
31	4	13	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	A	49	0	0	1	0
31	B	73	0	0	2	0
31	C	19	0	0	0	0
31	D	14	0	0	0	0
31	E	10	0	0	0	0
31	F	9	0	0	2	0
31	G	3	0	0	1	0
31	H	1	0	0	0	0
31	J	4	0	0	0	0
31	L	4	0	0	1	0
All	All	37583	0	37507	1261	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 17.

All (1261) 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)
17:4:302:LUT:H373	19:4:304:CLA:H11	1.35	1.07
19:A:832:CLA:HBB1	19:A:833:CLA:H2	1.48	0.95
17:3:301:LUT:H32	19:3:305:CLA:HBB1	1.45	0.94
19:B:823:CLA:HAB	19:B:830:CLA:HMD2	1.50	0.93
18:2:503:BCR:H17C	20:2:513:CHL:HMB3	1.55	0.88
19:J:1105:CLA:HHC	19:J:1105:CLA:HBB1	1.55	0.86
19:B:823:CLA:HMA1	19:B:840:CLA:HED2	1.59	0.85
19:A:839:CLA:H111	19:A:839:CLA:HAB	1.58	0.84
5:A:310:PHE:HE1	19:A:821:CLA:HAB	1.42	0.83
5:A:394:SER:HB3	19:A:828:CLA:HMA1	1.60	0.82
5:A:401:TRP:CD1	19:A:828:CLA:HAB	2.16	0.81
6:B:694:ARG:NH1	16:L:151:SER:O	2.14	0.80
1:1:98:GLU:HG2	1:1:104:ASN:HA	1.62	0.79
5:A:270:PHE:HA	19:K:1001:CLA:HAC2	1.63	0.79
19:B:805:CLA:HMA2	21:B:843:LHG:H262	1.66	0.78
19:A:824:CLA:HMA1	19:A:842:CLA:HAB	1.66	0.78
5:A:126:ILE:HB	17:J:1109:LUT:H182	1.66	0.77
3:3:141:VAL:HG21	17:3:302:LUT:H22	1.65	0.77
3:3:208:PHE:HB3	19:3:305:CLA:HMD1	1.66	0.77
4:4:134:TYR:HE1	19:4:309:CLA:HAA2	1.48	0.77
19:3:305:CLA:H71	19:3:306:CLA:HMA1	1.65	0.77
19:A:855:CLA:H141	18:L:302:BCR:H17C	1.67	0.76
18:2:503:BCR:H332	26:4:319:DGD:HB32	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:2:511:CLA:HBA1	3:3:160:LEU:HD13	1.67	0.76
20:2:512:CHL:HBB1	20:2:512:CHL:HMB1	1.66	0.76
19:4:309:CLA:HMA2	20:4:316:CHL:HBC2	1.68	0.76
6:B:613:SER:O	31:B:901:HOH:O	2.04	0.76
20:4:314:CHL:HBB1	20:4:314:CHL:HHC	1.68	0.75
19:G:204:CLA:HMC2	22:G:206:LMG:H361	1.68	0.75
17:3:301:LUT:H28	19:3:305:CLA:H52	1.66	0.75
6:B:410:ARG:HH22	22:B:844:LMG:HC62	1.50	0.75
6:B:477:LEU:HD13	19:B:833:CLA:HMD3	1.68	0.75
3:3:107:ARG:HB3	19:3:305:CLA:HBC3	1.69	0.74
3:3:139:THR:HG23	19:3:310:CLA:HED3	1.69	0.74
19:B:832:CLA:H91	19:J:1102:CLA:HMA1	1.70	0.74
23:4:303:XAT:H183	19:4:309:CLA:C3B	2.18	0.74
19:1:510:CLA:HBB1	19:1:510:CLA:HHC	1.68	0.74
21:1:520:LHG:H101	19:B:822:CLA:H43	1.67	0.74
19:A:805:CLA:H61	18:A:849:BCR:H24C	1.70	0.74
19:A:835:CLA:HMB1	18:A:851:BCR:HC31	1.70	0.73
16:L:145:LEU:HB3	16:L:186:THR:HG22	1.69	0.73
19:4:305:CLA:HBB1	19:4:310:CLA:H143	1.70	0.73
23:4:303:XAT:H32	19:4:307:CLA:HAB	1.72	0.72
16:L:60:ILE:HA	16:L:70:GLU:HG3	1.71	0.72
19:A:811:CLA:HBB1	19:A:811:CLA:HHC	1.70	0.72
20:1:514:CHL:HBA1	21:1:520:LHG:HC92	1.70	0.72
2:2:236:TRP:HZ3	20:2:512:CHL:HHB	1.53	0.72
5:A:255:LEU:O	5:A:259:TYR:N	2.14	0.72
4:4:134:TYR:CE1	19:4:309:CLA:HAA2	2.23	0.72
19:B:804:CLA:H201	19:B:839:CLA:H51	1.71	0.72
21:1:517:LHG:H223	19:4:318:CLA:HMA2	1.72	0.71
18:A:856:BCR:H353	18:K:1005:BCR:H323	1.71	0.71
19:4:307:CLA:HBB1	19:4:307:CLA:HMB1	1.73	0.71
19:B:833:CLA:H61	19:B:834:CLA:H12	1.73	0.71
19:B:805:CLA:HBB1	21:B:843:LHG:H223	1.72	0.71
5:A:590:CYS:HB3	28:A:843:SF4:S2	2.31	0.71
19:A:831:CLA:HMA2	16:L:71:THR:HG21	1.72	0.70
19:F:303:CLA:HAB	22:F:304:LMG:H382	1.71	0.70
17:2:501:LUT:H362	19:2:511:CLA:HBC1	1.74	0.70
20:2:512:CHL:HAA2	20:2:512:CHL:HBD	1.72	0.70
6:B:431:PHE:HZ	18:B:856:BCR:H11C	1.57	0.70
19:B:816:CLA:H2	18:B:851:BCR:HC42	1.72	0.70
4:4:203:LYS:HG3	19:4:310:CLA:HED2	1.74	0.70
12:H:78:TYR:OH	16:L:101:GLU:OE1	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:168:TRP:CE3	19:2:514:CLA:HMA2	2.27	0.70
6:B:224:PRO:HB3	6:B:232:LEU:HD12	1.72	0.70
6:B:166:SER:HA	11:G:95:GLN:HE22	1.56	0.70
1:1:141:SER:HB2	18:1:503:BCR:H363	1.73	0.70
4:4:100:ARG:NH1	20:4:314:CHL:OBD	2.25	0.69
5:A:252:ARG:NH2	5:A:262:PHE:O	2.25	0.69
6:B:487:ASN:HB3	11:G:153:LYS:HB2	1.73	0.69
2:2:120:ILE:HG13	23:2:502:XAT:H163	1.73	0.69
18:3:303:BCR:H351	20:3:314:CHL:HMB1	1.74	0.69
1:1:153:LYS:HD3	1:1:158:LYS:HD2	1.74	0.69
19:1:516:CLA:HBA2	30:F:301:ZEX:H41	1.75	0.69
19:A:802:CLA:HMB1	19:A:802:CLA:HBB1	1.75	0.69
19:4:307:CLA:H71	19:4:308:CLA:HMA1	1.72	0.69
5:A:604:TRP:CH2	19:A:803:CLA:HAB	2.28	0.69
19:J:1102:CLA:HMB1	19:J:1102:CLA:HBB1	1.75	0.69
11:G:61:SER:HB3	19:G:202:CLA:HED2	1.75	0.68
19:2:506:CLA:HMA1	19:2:511:CLA:HBC3	1.73	0.68
19:B:812:CLA:HBD	24:G:208:LMT:H1'	1.75	0.68
19:B:838:CLA:H152	18:I:101:BCR:H11C	1.75	0.68
19:J:1101:CLA:HMB1	19:J:1101:CLA:HBB1	1.75	0.68
1:1:85:ARG:NE	1:1:184:GLU:OE2	2.23	0.68
5:A:362:LEU:HD21	19:A:830:CLA:HAB	1.76	0.68
10:F:78:ASP:N	10:F:82:LEU:O	2.26	0.68
15:K:92:THR:HG22	15:K:94:ASP:H	1.57	0.68
17:3:302:LUT:H32	19:3:308:CLA:HAB	1.76	0.68
14:J:32:PHE:CZ	19:J:1105:CLA:HMA3	2.29	0.68
17:1:501:LUT:H30	19:1:504:CLA:H52	1.74	0.68
17:3:301:LUT:H31	18:3:304:BCR:H363	1.75	0.68
5:A:648:THR:HG23	5:A:651:GLY:H	1.59	0.68
19:B:809:CLA:HAB	19:B:810:CLA:O1A	1.93	0.67
2:2:110:SER:HB3	2:2:225:GLY:HA3	1.75	0.67
2:2:111:ARG:NH1	20:2:513:CHL:OBD	2.26	0.67
5:A:199:VAL:HG11	19:A:825:CLA:HAC2	1.77	0.67
19:B:830:CLA:H191	22:F:304:LMG:H451	1.76	0.67
19:G:203:CLA:HBB1	19:G:203:CLA:HMB1	1.76	0.67
19:1:508:CLA:H2A	19:1:508:CLA:HED2	1.76	0.67
5:A:387:THR:HG21	5:A:523:VAL:HB	1.77	0.67
19:B:813:CLA:HBB1	19:B:813:CLA:HMB1	1.76	0.67
6:B:440:ASN:HB3	6:B:452:GLN:HE21	1.60	0.67
21:1:520:LHG:HC32	19:B:840:CLA:HBC1	1.76	0.67
22:2:524:LMG:HC1	10:F:201:PRO:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B:666:SER:HB3	6:B:671:TRP:HE1	1.60	0.67
19:A:835:CLA:HBB1	19:A:835:CLA:HHC	1.77	0.67
22:4:322:LMG:H352	22:4:322:LMG:H152	1.78	0.66
5:A:678:PHE:HD2	5:A:747:TRP:HZ3	1.44	0.66
19:A:832:CLA:H171	18:I:102:BCR:H11C	1.76	0.66
3:3:190:LEU:HD22	18:3:304:BCR:HC31	1.76	0.66
19:A:804:CLA:HBB1	19:A:811:CLA:H122	1.78	0.66
19:A:807:CLA:HBB1	19:A:807:CLA:HMB1	1.77	0.66
6:B:523:ILE:HG21	19:B:835:CLA:HAB	1.77	0.66
19:3:308:CLA:HBB1	19:3:308:CLA:HMB1	1.78	0.66
19:A:840:CLA:HBB1	19:A:840:CLA:HMB1	1.77	0.66
19:B:831:CLA:HBB1	19:B:831:CLA:HMB1	1.76	0.65
5:A:567:ARG:NH2	8:D:88:THR:O	2.29	0.65
10:F:207:VAL:HB	19:J:1102:CLA:HED2	1.79	0.65
19:4:308:CLA:HBB1	19:4:308:CLA:HMB1	1.79	0.65
24:B:847:LMT:H11	22:F:304:LMG:H301	1.78	0.65
19:A:825:CLA:HMB1	19:A:825:CLA:HBB1	1.76	0.65
19:2:507:CLA:HBB1	19:2:507:CLA:HMB1	1.78	0.65
19:2:510:CLA:HBB1	19:2:510:CLA:HMB1	1.79	0.65
3:3:98:LEU:HD13	19:3:308:CLA:H11	1.78	0.65
20:1:512:CHL:HBB1	20:1:512:CHL:HHC	1.77	0.65
19:A:809:CLA:HBB1	18:J:1108:BCR:HC8	1.77	0.65
19:B:819:CLA:CGA	19:B:819:CLA:H3A	2.26	0.65
19:2:508:CLA:HMB1	19:2:508:CLA:HBB1	1.79	0.65
19:A:806:CLA:H152	19:A:829:CLA:HBB2	1.78	0.65
3:3:107:ARG:NH1	20:3:314:CHL:OBD	2.29	0.64
3:3:187:PHE:CE2	20:3:314:CHL:HBB2	2.33	0.64
19:B:815:CLA:H161	18:B:850:BCR:H363	1.80	0.64
19:A:855:CLA:H202	18:I:102:BCR:H391	1.80	0.64
6:B:458:ILE:HG21	10:F:151:SER:HB3	1.80	0.64
19:F:302:CLA:HBB1	19:F:302:CLA:HMB1	1.78	0.64
5:A:208:ALA:HB2	5:A:314:GLY:HA3	1.80	0.64
19:A:830:CLA:HBB1	19:A:830:CLA:HMB1	1.80	0.64
19:B:807:CLA:H152	19:B:828:CLA:HBB2	1.78	0.63
15:K:59:THR:HA	15:K:110:GLY:HA3	1.79	0.63
19:B:825:CLA:H91	22:F:304:LMG:H422	1.80	0.63
5:A:684:PHE:CG	18:A:852:BCR:H363	2.33	0.63
6:B:26:ALA:HB2	26:B:854:DGD:HA32	1.81	0.63
19:2:504:CLA:H41	19:2:505:CLA:HMA2	1.81	0.63
6:B:51:PHE:CE1	19:B:812:CLA:HBB1	2.33	0.63
19:B:840:CLA:HED1	18:B:852:BCR:H353	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:A:820:CLA:HAB	18:K:1005:BCR:H341	1.81	0.63
19:J:1105:CLA:HBA1	19:J:1105:CLA:CGD	2.29	0.63
2:2:223:LYS:NZ	21:2:517:LHG:O5	2.17	0.63
19:B:833:CLA:H142	19:B:834:CLA:H51	1.79	0.63
2:2:155:VAL:HG22	19:4:311:CLA:HAA2	1.81	0.62
5:A:629:ASN:HB2	5:A:633:VAL:H	1.64	0.62
11:G:70:LEU:HD12	26:G:207:DGD:HB41	1.81	0.62
19:A:841:CLA:H18	19:J:1101:CLA:H193	1.81	0.62
2:2:150:THR:HG23	22:2:519:LMG:HC61	1.81	0.62
19:G:202:CLA:OBD	24:G:209:LMT:O3'	2.18	0.62
16:L:109:LEU:O	31:L:401:HOH:O	2.16	0.62
19:B:823:CLA:HBB1	19:B:830:CLA:H13	1.82	0.62
18:A:852:BCR:H24C	19:B:832:CLA:HMC2	1.80	0.62
19:A:854:CLA:HMB1	19:A:854:CLA:HBB1	1.82	0.62
29:B:841:PQN:H28	18:I:102:BCR:H343	1.81	0.62
19:1:504:CLA:HBB1	19:1:504:CLA:HMB1	1.82	0.61
2:2:220:LYS:O	2:2:224:ASN:ND2	2.28	0.61
3:3:166:GLY:O	3:3:170:HIS:ND1	2.27	0.61
5:A:379:MET:HE3	19:A:827:CLA:HHC	1.82	0.61
5:A:83:PHE:CE1	19:A:810:CLA:HBB1	2.34	0.61
19:B:825:CLA:HAA2	19:B:826:CLA:OBD	2.00	0.61
16:L:85:ASN:HB3	19:L:303:CLA:HAC1	1.80	0.61
19:A:809:CLA:H91	17:J:1109:LUT:H391	1.81	0.61
18:B:849:BCR:H402	19:G:201:CLA:C1D	2.30	0.61
14:J:16:THR:HG21	17:J:1109:LUT:H371	1.82	0.61
1:1:204:ALA:O	26:B:801:DGD:HE3	2.00	0.61
1:1:150:SER:HB2	20:1:514:CHL:HMA1	1.80	0.61
19:A:808:CLA:H171	19:J:1101:CLA:H93	1.83	0.61
6:B:365:PHE:HD2	6:B:734:GLY:HA2	1.65	0.61
19:H:1000:CLA:H121	16:L:81:TRP:HE1	1.64	0.61
4:4:225:THR:HG23	4:4:227:LYS:H	1.64	0.61
19:A:824:CLA:H151	19:A:831:CLA:HMC2	1.82	0.61
20:4:317:CHL:HHC	20:4:317:CHL:HBB1	1.83	0.61
5:A:434:ARG:HH11	19:A:831:CLA:HED2	1.65	0.61
6:B:189:ALA:HA	19:B:816:CLA:HAB	1.81	0.61
19:4:307:CLA:H91	19:4:308:CLA:H142	1.83	0.61
19:A:818:CLA:HMC2	19:A:818:CLA:H101	1.81	0.61
6:B:15:ASP:HB3	6:B:20:ARG:HB2	1.81	0.61
19:B:823:CLA:H52	19:B:824:CLA:H142	1.81	0.61
16:L:116:LYS:HD3	19:L:305:CLA:HMB2	1.82	0.61
19:3:305:CLA:H43	19:3:306:CLA:HBA1	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:92:PHE:HB3	19:3:309:CLA:H11	1.83	0.60
6:B:486:LEU:HD12	6:B:494:LEU:HD13	1.82	0.60
19:B:811:CLA:CAC	18:I:101:BCR:H10C	2.31	0.60
17:1:502:LUT:H361	17:1:502:LUT:H28	1.82	0.60
2:2:162:TRP:HH2	18:2:503:BCR:H321	1.66	0.60
19:3:308:CLA:HMB2	19:3:308:CLA:H43	1.82	0.60
6:B:662:MET:HE2	29:B:841:PQN:H2M3	1.83	0.60
15:K:67:ARG:HH12	15:K:96:ALA:HB3	1.64	0.60
23:2:502:XAT:H203	19:2:508:CLA:HBC3	1.82	0.60
2:2:232:VAL:HG11	23:2:502:XAT:H12	1.84	0.60
21:1:520:LHG:H211	19:G:204:CLA:H203	1.83	0.60
19:3:309:CLA:HED2	19:3:315:CLA:H2	1.82	0.60
20:1:514:CHL:HHC	20:1:514:CHL:HBB1	1.83	0.60
8:D:83:ILE:HB	8:D:122:ILE:HB	1.84	0.60
5:A:458:PHE:HE1	19:A:803:CLA:HMA1	1.66	0.60
19:3:310:CLA:HBA1	19:3:316:CLA:C1D	2.32	0.60
19:B:825:CLA:HBB1	19:B:825:CLA:HMB1	1.84	0.59
15:K:67:ARG:HE	19:K:1004:CLA:C4B	2.14	0.59
19:A:842:CLA:H3A	22:A:847:LMG:H372	1.83	0.59
6:B:431:PHE:CZ	18:B:856:BCR:H11C	2.36	0.59
19:2:509:CLA:HBB1	19:2:509:CLA:HMB1	1.84	0.59
3:3:107:ARG:NE	3:3:227:GLU:OE2	2.32	0.59
19:A:824:CLA:H43	18:A:851:BCR:H351	1.83	0.59
6:B:721:TYR:HB2	19:B:803:CLA:HED2	1.83	0.59
19:A:804:CLA:HMA2	19:A:811:CLA:HMD2	1.84	0.59
19:4:308:CLA:H12	19:4:308:CLA:O1D	2.01	0.59
5:A:102:ARG:NH2	24:A:846:LMT:O6'	2.35	0.59
6:B:370:ALA:HB1	19:B:827:CLA:HMA1	1.84	0.59
19:B:827:CLA:H3A	19:B:827:CLA:CGA	2.32	0.59
19:B:840:CLA:HED3	18:B:852:BCR:H11C	1.84	0.59
20:2:513:CHL:HBB1	20:2:513:CHL:HHC	1.83	0.59
5:A:462:ILE:HG22	19:A:833:CLA:HBC2	1.85	0.59
1:1:119:ALA:H	1:1:129:GLY:HA3	1.67	0.59
6:B:167:TRP:CZ2	19:B:812:CLA:HMA1	2.37	0.59
18:4:301:BCR:H373	20:4:316:CHL:HHB	1.85	0.59
5:A:245:PRO:HG3	19:A:814:CLA:HED2	1.83	0.59
19:G:201:CLA:HHC	19:G:201:CLA:HBB1	1.84	0.59
20:1:521:CHL:H11	4:4:151:TYR:HB2	1.85	0.59
6:B:373:THR:HG23	6:B:591:THR:HG21	1.84	0.59
19:A:824:CLA:HBB1	19:A:831:CLA:HMD2	1.83	0.58
6:B:51:PHE:HE1	19:B:812:CLA:HBB1	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B:174:ARG:HB2	19:B:814:CLA:HBC2	1.85	0.58
17:4:302:LUT:C37	19:4:304:CLA:H51	2.33	0.58
19:A:808:CLA:HMB1	19:A:808:CLA:HBB1	1.85	0.58
19:B:830:CLA:H92	19:B:840:CLA:HMA2	1.85	0.58
11:G:76:ARG:NH1	11:G:119:ASP:OD1	2.37	0.58
20:4:316:CHL:HBB1	20:4:316:CHL:HHC	1.85	0.58
5:A:124:TRP:HE1	24:A:846:LMT:H4'	1.68	0.58
3:3:102:GLU:OE2	3:3:232:ARG:NE	2.26	0.58
3:3:267:ASN:OD1	3:3:270:THR:OG1	2.20	0.58
3:3:220:LEU:HD12	19:3:305:CLA:HMA2	1.85	0.58
18:4:301:BCR:H23C	18:4:301:BCR:H403	1.84	0.58
5:A:37:PRO:HA	19:J:1101:CLA:HBC1	1.86	0.58
4:4:244:THR:HG21	19:4:311:CLA:HED3	1.86	0.58
27:A:801:CL0:H15	27:A:801:CL0:H11	1.85	0.58
19:A:839:CLA:H92	18:B:856:BCR:H16C	1.84	0.58
12:H:55:PHE:HA	12:H:63:THR:HG23	1.85	0.58
27:A:801:CL0:H13	19:A:854:CLA:OBD	2.04	0.58
6:B:465:SER:O	6:B:479:SER:HB2	2.03	0.58
19:B:815:CLA:HMA2	18:B:851:BCR:H393	1.86	0.58
8:D:157:ARG:HB2	8:D:167:LEU:HD11	1.84	0.58
1:1:154:ASP:HB3	1:1:157:LYS:H	1.68	0.58
19:A:806:CLA:HED1	19:A:830:CLA:H2	1.86	0.58
6:B:105:THR:HG21	12:H:129:PRO:HG3	1.85	0.58
20:2:516:CHL:HBB1	20:2:516:CHL:HHC	1.86	0.57
1:1:84:CYS:HB3	1:1:188:GLY:HA3	1.86	0.57
5:A:77:LYS:NZ	19:A:811:CLA:OBD	2.35	0.57
19:B:806:CLA:HHC	19:B:806:CLA:HBB1	1.86	0.57
19:A:827:CLA:HBA1	18:A:851:BCR:H14C	1.87	0.57
6:B:314:ARG:NH1	22:B:844:LMG:O10	2.34	0.57
16:L:95:PRO:HG3	16:L:98:ARG:HH11	1.69	0.57
19:3:315:CLA:HMB1	19:3:315:CLA:HBB1	1.87	0.57
5:A:375:HIS:ND1	19:A:818:CLA:OBD	2.38	0.57
19:A:804:CLA:HBD	19:A:811:CLA:H12	1.86	0.57
17:J:1109:LUT:H28	17:J:1109:LUT:H361	1.86	0.56
19:1:508:CLA:H43	19:1:508:CLA:HED3	1.86	0.56
5:A:372:VAL:HG22	19:A:819:CLA:H42	1.86	0.56
19:B:809:CLA:O1A	19:B:827:CLA:HBD	2.05	0.56
19:B:810:CLA:HBB1	19:B:810:CLA:HMB1	1.87	0.56
5:A:195:TRP:CZ2	19:A:810:CLA:HMA1	2.40	0.56
6:B:59:LEU:HG	19:B:808:CLA:HBB2	1.88	0.56
15:K:117:VAL:HG23	19:K:1002:CLA:HMC3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:201:SER:O	5:A:205:HIS:ND1	2.21	0.56
19:A:855:CLA:H171	16:L:141:LEU:HD11	1.87	0.56
6:B:45:ASN:OD1	21:B:843:LHG:O1	2.23	0.56
17:3:302:LUT:H27	19:3:308:CLA:H101	1.87	0.56
26:B:801:DGD:HG31	26:B:801:DGD:HB32	1.88	0.56
17:1:501:LUT:H32	19:1:504:CLA:CAB	2.36	0.56
5:A:275:SER:OG	15:K:122:LYS:NZ	2.33	0.56
5:A:64:PHE:CD2	19:A:805:CLA:HMC2	2.41	0.56
14:J:16:THR:HG22	19:J:1101:CLA:H8	1.86	0.56
5:A:310:PHE:CE1	19:A:821:CLA:HAB	2.32	0.56
20:2:526:CHL:HMB2	19:3:317:CLA:HED2	1.87	0.55
19:A:824:CLA:H18	18:A:850:BCR:H363	1.87	0.55
19:B:819:CLA:H8	19:B:819:CLA:CAB	2.36	0.55
20:2:515:CHL:HHC	20:2:515:CHL:HBB1	1.88	0.55
18:B:802:BCR:H362	19:B:804:CLA:H122	1.87	0.55
18:B:856:BCR:H362	19:F:302:CLA:O2A	2.06	0.55
20:3:314:CHL:HHC	20:3:314:CHL:HBB1	1.87	0.55
19:B:835:CLA:HMB2	19:B:837:CLA:HED1	1.88	0.55
6:B:365:PHE:CD2	6:B:734:GLY:HA2	2.40	0.55
8:D:112:ILE:O	8:D:149:TYR:OH	2.22	0.55
20:1:521:CHL:HHB	20:1:521:CHL:HBC3	1.89	0.55
3:3:160:LEU:HD21	19:3:316:CLA:HED3	1.88	0.55
19:A:822:CLA:H62	19:A:823:CLA:H12	1.88	0.55
19:A:805:CLA:HHC	19:A:805:CLA:HBB1	1.89	0.55
5:A:496:HIS:HE1	19:A:834:CLA:NA	2.05	0.55
2:2:120:ILE:HG12	2:2:137:TRP:CG	2.42	0.55
5:A:678:PHE:HD2	5:A:747:TRP:CZ3	2.25	0.55
19:G:204:CLA:H193	22:G:206:LMG:H401	1.89	0.55
19:B:812:CLA:HBA2	24:G:208:LMT:H22	1.88	0.55
3:3:152:ALA:HB3	3:3:157:LEU:HG	1.89	0.54
3:3:124:LYS:HG3	3:3:253:TYR:HE2	1.72	0.54
19:3:308:CLA:H92	19:3:309:CLA:HMA1	1.89	0.54
19:A:836:CLA:HBB1	19:A:836:CLA:HMB1	1.87	0.54
19:A:854:CLA:HAB	6:B:582:TRP:CH2	2.42	0.54
19:4:318:CLA:H101	30:F:301:ZEX:H163	1.89	0.54
19:J:1105:CLA:HBC2	19:J:1105:CLA:HMC1	1.89	0.54
1:1:90:ALA:HB1	17:1:502:LUT:H27	1.89	0.54
17:3:301:LUT:H34	19:3:305:CLA:HBB2	1.88	0.54
19:A:805:CLA:H203	19:A:813:CLA:H62	1.89	0.54
19:A:834:CLA:HBA2	19:A:835:CLA:HMB3	1.89	0.54
5:A:85:GLN:HG2	19:A:805:CLA:HMA1	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B:818:CLA:HBA2	19:B:826:CLA:HBB2	1.90	0.54
1:1:66:LEU:HD12	17:1:502:LUT:H41	1.89	0.54
20:4:314:CHL:HBB2	20:4:317:CHL:OMC	2.08	0.54
5:A:330:ILE:O	5:A:334:HIS:ND1	2.34	0.54
19:A:810:CLA:H11	19:A:812:CLA:H43	1.90	0.54
19:A:803:CLA:H161	18:B:802:BCR:H321	1.88	0.54
19:A:811:CLA:H102	19:J:1101:CLA:HBB2	1.90	0.54
19:A:824:CLA:H161	21:A:845:LHG:H161	1.89	0.54
29:B:841:PQN:H301	26:B:854:DGD:HA91	1.90	0.54
11:G:142:ILE:HG12	22:G:206:LMG:H111	1.90	0.54
19:B:817:CLA:H11	19:G:204:CLA:HED1	1.90	0.54
5:A:343:HIS:HE1	21:A:845:LHG:HC11	1.73	0.54
6:B:462:TRP:NE1	6:B:476:VAL:HG11	2.21	0.54
6:B:636:ASN:HB2	6:B:637:PRO:HD2	1.90	0.54
19:A:827:CLA:H152	19:A:834:CLA:H121	1.89	0.54
19:B:833:CLA:HBA2	19:B:834:CLA:HMB3	1.88	0.54
1:1:183:LYS:HA	19:1:510:CLA:OBD	2.08	0.54
1:1:109:GLN:HG2	19:1:515:CLA:HMC1	1.90	0.54
20:2:526:CHL:HHC	20:2:526:CHL:HBB1	1.89	0.54
15:K:67:ARG:NH2	15:K:94:ASP:OD1	2.41	0.54
1:1:183:LYS:HA	19:1:510:CLA:O1D	2.08	0.54
4:4:82:ALA:HB1	4:4:88:LEU:HD13	1.90	0.54
5:A:205:HIS:CG	19:A:813:CLA:HMC2	2.42	0.54
19:A:809:CLA:H193	19:A:811:CLA:H112	1.89	0.53
12:H:77:PRO:HG3	16:L:90:ARG:CZ	2.38	0.53
19:A:809:CLA:CBB	18:J:1108:BCR:HC8	2.38	0.53
14:J:10:VAL:HG13	14:J:12:PRO:HD2	1.90	0.53
15:K:63:LEU:O	15:K:67:ARG:HB2	2.09	0.53
5:A:327:ILE:HG23	19:A:821:CLA:HED3	1.90	0.53
21:B:842:LHG:O3	21:B:842:LHG:O1	2.18	0.53
1:1:184:GLU:HB2	19:1:504:CLA:CHB	2.39	0.53
6:B:515:GLY:O	6:B:519:VAL:HG23	2.08	0.53
19:B:823:CLA:CMA	19:B:840:CLA:HED2	2.34	0.53
19:4:304:CLA:H42	19:4:305:CLA:HBA1	1.90	0.53
5:A:653:LEU:HD22	6:B:651:LEU:HD21	1.89	0.53
19:B:822:CLA:HHC	19:B:822:CLA:HBB1	1.90	0.53
5:A:139:GLY:HA2	10:F:109:TYR:HE1	1.73	0.53
2:2:120:ILE:HG13	23:2:502:XAT:C16	2.39	0.53
17:3:301:LUT:C32	19:3:305:CLA:HMC2	2.39	0.53
22:2:518:LMG:H111	22:J:1103:LMG:H291	1.89	0.53
1:1:180:TYR:HA	1:1:183:LYS:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1:510:CLA:O2D	19:1:510:CLA:H2A	2.08	0.53
6:B:545:LYS:NZ	31:B:907:HOH:O	2.37	0.53
6:B:657:TRP:CE3	19:B:803:CLA:HMA1	2.44	0.53
29:B:841:PQN:H303	26:B:854:DGD:HA72	1.90	0.53
17:3:301:LUT:H34	19:3:305:CLA:CBB	2.39	0.53
23:4:303:XAT:H183	19:4:309:CLA:C4B	2.38	0.53
5:A:18:VAL:O	31:A:901:HOH:O	2.18	0.53
5:A:232:PHE:HD2	5:A:242:ILE:HG23	1.74	0.53
19:A:809:CLA:HMB1	19:A:809:CLA:HBB1	1.90	0.53
24:B:846:LMT:H41	24:G:208:LMT:H32	1.89	0.53
9:E:104:VAL:HG22	9:E:119:ASN:ND2	2.23	0.53
6:B:444:LEU:HD22	6:B:615:TYR:CZ	2.43	0.53
19:B:825:CLA:HMA1	18:B:853:BCR:H14C	1.90	0.53
22:B:844:LMG:H141	22:F:305:LMG:H111	1.91	0.53
2:2:122:ILE:HB	2:2:123:PRO:HD3	1.90	0.53
3:3:81:LEU:HD13	19:A:812:CLA:H52	1.91	0.53
5:A:195:TRP:CE2	19:A:813:CLA:HBC3	2.43	0.53
5:A:375:HIS:HB3	19:A:818:CLA:HED2	1.91	0.53
2:2:68:PHE:CD2	2:2:71:SER:HB3	2.43	0.52
19:A:821:CLA:HMA2	19:A:825:CLA:C1C	2.39	0.52
19:B:829:CLA:HBB1	19:B:829:CLA:HMB1	1.92	0.52
3:3:112:GLY:HA2	17:3:302:LUT:H181	1.91	0.52
7:C:58:CYS:HA	28:C:102:SF4:S2	2.49	0.52
19:F:302:CLA:H61	18:F:306:BCR:H393	1.91	0.52
5:A:331:LEU:HD12	5:A:343:HIS:HB3	1.91	0.52
19:A:807:CLA:HBA1	19:A:809:CLA:H12	1.91	0.52
19:K:1001:CLA:C3B	18:K:1005:BCR:H12C	2.39	0.52
4:4:217:GLY:O	4:4:221:GLN:HB2	2.10	0.52
5:A:604:TRP:HH2	19:A:803:CLA:HAB	1.74	0.52
18:A:852:BCR:H362	19:A:854:CLA:H52	1.91	0.52
6:B:302:LYS:O	6:B:306:GLU:HG2	2.10	0.52
5:A:544:ILE:HD12	27:A:801:CL0:H63	1.92	0.52
6:B:222:LEU:O	24:B:855:LMT:O2B	2.28	0.52
19:A:832:CLA:H112	29:B:841:PQN:H202	1.90	0.52
6:B:65:LEU:HD21	18:B:851:BCR:H291	1.91	0.52
26:4:319:DGD:O1A	26:4:319:DGD:HG31	2.09	0.52
6:B:303:TYR:HE2	19:B:822:CLA:HED3	1.74	0.52
6:B:272:ASP:HB3	19:B:818:CLA:HMA1	1.91	0.52
6:B:64:ASN:HB3	19:B:809:CLA:HED1	1.92	0.52
19:B:820:CLA:HMB2	19:B:824:CLA:HMA3	1.92	0.52
19:1:516:CLA:C4D	22:F:304:LMG:H121	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:155:ALA:HB2	5:A:383:PRO:HD2	1.92	0.52
5:A:455:PHE:HB3	19:A:833:CLA:HBB2	1.91	0.52
19:A:812:CLA:H42	19:A:812:CLA:C4C	2.40	0.52
19:A:855:CLA:HMA2	18:L:302:BCR:H401	1.92	0.52
6:B:527:LEU:HD12	19:B:837:CLA:HED3	1.92	0.52
2:2:162:TRP:CH2	18:2:503:BCR:H321	2.45	0.51
2:2:217:LEU:HB3	19:2:504:CLA:HMA1	1.92	0.51
6:B:72:GLY:HA2	6:B:87:ILE:HB	1.92	0.51
19:F:303:CLA:H193	22:F:305:LMG:H371	1.91	0.51
19:1:507:CLA:HMD2	20:1:521:CHL:CBB	2.40	0.51
20:1:521:CHL:HBB1	20:1:521:CHL:HHC	1.91	0.51
19:2:508:CLA:OBD	19:2:514:CLA:H2	2.09	0.51
21:2:517:LHG:HC12	20:2:526:CHL:HBC1	1.92	0.51
8:D:131:LYS:NZ	12:H:63:THR:O	2.41	0.51
20:1:521:CHL:C2D	18:4:301:BCR:HC22	2.41	0.51
5:A:195:TRP:CZ2	19:A:813:CLA:HBC3	2.44	0.51
6:B:340:SER:HA	19:B:826:CLA:H41	1.91	0.51
6:B:704:GLN:HG3	26:B:854:DGD:HA22	1.91	0.51
19:L:303:CLA:HAA2	18:L:306:BCR:H352	1.91	0.51
1:1:121:TYR:CE1	19:1:509:CLA:H2	2.46	0.51
3:3:173:PHE:HB2	19:3:315:CLA:CMA	2.41	0.51
22:G:206:LMG:H152	22:G:206:LMG:H201	1.92	0.51
4:4:124:PRO:HG2	4:4:132:GLU:HG3	1.92	0.51
4:4:194:PHE:HD2	19:4:304:CLA:H12	1.74	0.51
5:A:80:SER:OG	5:A:186:TYR:HB2	2.11	0.51
5:A:379:MET:HE1	5:A:511:THR:HG22	1.92	0.51
15:K:57:THR:O	15:K:61:LEU:HB2	2.11	0.51
19:1:511:CLA:HED3	4:4:143:VAL:HB	1.93	0.51
3:3:186:TYR:CZ	24:3:318:LMT:H6D	2.46	0.51
3:3:213:PHE:HB2	19:3:305:CLA:HBA1	1.93	0.51
17:3:301:LUT:C31	18:3:304:BCR:H363	2.41	0.51
19:A:826:CLA:H2	19:A:836:CLA:HMA2	1.92	0.51
20:1:512:CHL:HED1	22:G:210:LMG:HC71	1.93	0.51
19:2:508:CLA:HBC1	20:2:512:CHL:HBB2	1.92	0.51
3:3:187:PHE:CZ	20:3:314:CHL:HBB2	2.45	0.51
3:3:107:ARG:HB2	20:3:314:CHL:HED1	1.92	0.51
23:4:303:XAT:H362	22:4:322:LMG:H381	1.93	0.51
19:B:806:CLA:HBD	19:B:806:CLA:H122	1.93	0.51
19:B:811:CLA:HAC2	18:I:101:BCR:H10C	1.92	0.51
18:2:503:BCR:H372	20:2:513:CHL:HMA2	1.93	0.50
2:2:69:PRO:HD2	20:2:526:CHL:O1D	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:259:HIS:CD2	19:3:307:CLA:HAA2	2.46	0.50
4:4:76:PHE:HB3	19:4:307:CLA:CAD	2.42	0.50
19:A:808:CLA:H192	19:J:1101:CLA:HMA2	1.93	0.50
1:1:146:GLU:HG2	20:1:514:CHL:NB	2.26	0.50
19:A:818:CLA:H12	19:A:818:CLA:C4A	2.42	0.50
19:A:824:CLA:H12	18:A:850:BCR:H15C	1.93	0.50
19:1:507:CLA:HBC1	21:1:517:LHG:H152	1.94	0.50
1:1:75:ARG:NH2	20:1:514:CHL:O1A	2.42	0.50
19:A:821:CLA:HMB2	19:A:825:CLA:HMA3	1.93	0.50
6:B:195:VAL:HA	6:B:199:ILE:HD12	1.93	0.50
19:3:313:CLA:HMD1	19:3:316:CLA:HAB	1.92	0.50
5:A:435:VAL:HA	5:A:438:HIS:CE1	2.46	0.50
6:B:222:LEU:HB2	24:B:855:LMT:H3B	1.92	0.50
19:B:830:CLA:HMB1	19:B:830:CLA:HBB1	1.92	0.50
19:B:825:CLA:H51	19:B:836:CLA:HBA1	1.92	0.50
11:G:76:ARG:HG2	19:G:203:CLA:CAB	2.42	0.50
1:1:75:ARG:NH1	19:1:508:CLA:O1A	2.45	0.50
19:3:315:CLA:H12	19:3:317:CLA:CBB	2.41	0.50
4:4:215:PHE:CG	23:4:303:XAT:H12	2.46	0.50
6:B:383:MET:HE1	18:B:853:BCR:H361	1.94	0.50
4:4:101:TRP:CE2	20:4:314:CHL:HED3	2.47	0.50
5:A:252:ARG:HH22	5:A:265:GLY:HA2	1.75	0.50
19:A:841:CLA:HAC2	18:B:856:BCR:H342	1.94	0.50
19:J:1105:CLA:CBB	19:J:1105:CLA:HHC	2.34	0.50
3:3:158:PHE:CD1	19:3:313:CLA:HBD	2.47	0.50
17:4:302:LUT:H371	19:4:304:CLA:H51	1.94	0.50
4:4:94:ALA:HB2	19:4:315:CLA:HED2	1.92	0.50
3:3:106:GLY:O	3:3:110:MET:HG3	2.11	0.49
3:3:223:LEU:C	19:3:305:CLA:HMA1	2.33	0.49
4:4:148:LEU:HB3	18:4:301:BCR:H16C	1.94	0.49
1:1:45:GLN:HG2	4:4:158:GLN:HE22	1.76	0.49
5:A:629:ASN:HD22	5:A:633:VAL:HB	1.76	0.49
11:G:138:VAL:HG22	22:G:206:LMG:H231	1.94	0.49
16:L:98:ARG:NH1	16:L:176:LEU:HB2	2.26	0.49
19:1:516:CLA:HMA1	30:F:301:ZEX:H8	1.94	0.49
17:2:501:LUT:H10	19:2:504:CLA:H61	1.94	0.49
3:3:256:LEU:O	3:3:260:VAL:HG23	2.11	0.49
19:A:819:CLA:H72	19:A:829:CLA:H91	1.93	0.49
19:A:802:CLA:H203	19:A:841:CLA:H2	1.94	0.49
19:1:508:CLA:H52	19:B:840:CLA:C4B	2.42	0.49
19:G:201:CLA:H193	19:G:204:CLA:H121	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:J:19:PHE:CZ	19:J:1102:CLA:HBC2	2.46	0.49
22:1:518:LMG:H122	22:1:518:LMG:HC92	1.95	0.49
1:1:65:ARG:HH21	22:1:518:LMG:HC3	1.77	0.49
5:A:139:GLY:HA2	10:F:109:TYR:CE1	2.47	0.49
5:A:546:ALA:O	5:A:550:HIS:HD2	1.94	0.49
19:A:830:CLA:H122	19:A:841:CLA:HMA2	1.95	0.49
19:B:834:CLA:O1A	19:G:204:CLA:HBB	2.12	0.49
15:K:124:ILE:HD11	19:K:1002:CLA:HMA1	1.94	0.49
1:1:202:GLN:HG3	26:B:801:DGD:HA32	1.94	0.49
2:2:236:TRP:CZ3	20:2:512:CHL:HMA1	2.47	0.49
20:2:512:CHL:HAB	20:2:515:CHL:HBB2	1.93	0.49
19:4:309:CLA:HBA1	20:4:316:CHL:HMD2	1.93	0.49
11:G:84:ARG:NH2	11:G:127:ASP:OD2	2.45	0.49
15:K:77:LYS:O	15:K:84:GLU:N	2.44	0.49
1:1:183:LYS:HG3	19:1:510:CLA:CGD	2.43	0.49
19:2:509:CLA:HMA2	20:2:515:CHL:HAC2	1.93	0.49
19:3:306:CLA:HHC	19:3:306:CLA:HBB1	1.93	0.49
4:4:138:SER:HA	4:4:141:LEU:HD12	1.95	0.49
5:A:615:HIS:HD2	19:A:836:CLA:HMC2	1.77	0.49
21:A:845:LHG:H261	18:A:850:BCR:H373	1.94	0.49
4:4:210:LEU:HA	26:4:319:DGD:HA31	1.94	0.49
18:L:302:BCR:C36	19:L:304:CLA:HAB	2.42	0.49
4:4:169:ASP:HB3	4:4:172:PHE:O	2.13	0.49
19:4:306:CLA:H18	19:4:306:CLA:HMB1	1.95	0.49
6:B:190:TRP:NE1	19:B:819:CLA:O1D	2.37	0.49
6:B:697:PRO:HB3	19:B:838:CLA:C1C	2.43	0.49
19:3:310:CLA:HMB2	19:3:316:CLA:C4B	2.42	0.49
19:A:833:CLA:HMA2	16:L:117:ALA:HB1	1.95	0.49
19:A:837:CLA:H201	19:L:304:CLA:H102	1.95	0.49
4:4:57:LEU:HB3	4:4:60:LEU:HB3	1.95	0.49
5:A:205:HIS:ND1	19:A:813:CLA:HMC2	2.28	0.49
5:A:701:GLN:O	5:A:705:GLU:HG3	2.13	0.49
5:A:747:TRP:CG	18:A:852:BCR:HC41	2.48	0.49
6:B:428:PHE:CE2	19:B:836:CLA:HAB	2.47	0.49
19:B:838:CLA:HBB2	29:B:841:PQN:H141	1.95	0.49
22:B:845:LMG:H132	24:B:847:LMT:H2'	1.94	0.49
8:D:91:LEU:HD12	16:L:66:ILE:HD13	1.95	0.49
2:2:153:PHE:CE1	22:2:519:LMG:H321	2.47	0.48
3:3:210:PRO:HD2	17:3:301:LUT:H23	1.95	0.48
14:J:12:PRO:HB2	17:J:1109:LUT:H372	1.94	0.48
15:K:117:VAL:O	15:K:121:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1:514:CHL:HBA2	21:1:520:LHG:H121	1.95	0.48
5:A:38:GLY:HA3	5:A:44:ILE:HG22	1.95	0.48
5:A:401:TRP:HB3	19:A:828:CLA:HMC3	1.94	0.48
5:A:521:VAL:HG12	5:A:528:ALA:HB3	1.95	0.48
19:A:826:CLA:O1A	19:A:836:CLA:HMA1	2.13	0.48
19:B:818:CLA:HMC2	19:B:818:CLA:H143	1.96	0.48
1:1:170:TYR:CE2	17:1:501:LUT:H221	2.49	0.48
27:A:801:CL0:H13	19:A:854:CLA:CAD	2.42	0.48
19:A:824:CLA:H61	19:A:824:CLA:H41	1.61	0.48
5:A:546:ALA:HB1	19:A:837:CLA:HMB3	1.95	0.48
19:A:855:CLA:H71	19:B:838:CLA:H43	1.95	0.48
19:L:304:CLA:HBB1	19:L:304:CLA:HMB1	1.94	0.48
3:3:193:GLY:HA3	3:3:207:PHE:CD2	2.49	0.48
19:A:802:CLA:H71	19:A:841:CLA:HMC3	1.94	0.48
6:B:26:ALA:HA	19:B:829:CLA:H42	1.94	0.48
14:J:31:ARG:HD2	17:J:1109:LUT:H41	1.96	0.48
2:2:148:ASP:OD1	4:4:247:GLN:NE2	2.46	0.48
18:2:503:BCR:C33	26:4:319:DGD:HB32	2.42	0.48
19:A:802:CLA:H12	19:A:802:CLA:HMA2	1.95	0.48
6:B:224:PRO:HG2	6:B:233:TYR:CZ	2.48	0.48
6:B:486:LEU:O	6:B:490:ARG:HG3	2.13	0.48
6:B:631:LEU:HD22	6:B:724:PHE:HA	1.95	0.48
17:1:502:LUT:H363	19:1:515:CLA:HMC2	1.96	0.48
6:B:339:ALA:HB2	18:B:853:BCR:H372	1.95	0.48
12:H:123:LEU:HB3	12:H:125:ILE:HG22	1.94	0.48
3:3:72:LEU:HD23	19:3:308:CLA:HED1	1.96	0.48
18:A:850:BCR:H351	18:A:850:BCR:H15C	1.65	0.48
21:A:853:LHG:H161	19:J:1101:CLA:HMB2	1.94	0.48
6:B:411:MET:HE3	19:B:830:CLA:HMD3	1.94	0.48
19:B:805:CLA:HBC1	26:B:854:DGD:HA92	1.95	0.48
24:B:846:LMT:H91	24:G:208:LMT:H61	1.94	0.48
20:2:526:CHL:HED1	3:3:171:ARG:HA	1.96	0.48
2:2:66:LEU:HD11	2:2:73:PRO:HD3	1.95	0.48
18:4:301:BCR:H271	19:4:309:CLA:C1B	2.44	0.48
19:B:805:CLA:H102	19:B:805:CLA:H62	1.57	0.48
15:K:47:ILE:HG12	15:K:48:GLY:H	1.78	0.48
1:1:173:ASP:HB3	1:1:176:LYS:HB3	1.95	0.48
17:3:301:LUT:H162	19:3:307:CLA:HMB3	1.96	0.48
18:2:503:BCR:H333	19:4:310:CLA:HMC3	1.96	0.48
19:A:821:CLA:HBB1	19:A:821:CLA:HMB1	1.96	0.48
6:B:142:LEU:HD11	18:B:851:BCR:H402	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:171:ARG:NH2	3:3:182:MET:O	2.46	0.48
3:3:202:TYR:HA	19:3:305:CLA:O1D	2.14	0.48
19:4:318:CLA:HAC2	30:F:301:ZEX:H372	1.96	0.48
19:A:808:CLA:H203	19:J:1101:CLA:HMA1	1.95	0.48
4:4:175:TYR:HB3	20:4:317:CHL:C3D	2.44	0.47
4:4:95:GLU:HB2	19:4:307:CLA:CHB	2.44	0.47
19:A:824:CLA:H122	19:A:824:CLA:H202	1.96	0.47
10:F:173:TRP:CD1	10:F:210:GLY:HA3	2.49	0.47
1:1:183:LYS:O	1:1:187:ASN:ND2	2.43	0.47
2:2:262:ILE:HD11	19:2:506:CLA:H42	1.96	0.47
18:2:503:BCR:H333	19:4:310:CLA:HHC	1.96	0.47
5:A:516:GLY:O	5:A:531:PRO:HG3	2.14	0.47
19:A:818:CLA:NC	19:A:818:CLA:H61	2.28	0.47
19:A:842:CLA:H8	22:A:847:LMG:H332	1.95	0.47
19:A:803:CLA:H122	18:B:802:BCR:H352	1.95	0.47
7:C:29:ILE:HG22	8:D:182:ARG:HB3	1.96	0.47
14:J:16:THR:HG22	19:J:1101:CLA:C8	2.44	0.47
19:4:306:CLA:H171	19:4:306:CLA:H13	1.62	0.47
19:B:837:CLA:H43	18:B:853:BCR:H10C	1.95	0.47
19:B:839:CLA:HBA2	19:B:839:CLA:H3A	1.58	0.47
11:G:136:HIS:CE1	18:G:205:BCR:H16C	2.49	0.47
17:1:502:LUT:H31	19:1:508:CLA:HBC3	1.96	0.47
2:2:101:TRP:CH2	2:2:168:TRP:HZ3	2.32	0.47
22:2:518:LMG:HC8	22:2:518:LMG:H112	1.66	0.47
4:4:148:LEU:HB3	18:4:301:BCR:C16	2.45	0.47
19:A:821:CLA:H52	19:A:825:CLA:HBB1	1.95	0.47
5:A:448:TRP:HH2	19:A:837:CLA:H151	1.79	0.47
6:B:159:PRO:HA	6:B:162:LYS:HG2	1.97	0.47
6:B:225:LEU:HA	6:B:230:TRP:CD1	2.49	0.47
19:B:819:CLA:H72	19:B:819:CLA:H112	1.57	0.47
19:B:831:CLA:H93	19:B:831:CLA:H111	1.78	0.47
19:F:303:CLA:H61	19:F:303:CLA:H41	1.66	0.47
19:2:507:CLA:CGA	19:2:507:CLA:H3A	2.42	0.47
19:A:805:CLA:H143	19:A:805:CLA:H161	1.69	0.47
19:A:837:CLA:HBB1	19:A:837:CLA:HHC	1.95	0.47
6:B:523:ILE:CG2	19:B:835:CLA:HAB	2.44	0.47
16:L:98:ARG:NH1	16:L:174:ASP:OD1	2.47	0.47
6:B:684:ARG:HE	16:L:68:SER:HB2	1.79	0.47
16:L:96:LEU:O	16:L:100:ILE:HG12	2.14	0.47
4:4:149:PHE:CG	19:4:315:CLA:HMC3	2.49	0.47
19:4:306:CLA:H42	19:4:306:CLA:C4C	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:437:ARG:HG2	8:D:87:SER:HB3	1.95	0.47
5:A:83:PHE:CZ	19:A:810:CLA:HBB1	2.49	0.47
16:L:103:GLY:O	16:L:193:GLY:HA2	2.15	0.47
1:1:180:TYR:C	19:1:504:CLA:HMA1	2.34	0.47
20:1:512:CHL:HBB2	19:1:515:CLA:HBB2	1.95	0.47
3:3:124:LYS:HG3	3:3:253:TYR:CE2	2.50	0.47
19:3:305:CLA:HBC2	19:3:305:CLA:HMC1	1.97	0.47
5:A:302:HIS:HB2	19:A:818:CLA:CHB	2.45	0.47
7:C:15:THR:HG22	7:C:28:MET:HG3	1.97	0.47
7:C:47:ASP:OD2	8:D:135:LYS:NZ	2.37	0.47
10:F:113:SER:OG	10:F:115:PRO:HD2	2.14	0.47
5:A:479:ASP:O	5:A:483:GLN:NE2	2.48	0.47
5:A:512:SER:H	5:A:515:TRP:HD1	1.62	0.47
19:A:842:CLA:H61	19:A:842:CLA:H41	1.71	0.47
19:B:803:CLA:HMB1	19:B:803:CLA:HBB1	1.96	0.47
10:F:203:ALA:O	10:F:207:VAL:HG13	2.15	0.47
1:1:177:PHE:CE2	1:1:181:LYS:HE3	2.49	0.47
19:1:507:CLA:H203	19:4:318:CLA:H52	1.96	0.47
19:3:313:CLA:H12	19:3:313:CLA:H3A	1.97	0.47
5:A:100:GLY:HA2	5:A:104:SER:OG	2.15	0.47
5:A:527:VAL:HG21	5:A:624:VAL:O	2.15	0.47
19:A:832:CLA:H143	19:A:832:CLA:H111	1.67	0.47
6:B:486:LEU:HG	6:B:490:ARG:HE	1.79	0.47
19:B:833:CLA:H111	19:B:834:CLA:H2	1.97	0.47
3:3:139:THR:HB	3:3:141:VAL:HG23	1.95	0.47
5:A:225:VAL:HG13	5:A:245:PRO:HB3	1.95	0.47
5:A:686:TRP:CE3	27:A:801:CL0:H4	2.49	0.47
6:B:729:THR:O	6:B:733:PHE:N	2.43	0.47
24:B:846:LMT:H52	24:B:846:LMT:H82	1.67	0.47
7:C:65:VAL:HG22	28:C:102:SF4:S1	2.55	0.47
8:D:105:TRP:HE1	8:D:123:MET:HG3	1.80	0.47
6:B:228:GLY:HA3	11:G:143:LEU:HB3	1.97	0.47
4:4:130:GLY:HA2	20:4:316:CHL:HBC3	1.97	0.47
19:1:516:CLA:C3D	22:F:304:LMG:H121	2.45	0.47
11:G:142:ILE:HA	11:G:145:THR:HG22	1.96	0.47
15:K:47:ILE:HA	15:K:52:ASN:HD22	1.79	0.47
3:3:140:GLY:HA2	3:3:147:THR:HA	1.96	0.46
4:4:221:GLN:O	4:4:225:THR:HG22	2.14	0.46
19:A:808:CLA:H61	19:A:808:CLA:H41	1.43	0.46
19:A:819:CLA:HMB1	19:A:819:CLA:HBB1	1.96	0.46
19:A:822:CLA:HHC	19:A:822:CLA:HBB1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B:492:ILE:HG23	19:B:817:CLA:HED2	1.97	0.46
19:B:820:CLA:H162	19:B:820:CLA:H141	1.66	0.46
14:J:28:GLU:HG3	19:J:1105:CLA:NB	2.29	0.46
15:K:60:SER:HA	15:K:63:LEU:HD12	1.96	0.46
17:1:502:LUT:H182	19:1:507:CLA:H2	1.97	0.46
19:1:507:CLA:HMD2	20:1:521:CHL:HBB1	1.97	0.46
2:2:68:PHE:HD2	2:2:71:SER:HB3	1.79	0.46
21:1:517:LHG:H162	19:4:318:CLA:HED1	1.97	0.46
5:A:301:HIS:CD2	19:A:818:CLA:HMB1	2.50	0.46
19:A:817:CLA:H161	19:A:817:CLA:H143	1.72	0.46
19:A:821:CLA:HBA1	19:A:825:CLA:C3B	2.45	0.46
19:B:808:CLA:HMA1	19:B:809:CLA:CHB	2.45	0.46
19:B:828:CLA:HBA2	19:B:828:CLA:H3A	1.37	0.46
1:1:66:LEU:HA	21:B:842:LHG:HC12	1.97	0.46
18:A:856:BCR:H11C	18:K:1005:BCR:H323	1.97	0.46
5:A:100:GLY:O	5:A:104:SER:HB2	2.15	0.46
5:A:195:TRP:CE2	19:A:810:CLA:HMA1	2.51	0.46
19:A:811:CLA:H141	19:A:811:CLA:H161	1.63	0.46
19:A:839:CLA:H171	19:A:840:CLA:H43	1.98	0.46
19:B:804:CLA:H162	19:B:804:CLA:H202	1.73	0.46
19:H:1000:CLA:HMB2	19:L:303:CLA:HAA1	1.96	0.46
19:K:1001:CLA:C1B	18:K:1005:BCR:H14C	2.46	0.46
2:2:227:LEU:HD13	19:2:510:CLA:HBC1	1.98	0.46
17:3:301:LUT:C31	19:3:305:CLA:HMC2	2.45	0.46
5:A:268:PRO:HB3	5:A:273:ASN:HB2	1.96	0.46
19:A:825:CLA:HBA1	19:A:829:CLA:H191	1.97	0.46
19:A:826:CLA:HAB	18:A:851:BCR:C23	2.46	0.46
6:B:172:GLU:N	6:B:172:GLU:OE1	2.46	0.46
6:B:694:ARG:HG2	19:B:838:CLA:HED3	1.97	0.46
6:B:656:VAL:HG22	19:B:839:CLA:HMB3	1.96	0.46
6:B:662:MET:HE2	29:B:841:PQN:C2M	2.45	0.46
14:J:22:LEU:HD21	19:J:1102:CLA:C3B	2.46	0.46
19:A:832:CLA:HMC2	19:L:305:CLA:HBB2	1.96	0.46
1:1:91:VAL:HG11	17:1:501:LUT:H12	1.96	0.46
5:A:395:LEU:HD11	19:A:829:CLA:HED3	1.97	0.46
19:B:814:CLA:H141	19:B:814:CLA:H162	1.72	0.46
19:B:840:CLA:HED1	18:B:852:BCR:C35	2.45	0.46
11:G:84:ARG:HA	11:G:84:ARG:HD3	1.73	0.46
19:1:508:CLA:H3A	19:1:508:CLA:HBA1	1.73	0.46
4:4:116:THR:HA	4:4:121:ILE:O	2.16	0.46
6:B:459:PHE:HB3	19:B:835:CLA:H42	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:3:310:CLA:HMA2	19:3:316:CLA:CBC	2.45	0.46
29:A:844:PQN:H161	29:A:844:PQN:H141	1.68	0.46
6:B:576:PHE:CE1	19:B:829:CLA:HAC2	2.51	0.46
6:B:23:PHE:CE2	26:B:854:DGD:HG11	2.50	0.46
8:D:80:PRO:HB3	8:D:124:ARG:HH21	1.80	0.46
8:D:189:PHE:HB3	9:E:100:ARG:HH12	1.79	0.46
1:1:200:VAL:HG13	30:F:301:ZEX:H173	1.98	0.46
1:1:75:ARG:NH2	21:1:520:LHG:O8	2.48	0.46
17:3:301:LUT:H382	19:3:305:CLA:C4D	2.45	0.46
19:4:318:CLA:H3A	19:4:318:CLA:HBA2	1.69	0.46
5:A:537:ALA:O	5:A:541:VAL:HG23	2.15	0.46
5:A:354:TRP:HB3	19:A:805:CLA:HAC1	1.98	0.46
19:A:830:CLA:H41	21:A:853:LHG:H101	1.96	0.46
19:G:204:CLA:H142	19:G:204:CLA:H111	1.69	0.46
15:K:63:LEU:HD21	18:K:1005:BCR:H17C	1.98	0.46
2:2:137:TRP:HH2	2:2:236:TRP:HA	1.81	0.46
2:2:238:GLN:OE1	17:2:501:LUT:H24	2.16	0.46
17:2:501:LUT:H392	19:2:506:CLA:HBB1	1.98	0.46
21:2:517:LHG:HC42	18:3:303:BCR:HC22	1.98	0.46
3:3:84:SER:OG	19:3:308:CLA:HAA2	2.16	0.46
19:4:312:CLA:HBC1	26:4:319:DGD:O5D	2.15	0.46
4:4:91:PHE:C	19:4:307:CLA:HMA1	2.37	0.46
19:A:825:CLA:H193	19:A:825:CLA:H161	1.71	0.46
19:1:508:CLA:H71	18:B:852:BCR:H321	1.98	0.46
10:F:154:GLN:HE21	19:F:303:CLA:HED2	1.79	0.46
21:1:520:LHG:H223	19:G:204:CLA:H192	1.98	0.46
16:L:182:TRP:O	16:L:186:THR:HG23	2.16	0.46
2:2:148:ASP:HB2	22:2:519:LMG:C6	2.46	0.46
19:A:811:CLA:H3A	19:A:811:CLA:HBA2	1.39	0.46
19:A:813:CLA:H41	19:A:813:CLA:H61	1.71	0.46
19:A:854:CLA:H91	19:A:854:CLA:H111	1.81	0.46
19:A:854:CLA:HMA1	19:B:803:CLA:H202	1.97	0.46
6:B:183:PHE:CE1	19:B:814:CLA:H92	2.50	0.46
6:B:243:LEU:HB2	6:B:246:THR:OG1	2.15	0.46
19:A:854:CLA:HAB	6:B:582:TRP:CZ2	2.51	0.46
19:G:204:CLA:HBD	31:G:302:HOH:O	2.16	0.46
14:J:32:PHE:CE2	19:J:1105:CLA:HMA3	2.51	0.46
1:1:146:GLU:OE2	1:1:149:ARG:NH2	2.49	0.45
19:1:508:CLA:H41	19:1:508:CLA:H62	1.34	0.45
2:2:186:ASN:HB3	20:2:516:CHL:C2D	2.46	0.45
21:2:517:LHG:HC11	21:2:517:LHG:O4	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:736:THR:HG23	21:A:853:LHG:H342	1.98	0.45
19:A:824:CLA:H191	19:A:824:CLA:CAB	2.46	0.45
23:4:303:XAT:H391	23:4:303:XAT:H31	1.81	0.45
6:B:365:PHE:HB3	6:B:602:TRP:CZ3	2.52	0.45
5:A:713:LYS:HB3	19:B:831:CLA:HMA2	1.98	0.45
21:B:843:LHG:H182	21:B:843:LHG:H211	1.79	0.45
1:1:142:ILE:HD13	18:1:503:BCR:H361	1.98	0.45
3:3:243:ILE:HG13	19:3:307:CLA:HAC2	1.99	0.45
4:4:155:ARG:NH2	4:4:166:VAL:O	2.45	0.45
20:4:314:CHL:CBB	20:4:314:CHL:HHC	2.42	0.45
5:A:479:ASP:HA	5:A:483:GLN:HG2	1.97	0.45
5:A:496:HIS:HE1	19:A:834:CLA:C4A	2.29	0.45
6:B:50:HIS:HE1	19:B:806:CLA:H161	1.81	0.45
3:3:247:VAL:HG12	3:3:267:ASN:HD21	1.81	0.45
4:4:111:LEU:HA	4:4:114:VAL:HG12	1.98	0.45
19:A:806:CLA:H162	19:A:806:CLA:H192	1.67	0.45
19:A:824:CLA:HMA1	19:A:842:CLA:CAB	2.43	0.45
19:A:855:CLA:H143	19:A:855:CLA:H112	1.61	0.45
19:B:822:CLA:H61	19:B:822:CLA:H41	1.65	0.45
10:F:197:ILE:HG12	14:J:10:VAL:HG23	1.98	0.45
14:J:12:PRO:O	14:J:16:THR:HG23	2.16	0.45
15:K:52:ASN:HA	19:K:1001:CLA:OBD	2.16	0.45
2:2:207:GLY:CA	19:2:504:CLA:HAA2	2.47	0.45
20:2:526:CHL:H62	20:2:526:CHL:H41	1.59	0.45
5:A:368:LEU:HD11	19:A:819:CLA:H62	1.98	0.45
19:A:842:CLA:CHB	21:A:845:LHG:HC62	2.47	0.45
6:B:174:ARG:HE	19:B:824:CLA:HMD1	1.82	0.45
19:B:812:CLA:H93	19:B:812:CLA:H112	1.74	0.45
8:D:110:GLU:HA	8:D:123:MET:O	2.16	0.45
8:D:177:LYS:O	8:D:182:ARG:NH1	2.49	0.45
18:G:205:BCR:H15C	18:G:205:BCR:H351	1.80	0.45
1:1:140:LEU:HD11	11:G:70:LEU:HD13	1.97	0.45
11:G:84:ARG:HA	11:G:87:VAL:HG12	1.99	0.45
19:H:1000:CLA:HMB3	18:L:307:BCR:H372	1.99	0.45
19:L:304:CLA:H112	19:L:304:CLA:H91	1.81	0.45
1:1:85:ARG:HB3	19:1:504:CLA:HBC2	1.98	0.45
20:2:515:CHL:HED2	4:4:241:TRP:CH2	2.51	0.45
6:B:276:HIS:HB2	19:B:818:CLA:C1B	2.47	0.45
6:B:462:TRP:HE1	6:B:476:VAL:HG11	1.81	0.45
19:B:837:CLA:C1D	19:B:840:CLA:H203	2.47	0.45
19:B:838:CLA:H111	19:B:839:CLA:H13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1:508:CLA:H12	19:B:840:CLA:HMC3	1.98	0.45
16:L:87:PRO:O	16:L:98:ARG:HD2	2.16	0.45
1:1:55:ALA:HB3	1:1:58:ASP:HB2	1.98	0.45
3:3:139:THR:CG2	19:3:310:CLA:HED3	2.44	0.45
20:3:314:CHL:CHA	20:3:314:CHL:HBA1	2.47	0.45
4:4:105:GLY:HA2	23:4:303:XAT:H181	1.98	0.45
19:A:802:CLA:H42	19:A:854:CLA:HBB1	1.98	0.45
19:A:832:CLA:H161	19:A:832:CLA:H193	1.70	0.45
19:A:855:CLA:H152	16:L:141:LEU:HD21	1.98	0.45
6:B:529:THR:HG21	6:B:582:TRP:CE2	2.52	0.45
6:B:608:GLN:O	6:B:612:SER:HB2	2.17	0.45
19:A:839:CLA:H193	10:F:177:VAL:HG12	1.99	0.45
2:2:117:ALA:HB1	17:2:501:LUT:H32	1.99	0.45
19:4:315:CLA:H161	19:4:315:CLA:H143	1.71	0.45
19:A:821:CLA:H91	19:A:821:CLA:H111	1.88	0.45
19:B:820:CLA:HMC2	19:B:824:CLA:H161	1.99	0.45
19:1:507:CLA:H2A	19:1:507:CLA:HED2	1.99	0.45
21:1:520:LHG:H161	21:1:520:LHG:H132	1.53	0.45
2:2:159:PHE:HB3	18:2:503:BCR:C16	2.46	0.45
19:A:806:CLA:HMB1	19:A:806:CLA:HBB1	1.98	0.45
19:A:827:CLA:H122	19:A:827:CLA:H161	1.74	0.45
19:B:807:CLA:H61	19:B:807:CLA:H92	1.84	0.45
19:B:827:CLA:O1D	19:B:828:CLA:HMA1	2.17	0.45
19:B:830:CLA:HMB2	19:B:831:CLA:C2D	2.47	0.45
6:B:435:GLY:HA3	19:B:832:CLA:HAB	1.99	0.45
19:B:838:CLA:C15	18:I:101:BCR:H11C	2.44	0.45
1:1:180:TYR:HD1	1:1:183:LYS:HD3	1.81	0.45
18:2:503:BCR:C33	19:4:310:CLA:HMC3	2.47	0.45
3:3:193:GLY:HA2	3:3:206:PRO:HD2	1.99	0.45
4:4:130:GLY:HA2	20:4:316:CHL:CBC	2.48	0.45
5:A:101:ALA:HB2	5:A:164:LEU:HB2	1.99	0.45
19:A:828:CLA:H162	19:A:828:CLA:H202	1.61	0.45
19:A:828:CLA:O1D	19:A:829:CLA:HMA1	2.17	0.45
19:A:855:CLA:H111	19:B:838:CLA:H61	1.98	0.45
10:F:219:ARG:NH1	31:F:403:HOH:O	2.49	0.45
15:K:67:ARG:HH21	19:K:1004:CLA:C1C	2.30	0.45
19:1:513:CLA:H161	19:1:513:CLA:H203	1.75	0.44
19:A:802:CLA:H92	6:B:431:PHE:HE1	1.82	0.44
19:A:838:CLA:H52	19:A:838:CLA:H8	1.58	0.44
6:B:311:PRO:C	6:B:313:GLY:H	2.21	0.44
19:B:817:CLA:H3A	19:B:817:CLA:HBA2	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B:819:CLA:H161	19:B:819:CLA:H192	1.72	0.44
1:1:85:ARG:HB3	19:1:504:CLA:CBC	2.48	0.44
3:3:75:ASP:HA	19:3:308:CLA:O1D	2.17	0.44
19:4:307:CLA:HED2	19:4:307:CLA:H2A	1.99	0.44
10:F:188:ASP:OD1	10:F:189:LYS:N	2.48	0.44
18:I:102:BCR:H24C	16:L:145:LEU:CD2	2.46	0.44
2:2:180:ASP:HB3	2:2:183:PHE:O	2.17	0.44
6:B:160:LYS:O	19:B:812:CLA:HED3	2.17	0.44
19:B:820:CLA:H142	19:B:820:CLA:H112	1.63	0.44
19:B:825:CLA:C1B	18:B:853:BCR:H363	2.48	0.44
11:G:141:TYR:OH	19:G:204:CLA:H2	2.18	0.44
18:I:102:BCR:H19C	16:L:144:CYS:HB3	1.99	0.44
16:L:165:THR:HG22	16:L:171:LYS:HD2	1.99	0.44
1:1:121:TYR:CD1	19:1:509:CLA:H2	2.53	0.44
1:1:160:TYR:CD2	1:1:181:LYS:HE2	2.52	0.44
22:2:519:LMG:C10	19:J:1105:CLA:H11	2.47	0.44
2:2:61:GLU:CG	2:2:64:ARG:HB3	2.47	0.44
5:A:207:LEU:O	5:A:310:PHE:HB3	2.16	0.44
5:A:338:PHE:CD2	21:A:845:LHG:HC42	2.53	0.44
5:A:85:GLN:HG2	19:A:805:CLA:CMA	2.47	0.44
19:B:809:CLA:CGA	19:B:809:CLA:C1A	2.96	0.44
19:B:834:CLA:H62	19:B:834:CLA:H41	1.67	0.44
19:A:828:CLA:H152	18:J:1108:BCR:H16C	2.00	0.44
14:J:34:PRO:O	26:J:1106:DGD:O2D	2.28	0.44
1:1:193:LEU:HD22	21:1:517:LHG:H141	1.99	0.44
3:3:256:LEU:HD23	3:3:257:LEU:HD23	1.98	0.44
19:3:317:CLA:HBB1	19:3:317:CLA:HHC	1.98	0.44
4:4:138:SER:OG	24:4:320:LMT:H6E	2.17	0.44
5:A:124:TRP:HB3	17:J:1109:LUT:H183	1.99	0.44
27:A:801:CL0:H10	27:A:801:CL0:H72	1.58	0.44
10:F:148:LEU:HD22	10:F:159:GLU:HB3	1.99	0.44
22:F:304:LMG:H122	22:F:304:LMG:H151	1.66	0.44
12:H:85:PHE:CE1	18:L:307:BCR:H11C	2.53	0.44
2:2:236:TRP:CZ3	20:2:512:CHL:HHB	2.42	0.44
17:3:302:LUT:H24	19:3:308:CLA:H2	2.00	0.44
19:A:822:CLA:H111	19:A:822:CLA:H93	1.75	0.44
6:B:203:ARG:NH2	6:B:253:ALA:O	2.41	0.44
6:B:459:PHE:CE2	19:F:303:CLA:HBB1	2.52	0.44
18:1:503:BCR:H383	19:1:515:CLA:HAA1	2.00	0.44
20:2:513:CHL:HBB2	20:2:516:CHL:CMC	2.48	0.44
3:3:171:ARG:HD3	20:3:314:CHL:CBB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:18:VAL:HG13	5:A:198:ASP:OD2	2.17	0.44
5:A:225:VAL:HG11	19:A:814:CLA:O1D	2.18	0.44
2:2:114:MET:SD	19:2:504:CLA:HAB	2.57	0.44
4:4:203:LYS:HD3	19:4:305:CLA:HAA2	2.00	0.44
19:4:306:CLA:H61	19:4:306:CLA:H41	1.63	0.44
20:4:313:CHL:HMD2	24:4:320:LMT:H12	2.00	0.44
5:A:166:CYS:SG	19:A:816:CLA:HAA2	2.58	0.44
5:A:252:ARG:HD2	19:A:815:CLA:HED2	2.00	0.44
19:A:806:CLA:H162	19:A:806:CLA:H122	1.47	0.44
6:B:53:GLN:HG2	19:B:806:CLA:HMA1	1.99	0.44
6:B:268:LEU:HD13	19:B:818:CLA:HMA2	1.99	0.44
19:B:825:CLA:HED2	19:B:826:CLA:HBD	1.98	0.44
15:K:113:ILE:HA	19:K:1002:CLA:HMC1	1.99	0.44
15:K:66:GLY:HA3	15:K:106:CYS:SG	2.58	0.44
16:L:73:VAL:HG12	19:L:301:CLA:O1A	2.18	0.44
1:1:183:LYS:CA	19:1:510:CLA:O1D	2.66	0.44
20:1:514:CHL:H11	21:1:520:LHG:H261	1.98	0.44
5:A:348:GLU:OE1	5:A:348:GLU:N	2.45	0.44
27:A:801:CL0:H49	27:A:801:CL0:H41	1.78	0.44
6:B:59:LEU:HD21	19:B:808:CLA:H111	2.00	0.44
19:B:815:CLA:HBB1	19:B:815:CLA:HMB1	1.99	0.44
19:B:832:CLA:HMA2	26:J:1106:DGD:HA42	1.99	0.44
19:B:840:CLA:H41	19:B:840:CLA:H62	1.62	0.44
29:B:841:PQN:H292	29:B:841:PQN:H262	1.70	0.44
10:F:162:THR:HB	10:F:163:PRO:HD3	1.99	0.44
15:K:92:THR:HG21	15:K:98:PHE:O	2.18	0.44
20:1:512:CHL:C2C	19:1:515:CLA:HMC3	2.47	0.43
19:A:806:CLA:H61	19:A:806:CLA:H41	1.74	0.43
6:B:210:ASN:OD1	6:B:211:ASN:N	2.50	0.43
6:B:56:ILE:HD11	21:B:843:LHG:H361	2.00	0.43
1:1:153:LYS:HA	1:1:158:LYS:HD2	2.00	0.43
2:2:124:GLU:HG2	2:2:246:PRO:HD2	1.99	0.43
17:2:501:LUT:H31	19:2:505:CLA:HMC2	2.00	0.43
19:2:505:CLA:H61	19:2:505:CLA:H41	1.67	0.43
19:3:306:CLA:O2A	19:3:306:CLA:H2A	2.17	0.43
19:3:308:CLA:H161	19:3:308:CLA:H141	1.79	0.43
5:A:641:ASN:O	5:A:645:SER:HB2	2.18	0.43
5:A:580:PRO:HB3	5:A:727:ILE:HB	2.01	0.43
19:A:807:CLA:C1C	24:A:846:LMT:H101	2.48	0.43
19:A:828:CLA:H3A	19:A:828:CLA:HBA2	1.64	0.43
19:A:842:CLA:HMC3	21:A:845:LHG:O1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B:828:CLA:HMB1	19:B:828:CLA:HBB1	2.00	0.43
1:1:112:ALA:HB3	20:1:512:CHL:HMD3	1.99	0.43
17:2:501:LUT:H173	19:2:504:CLA:H12	2.00	0.43
22:4:322:LMG:H121	31:F:405:HOH:O	2.18	0.43
5:A:418:MET:HE1	5:A:436:LEU:HD11	2.00	0.43
5:A:675:TYR:O	5:A:748:ALA:HB1	2.18	0.43
6:B:439:HIS:CD2	6:B:453:ILE:HG13	2.53	0.43
19:B:808:CLA:H161	19:B:808:CLA:H203	1.73	0.43
19:B:815:CLA:H112	19:B:815:CLA:H91	1.78	0.43
1:1:183:LYS:HG2	19:1:505:CLA:HBD	2.01	0.43
19:2:504:CLA:HBA2	19:2:504:CLA:H3A	1.49	0.43
19:3:307:CLA:HHC	19:3:307:CLA:HBB1	2.00	0.43
19:3:313:CLA:H91	19:3:313:CLA:H111	1.74	0.43
23:4:303:XAT:C32	19:4:308:CLA:HMB2	2.48	0.43
5:A:252:ARG:HH22	5:A:265:GLY:CA	2.30	0.43
5:A:749:PHE:CD2	27:A:801:CL0:H25	2.53	0.43
19:A:802:CLA:H111	18:A:852:BCR:H23C	2.00	0.43
19:A:804:CLA:HBB1	19:A:811:CLA:C12	2.46	0.43
19:A:809:CLA:HBB1	18:J:1108:BCR:C8	2.47	0.43
19:A:826:CLA:HMB3	18:A:851:BCR:H19C	2.01	0.43
5:A:334:HIS:HB3	21:A:845:LHG:O1	2.18	0.43
19:B:803:CLA:O2D	19:B:803:CLA:HAA2	2.19	0.43
6:B:410:ARG:HD3	19:B:830:CLA:OBD	2.18	0.43
11:G:129:LEU:O	18:G:205:BCR:H362	2.19	0.43
19:2:511:CLA:HBB1	20:2:526:CHL:H202	1.99	0.43
18:4:301:BCR:C23	18:4:301:BCR:H403	2.49	0.43
5:A:217:SER:HB3	18:A:848:BCR:H14C	1.99	0.43
5:A:298:ASP:HB3	19:A:818:CLA:HMA1	2.01	0.43
19:A:855:CLA:H61	19:A:855:CLA:H41	1.63	0.43
19:B:818:CLA:H162	19:B:818:CLA:H192	1.72	0.43
19:B:819:CLA:H41	19:B:819:CLA:H61	1.67	0.43
1:1:78:GLU:O	1:1:82:ILE:HG12	2.19	0.43
19:2:507:CLA:H162	19:2:507:CLA:H193	1.68	0.43
19:4:309:CLA:HMA2	20:4:316:CHL:CBC	2.44	0.43
19:A:804:CLA:H3A	19:A:804:CLA:HBA2	1.39	0.43
19:A:812:CLA:HBD	19:A:812:CLA:HBA1	2.01	0.43
6:B:255:LEU:HD11	19:B:816:CLA:HBC1	2.00	0.43
19:B:819:CLA:HAB	19:B:819:CLA:H8	2.00	0.43
19:B:820:CLA:H61	19:B:820:CLA:H41	1.74	0.43
19:G:201:CLA:HHC	19:G:201:CLA:CBB	2.49	0.43
1:1:91:VAL:HG11	17:1:501:LUT:H10	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1:517:LHG:H182	19:4:318:CLA:HED1	2.00	0.43
19:2:507:CLA:H41	19:2:507:CLA:H62	1.78	0.43
5:A:541:VAL:HG11	5:A:615:HIS:CG	2.53	0.43
19:A:802:CLA:O1A	19:A:802:CLA:H2	2.18	0.43
19:A:817:CLA:H41	19:A:817:CLA:H62	1.46	0.43
19:B:805:CLA:H3A	21:B:843:LHG:H291	2.00	0.43
19:A:832:CLA:HMA1	18:I:101:BCR:HC32	2.00	0.43
15:K:47:ILE:HG12	15:K:48:GLY:N	2.33	0.43
21:1:517:LHG:H382	21:1:517:LHG:H352	1.85	0.43
2:2:146:PHE:HE1	4:4:241:TRP:CD2	2.36	0.43
2:2:153:PHE:CD1	20:2:512:CHL:HAC2	2.54	0.43
5:A:396:PHE:O	5:A:400:MET:HG2	2.19	0.43
19:A:833:CLA:H11	18:L:302:BCR:C11	2.48	0.43
22:J:1104:LMG:H341	26:J:1106:DGD:HB51	2.01	0.43
26:J:1106:DGD:HAH2	26:J:1106:DGD:HAS1	1.58	0.43
1:1:184:GLU:HB2	19:1:504:CLA:C1B	2.49	0.43
19:1:510:CLA:C1C	21:1:517:LHG:HC42	2.48	0.43
5:A:268:PRO:HB2	5:A:277:TYR:CE2	2.54	0.43
5:A:287:LEU:HD22	5:A:513:LEU:HD12	2.00	0.43
5:A:608:ALA:O	5:A:612:VAL:HG23	2.19	0.43
19:B:807:CLA:HBA1	19:B:829:CLA:HMB2	2.01	0.43
19:B:830:CLA:H102	19:B:830:CLA:H61	1.84	0.43
7:C:11:CYS:SG	7:C:39:ILE:HG13	2.58	0.43
18:B:856:BCR:H403	10:F:167:PHE:HB2	2.01	0.43
6:B:166:SER:OG	11:G:103:ALA:O	2.34	0.43
22:2:519:LMG:HC1	22:2:519:LMG:HC8	1.87	0.43
19:3:315:CLA:HMB2	19:3:317:CLA:C4B	2.49	0.43
20:4:316:CHL:OMC	20:4:316:CHL:HBC3	2.19	0.43
5:A:62:HIS:HB2	19:A:830:CLA:HBA1	2.00	0.43
19:A:854:CLA:O1A	19:A:854:CLA:H3A	2.18	0.43
6:B:270:LEU:HD23	6:B:273:MET:HE3	2.01	0.43
19:B:803:CLA:HBA2	19:B:803:CLA:H3A	1.79	0.43
6:B:352:MET:HG2	19:B:819:CLA:O1A	2.19	0.43
6:B:303:TYR:CE2	19:B:822:CLA:HED3	2.54	0.43
10:F:213:TRP:CG	10:F:214:PRO:HD3	2.53	0.43
1:1:144:PHE:O	1:1:148:GLN:HG2	2.18	0.42
20:2:526:CHL:H112	20:2:526:CHL:H71	1.66	0.42
2:2:61:GLU:HB3	2:2:79:GLY:HA3	2.01	0.42
19:4:309:CLA:H3A	19:4:309:CLA:HBA2	1.40	0.42
19:4:306:CLA:H203	19:4:310:CLA:HAC2	2.00	0.42
5:A:62:HIS:CD2	19:A:805:CLA:HBB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:A:824:CLA:H8	19:A:824:CLA:H202	2.00	0.42
19:A:840:CLA:H93	10:F:203:ALA:HB1	2.01	0.42
6:B:437:TYR:CZ	6:B:518:LEU:HB3	2.54	0.42
19:B:820:CLA:HMA2	19:B:824:CLA:C1C	2.49	0.42
19:B:825:CLA:H162	19:B:825:CLA:H141	1.73	0.42
8:D:162:GLY:HA2	12:H:60:LEU:HD11	2.01	0.42
1:1:76:PHE:C	19:1:507:CLA:HMA1	2.39	0.42
4:4:71:PRO:HB2	4:4:205:ILE:HD12	2.01	0.42
19:B:811:CLA:H3A	19:B:811:CLA:HBA1	1.77	0.42
19:B:832:CLA:H72	19:B:832:CLA:H111	1.92	0.42
9:E:97:PRO:C	9:E:99:THR:H	2.22	0.42
19:G:201:CLA:H41	19:G:201:CLA:H61	1.49	0.42
19:H:1000:CLA:H61	19:H:1000:CLA:H41	1.77	0.42
4:4:142:PHE:CD1	24:4:320:LMT:H62	2.54	0.42
5:A:134:GLY:O	5:A:141:ARG:HA	2.19	0.42
5:A:451:ILE:HD11	18:B:802:BCR:H402	2.01	0.42
19:A:803:CLA:HED2	19:B:803:CLA:C3B	2.49	0.42
19:A:808:CLA:HBA2	19:A:808:CLA:H3A	1.30	0.42
19:A:812:CLA:HHC	19:A:812:CLA:HBB1	2.01	0.42
19:A:831:CLA:H102	19:A:831:CLA:H61	1.46	0.42
6:B:159:PRO:C	6:B:161:TRP:H	2.23	0.42
19:1:516:CLA:H141	26:B:801:DGD:HA61	2.01	0.42
19:B:816:CLA:H61	19:B:816:CLA:H92	1.81	0.42
19:B:826:CLA:H111	19:B:826:CLA:H93	1.74	0.42
19:B:840:CLA:HBA1	19:B:840:CLA:H3A	1.81	0.42
19:1:508:CLA:H141	19:1:508:CLA:H162	1.77	0.42
18:2:503:BCR:H322	19:4:312:CLA:HMD2	2.01	0.42
19:2:514:CLA:H3A	19:2:514:CLA:HBA1	1.80	0.42
19:3:305:CLA:C4	19:3:306:CLA:HBA1	2.48	0.42
22:1:518:LMG:H352	19:4:318:CLA:C1D	2.50	0.42
19:A:838:CLA:H41	19:A:838:CLA:H61	1.55	0.42
19:A:841:CLA:HAC1	29:A:844:PQN:H171	2.01	0.42
19:A:828:CLA:C1C	18:A:852:BCR:HC21	2.49	0.42
19:B:840:CLA:H91	19:B:840:CLA:H111	1.79	0.42
24:B:855:LMT:H52	19:G:202:CLA:HBC3	2.00	0.42
19:B:838:CLA:H161	18:I:101:BCR:H353	2.01	0.42
3:3:78:PHE:HB3	19:3:308:CLA:CAD	2.50	0.42
4:4:97:VAL:HG12	19:4:315:CLA:HMD3	2.01	0.42
19:A:830:CLA:H171	19:A:830:CLA:H13	1.83	0.42
19:A:824:CLA:H201	18:A:850:BCR:H17C	2.02	0.42
6:B:376:GLN:HA	6:B:376:GLN:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B:805:CLA:HBA2	19:B:805:CLA:H3A	1.50	0.42
19:B:811:CLA:H92	19:B:811:CLA:H61	1.74	0.42
22:J:1104:LMG:H112	24:J:1107:LMT:H2'	2.02	0.42
18:K:1005:BCR:H351	18:K:1005:BCR:H15C	1.90	0.42
2:2:238:GLN:HB3	2:2:249:ASN:ND2	2.34	0.42
19:2:510:CLA:C4C	21:2:517:LHG:HC62	2.49	0.42
3:3:154:ASN:HA	3:3:157:LEU:HD12	2.01	0.42
4:4:203:LYS:O	4:4:207:ASN:ND2	2.38	0.42
5:A:272:LEU:HD13	19:K:1001:CLA:HMD2	2.01	0.42
5:A:699:TYR:CZ	19:A:802:CLA:HMD1	2.55	0.42
19:A:818:CLA:O1D	19:A:819:CLA:HMA1	2.19	0.42
19:A:821:CLA:HBA1	19:A:825:CLA:CAB	2.50	0.42
19:A:818:CLA:H71	19:A:835:CLA:HMA2	2.00	0.42
19:B:806:CLA:H3A	19:B:806:CLA:HBA1	1.47	0.42
19:G:204:CLA:H93	19:G:204:CLA:H61	1.83	0.42
19:B:832:CLA:O1D	14:J:35:ASP:HA	2.20	0.42
2:2:176:CYS:SG	4:4:59:GLY:HA2	2.59	0.42
18:3:303:BCR:C35	20:3:314:CHL:HAB	2.50	0.42
20:4:313:CHL:HHC	20:4:313:CHL:HBB1	2.01	0.42
20:4:314:CHL:HBB2	20:4:317:CHL:CMC	2.48	0.42
5:A:645:SER:O	5:A:651:GLY:HA3	2.20	0.42
19:A:809:CLA:H161	19:A:811:CLA:H142	2.01	0.42
19:A:832:CLA:C1C	19:A:833:CLA:H93	2.49	0.42
6:B:177:HIS:CG	19:B:814:CLA:HMC2	2.54	0.42
6:B:441:ASP:OD2	6:B:616:LEU:N	2.44	0.42
6:B:149:SER:OG	19:B:815:CLA:H191	2.19	0.42
19:B:829:CLA:C14	26:B:854:DGD:HAW1	2.49	0.42
19:B:829:CLA:H161	19:B:829:CLA:H141	1.65	0.42
18:B:849:BCR:H24C	19:G:201:CLA:HMD2	2.00	0.42
12:H:65:GLY:HA2	12:H:67:TRP:CH2	2.54	0.42
15:K:62:MET:HG2	15:K:109:VAL:HB	2.02	0.42
8:D:86:GLY:HA2	16:L:64:PRO:O	2.20	0.42
1:1:102:LEU:HD11	1:1:122:LEU:HD23	2.02	0.42
18:1:503:BCR:H381	19:1:509:CLA:H12	2.02	0.42
21:1:520:LHG:HC5	21:1:520:LHG:HC81	1.44	0.42
2:2:109:HIS:HE1	19:2:508:CLA:ND	2.17	0.42
20:2:512:CHL:CBB	20:2:512:CHL:HMB1	2.43	0.42
5:A:694:PHE:HB2	19:A:802:CLA:HBC2	2.01	0.42
5:A:183:TRP:HB2	19:A:811:CLA:HMC3	2.01	0.42
19:A:821:CLA:H41	19:A:821:CLA:H62	1.56	0.42
19:A:828:CLA:H112	19:A:828:CLA:H71	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:A:831:CLA:HMB1	19:A:831:CLA:HBB1	2.02	0.42
29:A:844:PQN:H303	29:A:844:PQN:H261	1.80	0.42
19:B:804:CLA:H161	19:B:804:CLA:H141	1.64	0.42
7:C:26:LEU:HA	7:C:41:SER:O	2.19	0.42
8:D:202:LYS:HE2	8:D:203:PHE:CZ	2.54	0.42
26:J:1106:DGD:HD61	26:J:1106:DGD:HE2	1.75	0.42
15:K:78:ALA:HB2	15:K:83:LEU:HD23	2.02	0.42
20:1:512:CHL:C1C	19:1:515:CLA:HMC3	2.50	0.42
2:2:182:ILE:O	2:2:184:PRO:HD3	2.20	0.42
2:2:238:GLN:HE21	19:2:506:CLA:C1A	2.33	0.42
2:2:148:ASP:HB2	22:2:519:LMG:HC62	2.01	0.42
20:2:526:CHL:H93	20:2:526:CHL:H51	2.02	0.42
5:A:25:ASP:HA	5:A:187:HIS:O	2.19	0.42
5:A:252:ARG:HH22	5:A:265:GLY:N	2.18	0.42
8:D:104:THR:HA	8:D:128:ASN:O	2.20	0.42
14:J:28:GLU:HG3	19:J:1105:CLA:C4B	2.50	0.42
2:2:106:GLU:HB2	19:2:507:CLA:CHB	2.50	0.42
21:2:517:LHG:HC82	20:2:526:CHL:C1C	2.50	0.42
5:A:564:ARG:HA	5:A:573:ALA:HB2	2.02	0.42
19:A:825:CLA:H61	19:A:825:CLA:H93	1.86	0.42
6:B:644:SER:OG	19:B:810:CLA:HBC1	2.20	0.42
6:B:576:PHE:HE1	19:B:829:CLA:HAC2	1.83	0.42
6:B:478:LEU:HD21	19:B:833:CLA:HED2	2.01	0.42
15:K:47:ILE:HG13	15:K:52:ASN:HD22	1.84	0.42
16:L:98:ARG:HH12	16:L:176:LEU:HB2	1.84	0.42
1:1:113:ALA:HA	19:G:204:CLA:HAC2	2.02	0.41
1:1:183:LYS:N	19:1:510:CLA:O1D	2.53	0.41
2:2:211:PRO:O	2:2:212:GLN:HB2	2.20	0.41
3:3:267:ASN:HB3	19:3:307:CLA:CAD	2.50	0.41
5:A:754:ILE:HA	5:A:754:ILE:HD12	1.87	0.41
19:A:807:CLA:H12	19:A:809:CLA:O1A	2.20	0.41
19:A:830:CLA:H41	19:A:830:CLA:H62	1.76	0.41
19:B:823:CLA:HBB2	19:B:840:CLA:H51	2.02	0.41
12:H:73:ASP:HB2	16:L:171:LYS:HE2	2.01	0.41
19:2:506:CLA:H192	19:2:506:CLA:H161	1.69	0.41
3:3:189:GLY:C	3:3:191:GLU:H	2.24	0.41
19:A:824:CLA:H191	19:A:824:CLA:HAB	2.02	0.41
19:A:837:CLA:HBB2	19:A:838:CLA:HBC3	2.01	0.41
6:B:410:ARG:HH22	22:B:844:LMG:C6	2.26	0.41
19:B:808:CLA:H62	19:B:808:CLA:H101	1.55	0.41
19:B:819:CLA:HBB2	19:B:824:CLA:C19	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B:822:CLA:HMB3	19:B:840:CLA:C1D	2.50	0.41
19:B:829:CLA:H111	19:B:829:CLA:H143	1.83	0.41
12:H:60:LEU:HA	12:H:63:THR:HB	2.02	0.41
19:2:510:CLA:HBB2	18:3:303:BCR:HC7	2.02	0.41
3:3:110:MET:HB3	17:3:301:LUT:C35	2.50	0.41
20:1:521:CHL:C1D	18:4:301:BCR:HC22	2.49	0.41
19:A:802:CLA:H112	19:A:802:CLA:H91	1.72	0.41
19:A:855:CLA:HMD3	6:B:678:LEU:HD13	2.02	0.41
6:B:115:ILE:O	19:B:809:CLA:HMD3	2.20	0.41
6:B:124:TRP:HB3	6:B:129:LEU:HD12	2.02	0.41
6:B:707:LEU:HD23	26:B:854:DGD:HA21	2.02	0.41
13:I:14:LEU:C	13:I:17:PRO:HD2	2.41	0.41
21:2:517:LHG:H122	21:2:517:LHG:HC92	1.76	0.41
3:3:186:TYR:CZ	3:3:188:LEU:HA	2.56	0.41
17:3:302:LUT:H35	17:3:302:LUT:H401	1.94	0.41
19:4:304:CLA:H92	19:4:304:CLA:H61	1.83	0.41
19:A:812:CLA:HED2	19:A:813:CLA:HBC1	2.03	0.41
6:B:355:LEU:HD13	19:B:818:CLA:HAA1	2.03	0.41
19:B:836:CLA:H111	19:F:302:CLA:H191	2.02	0.41
7:C:36:ALA:O	7:C:38:GLN:HG2	2.20	0.41
19:J:1101:CLA:H143	17:J:1109:LUT:H34	2.03	0.41
3:3:213:PHE:HB2	19:3:305:CLA:CBA	2.49	0.41
5:A:127:VAL:HG22	19:B:832:CLA:OBD	2.20	0.41
5:A:19:LYS:HD2	5:A:21:LEU:HD21	2.01	0.41
19:A:823:CLA:O1A	19:K:1003:CLA:HHD	2.20	0.41
6:B:685:THR:OG1	19:L:301:CLA:HMA1	2.19	0.41
19:B:808:CLA:H91	19:B:808:CLA:H112	1.70	0.41
19:B:820:CLA:H172	19:B:823:CLA:H92	2.01	0.41
19:B:829:CLA:C3D	26:B:854:DGD:HB62	2.51	0.41
19:F:302:CLA:H112	19:F:302:CLA:H152	1.82	0.41
19:1:507:CLA:H162	19:1:507:CLA:H203	1.74	0.41
1:1:111:TRP:CZ2	19:1:515:CLA:HAC1	2.56	0.41
20:1:521:CHL:OBD	4:4:155:ARG:NH1	2.54	0.41
5:A:629:ASN:ND2	5:A:633:VAL:HB	2.34	0.41
19:A:813:CLA:H141	19:A:813:CLA:H161	1.82	0.41
29:A:844:PQN:H2M1	29:A:844:PQN:H111	1.88	0.41
6:B:262:HIS:CE1	6:B:264:GLN:HB3	2.54	0.41
6:B:334:LEU:HD23	6:B:389:HIS:CE1	2.56	0.41
6:B:411:MET:HE1	19:B:830:CLA:C1D	2.50	0.41
19:B:810:CLA:H43	18:I:101:BCR:C22	2.51	0.41
22:B:845:LMG:H112	22:B:845:LMG:HC8	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:F:301:ZEX:H401	30:F:301:ZEX:H31	1.85	0.41
1:1:78:GLU:CD	1:1:158:LYS:HE3	2.41	0.41
17:3:301:LUT:H32	19:3:305:CLA:CBB	2.32	0.41
3:3:188:LEU:HD12	18:3:303:BCR:H343	2.02	0.41
4:4:212:MET:HG2	23:4:303:XAT:C15	2.51	0.41
19:4:307:CLA:HMD2	19:4:312:CLA:HBB1	2.03	0.41
5:A:222:GLN:NE2	19:A:819:CLA:O1D	2.54	0.41
5:A:232:PHE:CD2	5:A:243:PRO:HD2	2.56	0.41
19:A:802:CLA:H71	19:A:841:CLA:CMC	2.50	0.41
19:A:818:CLA:HBA2	19:A:818:CLA:H3A	1.43	0.41
19:A:819:CLA:H71	19:A:819:CLA:C3B	2.50	0.41
6:B:200:PRO:HB3	6:B:205:GLU:HB2	2.02	0.41
6:B:73:ASN:ND2	6:B:87:ILE:HG13	2.36	0.41
26:J:1106:DGD:HB31	26:J:1106:DGD:HB62	1.80	0.41
16:L:199:TRP:CG	18:L:306:BCR:H10C	2.56	0.41
17:2:501:LUT:C31	19:2:505:CLA:HMC2	2.51	0.41
2:2:196:PRO:HB3	20:2:513:CHL:HBC2	2.01	0.41
19:3:308:CLA:H62	19:3:308:CLA:H41	1.55	0.41
19:4:309:CLA:H12	20:4:316:CHL:C3D	2.51	0.41
23:4:303:XAT:H162	20:4:316:CHL:CBB	2.50	0.41
5:A:687:ALA:HB3	19:A:802:CLA:HBB2	2.02	0.41
5:A:98:PHE:CG	19:A:807:CLA:HBC3	2.55	0.41
5:A:310:PHE:CZ	19:A:819:CLA:H142	2.55	0.41
19:A:826:CLA:H62	19:A:826:CLA:H41	1.78	0.41
19:A:842:CLA:H8	19:A:842:CLA:H51	1.93	0.41
18:A:856:BCR:C18	15:K:108:VAL:HG11	2.50	0.41
6:B:258:LEU:HD12	6:B:269:TRP:CG	2.55	0.41
6:B:273:MET:O	6:B:277:HIS:ND1	2.53	0.41
6:B:53:GLN:HG2	19:B:806:CLA:CMA	2.51	0.41
6:B:594:TRP:HB2	19:B:835:CLA:HMC1	2.02	0.41
19:B:830:CLA:HAB	19:B:837:CLA:CBB	2.51	0.41
16:L:204:LEU:HD23	16:L:205:TYR:CE1	2.56	0.41
2:2:102:ASN:C	19:2:507:CLA:HMA1	2.41	0.41
18:2:503:BCR:HC7	18:2:503:BCR:H331	1.85	0.41
3:3:166:GLY:C	3:3:170:HIS:HD1	2.20	0.41
21:2:517:LHG:HC42	18:3:303:BCR:HC31	2.03	0.41
20:2:526:CHL:H3A	19:3:317:CLA:O1D	2.21	0.41
6:B:498:LEU:HA	6:B:501:ILE:HG22	2.02	0.41
19:B:836:CLA:H162	19:B:836:CLA:H193	1.89	0.41
12:H:82:GLN:O	12:H:85:PHE:HB3	2.21	0.41
13:I:26:LEU:O	13:I:30:LYS:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:120:ILE:HG22	2:2:121:PHE:CD1	2.56	0.41
18:3:304:BCR:H351	18:3:304:BCR:H15C	1.80	0.41
3:3:255:ASN:ND2	19:3:307:CLA:O1D	2.47	0.41
3:3:93:ILE:HG22	3:3:93:ILE:O	2.21	0.41
19:A:817:CLA:H112	19:A:817:CLA:H142	1.72	0.41
19:A:837:CLA:H102	19:A:837:CLA:H13	1.92	0.41
19:A:840:CLA:H121	19:A:840:CLA:H161	1.91	0.41
19:B:815:CLA:H2	18:B:851:BCR:H362	2.03	0.41
19:B:823:CLA:H61	19:B:823:CLA:H93	1.69	0.41
19:B:819:CLA:H93	19:B:824:CLA:H42	2.03	0.41
19:A:841:CLA:H12	19:J:1101:CLA:O1A	2.21	0.41
16:L:111:VAL:HG21	16:L:200:ALA:HB3	2.03	0.41
1:1:112:ALA:HB1	1:1:131:LEU:HD22	2.03	0.41
1:1:225:THR:HG22	1:1:226:ILE:N	2.36	0.41
18:2:503:BCR:HC32	26:4:319:DGD:O2E	2.21	0.41
21:2:517:LHG:HC42	18:3:303:BCR:C2	2.50	0.41
3:3:173:PHE:CD1	19:3:315:CLA:HMA2	2.55	0.41
4:4:177:LEU:HD11	4:4:189:PHE:HE2	1.86	0.41
18:4:301:BCR:H271	19:4:309:CLA:NB	2.36	0.41
19:4:315:CLA:H203	19:4:315:CLA:H162	1.80	0.41
5:A:377:TYR:OH	19:A:836:CLA:HBC3	2.21	0.41
19:A:827:CLA:CAB	19:A:834:CLA:HMA2	2.51	0.41
5:A:716:VAL:HG21	19:A:839:CLA:HMB3	2.02	0.41
6:B:59:LEU:HG	19:B:808:CLA:CBB	2.50	0.41
19:B:820:CLA:H161	19:B:820:CLA:H203	1.73	0.41
19:B:825:CLA:H93	19:B:825:CLA:H61	1.72	0.41
8:D:79:THR:HG23	8:D:127:PRO:HB2	2.03	0.41
16:L:115:VAL:HG13	16:L:127:GLY:O	2.21	0.41
19:1:508:CLA:CBC	20:1:514:CHL:HAC1	2.52	0.40
19:1:508:CLA:HBD	20:1:514:CHL:HBD	2.03	0.40
3:3:226:LYS:HD3	19:3:306:CLA:HAA2	2.02	0.40
19:3:308:CLA:H112	19:3:308:CLA:H143	1.82	0.40
4:4:244:THR:HB	4:4:247:GLN:OE1	2.21	0.40
5:A:502:THR:OG1	5:A:503:THR:N	2.51	0.40
5:A:545:HIS:HE1	5:A:615:HIS:CD2	2.38	0.40
19:A:805:CLA:H202	19:A:805:CLA:H162	1.76	0.40
19:A:824:CLA:HHB	19:A:842:CLA:HAB	2.02	0.40
19:B:809:CLA:H142	19:B:809:CLA:H111	1.87	0.40
19:B:820:CLA:HMD3	19:G:201:CLA:HMC3	2.03	0.40
19:F:303:CLA:ND	22:F:304:LMG:H302	2.36	0.40
19:J:1101:CLA:H162	19:J:1101:CLA:H122	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1:501:LUT:H401	17:1:501:LUT:H35	1.94	0.40
19:1:504:CLA:H111	19:1:504:CLA:H93	1.72	0.40
19:3:305:CLA:HBA2	19:3:305:CLA:H3A	1.40	0.40
4:4:175:TYR:CD2	20:4:317:CHL:HAA2	2.55	0.40
19:4:318:CLA:H161	19:4:318:CLA:H203	1.85	0.40
19:A:804:CLA:H143	19:A:804:CLA:H161	1.79	0.40
19:A:822:CLA:H72	19:A:823:CLA:C1B	2.51	0.40
6:B:300:SER:H	11:G:90:GLN:HE21	1.68	0.40
6:B:411:MET:CA	6:B:411:MET:HE2	2.51	0.40
6:B:295:PHE:HE2	19:B:813:CLA:HMA1	1.86	0.40
11:G:86:ASN:HB3	19:G:201:CLA:HED1	2.03	0.40
19:K:1002:CLA:H61	19:K:1002:CLA:H41	1.47	0.40
6:B:684:ARG:NE	16:L:68:SER:HB2	2.36	0.40
1:1:145:VAL:O	1:1:148:GLN:HB2	2.22	0.40
2:2:156:GLU:O	2:2:160:ILE:HB	2.22	0.40
2:2:170:ASP:HB2	2:2:177:VAL:HG11	2.03	0.40
19:2:510:CLA:H92	19:2:510:CLA:H62	1.85	0.40
19:A:808:CLA:H92	19:A:808:CLA:H62	1.85	0.40
5:A:602:LEU:HD21	19:A:830:CLA:HBC1	2.04	0.40
5:A:496:HIS:CE1	19:A:834:CLA:NA	2.89	0.40
19:A:839:CLA:HMA2	19:B:831:CLA:HMB3	2.03	0.40
22:A:847:LMG:H352	22:A:847:LMG:H321	1.68	0.40
19:B:814:CLA:C14	19:B:819:CLA:H2	2.50	0.40
19:B:833:CLA:HBB1	19:B:833:CLA:HMB1	2.02	0.40
12:H:94:THR:HG21	16:L:96:LEU:HD12	2.03	0.40
20:1:512:CHL:OMC	19:1:515:CLA:HAB	2.21	0.40
2:2:105:ALA:O	2:2:109:HIS:HD2	2.04	0.40
19:4:306:CLA:H72	19:4:306:CLA:CHC	2.51	0.40
19:4:310:CLA:H102	19:4:310:CLA:H62	1.82	0.40
19:4:307:CLA:HMD2	19:4:312:CLA:CBB	2.52	0.40
22:4:322:LMG:C35	22:4:322:LMG:H152	2.49	0.40
5:A:110:LEU:HD12	5:A:154:ARG:HH11	1.87	0.40
5:A:270:PHE:O	19:K:1001:CLA:HHD	2.22	0.40
5:A:648:THR:HG23	5:A:651:GLY:N	2.32	0.40
19:A:833:CLA:H141	19:A:833:CLA:H161	1.69	0.40
6:B:319:HIS:HB3	6:B:322:LEU:HD12	2.04	0.40
19:B:805:CLA:H162	19:B:805:CLA:H141	1.75	0.40
19:B:811:CLA:H51	19:B:811:CLA:H11	1.89	0.40
24:B:847:LMT:H51	19:F:303:CLA:HMC3	2.03	0.40
19:1:508:CLA:H11	19:B:840:CLA:HAB	2.04	0.40
19:1:504:CLA:HAC1	19:1:513:CLA:O1A	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:223:LEU:HA	3:3:226:LYS:HD2	2.03	0.40
3:3:88:GLY:HA3	5:A:21:LEU:HA	2.02	0.40
5:A:492:ILE:HD12	19:A:836:CLA:HBA1	2.04	0.40
19:A:854:CLA:H43	6:B:441:ASP:HB3	2.04	0.40
6:B:477:LEU:H	6:B:477:LEU:HG	1.68	0.40
26:B:801:DGD:HE2	26:B:801:DGD:HD62	1.78	0.40
19:B:839:CLA:H122	19:B:839:CLA:H162	1.81	0.40
19:B:825:CLA:CMA	18:B:853:BCR:H14C	2.51	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	191/193 (99%)	184 (96%)	6 (3%)	1 (0%)	29	52
2	2	206/269 (77%)	196 (95%)	9 (4%)	1 (0%)	29	52
3	3	219/275 (80%)	207 (94%)	12 (6%)	0	100	100
4	4	196/198 (99%)	194 (99%)	2 (1%)	0	100	100
5	A	741/758 (98%)	710 (96%)	30 (4%)	1 (0%)	51	75
6	B	731/734 (100%)	710 (97%)	18 (2%)	3 (0%)	34	57
7	C	78/81 (96%)	76 (97%)	2 (3%)	0	100	100
8	D	141/143 (99%)	135 (96%)	6 (4%)	0	100	100
9	E	64/66 (97%)	60 (94%)	4 (6%)	0	100	100
10	F	152/154 (99%)	149 (98%)	3 (2%)	0	100	100
11	G	95/97 (98%)	93 (98%)	2 (2%)	0	100	100
12	H	86/88 (98%)	81 (94%)	5 (6%)	0	100	100
13	I	28/40 (70%)	27 (96%)	1 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	J	40/42 (95%)	37 (92%)	3 (8%)	0	100	100
15	K	73/80 (91%)	67 (92%)	6 (8%)	0	100	100
16	L	155/157 (99%)	149 (96%)	6 (4%)	0	100	100
All	All	3196/3375 (95%)	3075 (96%)	115 (4%)	6 (0%)	47	71

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1	172	LYS
6	B	222	LEU
6	B	559	CYS
2	2	260	ALA
6	B	492	ILE
5	A	342	GLY

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	158/158 (100%)	156 (99%)	2 (1%)	69	86
2	2	167/216 (77%)	167 (100%)	0	100	100
3	3	169/213 (79%)	168 (99%)	1 (1%)	86	95
4	4	164/164 (100%)	164 (100%)	0	100	100
5	A	604/618 (98%)	599 (99%)	5 (1%)	81	92
6	B	598/599 (100%)	589 (98%)	9 (2%)	65	83
7	C	69/70 (99%)	67 (97%)	2 (3%)	42	68
8	D	122/122 (100%)	122 (100%)	0	100	100
9	E	58/58 (100%)	58 (100%)	0	100	100
10	F	126/127 (99%)	126 (100%)	0	100	100
11	G	82/82 (100%)	80 (98%)	2 (2%)	49	74
12	H	71/71 (100%)	71 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	I	26/36 (72%)	26 (100%)	0	100	100
14	J	35/35 (100%)	35 (100%)	0	100	100
15	K	51/58 (88%)	51 (100%)	0	100	100
16	L	124/124 (100%)	124 (100%)	0	100	100
All	All	2624/2751 (95%)	2603 (99%)	21 (1%)	81	92

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1	75	ARG
1	1	114	LEU
3	3	256	LEU
5	A	331	LEU
5	A	377	TYR
5	A	590	CYS
5	A	605	MET
5	A	618	TRP
6	B	157	LEU
6	B	332	PHE
6	B	441	ASP
6	B	444	LEU
6	B	477	LEU
6	B	482	ASN
6	B	568	CYS
6	B	577	TYR
6	B	583	MET
7	C	65	VAL
7	C	66	ARG
11	G	83	GLN
11	G	121	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (26) such sidechains are listed below:

Mol	Chain	Res	Type
2	2	109	HIS
2	2	249	ASN
3	3	267	ASN
4	4	74	ASN
5	A	222	GLN
5	A	273	ASN

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Mol	Chain	Res	Type
5	A	301	HIS
5	A	303	HIS
5	A	445	HIS
5	A	496	HIS
5	A	545	HIS
5	A	550	HIS
5	A	615	HIS
5	A	721	GLN
6	B	196	HIS
6	B	231	ASN
6	B	350	GLN
6	B	452	GLN
6	B	467	HIS
8	D	168	HIS
9	E	119	ASN
10	F	154	GLN
10	F	193	GLN
11	G	95	GLN
12	H	130	GLN
15	K	52	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 242 ligands modelled in this entry, 2 are monoatomic - leaving 240 for Mogul analysis.

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
19	CLA	A	840	31	59,73,73	1.24	5 (8%)	67,113,113	1.72	7 (10%)
19	CLA	3	308	-	59,73,73	1.28	6 (10%)	67,113,113	1.75	9 (13%)
19	CLA	4	309	-	44,58,73	1.45	7 (15%)	49,95,113	1.99	7 (14%)
26	DGD	B	801	-	42,42,67	0.61	0	56,56,81	1.16	6 (10%)
18	BCR	B	802	-	41,41,41	0.68	0	56,56,56	4.02	18 (32%)
19	CLA	A	838	-	59,73,73	1.30	7 (11%)	67,113,113	1.60	6 (8%)
18	BCR	A	849	-	41,41,41	0.63	0	56,56,56	3.28	16 (28%)
20	CHL	1	514	1	55,69,74	0.87	2 (3%)	58,108,114	1.35	11 (18%)
19	CLA	B	821	-	40,54,73	1.57	7 (17%)	44,90,113	1.87	5 (11%)
24	LMT	3	318	-	32,32,36	1.17	5 (15%)	43,43,47	1.19	5 (11%)
19	CLA	3	306	-	46,60,73	1.47	7 (15%)	51,97,113	1.81	6 (11%)
19	CLA	A	808	5	59,73,73	1.25	4 (6%)	67,113,113	1.74	5 (7%)
19	CLA	B	815	-	59,73,73	1.26	5 (8%)	67,113,113	1.76	6 (8%)
19	CLA	B	824	31	59,73,73	1.26	7 (11%)	67,113,113	1.84	9 (13%)
19	CLA	L	304	-	54,68,73	1.33	5 (9%)	61,107,113	1.73	7 (11%)
19	CLA	A	821	-	59,73,73	1.26	5 (8%)	67,113,113	1.57	8 (11%)
20	CHL	2	516	2	50,64,74	0.92	3 (6%)	52,102,114	1.36	10 (19%)
18	BCR	4	301	-	41,41,41	0.65	0	56,56,56	3.34	15 (26%)
19	CLA	A	810	-	44,58,73	1.49	8 (18%)	49,95,113	1.87	4 (8%)
19	CLA	1	516	1	54,68,73	1.36	7 (12%)	61,107,113	1.71	7 (11%)
19	CLA	B	834	31	49,63,73	1.44	7 (14%)	55,101,113	1.64	6 (10%)
19	CLA	A	832	-	59,73,73	1.29	6 (10%)	67,113,113	1.58	5 (7%)
18	BCR	B	850	-	41,41,41	0.66	0	56,56,56	3.01	11 (19%)
19	CLA	A	805	-	59,73,73	1.30	7 (11%)	67,113,113	1.60	4 (5%)
19	CLA	B	808	-	59,73,73	1.30	7 (11%)	67,113,113	1.55	5 (7%)
19	CLA	A	804	-	59,73,73	1.27	8 (13%)	67,113,113	1.68	5 (7%)
19	CLA	B	833	-	54,68,73	1.30	5 (9%)	61,107,113	1.66	6 (9%)
19	CLA	J	1102	31	36,53,73	1.59	6 (16%)	39,89,113	1.94	5 (12%)
20	CHL	2	513	-	42,56,74	1.08	4 (9%)	42,92,114	1.35	8 (19%)
18	BCR	A	848	-	41,41,41	0.63	0	56,56,56	3.27	18 (32%)
20	CHL	1	512	-	41,55,74	1.02	3 (7%)	41,91,114	1.47	11 (26%)
18	BCR	2	503	-	41,41,41	0.86	0	56,56,56	3.25	14 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	LMG	2	522	-	13,13,55	0.58	0	18,18,63	0.63	0
19	CLA	G	201	-	59,73,73	1.30	6 (10%)	67,113,113	1.69	8 (11%)
22	LMG	F	305	-	36,36,55	0.72	1 (2%)	44,44,63	1.10	2 (4%)
19	CLA	K	1002	-	54,68,73	1.36	8 (14%)	61,107,113	1.72	7 (11%)
19	CLA	2	510	21	54,68,73	1.33	6 (11%)	61,107,113	1.78	8 (13%)
19	CLA	B	830	-	59,73,73	1.27	7 (11%)	67,113,113	1.66	8 (11%)
19	CLA	3	315	3	44,58,73	1.45	4 (9%)	49,95,113	1.95	7 (14%)
19	CLA	G	204	31	59,73,73	1.28	9 (15%)	67,113,113	1.62	7 (10%)
22	LMG	2	525	-	13,13,55	0.62	0	18,18,63	0.70	0
18	BCR	I	102	-	41,41,41	0.65	0	56,56,56	3.13	13 (23%)
19	CLA	B	820	31	59,73,73	1.29	7 (11%)	67,113,113	1.57	8 (11%)
19	CLA	A	825	31	59,73,73	1.30	8 (13%)	67,113,113	1.80	12 (17%)
19	CLA	3	316	-	40,54,73	1.55	8 (20%)	44,90,113	1.89	6 (13%)
19	CLA	3	313	3	54,68,73	1.33	6 (11%)	61,107,113	1.74	7 (11%)
29	PQN	A	844	-	34,34,34	0.39	0	42,45,45	1.25	5 (11%)
19	CLA	2	508	-	49,63,73	1.37	6 (12%)	55,101,113	1.89	10 (18%)
19	CLA	B	826	-	59,73,73	1.27	6 (10%)	67,113,113	1.71	8 (11%)
19	CLA	4	306	-	59,73,73	1.29	6 (10%)	67,113,113	1.66	8 (11%)
19	CLA	B	837	-	44,58,73	1.44	6 (13%)	49,95,113	1.81	7 (14%)
19	CLA	B	816	-	49,63,73	1.41	7 (14%)	55,101,113	1.83	5 (9%)
17	LUT	3	302	-	42,43,43	2.31	1 (2%)	51,60,60	1.61	13 (25%)
19	CLA	A	827	-	59,73,73	1.27	7 (11%)	67,113,113	1.66	7 (10%)
19	CLA	A	833	-	59,73,73	1.28	7 (11%)	67,113,113	1.65	8 (11%)
22	LMG	4	322	-	45,45,55	0.93	3 (6%)	53,53,63	1.08	4 (7%)
19	CLA	1	508	-	59,73,73	1.28	7 (11%)	67,113,113	1.74	9 (13%)
19	CLA	4	305	4	44,58,73	1.52	8 (18%)	49,95,113	1.94	10 (20%)
18	BCR	1	503	-	19,19,41	0.66	0	26,26,56	3.15	7 (26%)
28	SF4	C	101	7	0,12,12	0.00	-	-	-	-
21	LHG	2	517	19	34,34,48	0.46	0	37,40,54	1.07	2 (5%)
20	CHL	2	515	-	37,54,74	1.05	2 (5%)	36,90,114	1.47	10 (27%)
19	CLA	B	817	-	54,68,73	1.36	7 (12%)	61,107,113	1.77	7 (11%)
19	CLA	A	839	-	59,73,73	1.26	5 (8%)	67,113,113	1.61	6 (8%)
21	LHG	A	845	19	39,39,48	0.42	0	42,45,54	1.25	4 (9%)
22	LMG	B	845	-	33,33,55	0.57	1 (3%)	41,41,63	1.24	5 (12%)
17	LUT	1	502	-	42,43,43	2.37	1 (2%)	51,60,60	1.81	9 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	LMT	J	1107	-	26,26,36	1.34	5 (19%)	37,37,47	1.08	2 (5%)
19	CLA	3	312	-	42,56,73	1.53	8 (19%)	46,92,113	1.94	6 (13%)
24	LMT	B	846	-	36,36,36	1.14	6 (16%)	47,47,47	1.04	3 (6%)
17	LUT	4	302	-	42,43,43	2.46	1 (2%)	51,60,60	1.92	12 (23%)
18	BCR	K	1005	-	41,41,41	0.67	0	56,56,56	3.18	13 (23%)
20	CHL	4	314	31	45,59,74	1.13	4 (8%)	46,96,114	1.67	12 (26%)
19	CLA	4	310	-	54,68,73	1.37	8 (14%)	61,107,113	1.66	6 (9%)
19	CLA	A	854	31	59,73,73	1.24	6 (10%)	67,113,113	1.78	11 (16%)
24	LMT	B	847	-	33,33,36	1.22	5 (15%)	44,44,47	0.96	1 (2%)
19	CLA	4	315	4	59,73,73	1.27	6 (10%)	67,113,113	1.66	7 (10%)
19	CLA	A	823	-	54,68,73	1.38	8 (14%)	61,107,113	1.64	7 (11%)
19	CLA	B	823	-	49,63,73	1.41	7 (14%)	55,101,113	1.71	4 (7%)
19	CLA	L	305	31	44,58,73	1.52	9 (20%)	49,95,113	1.80	6 (12%)
19	CLA	A	822	-	54,68,73	1.37	7 (12%)	61,107,113	1.65	6 (9%)
22	LMG	2	520	-	13,13,55	0.59	0	18,18,63	0.87	1 (5%)
19	CLA	G	203	11	40,54,73	1.54	7 (17%)	44,90,113	1.85	7 (15%)
19	CLA	A	813	-	59,73,73	1.25	6 (10%)	67,113,113	1.67	7 (10%)
22	LMG	2	519	-	36,36,55	0.66	1 (2%)	44,44,63	1.24	7 (15%)
18	BCR	F	306	-	41,41,41	0.65	0	56,56,56	3.05	8 (14%)
19	CLA	A	835	5	49,63,73	1.43	8 (16%)	55,101,113	1.75	7 (12%)
19	CLA	3	310	31	44,58,73	1.47	7 (15%)	49,95,113	2.11	4 (8%)
19	CLA	B	828	-	59,73,73	1.26	6 (10%)	67,113,113	1.65	5 (7%)
19	CLA	B	822	-	59,73,73	1.30	7 (11%)	67,113,113	1.69	8 (11%)
27	CL0	A	801	-	59,73,73	1.63	8 (13%)	67,113,113	2.05	11 (16%)
22	LMG	F	304	-	47,47,55	0.97	4 (8%)	55,55,63	1.09	2 (3%)
20	CHL	4	317	4	37,51,74	1.12	4 (10%)	36,86,114	1.60	9 (25%)
19	CLA	3	311	-	35,49,73	1.67	7 (20%)	38,84,113	1.91	7 (18%)
18	BCR	B	849	-	41,41,41	0.79	0	56,56,56	3.73	20 (35%)
19	CLA	B	806	-	59,73,73	1.27	6 (10%)	67,113,113	1.62	6 (8%)
19	CLA	B	839	-	59,73,73	1.31	6 (10%)	67,113,113	1.58	5 (7%)
19	CLA	B	836	-	59,73,73	1.27	6 (10%)	67,113,113	1.56	5 (7%)
19	CLA	A	830	-	59,73,73	1.26	7 (11%)	67,113,113	1.70	8 (11%)
19	CLA	B	840	21	59,73,73	1.29	6 (10%)	67,113,113	1.59	5 (7%)
19	CLA	A	814	-	59,73,73	1.28	8 (13%)	67,113,113	1.73	9 (13%)
19	CLA	B	810	6	59,73,73	1.26	5 (8%)	67,113,113	1.74	7 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
19	CLA	G	202	-	49,63,73	1.43	8 (16%)	55,101,113	1.74	7 (12%)
19	CLA	B	825	31	59,73,73	1.26	5 (8%)	67,113,113	1.78	11 (16%)
19	CLA	1	504	1	59,73,73	1.27	6 (10%)	67,113,113	1.73	9 (13%)
21	LHG	A	853	-	48,48,48	0.40	0	51,54,54	1.04	3 (5%)
21	LHG	B	842	19	20,20,48	0.59	0	23,26,54	1.55	3 (13%)
20	CHL	1	521	1	50,64,74	0.94	4 (8%)	52,102,114	1.36	10 (19%)
19	CLA	A	806	5	59,73,73	1.26	6 (10%)	67,113,113	1.68	7 (10%)
19	CLA	4	308	4	54,68,73	1.31	4 (7%)	61,107,113	1.88	9 (14%)
29	PQN	B	841	-	34,34,34	0.37	0	42,45,45	1.14	3 (7%)
19	CLA	A	855	-	59,73,73	1.26	7 (11%)	67,113,113	1.67	6 (8%)
19	CLA	A	826	31	49,63,73	1.41	7 (14%)	55,101,113	1.78	7 (12%)
22	LMG	2	524	-	13,13,55	0.56	0	18,18,63	0.81	0
20	CHL	4	316	-	55,69,74	0.99	4 (7%)	58,108,114	1.27	10 (17%)
24	LMT	B	855	-	32,32,36	1.25	6 (18%)	43,43,47	0.97	2 (4%)
19	CLA	3	309	-	49,63,73	1.44	8 (16%)	55,101,113	1.83	8 (14%)
18	BCR	L	306	-	41,41,41	0.67	0	56,56,56	3.01	13 (23%)
26	DGD	4	319	-	52,52,67	0.73	2 (3%)	66,66,81	1.44	9 (13%)
18	BCR	B	856	-	41,41,41	0.66	0	56,56,56	3.05	13 (23%)
22	LMG	G	206	-	50,50,55	1.05	4 (8%)	58,58,63	1.07	3 (5%)
19	CLA	B	819	-	59,73,73	1.26	6 (10%)	67,113,113	1.66	7 (10%)
28	SF4	A	843	5,6	0,12,12	0.00	-	-	-	-
19	CLA	J	1101	-	59,73,73	1.25	6 (10%)	67,113,113	1.81	11 (16%)
19	CLA	K	1004	-	23,35,73	2.73	8 (34%)	26,60,113	2.42	7 (26%)
19	CLA	A	802	-	59,73,73	1.22	5 (8%)	67,113,113	1.79	13 (19%)
19	CLA	1	515	-	36,53,73	1.66	8 (22%)	39,89,113	1.76	4 (10%)
23	XAT	4	303	-	39,47,47	0.64	0	54,74,74	2.45	13 (24%)
26	DGD	J	1106	-	59,59,67	0.92	4 (6%)	73,73,81	1.06	5 (6%)
22	LMG	2	518	-	25,25,55	0.59	0	33,33,63	1.13	3 (9%)
18	BCR	G	205	-	41,41,41	0.73	0	56,56,56	3.09	11 (19%)
18	BCR	3	303	-	41,41,41	0.65	0	56,56,56	3.22	12 (21%)
19	CLA	4	312	4	44,58,73	1.49	7 (15%)	49,95,113	1.88	9 (18%)
26	DGD	G	207	-	48,48,67	0.59	1 (2%)	62,62,81	1.07	3 (4%)
26	DGD	B	854	-	62,62,67	0.97	5 (8%)	76,76,81	1.00	3 (3%)
19	CLA	B	838	31	59,73,73	1.30	7 (11%)	67,113,113	1.58	6 (8%)
19	CLA	2	505	2	46,60,73	1.47	9 (19%)	51,97,113	1.82	6 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
19	CLA	1	509	-	44,58,73	1.48	7 (15%)	49,95,113	1.91	9 (18%)
19	CLA	2	509	-	44,58,73	1.46	5 (11%)	49,95,113	1.82	7 (14%)
18	BCR	A	852	-	41,41,41	0.63	0	56,56,56	2.90	14 (25%)
19	CLA	A	828	-	59,73,73	1.26	6 (10%)	67,113,113	1.78	5 (7%)
19	CLA	B	831	-	54,68,73	1.33	6 (11%)	61,107,113	1.66	7 (11%)
19	CLA	3	305	-	49,63,73	1.41	6 (12%)	55,101,113	1.97	8 (14%)
19	CLA	1	513	-	59,73,73	1.28	7 (11%)	67,113,113	1.64	8 (11%)
24	LMT	G	208	-	36,36,36	1.15	5 (13%)	47,47,47	0.98	2 (4%)
19	CLA	A	834	-	59,73,73	1.27	6 (10%)	67,113,113	1.62	5 (7%)
19	CLA	K	1003	-	23,35,73	2.72	8 (34%)	26,60,113	2.52	8 (30%)
19	CLA	A	815	-	36,53,73	1.65	8 (22%)	39,89,113	1.86	7 (17%)
19	CLA	B	813	-	40,54,73	1.55	6 (15%)	44,90,113	1.91	7 (15%)
22	LMG	A	847	-	50,50,55	1.03	5 (10%)	58,58,63	0.98	2 (3%)
22	LMG	J	1103	-	30,30,55	0.51	0	38,38,63	1.08	2 (5%)
19	CLA	L	301	-	49,63,73	1.41	7 (14%)	55,101,113	1.83	7 (12%)
19	CLA	B	805	-	59,73,73	1.29	7 (11%)	67,113,113	1.61	4 (5%)
18	BCR	B	851	-	41,41,41	0.66	0	56,56,56	2.67	15 (26%)
19	CLA	A	812	-	49,63,73	1.43	7 (14%)	55,101,113	1.79	7 (12%)
19	CLA	F	303	10	59,73,73	1.29	6 (10%)	67,113,113	1.58	5 (7%)
18	BCR	J	1108	-	41,41,41	0.60	0	56,56,56	2.87	15 (26%)
22	LMG	4	321	-	13,13,55	0.57	0	18,18,63	0.68	0
19	CLA	3	307	-	49,63,73	1.43	7 (14%)	55,101,113	1.85	9 (16%)
23	XAT	2	502	-	39,47,47	0.62	0	54,74,74	1.72	11 (20%)
18	BCR	A	856	-	41,41,41	0.67	0	56,56,56	3.27	15 (26%)
19	CLA	4	304	4	54,68,73	1.34	6 (11%)	61,107,113	2.00	11 (18%)
19	CLA	B	804	-	59,73,73	1.27	5 (8%)	67,113,113	1.87	11 (16%)
18	BCR	L	307	-	41,41,41	0.69	0	56,56,56	3.34	11 (19%)
19	CLA	A	811	-	59,73,73	1.28	6 (10%)	67,113,113	1.70	6 (8%)
19	CLA	4	318	-	59,73,73	1.25	6 (10%)	67,113,113	1.67	6 (8%)
18	BCR	L	302	-	41,41,41	0.84	0	56,56,56	3.17	15 (26%)
19	CLA	1	506	-	49,63,73	1.40	7 (14%)	55,101,113	1.86	7 (12%)
19	CLA	A	841	-	59,73,73	1.32	6 (10%)	67,113,113	1.59	6 (8%)
24	LMT	G	209	-	32,32,36	1.23	6 (18%)	43,43,47	0.97	1 (2%)
28	SF4	C	102	7	0,12,12	0.00	-	-	-	-
19	CLA	F	302	-	59,73,73	1.31	6 (10%)	67,113,113	1.68	9 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	LMG	B	844	-	35,35,55	0.74	1 (2%)	43,43,63	1.08	3 (6%)
18	BCR	3	304	-	41,41,41	0.69	0	56,56,56	3.40	14 (25%)
19	CLA	A	820	-	44,58,73	1.48	7 (15%)	49,95,113	1.89	7 (14%)
17	LUT	2	501	-	42,43,43	2.35	1 (2%)	51,60,60	1.78	9 (17%)
19	CLA	A	816	-	40,54,73	1.56	7 (17%)	44,90,113	1.86	4 (9%)
19	CLA	A	837	-	59,73,73	1.30	8 (13%)	67,113,113	1.58	5 (7%)
19	CLA	A	817	-	59,73,73	1.28	6 (10%)	67,113,113	1.58	5 (7%)
19	CLA	B	812	-	54,68,73	1.38	7 (12%)	61,107,113	1.54	4 (6%)
18	BCR	I	101	-	41,41,41	0.73	0	56,56,56	3.50	16 (28%)
19	CLA	B	807	6	59,73,73	1.26	6 (10%)	67,113,113	1.64	5 (7%)
19	CLA	1	510	-	40,54,73	1.54	5 (12%)	44,90,113	2.43	10 (22%)
17	LUT	1	501	-	42,43,43	2.39	1 (2%)	51,60,60	1.69	10 (19%)
19	CLA	A	836	-	45,59,73	1.46	6 (13%)	50,96,113	1.89	8 (16%)
19	CLA	B	818	-	59,73,73	1.30	8 (13%)	67,113,113	1.60	7 (10%)
20	CHL	2	512	-	41,55,74	1.16	4 (9%)	41,91,114	1.74	11 (26%)
21	LHG	1	520	-	41,41,48	0.45	0	44,47,54	1.15	4 (9%)
19	CLA	A	809	5	59,73,73	1.24	5 (8%)	67,113,113	1.74	9 (13%)
19	CLA	A	824	-	59,73,73	1.29	7 (11%)	67,113,113	1.56	5 (7%)
19	CLA	2	506	-	59,73,73	1.29	7 (11%)	67,113,113	1.80	8 (11%)
20	CHL	3	314	-	41,55,74	1.06	4 (9%)	41,91,114	1.53	9 (21%)
22	LMG	G	210	-	25,25,55	0.54	0	33,33,63	1.29	4 (12%)
19	CLA	1	511	-	40,54,73	1.55	6 (15%)	44,90,113	1.77	5 (11%)
24	LMT	2	523	-	36,36,36	1.13	5 (13%)	47,47,47	1.00	2 (4%)
19	CLA	K	1001	-	36,53,73	1.64	6 (16%)	39,89,113	1.96	8 (20%)
19	CLA	1	507	1	59,73,73	1.27	6 (10%)	67,113,113	1.65	7 (10%)
18	BCR	B	852	-	41,41,41	0.61	0	56,56,56	2.95	14 (25%)
19	CLA	A	807	-	54,68,73	1.35	5 (9%)	61,107,113	1.75	6 (9%)
19	CLA	B	803	-	59,73,73	1.24	4 (6%)	67,113,113	1.68	5 (7%)
20	CHL	2	526	2	60,74,74	0.86	3 (5%)	64,114,114	1.23	11 (17%)
19	CLA	A	819	-	59,73,73	1.27	6 (10%)	67,113,113	1.63	8 (11%)
19	CLA	J	1105	-	44,58,73	1.46	4 (9%)	49,95,113	2.18	11 (22%)
24	LMT	A	846	-	36,36,36	1.14	5 (13%)	47,47,47	1.13	2 (4%)
17	LUT	J	1109	-	42,43,43	2.28	1 (2%)	51,60,60	1.94	9 (17%)
18	BCR	A	850	-	41,41,41	0.64	0	56,56,56	3.20	14 (25%)
30	ZEX	F	301	-	42,43,43	0.73	0	55,60,60	1.76	11 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
19	CLA	B	827	-	59,73,73	1.26	8 (13%)	67,113,113	1.70	6 (8%)
19	CLA	B	832	-	52,66,73	1.36	5 (9%)	58,104,113	1.80	9 (15%)
24	LMT	4	320	-	36,36,36	1.15	4 (11%)	47,47,47	0.95	3 (6%)
19	CLA	B	814	-	59,73,73	1.27	7 (11%)	67,113,113	1.66	7 (10%)
19	CLA	2	507	2	59,73,73	1.27	5 (8%)	67,113,113	1.75	7 (10%)
19	CLA	L	303	16	44,58,73	1.48	7 (15%)	49,95,113	1.88	6 (12%)
21	LHG	B	843	-	48,48,48	0.40	0	51,54,54	1.01	2 (3%)
19	CLA	B	829	-	59,73,73	1.28	6 (10%)	67,113,113	1.70	9 (13%)
18	BCR	A	851	-	41,41,41	0.66	0	56,56,56	3.23	14 (25%)
19	CLA	2	514	2	49,63,73	1.39	7 (14%)	55,101,113	1.87	7 (12%)
18	BCR	B	853	-	41,41,41	0.63	0	56,56,56	3.06	13 (23%)
19	CLA	4	311	-	40,54,73	1.53	5 (12%)	44,90,113	1.87	5 (11%)
22	LMG	1	519	-	13,13,55	0.56	0	18,18,63	0.89	1 (5%)
22	LMG	2	521	-	13,13,55	0.59	0	18,18,63	0.75	0
19	CLA	2	511	-	44,58,73	1.49	7 (15%)	49,95,113	1.93	6 (12%)
22	LMG	1	518	-	46,46,55	0.92	3 (6%)	54,54,63	1.04	2 (3%)
17	LUT	3	301	-	42,43,43	2.41	1 (2%)	51,60,60	1.68	7 (13%)
19	CLA	B	809	-	59,73,73	1.29	7 (11%)	67,113,113	1.59	6 (8%)
20	CHL	4	313	-	41,55,74	1.05	4 (9%)	41,91,114	1.48	11 (26%)
19	CLA	A	842	21	54,68,73	1.33	7 (12%)	61,107,113	1.75	6 (9%)
19	CLA	A	818	-	50,64,73	1.39	8 (16%)	56,102,113	1.77	7 (12%)
19	CLA	B	811	-	59,73,73	1.31	7 (11%)	67,113,113	1.63	8 (11%)
19	CLA	B	835	-	49,63,73	1.41	6 (12%)	55,101,113	1.67	5 (9%)
19	CLA	A	831	-	59,73,73	1.27	4 (6%)	67,113,113	1.69	9 (13%)
19	CLA	3	317	-	40,54,73	1.57	8 (20%)	44,90,113	1.74	4 (9%)
19	CLA	A	803	31	59,73,73	1.26	6 (10%)	67,113,113	1.73	7 (10%)
21	LHG	1	517	-	48,48,48	0.41	0	51,54,54	1.09	4 (7%)
22	LMG	J	1104	-	34,34,55	0.46	0	42,42,63	1.23	5 (11%)
19	CLA	1	505	1	40,54,73	1.57	8 (20%)	44,90,113	1.82	4 (9%)
19	CLA	4	307	4	54,68,73	1.32	5 (9%)	61,107,113	1.77	9 (14%)
19	CLA	H	1000	-	54,68,73	1.35	8 (14%)	61,107,113	1.75	7 (11%)
19	CLA	2	504	2	54,68,73	1.32	6 (11%)	61,107,113	1.83	7 (11%)
19	CLA	A	829	-	59,73,73	1.26	8 (13%)	67,113,113	1.64	6 (8%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	CLA	A	840	31	3/3/20/25	16/37/135/135	-
19	CLA	3	308	-	2/2/20/25	22/37/135/135	-
19	CLA	4	309	-	3/3/17/25	12/19/117/135	-
26	DGD	B	801	-	-	21/30/70/95	0/2/2/2
18	BCR	B	802	-	-	5/29/63/63	0/2/2/2
19	CLA	A	838	-	3/3/20/25	14/37/135/135	-
18	BCR	A	849	-	-	11/29/63/63	0/2/2/2
20	CHL	1	514	1	4/4/19/26	11/33/131/137	-
24	LMT	3	318	-	-	4/17/57/61	0/2/2/2
19	CLA	3	306	-	2/2/17/25	8/22/120/135	-
19	CLA	A	808	5	3/3/20/25	19/37/135/135	-
19	CLA	B	815	-	3/3/20/25	10/37/135/135	-
28	SF4	A	843	5,6	-	-	0/6/5/5
19	CLA	B	824	31	2/2/20/25	15/37/135/135	-
19	CLA	L	304	-	3/3/19/25	12/31/129/135	-
19	CLA	A	821	-	3/3/20/25	17/37/135/135	-
20	CHL	2	516	2	4/4/18/26	7/27/125/137	-
18	BCR	4	301	-	-	13/29/63/63	0/2/2/2
19	CLA	A	810	-	3/3/17/25	6/19/117/135	-
19	CLA	1	516	1	3/3/19/25	11/31/129/135	-
19	CLA	B	834	31	3/3/18/25	12/25/123/135	-
19	CLA	A	832	-	2/2/20/25	11/37/135/135	-
18	BCR	B	850	-	-	10/29/63/63	0/2/2/2
26	DGD	B	854	-	-	19/50/90/95	0/2/2/2
19	CLA	A	805	-	3/3/20/25	28/37/135/135	-
19	CLA	B	808	-	3/3/20/25	19/37/135/135	-
19	CLA	A	804	-	3/3/20/25	22/37/135/135	-
19	CLA	B	833	-	3/3/19/25	10/31/129/135	-
19	CLA	J	1102	31	3/3/16/25	3/11/111/135	-
20	CHL	2	513	-	3/3/16/26	1/18/116/137	-
18	BCR	A	848	-	-	10/29/63/63	0/2/2/2
20	CHL	1	512	-	3/3/16/26	3/17/115/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	LMT	G	209	-	-	13/17/57/61	0/2/2/2
20	CHL	2	512	-	3/3/16/26	2/17/115/137	-
17	LUT	2	501	-	1/1/12/27	5/29/67/67	0/2/2/2
19	CLA	G	201	-	3/3/20/25	20/37/135/135	-
22	LMG	F	305	-	-	10/31/51/70	0/1/1/1
19	CLA	K	1002	-	3/3/19/25	19/31/129/135	-
19	CLA	2	510	21	3/3/19/25	15/31/129/135	-
19	CLA	B	830	-	2/2/20/25	13/37/135/135	-
19	CLA	3	315	3	3/3/17/25	7/19/117/135	-
19	CLA	G	204	31	3/3/20/25	18/37/135/135	-
22	LMG	2	525	-	-	0/4/24/70	0/1/1/1
18	BCR	I	102	-	-	14/29/63/63	0/2/2/2
22	LMG	1	518	-	-	12/41/61/70	0/1/1/1
19	CLA	B	820	31	2/2/20/25	16/37/135/135	-
18	BCR	J	1108	-	-	9/29/63/63	0/2/2/2
19	CLA	A	825	31	2/2/20/25	14/37/135/135	-
19	CLA	3	316	-	2/2/16/25	11/15/113/135	-
19	CLA	3	313	3	3/3/19/25	16/31/129/135	-
29	PQN	A	844	-	-	7/23/43/43	0/2/2/2
19	CLA	2	508	-	3/3/18/25	7/25/123/135	-
19	CLA	B	826	-	3/3/20/25	6/37/135/135	-
19	CLA	4	306	-	3/3/20/25	16/37/135/135	-
19	CLA	B	837	-	2/2/17/25	5/19/117/135	-
19	CLA	B	816	-	3/3/18/25	8/25/123/135	-
17	LUT	3	302	-	1/1/12/27	8/29/67/67	0/2/2/2
19	CLA	A	827	-	3/3/20/25	16/37/135/135	-
19	CLA	A	833	-	3/3/20/25	20/37/135/135	-
22	LMG	4	322	-	-	13/40/60/70	0/1/1/1
19	CLA	1	508	-	2/2/20/25	22/37/135/135	-
19	CLA	4	305	4	2/2/17/25	6/19/117/135	-
18	BCR	B	852	-	-	11/29/63/63	0/2/2/2
18	BCR	1	503	-	-	7/11/28/63	0/1/1/2
28	SF4	C	101	7	-	-	0/6/5/5
21	LHG	2	517	19	-	15/39/39/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	CHL	2	515	-	3/3/16/26	3/13/113/137	-
19	CLA	B	817	-	3/3/19/25	8/31/129/135	-
19	CLA	A	839	-	3/3/20/25	14/37/135/135	-
21	LHG	A	845	19	-	27/44/44/53	-
22	LMG	B	845	-	-	13/28/48/70	0/1/1/1
17	LUT	1	502	-	1/1/12/27	9/29/67/67	0/2/2/2
24	LMT	J	1107	-	-	7/11/51/61	0/2/2/2
18	BCR	3	304	-	-	16/29/63/63	0/2/2/2
24	LMT	B	846	-	-	11/21/61/61	0/2/2/2
17	LUT	4	302	-	-	3/29/67/67	0/2/2/2
19	CLA	B	838	31	3/3/20/25	11/37/135/135	-
19	CLA	4	310	-	3/3/19/25	12/31/129/135	-
19	CLA	A	854	31	2/2/20/25	16/37/135/135	-
24	LMT	B	847	-	-	6/18/58/61	0/2/2/2
19	CLA	4	315	4	3/3/20/25	15/37/135/135	-
19	CLA	A	823	-	3/3/19/25	13/31/129/135	-
19	CLA	B	823	-	3/3/18/25	13/25/123/135	-
19	CLA	L	305	31	3/3/17/25	10/19/117/135	-
19	CLA	A	822	-	3/3/19/25	14/31/129/135	-
22	LMG	2	520	-	-	0/4/24/70	0/1/1/1
19	CLA	G	203	11	3/3/16/25	6/15/113/135	-
19	CLA	A	813	-	3/3/20/25	11/37/135/135	-
22	LMG	2	519	-	-	17/31/51/70	0/1/1/1
18	BCR	F	306	-	-	8/29/63/63	0/2/2/2
19	CLA	A	835	5	2/2/18/25	10/25/123/135	-
19	CLA	3	310	31	3/3/17/25	6/19/117/135	-
19	CLA	B	828	-	3/3/20/25	18/37/135/135	-
19	CLA	B	822	-	3/3/20/25	20/37/135/135	-
27	CL0	A	801	-	3/3/20/25	7/37/135/135	-
22	LMG	F	304	-	-	11/42/62/70	0/1/1/1
20	CHL	4	317	4	3/3/15/26	2/12/110/137	-
19	CLA	3	311	-	3/3/15/25	5/8/106/135	-
18	BCR	B	849	-	-	10/29/63/63	0/2/2/2
19	CLA	B	806	-	2/2/20/25	18/37/135/135	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	CLA	B	839	-	3/3/20/25	19/37/135/135	-
19	CLA	B	836	-	2/2/20/25	11/37/135/135	-
19	CLA	A	830	-	3/3/20/25	16/37/135/135	-
19	CLA	B	840	21	2/2/20/25	18/37/135/135	-
19	CLA	A	814	-	2/2/20/25	16/37/135/135	-
19	CLA	B	810	6	3/3/20/25	12/37/135/135	-
19	CLA	G	202	-	2/2/18/25	13/25/123/135	-
18	BCR	A	852	-	-	12/29/63/63	0/2/2/2
19	CLA	1	504	1	3/3/20/25	14/37/135/135	-
18	BCR	2	503	-	-	11/29/63/63	0/2/2/2
21	LHG	A	853	-	-	30/53/53/53	-
21	LHG	B	842	19	-	12/23/23/53	-
20	CHL	1	521	1	4/4/18/26	7/27/125/137	-
19	CLA	A	806	5	3/3/20/25	21/37/135/135	-
18	BCR	B	853	-	-	10/29/63/63	0/2/2/2
29	PQN	B	841	-	-	12/23/43/43	0/2/2/2
18	BCR	3	303	-	-	12/29/63/63	0/2/2/2
19	CLA	A	855	-	3/3/20/25	19/37/135/135	-
19	CLA	A	826	31	3/3/18/25	9/25/123/135	-
22	LMG	2	524	-	-	1/4/24/70	0/1/1/1
19	CLA	B	821	-	3/3/16/25	7/15/113/135	-
24	LMT	B	855	-	-	4/17/57/61	0/2/2/2
19	CLA	3	309	-	1/1/18/25	9/25/123/135	-
18	BCR	L	306	-	-	8/29/63/63	0/2/2/2
26	DGD	4	319	-	-	17/40/80/95	0/2/2/2
18	BCR	B	856	-	-	13/29/63/63	0/2/2/2
22	LMG	G	206	-	-	18/45/65/70	0/1/1/1
19	CLA	B	819	-	3/3/20/25	18/37/135/135	-
19	CLA	K	1004	-	3/3/8/25	-	-
19	CLA	J	1101	-	2/2/20/25	13/37/135/135	-
19	CLA	2	507	2	3/3/20/25	13/37/135/135	-
19	CLA	A	802	-	3/3/20/25	19/37/135/135	-
19	CLA	1	515	-	3/3/16/25	4/11/111/135	-
23	XAT	4	303	-	2/2/12/26	0/31/93/93	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	DGD	J	1106	-	-	14/47/87/95	0/2/2/2
22	LMG	2	518	-	-	6/20/40/70	0/1/1/1
18	BCR	G	205	-	-	11/29/63/63	0/2/2/2
20	CHL	4	314	31	3/3/17/26	4/21/119/137	-
19	CLA	4	312	4	2/2/17/25	6/19/117/135	-
26	DGD	G	207	-	-	10/36/76/95	0/2/2/2
19	CLA	A	834	-	2/2/20/25	17/37/135/135	-
18	BCR	K	1005	-	-	12/29/63/63	0/2/2/2
19	CLA	2	505	2	2/2/17/25	7/22/120/135	-
19	CLA	1	509	-	3/3/17/25	8/19/117/135	-
19	CLA	2	509	-	3/3/17/25	11/19/117/135	-
19	CLA	B	825	31	3/3/20/25	22/37/135/135	-
19	CLA	A	828	-	3/3/20/25	22/37/135/135	-
19	CLA	B	831	-	3/3/19/25	17/31/129/135	-
19	CLA	3	305	-	3/3/18/25	16/25/123/135	-
19	CLA	1	513	-	3/3/20/25	17/37/135/135	-
24	LMT	G	208	-	-	9/21/61/61	0/2/2/2
19	CLA	K	1003	-	2/2/8/25	-	-
19	CLA	A	815	-	3/3/16/25	6/11/111/135	-
19	CLA	B	813	-	3/3/16/25	3/15/113/135	-
22	LMG	A	847	-	-	15/45/65/70	0/1/1/1
22	LMG	J	1103	-	-	4/25/45/70	0/1/1/1
19	CLA	L	301	-	3/3/18/25	8/25/123/135	-
19	CLA	B	805	-	3/3/20/25	19/37/135/135	-
19	CLA	A	812	-	2/2/18/25	11/25/123/135	-
19	CLA	F	303	10	1/1/20/25	18/37/135/135	-
19	CLA	1	507	1	3/3/20/25	14/37/135/135	-
22	LMG	4	321	-	-	0/4/24/70	0/1/1/1
23	XAT	2	502	-	-	5/31/93/93	0/4/4/4
18	BCR	A	856	-	-	13/29/63/63	0/2/2/2
21	LHG	1	517	-	-	28/53/53/53	-
19	CLA	4	304	4	3/3/19/25	10/31/129/135	-
19	CLA	B	804	-	3/3/20/25	13/37/135/135	-
18	BCR	L	307	-	-	11/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	CLA	A	811	-	3/3/20/25	16/37/135/135	-
19	CLA	4	318	-	3/3/20/25	13/37/135/135	-
18	BCR	L	302	-	-	6/29/63/63	0/2/2/2
19	CLA	1	506	-	3/3/18/25	8/25/123/135	-
19	CLA	A	841	-	3/3/20/25	4/37/135/135	-
20	CHL	4	316	-	4/4/19/26	8/33/131/137	-
28	SF4	C	102	7	-	-	0/6/5/5
19	CLA	F	302	-	3/3/20/25	13/37/135/135	-
22	LMG	B	844	-	-	11/30/50/70	0/1/1/1
19	CLA	3	312	-	2/2/16/25	7/17/115/135	-
19	CLA	A	820	-	2/2/17/25	8/19/117/135	-
19	CLA	A	816	-	3/3/16/25	6/15/113/135	-
19	CLA	A	837	-	3/3/20/25	9/37/135/135	-
19	CLA	A	817	-	3/3/20/25	17/37/135/135	-
19	CLA	B	812	-	3/3/19/25	13/31/129/135	-
18	BCR	I	101	-	-	11/29/63/63	0/2/2/2
19	CLA	B	807	6	2/2/20/25	13/37/135/135	-
19	CLA	1	510	-	3/3/16/25	7/15/113/135	-
17	LUT	1	501	-	-	3/29/67/67	0/2/2/2
19	CLA	A	836	-	1/1/17/25	9/21/119/135	-
19	CLA	B	818	-	3/3/20/25	16/37/135/135	-
21	LHG	1	520	-	-	26/46/46/53	-
19	CLA	A	809	5	3/3/20/25	17/37/135/135	-
19	CLA	A	824	-	3/3/20/25	18/37/135/135	-
19	CLA	2	506	-	3/3/20/25	14/37/135/135	-
20	CHL	3	314	-	3/3/16/26	4/17/115/137	-
22	LMG	G	210	-	-	10/20/40/70	0/1/1/1
19	CLA	1	511	-	3/3/16/25	7/15/113/135	-
24	LMT	2	523	-	-	10/21/61/61	0/2/2/2
19	CLA	K	1001	-	3/3/16/25	8/11/111/135	-
19	CLA	B	809	-	3/3/20/25	10/37/135/135	-
19	CLA	A	807	-	3/3/19/25	17/31/129/135	-
19	CLA	B	803	-	3/3/20/25	8/37/135/135	-
20	CHL	2	526	2	4/4/20/26	10/39/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	CLA	A	819	-	3/3/20/25	16/37/135/135	-
18	BCR	A	850	-	-	5/29/63/63	0/2/2/2
19	CLA	J	1105	-	3/3/17/25	10/19/117/135	-
24	LMT	A	846	-	-	8/21/61/61	0/2/2/2
17	LUT	J	1109	-	1/1/12/27	6/29/67/67	0/2/2/2
19	CLA	A	842	21	3/3/19/25	13/31/129/135	-
30	ZEX	F	301	-	-	3/29/67/67	0/2/2/2
19	CLA	B	827	-	2/2/20/25	19/37/135/135	-
19	CLA	B	832	-	3/3/18/25	11/29/127/135	-
24	LMT	4	320	-	-	4/21/61/61	0/2/2/2
19	CLA	B	814	-	3/3/20/25	18/37/135/135	-
19	CLA	L	303	16	3/3/17/25	7/19/117/135	-
21	LHG	B	843	-	-	28/53/53/53	-
19	CLA	B	829	-	3/3/20/25	20/37/135/135	-
18	BCR	A	851	-	-	12/29/63/63	0/2/2/2
19	CLA	2	514	2	3/3/18/25	7/25/123/135	-
19	CLA	4	308	4	1/1/19/25	13/31/129/135	-
19	CLA	4	311	-	2/2/16/25	6/15/113/135	-
22	LMG	1	519	-	-	1/4/24/70	0/1/1/1
22	LMG	2	521	-	-	0/4/24/70	0/1/1/1
19	CLA	2	511	-	3/3/17/25	10/19/117/135	-
22	LMG	2	522	-	-	4/4/24/70	0/1/1/1
17	LUT	3	301	-	-	3/29/67/67	0/2/2/2
18	BCR	B	851	-	-	11/29/63/63	0/2/2/2
20	CHL	4	313	-	3/3/16/26	0/17/115/137	-
19	CLA	3	307	-	3/3/18/25	13/25/123/135	-
19	CLA	A	818	-	3/3/18/25	15/27/125/135	-
19	CLA	B	811	-	3/3/20/25	17/37/135/135	-
19	CLA	B	835	-	1/1/18/25	10/25/123/135	-
19	CLA	A	831	-	3/3/20/25	13/37/135/135	-
19	CLA	3	317	-	2/2/16/25	6/15/113/135	-
19	CLA	A	803	31	2/2/20/25	8/37/135/135	-
19	CLA	2	504	2	3/3/19/25	9/31/129/135	-
22	LMG	J	1104	-	-	12/29/49/70	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
19	CLA	1	505	1	1/1/16/25	6/15/113/135	-
19	CLA	4	307	4	3/3/19/25	13/31/129/135	-
19	CLA	H	1000	-	2/2/19/25	10/31/129/135	-
19	CLA	A	829	-	3/3/20/25	19/37/135/135	-

All (1074) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	4	302	LUT	C24-C25	14.95	1.51	1.33
17	3	301	LUT	C24-C25	14.77	1.51	1.33
17	1	501	LUT	C24-C25	14.56	1.51	1.33
17	1	502	LUT	C24-C25	14.52	1.51	1.33
17	2	501	LUT	C24-C25	14.34	1.51	1.33
17	3	302	LUT	C24-C25	14.18	1.50	1.33
17	J	1109	LUT	C24-C25	13.94	1.50	1.33
19	K	1004	CLA	CHB-C4A	8.25	1.41	1.34
19	K	1003	CLA	CHB-C4A	8.16	1.41	1.34
27	A	801	CL0	MG-NA	7.48	2.24	2.06
19	F	302	CLA	MG-NA	6.73	2.22	2.06
19	A	825	CLA	MG-NA	6.73	2.22	2.06
19	3	309	CLA	MG-NA	6.72	2.22	2.06
19	4	305	CLA	MG-NA	6.71	2.22	2.06
19	B	838	CLA	MG-NA	6.71	2.22	2.06
19	4	310	CLA	MG-NA	6.67	2.22	2.06
19	L	305	CLA	MG-NA	6.65	2.22	2.06
19	K	1002	CLA	MG-NA	6.64	2.22	2.06
19	G	202	CLA	MG-NA	6.63	2.22	2.06
19	3	307	CLA	MG-NA	6.62	2.22	2.06
19	3	311	CLA	MG-NA	6.62	2.22	2.06
19	A	815	CLA	MG-NA	6.60	2.22	2.06
19	1	515	CLA	MG-NA	6.60	2.22	2.06
19	K	1003	CLA	MG-NA	6.59	2.21	2.06
19	A	823	CLA	MG-NA	6.58	2.21	2.06
19	1	516	CLA	MG-NA	6.58	2.21	2.06
19	K	1004	CLA	MG-NA	6.58	2.21	2.06
19	A	835	CLA	MG-NA	6.57	2.21	2.06
19	B	826	CLA	MG-NA	6.57	2.21	2.06
19	2	505	CLA	MG-NA	6.57	2.21	2.06
19	A	812	CLA	MG-NA	6.56	2.21	2.06
19	B	813	CLA	MG-NA	6.56	2.21	2.06
19	A	822	CLA	MG-NA	6.55	2.21	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	1	505	CLA	MG-NA	6.54	2.21	2.06
19	K	1001	CLA	MG-NA	6.54	2.21	2.06
19	B	834	CLA	MG-NA	6.53	2.21	2.06
19	G	203	CLA	MG-NA	6.53	2.21	2.06
19	B	808	CLA	MG-NA	6.52	2.21	2.06
19	4	308	CLA	MG-NA	6.52	2.21	2.06
19	3	317	CLA	MG-NA	6.52	2.21	2.06
19	B	818	CLA	MG-NA	6.52	2.21	2.06
19	A	807	CLA	MG-NA	6.51	2.21	2.06
19	A	818	CLA	MG-NA	6.50	2.21	2.06
19	L	304	CLA	MG-NA	6.50	2.21	2.06
19	1	513	CLA	MG-NA	6.50	2.21	2.06
19	3	312	CLA	MG-NA	6.50	2.21	2.06
19	G	201	CLA	MG-NA	6.50	2.21	2.06
19	B	839	CLA	MG-NA	6.50	2.21	2.06
19	4	306	CLA	MG-NA	6.49	2.21	2.06
19	A	817	CLA	MG-NA	6.49	2.21	2.06
19	2	510	CLA	MG-NA	6.48	2.21	2.06
19	B	829	CLA	MG-NA	6.48	2.21	2.06
19	H	1000	CLA	MG-NA	6.48	2.21	2.06
19	A	841	CLA	MG-NA	6.48	2.21	2.06
19	2	506	CLA	MG-NA	6.47	2.21	2.06
19	A	816	CLA	MG-NA	6.47	2.21	2.06
19	3	313	CLA	MG-NA	6.47	2.21	2.06
19	G	204	CLA	MG-NA	6.47	2.21	2.06
19	A	836	CLA	MG-NA	6.47	2.21	2.06
19	L	303	CLA	MG-NA	6.46	2.21	2.06
19	A	838	CLA	MG-NA	6.46	2.21	2.06
19	1	509	CLA	MG-NA	6.46	2.21	2.06
19	1	508	CLA	MG-NA	6.46	2.21	2.06
19	B	816	CLA	MG-NA	6.46	2.21	2.06
19	B	817	CLA	MG-NA	6.46	2.21	2.06
19	A	814	CLA	MG-NA	6.45	2.21	2.06
19	2	508	CLA	MG-NA	6.45	2.21	2.06
19	A	820	CLA	MG-NA	6.45	2.21	2.06
19	3	308	CLA	MG-NA	6.45	2.21	2.06
19	2	507	CLA	MG-NA	6.45	2.21	2.06
19	B	812	CLA	MG-NA	6.44	2.21	2.06
19	A	831	CLA	MG-NA	6.44	2.21	2.06
19	A	842	CLA	MG-NA	6.44	2.21	2.06
19	A	832	CLA	MG-NA	6.44	2.21	2.06
19	1	504	CLA	MG-NA	6.44	2.21	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	2	511	CLA	MG-NA	6.44	2.21	2.06
19	A	824	CLA	MG-NA	6.43	2.21	2.06
19	4	304	CLA	MG-NA	6.43	2.21	2.06
19	B	824	CLA	MG-NA	6.42	2.21	2.06
19	1	506	CLA	MG-NA	6.42	2.21	2.06
19	A	837	CLA	MG-NA	6.41	2.21	2.06
19	A	827	CLA	MG-NA	6.41	2.21	2.06
19	L	301	CLA	MG-NA	6.41	2.21	2.06
19	B	814	CLA	MG-NA	6.41	2.21	2.06
19	A	808	CLA	MG-NA	6.40	2.21	2.06
19	B	821	CLA	MG-NA	6.40	2.21	2.06
19	4	307	CLA	MG-NA	6.40	2.21	2.06
19	F	303	CLA	MG-NA	6.39	2.21	2.06
19	3	316	CLA	MG-NA	6.38	2.21	2.06
19	A	809	CLA	MG-NA	6.38	2.21	2.06
19	B	811	CLA	MG-NA	6.38	2.21	2.06
19	A	811	CLA	MG-NA	6.38	2.21	2.06
19	B	822	CLA	MG-NA	6.38	2.21	2.06
19	B	804	CLA	MG-NA	6.38	2.21	2.06
19	B	805	CLA	MG-NA	6.37	2.21	2.06
19	B	810	CLA	MG-NA	6.37	2.21	2.06
19	B	835	CLA	MG-NA	6.37	2.21	2.06
19	A	829	CLA	MG-NA	6.36	2.21	2.06
19	B	809	CLA	MG-NA	6.36	2.21	2.06
19	1	511	CLA	MG-NA	6.35	2.21	2.06
19	1	507	CLA	MG-NA	6.35	2.21	2.06
19	B	840	CLA	MG-NA	6.35	2.21	2.06
19	B	823	CLA	MG-NA	6.34	2.21	2.06
19	A	833	CLA	MG-NA	6.34	2.21	2.06
19	4	315	CLA	MG-NA	6.34	2.21	2.06
19	A	819	CLA	MG-NA	6.33	2.21	2.06
19	A	839	CLA	MG-NA	6.32	2.21	2.06
19	B	837	CLA	MG-NA	6.32	2.21	2.06
19	B	828	CLA	MG-NA	6.32	2.21	2.06
19	A	830	CLA	MG-NA	6.32	2.21	2.06
19	4	318	CLA	MG-NA	6.31	2.21	2.06
19	2	514	CLA	MG-NA	6.31	2.21	2.06
19	B	832	CLA	MG-NA	6.31	2.21	2.06
19	A	840	CLA	MG-NA	6.29	2.21	2.06
19	B	825	CLA	MG-NA	6.29	2.21	2.06
19	B	815	CLA	MG-NA	6.28	2.21	2.06
19	A	805	CLA	MG-NA	6.28	2.21	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	3	305	CLA	MG-NA	6.28	2.21	2.06
19	J	1102	CLA	MG-NA	6.28	2.21	2.06
19	J	1101	CLA	MG-NA	6.28	2.21	2.06
19	A	803	CLA	MG-NA	6.27	2.21	2.06
19	4	312	CLA	MG-NA	6.27	2.21	2.06
19	2	509	CLA	MG-NA	6.27	2.21	2.06
19	A	828	CLA	MG-NA	6.27	2.21	2.06
19	3	315	CLA	MG-NA	6.27	2.21	2.06
19	A	810	CLA	MG-NA	6.26	2.21	2.06
19	3	306	CLA	MG-NA	6.25	2.21	2.06
19	B	807	CLA	MG-NA	6.25	2.21	2.06
19	A	855	CLA	MG-NA	6.25	2.21	2.06
19	B	831	CLA	MG-NA	6.25	2.21	2.06
19	A	834	CLA	MG-NA	6.25	2.21	2.06
19	B	827	CLA	MG-NA	6.25	2.21	2.06
19	B	830	CLA	MG-NA	6.24	2.21	2.06
19	1	510	CLA	MG-NA	6.24	2.21	2.06
19	A	826	CLA	MG-NA	6.24	2.21	2.06
19	B	820	CLA	MG-NA	6.23	2.21	2.06
19	A	821	CLA	MG-NA	6.22	2.21	2.06
19	B	836	CLA	MG-NA	6.21	2.21	2.06
19	B	803	CLA	MG-NA	6.20	2.21	2.06
19	2	504	CLA	MG-NA	6.17	2.20	2.06
19	A	813	CLA	MG-NA	6.15	2.20	2.06
19	A	806	CLA	MG-NA	6.15	2.20	2.06
19	B	819	CLA	MG-NA	6.14	2.20	2.06
19	B	806	CLA	MG-NA	6.12	2.20	2.06
19	J	1105	CLA	MG-NA	6.12	2.20	2.06
19	A	804	CLA	MG-NA	6.11	2.20	2.06
19	4	311	CLA	MG-NA	6.09	2.20	2.06
19	4	309	CLA	MG-NA	6.09	2.20	2.06
19	B	833	CLA	MG-NA	6.01	2.20	2.06
19	3	310	CLA	MG-NA	6.01	2.20	2.06
19	A	854	CLA	MG-NA	5.93	2.20	2.06
19	A	802	CLA	MG-NA	5.86	2.20	2.06
27	A	801	CL0	C3B-C2B	5.58	1.48	1.40
20	4	314	CHL	C3B-C2B	-3.94	1.34	1.40
19	J	1105	CLA	C1C-NC	-3.81	1.32	1.37
19	K	1003	CLA	C3B-C4B	3.57	1.46	1.39
19	K	1004	CLA	C3B-C4B	3.55	1.46	1.39
19	1	510	CLA	C1C-NC	-3.53	1.32	1.37
20	2	513	CHL	C3B-C2B	-3.49	1.35	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	3	306	CLA	C1C-NC	-3.49	1.32	1.37
20	2	516	CHL	C4B-NB	3.48	1.38	1.35
19	J	1105	CLA	CBB-CAB	3.43	1.52	1.29
20	1	521	CHL	C4B-NB	3.40	1.38	1.35
19	F	302	CLA	CBB-CAB	3.39	1.51	1.29
19	2	510	CLA	CBB-CAB	3.38	1.51	1.29
19	4	306	CLA	CBB-CAB	3.38	1.51	1.29
19	B	810	CLA	CBB-CAB	3.38	1.51	1.29
19	A	806	CLA	CBB-CAB	3.37	1.51	1.29
19	4	307	CLA	CBB-CAB	3.37	1.51	1.29
20	2	515	CHL	CBB-CAB	3.37	1.51	1.29
19	1	516	CLA	CBB-CAB	3.37	1.51	1.29
19	2	509	CLA	CBB-CAB	3.37	1.51	1.29
19	4	311	CLA	CBB-CAB	3.37	1.51	1.29
19	A	826	CLA	CBB-CAB	3.37	1.51	1.29
19	3	315	CLA	CBB-CAB	3.37	1.51	1.29
20	2	512	CHL	C3A-C2A	-3.37	1.45	1.54
19	B	807	CLA	CBB-CAB	3.37	1.51	1.29
19	3	307	CLA	CBB-CAB	3.37	1.51	1.29
19	3	312	CLA	CBB-CAB	3.37	1.51	1.29
19	G	203	CLA	CBB-CAB	3.37	1.51	1.29
19	1	509	CLA	CBB-CAB	3.36	1.51	1.29
19	K	1001	CLA	CBB-CAB	3.36	1.51	1.29
19	A	820	CLA	CBB-CAB	3.36	1.51	1.29
19	L	303	CLA	CBB-CAB	3.36	1.51	1.29
19	A	825	CLA	CBB-CAB	3.36	1.51	1.29
19	3	306	CLA	CBB-CAB	3.36	1.51	1.29
19	J	1102	CLA	CBB-CAB	3.36	1.51	1.29
19	A	819	CLA	CBB-CAB	3.36	1.51	1.29
19	B	826	CLA	CBB-CAB	3.36	1.51	1.29
19	3	316	CLA	CBB-CAB	3.36	1.51	1.29
19	A	808	CLA	CBB-CAB	3.36	1.51	1.29
19	B	813	CLA	CBB-CAB	3.36	1.51	1.29
19	4	305	CLA	CBB-CAB	3.36	1.51	1.29
27	A	801	CL0	CBB-CAB	3.36	1.51	1.29
19	A	835	CLA	CBB-CAB	3.36	1.51	1.29
19	A	833	CLA	CBB-CAB	3.36	1.51	1.29
19	3	311	CLA	CBB-CAB	3.36	1.51	1.29
19	1	513	CLA	CBB-CAB	3.35	1.51	1.29
19	1	515	CLA	CBB-CAB	3.35	1.51	1.29
19	4	308	CLA	CBB-CAB	3.35	1.51	1.29
19	B	815	CLA	C1C-NC	-3.35	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	1	510	CLA	CBB-CAB	3.35	1.51	1.29
19	L	305	CLA	CBB-CAB	3.35	1.51	1.29
19	3	313	CLA	CBB-CAB	3.35	1.51	1.29
19	B	836	CLA	CBB-CAB	3.35	1.51	1.29
19	H	1000	CLA	CBB-CAB	3.35	1.51	1.29
19	K	1002	CLA	CBB-CAB	3.35	1.51	1.29
19	1	508	CLA	CBB-CAB	3.35	1.51	1.29
19	A	815	CLA	CBB-CAB	3.35	1.51	1.29
19	B	817	CLA	CBB-CAB	3.35	1.51	1.29
19	2	507	CLA	CBB-CAB	3.35	1.51	1.29
19	2	505	CLA	CBB-CAB	3.35	1.51	1.29
19	4	309	CLA	CBB-CAB	3.35	1.51	1.29
19	G	201	CLA	CBB-CAB	3.35	1.51	1.29
19	A	830	CLA	CBB-CAB	3.35	1.51	1.29
19	B	819	CLA	CBB-CAB	3.35	1.51	1.29
19	A	807	CLA	CBB-CAB	3.35	1.51	1.29
19	B	815	CLA	CBB-CAB	3.35	1.51	1.29
19	A	813	CLA	CBB-CAB	3.34	1.51	1.29
19	4	304	CLA	CBB-CAB	3.34	1.51	1.29
19	G	202	CLA	CBB-CAB	3.34	1.51	1.29
26	J	1106	DGD	CAA-C9A	-3.34	1.32	1.51
19	A	836	CLA	CBB-CAB	3.34	1.51	1.29
19	2	504	CLA	CBB-CAB	3.34	1.51	1.29
19	3	309	CLA	CBB-CAB	3.34	1.51	1.29
19	A	818	CLA	CBB-CAB	3.34	1.51	1.29
19	1	505	CLA	CBB-CAB	3.34	1.51	1.29
19	B	840	CLA	CBB-CAB	3.34	1.51	1.29
19	A	842	CLA	CBB-CAB	3.34	1.51	1.29
19	A	811	CLA	CBB-CAB	3.34	1.51	1.29
19	A	812	CLA	CBB-CAB	3.34	1.51	1.29
19	1	511	CLA	CBB-CAB	3.34	1.51	1.29
19	A	816	CLA	CBB-CAB	3.34	1.51	1.29
19	2	506	CLA	CBB-CAB	3.34	1.51	1.29
19	B	839	CLA	CBB-CAB	3.34	1.51	1.29
19	2	508	CLA	CBB-CAB	3.34	1.51	1.29
19	L	301	CLA	CBB-CAB	3.34	1.51	1.29
19	A	814	CLA	CBB-CAB	3.34	1.51	1.29
19	A	831	CLA	CBB-CAB	3.34	1.51	1.29
19	3	308	CLA	CBB-CAB	3.34	1.51	1.29
19	2	514	CLA	CBB-CAB	3.34	1.51	1.29
19	B	820	CLA	CBB-CAB	3.34	1.51	1.29
19	B	832	CLA	CBB-CAB	3.34	1.51	1.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	L	304	CLA	CBB-CAB	3.34	1.51	1.29
19	4	310	CLA	CBB-CAB	3.34	1.51	1.29
19	B	838	CLA	CBB-CAB	3.34	1.51	1.29
20	1	514	CHL	CBB-CAB	3.34	1.51	1.29
19	1	504	CLA	CBB-CAB	3.34	1.51	1.29
19	B	825	CLA	CBB-CAB	3.33	1.51	1.29
19	B	821	CLA	CBB-CAB	3.33	1.51	1.29
19	1	507	CLA	CBB-CAB	3.33	1.51	1.29
19	B	822	CLA	CBB-CAB	3.33	1.51	1.29
19	B	824	CLA	CBB-CAB	3.33	1.51	1.29
19	B	816	CLA	CBB-CAB	3.33	1.51	1.29
19	4	315	CLA	CBB-CAB	3.33	1.51	1.29
19	B	830	CLA	CBB-CAB	3.33	1.51	1.29
19	B	833	CLA	CBB-CAB	3.33	1.51	1.29
19	B	818	CLA	CBB-CAB	3.33	1.51	1.29
19	B	827	CLA	CBB-CAB	3.33	1.51	1.29
19	B	831	CLA	CBB-CAB	3.33	1.51	1.29
20	1	512	CHL	C4B-NB	3.33	1.38	1.35
19	A	824	CLA	CBB-CAB	3.33	1.51	1.29
19	4	318	CLA	CBB-CAB	3.33	1.51	1.29
19	A	822	CLA	CBB-CAB	3.33	1.51	1.29
19	A	841	CLA	CBB-CAB	3.33	1.51	1.29
19	B	809	CLA	CBB-CAB	3.32	1.51	1.29
19	F	303	CLA	CBB-CAB	3.32	1.51	1.29
19	1	506	CLA	CBB-CAB	3.32	1.51	1.29
19	A	855	CLA	CBB-CAB	3.32	1.51	1.29
19	A	839	CLA	CBB-CAB	3.32	1.51	1.29
19	B	811	CLA	CBB-CAB	3.32	1.51	1.29
19	A	829	CLA	CBB-CAB	3.32	1.51	1.29
19	A	803	CLA	CBB-CAB	3.32	1.51	1.29
19	A	823	CLA	CBB-CAB	3.31	1.51	1.29
19	A	817	CLA	CBB-CAB	3.31	1.51	1.29
19	2	511	CLA	CBB-CAB	3.31	1.51	1.29
26	B	854	DGD	CAB-C9B	-3.31	1.33	1.51
19	B	834	CLA	CBB-CAB	3.31	1.51	1.29
19	B	829	CLA	CBB-CAB	3.31	1.51	1.29
19	A	810	CLA	CBB-CAB	3.31	1.51	1.29
19	G	204	CLA	CBB-CAB	3.31	1.51	1.29
19	A	821	CLA	CBB-CAB	3.31	1.51	1.29
20	2	526	CHL	CBB-CAB	3.31	1.51	1.29
19	A	828	CLA	CBB-CAB	3.31	1.51	1.29
19	G	201	CLA	C1C-NC	-3.31	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	827	CLA	CBB-CAB	3.30	1.51	1.29
19	J	1101	CLA	CBB-CAB	3.30	1.51	1.29
19	B	804	CLA	CBB-CAB	3.30	1.51	1.29
19	A	838	CLA	CBB-CAB	3.30	1.51	1.29
19	A	832	CLA	CBB-CAB	3.30	1.51	1.29
19	B	814	CLA	CBB-CAB	3.30	1.51	1.29
19	A	809	CLA	CBB-CAB	3.30	1.51	1.29
19	4	306	CLA	C1C-NC	-3.30	1.32	1.37
19	A	854	CLA	CBB-CAB	3.30	1.51	1.29
19	A	802	CLA	CBB-CAB	3.30	1.51	1.29
19	3	310	CLA	CBB-CAB	3.30	1.51	1.29
19	B	837	CLA	CBB-CAB	3.30	1.51	1.29
19	B	803	CLA	CBB-CAB	3.30	1.51	1.29
19	B	808	CLA	CBB-CAB	3.29	1.51	1.29
19	A	837	CLA	CBB-CAB	3.29	1.51	1.29
19	B	812	CLA	CBB-CAB	3.29	1.51	1.29
19	B	805	CLA	CBB-CAB	3.29	1.51	1.29
26	J	1106	DGD	CDA-CCA	-3.29	1.33	1.51
27	A	801	CL0	C1D-C2D	3.29	1.50	1.42
19	A	840	CLA	CBB-CAB	3.29	1.51	1.29
20	4	313	CHL	C4B-NB	3.29	1.38	1.35
20	2	515	CHL	C4B-NB	3.28	1.38	1.35
19	B	835	CLA	CBB-CAB	3.28	1.51	1.29
20	4	317	CHL	CBB-CAB	3.28	1.51	1.29
26	4	319	DGD	CAA-C9A	-3.28	1.33	1.51
19	4	312	CLA	CBB-CAB	3.28	1.51	1.29
20	4	317	CHL	C4B-NB	3.28	1.38	1.35
22	F	304	LMG	C40-C39	-3.27	1.33	1.51
19	B	823	CLA	CBB-CAB	3.27	1.51	1.29
19	B	806	CLA	CBB-CAB	3.27	1.51	1.29
20	4	313	CHL	CBB-CAB	3.27	1.51	1.29
22	F	304	LMG	C43-C42	-3.27	1.33	1.51
20	2	516	CHL	CBB-CAB	3.27	1.51	1.29
19	A	834	CLA	CBB-CAB	3.26	1.50	1.29
19	B	828	CLA	CBB-CAB	3.26	1.50	1.29
19	B	821	CLA	C1C-NC	-3.26	1.32	1.37
22	4	322	LMG	C40-C39	-3.26	1.33	1.51
19	3	310	CLA	C1C-NC	-3.25	1.32	1.37
19	3	305	CLA	C1C-NC	-3.25	1.33	1.37
22	1	518	LMG	C19-C18	-3.25	1.33	1.51
19	A	804	CLA	CBB-CAB	3.24	1.50	1.29
20	2	526	CHL	C4B-NB	3.24	1.38	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	G	206	LMG	C40-C39	-3.24	1.33	1.51
20	1	512	CHL	CBB-CAB	3.24	1.50	1.29
22	A	847	LMG	C19-C18	-3.24	1.33	1.51
22	F	304	LMG	C37-C36	-3.24	1.33	1.51
22	A	847	LMG	C25-C24	-3.24	1.33	1.51
19	3	305	CLA	CBB-CAB	3.24	1.50	1.29
20	2	513	CHL	C4B-NB	3.24	1.38	1.35
19	3	317	CLA	CBB-CAB	3.23	1.50	1.29
19	4	311	CLA	C1C-NC	-3.23	1.33	1.37
26	J	1106	DGD	CGA-CFA	-3.23	1.33	1.51
19	B	831	CLA	C1C-NC	-3.23	1.33	1.37
20	4	316	CHL	C4B-NB	3.23	1.38	1.35
22	4	322	LMG	C37-C36	-3.22	1.33	1.51
22	A	847	LMG	C22-C21	-3.22	1.33	1.51
20	4	316	CHL	C3B-C2B	-3.22	1.35	1.40
22	G	206	LMG	C37-C36	-3.22	1.33	1.51
19	A	807	CLA	C1C-NC	-3.22	1.33	1.37
26	B	854	DGD	CGB-CFB	-3.21	1.33	1.51
19	B	832	CLA	C1C-NC	-3.21	1.33	1.37
22	F	305	LMG	C37-C36	-3.21	1.33	1.51
19	A	805	CLA	C1C-NC	-3.21	1.33	1.37
22	1	518	LMG	C22-C21	-3.21	1.33	1.51
22	A	847	LMG	C37-C36	-3.21	1.33	1.51
19	3	316	CLA	C1C-NC	-3.21	1.33	1.37
19	G	202	CLA	C1C-NC	-3.20	1.33	1.37
26	B	854	DGD	CAA-C9A	-3.20	1.33	1.51
19	A	826	CLA	C1C-NC	-3.20	1.33	1.37
19	A	841	CLA	CHC-C1C	3.20	1.43	1.35
22	G	206	LMG	C22-C21	-3.19	1.33	1.51
19	A	838	CLA	C1C-NC	-3.19	1.33	1.37
19	A	805	CLA	CBB-CAB	3.19	1.50	1.29
22	1	518	LMG	C25-C24	-3.19	1.33	1.51
26	B	854	DGD	CDB-CCB	-3.18	1.33	1.51
19	4	315	CLA	C1C-NC	-3.18	1.33	1.37
19	L	303	CLA	C1C-NC	-3.18	1.33	1.37
22	G	206	LMG	C19-C18	-3.18	1.33	1.51
19	B	822	CLA	C1C-NC	-3.17	1.33	1.37
19	A	828	CLA	C1C-NC	-3.17	1.33	1.37
19	4	308	CLA	C1C-NC	-3.16	1.33	1.37
22	B	844	LMG	C19-C18	-3.16	1.33	1.51
20	1	521	CHL	CBB-CAB	3.16	1.50	1.29
20	4	316	CHL	CBB-CAB	3.16	1.50	1.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	831	CLA	C1C-NC	-3.15	1.33	1.37
19	4	318	CLA	C1C-NC	-3.15	1.33	1.37
19	3	311	CLA	C1C-NC	-3.15	1.33	1.37
19	B	840	CLA	C1C-NC	-3.14	1.33	1.37
19	A	841	CLA	C1C-NC	-3.13	1.33	1.37
19	A	813	CLA	C1C-NC	-3.13	1.33	1.37
19	4	307	CLA	C1C-NC	-3.13	1.33	1.37
19	H	1000	CLA	C1C-NC	-3.12	1.33	1.37
19	1	508	CLA	C1C-NC	-3.12	1.33	1.37
19	2	510	CLA	C1C-NC	-3.12	1.33	1.37
19	4	304	CLA	C1C-NC	-3.12	1.33	1.37
19	A	808	CLA	C1C-NC	-3.12	1.33	1.37
19	3	313	CLA	C1C-NC	-3.12	1.33	1.37
19	A	822	CLA	C1C-NC	-3.11	1.33	1.37
19	2	504	CLA	C1C-NC	-3.11	1.33	1.37
19	A	832	CLA	C1C-NC	-3.11	1.33	1.37
19	A	855	CLA	C1C-NC	-3.11	1.33	1.37
19	B	803	CLA	C1C-NC	-3.10	1.33	1.37
19	B	805	CLA	C1C-NC	-3.10	1.33	1.37
19	B	810	CLA	C1C-NC	-3.10	1.33	1.37
19	A	823	CLA	C1C-NC	-3.10	1.33	1.37
19	A	816	CLA	C1C-NC	-3.09	1.33	1.37
19	B	820	CLA	C1C-NC	-3.09	1.33	1.37
19	A	812	CLA	C1C-NC	-3.09	1.33	1.37
19	2	511	CLA	C1C-NC	-3.09	1.33	1.37
20	1	514	CHL	C4B-NB	3.09	1.38	1.35
19	2	514	CLA	C1C-NC	-3.08	1.33	1.37
19	K	1001	CLA	C1C-NC	-3.08	1.33	1.37
19	B	839	CLA	C1C-NC	-3.07	1.33	1.37
19	B	826	CLA	C1C-NC	-3.06	1.33	1.37
19	3	308	CLA	C1C-NC	-3.06	1.33	1.37
19	A	854	CLA	C1C-NC	-3.06	1.33	1.37
19	B	828	CLA	C1C-NC	-3.06	1.33	1.37
19	A	837	CLA	C1C-NC	-3.06	1.33	1.37
19	4	305	CLA	C1C-NC	-3.05	1.33	1.37
19	A	811	CLA	C1C-NC	-3.05	1.33	1.37
19	A	821	CLA	C1C-NC	-3.05	1.33	1.37
19	A	839	CLA	C1C-NC	-3.05	1.33	1.37
19	2	509	CLA	C1C-NC	-3.05	1.33	1.37
19	B	807	CLA	C1C-NC	-3.05	1.33	1.37
20	3	314	CHL	CBB-CAB	3.05	1.49	1.29
19	B	813	CLA	C1C-NC	-3.04	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	827	CLA	C1C-NC	-3.04	1.33	1.37
19	A	814	CLA	C1C-NC	-3.04	1.33	1.37
19	4	309	CLA	C1C-NC	-3.04	1.33	1.37
19	2	507	CLA	C1C-NC	-3.04	1.33	1.37
19	B	823	CLA	C1C-NC	-3.04	1.33	1.37
19	4	312	CLA	C1C-NC	-3.04	1.33	1.37
19	B	834	CLA	CHC-C1C	3.03	1.42	1.35
19	B	835	CLA	C1C-NC	-3.03	1.33	1.37
20	3	314	CHL	C4B-NB	3.03	1.37	1.35
19	B	816	CLA	C1C-NC	-3.03	1.33	1.37
19	B	812	CLA	C1C-NC	-3.03	1.33	1.37
19	B	808	CLA	C1C-NC	-3.02	1.33	1.37
19	1	505	CLA	C1C-NC	-3.02	1.33	1.37
19	G	204	CLA	C1C-NC	-3.02	1.33	1.37
19	1	507	CLA	C1C-NC	-3.02	1.33	1.37
19	B	811	CLA	C1C-NC	-3.02	1.33	1.37
19	1	515	CLA	C1C-NC	-3.02	1.33	1.37
20	2	513	CHL	CBB-CAB	3.01	1.49	1.29
19	J	1102	CLA	C1C-NC	-3.01	1.33	1.37
19	B	827	CLA	C1C-NC	-3.01	1.33	1.37
19	A	809	CLA	C1C-NC	-3.01	1.33	1.37
19	B	804	CLA	C1C-NC	-3.01	1.33	1.37
19	1	504	CLA	C1C-NC	-3.01	1.33	1.37
19	B	806	CLA	C1C-NC	-3.01	1.33	1.37
19	A	810	CLA	C1C-NC	-3.00	1.33	1.37
19	A	817	CLA	C1C-NC	-3.00	1.33	1.37
19	B	809	CLA	C1C-NC	-2.99	1.33	1.37
19	B	817	CLA	C1C-NC	-2.99	1.33	1.37
19	A	824	CLA	C1C-NC	-2.99	1.33	1.37
19	2	506	CLA	C1C-NC	-2.99	1.33	1.37
19	B	814	CLA	C1C-NC	-2.99	1.33	1.37
19	1	516	CLA	C1C-NC	-2.99	1.33	1.37
19	G	203	CLA	C1C-NC	-2.99	1.33	1.37
19	B	833	CLA	C1C-NC	-2.99	1.33	1.37
19	L	304	CLA	C1C-NC	-2.98	1.33	1.37
19	3	307	CLA	C1C-NC	-2.98	1.33	1.37
19	2	505	CLA	C1C-NC	-2.98	1.33	1.37
20	3	314	CHL	C3B-C2B	-2.98	1.36	1.40
19	A	810	CLA	CHC-C1C	2.98	1.42	1.35
19	3	315	CLA	C1C-NC	-2.98	1.33	1.37
19	B	836	CLA	C1C-NC	-2.98	1.33	1.37
19	A	834	CLA	C1C-NC	-2.97	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	833	CLA	CHC-C1C	2.97	1.42	1.35
19	K	1002	CLA	C1C-NC	-2.97	1.33	1.37
19	B	819	CLA	C1C-NC	-2.96	1.33	1.37
19	B	829	CLA	C1C-NC	-2.96	1.33	1.37
19	A	835	CLA	C1C-NC	-2.96	1.33	1.37
19	K	1003	CLA	C2B-C1B	2.96	1.45	1.39
19	1	509	CLA	C1C-NC	-2.96	1.33	1.37
19	A	820	CLA	C1C-NC	-2.96	1.33	1.37
20	4	314	CHL	C4B-NB	2.96	1.37	1.35
19	L	301	CLA	C1C-NC	-2.95	1.33	1.37
19	B	812	CLA	CHC-C1C	2.94	1.42	1.35
20	4	314	CHL	CBB-CAB	2.94	1.48	1.29
19	A	815	CLA	C1C-NC	-2.94	1.33	1.37
19	B	811	CLA	CHC-C1C	2.94	1.42	1.35
19	2	508	CLA	C1C-NC	-2.94	1.33	1.37
19	B	825	CLA	C1C-NC	-2.94	1.33	1.37
19	1	511	CLA	C1C-NC	-2.94	1.33	1.37
19	B	839	CLA	C3B-C2B	-2.93	1.36	1.40
19	A	840	CLA	C1C-NC	-2.93	1.33	1.37
19	3	309	CLA	C1C-NC	-2.93	1.33	1.37
19	3	312	CLA	C1C-NC	-2.93	1.33	1.37
19	B	818	CLA	C1C-NC	-2.93	1.33	1.37
19	A	805	CLA	C3B-C2B	-2.93	1.36	1.40
19	B	838	CLA	C1C-NC	-2.93	1.33	1.37
19	A	806	CLA	C1C-NC	-2.92	1.33	1.37
19	F	303	CLA	C1C-NC	-2.92	1.33	1.37
19	A	836	CLA	C1C-NC	-2.92	1.33	1.37
19	A	802	CLA	C1C-NC	-2.92	1.33	1.37
19	3	317	CLA	C1C-NC	-2.92	1.33	1.37
19	B	834	CLA	C1C-NC	-2.92	1.33	1.37
19	A	802	CLA	CHC-C1C	2.91	1.42	1.35
19	A	842	CLA	C1C-NC	-2.91	1.33	1.37
19	A	819	CLA	C1C-NC	-2.91	1.33	1.37
19	1	513	CLA	C1C-NC	-2.91	1.33	1.37
19	A	833	CLA	C1C-NC	-2.91	1.33	1.37
19	K	1004	CLA	C2B-C1B	2.91	1.45	1.39
19	J	1101	CLA	C1C-NC	-2.91	1.33	1.37
19	F	302	CLA	C1C-NC	-2.91	1.33	1.37
19	A	805	CLA	CHC-C1C	2.90	1.42	1.35
19	4	310	CLA	C1C-NC	-2.90	1.33	1.37
19	A	830	CLA	C1C-NC	-2.89	1.33	1.37
19	A	804	CLA	CHC-C1C	2.89	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	1	506	CLA	C1C-NC	-2.89	1.33	1.37
20	2	512	CHL	CBB-CAB	2.89	1.48	1.29
19	B	817	CLA	CHC-C1C	2.89	1.42	1.35
19	L	305	CLA	C1C-NC	-2.88	1.33	1.37
19	A	829	CLA	C1C-NC	-2.88	1.33	1.37
19	A	826	CLA	CHC-C1C	2.88	1.42	1.35
19	B	836	CLA	CHC-C1C	2.87	1.42	1.35
19	F	302	CLA	CHC-C1C	2.86	1.42	1.35
19	A	837	CLA	CHC-C1C	2.86	1.42	1.35
19	B	832	CLA	CHC-C1C	2.86	1.42	1.35
19	A	806	CLA	CHC-C1C	2.85	1.42	1.35
19	A	818	CLA	C1C-NC	-2.85	1.33	1.37
19	B	824	CLA	C1C-NC	-2.85	1.33	1.37
19	L	301	CLA	CHC-C1C	2.84	1.42	1.35
19	A	818	CLA	CHC-C1C	2.84	1.42	1.35
19	B	838	CLA	CHC-C1C	2.83	1.42	1.35
19	B	808	CLA	CHC-C1C	2.83	1.42	1.35
19	4	310	CLA	CHC-C1C	2.82	1.42	1.35
19	L	305	CLA	CHC-C1C	2.82	1.42	1.35
19	A	829	CLA	CHC-C1C	2.82	1.42	1.35
19	A	803	CLA	CHC-C1C	2.81	1.42	1.35
19	A	823	CLA	CHC-C1C	2.81	1.42	1.35
19	1	515	CLA	CHC-C1C	2.81	1.42	1.35
19	3	305	CLA	CHC-C1C	2.81	1.42	1.35
19	A	854	CLA	CHC-C1C	2.80	1.42	1.35
19	B	805	CLA	CHC-C1C	2.80	1.42	1.35
19	A	822	CLA	CHC-C1C	2.80	1.42	1.35
19	B	809	CLA	CHC-C1C	2.79	1.42	1.35
19	B	833	CLA	CHC-C1C	2.79	1.42	1.35
19	A	825	CLA	C1C-NC	-2.79	1.33	1.37
19	A	827	CLA	CHC-C1C	2.79	1.42	1.35
19	L	304	CLA	CHC-C1C	2.79	1.42	1.35
19	A	839	CLA	CHC-C1C	2.78	1.42	1.35
19	B	830	CLA	C1C-NC	-2.78	1.33	1.37
19	B	819	CLA	CHC-C1C	2.78	1.42	1.35
19	A	831	CLA	CHC-C1C	2.78	1.42	1.35
19	B	825	CLA	CHC-C1C	2.78	1.42	1.35
19	B	837	CLA	C1C-NC	-2.77	1.33	1.37
19	A	803	CLA	C1C-NC	-2.77	1.33	1.37
19	B	830	CLA	CHC-C1C	2.77	1.42	1.35
19	3	306	CLA	C3B-C2B	-2.77	1.36	1.40
19	A	804	CLA	C1C-NC	-2.77	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	813	CLA	CHC-C1C	2.76	1.42	1.35
19	B	823	CLA	CHC-C1C	2.76	1.42	1.35
19	3	317	CLA	C3B-C2B	-2.76	1.36	1.40
19	A	821	CLA	CHC-C1C	2.76	1.42	1.35
19	A	842	CLA	CHC-C1C	2.76	1.42	1.35
19	B	835	CLA	CHC-C1C	2.76	1.42	1.35
19	B	831	CLA	CHC-C1C	2.76	1.42	1.35
19	1	511	CLA	CHC-C1C	2.76	1.42	1.35
24	B	855	LMT	O3'-C3'	-2.75	1.36	1.43
19	G	204	CLA	CHC-C1C	2.75	1.42	1.35
19	B	824	CLA	CHC-C1C	2.75	1.42	1.35
19	4	307	CLA	CHC-C1C	2.74	1.42	1.35
19	K	1001	CLA	CHC-C1C	2.74	1.42	1.35
19	4	304	CLA	CHC-C1C	2.74	1.42	1.35
19	B	840	CLA	CHC-C1C	2.74	1.42	1.35
19	B	822	CLA	C3B-C2B	-2.74	1.36	1.40
19	K	1004	CLA	CAD-CBD	-2.74	1.50	1.54
19	A	815	CLA	CHC-C1C	2.74	1.42	1.35
19	G	202	CLA	CHC-C1C	2.74	1.42	1.35
19	B	821	CLA	CHC-C1C	2.73	1.42	1.35
19	B	803	CLA	CHC-C1C	2.73	1.42	1.35
19	B	828	CLA	CHC-C1C	2.73	1.42	1.35
19	A	838	CLA	C3B-C2B	-2.73	1.36	1.40
24	4	320	LMT	O3'-C3'	-2.73	1.36	1.43
19	2	509	CLA	CHC-C1C	2.73	1.42	1.35
19	B	812	CLA	C3B-C2B	-2.73	1.36	1.40
19	A	817	CLA	CHC-C1C	2.73	1.42	1.35
19	2	504	CLA	CHC-C1C	2.72	1.42	1.35
19	A	808	CLA	CHC-C1C	2.72	1.41	1.35
27	A	801	CL0	MG-NC	2.72	2.12	2.06
19	4	312	CLA	C3B-C2B	-2.72	1.36	1.40
19	A	807	CLA	CHC-C1C	2.72	1.41	1.35
19	B	820	CLA	CHC-C1C	2.71	1.41	1.35
19	3	310	CLA	C3B-C2B	-2.71	1.36	1.40
19	B	806	CLA	C3B-C2B	-2.71	1.36	1.40
19	3	305	CLA	C3B-C2B	-2.71	1.36	1.40
19	G	201	CLA	C3B-C2B	-2.71	1.36	1.40
19	4	312	CLA	CHC-C1C	2.71	1.41	1.35
19	B	807	CLA	CHC-C1C	2.71	1.41	1.35
19	1	513	CLA	CHC-C1C	2.71	1.41	1.35
19	3	315	CLA	CHC-C1C	2.71	1.41	1.35
19	1	516	CLA	CHC-C1C	2.70	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	3	317	CLA	CHC-C1C	2.70	1.41	1.35
19	A	824	CLA	CHC-C1C	2.70	1.41	1.35
19	B	820	CLA	C3B-C2B	-2.70	1.36	1.40
19	K	1003	CLA	CAD-CBD	-2.70	1.50	1.54
19	A	838	CLA	CHC-C1C	2.70	1.41	1.35
19	J	1102	CLA	CHC-C1C	2.70	1.41	1.35
19	1	504	CLA	CHC-C1C	2.70	1.41	1.35
19	3	308	CLA	CHC-C1C	2.70	1.41	1.35
19	G	203	CLA	CHC-C1C	2.69	1.41	1.35
19	A	840	CLA	CHC-C1C	2.69	1.41	1.35
19	B	816	CLA	CHC-C1C	2.69	1.41	1.35
19	B	818	CLA	CHC-C1C	2.69	1.41	1.35
19	1	507	CLA	CHC-C1C	2.69	1.41	1.35
19	K	1002	CLA	CHC-C1C	2.69	1.41	1.35
19	2	507	CLA	CHC-C1C	2.69	1.41	1.35
19	A	819	CLA	CHC-C1C	2.68	1.41	1.35
19	A	811	CLA	CHC-C1C	2.68	1.41	1.35
19	A	812	CLA	CHC-C1C	2.67	1.41	1.35
19	A	834	CLA	CHC-C1C	2.67	1.41	1.35
19	A	836	CLA	CHC-C1C	2.67	1.41	1.35
19	A	832	CLA	CHC-C1C	2.67	1.41	1.35
19	B	821	CLA	C3B-C2B	-2.67	1.36	1.40
19	2	506	CLA	CHC-C1C	2.67	1.41	1.35
24	B	846	LMT	O3'-C3'	-2.67	1.36	1.43
27	A	801	CL0	CHC-C1C	2.67	1.41	1.35
20	4	314	CHL	C3A-C2A	-2.66	1.47	1.54
19	3	311	CLA	CHC-C1C	2.65	1.41	1.35
19	B	822	CLA	CHC-C1C	2.65	1.41	1.35
19	J	1101	CLA	CHC-C1C	2.65	1.41	1.35
19	1	509	CLA	CHC-C1C	2.65	1.41	1.35
27	A	801	CL0	C1C-NC	-2.65	1.33	1.37
19	4	306	CLA	CHC-C1C	2.65	1.41	1.35
19	2	510	CLA	CHC-C1C	2.64	1.41	1.35
19	A	811	CLA	C3B-C2B	-2.64	1.36	1.40
19	A	812	CLA	C3B-C2B	-2.64	1.36	1.40
19	4	315	CLA	CHC-C1C	2.64	1.41	1.35
19	A	824	CLA	C3B-C2B	-2.64	1.36	1.40
19	B	839	CLA	CHC-C1C	2.64	1.41	1.35
19	2	511	CLA	CHC-C1C	2.63	1.41	1.35
24	G	208	LMT	O3'-C3'	-2.63	1.36	1.43
19	B	835	CLA	C3B-C2B	-2.63	1.36	1.40
24	B	847	LMT	O3'-C3'	-2.63	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	3	313	CLA	CHC-C1C	2.63	1.41	1.35
19	A	830	CLA	CHC-C1C	2.63	1.41	1.35
19	B	837	CLA	CHC-C1C	2.62	1.41	1.35
19	3	307	CLA	C3B-C2B	-2.62	1.36	1.40
19	2	505	CLA	CHC-C1C	2.62	1.41	1.35
19	B	813	CLA	CHC-C1C	2.62	1.41	1.35
19	2	514	CLA	CHC-C1C	2.62	1.41	1.35
19	A	816	CLA	C3B-C2B	-2.62	1.36	1.40
19	B	834	CLA	C3B-C2B	-2.62	1.36	1.40
19	3	307	CLA	CHC-C1C	2.61	1.41	1.35
19	F	303	CLA	CHC-C1C	2.61	1.41	1.35
24	3	318	LMT	O3'-C3'	-2.61	1.36	1.43
19	B	818	CLA	C3B-C2B	-2.60	1.36	1.40
19	A	855	CLA	CHC-C1C	2.60	1.41	1.35
19	4	309	CLA	CHC-C1C	2.60	1.41	1.35
19	1	505	CLA	CHC-C1C	2.60	1.41	1.35
19	4	305	CLA	CHC-C1C	2.60	1.41	1.35
19	4	305	CLA	C3B-C2B	-2.59	1.36	1.40
27	A	801	CL0	C4C-C3C	2.59	1.49	1.45
19	A	834	CLA	C3B-C2B	-2.59	1.36	1.40
19	B	811	CLA	C3B-C2B	-2.59	1.36	1.40
19	A	835	CLA	CHC-C1C	2.59	1.41	1.35
19	A	828	CLA	CHC-C1C	2.58	1.41	1.35
19	H	1000	CLA	CHC-C1C	2.58	1.41	1.35
19	A	825	CLA	CHC-C1C	2.58	1.41	1.35
19	B	806	CLA	CHC-C1C	2.58	1.41	1.35
19	1	506	CLA	CHC-C1C	2.58	1.41	1.35
19	3	312	CLA	CHC-C1C	2.58	1.41	1.35
19	4	318	CLA	CHC-C1C	2.58	1.41	1.35
19	A	814	CLA	CHC-C1C	2.57	1.41	1.35
19	1	506	CLA	C3B-C2B	-2.57	1.36	1.40
19	B	826	CLA	CHC-C1C	2.57	1.41	1.35
19	2	511	CLA	C3B-C2B	-2.57	1.36	1.40
19	4	311	CLA	CHC-C1C	2.57	1.41	1.35
19	F	303	CLA	C3B-C2B	-2.56	1.36	1.40
19	B	804	CLA	CHC-C1C	2.56	1.41	1.35
19	G	201	CLA	CHC-C1C	2.56	1.41	1.35
19	B	829	CLA	CHC-C1C	2.56	1.41	1.35
19	B	815	CLA	CHC-C1C	2.55	1.41	1.35
19	3	316	CLA	CHC-C1C	2.55	1.41	1.35
19	B	827	CLA	CHC-C1C	2.54	1.41	1.35
19	B	805	CLA	C3B-C2B	-2.54	1.36	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	2	519	LMG	C19-C18	-2.54	1.33	1.51
19	A	823	CLA	C3B-C2B	-2.53	1.36	1.40
24	G	209	LMT	O3'-C3'	-2.53	1.37	1.43
24	A	846	LMT	O3'-C3'	-2.53	1.37	1.43
19	B	809	CLA	C3B-C2B	-2.53	1.36	1.40
19	A	837	CLA	C3B-C2B	-2.52	1.36	1.40
19	B	814	CLA	CHC-C1C	2.52	1.41	1.35
19	3	309	CLA	CHC-C1C	2.52	1.41	1.35
19	1	508	CLA	CHC-C1C	2.52	1.41	1.35
19	1	505	CLA	C3B-C2B	-2.52	1.36	1.40
19	2	505	CLA	C3B-C2B	-2.51	1.36	1.40
19	A	809	CLA	CHC-C1C	2.51	1.41	1.35
20	1	521	CHL	C3B-C2B	-2.51	1.36	1.40
19	2	508	CLA	CHC-C1C	2.50	1.41	1.35
24	J	1107	LMT	O3'-C3'	-2.50	1.37	1.43
19	A	820	CLA	CHC-C1C	2.50	1.41	1.35
24	B	847	LMT	O2'-C2'	-2.50	1.37	1.43
19	3	310	CLA	CHC-C1C	2.50	1.41	1.35
19	A	835	CLA	C3B-C2B	-2.49	1.36	1.40
19	A	841	CLA	C3B-C2B	-2.49	1.36	1.40
19	4	310	CLA	C3B-C2B	-2.48	1.36	1.40
19	A	820	CLA	C3B-C2B	-2.48	1.36	1.40
19	A	822	CLA	C3B-C2B	-2.48	1.36	1.40
19	B	808	CLA	C3B-C2B	-2.47	1.36	1.40
19	B	810	CLA	CHC-C1C	2.47	1.41	1.35
20	2	512	CHL	C4B-NB	2.47	1.37	1.35
20	4	313	CHL	C3B-C2B	-2.47	1.36	1.40
19	B	811	CLA	C1C-C2C	2.46	1.49	1.44
19	A	832	CLA	C3B-C2B	-2.45	1.37	1.40
19	1	511	CLA	C3B-C2B	-2.45	1.37	1.40
19	3	312	CLA	C3B-C2B	-2.45	1.37	1.40
19	A	804	CLA	C3B-C2B	-2.45	1.37	1.40
19	L	303	CLA	CHC-C1C	2.45	1.41	1.35
19	1	510	CLA	CHC-C1C	2.42	1.41	1.35
19	A	816	CLA	CHC-C1C	2.42	1.41	1.35
19	A	810	CLA	C3B-C2B	-2.41	1.37	1.40
24	2	523	LMT	O3'-C3'	-2.41	1.37	1.43
24	B	855	LMT	O2B-C2B	-2.41	1.37	1.43
19	K	1003	CLA	C1C-NC	-2.41	1.33	1.38
19	3	311	CLA	C3B-C2B	-2.40	1.37	1.40
20	4	317	CHL	C3B-C2B	-2.40	1.37	1.40
19	4	311	CLA	C3B-C2B	-2.40	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	3	309	CLA	C3B-C2B	-2.40	1.37	1.40
24	A	846	LMT	O3B-C3B	-2.39	1.37	1.43
19	G	204	CLA	C3B-C2B	-2.39	1.37	1.40
19	B	819	CLA	C3B-C2B	-2.39	1.37	1.40
19	3	306	CLA	CHC-C1C	2.39	1.41	1.35
19	B	823	CLA	C3B-C2B	-2.38	1.37	1.40
19	K	1004	CLA	C1C-NC	-2.38	1.33	1.38
19	1	515	CLA	C3B-C2B	-2.38	1.37	1.40
24	J	1107	LMT	O2B-C2B	-2.37	1.37	1.43
19	B	838	CLA	C3B-C2B	-2.36	1.37	1.40
19	L	305	CLA	C3B-C2B	-2.34	1.37	1.40
19	B	819	CLA	C1D-C2D	2.34	1.47	1.42
19	J	1105	CLA	CHC-C1C	2.34	1.41	1.35
24	3	318	LMT	O2'-C2'	-2.33	1.37	1.43
20	4	313	CHL	CHC-C1C	2.33	1.40	1.35
19	A	825	CLA	MG-NC	2.33	2.11	2.06
19	1	507	CLA	C1D-C2D	2.32	1.47	1.42
19	B	817	CLA	C1D-C2D	2.32	1.47	1.42
24	B	855	LMT	O4'-C4B	-2.32	1.37	1.43
19	4	308	CLA	CHC-C1C	2.32	1.40	1.35
24	B	855	LMT	O2'-C2'	-2.32	1.37	1.43
19	B	817	CLA	C3B-C2B	-2.32	1.37	1.40
24	B	846	LMT	O3B-C3B	-2.31	1.37	1.43
19	1	510	CLA	C3B-C2B	-2.31	1.37	1.40
19	K	1003	CLA	C2C-C1C	2.31	1.48	1.43
19	B	830	CLA	C1D-C2D	2.31	1.47	1.42
19	K	1002	CLA	C3B-C2B	-2.29	1.37	1.40
19	4	307	CLA	C1D-C2D	2.28	1.47	1.42
20	2	526	CHL	C3B-C2B	-2.28	1.37	1.40
24	B	855	LMT	O3B-C3B	-2.28	1.37	1.43
20	2	512	CHL	C3D-C2D	-2.27	1.35	1.39
19	L	303	CLA	C3B-C2B	-2.27	1.37	1.40
24	G	208	LMT	O3B-C3B	-2.27	1.37	1.43
19	B	806	CLA	C1D-C2D	2.26	1.47	1.42
19	1	511	CLA	C1D-C2D	2.26	1.47	1.42
24	2	523	LMT	O2B-C2B	-2.26	1.37	1.43
19	2	509	CLA	C1D-C2D	2.26	1.47	1.42
19	4	315	CLA	C1D-C2D	2.25	1.47	1.42
19	F	302	CLA	C1C-C2C	2.25	1.48	1.44
19	B	816	CLA	C3B-C2B	-2.24	1.37	1.40
19	A	836	CLA	MG-NC	2.24	2.11	2.06
24	G	209	LMT	O3B-C3B	-2.24	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	B	846	LMT	O2B-C2B	-2.24	1.37	1.43
19	B	812	CLA	C1C-C2C	2.24	1.48	1.44
19	H	1000	CLA	C3B-C2B	-2.24	1.37	1.40
24	B	847	LMT	O2B-C2B	-2.24	1.37	1.43
19	G	202	CLA	C1D-C2D	2.24	1.47	1.42
24	4	320	LMT	O2'-C2'	-2.23	1.37	1.43
19	K	1004	CLA	C2C-C1C	2.23	1.48	1.43
24	B	846	LMT	O2'-C2'	-2.23	1.37	1.43
19	A	814	CLA	C1D-C2D	2.23	1.47	1.42
19	A	804	CLA	C1D-C2D	2.23	1.47	1.42
19	B	833	CLA	C1D-C2D	2.23	1.47	1.42
19	B	814	CLA	C1D-C2D	2.23	1.47	1.42
24	B	847	LMT	O3B-C3B	-2.23	1.37	1.43
20	1	512	CHL	C3B-C2B	-2.22	1.37	1.40
19	4	309	CLA	C1D-C2D	2.22	1.47	1.42
19	B	804	CLA	C1A-CHA	2.22	1.52	1.43
24	J	1107	LMT	O3B-C3B	-2.22	1.37	1.43
24	G	209	LMT	O2B-C2B	-2.22	1.37	1.43
24	4	320	LMT	O2B-C2B	-2.22	1.37	1.43
19	A	819	CLA	C1D-C2D	2.22	1.47	1.42
19	A	833	CLA	C1C-C2C	2.22	1.48	1.44
24	G	209	LMT	O2'-C2'	-2.21	1.37	1.43
19	A	817	CLA	C3B-C2B	-2.21	1.37	1.40
24	4	320	LMT	O3B-C3B	-2.21	1.37	1.43
20	2	516	CHL	CHC-C1C	2.21	1.40	1.35
24	A	846	LMT	O2B-C2B	-2.21	1.37	1.43
19	3	309	CLA	MG-NC	2.20	2.11	2.06
19	3	316	CLA	C1D-C2D	2.20	1.47	1.42
19	4	312	CLA	C1D-C2D	2.20	1.47	1.42
19	3	308	CLA	C1D-C2D	2.20	1.47	1.42
19	B	812	CLA	C1D-C2D	2.20	1.47	1.42
19	B	828	CLA	C1D-C2D	2.20	1.47	1.42
19	B	836	CLA	C1D-C2D	2.20	1.47	1.42
19	K	1002	CLA	C1D-C2D	2.20	1.47	1.42
19	4	310	CLA	C1C-C2C	2.20	1.48	1.44
24	2	523	LMT	O3B-C3B	-2.19	1.37	1.43
20	4	316	CHL	C2C-C3C	2.19	1.41	1.36
19	B	834	CLA	C1C-C2C	2.19	1.48	1.44
19	A	805	CLA	C1C-C2C	2.19	1.48	1.44
19	3	306	CLA	C1D-C2D	2.19	1.47	1.42
19	2	506	CLA	C1A-CHA	2.18	1.52	1.43
19	3	310	CLA	C1A-CHA	2.18	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	J	1107	LMT	O2'-C2'	-2.18	1.37	1.43
19	A	810	CLA	C1C-C2C	2.18	1.48	1.44
19	4	304	CLA	C1A-CHA	2.18	1.52	1.43
19	F	303	CLA	C1D-C2D	2.18	1.47	1.42
19	H	1000	CLA	C1A-CHA	2.17	1.52	1.43
24	G	208	LMT	O2'-C2'	-2.17	1.37	1.43
19	3	317	CLA	C1C-C2C	2.17	1.48	1.44
19	3	309	CLA	C1A-CHA	2.17	1.52	1.43
24	3	318	LMT	O3B-C3B	-2.17	1.37	1.43
19	B	826	CLA	MG-NC	2.17	2.11	2.06
19	L	303	CLA	C1D-C2D	2.17	1.47	1.42
19	4	306	CLA	C3B-C2B	-2.17	1.37	1.40
19	B	839	CLA	C1D-C2D	2.17	1.47	1.42
19	A	805	CLA	C1D-C2D	2.16	1.47	1.42
19	1	513	CLA	C3B-C2B	-2.16	1.37	1.40
19	3	316	CLA	C3B-C2B	-2.16	1.37	1.40
19	B	813	CLA	C1D-C2D	2.16	1.47	1.42
19	3	312	CLA	C1D-C2D	2.16	1.47	1.42
19	1	505	CLA	C1A-CHA	2.16	1.52	1.43
19	B	807	CLA	C1D-C2D	2.16	1.47	1.42
19	2	510	CLA	C1A-CHA	2.15	1.52	1.43
19	2	504	CLA	C1D-C2D	2.15	1.47	1.42
19	L	301	CLA	C1C-C2C	2.15	1.48	1.44
19	B	814	CLA	C3B-C2B	-2.15	1.37	1.40
19	A	825	CLA	C1D-C2D	2.15	1.47	1.42
19	A	835	CLA	MG-NC	2.15	2.11	2.06
19	1	506	CLA	MG-NC	2.15	2.11	2.06
19	B	840	CLA	C3B-C2B	-2.14	1.37	1.40
19	A	818	CLA	C1C-C2C	2.14	1.48	1.44
24	G	208	LMT	O1'-C1'	-2.14	1.36	1.40
19	3	305	CLA	C1C-C2C	2.14	1.48	1.44
19	A	818	CLA	MG-NC	2.14	2.11	2.06
19	J	1101	CLA	C1D-C2D	2.14	1.47	1.42
19	4	309	CLA	C3B-C2B	-2.14	1.37	1.40
19	A	828	CLA	C3B-C2B	-2.14	1.37	1.40
19	B	807	CLA	C3B-C2B	-2.14	1.37	1.40
19	L	305	CLA	C1D-C2D	2.14	1.47	1.42
19	1	508	CLA	C1A-CHA	2.14	1.52	1.43
19	3	309	CLA	C1D-C2D	2.14	1.47	1.42
19	2	507	CLA	C1D-C2D	2.14	1.47	1.42
19	A	827	CLA	C1C-C2C	2.14	1.48	1.44
19	B	808	CLA	C1D-C2D	2.14	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	841	CLA	C1C-C2C	2.13	1.48	1.44
19	L	305	CLA	MG-NC	2.13	2.11	2.06
19	A	839	CLA	C3B-C2B	-2.13	1.37	1.40
19	A	807	CLA	C1D-C2D	2.13	1.47	1.42
19	3	312	CLA	C1A-CHA	2.13	1.52	1.43
19	A	823	CLA	C1C-C2C	2.13	1.48	1.44
19	L	305	CLA	C1C-C2C	2.13	1.48	1.44
19	B	824	CLA	C1C-C2C	2.13	1.48	1.44
24	A	846	LMT	O2'-C2'	-2.13	1.38	1.43
19	1	516	CLA	C1A-CHA	2.13	1.51	1.43
19	A	834	CLA	C1D-C2D	2.13	1.47	1.42
19	B	805	CLA	C1D-C2D	2.13	1.47	1.42
19	B	831	CLA	C1C-C2C	2.13	1.48	1.44
19	K	1003	CLA	MG-NC	2.13	2.11	2.06
24	2	523	LMT	O2'-C2'	-2.13	1.38	1.43
19	A	835	CLA	C1D-C2D	2.13	1.47	1.42
19	1	509	CLA	C1D-C2D	2.13	1.47	1.42
19	A	825	CLA	C1A-CHA	2.12	1.51	1.43
19	G	203	CLA	C1D-C2D	2.12	1.47	1.42
19	A	820	CLA	C1A-CHA	2.12	1.51	1.43
19	2	508	CLA	C1A-CHA	2.12	1.51	1.43
19	B	823	CLA	C1D-C2D	2.12	1.47	1.42
19	3	313	CLA	C1A-CHA	2.12	1.51	1.43
19	A	822	CLA	C1D-C2D	2.12	1.47	1.42
19	B	824	CLA	C1A-CHA	2.12	1.51	1.43
20	3	314	CHL	CHC-C1C	2.12	1.40	1.35
19	K	1002	CLA	MG-NC	2.11	2.11	2.06
19	K	1004	CLA	MG-NC	2.11	2.11	2.06
19	A	833	CLA	C1D-C2D	2.11	1.47	1.42
19	B	836	CLA	C3B-C2B	-2.11	1.37	1.40
19	4	305	CLA	C1A-CHA	2.11	1.51	1.43
19	1	516	CLA	C3B-C2B	-2.11	1.37	1.40
19	K	1001	CLA	C1D-C2D	2.11	1.47	1.42
19	B	815	CLA	C1D-C2D	2.11	1.47	1.42
19	2	504	CLA	C1A-CHA	2.11	1.51	1.43
19	B	808	CLA	C1C-C2C	2.11	1.48	1.44
19	B	816	CLA	C1A-CHA	2.11	1.51	1.43
19	1	513	CLA	C1D-C2D	2.11	1.47	1.42
19	A	814	CLA	C3B-C2B	-2.11	1.37	1.40
19	1	507	CLA	C3B-C2B	-2.11	1.37	1.40
19	2	506	CLA	MG-NC	2.11	2.11	2.06
19	A	815	CLA	C3B-C2B	-2.11	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	3	312	CLA	MG-NC	2.10	2.11	2.06
19	A	837	CLA	C1D-C2D	2.10	1.47	1.42
19	A	830	CLA	C3B-C2B	-2.10	1.37	1.40
19	1	516	CLA	C1D-C2D	2.10	1.47	1.42
19	A	837	CLA	C1C-C2C	2.10	1.48	1.44
19	A	826	CLA	C3B-C2B	-2.10	1.37	1.40
19	B	814	CLA	MG-NC	2.10	2.11	2.06
19	A	804	CLA	C1C-C2C	2.10	1.48	1.44
19	A	818	CLA	C1A-CHA	2.10	1.51	1.43
19	A	811	CLA	C1A-CHA	2.10	1.51	1.43
19	A	815	CLA	C1D-C2D	2.10	1.47	1.42
19	L	303	CLA	C1A-CHA	2.10	1.51	1.43
24	G	208	LMT	O2B-C2B	-2.10	1.38	1.43
19	B	817	CLA	C1C-C2C	2.10	1.48	1.44
24	G	209	LMT	O1'-C1'	-2.10	1.36	1.40
19	2	505	CLA	C1A-CHA	2.10	1.51	1.43
19	A	826	CLA	C1C-C2C	2.10	1.48	1.44
19	A	812	CLA	C1A-CHA	2.10	1.51	1.43
20	1	521	CHL	CHC-C1C	2.10	1.40	1.35
19	A	836	CLA	C1D-C2D	2.10	1.47	1.42
19	A	855	CLA	C3B-C2B	-2.10	1.37	1.40
19	B	834	CLA	C1D-C2D	2.10	1.47	1.42
24	G	209	LMT	O4'-C4B	-2.10	1.38	1.43
19	A	842	CLA	C1D-C2D	2.09	1.47	1.42
19	4	310	CLA	C1A-CHA	2.09	1.51	1.43
19	B	818	CLA	C1D-C2D	2.09	1.47	1.42
19	A	816	CLA	C1D-C2D	2.09	1.47	1.42
19	A	810	CLA	C1D-C2D	2.09	1.47	1.42
19	A	830	CLA	C1D-C2D	2.09	1.47	1.42
19	1	515	CLA	MG-NC	2.09	2.11	2.06
22	B	845	LMG	O1-C1	2.09	1.43	1.40
24	A	846	LMT	O4'-C4B	-2.09	1.38	1.43
19	A	812	CLA	C1D-C2D	2.09	1.47	1.42
24	2	523	LMT	O4'-C4B	-2.09	1.38	1.43
19	4	305	CLA	C1D-C2D	2.09	1.47	1.42
19	G	201	CLA	C1A-CHA	2.09	1.51	1.43
19	H	1000	CLA	MG-NC	2.08	2.11	2.06
19	A	823	CLA	C1A-CHA	2.08	1.51	1.43
19	A	820	CLA	MG-NC	2.08	2.11	2.06
19	B	821	CLA	C1A-CHA	2.08	1.51	1.43
19	K	1002	CLA	C1A-CHA	2.08	1.51	1.43
19	A	813	CLA	C1C-C2C	2.08	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	818	CLA	C3B-C2B	-2.08	1.37	1.40
19	A	838	CLA	C1D-C2D	2.08	1.47	1.42
19	A	832	CLA	C1D-C2D	2.08	1.47	1.42
19	A	822	CLA	C1C-C2C	2.08	1.48	1.44
19	G	202	CLA	C1C-C2C	2.08	1.48	1.44
19	1	504	CLA	C1D-C2D	2.08	1.47	1.42
19	2	505	CLA	MG-NC	2.08	2.11	2.06
19	2	511	CLA	C1D-C2D	2.08	1.47	1.42
24	3	318	LMT	O4'-C4B	-2.08	1.38	1.43
19	B	813	CLA	C1A-CHA	2.08	1.51	1.43
19	A	803	CLA	C1C-C2C	2.08	1.48	1.44
19	G	202	CLA	C1A-CHA	2.08	1.51	1.43
19	G	202	CLA	C3B-C2B	-2.07	1.37	1.40
19	J	1102	CLA	C1D-C2D	2.07	1.47	1.42
19	A	815	CLA	C1A-CHA	2.07	1.51	1.43
19	3	307	CLA	C1D-C2D	2.07	1.47	1.42
19	3	317	CLA	C1D-C2D	2.07	1.47	1.42
19	B	822	CLA	C1A-CHA	2.07	1.51	1.43
19	A	821	CLA	C1D-C2D	2.07	1.47	1.42
19	G	203	CLA	C1A-CHA	2.07	1.51	1.43
19	B	811	CLA	C1D-C2D	2.07	1.47	1.42
19	A	803	CLA	MG-NC	2.07	2.11	2.06
19	1	508	CLA	C1D-C2D	2.07	1.47	1.42
19	2	508	CLA	C1D-C2D	2.07	1.47	1.42
19	3	311	CLA	MG-NC	2.07	2.11	2.06
19	A	855	CLA	C1D-C2D	2.07	1.47	1.42
19	2	506	CLA	C3B-C2B	-2.07	1.37	1.40
19	1	504	CLA	C1A-CHA	2.07	1.51	1.43
19	L	301	CLA	C3B-C2B	-2.07	1.37	1.40
19	L	304	CLA	C1D-C2D	2.07	1.47	1.42
19	2	514	CLA	C1D-C2D	2.06	1.47	1.42
19	B	818	CLA	C1A-CHA	2.06	1.51	1.43
19	3	313	CLA	C1D-C2D	2.06	1.47	1.42
19	A	802	CLA	C1A-CHA	2.06	1.51	1.43
19	B	829	CLA	C3B-C2B	-2.06	1.37	1.40
19	A	816	CLA	C1A-CHA	2.06	1.51	1.43
19	A	837	CLA	MG-NC	2.06	2.11	2.06
19	G	204	CLA	MG-NC	2.06	2.11	2.06
19	B	825	CLA	C1A-CHA	2.06	1.51	1.43
19	B	840	CLA	C1D-C2D	2.06	1.47	1.42
19	A	814	CLA	MG-NC	2.06	2.11	2.06
19	A	814	CLA	C1A-CHA	2.06	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	835	CLA	C1A-CHA	2.06	1.51	1.43
19	4	304	CLA	C1D-C2D	2.06	1.47	1.42
19	B	827	CLA	C1D-C2D	2.06	1.47	1.42
19	B	809	CLA	C1D-C2D	2.06	1.47	1.42
19	1	509	CLA	C3B-C2B	-2.05	1.37	1.40
19	B	832	CLA	C3B-C2B	-2.05	1.37	1.40
19	B	821	CLA	C1D-C2D	2.05	1.47	1.42
19	A	838	CLA	C1C-C2C	2.05	1.48	1.44
19	B	810	CLA	C1A-CHA	2.05	1.51	1.43
19	B	828	CLA	C1A-CHA	2.05	1.51	1.43
24	J	1107	LMT	O4'-C4B	-2.05	1.38	1.43
20	2	513	CHL	CHC-C1C	2.05	1.40	1.35
19	H	1000	CLA	C1D-C2D	2.05	1.47	1.42
24	B	846	LMT	O4'-C4B	-2.05	1.38	1.43
19	A	806	CLA	C1D-C2D	2.05	1.47	1.42
19	A	854	CLA	C1D-C2D	2.04	1.47	1.42
19	B	830	CLA	MG-NC	2.04	2.11	2.06
19	A	813	CLA	C3B-C2B	-2.04	1.37	1.40
19	A	827	CLA	C1A-CHA	2.04	1.51	1.43
19	2	511	CLA	C1A-CHA	2.04	1.51	1.43
19	A	824	CLA	C1D-C2D	2.04	1.47	1.42
19	3	316	CLA	C1A-CHA	2.04	1.51	1.43
19	B	820	CLA	C1D-C2D	2.04	1.47	1.42
19	1	508	CLA	C3B-C2B	-2.04	1.37	1.40
19	2	514	CLA	C3B-C2B	-2.04	1.37	1.40
19	G	204	CLA	C1C-C2C	2.04	1.48	1.44
19	L	305	CLA	C1A-CHA	2.04	1.51	1.43
19	K	1001	CLA	MG-NC	2.04	2.11	2.06
19	1	513	CLA	C1C-C2C	2.04	1.48	1.44
19	A	817	CLA	C1D-C2D	2.04	1.47	1.42
19	A	833	CLA	C1A-CHA	2.04	1.51	1.43
19	B	829	CLA	C1D-C2D	2.04	1.47	1.42
19	A	819	CLA	C1A-CHA	2.04	1.51	1.43
20	4	317	CHL	CHC-C1C	2.04	1.40	1.35
19	A	823	CLA	C1D-C2D	2.04	1.47	1.42
19	3	316	CLA	MG-NC	2.04	2.11	2.06
19	4	318	CLA	C1A-CHA	2.04	1.51	1.43
19	B	830	CLA	C1C-C2C	2.03	1.48	1.44
19	A	829	CLA	C3B-C2B	-2.03	1.37	1.40
19	G	203	CLA	MG-NC	2.03	2.11	2.06
19	2	510	CLA	MG-NC	2.03	2.11	2.06
19	4	315	CLA	C3B-C2B	-2.03	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	B	838	CLA	C1D-C2D	2.03	1.47	1.42
19	A	842	CLA	C1A-CHA	2.03	1.51	1.43
19	A	824	CLA	C1C-C2C	2.03	1.48	1.44
19	3	310	CLA	C1D-C2D	2.03	1.47	1.42
19	4	305	CLA	MG-NC	2.03	2.11	2.06
19	4	318	CLA	C1D-C2D	2.03	1.47	1.42
19	2	505	CLA	C1D-C2D	2.03	1.47	1.42
19	1	515	CLA	C1C-C2C	2.03	1.48	1.44
19	3	317	CLA	C1A-CHA	2.03	1.51	1.43
19	A	854	CLA	MG-NC	2.02	2.11	2.06
19	A	826	CLA	C1D-C2D	2.02	1.47	1.42
19	2	514	CLA	C1A-CHA	2.02	1.51	1.43
19	G	204	CLA	C1D-C2D	2.02	1.47	1.42
19	B	818	CLA	MG-NC	2.02	2.11	2.06
19	4	306	CLA	C1A-CHA	2.02	1.51	1.43
19	4	309	CLA	C1A-CHA	2.02	1.51	1.43
19	A	804	CLA	C1A-CHA	2.02	1.51	1.43
19	A	855	CLA	MG-NC	2.02	2.11	2.06
24	3	318	LMT	O2B-C2B	-2.02	1.38	1.43
19	B	827	CLA	C1A-CHA	2.02	1.51	1.43
19	A	840	CLA	MG-NC	2.02	2.11	2.06
19	A	828	CLA	C1A-CHA	2.02	1.51	1.43
19	3	311	CLA	C1A-CHA	2.02	1.51	1.43
19	1	509	CLA	MG-NC	2.02	2.11	2.06
19	A	829	CLA	C1D-C2D	2.02	1.47	1.42
19	B	827	CLA	C3B-C2B	-2.02	1.37	1.40
19	B	824	CLA	C1D-C2D	2.02	1.47	1.42
24	B	846	LMT	O1'-C1'	-2.02	1.36	1.40
19	B	831	CLA	C1A-CHA	2.02	1.51	1.43
19	B	837	CLA	C3B-C2B	-2.02	1.37	1.40
19	J	1101	CLA	C3B-C2B	-2.02	1.37	1.40
26	B	854	DGD	CDA-CCA	-2.02	1.33	1.49
19	B	835	CLA	MG-NC	2.02	2.11	2.06
19	B	809	CLA	MG-NC	2.01	2.11	2.06
19	1	505	CLA	MG-NC	2.01	2.11	2.06
19	B	820	CLA	C1C-C2C	2.01	1.48	1.44
19	A	829	CLA	C1C-C2C	2.01	1.48	1.44
19	L	301	CLA	C1D-C2D	2.01	1.47	1.42
19	1	505	CLA	C1D-C2D	2.01	1.47	1.42
22	4	322	LMG	C19-C18	-2.01	1.33	1.49
19	A	810	CLA	MG-NC	2.01	2.11	2.06
19	A	806	CLA	C1A-CHA	2.01	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	B	838	CLA	C1C-C2C	2.01	1.48	1.44
19	4	310	CLA	MG-NC	2.01	2.11	2.06
19	A	825	CLA	C1C-C2C	2.01	1.48	1.44
19	B	822	CLA	C1C-C2C	2.01	1.48	1.44
19	A	827	CLA	C1D-C2D	2.01	1.47	1.42
19	B	826	CLA	C1A-CHA	2.01	1.51	1.43
19	A	829	CLA	C1A-CHA	2.01	1.51	1.43
19	1	506	CLA	C1C-C2C	2.01	1.48	1.44
26	G	207	DGD	CAB-C9B	-2.01	1.33	1.49
26	J	1106	DGD	CAB-C9B	-2.01	1.33	1.49
19	B	837	CLA	C1A-CHA	2.01	1.51	1.43
19	A	815	CLA	C1C-C2C	2.01	1.48	1.44
19	3	307	CLA	C1A-CHA	2.01	1.51	1.43
19	B	816	CLA	C1C-C2C	2.01	1.48	1.44
24	B	847	LMT	O4'-C4B	-2.01	1.38	1.43
24	B	855	LMT	O1'-C1'	-2.01	1.36	1.40
19	B	823	CLA	C1C-C2C	2.01	1.48	1.44
19	B	805	CLA	C1A-CHA	2.01	1.51	1.43
19	F	302	CLA	MG-NC	2.01	2.11	2.06
19	3	306	CLA	C1A-CHA	2.00	1.51	1.43
19	A	842	CLA	MG-NC	2.00	2.11	2.06
19	4	312	CLA	C1A-CHA	2.00	1.51	1.43
19	J	1102	CLA	MG-NC	2.00	2.11	2.06
19	B	827	CLA	MG-NC	2.00	2.11	2.06
19	G	204	CLA	C1A-CHA	2.00	1.51	1.43
19	1	515	CLA	C1D-C2D	2.00	1.47	1.42
19	2	505	CLA	C1C-C2C	2.00	1.48	1.44
26	4	319	DGD	CDA-CCA	-2.00	1.33	1.49
22	A	847	LMG	C40-C39	-2.00	1.33	1.49
19	A	809	CLA	C1A-CHA	2.00	1.51	1.43
19	3	308	CLA	MG-NC	2.00	2.11	2.06
22	F	304	LMG	C19-C18	-2.00	1.33	1.49
19	A	830	CLA	MG-NC	2.00	2.11	2.06

All (1733) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B	802	BCR	C16-C15-C14	18.74	161.87	123.47
18	I	101	BCR	C16-C15-C14	15.15	154.50	123.47
18	B	849	BCR	C21-C20-C19	14.35	168.01	123.22
18	3	304	BCR	C16-C15-C14	13.99	152.13	123.47
18	3	304	BCR	C21-C20-C19	13.99	166.87	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	3	303	BCR	C16-C15-C14	13.92	152.00	123.47
18	2	503	BCR	C16-C15-C14	13.71	151.55	123.47
18	A	856	BCR	C21-C20-C19	13.56	165.52	123.22
18	A	850	BCR	C16-C15-C14	13.51	151.15	123.47
18	A	849	BCR	C11-C10-C9	13.42	146.47	127.31
18	L	302	BCR	C16-C15-C14	13.36	150.85	123.47
18	G	205	BCR	C16-C15-C14	13.36	150.85	123.47
18	4	301	BCR	C16-C15-C14	13.20	150.51	123.47
18	A	850	BCR	C21-C20-C19	13.13	164.19	123.22
18	B	802	BCR	C11-C10-C9	13.00	145.86	127.31
18	L	307	BCR	C16-C15-C14	12.90	149.89	123.47
18	A	856	BCR	C16-C15-C14	12.84	149.78	123.47
18	K	1005	BCR	C16-C15-C14	12.80	149.70	123.47
18	A	849	BCR	C21-C20-C19	12.73	162.95	123.22
18	I	102	BCR	C16-C15-C14	12.41	148.90	123.47
18	L	307	BCR	C11-C10-C9	12.34	144.92	127.31
18	A	848	BCR	C11-C10-C9	12.13	144.62	127.31
18	B	849	BCR	C11-C10-C9	12.06	144.52	127.31
18	2	503	BCR	C11-C10-C9	11.98	144.41	127.31
18	K	1005	BCR	C11-C10-C9	11.98	144.41	127.31
18	L	302	BCR	C21-C20-C19	11.90	160.37	123.22
18	G	205	BCR	C21-C20-C19	11.86	160.23	123.22
18	A	851	BCR	C16-C15-C14	11.81	147.66	123.47
18	A	851	BCR	C11-C10-C9	11.79	144.13	127.31
18	A	848	BCR	C21-C20-C19	11.76	159.91	123.22
18	F	306	BCR	C16-C15-C14	11.69	147.42	123.47
18	B	850	BCR	C16-C15-C14	11.69	147.42	123.47
18	B	853	BCR	C11-C10-C9	11.68	143.98	127.31
18	B	802	BCR	C21-C20-C19	11.67	159.62	123.22
18	L	307	BCR	C21-C20-C19	11.51	159.15	123.22
18	4	301	BCR	C11-C10-C9	11.50	143.73	127.31
18	A	848	BCR	C16-C15-C14	11.42	146.86	123.47
18	I	101	BCR	C11-C10-C9	11.40	143.57	127.31
19	3	310	CLA	C4A-NA-C1A	11.39	111.83	106.71
18	B	851	BCR	C16-C15-C14	11.35	146.73	123.47
18	I	102	BCR	C21-C20-C19	11.21	158.19	123.22
18	B	853	BCR	C16-C15-C14	11.16	146.34	123.47
18	4	301	BCR	C21-C20-C19	11.16	158.05	123.22
23	4	303	XAT	O4-C5-C18	-10.98	101.90	115.06
18	3	303	BCR	C11-C10-C9	10.88	142.83	127.31
18	J	1108	BCR	C21-C20-C19	10.88	157.16	123.22
27	A	801	CL0	C4A-NA-C1A	10.86	111.59	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	F	306	BCR	C21-C20-C19	10.83	157.00	123.22
18	K	1005	BCR	C21-C20-C19	10.72	156.69	123.22
18	L	306	BCR	C21-C20-C19	10.69	156.57	123.22
18	B	856	BCR	C16-C15-C14	10.62	145.23	123.47
18	L	306	BCR	C11-C10-C9	10.60	142.44	127.31
18	B	856	BCR	C21-C20-C19	10.59	156.27	123.22
18	A	856	BCR	C11-C10-C9	10.56	142.38	127.31
18	A	851	BCR	C21-C20-C19	10.55	156.15	123.22
18	B	856	BCR	C11-C10-C9	10.45	142.22	127.31
19	A	828	CLA	C4A-NA-C1A	10.40	111.38	106.71
18	I	101	BCR	C21-C20-C19	10.39	155.65	123.22
18	A	849	BCR	C16-C15-C14	10.39	144.75	123.47
19	2	504	CLA	C4A-NA-C1A	10.35	111.36	106.71
18	A	852	BCR	C16-C15-C14	10.34	144.66	123.47
18	3	304	BCR	C11-C10-C9	10.30	142.01	127.31
18	B	852	BCR	C11-C10-C9	10.28	141.98	127.31
18	2	503	BCR	C21-C20-C19	10.25	155.21	123.22
18	L	306	BCR	C16-C15-C14	10.23	144.42	123.47
18	B	850	BCR	C21-C20-C19	10.21	155.09	123.22
18	B	852	BCR	C16-C15-C14	10.19	144.35	123.47
18	I	102	BCR	C11-C10-C9	10.18	141.84	127.31
18	1	503	BCR	C21-C20-C19	10.16	154.92	123.22
18	F	306	BCR	C11-C10-C9	10.08	141.69	127.31
19	B	803	CLA	C4A-NA-C1A	10.07	111.23	106.71
18	3	303	BCR	C21-C20-C19	9.93	154.22	123.22
18	A	852	BCR	C21-C20-C19	9.89	154.09	123.22
18	B	850	BCR	C11-C10-C9	9.78	141.26	127.31
19	B	804	CLA	C4A-NA-C1A	9.77	111.10	106.71
19	3	305	CLA	C4A-NA-C1A	9.72	111.08	106.71
19	4	318	CLA	C4A-NA-C1A	9.71	111.07	106.71
19	4	304	CLA	C4A-NA-C1A	9.69	111.06	106.71
18	J	1108	BCR	C16-C15-C14	9.65	143.25	123.47
19	2	508	CLA	C4A-NA-C1A	9.64	111.04	106.71
18	B	852	BCR	C20-C19-C18	9.60	153.39	126.42
19	A	803	CLA	C4A-NA-C1A	9.58	111.01	106.71
19	B	810	CLA	C4A-NA-C1A	9.57	111.01	106.71
19	2	506	CLA	C4A-NA-C1A	9.55	111.00	106.71
19	A	840	CLA	C4A-NA-C1A	9.54	110.99	106.71
19	B	824	CLA	C4A-NA-C1A	9.52	110.99	106.71
18	B	849	BCR	C16-C15-C14	9.51	142.96	123.47
18	B	851	BCR	C11-C10-C9	9.51	140.88	127.31
19	3	315	CLA	C4A-NA-C1A	9.51	110.98	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	3	312	CLA	C4A-NA-C1A	9.51	110.98	106.71
19	A	808	CLA	C4A-NA-C1A	9.50	110.97	106.71
19	H	1000	CLA	C4A-NA-C1A	9.48	110.97	106.71
19	4	309	CLA	C4A-NA-C1A	9.48	110.97	106.71
19	G	201	CLA	C4A-NA-C1A	9.44	110.95	106.71
19	A	802	CLA	C4A-NA-C1A	9.43	110.94	106.71
18	A	852	BCR	C20-C19-C18	9.42	152.88	126.42
19	A	810	CLA	C4A-NA-C1A	9.41	110.94	106.71
19	A	854	CLA	C4A-NA-C1A	9.40	110.93	106.71
19	J	1105	CLA	C4A-NA-C1A	9.40	110.93	106.71
18	B	853	BCR	C20-C19-C18	9.40	152.82	126.42
19	A	804	CLA	C4A-NA-C1A	9.40	110.93	106.71
19	B	806	CLA	C4A-NA-C1A	9.38	110.92	106.71
19	B	815	CLA	C4A-NA-C1A	9.38	110.92	106.71
19	B	825	CLA	C4A-NA-C1A	9.38	110.92	106.71
19	L	303	CLA	C4A-NA-C1A	9.37	110.92	106.71
19	2	514	CLA	C4A-NA-C1A	9.37	110.92	106.71
19	B	827	CLA	C4A-NA-C1A	9.37	110.92	106.71
18	B	852	BCR	C21-C20-C19	9.37	152.45	123.22
19	A	811	CLA	C4A-NA-C1A	9.36	110.92	106.71
17	J	1109	LUT	C21-C26-C27	9.34	124.51	112.70
19	4	315	CLA	C4A-NA-C1A	9.34	110.91	106.71
19	B	828	CLA	C4A-NA-C1A	9.34	110.91	106.71
19	J	1102	CLA	C4A-NA-C1A	9.34	110.90	106.71
18	I	101	BCR	C20-C19-C18	9.31	152.58	126.42
18	1	503	BCR	C20-C19-C18	9.30	152.53	126.42
19	2	510	CLA	C4A-NA-C1A	9.29	110.88	106.71
18	F	306	BCR	C20-C19-C18	9.26	152.43	126.42
19	A	820	CLA	C4A-NA-C1A	9.25	110.87	106.71
19	3	306	CLA	C4A-NA-C1A	9.24	110.86	106.71
19	4	311	CLA	C4A-NA-C1A	9.22	110.85	106.71
18	3	303	BCR	C20-C19-C18	9.20	152.25	126.42
19	A	842	CLA	C4A-NA-C1A	9.18	110.83	106.71
19	1	504	CLA	C4A-NA-C1A	9.17	110.83	106.71
19	4	308	CLA	C4A-NA-C1A	9.16	110.82	106.71
19	A	829	CLA	C4A-NA-C1A	9.15	110.82	106.71
19	A	816	CLA	C4A-NA-C1A	9.12	110.81	106.71
19	2	511	CLA	C4A-NA-C1A	9.12	110.81	106.71
19	3	316	CLA	C4A-NA-C1A	9.11	110.80	106.71
19	A	806	CLA	C4A-NA-C1A	9.11	110.80	106.71
19	B	822	CLA	C4A-NA-C1A	9.10	110.80	106.71
19	B	816	CLA	C4A-NA-C1A	9.08	110.79	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	1	505	CLA	C4A-NA-C1A	9.07	110.78	106.71
19	1	516	CLA	C4A-NA-C1A	9.06	110.78	106.71
19	1	506	CLA	C4A-NA-C1A	9.06	110.78	106.71
19	B	821	CLA	C4A-NA-C1A	9.06	110.78	106.71
18	J	1108	BCR	C11-C10-C9	9.03	140.20	127.31
19	A	841	CLA	C4A-NA-C1A	8.99	110.75	106.71
18	B	856	BCR	C20-C19-C18	8.97	151.60	126.42
19	3	313	CLA	C4A-NA-C1A	8.96	110.74	106.71
18	G	205	BCR	C11-C10-C9	8.93	140.06	127.31
19	A	825	CLA	C4A-NA-C1A	8.93	110.72	106.71
19	B	805	CLA	C4A-NA-C1A	8.93	110.72	106.71
19	A	813	CLA	C4A-NA-C1A	8.93	110.72	106.71
19	A	827	CLA	C4A-NA-C1A	8.92	110.72	106.71
19	A	809	CLA	C4A-NA-C1A	8.91	110.71	106.71
19	G	204	CLA	C4A-NA-C1A	8.90	110.71	106.71
19	K	1003	CLA	C4A-NA-C1A	8.89	110.70	106.71
18	A	852	BCR	C11-C10-C9	8.87	139.97	127.31
19	A	839	CLA	C4A-NA-C1A	8.87	110.69	106.71
18	L	302	BCR	C11-C10-C9	8.86	139.96	127.31
19	2	507	CLA	C4A-NA-C1A	8.83	110.68	106.71
19	1	508	CLA	C4A-NA-C1A	8.83	110.67	106.71
19	B	832	CLA	C4A-NA-C1A	8.83	110.67	106.71
18	A	851	BCR	C20-C19-C18	8.79	151.11	126.42
19	A	807	CLA	C4A-NA-C1A	8.78	110.65	106.71
19	L	305	CLA	C4A-NA-C1A	8.78	110.65	106.71
18	B	850	BCR	C20-C19-C18	8.77	151.05	126.42
19	K	1001	CLA	C4A-NA-C1A	8.77	110.65	106.71
19	B	814	CLA	C4A-NA-C1A	8.76	110.65	106.71
18	B	853	BCR	C21-C20-C19	8.76	150.57	123.22
19	B	840	CLA	C4A-NA-C1A	8.76	110.64	106.71
19	1	507	CLA	C4A-NA-C1A	8.75	110.64	106.71
19	J	1101	CLA	C4A-NA-C1A	8.75	110.64	106.71
19	A	812	CLA	C4A-NA-C1A	8.73	110.63	106.71
19	A	834	CLA	C4A-NA-C1A	8.72	110.63	106.71
19	A	832	CLA	C4A-NA-C1A	8.72	110.63	106.71
19	K	1002	CLA	C4A-NA-C1A	8.72	110.63	106.71
19	L	304	CLA	C4A-NA-C1A	8.72	110.63	106.71
19	B	807	CLA	C4A-NA-C1A	8.71	110.62	106.71
19	G	203	CLA	C4A-NA-C1A	8.71	110.62	106.71
19	A	837	CLA	C4A-NA-C1A	8.71	110.62	106.71
19	B	813	CLA	C4A-NA-C1A	8.69	110.61	106.71
19	F	302	CLA	C4A-NA-C1A	8.69	110.61	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	818	CLA	C4A-NA-C1A	8.68	110.61	106.71
19	F	303	CLA	C4A-NA-C1A	8.65	110.60	106.71
18	I	102	BCR	C20-C19-C18	8.65	150.71	126.42
18	L	306	BCR	C20-C19-C18	8.65	150.70	126.42
19	A	814	CLA	C4A-NA-C1A	8.63	110.59	106.71
19	A	831	CLA	C4A-NA-C1A	8.63	110.59	106.71
19	B	826	CLA	C4A-NA-C1A	8.62	110.58	106.71
19	G	202	CLA	C4A-NA-C1A	8.61	110.58	106.71
19	1	513	CLA	C4A-NA-C1A	8.60	110.57	106.71
19	B	833	CLA	C4A-NA-C1A	8.60	110.57	106.71
19	3	311	CLA	C4A-NA-C1A	8.59	110.57	106.71
19	A	815	CLA	C4A-NA-C1A	8.59	110.57	106.71
19	B	836	CLA	C4A-NA-C1A	8.58	110.56	106.71
19	A	855	CLA	C4A-NA-C1A	8.57	110.56	106.71
19	A	824	CLA	C4A-NA-C1A	8.56	110.56	106.71
19	A	838	CLA	C4A-NA-C1A	8.56	110.55	106.71
19	A	826	CLA	C4A-NA-C1A	8.55	110.55	106.71
19	B	831	CLA	C4A-NA-C1A	8.55	110.55	106.71
19	3	317	CLA	C4A-NA-C1A	8.55	110.55	106.71
19	B	823	CLA	C4A-NA-C1A	8.54	110.55	106.71
19	A	819	CLA	C4A-NA-C1A	8.54	110.54	106.71
19	4	305	CLA	C4A-NA-C1A	8.53	110.54	106.71
19	1	509	CLA	C4A-NA-C1A	8.52	110.54	106.71
19	A	836	CLA	C4A-NA-C1A	8.52	110.54	106.71
19	3	309	CLA	C4A-NA-C1A	8.51	110.53	106.71
19	3	307	CLA	C4A-NA-C1A	8.51	110.53	106.71
19	K	1004	CLA	C4A-NA-C1A	8.51	110.53	106.71
19	2	509	CLA	C4A-NA-C1A	8.50	110.53	106.71
19	B	809	CLA	C4A-NA-C1A	8.48	110.52	106.71
19	4	306	CLA	C4A-NA-C1A	8.48	110.52	106.71
19	2	505	CLA	C4A-NA-C1A	8.47	110.51	106.71
19	B	818	CLA	C4A-NA-C1A	8.47	110.51	106.71
19	A	835	CLA	C4A-NA-C1A	8.44	110.50	106.71
19	4	312	CLA	C4A-NA-C1A	8.42	110.49	106.71
19	A	817	CLA	C4A-NA-C1A	8.41	110.49	106.71
18	4	301	BCR	C20-C19-C18	8.39	149.98	126.42
19	4	310	CLA	C4A-NA-C1A	8.37	110.47	106.71
19	A	822	CLA	C4A-NA-C1A	8.37	110.47	106.71
19	A	830	CLA	C4A-NA-C1A	8.36	110.46	106.71
19	A	821	CLA	C4A-NA-C1A	8.34	110.45	106.71
19	1	511	CLA	C4A-NA-C1A	8.34	110.45	106.71
19	A	823	CLA	C4A-NA-C1A	8.33	110.45	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B	839	CLA	C4A-NA-C1A	8.33	110.45	106.71
19	3	308	CLA	C4A-NA-C1A	8.30	110.44	106.71
19	B	834	CLA	C4A-NA-C1A	8.28	110.43	106.71
18	J	1108	BCR	C20-C19-C18	8.27	149.65	126.42
19	A	805	CLA	C4A-NA-C1A	8.27	110.42	106.71
19	4	307	CLA	C4A-NA-C1A	8.24	110.41	106.71
19	B	817	CLA	C4A-NA-C1A	8.24	110.41	106.71
19	B	837	CLA	C4A-NA-C1A	8.23	110.41	106.71
18	A	850	BCR	C11-C10-C9	8.19	139.00	127.31
19	B	820	CLA	C4A-NA-C1A	8.17	110.38	106.71
19	L	301	CLA	C4A-NA-C1A	8.16	110.37	106.71
19	B	808	CLA	C4A-NA-C1A	8.15	110.37	106.71
18	L	307	BCR	C20-C19-C18	8.14	149.29	126.42
19	B	835	CLA	C4A-NA-C1A	8.14	110.37	106.71
19	A	833	CLA	C4A-NA-C1A	8.13	110.36	106.71
18	B	849	BCR	C15-C14-C13	8.03	138.77	127.31
19	B	812	CLA	C4A-NA-C1A	8.02	110.31	106.71
19	B	819	CLA	C4A-NA-C1A	8.01	110.31	106.71
19	1	510	CLA	C4A-NA-C1A	7.96	110.28	106.71
19	1	515	CLA	C4A-NA-C1A	7.94	110.28	106.71
19	B	838	CLA	C4A-NA-C1A	7.93	110.27	106.71
23	4	303	XAT	C18-C5-C4	7.84	123.10	114.28
19	B	829	CLA	C4A-NA-C1A	7.84	110.23	106.71
19	B	830	CLA	C4A-NA-C1A	7.82	110.22	106.71
19	B	811	CLA	C4A-NA-C1A	7.59	110.12	106.71
18	B	802	BCR	C15-C14-C13	-7.54	116.55	127.31
18	A	848	BCR	C20-C19-C18	7.50	147.49	126.42
19	1	510	CLA	O2D-CGD-CBD	7.23	124.11	111.27
17	1	502	LUT	C21-C26-C27	7.15	121.73	112.70
18	K	1005	BCR	C20-C19-C18	7.07	146.28	126.42
18	B	849	BCR	C12-C13-C14	6.94	129.59	118.94
18	A	850	BCR	C20-C19-C18	6.89	145.77	126.42
19	1	510	CLA	O2D-CGD-O1D	-6.77	110.60	123.84
18	G	205	BCR	C20-C19-C18	6.77	145.43	126.42
18	B	851	BCR	C21-C20-C19	6.72	144.20	123.22
18	L	302	BCR	C20-C19-C18	6.70	145.23	126.42
19	4	304	CLA	O2A-C1-C2	6.60	125.97	108.64
26	4	319	DGD	C3G-O3G-C1D	-6.56	100.92	113.74
18	2	503	BCR	C20-C19-C18	6.44	144.50	126.42
19	4	308	CLA	O2A-C1-C2	6.34	125.31	108.64
18	A	849	BCR	C20-C19-C18	6.33	144.20	126.42
17	2	501	LUT	C21-C26-C25	6.23	122.57	111.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B	802	BCR	C20-C19-C18	6.16	143.71	126.42
17	1	501	LUT	C21-C26-C25	6.13	122.40	111.42
19	L	301	CLA	O2A-C1-C2	6.09	124.64	108.64
18	A	856	BCR	C20-C19-C18	6.06	143.44	126.42
17	3	301	LUT	C21-C26-C25	5.99	122.15	111.42
19	B	817	CLA	O2A-C1-C2	5.97	124.34	108.64
19	A	809	CLA	O2A-C1-C2	5.93	124.21	108.64
18	3	304	BCR	C20-C19-C18	5.84	142.81	126.42
19	2	507	CLA	O2A-C1-C2	5.81	123.89	108.64
19	1	506	CLA	O2A-C1-C2	5.80	123.88	108.64
18	B	849	BCR	C19-C18-C17	5.78	127.80	118.94
19	3	307	CLA	O2A-C1-C2	5.77	123.79	108.64
19	B	819	CLA	O2A-C1-C2	5.76	123.77	108.64
19	4	305	CLA	O2A-C1-C2	5.71	123.65	108.64
19	J	1105	CLA	CMA-C3A-C4A	5.67	127.01	111.77
19	B	838	CLA	O2A-C1-C2	5.64	123.47	108.64
19	3	308	CLA	O2A-C1-C2	5.62	123.42	108.64
18	B	849	BCR	C36-C18-C19	-5.56	109.32	118.08
19	A	855	CLA	O2A-C1-C2	5.50	123.09	108.64
19	B	811	CLA	O2A-C1-C2	5.49	123.06	108.64
17	4	302	LUT	C21-C26-C27	5.47	119.62	112.70
19	1	508	CLA	O2A-C1-C2	5.45	122.95	108.64
20	4	314	CHL	C1B-CHB-C4A	-5.44	119.34	130.12
23	2	502	XAT	C18-C5-C4	5.42	120.37	114.28
19	B	807	CLA	O2A-C1-C2	5.41	122.86	108.64
19	B	837	CLA	O2A-C1-C2	5.39	122.81	108.64
19	1	509	CLA	O2A-C1-C2	5.39	122.80	108.64
19	A	834	CLA	O2A-C1-C2	5.38	122.78	108.64
19	B	810	CLA	O2A-C1-C2	5.37	122.74	108.64
17	4	302	LUT	C21-C26-C25	5.34	120.98	111.42
19	3	309	CLA	O2A-C1-C2	5.33	122.65	108.64
19	B	804	CLA	O2A-C1-C2	5.33	122.63	108.64
19	B	808	CLA	O2A-C1-C2	5.32	122.62	108.64
27	A	801	CL0	O2D-CGD-CBD	5.32	120.72	111.27
19	J	1101	CLA	O2A-C1-C2	5.29	122.53	108.64
23	4	303	XAT	C38-C25-C24	5.27	120.20	114.28
19	L	304	CLA	O2A-C1-C2	5.24	122.40	108.64
19	A	835	CLA	O2A-C1-C2	5.24	122.39	108.64
19	A	807	CLA	O2A-C1-C2	5.23	122.37	108.64
19	B	839	CLA	O2A-C1-C2	5.18	122.25	108.64
19	B	826	CLA	O2A-C1-C2	5.18	122.24	108.64
19	B	832	CLA	O2D-CGD-CBD	5.16	120.44	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B	849	BCR	C35-C13-C14	-5.16	115.69	122.92
19	A	806	CLA	O2A-C1-C2	5.15	122.17	108.64
19	A	828	CLA	O2A-C1-C2	5.15	122.17	108.64
19	B	824	CLA	O2A-C1-C2	5.15	122.16	108.64
19	3	315	CLA	O2A-C1-C2	5.15	122.16	108.64
19	2	510	CLA	O2A-C1-C2	5.12	122.08	108.64
19	B	816	CLA	O2A-C1-C2	5.11	122.08	108.64
19	A	831	CLA	O2A-C1-C2	5.11	122.07	108.64
19	B	823	CLA	O2A-C1-C2	5.10	122.04	108.64
30	F	301	ZEX	C28-C27-C26	-5.10	118.38	127.09
19	A	817	CLA	O2A-C1-C2	5.09	122.02	108.64
19	H	1000	CLA	O2A-C1-C2	5.09	122.02	108.64
19	2	511	CLA	O2A-C1-C2	5.09	122.02	108.64
19	A	804	CLA	O2A-C1-C2	5.06	121.94	108.64
19	A	827	CLA	O2A-C1-C2	5.04	121.89	108.64
19	A	812	CLA	O2A-C1-C2	5.04	121.88	108.64
21	B	842	LHG	O7-C7-C8	5.02	120.33	111.09
19	A	818	CLA	O2A-C1-C2	5.02	121.83	108.64
19	4	310	CLA	O2A-C1-C2	5.02	121.83	108.64
19	A	811	CLA	O2A-C1-C2	5.00	121.77	108.64
19	A	824	CLA	O2A-C1-C2	4.99	121.74	108.64
19	1	507	CLA	O2A-C1-C2	4.98	121.73	108.64
20	2	512	CHL	C1B-CHB-C4A	-4.98	120.26	130.12
19	A	826	CLA	O2A-C1-C2	4.96	121.67	108.64
19	4	307	CLA	O2A-C1-C2	4.95	121.64	108.64
19	4	306	CLA	O2A-C1-C2	4.95	121.64	108.64
19	A	832	CLA	O2A-C1-C2	4.94	121.62	108.64
19	B	815	CLA	O2A-C1-C2	4.93	121.60	108.64
19	A	825	CLA	O2A-C1-C2	4.92	121.58	108.64
19	3	305	CLA	O2D-CGD-CBD	4.92	120.01	111.27
19	A	814	CLA	O2D-CGD-CBD	4.90	119.97	111.27
17	3	301	LUT	C21-C26-C27	4.88	118.88	112.70
19	1	504	CLA	O2A-C1-C2	4.87	121.43	108.64
19	A	805	CLA	O2A-C1-C2	4.87	121.42	108.64
19	2	508	CLA	O2A-C1-C2	4.86	121.41	108.64
19	A	836	CLA	O2A-C1-C2	4.86	121.41	108.64
19	B	805	CLA	O2A-C1-C2	4.84	121.36	108.64
19	2	506	CLA	O2A-C1-C2	4.84	121.35	108.64
19	3	305	CLA	O2A-C1-C2	4.82	121.30	108.64
19	2	505	CLA	O2A-C1-C2	4.80	121.25	108.64
19	K	1002	CLA	O2A-C1-C2	4.78	121.20	108.64
19	A	842	CLA	O2A-C1-C2	4.78	121.20	108.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	838	CLA	O2A-C1-C2	4.78	121.20	108.64
19	2	509	CLA	O2A-C1-C2	4.77	121.17	108.64
19	B	830	CLA	O2A-C1-C2	4.77	121.17	108.64
19	B	835	CLA	O2A-C1-C2	4.76	121.13	108.64
19	1	516	CLA	O2A-C1-C2	4.74	121.09	108.64
23	2	502	XAT	C38-C25-C24	4.74	119.61	114.28
19	B	814	CLA	O2A-C1-C2	4.73	121.07	108.64
19	B	828	CLA	O2A-C1-C2	4.72	121.05	108.64
19	G	202	CLA	O2A-C1-C2	4.72	121.05	108.64
19	A	814	CLA	O2A-C1-C2	4.72	121.04	108.64
19	A	810	CLA	O2A-C1-C2	4.71	121.03	108.64
21	1	520	LHG	O7-C7-C8	4.71	121.66	111.50
17	1	502	LUT	C21-C26-C25	4.71	119.86	111.42
19	A	822	CLA	O2A-C1-C2	4.71	121.01	108.64
19	B	812	CLA	O2A-C1-C2	4.70	120.98	108.64
19	F	303	CLA	O2A-C1-C2	4.69	120.96	108.64
19	2	514	CLA	O2A-C1-C2	4.67	120.92	108.64
19	A	819	CLA	O2A-C1-C2	4.67	120.92	108.64
19	A	808	CLA	O2A-C1-C2	4.66	120.89	108.64
19	A	803	CLA	O2A-C1-C2	4.65	120.87	108.64
30	F	301	ZEX	C15-C14-C13	-4.61	120.74	127.31
19	A	833	CLA	O2A-C1-C2	4.60	120.73	108.64
19	A	825	CLA	O2D-CGD-CBD	4.60	119.44	111.27
21	A	845	LHG	O7-C7-C8	4.59	121.39	111.50
19	A	830	CLA	O2D-CGD-CBD	4.59	119.42	111.27
19	A	833	CLA	O2D-CGD-CBD	4.58	119.41	111.27
19	A	820	CLA	O2A-C1-C2	4.57	120.66	108.64
19	4	315	CLA	O2A-C1-C2	4.57	120.64	108.64
18	I	101	BCR	C1-C6-C5	-4.57	116.18	122.61
18	1	503	BCR	C38-C26-C25	-4.56	119.41	124.53
22	B	845	LMG	O7-C10-C11	4.54	121.28	111.50
19	B	822	CLA	O2A-C1-C2	4.54	120.56	108.64
19	B	829	CLA	O2D-CGD-CBD	4.53	119.33	111.27
19	B	827	CLA	O2A-C1-C2	4.53	120.55	108.64
19	B	831	CLA	O2A-C1-C2	4.52	120.53	108.64
19	A	830	CLA	O2A-C1-C2	4.52	120.50	108.64
19	A	813	CLA	O2D-CGD-CBD	4.52	119.29	111.27
19	2	504	CLA	O2A-C1-C2	4.50	120.47	108.64
22	F	304	LMG	O7-C10-C11	4.47	121.13	111.50
17	2	501	LUT	C21-C26-C27	4.46	118.34	112.70
17	3	302	LUT	C21-C26-C27	4.46	118.34	112.70
19	K	1003	CLA	CAD-C3D-C2D	4.46	143.55	132.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	G	207	DGD	O2G-C1B-C2B	4.46	121.11	111.50
19	1	513	CLA	O2A-C1-C2	4.46	120.34	108.64
23	4	303	XAT	O4-C5-C4	-4.45	110.04	113.38
22	G	206	LMG	O7-C10-C11	4.45	121.09	111.50
19	A	823	CLA	O2A-C1-C2	4.45	120.33	108.64
19	4	309	CLA	CMB-C2B-C1B	-4.45	121.63	128.46
19	B	815	CLA	O2D-CGD-CBD	4.42	119.11	111.27
19	B	833	CLA	O2A-C1-C2	4.39	120.19	108.64
30	F	301	ZEX	C7-C8-C9	-4.39	119.60	126.23
19	B	840	CLA	O2A-C1-C2	4.37	120.11	108.64
19	K	1004	CLA	CAD-C3D-C2D	4.36	143.31	132.79
19	B	836	CLA	O2A-C1-C2	4.33	120.01	108.64
19	A	829	CLA	O2A-C1-C2	4.33	120.01	108.64
19	3	310	CLA	O2A-C1-C2	4.32	119.98	108.64
19	A	839	CLA	O2A-C1-C2	4.30	119.94	108.64
19	3	313	CLA	O2A-C1-C2	4.29	119.91	108.64
19	B	804	CLA	O2D-CGD-CBD	4.27	118.85	111.27
19	B	829	CLA	O2A-C1-C2	4.26	119.84	108.64
19	A	808	CLA	O2D-CGD-CBD	4.26	118.84	111.27
19	B	832	CLA	O2A-C1-C2	4.25	119.81	108.64
19	A	837	CLA	O2A-C1-C2	4.23	119.75	108.64
19	J	1101	CLA	O2D-CGD-CBD	4.23	118.78	111.27
19	F	302	CLA	O2A-C1-C2	4.21	119.69	108.64
19	B	824	CLA	O2D-CGD-CBD	4.19	118.72	111.27
18	B	802	BCR	C35-C13-C14	-4.18	117.06	122.92
19	A	804	CLA	O2D-CGD-CBD	4.18	118.69	111.27
19	B	809	CLA	O2A-C1-C2	4.17	119.61	108.64
19	B	830	CLA	O2D-CGD-CBD	4.17	118.68	111.27
22	F	305	LMG	O7-C10-C11	4.16	120.47	111.50
27	A	801	CL0	O2A-C1-C2	4.16	119.56	108.64
19	2	507	CLA	O2D-CGD-CBD	4.15	118.64	111.27
19	B	820	CLA	O2A-C1-C2	4.14	119.51	108.64
19	2	511	CLA	O2D-CGD-CBD	4.13	118.60	111.27
19	L	303	CLA	O2A-C1-C2	4.12	119.46	108.64
19	1	504	CLA	O2D-CGD-CBD	4.12	118.59	111.27
19	4	318	CLA	O2A-C1-C2	4.10	119.42	108.64
22	J	1104	LMG	O7-C10-C11	4.10	120.34	111.50
18	B	849	BCR	C20-C19-C18	4.10	137.93	126.42
19	L	305	CLA	O2A-C1-C2	4.09	119.40	108.64
19	4	307	CLA	O2D-CGD-CBD	4.09	118.53	111.27
19	A	840	CLA	O2A-C1-C2	4.08	119.36	108.64
19	A	841	CLA	O2A-C1-C2	4.07	119.34	108.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	854	CLA	O2D-CGD-CBD	4.07	118.50	111.27
23	4	303	XAT	C7-C8-C9	-4.06	119.22	125.53
19	4	312	CLA	O2D-CGD-CBD	4.05	118.47	111.27
22	1	518	LMG	O7-C10-C11	4.04	120.21	111.50
19	3	308	CLA	O2D-CGD-CBD	4.04	118.45	111.27
30	F	301	ZEX	C31-C30-C29	-4.04	121.54	127.31
19	L	301	CLA	O2D-CGD-CBD	4.04	118.45	111.27
22	2	519	LMG	O7-C10-C11	4.04	120.20	111.50
18	3	304	BCR	C39-C30-C25	-4.02	103.78	110.30
18	A	852	BCR	C15-C14-C13	4.01	133.04	127.31
19	B	825	CLA	O2D-CGD-CBD	4.01	118.40	111.27
19	4	309	CLA	O2A-C1-C2	4.00	119.15	108.64
20	2	512	CHL	CMA-C3A-C4A	3.99	122.49	111.77
17	4	302	LUT	C22-C23-C24	-3.98	107.21	111.74
20	1	514	CHL	C3C-C4C-NC	-3.98	106.11	110.57
17	J	1109	LUT	C21-C26-C25	3.98	118.54	111.42
19	A	821	CLA	O2A-C1-C2	3.95	119.01	108.64
19	B	829	CLA	CMB-C2B-C1B	-3.94	122.41	128.46
19	B	818	CLA	O2D-CGD-CBD	3.93	118.25	111.27
18	B	849	BCR	C11-C12-C13	-3.93	115.38	126.42
20	4	317	CHL	C3C-C4C-NC	-3.93	106.17	110.57
18	L	306	BCR	C15-C14-C13	3.91	132.90	127.31
21	1	517	LHG	O7-C7-C8	3.91	119.93	111.50
21	B	843	LHG	O7-C7-C8	3.91	119.92	111.50
17	2	501	LUT	C7-C8-C9	-3.90	120.34	126.23
18	A	851	BCR	C38-C26-C25	-3.90	120.15	124.53
19	B	803	CLA	O2A-C1-C2	3.90	118.88	108.64
19	B	821	CLA	O2D-CGD-CBD	3.90	118.19	111.27
18	4	301	BCR	C38-C26-C25	-3.89	120.16	124.53
26	B	801	DGD	O2G-C1B-C2B	3.88	119.87	111.50
19	A	809	CLA	O2D-CGD-CBD	3.88	118.16	111.27
19	4	308	CLA	O2D-CGD-CBD	3.86	118.13	111.27
20	2	526	CHL	C3C-C4C-NC	-3.86	106.25	110.57
19	B	834	CLA	O2A-C1-C2	3.85	118.76	108.64
17	3	302	LUT	C21-C26-C25	3.84	118.30	111.42
19	A	802	CLA	C1-C2-C3	3.81	132.63	126.04
19	B	806	CLA	O2D-CGD-CBD	3.81	118.04	111.27
19	A	813	CLA	O2A-C1-C2	3.81	118.64	108.64
23	2	502	XAT	C18-C5-C6	-3.81	115.88	122.26
19	B	818	CLA	O2A-C1-C2	3.80	118.63	108.64
19	B	817	CLA	O2D-CGD-CBD	3.80	118.02	111.27
19	B	813	CLA	O2D-CGD-CBD	3.80	118.01	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	805	CLA	O2D-CGD-CBD	3.78	117.99	111.27
21	2	517	LHG	O7-C7-C8	3.78	119.64	111.50
17	2	501	LUT	C22-C23-C24	-3.77	107.45	111.74
29	A	844	PQN	C14-C13-C15	3.77	121.61	115.27
17	4	302	LUT	C37-C21-C26	3.76	115.25	109.55
20	3	314	CHL	C3C-C4C-NC	-3.76	106.35	110.57
19	B	826	CLA	OBD-CAD-C3D	-3.76	121.73	127.98
19	A	831	CLA	O2D-CGD-CBD	3.76	117.95	111.27
18	L	302	BCR	C40-C30-C25	-3.76	104.20	110.30
19	G	204	CLA	O2D-CGD-CBD	3.76	117.95	111.27
19	B	820	CLA	O2D-CGD-CBD	3.76	117.94	111.27
19	G	201	CLA	O2D-CGD-CBD	3.76	117.94	111.27
20	4	316	CHL	C1-O2A-CGA	3.76	126.30	116.44
19	3	309	CLA	O2D-CGD-CBD	3.75	117.94	111.27
19	B	825	CLA	O2A-C1-C2	3.75	118.50	108.64
19	2	506	CLA	O2D-CGD-CBD	3.75	117.93	111.27
19	3	313	CLA	O2D-CGD-CBD	3.75	117.92	111.27
19	A	826	CLA	O2D-CGD-CBD	3.74	117.92	111.27
17	1	501	LUT	C21-C26-C27	3.74	117.43	112.70
19	B	805	CLA	O2D-CGD-CBD	3.74	117.91	111.27
19	F	302	CLA	O2D-CGD-CBD	3.74	117.91	111.27
19	3	316	CLA	O2D-CGD-CBD	3.73	117.90	111.27
19	B	809	CLA	O2D-CGD-CBD	3.72	117.89	111.27
19	3	312	CLA	O2A-C1-C2	3.71	122.04	109.49
19	B	816	CLA	O2D-CGD-CBD	3.70	117.84	111.27
18	B	802	BCR	C19-C18-C17	3.70	124.61	118.94
19	A	810	CLA	O2D-CGD-CBD	3.70	117.84	111.27
19	2	514	CLA	O2D-CGD-CBD	3.67	117.79	111.27
27	A	801	CL0	C1-C2-C3	-3.66	119.71	126.04
19	A	830	CLA	CMB-C2B-C1B	-3.66	122.84	128.46
19	4	318	CLA	O2D-CGD-CBD	3.66	117.77	111.27
19	1	511	CLA	O2D-CGD-CBD	3.65	117.76	111.27
21	A	853	LHG	O7-C7-C8	3.65	119.37	111.50
22	B	844	LMG	O7-C10-C11	3.65	119.36	111.50
17	1	501	LUT	C22-C23-C24	-3.64	107.60	111.74
20	1	512	CHL	C1B-CHB-C4A	-3.64	122.92	130.12
19	G	203	CLA	O2D-CGD-CBD	3.61	117.69	111.27
22	J	1103	LMG	O7-C10-C11	3.61	119.27	111.50
20	1	521	CHL	C3C-C4C-NC	-3.60	106.53	110.57
19	A	834	CLA	O2D-CGD-CBD	3.60	117.66	111.27
19	A	828	CLA	O2D-CGD-CBD	3.59	117.65	111.27
26	J	1106	DGD	O2G-C1B-C2B	3.59	119.24	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	K	1004	CLA	CBD-CAD-C3D	3.59	106.91	104.34
22	A	847	LMG	O7-C10-C11	3.59	119.23	111.50
19	B	826	CLA	O2D-CGD-CBD	3.58	117.64	111.27
29	B	841	PQN	C11-C12-C13	-3.58	120.83	126.79
19	4	311	CLA	O2D-CGD-CBD	3.58	117.63	111.27
19	4	305	CLA	O2D-CGD-CBD	3.57	117.62	111.27
19	A	840	CLA	O2D-CGD-CBD	3.57	117.60	111.27
19	A	829	CLA	O2D-CGD-CBD	3.56	117.60	111.27
18	4	301	BCR	C30-C25-C24	3.56	125.85	115.78
18	A	851	BCR	C40-C30-C25	-3.56	104.53	110.30
17	4	302	LUT	C7-C8-C9	-3.56	120.86	126.23
19	3	308	CLA	CMA-C3A-C4A	3.55	121.32	111.77
19	4	304	CLA	OBD-CAD-C3D	-3.55	122.09	127.98
19	1	505	CLA	O2D-CGD-CBD	3.55	117.57	111.27
22	G	210	LMG	O7-C10-C11	3.55	120.69	110.80
19	J	1105	CLA	O2A-C1-C2	3.54	117.95	108.64
19	A	836	CLA	O2D-CGD-CBD	3.54	117.57	111.27
19	B	811	CLA	O2D-CGD-CBD	3.54	117.57	111.27
18	J	1108	BCR	C15-C14-C13	3.54	132.36	127.31
19	3	306	CLA	O2A-C1-C2	3.53	117.92	108.64
19	L	304	CLA	O2D-CGD-CBD	3.53	117.54	111.27
26	B	801	DGD	O3G-C1D-C2D	3.53	113.81	108.30
19	4	306	CLA	O2D-CGD-CBD	3.52	117.53	111.27
18	B	851	BCR	C20-C19-C18	3.52	136.31	126.42
22	2	518	LMG	O7-C10-C11	3.52	120.60	110.80
19	L	305	CLA	O2D-CGD-CBD	3.51	117.50	111.27
19	A	803	CLA	O2D-CGD-CBD	3.50	117.49	111.27
18	B	802	BCR	C12-C13-C14	3.50	124.31	118.94
19	A	841	CLA	O2D-CGD-CBD	3.50	117.49	111.27
18	B	802	BCR	C34-C9-C10	-3.50	118.02	122.92
19	B	833	CLA	O2D-CGD-CBD	3.50	117.48	111.27
20	1	512	CHL	CMA-C3A-C4A	3.49	121.15	111.77
19	1	507	CLA	O2D-CGD-CBD	3.49	117.47	111.27
20	2	516	CHL	C3C-C4C-NC	-3.49	106.66	110.57
19	L	303	CLA	O2D-CGD-CBD	3.49	117.46	111.27
17	3	301	LUT	C22-C23-C24	-3.48	107.78	111.74
19	3	317	CLA	O2D-CGD-CBD	3.47	117.44	111.27
19	3	312	CLA	O2D-CGD-CBD	3.47	117.44	111.27
18	2	503	BCR	C40-C30-C25	-3.47	104.67	110.30
19	B	814	CLA	O2D-CGD-CBD	3.47	117.43	111.27
19	A	838	CLA	O2D-CGD-CBD	3.47	117.43	111.27
21	1	517	LHG	C5-O7-C7	-3.46	109.26	117.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	K	1001	CLA	O2D-CGD-CBD	3.46	117.42	111.27
19	B	808	CLA	O2D-CGD-CBD	3.46	117.41	111.27
18	3	304	BCR	C30-C25-C24	3.45	125.53	115.78
19	J	1105	CLA	O2D-CGD-CBD	3.44	117.38	111.27
20	2	512	CHL	C1D-CHD-C4C	-3.44	118.02	122.56
18	L	302	BCR	C19-C18-C17	3.44	124.22	118.94
17	1	502	LUT	C7-C8-C9	-3.44	121.04	126.23
19	2	505	CLA	O2D-CGD-CBD	3.43	117.37	111.27
19	J	1105	CLA	CAC-C3C-C2C	3.43	133.40	127.53
19	4	304	CLA	O2D-CGD-CBD	3.43	117.36	111.27
18	B	856	BCR	C2-C1-C6	3.42	115.75	110.48
19	2	504	CLA	O2D-CGD-CBD	3.41	117.33	111.27
19	G	202	CLA	O2D-CGD-CBD	3.41	117.32	111.27
19	B	819	CLA	O2D-CGD-CBD	3.41	117.32	111.27
19	1	509	CLA	O2D-CGD-CBD	3.41	117.32	111.27
22	G	210	LMG	O8-C28-C29	3.40	120.30	111.38
19	A	816	CLA	O2D-CGD-CBD	3.40	117.30	111.27
19	4	312	CLA	CAA-CBA-CGA	-3.40	103.33	113.25
19	A	807	CLA	O2D-CGD-CBD	3.40	117.30	111.27
18	A	849	BCR	C15-C14-C13	3.39	132.15	127.31
19	1	510	CLA	OBD-CAD-C3D	-3.39	122.35	127.98
18	B	802	BCR	C36-C18-C19	-3.39	112.74	118.08
20	3	314	CHL	C1B-CHB-C4A	-3.39	123.41	130.12
19	A	832	CLA	O2D-CGD-CBD	3.38	117.28	111.27
18	3	304	BCR	C30-C25-C26	-3.38	117.85	122.61
19	A	821	CLA	O2D-CGD-CBD	3.38	117.27	111.27
20	4	313	CHL	C3C-C4C-NC	-3.38	106.78	110.57
19	A	820	CLA	O2D-CGD-CBD	3.37	117.26	111.27
19	A	823	CLA	O2D-CGD-CBD	3.37	117.26	111.27
18	I	101	BCR	C40-C30-C25	-3.37	104.83	110.30
26	B	854	DGD	O2G-C1B-C2B	3.36	118.75	111.50
18	2	503	BCR	C8-C7-C6	3.36	136.65	127.20
22	4	322	LMG	O7-C10-C11	3.36	118.75	111.50
22	2	518	LMG	O8-C28-C29	3.36	120.19	111.38
19	B	806	CLA	O2A-C1-C2	3.36	117.46	108.64
19	A	811	CLA	O2D-CGD-CBD	3.36	117.23	111.27
19	A	817	CLA	O2D-CGD-CBD	3.35	117.22	111.27
20	4	314	CHL	CHD-C4C-C3C	3.35	129.76	124.84
19	4	315	CLA	O2D-CGD-CBD	3.35	117.22	111.27
19	B	819	CLA	O2A-CGA-CBA	3.35	122.41	111.91
19	B	839	CLA	O2D-CGD-CBD	3.34	117.21	111.27
19	B	822	CLA	O2D-CGD-CBD	3.34	117.20	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B	836	CLA	O2D-CGD-CBD	3.33	117.19	111.27
20	4	317	CHL	C1B-CHB-C4A	-3.33	123.53	130.12
20	2	513	CHL	C3C-C4C-NC	-3.32	106.85	110.57
19	4	312	CLA	O2A-C1-C2	3.32	117.36	108.64
19	2	510	CLA	O2D-CGD-CBD	3.32	117.16	111.27
19	A	837	CLA	O2D-CGD-CBD	3.32	117.16	111.27
19	4	309	CLA	CAA-CBA-CGA	-3.31	103.57	113.25
19	A	819	CLA	O2D-CGD-CBD	3.31	117.14	111.27
19	A	802	CLA	O2D-CGD-CBD	3.31	117.14	111.27
18	B	850	BCR	C40-C30-C25	-3.31	104.94	110.30
18	3	303	BCR	C38-C26-C25	-3.30	120.82	124.53
19	B	835	CLA	O2D-CGD-CBD	3.30	117.13	111.27
19	2	509	CLA	O2D-CGD-CBD	3.30	117.13	111.27
19	4	309	CLA	O2D-CGD-CBD	3.30	117.13	111.27
19	K	1003	CLA	CBD-CAD-C3D	3.30	106.70	104.34
19	3	311	CLA	O2D-CGD-CBD	3.29	117.12	111.27
18	B	851	BCR	C38-C26-C25	-3.29	120.83	124.53
19	2	506	CLA	CMA-C3A-C4A	3.29	120.62	111.77
19	3	305	CLA	O1D-CGD-CBD	-3.29	117.75	124.48
19	3	308	CLA	O2A-CGA-CBA	3.29	122.22	111.91
26	4	319	DGD	O2G-C1B-C2B	3.29	118.58	111.50
29	B	841	PQN	C14-C13-C15	3.28	120.79	115.27
19	A	812	CLA	O2D-CGD-CBD	3.27	117.08	111.27
20	1	514	CHL	C1-C2-C3	-3.27	120.39	126.04
19	3	315	CLA	O2D-CGD-CBD	3.27	117.07	111.27
19	1	513	CLA	O2D-CGD-CBD	3.26	117.07	111.27
18	L	302	BCR	C36-C18-C19	-3.26	112.94	118.08
20	2	515	CHL	C3C-C4C-NC	-3.26	106.92	110.57
18	G	205	BCR	C19-C18-C17	3.26	123.94	118.94
20	4	314	CHL	C3C-C4C-NC	-3.26	106.92	110.57
19	3	306	CLA	O2D-CGD-CBD	3.25	117.05	111.27
19	1	516	CLA	O2D-CGD-CBD	3.25	117.04	111.27
19	G	204	CLA	O2A-C1-C2	3.25	117.17	108.64
19	A	808	CLA	CMB-C2B-C1B	-3.24	123.48	128.46
18	A	848	BCR	C40-C30-C25	-3.24	105.04	110.30
17	4	302	LUT	C38-C25-C24	-3.24	116.62	123.56
20	4	314	CHL	CMA-C3A-C4A	3.24	120.48	111.77
19	B	837	CLA	O2D-CGD-CBD	3.24	117.02	111.27
18	F	306	BCR	C40-C30-C25	-3.24	105.05	110.30
20	4	313	CHL	CMA-C3A-C4A	3.23	120.45	111.77
19	B	827	CLA	O2D-CGD-CBD	3.22	116.99	111.27
19	B	807	CLA	O2D-CGD-CBD	3.22	116.99	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	1	515	CLA	O2D-CGD-CBD	3.22	116.98	111.27
18	K	1005	BCR	C40-C30-C25	-3.21	105.09	110.30
18	A	848	BCR	C15-C14-C13	3.21	131.89	127.31
19	K	1003	CLA	C1C-NC-C4C	-3.20	105.27	106.71
19	B	827	CLA	O2A-CGA-CBA	3.20	121.94	111.91
18	B	853	BCR	C39-C30-C25	-3.19	105.13	110.30
19	A	818	CLA	O2D-CGD-CBD	3.19	116.93	111.27
19	B	831	CLA	O2D-CGD-CBD	3.18	116.92	111.27
18	B	853	BCR	C15-C14-C13	3.18	131.85	127.31
20	4	317	CHL	CMA-C3A-C4A	3.18	120.31	111.77
19	K	1002	CLA	O2D-CGD-CBD	3.18	116.91	111.27
19	H	1000	CLA	O2D-CGD-CBD	3.17	116.90	111.27
19	A	842	CLA	O2D-CGD-CBD	3.16	116.89	111.27
19	G	201	CLA	O2A-C1-C2	3.16	116.94	108.64
18	A	850	BCR	C40-C30-C25	-3.16	105.18	110.30
19	B	838	CLA	O2D-CGD-CBD	3.15	116.86	111.27
19	B	828	CLA	O2D-CGD-CBD	3.14	116.85	111.27
18	B	802	BCR	C8-C9-C10	3.14	123.76	118.94
18	B	852	BCR	C40-C30-C25	-3.14	105.21	110.30
20	4	316	CHL	C1B-CHB-C4A	-3.14	123.90	130.12
20	1	514	CHL	C2C-C3C-C4C	3.13	108.72	106.49
19	B	834	CLA	O2D-CGD-CBD	3.13	116.83	111.27
18	G	205	BCR	C36-C18-C19	-3.13	113.15	118.08
19	B	810	CLA	O2D-CGD-CBD	3.13	116.82	111.27
18	A	851	BCR	C2-C1-C6	3.13	115.29	110.48
19	A	835	CLA	O2D-CGD-CBD	3.12	116.81	111.27
27	A	801	CL0	C1D-CHD-C4C	3.12	126.67	122.56
19	K	1002	CLA	CMA-C3A-C4A	3.11	120.14	111.77
18	L	302	BCR	C38-C26-C25	-3.11	121.03	124.53
17	3	302	LUT	C15-C14-C13	3.10	131.74	127.31
18	L	307	BCR	C40-C30-C25	-3.10	105.27	110.30
20	4	316	CHL	CMA-C3A-C4A	3.10	120.11	111.77
19	G	201	CLA	CMA-C3A-C4A	3.10	120.11	111.77
18	A	856	BCR	C40-C30-C25	-3.10	105.27	110.30
19	A	822	CLA	O2D-CGD-CBD	3.10	116.77	111.27
20	2	512	CHL	C3A-C2A-C1A	3.09	105.97	101.34
18	B	851	BCR	C19-C18-C17	3.09	123.68	118.94
19	A	815	CLA	CMA-C3A-C4A	3.09	120.07	111.77
19	A	816	CLA	CMA-C3A-C4A	3.08	120.06	111.77
21	A	845	LHG	C5-O7-C7	-3.08	110.21	117.79
19	3	311	CLA	CMA-C3A-C4A	3.08	120.05	111.77
18	2	503	BCR	C38-C26-C25	-3.08	121.07	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	L	307	BCR	C38-C26-C25	-3.08	121.07	124.53
19	1	506	CLA	O2A-CGA-CBA	3.08	121.56	111.91
19	2	507	CLA	CMA-C3A-C4A	3.07	120.02	111.77
17	1	502	LUT	C22-C23-C24	-3.07	108.25	111.74
18	B	856	BCR	C27-C26-C25	-3.07	118.28	122.73
21	B	842	LHG	C5-O7-C7	-3.07	112.18	117.90
19	4	311	CLA	CMB-C2B-C1B	-3.07	123.75	128.46
21	A	845	LHG	O8-C23-C24	3.06	121.51	111.91
19	A	827	CLA	O2D-CGD-CBD	3.05	116.69	111.27
19	1	508	CLA	O2D-CGD-CBD	3.05	116.68	111.27
23	2	502	XAT	C38-C25-C26	-3.05	117.16	122.26
20	3	314	CHL	CMA-C3A-C4A	3.03	119.91	111.77
19	B	823	CLA	O2D-CGD-CBD	3.03	116.64	111.27
19	2	508	CLA	CBC-CAC-C3C	-3.02	104.10	112.43
18	L	307	BCR	C1-C6-C5	-3.02	118.36	122.61
18	L	306	BCR	C40-C30-C25	-3.02	105.41	110.30
19	A	855	CLA	O2D-CGD-CBD	3.02	116.63	111.27
19	3	307	CLA	CMA-C3A-C4A	3.01	119.88	111.77
18	B	849	BCR	C38-C26-C25	-3.01	121.14	124.53
26	4	319	DGD	C3G-C2G-C1G	-3.01	104.66	111.79
19	B	824	CLA	CMA-C3A-C4A	3.01	119.86	111.77
19	1	513	CLA	CMA-C3A-C4A	3.01	119.86	111.77
17	1	501	LUT	C38-C25-C24	-3.01	117.12	123.56
19	2	508	CLA	O2D-CGD-CBD	3.01	116.61	111.27
18	F	306	BCR	C38-C26-C25	-3.00	121.16	124.53
19	L	303	CLA	CMA-C3A-C4A	3.00	119.84	111.77
19	3	307	CLA	O2D-CGD-CBD	3.00	116.59	111.27
17	2	501	LUT	C38-C25-C24	-2.99	117.17	123.56
19	B	834	CLA	CMA-C3A-C4A	2.99	119.80	111.77
19	A	814	CLA	CMA-C3A-C4A	2.99	119.80	111.77
19	1	506	CLA	O2D-CGD-CBD	2.98	116.57	111.27
27	A	801	CL0	O2D-CGD-O1D	-2.98	118.00	123.84
18	I	102	BCR	C39-C30-C25	-2.98	105.46	110.30
19	3	310	CLA	O2D-CGD-CBD	2.98	116.56	111.27
18	A	852	BCR	C39-C30-C25	-2.97	105.48	110.30
22	B	844	LMG	O8-C28-C29	2.97	121.23	111.91
30	F	301	ZEX	C15-C35-C34	-2.97	117.40	123.47
23	2	502	XAT	C20-C13-C14	-2.96	118.77	122.92
18	B	849	BCR	C34-C9-C10	-2.96	118.77	122.92
19	K	1001	CLA	CMA-C3A-C4A	2.96	119.74	111.77
24	A	846	LMT	C1'-O5'-C5'	-2.96	107.87	113.69
18	B	851	BCR	C30-C25-C26	-2.96	118.45	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B	849	BCR	C30-C25-C26	-2.96	118.45	122.61
20	2	516	CHL	CMA-C3A-C4A	2.95	119.71	111.77
18	B	802	BCR	C38-C26-C25	-2.95	121.21	124.53
19	J	1102	CLA	O2D-CGD-CBD	2.95	116.51	111.27
19	4	310	CLA	CMA-C3A-C4A	2.95	119.70	111.77
24	2	523	LMT	C1'-O5'-C5'	-2.95	107.90	113.69
19	B	813	CLA	CMA-C3A-C4A	2.95	119.69	111.77
20	2	516	CHL	C1-O2A-CGA	2.95	124.17	116.44
19	3	312	CLA	CMA-C3A-C4A	2.94	119.69	111.77
19	A	819	CLA	CMA-C3A-C4A	2.94	119.69	111.77
19	A	836	CLA	CMA-C3A-C4A	2.94	119.68	111.77
20	1	512	CHL	C3C-C4C-NC	-2.94	107.28	110.57
18	B	856	BCR	C34-C9-C10	-2.94	118.81	122.92
19	4	310	CLA	O2D-CGD-CBD	2.93	116.48	111.27
19	A	802	CLA	CMB-C2B-C3B	2.93	130.16	124.68
20	3	314	CHL	C2C-C3C-C4C	2.93	108.58	106.49
18	I	102	BCR	C40-C30-C25	-2.93	105.55	110.30
19	3	309	CLA	CMA-C3A-C4A	2.93	119.64	111.77
19	A	835	CLA	CMA-C3A-C4A	2.92	119.62	111.77
20	2	516	CHL	C1-C2-C3	-2.92	121.00	126.04
19	A	823	CLA	CMA-C3A-C4A	2.92	119.61	111.77
19	B	812	CLA	O2D-CGD-CBD	2.92	116.45	111.27
20	2	526	CHL	C2C-C3C-C4C	2.91	108.56	106.49
19	3	307	CLA	OBD-CAD-C3D	-2.91	123.16	127.98
19	F	303	CLA	O2D-CGD-CBD	2.90	116.43	111.27
19	B	816	CLA	CMA-C3A-C4A	2.90	119.58	111.77
22	B	845	LMG	O8-C28-C29	2.90	121.02	111.91
22	J	1103	LMG	O8-C28-C29	2.90	118.99	111.38
18	B	849	BCR	C8-C9-C10	2.90	123.39	118.94
17	3	301	LUT	C38-C25-C24	-2.89	117.36	123.56
20	1	514	CHL	C1B-CHB-C4A	-2.89	124.39	130.12
18	I	101	BCR	C38-C26-C25	-2.89	121.28	124.53
21	B	843	LHG	O8-C23-C24	2.89	120.98	111.91
18	B	851	BCR	C36-C18-C19	-2.88	113.53	118.08
19	1	506	CLA	CMA-C3A-C4A	2.88	119.51	111.77
20	1	521	CHL	C4D-C3D-CAD	-2.88	106.86	108.47
19	4	307	CLA	CMA-C3A-C4A	2.88	119.51	111.77
17	3	301	LUT	C7-C8-C9	-2.88	121.89	126.23
19	4	312	CLA	CMA-C3A-C4A	2.88	119.50	111.77
18	B	853	BCR	C34-C9-C10	-2.88	118.89	122.92
18	I	101	BCR	C1-C6-C7	2.88	123.91	115.78
18	B	849	BCR	C30-C25-C24	2.87	123.90	115.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	4	317	CHL	C2C-C3C-C4C	2.87	108.54	106.49
24	J	1107	LMT	C3'-C4'-C5'	-2.87	104.34	110.93
19	J	1102	CLA	CMB-C2B-C1B	-2.87	124.05	128.46
18	B	851	BCR	C40-C30-C39	-2.87	99.72	108.53
20	1	521	CHL	C1D-CHD-C4C	2.87	126.34	122.56
18	1	503	BCR	C40-C30-C25	-2.87	105.65	110.30
22	F	305	LMG	O8-C28-C29	2.87	120.91	111.91
19	A	815	CLA	O2D-CGD-CBD	2.87	116.36	111.27
19	3	306	CLA	O2A-CGA-CBA	2.87	120.90	111.91
19	B	824	CLA	C1-O2A-CGA	2.87	123.96	116.44
19	1	510	CLA	CAA-CBA-CGA	-2.86	104.88	113.25
26	B	854	DGD	O1G-C1A-C2A	2.86	120.89	111.91
18	4	301	BCR	C24-C25-C26	-2.86	114.54	121.46
19	4	306	CLA	CMB-C2B-C1B	-2.86	124.07	128.46
20	2	512	CHL	C3C-C4C-NC	-2.86	107.37	110.57
19	B	812	CLA	CMA-C3A-C4A	2.85	119.44	111.77
19	2	506	CLA	O2A-CGA-CBA	2.85	120.86	111.91
18	I	102	BCR	C38-C26-C25	-2.85	121.33	124.53
19	4	304	CLA	O2A-CGA-CBA	2.85	120.86	111.91
19	B	817	CLA	O2A-CGA-CBA	2.85	120.85	111.91
19	1	504	CLA	CMA-C3A-C4A	2.85	119.43	111.77
19	A	825	CLA	CAC-C3C-C4C	2.85	128.50	124.81
19	A	824	CLA	O2D-CGD-CBD	2.84	116.32	111.27
19	G	204	CLA	CMA-C3A-C4A	2.84	119.39	111.77
19	B	822	CLA	CMA-C3A-C4A	2.83	119.39	111.77
18	B	852	BCR	C15-C14-C13	2.83	131.35	127.31
19	K	1004	CLA	C3B-C4B-NB	-2.83	107.62	110.11
18	K	1005	BCR	C1-C6-C5	-2.83	118.63	122.61
24	3	318	LMT	C3B-C4B-C5B	-2.83	105.19	110.24
18	I	101	BCR	C35-C13-C14	-2.83	118.96	122.92
20	1	521	CHL	C2C-C3C-C4C	2.83	108.50	106.49
19	F	302	CLA	CMB-C2B-C3B	2.83	129.96	124.68
20	1	514	CHL	CHD-C4C-C3C	2.82	128.99	124.84
18	3	303	BCR	C40-C30-C25	-2.82	105.72	110.30
20	2	515	CHL	CMA-C3A-C4A	2.82	119.35	111.77
19	1	505	CLA	CMA-C3A-C4A	2.82	119.34	111.77
18	B	856	BCR	C40-C30-C25	-2.82	105.73	110.30
19	K	1003	CLA	C3B-C4B-NB	-2.81	107.64	110.11
18	A	850	BCR	C34-C9-C10	-2.81	118.98	122.92
19	J	1105	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
19	4	307	CLA	O2A-CGA-CBA	2.81	120.71	111.91
17	3	302	LUT	C7-C8-C9	-2.81	122.00	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	1	501	LUT	C7-C8-C9	-2.80	122.00	126.23
19	A	825	CLA	CMA-C3A-C4A	2.80	119.30	111.77
18	A	850	BCR	C39-C30-C25	-2.80	105.76	110.30
19	B	830	CLA	CMB-C2B-C3B	2.80	129.91	124.68
22	F	304	LMG	O8-C28-C29	2.80	120.69	111.91
18	B	850	BCR	C15-C14-C13	2.80	131.30	127.31
19	4	307	CLA	CMB-C2B-C1B	-2.80	124.17	128.46
20	2	512	CHL	CHD-C4C-C3C	2.79	128.94	124.84
19	A	822	CLA	CMA-C3A-C4A	2.79	119.27	111.77
18	A	856	BCR	C34-C9-C10	-2.78	119.03	122.92
18	4	301	BCR	C23-C24-C25	2.78	135.01	127.20
18	A	851	BCR	C15-C14-C13	2.78	131.28	127.31
24	A	846	LMT	C3'-C4'-C5'	-2.78	104.56	110.93
19	A	821	CLA	CMB-C2B-C3B	2.78	129.88	124.68
24	J	1107	LMT	C1'-O5'-C5'	-2.77	108.25	113.69
19	4	305	CLA	O2A-CGA-CBA	2.77	120.60	111.91
19	A	812	CLA	CMA-C3A-C4A	2.77	119.21	111.77
19	A	824	CLA	CMA-C3A-C4A	2.77	119.21	111.77
20	4	314	CHL	C1-C2-C3	-2.76	122.28	126.75
20	1	521	CHL	CMA-C3A-C4A	2.76	119.20	111.77
19	1	510	CLA	CMA-C3A-C4A	2.76	119.20	111.77
18	A	856	BCR	C30-C25-C26	-2.76	118.72	122.61
18	A	850	BCR	C15-C14-C13	-2.76	123.37	127.31
18	B	852	BCR	C35-C13-C12	2.76	122.43	118.08
18	L	307	BCR	C34-C9-C10	-2.76	119.06	122.92
27	A	801	CL0	CMB-C2B-C3B	2.76	129.84	124.68
23	2	502	XAT	C39-C29-C30	-2.75	119.06	122.92
20	4	317	CHL	CHD-C4C-C3C	2.75	128.88	124.84
18	I	102	BCR	C34-C9-C10	-2.75	119.07	122.92
19	A	855	CLA	CMA-C3A-C4A	2.75	119.16	111.77
19	L	301	CLA	O2A-CGA-CBA	2.75	120.53	111.91
19	A	837	CLA	CMA-C3A-C4A	2.75	119.15	111.77
19	A	855	CLA	CAC-C3C-C4C	2.75	128.37	124.81
19	B	824	CLA	CMB-C2B-C3B	2.74	129.81	124.68
18	B	851	BCR	C23-C24-C25	-2.74	119.50	127.20
20	4	316	CHL	C3C-C4C-NC	-2.74	107.50	110.57
19	L	305	CLA	CMA-C3A-C4A	2.73	119.12	111.77
19	A	807	CLA	CMA-C3A-C4A	2.73	119.11	111.77
19	A	806	CLA	O2A-CGA-CBA	2.73	120.46	111.91
19	B	803	CLA	O2D-CGD-CBD	2.72	116.11	111.27
20	2	512	CHL	CHC-C1C-NC	2.72	128.34	124.20
19	3	305	CLA	OBD-CAD-C3D	-2.72	123.46	127.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	1	510	CLA	OBD-CAD-CBD	2.72	129.78	125.89
20	2	526	CHL	CMA-C3A-C4A	2.72	119.08	111.77
19	2	508	CLA	CMA-C3A-C4A	2.72	119.08	111.77
19	A	825	CLA	CMB-C2B-C3B	2.72	129.76	124.68
19	A	811	CLA	CMA-C3A-C4A	2.71	119.05	111.77
19	J	1101	CLA	CMB-C2B-C1B	-2.71	124.30	128.46
19	B	808	CLA	CMA-C3A-C4A	2.71	119.05	111.77
18	A	849	BCR	C40-C30-C25	-2.71	105.91	110.30
27	A	801	CL0	O2A-CGA-CBA	2.70	120.39	111.91
20	2	516	CHL	C2C-C3C-C4C	2.70	108.42	106.49
20	2	526	CHL	C1-O2A-CGA	2.70	123.53	116.44
19	1	510	CLA	CAC-C3C-C4C	2.70	128.31	124.81
19	B	804	CLA	CAC-C3C-C4C	2.70	128.31	124.81
19	G	203	CLA	CMA-C3A-C4A	2.70	119.02	111.77
19	L	304	CLA	CMA-C3A-C4A	2.70	119.02	111.77
24	B	846	LMT	C3'-C4'-C5'	-2.69	104.75	110.93
18	G	205	BCR	C38-C26-C25	-2.69	121.50	124.53
19	2	505	CLA	CMA-C3A-C4A	2.69	119.00	111.77
19	B	814	CLA	CMA-C3A-C4A	2.69	119.00	111.77
22	2	519	LMG	O8-C28-C29	2.69	120.34	111.91
19	1	508	CLA	CAC-C3C-C4C	2.69	128.29	124.81
19	J	1101	CLA	CMB-C2B-C3B	2.69	129.70	124.68
19	A	839	CLA	O2D-CGD-CBD	2.68	116.04	111.27
18	A	849	BCR	C35-C13-C12	2.68	122.31	118.08
19	A	806	CLA	CAA-C2A-C3A	-2.68	105.43	112.78
19	1	516	CLA	CMA-C3A-C4A	2.68	118.97	111.77
23	4	303	XAT	C26-C27-C28	-2.68	120.33	125.99
19	2	511	CLA	CMA-C3A-C4A	2.68	118.97	111.77
18	A	848	BCR	C35-C13-C12	2.68	122.29	118.08
24	3	318	LMT	O1'-C1'-C2'	2.67	112.48	108.30
18	A	849	BCR	C34-C9-C10	-2.67	119.18	122.92
19	4	305	CLA	CMA-C3A-C4A	2.67	118.95	111.77
26	J	1106	DGD	O1G-C1A-C2A	2.67	120.28	111.91
17	1	502	LUT	C38-C25-C24	-2.67	117.85	123.56
17	4	302	LUT	C31-C32-C33	-2.67	118.92	126.42
30	F	301	ZEX	C27-C26-C25	-2.67	118.53	122.84
30	F	301	ZEX	C27-C28-C29	-2.67	122.21	126.23
19	K	1002	CLA	O2A-CGA-CBA	2.66	120.26	111.91
20	4	314	CHL	C1D-CHD-C4C	-2.66	119.05	122.56
19	G	203	CLA	CMB-C2B-C3B	2.66	129.65	124.68
19	A	809	CLA	C1-O2A-CGA	2.66	123.42	116.44
19	B	804	CLA	O2D-CGD-O1D	-2.66	118.64	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	1	501	LUT	C31-C32-C33	-2.66	118.95	126.42
18	A	856	BCR	C27-C26-C25	-2.66	118.87	122.73
17	3	302	LUT	C11-C10-C9	2.66	131.10	127.31
19	3	313	CLA	O2A-CGA-CBA	2.66	120.24	111.91
19	A	818	CLA	CMA-C3A-C4A	2.66	118.91	111.77
18	3	303	BCR	C34-C9-C10	-2.65	119.21	122.92
19	4	307	CLA	CMB-C2B-C3B	2.65	129.64	124.68
17	3	302	LUT	C38-C25-C24	-2.65	117.89	123.56
19	2	509	CLA	CMB-C2B-C1B	-2.65	124.39	128.46
19	B	819	CLA	CAA-C2A-C1A	-2.65	103.30	111.97
18	4	301	BCR	C34-C9-C10	-2.65	119.22	122.92
19	3	315	CLA	CMB-C2B-C3B	2.64	129.62	124.68
18	A	849	BCR	C39-C30-C25	-2.64	106.01	110.30
20	2	515	CHL	C4D-C3D-CAD	-2.64	107.00	108.47
17	4	302	LUT	C39-C29-C30	-2.64	119.22	122.92
19	B	825	CLA	CMB-C2B-C1B	-2.64	124.41	128.46
23	2	502	XAT	O24-C25-C24	2.64	115.36	113.38
18	I	101	BCR	C31-C1-C6	-2.64	106.02	110.30
19	B	829	CLA	CAC-C3C-C4C	2.64	128.23	124.81
29	A	844	PQN	C2M-C2-C3	-2.64	120.10	124.40
19	B	825	CLA	CMB-C2B-C3B	2.63	129.61	124.68
24	G	209	LMT	C1'-O5'-C5'	-2.63	108.52	113.69
19	A	842	CLA	CMA-C3A-C4A	2.63	118.85	111.77
19	A	810	CLA	CMA-C3A-C4A	2.63	118.85	111.77
19	B	831	CLA	CMB-C2B-C3B	2.63	129.60	124.68
19	A	840	CLA	CMB-C2B-C3B	2.63	129.60	124.68
22	J	1104	LMG	C7-O1-C1	-2.63	108.60	113.74
19	A	854	CLA	O2A-CGA-O1A	-2.63	116.96	123.59
18	B	856	BCR	C39-C30-C25	-2.63	106.04	110.30
19	G	202	CLA	CMA-C3A-C4A	2.63	118.83	111.77
18	G	205	BCR	C39-C30-C25	-2.62	106.04	110.30
19	A	802	CLA	CMB-C2B-C1B	-2.62	124.43	128.46
19	A	840	CLA	CMA-C3A-C4A	2.62	118.82	111.77
19	A	827	CLA	CMA-C3A-C4A	2.62	118.82	111.77
19	B	809	CLA	CMA-C3A-C4A	2.62	118.81	111.77
23	4	303	XAT	O24-C25-C38	-2.62	111.92	115.06
17	3	302	LUT	C39-C29-C30	-2.62	119.25	122.92
18	3	303	BCR	C29-C28-C27	2.62	117.23	111.38
19	A	831	CLA	O2D-CGD-O1D	-2.62	118.72	123.84
19	4	306	CLA	CMA-C3A-C4A	2.61	118.80	111.77
19	2	509	CLA	CMB-C2B-C3B	2.61	129.57	124.68
18	4	301	BCR	C39-C30-C25	-2.61	106.06	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	3	317	CLA	CMA-C3A-C4A	2.61	118.80	111.77
20	4	316	CHL	CHC-C1C-NC	2.61	128.17	124.20
19	A	817	CLA	CMA-C3A-C4A	2.61	118.79	111.77
17	1	502	LUT	C31-C32-C33	-2.61	119.08	126.42
19	A	854	CLA	O2A-CGA-CBA	2.61	120.10	111.91
19	J	1105	CLA	CMB-C2B-C1B	-2.61	124.45	128.46
19	A	821	CLA	CMB-C2B-C1B	-2.61	124.46	128.46
19	A	838	CLA	CMA-C3A-C4A	2.61	118.78	111.77
19	1	504	CLA	CMB-C2B-C3B	2.61	129.55	124.68
19	B	813	CLA	CMB-C2B-C3B	2.60	129.55	124.68
18	B	851	BCR	C35-C13-C12	2.60	122.18	118.08
18	A	848	BCR	C8-C9-C10	2.60	122.93	118.94
18	A	849	BCR	C19-C18-C17	2.60	122.93	118.94
19	B	838	CLA	CMA-C3A-C4A	2.60	118.75	111.77
19	K	1004	CLA	C1C-NC-C4C	-2.60	105.54	106.71
20	2	513	CHL	C2C-C3C-C4C	2.59	108.34	106.49
19	1	507	CLA	O2A-CGA-CBA	2.59	120.03	111.91
27	A	801	CL0	C6-C5-C3	-2.59	106.67	113.45
19	A	854	CLA	OBD-CAD-CBD	-2.59	122.20	125.89
23	2	502	XAT	C40-C33-C34	-2.59	119.30	122.92
19	A	836	CLA	CMB-C2B-C3B	2.58	129.51	124.68
18	2	503	BCR	C32-C1-C6	-2.58	106.11	110.30
19	A	806	CLA	O2D-CGD-CBD	2.58	115.86	111.27
19	B	829	CLA	O2D-CGD-O1D	-2.58	118.79	123.84
19	B	840	CLA	CMA-C3A-C4A	2.58	118.71	111.77
24	G	208	LMT	C3'-C4'-C5'	-2.58	105.01	110.93
18	B	802	BCR	C40-C30-C25	-2.58	106.12	110.30
19	B	829	CLA	O2A-CGA-CBA	2.58	119.99	111.91
26	G	207	DGD	O1G-C1A-C2A	2.57	119.99	111.91
19	2	510	CLA	CMB-C2B-C3B	2.57	129.49	124.68
23	4	303	XAT	C39-C29-C30	-2.57	119.32	122.92
23	4	303	XAT	C31-C30-C29	-2.57	123.64	127.31
18	A	848	BCR	C12-C13-C14	-2.57	115.00	118.94
20	4	317	CHL	CHC-C1C-NC	2.56	128.09	124.20
19	3	313	CLA	CMA-C3A-C4A	2.56	118.66	111.77
19	B	815	CLA	O2A-CGA-CBA	2.56	119.94	111.91
18	A	848	BCR	C38-C26-C25	-2.56	121.66	124.53
19	A	855	CLA	O2A-CGA-CBA	2.55	119.92	111.91
24	B	846	LMT	C1'-O5'-C5'	-2.55	108.67	113.69
26	4	319	DGD	O1G-C1A-C2A	2.55	119.92	111.91
20	4	313	CHL	C4D-C3D-CAD	-2.55	107.05	108.47
19	2	505	CLA	O2A-CGA-CBA	2.55	119.91	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	1	507	CLA	CMA-C3A-C4A	2.55	118.62	111.77
19	A	819	CLA	CMB-C2B-C3B	2.55	129.44	124.68
19	A	807	CLA	O2A-CGA-CBA	2.55	119.90	111.91
19	4	304	CLA	CMA-C3A-C4A	2.55	118.62	111.77
19	B	836	CLA	CMB-C2B-C3B	2.55	129.44	124.68
19	A	842	CLA	O2A-CGA-CBA	2.55	119.90	111.91
19	B	814	CLA	CAC-C3C-C4C	2.54	128.11	124.81
17	J	1109	LUT	C39-C29-C30	-2.54	119.36	122.92
20	1	521	CHL	CHB-C4A-NA	2.54	128.02	124.51
20	1	514	CHL	C4D-C3D-CAD	-2.54	107.05	108.47
22	1	518	LMG	O8-C28-C29	2.54	119.87	111.91
26	4	319	DGD	O3G-C1D-C2D	2.54	112.26	108.30
19	A	854	CLA	CMB-C2B-C3B	2.54	129.42	124.68
19	2	506	CLA	CAA-CBA-CGA	-2.53	105.87	113.25
18	B	850	BCR	C35-C13-C12	2.53	122.06	118.08
19	B	818	CLA	CAC-C3C-C4C	2.52	128.09	124.81
20	2	513	CHL	C4D-C3D-CAD	-2.52	107.06	108.47
19	A	820	CLA	CMA-C3A-C4A	2.52	118.55	111.77
19	A	833	CLA	CMA-C3A-C4A	2.52	118.54	111.77
19	B	819	CLA	CMA-C3A-C4A	2.52	118.54	111.77
19	1	515	CLA	CMA-C3A-C4A	2.52	118.54	111.77
19	3	308	CLA	CMB-C2B-C3B	2.51	129.38	124.68
19	4	304	CLA	CMB-C2B-C3B	2.51	129.38	124.68
19	B	825	CLA	CMA-C3A-C4A	2.51	118.52	111.77
19	B	804	CLA	CMA-C3A-C4A	2.51	118.52	111.77
19	F	302	CLA	O2A-CGA-CBA	2.51	119.78	111.91
19	3	309	CLA	CAC-C3C-C4C	2.51	128.06	124.81
18	B	852	BCR	C12-C13-C14	-2.51	115.09	118.94
19	A	826	CLA	CMA-C3A-C4A	2.51	118.51	111.77
19	B	809	CLA	O2A-CGA-CBA	2.51	119.77	111.91
19	F	302	CLA	CMB-C2B-C1B	-2.50	124.61	128.46
19	A	809	CLA	CMA-C3A-C4A	2.50	118.50	111.77
18	B	852	BCR	C38-C26-C25	-2.50	121.72	124.53
19	B	818	CLA	CMA-C3A-C4A	2.50	118.50	111.77
19	B	830	CLA	CMB-C2B-C1B	-2.50	124.62	128.46
19	A	830	CLA	CMB-C2B-C3B	2.50	129.35	124.68
20	2	526	CHL	CHB-C4A-NA	2.49	127.96	124.51
20	2	516	CHL	C4D-C3D-CAD	-2.49	107.08	108.47
20	4	313	CHL	C2C-C3C-C4C	2.49	108.27	106.49
18	A	856	BCR	C8-C9-C10	2.49	122.76	118.94
18	B	852	BCR	C39-C30-C25	-2.49	106.26	110.30
19	F	303	CLA	CMA-C3A-C4A	2.49	118.47	111.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B	833	CLA	CMB-C2B-C1B	-2.49	124.64	128.46
24	B	847	LMT	C1'-O5'-C5'	-2.49	108.81	113.69
17	J	1109	LUT	C37-C21-C22	-2.49	104.73	109.44
19	A	833	CLA	CMB-C2B-C3B	2.48	129.33	124.68
18	B	852	BCR	C37-C22-C23	2.48	121.99	118.08
19	2	507	CLA	CMB-C2B-C3B	2.48	129.32	124.68
19	B	810	CLA	O2A-CGA-CBA	2.48	119.70	111.91
19	A	831	CLA	CMB-C2B-C3B	2.48	129.32	124.68
19	B	835	CLA	O2A-CGA-CBA	2.48	119.68	111.91
19	1	509	CLA	O2A-CGA-CBA	2.48	119.68	111.91
19	A	802	CLA	O2A-C1-C2	2.48	115.14	108.64
18	K	1005	BCR	C40-C30-C29	2.47	118.79	108.91
19	B	806	CLA	C1-O2A-CGA	2.47	122.93	116.44
19	B	825	CLA	OBD-CAD-C3D	-2.47	123.88	127.98
18	B	849	BCR	C40-C30-C29	2.47	118.77	108.91
18	B	802	BCR	C40-C30-C29	2.46	118.75	108.91
19	A	811	CLA	O2A-CGA-CBA	2.46	119.63	111.91
19	A	854	CLA	CMA-C3A-C4A	2.46	118.38	111.77
22	A	847	LMG	O8-C28-C29	2.46	119.62	111.91
18	A	849	BCR	C40-C30-C29	2.46	118.74	108.91
19	1	504	CLA	CMB-C2B-C1B	-2.46	124.69	128.46
18	G	205	BCR	C40-C30-C29	2.46	118.73	108.91
18	A	852	BCR	C40-C30-C29	2.46	118.73	108.91
19	B	826	CLA	O2A-CGA-CBA	2.46	119.61	111.91
18	3	303	BCR	C40-C30-C29	2.45	118.72	108.91
20	3	314	CHL	CHC-C1C-NC	2.45	127.93	124.20
19	2	508	CLA	OBD-CAD-C3D	-2.45	123.91	127.98
18	F	306	BCR	C40-C30-C29	2.45	118.72	108.91
18	L	306	BCR	C40-C30-C29	2.45	118.72	108.91
18	I	101	BCR	C8-C9-C10	2.45	122.70	118.94
18	I	101	BCR	C40-C30-C29	2.45	118.72	108.91
18	B	852	BCR	C40-C30-C29	2.45	118.72	108.91
19	A	826	CLA	O2A-CGA-CBA	2.45	119.60	111.91
18	A	856	BCR	C40-C30-C29	2.45	118.70	108.91
18	A	848	BCR	C40-C30-C29	2.45	118.70	108.91
20	2	513	CHL	C1B-CHB-C4A	-2.45	125.27	130.12
18	L	302	BCR	C40-C30-C29	2.45	118.69	108.91
18	A	851	BCR	C40-C30-C29	2.45	118.69	108.91
18	B	853	BCR	C40-C30-C29	2.45	118.69	108.91
30	F	301	ZEX	C35-C34-C33	-2.45	123.82	127.31
19	F	302	CLA	CMA-C3A-C4A	2.45	118.34	111.77
20	4	314	CHL	C3A-C2A-C1A	2.44	105.00	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	4	314	CHL	CHC-C1C-NC	2.44	127.91	124.20
19	B	833	CLA	CMB-C2B-C3B	2.44	129.25	124.68
18	L	307	BCR	C40-C30-C29	2.44	118.68	108.91
18	B	850	BCR	C40-C30-C29	2.44	118.68	108.91
18	B	851	BCR	C40-C30-C29	2.44	118.67	108.91
19	A	809	CLA	CMB-C2B-C3B	2.44	129.25	124.68
19	A	832	CLA	CMA-C3A-C4A	2.44	118.33	111.77
19	2	514	CLA	CAC-C3C-C4C	2.44	127.98	124.81
18	2	503	BCR	C34-C9-C10	-2.44	119.50	122.92
19	A	839	CLA	CMB-C2B-C3B	2.44	129.24	124.68
20	2	513	CHL	CMA-C3A-C4A	2.44	118.33	111.77
19	K	1003	CLA	C2B-C3B-C4B	2.44	108.38	106.29
19	2	514	CLA	O2A-CGA-CBA	2.44	119.56	111.91
19	1	510	CLA	CMB-C2B-C1B	-2.44	124.72	128.46
18	1	503	BCR	C40-C30-C29	2.44	118.66	108.91
17	4	302	LUT	C19-C9-C8	2.44	121.92	118.08
18	3	304	BCR	C40-C30-C29	2.44	118.65	108.91
18	A	850	BCR	C40-C30-C29	2.44	118.65	108.91
19	1	511	CLA	CAC-C3C-C4C	2.44	127.97	124.81
19	A	841	CLA	CMA-C3A-C4A	2.44	118.32	111.77
20	1	521	CHL	C1-O2A-CGA	2.44	122.83	116.44
19	2	508	CLA	CMB-C2B-C3B	2.44	129.23	124.68
19	B	834	CLA	O2A-CGA-CBA	2.43	119.55	111.91
29	B	841	PQN	C2M-C2-C3	-2.43	120.43	124.40
20	1	514	CHL	CMA-C3A-C4A	2.43	118.31	111.77
18	J	1108	BCR	C40-C30-C29	2.43	118.64	108.91
19	A	832	CLA	O2A-CGA-CBA	2.43	119.54	111.91
18	J	1108	BCR	C12-C13-C14	-2.43	115.21	118.94
18	I	102	BCR	C40-C30-C29	2.43	118.62	108.91
18	4	301	BCR	C40-C30-C29	2.43	118.62	108.91
19	B	836	CLA	O2A-CGA-CBA	2.43	119.52	111.91
18	A	849	BCR	C8-C9-C10	2.43	122.66	118.94
19	B	813	CLA	CMB-C2B-C1B	-2.43	124.73	128.46
19	A	802	CLA	CAA-C2A-C1A	-2.42	104.03	111.97
20	3	314	CHL	CHD-C4C-C3C	2.42	128.40	124.84
18	A	851	BCR	C34-C9-C10	-2.42	119.53	122.92
19	K	1001	CLA	OBD-CAD-C3D	-2.42	123.96	127.98
18	A	851	BCR	C32-C1-C6	-2.42	106.38	110.30
18	B	856	BCR	C40-C30-C29	2.42	118.58	108.91
19	4	308	CLA	CMA-C3A-C4A	2.42	118.27	111.77
17	J	1109	LUT	C31-C32-C33	-2.42	119.62	126.42
18	A	849	BCR	C36-C18-C19	-2.42	114.27	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B	831	CLA	CMB-C2B-C1B	-2.42	124.75	128.46
19	B	826	CLA	CMA-C3A-C4A	2.42	118.27	111.77
19	F	302	CLA	C6-C7-C8	-2.42	108.11	115.92
18	A	850	BCR	C38-C26-C27	2.41	118.25	113.62
20	2	526	CHL	C4D-C3D-CAD	-2.41	107.12	108.47
19	L	304	CLA	CMB-C2B-C3B	2.41	129.19	124.68
30	F	301	ZEX	C2-C3-C4	-2.41	107.01	110.30
19	2	514	CLA	CMB-C2B-C3B	2.41	129.19	124.68
18	A	848	BCR	C38-C26-C27	2.41	118.24	113.62
18	A	856	BCR	C19-C18-C17	2.41	122.63	118.94
19	A	854	CLA	O2A-C1-C2	2.41	114.96	108.64
19	A	818	CLA	CMB-C2B-C3B	2.40	129.18	124.68
18	G	205	BCR	C34-C9-C10	-2.40	119.56	122.92
19	B	823	CLA	O2A-CGA-CBA	2.40	119.44	111.91
19	B	826	CLA	CHA-C1A-NA	-2.40	120.91	126.40
19	B	811	CLA	CMA-C3A-C4A	2.40	118.22	111.77
18	B	802	BCR	C39-C30-C25	-2.40	106.41	110.30
19	B	821	CLA	CMA-C3A-C4A	2.40	118.21	111.77
18	L	306	BCR	C38-C26-C25	-2.40	121.84	124.53
19	A	854	CLA	O2D-CGD-O1D	-2.40	119.15	123.84
19	A	854	CLA	CHA-C1A-NA	-2.40	120.91	126.40
19	A	829	CLA	CMA-C3A-C4A	2.39	118.21	111.77
18	A	848	BCR	C10-C11-C12	-2.39	115.75	123.22
19	B	820	CLA	CAC-C3C-C4C	2.39	127.91	124.81
19	A	840	CLA	CMB-C2B-C1B	-2.39	124.80	128.46
19	B	825	CLA	C1-O2A-CGA	2.39	122.70	116.44
19	A	808	CLA	CMA-C3A-C4A	2.39	118.18	111.77
18	B	852	BCR	C34-C9-C10	-2.39	119.58	122.92
19	A	818	CLA	O2A-CGA-CBA	2.38	119.39	111.91
19	B	814	CLA	O2A-CGA-CBA	2.38	119.39	111.91
19	4	318	CLA	O2A-CGA-CBA	2.38	119.39	111.91
19	H	1000	CLA	CMA-C3A-C4A	2.38	118.17	111.77
19	A	820	CLA	CAC-C3C-C4C	2.38	127.90	124.81
19	B	811	CLA	CAC-C3C-C4C	2.38	127.90	124.81
19	B	839	CLA	CMA-C3A-C4A	2.38	118.17	111.77
19	4	304	CLA	C1-C2-C3	2.38	130.15	126.04
19	3	307	CLA	O2A-CGA-CBA	2.38	119.36	111.91
20	4	313	CHL	C1-O2A-CGA	2.38	123.94	116.11
18	L	307	BCR	C8-C9-C10	2.37	122.58	118.94
19	A	803	CLA	CMA-C3A-C4A	2.37	118.15	111.77
18	I	101	BCR	C12-C13-C14	2.37	122.58	118.94
17	3	302	LUT	C31-C32-C33	-2.37	119.75	126.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B	840	CLA	CMB-C2B-C3B	2.37	129.11	124.68
18	2	503	BCR	C40-C30-C29	2.37	118.39	108.91
19	A	803	CLA	CMB-C2B-C3B	2.37	129.11	124.68
19	L	301	CLA	CMB-C2B-C3B	2.37	129.11	124.68
21	1	517	LHG	O8-C23-C24	2.37	119.34	111.91
17	J	1109	LUT	C40-C33-C34	-2.37	119.61	122.92
19	J	1101	CLA	C6-C7-C8	-2.37	108.27	115.92
18	2	503	BCR	C33-C5-C6	-2.37	121.87	124.53
19	B	838	CLA	O2A-CGA-CBA	2.37	119.33	111.91
21	1	520	LHG	O8-C23-C24	2.37	119.33	111.91
19	A	831	CLA	CMA-C3A-C4A	2.37	118.13	111.77
23	4	303	XAT	C20-C13-C14	-2.36	119.61	122.92
19	B	830	CLA	CMA-C3A-C4A	2.36	118.12	111.77
19	2	506	CLA	CAC-C3C-C4C	2.36	127.87	124.81
26	B	801	DGD	C3A-C2A-C1A	-2.36	105.03	113.62
19	3	305	CLA	O2A-CGA-CBA	2.36	119.31	111.91
19	3	315	CLA	O2A-CGA-CBA	2.36	119.31	111.91
18	A	851	BCR	C37-C22-C23	2.36	121.79	118.08
22	G	210	LMG	C9-C8-C7	-2.36	106.21	111.79
18	K	1005	BCR	C38-C26-C25	-2.36	121.88	124.53
19	A	831	CLA	CMB-C2B-C1B	-2.36	124.84	128.46
18	L	307	BCR	C39-C30-C25	-2.36	106.48	110.30
20	4	314	CHL	C1-O2A-CGA	2.35	122.62	116.44
23	2	502	XAT	O4-C5-C18	-2.35	112.24	115.06
19	B	825	CLA	O2A-CGA-CBA	2.35	119.28	111.91
19	4	306	CLA	CAC-C3C-C4C	2.35	127.86	124.81
19	A	829	CLA	O2A-CGA-CBA	2.35	119.28	111.91
19	3	305	CLA	CMA-C3A-C4A	2.35	118.08	111.77
18	B	851	BCR	C29-C28-C27	2.35	116.62	111.38
19	A	813	CLA	CMB-C2B-C3B	2.34	129.06	124.68
18	2	503	BCR	C8-C9-C10	2.34	122.54	118.94
19	A	826	CLA	CAA-C2A-C1A	-2.34	104.30	111.97
19	2	510	CLA	O2A-CGA-CBA	2.34	119.26	111.91
17	3	302	LUT	C2-C3-C4	-2.34	107.10	110.30
19	4	312	CLA	O2A-CGA-CBA	2.34	119.25	111.91
19	3	306	CLA	C2C-C1C-NC	2.34	112.17	109.97
19	J	1105	CLA	CMC-C2C-C1C	-2.34	121.47	125.04
19	B	806	CLA	O2D-CGD-O1D	-2.34	119.27	123.84
19	B	804	CLA	CMB-C2B-C3B	2.34	129.05	124.68
18	3	304	BCR	C19-C18-C17	2.34	122.53	118.94
19	A	839	CLA	O2A-CGA-CBA	2.34	119.24	111.91
21	A	853	LHG	C5-O7-C7	-2.34	112.04	117.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	J	1108	BCR	C2-C1-C6	2.34	114.08	110.48
23	4	303	XAT	C38-C25-C26	-2.34	118.35	122.26
26	4	319	DGD	C2G-O2G-C1B	2.34	123.54	117.79
19	3	311	CLA	OBD-CAD-C3D	-2.33	124.11	127.98
19	B	821	CLA	OBD-CAD-C3D	-2.33	124.11	127.98
19	4	315	CLA	CMA-C3A-C4A	2.33	118.04	111.77
20	2	512	CHL	CMB-C2B-C1B	-2.33	124.88	128.46
19	K	1004	CLA	C2B-C3B-C4B	2.33	108.28	106.29
21	A	853	LHG	O8-C23-C24	2.33	119.23	111.91
18	J	1108	BCR	C35-C13-C12	2.33	121.75	118.08
18	J	1108	BCR	C37-C22-C23	2.33	121.75	118.08
18	B	850	BCR	C39-C30-C25	-2.33	106.52	110.30
19	B	832	CLA	O1D-CGD-CBD	-2.33	119.71	124.48
17	3	302	LUT	C22-C23-C24	-2.33	109.09	111.74
19	B	813	CLA	CAC-C3C-C4C	2.33	127.83	124.81
19	B	828	CLA	CMB-C2B-C3B	2.33	129.03	124.68
19	B	811	CLA	CAA-CBA-CGA	-2.33	106.45	113.25
22	G	206	LMG	O8-C28-C29	2.33	119.21	111.91
19	A	831	CLA	OBD-CAD-C3D	-2.32	124.12	127.98
20	1	512	CHL	CMD-C2D-C3D	2.32	129.02	124.68
20	2	516	CHL	CHB-C4A-NA	2.32	127.72	124.51
19	3	313	CLA	CMB-C2B-C3B	2.32	129.02	124.68
19	3	306	CLA	CMA-C3A-C4A	2.32	118.00	111.77
18	J	1108	BCR	C34-C9-C10	-2.32	119.68	122.92
24	4	320	LMT	C3'-C4'-C5'	-2.32	105.61	110.93
18	K	1005	BCR	C34-C9-C10	-2.32	119.68	122.92
18	A	852	BCR	C2-C1-C6	2.32	114.05	110.48
19	B	806	CLA	CMA-C3A-C4A	2.31	118.00	111.77
19	A	815	CLA	CMB-C2B-C3B	2.31	129.01	124.68
20	2	515	CHL	CHB-C4A-NA	2.31	127.71	124.51
19	K	1002	CLA	CAC-C3C-C4C	2.31	127.81	124.81
19	A	836	CLA	O2A-CGA-CBA	2.31	119.16	111.91
19	B	837	CLA	O2A-CGA-CBA	2.31	119.16	111.91
19	K	1001	CLA	CAC-C3C-C4C	2.31	127.81	124.81
19	A	803	CLA	C1-O2A-CGA	2.31	122.51	116.44
19	3	307	CLA	CAC-C3C-C4C	2.31	127.81	124.81
18	K	1005	BCR	C30-C25-C26	-2.31	119.36	122.61
18	L	306	BCR	C30-C25-C26	-2.31	119.36	122.61
19	2	511	CLA	O2A-CGA-CBA	2.31	119.15	111.91
19	A	830	CLA	O2D-CGD-O1D	-2.31	119.33	123.84
19	A	830	CLA	O2A-CGA-CBA	2.31	119.15	111.91
20	4	313	CHL	CHB-C4A-NA	2.31	127.70	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	806	CLA	CMB-C2B-C3B	2.31	128.99	124.68
24	3	318	LMT	O5B-C1B-C2B	2.30	115.23	110.35
19	L	301	CLA	C1-O2A-CGA	2.30	122.49	116.44
19	A	833	CLA	O2A-CGA-CBA	2.30	119.14	111.91
19	A	811	CLA	CAC-C3C-C4C	2.30	127.80	124.81
18	3	303	BCR	C10-C11-C12	-2.30	116.03	123.22
17	2	501	LUT	C15-C35-C34	-2.30	118.75	123.47
19	A	829	CLA	CMB-C2B-C3B	2.30	128.98	124.68
26	4	319	DGD	O5D-C1E-C2E	2.30	111.89	108.30
21	2	517	LHG	O8-C23-C24	2.30	119.12	111.91
19	B	828	CLA	O2A-CGA-CBA	2.30	119.12	111.91
19	B	816	CLA	O2A-CGA-CBA	2.30	119.12	111.91
19	A	802	CLA	O2A-CGA-CBA	2.30	119.12	111.91
19	G	201	CLA	CHA-C1A-NA	-2.30	121.14	126.40
20	1	521	CHL	CMD-C2D-C3D	2.30	128.97	124.68
18	B	851	BCR	C30-C25-C24	2.29	122.27	115.78
19	1	513	CLA	O2A-CGA-CBA	2.29	119.11	111.91
19	3	316	CLA	CMA-C3A-C4A	2.29	117.94	111.77
18	J	1108	BCR	C40-C30-C25	-2.29	106.58	110.30
19	A	813	CLA	CHA-C1A-NA	-2.29	121.15	126.40
19	1	508	CLA	CMB-C2B-C3B	2.29	128.97	124.68
19	4	305	CLA	CHA-C1A-NA	-2.29	121.15	126.40
30	F	301	ZEX	C23-C24-C25	2.29	112.59	109.33
18	A	848	BCR	C39-C30-C25	-2.29	106.58	110.30
19	4	306	CLA	O2A-CGA-CBA	2.29	119.09	111.91
18	B	802	BCR	C37-C22-C23	2.29	121.68	118.08
19	1	510	CLA	CGD-CBD-CAD	2.28	118.14	110.73
20	4	316	CHL	C4D-C3D-CAD	-2.28	107.20	108.47
20	1	512	CHL	C4A-NA-C1A	2.28	107.73	106.71
18	L	302	BCR	C8-C9-C10	2.28	122.44	118.94
18	J	1108	BCR	C30-C25-C26	-2.28	119.40	122.61
19	4	304	CLA	C5-C3-C2	2.28	125.73	121.12
19	K	1002	CLA	CHA-C1A-NA	-2.28	121.17	126.40
19	4	312	CLA	O2D-CGD-O1D	-2.28	119.38	123.84
26	B	801	DGD	C1G-O1G-C1A	2.28	125.57	117.12
19	3	311	CLA	CHA-C1A-NA	-2.28	121.18	126.40
30	F	301	ZEX	C19-C9-C10	-2.28	119.73	122.92
19	B	804	CLA	O2A-CGA-CBA	2.28	119.05	111.91
17	3	302	LUT	C40-C33-C34	-2.28	119.73	122.92
19	A	802	CLA	C5-C3-C2	2.28	125.72	121.12
19	A	822	CLA	O2A-CGA-CBA	2.27	119.05	111.91
22	1	519	LMG	O1-C1-C2	2.27	110.81	108.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	851	BCR	C39-C30-C25	-2.27	106.61	110.30
20	4	313	CHL	CMD-C2D-C3D	2.27	128.93	124.68
19	1	509	CLA	CMA-C3A-C4A	2.27	117.88	111.77
19	G	202	CLA	O2A-CGA-CBA	2.27	119.03	111.91
19	B	818	CLA	CHA-C1A-NA	-2.27	121.20	126.40
19	1	508	CLA	C1-O2A-CGA	2.27	122.39	116.44
20	2	516	CHL	CMD-C2D-C3D	2.27	128.92	124.68
19	4	308	CLA	CMB-C2B-C1B	-2.27	124.98	128.46
18	I	102	BCR	C32-C1-C6	-2.27	106.62	110.30
19	3	315	CLA	CMB-C2B-C1B	-2.26	124.98	128.46
19	4	308	CLA	CHA-C1A-NA	-2.26	121.22	126.40
18	B	802	BCR	C30-C25-C26	-2.26	119.43	122.61
20	4	313	CHL	C1B-CHB-C4A	-2.26	125.64	130.12
19	A	809	CLA	CHA-C1A-NA	-2.26	121.22	126.40
24	4	320	LMT	O5B-C5B-C4B	2.26	113.80	109.69
19	B	837	CLA	CMB-C2B-C3B	2.26	128.91	124.68
19	1	506	CLA	CAC-C3C-C4C	2.26	127.74	124.81
19	L	304	CLA	CMB-C2B-C1B	-2.26	124.99	128.46
19	A	828	CLA	O2A-CGA-CBA	2.26	119.00	111.91
19	2	509	CLA	O2A-CGA-CBA	2.26	119.00	111.91
18	B	850	BCR	C38-C26-C25	-2.26	121.99	124.53
19	B	830	CLA	CAC-C3C-C4C	2.26	127.74	124.81
19	A	816	CLA	CAC-C3C-C4C	2.26	127.74	124.81
19	B	840	CLA	CHA-C1A-NA	-2.26	121.23	126.40
23	2	502	XAT	C7-C8-C9	-2.26	122.03	125.53
18	K	1005	BCR	C37-C22-C23	2.26	121.63	118.08
19	A	820	CLA	O2A-CGA-CBA	2.25	118.98	111.91
19	1	506	CLA	OBD-CAD-C3D	-2.25	124.24	127.98
19	J	1105	CLA	CMC-C2C-C3C	2.25	132.23	126.12
20	4	314	CHL	CMD-C2D-C3D	2.25	128.89	124.68
19	4	311	CLA	CAC-C3C-C4C	2.25	127.73	124.81
19	B	815	CLA	CMB-C2B-C3B	2.25	128.89	124.68
27	A	801	CL0	C2A-C3A-C4A	2.25	105.51	101.87
17	4	302	LUT	C40-C33-C34	-2.25	119.77	122.92
18	L	306	BCR	C39-C30-C25	-2.25	106.65	110.30
19	3	312	CLA	CAC-C3C-C4C	2.25	127.73	124.81
19	A	842	CLA	CMB-C2B-C3B	2.25	128.89	124.68
20	2	513	CHL	CHB-C4A-NA	2.25	127.62	124.51
19	B	829	CLA	CMB-C2B-C3B	2.25	128.88	124.68
22	B	845	LMG	O6-C5-C6	2.25	112.02	106.44
26	B	801	DGD	O1G-C1G-C2G	2.25	114.97	108.43
19	A	826	CLA	CAA-CBA-CGA	-2.24	106.69	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	814	CLA	O2D-CGD-O1D	-2.24	119.45	123.84
18	K	1005	BCR	C39-C30-C25	-2.24	106.66	110.30
18	4	301	BCR	C29-C28-C27	2.24	116.39	111.38
19	K	1001	CLA	CAA-CBA-CGA	-2.24	108.77	113.59
20	4	317	CHL	C3A-C2A-C1A	2.24	104.69	101.34
21	1	520	LHG	O7-C7-O9	-2.24	118.30	123.70
24	4	320	LMT	C1'-O5'-C5'	-2.24	109.30	113.69
19	G	204	CLA	O2A-CGA-CBA	2.24	118.92	111.91
19	1	504	CLA	CAA-C2A-C3A	-2.24	106.66	112.78
18	L	306	BCR	C34-C9-C10	-2.24	119.79	122.92
19	G	201	CLA	CAC-C3C-C4C	2.23	127.71	124.81
20	2	513	CHL	CMD-C2D-C3D	2.23	128.86	124.68
19	A	825	CLA	CMB-C2B-C1B	-2.23	125.03	128.46
19	4	305	CLA	C1-O2A-CGA	2.23	122.30	116.44
18	B	853	BCR	C27-C26-C25	-2.23	119.49	122.73
19	J	1101	CLA	O2A-CGA-CBA	2.23	118.91	111.91
19	L	305	CLA	CHA-C1A-NA	-2.23	121.29	126.40
19	3	316	CLA	CAC-C3C-C4C	2.23	127.70	124.81
19	B	809	CLA	O2D-CGD-O1D	-2.23	119.48	123.84
18	B	849	BCR	C37-C22-C23	2.23	121.59	118.08
18	1	503	BCR	C39-C30-C25	-2.23	106.69	110.30
18	A	856	BCR	C35-C13-C14	-2.23	119.80	122.92
19	A	812	CLA	CHA-C1A-NA	-2.23	121.30	126.40
22	4	322	LMG	C9-C8-C7	-2.23	106.52	111.79
20	2	512	CHL	CMB-C2B-C3B	2.23	128.84	124.68
26	4	319	DGD	C1D-C2D-C3D	-2.23	105.36	110.00
19	3	316	CLA	C2C-C1C-NC	2.22	112.06	109.97
19	2	504	CLA	CAC-C3C-C4C	2.22	127.70	124.81
19	G	203	CLA	CMB-C2B-C1B	-2.22	125.05	128.46
20	1	512	CHL	C1-O2A-CGA	2.22	123.43	116.11
18	A	852	BCR	C34-C9-C8	2.22	121.58	118.08
19	4	308	CLA	CAC-C3C-C4C	2.22	127.69	124.81
19	B	818	CLA	O2A-CGA-CBA	2.22	118.88	111.91
20	2	526	CHL	CHD-C4C-C3C	2.22	128.10	124.84
20	1	514	CHL	CMD-C2D-C3D	2.22	128.83	124.68
19	A	831	CLA	O2A-CGA-CBA	2.22	118.87	111.91
18	L	302	BCR	C23-C24-C25	2.22	133.43	127.20
19	2	507	CLA	O2A-CGA-CBA	2.22	118.86	111.91
19	A	825	CLA	C1D-CHD-C4C	2.22	125.48	122.56
18	A	850	BCR	C11-C12-C13	-2.22	120.19	126.42
19	B	817	CLA	CAC-C3C-C4C	2.21	127.68	124.81
19	B	839	CLA	O2A-CGA-CBA	2.21	118.86	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	3	308	CLA	CAC-C3C-C4C	2.21	127.68	124.81
18	3	304	BCR	C27-C26-C25	-2.21	119.52	122.73
19	A	825	CLA	C1-O2A-CGA	2.21	122.25	116.44
19	3	309	CLA	O2A-CGA-CBA	2.21	118.84	111.91
19	A	836	CLA	CMB-C2B-C1B	-2.21	125.07	128.46
22	J	1104	LMG	C30-C29-C28	-2.21	105.58	113.62
18	A	848	BCR	C30-C25-C24	2.21	122.03	115.78
19	1	515	CLA	CHA-C1A-NA	-2.21	121.34	126.40
19	A	819	CLA	CMB-C2B-C1B	-2.21	125.07	128.46
19	A	814	CLA	CMB-C2B-C3B	2.21	128.81	124.68
19	4	304	CLA	CHA-C1A-NA	-2.21	121.35	126.40
18	2	503	BCR	C19-C18-C17	2.20	122.32	118.94
18	A	850	BCR	C27-C26-C25	-2.20	119.53	122.73
19	4	312	CLA	CBC-CAC-C3C	-2.20	106.36	112.43
19	B	824	CLA	CMB-C2B-C1B	-2.20	125.08	128.46
19	A	803	CLA	CHA-C1A-NA	-2.20	121.36	126.40
19	1	507	CLA	CAC-C3C-C4C	2.20	127.67	124.81
20	1	512	CHL	CHD-C4C-C3C	2.20	128.08	124.84
19	A	809	CLA	O2A-CGA-CBA	2.20	118.82	111.91
19	A	819	CLA	O2A-CGA-CBA	2.20	118.82	111.91
19	1	508	CLA	CHA-C1A-NA	-2.20	121.36	126.40
19	B	811	CLA	C1-O2A-CGA	2.20	122.22	116.44
19	2	510	CLA	CMA-C3A-C4A	2.20	117.68	111.77
22	G	210	LMG	C7-O1-C1	-2.20	109.44	113.74
19	A	830	CLA	CMA-C3A-C4A	2.20	117.68	111.77
19	J	1101	CLA	O2D-CGD-O1D	-2.20	119.54	123.84
26	J	1106	DGD	C3A-C2A-C1A	-2.20	105.63	113.62
19	B	804	CLA	OBD-CAD-C3D	-2.20	124.34	127.98
18	I	101	BCR	C34-C9-C10	-2.20	119.85	122.92
19	L	305	CLA	O2A-CGA-CBA	2.20	118.80	111.91
19	B	831	CLA	O2A-CGA-CBA	2.19	118.79	111.91
18	A	849	BCR	C12-C13-C14	-2.19	115.57	118.94
17	1	501	LUT	C15-C14-C13	2.19	130.44	127.31
19	B	825	CLA	CAA-CBA-CGA	-2.19	106.84	113.25
19	A	807	CLA	CMB-C2B-C1B	-2.19	125.10	128.46
19	J	1102	CLA	CMA-C3A-C4A	2.19	117.66	111.77
19	L	304	CLA	O2A-CGA-CBA	2.19	118.78	111.91
19	2	504	CLA	C1-O2A-CGA	2.19	122.19	116.44
19	B	804	CLA	CHA-C1A-NA	-2.19	121.38	126.40
18	B	853	BCR	C32-C1-C6	-2.19	106.75	110.30
18	3	303	BCR	C37-C22-C23	2.19	121.53	118.08
18	3	304	BCR	C36-C18-C19	-2.19	114.63	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	3	309	CLA	CHA-C1A-NA	-2.19	121.38	126.40
19	B	810	CLA	CMB-C2B-C1B	-2.19	125.10	128.46
19	1	516	CLA	O2A-CGA-CBA	2.19	118.78	111.91
23	4	303	XAT	C40-C33-C34	-2.19	119.86	122.92
20	4	314	CHL	C4D-C3D-CAD	-2.19	107.25	108.47
18	A	856	BCR	C36-C18-C19	-2.19	114.63	118.08
19	A	802	CLA	O2D-CGD-O1D	-2.19	119.56	123.84
19	K	1004	CLA	C3A-C2A-C1A	-2.19	101.69	104.74
18	3	303	BCR	C8-C9-C10	2.19	122.30	118.94
19	B	833	CLA	O2A-CGA-CBA	2.19	118.77	111.91
19	A	837	CLA	O2A-CGA-CBA	2.18	118.76	111.91
19	B	814	CLA	CHA-C1A-NA	-2.18	121.40	126.40
18	B	856	BCR	C31-C1-C6	-2.18	106.76	110.30
20	1	512	CHL	C4D-C3D-CAD	-2.18	107.25	108.47
19	4	308	CLA	C1-O2A-CGA	2.18	122.17	116.44
22	2	519	LMG	C1-C2-C3	-2.18	105.45	110.00
19	1	511	CLA	CMA-C3A-C4A	2.18	117.63	111.77
19	3	307	CLA	CHA-C1A-NA	-2.18	121.41	126.40
19	A	827	CLA	CMB-C2B-C3B	2.18	128.76	124.68
20	2	512	CHL	CMD-C2D-C3D	2.18	128.76	124.68
19	B	830	CLA	O2D-CGD-O1D	-2.18	119.58	123.84
17	3	301	LUT	C1-C2-C3	-2.18	108.72	113.64
19	G	204	CLA	CHA-C1A-NA	-2.18	121.42	126.40
19	A	823	CLA	O2A-CGA-CBA	2.17	118.73	111.91
18	B	856	BCR	C32-C1-C6	-2.17	106.77	110.30
20	2	515	CHL	CMD-C2D-C3D	2.17	128.75	124.68
19	B	829	CLA	C2C-C1C-NC	2.17	112.01	109.97
19	1	505	CLA	CHA-C1A-NA	-2.17	121.42	126.40
20	3	314	CHL	C1-O2A-CGA	2.17	123.27	116.11
18	A	852	BCR	C35-C13-C12	2.17	121.50	118.08
19	1	504	CLA	CAC-C3C-C4C	2.17	127.63	124.81
20	4	316	CHL	CMD-C2D-C3D	2.17	128.74	124.68
19	1	508	CLA	CMB-C2B-C1B	-2.17	125.13	128.46
19	B	820	CLA	C6-C7-C8	-2.17	108.91	115.92
19	1	509	CLA	CAC-C3C-C4C	2.17	127.62	124.81
19	A	854	CLA	C11-C12-C13	-2.17	108.91	115.92
19	B	817	CLA	CMA-C3A-C4A	2.17	117.60	111.77
19	4	318	CLA	CMA-C3A-C4A	2.17	117.60	111.77
24	3	318	LMT	O5'-C1'-C2'	-2.17	105.76	110.35
22	4	322	LMG	O8-C28-C29	2.17	118.70	111.91
19	A	838	CLA	O2A-CGA-CBA	2.17	118.70	111.91
19	A	835	CLA	O2A-CGA-CBA	2.17	118.70	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	2	526	CHL	CMD-C2D-C3D	2.17	128.73	124.68
19	4	305	CLA	CAC-C3C-C4C	2.16	127.62	124.81
19	J	1105	CLA	CMB-C2B-C3B	2.16	128.73	124.68
21	1	517	LHG	O7-C7-O9	-2.16	118.47	123.70
20	2	516	CHL	CMB-C2B-C1B	-2.16	125.14	128.46
19	A	841	CLA	O2D-CGD-O1D	-2.16	119.61	123.84
19	3	311	CLA	CAC-C3C-C4C	2.16	127.61	124.81
19	4	305	CLA	C2C-C1C-NC	2.16	112.00	109.97
19	3	309	CLA	C2C-C1C-NC	2.16	112.00	109.97
21	1	520	LHG	O8-C6-C5	2.16	114.72	108.43
18	B	849	BCR	C8-C7-C6	2.16	133.27	127.20
20	2	526	CHL	C1-C2-C3	-2.16	122.31	126.04
20	2	515	CHL	CHD-C4C-C3C	2.16	128.01	124.84
19	J	1101	CLA	C11-C12-C13	-2.16	108.94	115.92
19	A	814	CLA	CHA-C1A-NA	-2.16	121.46	126.40
26	G	207	DGD	O3G-C3G-C2G	-2.16	105.69	110.90
19	B	835	CLA	CHA-C1A-NA	-2.16	121.46	126.40
19	A	813	CLA	O2D-CGD-O1D	-2.16	119.62	123.84
18	L	302	BCR	C35-C13-C14	-2.16	119.90	122.92
17	J	1109	LUT	C20-C13-C14	-2.16	119.90	122.92
19	A	821	CLA	O2A-CGA-CBA	2.15	118.67	111.91
18	A	852	BCR	C37-C22-C23	2.15	121.47	118.08
19	4	306	CLA	CHA-C1A-NA	-2.15	121.47	126.40
19	3	313	CLA	CHA-C1A-NA	-2.15	121.47	126.40
20	1	514	CHL	C1-O2A-CGA	2.15	122.08	116.44
19	2	507	CLA	CMB-C2B-C1B	-2.15	125.16	128.46
18	L	302	BCR	C30-C25-C26	-2.15	119.59	122.61
19	B	825	CLA	CAA-C2A-C1A	-2.15	104.94	111.97
19	B	807	CLA	O2A-CGA-CBA	2.15	118.64	111.91
19	G	204	CLA	C16-C15-C13	-2.14	108.99	115.92
19	B	817	CLA	CMB-C2B-C3B	2.14	128.69	124.68
17	1	502	LUT	C11-C12-C13	-2.14	120.39	126.42
19	B	822	CLA	CAA-CBA-CGA	-2.14	106.99	113.25
18	A	852	BCR	C40-C30-C25	-2.14	106.82	110.30
18	G	205	BCR	C37-C22-C23	2.14	121.45	118.08
19	A	835	CLA	C2C-C1C-NC	2.14	111.98	109.97
18	L	306	BCR	C38-C26-C27	2.14	117.73	113.62
18	A	856	BCR	C38-C26-C27	2.14	117.73	113.62
19	1	511	CLA	CHA-C1A-NA	-2.14	121.49	126.40
19	A	817	CLA	C1-O2A-CGA	2.14	122.06	116.44
17	4	302	LUT	C11-C10-C9	2.14	130.36	127.31
19	B	815	CLA	O2D-CGD-O1D	-2.14	119.66	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	K	1003	CLA	C3A-C2A-C1A	-2.14	101.76	104.74
19	B	810	CLA	CHA-C1A-NA	-2.14	121.50	126.40
19	B	820	CLA	O2D-CGD-O1D	-2.14	119.66	123.84
19	B	837	CLA	CHA-C1A-NA	-2.14	121.50	126.40
19	B	821	CLA	CAC-C3C-C4C	2.14	127.58	124.81
20	3	314	CHL	CMB-C2B-C1B	-2.14	125.18	128.46
19	2	504	CLA	CMB-C2B-C3B	2.14	128.68	124.68
19	B	813	CLA	CHA-C1A-NA	-2.14	121.51	126.40
19	2	514	CLA	CHA-C1A-NA	-2.14	121.51	126.40
18	A	851	BCR	C10-C11-C12	-2.13	116.56	123.22
19	G	203	CLA	CHA-C1A-NA	-2.13	121.51	126.40
19	H	1000	CLA	CHA-C1A-NA	-2.13	121.51	126.40
18	4	301	BCR	C30-C25-C26	-2.13	119.61	122.61
19	1	509	CLA	CMB-C2B-C3B	2.13	128.67	124.68
18	B	849	BCR	C35-C13-C12	-2.13	114.72	118.08
24	B	846	LMT	O5B-C5B-C4B	2.13	113.57	109.69
19	3	308	CLA	CMB-C2B-C1B	-2.13	125.19	128.46
19	A	823	CLA	CAC-C3C-C4C	2.13	127.58	124.81
19	3	317	CLA	CHA-C1A-NA	-2.13	121.52	126.40
19	4	318	CLA	CMB-C2B-C3B	2.13	128.67	124.68
19	A	815	CLA	CAA-CBA-CGA	-2.13	109.01	113.59
19	B	810	CLA	CMA-C3A-C4A	2.13	117.50	111.77
19	A	815	CLA	CHA-C1A-NA	-2.13	121.52	126.40
19	K	1001	CLA	CHA-C1A-NA	-2.13	121.52	126.40
22	B	844	LMG	O8-C28-O10	-2.13	118.22	123.59
19	4	311	CLA	O1D-CGD-CBD	-2.13	120.13	124.48
19	A	824	CLA	O2A-CGA-CBA	2.13	118.59	111.91
19	A	838	CLA	CHA-C1A-NA	-2.13	121.53	126.40
19	B	832	CLA	O2A-CGA-CBA	2.13	118.58	111.91
18	L	306	BCR	C32-C1-C6	-2.13	106.85	110.30
17	2	501	LUT	C31-C32-C33	-2.13	120.44	126.42
19	B	832	CLA	CAA-CBA-CGA	-2.13	107.04	113.25
18	I	101	BCR	C8-C7-C6	2.12	133.17	127.20
19	B	831	CLA	CMA-C3A-C4A	2.12	117.48	111.77
19	B	834	CLA	CHA-C1A-NA	-2.12	121.53	126.40
19	J	1102	CLA	OBD-CAD-C3D	-2.12	124.45	127.98
18	1	503	BCR	C37-C22-C23	2.12	121.42	118.08
19	2	510	CLA	CHA-C1A-NA	-2.12	121.53	126.40
22	4	322	LMG	O7-C10-O9	-2.12	118.57	123.70
20	1	512	CHL	CMB-C2B-C1B	-2.12	125.20	128.46
18	A	848	BCR	C37-C22-C23	2.12	121.42	118.08
19	1	513	CLA	CHA-C1A-NA	-2.12	121.54	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B	856	BCR	C28-C27-C26	-2.12	110.29	114.08
19	B	824	CLA	CHA-C1A-NA	-2.12	121.55	126.40
18	I	102	BCR	C37-C22-C23	2.12	121.42	118.08
18	J	1108	BCR	C39-C30-C25	-2.12	106.86	110.30
29	A	844	PQN	C21-C20-C18	-2.12	109.07	115.92
17	1	501	LUT	C18-C5-C6	-2.12	122.15	124.53
19	2	508	CLA	C1-O2A-CGA	2.12	122.00	116.44
19	2	508	CLA	CMB-C2B-C1B	-2.12	125.21	128.46
20	4	313	CHL	CHD-C4C-C3C	2.12	127.95	124.84
19	B	803	CLA	C2A-C3A-C4A	2.12	105.29	101.87
19	A	836	CLA	CHA-C1A-NA	-2.12	121.55	126.40
19	A	835	CLA	CHA-C1A-NA	-2.12	121.55	126.40
22	2	519	LMG	O8-C28-O10	-2.12	118.25	123.59
19	G	202	CLA	CHA-C1A-NA	-2.11	121.56	126.40
19	A	809	CLA	CMB-C2B-C1B	-2.11	125.21	128.46
19	3	308	CLA	CHA-C1A-NA	-2.11	121.56	126.40
19	A	802	CLA	CHA-C1A-NA	-2.11	121.56	126.40
24	2	523	LMT	O5B-C5B-C4B	2.11	113.53	109.69
19	2	510	CLA	CMB-C2B-C1B	-2.11	125.22	128.46
20	2	515	CHL	CMB-C2B-C1B	-2.11	125.22	128.46
19	F	303	CLA	O2A-CGA-CBA	2.11	118.53	111.91
19	1	509	CLA	CHA-C1A-NA	-2.11	121.56	126.40
19	B	826	CLA	CMB-C2B-C3B	2.11	128.62	124.68
17	2	501	LUT	C31-C30-C29	2.11	130.32	127.31
20	4	313	CHL	CMB-C2B-C1B	-2.11	125.22	128.46
19	A	819	CLA	C1-O2A-CGA	2.11	121.97	116.44
19	1	516	CLA	CHA-C1A-NA	-2.11	121.57	126.40
26	J	1106	DGD	C2G-O2G-C1B	2.11	122.97	117.79
19	1	513	CLA	OBD-CAD-C3D	-2.10	124.49	127.98
18	B	852	BCR	C8-C9-C10	2.10	122.17	118.94
19	A	834	CLA	C1-O2A-CGA	2.10	121.96	116.44
19	A	814	CLA	O2A-CGA-CBA	2.10	118.51	111.91
19	2	511	CLA	CHA-C1A-NA	-2.10	121.58	126.40
21	A	845	LHG	O8-C23-O10	-2.10	118.28	123.59
20	1	512	CHL	C2C-C3C-C4C	2.10	107.99	106.49
19	4	312	CLA	CAC-C3C-C4C	2.10	127.53	124.81
19	3	310	CLA	CHA-C1A-NA	-2.10	121.59	126.40
18	4	301	BCR	C8-C9-C10	2.10	122.16	118.94
24	G	208	LMT	C1'-O5'-C5'	-2.10	109.57	113.69
19	1	516	CLA	CAC-C3C-C4C	2.10	127.53	124.81
19	4	310	CLA	OBD-CAD-C3D	-2.10	124.50	127.98
18	A	849	BCR	C37-C22-C23	2.10	121.38	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	3	302	LUT	C19-C9-C8	2.10	121.38	118.08
20	1	512	CHL	C3A-C2A-C1A	2.10	104.48	101.34
20	4	317	CHL	CMB-C2B-C1B	-2.10	125.24	128.46
19	H	1000	CLA	O2A-CGA-CBA	2.10	118.48	111.91
19	4	310	CLA	CHA-C1A-NA	-2.10	121.60	126.40
20	2	516	CHL	C1B-CHB-C4A	-2.09	125.97	130.12
20	4	314	CHL	CMB-C2B-C1B	-2.09	125.25	128.46
19	1	509	CLA	C1-O2A-CGA	2.09	121.94	116.44
19	B	822	CLA	O2A-CGA-CBA	2.09	118.48	111.91
20	4	316	CHL	C4A-NA-C1A	2.09	107.65	106.71
19	A	825	CLA	C2C-C1C-NC	2.09	111.93	109.97
20	2	526	CHL	CMB-C2B-C1B	-2.09	125.25	128.46
22	J	1104	LMG	C9-C8-C7	-2.09	106.84	111.79
20	4	316	CHL	CHD-C4C-C3C	2.09	127.91	124.84
19	B	822	CLA	OBD-CAD-C3D	-2.09	124.51	127.98
19	A	825	CLA	CHA-C1A-NA	-2.09	121.61	126.40
19	A	827	CLA	CHA-C1A-NA	-2.09	121.61	126.40
19	B	827	CLA	CMB-C2B-C1B	-2.09	125.25	128.46
17	1	502	LUT	C40-C33-C34	-2.09	120.00	122.92
19	B	803	CLA	CHA-C1A-NA	-2.09	121.62	126.40
19	A	812	CLA	CAC-C3C-C4C	2.09	127.52	124.81
18	A	850	BCR	C35-C13-C14	-2.09	120.00	122.92
20	2	526	CHL	C1B-CHB-C4A	-2.09	125.98	130.12
20	4	317	CHL	CMD-C2D-C3D	2.09	128.58	124.68
19	K	1001	CLA	CMB-C2B-C3B	2.09	128.58	124.68
19	A	827	CLA	O2A-CGA-CBA	2.08	118.45	111.91
20	1	514	CHL	CMB-C2B-C1B	-2.08	125.26	128.46
18	F	306	BCR	C39-C30-C25	-2.08	106.92	110.30
18	I	101	BCR	C39-C30-C25	-2.08	106.92	110.30
19	A	802	CLA	CAA-C2A-C3A	-2.08	107.08	112.78
19	B	811	CLA	OBD-CAD-C3D	-2.08	124.53	127.98
18	L	302	BCR	C39-C30-C25	-2.08	106.92	110.30
19	2	506	CLA	CHA-C1A-NA	-2.08	121.63	126.40
22	B	845	LMG	C1-O6-C5	2.08	117.77	113.69
19	J	1101	CLA	C11-C10-C8	-2.08	109.19	115.92
19	1	513	CLA	CMB-C2B-C3B	2.08	128.57	124.68
21	B	842	LHG	O7-C7-O9	-2.08	118.83	122.96
19	B	820	CLA	C11-C10-C8	-2.08	109.20	115.92
18	B	853	BCR	C29-C28-C27	-2.08	106.73	111.38
20	1	521	CHL	CMB-C2B-C1B	-2.08	125.27	128.46
19	4	308	CLA	O2A-CGA-CBA	2.08	118.43	111.91
27	A	801	CL0	C4-C3-C5	2.08	118.76	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	B	805	CLA	CAC-C3C-C4C	2.08	127.50	124.81
19	B	819	CLA	CMB-C2B-C1B	-2.07	125.28	128.46
19	A	802	CLA	CBC-CAC-C3C	-2.07	106.71	112.43
20	1	514	CHL	CHC-C1C-NC	2.07	127.35	124.20
26	B	801	DGD	O3G-C3G-C2G	2.07	115.90	110.90
19	2	505	CLA	CHA-C1A-NA	-2.07	121.65	126.40
18	A	856	BCR	C37-C22-C23	2.07	121.34	118.08
18	4	301	BCR	C37-C22-C23	2.07	121.34	118.08
19	B	824	CLA	O2A-CGA-CBA	2.07	118.41	111.91
19	G	202	CLA	CMB-C2B-C3B	2.07	128.55	124.68
19	J	1101	CLA	C1-O2A-CGA	2.07	121.87	116.44
20	3	314	CHL	CMD-C2D-C3D	2.07	128.55	124.68
19	B	820	CLA	CHA-C1A-NA	-2.07	121.66	126.40
19	3	305	CLA	CHA-C1A-NA	-2.07	121.66	126.40
19	A	840	CLA	O2A-CGA-CBA	2.07	118.40	111.91
22	2	520	LMG	O1-C1-C2	2.07	110.57	108.15
20	4	316	CHL	CMB-C2B-C1B	-2.07	125.29	128.46
19	2	504	CLA	CAA-C2A-C1A	-2.07	105.21	111.97
17	4	302	LUT	C20-C13-C12	2.07	121.33	118.08
22	2	519	LMG	O1-C1-C2	2.06	111.53	108.30
19	2	509	CLA	CHA-C1A-NA	-2.06	121.67	126.40
18	K	1005	BCR	C38-C26-C27	2.06	117.58	113.62
22	B	845	LMG	O7-C10-O9	-2.06	118.72	123.70
18	A	849	BCR	C10-C11-C12	-2.06	116.78	123.22
19	4	315	CLA	CMB-C2B-C3B	2.06	128.54	124.68
18	A	850	BCR	C38-C26-C25	-2.06	122.21	124.53
19	A	806	CLA	CHA-C1A-NA	-2.06	121.68	126.40
17	2	501	LUT	C39-C29-C28	2.06	121.32	118.08
18	A	852	BCR	C8-C9-C10	-2.06	115.78	118.94
19	A	833	CLA	O2D-CGD-O1D	-2.06	119.81	123.84
20	2	512	CHL	C1-O2A-CGA	2.06	122.89	116.11
19	A	828	CLA	C1-O2A-CGA	2.06	121.84	116.44
19	3	315	CLA	CHA-C1A-NA	-2.06	121.69	126.40
19	3	316	CLA	CHA-C1A-NA	-2.06	121.69	126.40
19	G	201	CLA	C1-O2A-CGA	2.05	121.83	116.44
17	J	1109	LUT	C38-C25-C24	-2.05	119.16	123.56
19	4	307	CLA	C11-C10-C8	-2.05	109.29	115.92
18	2	503	BCR	C36-C18-C19	-2.05	114.84	118.08
19	1	507	CLA	CMD-C2D-C3D	-2.05	120.84	124.68
19	A	804	CLA	O2A-CGA-CBA	2.05	118.34	111.91
19	3	311	CLA	CAA-C2A-C3A	-2.05	111.31	116.10
19	A	833	CLA	CMB-C2B-C1B	-2.05	125.31	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	841	CLA	C1-O2A-CGA	2.05	121.82	116.44
18	I	102	BCR	C23-C24-C25	2.05	132.96	127.20
26	B	854	DGD	O6D-C5D-C6D	2.05	110.80	106.67
19	4	315	CLA	CHA-C1A-NA	-2.05	121.71	126.40
20	2	515	CHL	C4A-NA-C1A	2.05	107.63	106.71
18	A	852	BCR	C12-C13-C14	-2.05	115.80	118.94
19	A	804	CLA	CHA-C1A-NA	-2.05	121.71	126.40
19	3	312	CLA	CHA-C1A-NA	-2.05	121.71	126.40
19	A	822	CLA	CHA-C1A-NA	-2.05	121.71	126.40
18	L	302	BCR	C34-C9-C10	-2.05	120.06	122.92
19	4	307	CLA	CAC-C3C-C4C	2.05	127.46	124.81
19	A	818	CLA	CHA-C1A-NA	-2.04	121.72	126.40
19	B	832	CLA	O2D-CGD-O1D	-2.04	119.84	123.84
19	4	309	CLA	CAC-C3C-C4C	2.04	127.46	124.81
22	G	206	LMG	O7-C10-O9	-2.04	118.76	123.70
19	B	832	CLA	CMA-C3A-C4A	2.04	117.27	111.77
19	A	812	CLA	O2A-CGA-CBA	2.04	118.32	111.91
22	2	518	LMG	O7-C10-O9	-2.04	118.76	123.70
20	2	513	CHL	CMB-C2B-C1B	-2.04	125.32	128.46
18	B	853	BCR	C10-C11-C12	-2.04	116.84	123.22
18	I	102	BCR	C35-C13-C12	2.04	121.30	118.08
19	B	808	CLA	C1-O2A-CGA	2.04	121.80	116.44
19	A	821	CLA	CAC-C3C-C4C	2.04	127.46	124.81
23	2	502	XAT	C6-C7-C8	-2.04	121.68	125.99
24	B	855	LMT	C3B-C4B-C5B	-2.04	106.60	110.24
19	L	301	CLA	O2D-CGD-O1D	-2.04	119.85	123.84
19	1	504	CLA	CHA-C1A-NA	-2.04	121.73	126.40
24	B	855	LMT	C1'-O5'-C5'	-2.04	109.69	113.69
19	A	834	CLA	O2A-CGA-CBA	2.04	118.30	111.91
19	L	303	CLA	O2A-CGA-CBA	2.04	118.30	111.91
19	G	203	CLA	OBD-CAD-C3D	-2.04	124.60	127.98
19	A	821	CLA	CHA-C1A-NA	-2.04	121.74	126.40
19	H	1000	CLA	C2C-C1C-NC	2.04	111.88	109.97
29	A	844	PQN	C11-C12-C13	-2.04	123.40	126.79
19	A	813	CLA	C1-O2A-CGA	2.03	121.78	116.44
18	B	853	BCR	C28-C27-C26	-2.03	110.44	114.08
20	1	521	CHL	CHD-C4C-C3C	2.03	127.83	124.84
18	B	849	BCR	C40-C30-C25	-2.03	107.00	110.30
17	3	301	LUT	C40-C33-C34	-2.03	120.08	122.92
19	A	820	CLA	CHA-C1A-NA	-2.03	121.74	126.40
19	J	1105	CLA	CAA-CBA-CGA	-2.03	107.32	113.25
19	4	309	CLA	O2A-CGA-CBA	2.03	118.28	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	J	1108	BCR	C29-C28-C27	2.03	115.92	111.38
18	B	802	BCR	C8-C7-C6	2.03	132.90	127.20
19	G	201	CLA	OBD-CAD-C3D	-2.03	124.61	127.98
19	4	315	CLA	CAC-C3C-C4C	2.03	127.44	124.81
19	A	823	CLA	CHA-C1A-NA	-2.03	121.75	126.40
19	A	839	CLA	O2D-CGD-O1D	-2.03	119.88	123.84
18	A	848	BCR	C34-C9-C10	-2.03	120.09	122.92
19	B	804	CLA	CAA-C2A-C3A	-2.03	107.23	112.78
19	F	302	CLA	CHA-C1A-NA	-2.03	121.76	126.40
20	2	515	CHL	CHC-C1C-NC	2.02	127.28	124.20
19	3	307	CLA	CAA-CBA-CGA	-2.02	107.34	113.25
22	J	1104	LMG	O8-C28-C29	2.02	118.26	111.91
22	2	519	LMG	C4-C3-C2	-2.02	107.29	110.82
23	4	303	XAT	C6-C7-C8	-2.02	121.72	125.99
19	A	814	CLA	CMB-C2B-C1B	-2.02	125.36	128.46
17	1	502	LUT	C19-C9-C10	-2.02	120.09	122.92
18	B	851	BCR	C37-C22-C23	2.02	121.26	118.08
19	A	805	CLA	O2A-CGA-CBA	2.02	118.25	111.91
29	A	844	PQN	C2M-C2-C1	2.02	119.62	116.27
22	2	519	LMG	O7-C10-O9	-2.02	118.82	123.70
17	1	501	LUT	C40-C33-C34	-2.02	120.09	122.92
17	J	1109	LUT	C28-C29-C30	2.02	122.04	118.94
19	1	508	CLA	CAA-CBA-CGA	-2.02	107.36	113.25
19	B	807	CLA	CHA-C1A-NA	-2.02	121.78	126.40
19	B	837	CLA	CMA-C3A-C4A	2.02	117.19	111.77
19	4	304	CLA	CMB-C2B-C1B	-2.02	125.36	128.46
19	B	827	CLA	CMB-C2B-C3B	2.02	128.45	124.68
18	3	304	BCR	C37-C22-C23	2.02	121.25	118.08
24	3	318	LMT	C1'-O5'-C5'	-2.01	109.73	113.69
26	J	1106	DGD	C3E-C4E-C5E	2.01	113.83	110.24
20	4	313	CHL	CHC-C1C-NC	2.01	127.26	124.20
19	4	305	CLA	CMA-C3A-C2A	2.01	121.95	113.83
18	3	304	BCR	C34-C9-C10	-2.01	120.10	122.92
19	2	508	CLA	CHA-C1A-NA	-2.01	121.79	126.40
18	A	848	BCR	C30-C25-C26	-2.01	119.78	122.61
17	3	302	LUT	C28-C29-C30	2.01	122.03	118.94
19	B	832	CLA	CMB-C2B-C3B	2.01	128.44	124.68
19	A	825	CLA	O2D-CGD-O1D	-2.01	119.91	123.84
19	K	1003	CLA	CHA-C1A-NA	-2.01	121.89	126.41
19	B	838	CLA	CHA-C1A-NA	-2.01	121.80	126.40
20	2	515	CHL	C2C-C3C-C4C	2.01	107.92	106.49
18	B	850	BCR	C37-C22-C23	2.01	121.24	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	L	303	CLA	CHA-C1A-NA	-2.00	121.81	126.40
18	3	304	BCR	C24-C25-C26	-2.00	116.61	121.46
26	4	319	DGD	C1D-O6D-C5D	-2.00	109.75	113.69
17	1	501	LUT	C19-C9-C10	-2.00	120.12	122.92
19	A	815	CLA	CAC-C3C-C4C	2.00	127.41	124.81
19	B	822	CLA	CHA-C1A-NA	-2.00	121.82	126.40

All (435) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
19	A	840	CLA	NC
19	A	840	CLA	ND
19	A	840	CLA	NA
19	3	308	CLA	ND
19	3	308	CLA	NA
19	4	309	CLA	NC
19	4	309	CLA	ND
19	4	309	CLA	NA
19	A	838	CLA	NC
19	A	838	CLA	ND
19	A	838	CLA	NA
20	1	514	CHL	C8
20	1	514	CHL	NC
20	1	514	CHL	ND
20	1	514	CHL	NA
19	3	306	CLA	ND
19	3	306	CLA	NA
19	A	808	CLA	NC
19	A	808	CLA	ND
19	A	808	CLA	NA
19	B	815	CLA	NC
19	B	815	CLA	ND
19	B	815	CLA	NA
19	B	824	CLA	ND
19	B	824	CLA	NA
19	L	304	CLA	NC
19	L	304	CLA	ND
19	L	304	CLA	NA
19	A	821	CLA	NC
19	A	821	CLA	ND
19	A	821	CLA	NA
20	2	516	CHL	C8

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Mol	Chain	Res	Type	Atom
20	2	516	CHL	NC
20	2	516	CHL	ND
20	2	516	CHL	NA
19	A	810	CLA	NC
19	A	810	CLA	ND
19	A	810	CLA	NA
19	1	516	CLA	NC
19	1	516	CLA	ND
19	1	516	CLA	NA
19	B	834	CLA	NC
19	B	834	CLA	ND
19	B	834	CLA	NA
19	A	832	CLA	ND
19	A	832	CLA	NA
19	A	805	CLA	NC
19	A	805	CLA	ND
19	A	805	CLA	NA
19	B	808	CLA	NC
19	B	808	CLA	ND
19	B	808	CLA	NA
19	A	804	CLA	NC
19	A	804	CLA	ND
19	A	804	CLA	NA
19	B	833	CLA	NC
19	B	833	CLA	ND
19	B	833	CLA	NA
19	J	1102	CLA	NC
19	J	1102	CLA	ND
19	J	1102	CLA	NA
20	2	513	CHL	NC
20	2	513	CHL	ND
20	2	513	CHL	NA
20	1	512	CHL	NC
20	1	512	CHL	ND
20	1	512	CHL	NA
17	2	501	LUT	C26
19	A	830	CLA	NC
19	A	830	CLA	ND
19	A	830	CLA	NA
19	K	1002	CLA	NC
19	K	1002	CLA	ND
19	K	1002	CLA	NA

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Mol	Chain	Res	Type	Atom
19	2	510	CLA	NC
19	2	510	CLA	ND
19	2	510	CLA	NA
19	B	830	CLA	NC
19	B	830	CLA	NA
19	3	315	CLA	NC
19	3	315	CLA	ND
19	3	315	CLA	NA
19	A	842	CLA	NC
19	A	842	CLA	ND
19	A	842	CLA	NA
19	B	820	CLA	ND
19	B	820	CLA	NA
19	A	825	CLA	ND
19	A	825	CLA	NA
19	3	316	CLA	ND
19	3	316	CLA	NA
19	3	313	CLA	NC
19	3	313	CLA	ND
19	3	313	CLA	NA
19	2	508	CLA	NC
19	2	508	CLA	ND
19	2	508	CLA	NA
19	B	826	CLA	NC
19	B	826	CLA	ND
19	B	826	CLA	NA
19	4	306	CLA	NC
19	4	306	CLA	ND
19	4	306	CLA	NA
19	B	837	CLA	ND
19	B	837	CLA	NA
19	B	816	CLA	NC
19	B	816	CLA	ND
19	B	816	CLA	NA
17	3	302	LUT	C26
19	A	827	CLA	NC
19	A	827	CLA	ND
19	A	827	CLA	NA
19	A	833	CLA	NC
19	A	833	CLA	ND
19	A	833	CLA	NA
19	1	508	CLA	NC

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Mol	Chain	Res	Type	Atom
19	1	508	CLA	NA
19	4	305	CLA	ND
19	4	305	CLA	NA
20	2	515	CHL	NC
20	2	515	CHL	ND
20	2	515	CHL	NA
19	B	817	CLA	NC
19	B	817	CLA	ND
19	B	817	CLA	NA
19	A	839	CLA	NC
19	A	839	CLA	ND
19	A	839	CLA	NA
17	1	502	LUT	C26
19	3	312	CLA	ND
19	3	312	CLA	NA
19	G	201	CLA	NC
19	G	201	CLA	ND
19	G	201	CLA	NA
20	4	314	CHL	NC
20	4	314	CHL	ND
20	4	314	CHL	NA
19	4	310	CLA	NC
19	4	310	CLA	ND
19	4	310	CLA	NA
19	A	854	CLA	NA
19	A	854	CLA	ND
19	4	315	CLA	NC
19	4	315	CLA	ND
19	4	315	CLA	NA
19	A	823	CLA	NC
19	A	823	CLA	ND
19	A	823	CLA	NA
19	B	823	CLA	NC
19	B	823	CLA	ND
19	B	823	CLA	NA
19	L	305	CLA	NC
19	L	305	CLA	ND
19	L	305	CLA	NA
19	A	822	CLA	NC
19	A	822	CLA	ND
19	A	822	CLA	NA
19	G	203	CLA	NC

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Mol	Chain	Res	Type	Atom
19	G	203	CLA	ND
19	G	203	CLA	NA
19	A	813	CLA	NC
19	A	813	CLA	ND
19	A	813	CLA	NA
19	A	835	CLA	ND
19	A	835	CLA	NA
19	3	310	CLA	NC
19	3	310	CLA	ND
19	3	310	CLA	NA
19	B	828	CLA	NC
19	B	828	CLA	ND
19	B	828	CLA	NA
19	B	822	CLA	NC
19	B	822	CLA	ND
19	B	822	CLA	NA
19	B	822	CLA	NA
19	L	301	CLA	NC
19	L	301	CLA	ND
19	L	301	CLA	NA
27	A	801	CL0	NC
27	A	801	CL0	ND
27	A	801	CL0	NA
20	4	317	CHL	NC
20	4	317	CHL	ND
20	4	317	CHL	NA
19	3	311	CLA	NC
19	3	311	CLA	ND
19	3	311	CLA	NA
19	B	806	CLA	ND
19	B	806	CLA	NA
19	B	839	CLA	NC
19	B	839	CLA	ND
19	B	839	CLA	NA
19	B	836	CLA	ND
19	B	836	CLA	NA
19	B	840	CLA	NC
19	B	840	CLA	NA
19	A	814	CLA	ND
19	A	814	CLA	NA
19	4	308	CLA	NA
19	G	202	CLA	NC
19	G	202	CLA	NA

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Mol	Chain	Res	Type	Atom
19	B	825	CLA	NC
19	B	825	CLA	ND
19	B	825	CLA	NA
19	1	504	CLA	NC
19	1	504	CLA	ND
19	1	504	CLA	NA
20	1	521	CHL	C8
20	1	521	CHL	NC
20	1	521	CHL	ND
20	1	521	CHL	NA
19	A	806	CLA	NC
19	A	806	CLA	ND
19	A	806	CLA	NA
19	A	855	CLA	NC
19	A	855	CLA	ND
19	A	855	CLA	NA
19	A	826	CLA	NC
19	A	826	CLA	ND
19	A	826	CLA	NA
19	B	821	CLA	NC
19	B	821	CLA	ND
19	B	821	CLA	NA
19	3	309	CLA	NA
19	B	819	CLA	NC
19	B	819	CLA	ND
19	B	819	CLA	NA
19	K	1004	CLA	NC
19	K	1004	CLA	ND
19	K	1004	CLA	NA
19	J	1101	CLA	ND
19	J	1101	CLA	NA
19	2	507	CLA	NC
19	2	507	CLA	ND
19	2	507	CLA	NA
19	A	802	CLA	NC
19	A	802	CLA	ND
19	A	802	CLA	NA
19	1	515	CLA	NC
19	1	515	CLA	ND
19	1	515	CLA	NA
23	4	303	XAT	C6
23	4	303	XAT	C5

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Mol	Chain	Res	Type	Atom
19	4	312	CLA	NC
19	4	312	CLA	NA
19	A	834	CLA	NC
19	A	834	CLA	NA
19	B	838	CLA	NC
19	B	838	CLA	ND
19	B	838	CLA	NA
19	2	505	CLA	ND
19	2	505	CLA	NA
19	1	509	CLA	NC
19	1	509	CLA	ND
19	1	509	CLA	NA
19	2	509	CLA	NC
19	2	509	CLA	ND
19	2	509	CLA	NA
19	A	828	CLA	NC
19	A	828	CLA	ND
19	A	828	CLA	NA
19	B	831	CLA	NC
19	B	831	CLA	ND
19	B	831	CLA	NA
19	3	305	CLA	NC
19	3	305	CLA	NA
19	3	305	CLA	ND
19	1	513	CLA	NC
19	1	513	CLA	ND
19	1	513	CLA	NA
19	K	1003	CLA	ND
19	K	1003	CLA	NA
19	A	815	CLA	NC
19	A	815	CLA	ND
19	A	815	CLA	NA
19	B	813	CLA	NC
19	B	813	CLA	ND
19	B	813	CLA	NA
19	B	805	CLA	NC
19	B	805	CLA	ND
19	B	805	CLA	NA
19	A	812	CLA	NC
19	A	812	CLA	NA
19	F	303	CLA	NA
19	1	507	CLA	NC

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Mol	Chain	Res	Type	Atom
19	1	507	CLA	ND
19	1	507	CLA	NA
19	4	304	CLA	NC
19	4	304	CLA	ND
19	4	304	CLA	NA
19	B	804	CLA	NC
19	B	804	CLA	ND
19	B	804	CLA	NA
19	A	811	CLA	NC
19	A	811	CLA	ND
19	A	811	CLA	NA
19	4	318	CLA	NC
19	4	318	CLA	ND
19	4	318	CLA	NA
19	1	506	CLA	NC
19	1	506	CLA	ND
19	1	506	CLA	NA
19	G	204	CLA	NC
19	G	204	CLA	ND
19	G	204	CLA	NA
19	A	841	CLA	NC
19	A	841	CLA	ND
19	A	841	CLA	NA
20	4	316	CHL	C8
20	4	316	CHL	NC
20	4	316	CHL	ND
20	4	316	CHL	NA
19	F	302	CLA	NC
19	F	302	CLA	ND
19	F	302	CLA	NA
19	B	810	CLA	NC
19	B	810	CLA	ND
19	B	810	CLA	NA
19	A	820	CLA	ND
19	A	820	CLA	NA
19	A	816	CLA	NC
19	A	816	CLA	ND
19	A	816	CLA	NA
19	A	837	CLA	NC
19	A	837	CLA	ND
19	A	837	CLA	NA
19	A	817	CLA	NC

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Mol	Chain	Res	Type	Atom
19	A	817	CLA	ND
19	A	817	CLA	NA
19	B	812	CLA	NC
19	B	812	CLA	ND
19	B	812	CLA	NA
19	B	807	CLA	ND
19	B	807	CLA	NA
19	1	510	CLA	NC
19	1	510	CLA	ND
19	1	510	CLA	NA
19	A	836	CLA	NA
19	B	818	CLA	NC
19	B	818	CLA	ND
19	B	818	CLA	NA
20	2	512	CHL	NC
20	2	512	CHL	ND
20	2	512	CHL	NA
19	A	809	CLA	NC
19	A	809	CLA	ND
19	A	809	CLA	NA
19	A	824	CLA	NC
19	A	824	CLA	ND
19	A	824	CLA	NA
19	2	506	CLA	NC
19	2	506	CLA	ND
19	2	506	CLA	NA
20	3	314	CHL	NC
20	3	314	CHL	ND
20	3	314	CHL	NA
19	1	511	CLA	NC
19	1	511	CLA	ND
19	1	511	CLA	NA
19	K	1001	CLA	NC
19	K	1001	CLA	ND
19	K	1001	CLA	NA
19	B	809	CLA	NC
19	B	809	CLA	ND
19	B	809	CLA	NA
19	A	807	CLA	NC
19	A	807	CLA	ND
19	A	807	CLA	NA
19	B	803	CLA	NC

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Mol	Chain	Res	Type	Atom
19	B	803	CLA	ND
19	B	803	CLA	NA
20	2	526	CHL	C8
20	2	526	CHL	NC
20	2	526	CHL	ND
20	2	526	CHL	NA
19	A	819	CLA	NC
19	A	819	CLA	ND
19	A	819	CLA	NA
19	J	1105	CLA	NC
19	J	1105	CLA	ND
19	J	1105	CLA	NA
17	J	1109	LUT	C26
19	B	827	CLA	NA
19	B	827	CLA	ND
19	B	832	CLA	NC
19	B	832	CLA	ND
19	B	832	CLA	NA
19	B	814	CLA	NC
19	B	814	CLA	ND
19	B	814	CLA	NA
19	L	303	CLA	NC
19	L	303	CLA	ND
19	L	303	CLA	NA
19	B	829	CLA	NC
19	B	829	CLA	ND
19	B	829	CLA	NA
19	2	514	CLA	NC
19	2	514	CLA	ND
19	2	514	CLA	NA
19	4	311	CLA	ND
19	4	311	CLA	NA
19	2	511	CLA	NC
19	2	511	CLA	ND
19	2	511	CLA	NA
20	4	313	CHL	NC
20	4	313	CHL	ND
20	4	313	CHL	NA
19	3	307	CLA	NC
19	3	307	CLA	ND
19	3	307	CLA	NA
19	A	818	CLA	NC

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Mol	Chain	Res	Type	Atom
19	A	818	CLA	ND
19	A	818	CLA	NA
19	B	811	CLA	NC
19	B	811	CLA	ND
19	B	811	CLA	NA
19	B	835	CLA	NA
19	A	831	CLA	NC
19	A	831	CLA	ND
19	A	831	CLA	NA
19	3	317	CLA	ND
19	3	317	CLA	NA
19	A	803	CLA	NA
19	A	803	CLA	ND
19	2	504	CLA	NC
19	2	504	CLA	ND
19	2	504	CLA	NA
19	1	505	CLA	NA
19	4	307	CLA	NC
19	4	307	CLA	ND
19	4	307	CLA	NA
19	H	1000	CLA	ND
19	H	1000	CLA	NA
19	A	829	CLA	NC
19	A	829	CLA	ND
19	A	829	CLA	NA

All (2681) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
19	A	840	CLA	C2-C1-O2A-CGA
19	A	840	CLA	CBD-CGD-O2D-CED
19	A	840	CLA	C2-C3-C5-C6
19	A	840	CLA	C4-C3-C5-C6
19	3	308	CLA	C2-C1-O2A-CGA
19	3	308	CLA	CBD-CGD-O2D-CED
19	4	309	CLA	C1A-C2A-CAA-CBA
19	4	309	CLA	C3A-C2A-CAA-CBA
19	4	309	CLA	CHA-CBD-CGD-O1D
19	4	309	CLA	CHA-CBD-CGD-O2D
26	B	801	DGD	O6D-C1D-O3G-C3G
26	B	801	DGD	O6E-C1E-O5D-C6D
18	B	802	BCR	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
18	B	802	BCR	C11-C10-C9-C34
19	A	838	CLA	CHA-CBD-CGD-O1D
19	A	838	CLA	CHA-CBD-CGD-O2D
19	A	838	CLA	C4-C3-C5-C6
18	A	849	BCR	C11-C10-C9-C8
18	A	849	BCR	C11-C10-C9-C34
18	A	849	BCR	C10-C11-C12-C13
18	A	849	BCR	C17-C18-C19-C20
18	A	849	BCR	C36-C18-C19-C20
18	A	849	BCR	C23-C24-C25-C30
20	1	514	CHL	C1A-C2A-CAA-CBA
20	1	514	CHL	C3A-C2A-CAA-CBA
20	1	514	CHL	C11-C10-C8-C9
24	3	318	LMT	C2-C1-O1'-C1'
19	3	306	CLA	C2-C1-O2A-CGA
19	A	808	CLA	C3A-C2A-CAA-CBA
19	A	808	CLA	CHA-CBD-CGD-O1D
19	A	808	CLA	CHA-CBD-CGD-O2D
19	A	808	CLA	C2-C3-C5-C6
19	A	808	CLA	C4-C3-C5-C6
19	B	824	CLA	C2-C1-O2A-CGA
19	L	304	CLA	CHA-CBD-CGD-O1D
19	L	304	CLA	CHA-CBD-CGD-O2D
19	A	821	CLA	C2-C1-O2A-CGA
19	A	821	CLA	C2-C3-C5-C6
19	A	821	CLA	C4-C3-C5-C6
19	A	821	CLA	C11-C10-C8-C9
18	4	301	BCR	C11-C10-C9-C8
18	4	301	BCR	C11-C10-C9-C34
18	4	301	BCR	C10-C11-C12-C13
18	4	301	BCR	C17-C18-C19-C20
18	4	301	BCR	C36-C18-C19-C20
18	4	301	BCR	C21-C22-C23-C24
18	4	301	BCR	C37-C22-C23-C24
19	A	810	CLA	CHA-CBD-CGD-O1D
19	A	810	CLA	CHA-CBD-CGD-O2D
19	1	516	CLA	CBD-CGD-O2D-CED
19	1	516	CLA	C6-C7-C8-C9
22	2	522	LMG	C2-C1-O1-C7
22	2	522	LMG	O6-C1-O1-C7
19	B	834	CLA	C2-C1-O2A-CGA
19	B	834	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
19	B	834	CLA	C2-C3-C5-C6
19	B	834	CLA	C4-C3-C5-C6
18	B	850	BCR	C17-C18-C19-C20
18	B	850	BCR	C36-C18-C19-C20
18	B	850	BCR	C21-C22-C23-C24
18	B	850	BCR	C37-C22-C23-C24
26	B	854	DGD	C2B-C1B-O2G-C2G
26	B	854	DGD	O1B-C1B-O2G-C2G
19	A	805	CLA	CHA-CBD-CGD-O1D
19	A	805	CLA	CHA-CBD-CGD-O2D
19	A	805	CLA	CAD-CBD-CGD-O1D
19	A	805	CLA	CAD-CBD-CGD-O2D
19	B	808	CLA	C11-C10-C8-C9
19	A	804	CLA	C1A-C2A-CAA-CBA
19	A	804	CLA	C3A-C2A-CAA-CBA
18	2	503	BCR	C11-C10-C9-C8
18	2	503	BCR	C11-C10-C9-C34
18	2	503	BCR	C13-C14-C15-C16
18	2	503	BCR	C21-C22-C23-C24
18	2	503	BCR	C37-C22-C23-C24
17	2	501	LUT	C1-C6-C7-C8
17	2	501	LUT	C21-C26-C27-C28
17	2	501	LUT	C31-C32-C33-C34
17	2	501	LUT	C31-C32-C33-C40
19	A	830	CLA	CHA-CBD-CGD-O2D
19	K	1002	CLA	C1A-C2A-CAA-CBA
19	K	1002	CLA	CHA-CBD-CGD-O1D
19	K	1002	CLA	CHA-CBD-CGD-O2D
19	3	315	CLA	CBD-CGD-O2D-CED
19	A	842	CLA	CHA-CBD-CGD-O1D
19	A	842	CLA	CHA-CBD-CGD-O2D
19	A	842	CLA	CBD-CGD-O2D-CED
19	A	842	CLA	C2-C3-C5-C6
19	A	842	CLA	C4-C3-C5-C6
18	I	102	BCR	C7-C8-C9-C34
18	I	102	BCR	C11-C10-C9-C8
18	I	102	BCR	C11-C10-C9-C34
18	I	102	BCR	C11-C12-C13-C14
18	I	102	BCR	C11-C12-C13-C35
18	I	102	BCR	C36-C18-C19-C20
18	I	102	BCR	C23-C24-C25-C26
19	3	316	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
19	3	316	CLA	CHA-CBD-CGD-O2D
19	3	313	CLA	C1A-C2A-CAA-CBA
19	3	313	CLA	C2-C1-O2A-CGA
29	A	844	PQN	C12-C13-C15-C16
29	A	844	PQN	C14-C13-C15-C16
19	2	508	CLA	C2-C1-O2A-CGA
19	4	306	CLA	CBD-CGD-O2D-CED
19	4	306	CLA	C2-C3-C5-C6
19	4	306	CLA	C4-C3-C5-C6
19	B	837	CLA	C2-C1-O2A-CGA
17	3	302	LUT	C27-C28-C29-C30
17	3	302	LUT	C27-C28-C29-C39
19	A	827	CLA	CHA-CBD-CGD-O1D
19	A	827	CLA	CHA-CBD-CGD-O2D
19	A	833	CLA	CHA-CBD-CGD-O1D
19	A	833	CLA	CHA-CBD-CGD-O2D
22	4	322	LMG	O6-C1-O1-C7
22	4	322	LMG	C11-C10-O7-C8
18	1	503	BCR	C36-C18-C19-C20
18	1	503	BCR	C23-C24-C25-C26
18	1	503	BCR	C23-C24-C25-C30
21	2	517	LHG	O1-C1-C2-C3
19	A	839	CLA	CHA-CBD-CGD-O1D
19	A	839	CLA	CHA-CBD-CGD-O2D
21	A	845	LHG	O2-C2-C3-O3
21	A	845	LHG	C4-O6-P-O5
21	A	845	LHG	O6-C4-C5-O7
22	B	845	LMG	O9-C10-O7-C8
22	B	845	LMG	C11-C10-O7-C8
17	1	502	LUT	C21-C26-C27-C28
17	1	502	LUT	C27-C28-C29-C30
17	1	502	LUT	C27-C28-C29-C39
17	1	502	LUT	C31-C32-C33-C40
24	J	1107	LMT	C2'-C1'-O1'-C1
24	J	1107	LMT	O5'-C1'-O1'-C1
19	3	312	CLA	C1A-C2A-CAA-CBA
19	3	312	CLA	CHA-CBD-CGD-O1D
19	3	312	CLA	CHA-CBD-CGD-O2D
24	B	846	LMT	C2-C1-O1'-C1'
17	4	302	LUT	C21-C26-C27-C28
19	G	201	CLA	C1A-C2A-CAA-CBA
19	G	201	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
19	G	201	CLA	CHA-CBD-CGD-O2D
19	G	201	CLA	C2-C3-C5-C6
19	G	201	CLA	C4-C3-C5-C6
18	K	1005	BCR	C11-C10-C9-C8
18	K	1005	BCR	C11-C10-C9-C34
18	K	1005	BCR	C15-C16-C17-C18
18	K	1005	BCR	C19-C20-C21-C22
19	A	823	CLA	CBD-CGD-O2D-CED
19	B	823	CLA	C3A-C2A-CAA-CBA
19	L	305	CLA	C1A-C2A-CAA-CBA
19	G	203	CLA	CBA-CGA-O2A-C1
22	2	519	LMG	C2-C1-O1-C7
22	2	519	LMG	O6-C1-O1-C7
22	2	519	LMG	C8-C7-O1-C1
18	F	306	BCR	C17-C18-C19-C20
18	F	306	BCR	C36-C18-C19-C20
19	A	835	CLA	CHA-CBD-CGD-O1D
19	A	835	CLA	CHA-CBD-CGD-O2D
19	3	310	CLA	CBD-CGD-O2D-CED
19	B	828	CLA	C1A-C2A-CAA-CBA
19	B	828	CLA	C3A-C2A-CAA-CBA
19	B	828	CLA	C4-C3-C5-C6
19	B	822	CLA	C2-C1-O2A-CGA
19	B	822	CLA	CHA-CBD-CGD-O1D
19	B	822	CLA	O2A-C1-C2-C3
22	F	304	LMG	O9-C10-O7-C8
22	F	304	LMG	O10-C28-O8-C9
18	B	849	BCR	C11-C10-C9-C8
18	B	849	BCR	C11-C10-C9-C34
18	B	849	BCR	C23-C24-C25-C26
18	B	849	BCR	C23-C24-C25-C30
19	B	806	CLA	C3A-C2A-CAA-CBA
19	B	806	CLA	CHA-CBD-CGD-O1D
19	B	806	CLA	CHA-CBD-CGD-O2D
19	B	806	CLA	CAD-CBD-CGD-O1D
19	B	806	CLA	CAD-CBD-CGD-O2D
19	B	839	CLA	C1A-C2A-CAA-CBA
19	B	839	CLA	C3A-C2A-CAA-CBA
19	B	839	CLA	C2A-CAA-CBA-CGA
19	B	839	CLA	CBD-CGD-O2D-CED
19	B	839	CLA	C4-C3-C5-C6
19	B	840	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
19	B	840	CLA	CHA-CBD-CGD-O2D
19	4	308	CLA	CBD-CGD-O2D-CED
19	B	825	CLA	C1A-C2A-CAA-CBA
19	B	825	CLA	C3A-C2A-CAA-CBA
19	B	825	CLA	CHA-CBD-CGD-O1D
19	B	825	CLA	CHA-CBD-CGD-O2D
21	A	853	LHG	C4-O6-P-O4
21	B	842	LHG	O1-C1-C2-C3
21	B	842	LHG	C4-O6-P-O3
21	B	842	LHG	C4-O6-P-O4
21	B	842	LHG	C4-O6-P-O5
21	B	842	LHG	C8-C7-O7-C5
19	A	806	CLA	CBD-CGD-O2D-CED
18	L	306	BCR	C1-C6-C7-C8
18	L	306	BCR	C11-C10-C9-C8
18	L	306	BCR	C11-C10-C9-C34
18	L	306	BCR	C10-C11-C12-C13
18	L	306	BCR	C23-C24-C25-C30
18	B	856	BCR	C7-C8-C9-C10
18	B	856	BCR	C7-C8-C9-C34
18	B	856	BCR	C11-C10-C9-C8
18	B	856	BCR	C11-C10-C9-C34
18	B	856	BCR	C17-C18-C19-C20
18	B	856	BCR	C36-C18-C19-C20
18	B	856	BCR	C21-C22-C23-C24
18	B	856	BCR	C37-C22-C23-C24
22	G	206	LMG	O6-C1-O1-C7
19	B	819	CLA	CBD-CGD-O2D-CED
19	2	507	CLA	C3A-C2A-CAA-CBA
19	A	802	CLA	C2-C1-O2A-CGA
19	A	802	CLA	CHA-CBD-CGD-O1D
19	A	802	CLA	CHA-CBD-CGD-O2D
19	A	802	CLA	C2-C3-C5-C6
19	A	802	CLA	C4-C3-C5-C6
19	1	515	CLA	CHA-CBD-CGD-O1D
19	1	515	CLA	CHA-CBD-CGD-O2D
26	J	1106	DGD	O6E-C1E-O5D-C6D
22	2	518	LMG	O9-C10-O7-C8
22	2	518	LMG	C11-C10-O7-C8
18	G	205	BCR	C10-C11-C12-C13
18	3	303	BCR	C1-C6-C7-C8
18	3	303	BCR	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
18	3	303	BCR	C11-C10-C9-C8
18	3	303	BCR	C11-C10-C9-C34
18	3	303	BCR	C11-C12-C13-C35
18	3	303	BCR	C13-C14-C15-C16
18	3	303	BCR	C21-C22-C23-C24
18	3	303	BCR	C37-C22-C23-C24
19	4	312	CLA	C2-C1-O2A-CGA
26	G	207	DGD	O6E-C1E-O5D-C6D
19	2	505	CLA	C2-C3-C5-C6
19	2	505	CLA	C4-C3-C5-C6
19	2	505	CLA	C3-C5-C6-C7
19	1	509	CLA	CHA-CBD-CGD-O1D
19	1	509	CLA	CHA-CBD-CGD-O2D
19	2	509	CLA	C1A-C2A-CAA-CBA
19	2	509	CLA	CHA-CBD-CGD-O1D
19	2	509	CLA	CHA-CBD-CGD-O2D
18	A	852	BCR	C7-C8-C9-C10
18	A	852	BCR	C7-C8-C9-C34
18	A	852	BCR	C17-C18-C19-C20
18	A	852	BCR	C36-C18-C19-C20
18	A	852	BCR	C21-C22-C23-C24
18	A	852	BCR	C37-C22-C23-C24
19	A	828	CLA	O2A-C1-C2-C3
19	A	828	CLA	C6-C7-C8-C9
19	B	831	CLA	C1A-C2A-CAA-CBA
19	B	831	CLA	C3A-C2A-CAA-CBA
19	3	305	CLA	C1A-C2A-CAA-CBA
19	3	305	CLA	C3A-C2A-CAA-CBA
19	3	305	CLA	CHA-CBD-CGD-O1D
19	3	305	CLA	CHA-CBD-CGD-O2D
19	3	305	CLA	CBD-CGD-O2D-CED
24	G	208	LMT	C2-C1-O1'-C1'
19	A	815	CLA	C1A-C2A-CAA-CBA
19	A	815	CLA	CHA-CBD-CGD-O1D
19	A	815	CLA	CHA-CBD-CGD-O2D
22	A	847	LMG	C11-C10-O7-C8
22	J	1103	LMG	C11-C10-O7-C8
18	J	1108	BCR	C11-C12-C13-C14
18	J	1108	BCR	C11-C12-C13-C35
19	B	805	CLA	C1A-C2A-CAA-CBA
19	B	805	CLA	C3A-C2A-CAA-CBA
19	A	812	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
19	A	812	CLA	C3A-C2A-CAA-CBA
18	B	852	BCR	C11-C10-C9-C8
18	B	852	BCR	C11-C10-C9-C34
23	2	502	XAT	O4-C6-C7-C8
23	2	502	XAT	C7-C8-C9-C10
23	2	502	XAT	C7-C8-C9-C19
18	A	856	BCR	C1-C6-C7-C8
18	A	856	BCR	C5-C6-C7-C8
18	A	856	BCR	C11-C10-C9-C8
18	A	856	BCR	C11-C10-C9-C34
18	A	856	BCR	C10-C11-C12-C13
18	A	856	BCR	C11-C12-C13-C14
18	A	856	BCR	C11-C12-C13-C35
21	1	517	LHG	O1-C1-C2-C3
21	1	517	LHG	O2-C2-C3-O3
21	1	517	LHG	C3-O3-P-O4
19	4	304	CLA	C6-C7-C8-C9
19	B	804	CLA	CHA-CBD-CGD-O1D
19	B	804	CLA	CHA-CBD-CGD-O2D
19	B	804	CLA	CBD-CGD-O2D-CED
18	L	307	BCR	C11-C10-C9-C8
18	L	307	BCR	C11-C10-C9-C34
18	L	307	BCR	C17-C18-C19-C20
18	L	307	BCR	C36-C18-C19-C20
18	L	307	BCR	C21-C22-C23-C24
18	L	307	BCR	C37-C22-C23-C24
19	A	811	CLA	C1A-C2A-CAA-CBA
19	A	811	CLA	C3A-C2A-CAA-CBA
19	4	318	CLA	C2-C1-O2A-CGA
18	A	848	BCR	C11-C10-C9-C8
18	A	848	BCR	C11-C10-C9-C34
19	1	506	CLA	C1A-C2A-CAA-CBA
19	G	204	CLA	C2-C1-O2A-CGA
20	4	316	CHL	C1A-C2A-CAA-CBA
20	4	316	CHL	C3A-C2A-CAA-CBA
20	4	316	CHL	C2-C3-C5-C6
20	4	316	CHL	C4-C3-C5-C6
19	F	302	CLA	C2-C1-O2A-CGA
19	B	810	CLA	C2-C1-O2A-CGA
19	B	810	CLA	CBD-CGD-O2D-CED
22	B	844	LMG	O9-C10-O7-C8
18	3	304	BCR	C1-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
18	3	304	BCR	C5-C6-C7-C8
18	3	304	BCR	C11-C10-C9-C8
18	3	304	BCR	C11-C10-C9-C34
18	3	304	BCR	C10-C11-C12-C13
19	A	817	CLA	CBD-CGD-O2D-CED
19	B	812	CLA	CBD-CGD-O2D-CED
18	I	101	BCR	C1-C6-C7-C8
18	I	101	BCR	C5-C6-C7-C8
18	I	101	BCR	C11-C10-C9-C8
18	I	101	BCR	C11-C10-C9-C34
18	I	101	BCR	C10-C11-C12-C13
18	I	101	BCR	C17-C18-C19-C20
18	I	101	BCR	C36-C18-C19-C20
19	B	807	CLA	CBD-CGD-O2D-CED
19	B	807	CLA	C6-C7-C8-C9
19	1	510	CLA	C1A-C2A-CAA-CBA
19	1	510	CLA	C3A-C2A-CAA-CBA
19	1	510	CLA	CBA-CGA-O2A-C1
19	1	510	CLA	CBD-CGD-O2D-CED
19	B	818	CLA	C2-C1-O2A-CGA
21	1	520	LHG	O1-C1-C2-O2
21	1	520	LHG	O1-C1-C2-C3
21	1	520	LHG	O9-C7-O7-C5
21	1	520	LHG	C8-C7-O7-C5
19	A	809	CLA	CBD-CGD-O2D-CED
19	A	824	CLA	CHA-CBD-CGD-O1D
19	A	824	CLA	CHA-CBD-CGD-O2D
19	A	824	CLA	C2-C3-C5-C6
19	A	824	CLA	C4-C3-C5-C6
20	3	314	CHL	C1A-C2A-CAA-CBA
20	3	314	CHL	C3A-C2A-CAA-CBA
22	G	210	LMG	C11-C10-O7-C8
19	1	511	CLA	CAD-CBD-CGD-O2D
24	2	523	LMT	O5'-C1'-O1'-C1
19	K	1001	CLA	CHA-CBD-CGD-O1D
19	K	1001	CLA	CHA-CBD-CGD-O2D
19	K	1001	CLA	CAD-CBD-CGD-O1D
19	K	1001	CLA	CBD-CGD-O2D-CED
19	B	809	CLA	CBD-CGD-O2D-CED
19	A	807	CLA	C2-C1-O2A-CGA
20	2	526	CHL	C4-C3-C5-C6
19	J	1105	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
19	J	1105	CLA	C2-C1-O2A-CGA
24	A	846	LMT	C2-C1-O1'-C1'
17	J	1109	LUT	C21-C26-C27-C28
17	J	1109	LUT	C27-C28-C29-C30
17	J	1109	LUT	C27-C28-C29-C39
18	A	850	BCR	C21-C22-C23-C24
18	A	850	BCR	C37-C22-C23-C24
30	F	301	ZEX	C25-C26-C27-C28
19	B	827	CLA	C1A-C2A-CAA-CBA
19	B	827	CLA	C3A-C2A-CAA-CBA
19	B	832	CLA	C2-C3-C5-C6
19	B	832	CLA	C4-C3-C5-C6
19	L	303	CLA	C1A-C2A-CAA-CBA
19	L	303	CLA	C2-C1-O2A-CGA
21	B	843	LHG	O1-C1-C2-C3
21	B	843	LHG	C1-C2-C3-O3
21	B	843	LHG	C3-O3-P-O4
21	B	843	LHG	C8-C7-O7-C5
19	B	829	CLA	CHA-CBD-CGD-O1D
19	B	829	CLA	CHA-CBD-CGD-O2D
19	B	829	CLA	CAD-CBD-CGD-O1D
18	A	851	BCR	C11-C10-C9-C8
18	A	851	BCR	C11-C10-C9-C34
18	A	851	BCR	C10-C11-C12-C13
18	A	851	BCR	C13-C14-C15-C16
18	A	851	BCR	C15-C16-C17-C18
18	A	851	BCR	C17-C18-C19-C20
18	A	851	BCR	C36-C18-C19-C20
18	A	851	BCR	C23-C24-C25-C30
19	2	514	CLA	C2-C1-O2A-CGA
18	B	853	BCR	C11-C10-C9-C8
18	B	853	BCR	C11-C10-C9-C34
18	B	853	BCR	C10-C11-C12-C13
18	B	853	BCR	C11-C12-C13-C14
18	B	853	BCR	C11-C12-C13-C35
18	B	853	BCR	C21-C22-C23-C24
18	B	853	BCR	C37-C22-C23-C24
19	4	311	CLA	CHA-CBD-CGD-O1D
19	4	311	CLA	CHA-CBD-CGD-O2D
19	2	511	CLA	C1A-C2A-CAA-CBA
17	3	301	LUT	C1-C6-C7-C8
19	3	307	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
19	3	307	CLA	CHA-CBD-CGD-O2D
19	3	307	CLA	CBD-CGD-O2D-CED
19	3	307	CLA	C2-C3-C5-C6
19	3	307	CLA	C4-C3-C5-C6
19	A	818	CLA	C3A-C2A-CAA-CBA
19	A	818	CLA	C2-C3-C5-C6
19	A	818	CLA	C4-C3-C5-C6
19	B	811	CLA	CBD-CGD-O2D-CED
19	3	317	CLA	CBA-CGA-O2A-C1
19	2	504	CLA	C3A-C2A-CAA-CBA
22	J	1104	LMG	C11-C10-O7-C8
19	1	505	CLA	C1A-C2A-CAA-CBA
19	1	505	CLA	C3A-C2A-CAA-CBA
19	1	505	CLA	CBA-CGA-O2A-C1
19	1	505	CLA	CBD-CGD-O2D-CED
21	B	842	LHG	O9-C7-O7-C5
19	B	834	CLA	O1D-CGD-O2D-CED
19	3	311	CLA	O1D-CGD-O2D-CED
19	1	511	CLA	O1D-CGD-O2D-CED
19	J	1105	CLA	C4C-C3C-CAC-CBC
19	3	308	CLA	O1D-CGD-O2D-CED
19	1	515	CLA	O1D-CGD-O2D-CED
19	1	509	CLA	O1D-CGD-O2D-CED
19	2	509	CLA	O1D-CGD-O2D-CED
19	A	828	CLA	O1D-CGD-O2D-CED
19	3	305	CLA	O1D-CGD-O2D-CED
19	B	804	CLA	O1D-CGD-O2D-CED
19	1	506	CLA	O1D-CGD-O2D-CED
19	3	307	CLA	O1D-CGD-O2D-CED
19	3	306	CLA	CBD-CGD-O2D-CED
19	A	832	CLA	CBD-CGD-O2D-CED
19	A	804	CLA	CBD-CGD-O2D-CED
19	J	1102	CLA	CBD-CGD-O2D-CED
19	K	1002	CLA	CBD-CGD-O2D-CED
19	2	510	CLA	CBD-CGD-O2D-CED
19	3	316	CLA	CBD-CGD-O2D-CED
19	B	816	CLA	CBD-CGD-O2D-CED
19	4	305	CLA	CBD-CGD-O2D-CED
19	3	312	CLA	CBD-CGD-O2D-CED
19	4	310	CLA	CBD-CGD-O2D-CED
19	4	315	CLA	CBD-CGD-O2D-CED
19	L	305	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
19	A	822	CLA	CBD-CGD-O2D-CED
19	G	203	CLA	CBD-CGD-O2D-CED
19	B	822	CLA	CBD-CGD-O2D-CED
19	L	301	CLA	CBD-CGD-O2D-CED
19	3	311	CLA	CBD-CGD-O2D-CED
19	G	202	CLA	CBD-CGD-O2D-CED
19	1	504	CLA	CBD-CGD-O2D-CED
19	3	309	CLA	CBD-CGD-O2D-CED
19	J	1101	CLA	CBD-CGD-O2D-CED
19	1	515	CLA	CBD-CGD-O2D-CED
19	A	834	CLA	CBD-CGD-O2D-CED
19	2	505	CLA	CBD-CGD-O2D-CED
19	1	509	CLA	CBD-CGD-O2D-CED
19	2	509	CLA	CBD-CGD-O2D-CED
19	A	828	CLA	CBD-CGD-O2D-CED
19	1	513	CLA	CBD-CGD-O2D-CED
19	A	815	CLA	CBD-CGD-O2D-CED
19	1	507	CLA	CBD-CGD-O2D-CED
19	4	304	CLA	CBD-CGD-O2D-CED
19	A	811	CLA	CBD-CGD-O2D-CED
19	1	506	CLA	CBD-CGD-O2D-CED
19	G	204	CLA	CBD-CGD-O2D-CED
19	A	820	CLA	CBD-CGD-O2D-CED
19	A	816	CLA	CBD-CGD-O2D-CED
19	2	506	CLA	CBD-CGD-O2D-CED
19	1	511	CLA	CBD-CGD-O2D-CED
19	A	807	CLA	CBD-CGD-O2D-CED
19	B	827	CLA	CBD-CGD-O2D-CED
19	A	818	CLA	CBD-CGD-O2D-CED
19	A	831	CLA	CBD-CGD-O2D-CED
19	H	1000	CLA	CBD-CGD-O2D-CED
19	2	510	CLA	O1A-CGA-O2A-C1
19	4	306	CLA	O1A-CGA-O2A-C1
19	L	301	CLA	O1A-CGA-O2A-C1
19	1	509	CLA	O1A-CGA-O2A-C1
21	1	520	LHG	O10-C23-O8-C6
19	A	824	CLA	O1A-CGA-O2A-C1
22	G	210	LMG	O10-C28-O8-C9
19	3	307	CLA	O1A-CGA-O2A-C1
19	G	203	CLA	O1A-CGA-O2A-C1
19	A	816	CLA	O1A-CGA-O2A-C1
19	1	510	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
19	1	511	CLA	O1A-CGA-O2A-C1
19	1	505	CLA	O1A-CGA-O2A-C1
19	J	1105	CLA	C2C-C3C-CAC-CBC
24	G	209	LMT	C4B-C5B-C6B-O6B
19	3	306	CLA	O1D-CGD-O2D-CED
19	3	312	CLA	O1D-CGD-O2D-CED
19	A	822	CLA	O1D-CGD-O2D-CED
19	3	310	CLA	O1D-CGD-O2D-CED
19	B	822	CLA	O1D-CGD-O2D-CED
19	A	806	CLA	O1D-CGD-O2D-CED
19	1	513	CLA	O1D-CGD-O2D-CED
19	B	810	CLA	O1D-CGD-O2D-CED
19	A	816	CLA	O1D-CGD-O2D-CED
19	B	834	CLA	C5-C6-C7-C8
19	A	816	CLA	CBA-CGA-O2A-C1
19	1	511	CLA	CBA-CGA-O2A-C1
26	B	801	DGD	C2G-C1G-O1G-C1A
24	B	846	LMT	O5B-C1B-O1B-C4'
19	A	840	CLA	O1D-CGD-O2D-CED
19	4	306	CLA	O1D-CGD-O2D-CED
19	A	823	CLA	O1D-CGD-O2D-CED
19	G	203	CLA	O1D-CGD-O2D-CED
19	B	839	CLA	O1D-CGD-O2D-CED
19	4	308	CLA	O1D-CGD-O2D-CED
19	A	817	CLA	O1D-CGD-O2D-CED
19	B	812	CLA	O1D-CGD-O2D-CED
19	B	807	CLA	O1D-CGD-O2D-CED
19	A	809	CLA	O1D-CGD-O2D-CED
19	K	1001	CLA	O1D-CGD-O2D-CED
19	B	827	CLA	O1D-CGD-O2D-CED
19	A	818	CLA	O1D-CGD-O2D-CED
19	B	811	CLA	O1D-CGD-O2D-CED
19	H	1000	CLA	O1D-CGD-O2D-CED
19	2	510	CLA	CBA-CGA-O2A-C1
19	B	830	CLA	CBA-CGA-O2A-C1
19	4	306	CLA	CBA-CGA-O2A-C1
19	4	305	CLA	CBA-CGA-O2A-C1
19	3	309	CLA	CBA-CGA-O2A-C1
19	1	509	CLA	CBA-CGA-O2A-C1
21	1	520	LHG	C24-C23-O8-C6
19	A	824	CLA	CBA-CGA-O2A-C1
19	2	506	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
19	3	307	CLA	CBA-CGA-O2A-C1
19	A	805	CLA	CBD-CGD-O2D-CED
19	3	313	CLA	CBD-CGD-O2D-CED
19	A	833	CLA	CBD-CGD-O2D-CED
19	1	508	CLA	CBD-CGD-O2D-CED
19	B	806	CLA	CBD-CGD-O2D-CED
19	A	814	CLA	CBD-CGD-O2D-CED
19	A	855	CLA	CBD-CGD-O2D-CED
19	B	838	CLA	CBD-CGD-O2D-CED
19	B	813	CLA	CBD-CGD-O2D-CED
19	F	303	CLA	CBD-CGD-O2D-CED
19	A	836	CLA	CBD-CGD-O2D-CED
19	B	818	CLA	CBD-CGD-O2D-CED
19	A	819	CLA	CBD-CGD-O2D-CED
19	J	1105	CLA	CBD-CGD-O2D-CED
19	B	814	CLA	CBD-CGD-O2D-CED
19	4	311	CLA	CBD-CGD-O2D-CED
19	2	511	CLA	CBD-CGD-O2D-CED
19	B	835	CLA	CBD-CGD-O2D-CED
19	3	317	CLA	CBD-CGD-O2D-CED
19	4	307	CLA	CBD-CGD-O2D-CED
19	3	306	CLA	O1A-CGA-O2A-C1
19	B	830	CLA	O1A-CGA-O2A-C1
19	3	315	CLA	O1A-CGA-O2A-C1
22	4	322	LMG	O10-C28-O8-C9
19	4	305	CLA	O1A-CGA-O2A-C1
19	4	310	CLA	O1A-CGA-O2A-C1
19	4	315	CLA	O1A-CGA-O2A-C1
19	B	822	CLA	O1A-CGA-O2A-C1
19	G	202	CLA	O1A-CGA-O2A-C1
19	B	825	CLA	O1A-CGA-O2A-C1
19	A	855	CLA	O1A-CGA-O2A-C1
19	3	309	CLA	O1A-CGA-O2A-C1
19	F	303	CLA	O1A-CGA-O2A-C1
19	B	818	CLA	O1A-CGA-O2A-C1
19	2	506	CLA	O1A-CGA-O2A-C1
19	L	303	CLA	O1A-CGA-O2A-C1
22	1	518	LMG	O10-C28-O8-C9
19	A	831	CLA	O1A-CGA-O2A-C1
19	A	842	CLA	O1D-CGD-O2D-CED
19	B	819	CLA	O1D-CGD-O2D-CED
19	1	510	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
19	1	516	CLA	O1D-CGD-O2D-CED
19	3	315	CLA	O1D-CGD-O2D-CED
19	1	505	CLA	O1D-CGD-O2D-CED
24	B	846	LMT	C2B-C1B-O1B-C4'
19	A	810	CLA	CBD-CGD-O2D-CED
19	B	833	CLA	CBD-CGD-O2D-CED
19	A	830	CLA	CBD-CGD-O2D-CED
19	B	805	CLA	CBD-CGD-O2D-CED
19	A	812	CLA	CBD-CGD-O2D-CED
19	3	316	CLA	O1D-CGD-O2D-CED
19	A	820	CLA	O1D-CGD-O2D-CED
19	2	506	CLA	O1D-CGD-O2D-CED
19	B	809	CLA	O1D-CGD-O2D-CED
22	4	322	LMG	O9-C10-O7-C8
22	A	847	LMG	O9-C10-O7-C8
22	J	1103	LMG	O9-C10-O7-C8
22	1	518	LMG	O9-C10-O7-C8
22	J	1104	LMG	O9-C10-O7-C8
24	G	209	LMT	C4'-C5'-C6'-O6'
22	G	206	LMG	O10-C28-O8-C9
19	B	808	CLA	C3-C5-C6-C7
19	A	804	CLA	C3-C5-C6-C7
19	2	508	CLA	C3-C5-C6-C7
19	A	827	CLA	C3-C5-C6-C7
19	1	508	CLA	C3-C5-C6-C7
19	B	823	CLA	C3-C5-C6-C7
19	A	814	CLA	C3-C5-C6-C7
19	A	806	CLA	C3-C5-C6-C7
19	3	309	CLA	C3-C5-C6-C7
19	3	305	CLA	C3-C5-C6-C7
19	A	812	CLA	C3-C5-C6-C7
19	A	818	CLA	C3-C5-C6-C7
19	B	811	CLA	C3-C5-C6-C7
19	A	831	CLA	C3-C5-C6-C7
19	2	504	CLA	C3-C5-C6-C7
19	3	306	CLA	CBA-CGA-O2A-C1
19	B	815	CLA	CBA-CGA-O2A-C1
19	3	315	CLA	CBA-CGA-O2A-C1
22	4	322	LMG	C29-C28-O8-C9
19	4	310	CLA	CBA-CGA-O2A-C1
19	A	823	CLA	CBA-CGA-O2A-C1
22	2	519	LMG	C29-C28-O8-C9

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Mol	Chain	Res	Type	Atoms
19	L	301	CLA	CBA-CGA-O2A-C1
22	F	304	LMG	C29-C28-O8-C9
19	B	825	CLA	CBA-CGA-O2A-C1
19	A	855	CLA	CBA-CGA-O2A-C1
19	4	312	CLA	CBA-CGA-O2A-C1
22	A	847	LMG	C29-C28-O8-C9
19	F	303	CLA	CBA-CGA-O2A-C1
19	B	818	CLA	CBA-CGA-O2A-C1
22	G	210	LMG	C29-C28-O8-C9
19	L	303	CLA	CBA-CGA-O2A-C1
22	1	518	LMG	C29-C28-O8-C9
19	A	831	CLA	CBA-CGA-O2A-C1
22	F	304	LMG	C11-C10-O7-C8
22	B	844	LMG	C11-C10-O7-C8
22	1	518	LMG	C11-C10-O7-C8
19	4	315	CLA	O1D-CGD-O2D-CED
19	A	815	CLA	O1D-CGD-O2D-CED
19	A	808	CLA	CBD-CGD-O2D-CED
19	A	802	CLA	CBD-CGD-O2D-CED
19	A	828	CLA	O1A-CGA-O2A-C1
19	B	824	CLA	C4-C3-C5-C6
19	B	808	CLA	C4-C3-C5-C6
19	A	826	CLA	C4-C3-C5-C6
19	F	303	CLA	C4-C3-C5-C6
19	A	809	CLA	C4-C3-C5-C6
19	A	809	CLA	C2-C3-C5-C6
20	2	526	CHL	C2-C3-C5-C6
19	2	508	CLA	CBD-CGD-O2D-CED
19	B	817	CLA	CBD-CGD-O2D-CED
19	B	840	CLA	CBD-CGD-O2D-CED
19	A	808	CLA	C2A-CAA-CBA-CGA
19	1	516	CLA	C2A-CAA-CBA-CGA
20	1	512	CHL	C2A-CAA-CBA-CGA
19	3	313	CLA	C2A-CAA-CBA-CGA
19	A	835	CLA	C2A-CAA-CBA-CGA
19	3	310	CLA	C2A-CAA-CBA-CGA
19	B	828	CLA	C2A-CAA-CBA-CGA
20	2	512	CHL	C2A-CAA-CBA-CGA
19	2	506	CLA	C2A-CAA-CBA-CGA
20	3	314	CHL	C2A-CAA-CBA-CGA
19	2	511	CLA	C2A-CAA-CBA-CGA
26	B	854	DGD	C8A-C9A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	G	206	LMG	C17-C18-C19-C20
22	G	206	LMG	C35-C36-C37-C38
22	A	847	LMG	C17-C18-C19-C20
19	A	805	CLA	C3-C5-C6-C7
19	2	510	CLA	C3-C5-C6-C7
19	A	823	CLA	C3-C5-C6-C7
19	B	810	CLA	C3-C5-C6-C7
19	B	829	CLA	C3-C5-C6-C7
19	B	835	CLA	C3-C5-C6-C7
19	B	834	CLA	CBA-CGA-O2A-C1
19	B	808	CLA	CBA-CGA-O2A-C1
19	4	315	CLA	CBA-CGA-O2A-C1
19	L	305	CLA	CBA-CGA-O2A-C1
19	B	822	CLA	CBA-CGA-O2A-C1
19	4	308	CLA	CBA-CGA-O2A-C1
19	G	202	CLA	CBA-CGA-O2A-C1
19	A	806	CLA	CBA-CGA-O2A-C1
22	G	206	LMG	C29-C28-O8-C9
26	G	207	DGD	C2A-C1A-O1G-C1G
19	4	318	CLA	CBA-CGA-O2A-C1
19	B	810	CLA	CBA-CGA-O2A-C1
19	B	812	CLA	CBA-CGA-O2A-C1
19	B	832	CLA	CBA-CGA-O2A-C1
19	2	514	CLA	CBA-CGA-O2A-C1
24	G	209	LMT	O5'-C5'-C6'-O6'
26	B	801	DGD	O6D-C5D-C6D-O5D
19	2	510	CLA	O1D-CGD-O2D-CED
19	4	305	CLA	O1D-CGD-O2D-CED
19	B	830	CLA	CBD-CGD-O2D-CED
19	2	507	CLA	CBD-CGD-O2D-CED
19	B	816	CLA	O1D-CGD-O2D-CED
19	L	301	CLA	O1D-CGD-O2D-CED
22	G	210	LMG	O9-C10-O7-C8
21	B	843	LHG	O9-C7-O7-C5
19	B	808	CLA	O1A-CGA-O2A-C1
19	3	313	CLA	O1A-CGA-O2A-C1
19	A	823	CLA	O1A-CGA-O2A-C1
22	2	519	LMG	O10-C28-O8-C9
19	4	312	CLA	O1A-CGA-O2A-C1
26	G	207	DGD	O1A-C1A-O1G-C1G
22	A	847	LMG	O10-C28-O8-C9
19	4	318	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
19	G	204	CLA	O1A-CGA-O2A-C1
19	B	810	CLA	O1A-CGA-O2A-C1
19	B	812	CLA	O1A-CGA-O2A-C1
19	J	1105	CLA	O1A-CGA-O2A-C1
19	2	514	CLA	O1A-CGA-O2A-C1
19	3	317	CLA	O1A-CGA-O2A-C1
19	J	1102	CLA	O1D-CGD-O2D-CED
17	1	502	LUT	C29-C30-C31-C32
18	3	303	BCR	C9-C10-C11-C12
18	B	852	BCR	C19-C20-C21-C22
18	A	848	BCR	C13-C14-C15-C16
24	A	846	LMT	O5B-C1B-O1B-C4'
24	A	846	LMT	C2B-C1B-O1B-C4'
24	J	1107	LMT	C4B-C5B-C6B-O6B
24	2	523	LMT	C4B-C5B-C6B-O6B
24	A	846	LMT	C4B-C5B-C6B-O6B
19	A	839	CLA	CBD-CGD-O2D-CED
19	G	201	CLA	CBD-CGD-O2D-CED
19	B	836	CLA	CBD-CGD-O2D-CED
19	B	821	CLA	CBD-CGD-O2D-CED
19	4	318	CLA	CBD-CGD-O2D-CED
19	A	803	CLA	CBD-CGD-O2D-CED
19	2	504	CLA	CBD-CGD-O2D-CED
19	A	829	CLA	CBD-CGD-O2D-CED
19	K	1002	CLA	O1D-CGD-O2D-CED
19	4	304	CLA	O1D-CGD-O2D-CED
19	A	807	CLA	O1D-CGD-O2D-CED
19	A	831	CLA	O1D-CGD-O2D-CED
21	B	843	LHG	O2-C2-C3-O3
19	B	809	CLA	C3-C5-C6-C7
19	A	810	CLA	CBA-CGA-O2A-C1
22	B	845	LMG	C29-C28-O8-C9
19	B	823	CLA	CBA-CGA-O2A-C1
26	J	1106	DGD	C2A-C1A-O1G-C1G
19	A	828	CLA	CBA-CGA-O2A-C1
22	B	844	LMG	C29-C28-O8-C9
19	J	1105	CLA	CBA-CGA-O2A-C1
19	A	818	CLA	CBA-CGA-O2A-C1
19	B	815	CLA	O1A-CGA-O2A-C1
19	B	834	CLA	O1A-CGA-O2A-C1
19	L	305	CLA	O1A-CGA-O2A-C1
19	4	308	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	B	844	LMG	O10-C28-O8-C9
19	B	832	CLA	O1A-CGA-O2A-C1
26	B	801	DGD	O6E-C5E-C6E-O5E
24	G	209	LMT	O5B-C5B-C6B-O6B
24	B	846	LMT	O5B-C5B-C6B-O6B
22	2	519	LMG	O6-C5-C6-O5
24	G	208	LMT	O5B-C5B-C6B-O6B
19	A	832	CLA	O1D-CGD-O2D-CED
19	4	310	CLA	O1D-CGD-O2D-CED
19	2	505	CLA	O1D-CGD-O2D-CED
19	A	811	CLA	O1D-CGD-O2D-CED
22	F	305	LMG	C11-C10-O7-C8
22	G	206	LMG	C11-C10-O7-C8
26	G	207	DGD	C2B-C1B-O2G-C2G
21	1	517	LHG	C8-C7-O7-C5
19	L	304	CLA	CBD-CGD-O2D-CED
19	A	827	CLA	CBD-CGD-O2D-CED
19	B	831	CLA	CBD-CGD-O2D-CED
19	A	841	CLA	CBD-CGD-O2D-CED
24	J	1107	LMT	O5B-C5B-C6B-O6B
26	4	319	DGD	C2A-C3A-C4A-C5A
21	1	520	LHG	C13-C14-C15-C16
24	A	846	LMT	O5'-C5'-C6'-O6'
24	B	846	LMT	C4B-C5B-C6B-O6B
19	G	204	CLA	O1D-CGD-O2D-CED
19	B	832	CLA	CBD-CGD-O2D-CED
19	L	303	CLA	CBD-CGD-O2D-CED
19	3	313	CLA	CBA-CGA-O2A-C1
19	G	204	CLA	CBA-CGA-O2A-C1
19	G	202	CLA	O1D-CGD-O2D-CED
19	A	834	CLA	O1D-CGD-O2D-CED
24	A	846	LMT	O5B-C5B-C6B-O6B
19	3	305	CLA	C2C-C3C-CAC-CBC
21	B	843	LHG	C2-C3-O3-P
19	A	810	CLA	O1A-CGA-O2A-C1
19	B	823	CLA	O1A-CGA-O2A-C1
19	A	806	CLA	O1A-CGA-O2A-C1
26	J	1106	DGD	O1A-C1A-O1G-C1G
19	3	306	CLA	C3-C5-C6-C7
19	3	308	CLA	C4-C3-C5-C6
19	K	1002	CLA	C4-C3-C5-C6
19	1	508	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
19	B	819	CLA	C4-C3-C5-C6
19	A	834	CLA	C4-C3-C5-C6
19	A	811	CLA	C4-C3-C5-C6
19	A	817	CLA	C4-C3-C5-C6
19	H	1000	CLA	C4-C3-C5-C6
26	B	801	DGD	C4E-C5E-C6E-O5E
19	3	308	CLA	C2-C3-C5-C6
19	A	838	CLA	C2-C3-C5-C6
19	K	1002	CLA	C2-C3-C5-C6
19	1	508	CLA	C2-C3-C5-C6
19	B	828	CLA	C2-C3-C5-C6
19	B	839	CLA	C2-C3-C5-C6
19	A	834	CLA	C2-C3-C5-C6
19	A	811	CLA	C2-C3-C5-C6
19	A	817	CLA	C2-C3-C5-C6
19	H	1000	CLA	C2-C3-C5-C6
19	B	818	CLA	C2A-CAA-CBA-CGA
19	3	307	CLA	C2A-CAA-CBA-CGA
19	1	507	CLA	O1D-CGD-O2D-CED
19	4	311	CLA	O1D-CGD-O2D-CED
22	G	206	LMG	O6-C5-C6-O5
24	G	209	LMT	O5'-C1'-O1'-C1
19	1	504	CLA	O1D-CGD-O2D-CED
19	A	835	CLA	CBA-CGA-O2A-C1
19	A	814	CLA	CBA-CGA-O2A-C1
19	2	511	CLA	CBA-CGA-O2A-C1
19	A	804	CLA	O1D-CGD-O2D-CED
19	J	1101	CLA	O1D-CGD-O2D-CED
24	2	523	LMT	O5B-C5B-C6B-O6B
19	A	805	CLA	O1D-CGD-O2D-CED
19	3	313	CLA	O1D-CGD-O2D-CED
19	A	833	CLA	O1D-CGD-O2D-CED
19	L	305	CLA	O1D-CGD-O2D-CED
19	A	855	CLA	O1D-CGD-O2D-CED
19	3	309	CLA	O1D-CGD-O2D-CED
19	A	819	CLA	O1D-CGD-O2D-CED
19	3	317	CLA	O1D-CGD-O2D-CED
22	B	845	LMG	O10-C28-O8-C9
19	A	835	CLA	O1A-CGA-O2A-C1
19	2	511	CLA	O1A-CGA-O2A-C1
19	A	818	CLA	O1A-CGA-O2A-C1
19	1	508	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
19	B	813	CLA	O1D-CGD-O2D-CED
19	F	303	CLA	O1D-CGD-O2D-CED
19	2	511	CLA	O1D-CGD-O2D-CED
21	2	517	LHG	C1-C2-C3-O3
22	G	206	LMG	O9-C10-O7-C8
26	G	207	DGD	O1B-C1B-O2G-C2G
19	A	835	CLA	C3-C5-C6-C7
19	F	303	CLA	C3-C5-C6-C7
19	3	308	CLA	CBA-CGA-O2A-C1
19	4	309	CLA	CBA-CGA-O2A-C1
19	K	1002	CLA	CBA-CGA-O2A-C1
19	A	842	CLA	CBA-CGA-O2A-C1
19	B	837	CLA	CBA-CGA-O2A-C1
19	A	822	CLA	CBA-CGA-O2A-C1
19	3	310	CLA	CBA-CGA-O2A-C1
19	B	806	CLA	CBA-CGA-O2A-C1
19	B	840	CLA	CBA-CGA-O2A-C1
19	A	826	CLA	CBA-CGA-O2A-C1
26	4	319	DGD	C2A-C1A-O1G-C1G
19	2	507	CLA	CBA-CGA-O2A-C1
19	A	802	CLA	CBA-CGA-O2A-C1
19	2	505	CLA	CBA-CGA-O2A-C1
19	A	820	CLA	CBA-CGA-O2A-C1
19	A	817	CLA	CBA-CGA-O2A-C1
19	A	836	CLA	CBA-CGA-O2A-C1
19	A	809	CLA	CBA-CGA-O2A-C1
19	A	807	CLA	CBA-CGA-O2A-C1
19	B	829	CLA	CBA-CGA-O2A-C1
19	A	821	CLA	CBD-CGD-O2D-CED
19	B	820	CLA	CBD-CGD-O2D-CED
19	A	826	CLA	CBD-CGD-O2D-CED
19	K	1001	CLA	C2A-CAA-CBA-CGA
18	L	307	BCR	C13-C14-C15-C16
17	1	501	LUT	C29-C30-C31-C32
22	4	322	LMG	C29-C30-C31-C32
19	B	812	CLA	C10-C11-C12-C13
19	A	807	CLA	C8-C10-C11-C12
24	G	208	LMT	C4B-C5B-C6B-O6B
24	G	209	LMT	C5'-C4'-O1B-C1B
22	4	322	LMG	C14-C15-C16-C17
22	G	206	LMG	C4-C5-C6-O5
19	B	830	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
19	4	310	CLA	C8-C10-C11-C12
19	B	828	CLA	C15-C16-C17-C18
19	B	806	CLA	C15-C16-C17-C18
19	1	507	CLA	C15-C16-C17-C18
19	B	804	CLA	C13-C15-C16-C17
19	A	831	CLA	C15-C16-C17-C18
19	4	307	CLA	C10-C11-C12-C13
19	3	316	CLA	CBA-CGA-O2A-C1
21	2	517	LHG	O2-C2-C3-O3
22	A	847	LMG	C10-C11-C12-C13
26	B	801	DGD	C2D-C1D-O3G-C3G
24	G	209	LMT	C2'-C1'-O1'-C1
22	4	322	LMG	C2-C1-O1-C7
19	3	308	CLA	O1A-CGA-O2A-C1
19	A	855	CLA	C4-C3-C5-C6
22	2	519	LMG	C4-C5-C6-O5
19	B	824	CLA	C2-C3-C5-C6
19	B	808	CLA	C2-C3-C5-C6
19	A	855	CLA	C2-C3-C5-C6
19	F	303	CLA	C2-C3-C5-C6
19	3	308	CLA	C11-C12-C13-C14
19	A	832	CLA	C11-C12-C13-C14
19	A	805	CLA	C14-C13-C15-C16
19	A	804	CLA	C11-C10-C8-C9
19	B	820	CLA	C11-C12-C13-C14
19	B	820	CLA	C14-C13-C15-C16
19	3	313	CLA	C11-C10-C8-C9
19	1	508	CLA	C14-C13-C15-C16
19	4	315	CLA	C14-C13-C15-C16
19	B	839	CLA	C11-C10-C8-C9
19	A	814	CLA	C14-C13-C15-C16
19	B	825	CLA	C6-C7-C8-C9
19	B	825	CLA	C14-C13-C15-C16
19	1	504	CLA	C11-C10-C8-C9
19	A	802	CLA	C11-C10-C8-C9
19	A	828	CLA	C14-C13-C15-C16
19	B	831	CLA	C11-C10-C8-C9
19	F	303	CLA	C11-C12-C13-C14
19	1	507	CLA	C14-C13-C15-C16
19	B	804	CLA	C14-C13-C15-C16
19	4	318	CLA	C14-C13-C15-C16
19	B	810	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
19	A	817	CLA	C14-C13-C15-C16
19	B	812	CLA	C11-C10-C8-C9
19	B	818	CLA	C11-C10-C8-C9
19	B	818	CLA	C11-C12-C13-C14
19	A	809	CLA	C6-C7-C8-C9
19	B	829	CLA	C11-C12-C13-C14
19	B	811	CLA	C11-C10-C8-C9
19	B	806	CLA	O1D-CGD-O2D-CED
19	B	818	CLA	O1D-CGD-O2D-CED
19	J	1105	CLA	O1D-CGD-O2D-CED
19	B	814	CLA	O1D-CGD-O2D-CED
19	4	307	CLA	O1D-CGD-O2D-CED
19	4	308	CLA	C8-C10-C11-C12
19	B	805	CLA	C15-C16-C17-C18
19	A	821	CLA	C2A-CAA-CBA-CGA
19	B	805	CLA	C2A-CAA-CBA-CGA
18	4	301	BCR	C11-C12-C13-C35
18	K	1005	BCR	C37-C22-C23-C24
18	G	205	BCR	C11-C12-C13-C35
18	B	852	BCR	C11-C12-C13-C35
18	A	856	BCR	C7-C8-C9-C34
18	A	856	BCR	C37-C22-C23-C24
18	L	307	BCR	C11-C12-C13-C35
18	3	304	BCR	C37-C22-C23-C24
18	B	851	BCR	C7-C8-C9-C34
18	4	301	BCR	C11-C12-C13-C14
18	K	1005	BCR	C21-C22-C23-C24
18	B	852	BCR	C11-C12-C13-C14
18	A	856	BCR	C21-C22-C23-C24
18	3	304	BCR	C21-C22-C23-C24
18	B	851	BCR	C7-C8-C9-C10
22	F	305	LMG	O9-C10-O7-C8
22	2	519	LMG	C11-C10-O7-C8
26	B	801	DGD	C1A-C2A-C3A-C4A
22	J	1104	LMG	C28-C29-C30-C31
19	A	842	CLA	O1A-CGA-O2A-C1
19	B	806	CLA	O1A-CGA-O2A-C1
19	B	840	CLA	O1A-CGA-O2A-C1
19	A	826	CLA	O1A-CGA-O2A-C1
19	A	802	CLA	O1A-CGA-O2A-C1
19	2	505	CLA	O1A-CGA-O2A-C1
19	A	820	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
19	B	829	CLA	O1A-CGA-O2A-C1
19	A	838	CLA	C13-C15-C16-C17
19	A	821	CLA	C10-C11-C12-C13
19	A	804	CLA	C13-C15-C16-C17
19	A	830	CLA	C5-C6-C7-C8
19	2	510	CLA	C5-C6-C7-C8
19	B	825	CLA	C15-C16-C17-C18
19	1	504	CLA	C8-C10-C11-C12
19	A	855	CLA	C8-C10-C11-C12
19	A	855	CLA	C10-C11-C12-C13
19	B	819	CLA	C8-C10-C11-C12
19	A	824	CLA	C13-C15-C16-C17
19	2	506	CLA	C13-C15-C16-C17
19	A	819	CLA	C10-C11-C12-C13
19	B	832	CLA	C5-C6-C7-C8
22	2	518	LMG	O6-C5-C6-O5
19	B	815	CLA	C3-C5-C6-C7
19	L	304	CLA	C3-C5-C6-C7
19	1	516	CLA	C3-C5-C6-C7
19	K	1002	CLA	C3-C5-C6-C7
19	4	306	CLA	C3-C5-C6-C7
19	B	822	CLA	C3-C5-C6-C7
19	B	832	CLA	C3-C5-C6-C7
19	A	821	CLA	CBA-CGA-O2A-C1
19	3	308	CLA	C5-C6-C7-C8
19	A	804	CLA	C15-C16-C17-C18
29	A	844	PQN	C18-C20-C21-C22
19	G	201	CLA	C13-C15-C16-C17
19	A	854	CLA	C5-C6-C7-C8
19	B	839	CLA	C5-C6-C7-C8
19	G	202	CLA	C5-C6-C7-C8
19	B	825	CLA	C5-C6-C7-C8
19	A	806	CLA	C5-C6-C7-C8
19	A	806	CLA	C8-C10-C11-C12
19	J	1101	CLA	C8-C10-C11-C12
19	A	828	CLA	C15-C16-C17-C18
19	A	829	CLA	C15-C16-C17-C18
22	F	304	LMG	C34-C35-C36-C37
22	B	844	LMG	C10-C11-C12-C13
19	B	838	CLA	O1D-CGD-O2D-CED
19	2	507	CLA	O1A-CGA-O2A-C1
26	J	1106	DGD	CDA-CEA-CFA-CGA

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Mol	Chain	Res	Type	Atoms
19	A	814	CLA	O1D-CGD-O2D-CED
26	B	854	DGD	O6E-C5E-C6E-O5E
19	3	308	CLA	C13-C15-C16-C17
19	B	824	CLA	C15-C16-C17-C18
19	B	808	CLA	C8-C10-C11-C12
19	B	820	CLA	C13-C15-C16-C17
19	4	306	CLA	C8-C10-C11-C12
19	A	822	CLA	C8-C10-C11-C12
19	B	825	CLA	C13-C15-C16-C17
19	B	838	CLA	C5-C6-C7-C8
19	B	831	CLA	C8-C10-C11-C12
19	B	805	CLA	C13-C15-C16-C17
19	F	303	CLA	C5-C6-C7-C8
19	4	304	CLA	C8-C10-C11-C12
19	4	318	CLA	C8-C10-C11-C12
19	A	837	CLA	C5-C6-C7-C8
19	A	809	CLA	C10-C11-C12-C13
19	A	809	CLA	C13-C15-C16-C17
19	2	506	CLA	C15-C16-C17-C18
19	B	811	CLA	C5-C6-C7-C8
19	B	811	CLA	C8-C10-C11-C12
21	A	845	LHG	O1-C1-C2-O2
21	1	517	LHG	O1-C1-C2-O2
19	3	310	CLA	O1A-CGA-O2A-C1
19	A	807	CLA	O1A-CGA-O2A-C1
21	A	853	LHG	C7-C8-C9-C10
21	B	843	LHG	C23-C24-C25-C26
19	3	308	CLA	C8-C10-C11-C12
19	1	516	CLA	C5-C6-C7-C8
19	B	808	CLA	C15-C16-C17-C18
19	4	306	CLA	C10-C11-C12-C13
19	B	836	CLA	C15-C16-C17-C18
19	B	831	CLA	C5-C6-C7-C8
19	F	303	CLA	C8-C10-C11-C12
19	A	817	CLA	C5-C6-C7-C8
19	B	812	CLA	C8-C10-C11-C12
19	B	807	CLA	C8-C10-C11-C12
19	B	818	CLA	C15-C16-C17-C18
19	4	307	CLA	C8-C10-C11-C12
19	A	836	CLA	O1D-CGD-O2D-CED
19	4	309	CLA	C2-C1-O2A-CGA
19	A	838	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
19	A	805	CLA	C2-C1-O2A-CGA
19	3	315	CLA	C2-C1-O2A-CGA
19	1	508	CLA	C2-C1-O2A-CGA
19	A	823	CLA	C2-C1-O2A-CGA
19	B	823	CLA	C2-C1-O2A-CGA
19	L	305	CLA	C2-C1-O2A-CGA
19	A	822	CLA	C2-C1-O2A-CGA
19	A	835	CLA	C2-C1-O2A-CGA
19	A	814	CLA	C2-C1-O2A-CGA
19	B	838	CLA	C2-C1-O2A-CGA
19	2	509	CLA	C2-C1-O2A-CGA
19	1	513	CLA	C2-C1-O2A-CGA
19	A	809	CLA	C2-C1-O2A-CGA
19	B	832	CLA	C2-C1-O2A-CGA
19	2	511	CLA	C2-C1-O2A-CGA
19	B	811	CLA	C2-C1-O2A-CGA
19	A	803	CLA	C2-C1-O2A-CGA
19	A	840	CLA	C8-C10-C11-C12
19	A	808	CLA	C5-C6-C7-C8
19	B	830	CLA	C8-C10-C11-C12
19	4	306	CLA	C5-C6-C7-C8
19	A	833	CLA	C5-C6-C7-C8
19	A	835	CLA	C5-C6-C7-C8
19	4	304	CLA	C10-C11-C12-C13
19	B	805	CLA	O1D-CGD-O2D-CED
26	G	207	DGD	C1B-C2B-C3B-C4B
21	1	520	LHG	C23-C24-C25-C26
24	G	208	LMT	O5'-C5'-C6'-O6'
24	G	208	LMT	C3'-C4'-O1B-C1B
19	3	307	CLA	C5-C6-C7-C8
19	A	802	CLA	O1D-CGD-O2D-CED
19	A	805	CLA	C6-C7-C8-C10
19	A	806	CLA	C12-C13-C15-C16
19	B	810	CLA	C12-C13-C15-C16
19	A	824	CLA	C12-C13-C15-C16
19	A	828	CLA	C3-C5-C6-C7
19	G	204	CLA	C3-C5-C6-C7
19	B	837	CLA	O1A-CGA-O2A-C1
19	A	822	CLA	O1A-CGA-O2A-C1
26	4	319	DGD	O1A-C1A-O1G-C1G
19	A	817	CLA	O1A-CGA-O2A-C1
18	4	301	BCR	C13-C14-C15-C16

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Mol	Chain	Res	Type	Atoms
18	4	301	BCR	C19-C20-C21-C22
18	2	503	BCR	C19-C20-C21-C22
19	B	803	CLA	CBD-CGD-O2D-CED
19	1	507	CLA	CBA-CGA-O2A-C1
19	4	309	CLA	C2A-CAA-CBA-CGA
19	3	316	CLA	C2A-CAA-CBA-CGA
19	A	830	CLA	O1D-CGD-O2D-CED
19	B	840	CLA	O1D-CGD-O2D-CED
19	A	812	CLA	O1D-CGD-O2D-CED
19	B	835	CLA	O1D-CGD-O2D-CED
19	A	833	CLA	C15-C16-C17-C18
19	A	839	CLA	C15-C16-C17-C18
19	A	854	CLA	C13-C15-C16-C17
19	4	315	CLA	C13-C15-C16-C17
19	B	828	CLA	C5-C6-C7-C8
19	4	308	CLA	C5-C6-C7-C8
19	A	855	CLA	C13-C15-C16-C17
19	A	828	CLA	C10-C11-C12-C13
19	B	818	CLA	C8-C10-C11-C12
19	B	814	CLA	C5-C6-C7-C8
24	B	855	LMT	O1'-C1-C2-C3
22	J	1103	LMG	C11-C12-C13-C14
19	4	309	CLA	O1A-CGA-O2A-C1
19	A	814	CLA	O1A-CGA-O2A-C1
19	A	836	CLA	O1A-CGA-O2A-C1
24	B	846	LMT	O5'-C1'-O1'-C1
24	B	847	LMT	O5'-C1'-O1'-C1
19	A	805	CLA	C13-C15-C16-C17
19	A	825	CLA	C15-C16-C17-C18
19	A	833	CLA	C8-C10-C11-C12
19	A	819	CLA	C5-C6-C7-C8
24	G	208	LMT	O1'-C1-C2-C3
21	A	845	LHG	C23-C24-C25-C26
18	2	503	BCR	C10-C11-C12-C13
18	K	1005	BCR	C10-C11-C12-C13
18	B	849	BCR	C10-C11-C12-C13
18	B	856	BCR	C10-C11-C12-C13
18	B	852	BCR	C10-C11-C12-C13
18	L	307	BCR	C10-C11-C12-C13
18	A	848	BCR	C10-C11-C12-C13
21	1	520	LHG	O2-C2-C3-O3
22	2	519	LMG	O9-C10-O7-C8

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Mol	Chain	Res	Type	Atoms
21	1	517	LHG	O9-C7-O7-C5
19	B	833	CLA	C8-C10-C11-C12
19	A	813	CLA	C13-C15-C16-C17
19	B	822	CLA	C15-C16-C17-C18
19	L	301	CLA	C5-C6-C7-C8
19	B	839	CLA	C15-C16-C17-C18
19	1	513	CLA	C15-C16-C17-C18
19	F	303	CLA	C13-C15-C16-C17
19	A	811	CLA	C10-C11-C12-C13
19	A	817	CLA	C10-C11-C12-C13
19	A	817	CLA	C13-C15-C16-C17
19	2	506	CLA	C5-C6-C7-C8
19	B	833	CLA	O1D-CGD-O2D-CED
19	K	1002	CLA	O1A-CGA-O2A-C1
19	A	809	CLA	O1A-CGA-O2A-C1
24	3	318	LMT	C4'-C5'-C6'-O6'
19	A	810	CLA	O1D-CGD-O2D-CED
19	A	838	CLA	C10-C11-C12-C13
19	B	815	CLA	C15-C16-C17-C18
19	A	832	CLA	C13-C15-C16-C17
19	A	833	CLA	C13-C15-C16-C17
19	4	310	CLA	C5-C6-C7-C8
19	B	806	CLA	C13-C15-C16-C17
19	A	814	CLA	C8-C10-C11-C12
19	2	507	CLA	C15-C16-C17-C18
19	A	811	CLA	C13-C15-C16-C17
19	B	829	CLA	C10-C11-C12-C13
19	A	808	CLA	O1D-CGD-O2D-CED
19	2	508	CLA	O1D-CGD-O2D-CED
19	A	821	CLA	O1A-CGA-O2A-C1
19	3	305	CLA	C4C-C3C-CAC-CBC
19	A	840	CLA	C15-C16-C17-C18
19	A	854	CLA	C8-C10-C11-C12
19	B	822	CLA	C5-C6-C7-C8
19	B	825	CLA	C8-C10-C11-C12
19	1	504	CLA	C13-C15-C16-C17
19	B	819	CLA	C5-C6-C7-C8
19	G	204	CLA	C13-C15-C16-C17
19	F	302	CLA	C13-C15-C16-C17
19	A	831	CLA	C5-C6-C7-C8
21	2	517	LHG	C4-O6-P-O3
21	A	845	LHG	C4-O6-P-O3

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Mol	Chain	Res	Type	Atoms
21	A	853	LHG	C3-O3-P-O6
21	A	853	LHG	C4-O6-P-O3
21	1	520	LHG	C3-O3-P-O6
24	3	318	LMT	O5'-C5'-C6'-O6'
19	B	836	CLA	C3-C5-C6-C7
19	B	807	CLA	C3-C5-C6-C7
19	B	833	CLA	CBA-CGA-O2A-C1
19	B	820	CLA	C10-C11-C12-C13
19	A	806	CLA	C15-C16-C17-C18
19	A	834	CLA	C13-C15-C16-C17
21	A	845	LHG	C1-C2-C3-O3
24	B	846	LMT	O5'-C5'-C6'-O6'
21	1	517	LHG	C1-C2-C3-O3
21	1	520	LHG	C1-C2-C3-O3
19	2	507	CLA	C4-C3-C5-C6
19	A	826	CLA	C2-C3-C5-C6
19	B	816	CLA	C5-C6-C7-C8
19	B	817	CLA	O1D-CGD-O2D-CED
24	G	208	LMT	C5'-C4'-O1B-C1B
19	4	306	CLA	C2A-CAA-CBA-CGA
20	4	316	CHL	C2A-CAA-CBA-CGA
19	4	311	CLA	C2A-CAA-CBA-CGA
19	A	818	CLA	C2A-CAA-CBA-CGA
19	L	304	CLA	C11-C12-C13-C15
19	A	823	CLA	C11-C12-C13-C15
19	B	811	CLA	C16-C17-C18-C19
19	2	508	CLA	CBA-CGA-O2A-C1
19	3	305	CLA	CBA-CGA-O2A-C1
19	B	835	CLA	CBA-CGA-O2A-C1
18	J	1108	BCR	C19-C20-C21-C22
17	J	1109	LUT	C29-C30-C31-C32
22	G	206	LMG	C15-C16-C17-C18
19	2	507	CLA	O1D-CGD-O2D-CED
24	J	1107	LMT	O5'-C5'-C6'-O6'
18	G	205	BCR	C11-C10-C9-C34
26	B	854	DGD	C3A-C4A-C5A-C6A
21	1	517	LHG	C11-C10-C9-C8
21	1	517	LHG	C9-C10-C11-C12
19	A	829	CLA	O1D-CGD-O2D-CED
19	A	838	CLA	C16-C17-C18-C19
19	B	815	CLA	C16-C17-C18-C20
19	1	508	CLA	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
19	4	310	CLA	C11-C12-C13-C14
19	A	855	CLA	C16-C17-C18-C19
19	A	826	CLA	C6-C7-C8-C9
19	4	307	CLA	C11-C12-C13-C14
22	B	844	LMG	C11-C12-C13-C14
19	B	814	CLA	C15-C16-C17-C18
20	1	521	CHL	C2C-C3C-CAC-CBC
22	4	322	LMG	O6-C5-C6-O5
21	1	517	LHG	C25-C26-C27-C28
21	1	517	LHG	C28-C29-C30-C31
19	B	818	CLA	C10-C11-C12-C13
24	4	320	LMT	O1'-C1-C2-C3
21	B	843	LHG	C7-C8-C9-C10
19	A	839	CLA	O1D-CGD-O2D-CED
22	B	845	LMG	C2-C1-O1-C7
24	B	846	LMT	C2'-C1'-O1'-C1
24	B	847	LMT	C2'-C1'-O1'-C1
26	4	319	DGD	C2D-C1D-O3G-C3G
18	G	205	BCR	C11-C10-C9-C8
22	J	1104	LMG	C2-C1-O1-C7
24	B	846	LMT	C7-C8-C9-C10
21	A	853	LHG	C13-C14-C15-C16
26	J	1106	DGD	CCA-CDA-CEA-CFA
21	B	843	LHG	C24-C25-C26-C27
19	A	814	CLA	C13-C15-C16-C17
19	2	508	CLA	O1A-CGA-O2A-C1
19	2	510	CLA	C11-C12-C13-C14
19	G	202	CLA	C6-C7-C8-C9
19	B	825	CLA	C16-C17-C18-C20
19	3	307	CLA	C6-C7-C8-C9
19	B	830	CLA	O1D-CGD-O2D-CED
19	A	803	CLA	O1D-CGD-O2D-CED
20	1	514	CHL	C4-C3-C5-C6
22	2	519	LMG	C14-C15-C16-C17
21	A	853	LHG	C29-C30-C31-C32
21	1	520	LHG	C14-C15-C16-C17
19	A	840	CLA	C11-C10-C8-C9
19	A	808	CLA	C11-C12-C13-C14
19	A	825	CLA	C11-C10-C8-C9
19	A	833	CLA	C11-C12-C13-C14
19	B	822	CLA	C11-C10-C8-C9
19	1	504	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
19	1	513	CLA	C6-C7-C8-C9
19	B	804	CLA	C11-C12-C13-C14
19	A	817	CLA	C11-C10-C8-C9
19	A	831	CLA	C11-C12-C13-C14
19	A	829	CLA	C14-C13-C15-C16
26	B	854	DGD	C6A-C7A-C8A-C9A
21	1	517	LHG	C34-C35-C36-C37
19	A	832	CLA	C5-C6-C7-C8
19	A	804	CLA	C8-C10-C11-C12
19	4	306	CLA	C13-C15-C16-C17
19	3	308	CLA	C2A-CAA-CBA-CGA
20	2	516	CHL	C2A-CAA-CBA-CGA
19	A	842	CLA	C2A-CAA-CBA-CGA
19	G	202	CLA	C2A-CAA-CBA-CGA
19	A	816	CLA	C2A-CAA-CBA-CGA
19	3	305	CLA	O1A-CGA-O2A-C1
19	1	507	CLA	O1A-CGA-O2A-C1
18	I	102	BCR	C37-C22-C23-C24
17	3	302	LUT	C7-C8-C9-C19
18	K	1005	BCR	C11-C12-C13-C35
18	B	856	BCR	C11-C12-C13-C35
18	3	304	BCR	C11-C12-C13-C35
26	B	854	DGD	C2A-C3A-C4A-C5A
21	A	845	LHG	O1-C1-C2-C3
18	I	102	BCR	C21-C22-C23-C24
17	1	502	LUT	C31-C32-C33-C34
18	K	1005	BCR	C11-C12-C13-C14
18	B	856	BCR	C11-C12-C13-C14
18	3	303	BCR	C11-C12-C13-C14
18	L	307	BCR	C11-C12-C13-C14
18	3	304	BCR	C11-C12-C13-C14
19	A	854	CLA	C3-C5-C6-C7
19	A	819	CLA	C3-C5-C6-C7
26	B	801	DGD	O1B-C1B-O2G-C2G
19	3	305	CLA	C5-C6-C7-C8
26	B	801	DGD	C2B-C1B-O2G-C2G
21	A	853	LHG	C28-C29-C30-C31
21	1	520	LHG	C16-C17-C18-C19
22	B	845	LMG	C10-C11-C12-C13
22	G	206	LMG	C28-C29-C30-C31
26	B	854	DGD	C4B-C5B-C6B-C7B
21	A	845	LHG	C13-C14-C15-C16

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Mol	Chain	Res	Type	Atoms
19	A	840	CLA	C16-C17-C18-C20
19	B	815	CLA	C16-C17-C18-C19
19	B	824	CLA	C16-C17-C18-C19
19	B	824	CLA	C16-C17-C18-C20
19	B	834	CLA	C6-C7-C8-C9
19	A	854	CLA	C16-C17-C18-C19
19	A	822	CLA	C11-C12-C13-C14
19	A	822	CLA	C11-C12-C13-C15
19	B	840	CLA	C16-C17-C18-C20
19	A	814	CLA	C16-C17-C18-C19
20	4	316	CHL	C11-C12-C13-C15
19	F	302	CLA	C16-C17-C18-C19
19	F	302	CLA	C16-C17-C18-C20
19	B	812	CLA	C11-C12-C13-C14
19	B	812	CLA	C11-C12-C13-C15
19	B	811	CLA	C16-C17-C18-C20
19	4	307	CLA	C11-C12-C13-C15
22	B	845	LMG	O6-C1-O1-C7
26	4	319	DGD	O6D-C1D-O3G-C3G
22	J	1104	LMG	O6-C1-O1-C7
19	1	507	CLA	C13-C15-C16-C17
19	4	318	CLA	C13-C15-C16-C17
19	B	809	CLA	C10-C11-C12-C13
19	H	1000	CLA	C10-C11-C12-C13
22	F	305	LMG	C32-C33-C34-C35
21	A	845	LHG	C9-C10-C11-C12
21	A	853	LHG	C34-C35-C36-C37
24	G	208	LMT	C4-C5-C6-C7
24	2	523	LMT	C2-C3-C4-C5
22	1	518	LMG	C11-C12-C13-C14
26	B	801	DGD	C4D-C5D-C6D-O5D
19	4	309	CLA	CBD-CGD-O2D-CED
19	B	821	CLA	O1D-CGD-O2D-CED
19	2	504	CLA	O1D-CGD-O2D-CED
21	2	517	LHG	C9-C10-C11-C12
21	1	517	LHG	C11-C12-C13-C14
19	K	1002	CLA	C5-C6-C7-C8
29	B	841	PQN	C25-C26-C27-C28
19	B	835	CLA	O1A-CGA-O2A-C1
21	1	520	LHG	C11-C12-C13-C14
19	L	304	CLA	O1D-CGD-O2D-CED
19	B	824	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
20	2	516	CHL	C3A-C2A-CAA-CBA
19	A	805	CLA	C3A-C2A-CAA-CBA
19	K	1002	CLA	C3A-C2A-CAA-CBA
19	3	316	CLA	C3A-C2A-CAA-CBA
20	2	515	CHL	C3A-C2A-CAA-CBA
19	G	201	CLA	C3A-C2A-CAA-CBA
19	G	203	CLA	C3A-C2A-CAA-CBA
19	4	308	CLA	C3A-C2A-CAA-CBA
19	A	806	CLA	C3A-C2A-CAA-CBA
19	3	309	CLA	C3A-C2A-CAA-CBA
19	J	1101	CLA	C3A-C2A-CAA-CBA
19	A	815	CLA	C3A-C2A-CAA-CBA
19	1	506	CLA	C3A-C2A-CAA-CBA
19	K	1001	CLA	C3A-C2A-CAA-CBA
19	J	1105	CLA	C3A-C2A-CAA-CBA
19	B	814	CLA	C3A-C2A-CAA-CBA
19	B	835	CLA	C3A-C2A-CAA-CBA
19	3	317	CLA	C3A-C2A-CAA-CBA
19	A	808	CLA	C8-C10-C11-C12
22	2	524	LMG	O6-C5-C6-O5
18	I	102	BCR	C13-C14-C15-C16
18	L	307	BCR	C15-C16-C17-C18
19	A	840	CLA	C16-C17-C18-C19
19	L	304	CLA	C11-C12-C13-C14
19	B	834	CLA	C6-C7-C8-C10
19	1	508	CLA	C16-C17-C18-C20
19	A	854	CLA	C16-C17-C18-C20
19	A	823	CLA	C11-C12-C13-C14
19	B	840	CLA	C16-C17-C18-C19
19	A	814	CLA	C16-C17-C18-C20
19	B	825	CLA	C16-C17-C18-C19
19	A	855	CLA	C16-C17-C18-C20
19	A	826	CLA	C6-C7-C8-C10
19	3	305	CLA	C6-C7-C8-C10
19	F	303	CLA	C16-C17-C18-C19
19	F	303	CLA	C16-C17-C18-C20
19	B	807	CLA	C16-C17-C18-C20
19	A	829	CLA	C16-C17-C18-C19
19	A	829	CLA	C16-C17-C18-C20
22	1	518	LMG	C18-C19-C20-C21
19	A	827	CLA	O1D-CGD-O2D-CED
22	G	210	LMG	O6-C5-C6-O5

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Mol	Chain	Res	Type	Atoms
19	2	514	CLA	CBD-CGD-O2D-CED
21	1	517	LHG	C14-C15-C16-C17
29	A	844	PQN	C13-C15-C16-C17
22	2	519	LMG	C12-C13-C14-C15
21	1	517	LHG	C29-C30-C31-C32
19	B	806	CLA	C4-C3-C5-C6
19	A	807	CLA	C4-C3-C5-C6
19	A	854	CLA	CBA-CGA-O2A-C1
19	A	829	CLA	CBA-CGA-O2A-C1
24	G	209	LMT	C3'-C4'-O1B-C1B
22	4	322	LMG	C11-C12-C13-C14
21	A	845	LHG	C11-C12-C13-C14
21	A	853	LHG	C33-C34-C35-C36
26	4	319	DGD	C5A-C6A-C7A-C8A
21	1	520	LHG	C12-C13-C14-C15
19	B	836	CLA	O1D-CGD-O2D-CED
19	G	204	CLA	C2A-CAA-CBA-CGA
21	B	842	LHG	O1-C1-C2-O2
21	B	843	LHG	O1-C1-C2-O2
19	3	306	CLA	C2C-C3C-CAC-CBC
21	1	520	LHG	C18-C19-C20-C21
19	4	318	CLA	O1D-CGD-O2D-CED
19	2	510	CLA	C11-C12-C13-C15
26	4	319	DGD	C3B-C4B-C5B-C6B
19	B	840	CLA	C8-C10-C11-C12
19	B	807	CLA	C5-C6-C7-C8
19	B	833	CLA	O1A-CGA-O2A-C1
19	2	510	CLA	C2-C1-O2A-CGA
19	A	825	CLA	C2-C1-O2A-CGA
19	A	833	CLA	C2-C1-O2A-CGA
19	4	305	CLA	C2-C1-O2A-CGA
19	B	817	CLA	C2-C1-O2A-CGA
19	3	312	CLA	C2-C1-O2A-CGA
20	4	314	CHL	C2-C1-O2A-CGA
19	3	310	CLA	C2-C1-O2A-CGA
19	B	839	CLA	C2-C1-O2A-CGA
19	G	202	CLA	C2-C1-O2A-CGA
19	A	826	CLA	C2-C1-O2A-CGA
19	J	1101	CLA	C2-C1-O2A-CGA
19	A	834	CLA	C2-C1-O2A-CGA
19	1	509	CLA	C2-C1-O2A-CGA
19	A	828	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
19	3	305	CLA	C2-C1-O2A-CGA
19	B	807	CLA	C2-C1-O2A-CGA
19	A	824	CLA	C2-C1-O2A-CGA
19	A	818	CLA	C2-C1-O2A-CGA
19	A	832	CLA	C15-C16-C17-C18
19	B	839	CLA	C10-C11-C12-C13
19	A	809	CLA	C5-C6-C7-C8
24	B	847	LMT	C4-C5-C6-C7
22	F	305	LMG	C28-C29-C30-C31
19	3	316	CLA	O1A-CGA-O2A-C1
18	A	849	BCR	C23-C24-C25-C26
18	4	301	BCR	C1-C6-C7-C8
18	4	301	BCR	C5-C6-C7-C8
18	2	503	BCR	C1-C6-C7-C8
18	2	503	BCR	C5-C6-C7-C8
17	2	501	LUT	C5-C6-C7-C8
18	I	102	BCR	C23-C24-C25-C30
19	3	313	CLA	C3-C5-C6-C7
18	L	302	BCR	C23-C24-C25-C26
18	L	302	BCR	C23-C24-C25-C30
18	L	306	BCR	C5-C6-C7-C8
18	J	1108	BCR	C1-C6-C7-C8
18	J	1108	BCR	C5-C6-C7-C8
18	A	848	BCR	C1-C6-C7-C8
18	A	848	BCR	C5-C6-C7-C8
18	3	304	BCR	C23-C24-C25-C26
18	3	304	BCR	C23-C24-C25-C30
17	1	501	LUT	C1-C6-C7-C8
17	1	501	LUT	C5-C6-C7-C8
18	A	851	BCR	C23-C24-C25-C26
18	B	853	BCR	C1-C6-C7-C8
18	B	853	BCR	C5-C6-C7-C8
17	3	301	LUT	C5-C6-C7-C8
18	B	851	BCR	C1-C6-C7-C8
18	B	851	BCR	C5-C6-C7-C8
24	3	318	LMT	O5B-C5B-C6B-O6B
22	B	845	LMG	O6-C5-C6-O5
21	A	853	LHG	C25-C26-C27-C28
19	F	302	CLA	CBA-CGA-O2A-C1
19	A	821	CLA	C8-C10-C11-C12
19	B	808	CLA	C5-C6-C7-C8
29	A	844	PQN	C25-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
19	B	826	CLA	C15-C16-C17-C18
19	A	827	CLA	C5-C6-C7-C8
19	G	201	CLA	C5-C6-C7-C8
19	1	504	CLA	C15-C16-C17-C18
19	1	513	CLA	C5-C6-C7-C8
19	2	514	CLA	C5-C6-C7-C8
22	F	305	LMG	C10-C11-C12-C13
24	G	209	LMT	C4-C5-C6-C7
19	A	832	CLA	C10-C11-C12-C13
19	G	201	CLA	O1D-CGD-O2D-CED
19	3	313	CLA	C4-C3-C5-C6
19	B	822	CLA	C4-C3-C5-C6
19	B	840	CLA	C4-C3-C5-C6
19	A	841	CLA	O1D-CGD-O2D-CED
19	A	840	CLA	C6-C7-C8-C10
19	A	840	CLA	C11-C10-C8-C7
20	1	514	CHL	C2-C3-C5-C6
19	A	808	CLA	C11-C12-C13-C15
19	B	824	CLA	C11-C12-C13-C15
19	A	832	CLA	C11-C12-C13-C15
19	A	805	CLA	C11-C12-C13-C15
19	A	805	CLA	C12-C13-C15-C16
19	A	825	CLA	C11-C10-C8-C7
19	3	313	CLA	C2-C3-C5-C6
19	A	833	CLA	C11-C12-C13-C15
19	A	854	CLA	C6-C7-C8-C10
19	4	315	CLA	C12-C13-C15-C16
19	B	806	CLA	C2-C3-C5-C6
19	A	814	CLA	C12-C13-C15-C16
29	B	841	PQN	C17-C18-C20-C21
19	B	819	CLA	C2-C3-C5-C6
19	B	831	CLA	C11-C10-C8-C7
19	1	513	CLA	C6-C7-C8-C10
19	1	513	CLA	C11-C10-C8-C7
19	F	303	CLA	C11-C12-C13-C15
19	A	817	CLA	C12-C13-C15-C16
19	B	812	CLA	C11-C10-C8-C7
19	A	807	CLA	C2-C3-C5-C6
19	A	819	CLA	C6-C7-C8-C10
19	B	829	CLA	C6-C7-C8-C10
19	A	831	CLA	C11-C12-C13-C15
19	4	307	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
19	A	829	CLA	C12-C13-C15-C16
19	B	821	CLA	CBA-CGA-O2A-C1
19	A	854	CLA	O1A-CGA-O2A-C1
19	A	829	CLA	O1A-CGA-O2A-C1
19	4	315	CLA	C10-C11-C12-C13
18	B	850	BCR	C13-C14-C15-C16
18	A	848	BCR	C15-C16-C17-C18
19	B	828	CLA	CBD-CGD-O2D-CED
19	3	307	CLA	C6-C7-C8-C10
19	A	830	CLA	CBA-CGA-O2A-C1
19	A	825	CLA	CBA-CGA-O2A-C1
19	3	313	CLA	C8-C10-C11-C12
19	B	840	CLA	C10-C11-C12-C13
19	4	308	CLA	C10-C11-C12-C13
19	B	829	CLA	C8-C10-C11-C12
21	B	843	LHG	C34-C35-C36-C37
19	B	832	CLA	O1D-CGD-O2D-CED
19	L	303	CLA	O1D-CGD-O2D-CED
19	J	1101	CLA	C15-C16-C17-C18
19	A	824	CLA	C5-C6-C7-C8
21	1	517	LHG	C35-C36-C37-C38
19	G	202	CLA	C6-C7-C8-C10
19	1	506	CLA	C6-C7-C8-C9
19	A	821	CLA	O1D-CGD-O2D-CED
19	B	831	CLA	O1D-CGD-O2D-CED
22	A	847	LMG	C18-C19-C20-C21
21	2	517	LHG	C8-C7-O7-C5
18	B	851	BCR	C10-C11-C12-C13
22	B	844	LMG	C4-C5-C6-O5
19	K	1002	CLA	C8-C10-C11-C12
19	A	827	CLA	C10-C11-C12-C13
21	A	853	LHG	C11-C12-C13-C14
21	2	517	LHG	O9-C7-O7-C5
21	A	845	LHG	C16-C17-C18-C19
26	B	801	DGD	C2E-C1E-O5D-C6D
22	G	206	LMG	O1-C7-C8-O7
19	4	310	CLA	C11-C12-C13-C15
22	B	845	LMG	C12-C13-C14-C15
22	A	847	LMG	O6-C5-C6-O5
24	4	320	LMT	O5B-C5B-C6B-O6B
19	A	825	CLA	C4-C3-C5-C6
19	A	833	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
19	4	304	CLA	C4-C3-C5-C6
22	F	304	LMG	C28-C29-C30-C31
19	B	822	CLA	C2-C3-C5-C6
20	1	521	CHL	C2-C3-C5-C6
19	A	840	CLA	C6-C7-C8-C9
19	B	824	CLA	C11-C12-C13-C14
19	A	805	CLA	C6-C7-C8-C9
19	A	805	CLA	C11-C12-C13-C14
19	B	833	CLA	C6-C7-C8-C9
19	A	830	CLA	C11-C10-C8-C9
19	A	854	CLA	C6-C7-C8-C9
19	A	813	CLA	C11-C10-C8-C9
19	B	822	CLA	C14-C13-C15-C16
19	B	839	CLA	C11-C12-C13-C14
19	B	819	CLA	C6-C7-C8-C9
19	1	513	CLA	C11-C10-C8-C9
19	B	829	CLA	C6-C7-C8-C9
19	A	803	CLA	C14-C13-C15-C16
19	4	307	CLA	C11-C10-C8-C9
19	B	820	CLA	O1D-CGD-O2D-CED
26	B	854	DGD	C2G-C1G-O1G-C1A
21	A	853	LHG	C12-C13-C14-C15
19	L	305	CLA	C2A-CAA-CBA-CGA
19	B	821	CLA	C2A-CAA-CBA-CGA
24	2	523	LMT	C1-C2-C3-C4
21	A	845	LHG	C15-C16-C17-C18
24	B	847	LMT	O5B-C5B-C6B-O6B
24	B	855	LMT	O5'-C5'-C6'-O6'
19	4	307	CLA	CBA-CGA-O2A-C1
18	A	849	BCR	C37-C22-C23-C24
23	2	502	XAT	C27-C28-C29-C39
19	B	819	CLA	C15-C16-C17-C18
18	A	849	BCR	C21-C22-C23-C24
18	I	102	BCR	C7-C8-C9-C10
19	F	302	CLA	O1A-CGA-O2A-C1
19	3	308	CLA	C1A-C2A-CAA-CBA
19	A	838	CLA	C1A-C2A-CAA-CBA
19	A	808	CLA	C1A-C2A-CAA-CBA
19	B	824	CLA	C1A-C2A-CAA-CBA
20	2	516	CHL	C1A-C2A-CAA-CBA
19	A	805	CLA	C1A-C2A-CAA-CBA
20	1	512	CHL	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
19	3	316	CLA	C1A-C2A-CAA-CBA
19	B	837	CLA	C1A-C2A-CAA-CBA
20	2	515	CHL	C1A-C2A-CAA-CBA
19	B	817	CLA	C1A-C2A-CAA-CBA
19	B	823	CLA	C1A-C2A-CAA-CBA
19	A	822	CLA	C1A-C2A-CAA-CBA
19	G	203	CLA	C1A-C2A-CAA-CBA
19	B	806	CLA	C1A-C2A-CAA-CBA
19	A	814	CLA	C1A-C2A-CAA-CBA
19	4	308	CLA	C1A-C2A-CAA-CBA
19	1	504	CLA	C1A-C2A-CAA-CBA
19	A	806	CLA	C1A-C2A-CAA-CBA
19	B	821	CLA	C1A-C2A-CAA-CBA
19	3	309	CLA	C1A-C2A-CAA-CBA
19	J	1101	CLA	C1A-C2A-CAA-CBA
19	2	507	CLA	C1A-C2A-CAA-CBA
19	A	834	CLA	C1A-C2A-CAA-CBA
19	4	304	CLA	C1A-C2A-CAA-CBA
19	G	204	CLA	C1A-C2A-CAA-CBA
19	A	809	CLA	C1A-C2A-CAA-CBA
19	B	829	CLA	C1A-C2A-CAA-CBA
19	3	307	CLA	C1A-C2A-CAA-CBA
19	A	818	CLA	C1A-C2A-CAA-CBA
19	B	835	CLA	C1A-C2A-CAA-CBA
19	3	317	CLA	C1A-C2A-CAA-CBA
19	2	504	CLA	C1A-C2A-CAA-CBA
19	A	838	CLA	C16-C17-C18-C20
19	1	506	CLA	C6-C7-C8-C10
19	A	817	CLA	C16-C17-C18-C20
26	4	319	DGD	C2B-C1B-O2G-C2G
22	G	206	LMG	C16-C17-C18-C19
21	B	843	LHG	C11-C12-C13-C14
18	L	306	BCR	C19-C20-C21-C22
18	3	304	BCR	C19-C20-C21-C22
19	B	803	CLA	O1D-CGD-O2D-CED
19	A	805	CLA	C10-C11-C12-C13
19	1	508	CLA	C15-C16-C17-C18
19	B	840	CLA	C5-C6-C7-C8
21	2	517	LHG	C3-O3-P-O6
21	B	843	LHG	C3-O3-P-O6
24	2	523	LMT	O5'-C5'-C6'-O6'
20	1	521	CHL	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
19	A	825	CLA	O1A-CGA-O2A-C1
19	A	839	CLA	C8-C10-C11-C12
21	A	845	LHG	O6-C4-C5-C6
21	2	517	LHG	C7-C8-C9-C10
20	1	514	CHL	C11-C12-C13-C15
24	4	320	LMT	C9-C10-C11-C12
22	B	844	LMG	O6-C5-C6-O5
26	4	319	DGD	O1B-C1B-O2G-C2G
19	2	507	CLA	C2-C3-C5-C6
19	B	823	CLA	C5-C6-C7-C8
19	B	837	CLA	C2A-CAA-CBA-CGA
19	A	808	CLA	C16-C17-C18-C19
19	A	826	CLA	O1D-CGD-O2D-CED
19	A	808	CLA	C3-C5-C6-C7
26	B	801	DGD	O1G-C1G-C2G-C3G
22	F	305	LMG	C7-C8-C9-O8
22	G	206	LMG	O1-C7-C8-C9
21	1	517	LHG	C4-C5-C6-O8
21	B	843	LHG	C4-C5-C6-O8
19	A	830	CLA	O1A-CGA-O2A-C1
26	B	801	DGD	C2G-C3G-O3G-C1D
22	G	206	LMG	C8-C7-O1-C1
26	J	1106	DGD	C5D-C6D-O5D-C1E
22	1	518	LMG	C8-C7-O1-C1
22	F	305	LMG	C33-C34-C35-C36
29	A	844	PQN	C15-C16-C17-C18
19	A	818	CLA	C11-C10-C8-C9
26	B	854	DGD	C7A-C8A-C9A-CAA
26	4	319	DGD	C4A-C5A-C6A-C7A
21	B	843	LHG	C35-C36-C37-C38
19	A	821	CLA	C13-C15-C16-C17
19	B	803	CLA	C8-C10-C11-C12
19	B	827	CLA	C8-C10-C11-C12
26	B	854	DGD	C1B-C2B-C3B-C4B
22	2	522	LMG	C4-C5-C6-O5
19	B	824	CLA	C10-C11-C12-C13
19	G	204	CLA	C10-C11-C12-C13
19	B	814	CLA	C8-C10-C11-C12
18	J	1108	BCR	C11-C10-C9-C34
20	1	521	CHL	C4-C3-C5-C6
19	A	838	CLA	CBA-CGA-O2A-C1
19	2	509	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
19	B	831	CLA	CBA-CGA-O2A-C1
26	B	854	DGD	C4E-C5E-C6E-O5E
20	4	314	CHL	C2C-C3C-CAC-CBC
20	4	316	CHL	C4C-C3C-CAC-CBC
19	4	309	CLA	O1D-CGD-O2D-CED
19	A	811	CLA	C2A-CAA-CBA-CGA
19	A	802	CLA	C10-C11-C12-C13
19	1	516	CLA	C2-C1-O2A-CGA
19	B	833	CLA	C2-C1-O2A-CGA
19	L	301	CLA	C2-C1-O2A-CGA
19	F	303	CLA	C2-C1-O2A-CGA
19	A	820	CLA	C2-C1-O2A-CGA
22	J	1104	LMG	C33-C34-C35-C36
19	B	810	CLA	C5-C6-C7-C8
21	A	845	LHG	C11-C10-C9-C8
26	B	854	DGD	C2A-C1A-O1G-C1G
19	A	809	CLA	C16-C17-C18-C20
19	4	315	CLA	C15-C16-C17-C18
26	B	854	DGD	C4A-C5A-C6A-C7A
21	B	843	LHG	C33-C34-C35-C36
21	A	845	LHG	C7-C8-C9-C10
19	A	805	CLA	C8-C10-C11-C12
26	J	1106	DGD	C2E-C1E-O5D-C6D
22	A	847	LMG	C2-C1-O1-C7
26	B	801	DGD	O1G-C1G-C2G-O2G
26	B	801	DGD	O2G-C2G-C3G-O3G
21	A	853	LHG	O7-C5-C6-O8
19	A	807	CLA	C5-C6-C7-C8
19	A	840	CLA	C5-C6-C7-C8
19	3	308	CLA	C6-C7-C8-C10
19	1	516	CLA	C6-C7-C8-C10
19	A	804	CLA	C11-C10-C8-C7
19	B	833	CLA	C6-C7-C8-C10
19	A	830	CLA	C11-C10-C8-C7
19	K	1002	CLA	C11-C10-C8-C7
19	2	510	CLA	C11-C10-C8-C7
19	B	830	CLA	C11-C10-C8-C7
19	A	842	CLA	C6-C7-C8-C10
19	4	306	CLA	C12-C13-C15-C16
19	G	201	CLA	C6-C7-C8-C10
19	A	813	CLA	C11-C10-C8-C7
19	B	828	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
19	B	822	CLA	C12-C13-C15-C16
19	B	839	CLA	C6-C7-C8-C10
19	B	839	CLA	C11-C10-C8-C7
19	B	839	CLA	C11-C12-C13-C15
19	B	825	CLA	C6-C7-C8-C10
19	1	504	CLA	C11-C10-C8-C7
29	B	841	PQN	C21-C22-C23-C25
19	B	819	CLA	C6-C7-C8-C10
19	B	819	CLA	C11-C10-C8-C7
19	A	802	CLA	C11-C12-C13-C15
19	A	834	CLA	C11-C12-C13-C15
19	A	828	CLA	C11-C10-C8-C7
19	1	513	CLA	C11-C12-C13-C15
19	B	805	CLA	C11-C10-C8-C7
19	F	303	CLA	C11-C10-C8-C7
19	B	804	CLA	C11-C10-C8-C7
19	B	804	CLA	C12-C13-C15-C16
19	4	318	CLA	C12-C13-C15-C16
19	G	204	CLA	C12-C13-C15-C16
19	A	817	CLA	C11-C10-C8-C7
19	B	818	CLA	C11-C12-C13-C15
19	B	827	CLA	C11-C10-C8-C7
19	B	827	CLA	C12-C13-C15-C16
19	A	831	CLA	C6-C7-C8-C10
27	A	801	CL0	C3-C5-C6-C7
19	4	307	CLA	O1A-CGA-O2A-C1
19	B	808	CLA	C11-C12-C13-C14
19	A	804	CLA	C11-C12-C13-C14
19	A	842	CLA	C6-C7-C8-C9
19	A	842	CLA	C11-C10-C8-C9
19	1	508	CLA	C6-C7-C8-C9
19	G	201	CLA	C6-C7-C8-C9
19	G	201	CLA	C11-C10-C8-C9
19	A	854	CLA	C14-C13-C15-C16
19	B	828	CLA	C14-C13-C15-C16
19	B	806	CLA	C14-C13-C15-C16
19	B	839	CLA	C6-C7-C8-C9
29	B	841	PQN	C21-C22-C23-C24
19	A	855	CLA	C14-C13-C15-C16
19	A	834	CLA	C6-C7-C8-C9
19	A	834	CLA	C11-C12-C13-C14
19	B	838	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
19	1	513	CLA	C11-C12-C13-C14
19	B	805	CLA	C11-C10-C8-C9
19	B	805	CLA	C11-C12-C13-C14
19	F	303	CLA	C11-C10-C8-C9
19	A	811	CLA	C6-C7-C8-C9
19	G	204	CLA	C14-C13-C15-C16
19	F	302	CLA	C14-C13-C15-C16
19	B	807	CLA	C11-C12-C13-C14
19	B	827	CLA	C11-C10-C8-C9
19	B	827	CLA	C14-C13-C15-C16
19	H	1000	CLA	C6-C7-C8-C9
19	A	829	CLA	C11-C12-C13-C14
21	B	843	LHG	C9-C10-C11-C12
19	G	201	CLA	CBA-CGA-O2A-C1
19	4	310	CLA	C10-C11-C12-C13
19	G	204	CLA	C8-C10-C11-C12
19	A	829	CLA	C2A-CAA-CBA-CGA
18	1	503	BCR	C37-C22-C23-C24
18	3	304	BCR	C7-C8-C9-C34
19	A	817	CLA	C16-C17-C18-C19
18	I	102	BCR	C17-C18-C19-C20
18	1	503	BCR	C21-C22-C23-C24
19	G	201	CLA	C3-C5-C6-C7
19	4	310	CLA	C3-C5-C6-C7
19	3	308	CLA	C10-C11-C12-C13
19	A	840	CLA	CBA-CGA-O2A-C1
19	B	820	CLA	CBA-CGA-O2A-C1
27	A	801	CL0	CBA-CGA-O2A-C1
19	B	805	CLA	CBA-CGA-O2A-C1
19	B	814	CLA	CBA-CGA-O2A-C1
21	A	845	LHG	C26-C27-C28-C29
21	A	853	LHG	C35-C36-C37-C38
22	B	845	LMG	C11-C12-C13-C14
19	B	829	CLA	C13-C15-C16-C17
21	1	520	LHG	O6-C4-C5-C6
22	J	1104	LMG	C29-C28-O8-C9
26	B	854	DGD	CCB-CDB-CEB-CFB
21	2	517	LHG	C26-C27-C28-C29
19	B	829	CLA	C4-C3-C5-C6
19	3	306	CLA	C4C-C3C-CAC-CBC
21	B	843	LHG	C30-C31-C32-C33
19	A	838	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
26	B	854	DGD	O1A-C1A-O1G-C1G
20	2	515	CHL	C2A-CAA-CBA-CGA
19	A	808	CLA	C16-C17-C18-C20
19	B	819	CLA	C16-C17-C18-C20
19	A	855	CLA	C5-C6-C7-C8
19	A	805	CLA	CBA-CGA-O2A-C1
19	J	1101	CLA	CBA-CGA-O2A-C1
19	A	812	CLA	CBA-CGA-O2A-C1
19	A	837	CLA	CBA-CGA-O2A-C1
21	1	517	LHG	C2-C3-O3-P
19	L	304	CLA	C3A-C2A-CAA-CBA
19	A	821	CLA	C3A-C2A-CAA-CBA
19	3	315	CLA	C3A-C2A-CAA-CBA
19	B	817	CLA	C3A-C2A-CAA-CBA
19	3	312	CLA	C3A-C2A-CAA-CBA
19	A	828	CLA	C3A-C2A-CAA-CBA
19	4	318	CLA	C3A-C2A-CAA-CBA
19	L	303	CLA	C3A-C2A-CAA-CBA
19	2	511	CLA	C3A-C2A-CAA-CBA
19	A	807	CLA	C10-C11-C12-C13
24	2	523	LMT	C2-C1-O1'-C1'
26	J	1106	DGD	C2B-C3B-C4B-C5B
19	A	855	CLA	C15-C16-C17-C18
21	A	853	LHG	C27-C28-C29-C30
19	B	828	CLA	C8-C10-C11-C12
29	B	841	PQN	C23-C25-C26-C27
19	A	802	CLA	C8-C10-C11-C12
19	B	811	CLA	C10-C11-C12-C13
26	B	801	DGD	C1G-C2G-C3G-O3G
21	A	845	LHG	C4-C5-C6-O8
22	B	844	LMG	C7-C8-C9-O8
24	B	847	LMT	C3-C4-C5-C6
21	1	520	LHG	C26-C27-C28-C29
24	A	846	LMT	C4'-C5'-C6'-O6'
24	G	209	LMT	C2B-C1B-O1B-C4'
19	B	831	CLA	O1A-CGA-O2A-C1
19	A	806	CLA	C4-C3-C5-C6
19	4	315	CLA	C16-C17-C18-C19
19	A	812	CLA	C6-C7-C8-C9
20	4	316	CHL	C11-C12-C13-C14
19	A	825	CLA	C2-C3-C5-C6
19	A	833	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
21	A	853	LHG	C8-C7-O7-C5
21	2	517	LHG	O1-C1-C2-O2
21	1	520	LHG	O6-C4-C5-O7
19	G	201	CLA	O1A-CGA-O2A-C1
27	A	801	CL0	O1A-CGA-O2A-C1
21	A	853	LHG	C23-C24-C25-C26
21	B	842	LHG	C24-C23-O8-C6
19	B	807	CLA	C16-C17-C18-C19
19	J	1101	CLA	O1A-CGA-O2A-C1
19	2	509	CLA	O1A-CGA-O2A-C1
22	B	845	LMG	O1-C7-C8-O7
26	4	319	DGD	O1G-C1G-C2G-O2G
22	B	844	LMG	O7-C8-C9-O8
19	B	828	CLA	O1D-CGD-O2D-CED
22	2	522	LMG	O6-C5-C6-O5
19	A	839	CLA	C16-C17-C18-C19
19	3	305	CLA	C6-C7-C8-C9
19	A	812	CLA	C6-C7-C8-C10
24	G	209	LMT	C1-C2-C3-C4
19	A	813	CLA	C15-C16-C17-C18
19	A	811	CLA	C2-C1-O2A-CGA
19	B	829	CLA	C2-C1-O2A-CGA
21	1	517	LHG	C30-C31-C32-C33
19	1	513	CLA	C8-C10-C11-C12
19	L	304	CLA	C6-C7-C8-C9
19	2	510	CLA	C11-C10-C8-C9
19	B	830	CLA	C11-C12-C13-C14
19	A	825	CLA	C11-C12-C13-C14
19	4	306	CLA	C14-C13-C15-C16
19	A	833	CLA	C6-C7-C8-C9
19	B	822	CLA	C6-C7-C8-C9
19	A	806	CLA	C14-C13-C15-C16
19	B	810	CLA	C11-C12-C13-C14
19	B	818	CLA	C14-C13-C15-C16
19	A	809	CLA	C14-C13-C15-C16
19	H	1000	CLA	C5-C6-C7-C8
19	A	836	CLA	C4-C3-C5-C6
19	A	805	CLA	O1A-CGA-O2A-C1
19	B	808	CLA	C2A-CAA-CBA-CGA
19	A	855	CLA	C2A-CAA-CBA-CGA
19	A	807	CLA	C11-C12-C13-C14
18	B	850	BCR	C1-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
18	B	850	BCR	C5-C6-C7-C8
17	3	302	LUT	C1-C6-C7-C8
17	3	302	LUT	C5-C6-C7-C8
18	K	1005	BCR	C1-C6-C7-C8
18	K	1005	BCR	C5-C6-C7-C8
18	F	306	BCR	C23-C24-C25-C26
18	B	852	BCR	C23-C24-C25-C26
18	B	852	BCR	C23-C24-C25-C30
18	A	851	BCR	C1-C6-C7-C8
18	A	851	BCR	C5-C6-C7-C8
18	B	851	BCR	C23-C24-C25-C26
18	B	851	BCR	C23-C24-C25-C30
18	B	852	BCR	C36-C18-C19-C20
18	G	205	BCR	C11-C12-C13-C14
19	A	823	CLA	C5-C6-C7-C8
19	F	302	CLA	C5-C6-C7-C8
19	A	829	CLA	C10-C11-C12-C13
22	1	518	LMG	O7-C10-C11-C12
19	4	315	CLA	C16-C17-C18-C20
19	A	828	CLA	C16-C17-C18-C20
19	A	809	CLA	C16-C17-C18-C19
19	A	817	CLA	C3-C5-C6-C7
22	A	847	LMG	C31-C32-C33-C34
19	B	814	CLA	O1A-CGA-O2A-C1
19	A	829	CLA	C5-C6-C7-C8
21	A	853	LHG	O6-C4-C5-C6
21	B	842	LHG	O6-C4-C5-C6
19	2	514	CLA	O1D-CGD-O2D-CED
19	3	308	CLA	C11-C12-C13-C15
20	1	514	CHL	C11-C10-C8-C7
19	A	821	CLA	C11-C10-C8-C7
19	B	808	CLA	C6-C7-C8-C10
19	B	808	CLA	C11-C10-C8-C7
19	B	808	CLA	C11-C12-C13-C15
19	A	804	CLA	C6-C7-C8-C10
19	A	804	CLA	C11-C12-C13-C15
19	B	830	CLA	C11-C12-C13-C15
19	3	313	CLA	C6-C7-C8-C10
19	A	833	CLA	C6-C7-C8-C10
19	1	508	CLA	C6-C7-C8-C10
19	B	817	CLA	C6-C7-C8-C10
19	A	854	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
19	A	854	CLA	C12-C13-C15-C16
19	B	822	CLA	C11-C12-C13-C15
19	B	806	CLA	C12-C13-C15-C16
19	B	825	CLA	C11-C12-C13-C15
19	B	825	CLA	C12-C13-C15-C16
19	1	504	CLA	C6-C7-C8-C10
19	A	806	CLA	C11-C12-C13-C15
19	A	834	CLA	C6-C7-C8-C10
19	A	828	CLA	C6-C7-C8-C10
19	4	304	CLA	C6-C7-C8-C10
19	B	804	CLA	C11-C12-C13-C15
19	A	811	CLA	C6-C7-C8-C10
19	F	302	CLA	C12-C13-C15-C16
19	B	810	CLA	C11-C12-C13-C15
19	B	807	CLA	C6-C7-C8-C10
19	B	807	CLA	C11-C12-C13-C15
19	A	809	CLA	C6-C7-C8-C10
19	A	809	CLA	C12-C13-C15-C16
19	A	807	CLA	C6-C7-C8-C10
19	A	819	CLA	C11-C12-C13-C15
19	B	829	CLA	C11-C12-C13-C15
19	H	1000	CLA	C6-C7-C8-C10
19	A	829	CLA	C11-C12-C13-C15
19	A	805	CLA	C15-C16-C17-C18
18	1	503	BCR	C19-C20-C21-C22
29	B	841	PQN	C26-C27-C28-C30
19	B	819	CLA	C16-C17-C18-C19
21	B	843	LHG	C24-C23-O8-C6
21	A	853	LHG	C24-C25-C26-C27
26	4	319	DGD	C2B-C3B-C4B-C5B
19	4	315	CLA	C5-C6-C7-C8
19	A	803	CLA	C2A-CAA-CBA-CGA
19	A	833	CLA	C3-C5-C6-C7
19	A	837	CLA	O1A-CGA-O2A-C1
19	G	204	CLA	C16-C17-C18-C20
19	A	804	CLA	CBA-CGA-O2A-C1
19	1	513	CLA	CBA-CGA-O2A-C1
19	A	818	CLA	C11-C10-C8-C7
19	L	304	CLA	C10-C11-C12-C13
19	A	804	CLA	CAD-CBD-CGD-O2D
19	1	508	CLA	CAD-CBD-CGD-O2D
19	B	821	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
19	2	507	CLA	CAD-CBD-CGD-O2D
19	A	816	CLA	CAD-CBD-CGD-O2D
19	B	829	CLA	CAD-CBD-CGD-O2D
19	B	811	CLA	CAD-CBD-CGD-O2D
22	J	1104	LMG	C9-C8-O7-C10
21	A	853	LHG	O9-C7-O7-C5
21	A	845	LHG	C14-C15-C16-C17
24	B	847	LMT	C2-C3-C4-C5
19	A	834	CLA	C10-C11-C12-C13
19	B	804	CLA	C8-C10-C11-C12
26	4	319	DGD	C7A-C8A-C9A-CAA
19	A	840	CLA	O1A-CGA-O2A-C1
19	B	836	CLA	CBA-CGA-O2A-C1
19	B	838	CLA	CBA-CGA-O2A-C1
19	A	805	CLA	C4-C3-C5-C6
22	F	304	LMG	C15-C16-C17-C18
19	A	822	CLA	C5-C6-C7-C8
24	B	846	LMT	C3-C4-C5-C6
19	A	804	CLA	O1A-CGA-O2A-C1
19	B	820	CLA	O1A-CGA-O2A-C1
22	J	1104	LMG	O10-C28-O8-C9
21	2	517	LHG	C28-C29-C30-C31
24	G	208	LMT	C4'-C5'-C6'-O6'
19	B	831	CLA	C2A-CAA-CBA-CGA
19	B	823	CLA	C6-C7-C8-C9
29	B	841	PQN	C26-C27-C28-C29
19	3	308	CLA	CHA-CBD-CGD-O1D
19	3	308	CLA	CHA-CBD-CGD-O2D
19	B	824	CLA	CHA-CBD-CGD-O1D
19	A	830	CLA	CHA-CBD-CGD-O1D
19	2	510	CLA	CHA-CBD-CGD-O1D
19	2	510	CLA	CHA-CBD-CGD-O2D
19	A	825	CLA	CHA-CBD-CGD-O1D
19	A	825	CLA	CHA-CBD-CGD-O2D
24	J	1107	LMT	C2-C1-O1'-C1'
19	4	310	CLA	CHA-CBD-CGD-O1D
19	4	310	CLA	CHA-CBD-CGD-O2D
19	B	822	CLA	CHA-CBD-CGD-O2D
20	4	317	CHL	CHA-CBD-CGD-O2D
19	3	311	CLA	CHA-CBD-CGD-O1D
19	3	311	CLA	CHA-CBD-CGD-O2D
19	4	312	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
19	4	312	CLA	CHA-CBD-CGD-O2D
19	B	809	CLA	CHA-CBD-CGD-O1D
19	B	809	CLA	CHA-CBD-CGD-O2D
19	B	832	CLA	CHA-CBD-CGD-O1D
19	B	832	CLA	CHA-CBD-CGD-O2D
19	B	814	CLA	CHA-CBD-CGD-O1D
19	B	805	CLA	O1A-CGA-O2A-C1
19	A	812	CLA	O1A-CGA-O2A-C1
22	A	847	LMG	O1-C7-C8-O7
19	A	825	CLA	C10-C11-C12-C13
19	B	836	CLA	O1A-CGA-O2A-C1
21	A	853	LHG	C17-C18-C19-C20
20	1	521	CHL	C4C-C3C-CAC-CBC
19	A	825	CLA	C16-C17-C18-C19
19	3	313	CLA	C11-C12-C13-C15
19	B	818	CLA	C16-C17-C18-C19
21	B	843	LHG	C26-C27-C28-C29
19	B	811	CLA	C15-C16-C17-C18
19	B	840	CLA	C2-C3-C5-C6
22	4	322	LMG	C13-C14-C15-C16
19	2	510	CLA	C10-C11-C12-C13
19	A	804	CLA	C6-C7-C8-C9
19	3	313	CLA	C6-C7-C8-C9
19	B	812	CLA	C6-C7-C8-C9
21	B	843	LHG	C28-C29-C30-C31
27	A	801	CL0	CAA-CBA-CGA-O2A
18	A	849	BCR	C11-C12-C13-C35
22	2	519	LMG	C13-C14-C15-C16
19	J	1101	CLA	C2C-C3C-CAC-CBC
23	2	502	XAT	C27-C28-C29-C30
18	1	503	BCR	C17-C18-C19-C20
19	A	823	CLA	C1A-C2A-CAA-CBA
19	B	819	CLA	C1A-C2A-CAA-CBA
19	1	509	CLA	C1A-C2A-CAA-CBA
19	B	813	CLA	C1A-C2A-CAA-CBA
19	4	318	CLA	C1A-C2A-CAA-CBA
19	F	302	CLA	C1A-C2A-CAA-CBA
19	A	824	CLA	C1A-C2A-CAA-CBA
19	1	511	CLA	C1A-C2A-CAA-CBA
19	B	814	CLA	C1A-C2A-CAA-CBA
19	A	806	CLA	C16-C17-C18-C19
19	A	807	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
19	2	504	CLA	C11-C12-C13-C14
19	B	811	CLA	C13-C15-C16-C17
19	B	830	CLA	C2-C1-O2A-CGA
19	B	828	CLA	C2-C1-O2A-CGA
19	4	308	CLA	C2-C1-O2A-CGA
19	2	507	CLA	C2-C1-O2A-CGA
19	A	831	CLA	C2-C1-O2A-CGA
19	A	833	CLA	CBA-CGA-O2A-C1
24	J	1107	LMT	C5'-C4'-O1B-C1B
18	F	306	BCR	C13-C14-C15-C16
21	1	517	LHG	C3-O3-P-O6
21	1	520	LHG	C4-O6-P-O3
21	B	843	LHG	C4-O6-P-O3
19	1	510	CLA	C2C-C3C-CAC-CBC
19	A	823	CLA	C4-C3-C5-C6
19	B	825	CLA	C10-C11-C12-C13
19	1	513	CLA	O1A-CGA-O2A-C1
21	B	843	LHG	O10-C23-O8-C6
19	B	821	CLA	O1A-CGA-O2A-C1
21	2	517	LHG	C4-O6-P-O5
21	A	845	LHG	C4-O6-P-O4
21	A	853	LHG	C3-O3-P-O5
21	A	853	LHG	C4-O6-P-O5
21	1	520	LHG	C3-O3-P-O4
21	1	520	LHG	C3-O3-P-O5
21	B	843	LHG	C3-O3-P-O5
19	B	820	CLA	C16-C17-C18-C20
19	A	827	CLA	C16-C17-C18-C20
19	A	839	CLA	C16-C17-C18-C20
22	G	206	LMG	C29-C30-C31-C32
19	B	828	CLA	C13-C15-C16-C17
19	B	805	CLA	C5-C6-C7-C8
22	1	518	LMG	C10-C11-C12-C13
19	3	308	CLA	C3-C5-C6-C7
24	G	209	LMT	O5B-C1B-O1B-C4'
19	A	811	CLA	C16-C17-C18-C20
24	2	523	LMT	C3-C4-C5-C6
19	3	311	CLA	CAD-CBD-CGD-O1D
19	4	312	CLA	CAD-CBD-CGD-O1D
19	A	836	CLA	C2-C3-C5-C6
19	J	1105	CLA	CAD-CBD-CGD-O1D
19	B	814	CLA	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
19	B	835	CLA	CAD-CBD-CGD-O1D
19	B	812	CLA	C5-C6-C7-C8
19	B	827	CLA	C10-C11-C12-C13
19	B	838	CLA	O1A-CGA-O2A-C1
22	B	844	LMG	C12-C13-C14-C15
19	3	309	CLA	C6-C7-C8-C9
19	B	815	CLA	C4-C3-C5-C6
19	A	805	CLA	C11-C10-C8-C7
19	B	820	CLA	C12-C13-C15-C16
17	3	302	LUT	C25-C26-C27-C28
19	A	839	CLA	C11-C12-C13-C15
19	4	315	CLA	C11-C12-C13-C15
19	L	305	CLA	C3A-C2A-CAA-CBA
19	A	813	CLA	C6-C7-C8-C10
19	4	308	CLA	C11-C10-C8-C7
21	A	853	LHG	O6-C4-C5-O7
21	B	842	LHG	O6-C4-C5-O7
29	B	841	PQN	C16-C17-C18-C20
29	B	841	PQN	C22-C23-C25-C26
19	J	1101	CLA	C11-C12-C13-C15
19	A	802	CLA	C11-C10-C8-C7
19	B	831	CLA	C6-C7-C8-C10
19	A	841	CLA	C11-C10-C8-C7
19	B	812	CLA	C6-C7-C8-C10
19	B	818	CLA	C11-C10-C8-C7
17	J	1109	LUT	C25-C26-C27-C28
19	B	827	CLA	C6-C7-C8-C10
18	B	850	BCR	C9-C10-C11-C12
18	3	303	BCR	C19-C20-C21-C22
18	A	848	BCR	C19-C20-C21-C22
18	I	101	BCR	C19-C20-C21-C22
19	A	833	CLA	O1A-CGA-O2A-C1
19	A	820	CLA	C2A-CAA-CBA-CGA
19	B	818	CLA	C16-C17-C18-C20
22	B	845	LMG	O1-C7-C8-C9
22	2	519	LMG	C7-C8-C9-O8
22	1	518	LMG	C7-C8-C9-O8
22	F	305	LMG	O7-C8-C9-O8
21	A	845	LHG	O7-C5-C6-O8
22	2	519	LMG	O7-C8-C9-O8
21	1	517	LHG	O7-C5-C6-O8
21	B	843	LHG	O7-C5-C6-O8

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Mol	Chain	Res	Type	Atoms
22	1	518	LMG	O7-C8-C9-O8
19	G	201	CLA	C15-C16-C17-C18
19	4	304	CLA	C3-C5-C6-C7
21	2	517	LHG	C2-C3-O3-P
20	2	516	CHL	C2-C3-C5-C6
19	B	840	CLA	C15-C16-C17-C18
19	A	838	CLA	C11-C12-C13-C14
19	B	815	CLA	C11-C10-C8-C9
19	A	804	CLA	C14-C13-C15-C16
19	B	817	CLA	C6-C7-C8-C9
19	A	839	CLA	C14-C13-C15-C16
19	A	854	CLA	C11-C12-C13-C14
19	B	822	CLA	C11-C12-C13-C14
19	A	855	CLA	C11-C12-C13-C14
19	A	802	CLA	C11-C12-C13-C14
19	G	204	CLA	C11-C12-C13-C14
19	A	807	CLA	C6-C7-C8-C9
20	2	526	CHL	C11-C12-C13-C14
19	A	819	CLA	C6-C7-C8-C9
19	A	819	CLA	C11-C12-C13-C14
19	B	827	CLA	C6-C7-C8-C9
19	B	823	CLA	C6-C7-C8-C10
19	A	838	CLA	C5-C6-C7-C8
19	A	827	CLA	C8-C10-C11-C12
21	A	845	LHG	C17-C18-C19-C20
19	A	802	CLA	C5-C6-C7-C8
18	2	503	BCR	C18-C19-C20-C21
18	K	1005	BCR	C18-C19-C20-C21
18	B	851	BCR	C18-C19-C20-C21
19	B	820	CLA	C16-C17-C18-C19
19	J	1101	CLA	C4C-C3C-CAC-CBC
17	3	302	LUT	C7-C8-C9-C10
22	2	519	LMG	O7-C10-C11-C12
19	A	823	CLA	C2-C3-C5-C6
19	4	304	CLA	C2-C3-C5-C6
19	1	508	CLA	C5-C6-C7-C8
21	1	517	LHG	C13-C14-C15-C16
21	2	517	LHG	O8-C23-C24-C25
20	1	514	CHL	C5-C6-C7-C8
19	A	832	CLA	C8-C10-C11-C12
26	B	801	DGD	C1G-C2G-O2G-C1B
22	4	322	LMG	C9-C8-O7-C10

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Mol	Chain	Res	Type	Atoms
22	2	519	LMG	C7-C8-O7-C10
22	2	519	LMG	C9-C8-O7-C10
22	G	210	LMG	C9-C8-O7-C10
19	1	507	CLA	C2A-CAA-CBA-CGA
19	B	814	CLA	C2A-CAA-CBA-CGA
19	A	830	CLA	C2-C1-O2A-CGA
19	B	831	CLA	C2-C1-O2A-CGA
19	A	829	CLA	C2-C1-O2A-CGA
24	2	523	LMT	O1'-C1-C2-C3
20	1	514	CHL	C11-C12-C13-C14
20	4	314	CHL	C4C-C3C-CAC-CBC
19	B	823	CLA	CAA-CBA-CGA-O2A
19	B	808	CLA	C13-C15-C16-C17
17	1	502	LUT	C1-C6-C7-C8
17	1	502	LUT	C5-C6-C7-C8
18	F	306	BCR	C23-C24-C25-C30
18	L	306	BCR	C23-C24-C25-C26
18	G	205	BCR	C23-C24-C25-C30
19	A	805	CLA	C2-C3-C5-C6
19	1	513	CLA	C10-C11-C12-C13
19	B	835	CLA	C6-C7-C8-C9
24	4	320	LMT	C1-C2-C3-C4
22	G	210	LMG	O6-C1-O1-C7
19	2	509	CLA	C2A-CAA-CBA-CGA
19	A	824	CLA	C2A-CAA-CBA-CGA
19	A	807	CLA	C2A-CAA-CBA-CGA
18	A	852	BCR	C11-C10-C9-C8
18	J	1108	BCR	C11-C10-C9-C8
22	G	210	LMG	C2-C1-O1-C7
21	A	845	LHG	C3-O3-P-O6
21	B	842	LHG	C3-O3-P-O6
21	1	517	LHG	C4-O6-P-O3
22	4	322	LMG	C4-C5-C6-O5
19	G	201	CLA	C16-C17-C18-C20
26	J	1106	DGD	C6A-C7A-C8A-C9A
26	B	854	DGD	O1G-C1G-C2G-C3G
21	A	853	LHG	C4-C5-C6-O8
19	K	1002	CLA	C6-C7-C8-C10
19	A	842	CLA	C11-C10-C8-C7
19	A	802	CLA	C6-C7-C8-C10
19	B	838	CLA	C6-C7-C8-C10
19	B	805	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
19	B	829	CLA	C2-C3-C5-C6
19	A	803	CLA	C11-C10-C8-C7
21	A	853	LHG	C10-C11-C12-C13
19	3	308	CLA	C6-C7-C8-C9
19	A	805	CLA	C11-C10-C8-C9
19	K	1002	CLA	C11-C10-C8-C9
19	B	830	CLA	C11-C10-C8-C9
19	B	825	CLA	C11-C12-C13-C14
19	A	806	CLA	C11-C12-C13-C14
29	B	841	PQN	C16-C17-C18-C19
29	B	841	PQN	C24-C23-C25-C26
19	J	1101	CLA	C11-C12-C13-C14
22	2	518	LMG	O7-C10-C11-C12
19	B	804	CLA	C11-C10-C8-C9
19	A	841	CLA	C11-C10-C8-C9
19	A	824	CLA	C14-C13-C15-C16
19	A	803	CLA	C11-C10-C8-C9
19	A	803	CLA	C10-C11-C12-C13
18	B	802	BCR	C9-C10-C11-C12
18	F	306	BCR	C19-C20-C21-C22
19	B	833	CLA	C11-C12-C13-C14
19	A	806	CLA	C16-C17-C18-C20
19	1	507	CLA	C16-C17-C18-C20
19	G	204	CLA	C16-C17-C18-C19
24	B	855	LMT	C3-C4-C5-C6
19	A	814	CLA	C10-C11-C12-C13
19	A	831	CLA	C13-C15-C16-C17
18	G	205	BCR	C36-C18-C19-C20
18	A	848	BCR	C36-C18-C19-C20
26	J	1106	DGD	C1B-C2B-C3B-C4B
19	F	302	CLA	C2-C3-C5-C6
19	3	309	CLA	C6-C7-C8-C10
19	A	828	CLA	C16-C17-C18-C19
26	J	1106	DGD	C3B-C4B-C5B-C6B
18	2	503	BCR	C15-C16-C17-C18
17	4	302	LUT	C29-C30-C31-C32
18	B	849	BCR	C19-C20-C21-C22
18	A	852	BCR	C19-C20-C21-C22
18	B	852	BCR	C13-C14-C15-C16
18	A	851	BCR	C9-C10-C11-C12
19	B	840	CLA	CAA-CBA-CGA-O2A
20	2	516	CHL	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
19	G	202	CLA	C4-C3-C5-C6
19	F	302	CLA	C4-C3-C5-C6
19	1	508	CLA	C13-C15-C16-C17
21	1	517	LHG	C32-C33-C34-C35
19	B	825	CLA	C2-C1-O2A-CGA
19	A	812	CLA	C2-C1-O2A-CGA
19	G	204	CLA	C15-C16-C17-C18
19	2	506	CLA	C16-C17-C18-C19
22	2	518	LMG	O9-C10-C11-C12
19	A	834	CLA	C2A-CAA-CBA-CGA
22	G	206	LMG	C13-C14-C15-C16
19	A	830	CLA	C3A-C2A-CAA-CBA
19	B	826	CLA	C3A-C2A-CAA-CBA
27	A	801	CL0	C3A-C2A-CAA-CBA
19	B	819	CLA	C3A-C2A-CAA-CBA
19	B	814	CLA	C13-C15-C16-C17
18	A	856	BCR	C13-C14-C15-C16
22	A	847	LMG	C15-C16-C17-C18
19	B	825	CLA	C4-C3-C5-C6
19	A	808	CLA	C6-C7-C8-C9
19	A	808	CLA	C11-C10-C8-C9
19	B	824	CLA	C11-C10-C8-C9
29	A	844	PQN	C21-C22-C23-C24
19	A	827	CLA	C11-C10-C8-C9
19	A	833	CLA	C14-C13-C15-C16
19	A	822	CLA	C11-C10-C8-C9
19	A	813	CLA	C6-C7-C8-C9
19	B	828	CLA	C11-C12-C13-C14
19	A	834	CLA	C11-C10-C8-C9
19	B	805	CLA	C14-C13-C15-C16
19	B	811	CLA	C6-C7-C8-C9
19	B	811	CLA	C11-C12-C13-C14
19	A	827	CLA	C16-C17-C18-C19
19	B	820	CLA	C15-C16-C17-C18
21	B	843	LHG	C29-C30-C31-C32
18	B	802	BCR	C16-C17-C18-C36
18	B	850	BCR	C11-C10-C9-C34
18	F	306	BCR	C16-C17-C18-C36
18	B	849	BCR	C35-C13-C14-C15
18	B	849	BCR	C16-C17-C18-C36
18	L	302	BCR	C16-C17-C18-C36
18	L	302	BCR	C20-C21-C22-C37

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Mol	Chain	Res	Type	Atoms
18	G	205	BCR	C16-C17-C18-C36
18	A	852	BCR	C11-C10-C9-C34
18	A	852	BCR	C16-C17-C18-C36
18	3	304	BCR	C16-C17-C18-C36
18	I	101	BCR	C35-C13-C14-C15
18	A	850	BCR	C16-C17-C18-C36
17	3	301	LUT	C21-C26-C27-C28
18	B	851	BCR	C11-C10-C9-C34
26	B	854	DGD	O6D-C5D-C6D-O5D
19	B	833	CLA	C3-C5-C6-C7
19	1	516	CLA	O1A-CGA-O2A-C1
19	A	837	CLA	O1D-CGD-O2D-CED
19	A	811	CLA	C16-C17-C18-C19
19	B	835	CLA	C6-C7-C8-C10
20	2	526	CHL	O2A-C1-C2-C3
19	A	834	CLA	C15-C16-C17-C18
19	B	803	CLA	C5-C6-C7-C8
26	B	801	DGD	C3G-C2G-O2G-C1B
22	F	305	LMG	C7-C8-O7-C10
26	4	319	DGD	C3G-C2G-O2G-C1B
26	J	1106	DGD	C1G-C2G-O2G-C1B
26	G	207	DGD	C1G-C2G-O2G-C1B
19	A	804	CLA	C4-C3-C5-C6
19	B	820	CLA	C4-C3-C5-C6
19	B	827	CLA	C4-C3-C5-C6
19	L	304	CLA	C1A-C2A-CAA-CBA
19	3	315	CLA	C1A-C2A-CAA-CBA
19	B	826	CLA	C1A-C2A-CAA-CBA
27	A	801	CL0	C1A-C2A-CAA-CBA
19	A	828	CLA	C1A-C2A-CAA-CBA
19	K	1001	CLA	C1A-C2A-CAA-CBA
19	A	821	CLA	C12-C13-C15-C16
19	1	508	CLA	C12-C13-C15-C16
19	B	840	CLA	C11-C12-C13-C15
19	A	806	CLA	C6-C7-C8-C10
19	A	834	CLA	C12-C13-C15-C16
19	1	507	CLA	C11-C12-C13-C15
19	B	807	CLA	C12-C13-C15-C16
19	A	824	CLA	C11-C12-C13-C15
19	B	803	CLA	C11-C12-C13-C15
20	2	526	CHL	C6-C7-C8-C10
19	A	819	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
19	B	814	CLA	C11-C12-C13-C15
19	B	829	CLA	C11-C10-C8-C7
19	A	813	CLA	C3-C5-C6-C7
18	I	102	BCR	C19-C20-C21-C22
22	A	847	LMG	C14-C15-C16-C17
24	2	523	LMT	C11-C10-C9-C8
19	A	805	CLA	C5-C6-C7-C8
19	A	854	CLA	C2A-CAA-CBA-CGA
19	4	307	CLA	C2A-CAA-CBA-CGA
19	A	830	CLA	C10-C11-C12-C13
19	A	802	CLA	C15-C16-C17-C18
19	1	513	CLA	C4-C3-C5-C6
19	B	814	CLA	C4-C3-C5-C6
19	F	303	CLA	C10-C11-C12-C13
19	B	815	CLA	C2-C3-C5-C6
19	B	824	CLA	C5-C6-C7-C8
19	A	837	CLA	CBD-CGD-O2D-CED
19	A	835	CLA	C6-C7-C8-C10
18	B	802	BCR	C16-C17-C18-C19
18	B	850	BCR	C11-C10-C9-C8
18	F	306	BCR	C16-C17-C18-C19
18	B	849	BCR	C12-C13-C14-C15
18	B	849	BCR	C16-C17-C18-C19
18	L	302	BCR	C16-C17-C18-C19
18	L	302	BCR	C20-C21-C22-C23
18	G	205	BCR	C16-C17-C18-C19
18	A	852	BCR	C16-C17-C18-C19
18	3	304	BCR	C16-C17-C18-C19
18	I	101	BCR	C12-C13-C14-C15
18	A	850	BCR	C16-C17-C18-C19
19	B	816	CLA	CBA-CGA-O2A-C1
18	A	856	BCR	C19-C20-C21-C22
19	A	832	CLA	C16-C17-C18-C19
19	4	306	CLA	C16-C17-C18-C20
19	B	828	CLA	C16-C17-C18-C19
19	1	507	CLA	C16-C17-C18-C19
19	A	830	CLA	C15-C16-C17-C18
19	B	809	CLA	C4-C3-C5-C6
19	A	819	CLA	C4-C3-C5-C6
19	A	804	CLA	C2-C1-O2A-CGA
19	1	504	CLA	C2-C1-O2A-CGA
19	A	836	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
19	B	825	CLA	C2-C3-C5-C6
26	4	319	DGD	O1G-C1A-C2A-C3A
19	1	508	CLA	C11-C10-C8-C9
19	4	311	CLA	CAA-CBA-CGA-O2A
26	G	207	DGD	C3A-C4A-C5A-C6A
19	B	838	CLA	C2A-CAA-CBA-CGA
19	2	504	CLA	C2A-CAA-CBA-CGA
19	B	808	CLA	C16-C17-C18-C20
19	B	831	CLA	C11-C12-C13-C14
19	1	516	CLA	CBA-CGA-O2A-C1
19	B	816	CLA	O1A-CGA-O2A-C1
17	4	302	LUT	C1-C6-C7-C8
18	3	303	BCR	C23-C24-C25-C30
18	A	852	BCR	C23-C24-C25-C30
18	J	1108	BCR	C23-C24-C25-C30
30	F	301	ZEX	C1-C6-C7-C8
26	J	1106	DGD	C7A-C8A-C9A-CAA
19	3	308	CLA	CAA-CBA-CGA-O2A
19	B	803	CLA	CAA-CBA-CGA-O2A
19	A	829	CLA	CAA-CBA-CGA-O2A
19	B	826	CLA	C8-C10-C11-C12
26	B	801	DGD	C3A-C4A-C5A-C6A
18	3	304	BCR	C7-C8-C9-C10
21	1	520	LHG	C25-C26-C27-C28
19	2	508	CLA	C5-C6-C7-C8
19	B	819	CLA	CAA-CBA-CGA-O2A
19	2	507	CLA	C5-C6-C7-C8
22	2	518	LMG	C4-C5-C6-O5
22	G	210	LMG	C4-C5-C6-O5
20	4	314	CHL	C2A-CAA-CBA-CGA
19	B	840	CLA	C3-C5-C6-C7
21	B	842	LHG	O10-C23-O8-C6
19	B	816	CLA	C4-C3-C5-C6
19	A	822	CLA	C4-C3-C5-C6
19	A	812	CLA	C4-C3-C5-C6
19	1	513	CLA	C2-C3-C5-C6
19	B	827	CLA	C2-C3-C5-C6
19	B	810	CLA	C8-C10-C11-C12
26	B	801	DGD	O1G-C1A-C2A-C3A
19	B	816	CLA	C6-C7-C8-C9
20	2	513	CHL	C2-C1-O2A-CGA
26	4	319	DGD	O2G-C2G-C3G-O3G

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Mol	Chain	Res	Type	Atoms
19	2	506	CLA	C8-C10-C11-C12
19	3	313	CLA	CAA-CBA-CGA-O2A
24	B	846	LMT	C1-C2-C3-C4
19	2	506	CLA	C16-C17-C18-C20
19	A	827	CLA	CBA-CGA-O2A-C1
19	A	832	CLA	C4-C3-C5-C6
19	A	813	CLA	C4-C3-C5-C6
19	A	828	CLA	C4-C3-C5-C6
19	A	806	CLA	C2-C3-C5-C6
19	A	819	CLA	C2-C3-C5-C6
19	B	814	CLA	C2-C3-C5-C6
19	B	819	CLA	CBA-CGA-O2A-C1
21	A	853	LHG	O8-C23-C24-C25
19	B	815	CLA	C11-C12-C13-C14
19	K	1002	CLA	C6-C7-C8-C9
19	4	315	CLA	C11-C12-C13-C14
19	A	806	CLA	C6-C7-C8-C9
29	B	841	PQN	C19-C18-C20-C21
19	A	802	CLA	C6-C7-C8-C9
19	A	834	CLA	C14-C13-C15-C16
19	A	828	CLA	C11-C10-C8-C9
19	1	507	CLA	C11-C12-C13-C14
19	A	817	CLA	C11-C12-C13-C14
19	A	824	CLA	C11-C12-C13-C14
19	B	809	CLA	C14-C13-C15-C16
20	2	526	CHL	C6-C7-C8-C9
20	2	526	CHL	C5-C6-C7-C8
19	1	508	CLA	C3A-C2A-CAA-CBA
19	2	514	CLA	C3A-C2A-CAA-CBA
19	A	829	CLA	C3A-C2A-CAA-CBA
19	3	308	CLA	CAD-CBD-CGD-O2D
22	F	305	LMG	C9-C8-O7-C10
19	2	510	CLA	CAD-CBD-CGD-O2D
19	B	830	CLA	CAD-CBD-CGD-O2D
19	A	823	CLA	CAD-CBD-CGD-O2D
26	G	207	DGD	C3G-C2G-O2G-C1B
19	1	507	CLA	CAD-CBD-CGD-O2D
20	3	314	CHL	CAD-CBD-CGD-O2D
19	2	504	CLA	C10-C11-C12-C13
21	A	845	LHG	C19-C20-C21-C22
22	F	304	LMG	C12-C13-C14-C15
19	4	307	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
19	A	829	CLA	C4-C3-C5-C6
19	A	827	CLA	CAA-CBA-CGA-O2A
18	A	849	BCR	C11-C12-C13-C14
17	1	502	LUT	C7-C8-C9-C10
18	G	205	BCR	C17-C18-C19-C20
18	J	1108	BCR	C17-C18-C19-C20
18	B	852	BCR	C17-C18-C19-C20
18	A	856	BCR	C7-C8-C9-C10
18	A	848	BCR	C17-C18-C19-C20
18	B	853	BCR	C17-C18-C19-C20
19	J	1102	CLA	C2A-CAA-CBA-CGA
26	4	319	DGD	C1G-C2G-C3G-O3G
26	G	207	DGD	O6D-C5D-C6D-O5D
19	G	201	CLA	CAA-CBA-CGA-O2A
21	B	843	LHG	C13-C14-C15-C16
19	1	508	CLA	C10-C11-C12-C13
19	2	509	CLA	CAA-CBA-CGA-O2A
19	A	824	CLA	C15-C16-C17-C18
19	4	308	CLA	C11-C12-C13-C15
19	2	507	CLA	C16-C17-C18-C19
19	B	824	CLA	CHA-CBD-CGD-O2D
19	1	516	CLA	CHA-CBD-CGD-O2D
19	B	816	CLA	CHA-CBD-CGD-O2D
19	B	823	CLA	CHA-CBD-CGD-O1D
19	B	823	CLA	CHA-CBD-CGD-O2D
19	A	813	CLA	CHA-CBD-CGD-O1D
19	A	813	CLA	CHA-CBD-CGD-O2D
19	L	301	CLA	CHA-CBD-CGD-O1D
19	L	301	CLA	CHA-CBD-CGD-O2D
20	4	317	CHL	CHA-CBD-CGD-O1D
19	B	836	CLA	CHA-CBD-CGD-O1D
19	B	836	CLA	CHA-CBD-CGD-O2D
19	G	202	CLA	CHA-CBD-CGD-O1D
19	G	202	CLA	CHA-CBD-CGD-O2D
19	1	504	CLA	CHA-CBD-CGD-O1D
19	1	504	CLA	CHA-CBD-CGD-O2D
20	1	521	CHL	CHA-CBD-CGD-O2D
19	A	828	CLA	CHA-CBD-CGD-O2D
19	B	805	CLA	CHA-CBD-CGD-O1D
19	B	805	CLA	CHA-CBD-CGD-O2D
19	A	811	CLA	CHA-CBD-CGD-O1D
19	A	811	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
19	4	318	CLA	CHA-CBD-CGD-O1D
19	4	318	CLA	CHA-CBD-CGD-O2D
19	1	506	CLA	CHA-CBD-CGD-O1D
19	1	506	CLA	CHA-CBD-CGD-O2D
19	A	837	CLA	CHA-CBD-CGD-O1D
19	A	837	CLA	CHA-CBD-CGD-O2D
20	2	512	CHL	CHA-CBD-CGD-O1D
19	2	506	CLA	CHA-CBD-CGD-O2D
19	A	819	CLA	CHA-CBD-CGD-O1D
19	A	819	CLA	CHA-CBD-CGD-O2D
19	B	827	CLA	CHA-CBD-CGD-O1D
19	B	827	CLA	CHA-CBD-CGD-O2D
19	B	814	CLA	CHA-CBD-CGD-O2D
19	2	511	CLA	CHA-CBD-CGD-O1D
19	2	511	CLA	CHA-CBD-CGD-O2D
19	H	1000	CLA	CHA-CBD-CGD-O1D
19	H	1000	CLA	CHA-CBD-CGD-O2D
19	A	822	CLA	CAA-CBA-CGA-O2A
19	B	839	CLA	CAA-CBA-CGA-O2A
18	B	851	BCR	C11-C10-C9-C8
19	A	828	CLA	CAA-CBA-CGA-O2A
22	J	1104	LMG	C32-C33-C34-C35
19	B	836	CLA	C5-C6-C7-C8
19	B	836	CLA	CAA-CBA-CGA-O2A
19	B	834	CLA	CAA-CBA-CGA-O2A
19	B	809	CLA	C2-C3-C5-C6
19	B	827	CLA	C11-C12-C13-C15
19	A	829	CLA	C2-C3-C5-C6
19	B	808	CLA	C16-C17-C18-C19
19	A	835	CLA	C6-C7-C8-C9
19	3	316	CLA	CAA-CBA-CGA-O2A
19	A	814	CLA	CAA-CBA-CGA-O2A
19	A	839	CLA	C11-C12-C13-C14
19	B	840	CLA	C11-C12-C13-C14
19	4	308	CLA	C11-C10-C8-C9
19	B	819	CLA	C11-C10-C8-C9
19	B	831	CLA	C6-C7-C8-C9
22	G	210	LMG	O8-C28-C29-C30
19	B	803	CLA	C11-C12-C13-C14
19	B	829	CLA	C11-C10-C8-C9
17	3	302	LUT	C29-C30-C31-C32
17	J	1109	LUT	C33-C34-C35-C15

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Mol	Chain	Res	Type	Atoms
21	A	853	LHG	C31-C32-C33-C34
19	A	827	CLA	O1A-CGA-O2A-C1
20	1	514	CHL	C2A-CAA-CBA-CGA
19	3	305	CLA	C2A-CAA-CBA-CGA
21	A	853	LHG	C30-C31-C32-C33
26	J	1106	DGD	C7B-C8B-C9B-CAB
19	K	1002	CLA	CAA-CBA-CGA-O2A
19	A	807	CLA	CAA-CBA-CGA-O2A
22	F	304	LMG	C36-C37-C38-C39
19	B	831	CLA	C11-C12-C13-C15
19	A	830	CLA	C4-C3-C5-C6
19	B	830	CLA	C4-C3-C5-C6
19	A	821	CLA	C1A-C2A-CAA-CBA
19	A	830	CLA	C1A-C2A-CAA-CBA
19	B	820	CLA	C1A-C2A-CAA-CBA
19	1	508	CLA	C1A-C2A-CAA-CBA
20	1	521	CHL	C1A-C2A-CAA-CBA
19	A	836	CLA	C1A-C2A-CAA-CBA
19	2	506	CLA	C1A-C2A-CAA-CBA
20	2	526	CHL	C1A-C2A-CAA-CBA
19	4	307	CLA	C1A-C2A-CAA-CBA
19	A	827	CLA	CAA-CBA-CGA-O1A
20	1	512	CHL	CAA-CBA-CGA-O2A
19	A	855	CLA	C2-C1-O2A-CGA
19	A	807	CLA	CAA-CBA-CGA-O1A
22	1	518	LMG	O9-C10-C11-C12
19	B	838	CLA	CAA-CBA-CGA-O2A
19	A	819	CLA	C2A-CAA-CBA-CGA
24	G	209	LMT	C5-C6-C7-C8
19	A	813	CLA	C16-C17-C18-C19
19	B	822	CLA	C16-C17-C18-C19
19	A	822	CLA	CAA-CBA-CGA-O1A
19	A	808	CLA	C15-C16-C17-C18
19	1	508	CLA	CAA-CBA-CGA-O2A
21	A	845	LHG	O7-C7-C8-C9
21	1	517	LHG	O8-C23-C24-C25
19	A	818	CLA	CAA-CBA-CGA-O2A
19	K	1002	CLA	CAA-CBA-CGA-O1A
19	G	201	CLA	CAA-CBA-CGA-O1A
19	G	202	CLA	C2-C3-C5-C6
19	B	803	CLA	C13-C15-C16-C17
21	A	845	LHG	C3-O3-P-O5

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Mol	Chain	Res	Type	Atoms
21	1	517	LHG	C3-O3-P-O5
21	1	517	LHG	C4-O6-P-O5
19	A	814	CLA	CAA-CBA-CGA-O1A
18	G	205	BCR	C23-C24-C25-C26
18	I	101	BCR	C23-C24-C25-C30
30	F	301	ZEX	C5-C6-C7-C8
19	B	804	CLA	C15-C16-C17-C18
19	B	839	CLA	CAA-CBA-CGA-O1A
19	2	509	CLA	CAA-CBA-CGA-O1A
22	J	1104	LMG	O7-C10-C11-C12
19	B	819	CLA	C10-C11-C12-C13
21	A	853	LHG	O10-C23-C24-C25
20	2	516	CHL	C3-C5-C6-C7
19	A	821	CLA	C5-C6-C7-C8
19	B	823	CLA	C4-C3-C5-C6
19	A	804	CLA	C2-C3-C5-C6
20	2	516	CHL	CAD-CBD-CGD-O1D
19	B	808	CLA	CAD-CBD-CGD-O1D
19	A	833	CLA	CAD-CBD-CGD-O1D
19	4	305	CLA	CAD-CBD-CGD-O1D
19	A	854	CLA	CAD-CBD-CGD-O1D
19	A	855	CLA	CAD-CBD-CGD-O1D
19	A	828	CLA	CAD-CBD-CGD-O1D
19	A	820	CLA	CAD-CBD-CGD-O1D
19	A	836	CLA	CAD-CBD-CGD-O1D
19	2	506	CLA	CAD-CBD-CGD-O1D
19	1	511	CLA	CAD-CBD-CGD-O1D
19	B	827	CLA	CAD-CBD-CGD-O1D
19	A	831	CLA	CAD-CBD-CGD-O1D
19	B	826	CLA	O1A-CGA-O2A-C1
19	B	834	CLA	CAA-CBA-CGA-O1A
19	A	837	CLA	CAA-CBA-CGA-O2A
19	B	808	CLA	C6-C7-C8-C9
19	4	306	CLA	C11-C12-C13-C14
19	B	817	CLA	C11-C10-C8-C9
19	A	839	CLA	C11-C10-C8-C9
19	B	806	CLA	C6-C7-C8-C9
19	1	504	CLA	C14-C13-C15-C16
20	2	526	CHL	C14-C13-C15-C16
19	A	819	CLA	C11-C10-C8-C9
19	B	827	CLA	C11-C12-C13-C14
19	B	814	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
19	4	315	CLA	C4C-C3C-CAC-CBC
19	F	302	CLA	C3-C5-C6-C7
19	L	304	CLA	CAA-CBA-CGA-O2A
22	J	1103	LMG	O7-C10-C11-C12
21	1	520	LHG	O8-C23-C24-C25
19	B	805	CLA	C10-C11-C12-C13
22	A	847	LMG	C12-C13-C14-C15
19	B	838	CLA	CAA-CBA-CGA-O1A
22	A	847	LMG	C32-C33-C34-C35
19	A	839	CLA	C2A-CAA-CBA-CGA
19	4	309	CLA	CAA-CBA-CGA-O2A
22	B	845	LMG	O7-C10-C11-C12
19	L	305	CLA	CAA-CBA-CGA-O2A
22	F	304	LMG	O7-C10-C11-C12
19	A	824	CLA	CAA-CBA-CGA-O2A
19	B	811	CLA	CAA-CBA-CGA-O2A
19	3	316	CLA	CAA-CBA-CGA-O1A
24	A	846	LMT	C2-C3-C4-C5
19	B	828	CLA	C16-C17-C18-C20
19	B	820	CLA	C8-C10-C11-C12
26	B	854	DGD	C9A-CAA-CBA-CCA
22	G	206	LMG	C21-C22-C23-C24
19	A	804	CLA	C12-C13-C15-C16
19	B	820	CLA	C2-C3-C5-C6
19	A	839	CLA	C11-C10-C8-C7
19	A	806	CLA	C11-C10-C8-C7
19	A	855	CLA	C11-C12-C13-C15
19	B	805	CLA	C6-C7-C8-C10
19	1	507	CLA	C12-C13-C15-C16
20	2	526	CHL	C12-C13-C15-C16
19	B	836	CLA	CAA-CBA-CGA-O1A
21	1	517	LHG	O10-C23-C24-C25
19	A	805	CLA	CAA-CBA-CGA-O2A
19	B	806	CLA	CAA-CBA-CGA-O2A
19	G	204	CLA	CAA-CBA-CGA-O2A
19	A	820	CLA	CAA-CBA-CGA-O2A
21	1	520	LHG	O7-C7-C8-C9
19	2	504	CLA	CAA-CBA-CGA-O2A
18	A	850	BCR	C17-C18-C19-C20
19	1	508	CLA	CAA-CBA-CGA-O1A
21	A	845	LHG	O9-C7-C8-C9
19	A	824	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
19	B	811	CLA	CAA-CBA-CGA-O1A
18	B	856	BCR	C9-C10-C11-C12
18	B	856	BCR	C19-C20-C21-C22
18	B	851	BCR	C9-C10-C11-C12
24	B	855	LMT	C2-C1-O1'-C1'
19	A	830	CLA	CAA-CBA-CGA-O2A
19	A	825	CLA	C5-C6-C7-C8
19	A	827	CLA	C13-C15-C16-C17
19	B	828	CLA	C10-C11-C12-C13
19	L	305	CLA	CAA-CBA-CGA-O1A
27	A	801	CL0	CAA-CBA-CGA-O1A
19	A	818	CLA	CAA-CBA-CGA-O1A
20	1	514	CHL	C2C-C3C-CAC-CBC
22	J	1104	LMG	C30-C31-C32-C33
22	1	519	LMG	O6-C5-C6-O5
19	B	809	CLA	CAA-CBA-CGA-O2A
19	4	309	CLA	CAA-CBA-CGA-O1A
21	1	520	LHG	O9-C7-C8-C9
19	B	826	CLA	CBA-CGA-O2A-C1
22	F	304	LMG	O9-C10-C11-C12
19	A	837	CLA	CAA-CBA-CGA-O1A
19	B	831	CLA	CAA-CBA-CGA-O2A

There are no ring outliers.

228 monomers are involved in 966 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
19	A	840	CLA	4	0
19	3	308	CLA	14	0
19	4	309	CLA	11	0
26	B	801	DGD	5	0
18	B	802	BCR	4	0
19	A	838	CLA	3	0
18	A	849	BCR	1	0
20	1	514	CHL	9	0
24	3	318	LMT	1	0
19	3	306	CLA	6	0
19	A	808	CLA	7	0
19	B	815	CLA	6	0
19	B	824	CLA	7	0
19	L	304	CLA	4	0
19	A	821	CLA	11	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
20	2	516	CHL	3	0
18	4	301	BCR	9	0
19	A	810	CLA	5	0
19	1	516	CLA	5	0
19	B	834	CLA	6	0
19	A	832	CLA	8	0
18	B	850	BCR	1	0
19	A	805	CLA	10	0
19	B	808	CLA	7	0
19	A	804	CLA	6	0
19	B	833	CLA	7	0
19	J	1102	CLA	5	0
20	2	513	CHL	6	0
18	A	848	BCR	1	0
20	1	512	CHL	7	0
18	2	503	BCR	13	0
19	G	201	CLA	8	0
22	F	305	LMG	2	0
19	K	1002	CLA	4	0
19	2	510	CLA	5	0
19	B	830	CLA	11	0
19	3	315	CLA	6	0
19	G	204	CLA	12	0
18	I	102	BCR	5	0
19	B	820	CLA	9	0
19	A	825	CLA	10	0
19	3	316	CLA	5	0
19	3	313	CLA	4	0
29	A	844	PQN	4	0
19	2	508	CLA	5	0
19	B	826	CLA	5	0
19	4	306	CLA	6	0
19	B	837	CLA	5	0
19	B	816	CLA	4	0
17	3	302	LUT	6	0
19	A	827	CLA	5	0
19	A	833	CLA	7	0
22	4	322	LMG	4	0
19	1	508	CLA	13	0
19	4	305	CLA	3	0
18	1	503	BCR	4	0
21	2	517	LHG	9	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
20	2	515	CHL	4	0
19	B	817	CLA	3	0
19	A	839	CLA	6	0
21	A	845	LHG	7	0
22	B	845	LMG	2	0
17	1	502	LUT	6	0
24	J	1107	LMT	1	0
24	B	846	LMT	3	0
17	4	302	LUT	3	0
18	K	1005	BCR	7	0
20	4	314	CHL	6	0
19	4	310	CLA	7	0
19	A	854	CLA	11	0
24	B	847	LMT	3	0
19	4	315	CLA	5	0
19	A	823	CLA	3	0
19	B	823	CLA	8	0
19	L	305	CLA	2	0
19	A	822	CLA	4	0
19	G	203	CLA	2	0
19	A	813	CLA	8	0
22	2	519	LMG	6	0
18	F	306	BCR	1	0
19	A	835	CLA	4	0
19	3	310	CLA	5	0
19	B	828	CLA	4	0
19	B	822	CLA	6	0
27	A	801	CLO	8	0
22	F	304	LMG	8	0
20	4	317	CHL	5	0
18	B	849	BCR	2	0
19	B	806	CLA	6	0
19	B	839	CLA	5	0
19	B	836	CLA	4	0
19	A	830	CLA	9	0
19	B	840	CLA	16	0
19	A	814	CLA	2	0
19	B	810	CLA	4	0
19	G	202	CLA	3	0
19	B	825	CLA	10	0
19	1	504	CLA	10	0
21	A	853	LHG	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
21	B	842	LHG	2	0
20	1	521	CHL	8	0
19	A	806	CLA	6	0
19	4	308	CLA	5	0
29	B	841	PQN	8	0
19	A	855	CLA	10	0
19	A	826	CLA	5	0
22	2	524	LMG	1	0
20	4	316	CHL	10	0
24	B	855	LMT	3	0
19	3	309	CLA	3	0
18	L	306	BCR	2	0
26	4	319	DGD	6	0
18	B	856	BCR	6	0
22	G	206	LMG	5	0
19	B	819	CLA	11	0
28	A	843	SF4	1	0
19	J	1101	CLA	13	0
19	K	1004	CLA	2	0
19	A	802	CLA	13	0
19	1	515	CLA	8	0
23	4	303	XAT	10	0
26	J	1106	DGD	6	0
22	2	518	LMG	2	0
18	G	205	BCR	3	0
18	3	303	BCR	7	0
19	4	312	CLA	4	0
26	G	207	DGD	1	0
26	B	854	DGD	9	0
19	B	838	CLA	9	0
19	2	505	CLA	4	0
19	1	509	CLA	3	0
19	2	509	CLA	2	0
18	A	852	BCR	6	0
19	A	828	CLA	9	0
19	B	831	CLA	5	0
19	3	305	CLA	20	0
19	1	513	CLA	2	0
24	G	208	LMT	4	0
19	A	834	CLA	6	0
19	K	1003	CLA	1	0
19	A	815	CLA	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
19	B	813	CLA	2	0
22	A	847	LMG	3	0
22	J	1103	LMG	1	0
19	L	301	CLA	2	0
19	B	805	CLA	7	0
18	B	851	BCR	5	0
19	A	812	CLA	6	0
19	F	303	CLA	7	0
18	J	1108	BCR	4	0
19	3	307	CLA	6	0
23	2	502	XAT	4	0
18	A	856	BCR	3	0
19	4	304	CLA	6	0
19	B	804	CLA	4	0
18	L	307	BCR	2	0
19	A	811	CLA	12	0
19	4	318	CLA	9	0
18	L	302	BCR	4	0
19	A	841	CLA	8	0
24	G	209	LMT	1	0
28	C	102	SF4	2	0
19	F	302	CLA	5	0
22	B	844	LMG	4	0
18	3	304	BCR	4	0
19	A	820	CLA	1	0
17	2	501	LUT	8	0
19	A	816	CLA	1	0
19	A	837	CLA	6	0
19	A	817	CLA	3	0
19	B	812	CLA	7	0
18	I	101	BCR	7	0
19	B	807	CLA	3	0
19	1	510	CLA	8	0
17	1	501	LUT	6	0
19	A	836	CLA	6	0
19	B	818	CLA	7	0
20	2	512	CHL	9	0
21	1	520	LHG	10	0
19	A	809	CLA	9	0
19	A	824	CLA	15	0
19	2	506	CLA	5	0
20	3	314	CHL	9	0

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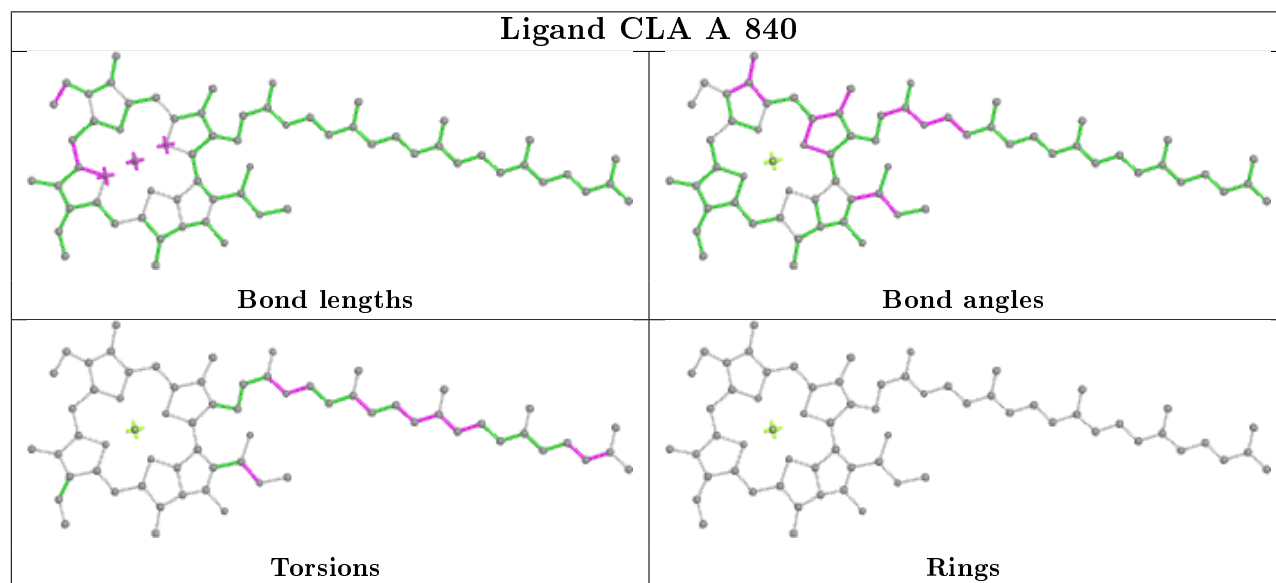
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22	G	210	LMG	1	0
19	1	511	CLA	1	0
19	K	1001	CLA	6	0
19	1	507	CLA	8	0
18	B	852	BCR	4	0
19	A	807	CLA	5	0
19	B	803	CLA	7	0
20	2	526	CHL	11	0
19	A	819	CLA	8	0
19	J	1105	CLA	9	0
24	A	846	LMT	3	0
17	J	1109	LUT	8	0
18	A	850	BCR	5	0
30	F	301	ZEX	6	0
19	B	827	CLA	4	0
19	B	832	CLA	7	0
24	4	320	LMT	3	0
19	B	814	CLA	5	0
19	2	507	CLA	6	0
19	L	303	CLA	3	0
21	B	843	LHG	6	0
19	B	829	CLA	9	0
18	A	851	BCR	5	0
19	2	514	CLA	3	0
18	B	853	BCR	6	0
19	4	311	CLA	2	0
19	2	511	CLA	4	0
22	1	518	LMG	3	0
17	3	301	LUT	13	0
19	B	809	CLA	7	0
20	4	313	CHL	2	0
19	A	842	CLA	9	0
19	A	818	CLA	11	0
19	B	811	CLA	5	0
19	B	835	CLA	5	0
19	A	831	CLA	6	0
19	3	317	CLA	5	0
19	A	803	CLA	6	0
21	1	517	LHG	7	0
22	J	1104	LMG	2	0
19	1	505	CLA	1	0
19	4	307	CLA	10	0

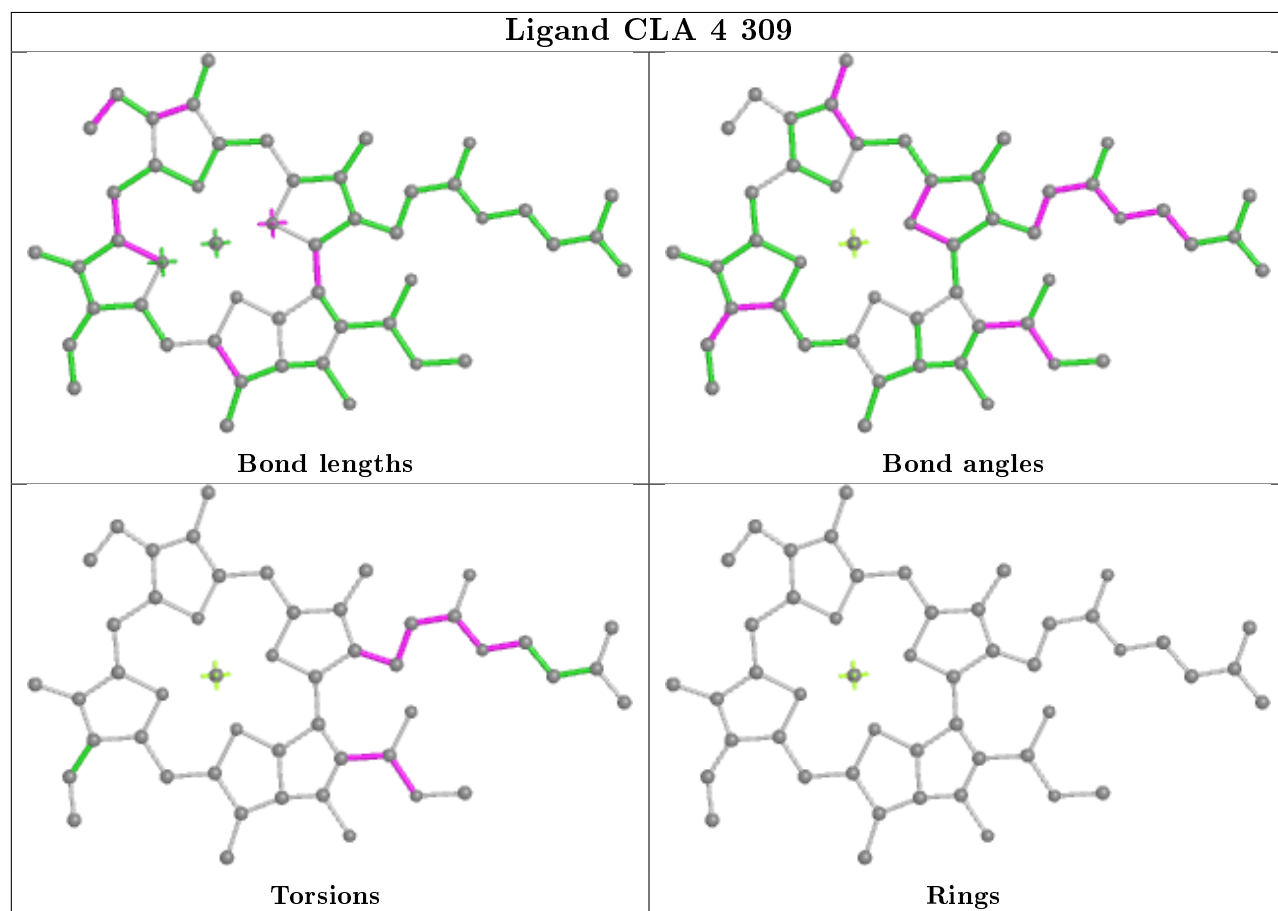
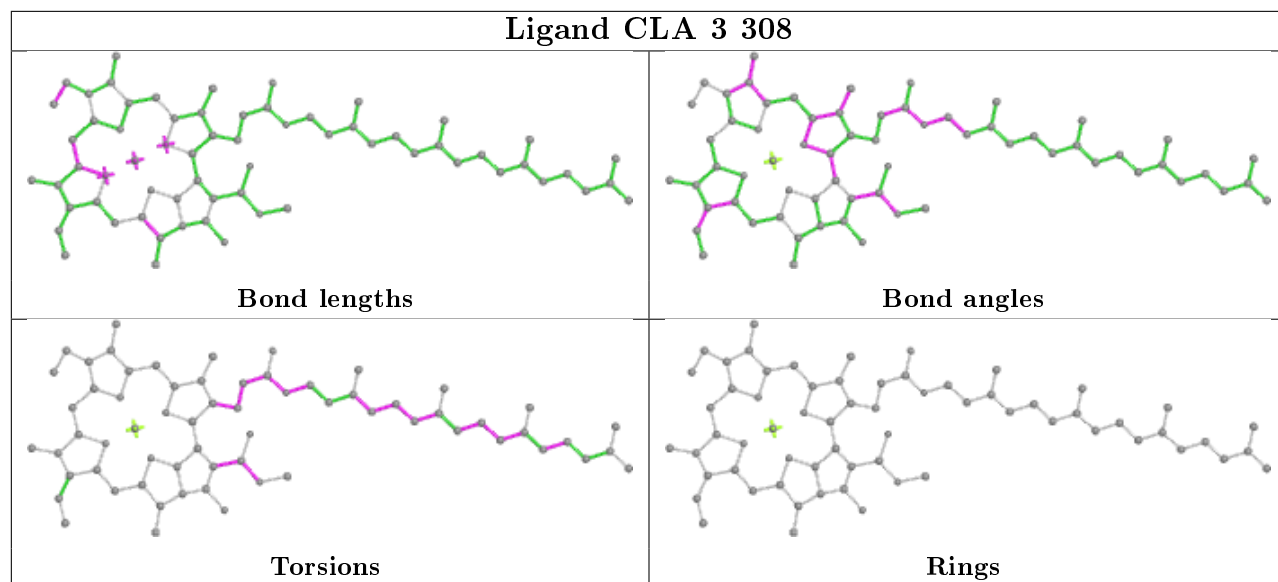
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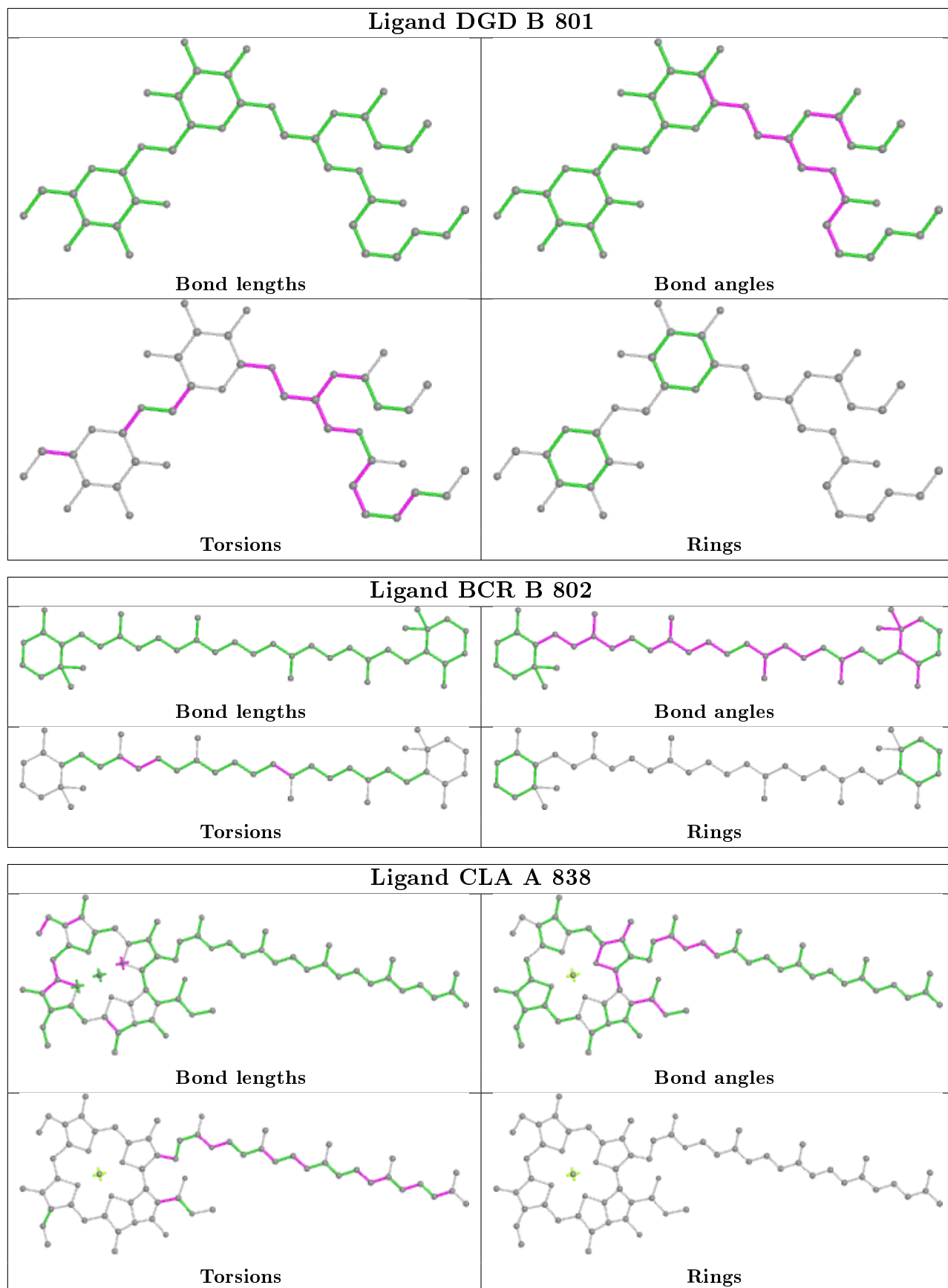
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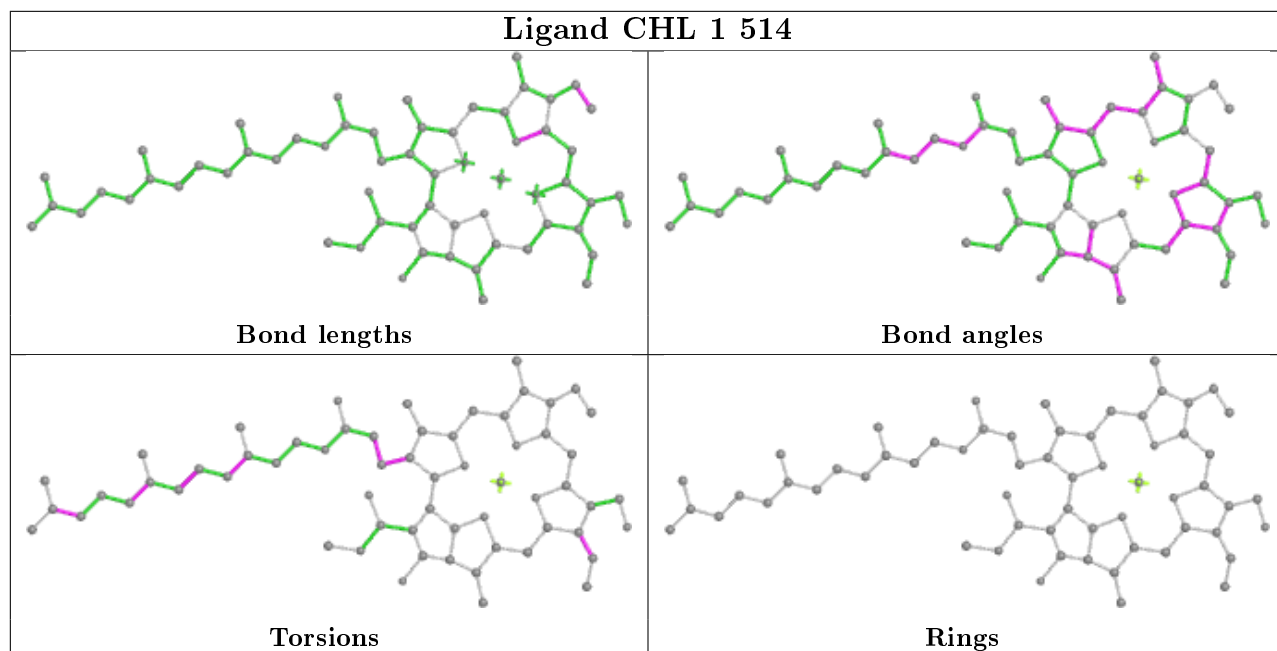
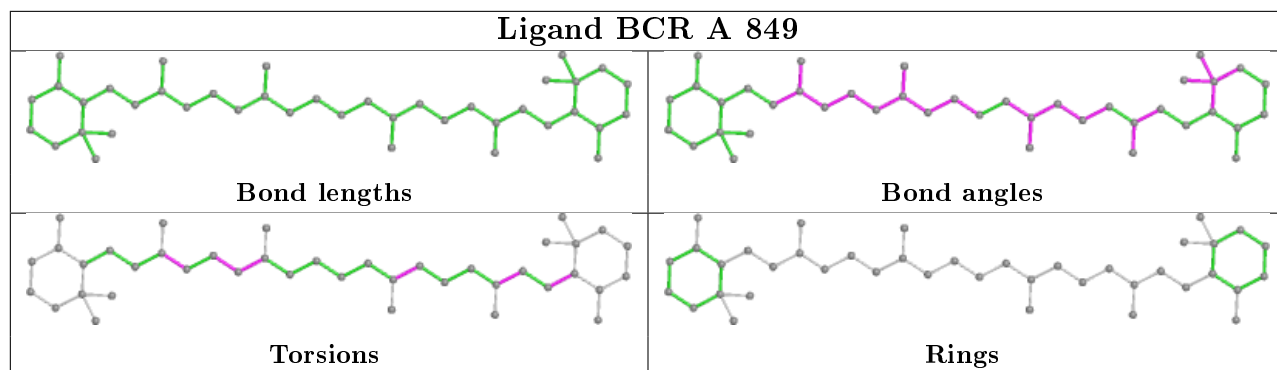
Mol	Chain	Res	Type	Clashes	Symm-Clashes
19	H	1000	CLA	4	0
19	2	504	CLA	7	0
19	A	829	CLA	5	0

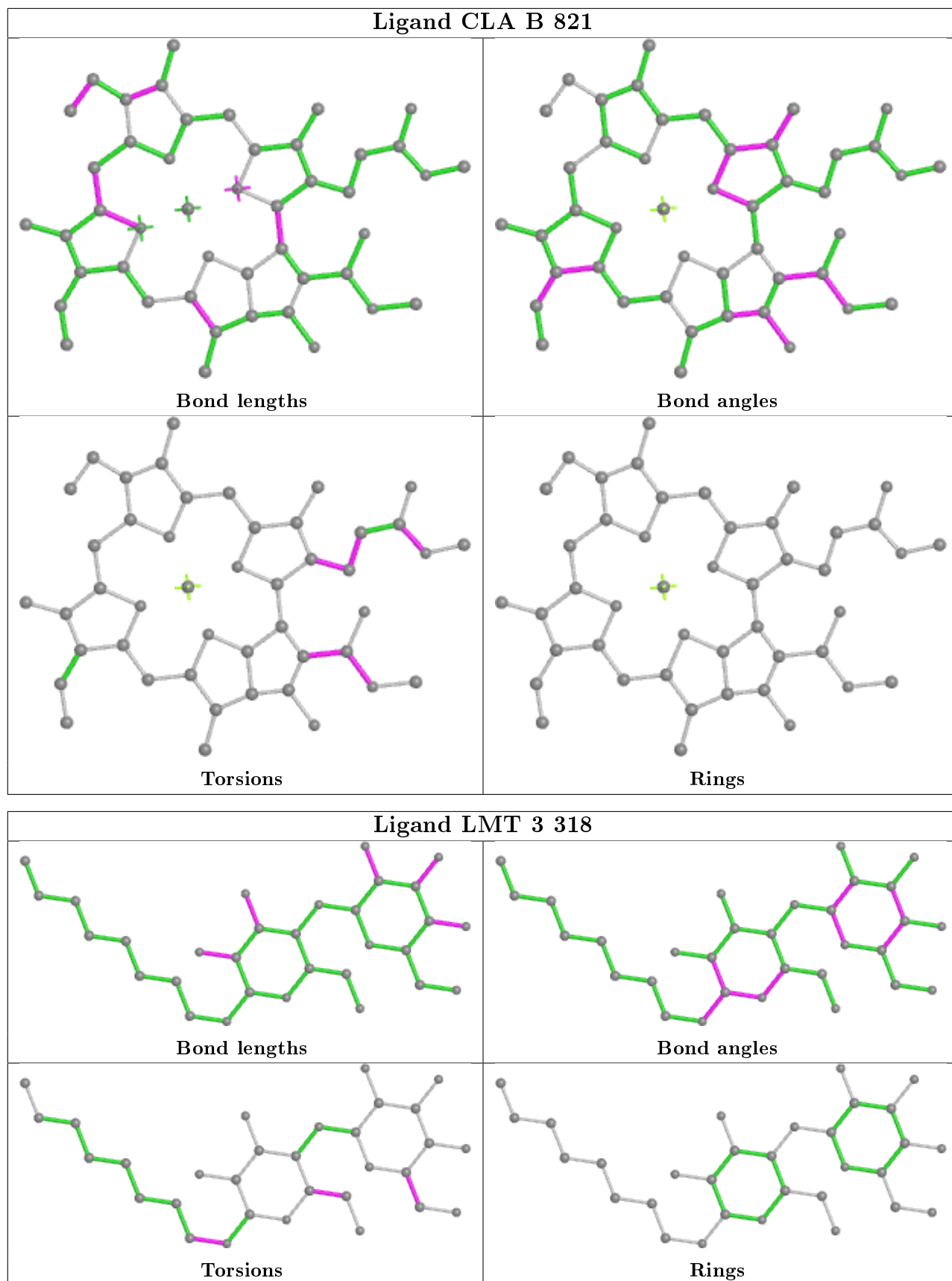
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

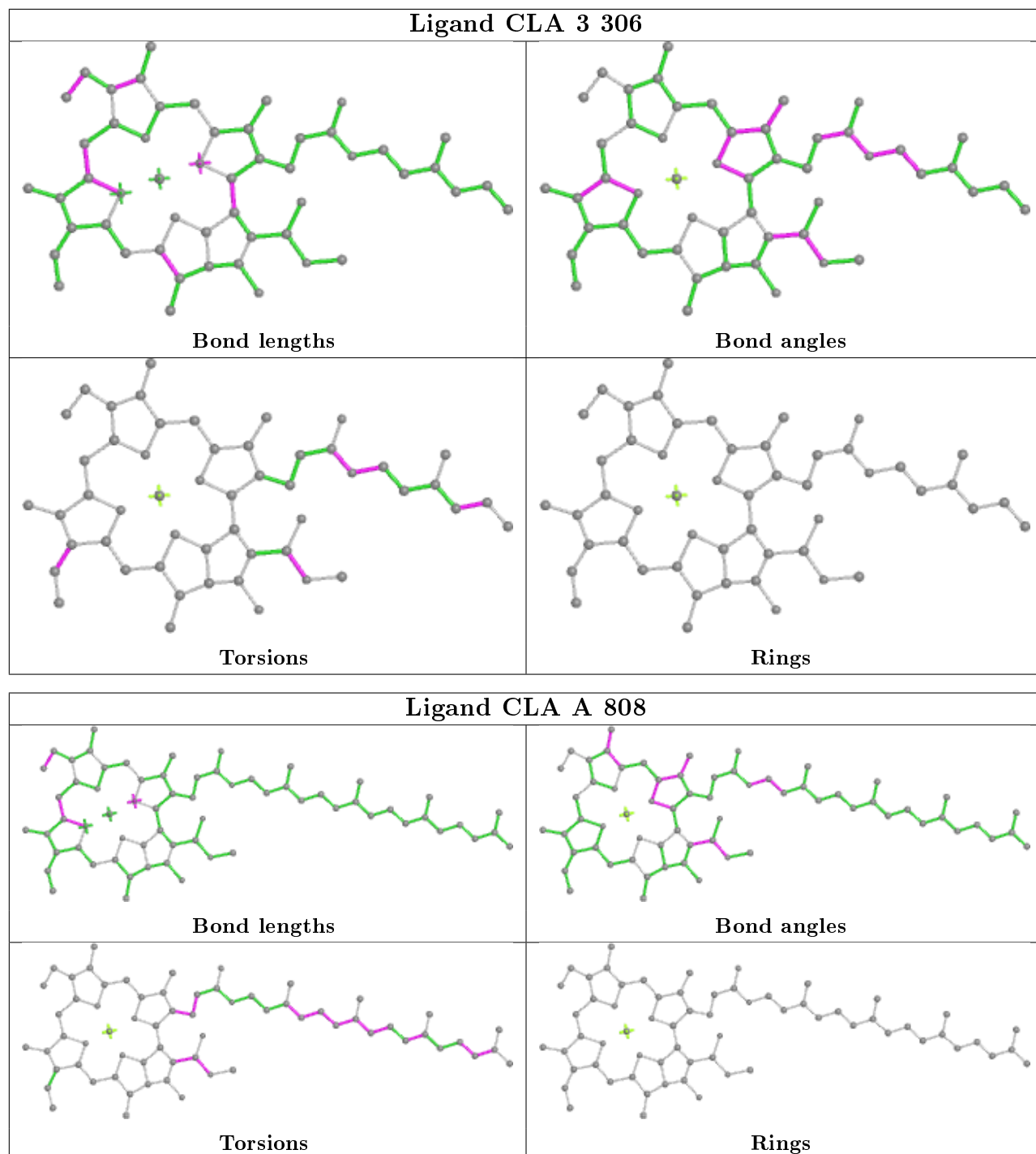


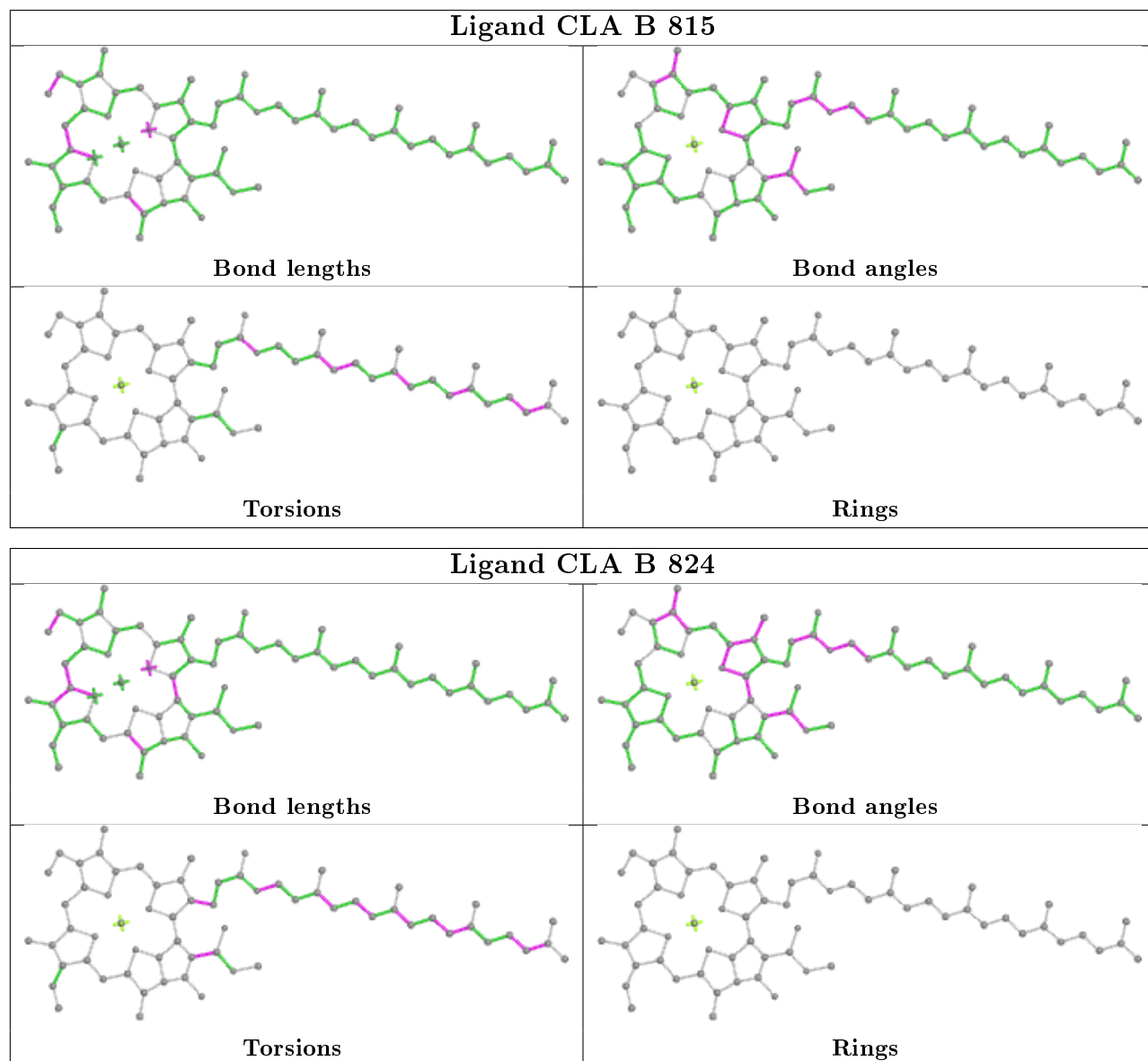


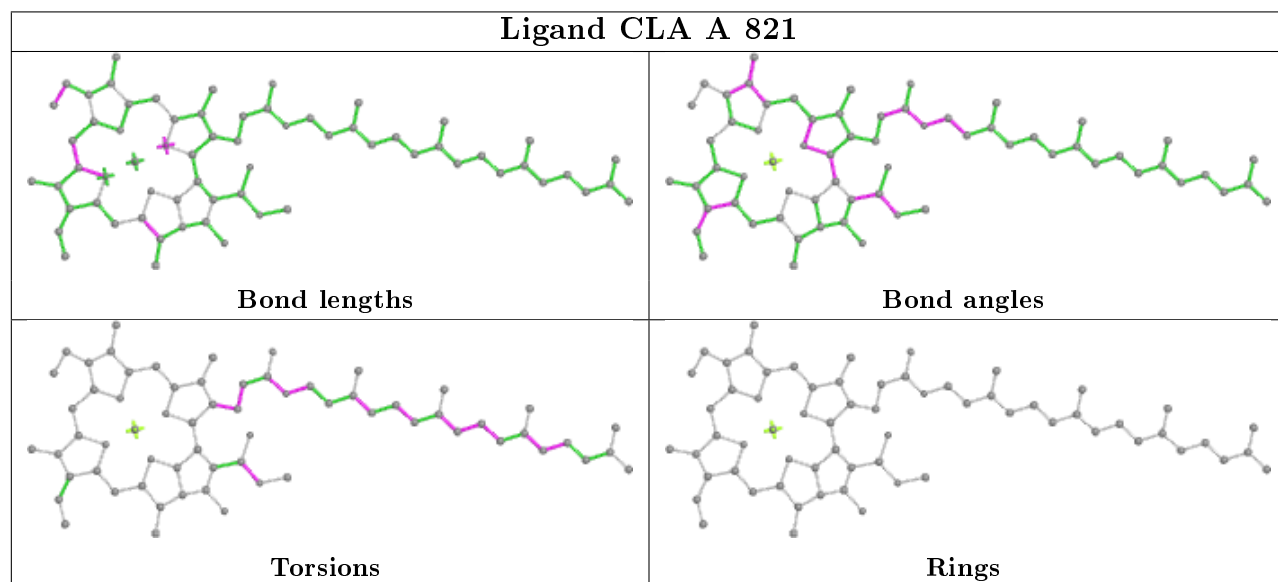
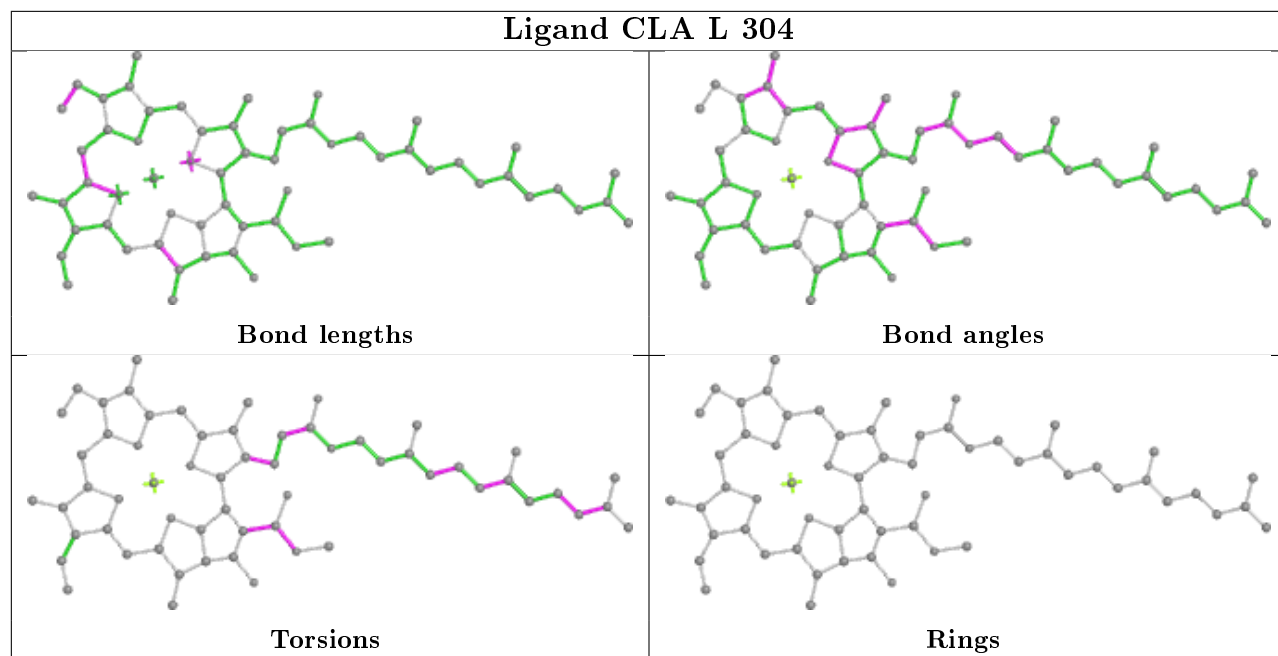


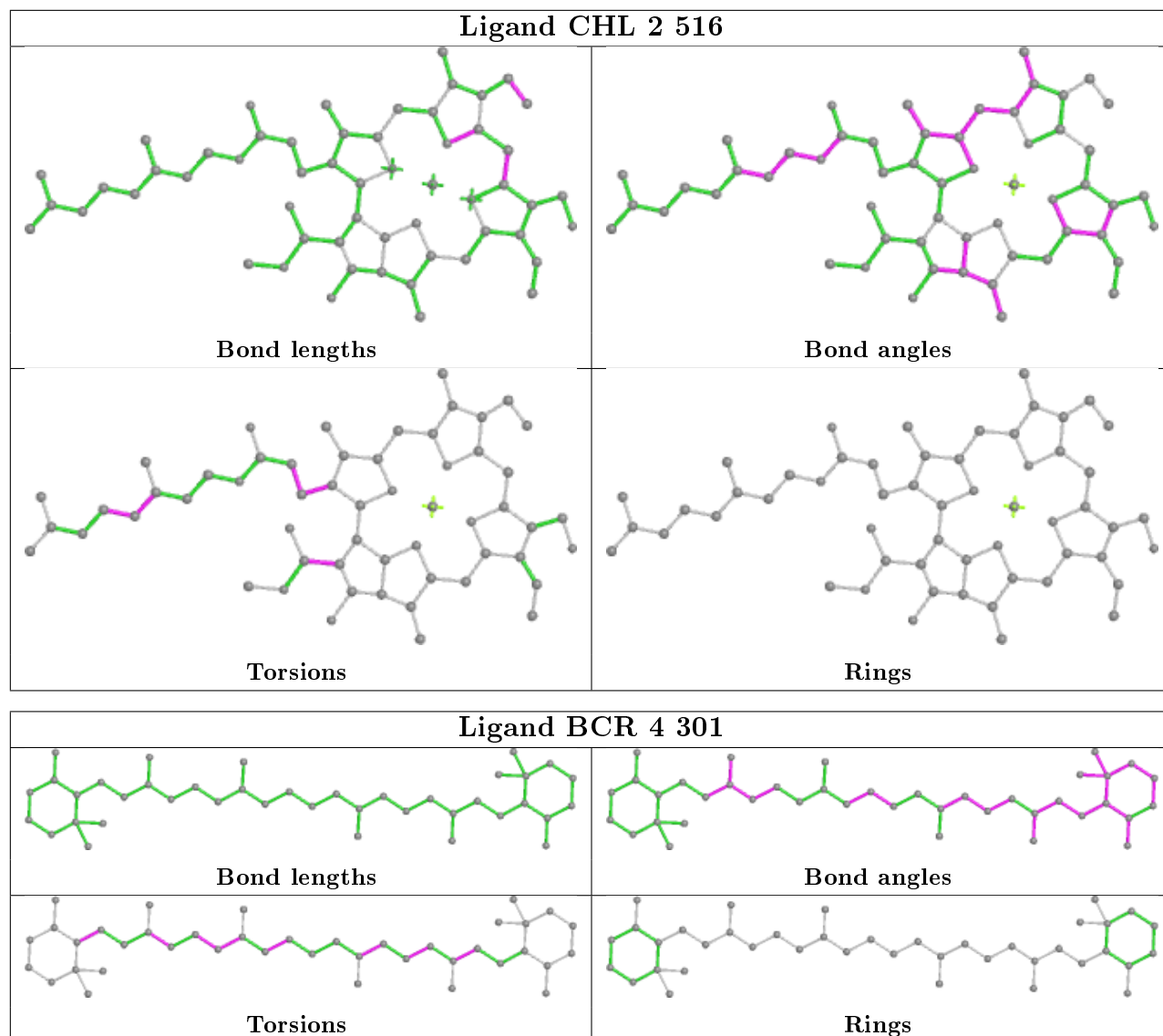


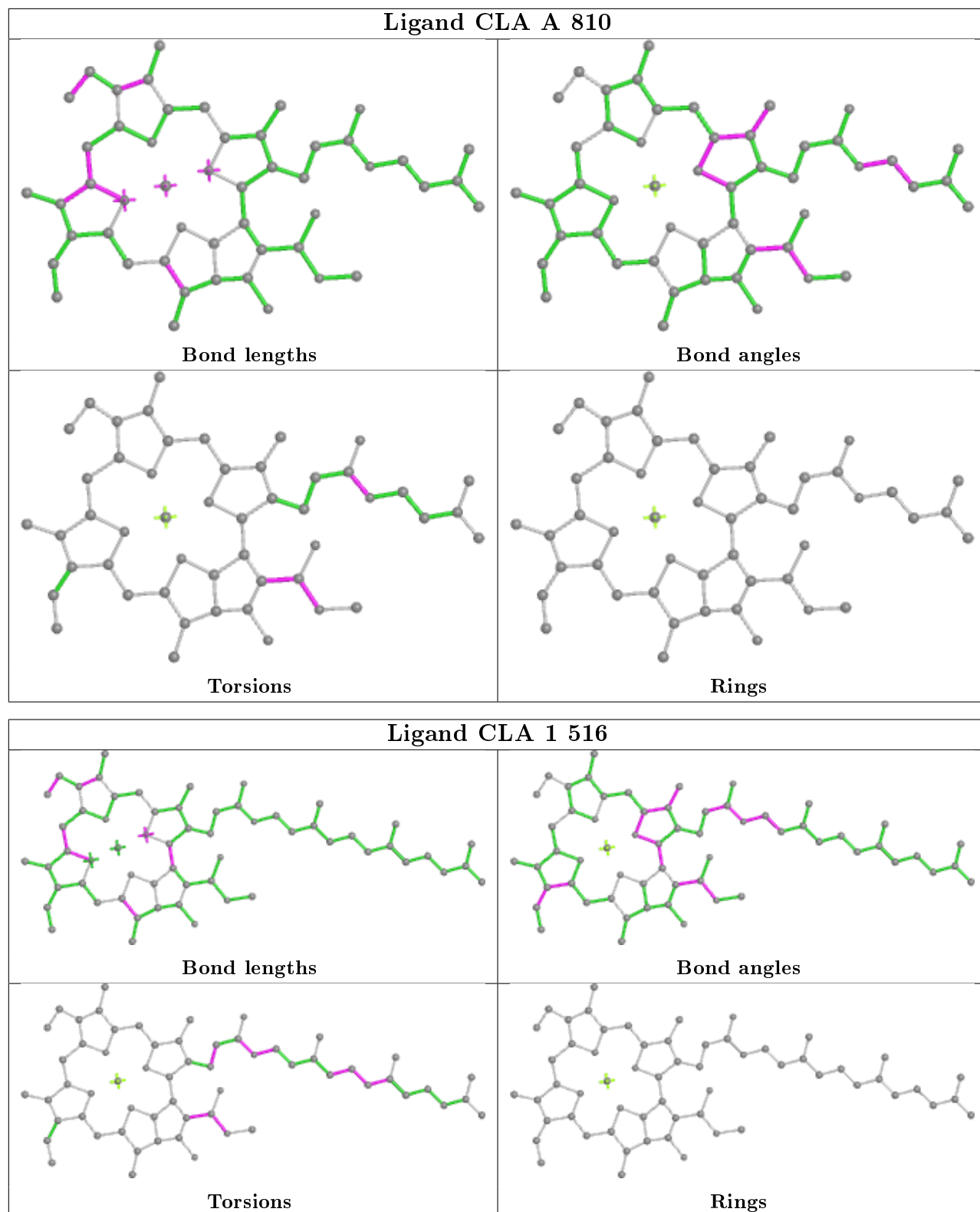


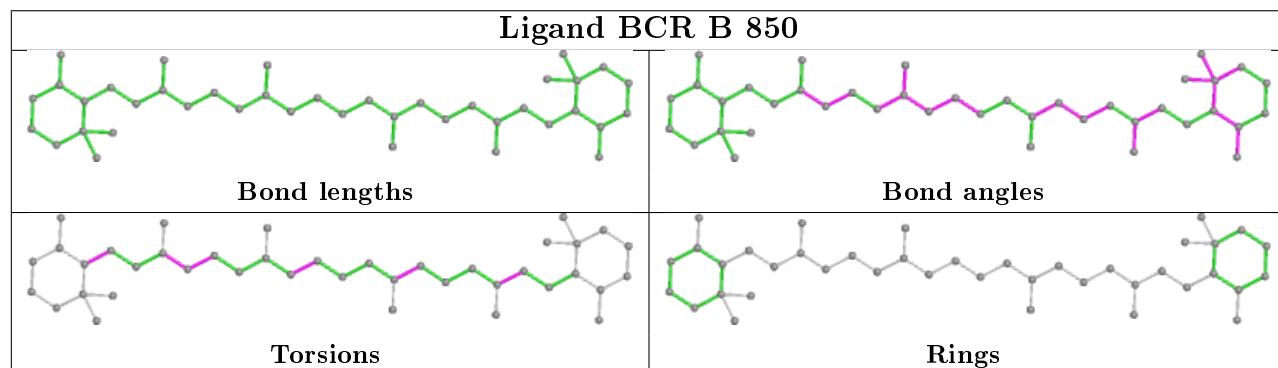
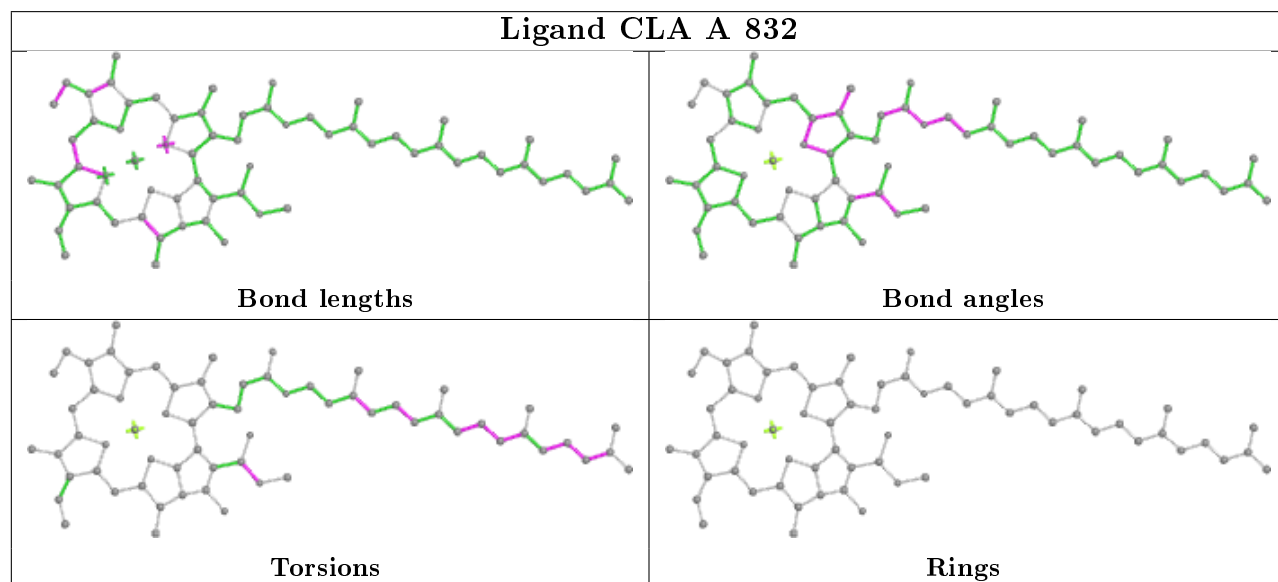
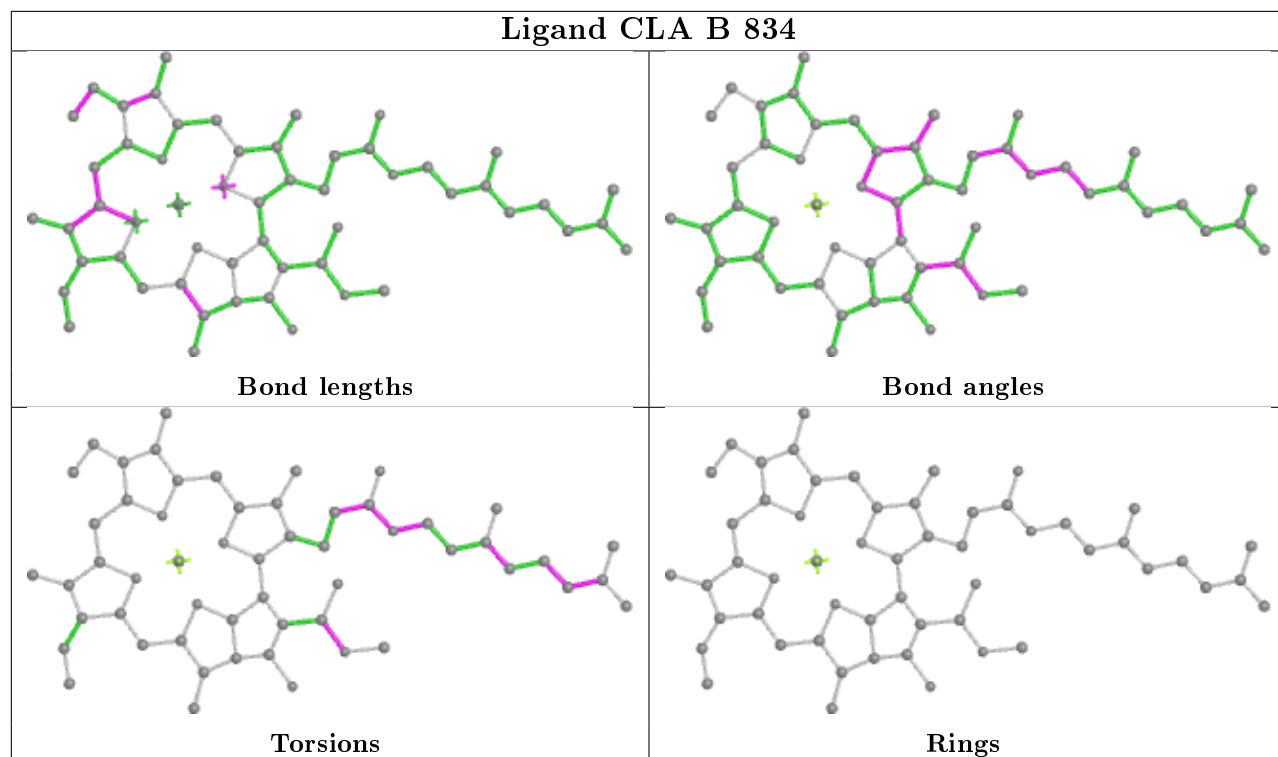


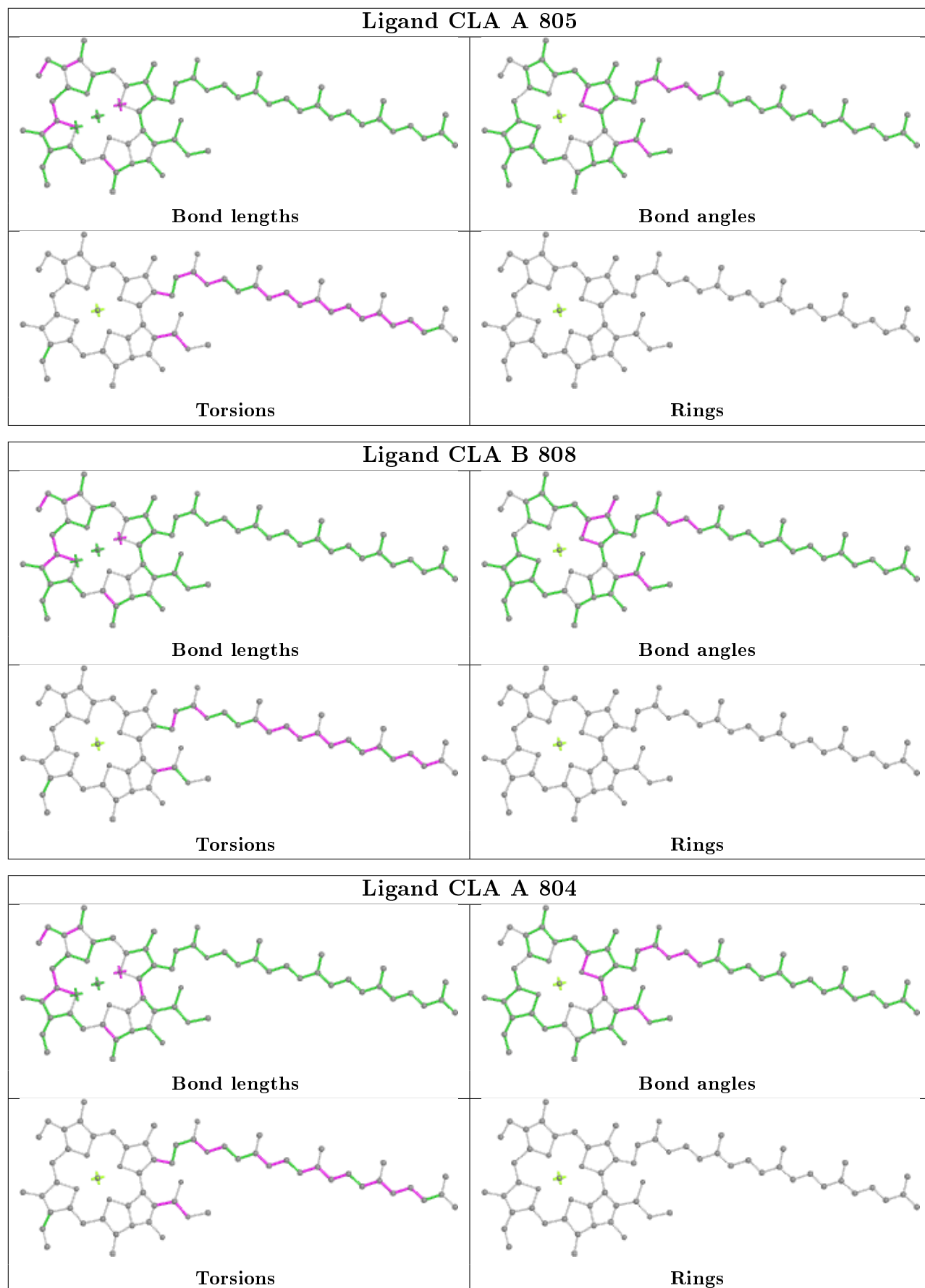


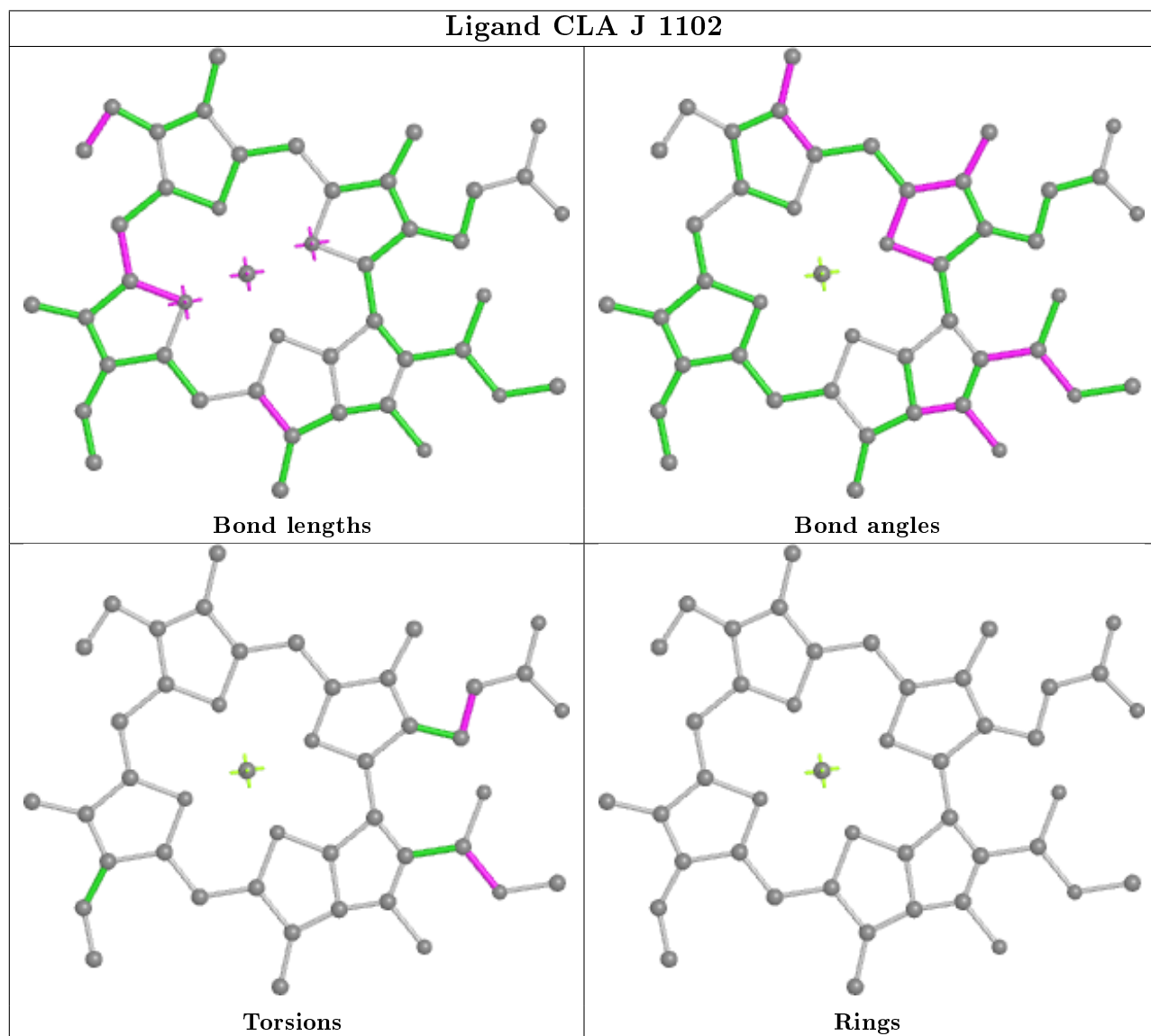
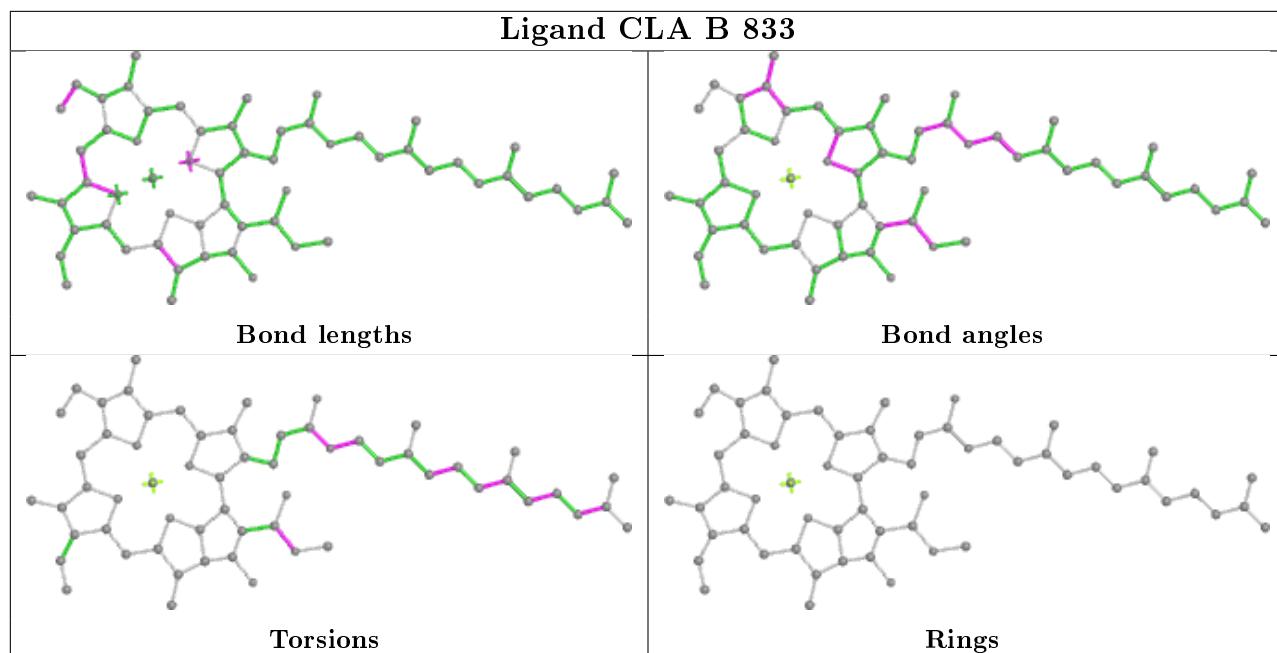


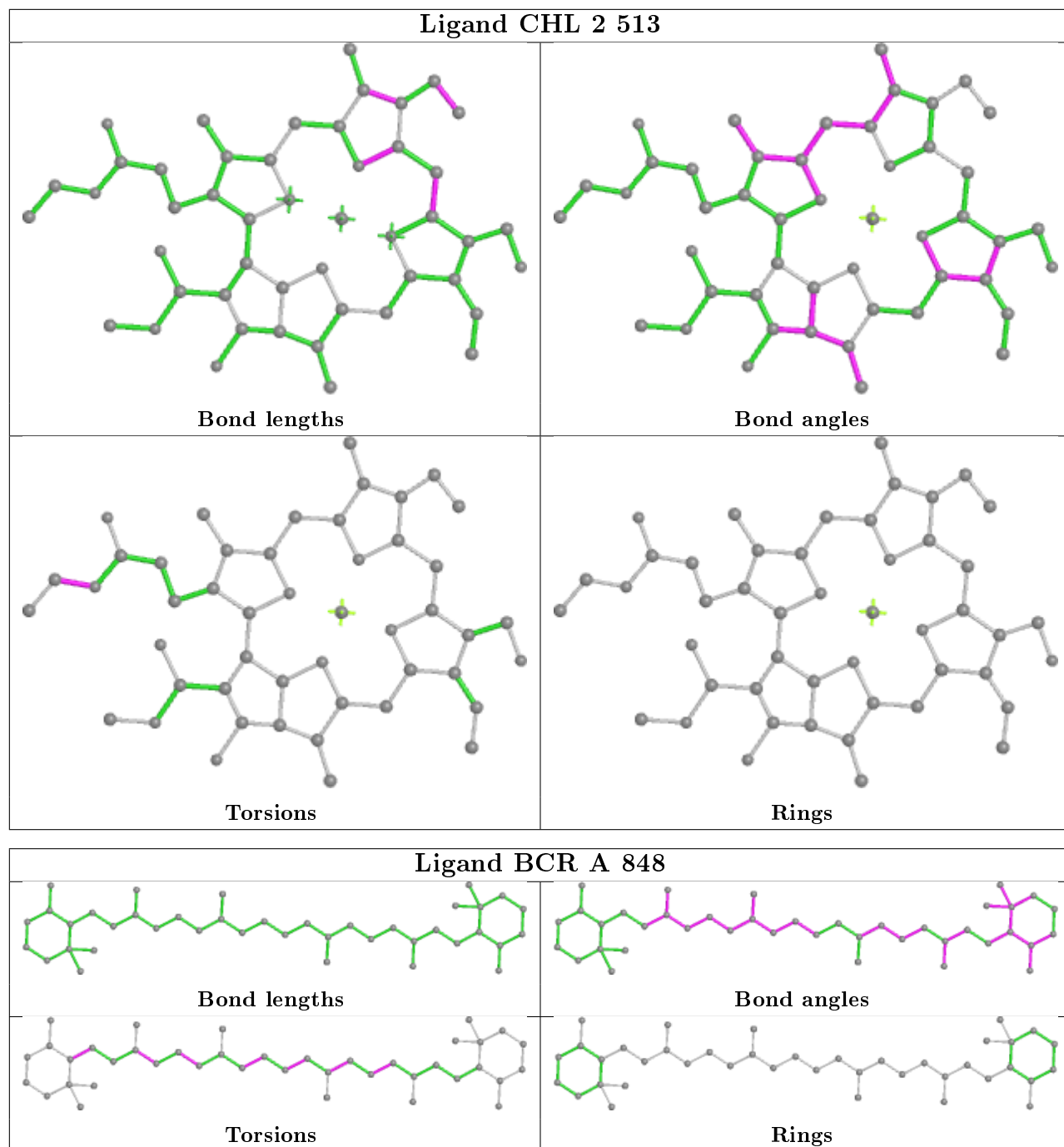


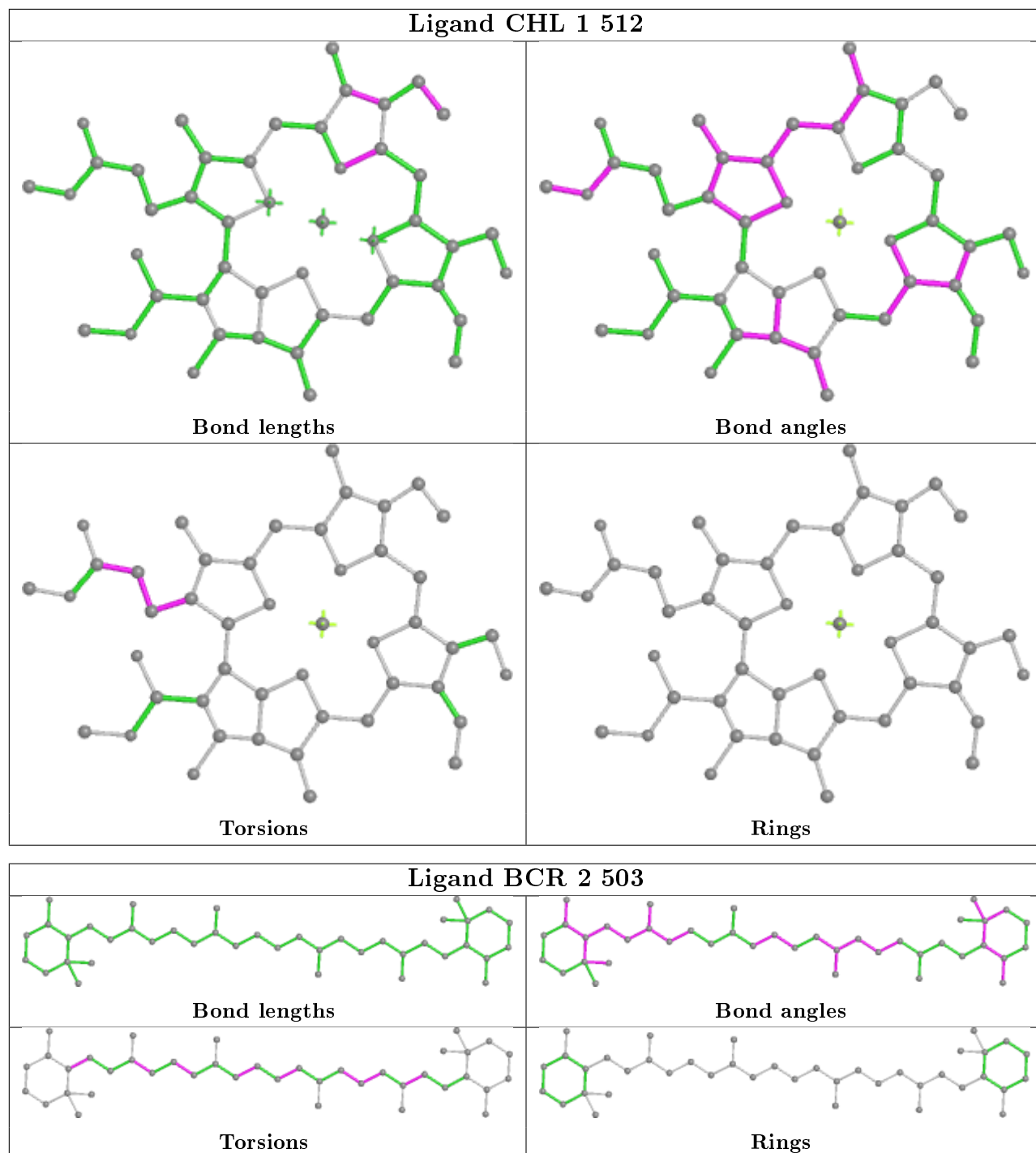


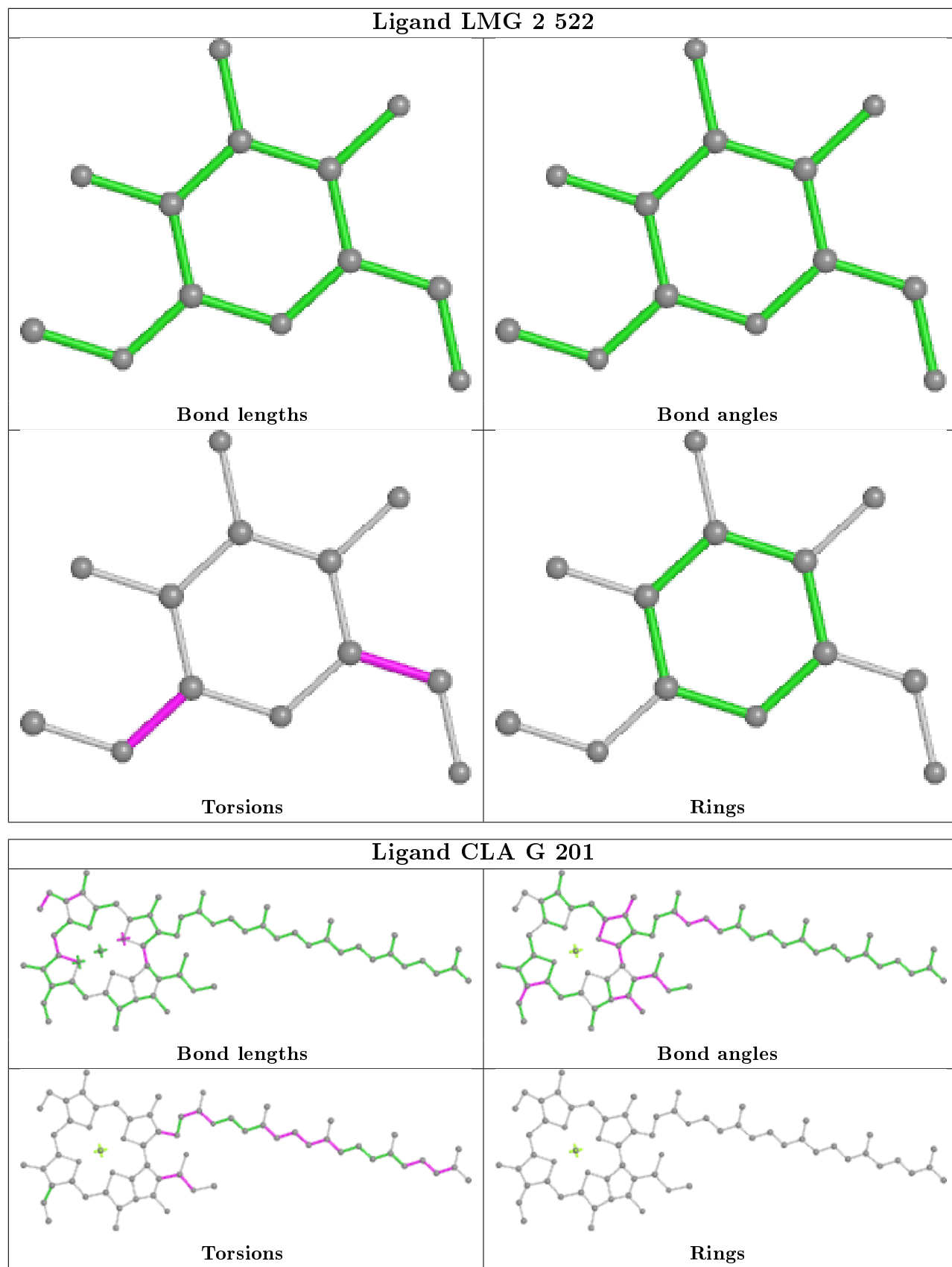


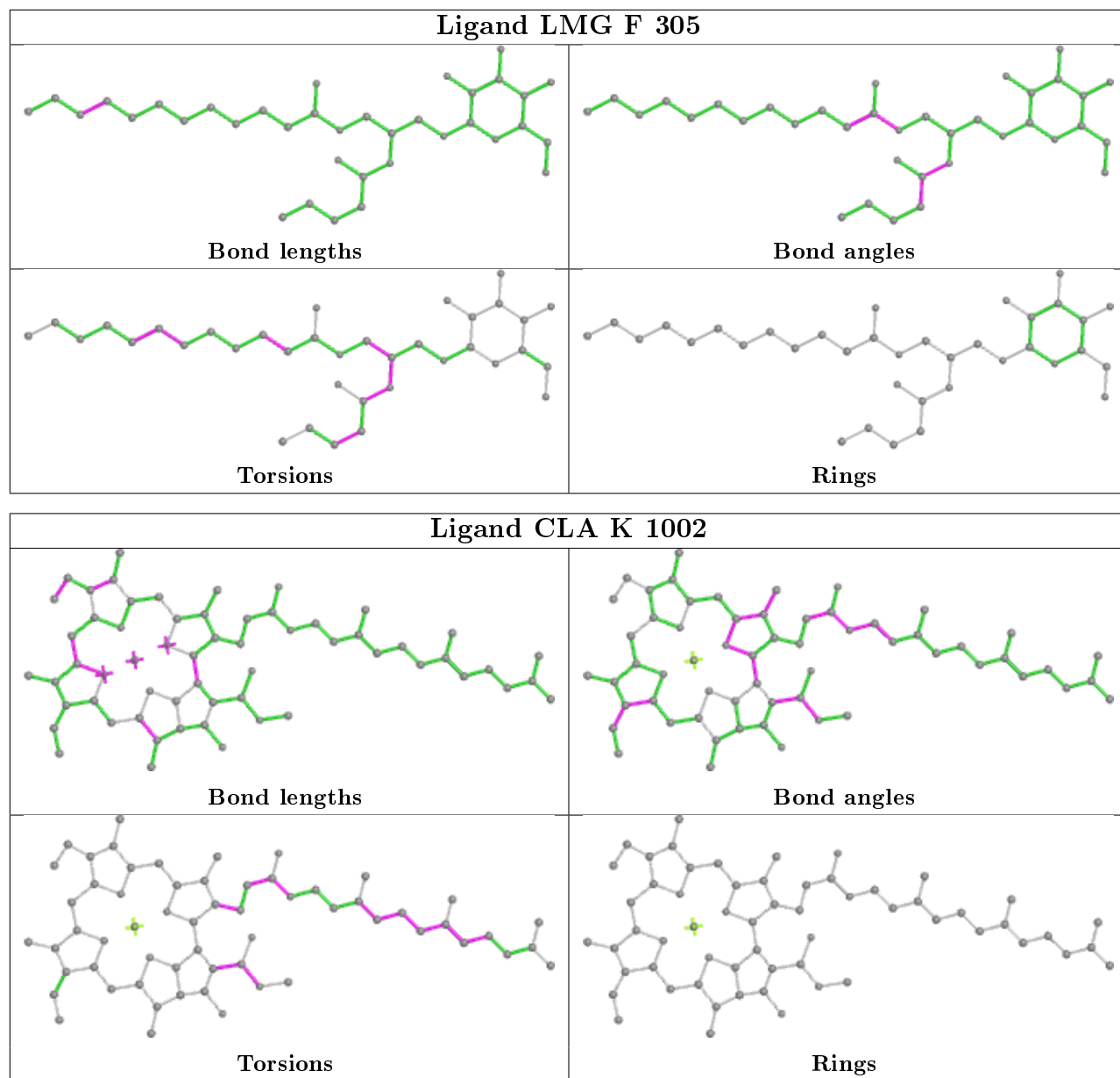


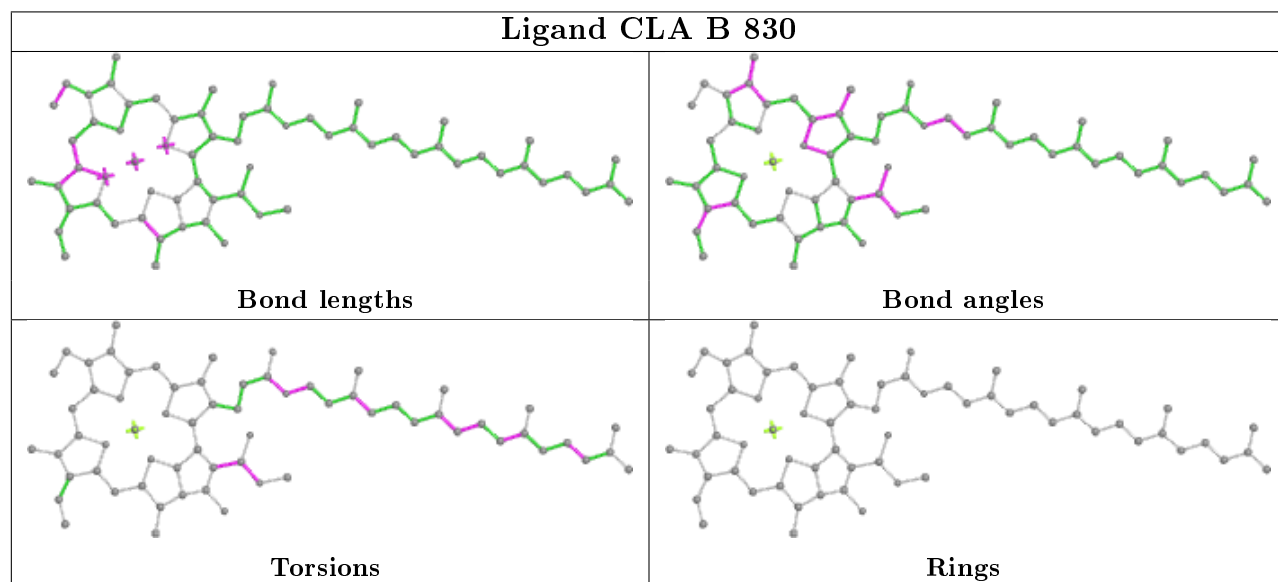
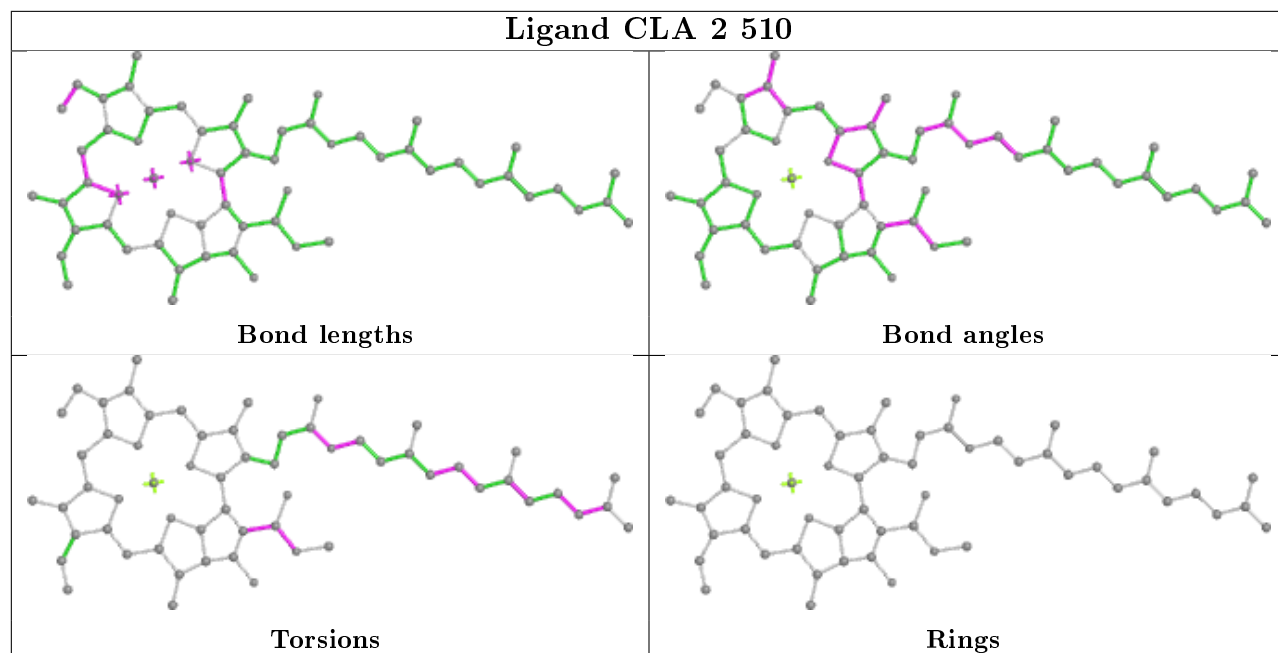


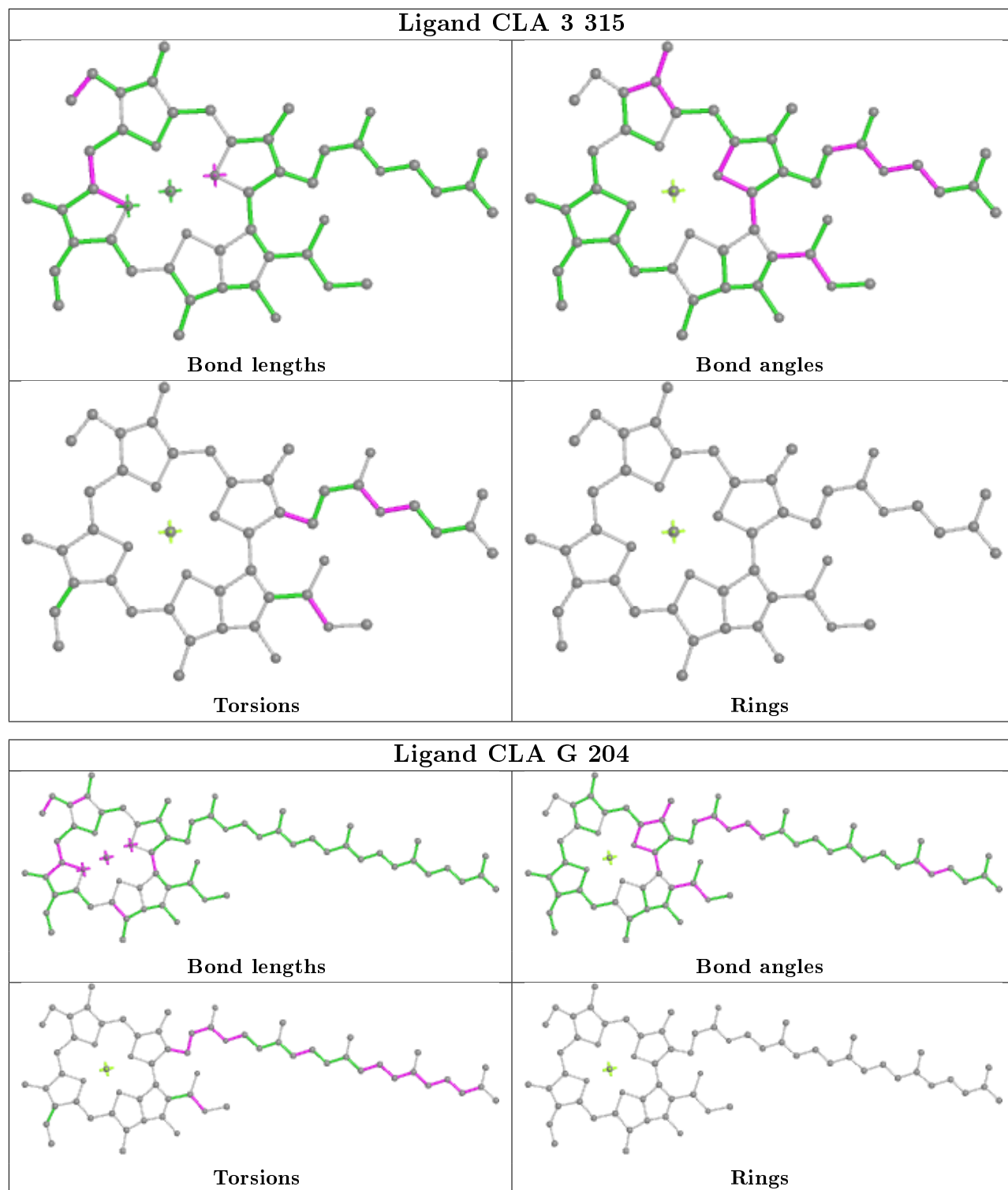


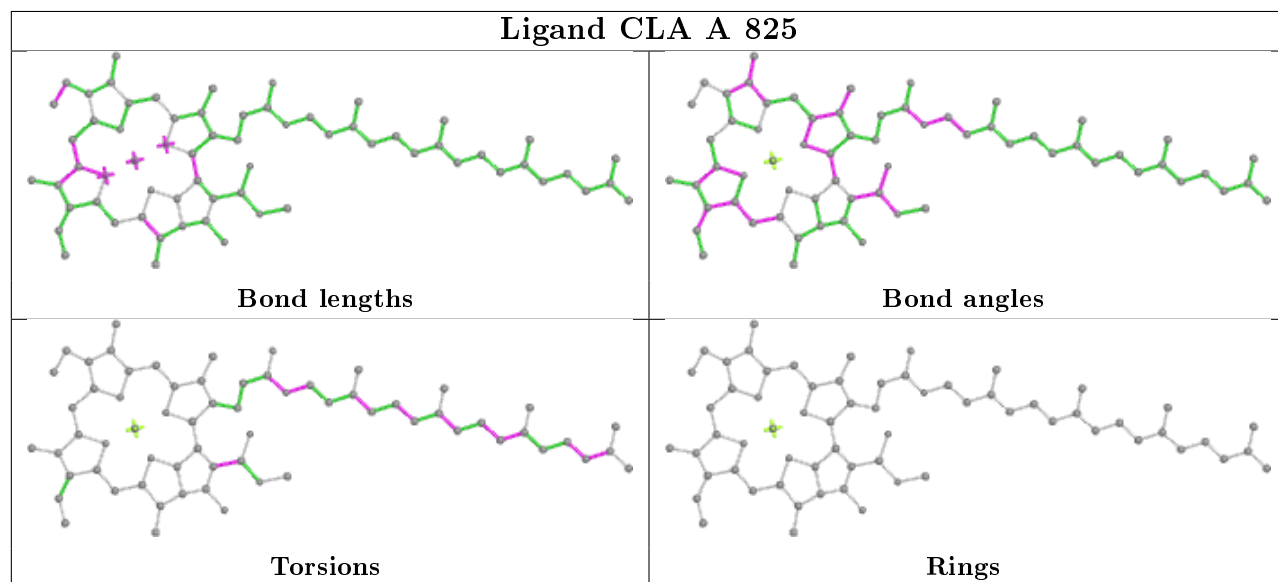
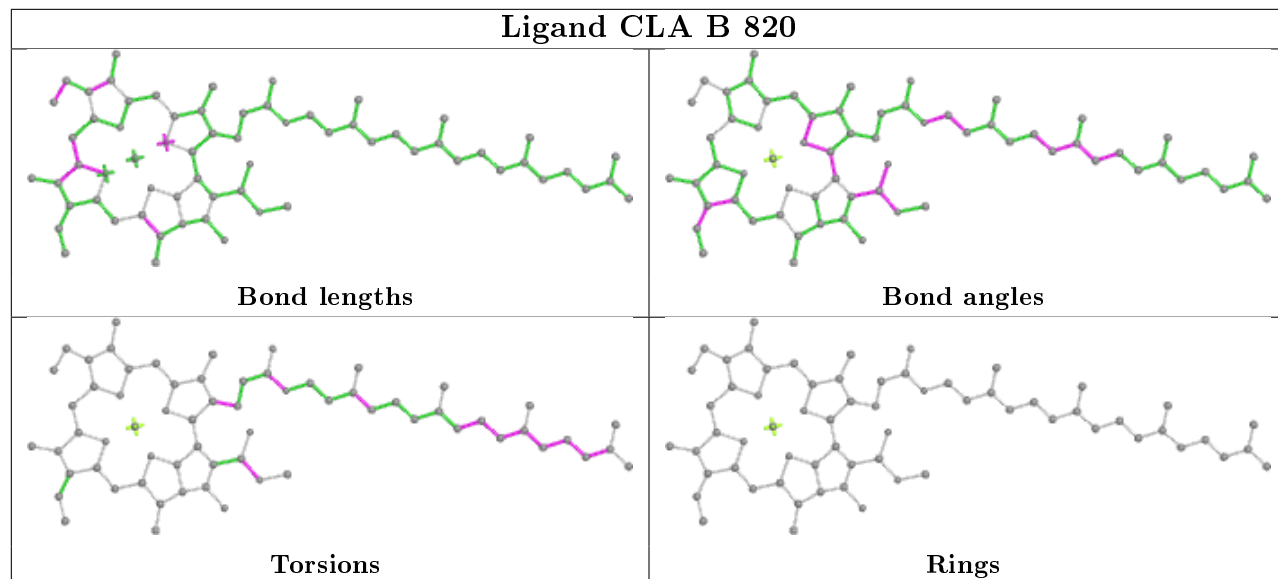
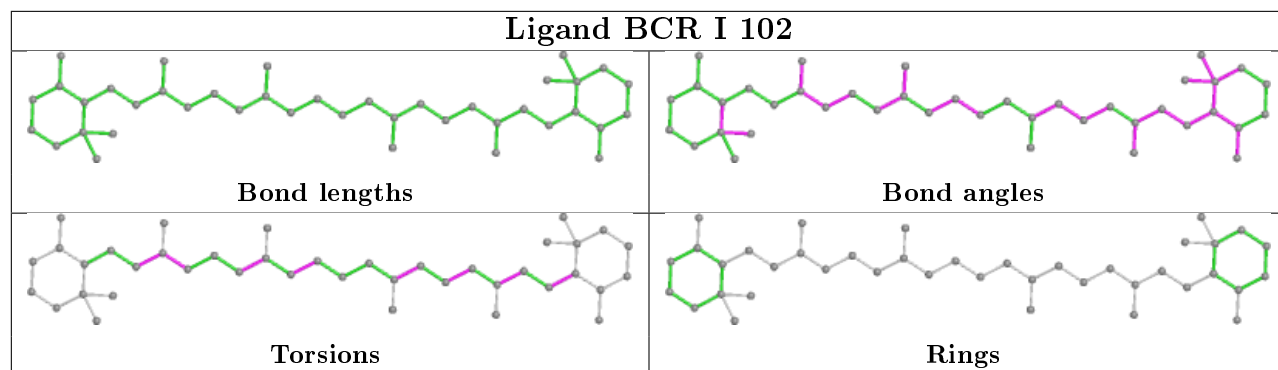


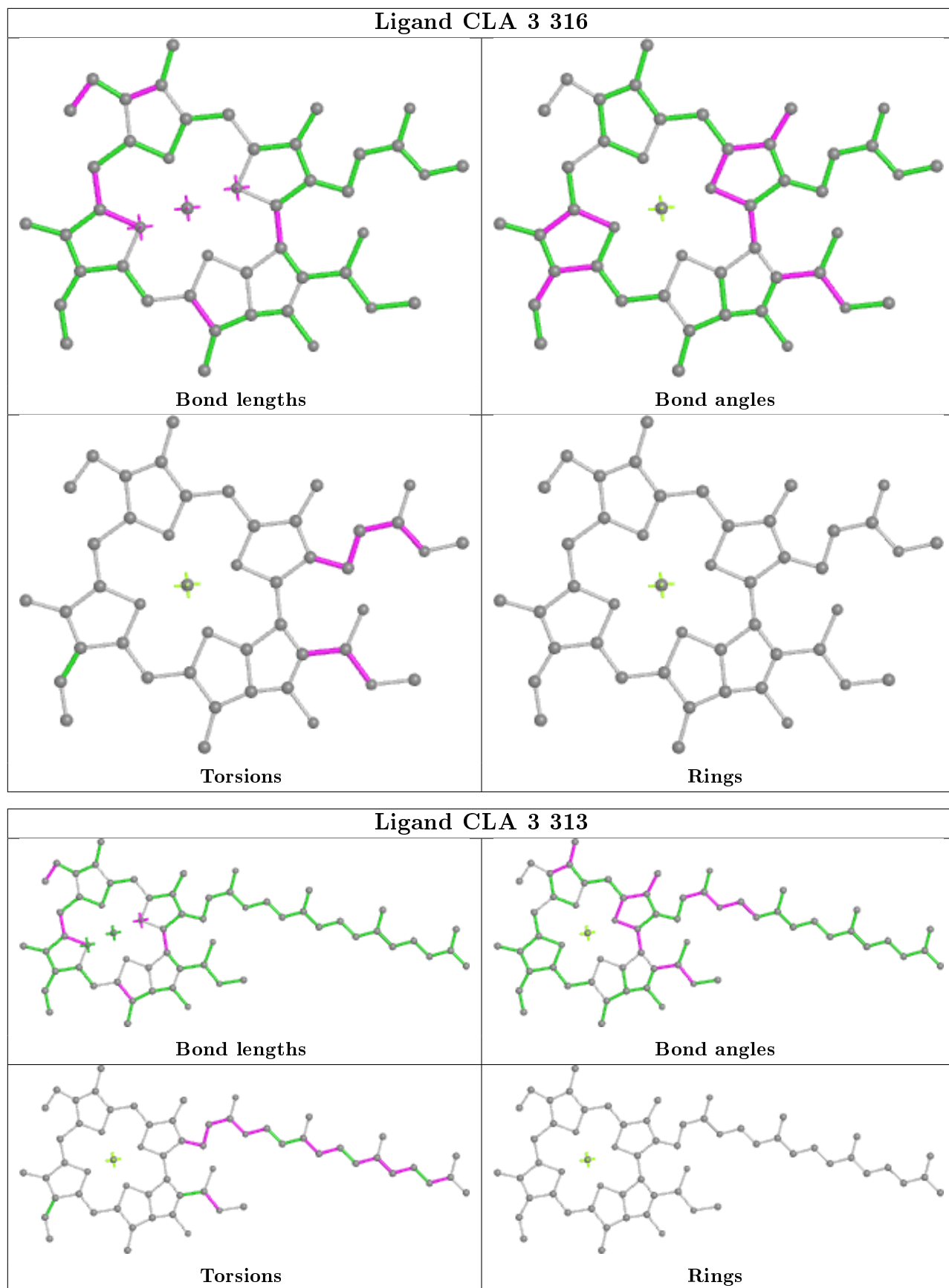


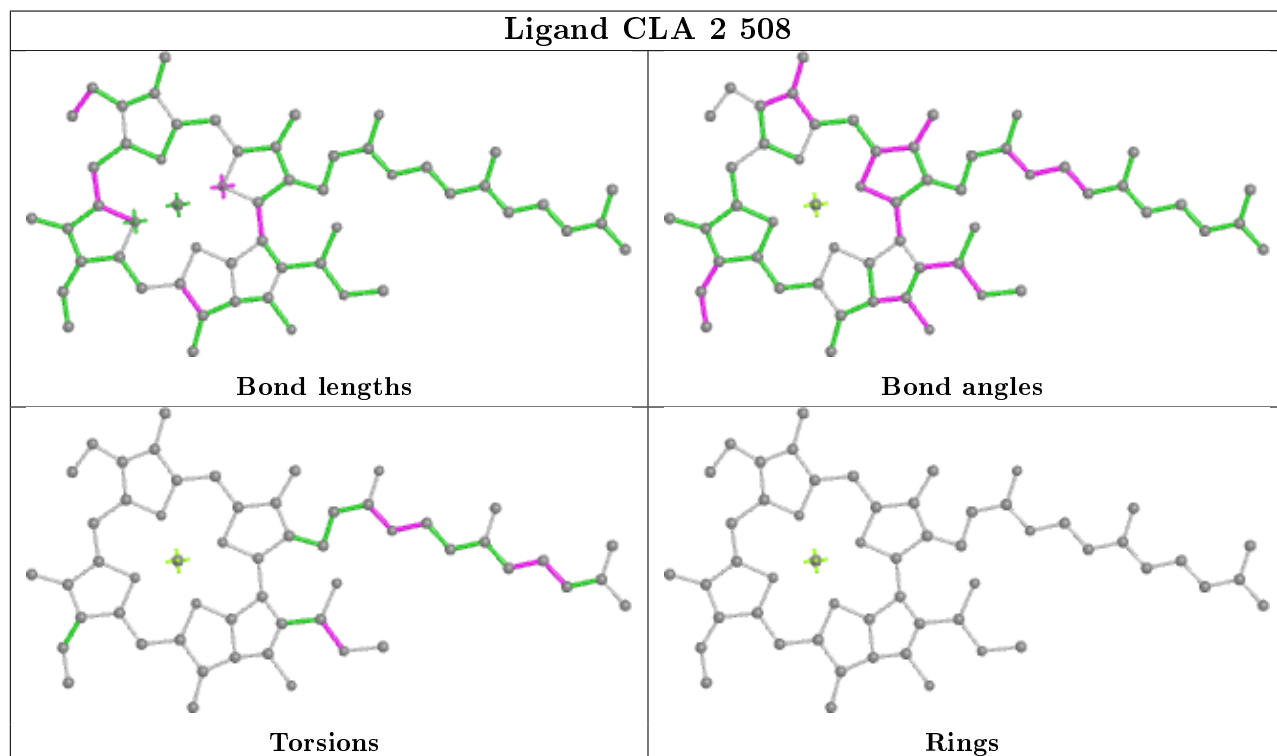
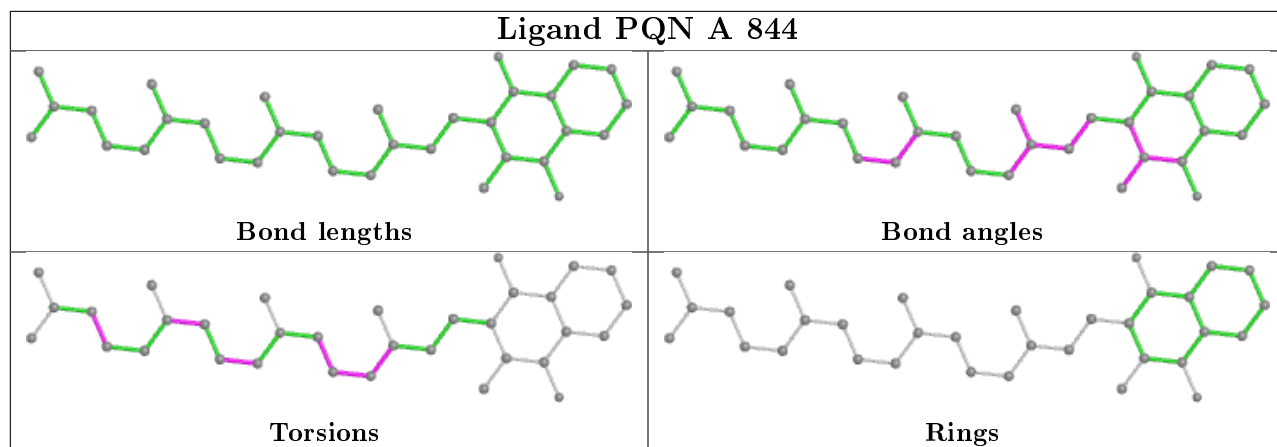


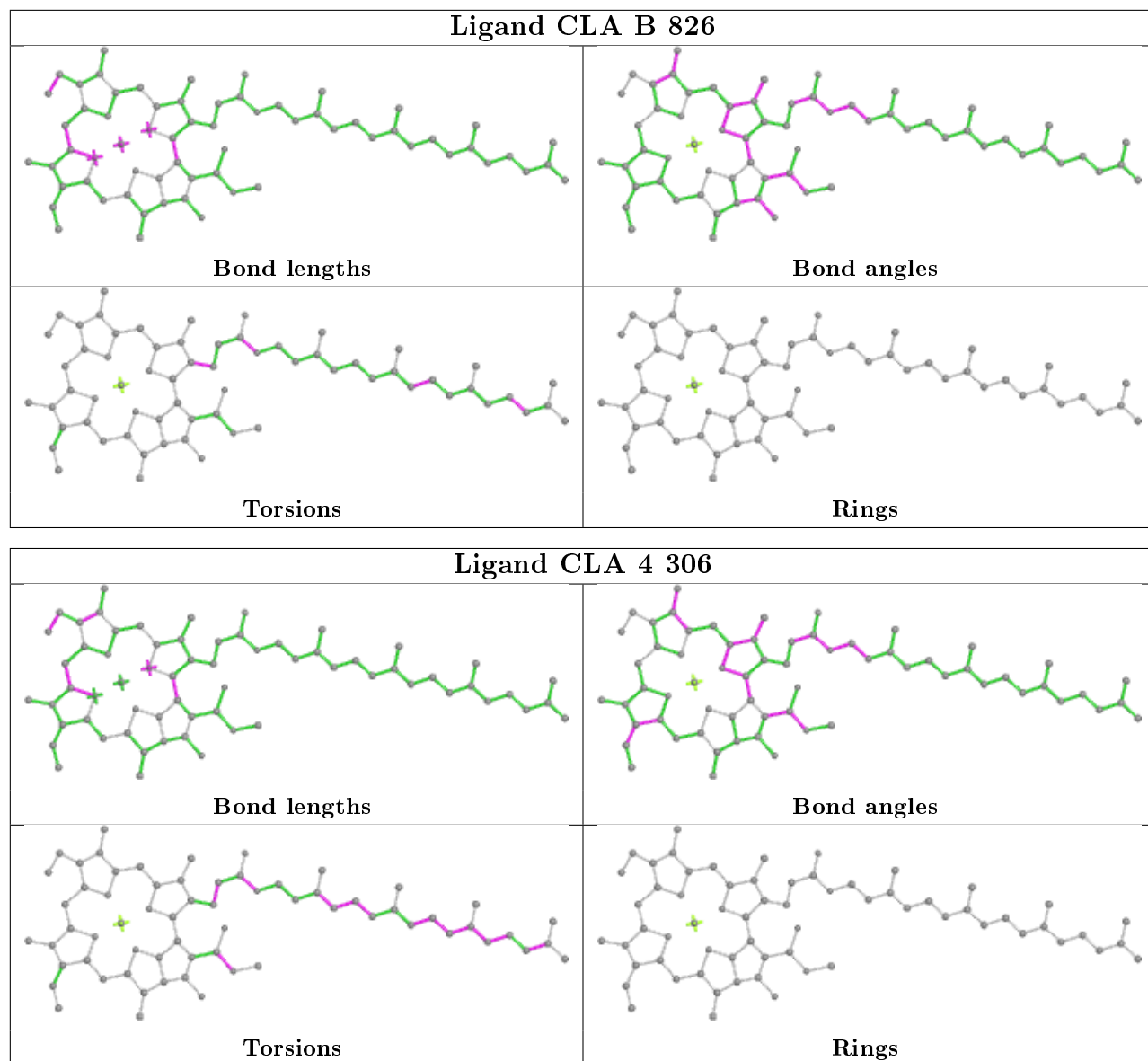


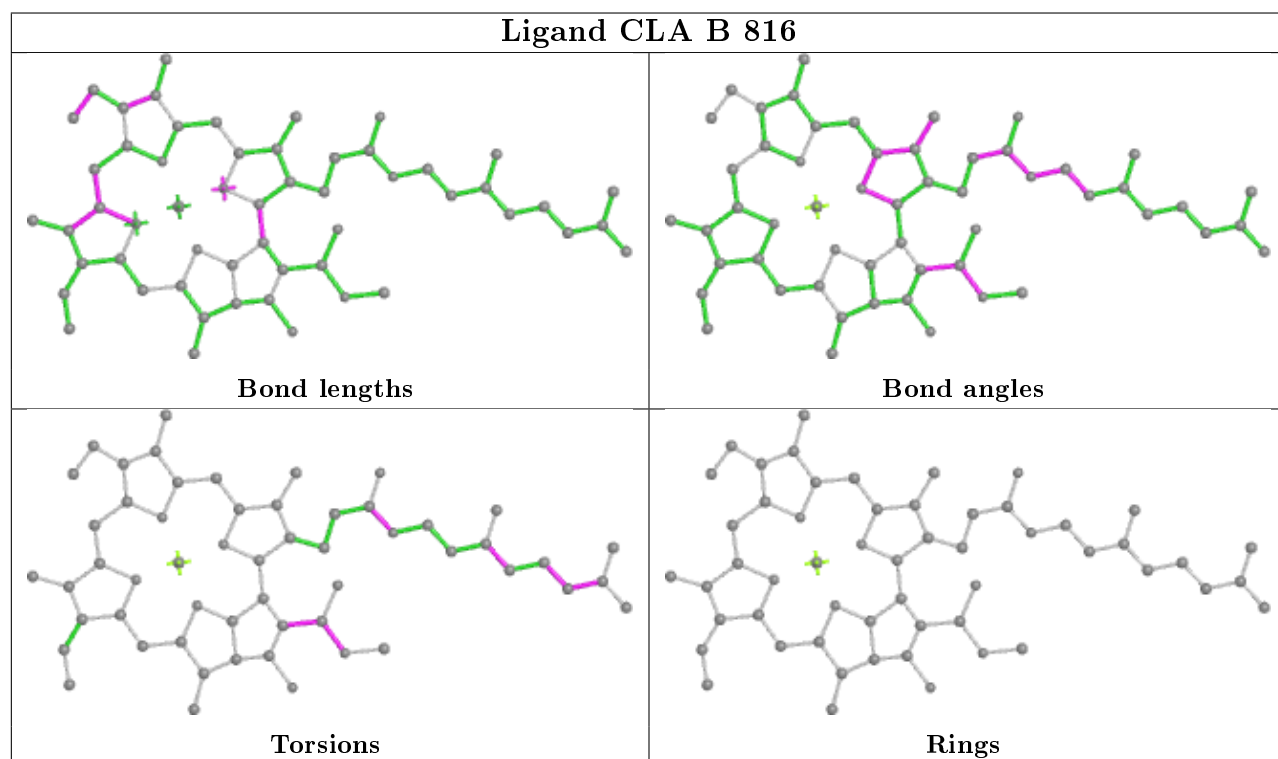
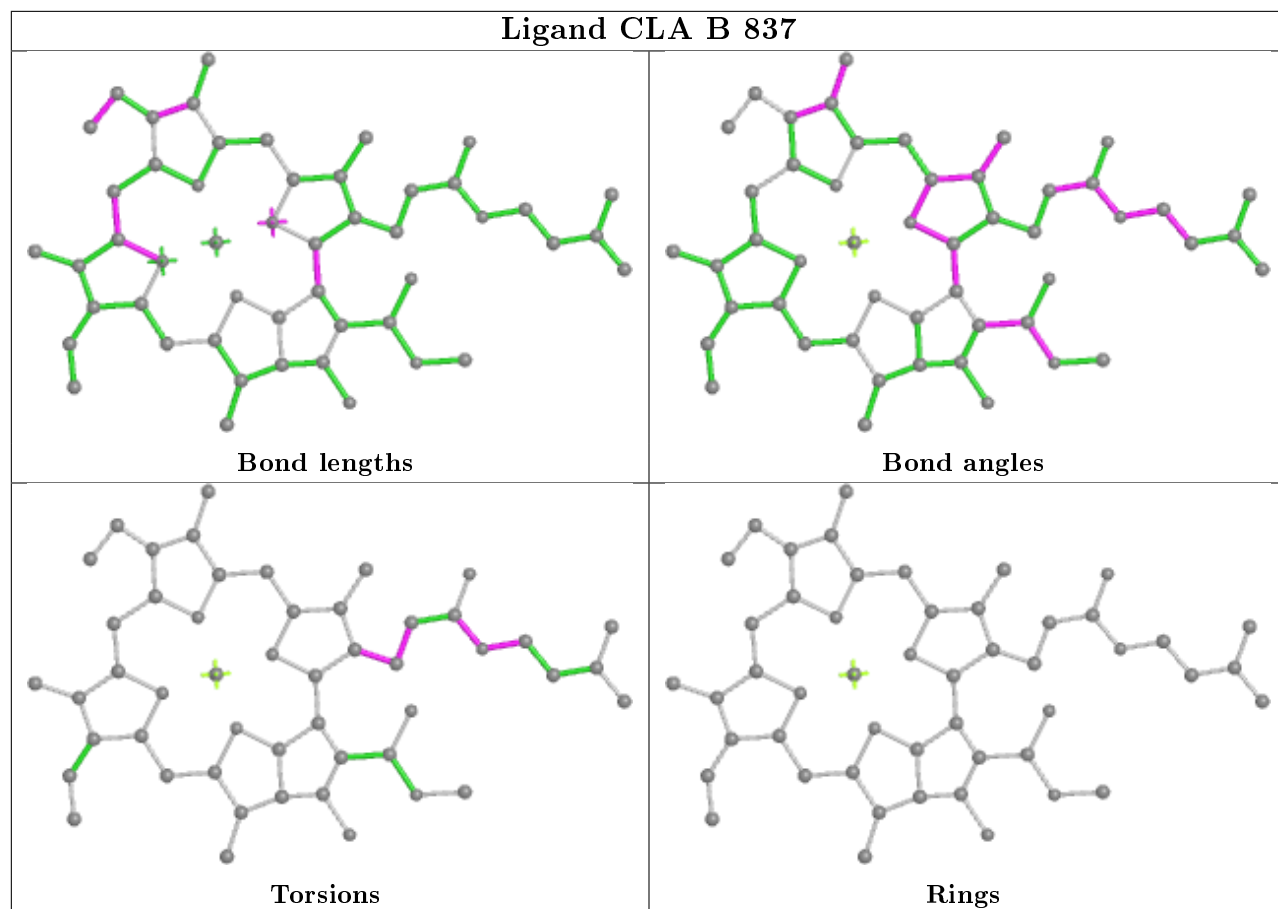


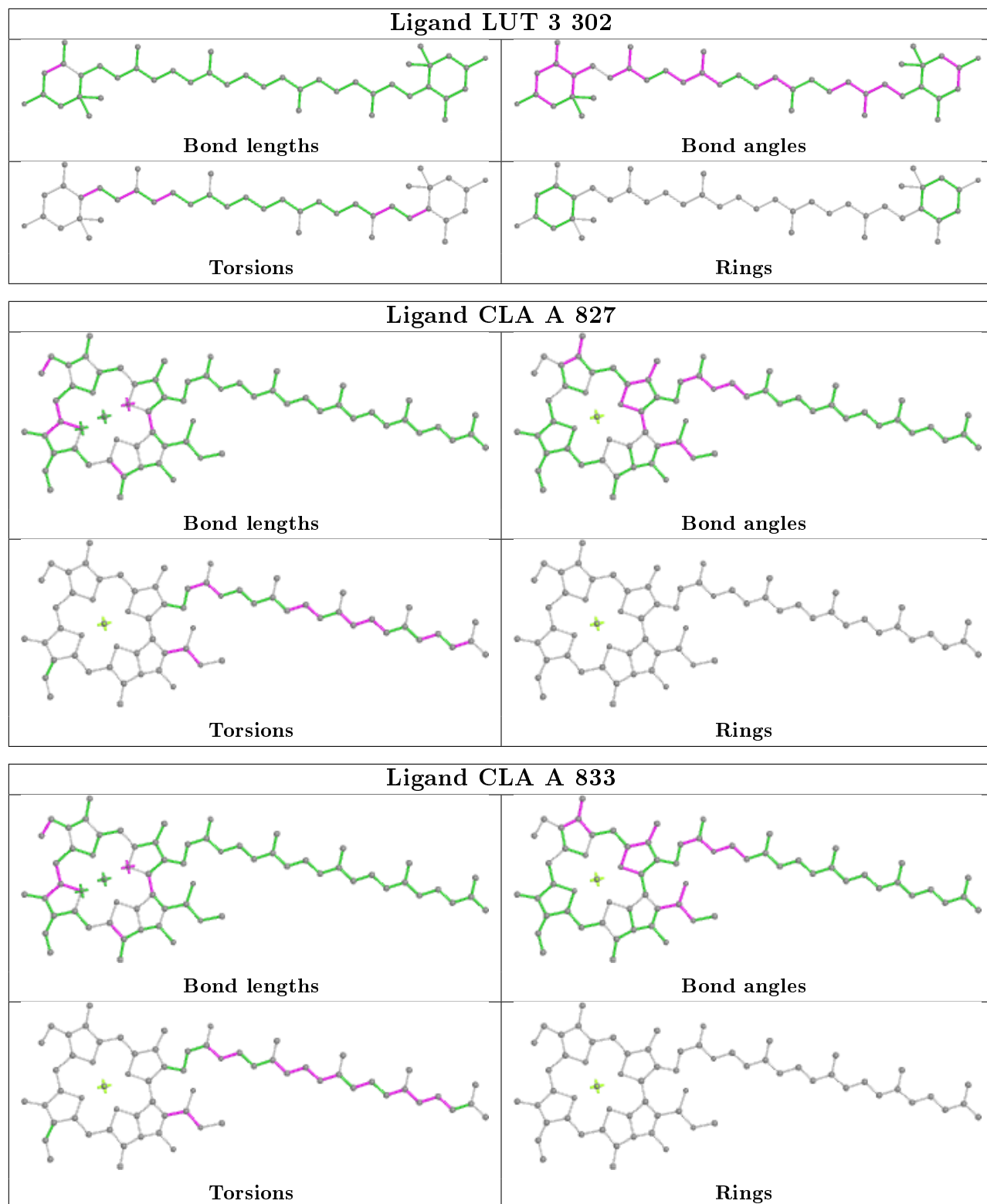


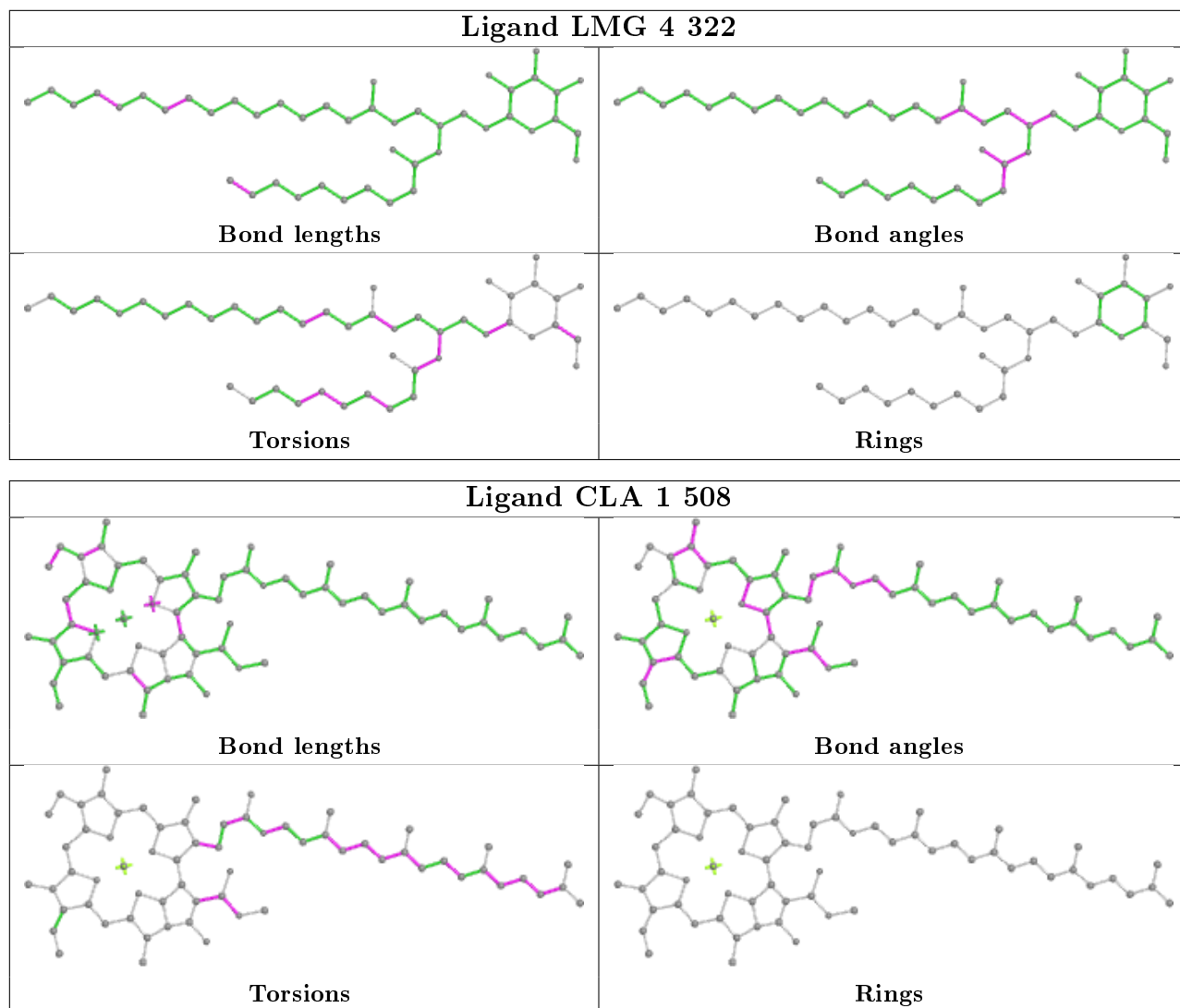


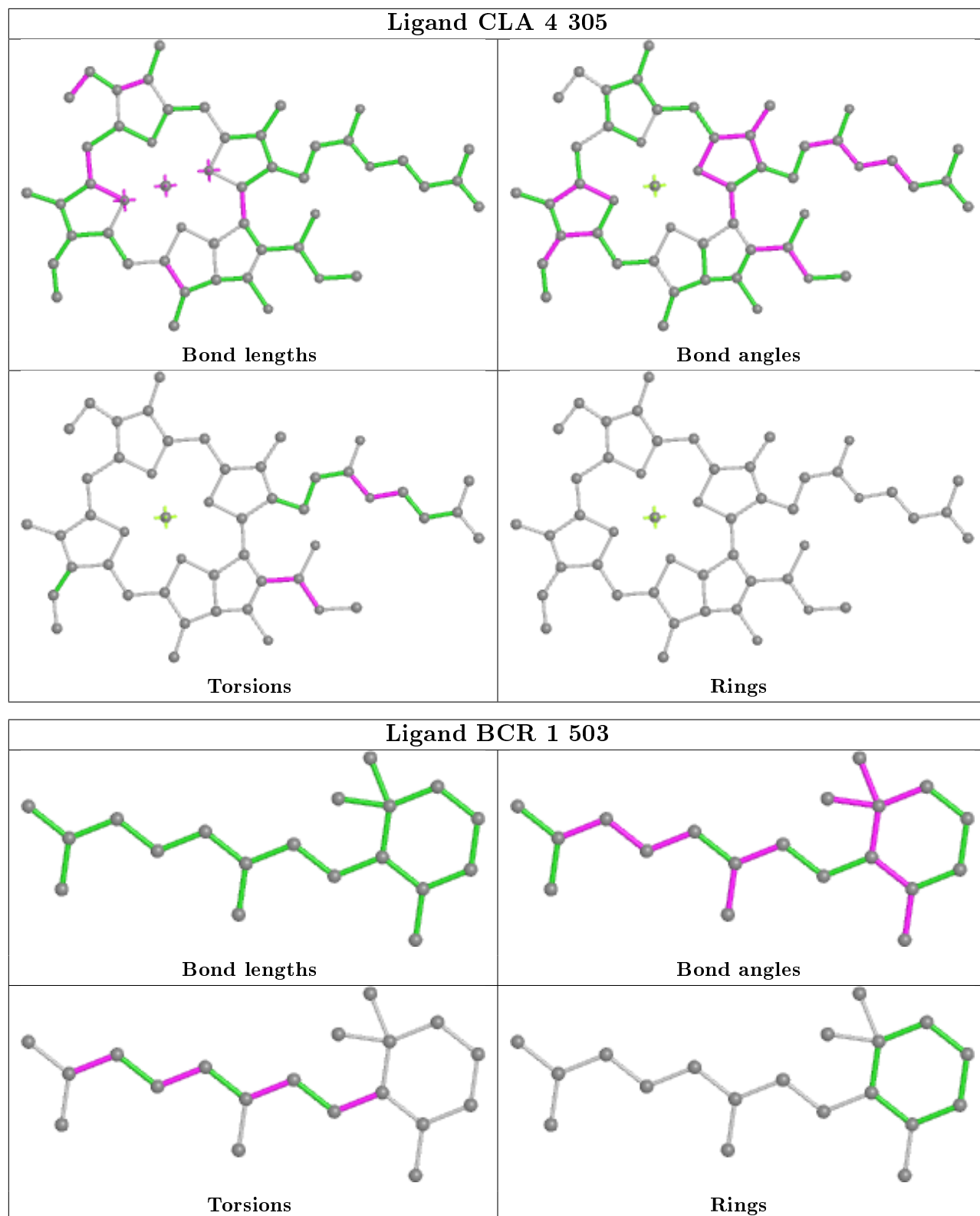


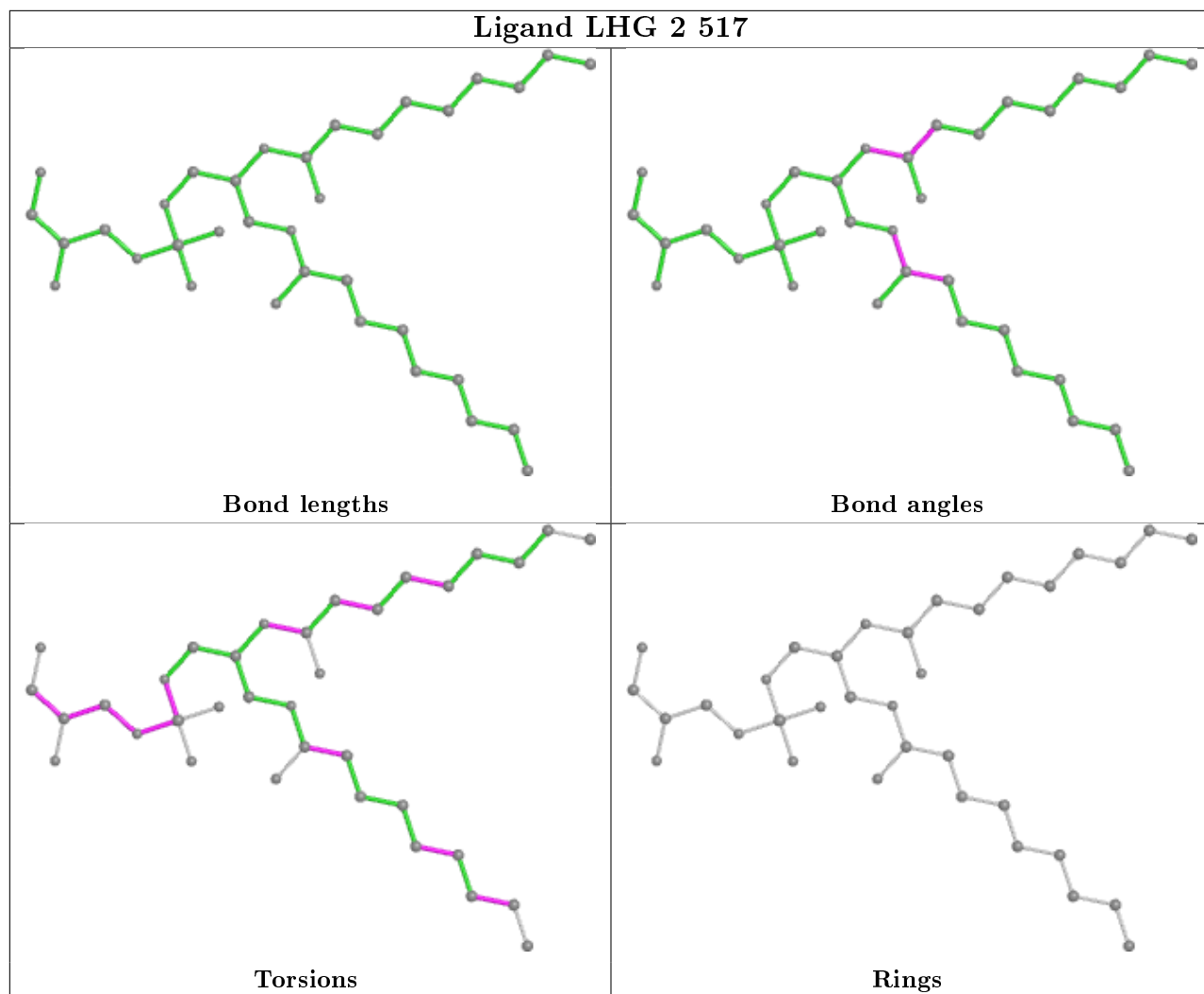


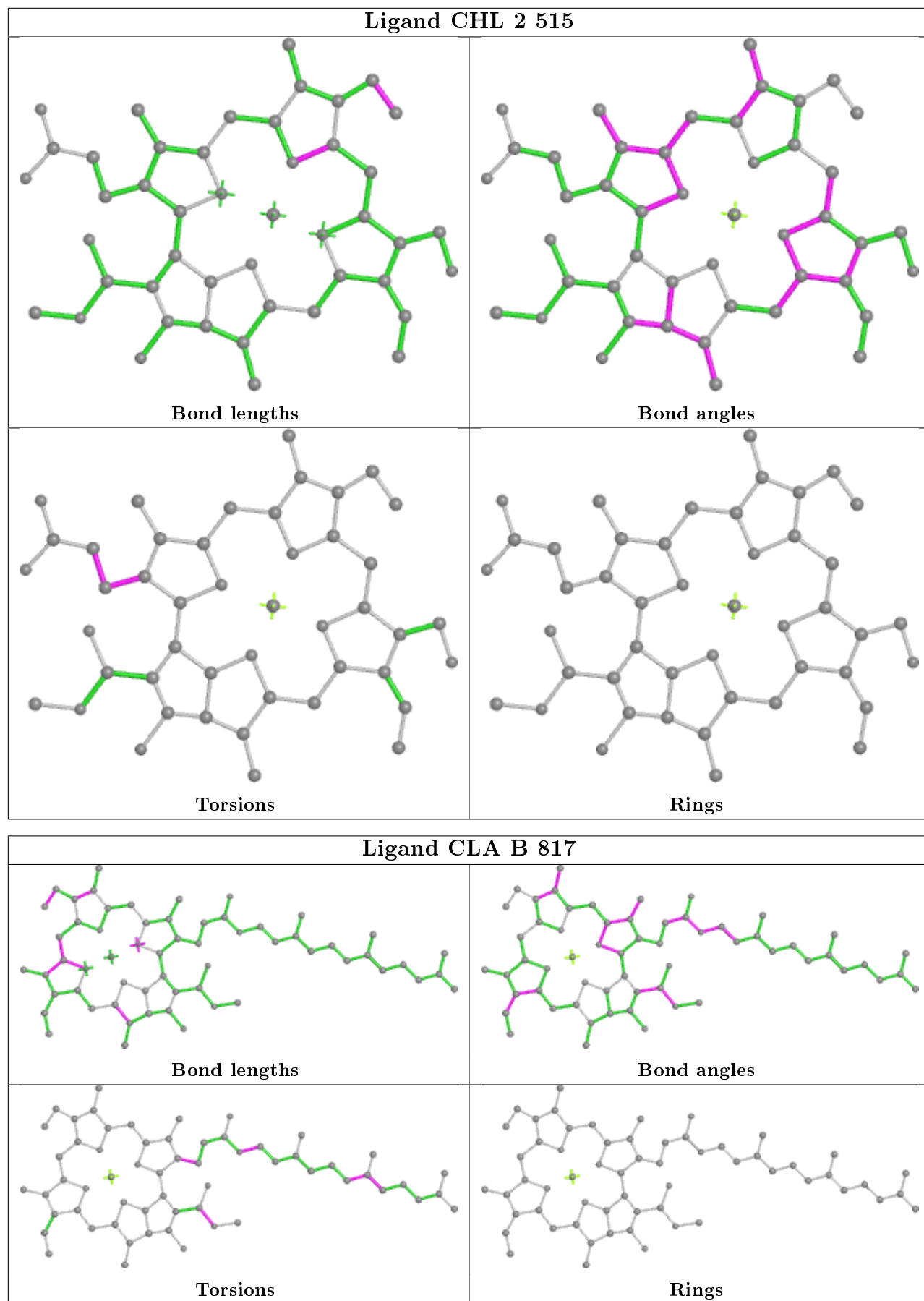


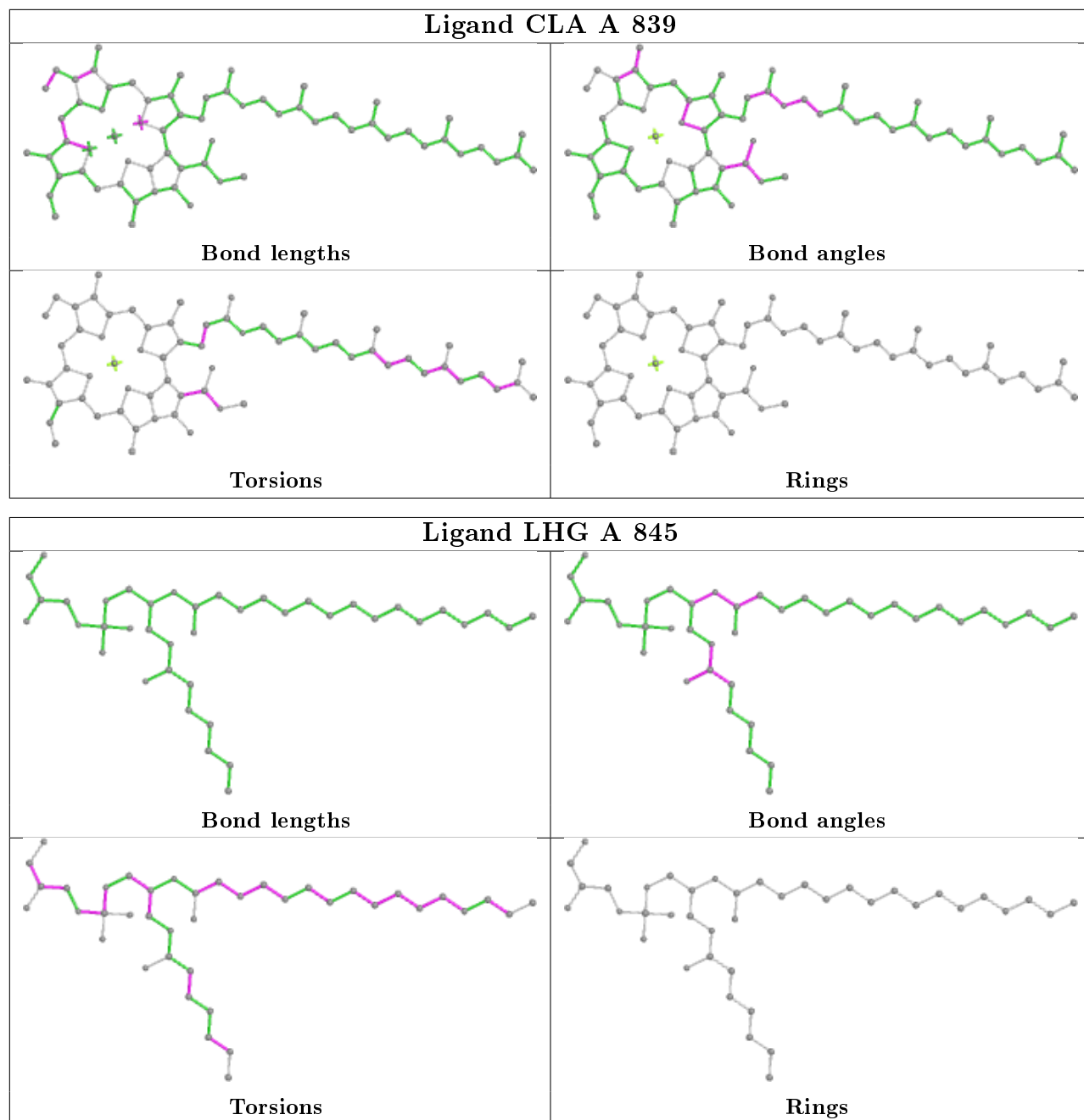


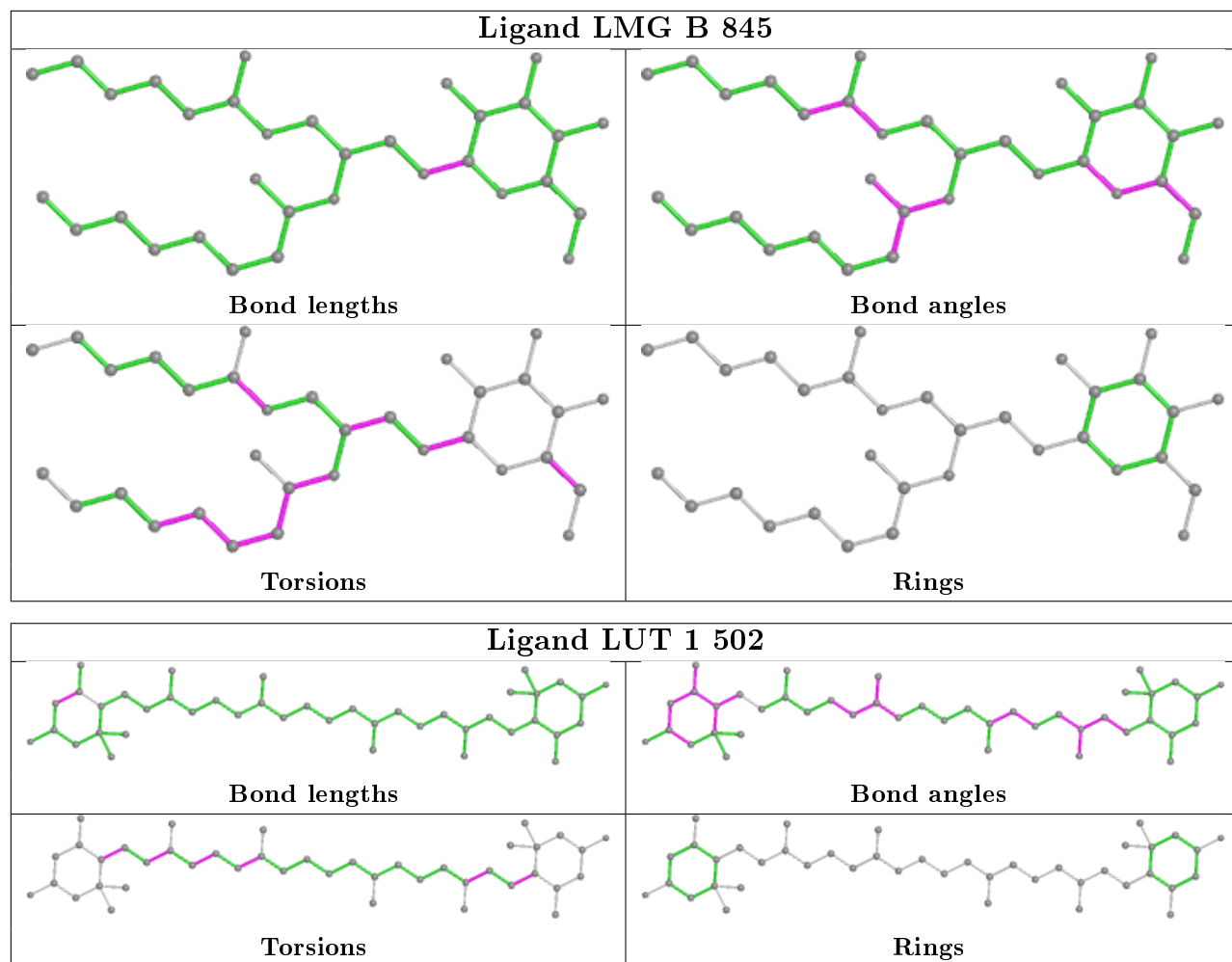


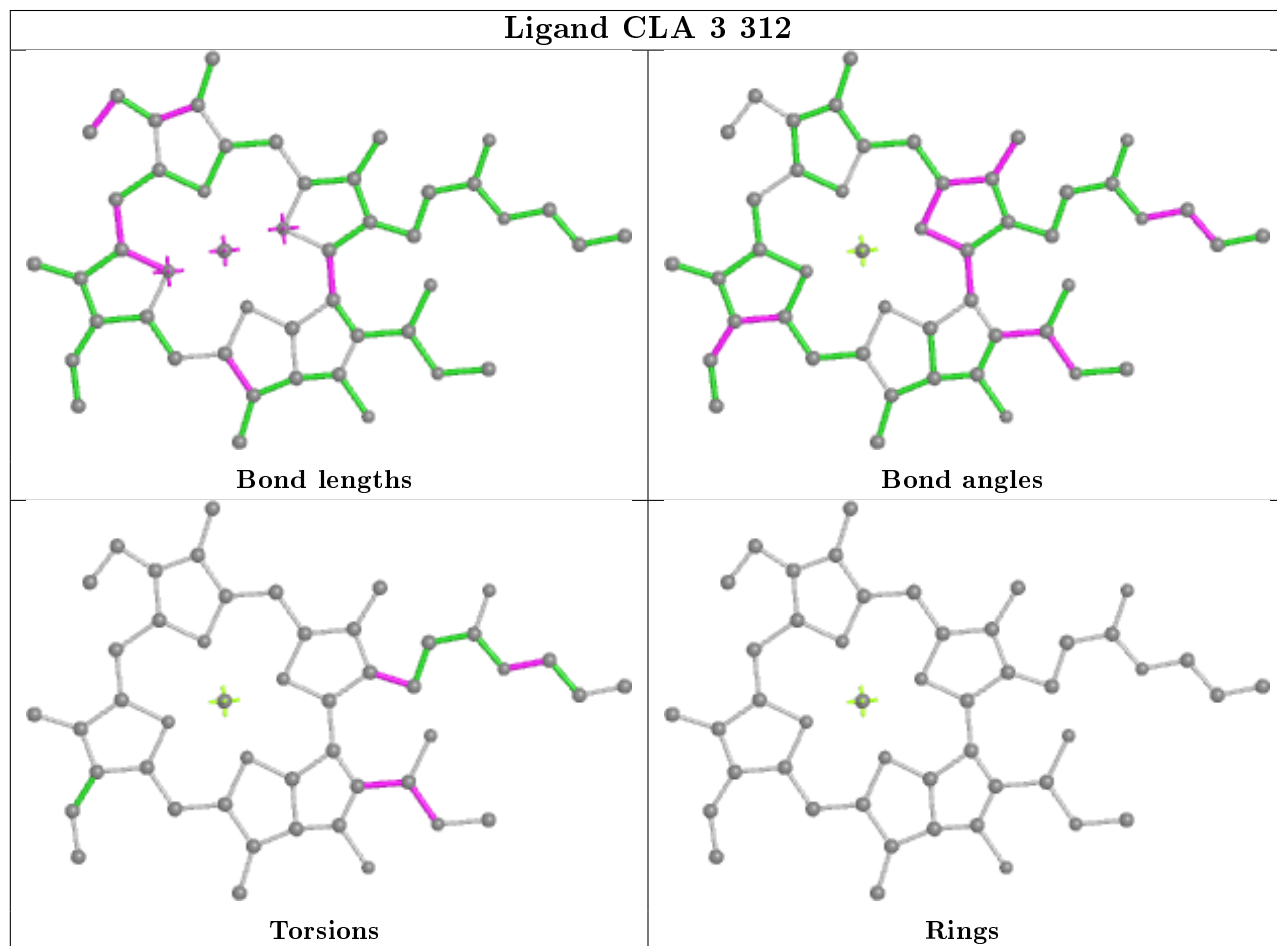
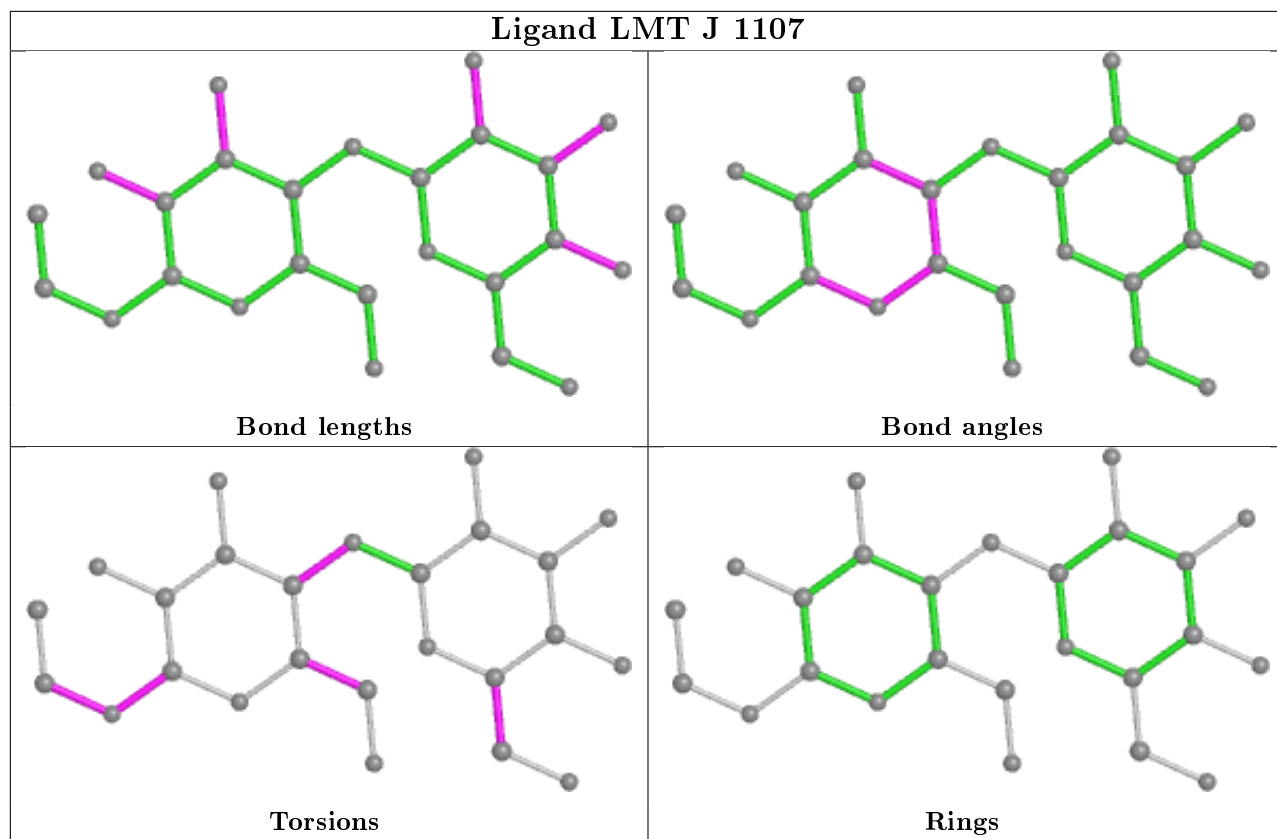


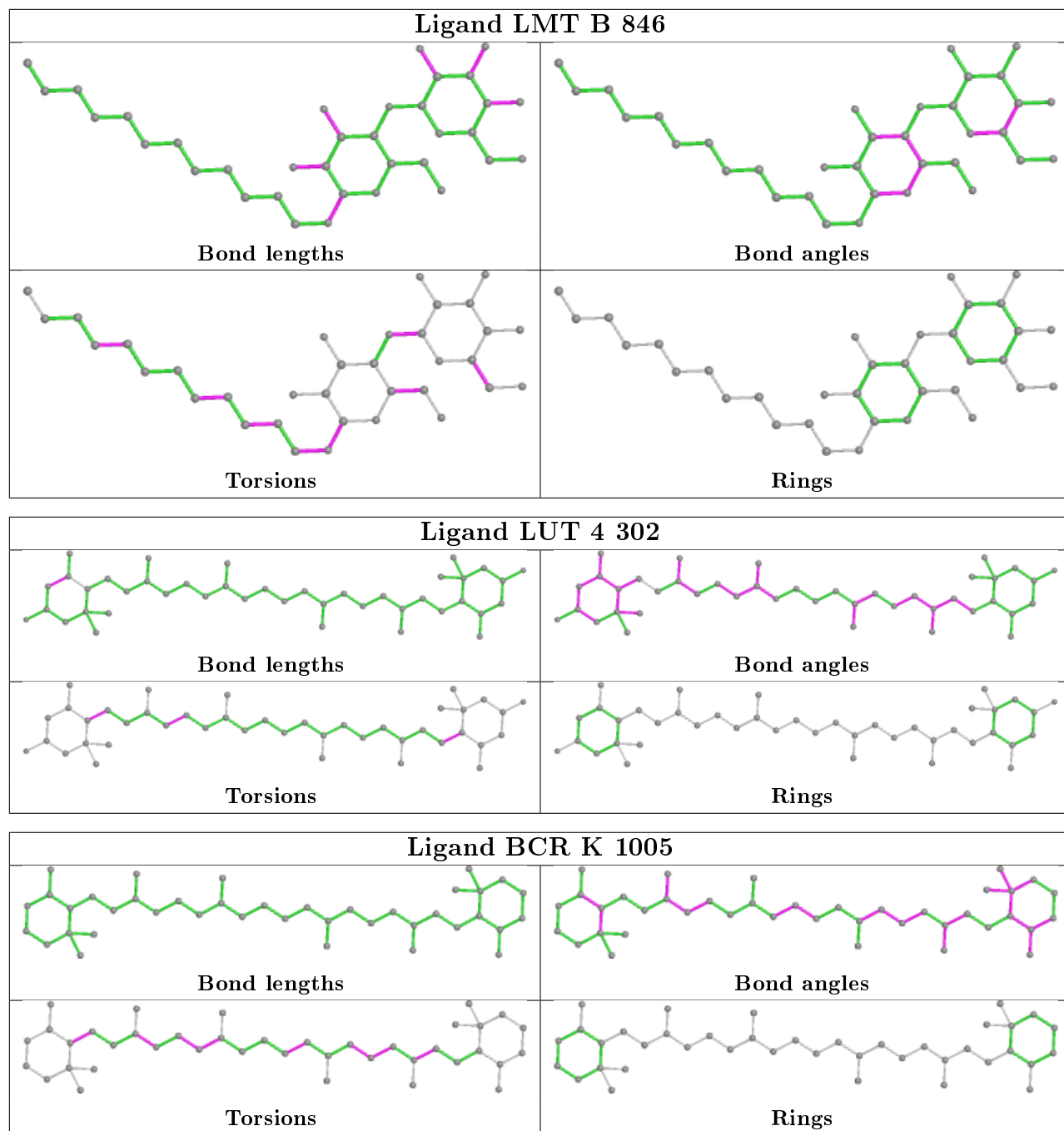


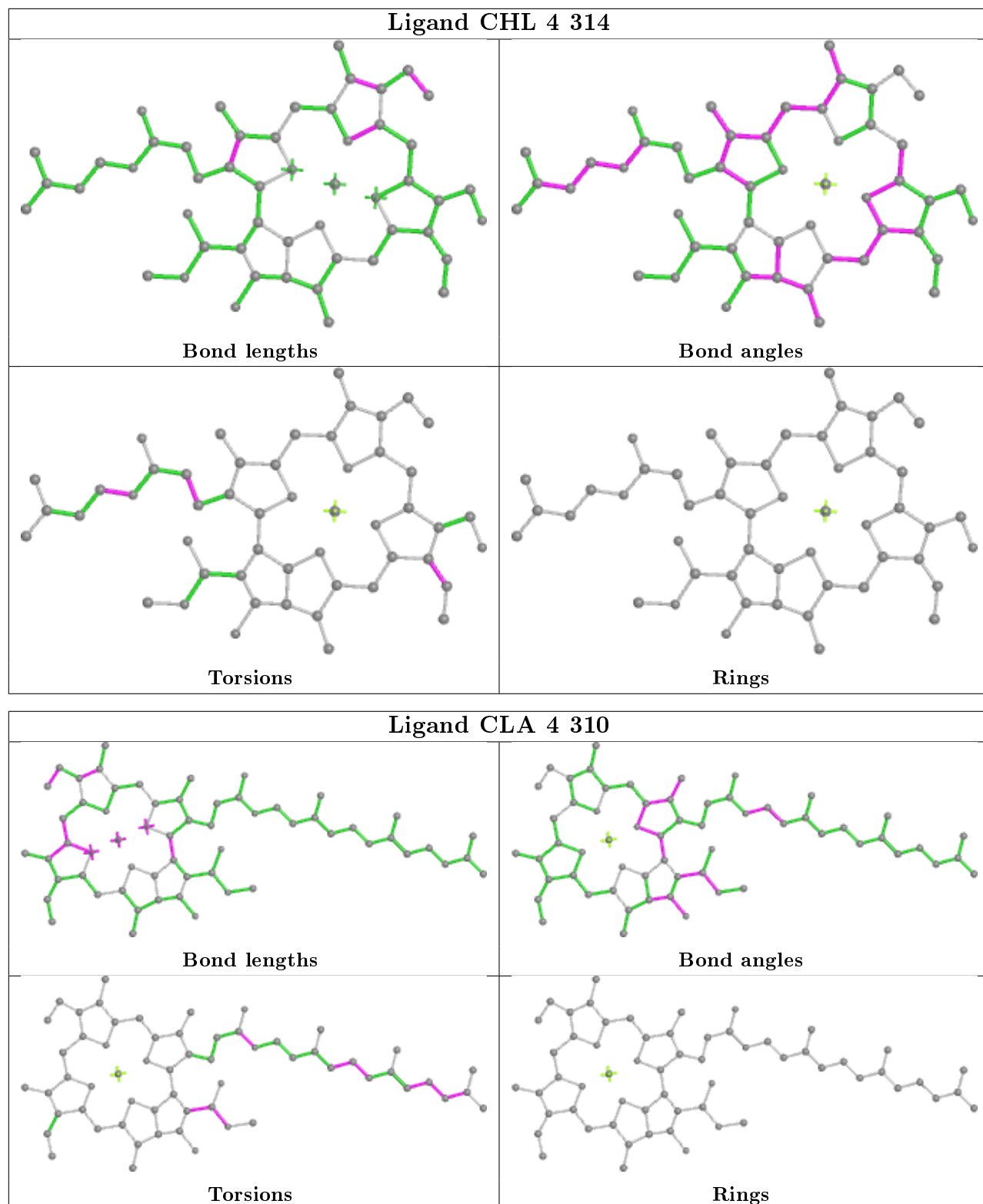


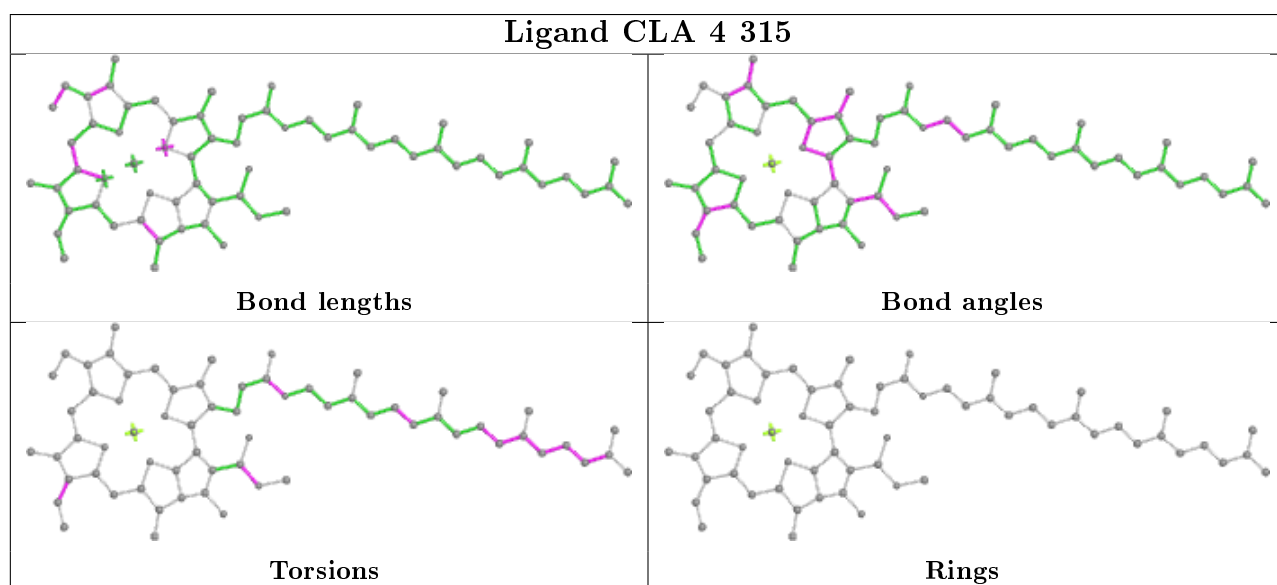
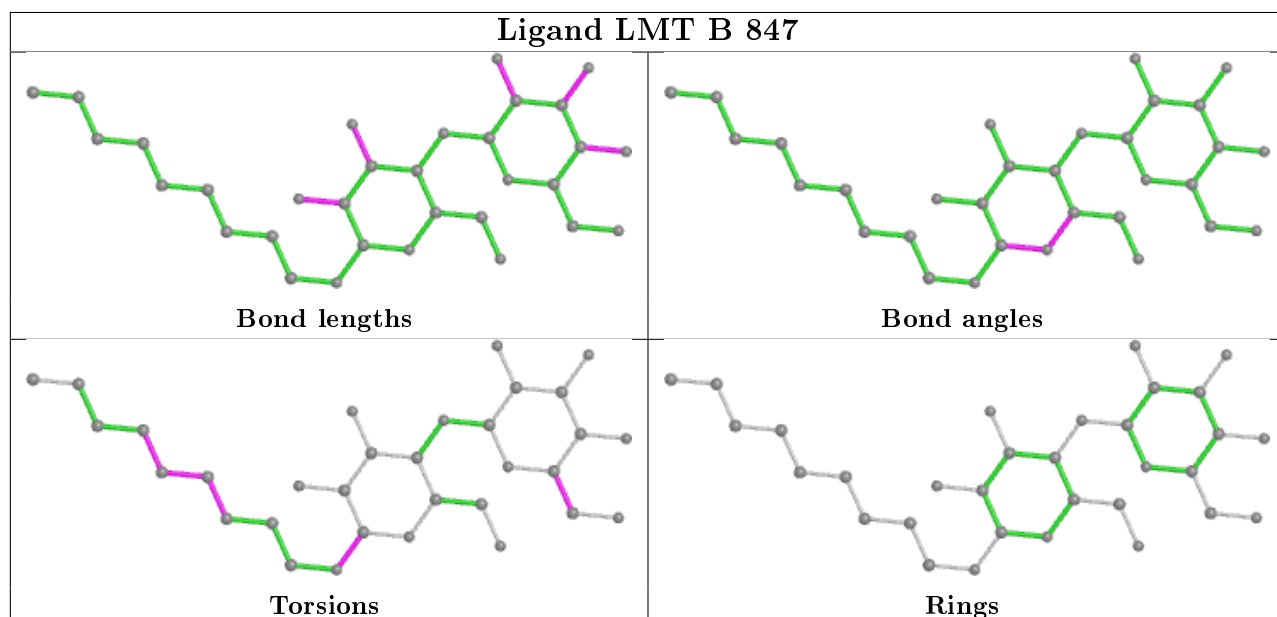
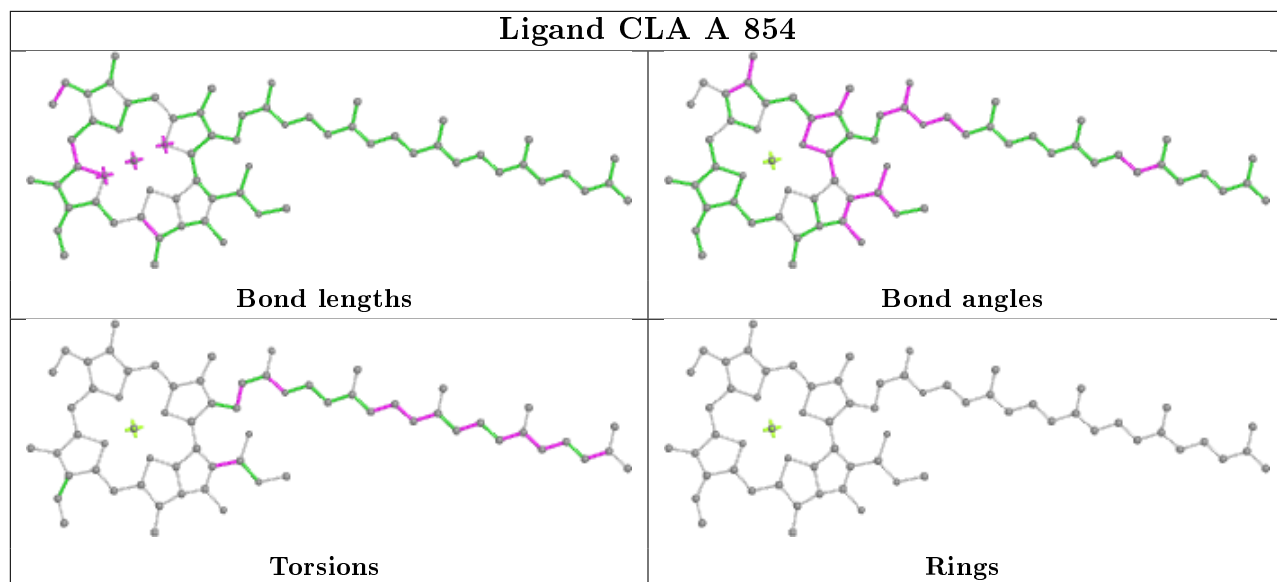


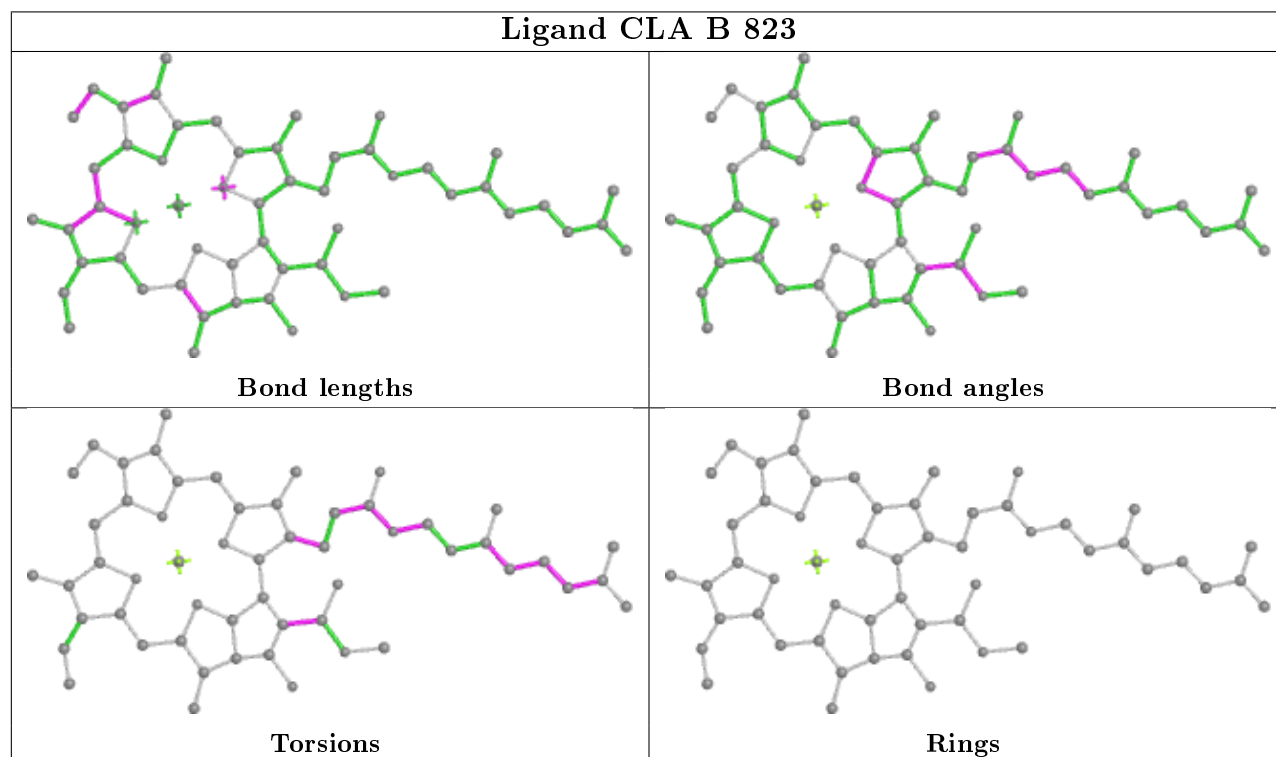
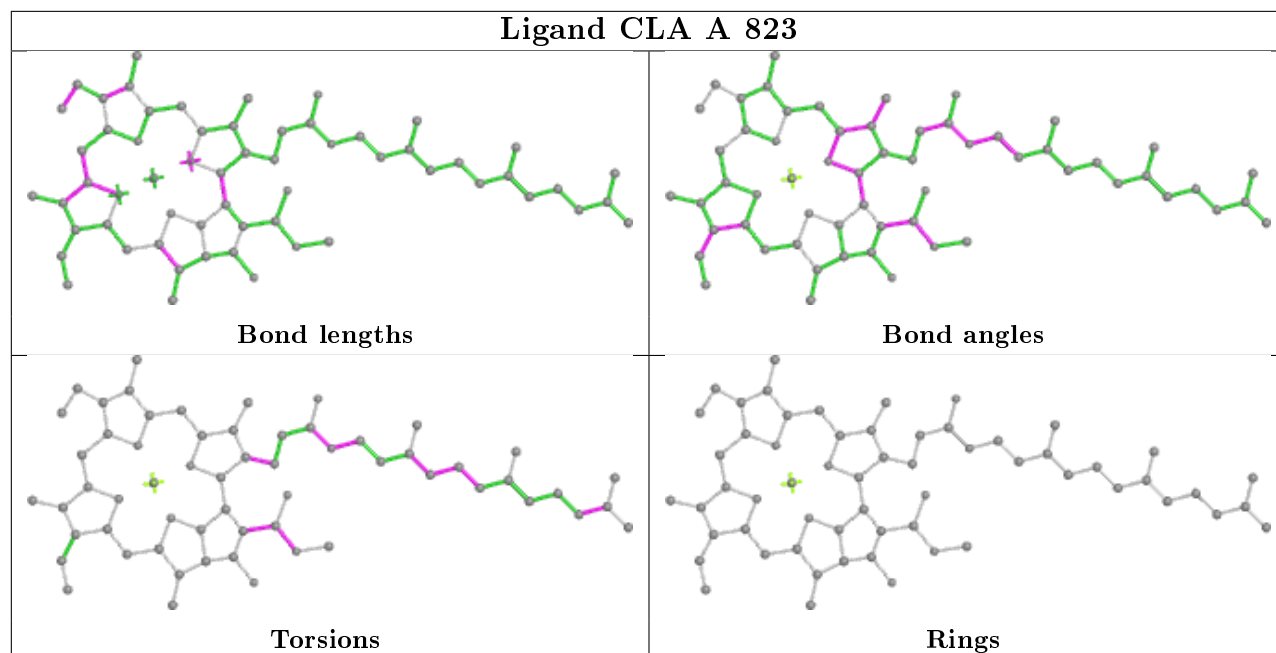


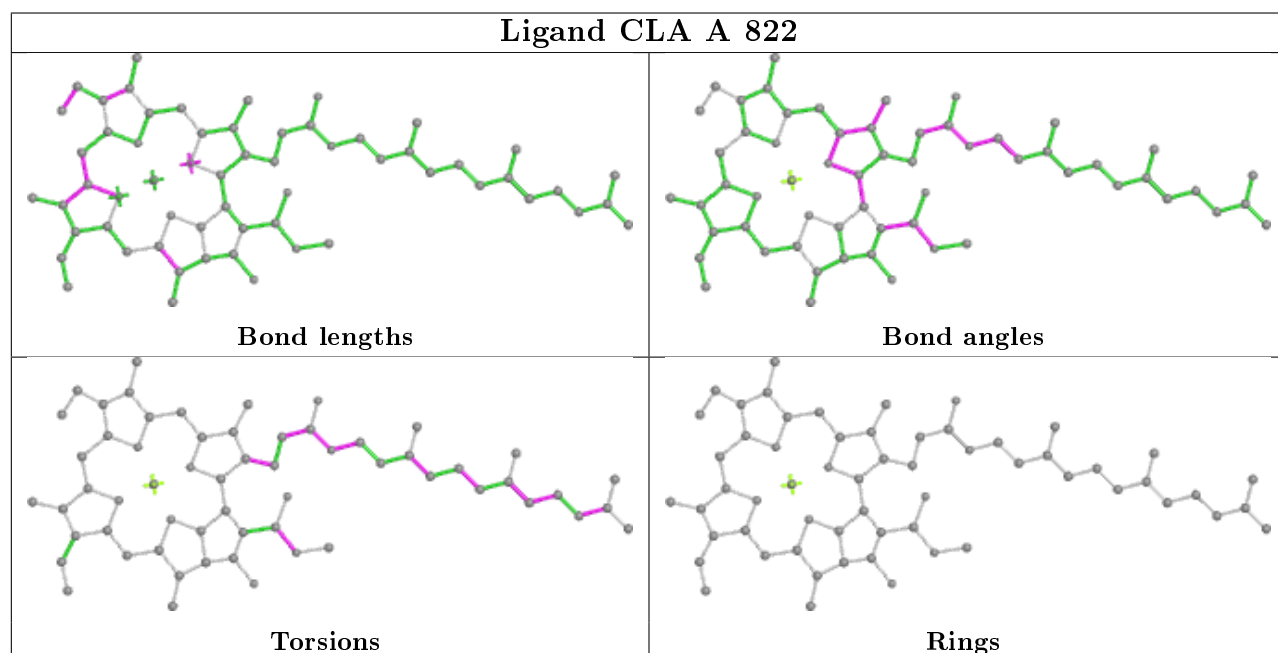
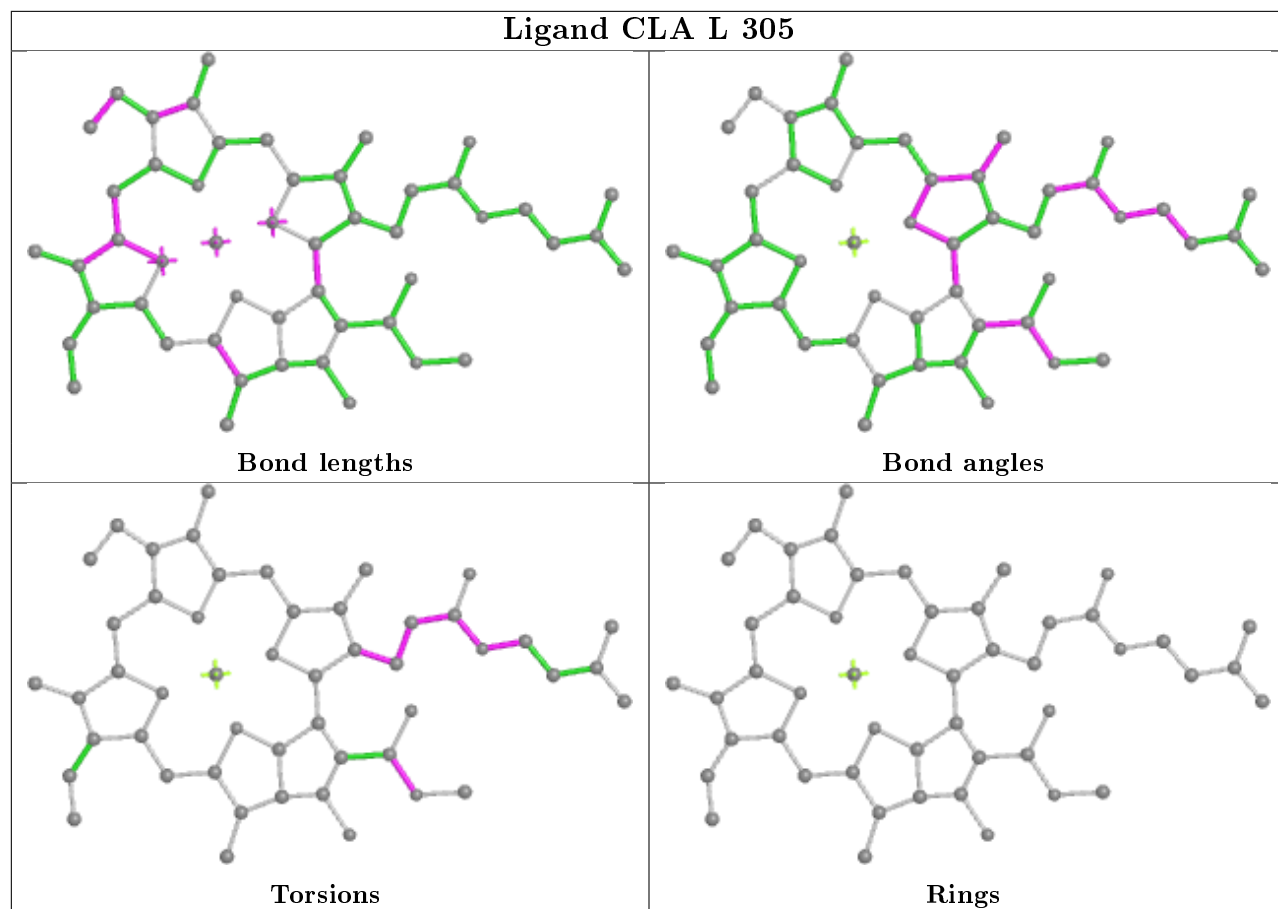


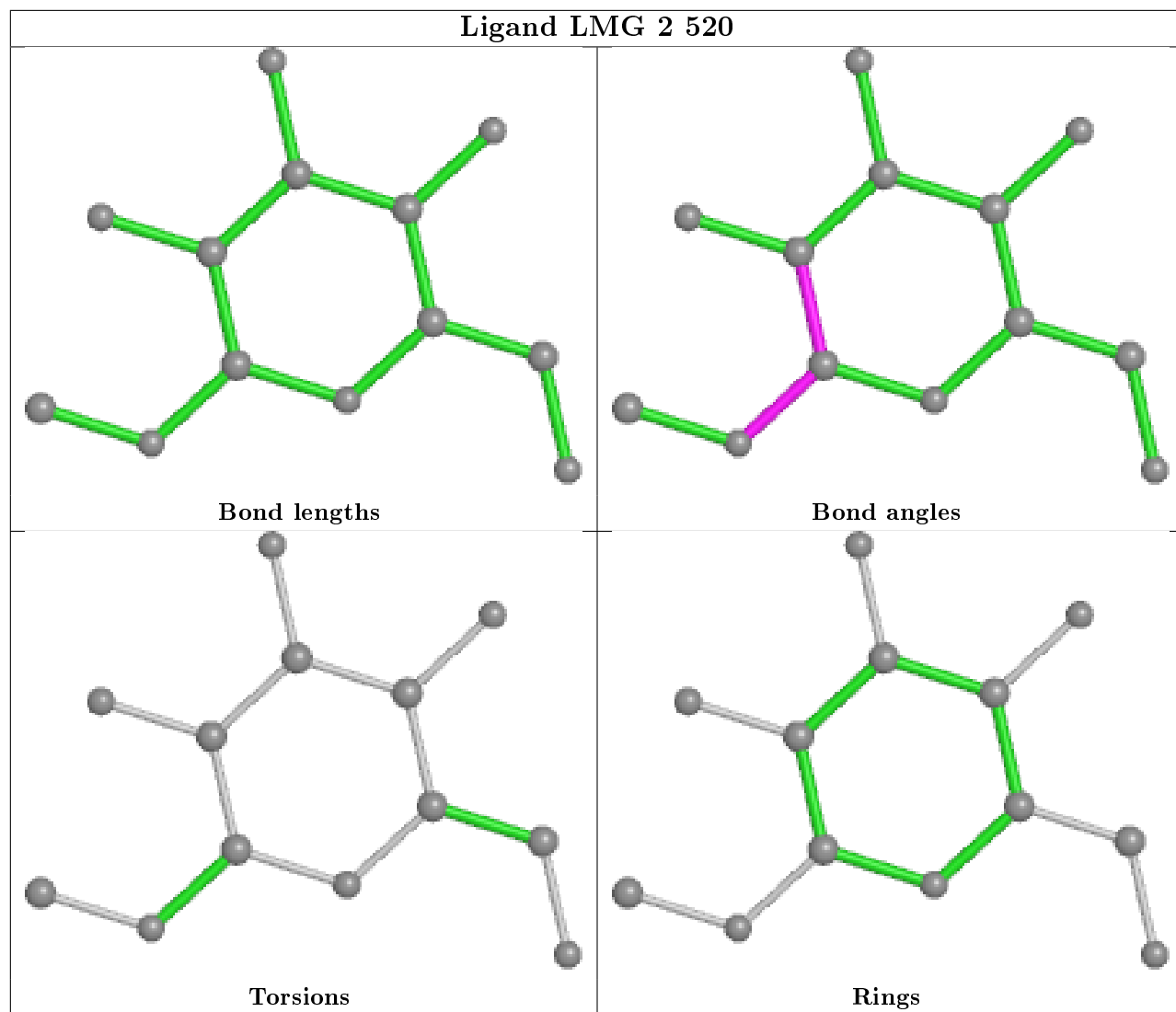


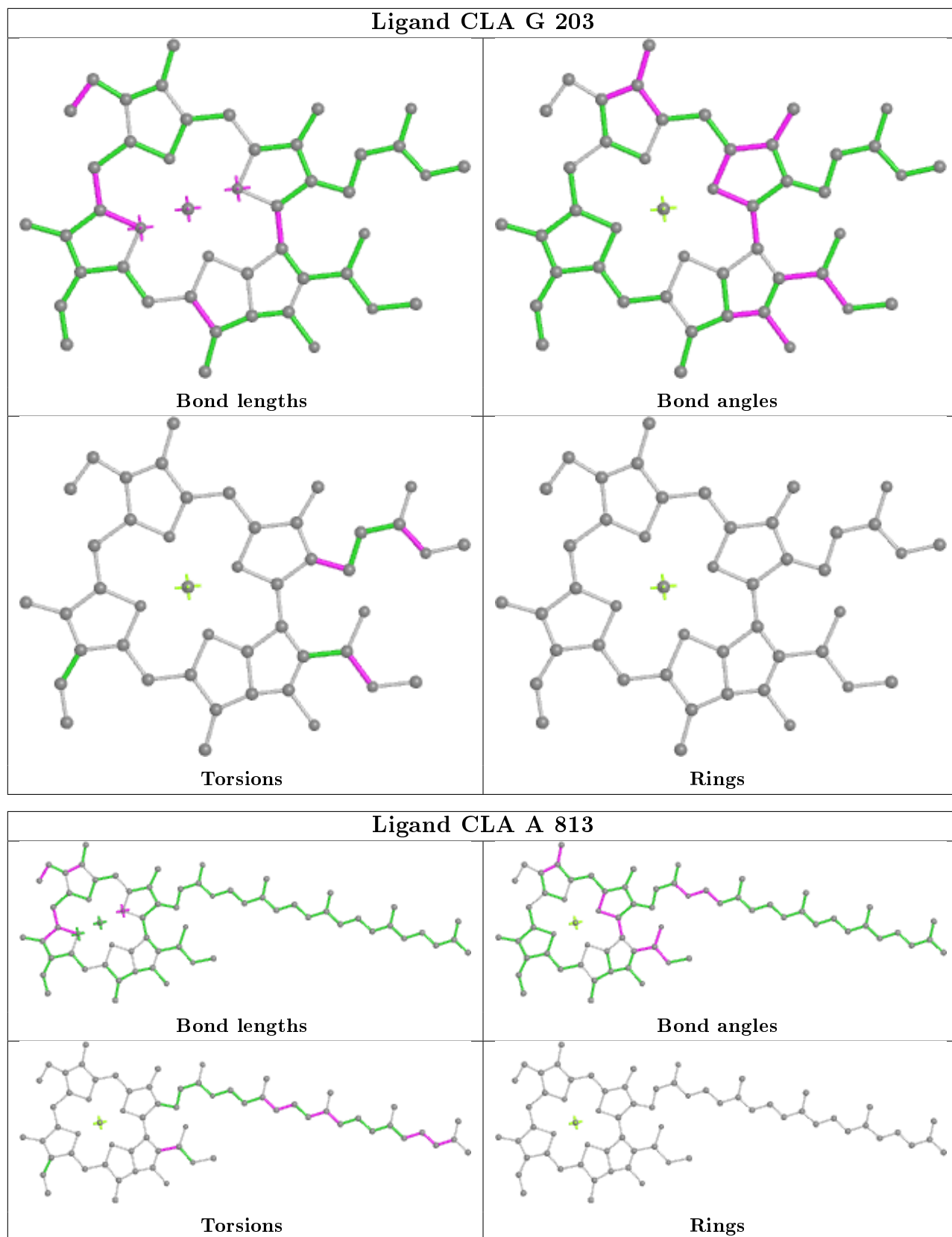


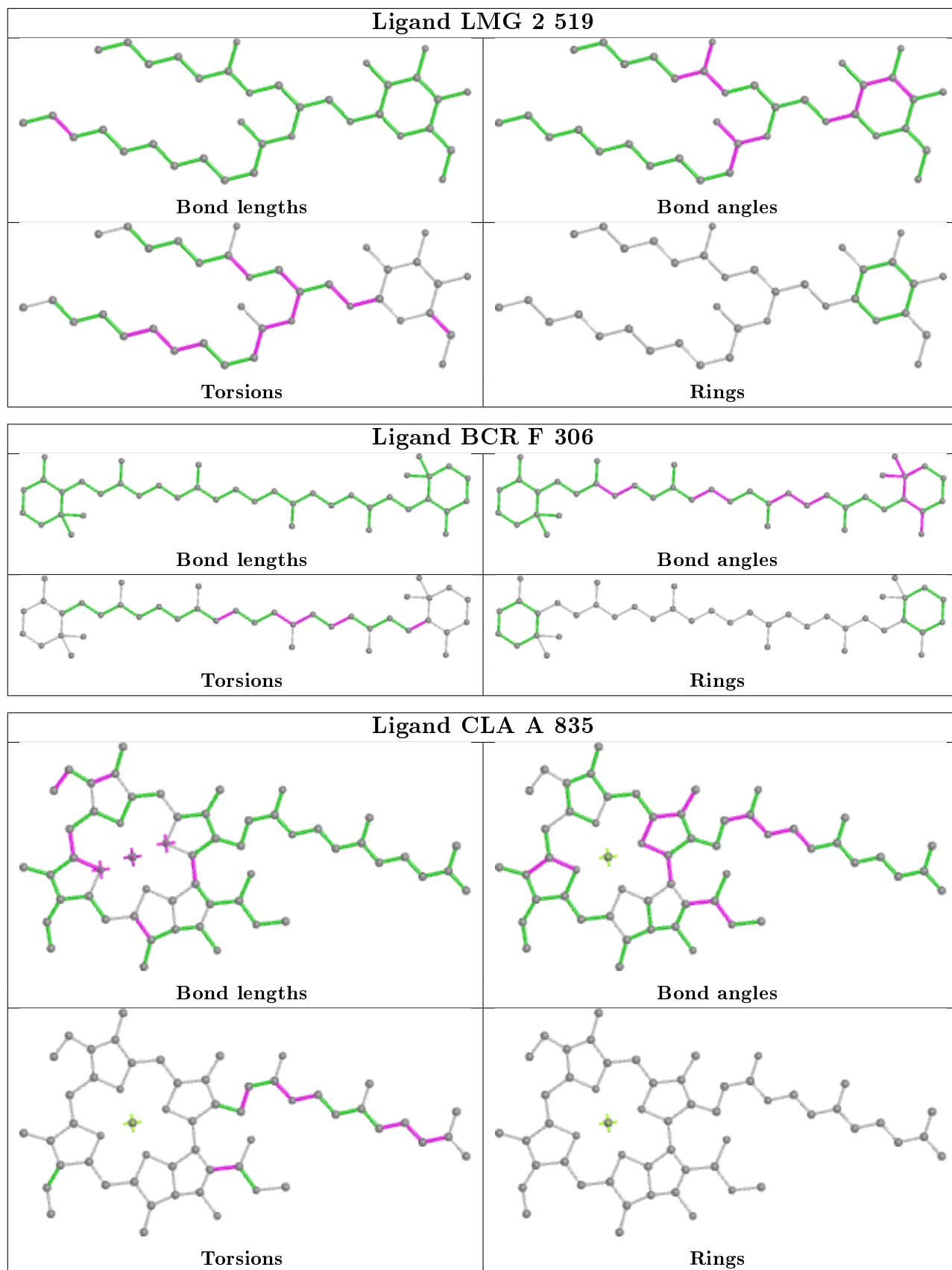


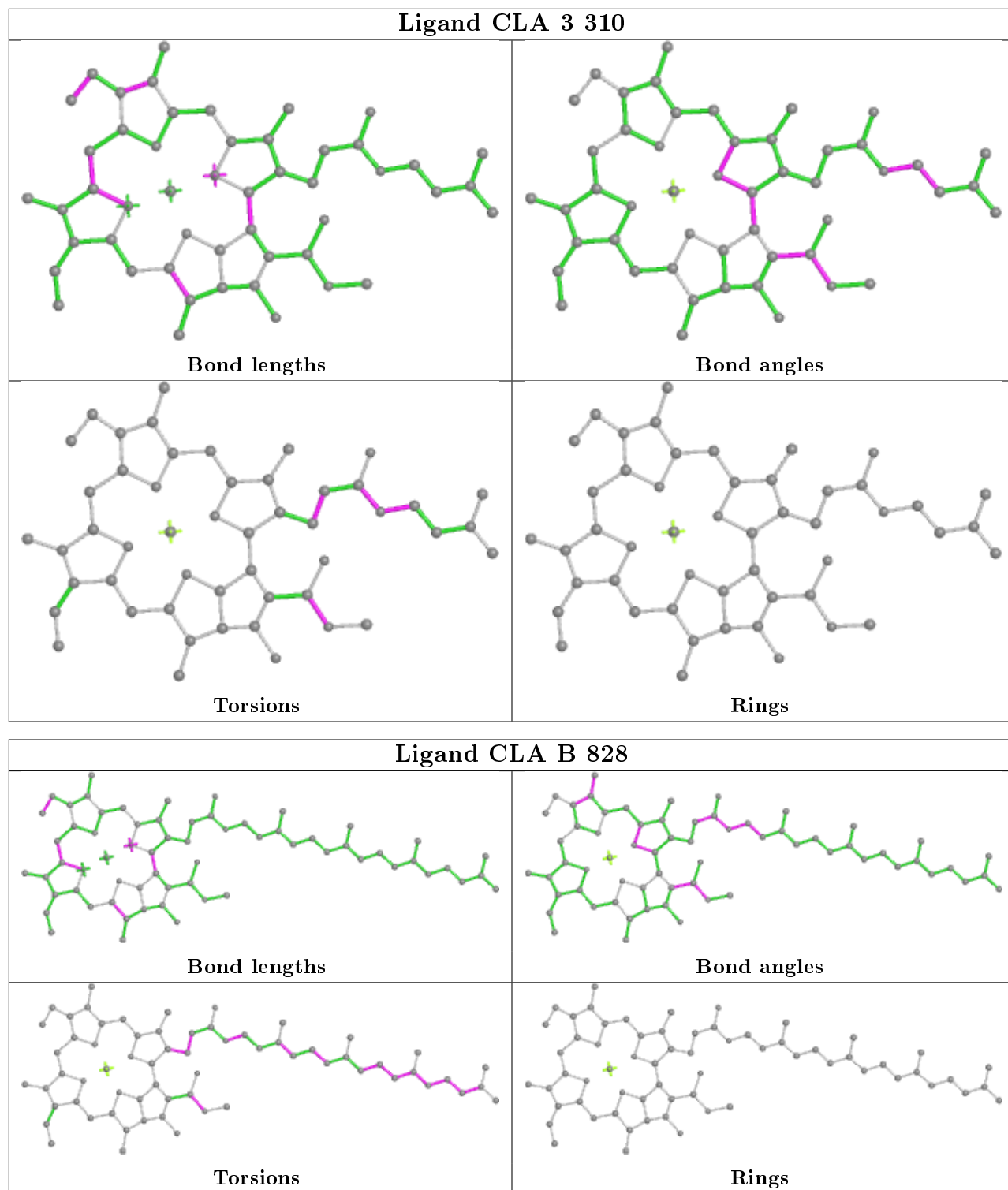


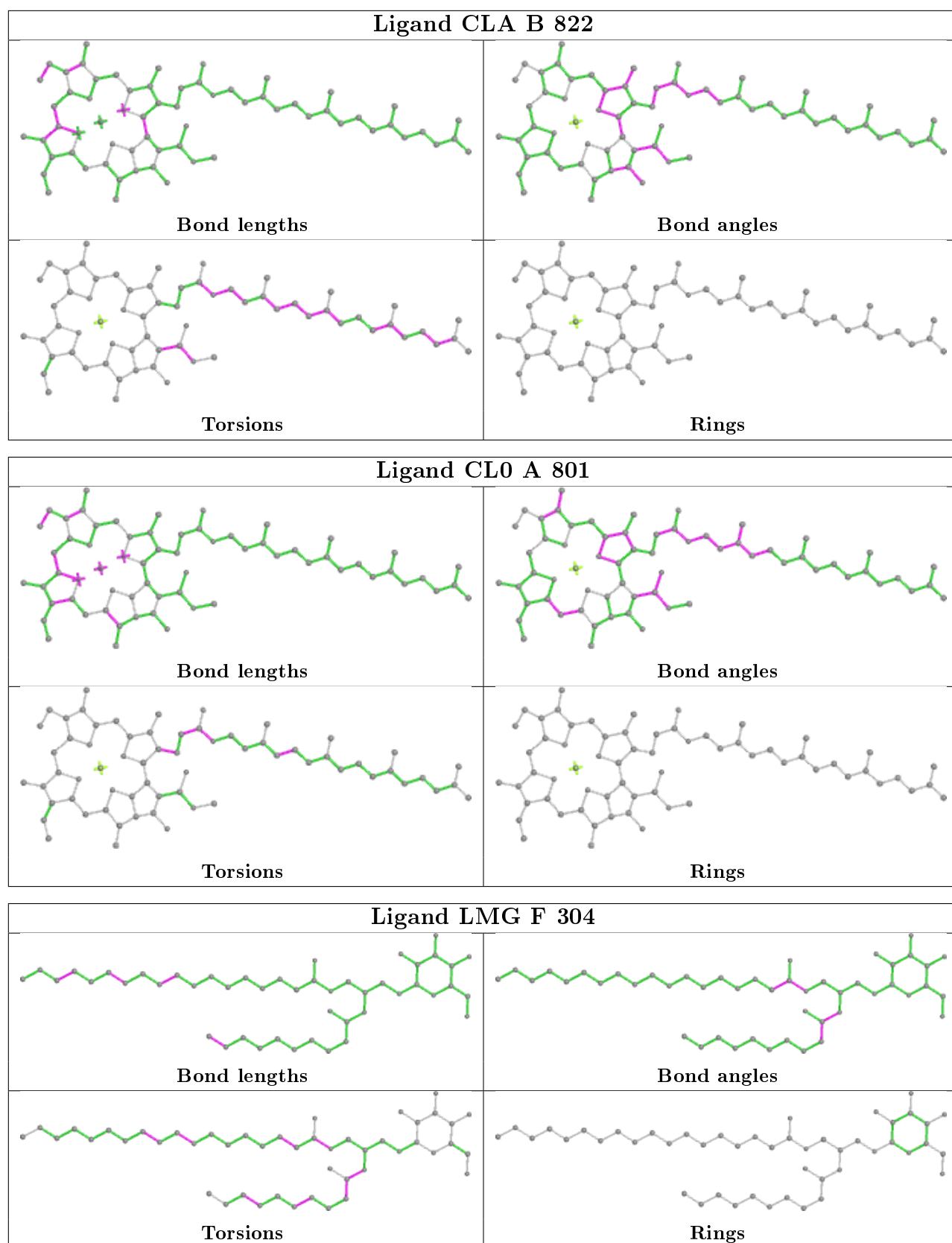


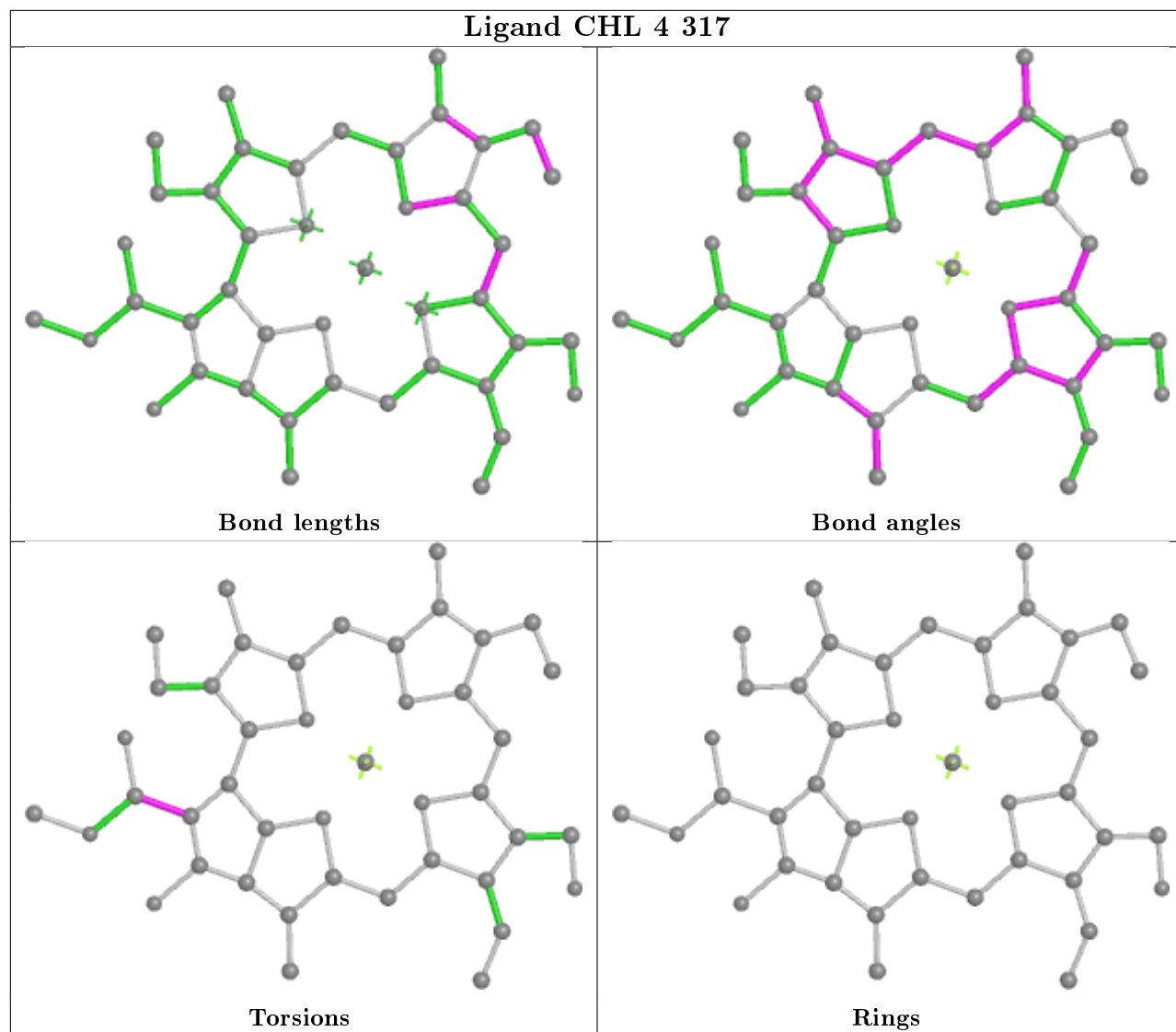


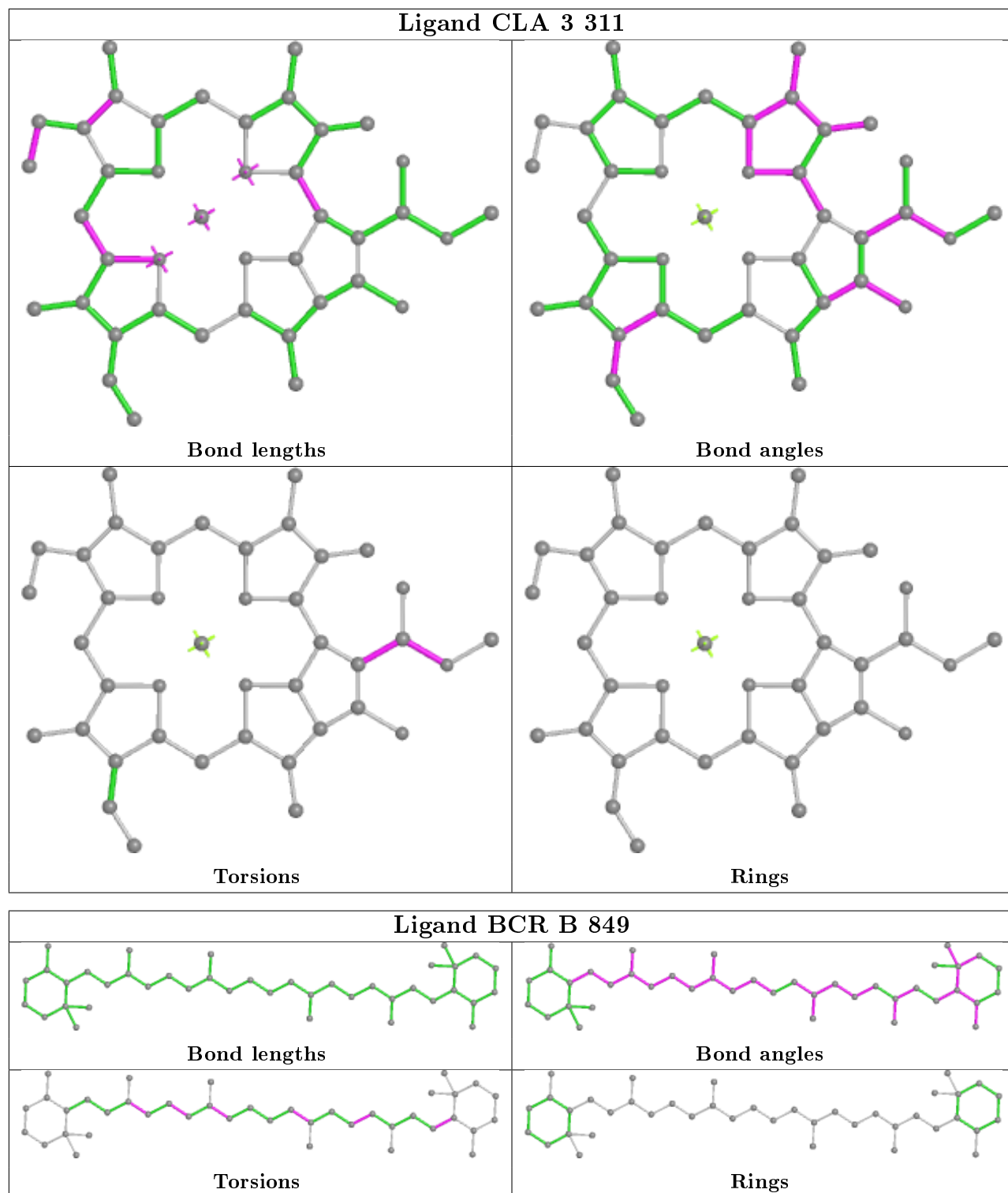


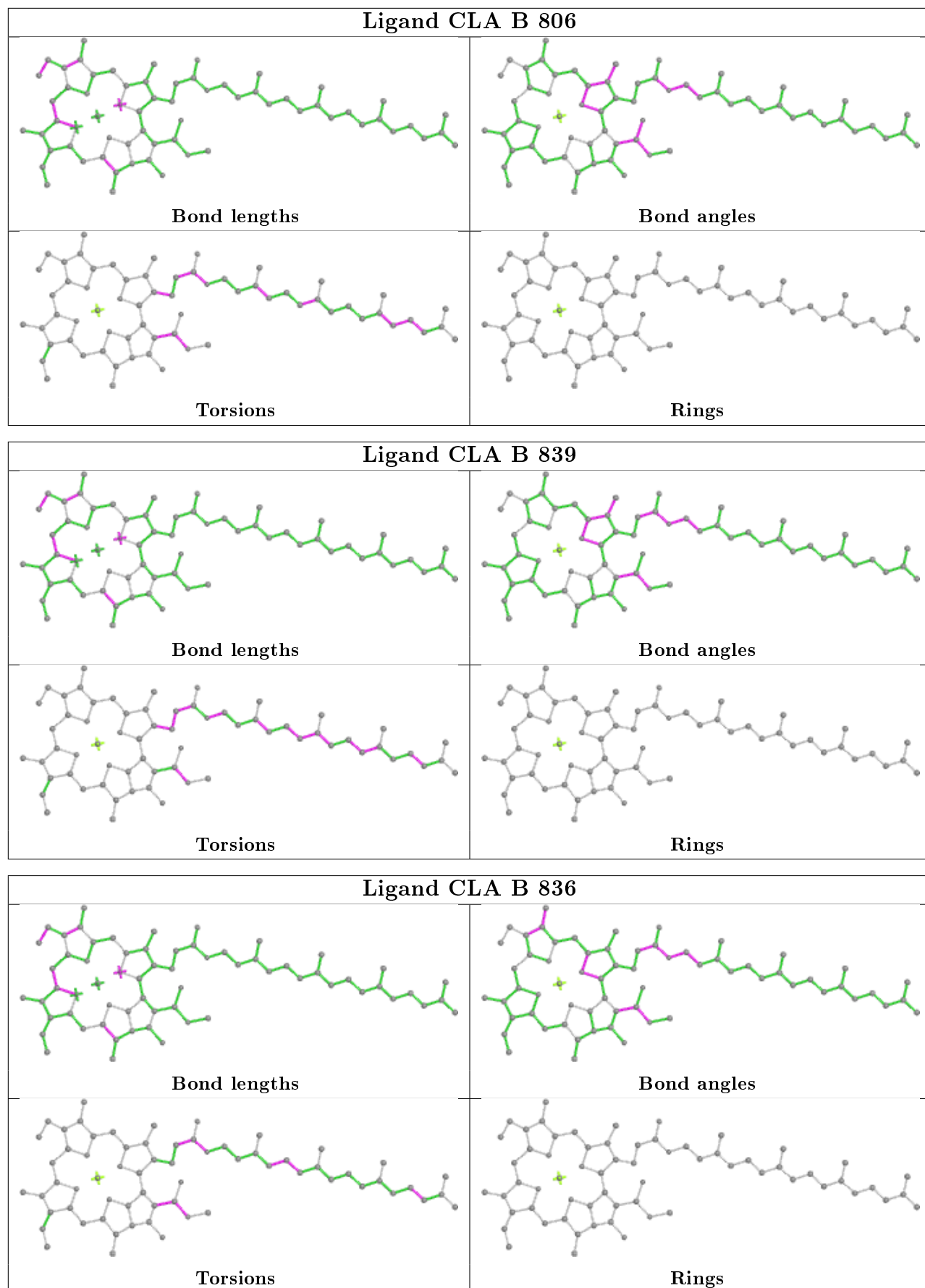


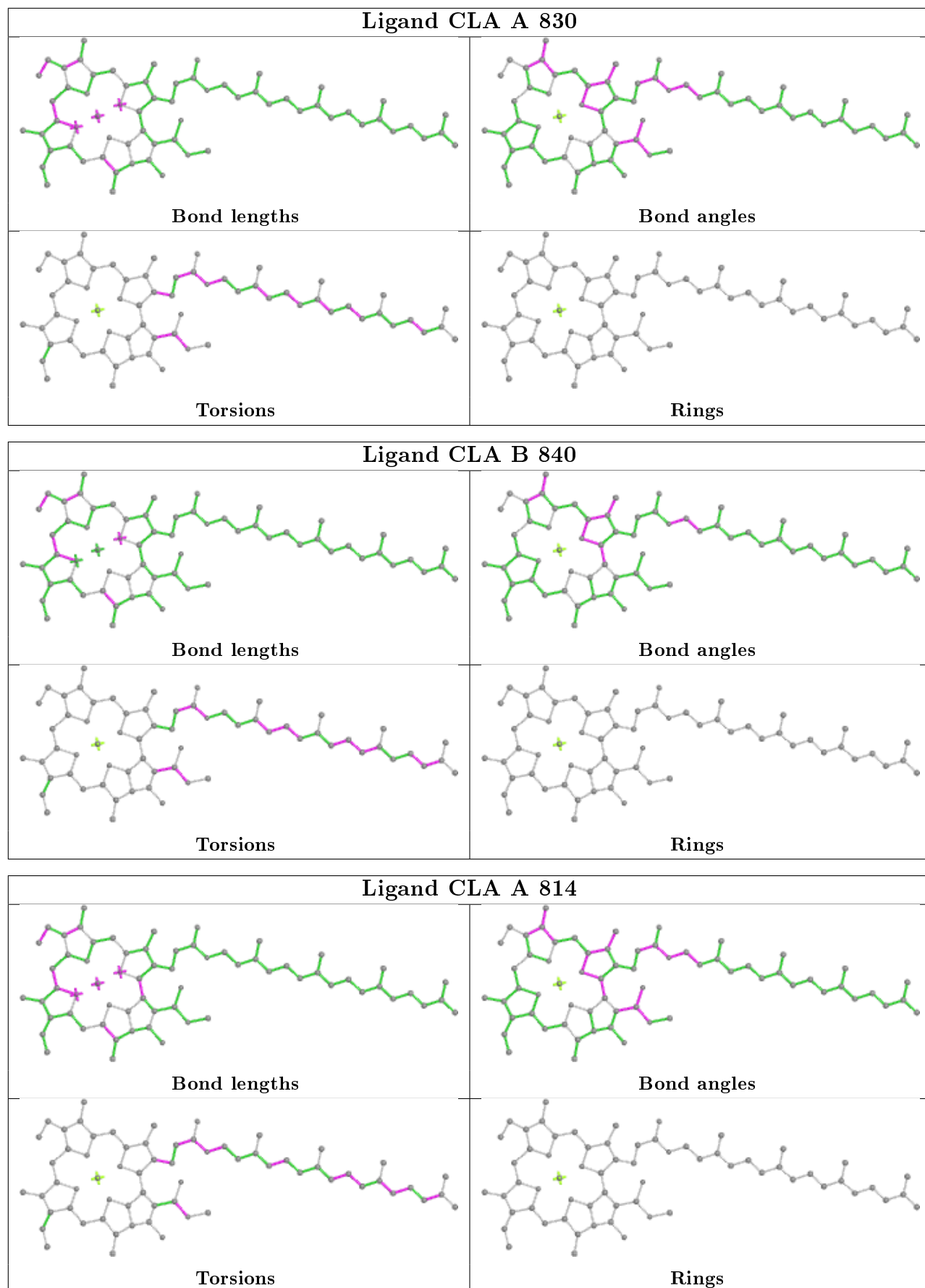


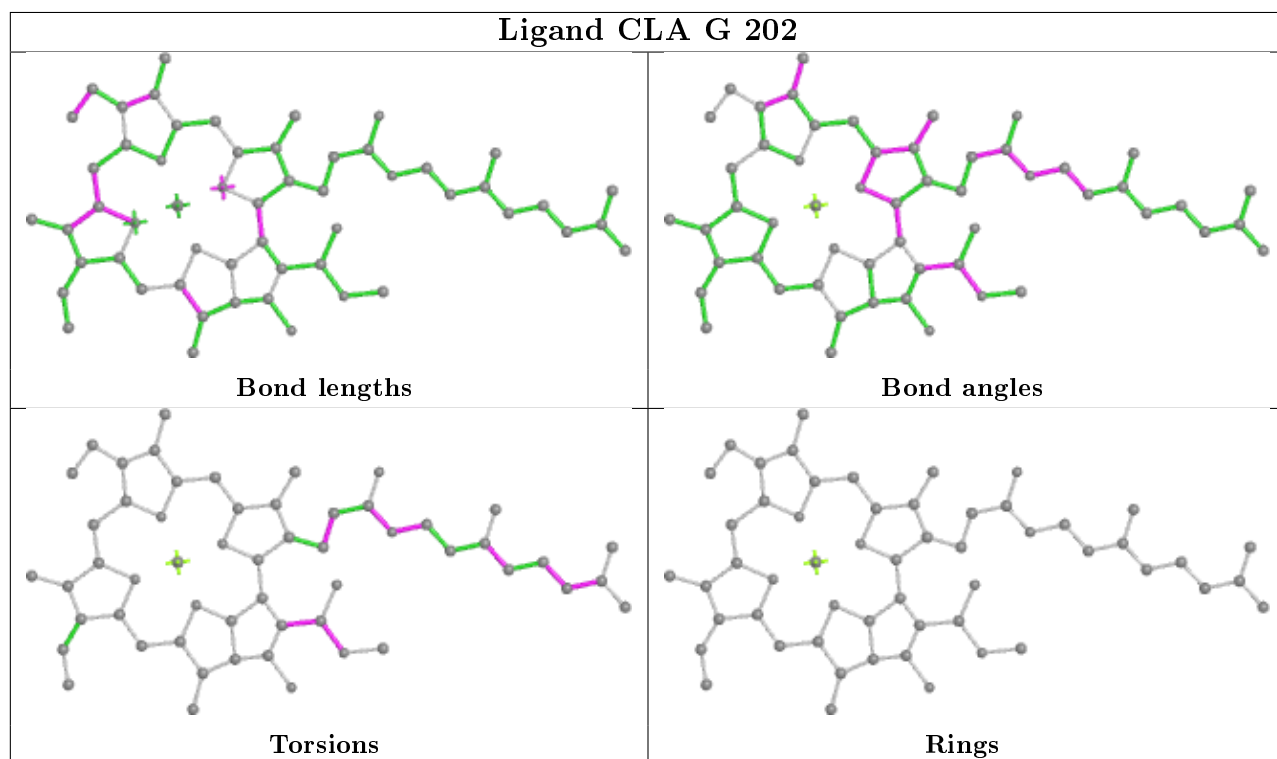
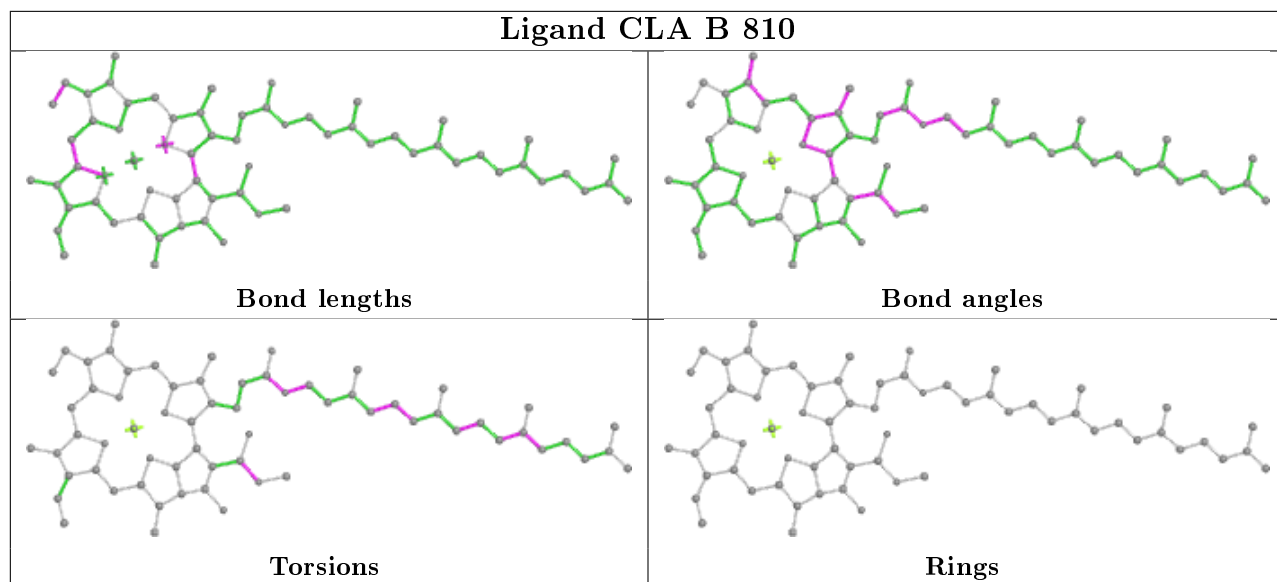


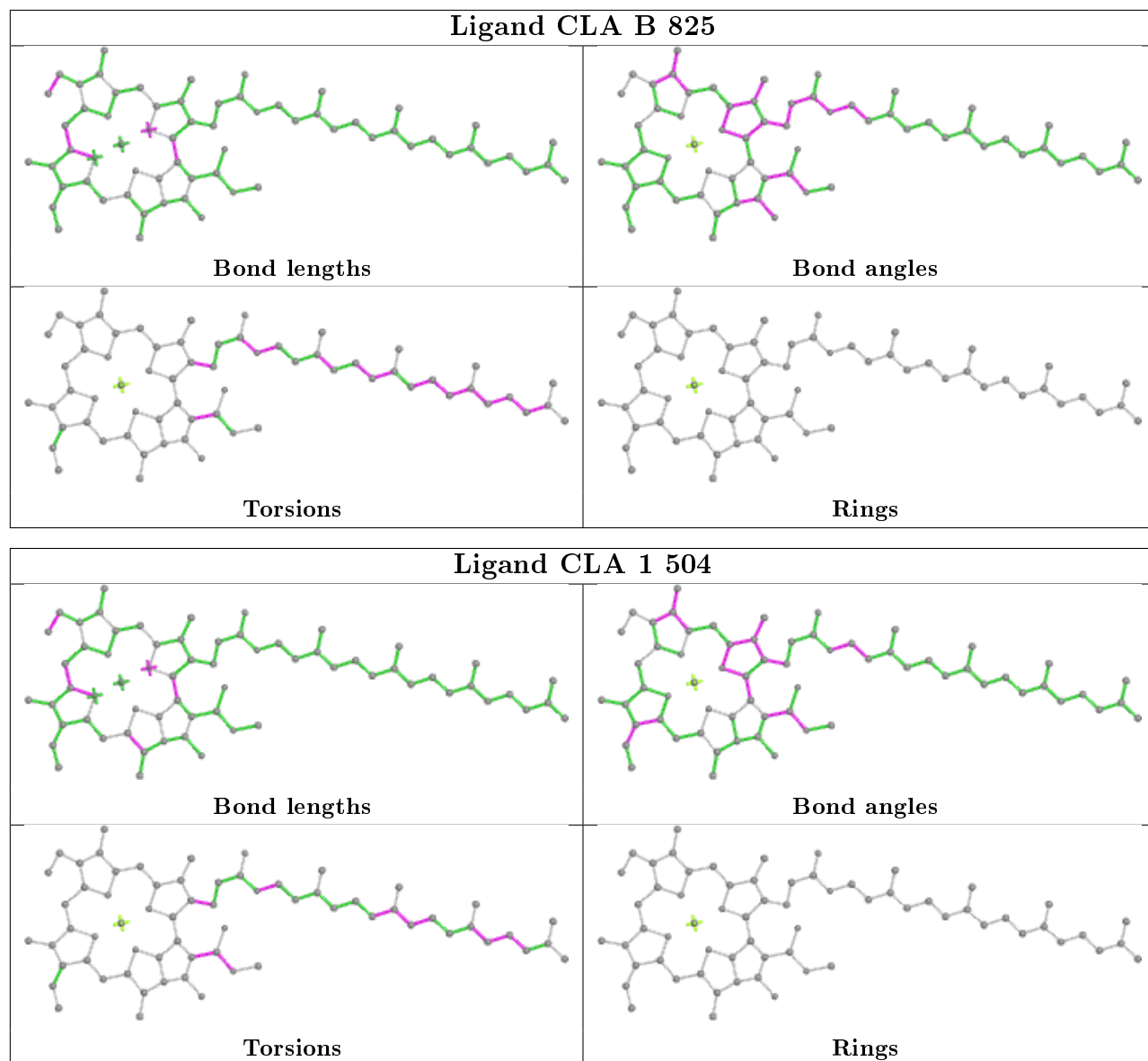


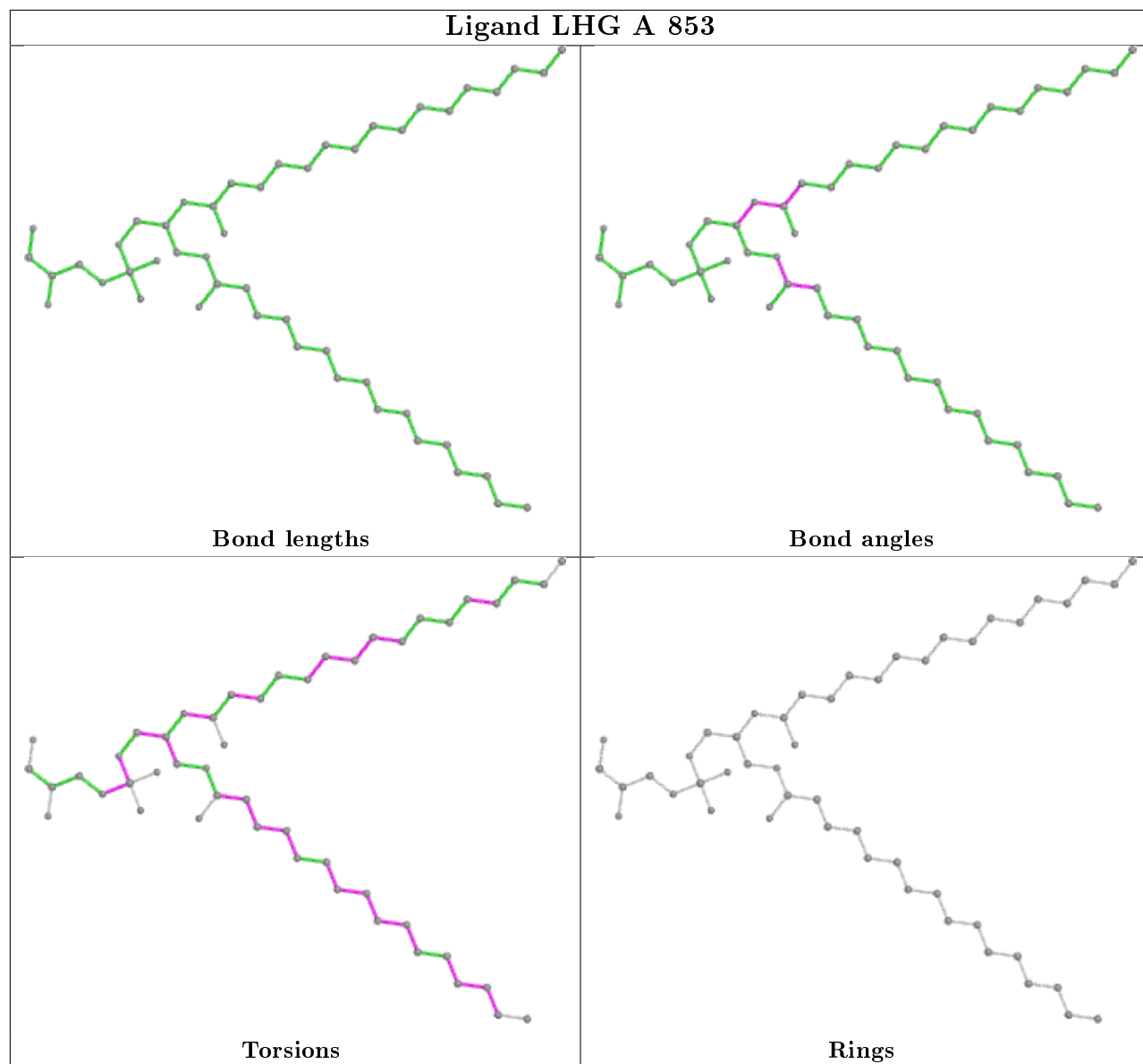


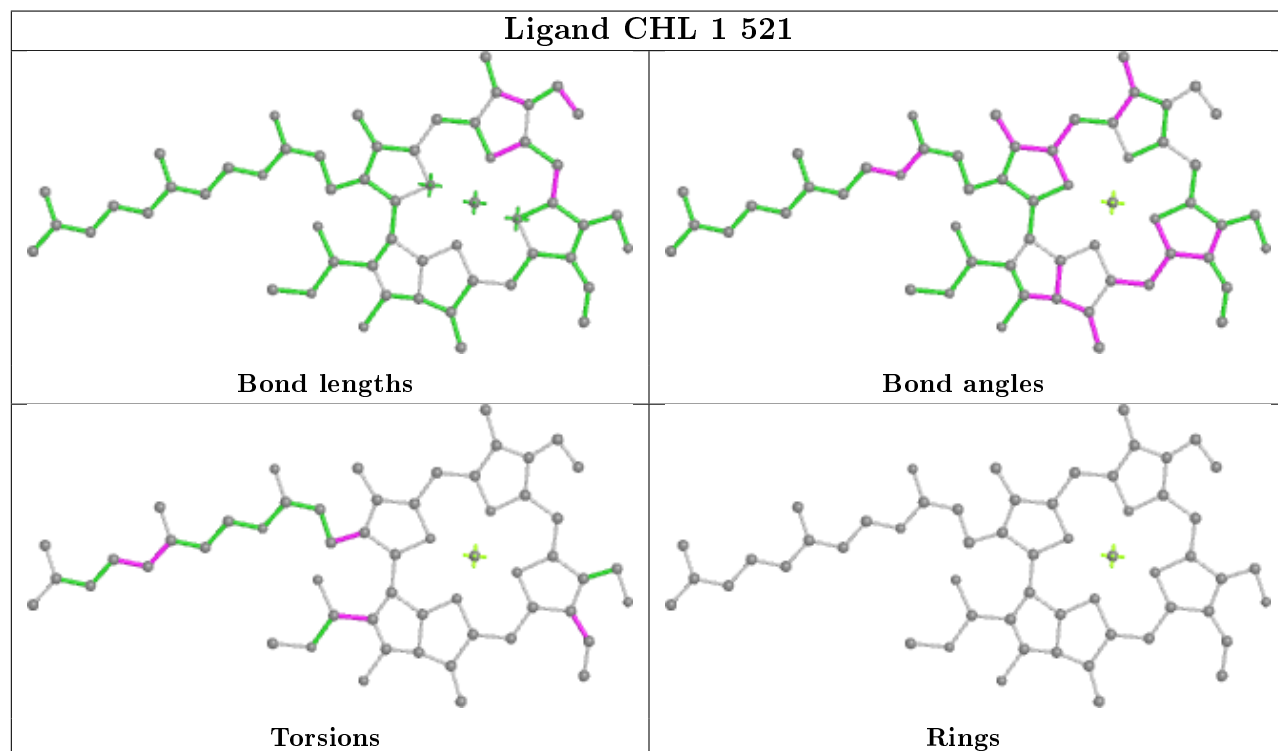
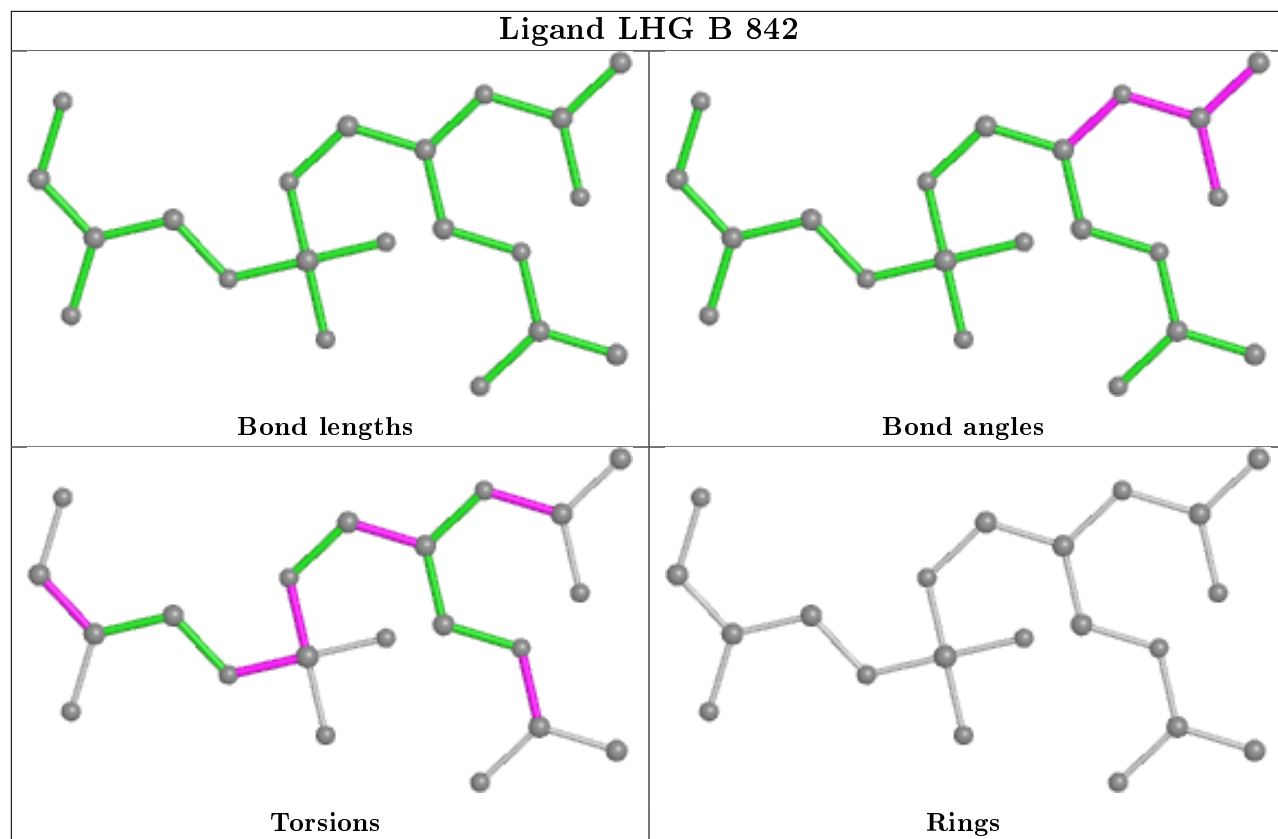


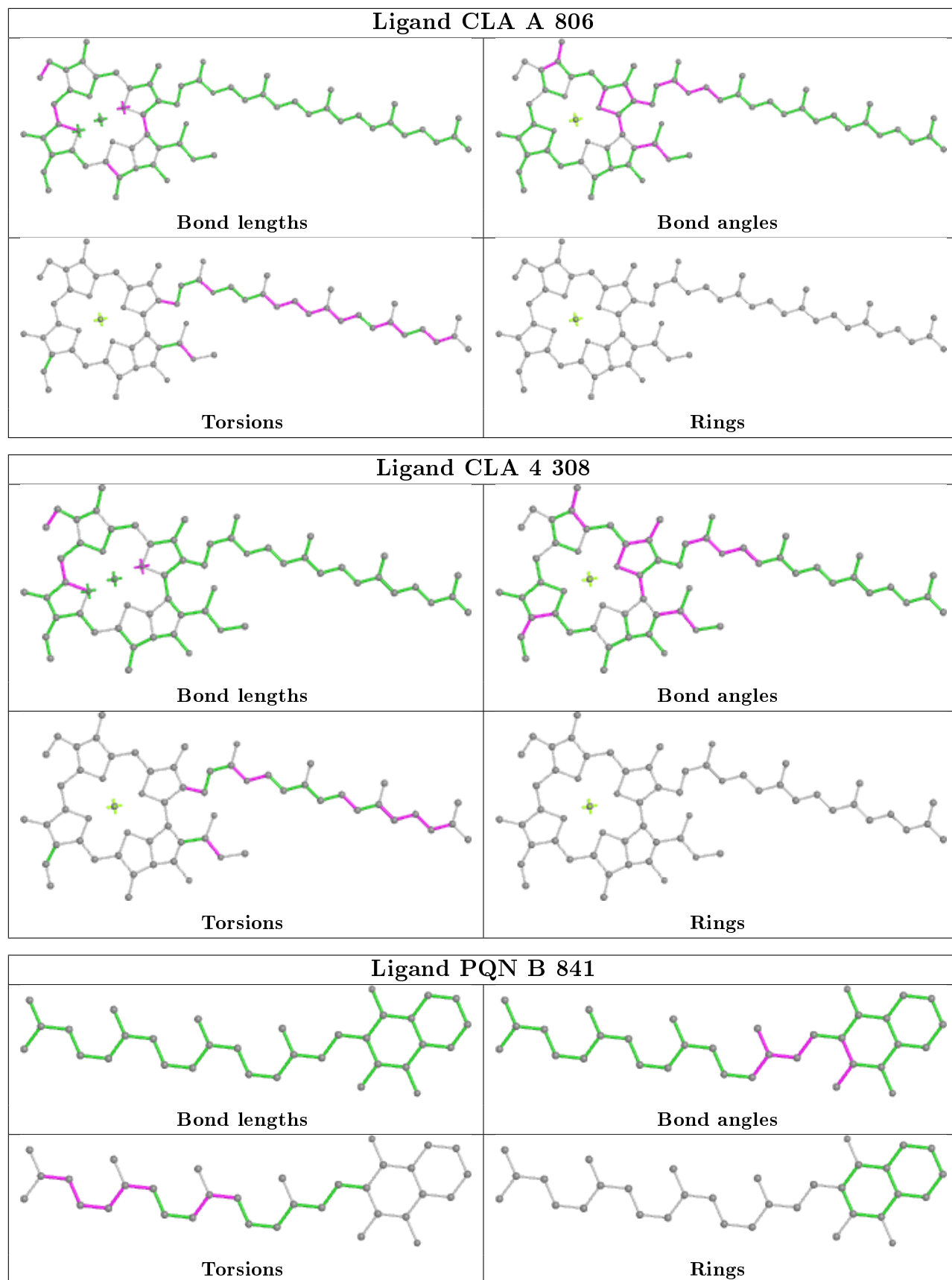


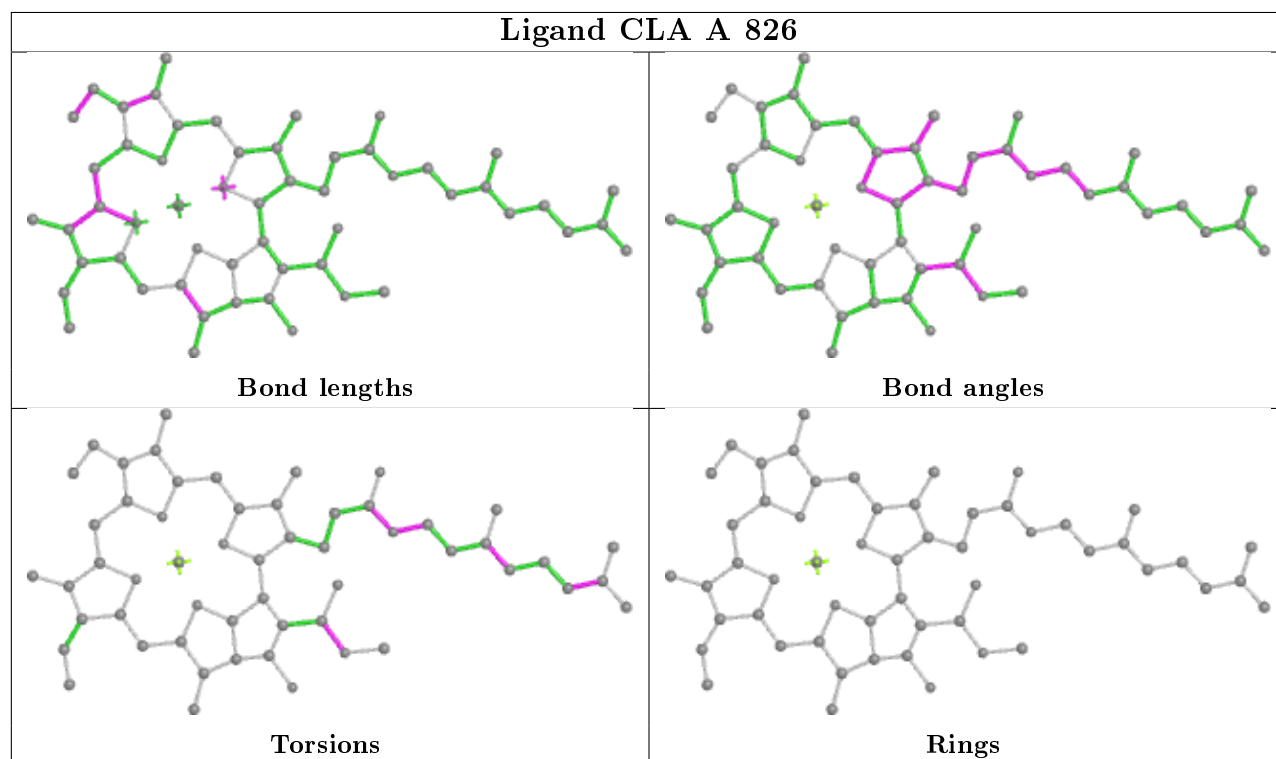
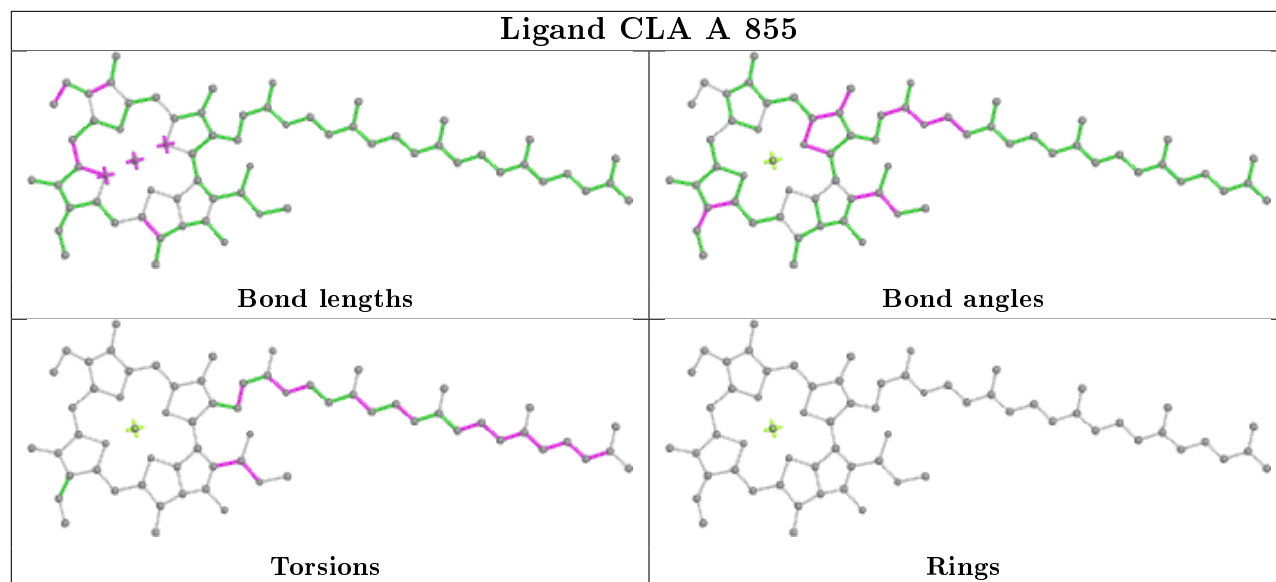


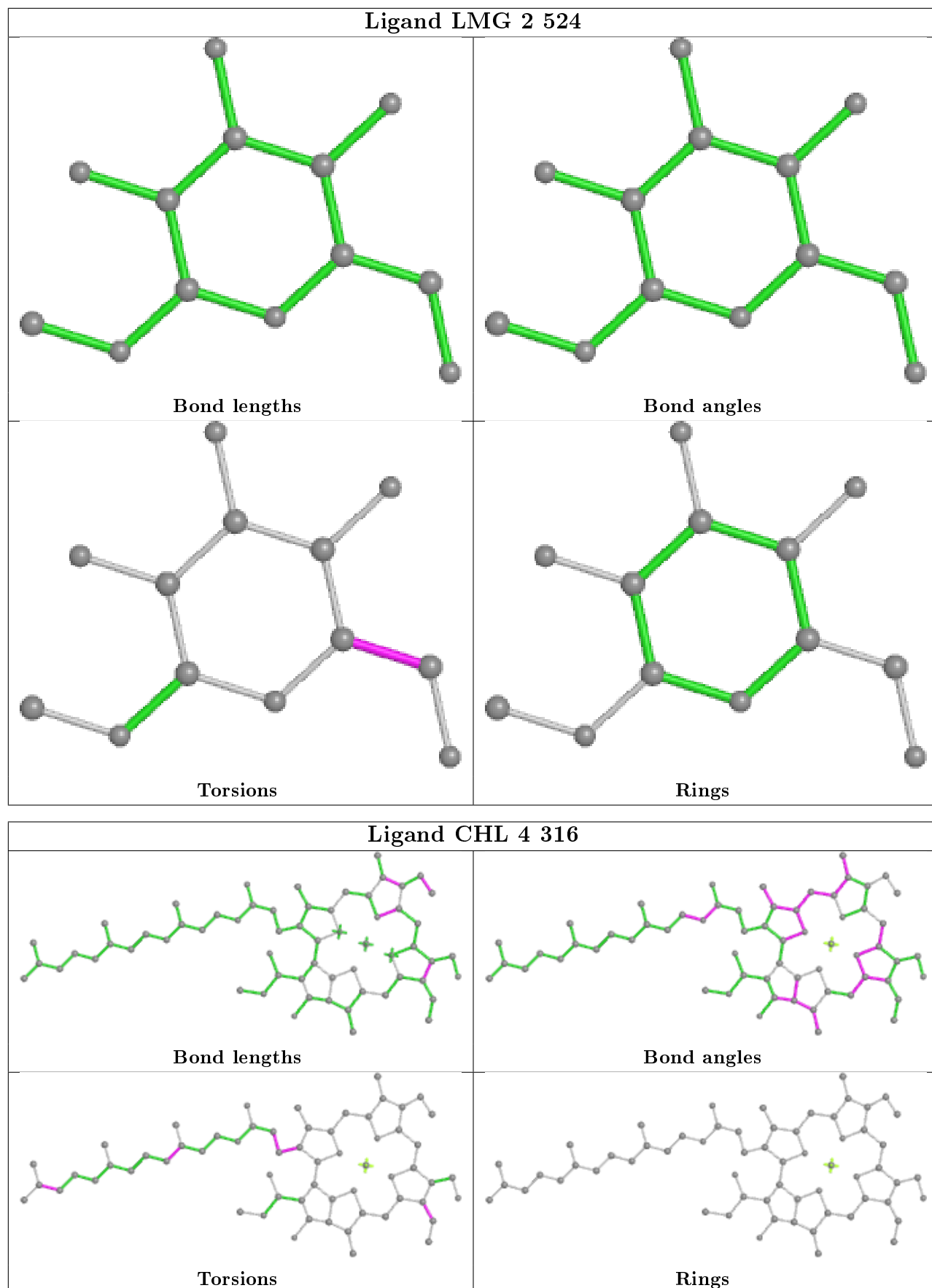


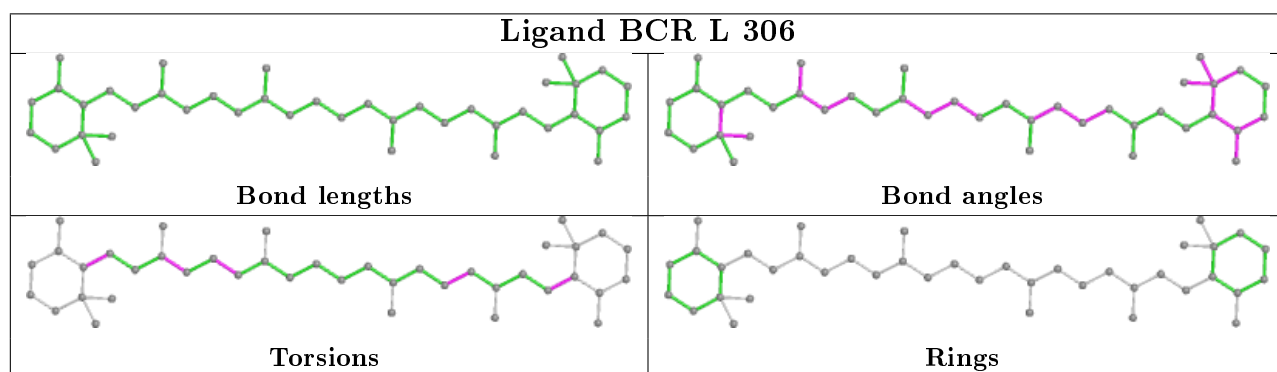
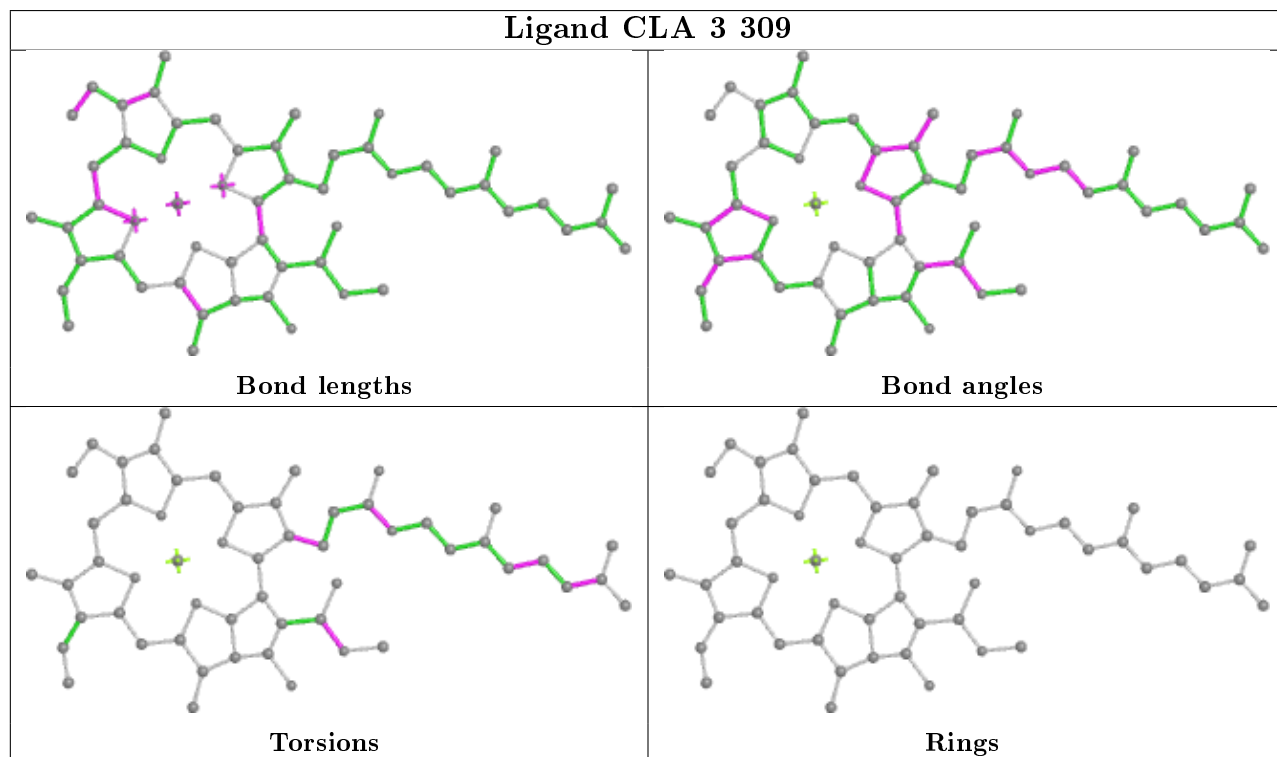
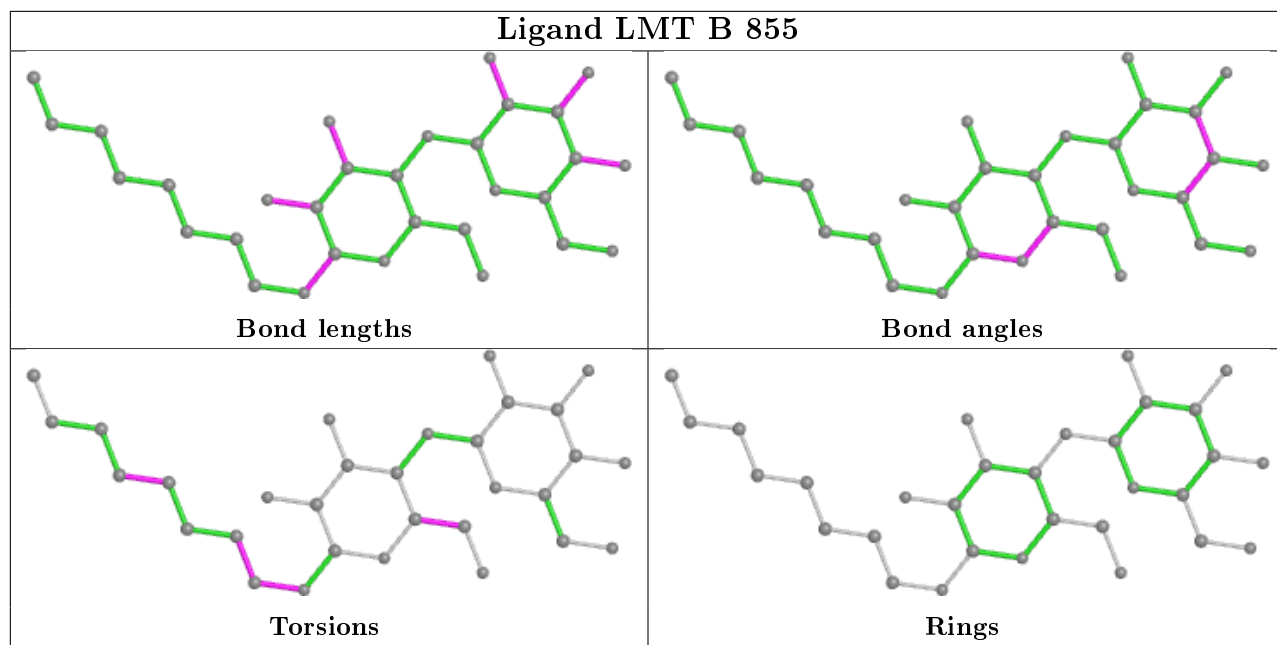


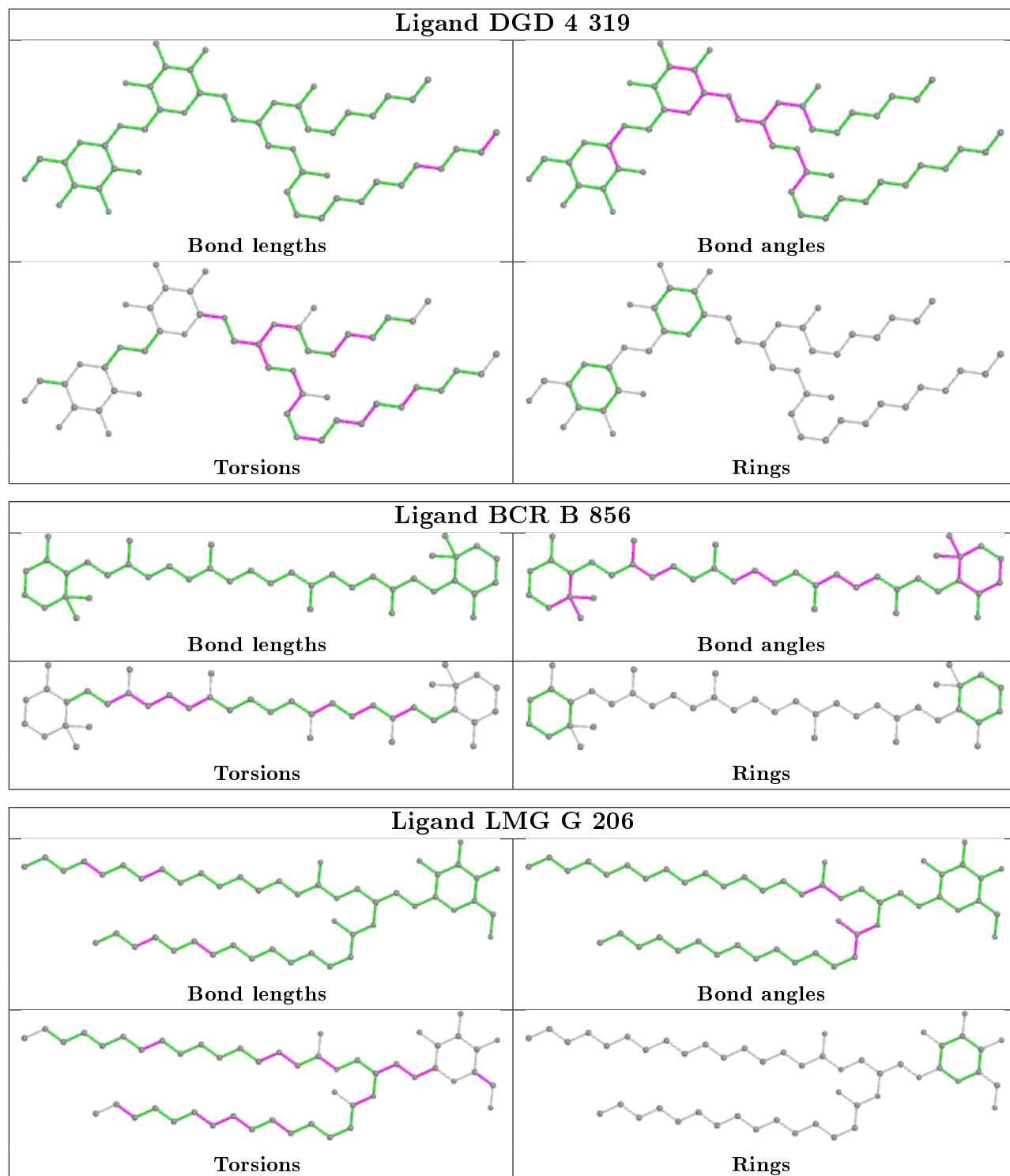


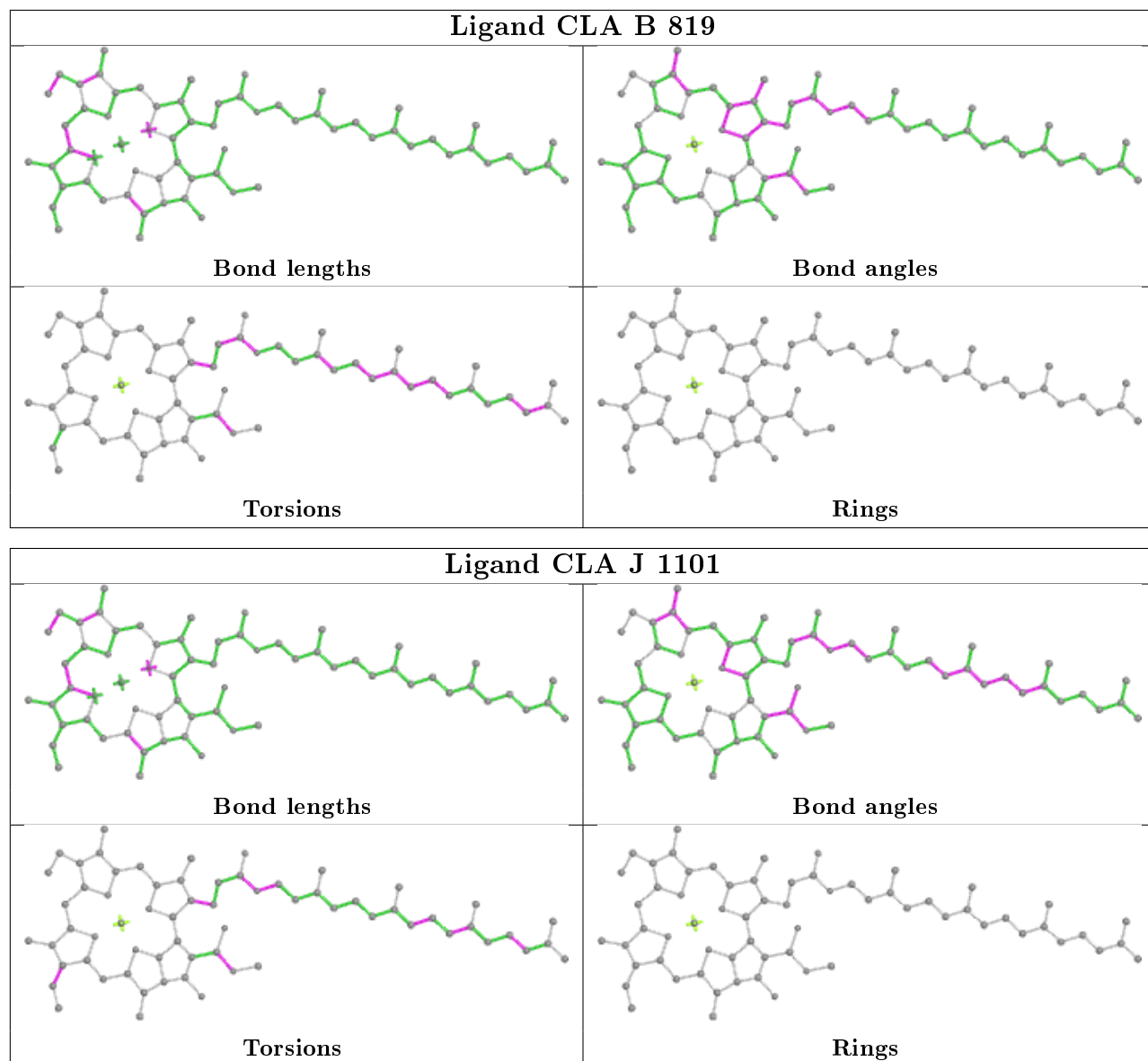


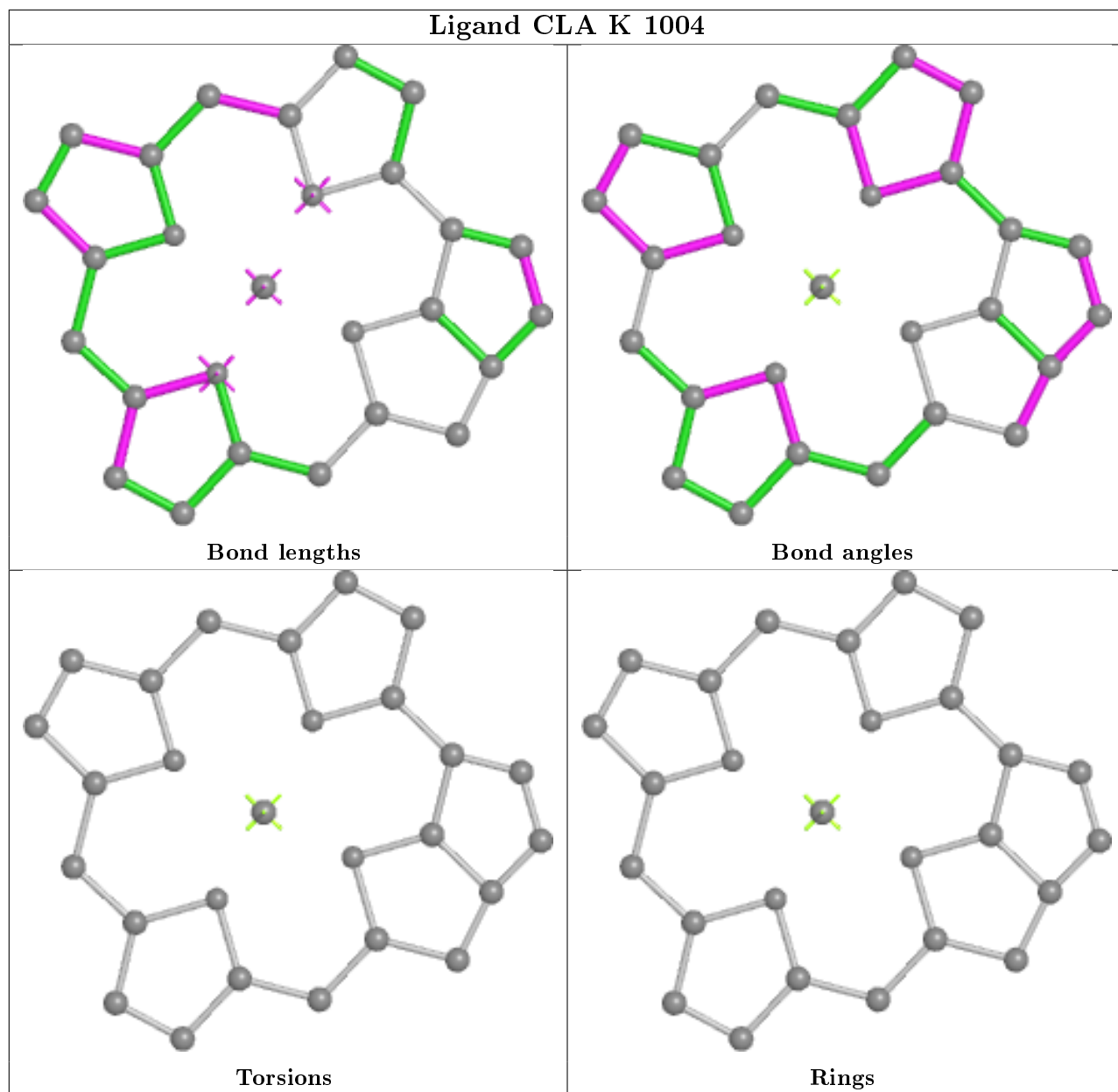


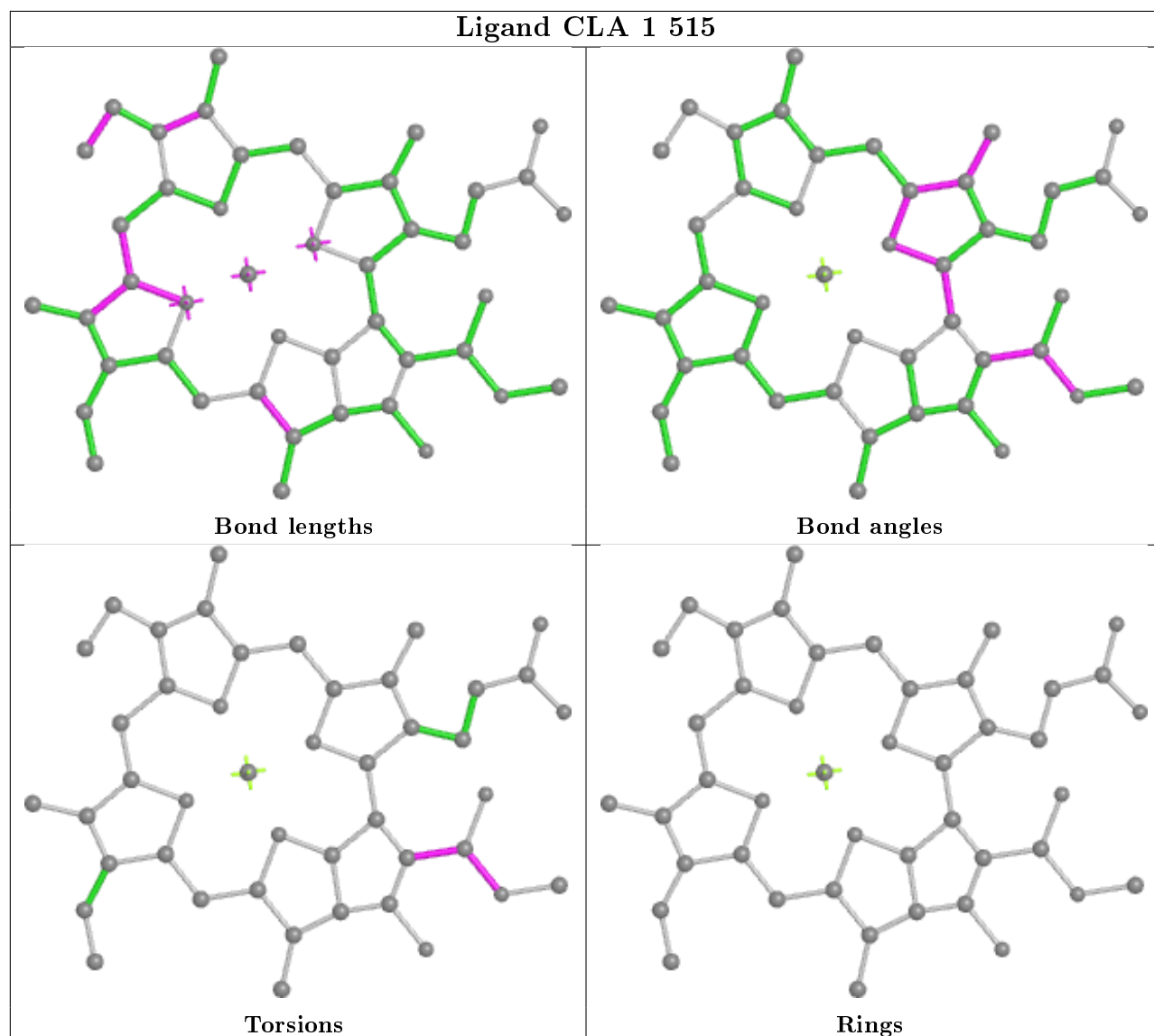
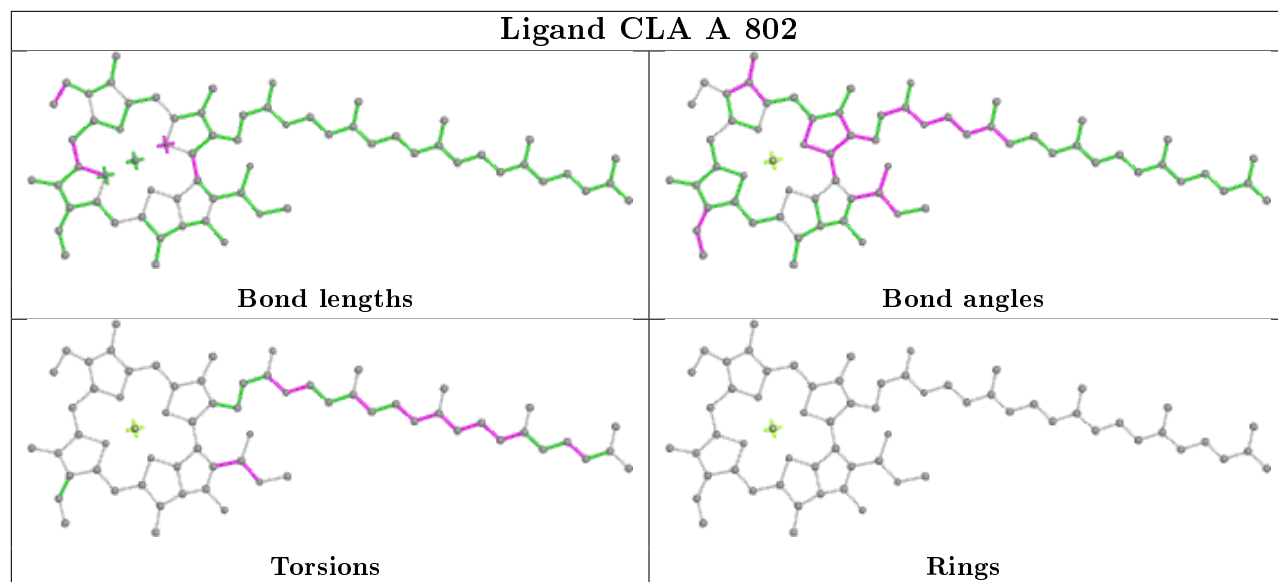


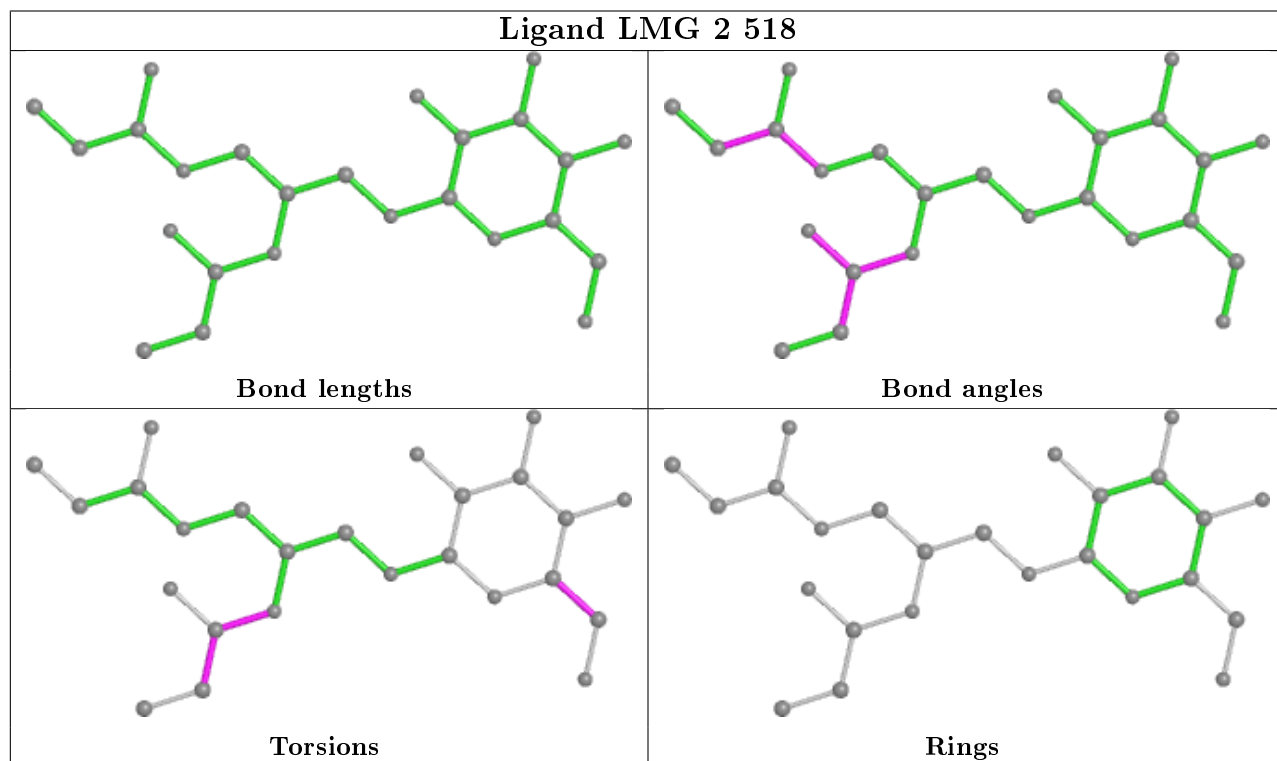
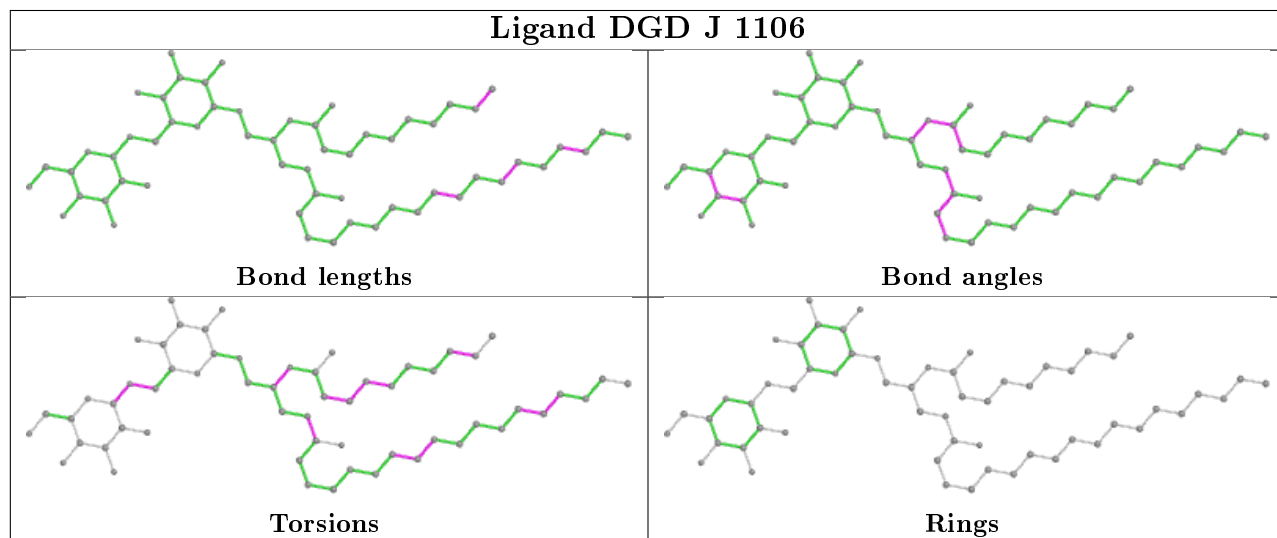
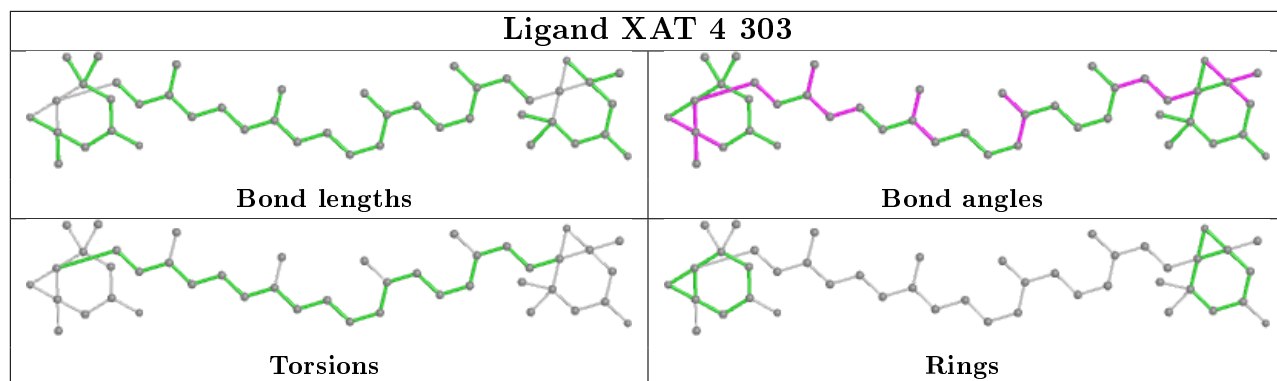


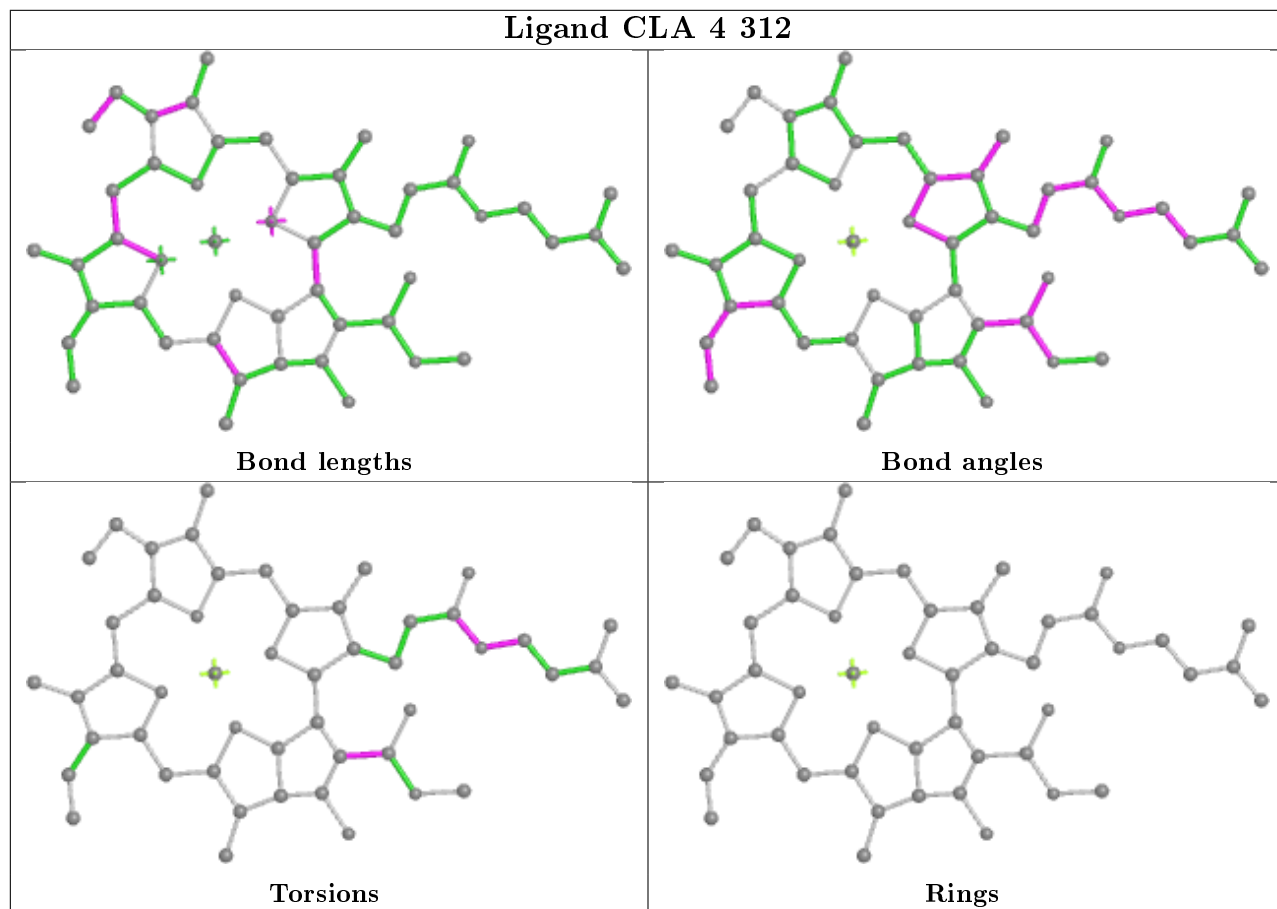
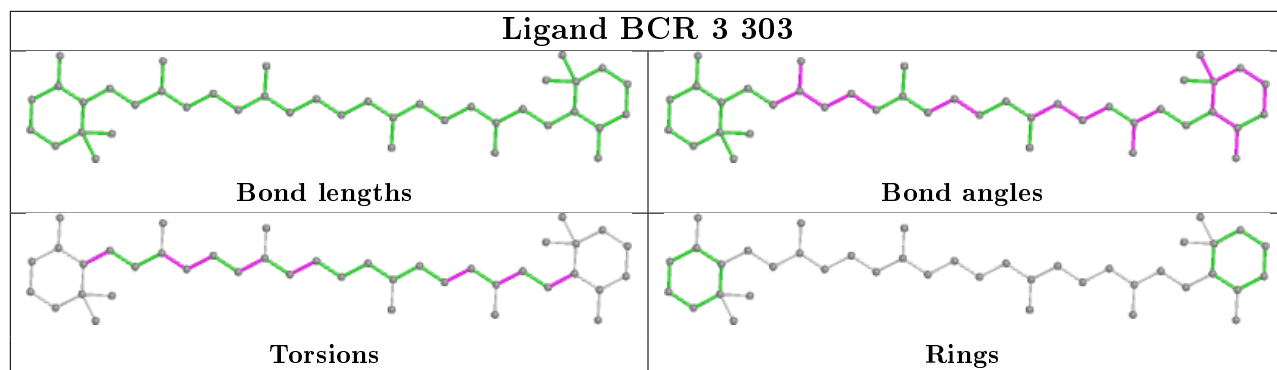
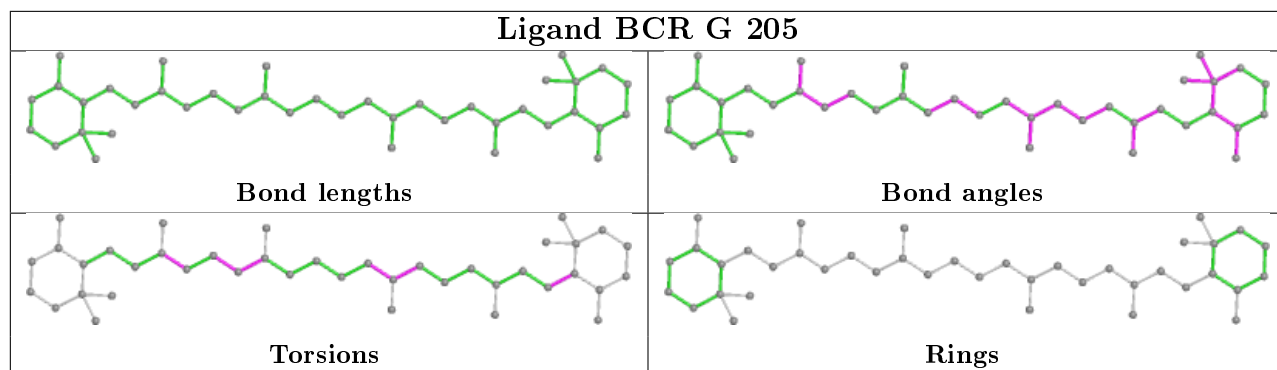


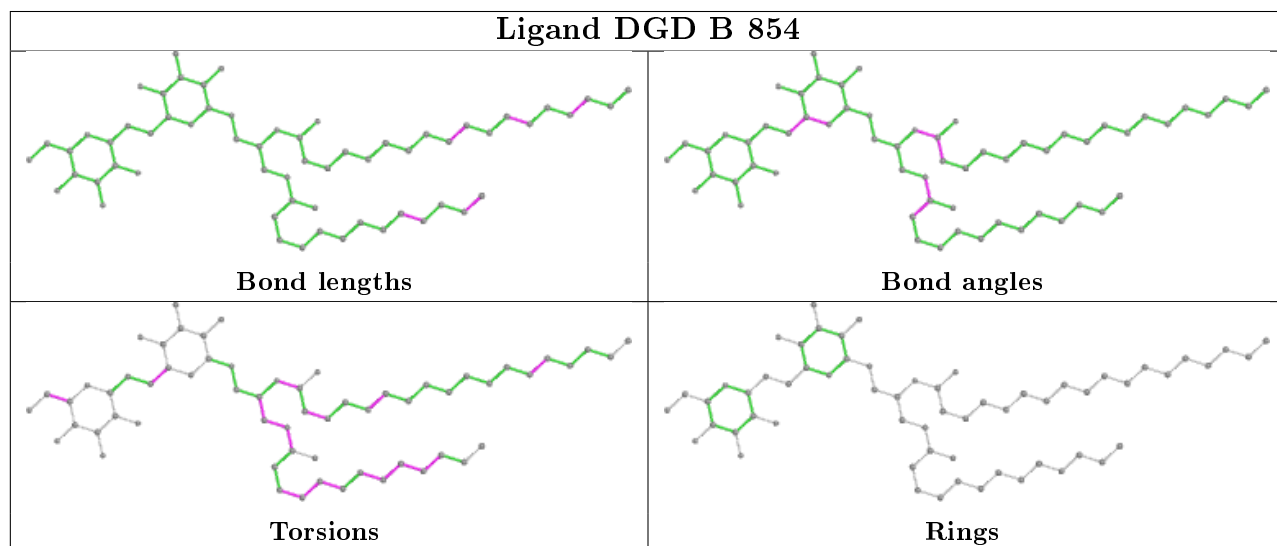
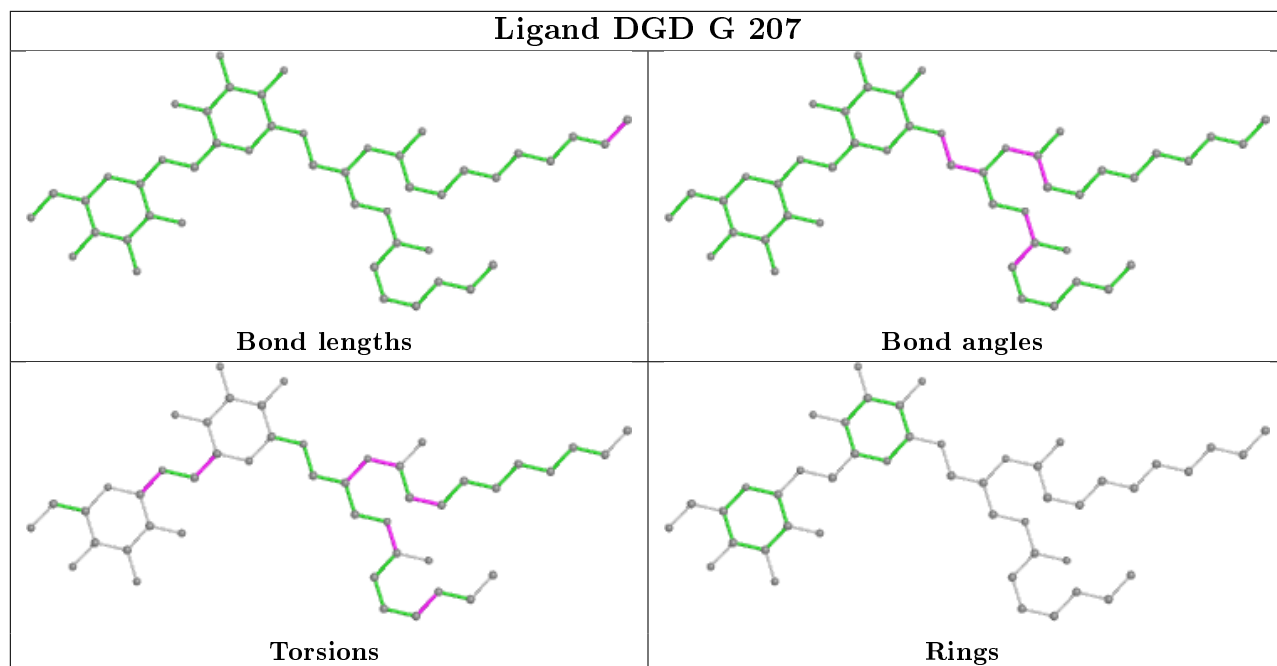


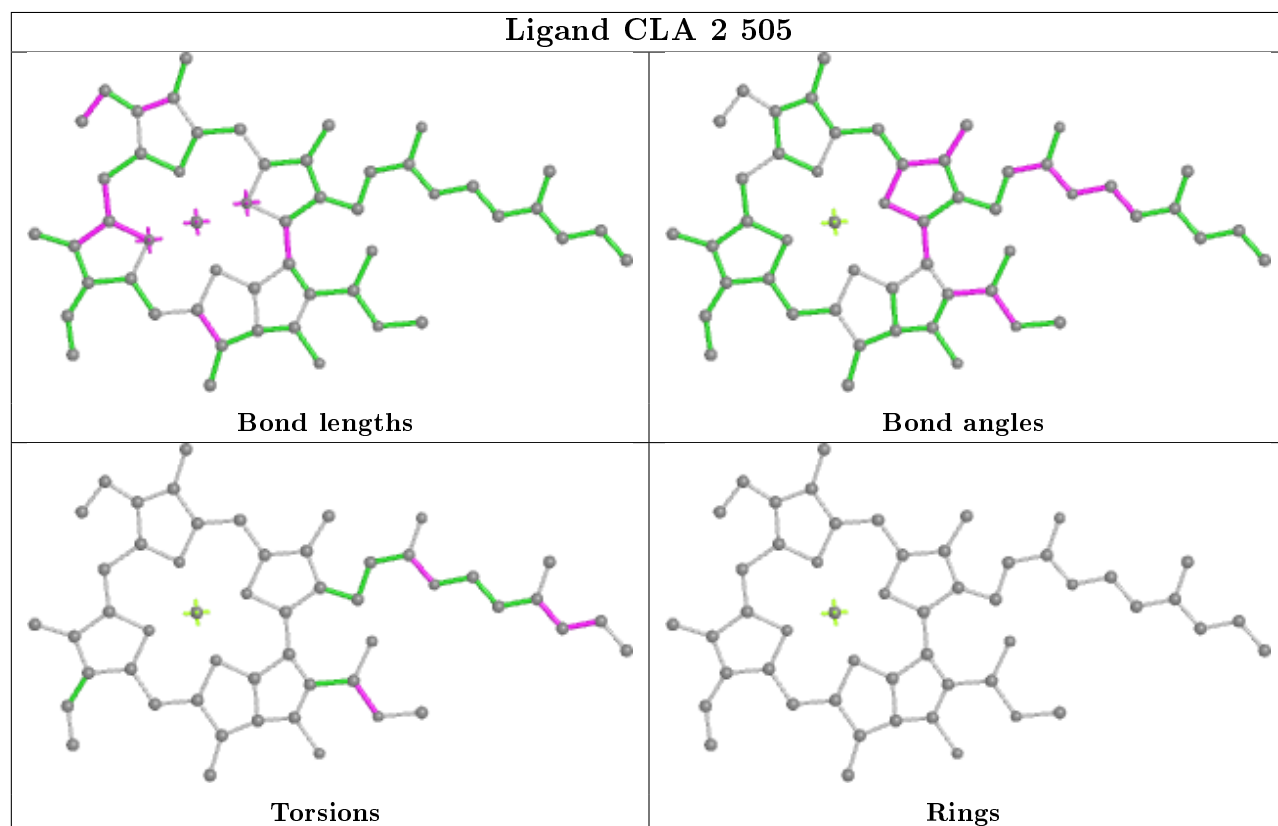
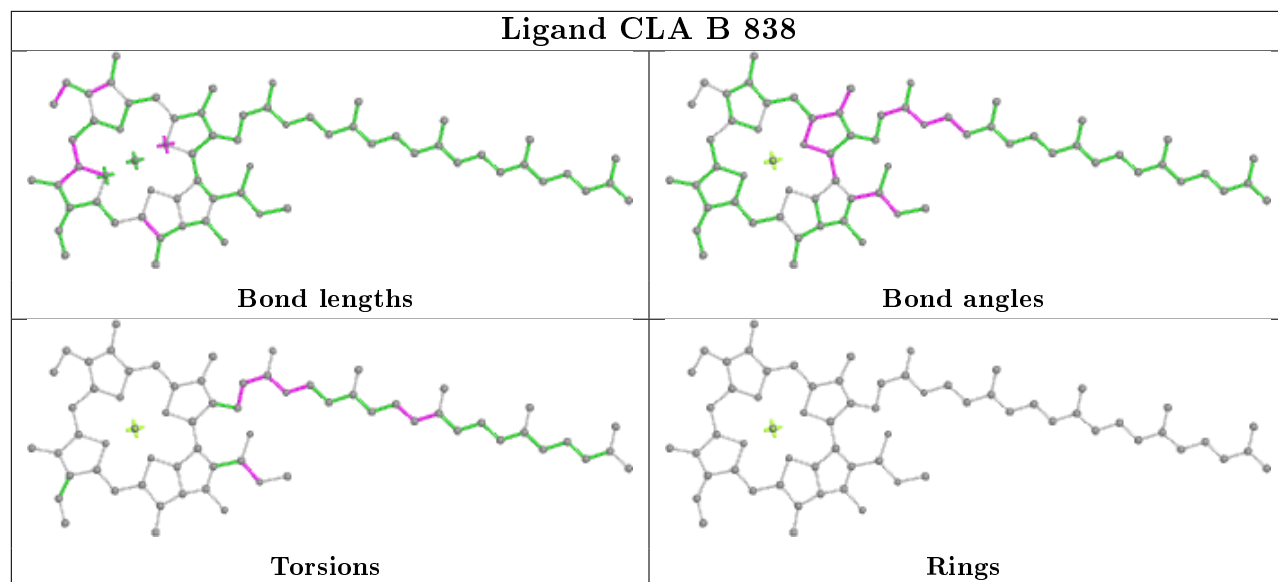


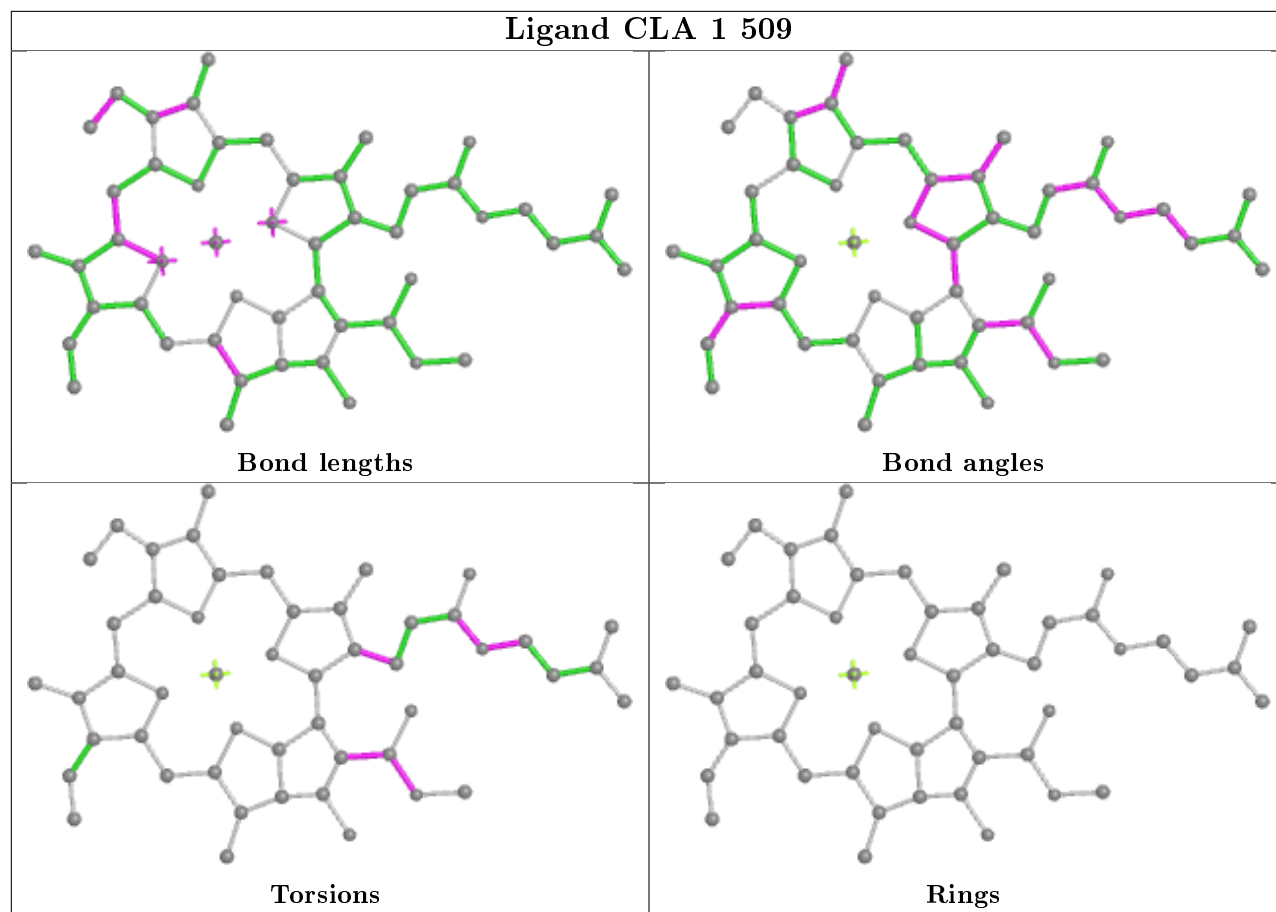


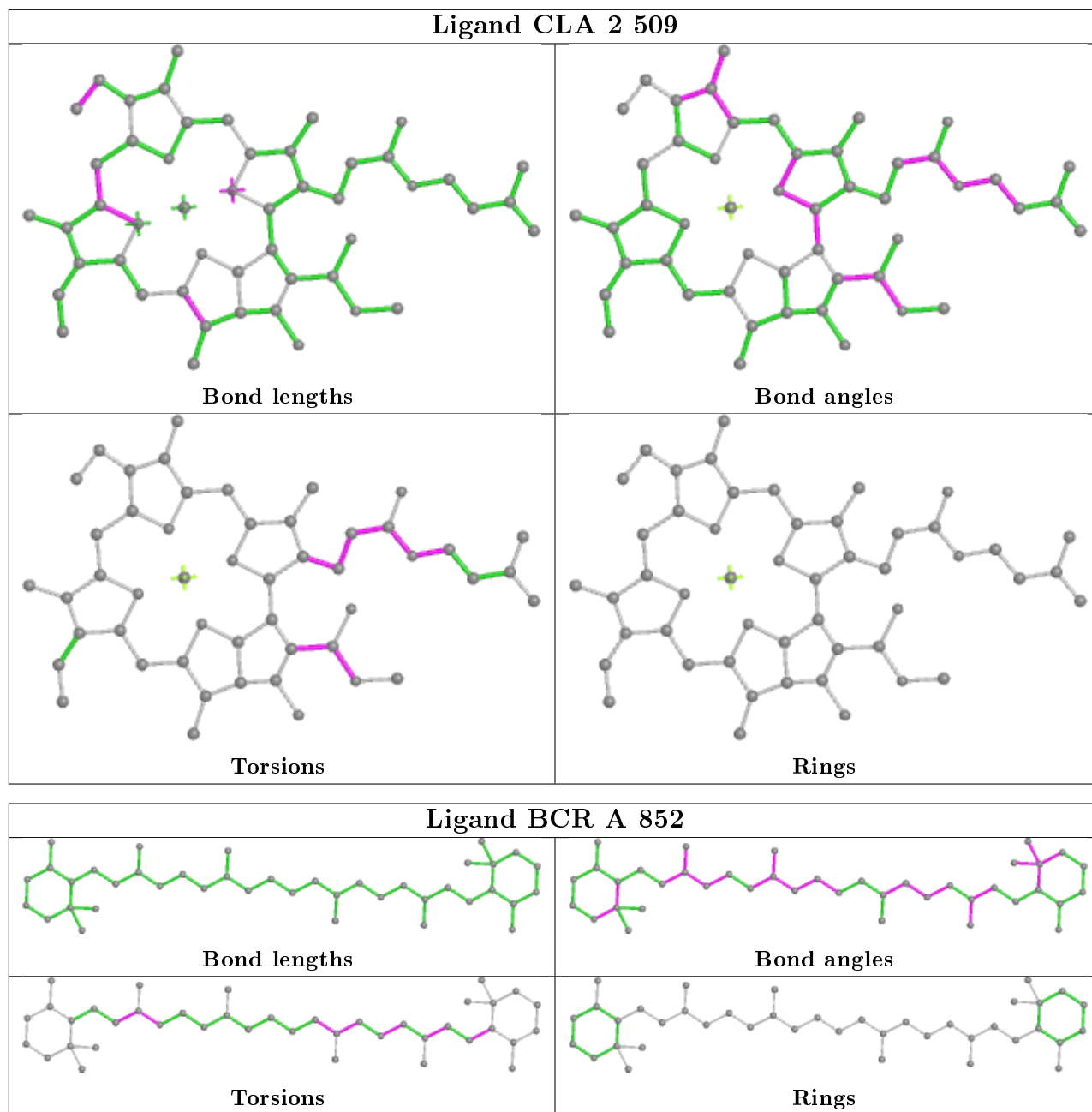


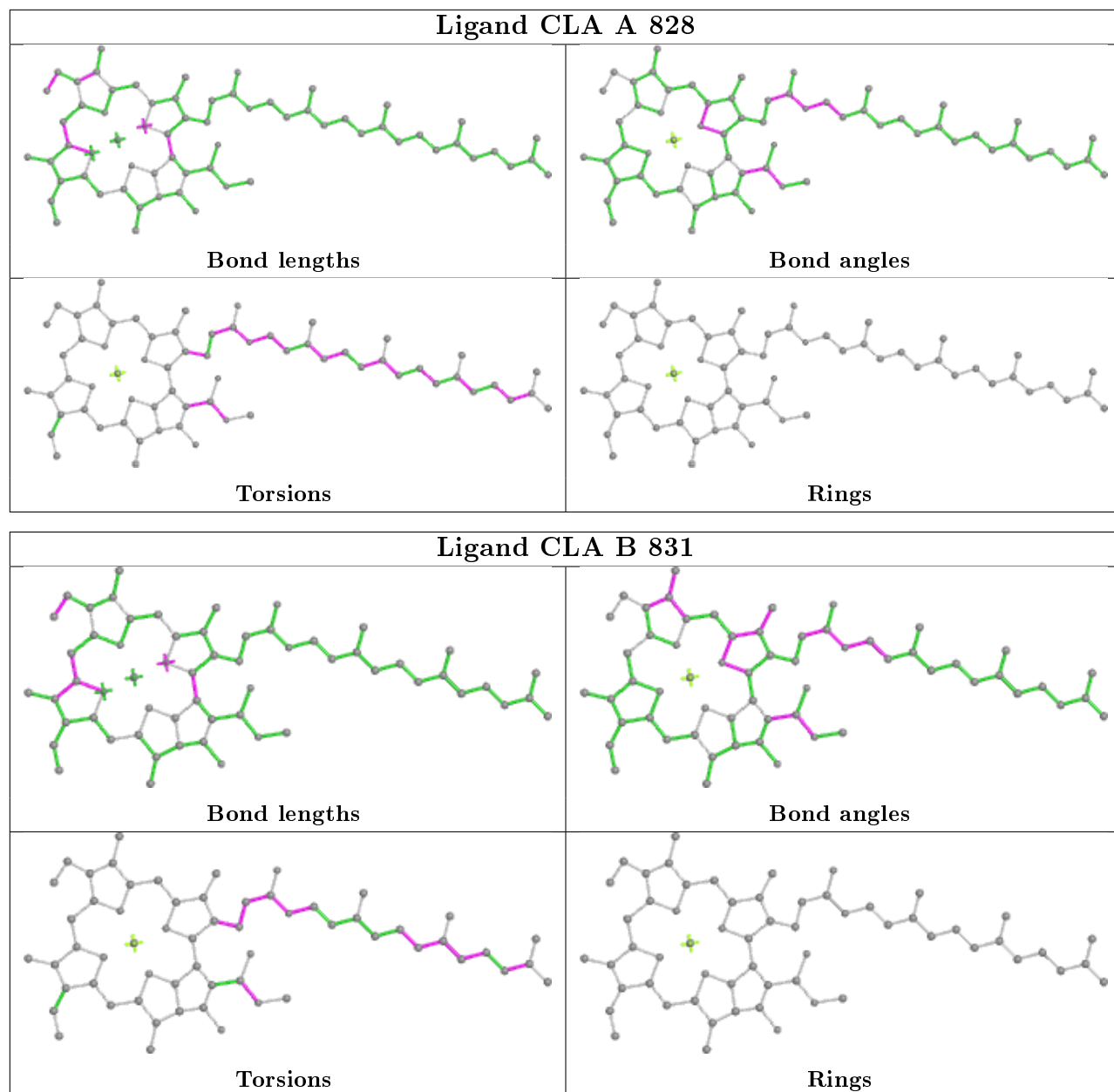


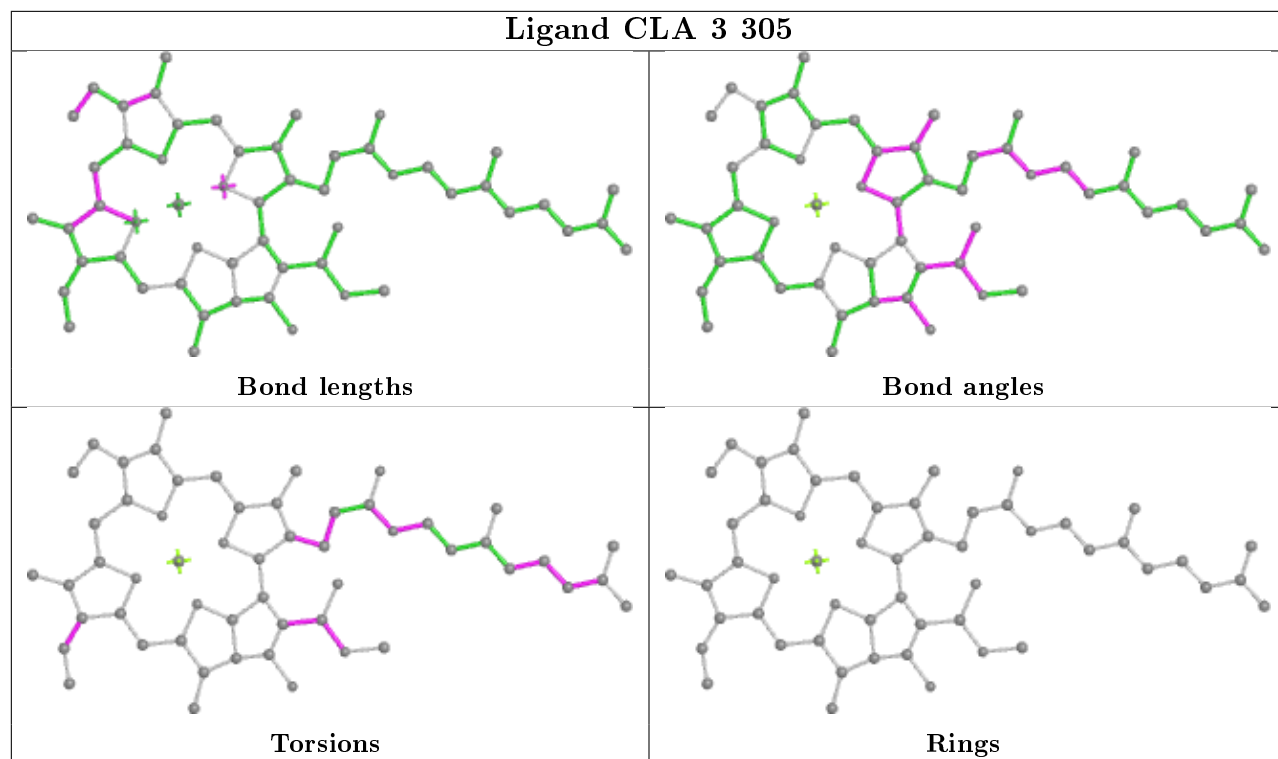


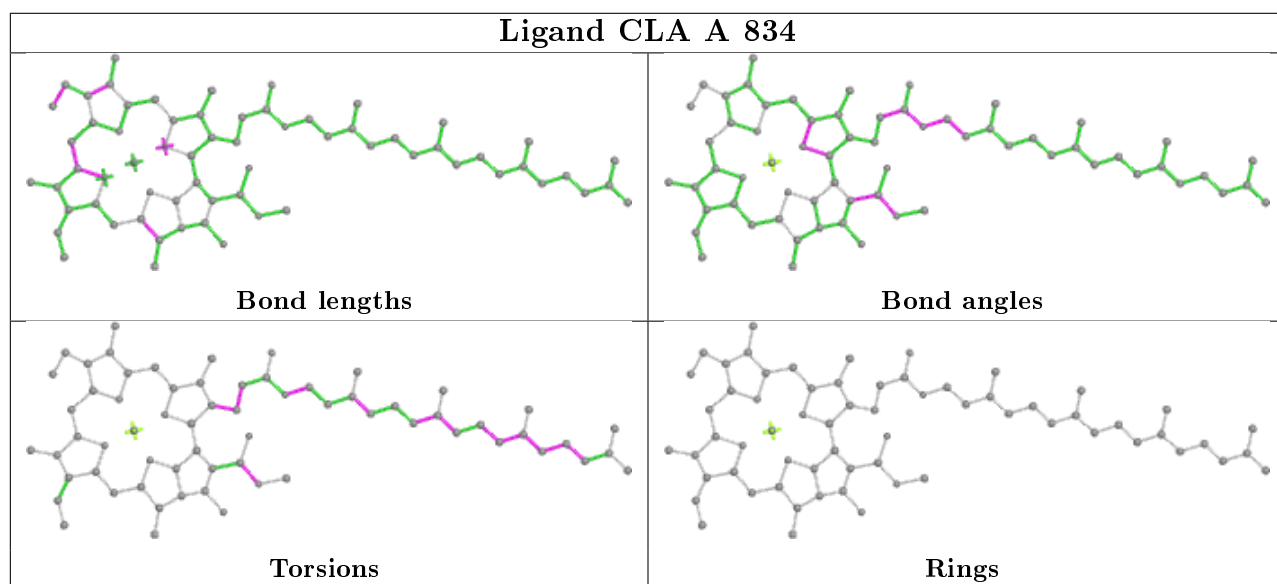
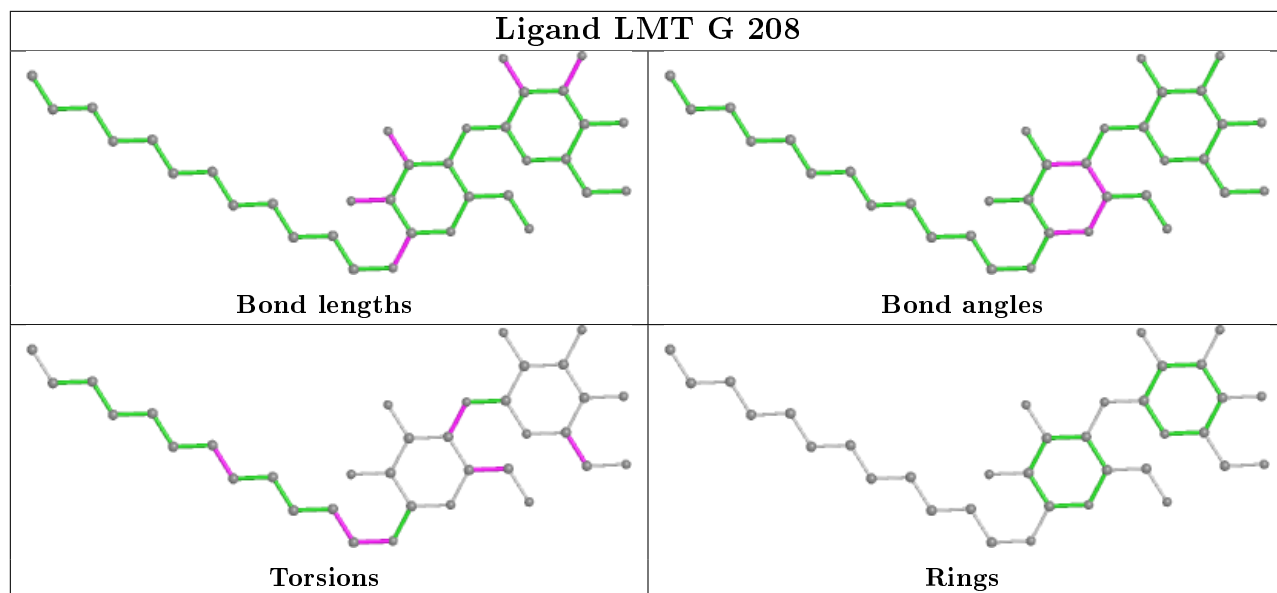


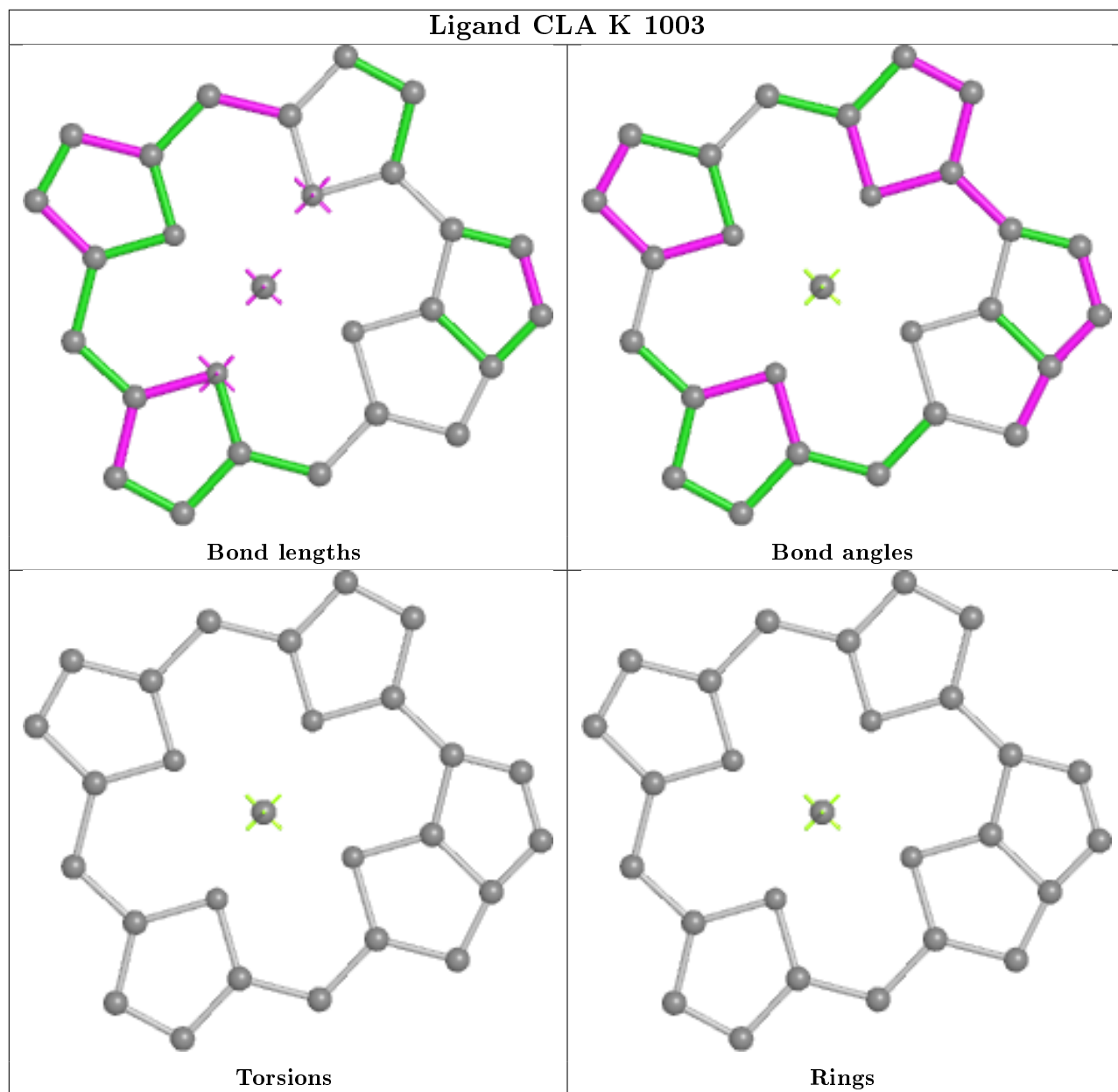


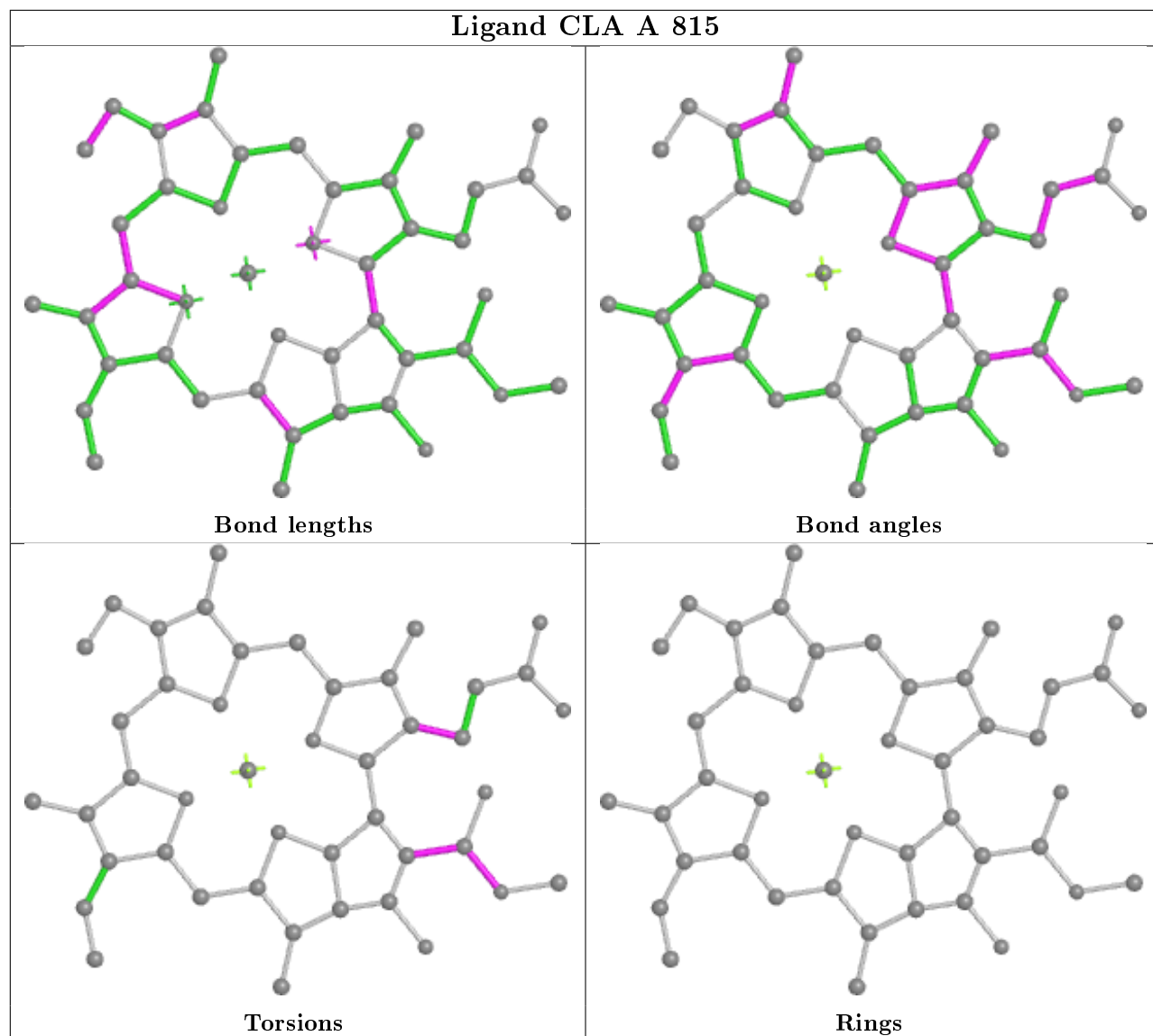


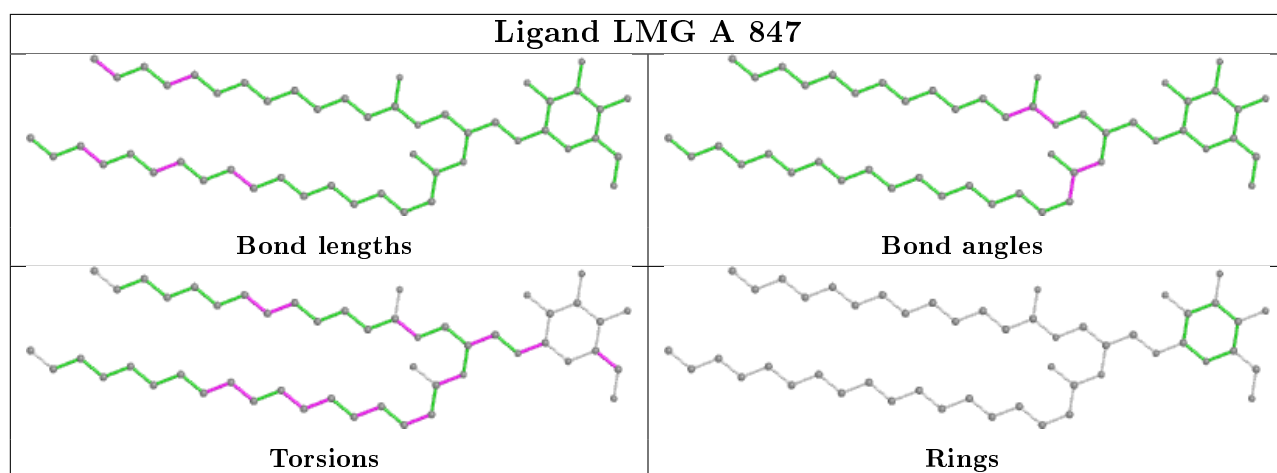
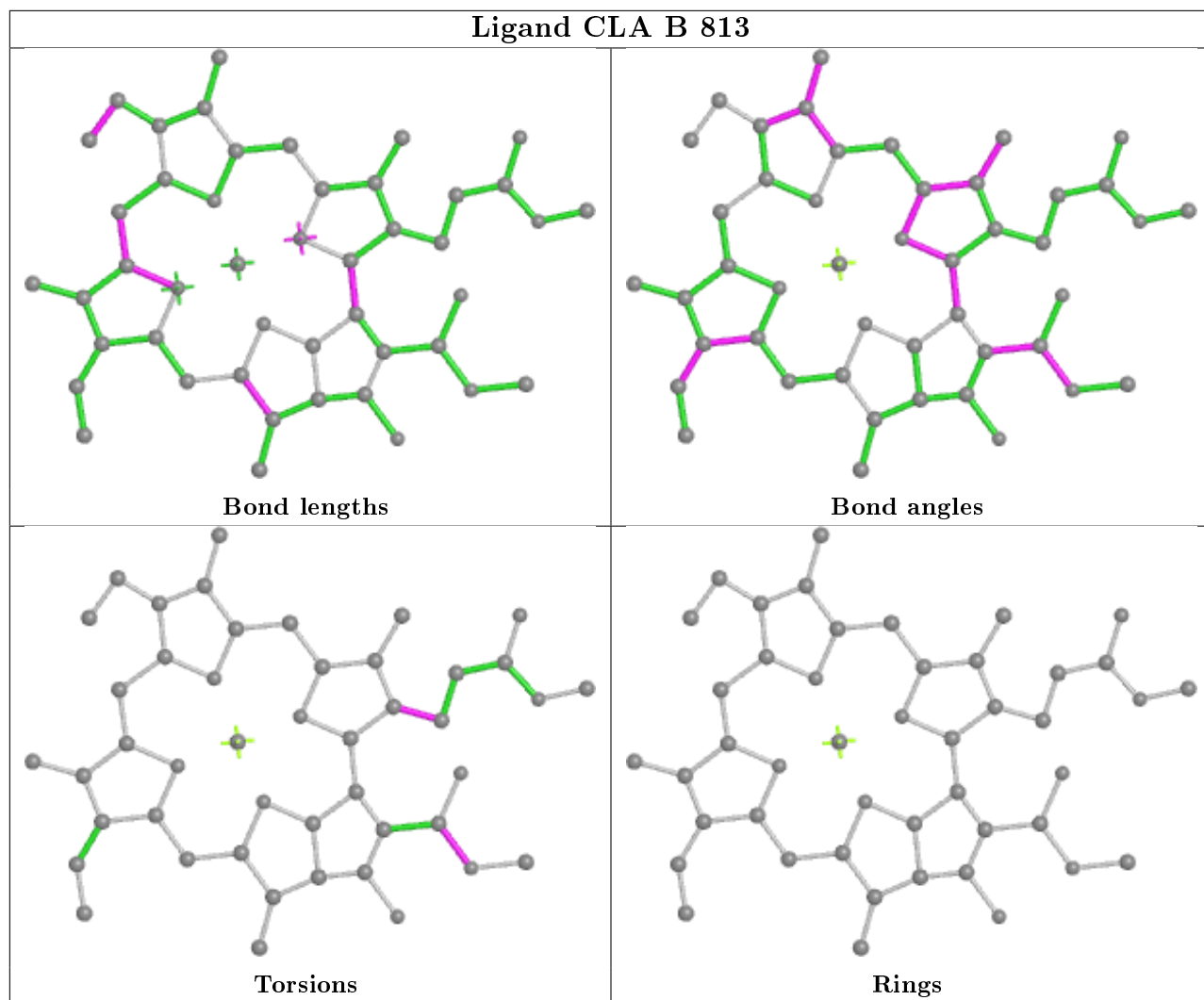


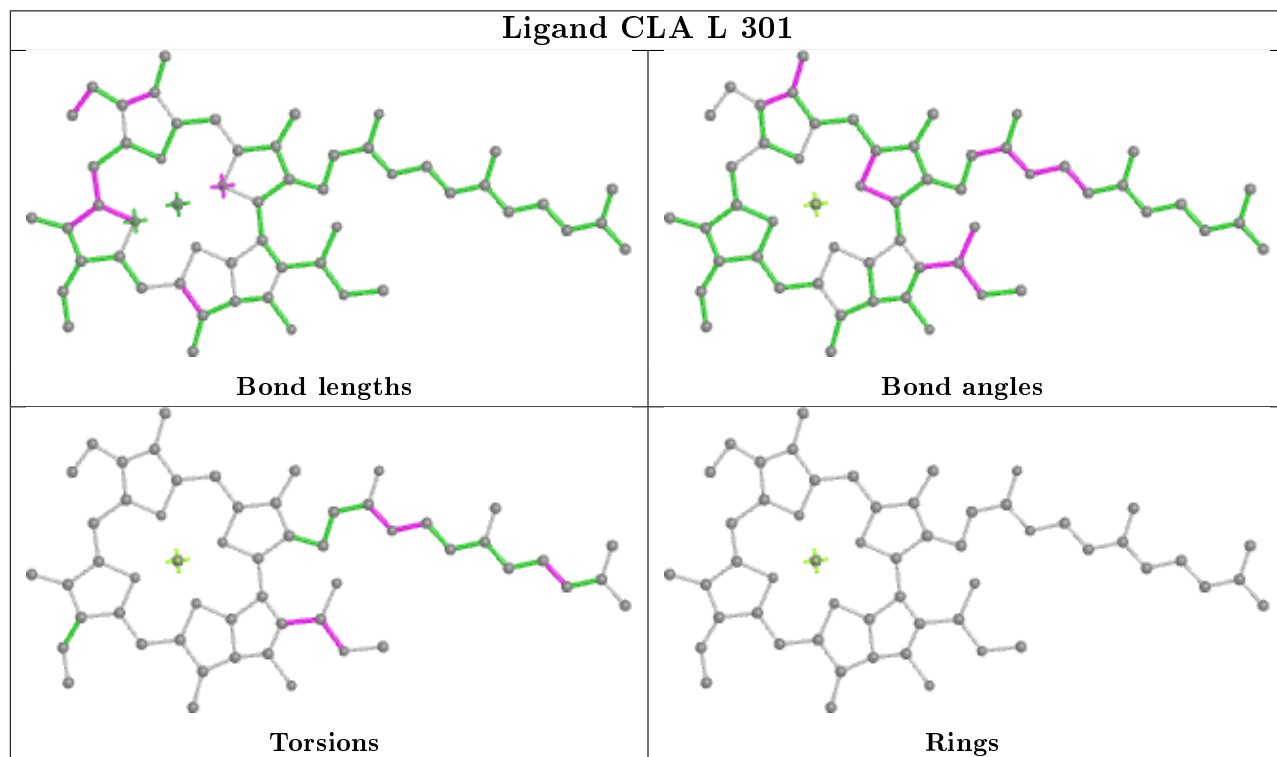
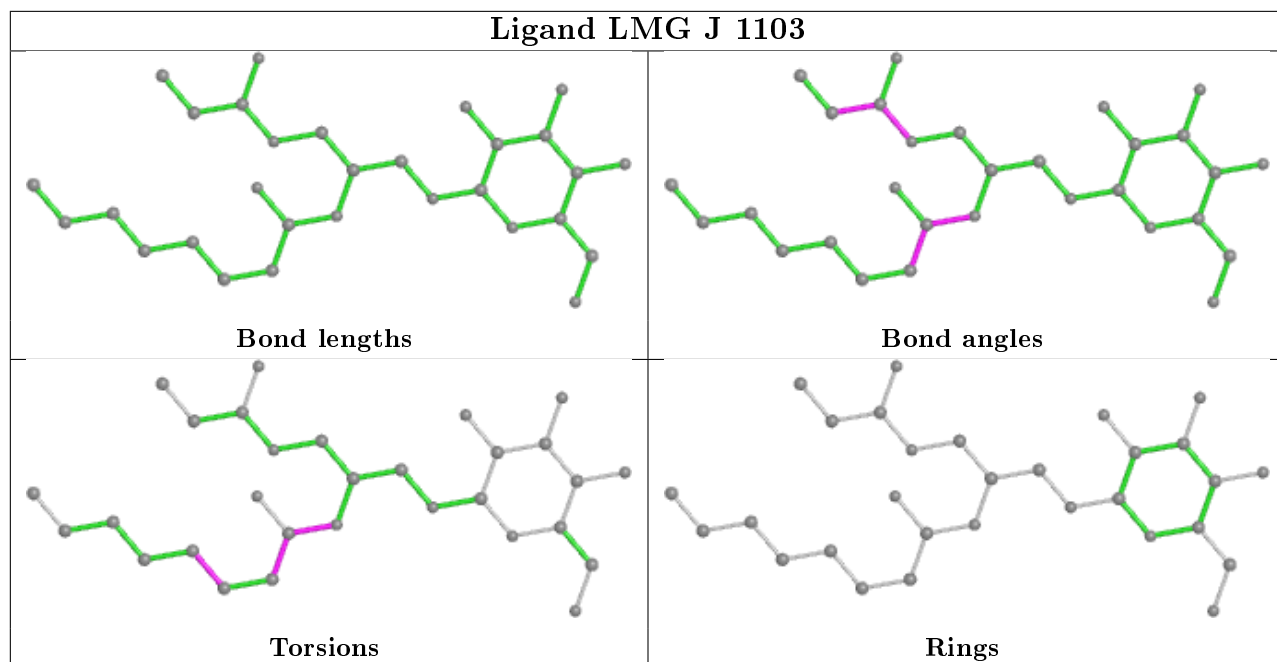


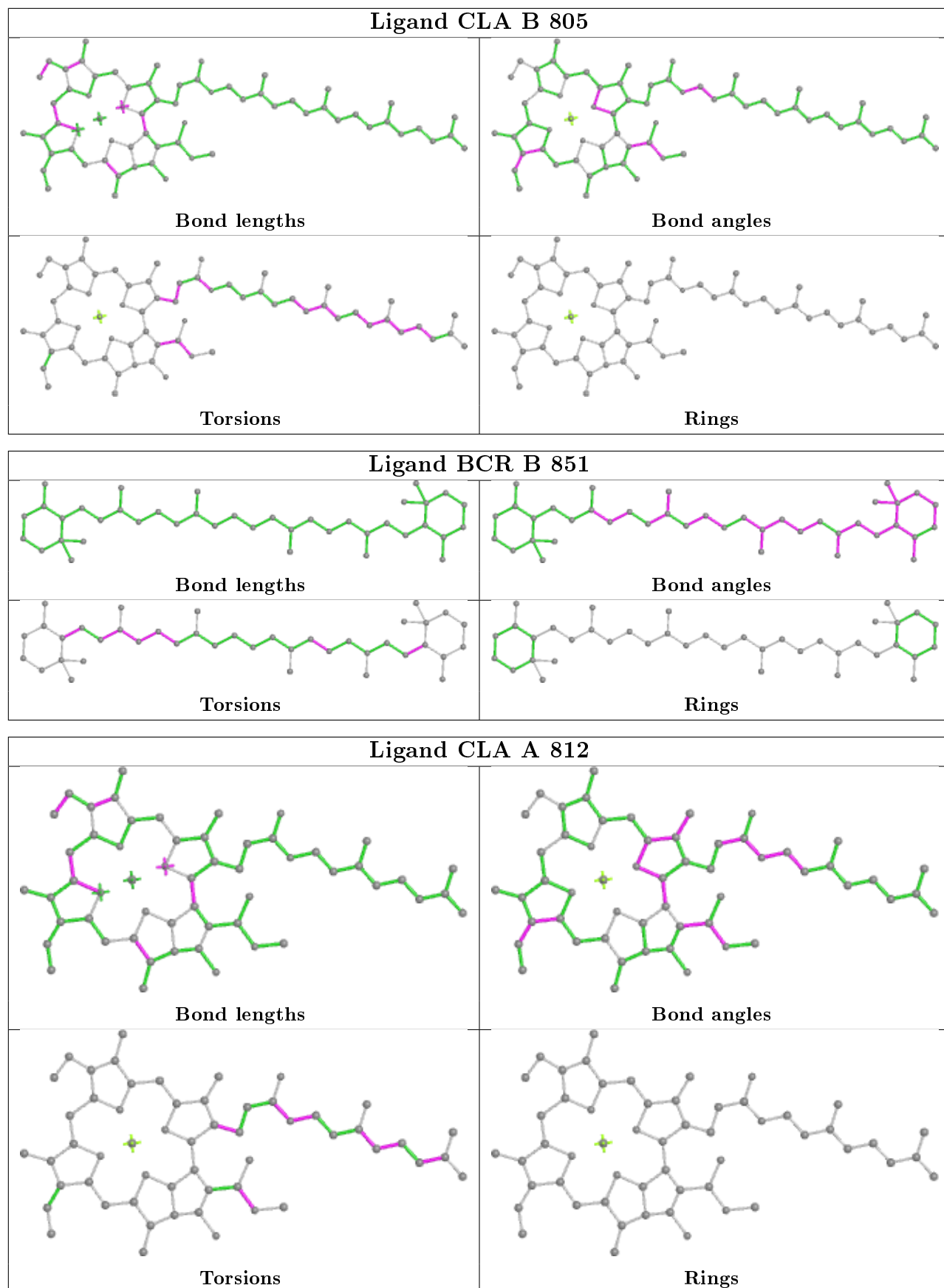


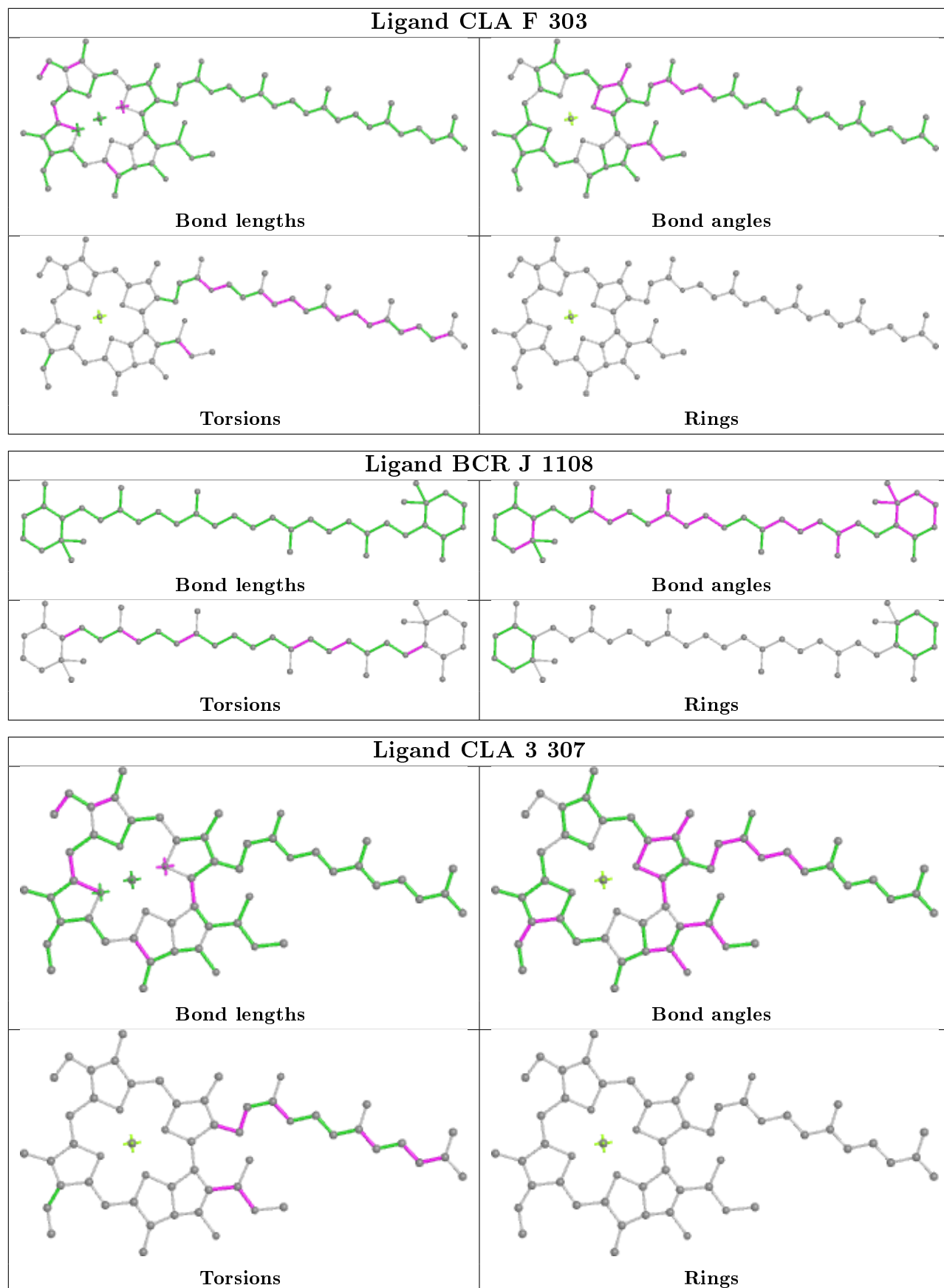


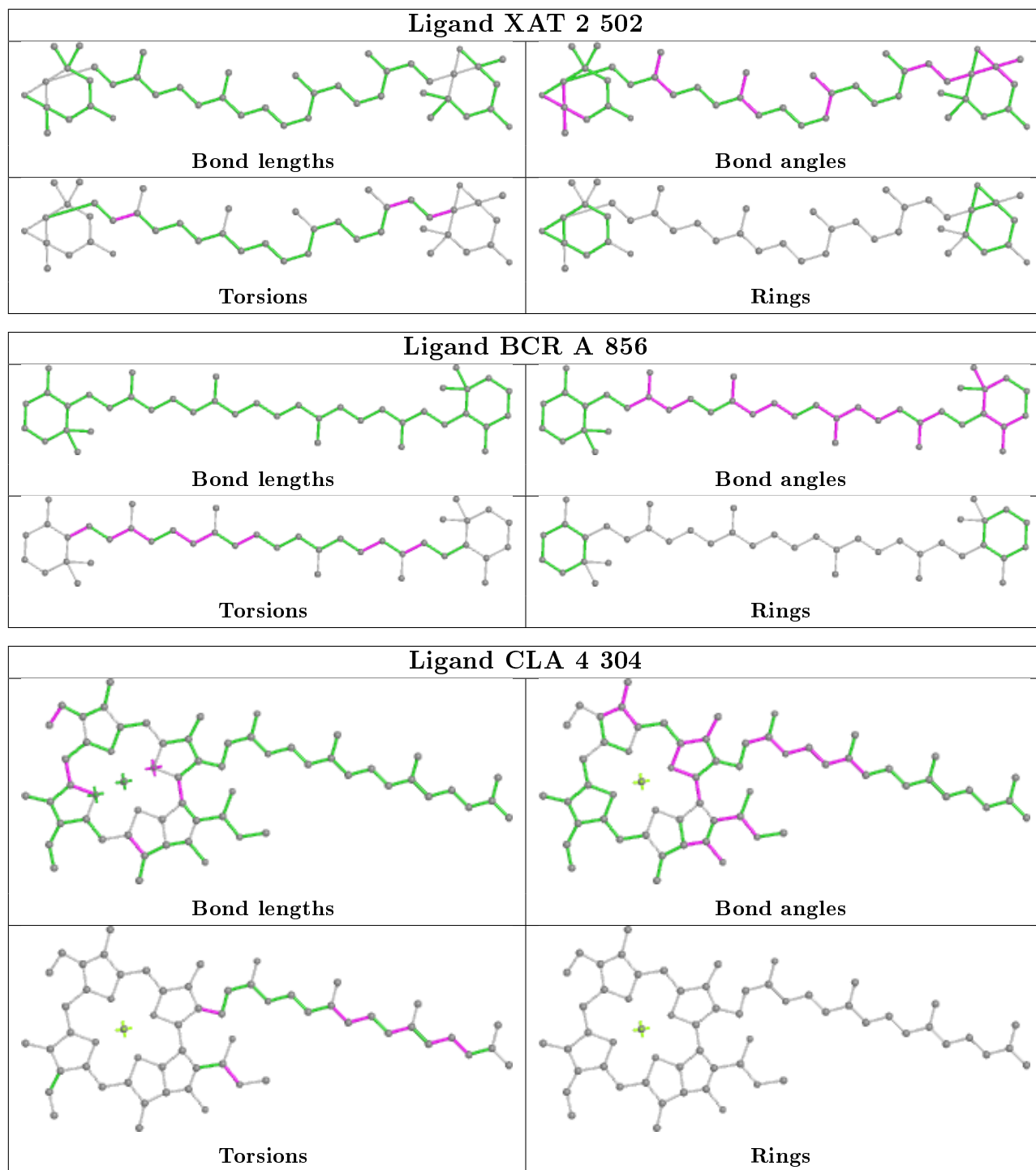


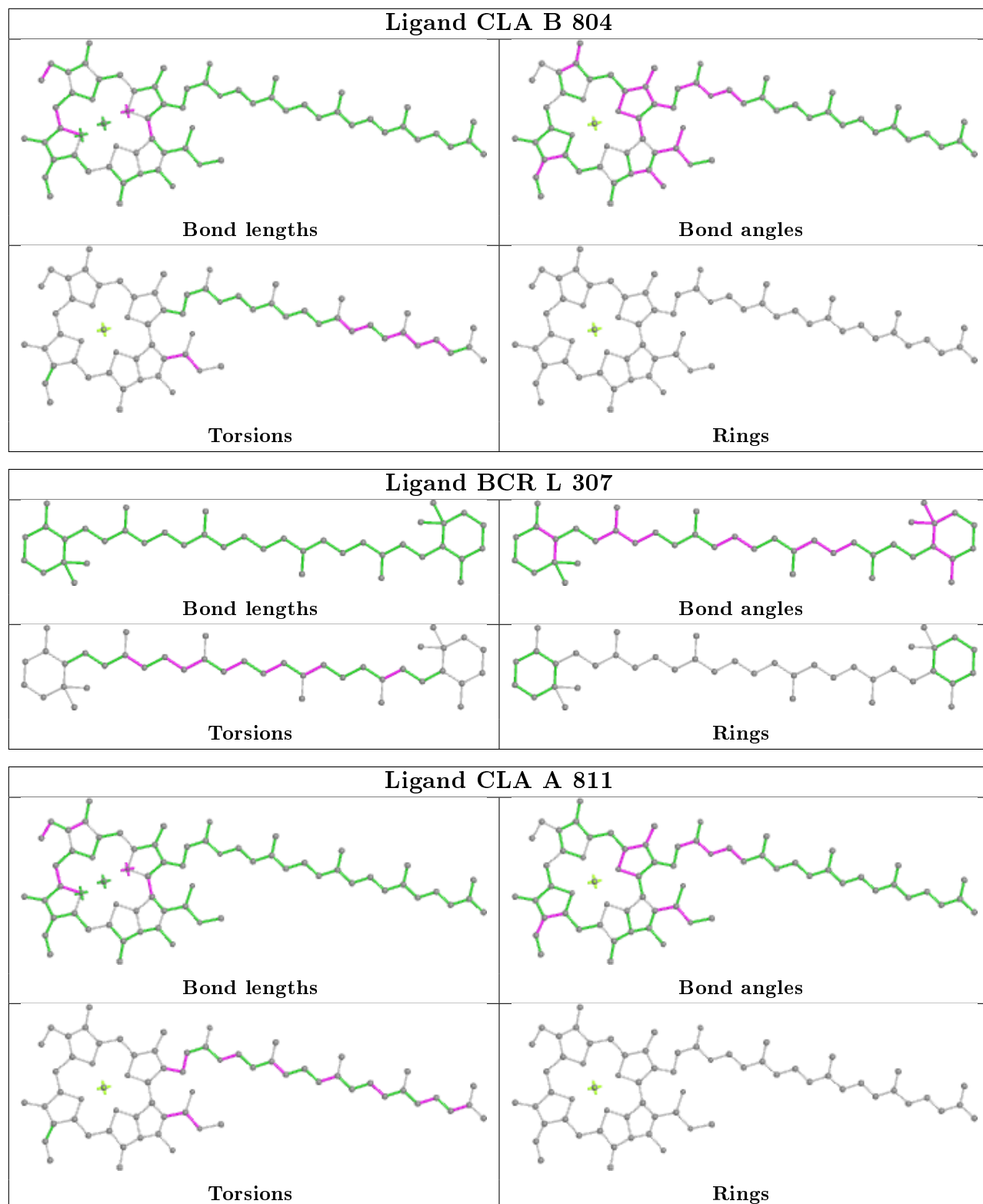


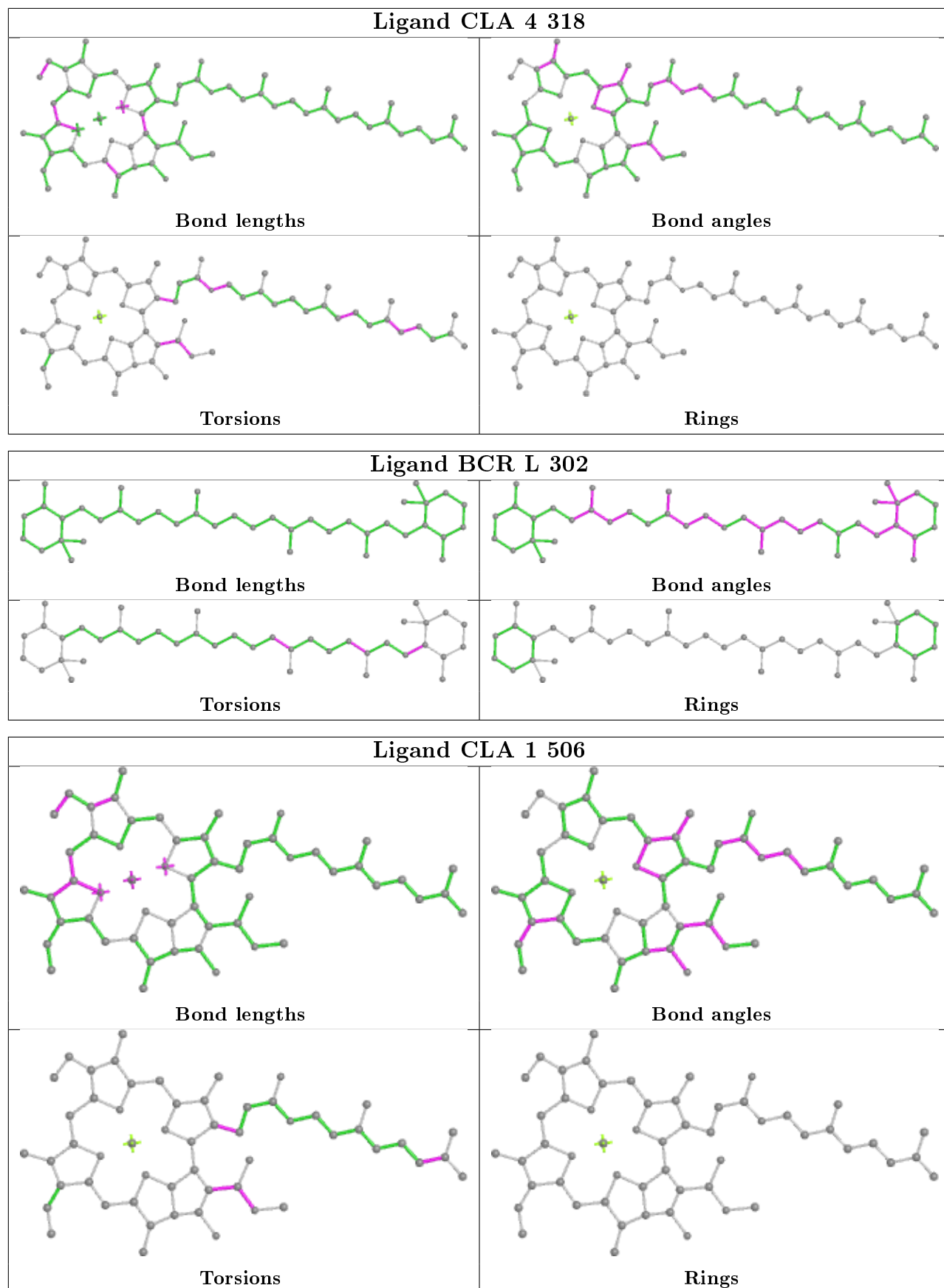


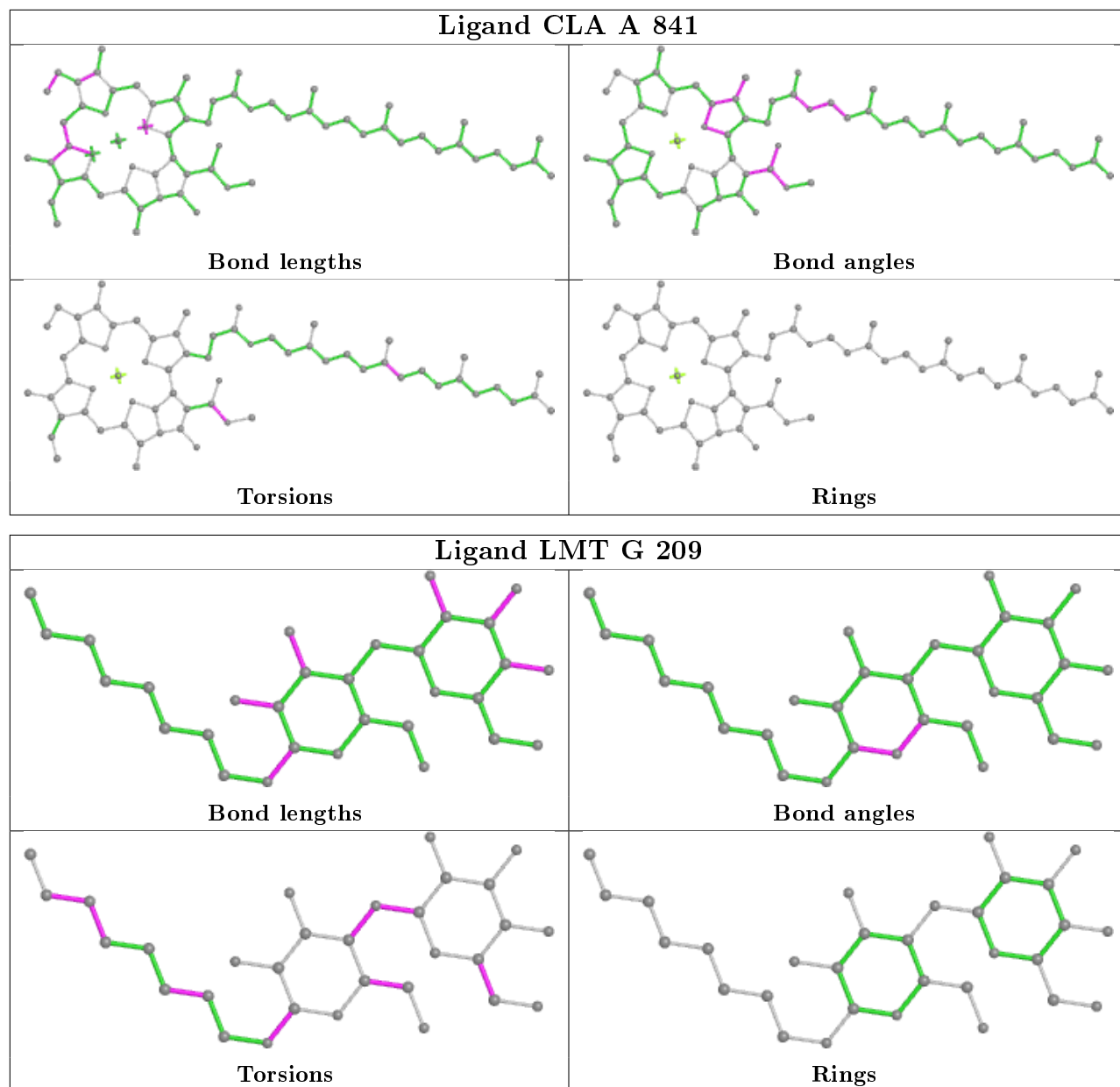


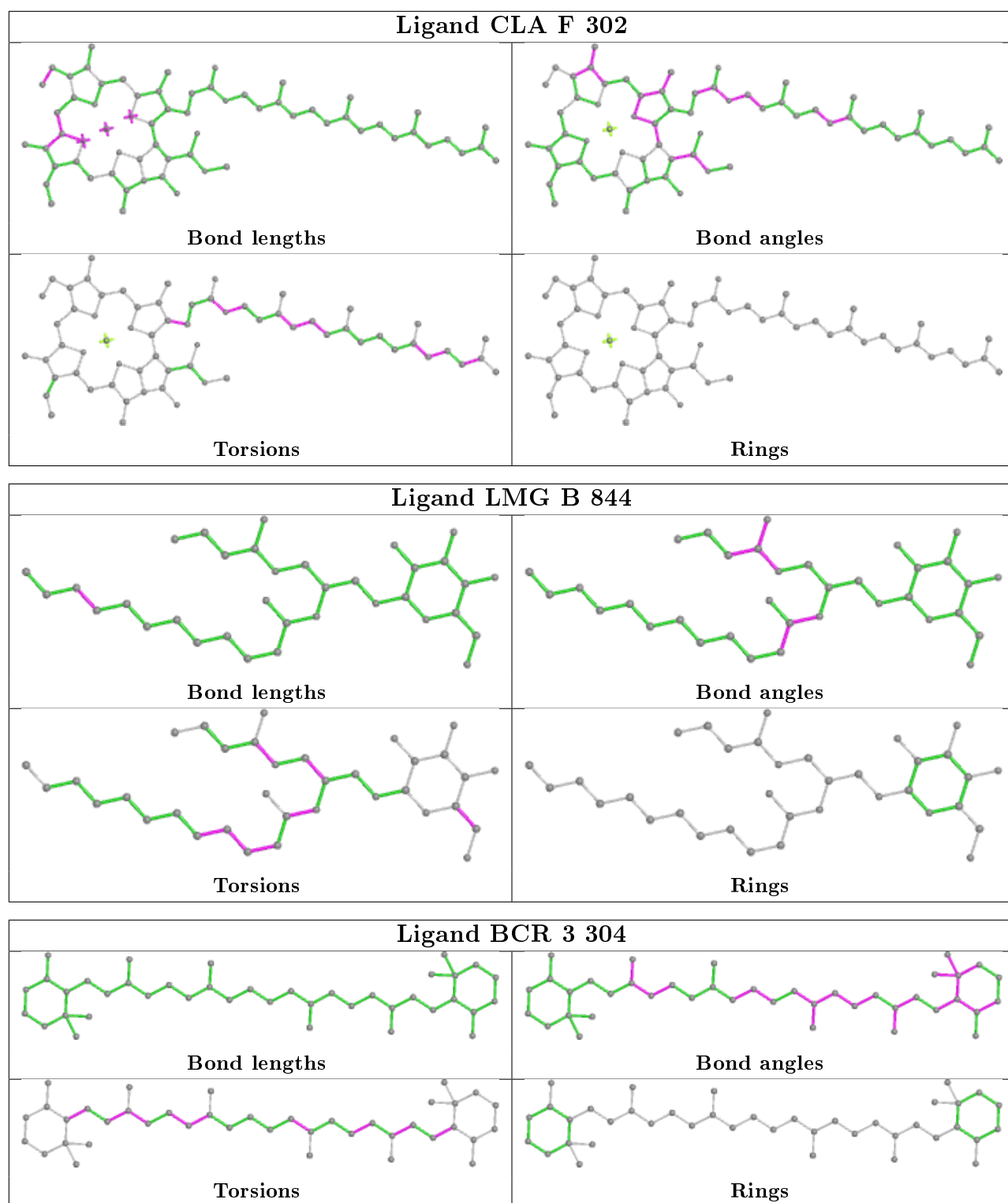


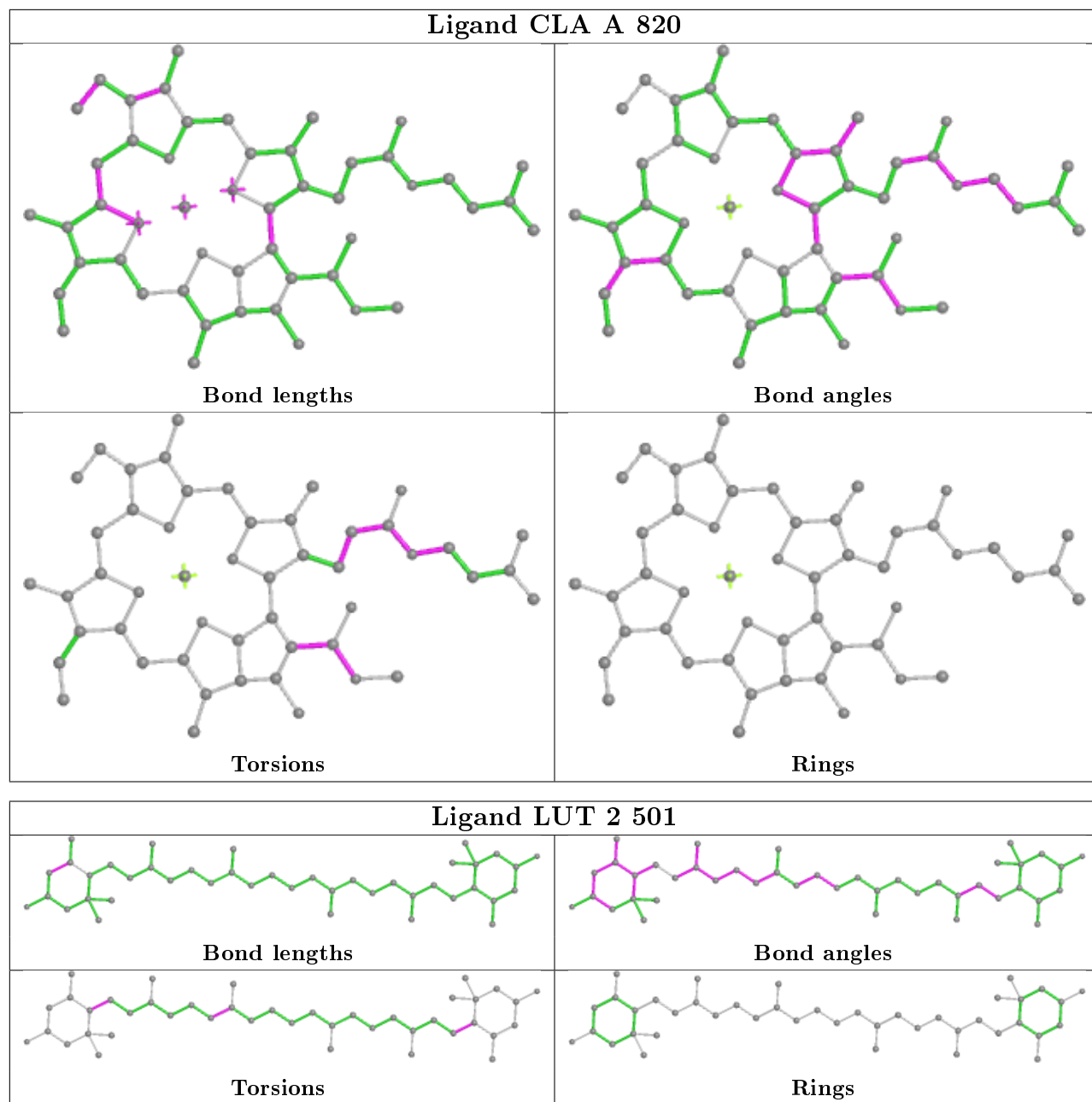


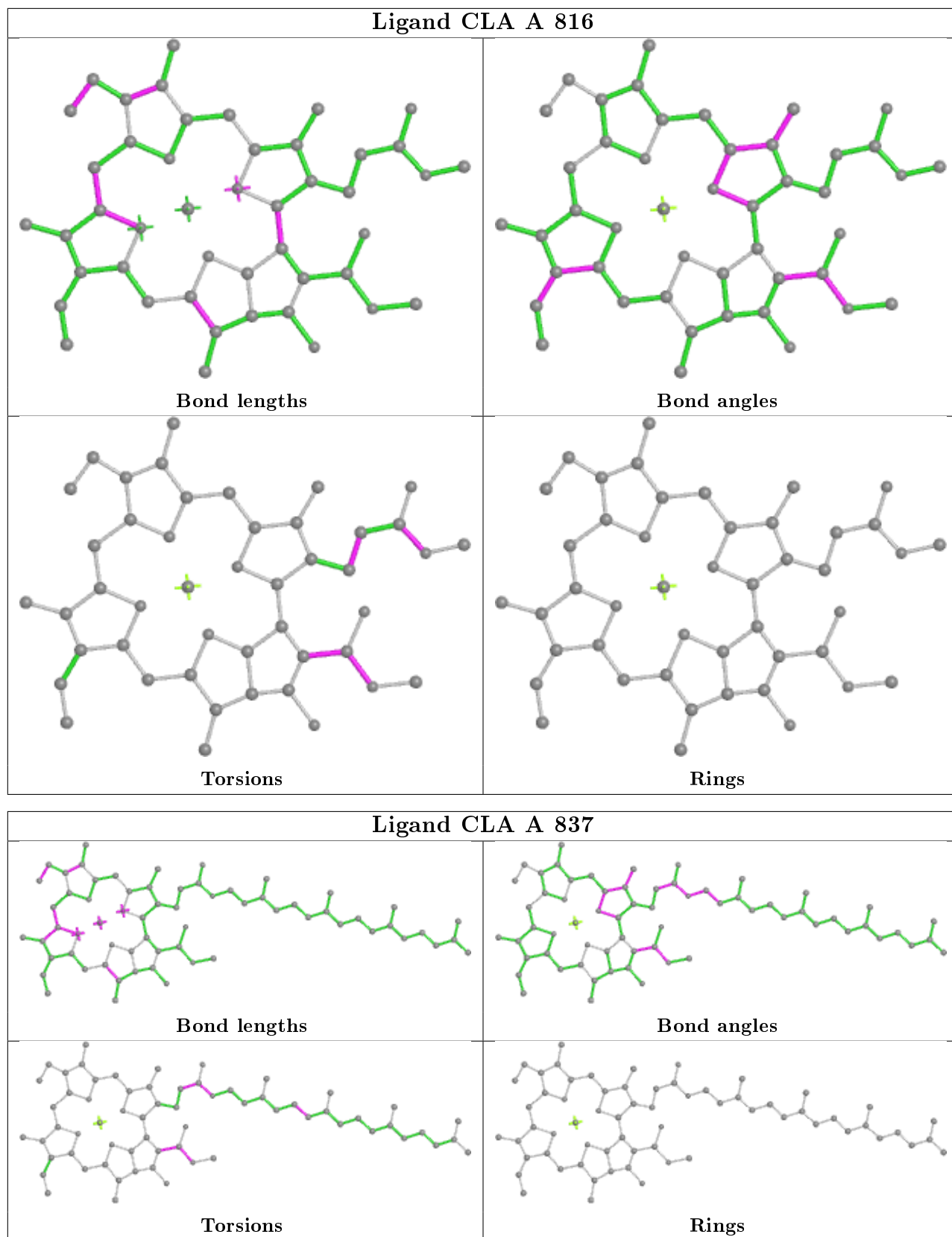


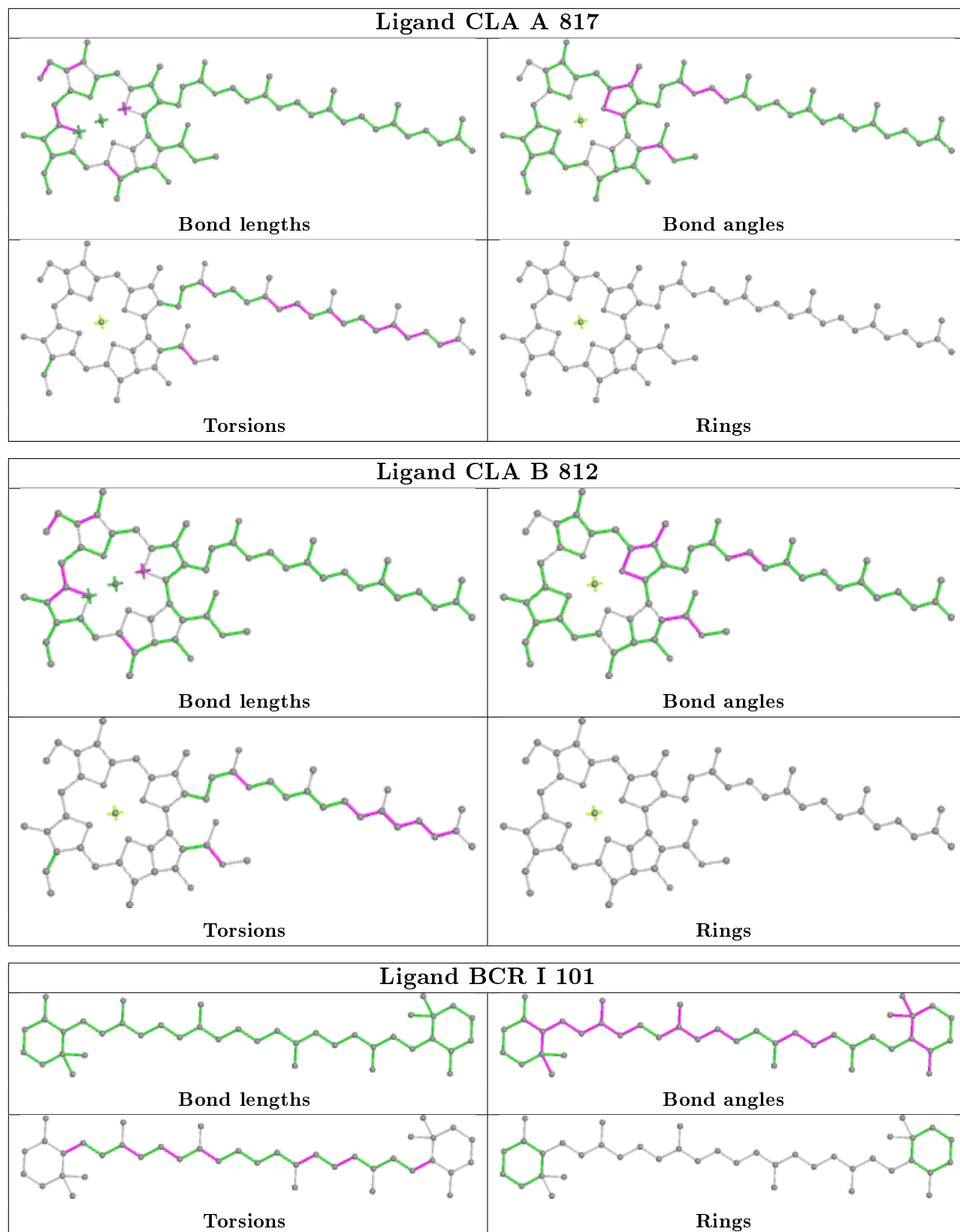


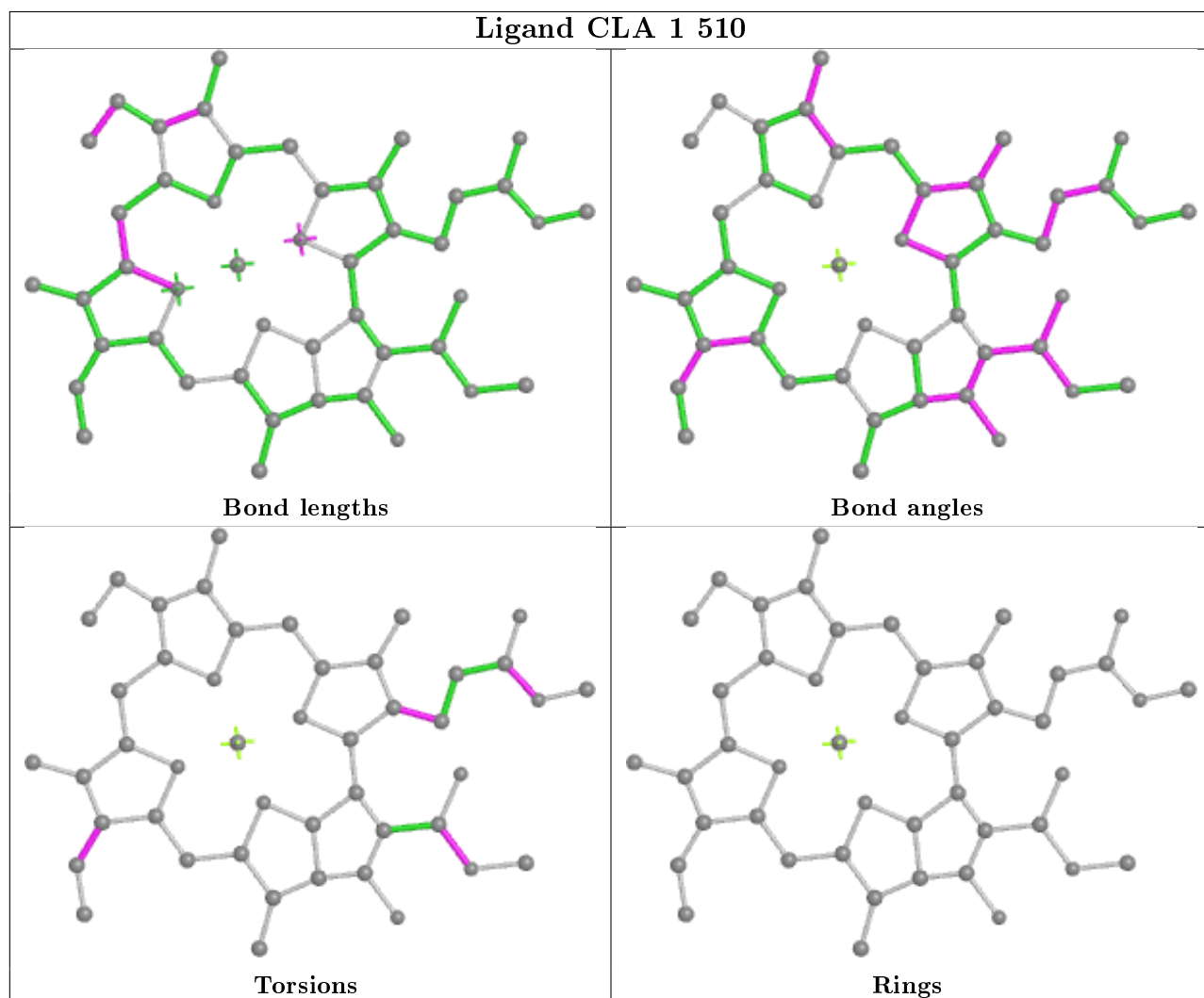
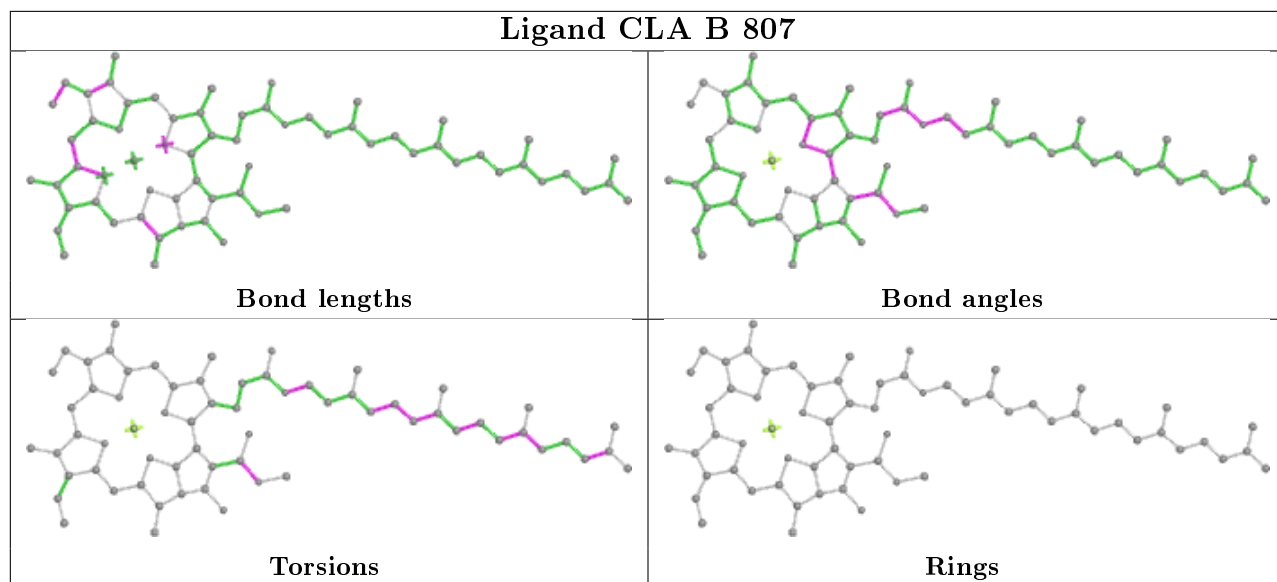


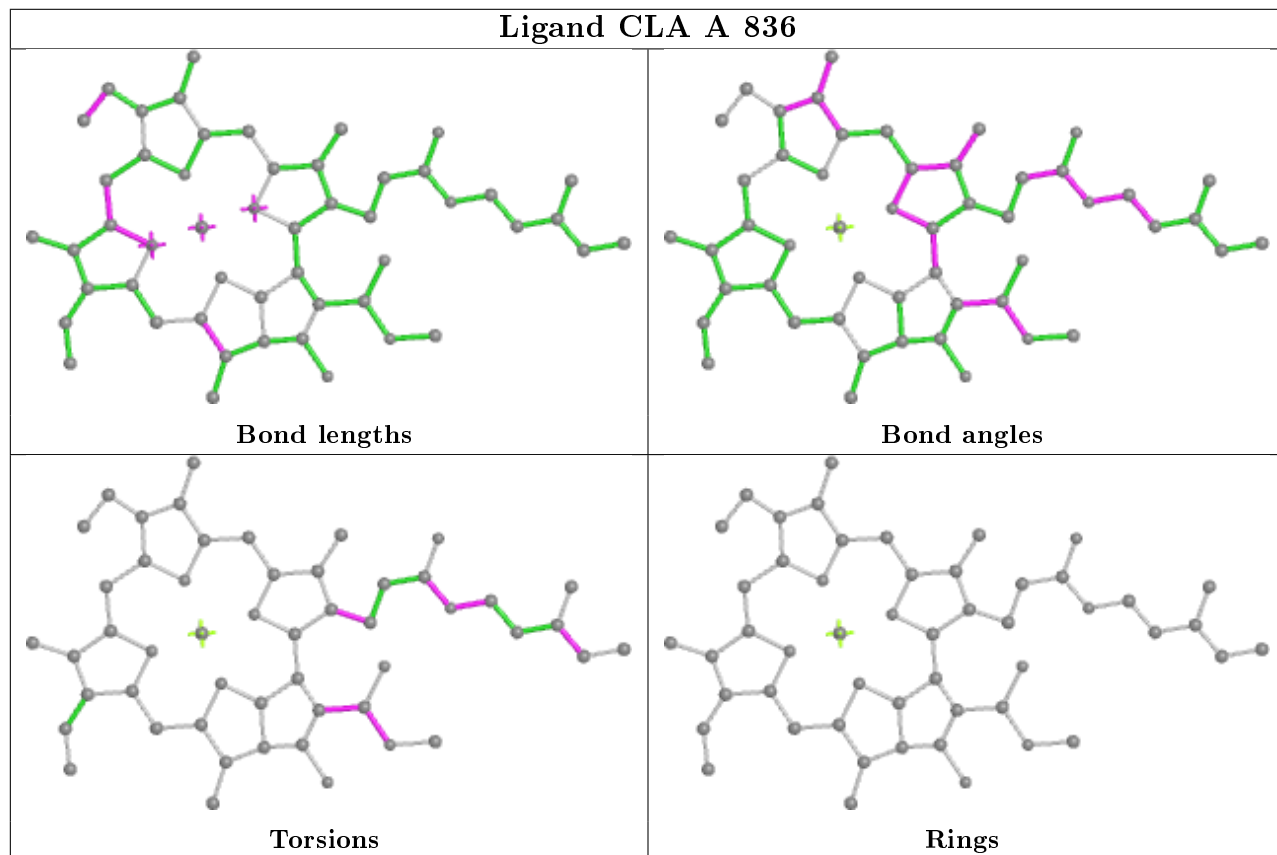
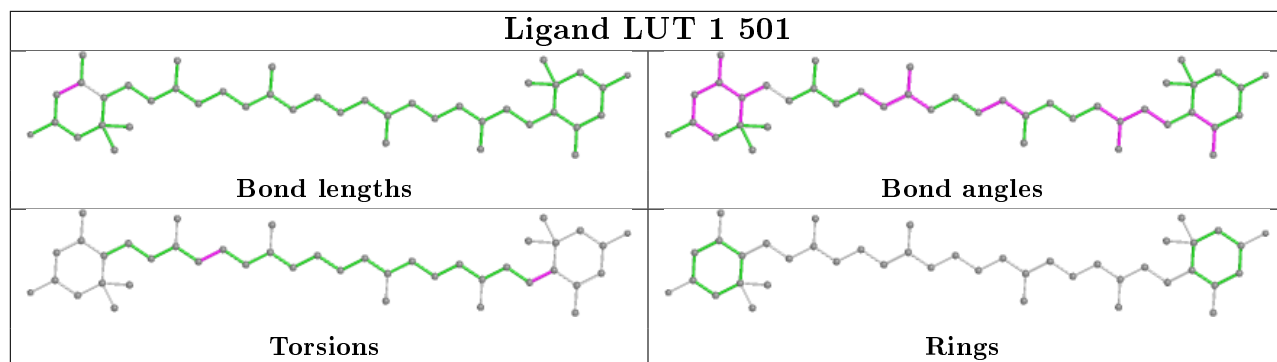


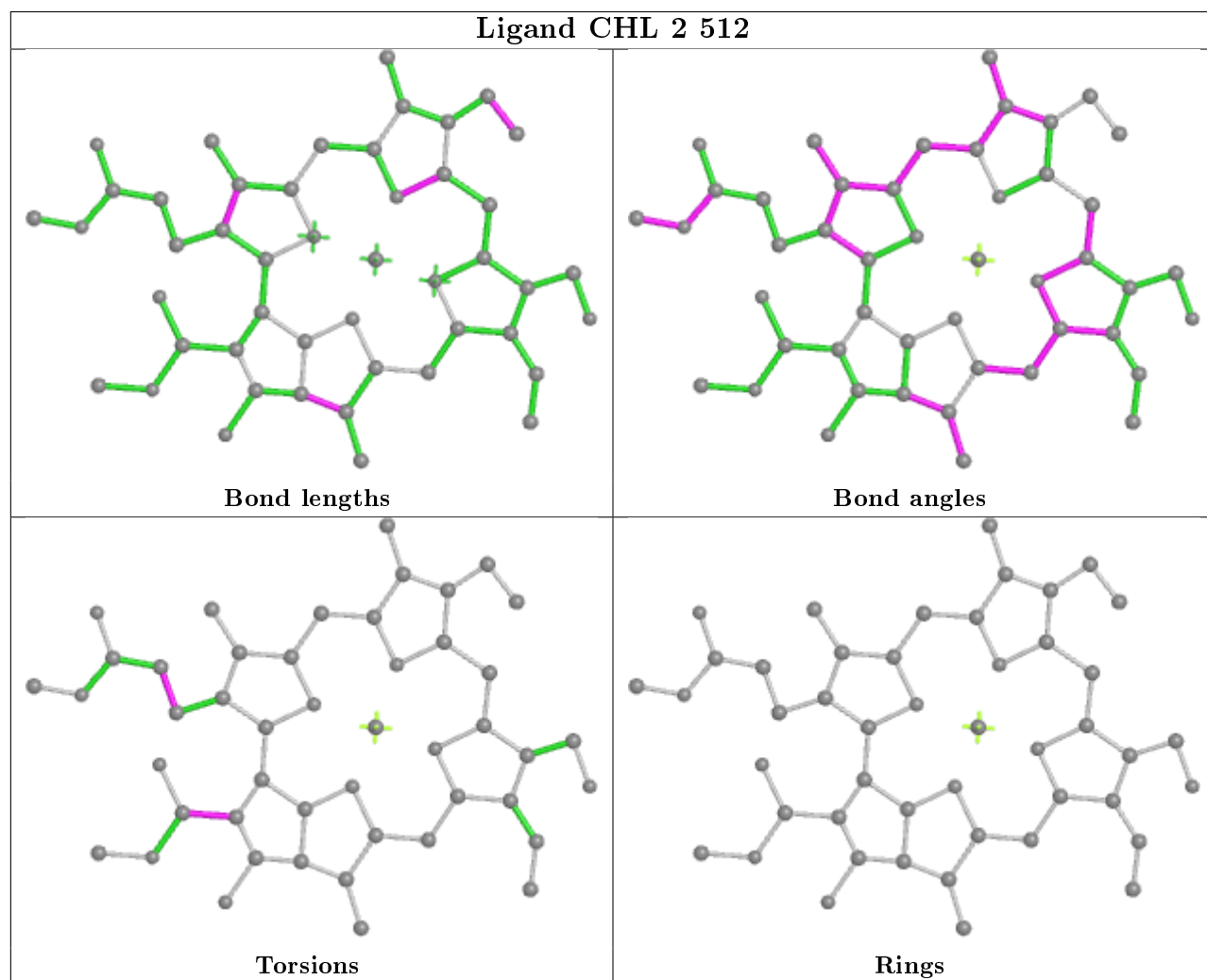
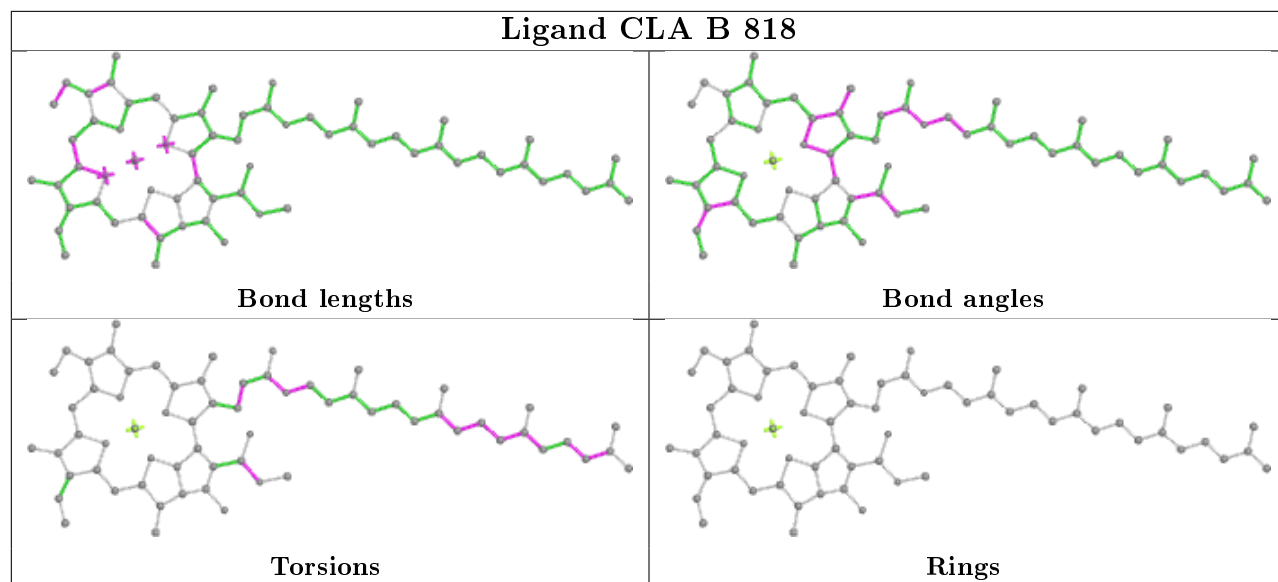


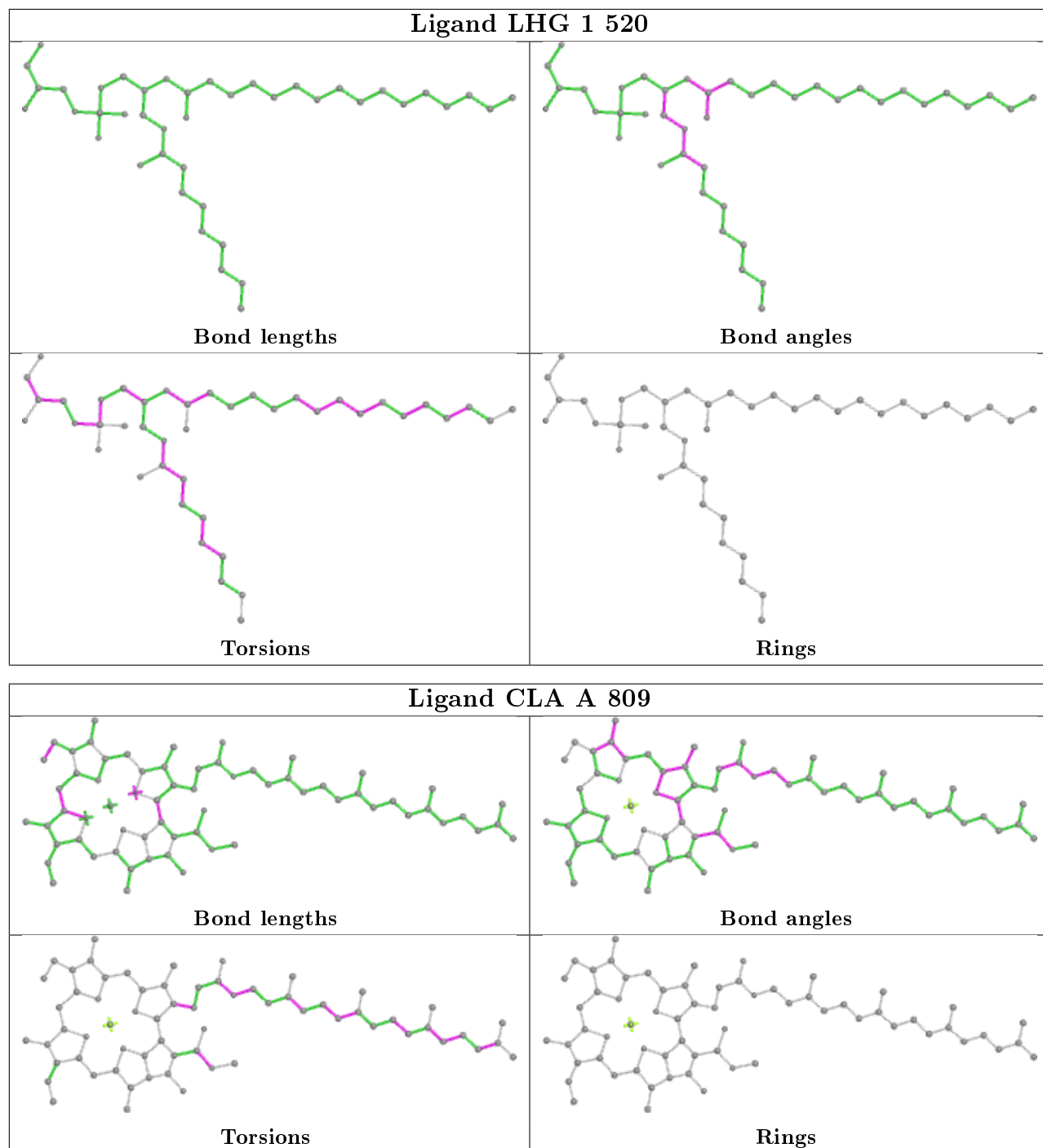


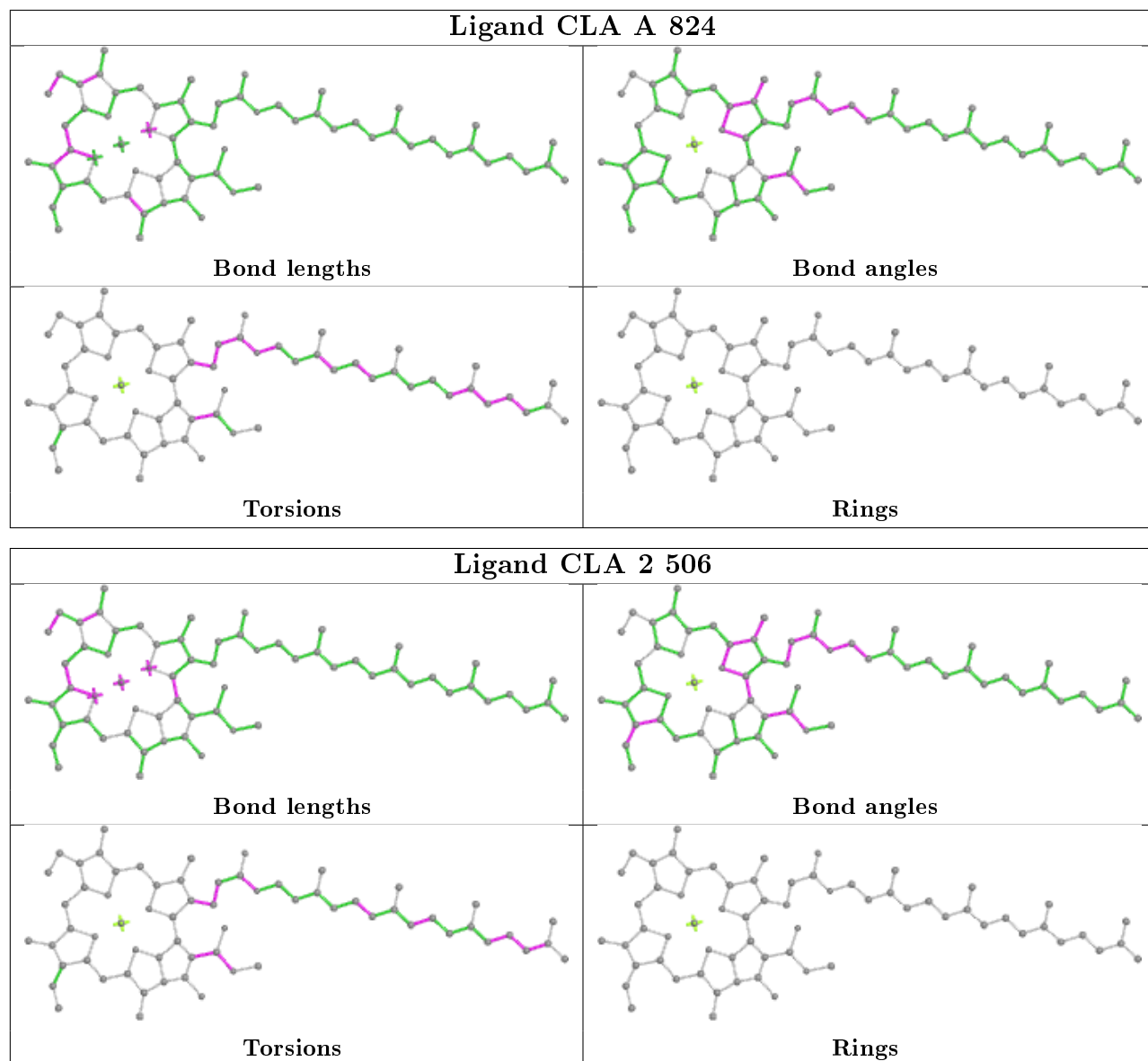


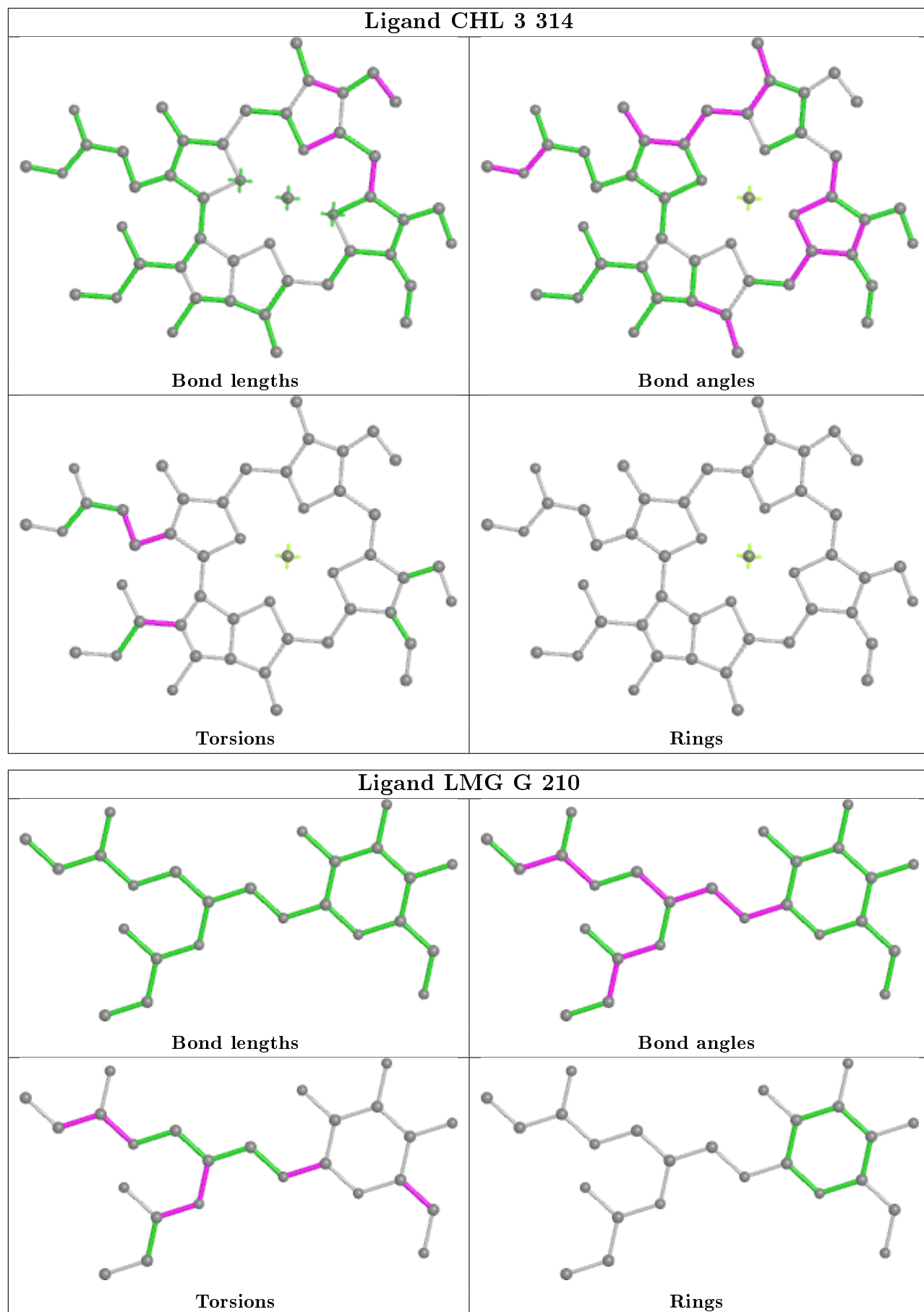


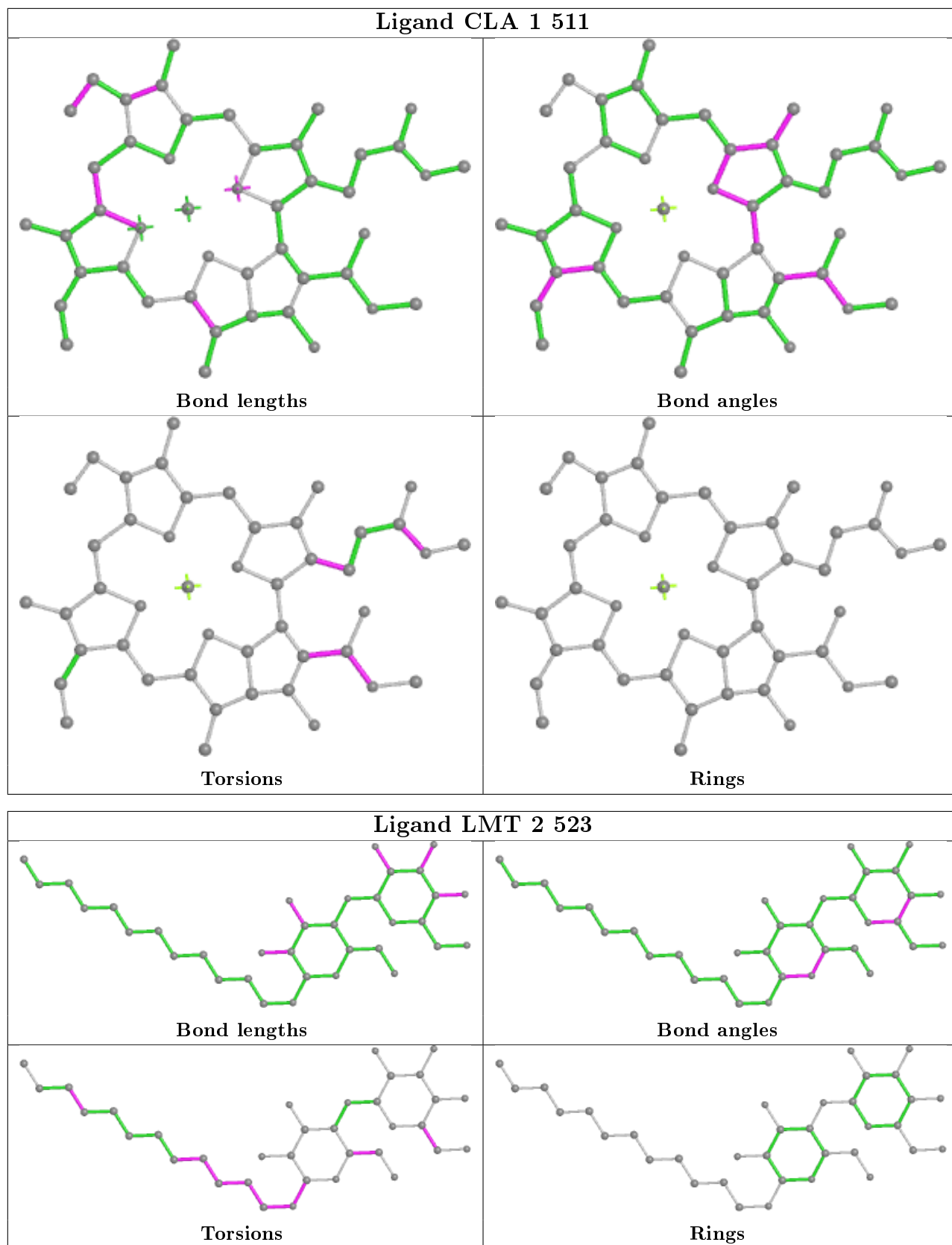


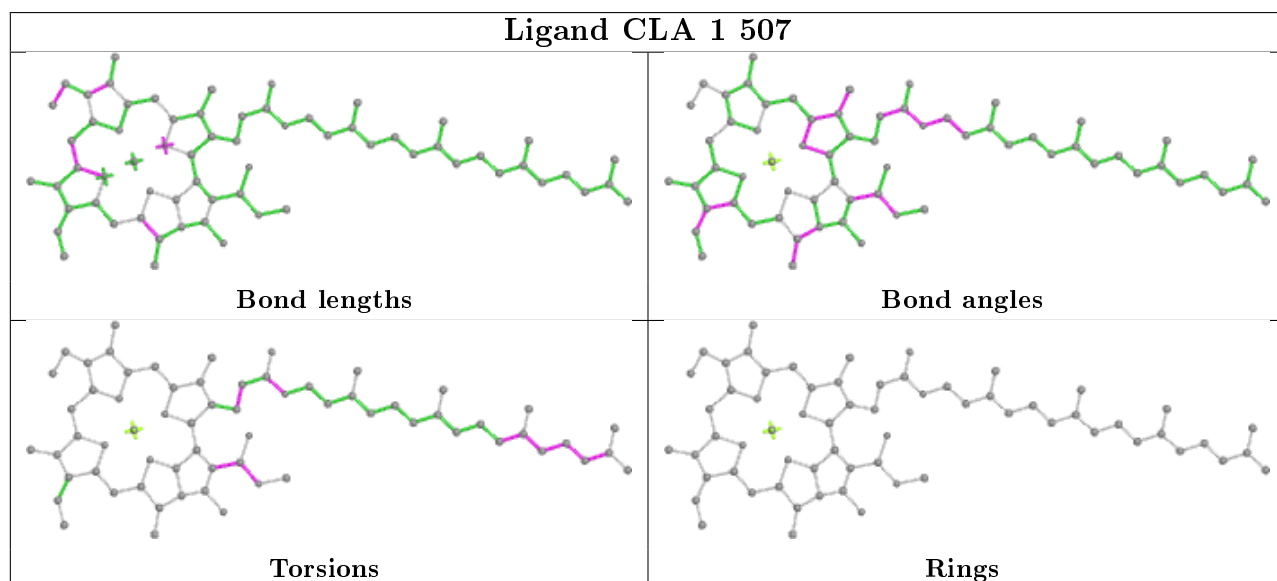
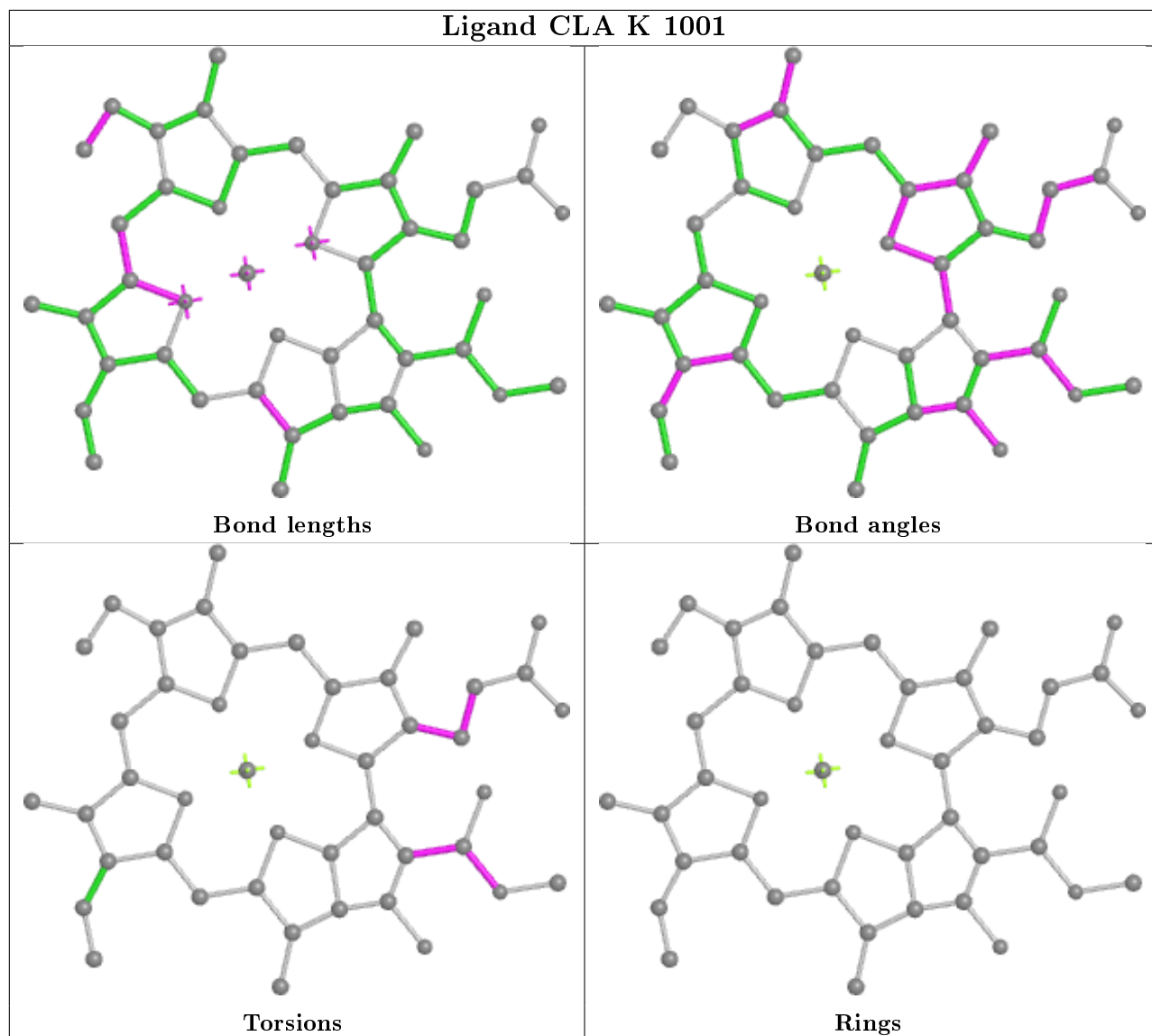


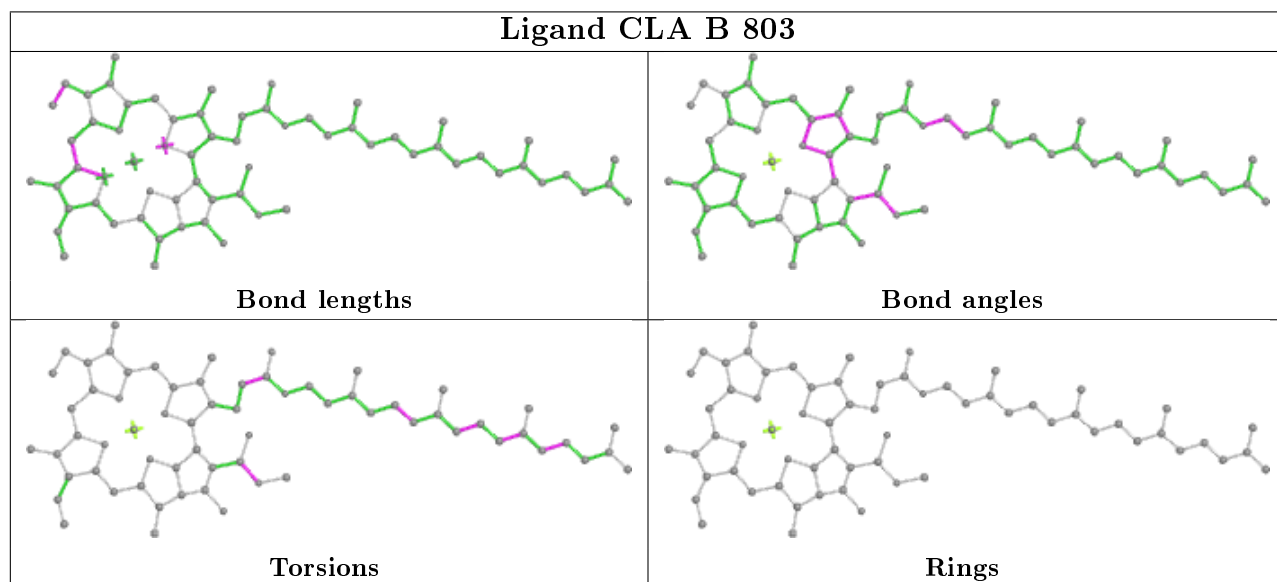
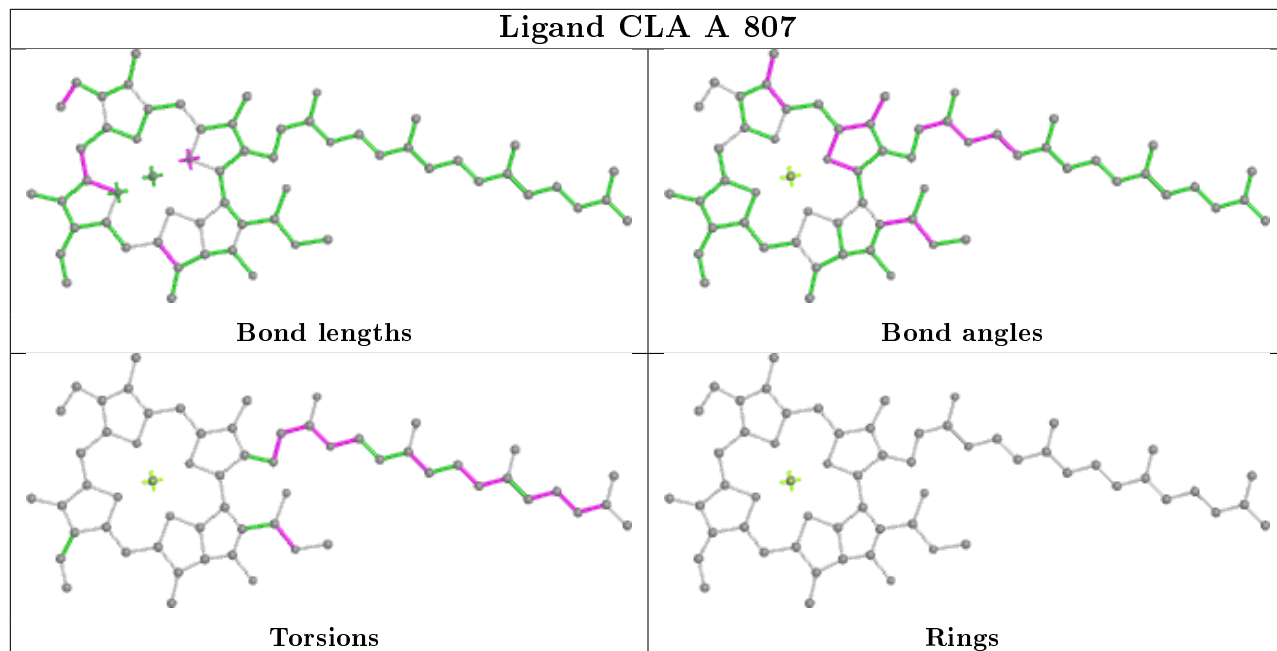
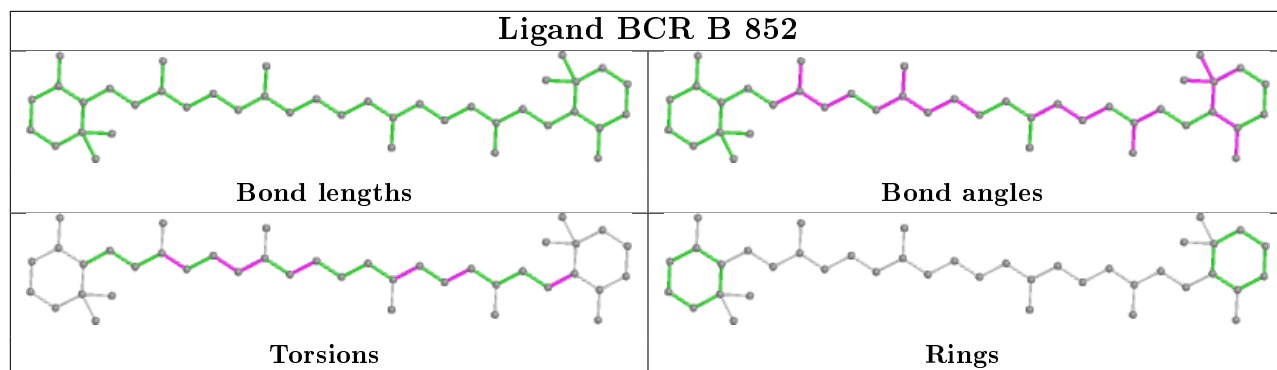


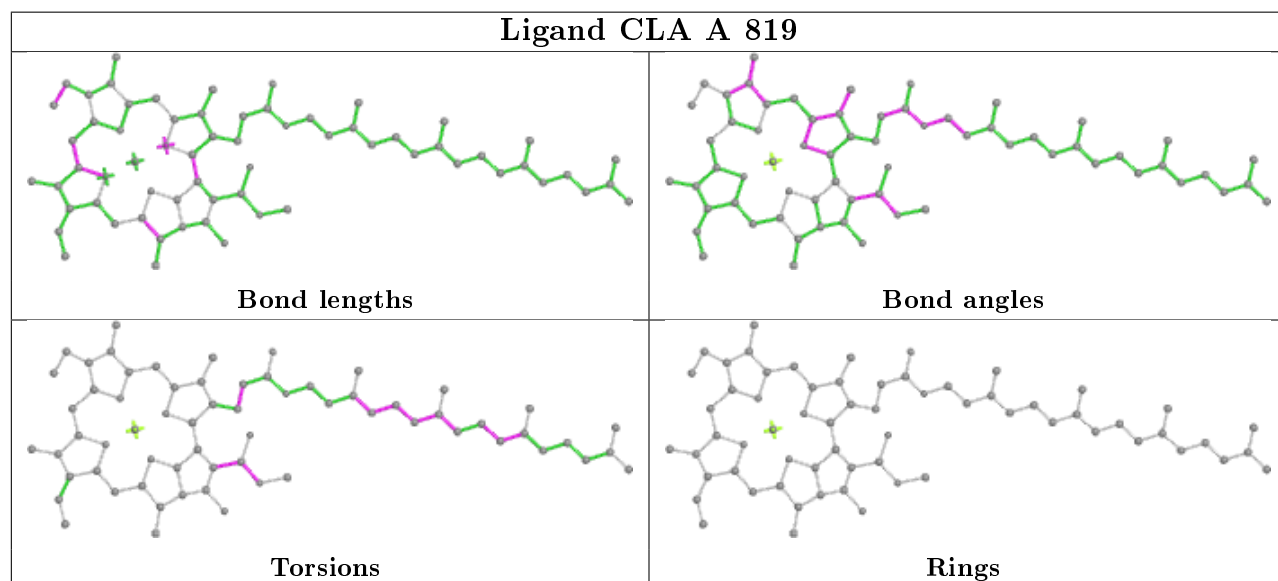
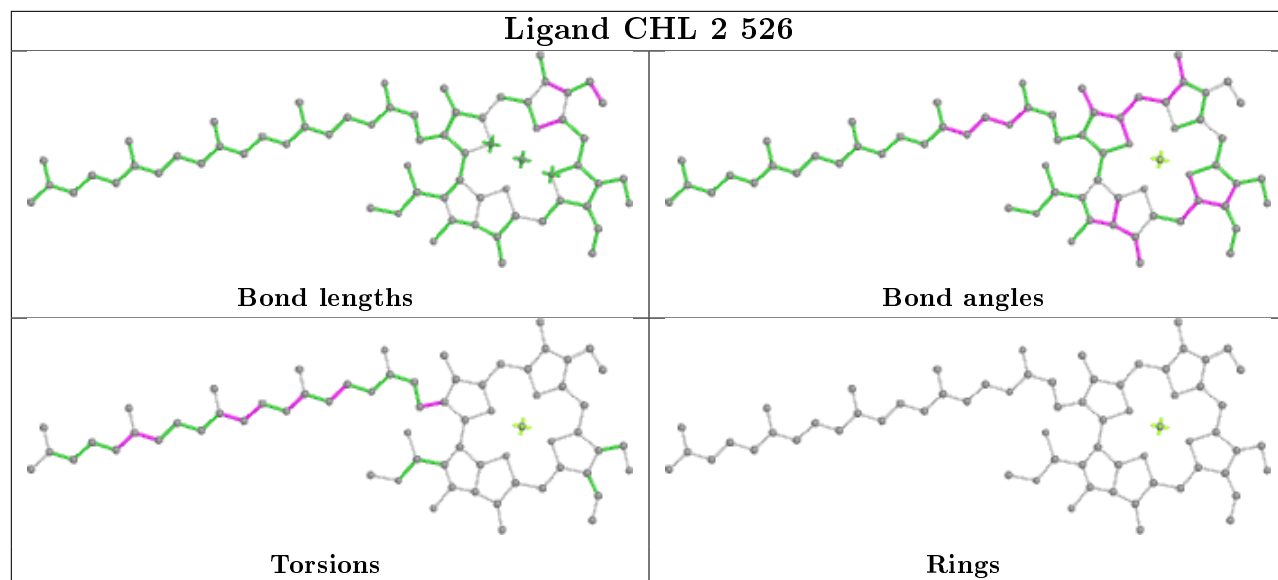


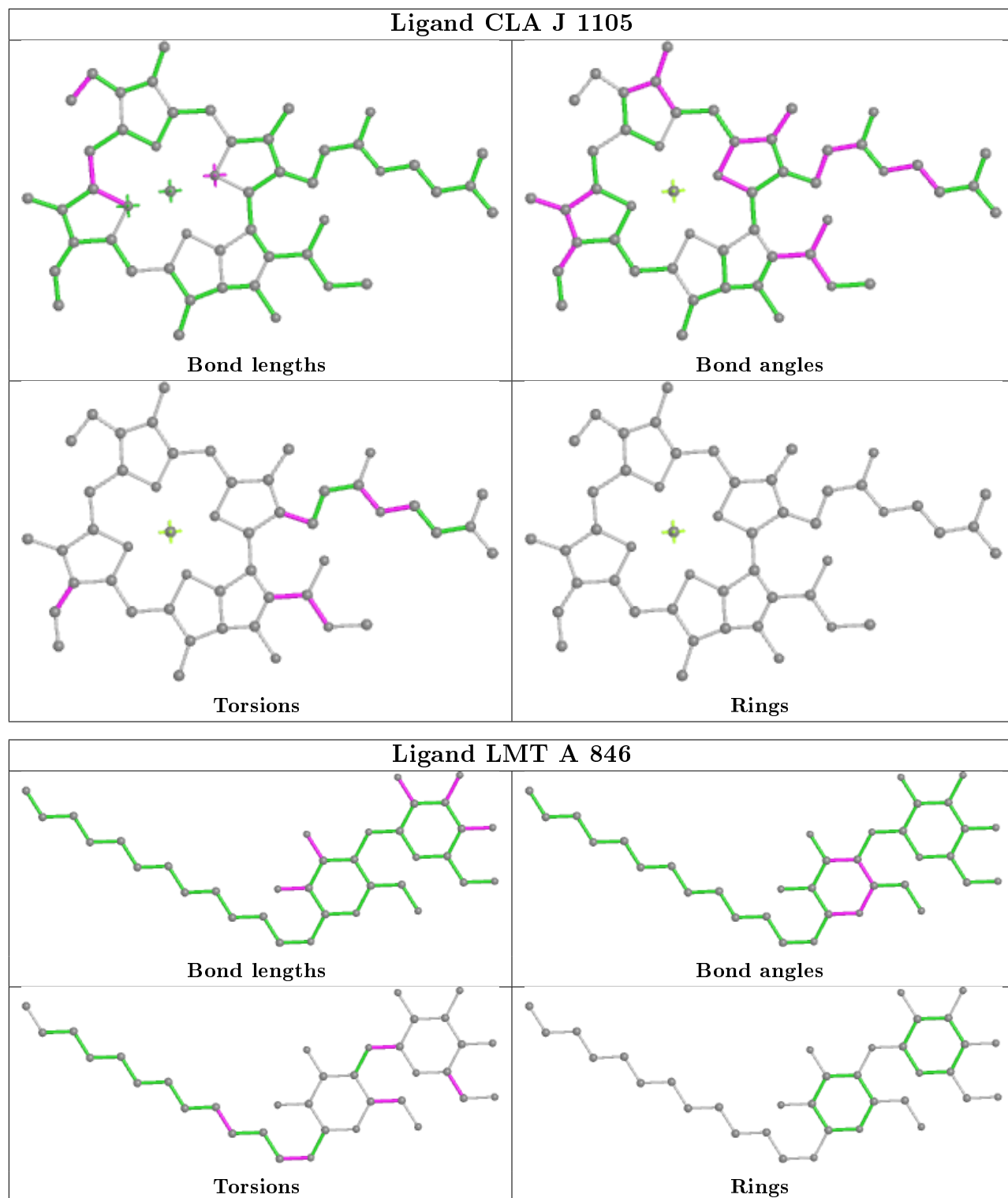


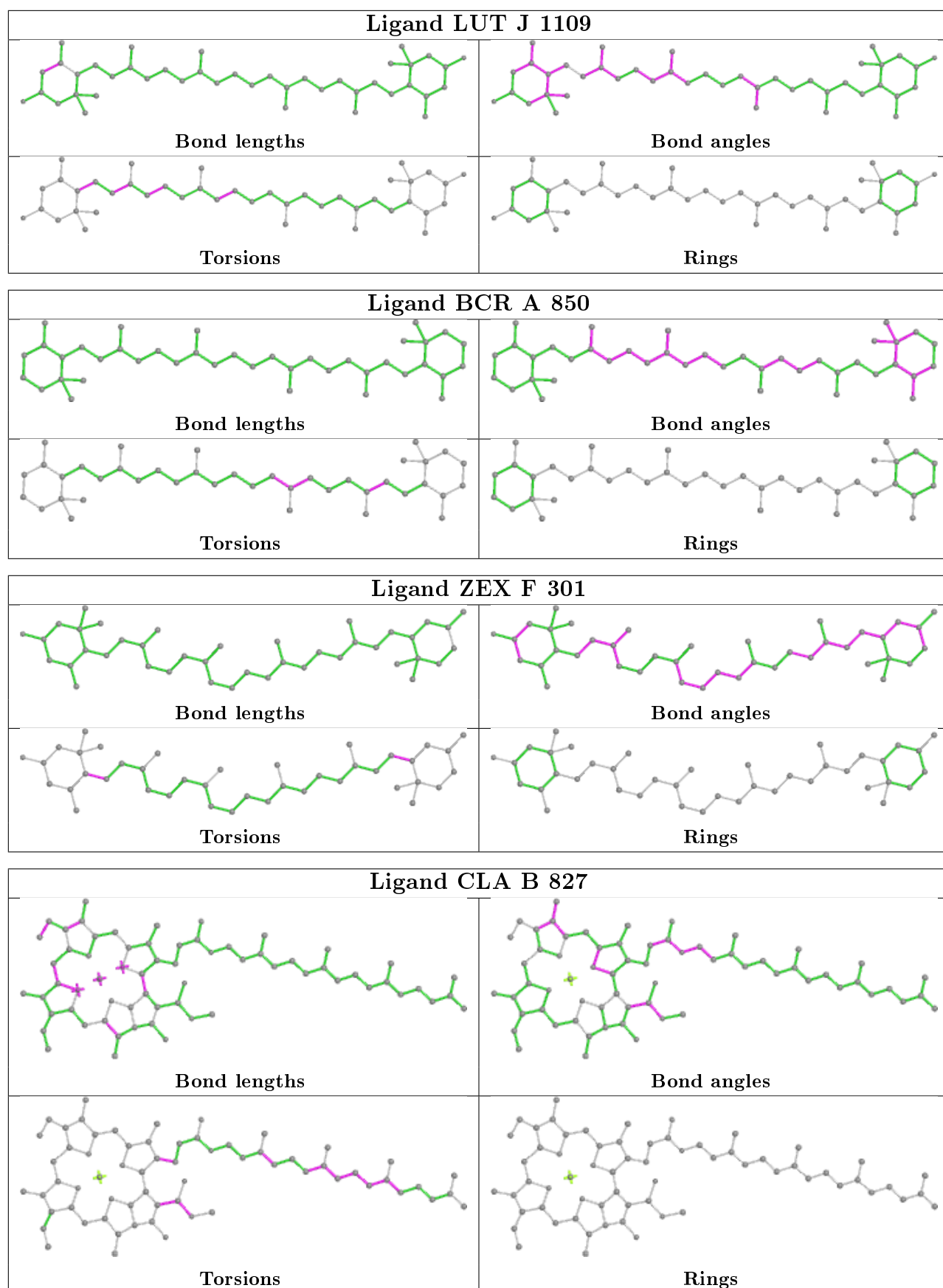


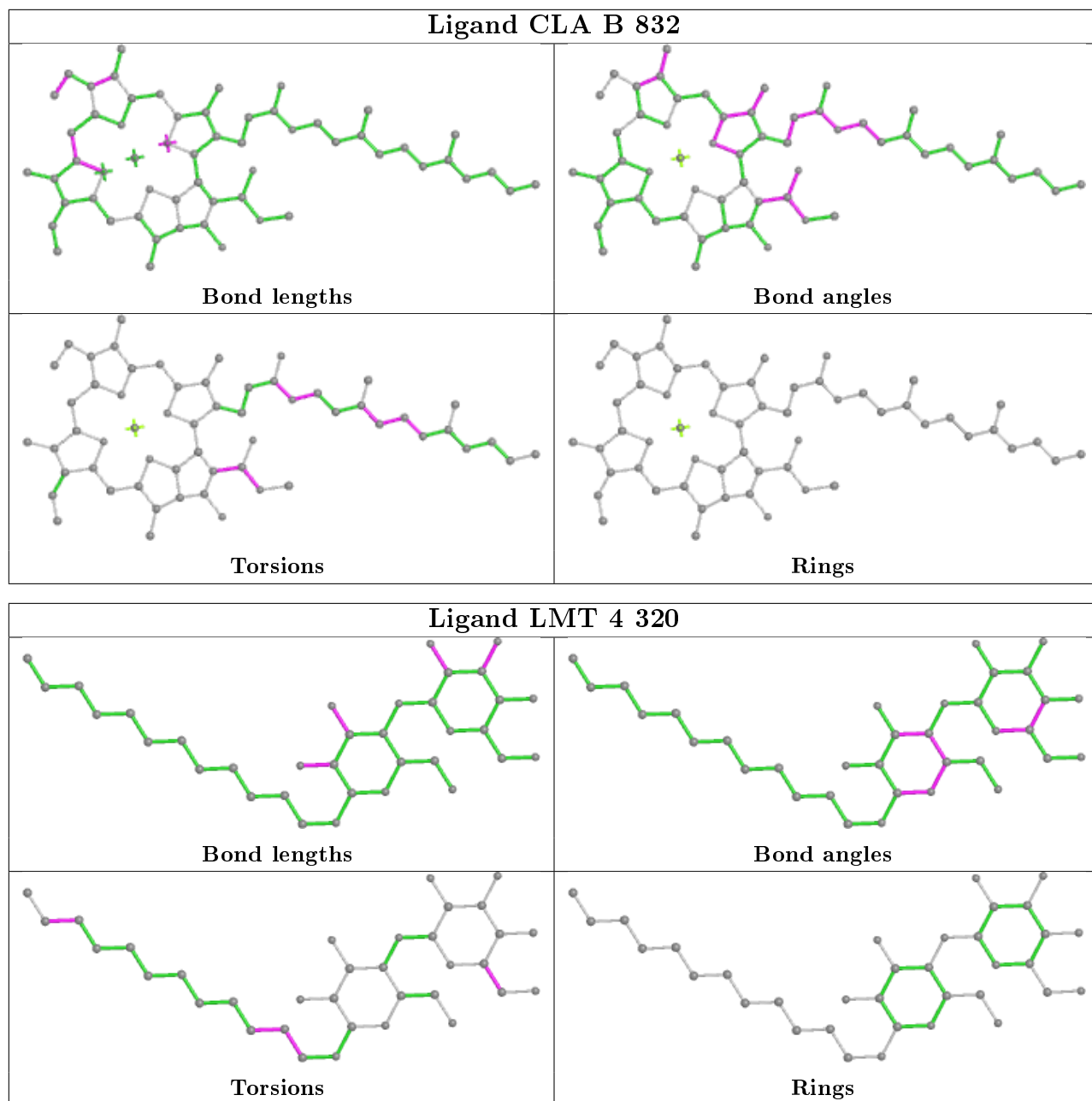


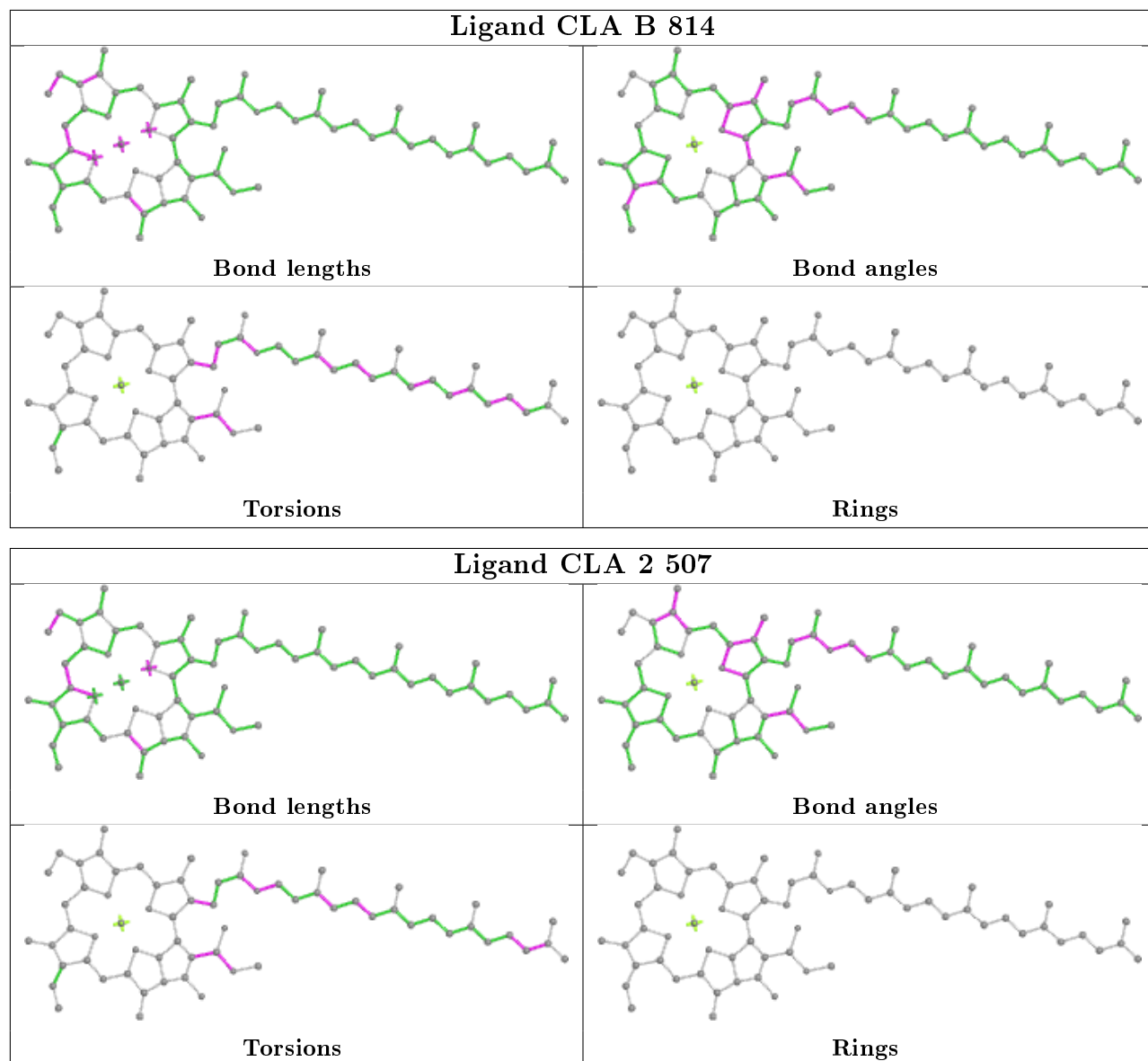


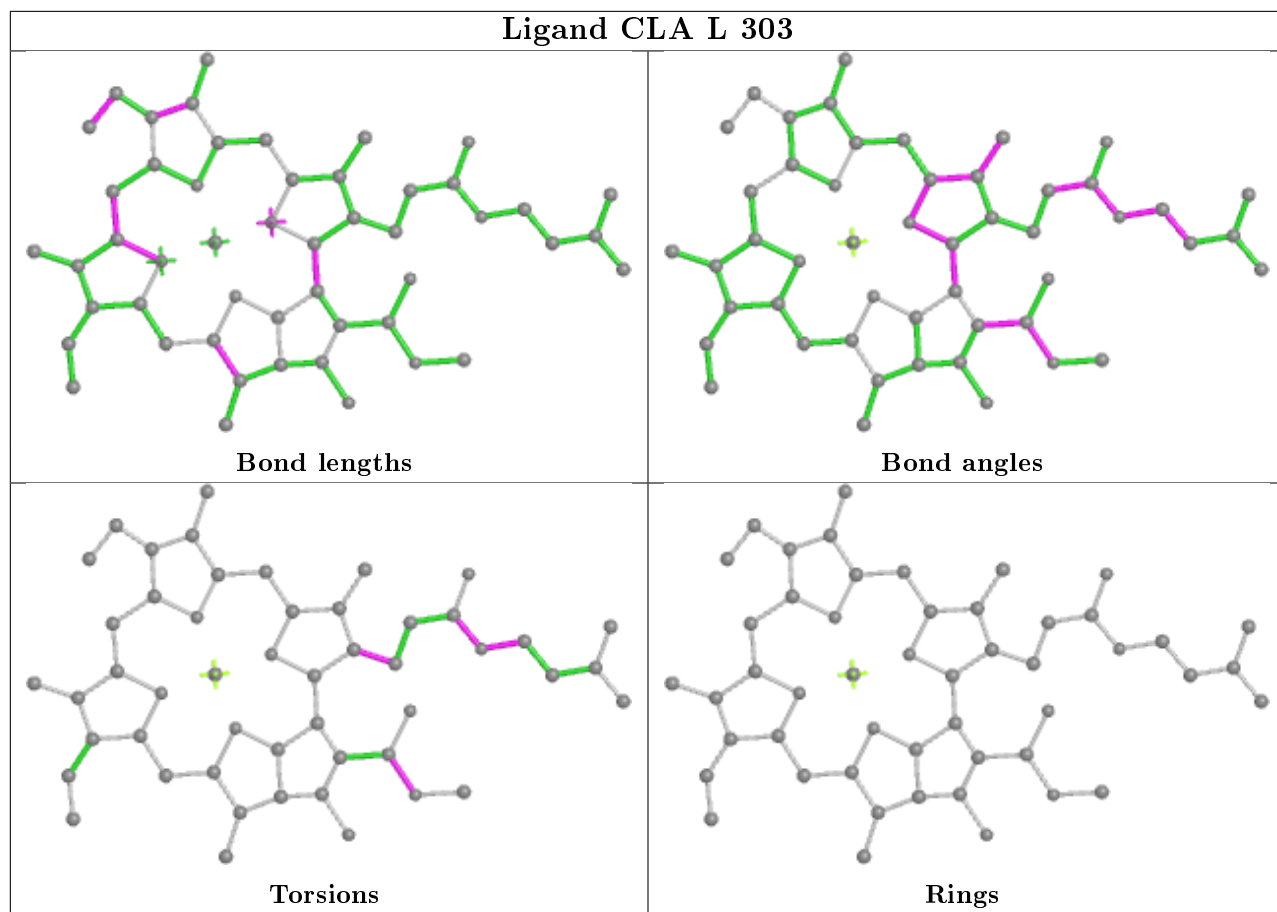


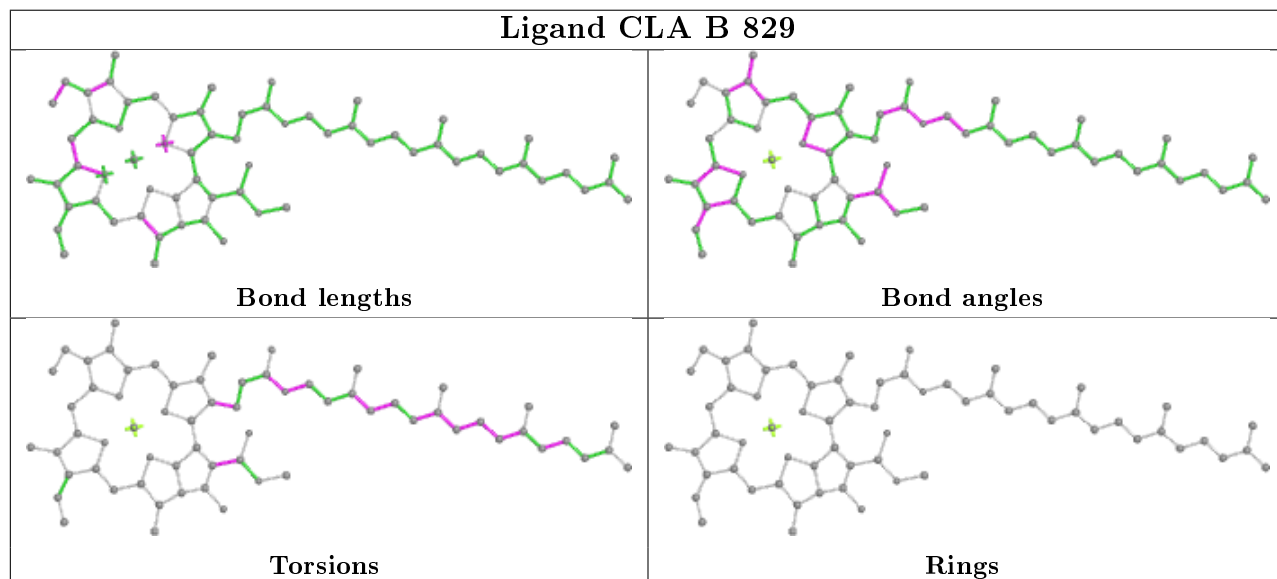
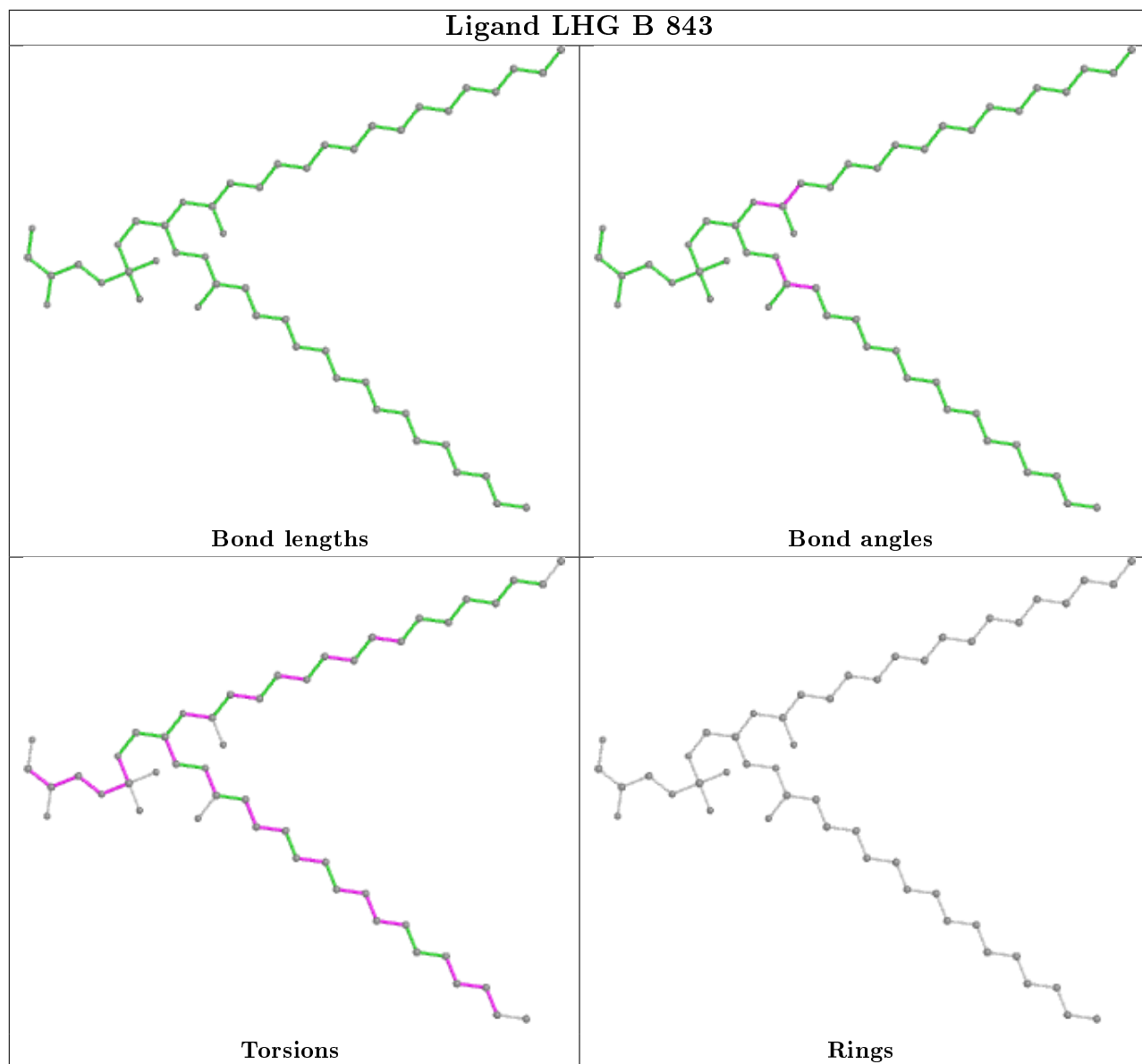


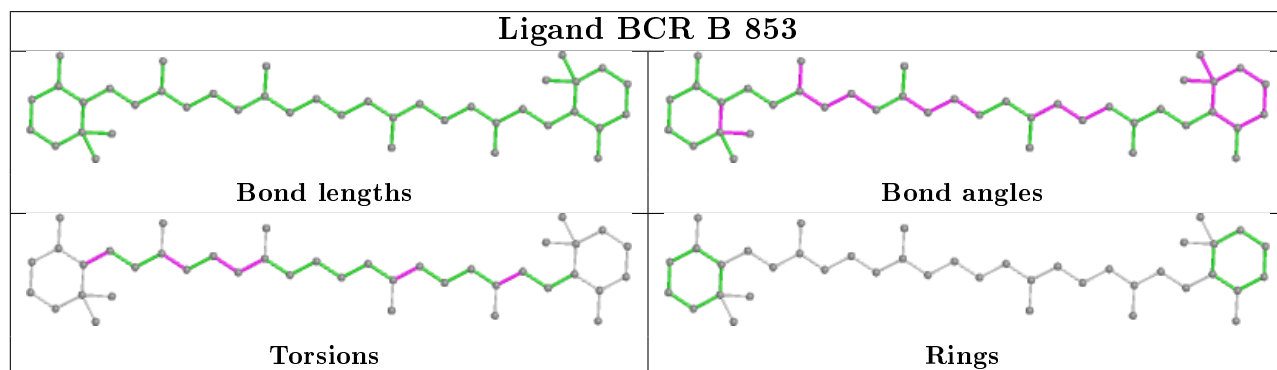
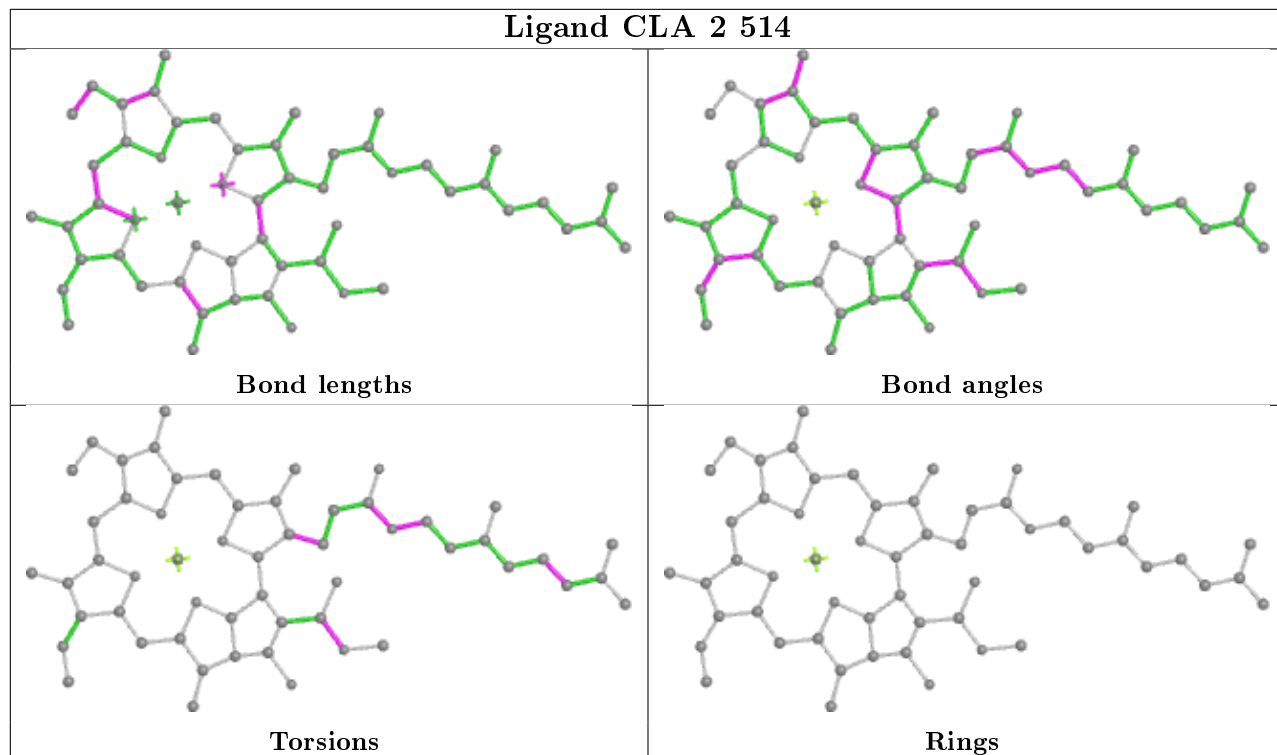
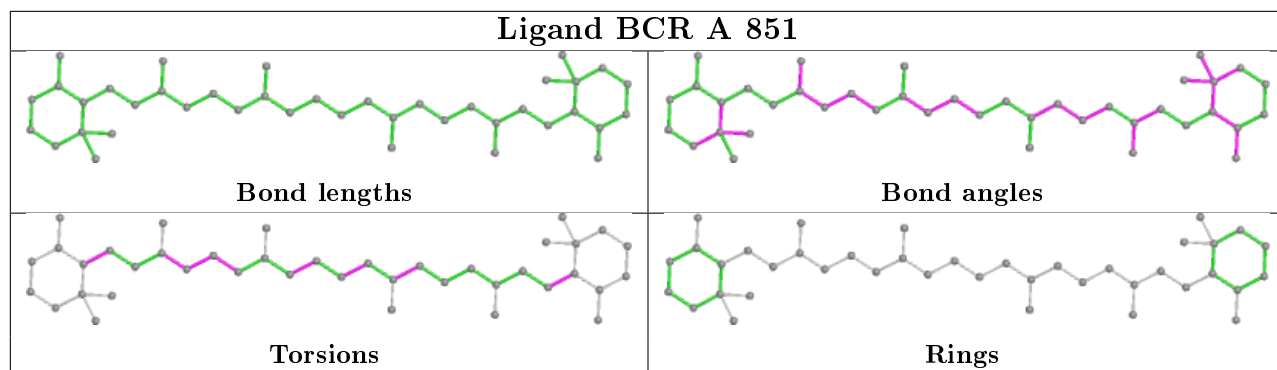


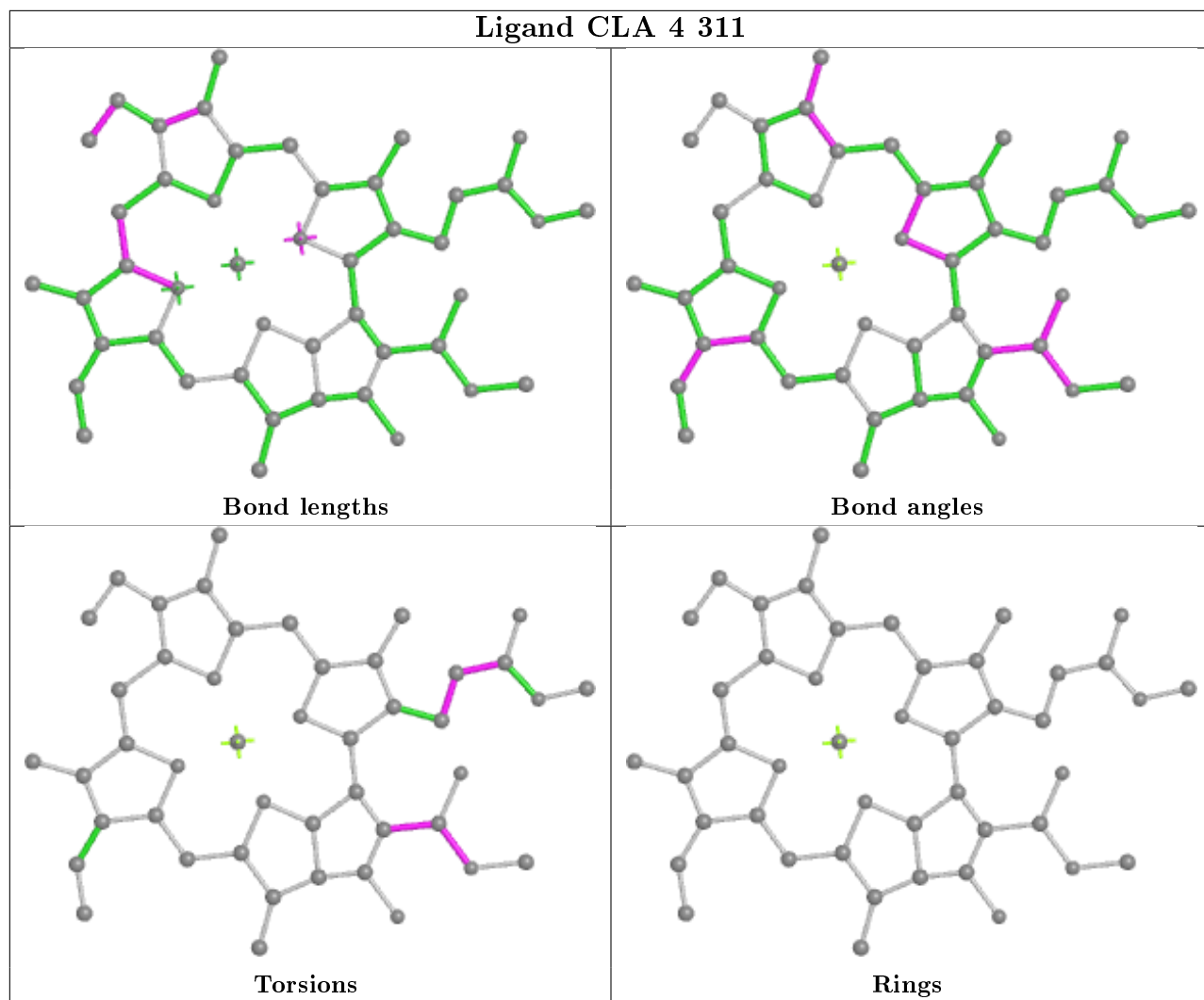


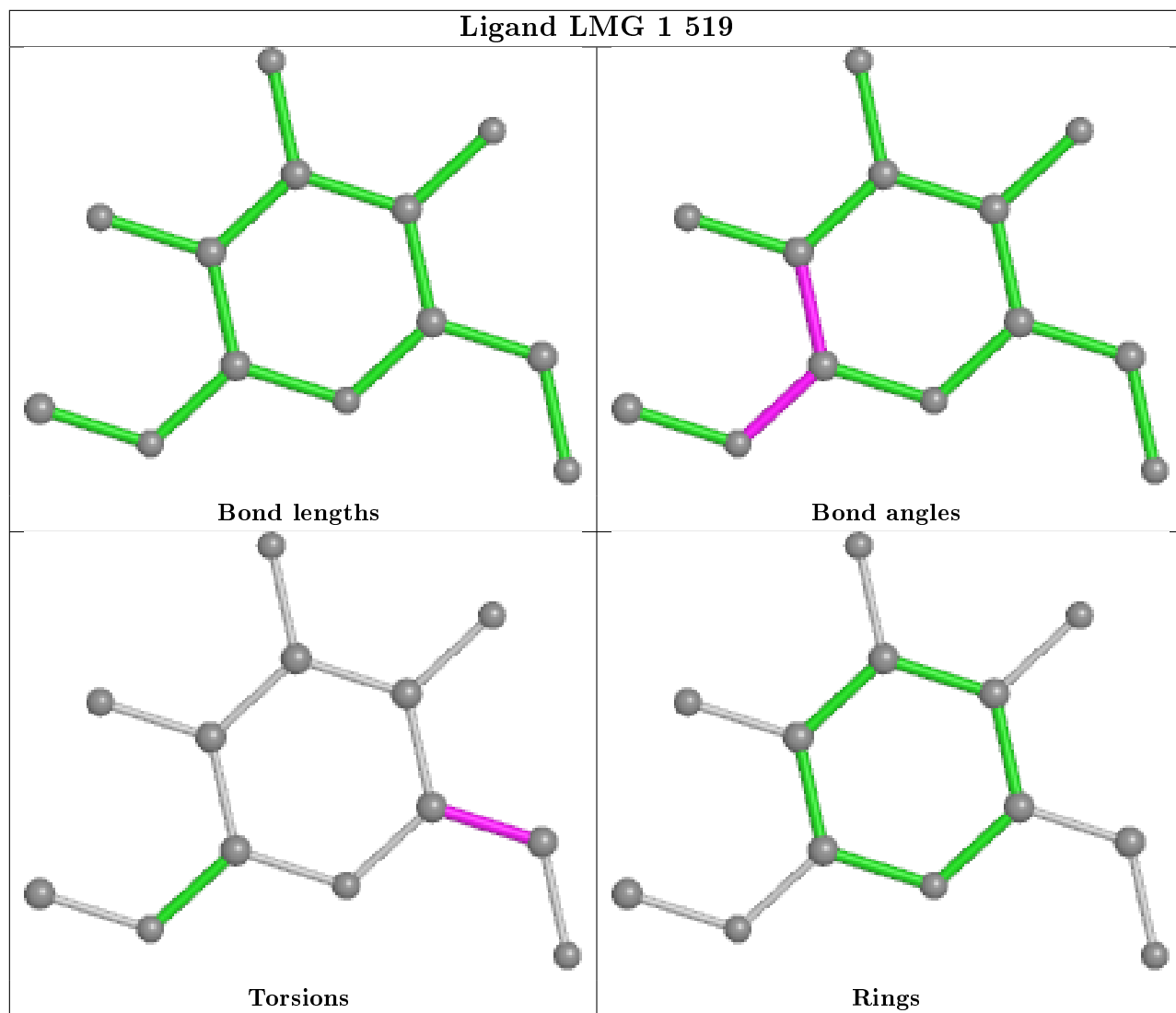


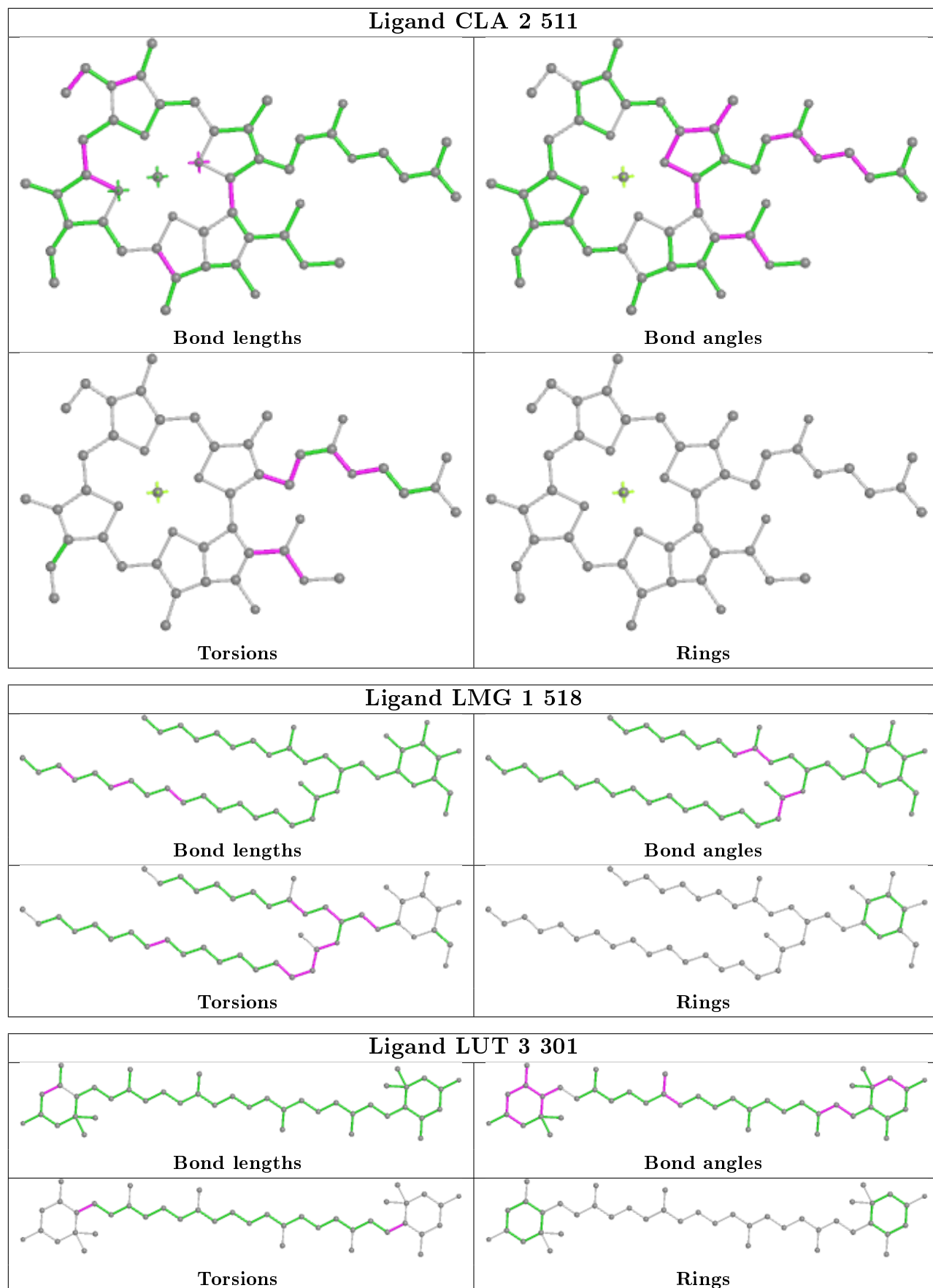


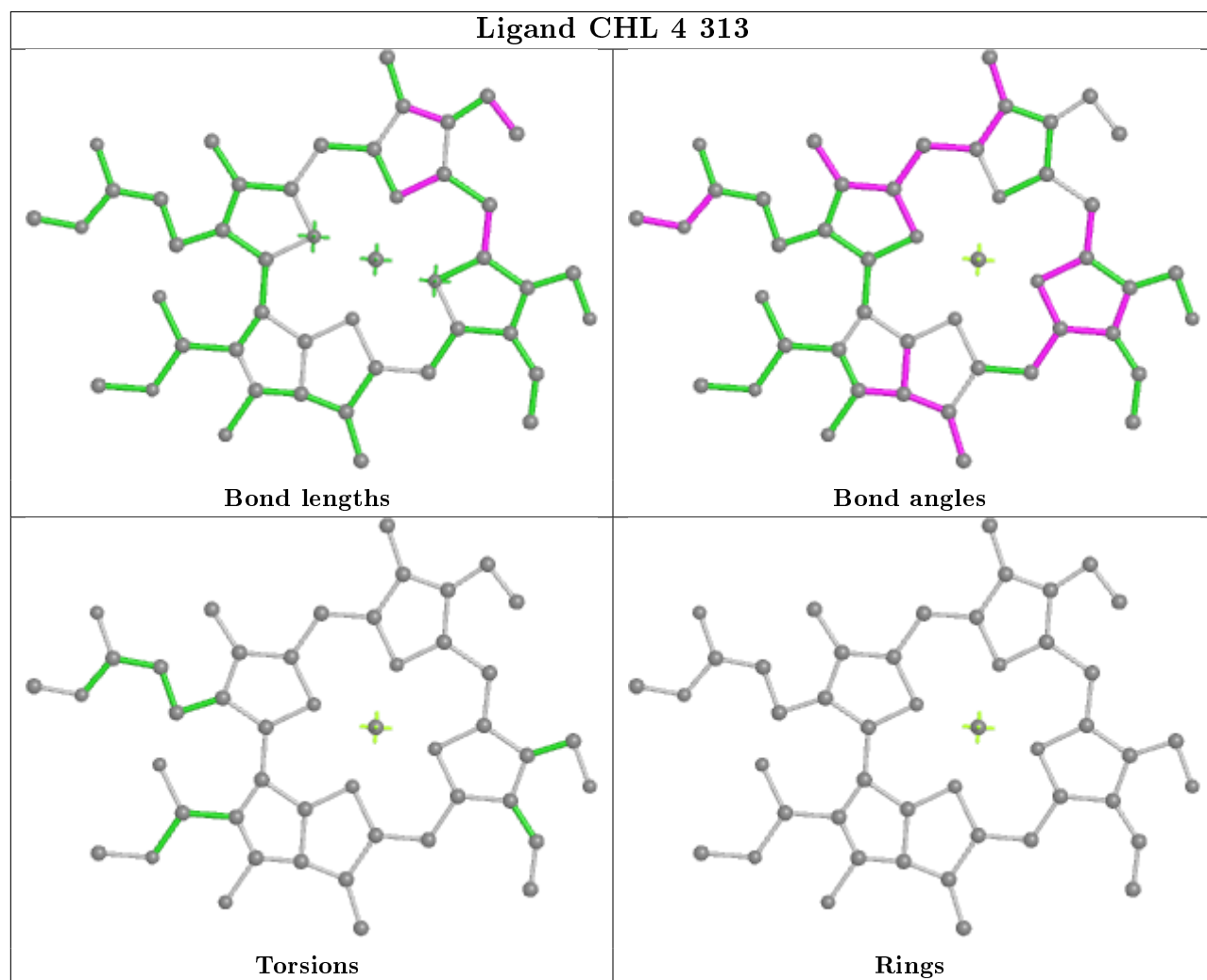
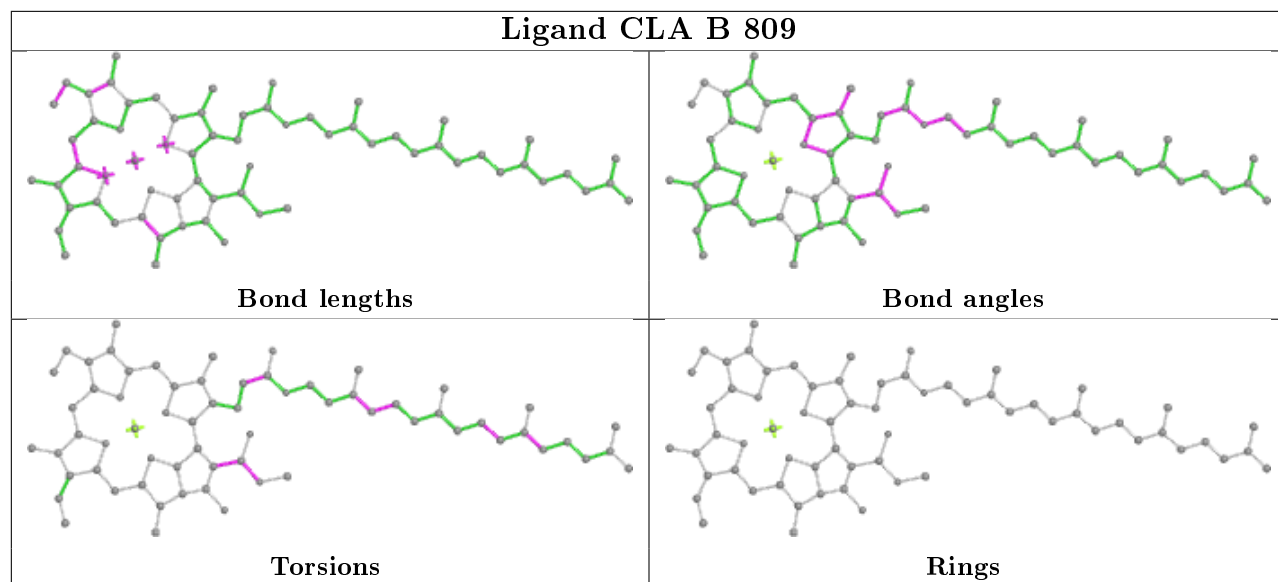


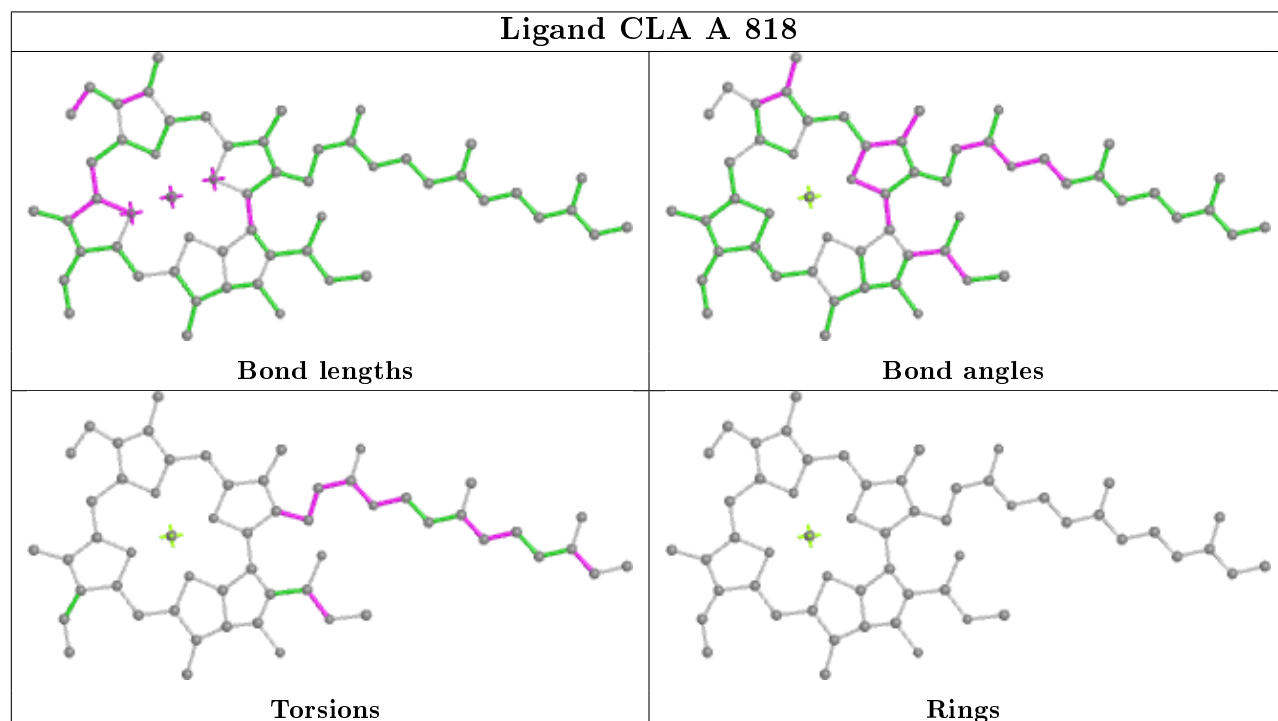
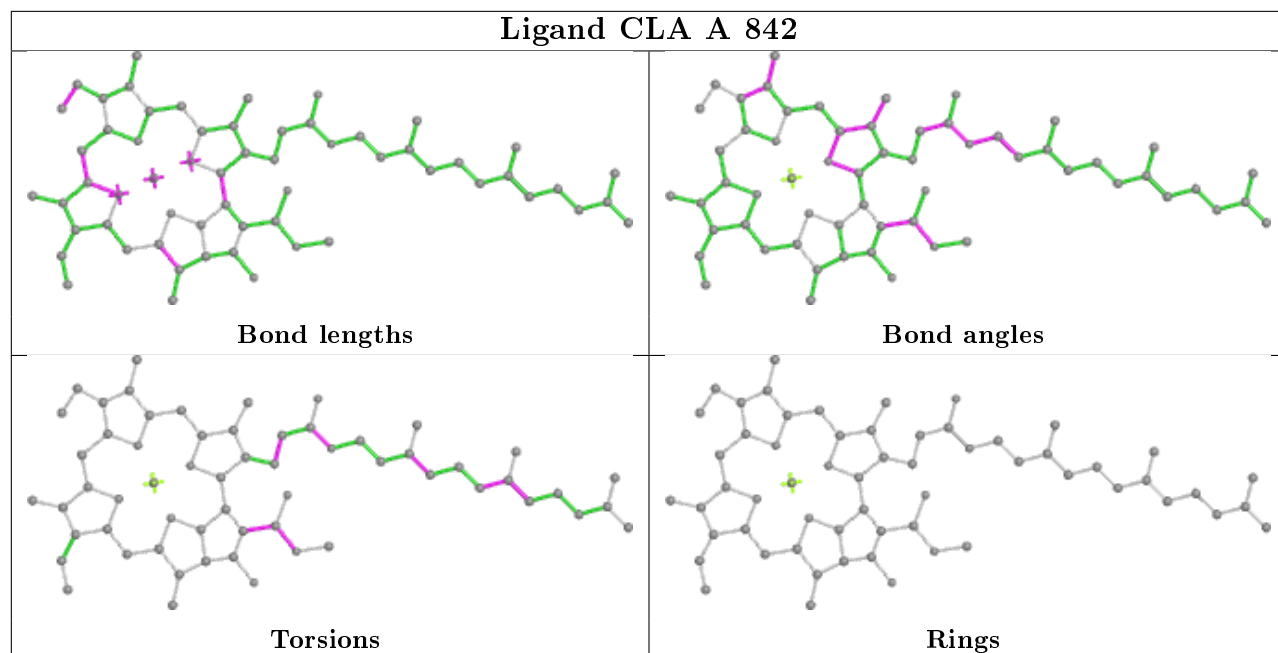


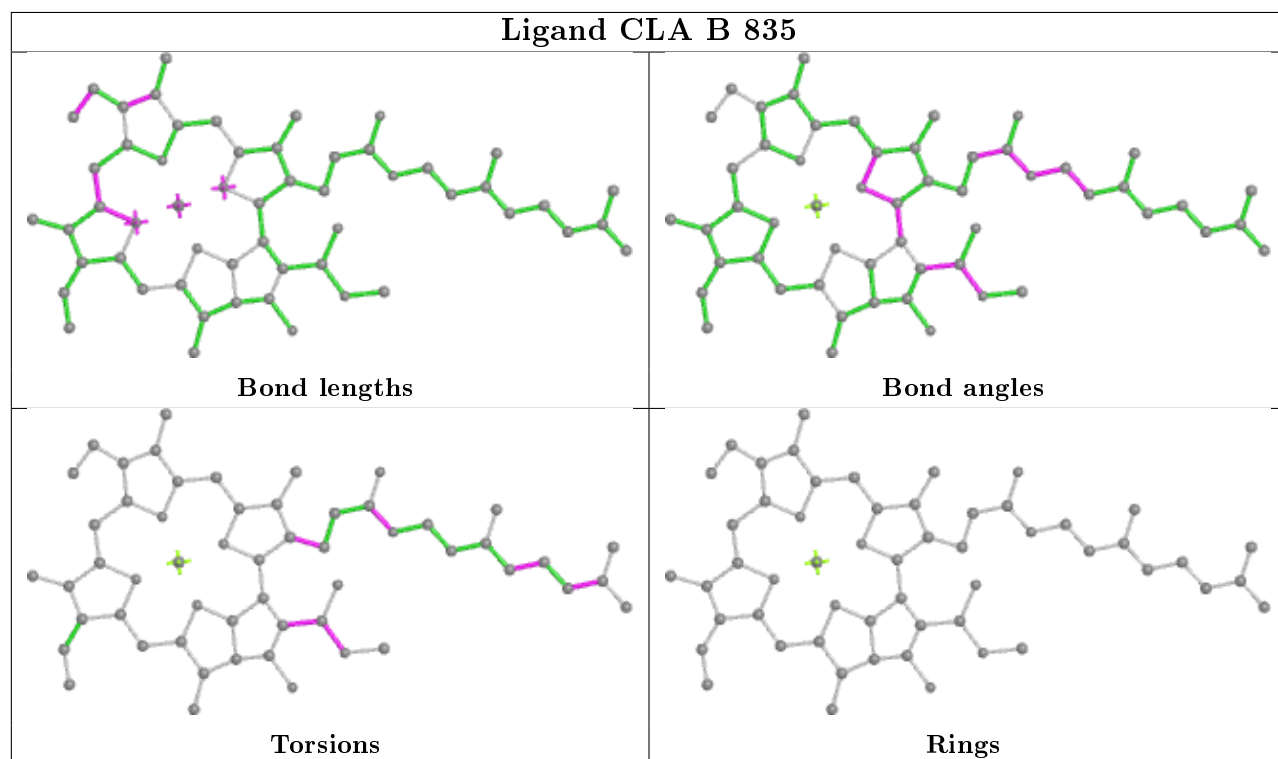
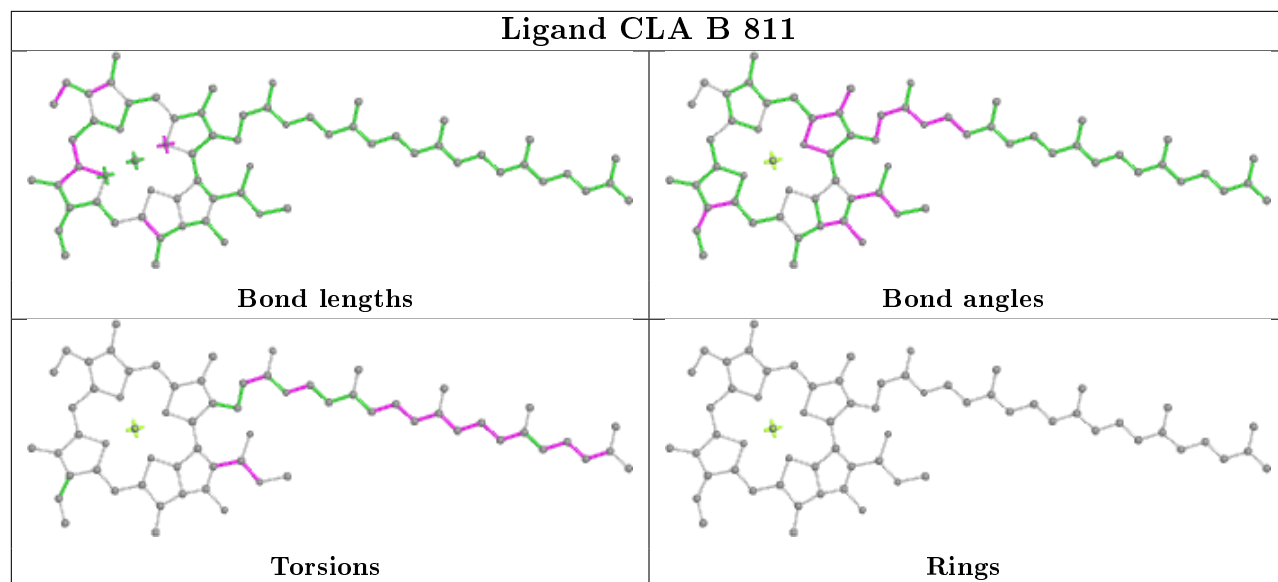


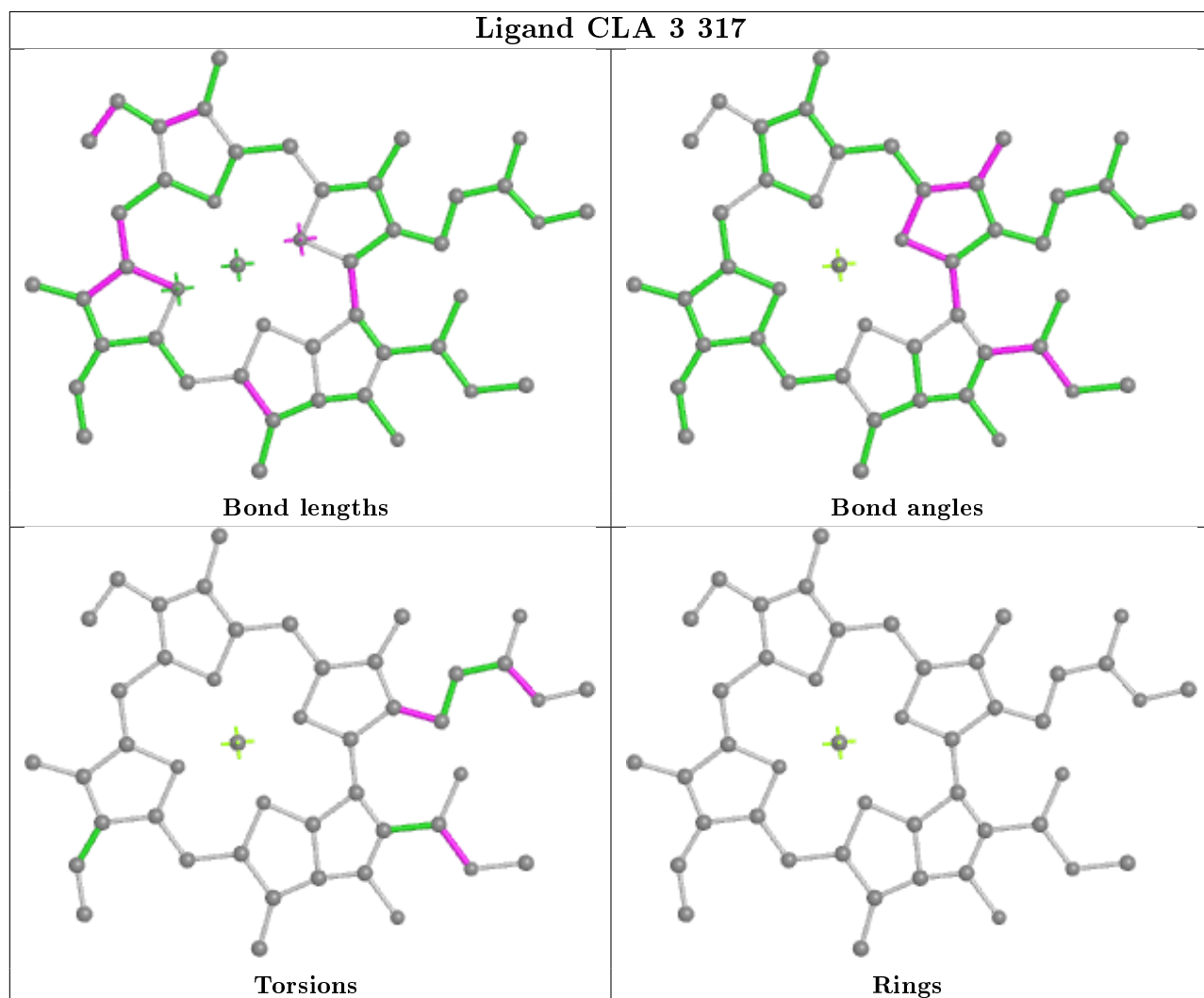
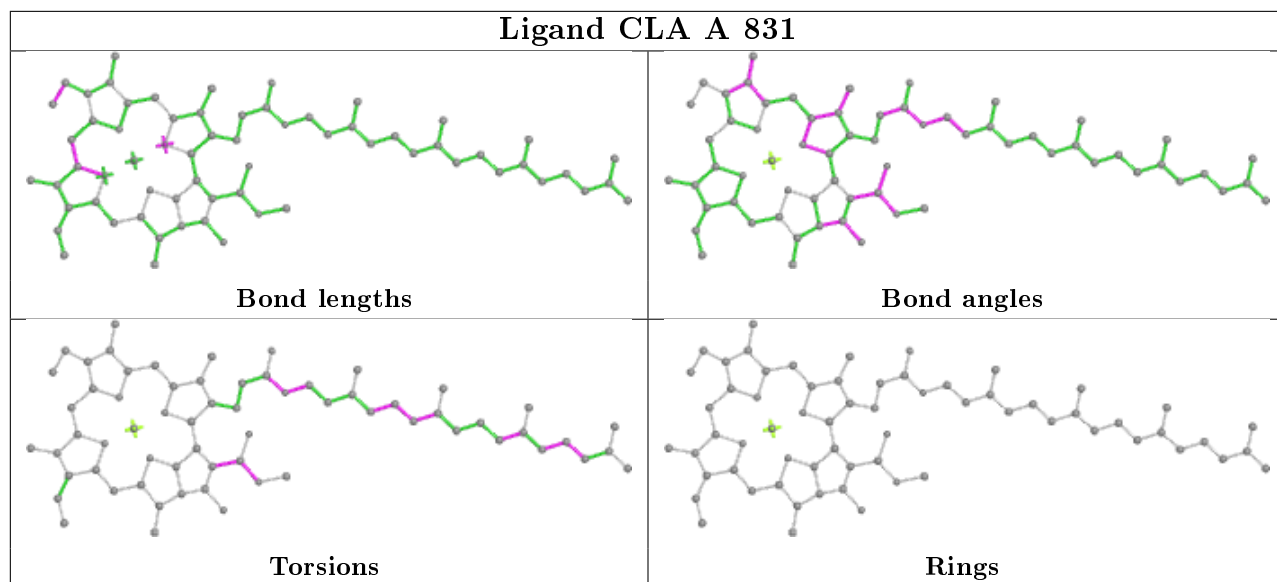


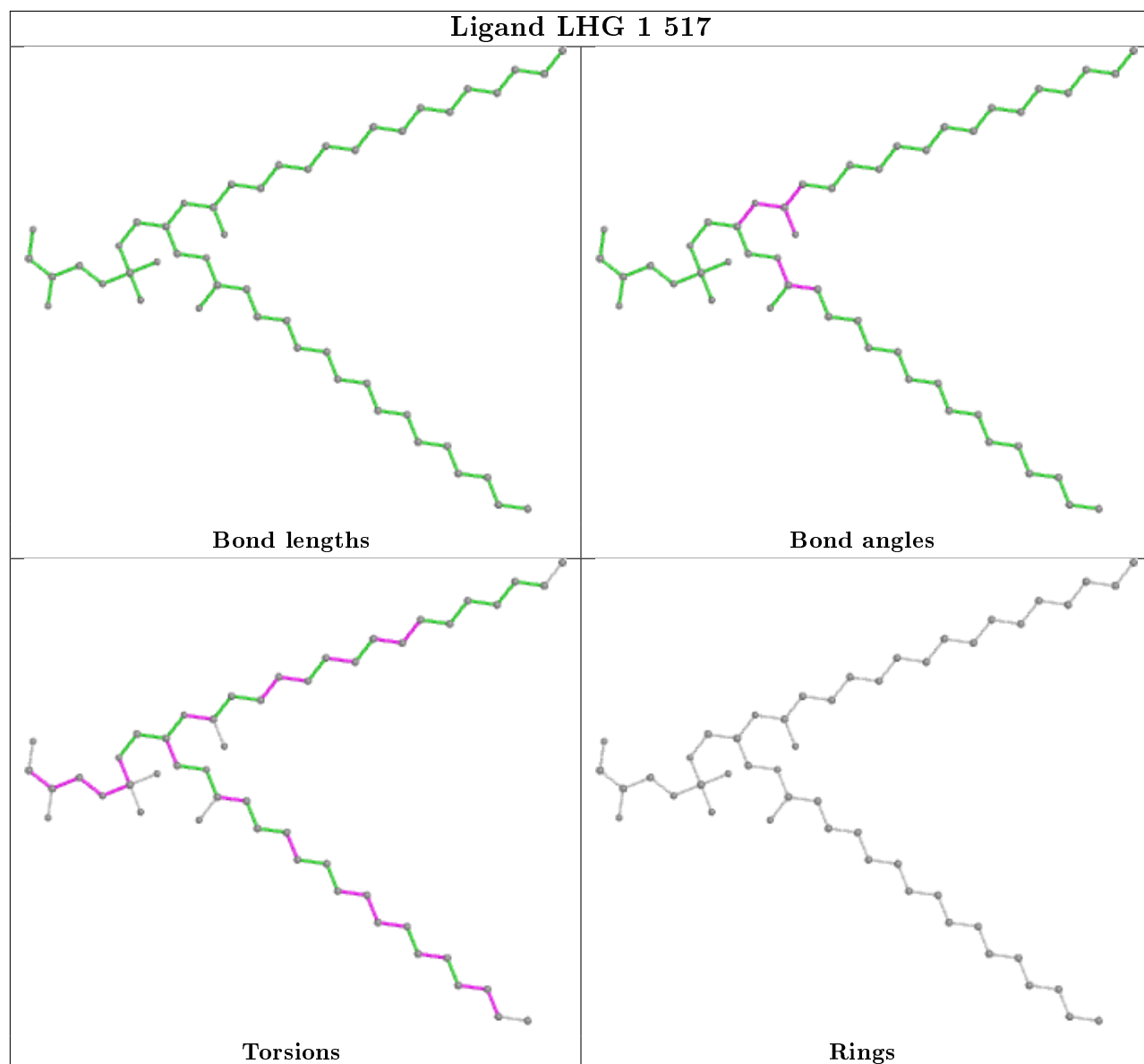
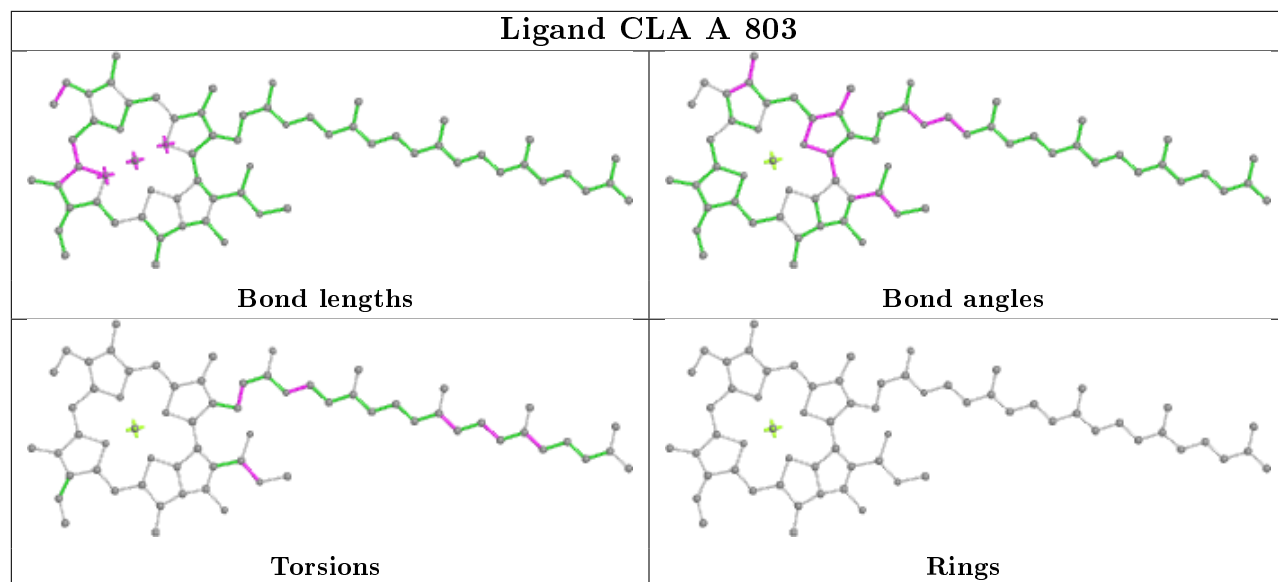


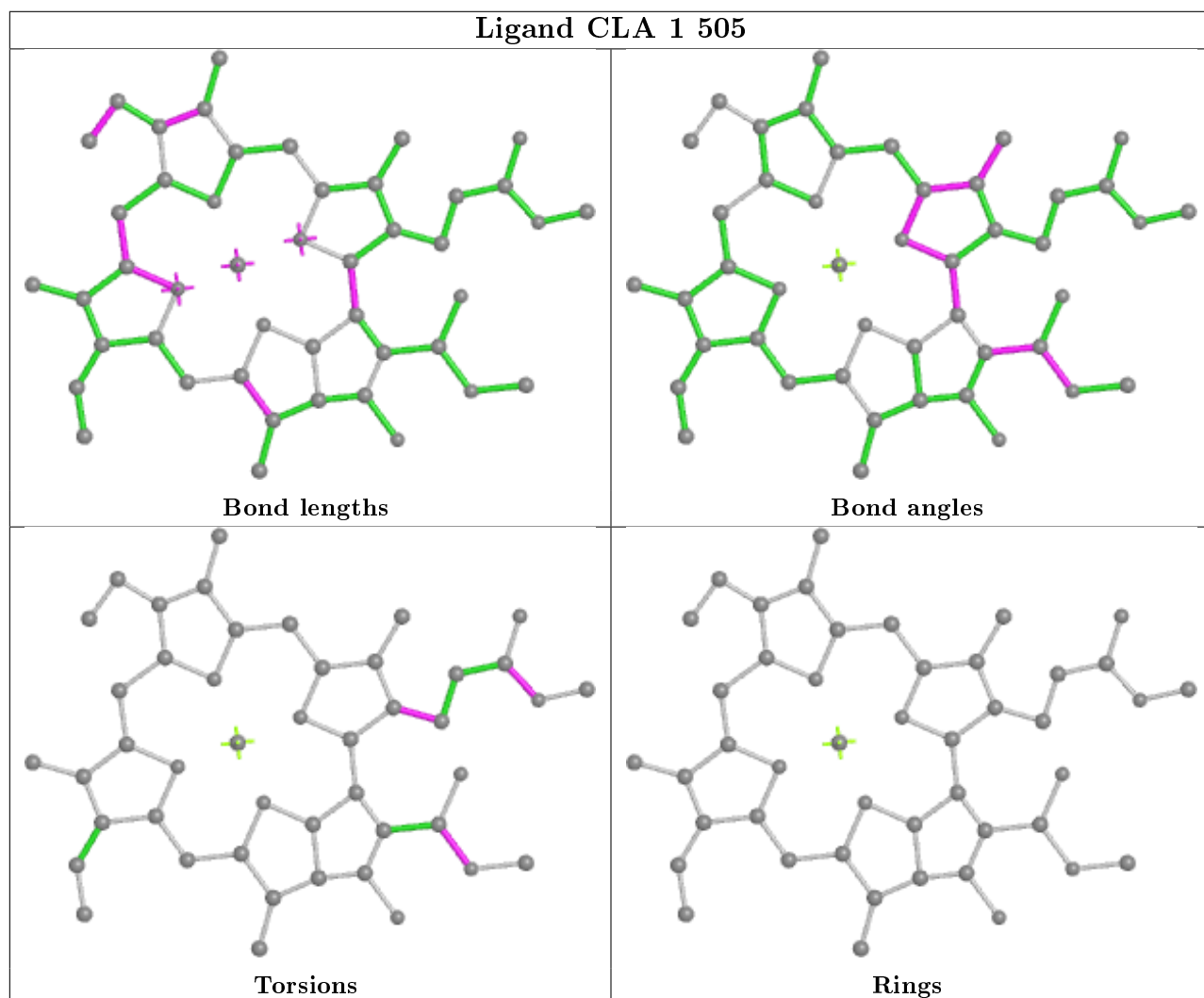
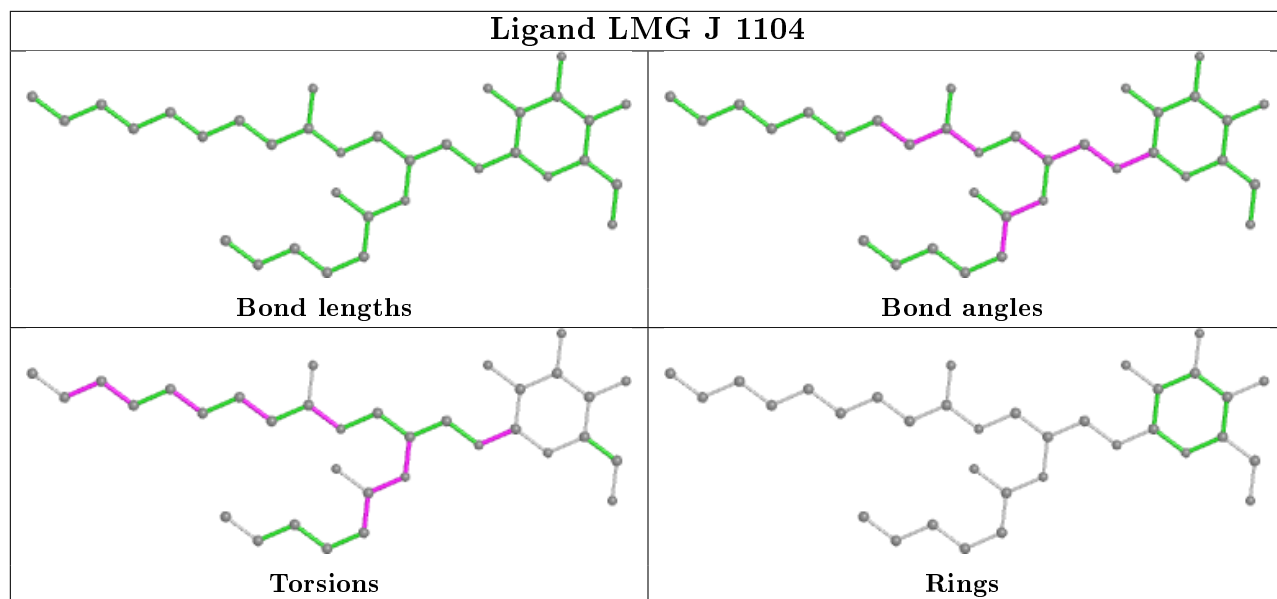


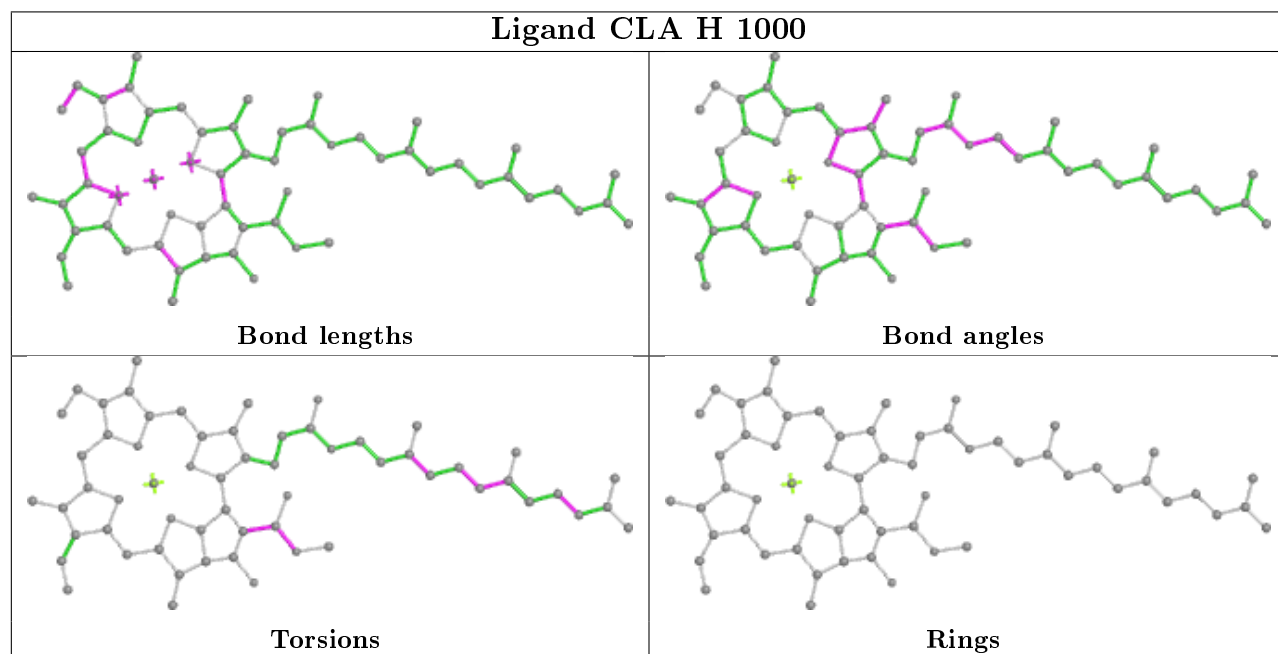
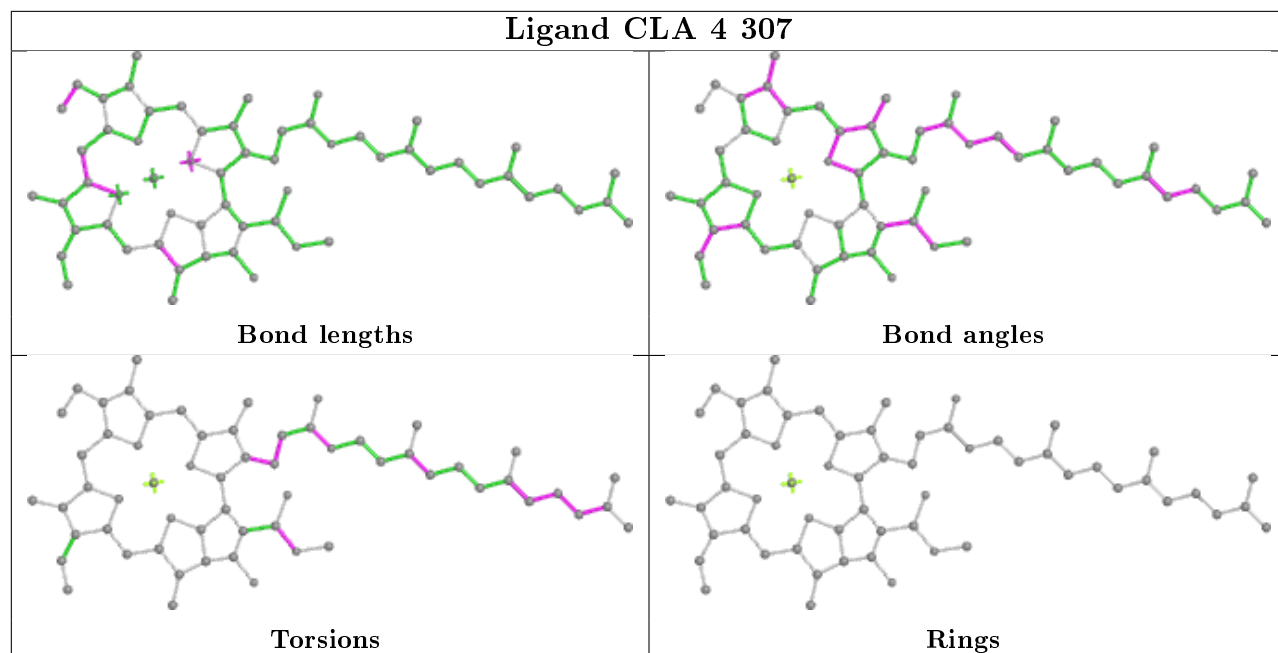


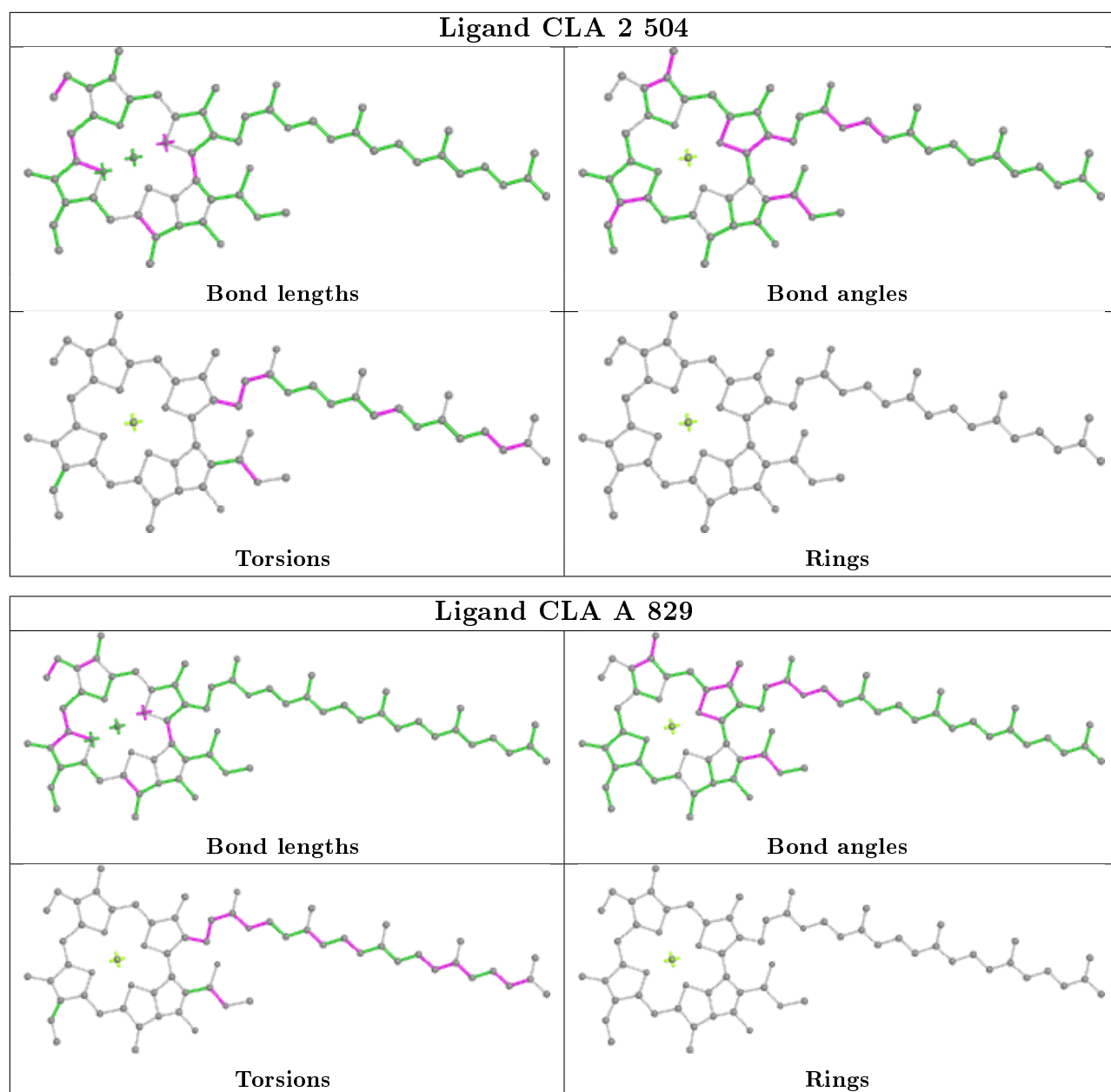












5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å ²)	Q < 0.9
1	1	193/193 (100%)	1.22	57 (29%) 0 0	86, 127, 178, 218	0
2	2	208/269 (77%)	0.26	28 (13%) 3 1	82, 113, 154, 201	0
3	3	221/275 (80%)	0.51	34 (15%) 2 1	101, 148, 202, 253	0
4	4	198/198 (100%)	0.25	23 (11%) 4 3	73, 107, 149, 196	0
5	A	743/758 (98%)	0.31	51 (6%) 16 12	47, 79, 137, 192	0
6	B	733/734 (99%)	0.07	32 (4%) 34 27	49, 76, 116, 160	0
7	C	80/81 (98%)	0.04	2 (2%) 57 51	55, 66, 89, 121	0
8	D	143/143 (100%)	0.14	16 (11%) 5 3	60, 77, 107, 153	0
9	E	66/66 (100%)	0.07	4 (6%) 21 16	51, 81, 122, 147	0
10	F	154/154 (100%)	0.04	9 (5%) 23 17	54, 76, 116, 168	0
11	G	97/97 (100%)	0.16	8 (8%) 11 8	76, 113, 151, 161	0
12	H	88/88 (100%)	0.26	8 (9%) 9 6	80, 112, 146, 178	0
13	I	30/40 (75%)	-0.11	0 100 100	76, 99, 136, 138	0
14	J	42/42 (100%)	-0.46	0 100 100	57, 69, 96, 145	0
15	K	77/80 (96%)	1.92	32 (41%) 0 0	131, 168, 192, 218	0
16	L	157/157 (100%)	0.08	12 (7%) 13 10	77, 105, 151, 209	0
All	All	3230/3375 (95%)	0.29	316 (9%) 7 5	47, 94, 164, 253	0

All (316) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1	103	GLY	12.3
5	A	278	ALA	11.8
1	1	219	ALA	10.8
5	A	279	ASP	9.8
5	A	259	TYR	9.3

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Mol	Chain	Res	Type	RSRZ
1	1	102	LEU	9.3
5	A	263	ALA	9.0
1	1	101	GLY	9.0
5	A	262	PHE	8.4
1	1	218	LEU	8.0
5	A	258	LEU	7.7
5	A	277	TYR	7.4
8	D	211	LEU	7.3
5	A	264	GLU	7.2
5	A	276	LYS	7.2
2	2	125	PHE	7.0
5	A	280	PHE	7.0
12	H	78	TYR	6.9
1	1	172	LYS	6.5
5	A	261	SER	6.4
3	3	121	TYR	6.3
1	1	100	LEU	6.3
2	2	130	GLY	6.3
3	3	127	LEU	6.1
1	1	125	PRO	6.1
15	K	96	ALA	6.0
5	A	516	GLY	5.9
2	2	132	LEU	5.9
16	L	124	GLU	5.9
15	K	91	GLN	5.9
5	A	519	ASP	5.9
15	K	97	GLY	5.9
1	1	155	PRO	5.8
1	1	123	GLY	5.7
5	A	260	PRO	5.7
15	K	95	PRO	5.7
1	1	161	PRO	5.7
3	3	62	LYS	5.7
1	1	60	GLY	5.5
2	2	131	ILE	5.5
15	K	124	ILE	5.4
4	4	53	LYS	5.4
1	1	98	GLU	5.3
15	K	68	PHE	5.3
3	3	87	GLU	5.3
8	D	206	LYS	5.3
12	H	81	LEU	5.2

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Mol	Chain	Res	Type	RSRZ
11	G	153	LYS	5.2
3	3	86	PRO	5.1
2	2	129	LEU	5.0
1	1	99	ALA	5.0
1	1	159	LYS	5.0
3	3	211	LEU	5.0
3	3	124	LYS	5.0
10	F	230	ASP	4.9
3	3	66	SER	4.9
3	3	92	PHE	4.9
2	2	246	PRO	4.9
15	K	85	ALA	4.8
15	K	98	PHE	4.8
3	3	123	GLY	4.8
10	F	231	VAL	4.8
1	1	96	VAL	4.7
16	L	54	TYR	4.7
4	4	120	ILE	4.7
16	L	209	LEU	4.6
1	1	173	ASP	4.6
1	1	177	PHE	4.6
12	H	122	ILE	4.5
2	2	124	GLU	4.5
15	K	79	THR	4.5
2	2	128	LYS	4.5
3	3	213	PHE	4.4
1	1	160	TYR	4.4
15	K	118	VAL	4.4
8	D	208	PRO	4.4
10	F	109	TYR	4.3
15	K	83	LEU	4.3
2	2	120	ILE	4.3
2	2	134	THR	4.3
8	D	196	VAL	4.3
15	K	84	GLU	4.2
2	2	247	ILE	4.2
8	D	69	GLY	4.2
5	A	249	ILE	4.2
4	4	133	GLU	4.1
2	2	133	ASN	4.1
15	K	55	MET	4.1
15	K	125	GLY	4.1

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Mol	Chain	Res	Type	RSRZ
15	K	121	LEU	4.1
9	E	91	VAL	4.0
16	L	206	VAL	4.0
6	B	243	LEU	4.0
1	1	176	LYS	4.0
10	F	110	ALA	4.0
5	A	42	ARG	3.9
3	3	128	ILE	3.9
15	K	87	ASP	3.9
15	K	117	VAL	3.9
3	3	122	LEU	3.9
5	A	282	THR	3.9
1	1	170	TYR	3.8
2	2	251	PHE	3.8
16	L	128	GLN	3.8
6	B	294	ASN	3.8
3	3	274	PHE	3.8
2	2	127	THR	3.7
2	2	185	ASN	3.7
3	3	125	VAL	3.7
1	1	59	PHE	3.7
9	E	98	ASN	3.6
5	A	257	GLN	3.6
3	3	192	LYS	3.6
4	4	67	THR	3.6
8	D	70	PHE	3.6
1	1	162	GLY	3.6
16	L	115	VAL	3.6
4	4	66	LEU	3.6
6	B	232	LEU	3.6
15	K	114	GLY	3.6
5	A	232	PHE	3.5
2	2	137	TRP	3.5
15	K	64	PHE	3.5
11	G	109	LYS	3.5
1	1	174	PRO	3.4
4	4	131	LYS	3.4
8	D	71	THR	3.4
2	2	264	ALA	3.4
6	B	211	ASN	3.4
2	2	121	PHE	3.4
4	4	52	LYS	3.4

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Mol	Chain	Res	Type	RSRZ
1	1	95	LEU	3.4
16	L	125	ILE	3.4
1	1	151	MET	3.3
4	4	64	GLY	3.3
1	1	122	LEU	3.3
15	K	115	VAL	3.3
1	1	97	PRO	3.3
1	1	220	ASP	3.3
5	A	24	ARG	3.3
16	L	210	PRO	3.2
11	G	111	TYR	3.2
7	C	13	GLY	3.2
3	3	133	ALA	3.2
10	F	78	ASP	3.2
5	A	281	LEU	3.2
4	4	135	PHE	3.1
15	K	80	ALA	3.1
1	1	156	GLU	3.1
5	A	251	ASN	3.1
6	B	280	ILE	3.1
1	1	185	VAL	3.1
6	B	157	LEU	3.1
1	1	157	LYS	3.1
5	A	520	LEU	3.1
6	B	718	ILE	3.1
2	2	248	ASP	3.1
1	1	58	ASP	3.1
15	K	120	GLY	3.0
3	3	130	GLN	3.0
1	1	153	LYS	3.0
12	H	115	SER	3.0
5	A	21	LEU	3.0
4	4	121	ILE	3.0
1	1	152	GLU	3.0
3	3	260	VAL	3.0
5	A	33	GLN	3.0
5	A	248	PHE	3.0
5	A	274	TRP	3.0
5	A	253	ASP	3.0
3	3	134	LEU	3.0
1	1	215	ALA	3.0
4	4	116	THR	2.9

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Mol	Chain	Res	Type	RSRZ
4	4	68	GLY	2.9
1	1	47	ARG	2.9
3	3	212	GLY	2.9
3	3	216	ASP	2.9
11	G	123	PHE	2.9
2	2	235	ALA	2.9
1	1	54	SER	2.9
7	C	35	LYS	2.9
3	3	55	ARG	2.9
5	A	284	ARG	2.9
8	D	165	GLN	2.9
4	4	123	VAL	2.9
2	2	250	LEU	2.9
4	4	122	ASN	2.9
6	B	214	SER	2.9
15	K	119	LEU	2.9
12	H	79	ASN	2.9
6	B	161	TRP	2.8
4	4	65	TYR	2.8
12	H	77	PRO	2.8
5	A	241	GLU	2.8
6	B	490	ARG	2.8
1	1	171	SER	2.8
5	A	517	GLY	2.8
1	1	50	TYR	2.8
1	1	57	GLY	2.8
8	D	210	ASP	2.8
11	G	77	PHE	2.8
16	L	111	VAL	2.8
16	L	208	ASP	2.8
6	B	580	VAL	2.8
5	A	497	ALA	2.7
10	F	111	PRO	2.7
12	H	113	TYR	2.7
2	2	244	THR	2.7
1	1	178	HIS	2.7
1	1	158	LYS	2.7
3	3	253	TYR	2.7
3	3	261	ALA	2.7
15	K	123	ASN	2.7
1	1	222	TRP	2.7
3	3	218	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
3	3	65	LEU	2.6
10	F	108	LEU	2.6
1	1	221	PRO	2.6
4	4	194	PHE	2.6
8	D	207	GLN	2.6
5	A	518	GLY	2.6
5	A	255	LEU	2.6
6	B	244	PHE	2.6
1	1	49	SER	2.6
3	3	214	GLY	2.6
9	E	129	LYS	2.6
5	A	27	ILE	2.6
6	B	295	PHE	2.6
6	B	491	SER	2.6
6	B	579	ALA	2.6
15	K	116	GLY	2.5
1	1	56	PRO	2.5
6	B	147	PHE	2.5
4	4	199	GLU	2.5
5	A	700	TRP	2.5
6	B	92	TRP	2.5
15	K	86	ARG	2.5
16	L	204	LEU	2.5
6	B	245	SER	2.5
6	B	279	ALA	2.5
15	K	106	CYS	2.5
1	1	175	LYS	2.5
11	G	110	GLU	2.5
6	B	378	ILE	2.5
2	2	126	LEU	2.5
6	B	160	LYS	2.5
8	D	156	TYR	2.5
4	4	119	GLY	2.4
1	1	53	GLY	2.4
2	2	187	LYS	2.4
5	A	139	GLY	2.4
3	3	272	LEU	2.4
5	A	254	LEU	2.4
6	B	246	THR	2.4
6	B	722	ALA	2.4
15	K	66	GLY	2.4
2	2	184	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
1	1	154	ASP	2.4
5	A	36	LYS	2.3
4	4	227	LYS	2.3
10	F	107	LYS	2.3
12	H	139	LEU	2.3
15	K	67	ARG	2.3
3	3	254	GLN	2.3
6	B	154	TRP	2.3
1	1	51	LEU	2.3
4	4	134	TYR	2.3
4	4	198	LEU	2.3
5	A	212	GLY	2.3
5	A	265	GLY	2.3
5	A	214	GLY	2.3
1	1	81	LEU	2.3
8	D	197	SER	2.3
1	1	124	ASN	2.2
6	B	215	VAL	2.2
2	2	265	ALA	2.2
3	3	219	SER	2.2
1	1	92	PRO	2.2
1	1	121	TYR	2.2
3	3	207	PHE	2.2
8	D	199	ILE	2.2
15	K	49	SER	2.2
5	A	25	ASP	2.2
15	K	99	THR	2.2
6	B	581	PHE	2.2
8	D	157	ARG	2.2
6	B	70	TRP	2.2
6	B	317	ARG	2.2
8	D	194	LYS	2.1
5	A	724	ALA	2.1
5	A	275	SER	2.1
11	G	141	TYR	2.1
6	B	604	GLY	2.1
6	B	349	ALA	2.1
6	B	212	PHE	2.1
11	G	115	LEU	2.1
15	K	105	ALA	2.1
5	A	694	PHE	2.1
4	4	118	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
5	A	28	LYS	2.1
9	E	106	ARG	2.1
5	A	16	PRO	2.1
10	F	112	ASP	2.1
2	2	199	LEU	2.1
5	A	695	SER	2.1
6	B	482	ASN	2.0
3	3	132	THR	2.0
5	A	138	GLY	2.0
8	D	209	TYR	2.0
16	L	108	PHE	2.0
1	1	214	LEU	2.0
3	3	220	LEU	2.0
4	4	150	HIS	2.0
5	A	561	LEU	2.0
1	1	223	HIS	2.0
2	2	135	PRO	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
26	DGD	B	801	41/66	0.35	0.24	170,200,207,208	0
22	LMG	B	845	33/55	0.48	0.26	107,163,172,176	0
22	LMG	2	520	13/55	0.55	0.25	101,133,145,149	0
24	LMT	J	1107	25/35	0.58	0.22	174,178,183,184	0
21	LHG	1	520	42/49	0.61	0.38	86,136,161,165	0
22	LMG	A	847	50/55	0.62	0.45	133,155,181,184	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
22	LMG	G	210	25/55	0.62	0.28	145,173,190,195	0
24	LMT	4	320	35/35	0.62	0.54	98,133,152,158	0
26	DGD	G	207	47/66	0.63	0.38	162,204,212,214	0
21	LHG	B	843	49/49	0.65	0.43	104,125,175,186	0
18	BCR	K	1005	40/40	0.66	0.41	145,157,181,184	0
24	LMT	2	523	35/35	0.66	0.27	182,208,216,216	0
19	CLA	K	1001	45/65	0.67	0.31	148,174,184,185	0
22	LMG	1	518	46/55	0.67	0.32	81,129,140,144	0
24	LMT	3	318	31/35	0.70	0.33	127,164,183,187	0
22	LMG	F	305	36/55	0.70	0.32	124,141,152,159	0
19	CLA	K	1004	27/65	0.70	0.27	166,177,185,190	0
22	LMG	2	522	13/55	0.73	0.18	166,181,188,190	0
22	LMG	G	206	50/55	0.73	0.43	123,149,163,164	0
22	LMG	4	321	13/55	0.73	0.27	159,168,171,172	0
18	BCR	G	205	40/40	0.74	0.29	93,120,154,157	0
22	LMG	B	844	35/55	0.74	0.21	59,114,124,125	0
24	LMT	G	209	31/35	0.74	0.37	136,187,203,205	0
24	LMT	A	846	35/35	0.74	0.28	90,128,143,148	0
19	CLA	K	1002	60/65	0.75	0.48	119,151,162,167	0
22	LMG	2	521	13/55	0.75	0.23	120,140,149,150	0
17	LUT	3	302	42/42	0.76	0.29	120,141,154,161	0
22	LMG	2	519	36/55	0.76	0.20	108,148,158,160	0
24	LMT	B	847	32/35	0.76	0.28	103,134,152,153	0
18	BCR	B	850	40/40	0.78	0.37	69,89,130,131	0
18	BCR	3	304	40/40	0.78	0.89	144,156,180,182	0
18	BCR	2	503	40/40	0.78	0.63	134,153,166,170	0
18	BCR	L	307	40/40	0.78	0.51	126,138,165,167	0
22	LMG	2	525	13/55	0.79	0.16	100,129,143,143	0
22	LMG	2	524	13/55	0.79	0.23	143,153,159,162	0
18	BCR	B	851	40/40	0.80	0.29	84,110,134,137	0
19	CLA	3	311	41/65	0.80	0.25	184,202,209,211	0
19	CLA	K	1003	27/65	0.81	0.27	189,198,202,205	0
17	LUT	3	301	42/42	0.81	0.58	146,159,165,171	0
19	CLA	L	305	50/65	0.82	0.31	88,104,132,135	0
22	LMG	1	519	13/55	0.83	0.14	131,138,144,147	0
19	CLA	3	312	48/65	0.83	0.39	176,192,204,209	0
22	LMG	J	1104	34/55	0.83	0.24	97,129,137,141	0
24	LMT	G	208	35/35	0.83	0.26	101,158,170,173	0
18	BCR	3	303	40/40	0.84	0.26	115,133,145,150	0
19	CLA	3	307	55/65	0.84	0.18	154,177,191,198	0
19	CLA	1	510	46/65	0.85	0.17	105,140,169,174	0
22	LMG	4	322	45/55	0.85	0.25	87,126,133,138	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
19	CLA	B	816	55/65	0.85	0.17	92,110,131,141	0
24	LMT	B	846	35/35	0.85	0.59	153,194,203,209	0
19	CLA	J	1105	50/65	0.86	0.16	113,150,159,164	0
19	CLA	4	309	50/65	0.86	0.30	109,120,137,143	0
20	CHL	4	316	61/66	0.87	0.21	104,118,136,142	0
20	CHL	4	317	43/66	0.87	0.17	116,136,152,161	0
19	CLA	1	511	46/65	0.87	0.26	99,129,147,160	0
18	BCR	A	851	40/40	0.87	0.28	63,90,106,108	0
18	BCR	A	850	40/40	0.88	0.24	61,78,127,129	0
19	CLA	1	513	65/65	0.88	0.24	129,151,169,170	0
23	XAT	2	502	44/44	0.88	0.27	82,99,114,118	0
21	LHG	1	517	49/49	0.88	0.18	96,108,141,145	0
26	DGD	B	854	61/66	0.88	0.23	53,79,99,120	0
19	CLA	H	1000	60/65	0.88	0.32	124,150,167,178	0
19	CLA	3	305	55/65	0.88	0.34	154,168,178,185	0
19	CLA	A	817	65/65	0.89	0.22	104,135,150,154	0
18	BCR	A	856	40/40	0.89	0.26	137,144,158,161	0
19	CLA	1	508	65/65	0.89	0.24	89,115,123,137	0
19	CLA	1	515	45/65	0.89	0.19	149,166,184,188	0
19	CLA	L	303	50/65	0.89	0.28	105,127,146,157	0
23	XAT	4	303	44/44	0.89	0.20	72,92,116,128	0
19	CLA	1	507	65/65	0.89	0.21	77,101,114,120	0
19	CLA	3	310	50/65	0.89	0.24	135,159,166,168	0
19	CLA	3	306	52/65	0.90	0.32	152,181,190,195	0
19	CLA	G	204	65/65	0.90	0.23	91,119,134,140	0
24	LMT	B	855	31/35	0.90	0.17	117,141,151,154	0
25	CA	3	319	1/1	0.90	0.07	118,118,118,118	0
22	LMG	2	518	25/55	0.90	0.19	110,121,138,142	0
18	BCR	L	306	40/40	0.90	0.29	99,119,127,132	0
26	DGD	4	319	51/66	0.90	0.19	97,112,143,149	0
19	CLA	A	813	65/65	0.90	0.23	67,89,108,109	0
19	CLA	1	509	50/65	0.90	0.22	130,145,153,162	0
18	BCR	B	849	40/40	0.90	0.28	90,98,109,114	0
18	BCR	A	849	40/40	0.91	0.31	69,91,119,124	0
30	ZEX	F	301	42/42	0.91	0.27	84,105,116,122	0
19	CLA	A	835	55/65	0.91	0.27	107,124,142,152	0
19	CLA	A	820	50/65	0.91	0.23	88,110,136,137	0
18	BCR	4	301	40/40	0.91	0.23	105,124,131,136	0
19	CLA	1	516	60/65	0.91	0.17	79,105,143,146	0
19	CLA	A	812	55/65	0.91	0.24	80,104,117,123	0
20	CHL	1	514	61/66	0.91	0.21	114,131,139,162	0
19	CLA	3	308	65/65	0.91	0.18	118,129,139,143	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
19	CLA	A	814	65/65	0.91	0.21	89,113,129,135	0
19	CLA	B	817	60/65	0.91	0.22	87,97,110,129	0
19	CLA	A	842	60/65	0.91	0.24	94,119,157,159	0
19	CLA	A	818	56/65	0.91	0.23	79,107,125,133	0
19	CLA	A	831	65/65	0.91	0.21	66,93,128,132	0
19	CLA	3	309	55/65	0.91	0.23	97,123,131,135	0
17	LUT	1	502	42/42	0.91	0.27	79,114,132,135	0
17	LUT	J	1109	42/42	0.91	0.16	62,88,104,109	0
26	DGD	J	1106	58/66	0.92	0.20	52,80,117,120	0
20	CHL	1	521	56/66	0.92	0.19	100,112,123,126	0
18	BCR	B	856	40/40	0.92	0.21	42,57,69,76	0
19	CLA	A	815	45/65	0.92	0.20	108,124,153,163	0
19	CLA	4	310	60/65	0.92	0.23	104,115,132,138	0
28	SF4	C	102	8/8	0.92	0.22	67,106,137,151	0
20	CHL	2	526	66/66	0.92	0.24	97,120,138,144	0
22	LMG	J	1103	30/55	0.92	0.21	72,82,102,102	0
20	CHL	2	516	56/66	0.92	0.17	102,129,157,164	0
20	CHL	1	512	47/66	0.92	0.23	108,140,147,152	0
19	CLA	B	811	65/65	0.92	0.19	71,95,111,114	0
18	BCR	B	852	40/40	0.92	0.23	50,66,83,89	0
17	LUT	2	501	42/42	0.92	0.31	108,118,128,134	0
17	LUT	1	501	42/42	0.92	0.30	105,125,144,146	0
19	CLA	B	814	65/65	0.92	0.20	71,80,87,92	0
19	CLA	4	318	65/65	0.93	0.29	87,106,128,131	0
18	BCR	A	848	40/40	0.93	0.27	75,105,142,143	0
19	CLA	1	506	55/65	0.93	0.16	89,115,132,141	0
19	CLA	A	804	65/65	0.93	0.19	49,65,110,119	0
19	CLA	B	833	60/65	0.93	0.18	59,75,106,107	0
19	CLA	B	827	65/65	0.93	0.34	54,77,98,103	0
22	LMG	F	304	47/55	0.93	0.17	89,102,119,134	0
17	LUT	4	302	42/42	0.93	0.20	90,106,118,128	0
19	CLA	G	201	65/65	0.93	0.20	75,90,116,123	0
19	CLA	A	838	65/65	0.93	0.23	63,80,126,130	0
19	CLA	A	816	46/65	0.93	0.17	109,126,142,148	0
19	CLA	B	805	65/65	0.93	0.21	80,93,126,135	0
19	CLA	B	812	60/65	0.93	0.22	79,100,117,126	0
19	CLA	B	840	65/65	0.93	0.16	52,80,91,102	0
19	CLA	2	510	60/65	0.93	0.20	108,128,143,151	0
19	CLA	B	818	65/65	0.93	0.30	66,82,104,109	0
20	CHL	4	313	47/66	0.93	0.17	80,110,137,147	0
18	BCR	1	503	19/40	0.93	0.17	121,134,143,146	0
19	CLA	B	815	65/65	0.93	0.20	84,97,119,123	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
28	SF4	A	843	8/8	0.93	0.28	45,78,104,173	0
18	BCR	I	102	40/40	0.93	0.23	70,86,109,113	0
19	CLA	4	304	60/65	0.93	0.20	99,113,137,139	0
19	CLA	A	825	65/65	0.93	0.20	64,79,85,89	0
19	CLA	A	811	65/65	0.93	0.18	56,73,87,108	0
19	CLA	4	306	65/65	0.94	0.19	74,105,121,130	0
19	CLA	B	830	65/65	0.94	0.18	50,63,97,110	0
19	CLA	3	315	50/65	0.94	0.20	109,125,133,147	0
19	CLA	A	827	65/65	0.94	0.19	69,87,107,114	0
19	CLA	B	804	65/65	0.94	0.24	48,62,82,85	0
18	BCR	L	302	40/40	0.94	0.19	77,84,97,97	0
19	CLA	A	821	65/65	0.94	0.22	60,86,95,101	0
19	CLA	A	805	65/65	0.94	0.20	54,71,89,93	0
19	CLA	A	834	65/65	0.94	0.17	79,98,117,132	0
19	CLA	G	202	55/65	0.94	0.18	109,131,152,153	0
19	CLA	2	509	50/65	0.94	0.26	99,120,140,143	0
19	CLA	B	831	60/65	0.94	0.16	48,59,97,100	0
19	CLA	1	504	65/65	0.94	0.22	118,136,149,153	0
19	CLA	B	810	65/65	0.94	0.17	70,84,102,108	0
19	CLA	4	305	50/65	0.94	0.19	107,126,138,142	0
18	BCR	B	853	40/40	0.94	0.20	50,64,74,78	0
19	CLA	A	826	55/65	0.94	0.21	59,71,96,109	0
19	CLA	B	808	65/65	0.94	0.18	73,91,117,121	0
19	CLA	2	511	50/65	0.94	0.19	112,133,142,146	0
19	CLA	A	823	60/65	0.94	0.17	106,123,152,160	0
21	LHG	2	517	35/49	0.94	0.18	116,124,130,132	0
20	CHL	2	515	46/66	0.94	0.18	113,121,131,142	0
18	BCR	J	1108	40/40	0.94	0.18	52,64,79,82	0
18	BCR	B	802	40/40	0.94	0.27	57,71,85,94	0
21	LHG	A	845	40/49	0.94	0.16	78,102,116,124	0
20	CHL	2	512	47/66	0.94	0.14	101,123,140,175	0
19	CLA	F	303	65/65	0.94	0.16	63,81,109,121	0
19	CLA	2	506	65/65	0.94	0.27	88,121,139,150	0
19	CLA	3	313	60/65	0.94	0.16	108,137,146,156	0
25	CA	B	848	1/1	0.94	0.06	83,83,83,83	0
19	CLA	B	839	65/65	0.95	0.25	54,70,104,119	0
19	CLA	A	822	60/65	0.95	0.19	94,114,155,161	0
19	CLA	A	833	65/65	0.95	0.18	67,85,101,113	0
19	CLA	G	203	46/65	0.95	0.25	125,139,150,154	0
19	CLA	4	308	60/65	0.95	0.22	64,85,96,102	0
19	CLA	A	830	65/65	0.95	0.21	46,58,72,78	0
19	CLA	A	837	65/65	0.95	0.17	69,88,110,121	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
19	CLA	B	825	65/65	0.95	0.21	48,64,93,98	0
19	CLA	L	304	60/65	0.95	0.16	79,93,113,122	0
18	BCR	I	101	40/40	0.95	0.24	72,86,105,107	0
19	CLA	2	514	55/65	0.95	0.21	81,94,116,121	0
19	CLA	4	312	50/65	0.95	0.17	79,91,116,121	0
19	CLA	4	311	46/65	0.95	0.20	109,121,132,139	0
21	LHG	B	842	21/49	0.95	0.12	69,92,102,116	0
19	CLA	A	836	51/65	0.95	0.25	66,82,95,110	0
18	BCR	F	306	40/40	0.95	0.16	48,64,72,77	0
19	CLA	B	838	65/65	0.95	0.22	58,75,94,115	0
20	CHL	4	314	51/66	0.95	0.23	89,114,129,133	0
19	CLA	B	824	65/65	0.95	0.22	59,69,90,93	0
20	CHL	3	314	47/66	0.95	0.18	134,140,156,163	0
18	BCR	A	852	40/40	0.95	0.25	45,55,71,75	0
19	CLA	A	828	65/65	0.95	0.24	53,67,78,88	0
19	CLA	B	828	65/65	0.95	0.26	60,71,91,103	0
19	CLA	A	854	65/65	0.95	0.22	44,57,76,89	0
19	CLA	3	317	46/65	0.95	0.18	91,105,132,138	0
19	CLA	B	834	55/65	0.95	0.20	66,88,118,124	0
19	CLA	1	505	46/65	0.95	0.17	111,135,149,157	0
19	CLA	4	307	60/65	0.95	0.16	73,86,97,99	0
19	CLA	J	1102	45/65	0.95	0.15	52,65,80,89	0
19	CLA	3	316	46/65	0.95	0.12	142,149,159,163	0
19	CLA	A	829	65/65	0.95	0.33	60,75,86,95	0
19	CLA	B	821	46/65	0.96	0.21	86,100,118,122	0
19	CLA	2	505	52/65	0.96	0.13	116,134,141,144	0
19	CLA	A	808	65/65	0.96	0.22	54,65,82,91	0
19	CLA	B	807	65/65	0.96	0.22	54,72,82,95	0
19	CLA	B	836	65/65	0.96	0.16	48,61,68,73	0
19	CLA	B	823	55/65	0.96	0.16	54,74,98,105	0
19	CLA	B	829	65/65	0.96	0.20	50,67,92,100	0
19	CLA	A	840	65/65	0.96	0.17	43,58,88,96	0
19	CLA	B	820	65/65	0.96	0.24	61,78,98,105	0
19	CLA	B	822	65/65	0.96	0.18	70,89,119,127	0
19	CLA	L	301	55/65	0.96	0.19	74,85,116,125	0
19	CLA	A	809	65/65	0.96	0.17	51,65,99,102	0
19	CLA	A	824	65/65	0.96	0.21	67,85,106,124	0
19	CLA	2	507	65/65	0.96	0.18	78,91,100,102	0
27	CL0	A	801	65/65	0.96	0.19	48,59,71,80	0
19	CLA	2	508	55/65	0.96	0.18	74,87,111,116	0
19	CLA	B	813	46/65	0.96	0.17	84,95,120,135	0
19	CLA	A	810	50/65	0.96	0.20	78,96,106,121	0

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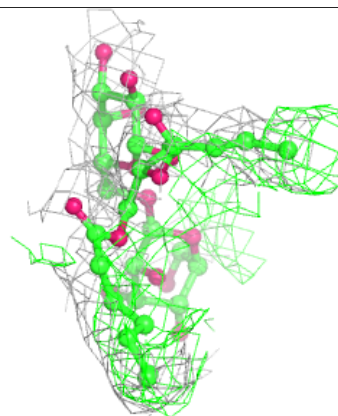
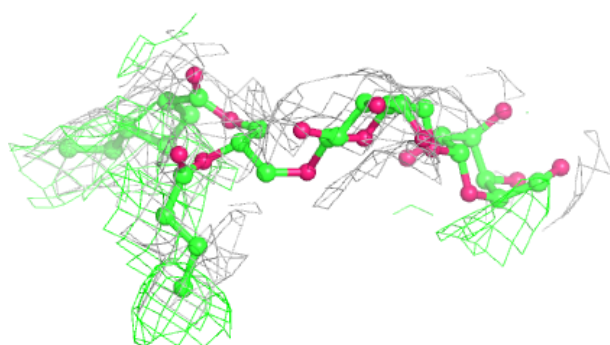
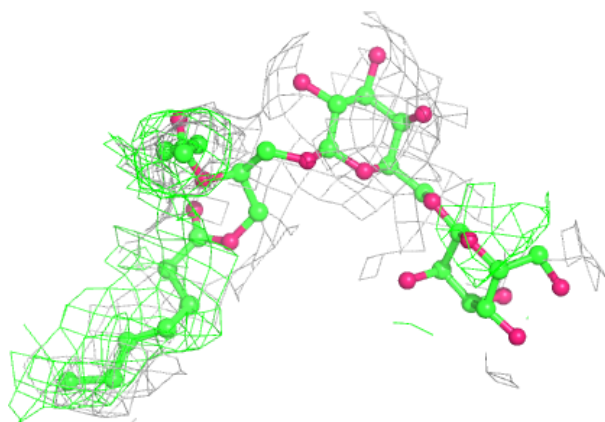
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
19	CLA	F	302	65/65	0.96	0.17	45,60,75,80	0
19	CLA	B	809	65/65	0.96	0.20	66,82,95,126	0
19	CLA	A	807	60/65	0.96	0.15	67,88,115,118	0
19	CLA	B	835	55/65	0.96	0.16	54,68,96,100	0
19	CLA	B	803	65/65	0.96	0.20	46,59,68,71	0
19	CLA	B	837	50/65	0.96	0.20	48,58,81,100	0
19	CLA	A	803	65/65	0.96	0.20	49,64,79,83	0
19	CLA	2	504	60/65	0.96	0.18	99,111,133,136	0
19	CLA	A	806	65/65	0.96	0.20	52,61,79,86	0
19	CLA	A	819	65/65	0.96	0.31	77,88,99,104	0
29	PQN	B	841	33/33	0.96	0.21	49,64,82,85	0
19	CLA	A	855	65/65	0.96	0.23	63,77,98,107	0
19	CLA	4	315	65/65	0.96	0.24	74,96,118,123	0
19	CLA	B	806	65/65	0.96	0.18	58,72,82,99	0
19	CLA	A	839	65/65	0.97	0.17	44,53,62,70	0
19	CLA	B	819	65/65	0.97	0.27	69,76,96,101	0
19	CLA	B	832	58/65	0.97	0.12	48,60,76,78	0
19	CLA	A	841	65/65	0.97	0.23	44,57,65,67	0
29	PQN	A	844	33/33	0.97	0.24	42,54,68,74	0
19	CLA	J	1101	65/65	0.97	0.15	48,64,87,101	0
19	CLA	A	832	65/65	0.97	0.23	62,81,91,98	0
19	CLA	A	802	65/65	0.97	0.28	42,50,63,75	0
19	CLA	B	826	65/65	0.97	0.20	52,69,80,84	0
21	LHG	A	853	49/49	0.97	0.22	49,60,72,79	0
20	CHL	2	513	48/66	0.97	0.17	91,105,114,141	0
28	SF4	C	101	8/8	0.99	0.17	53,58,74,74	0

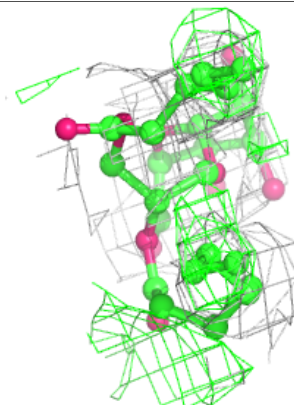
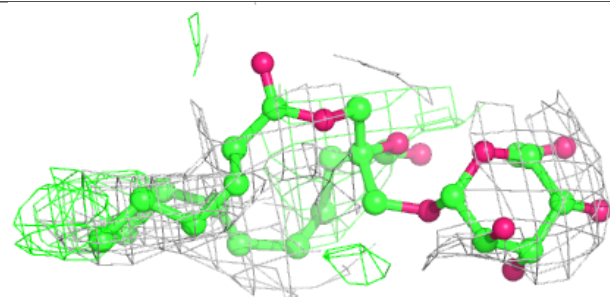
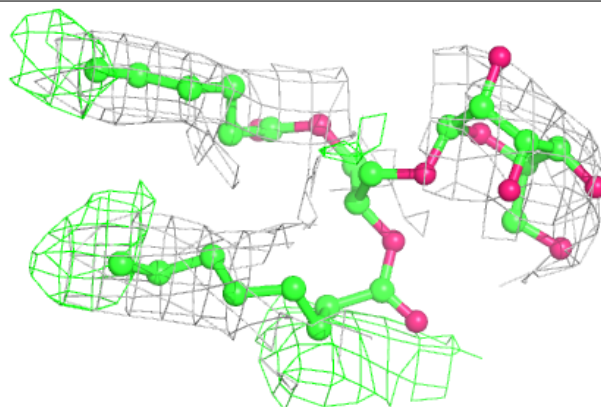
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around DGD B 801:

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

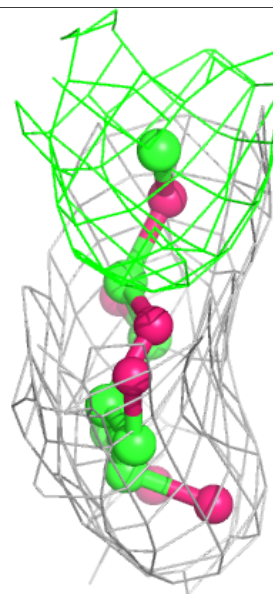
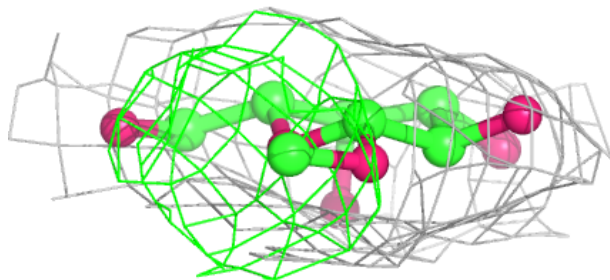
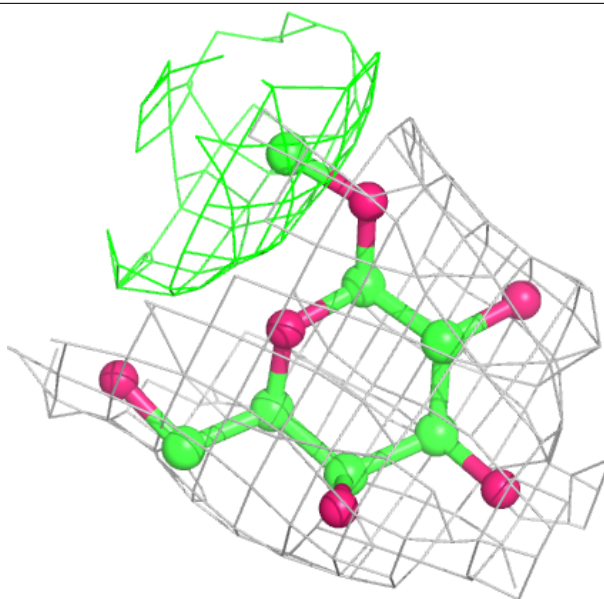
**Electron density around LMG B 845:**

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



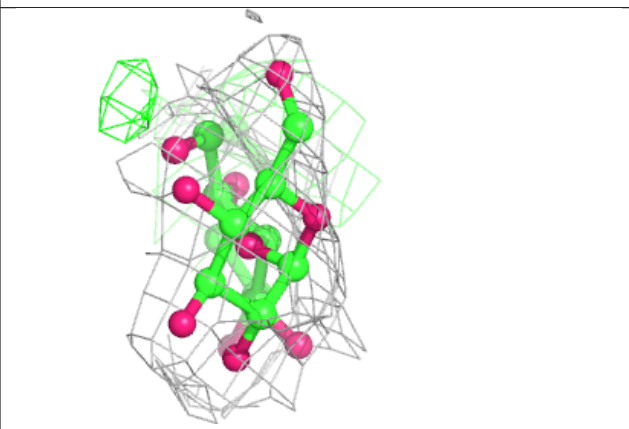
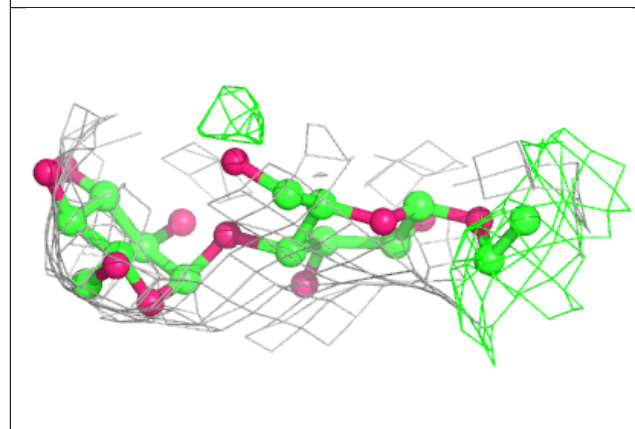
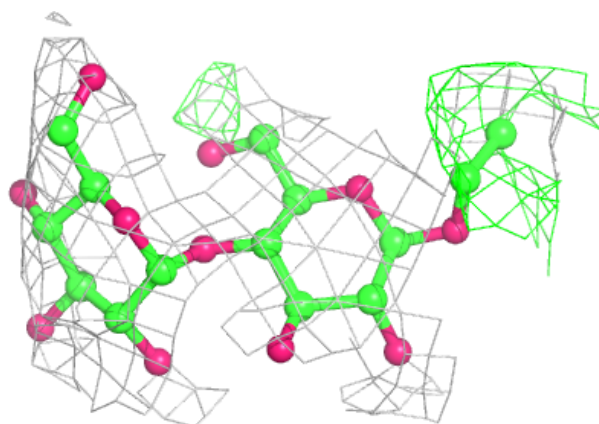
Electron density around LMG 2 520:

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

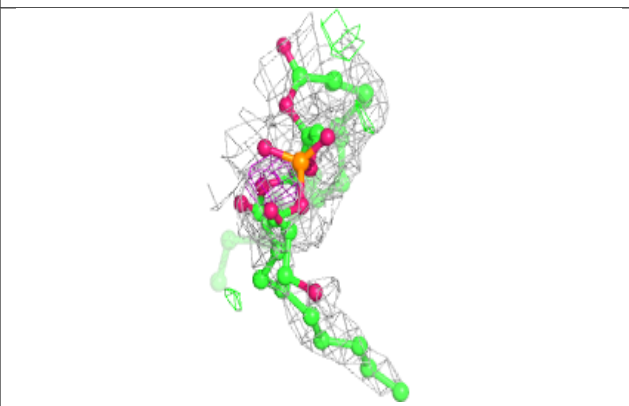
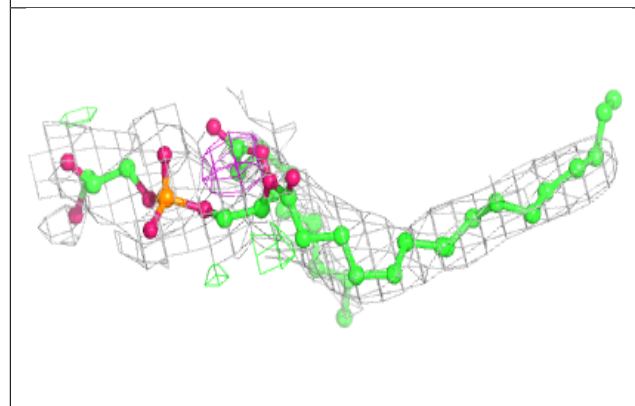
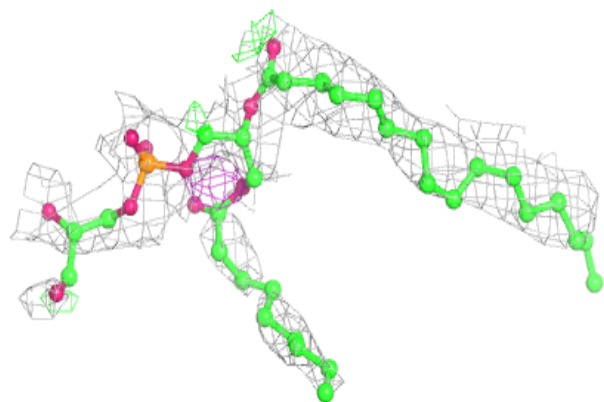


Electron density around LMT J 1107:

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

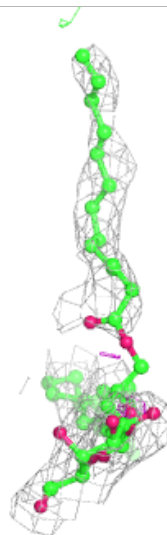
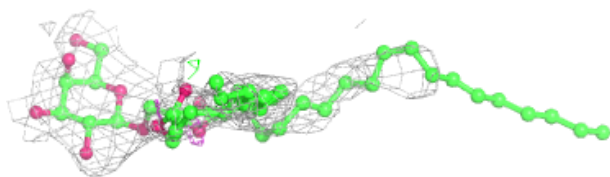
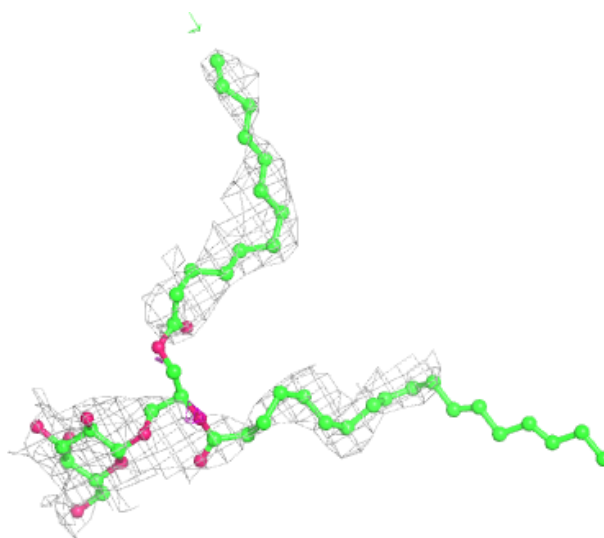
**Electron density around LHG 1 520:**

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



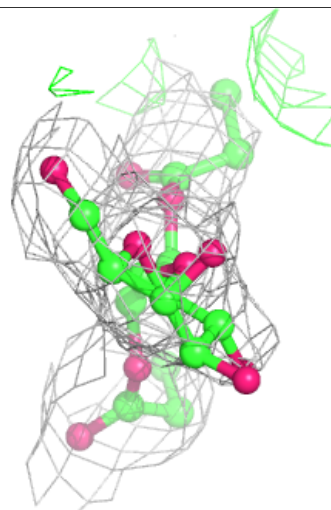
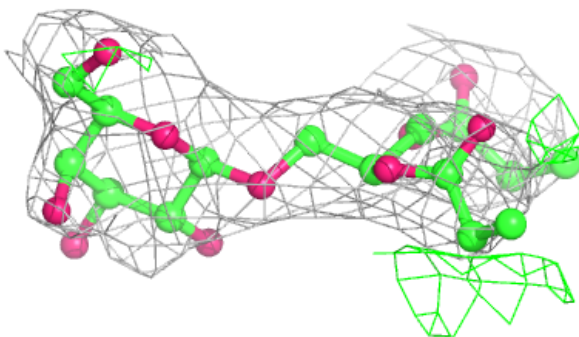
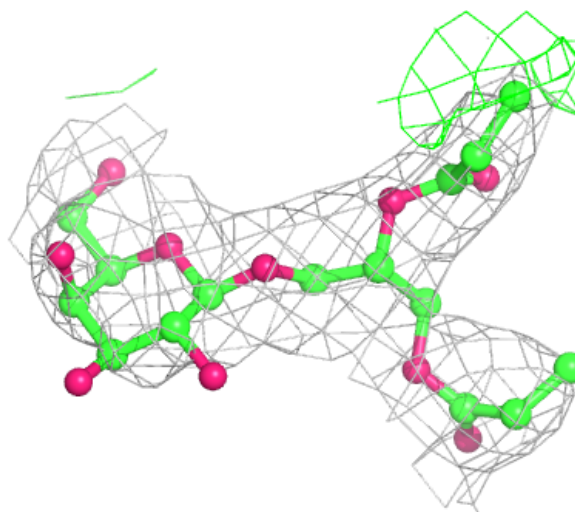
Electron density around LMG A 847:

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



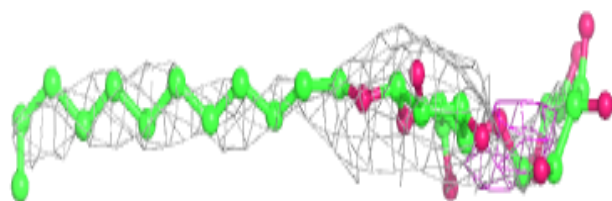
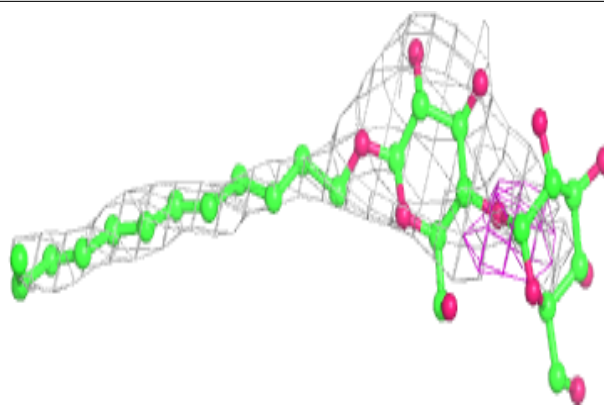
Electron density around LMG G 210:

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

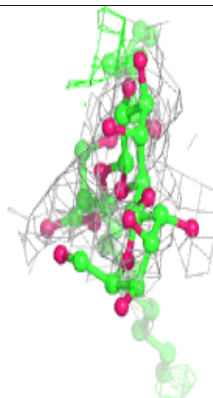
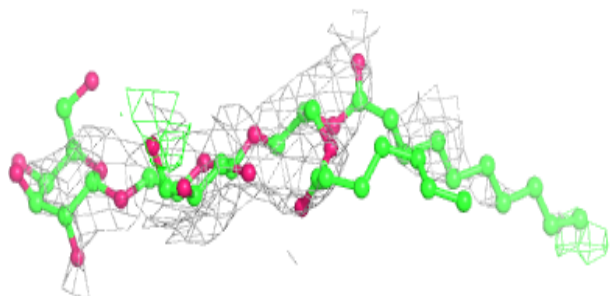
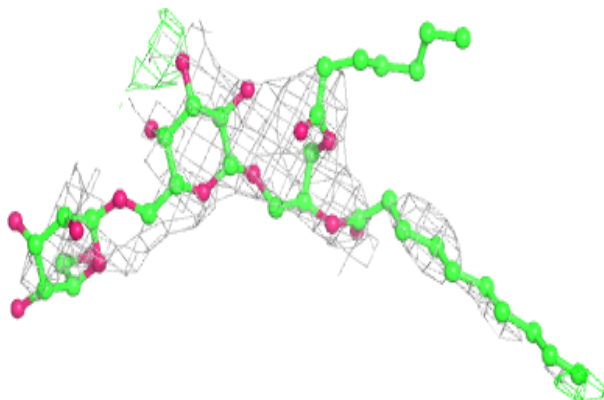


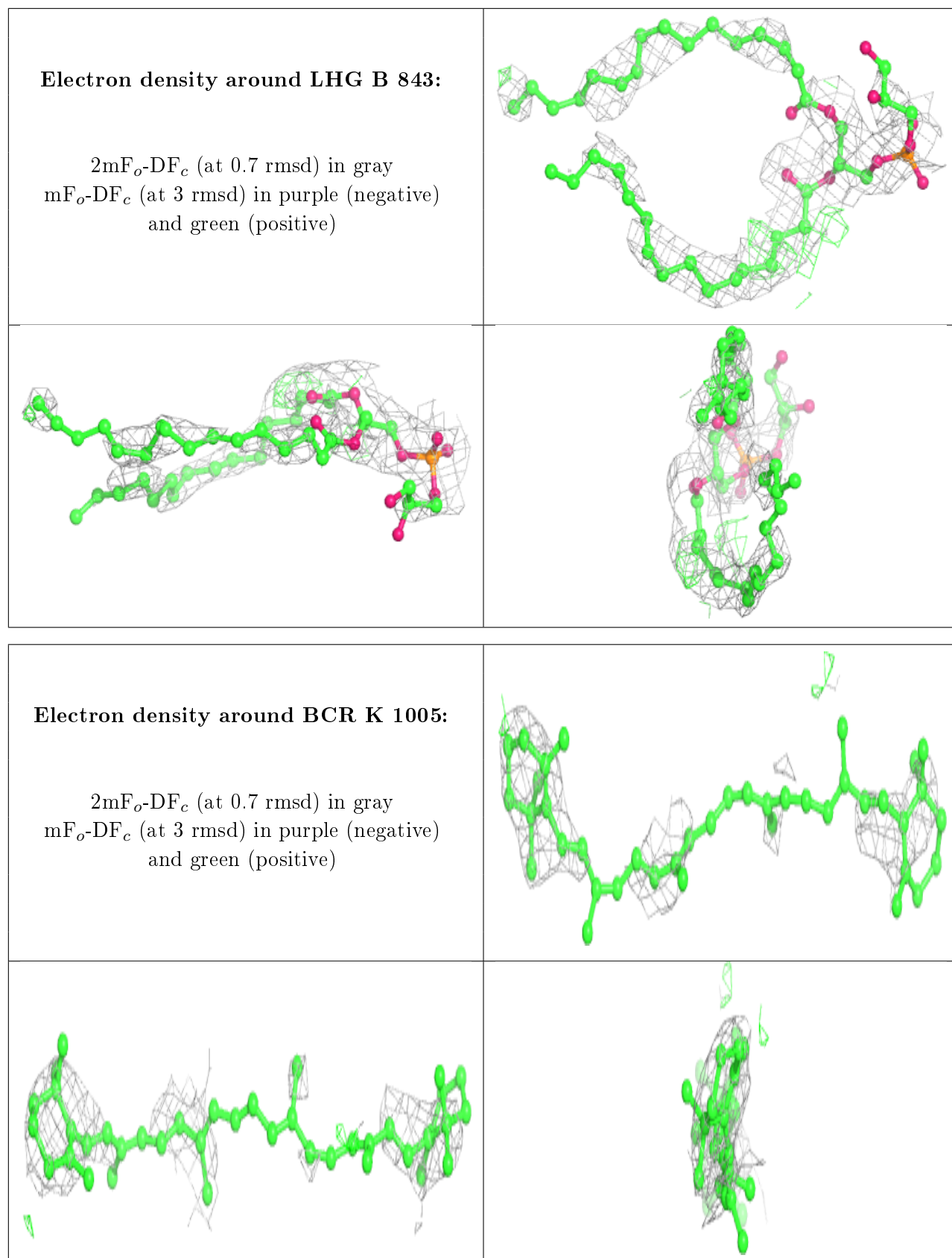
Electron density around LMT 4 320:

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

**Electron density around DGD G 207:**

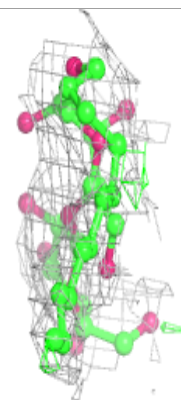
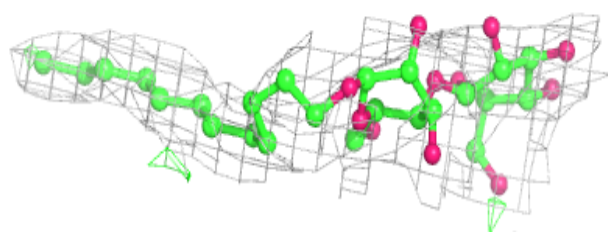
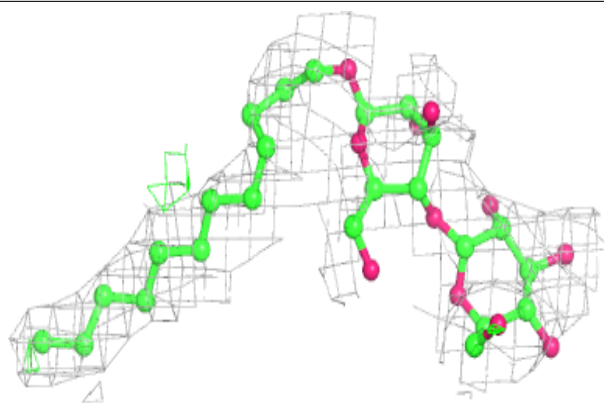
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





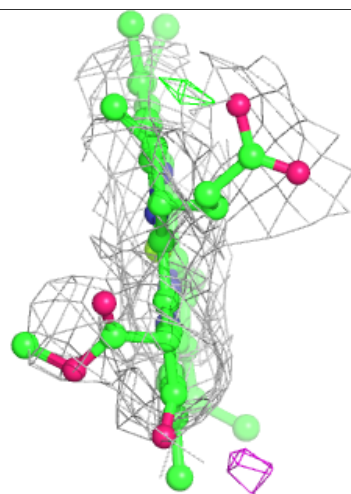
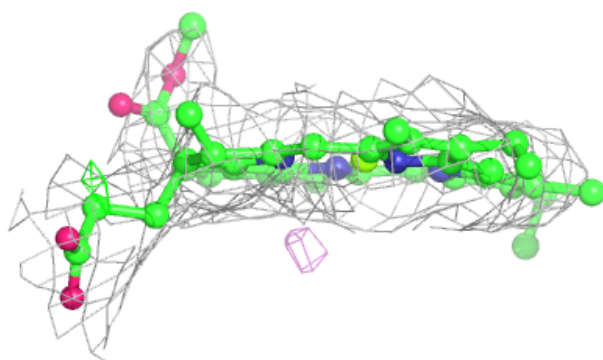
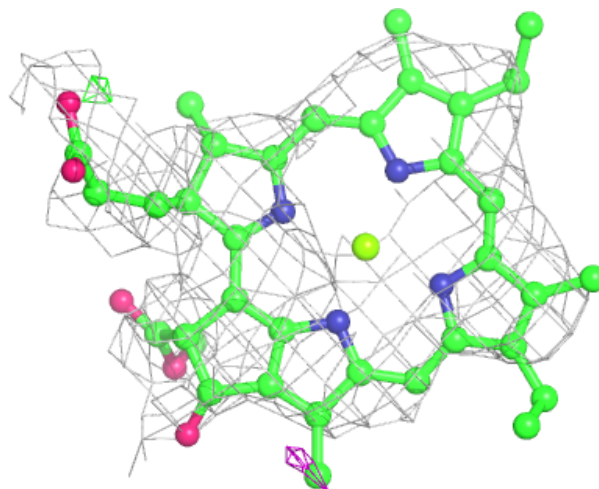
Electron density around LMT 2 523:

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



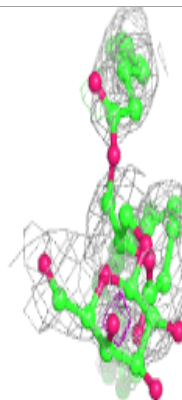
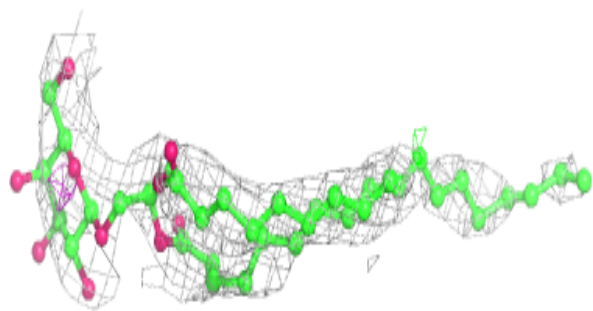
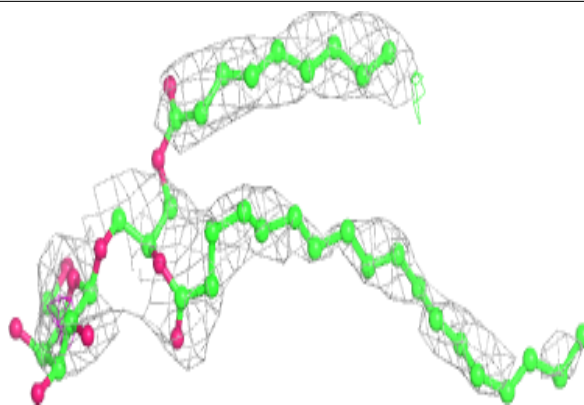
Electron density around CLA K 1001:

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

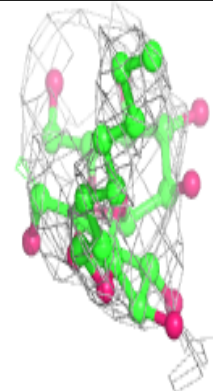
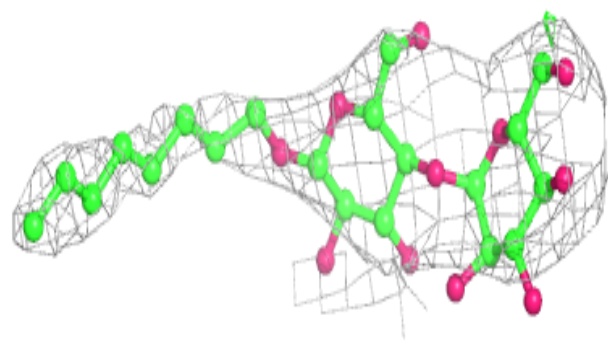
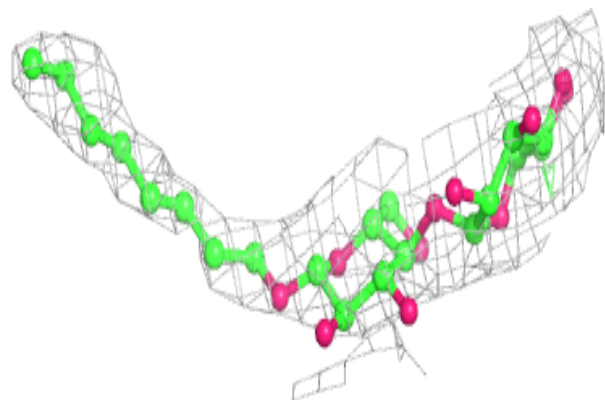


Electron density around LMG 1 518:

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

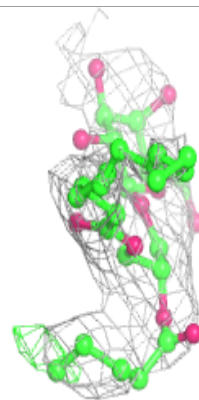
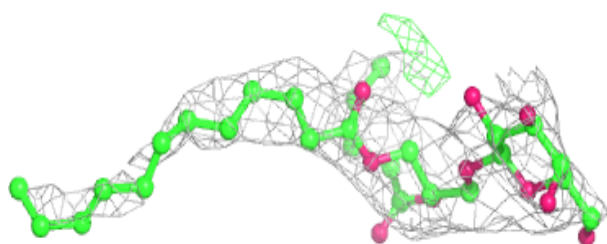
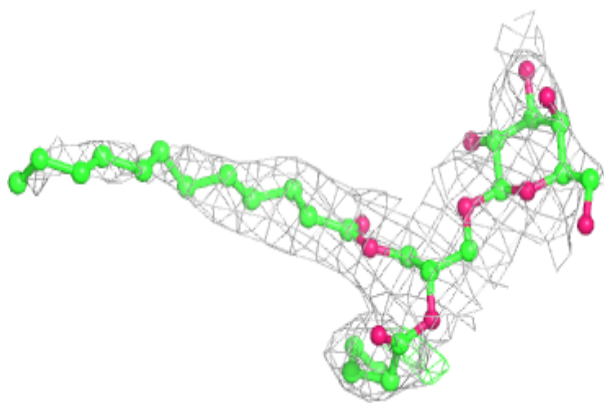
**Electron density around LMT 3 318:**

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

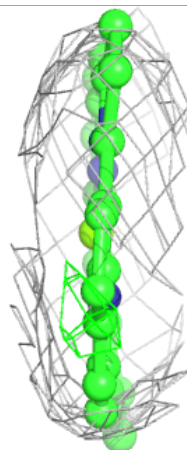
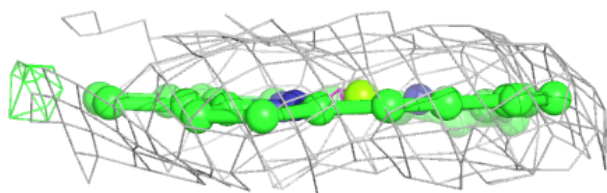
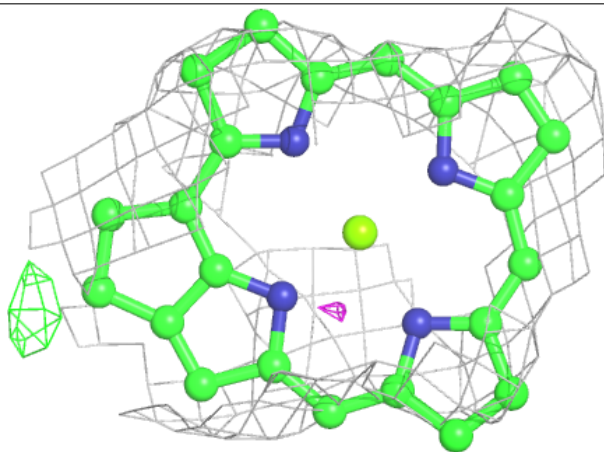


Electron density around LMG F 305:

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

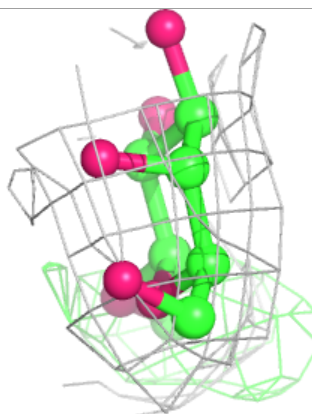
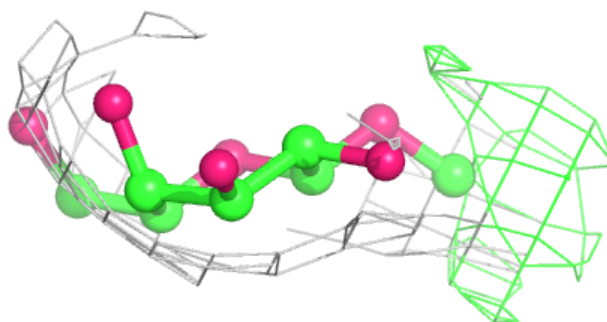
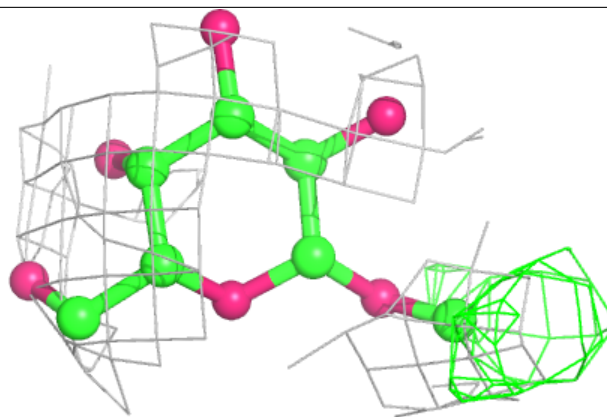
**Electron density around CLA K 1004:**

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

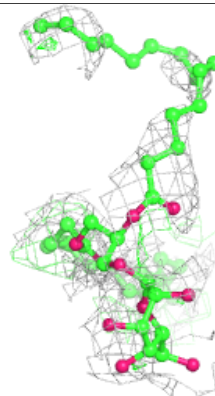
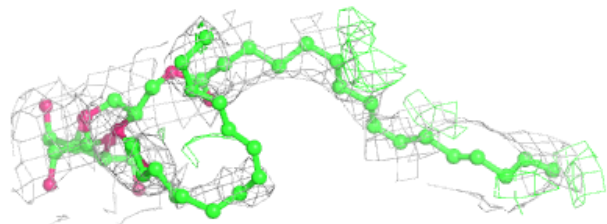
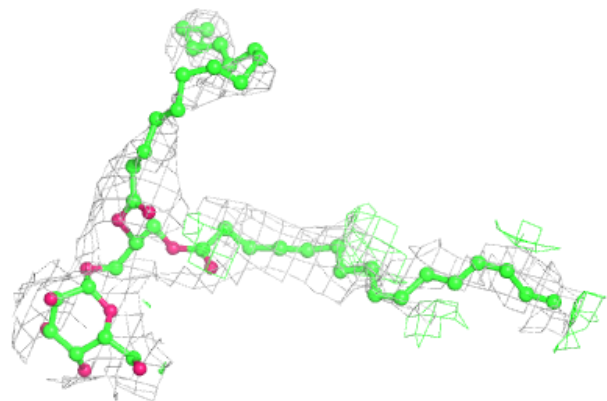


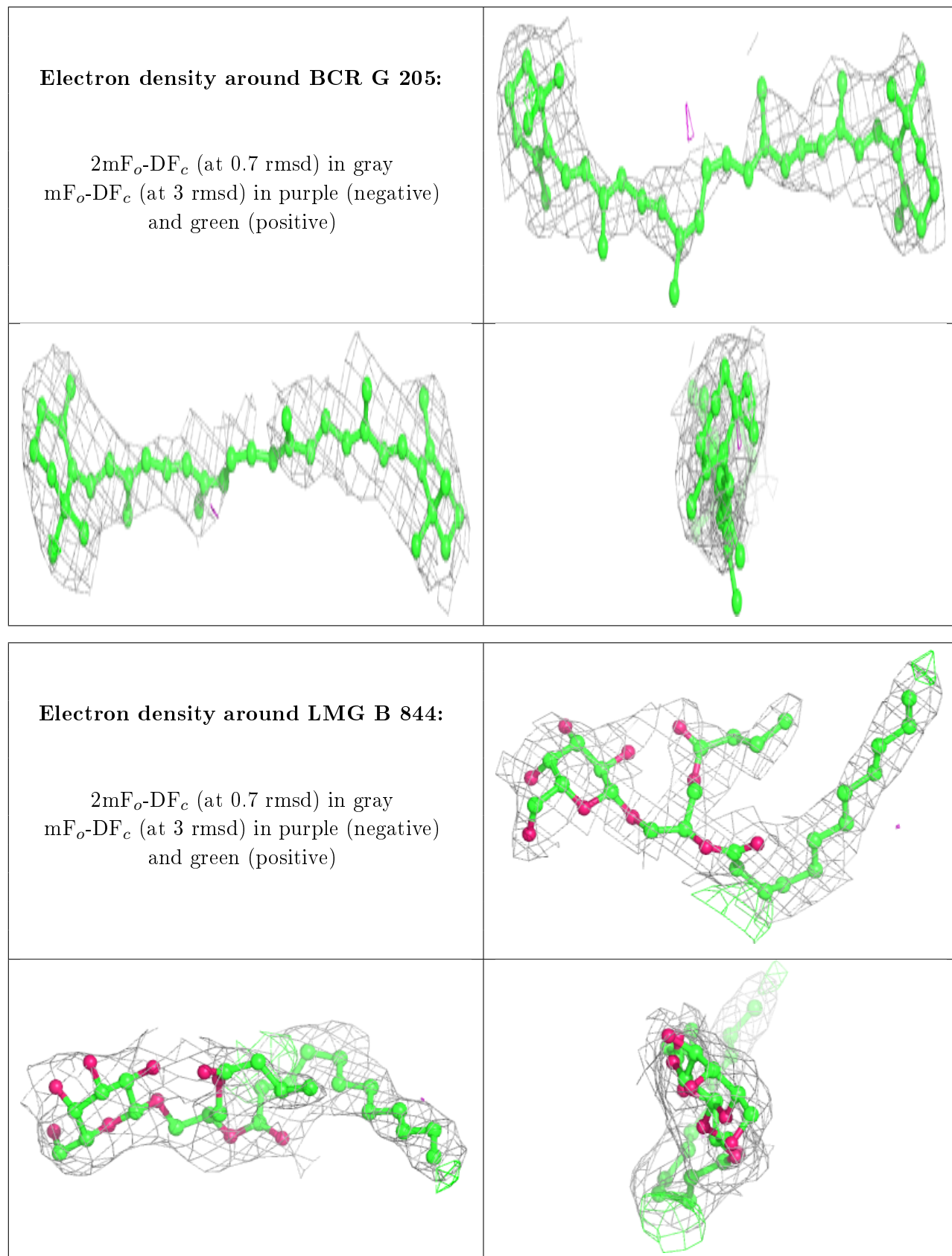
Electron density around LMG 2 522:

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

**Electron density around LMG G 206:**

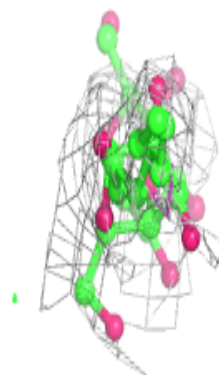
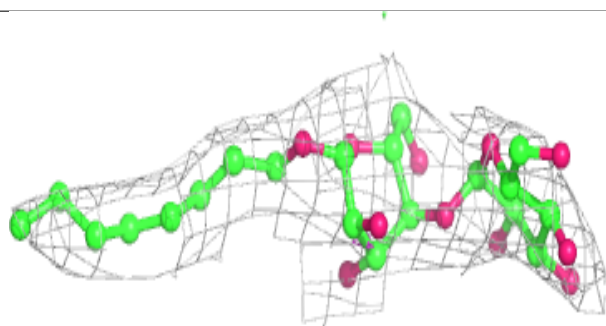
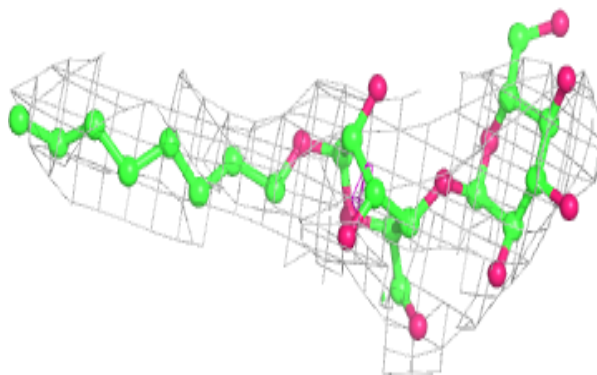
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



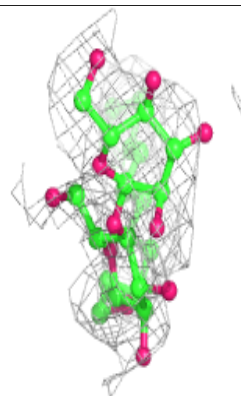
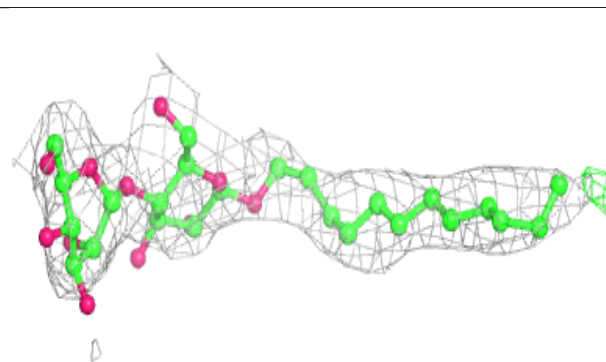
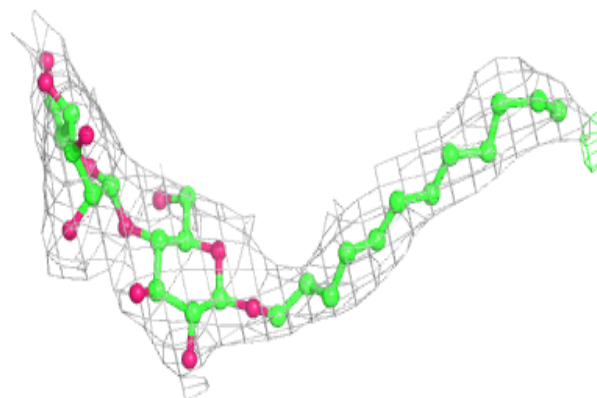


Electron density around LMT G 209:

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

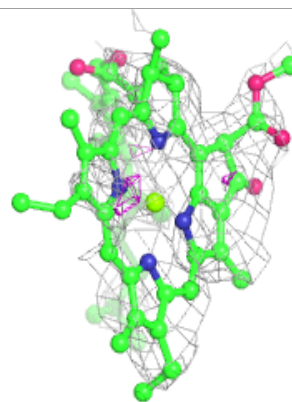
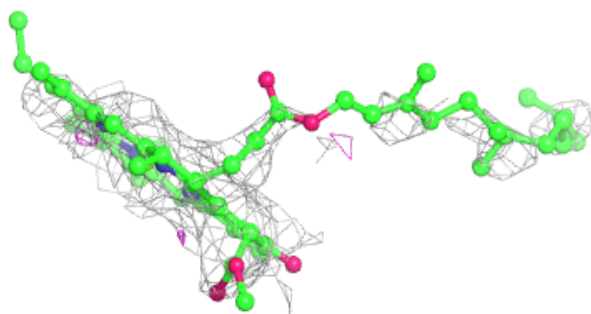
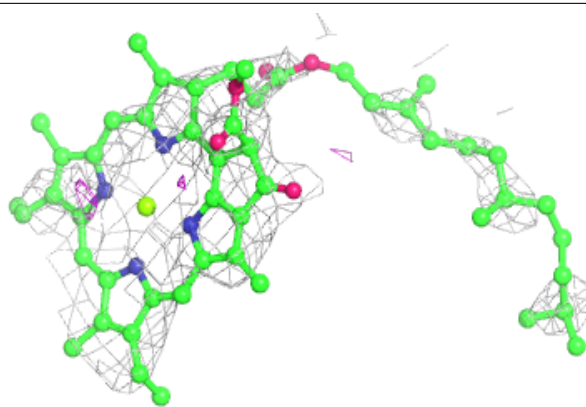
**Electron density around LMT A 846:**

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

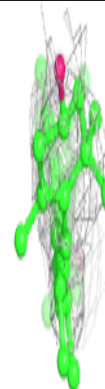
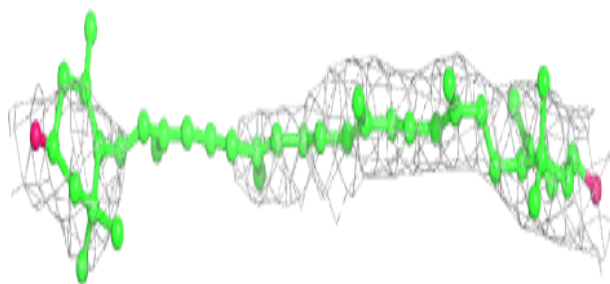
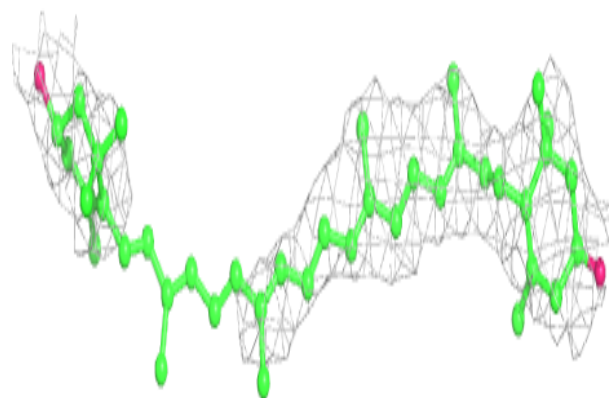


Electron density around CLA K 1002:

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

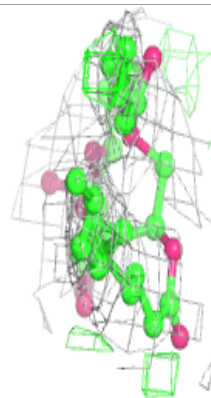
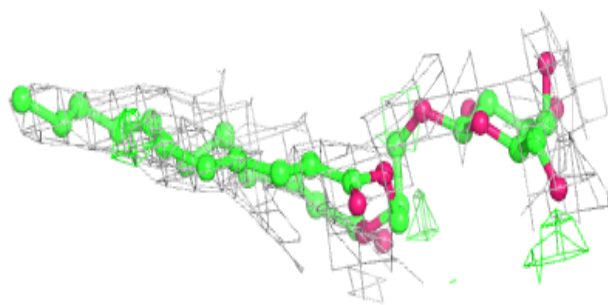
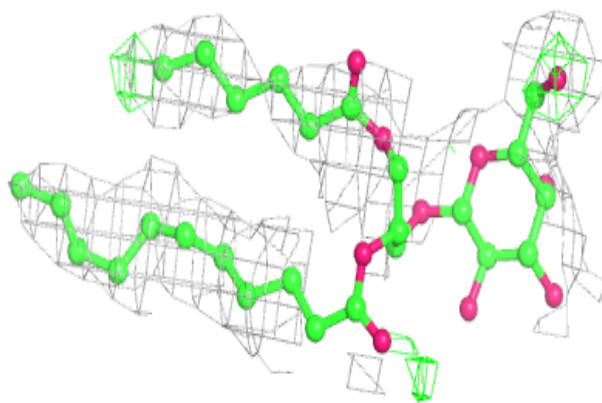
**Electron density around LUT 3 302:**

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

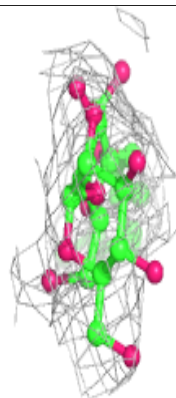
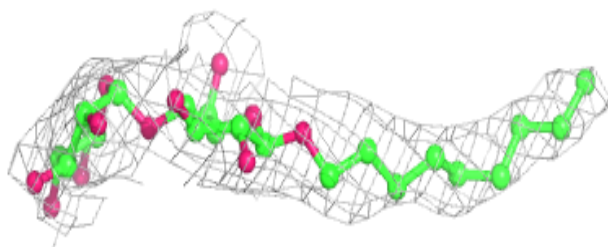
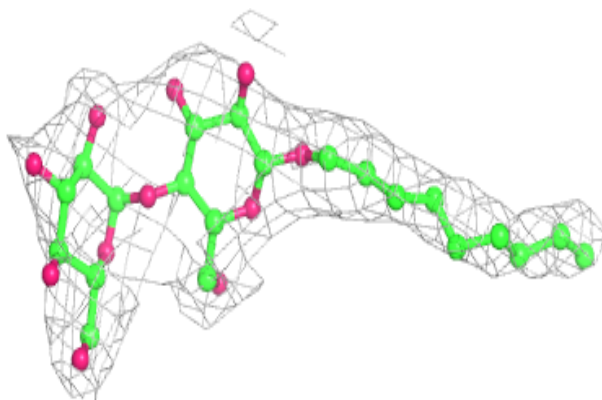


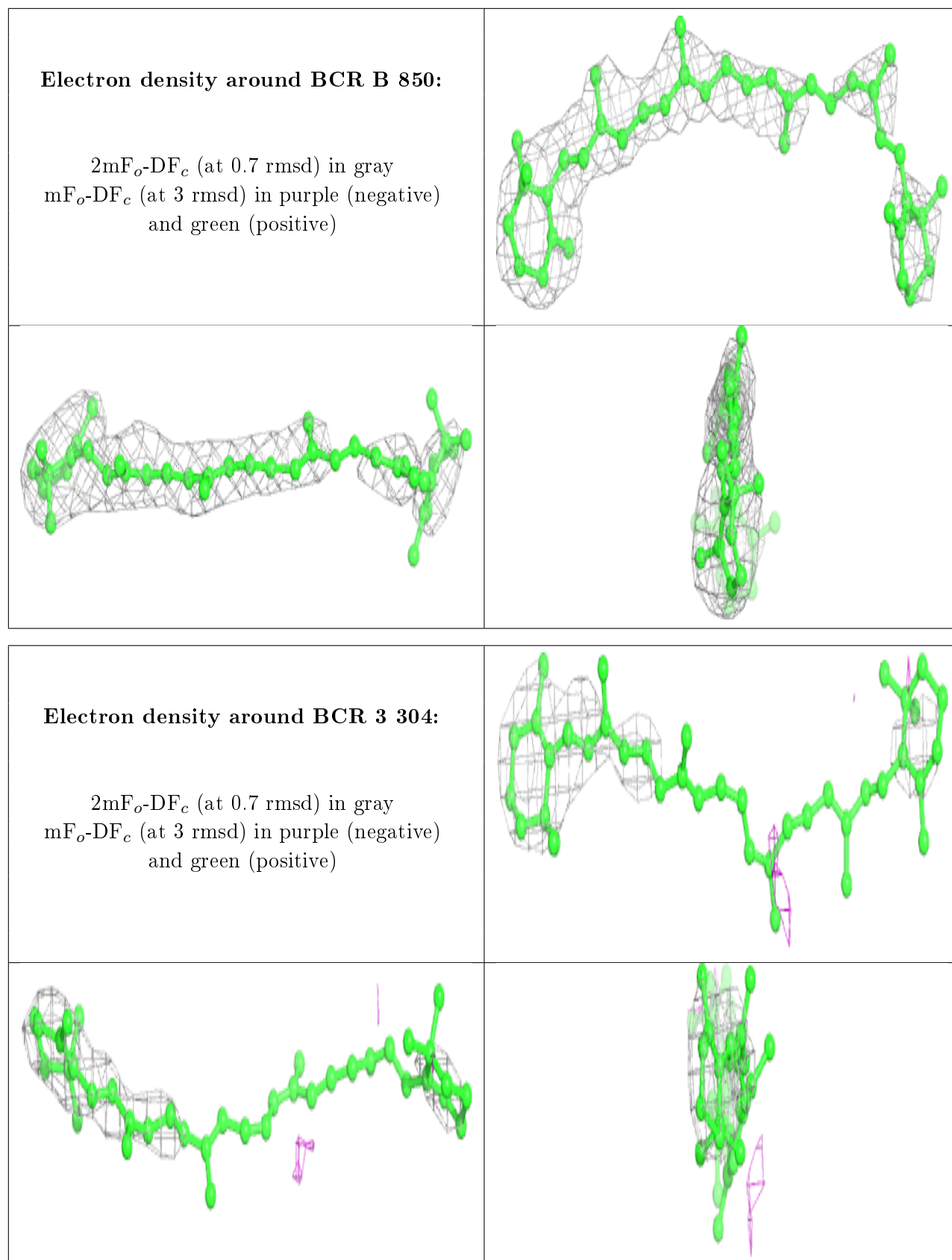
Electron density around LMG 2 519:

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

**Electron density around LMT B 847:**

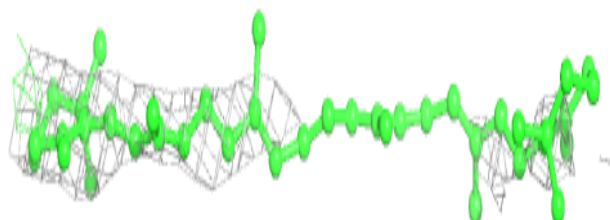
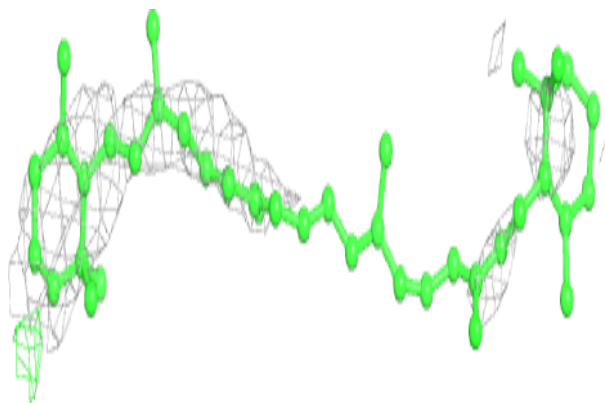
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



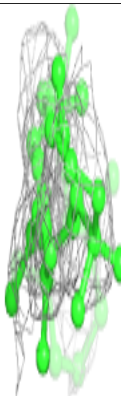
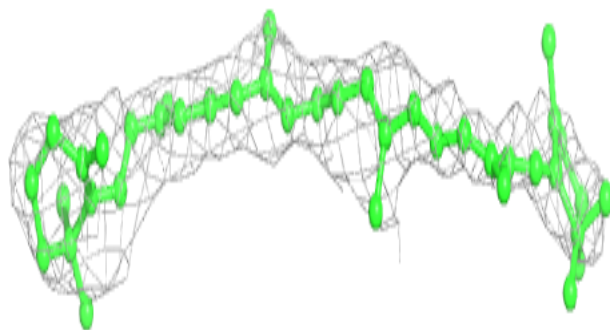
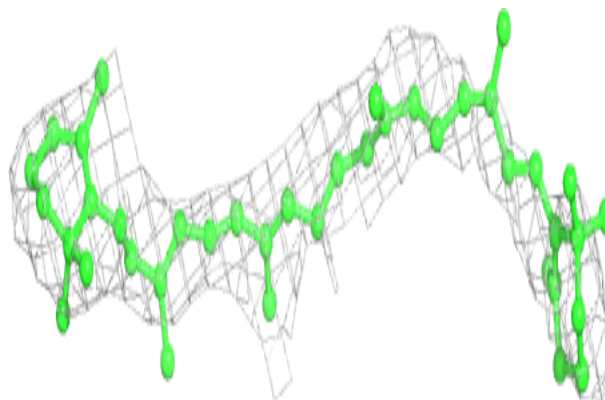


Electron density around BCR 2 503:

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

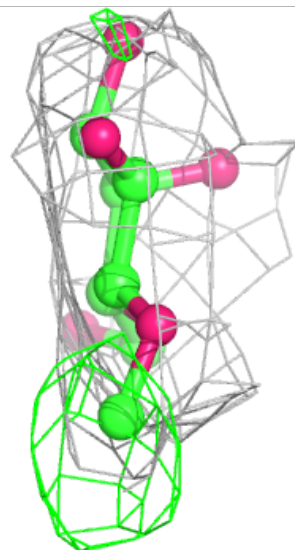
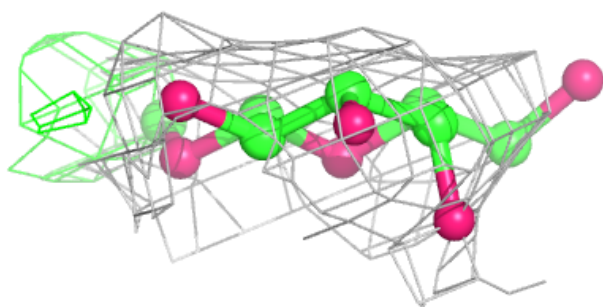
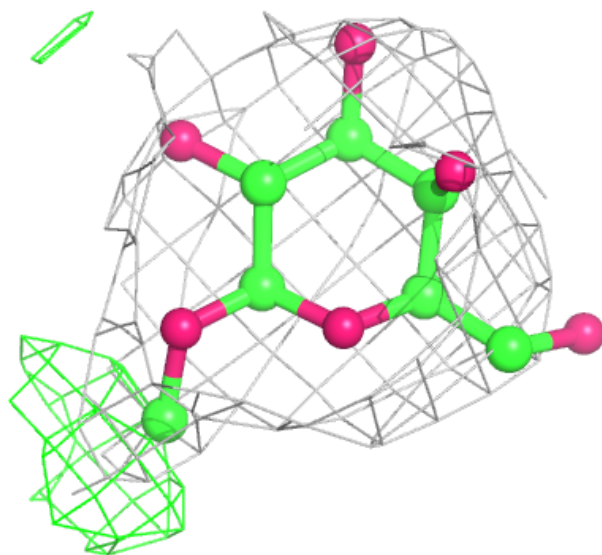
**Electron density around BCR L 307:**

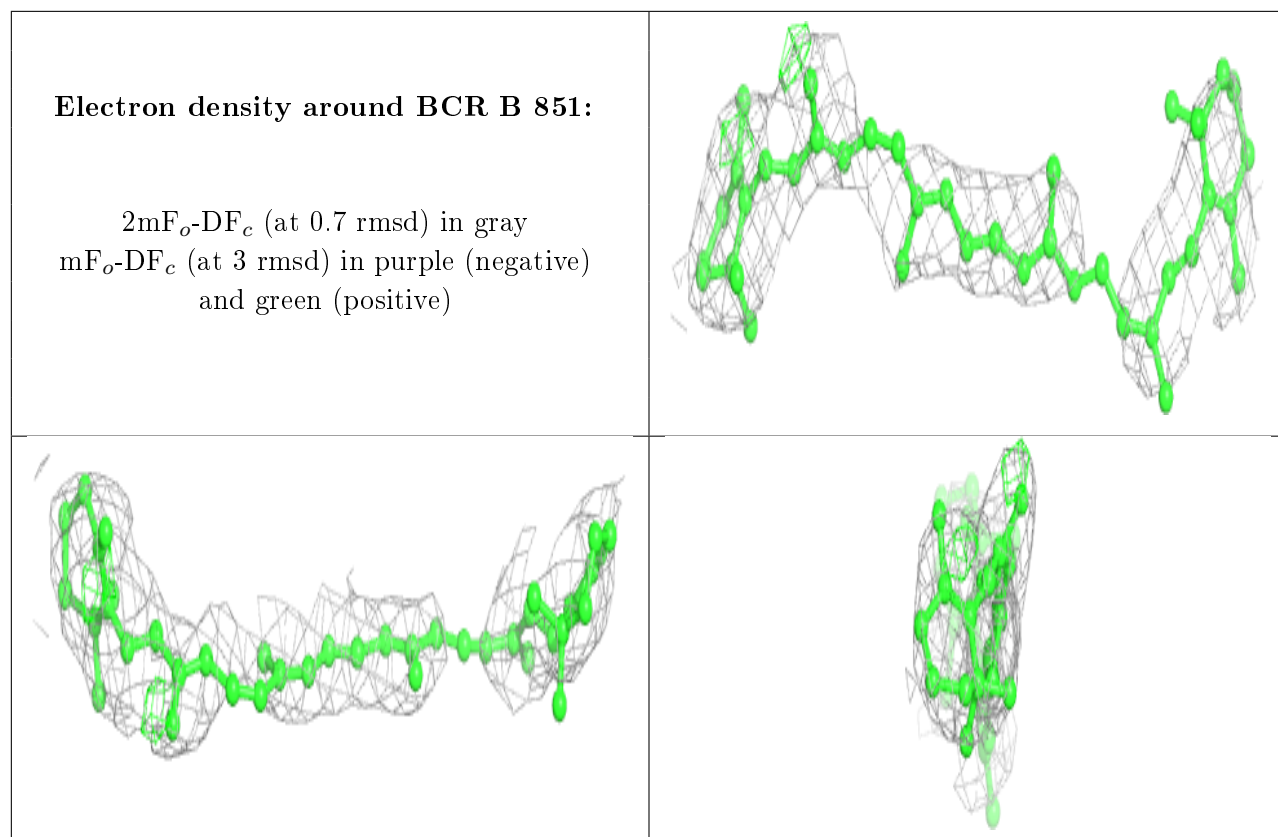
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around LMG 2 524:

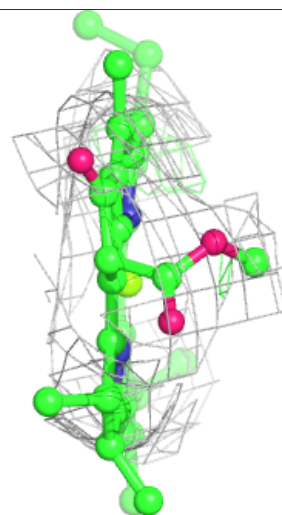
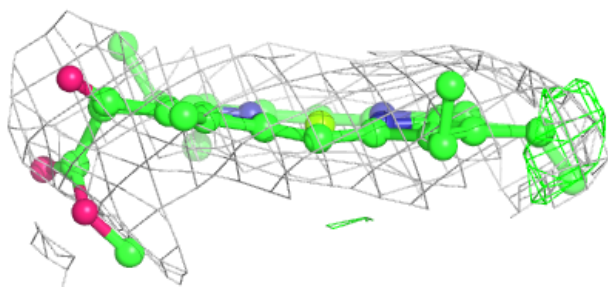
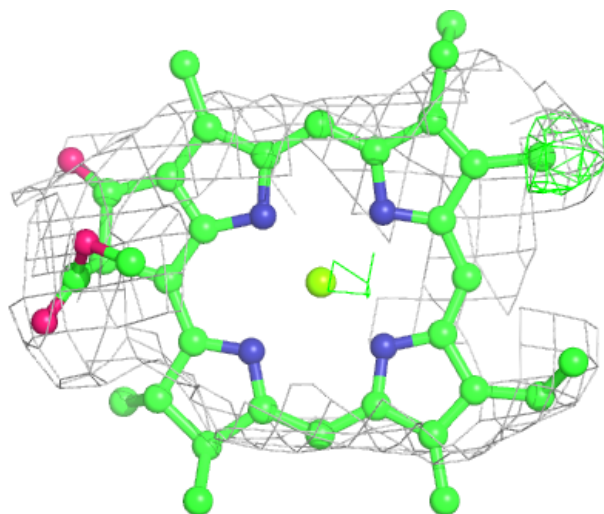
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





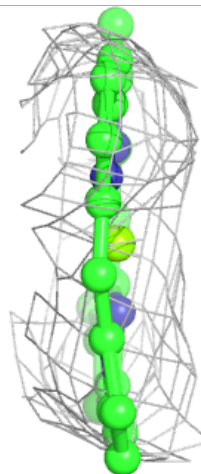
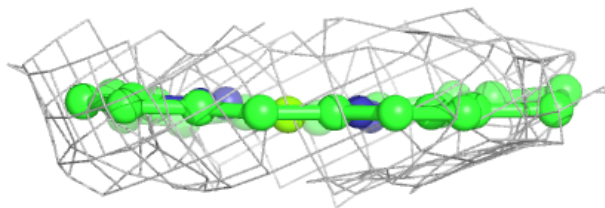
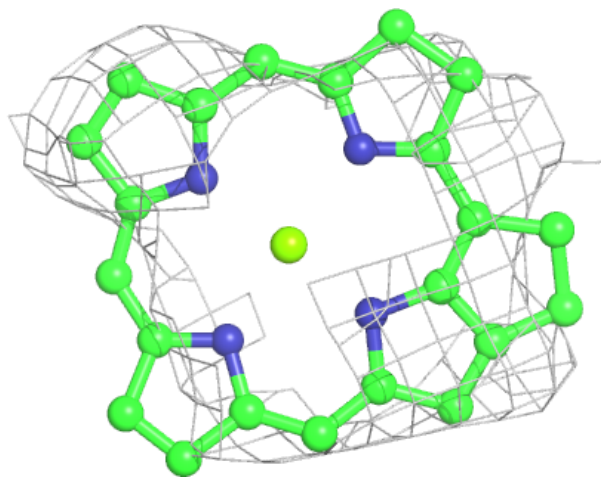
Electron density around CLA 3 311:

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



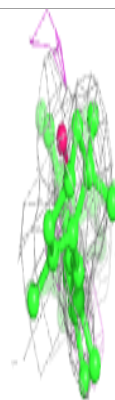
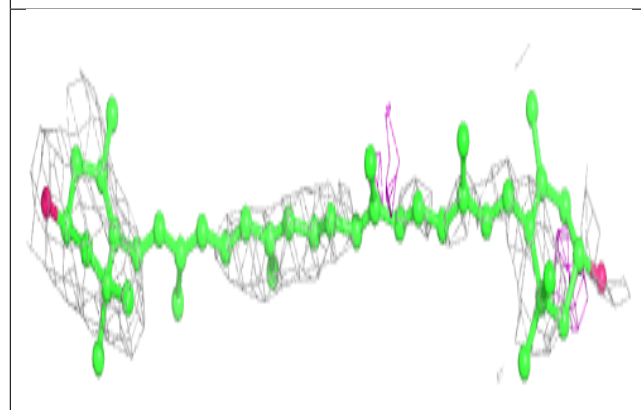
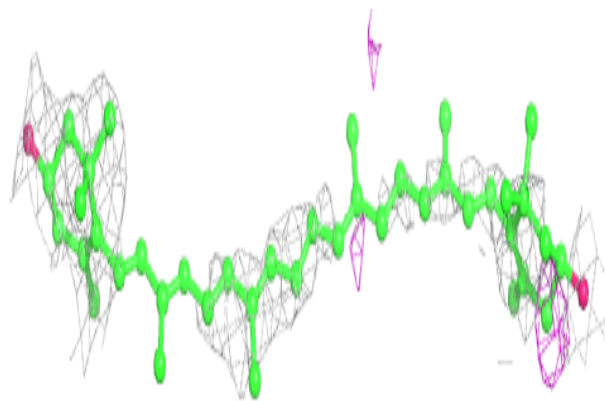
Electron density around CLA K 1003:

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



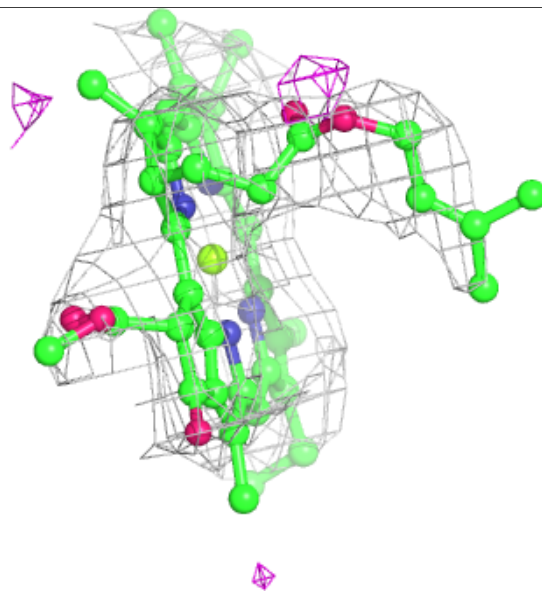
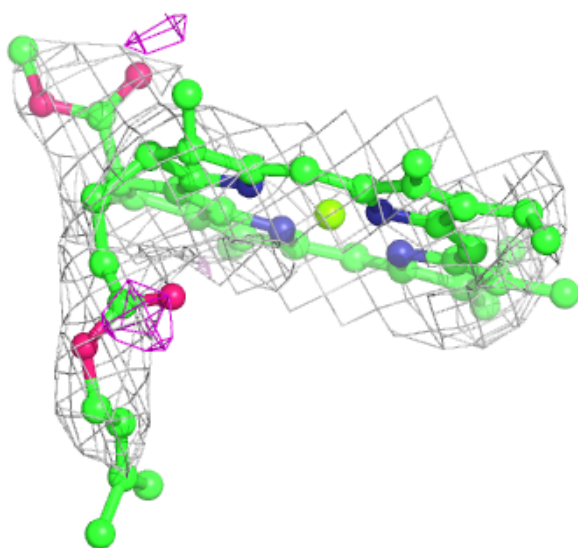
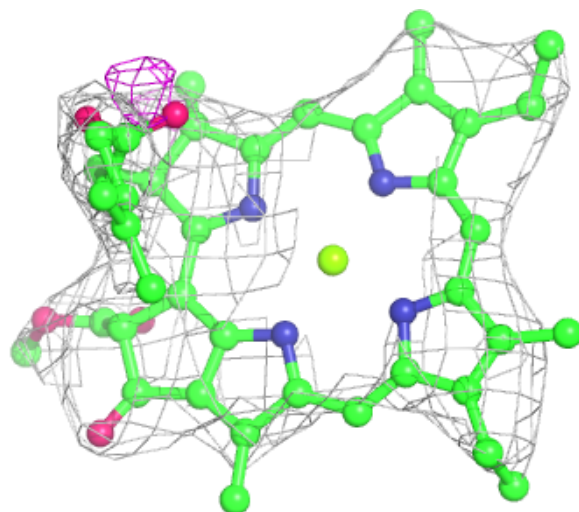
Electron density around LUT 3 301:

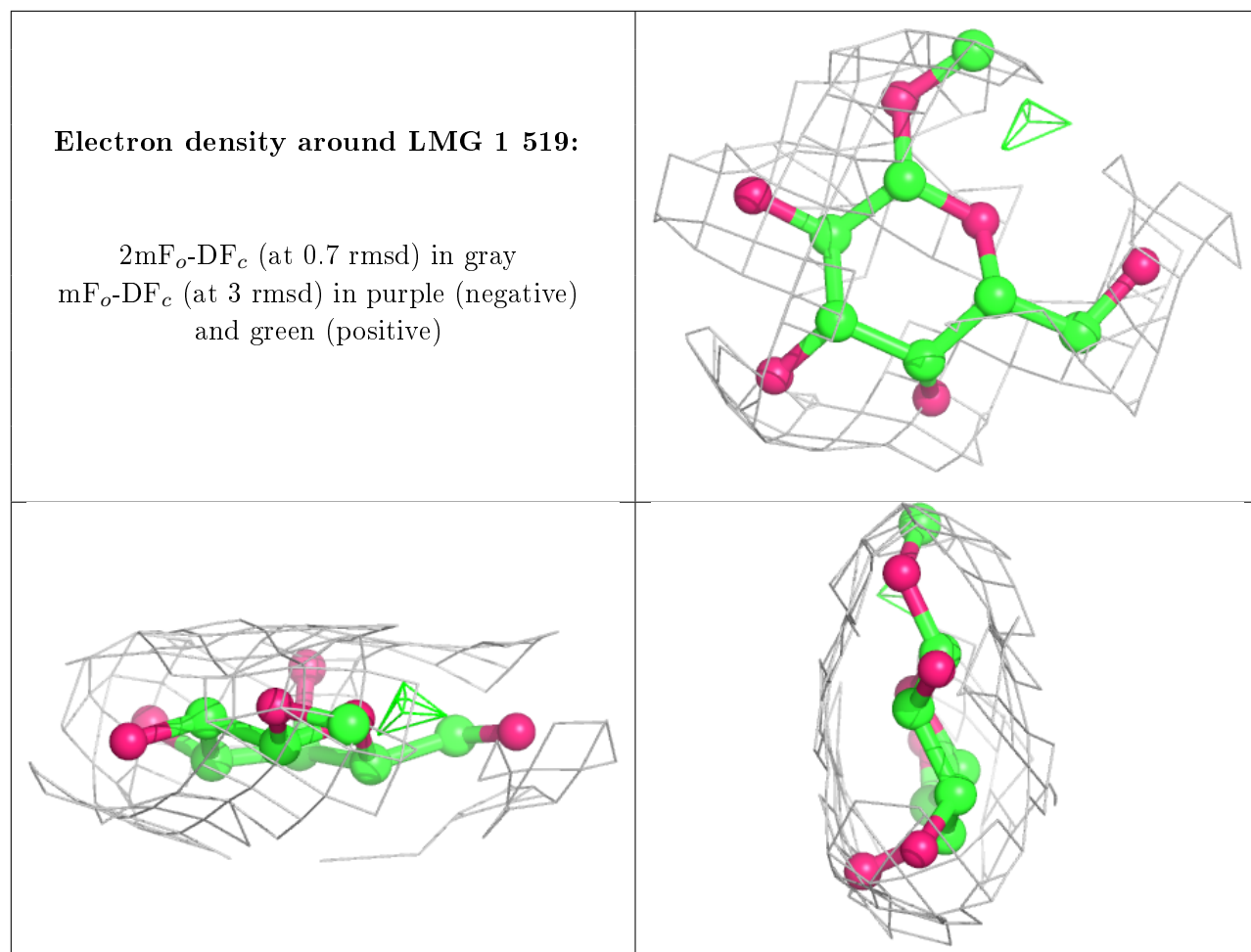
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA L 305:

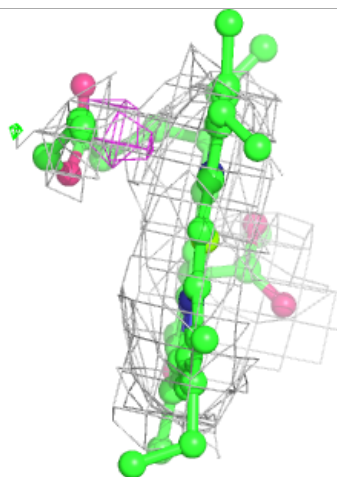
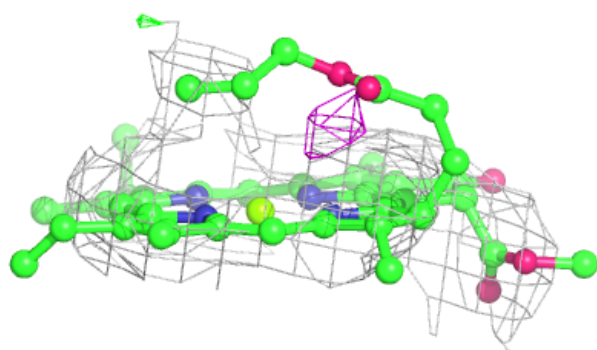
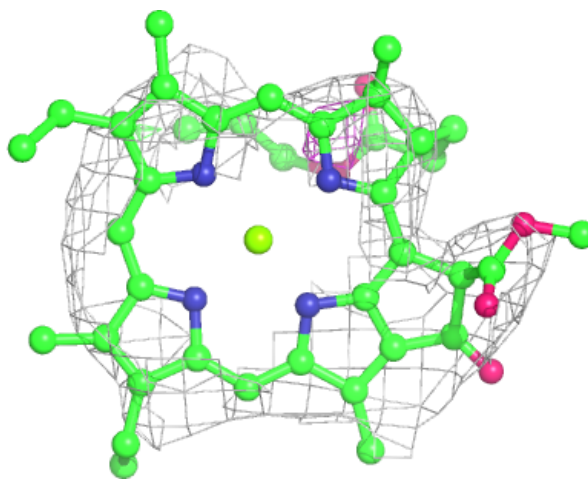
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





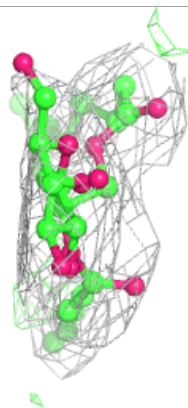
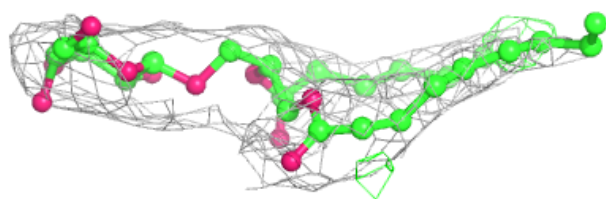
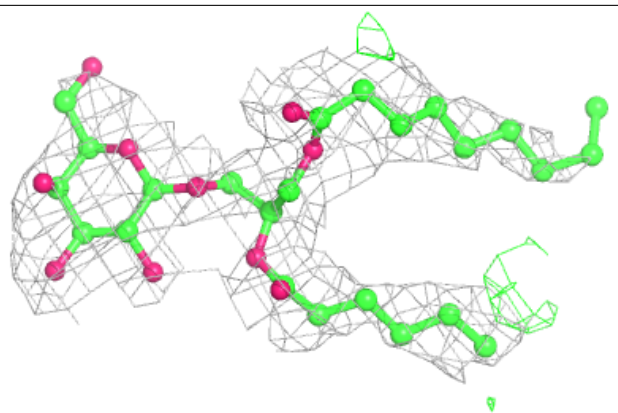
Electron density around CLA 3 312:

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

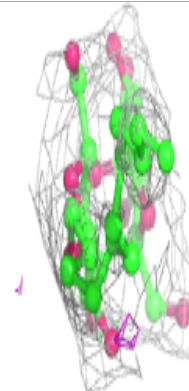
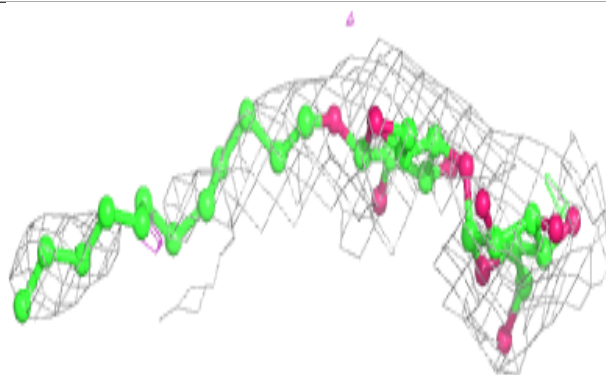
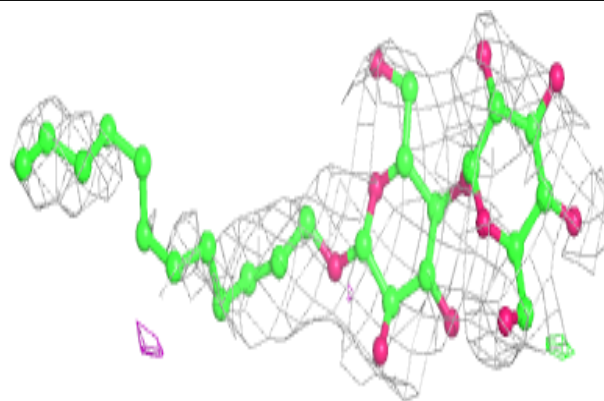


Electron density around LMG J 1104:

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

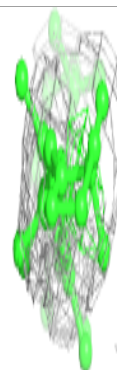
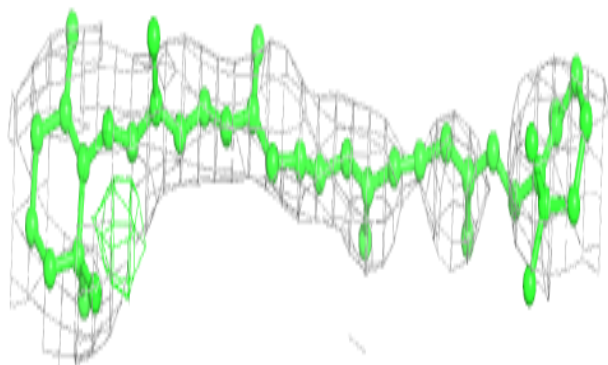
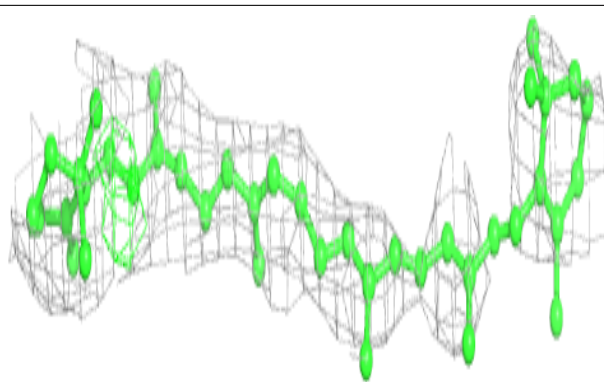
**Electron density around LMT G 208:**

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

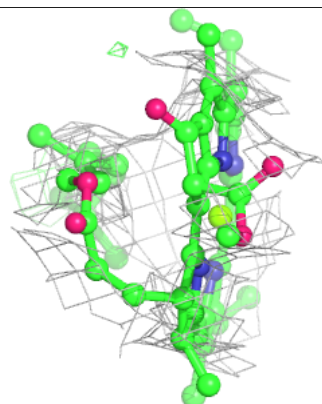
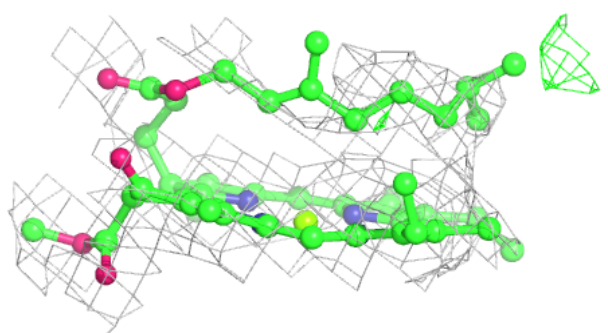
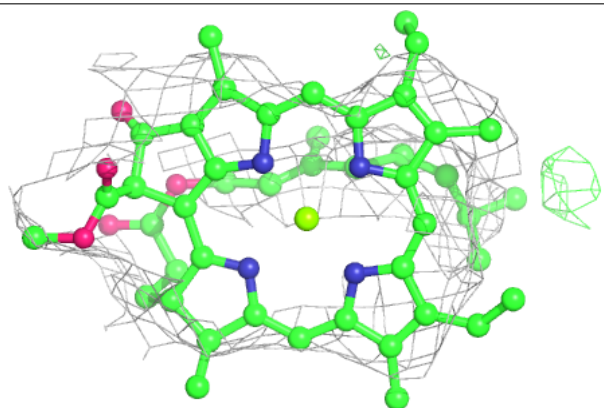


Electron density around BCR 3 303:

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

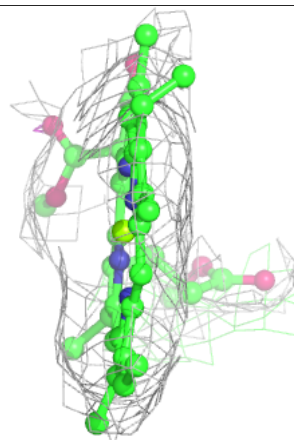
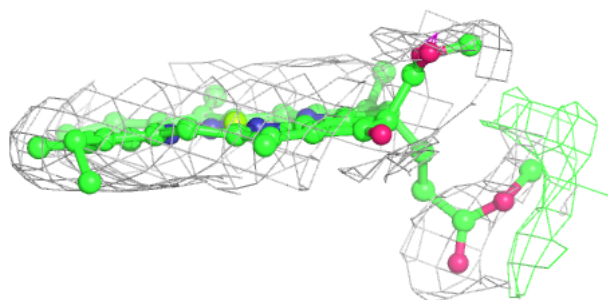
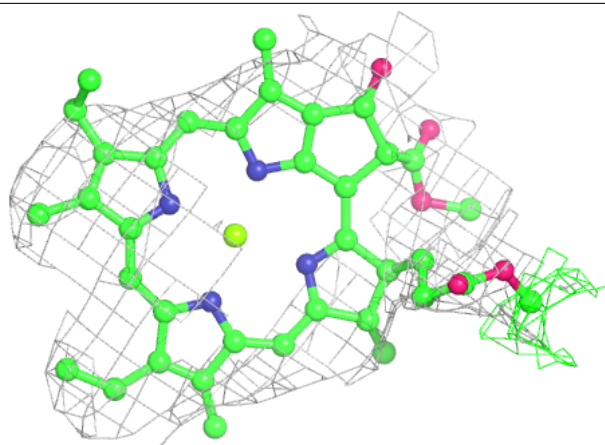
**Electron density around CLA 3 307:**

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

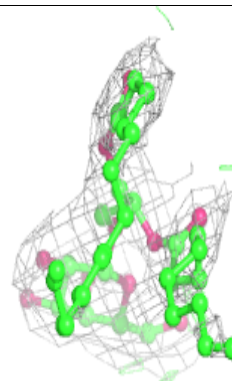
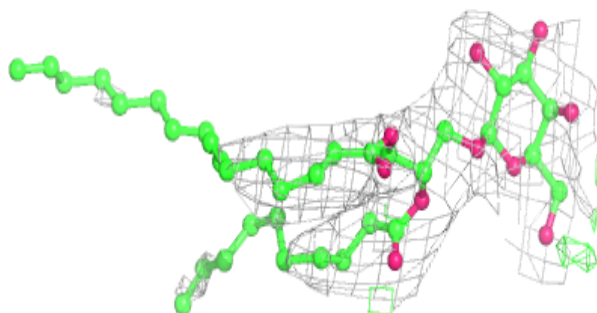
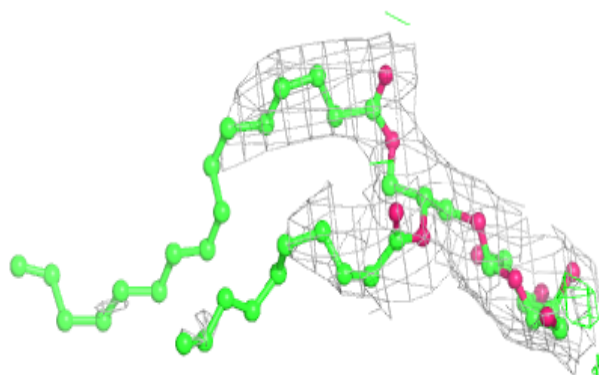


Electron density around CLA 1 510:

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

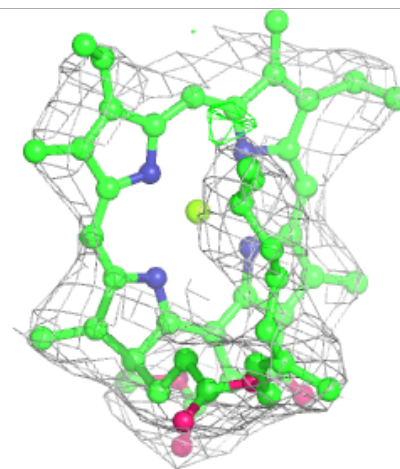
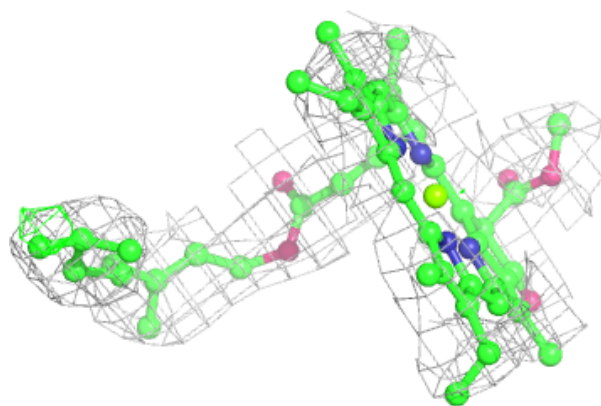
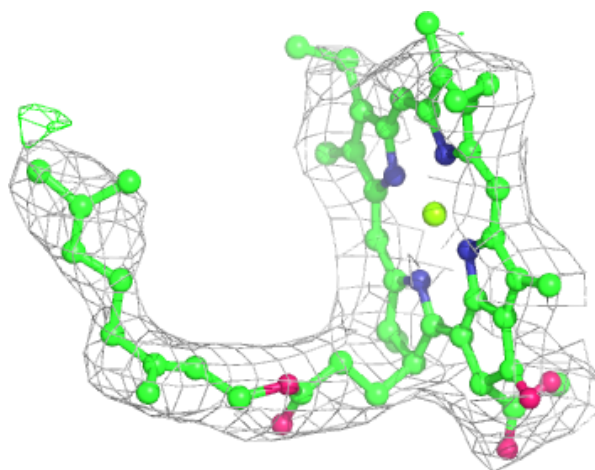
**Electron density around LMG 4 322:**

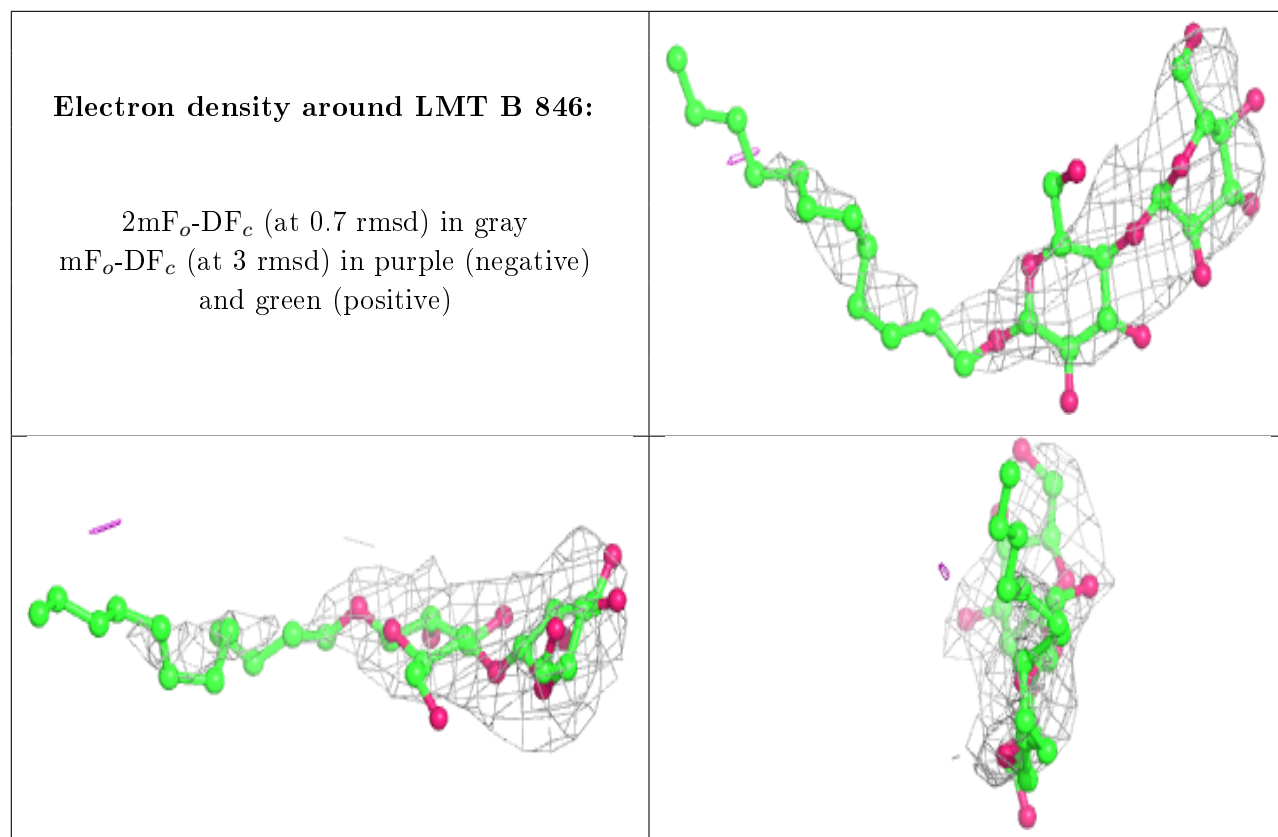
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 816:

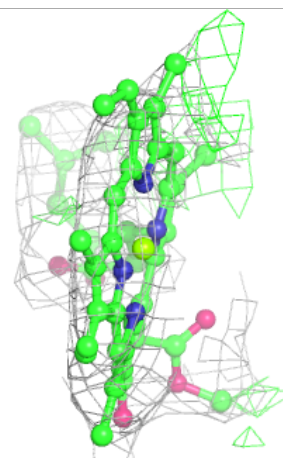
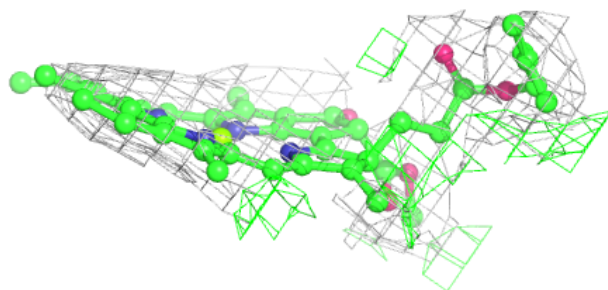
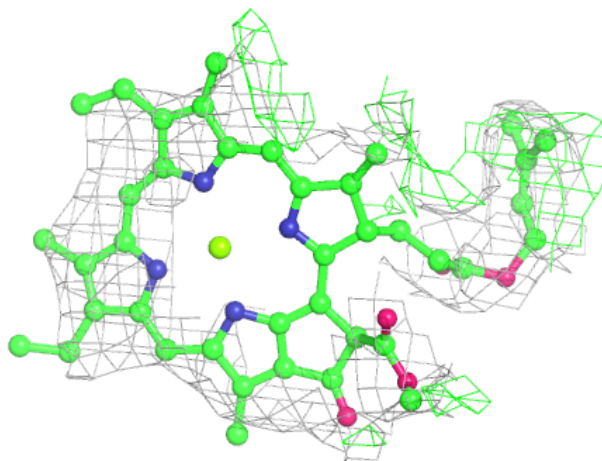
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





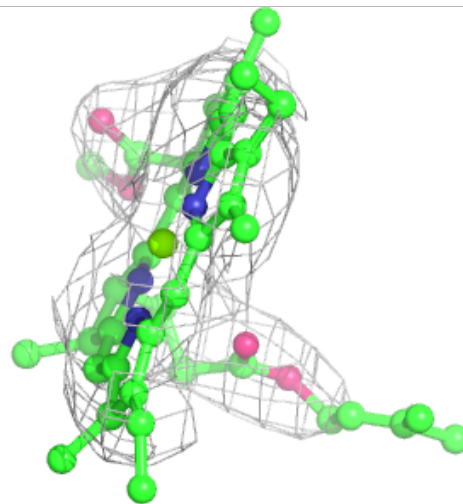
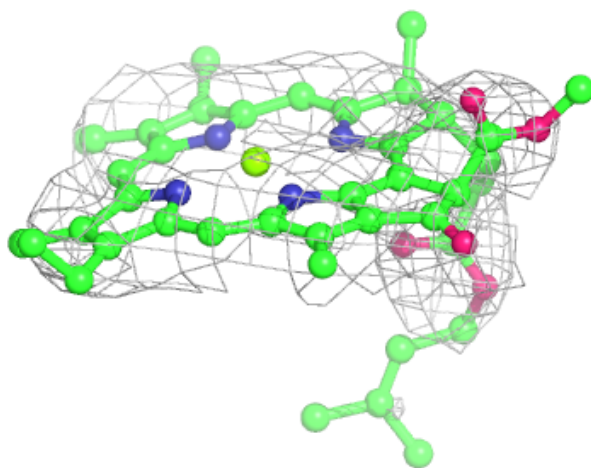
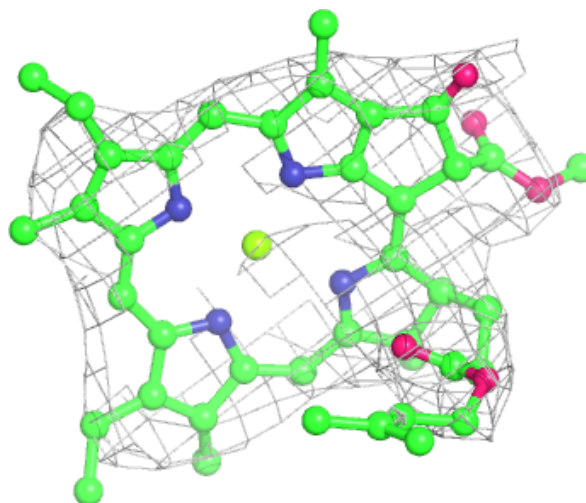
Electron density around CLA J 1105:

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



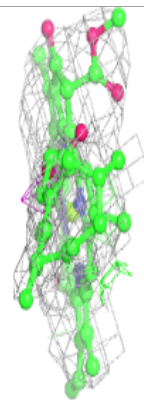
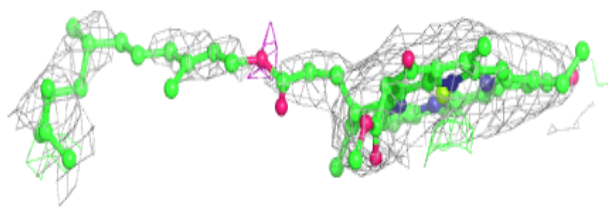
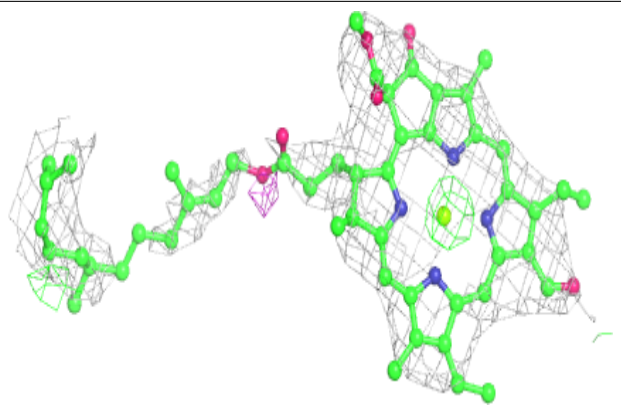
Electron density around CLA 4 309:

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



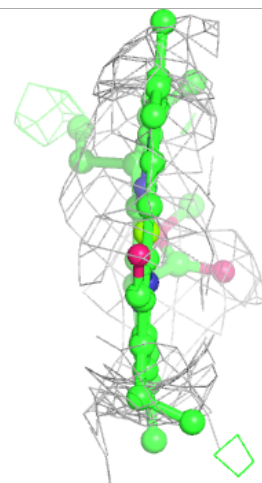
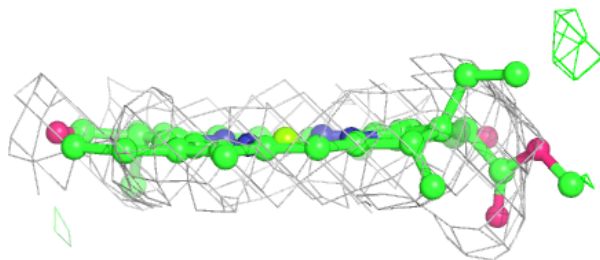
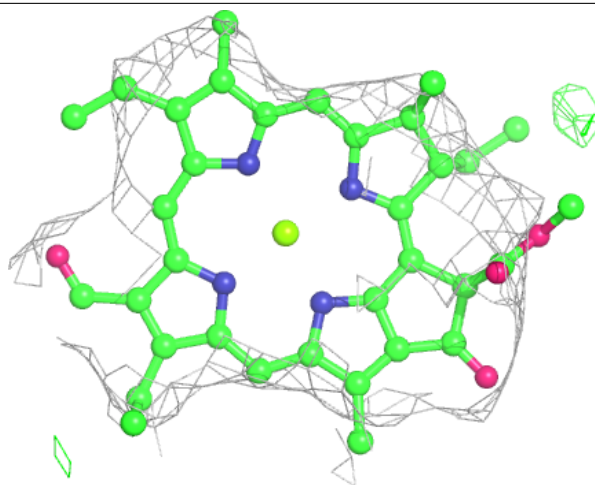
Electron density around CHL 4 316:

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



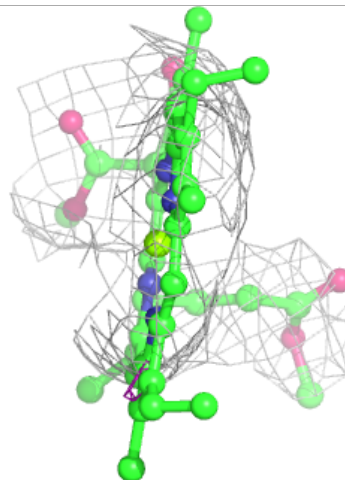
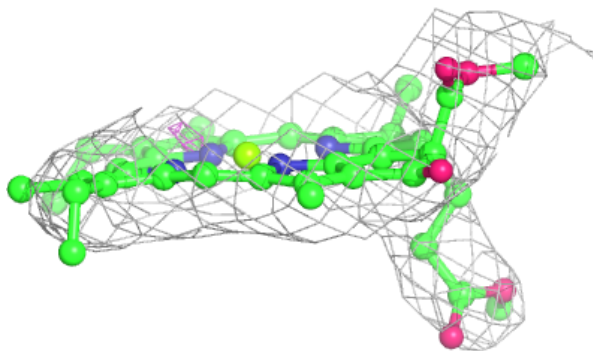
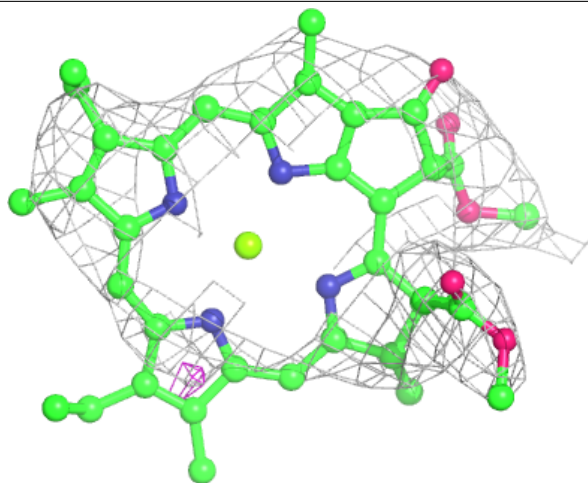
Electron density around CHL 4 317:

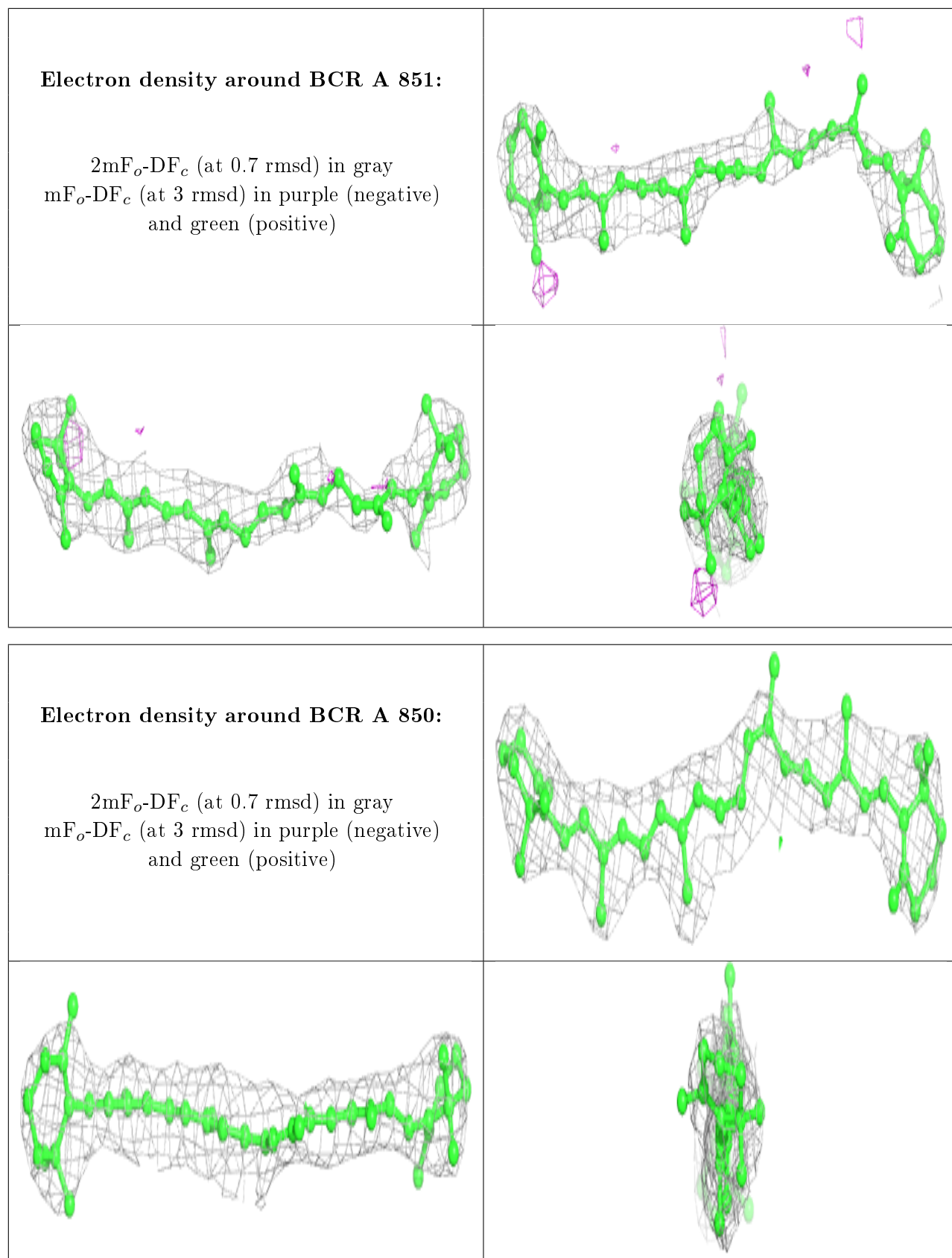
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 1 511:

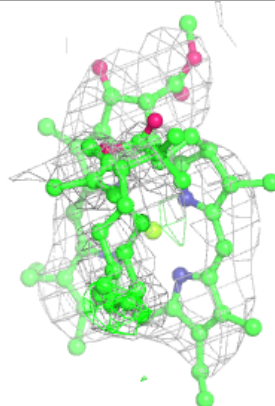
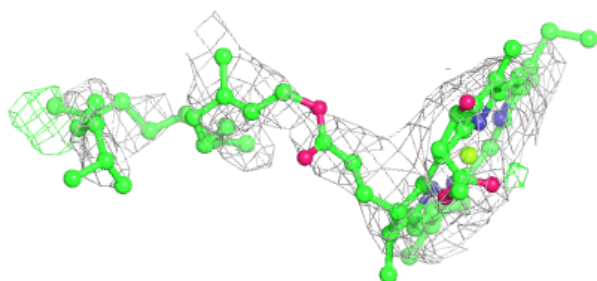
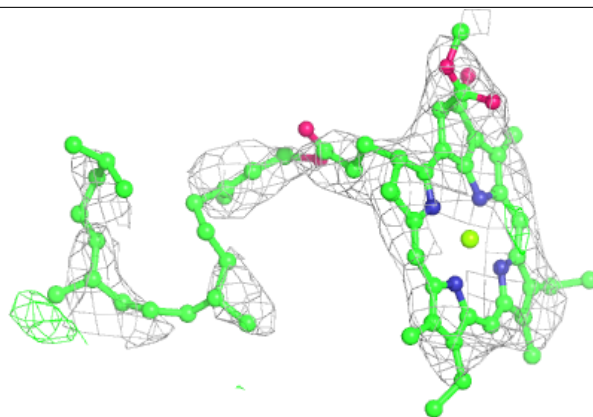
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



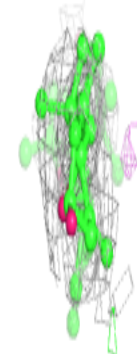
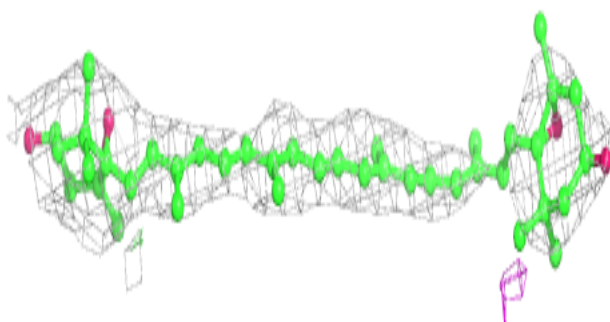
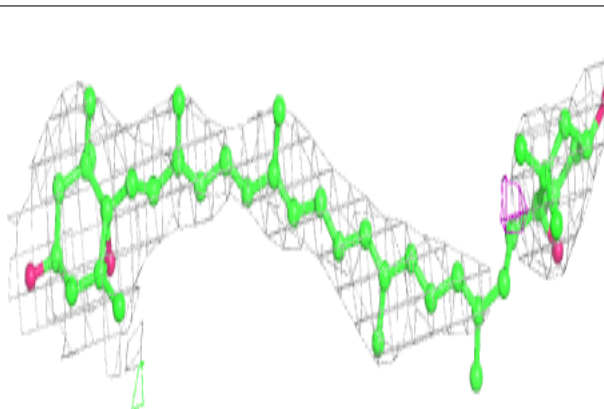


Electron density around CLA 1 513:

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

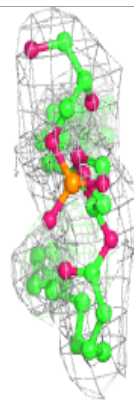
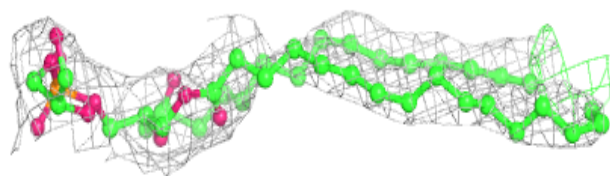
**Electron density around XAT 2 502:**

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

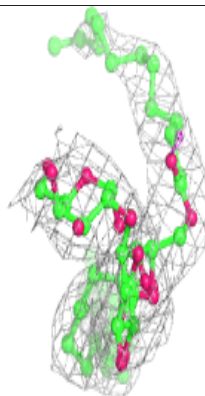
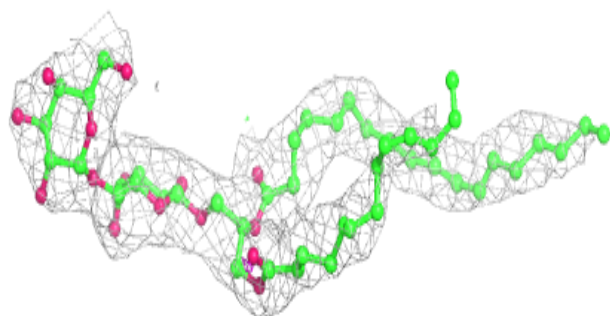
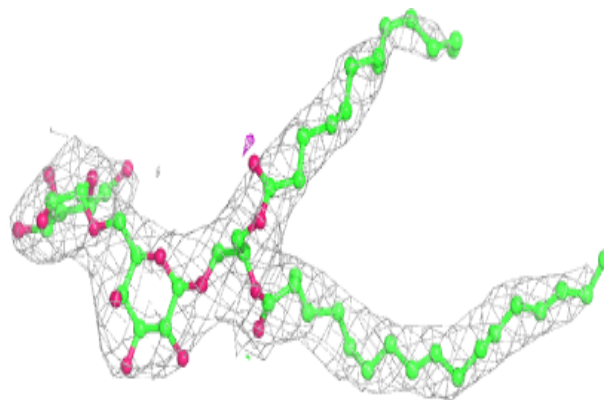


Electron density around LHG 1 517:

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

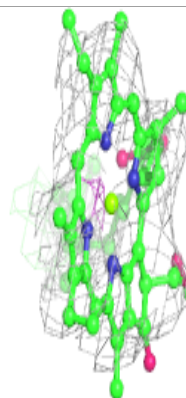
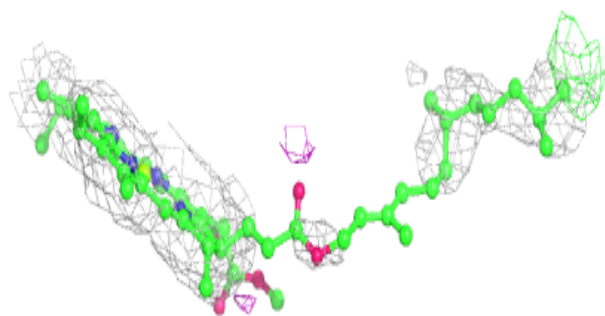
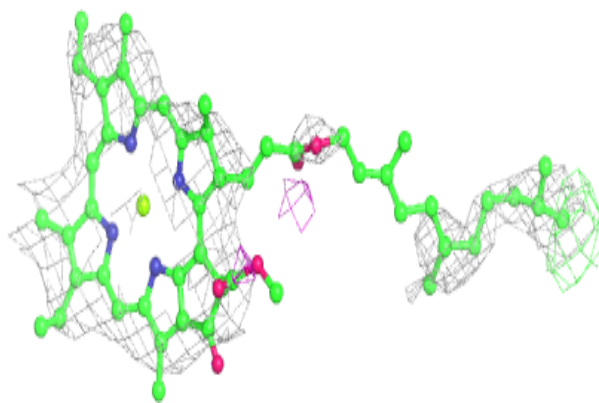
**Electron density around DGD B 854:**

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

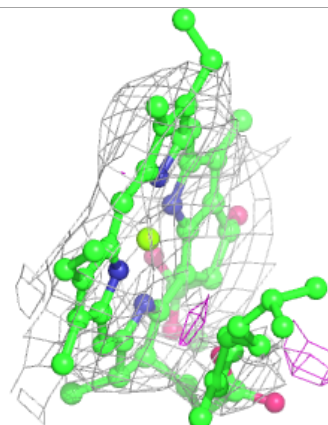
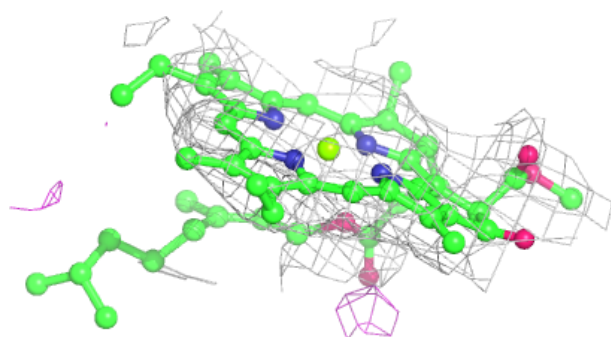
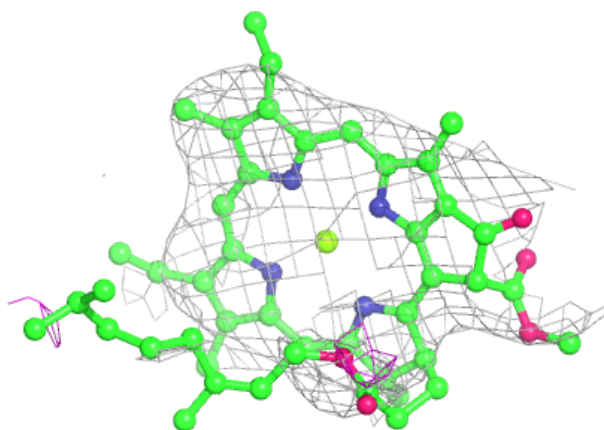


Electron density around CLA H 1000:

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

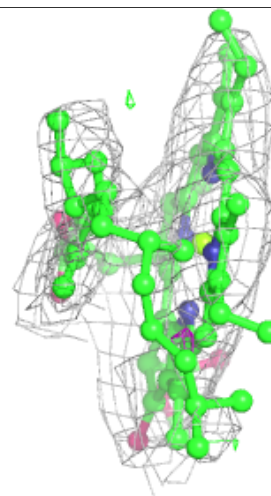
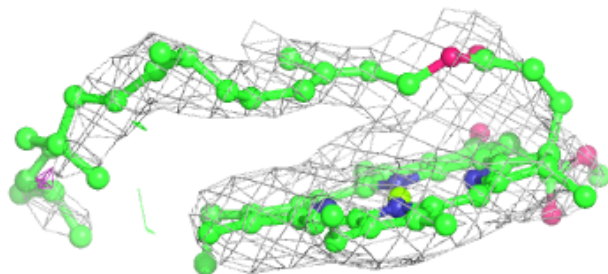
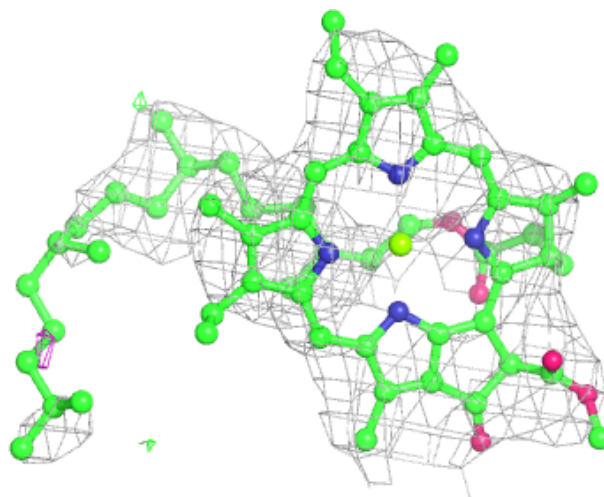
**Electron density around CLA 3 305:**

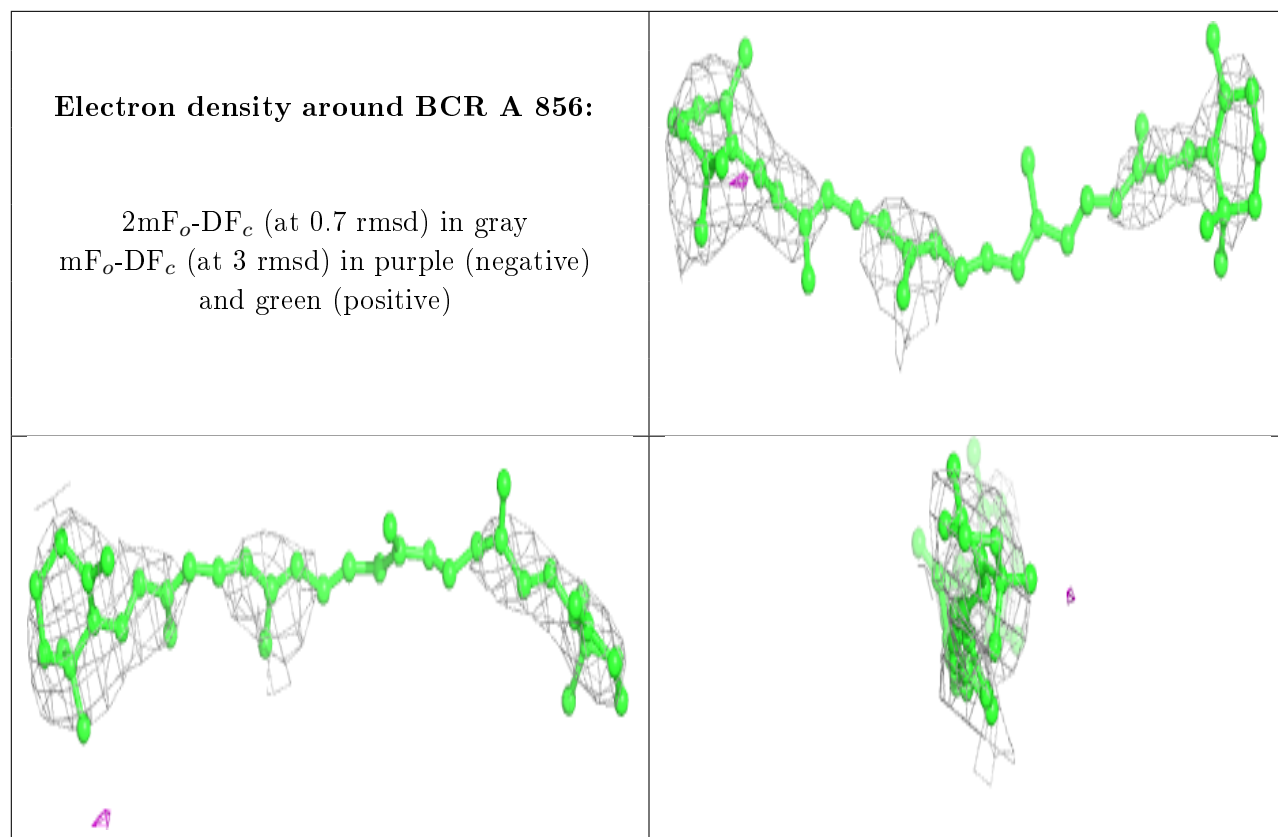
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 817:

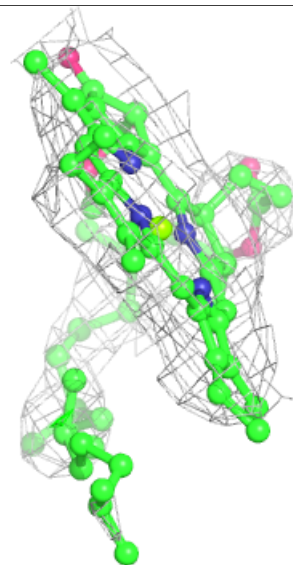
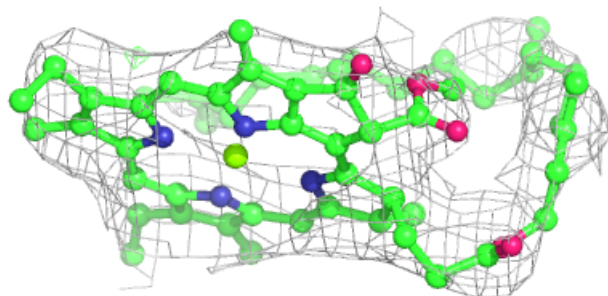
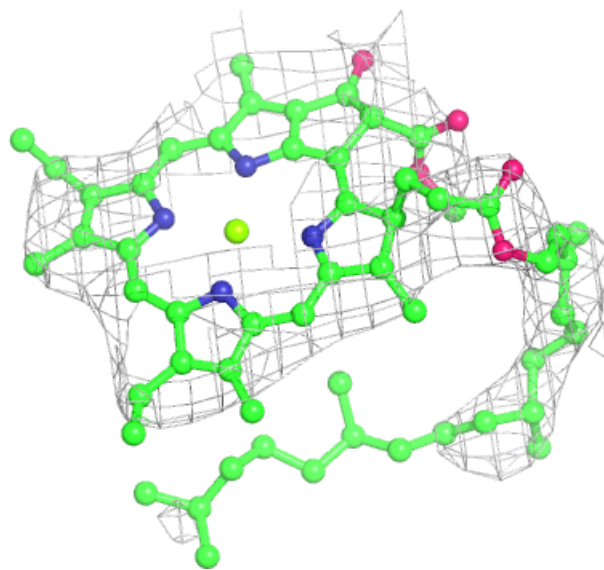
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





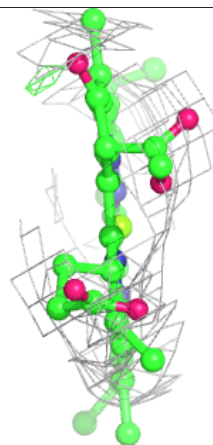
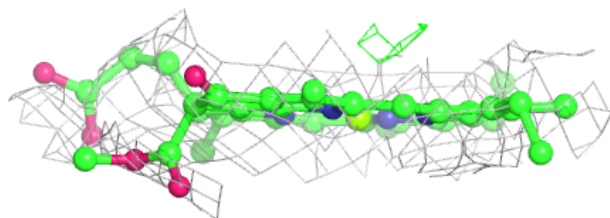
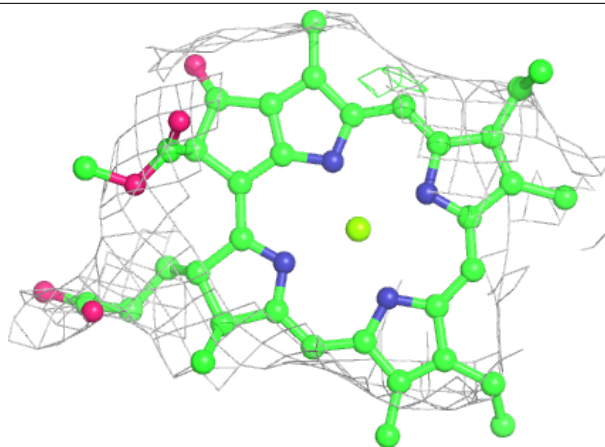
Electron density around CLA 1 508:

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



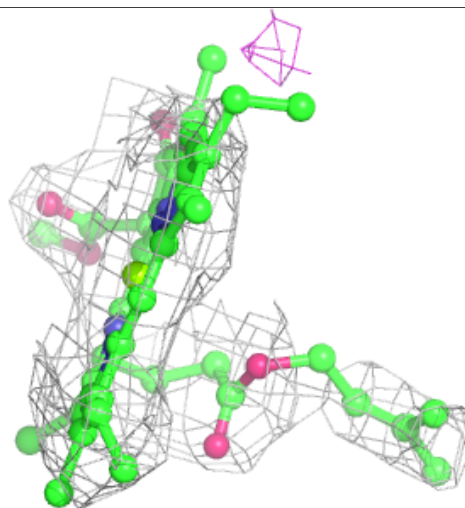
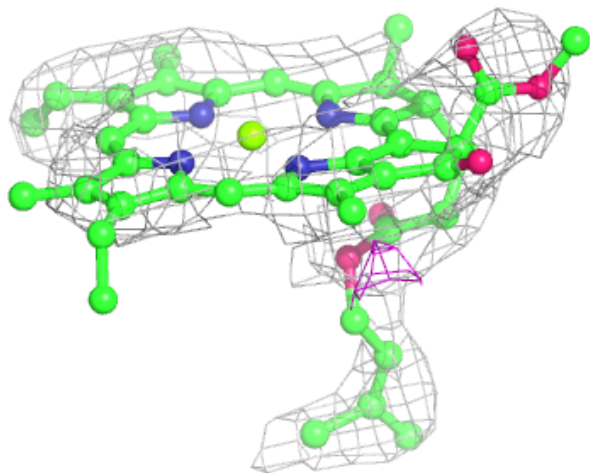
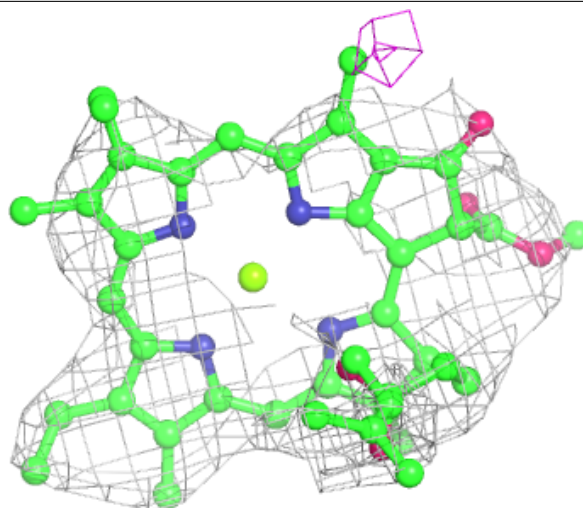
Electron density around CLA 1 515:

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



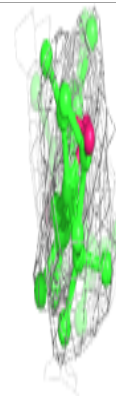
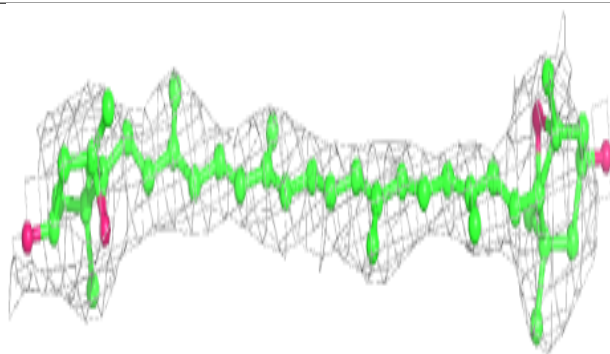
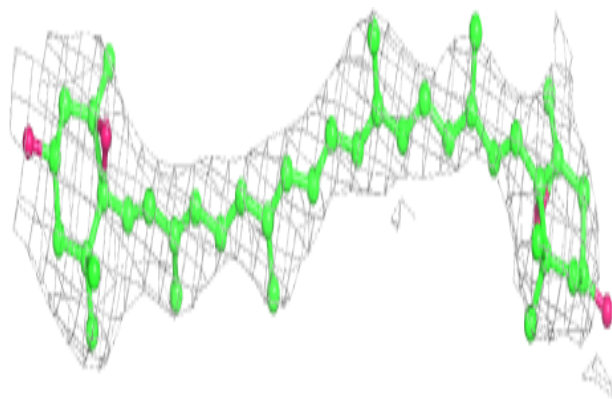
Electron density around CLA L 303:

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

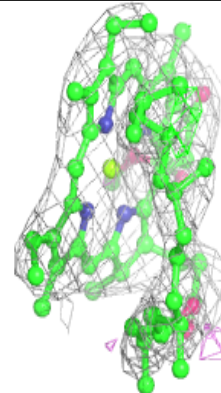
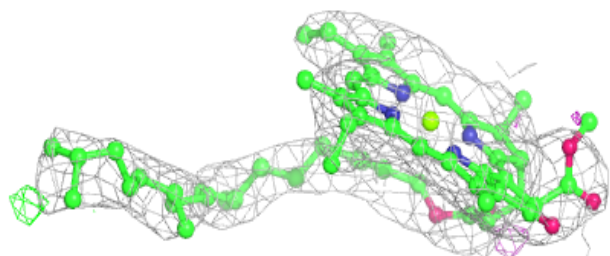
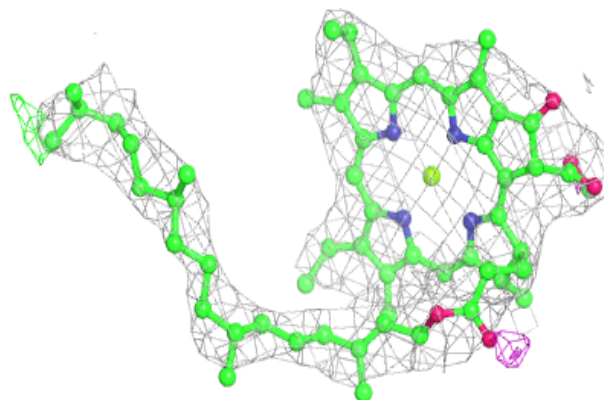


Electron density around XAT 4 303:

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

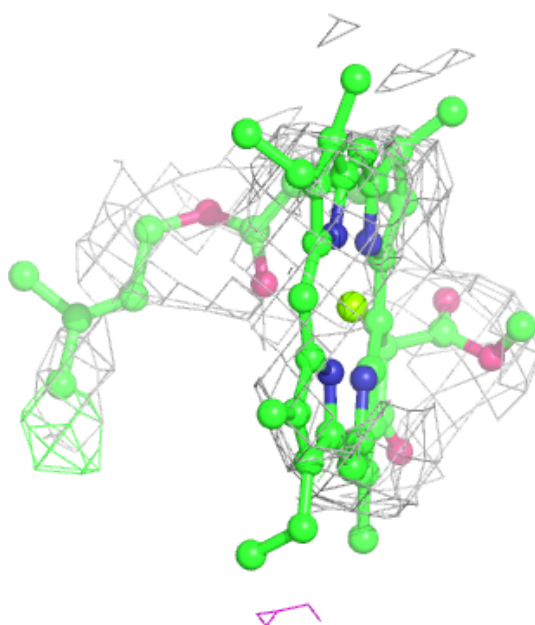
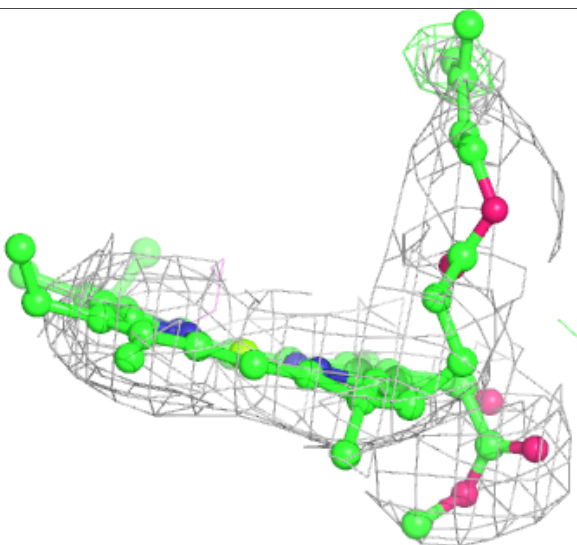
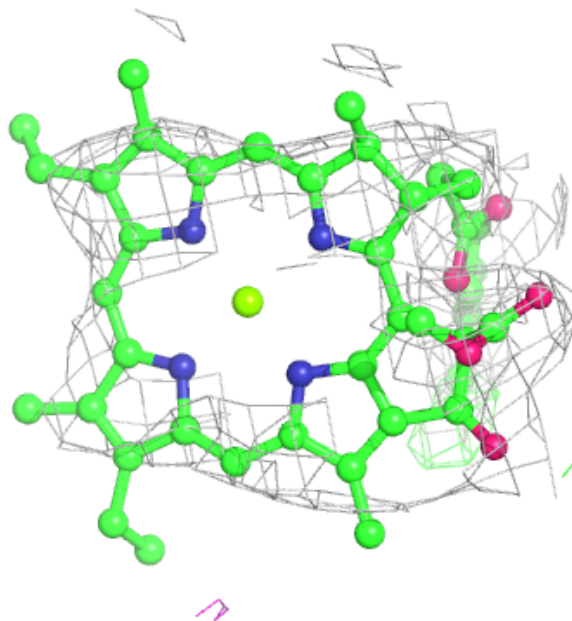
**Electron density around CLA 1 507:**

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



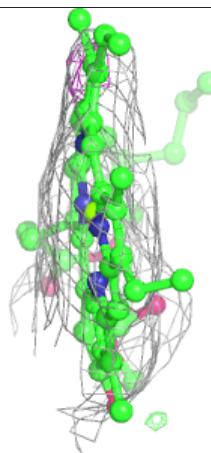
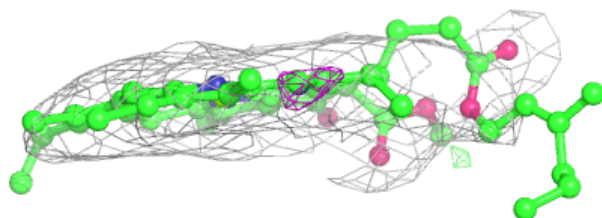
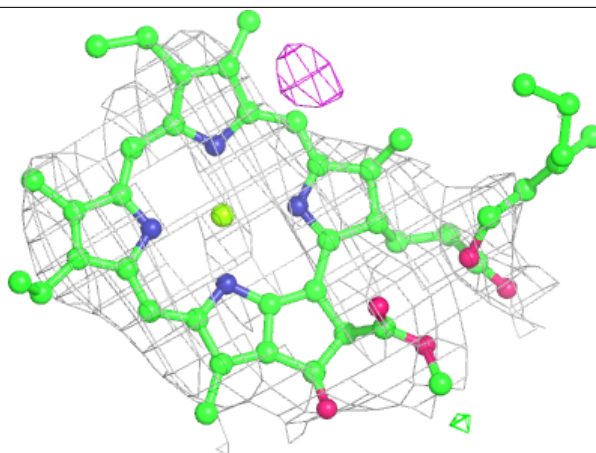
Electron density around CLA 3 310:

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

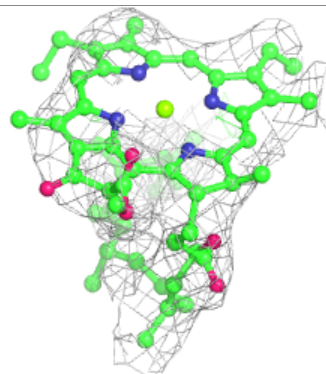
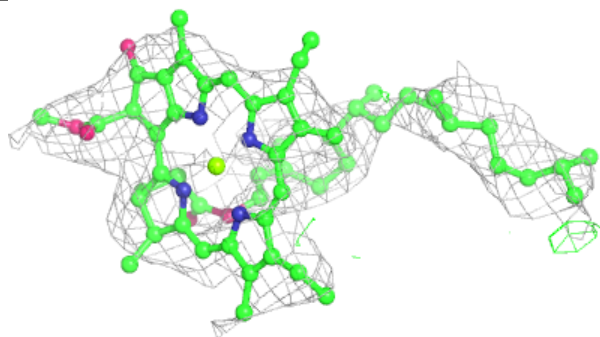
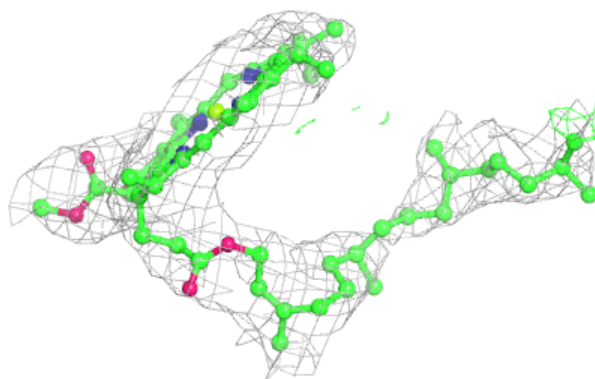


Electron density around CLA 3 306:

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

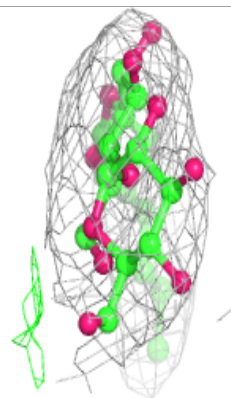
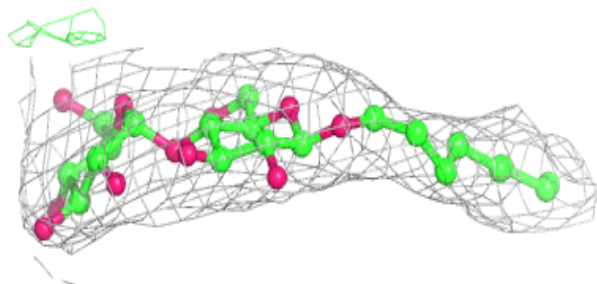
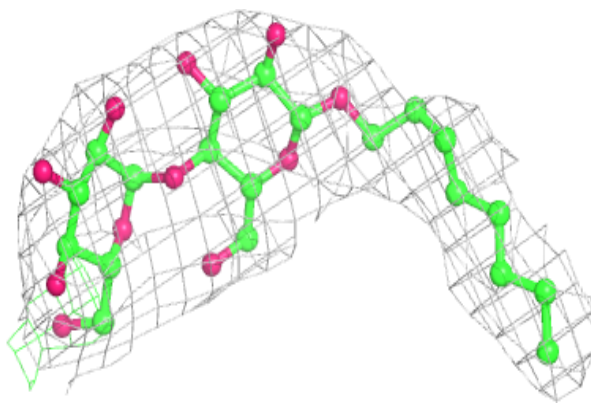
**Electron density around CLA G 204:**

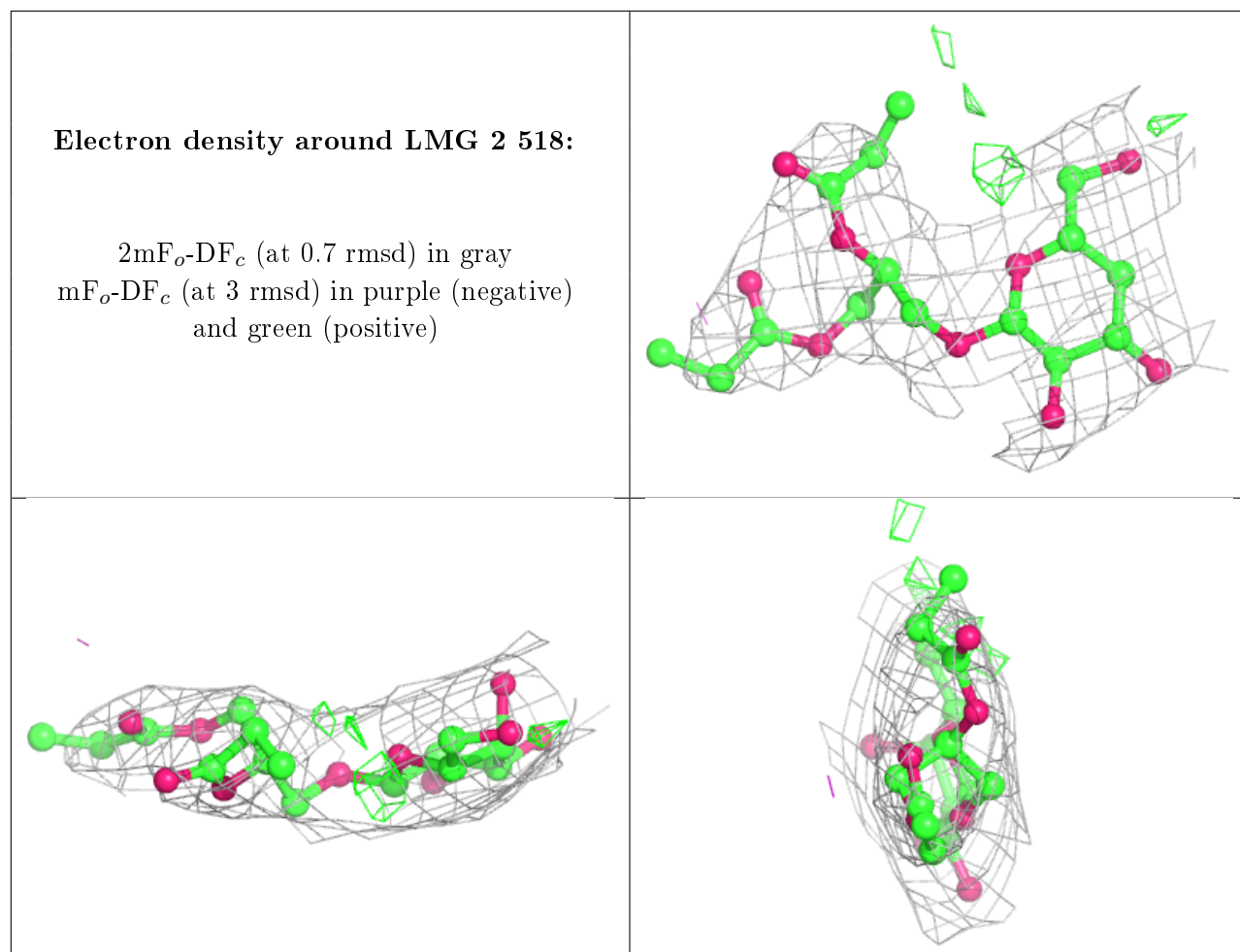
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around LMT B 855:

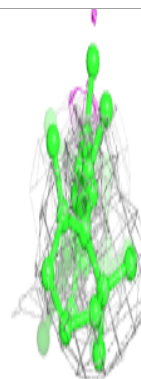
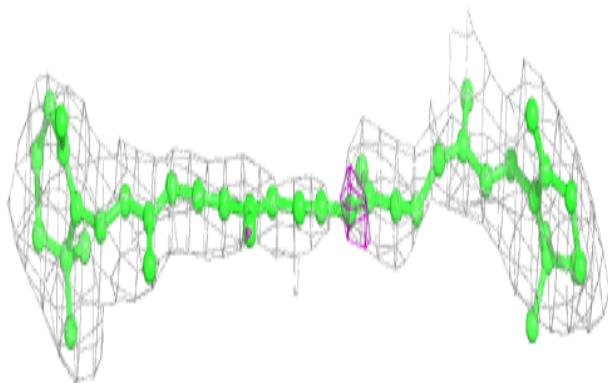
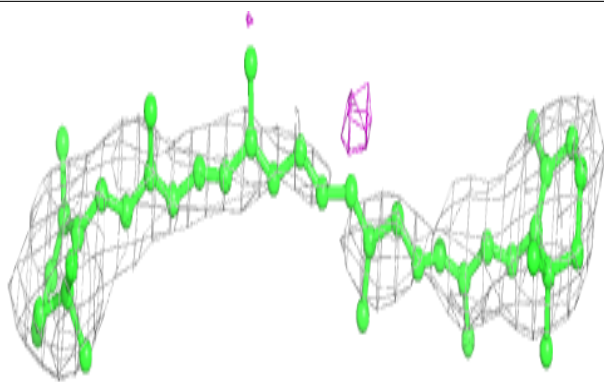
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



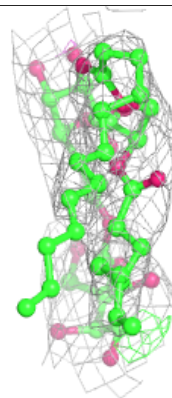
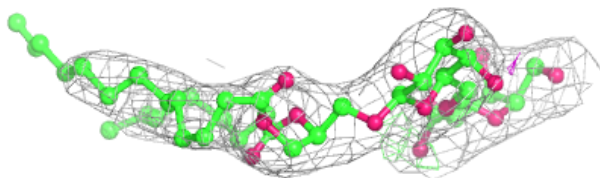
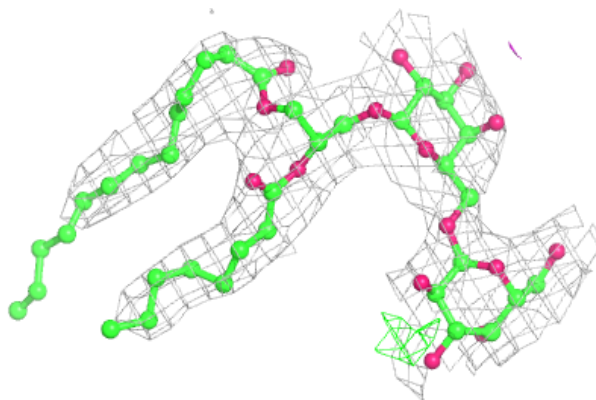


Electron density around BCR L 306:

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

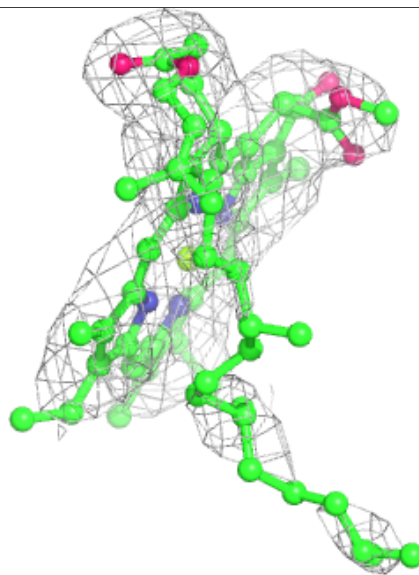
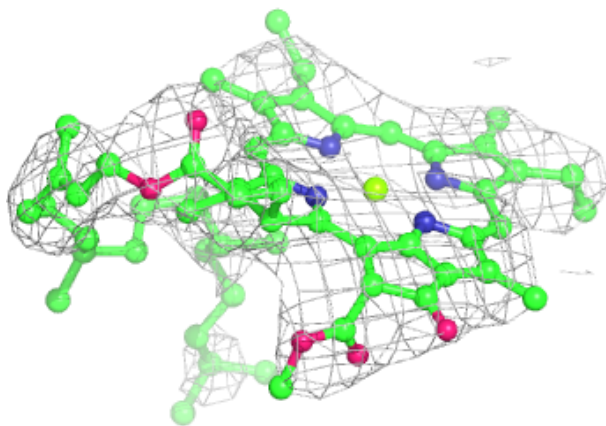
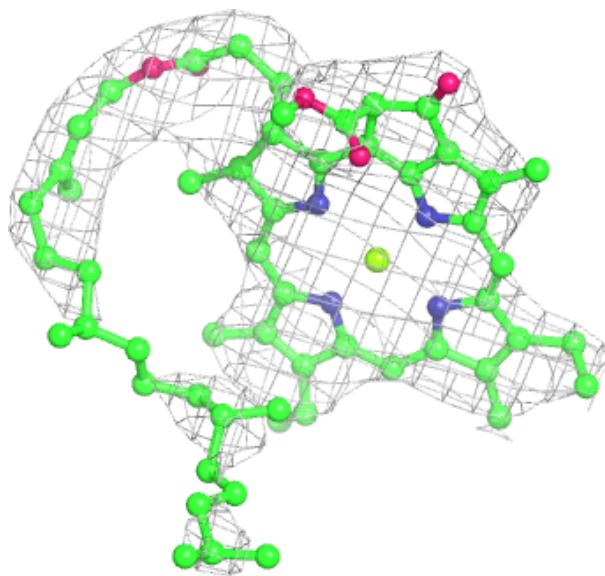
**Electron density around DGD 4 319:**

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



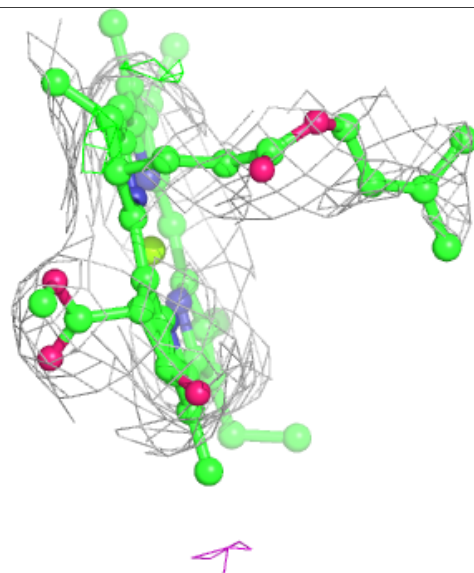
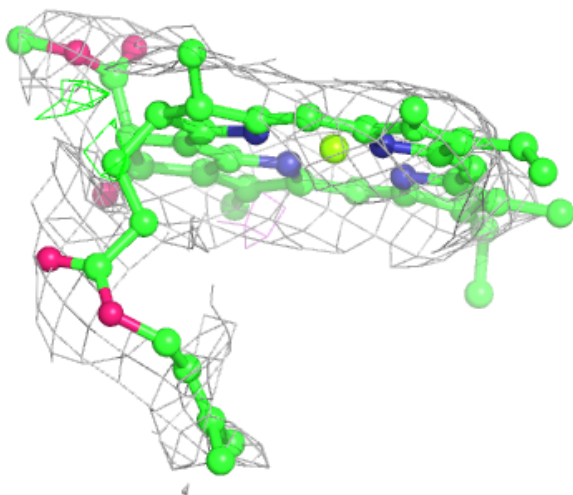
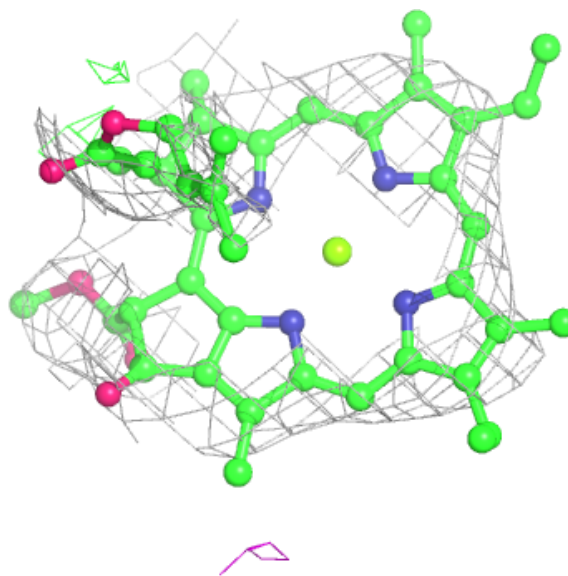
Electron density around CLA A 813:

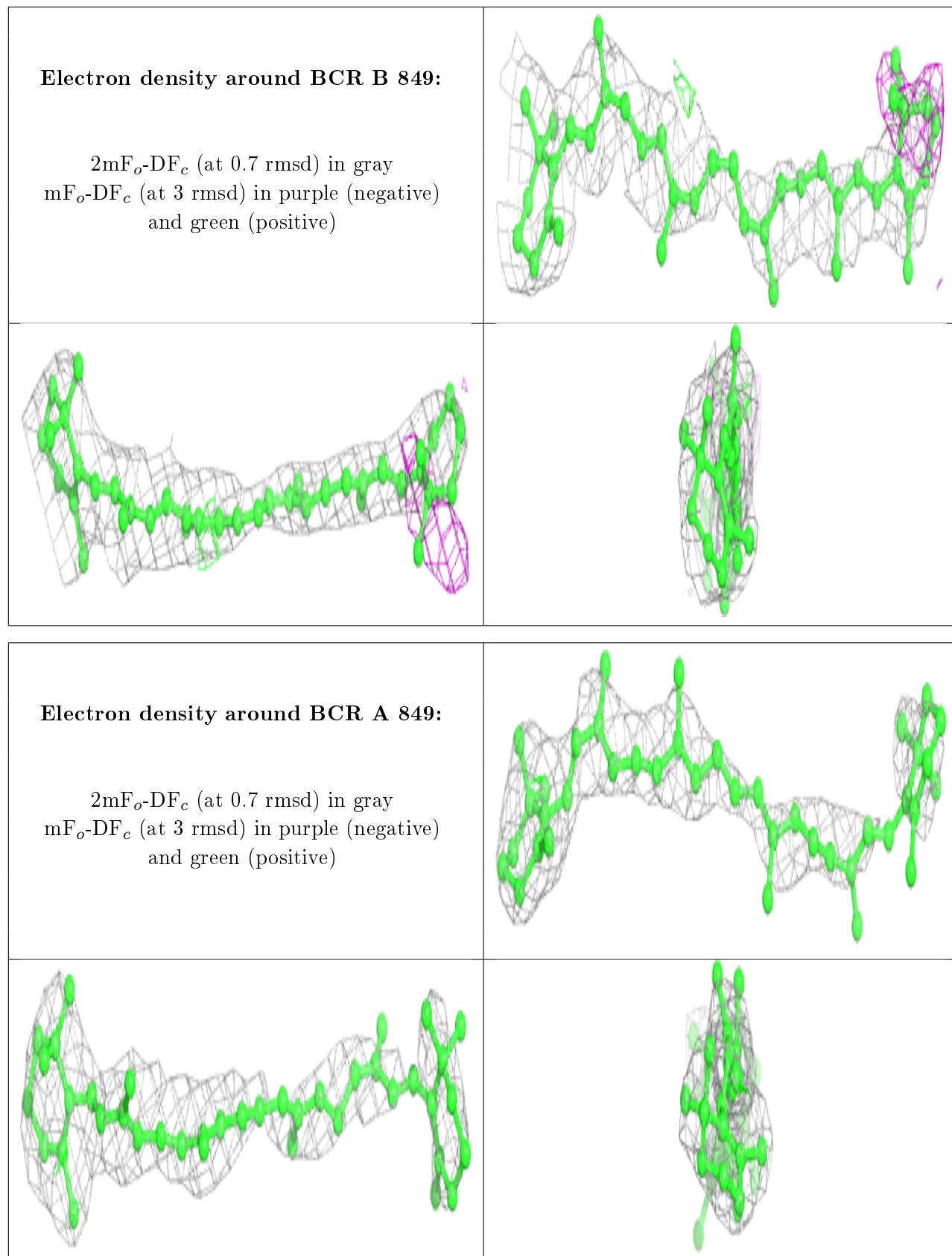
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 1 509:

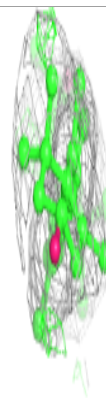
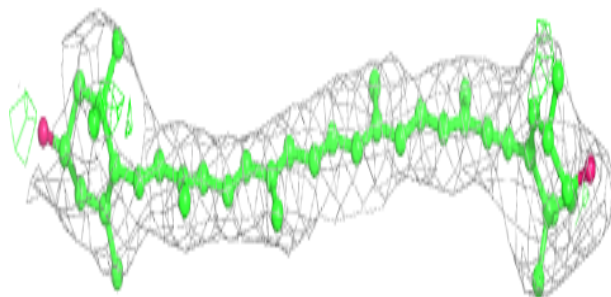
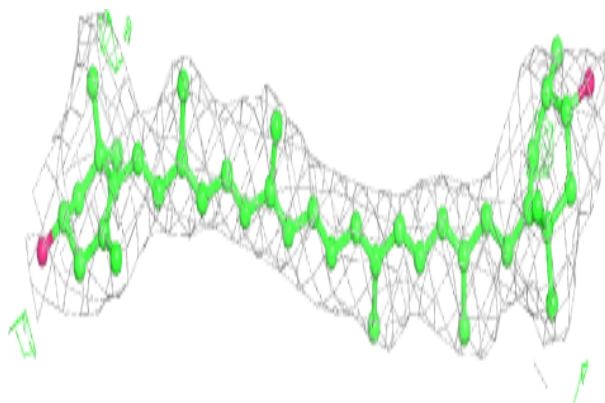
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





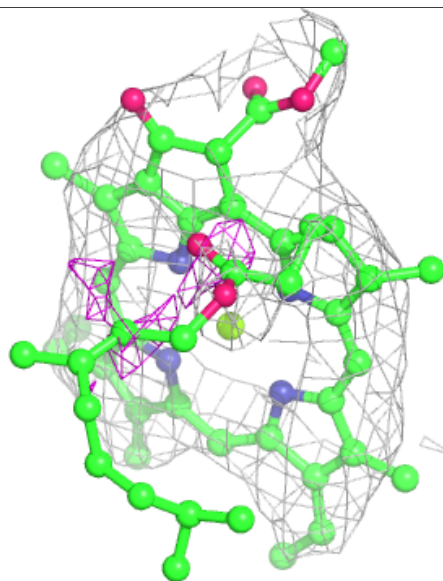
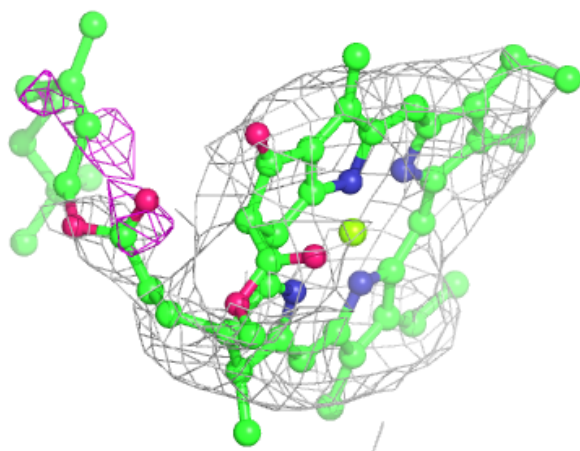
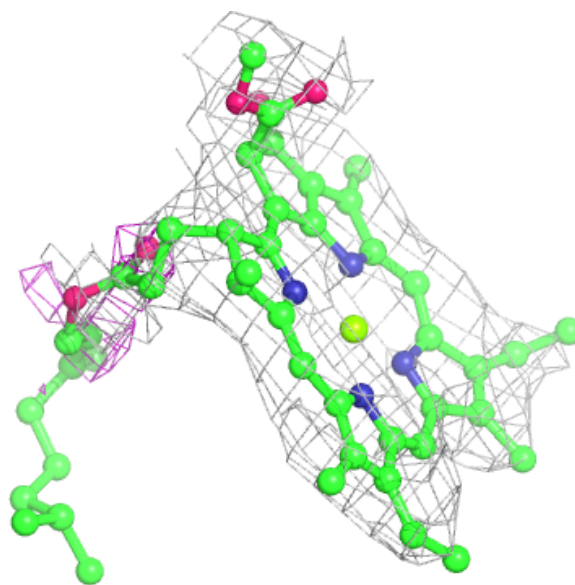
Electron density around ZEX F 301:

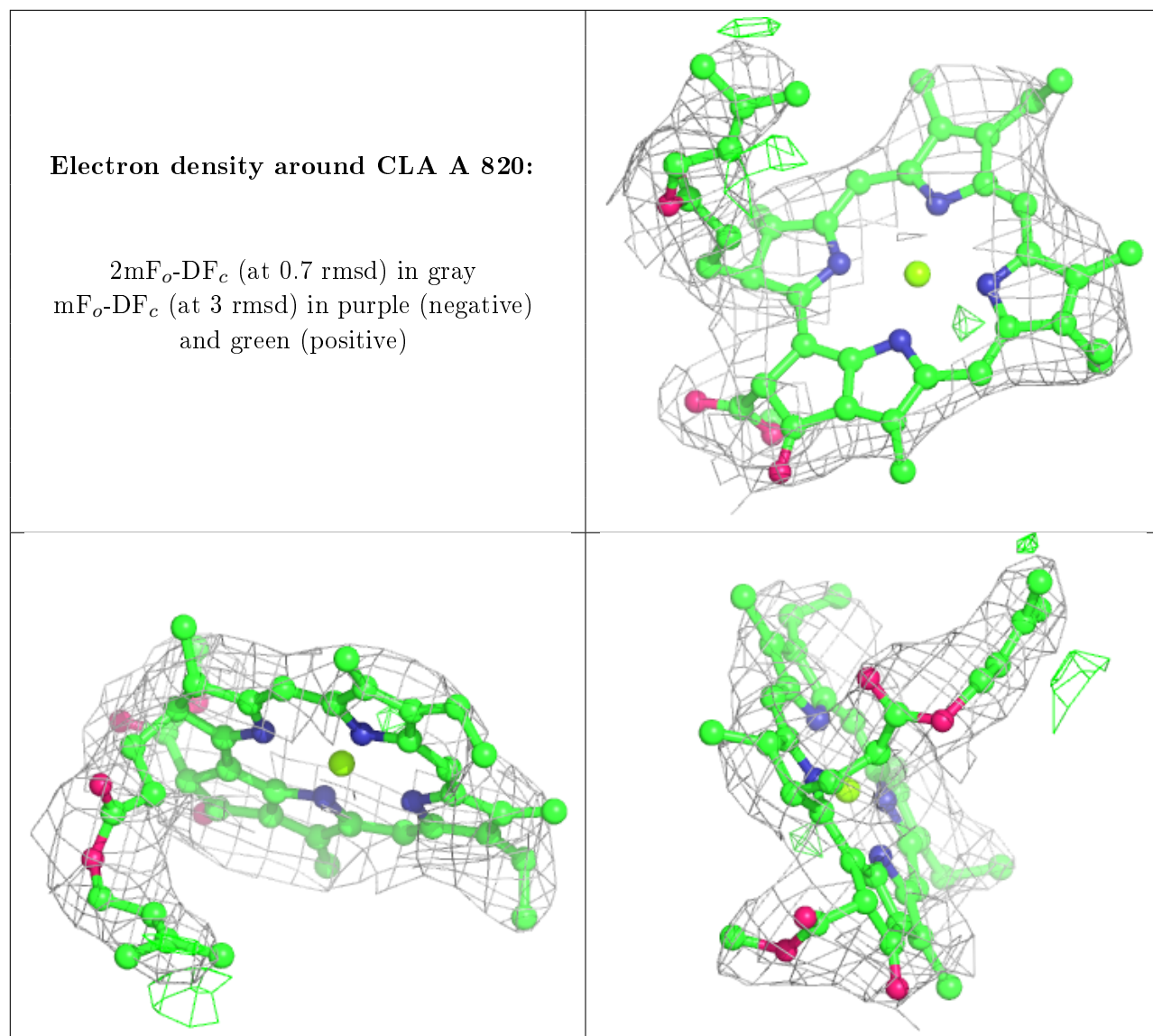
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 835:

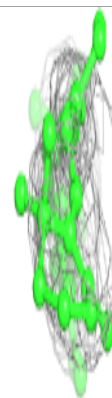
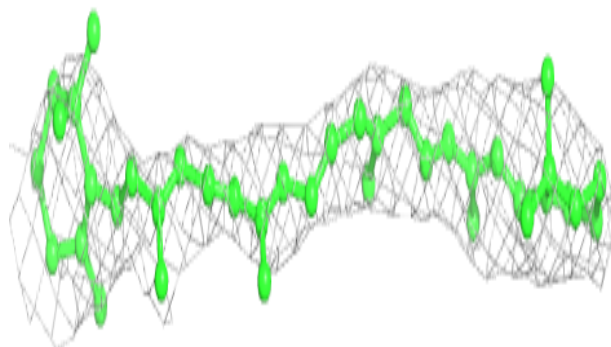
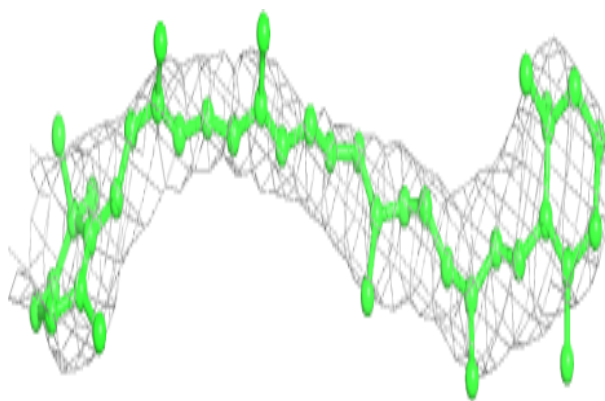
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



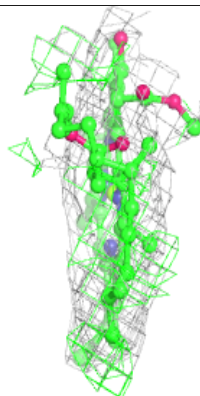
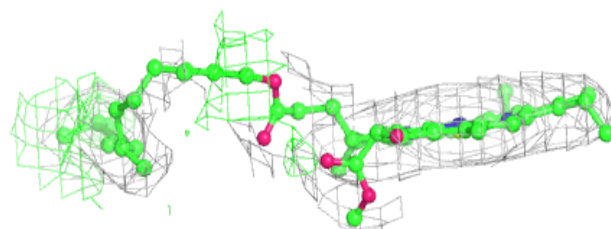
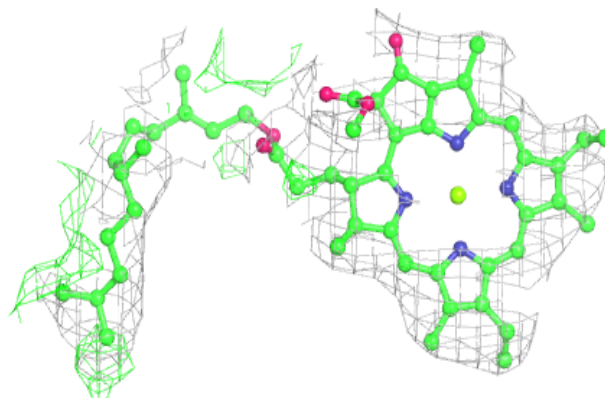


Electron density around BCR 4 301:

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

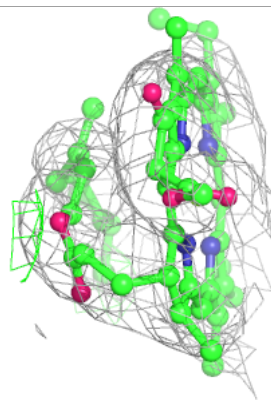
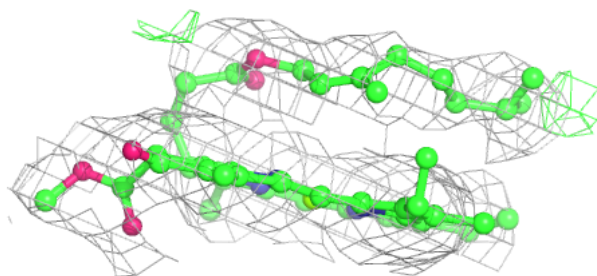
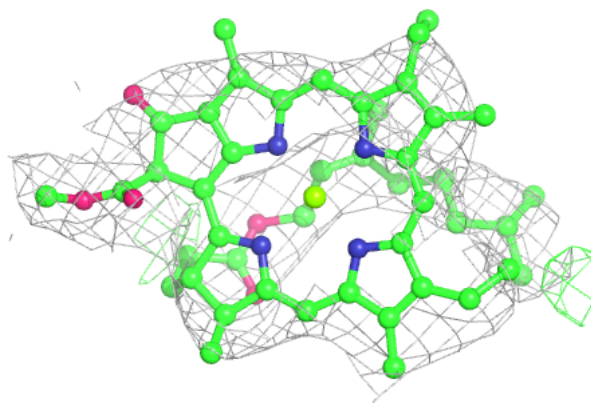
**Electron density around CLA 1 516:**

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

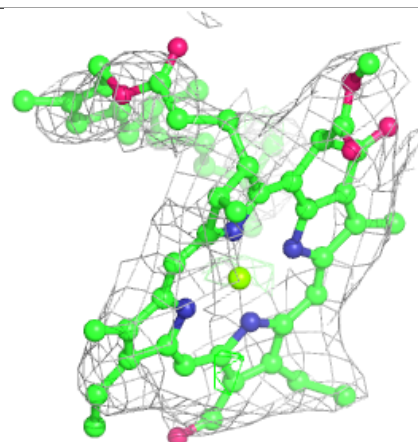
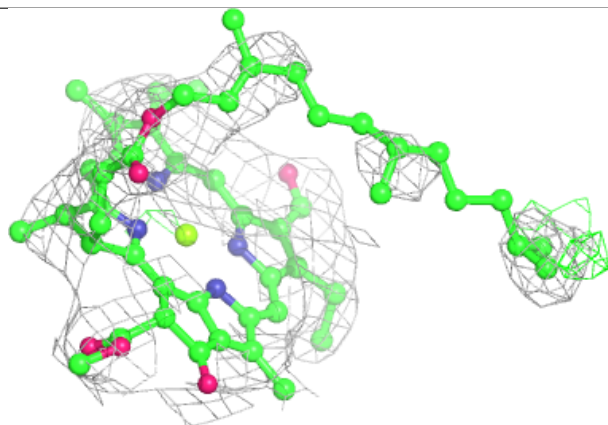
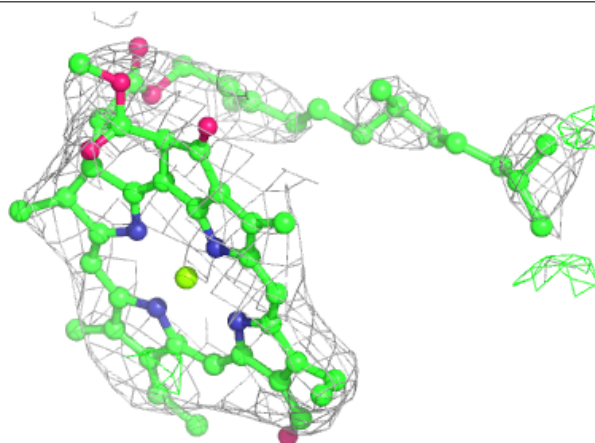


Electron density around CLA A 812:

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

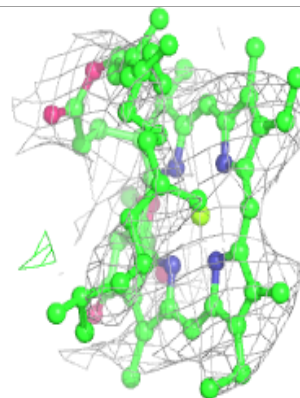
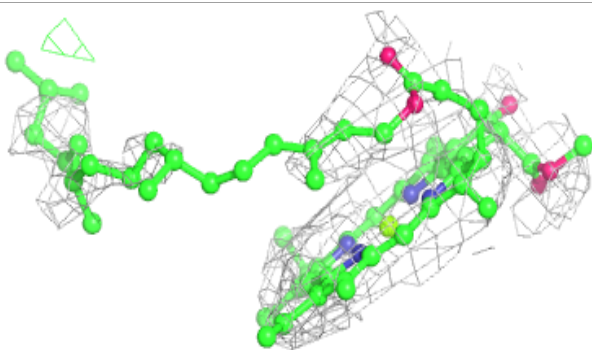
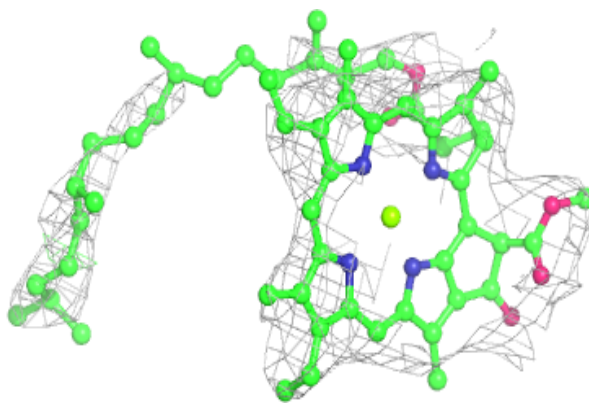
**Electron density around CHL 1 514:**

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

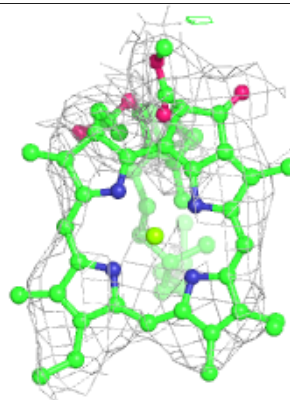
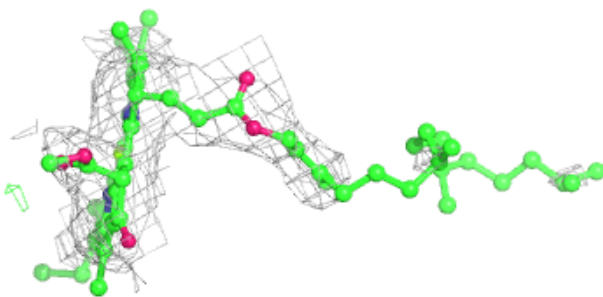
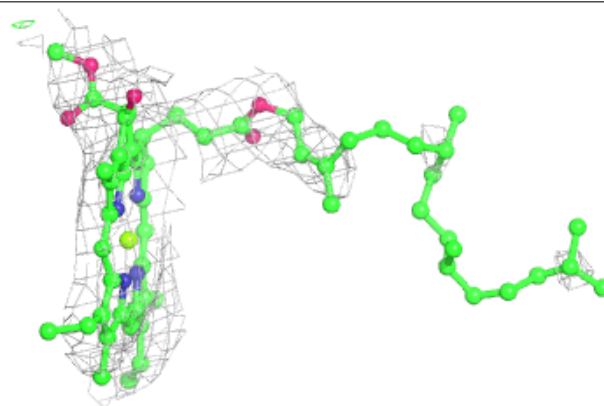


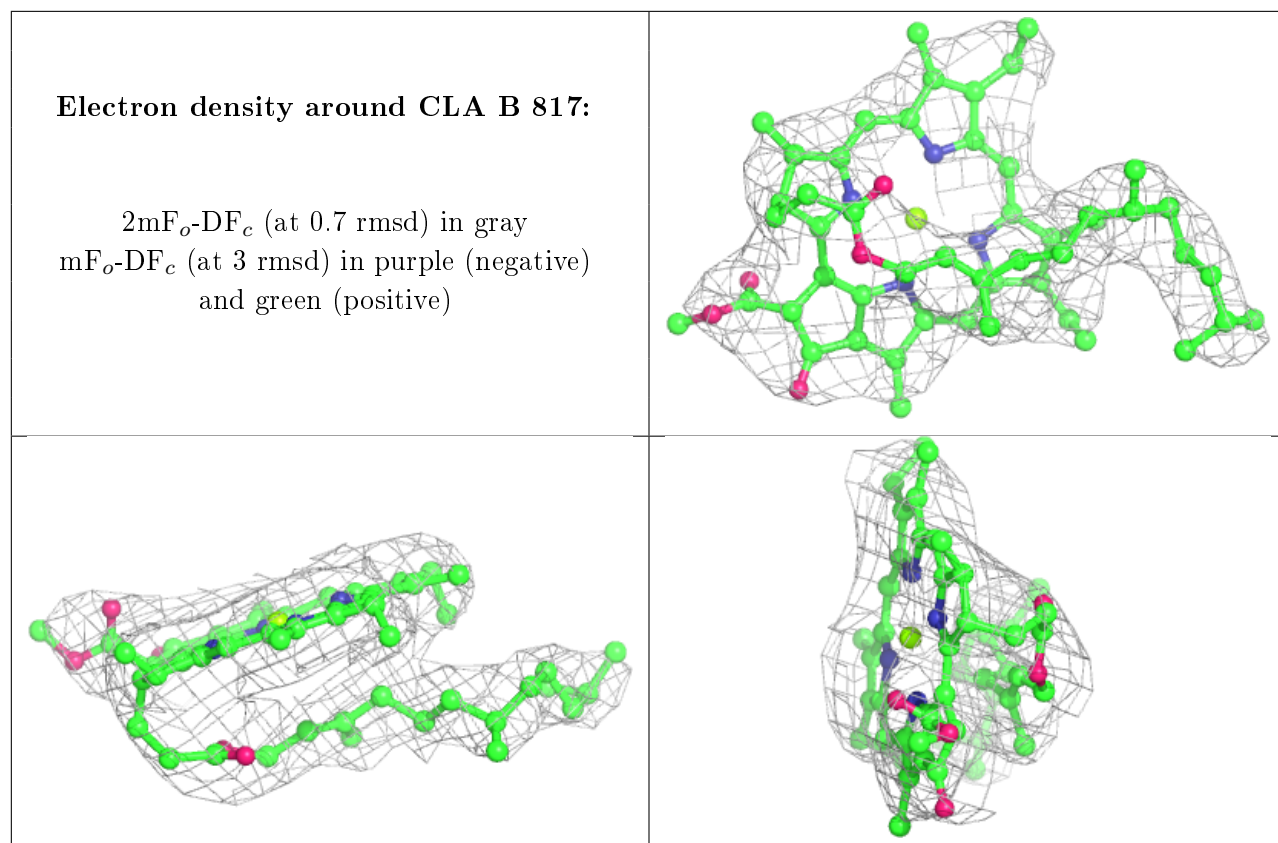
Electron density around CLA 3 308:

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

**Electron density around CLA A 814:**

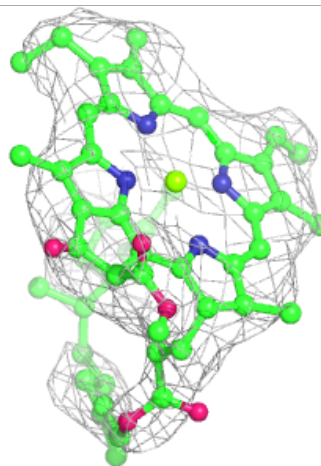
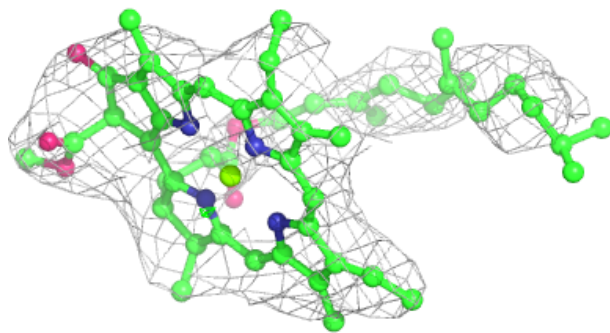
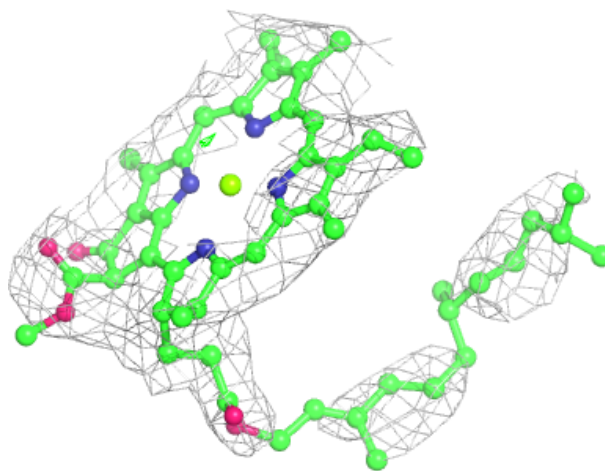
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





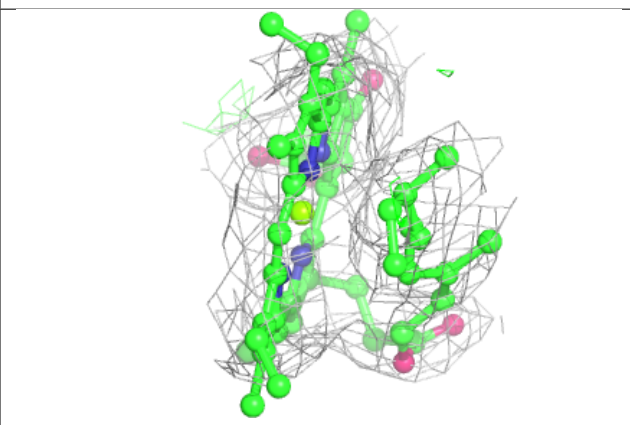
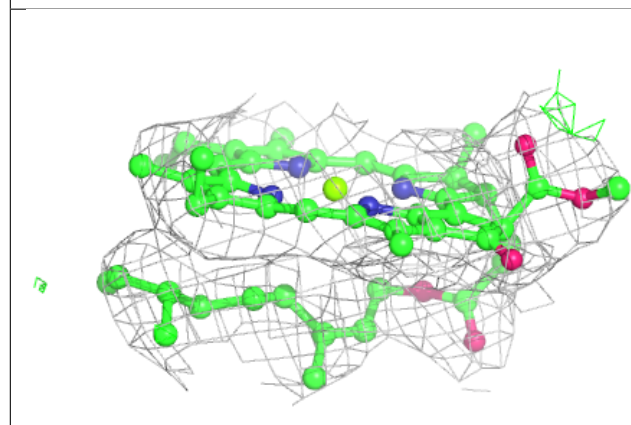
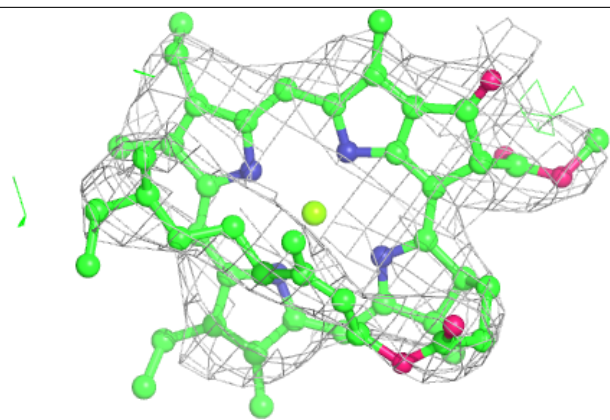
Electron density around CLA A 842:

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

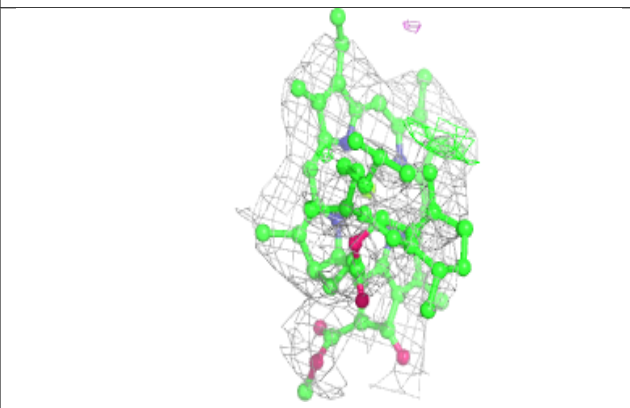
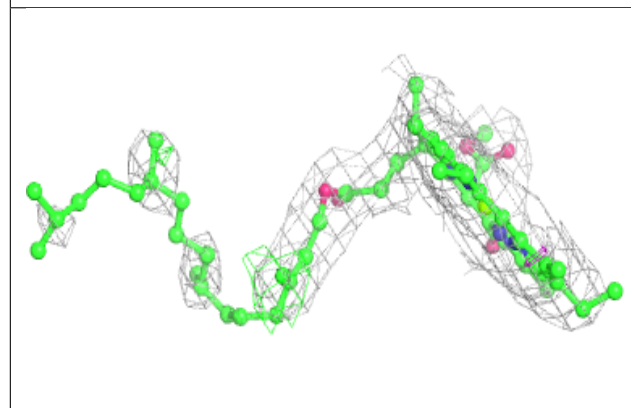
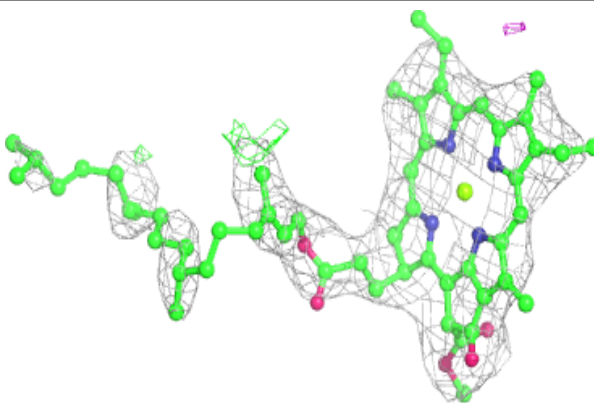


Electron density around CLA A 818:

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

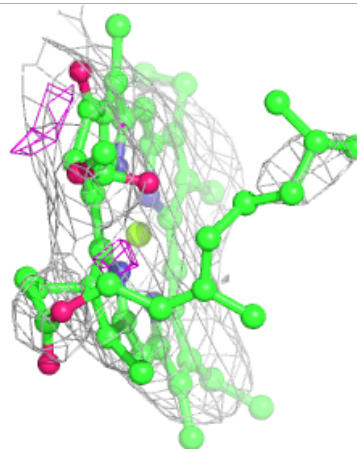
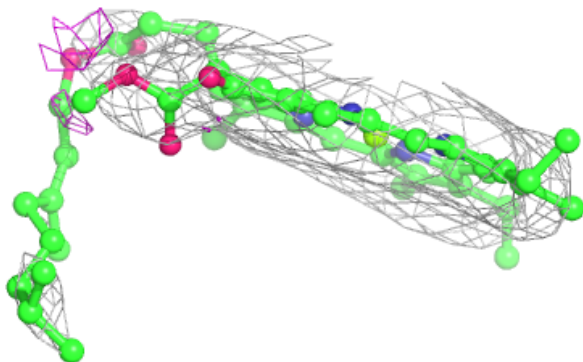
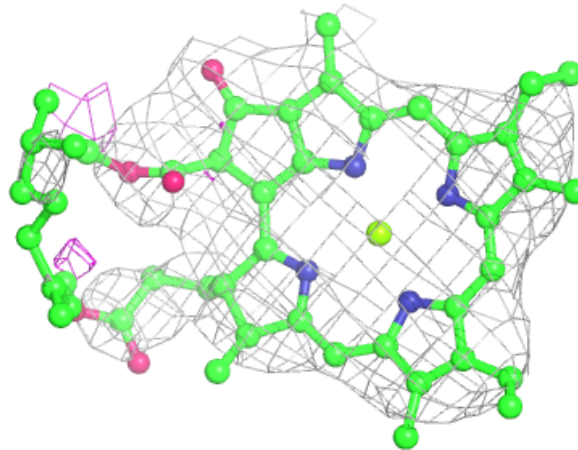
**Electron density around CLA A 831:**

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



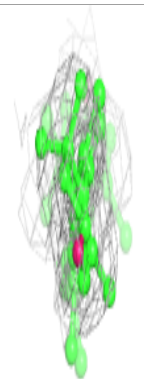
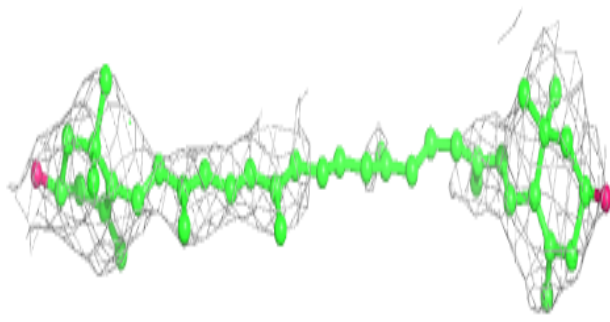
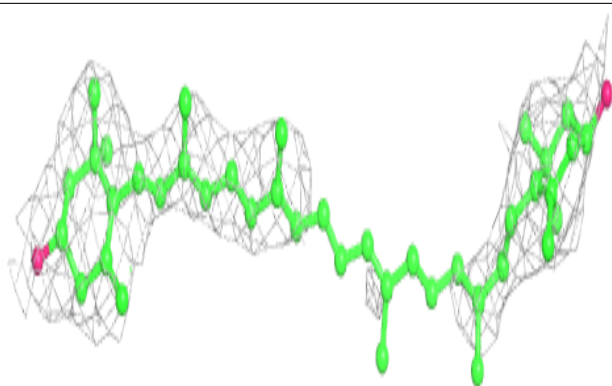
Electron density around CLA 3 309:

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

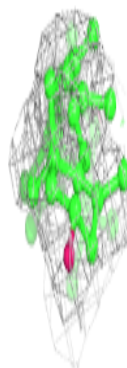
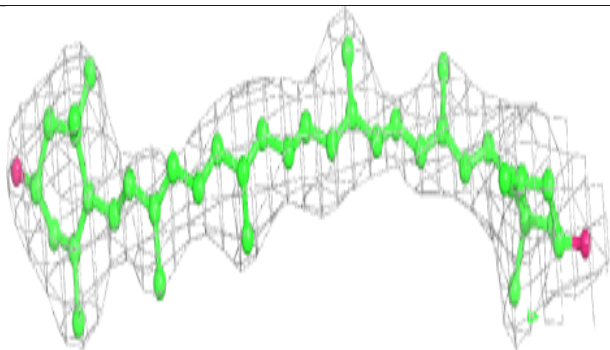
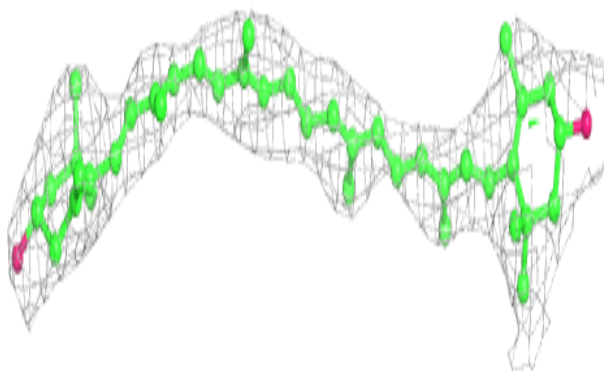


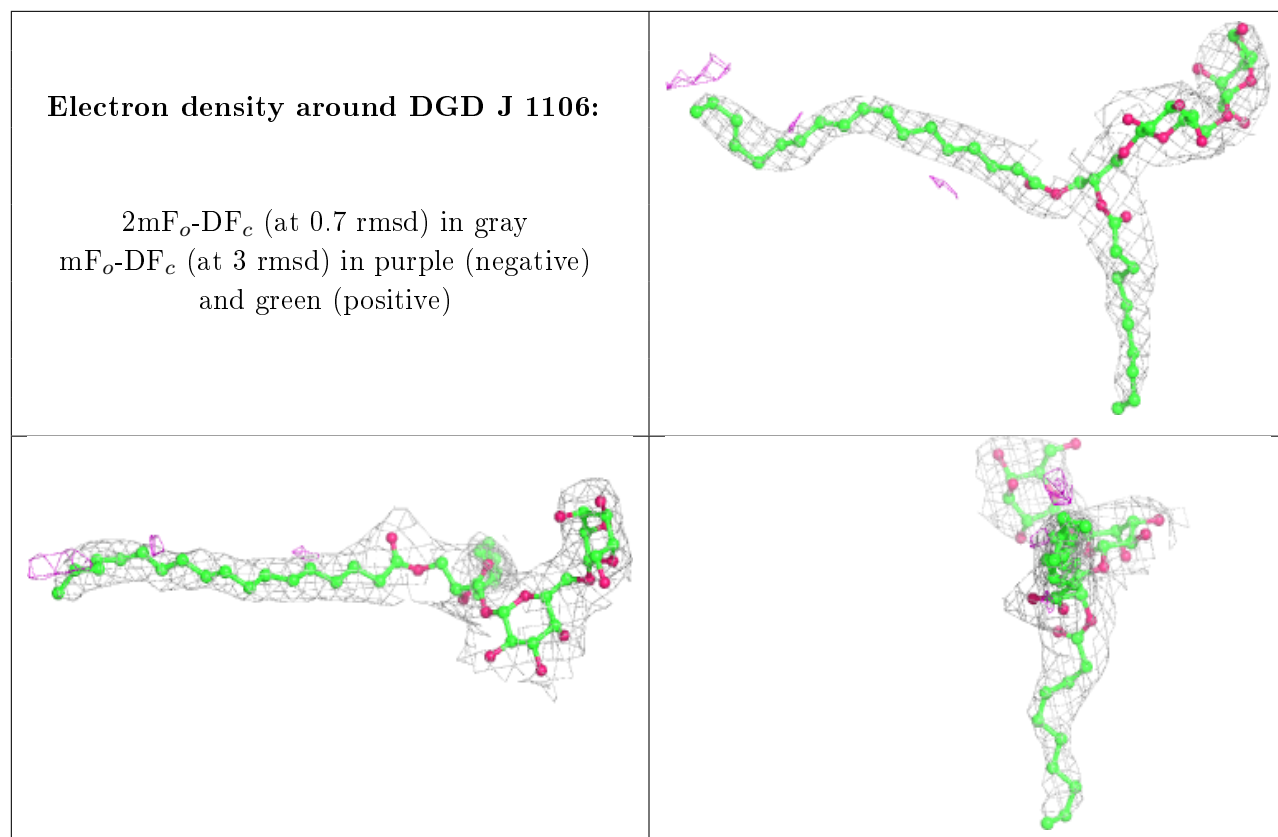
Electron density around LUT 1 502:

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

**Electron density around LUT J 1109:**

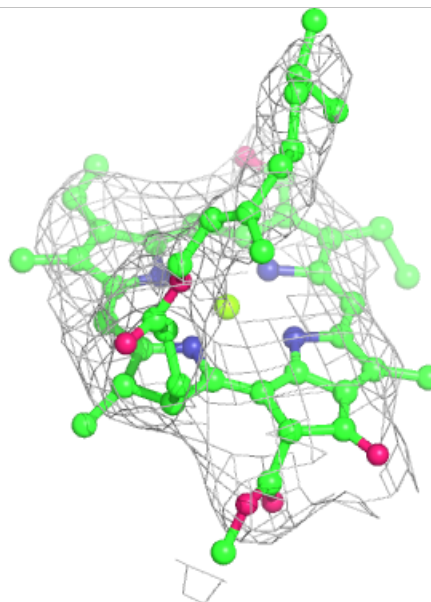
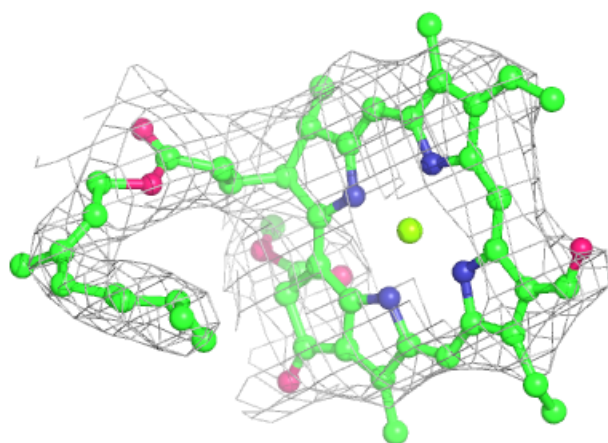
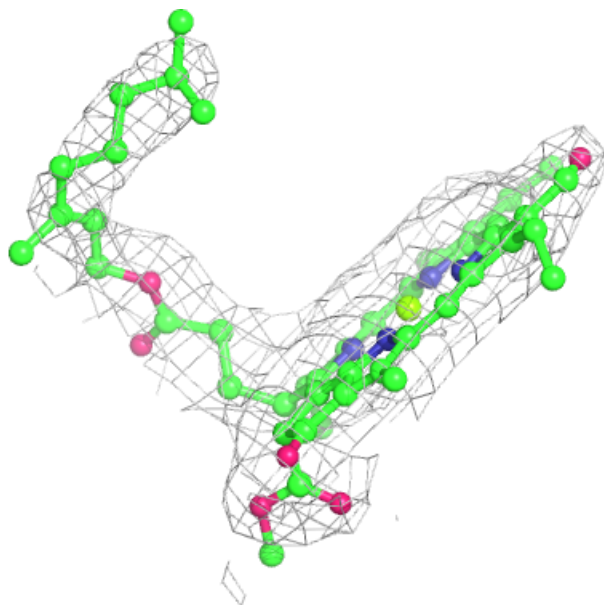
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

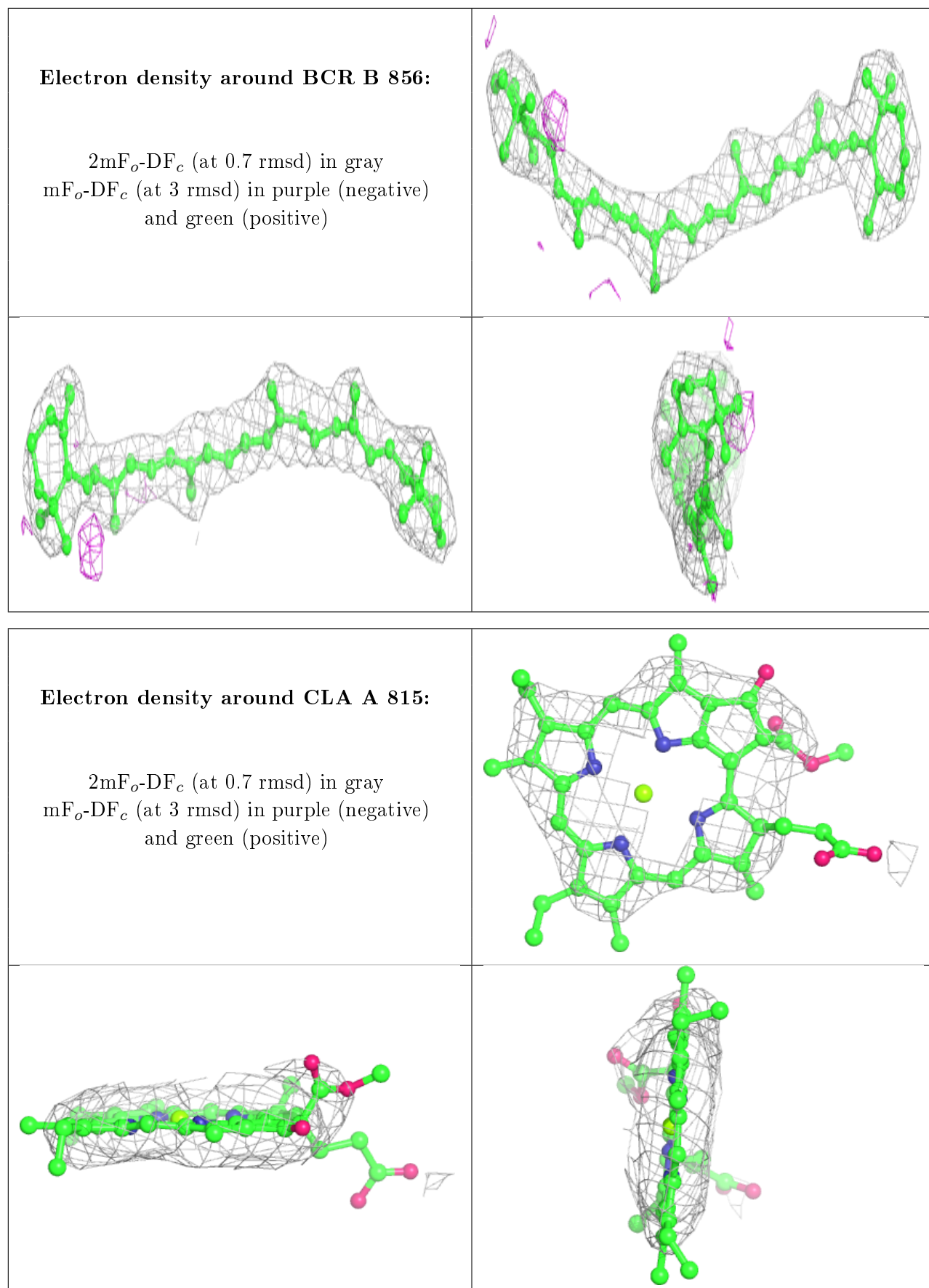




Electron density around CHL 1 521:

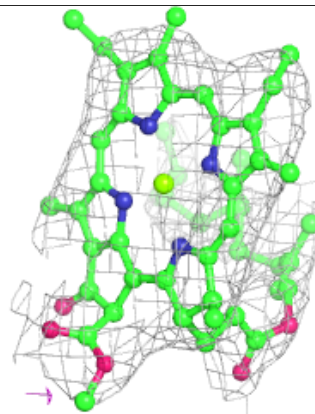
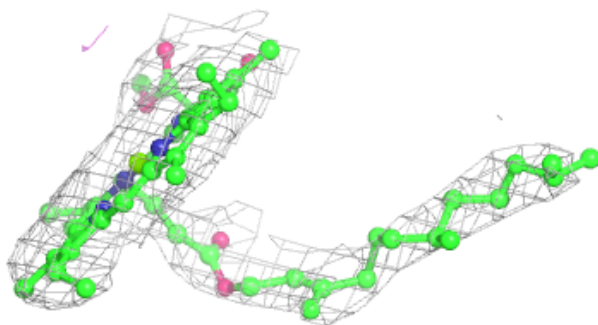
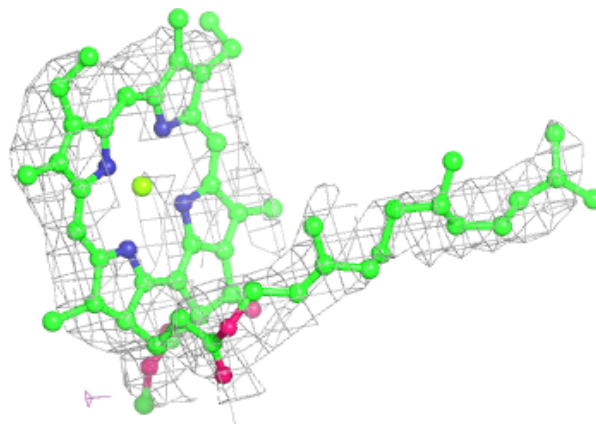
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



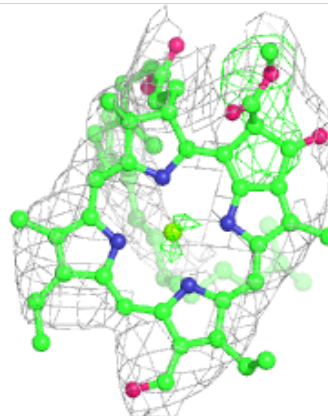
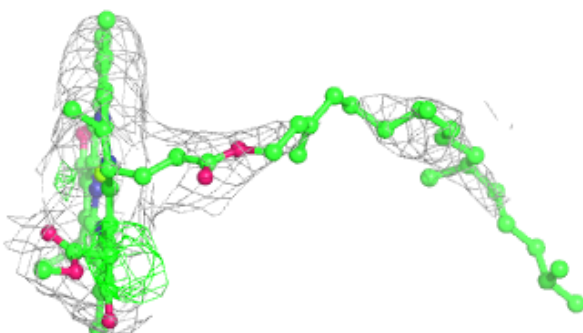
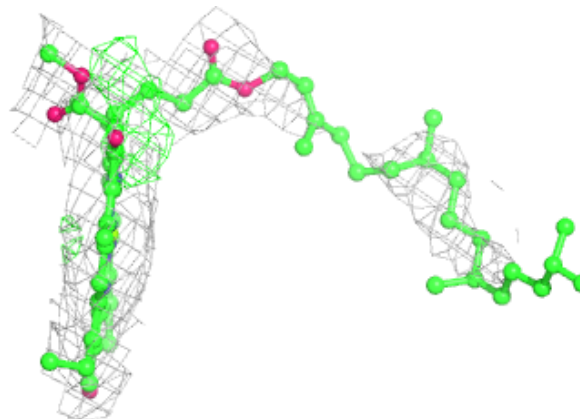


Electron density around CLA 4 310:

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

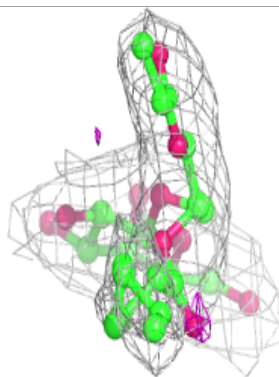
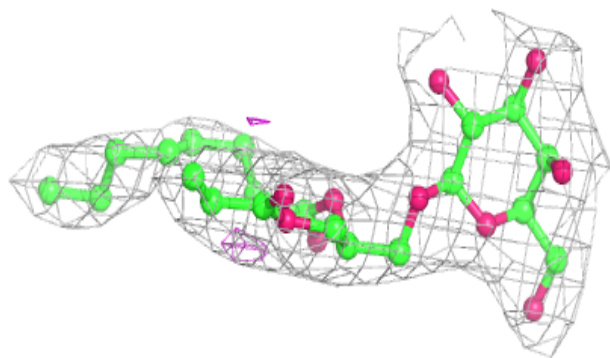
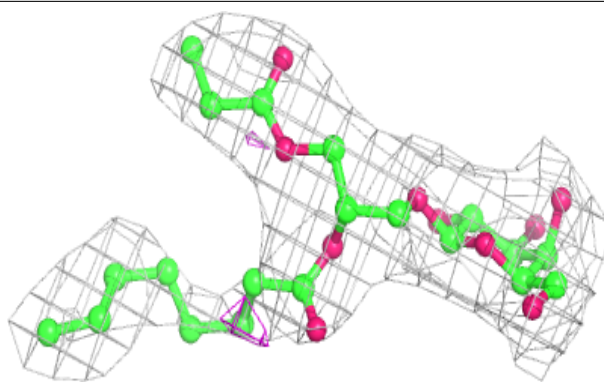
**Electron density around CHL 2 526:**

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

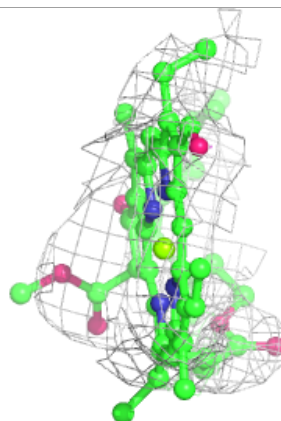
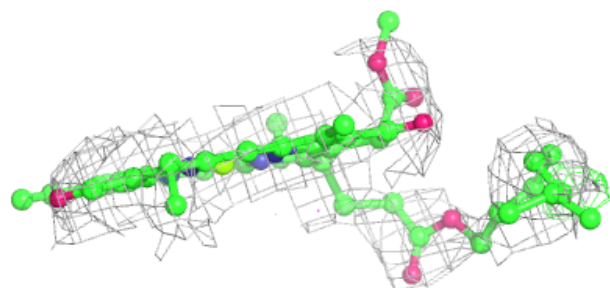
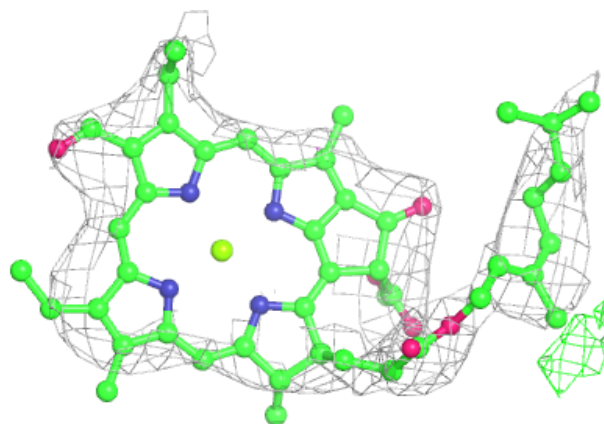


Electron density around LMG J 1103:

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

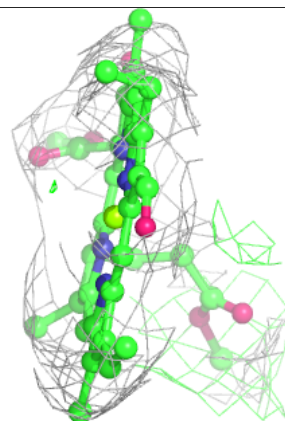
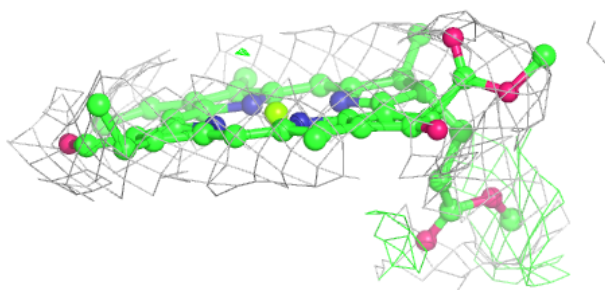
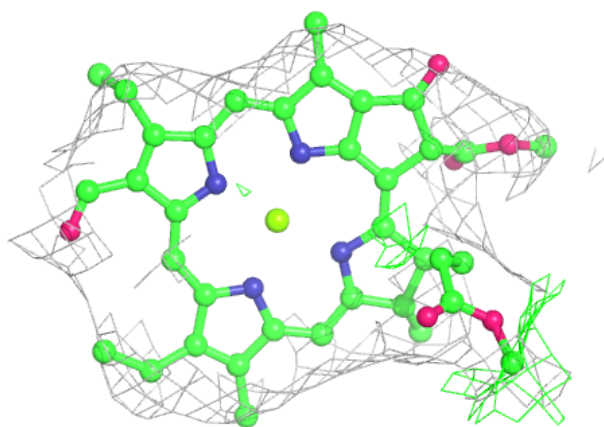
**Electron density around CHL 2 516:**

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



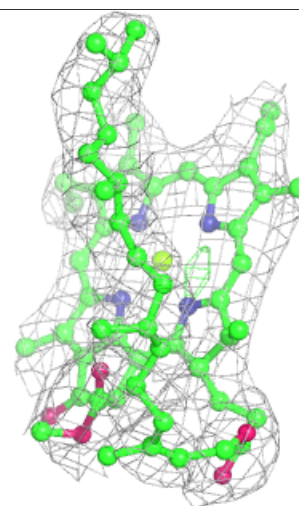
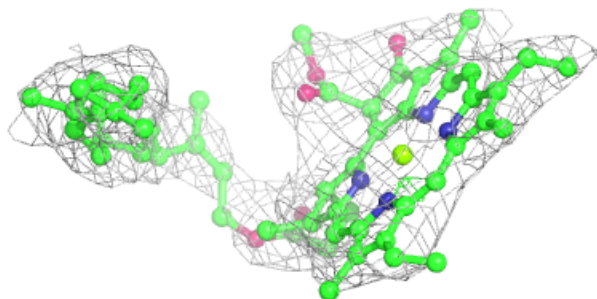
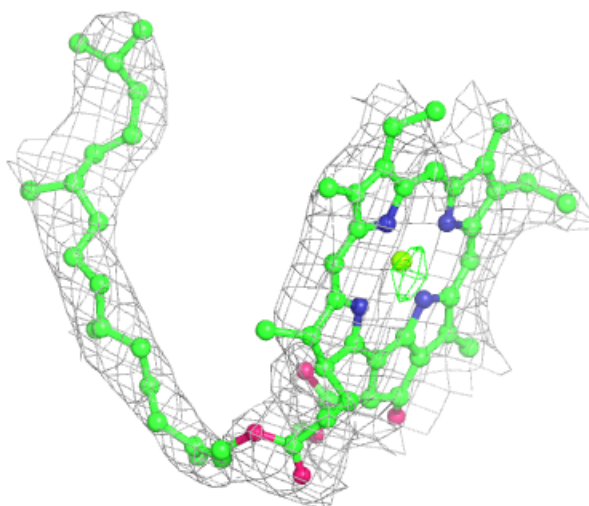
Electron density around CHL 1 512:

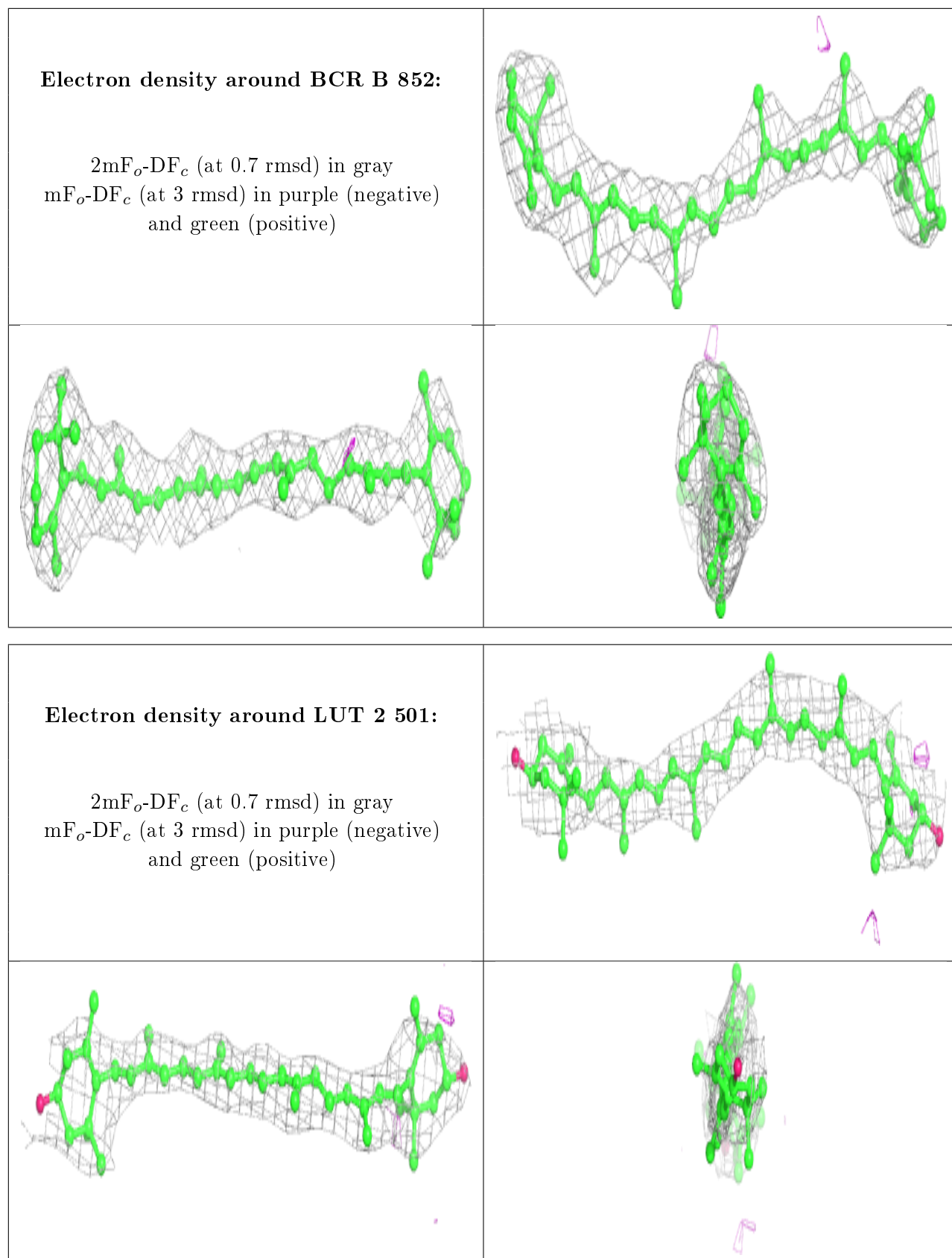
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 811:

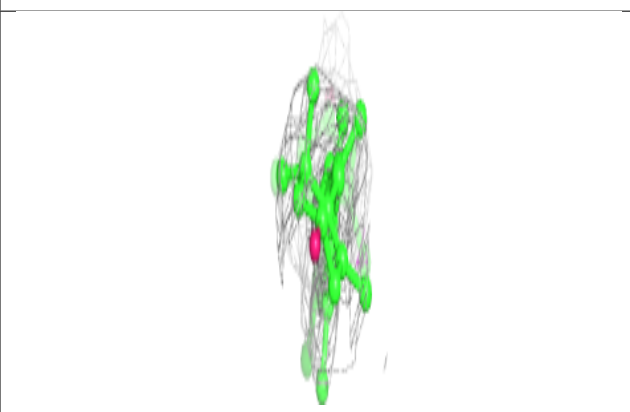
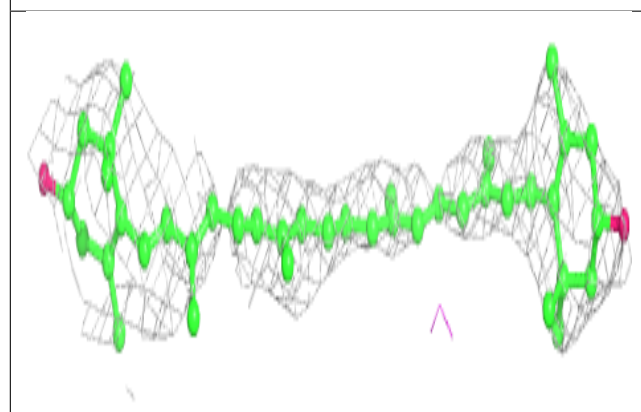
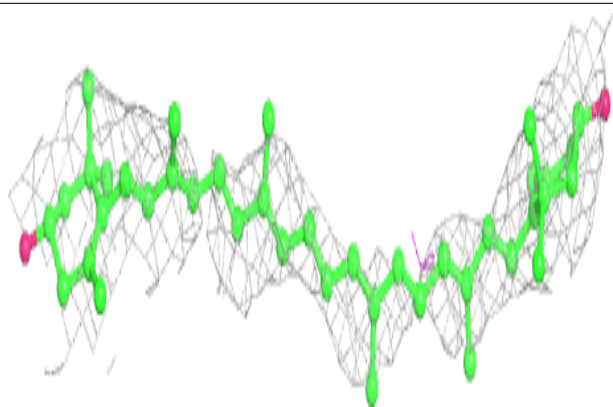
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



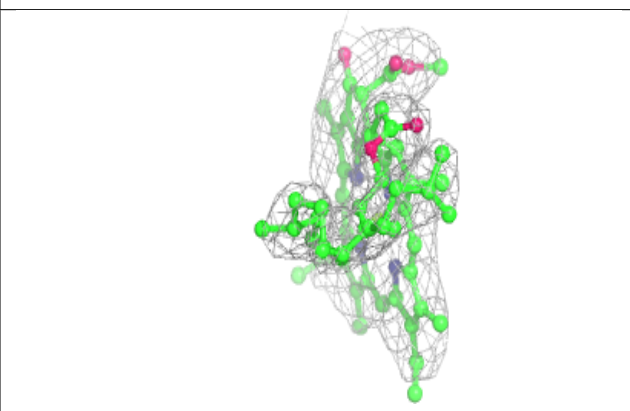
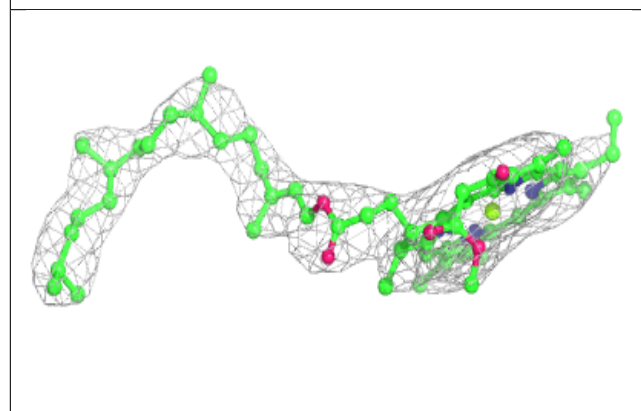
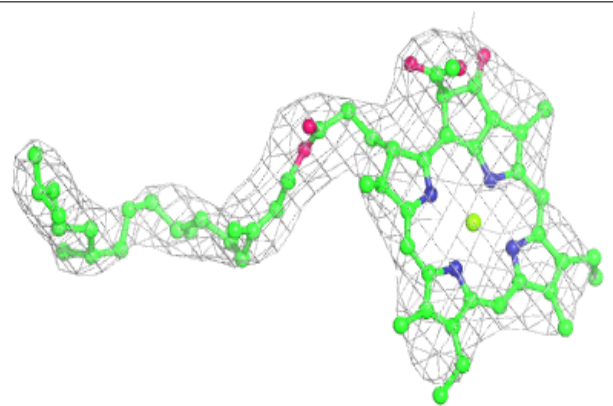


Electron density around LUT 1 501:

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

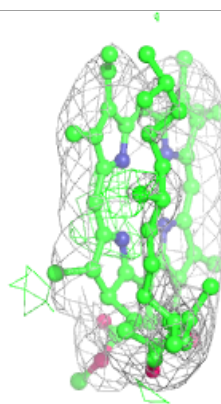
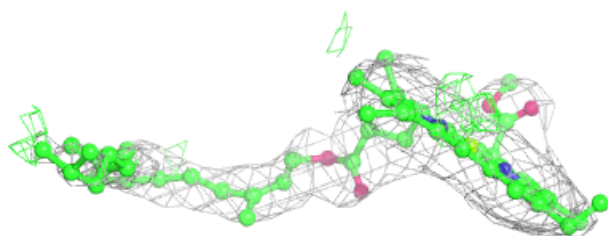
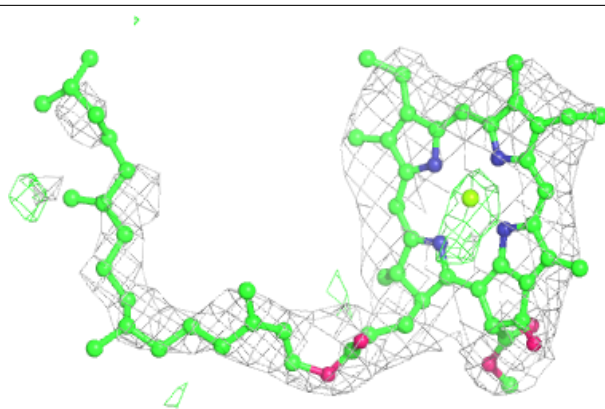
**Electron density around CLA B 814:**

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

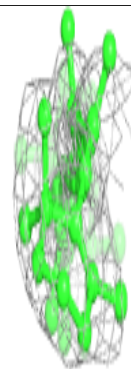
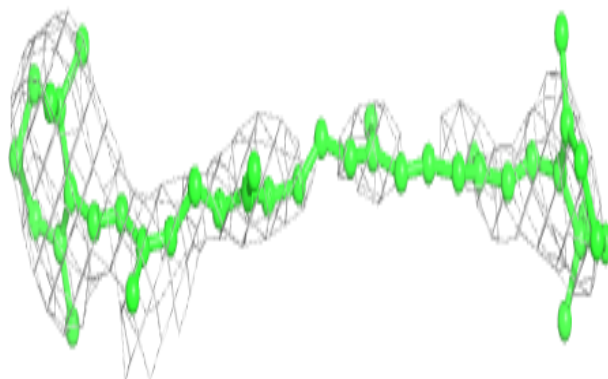
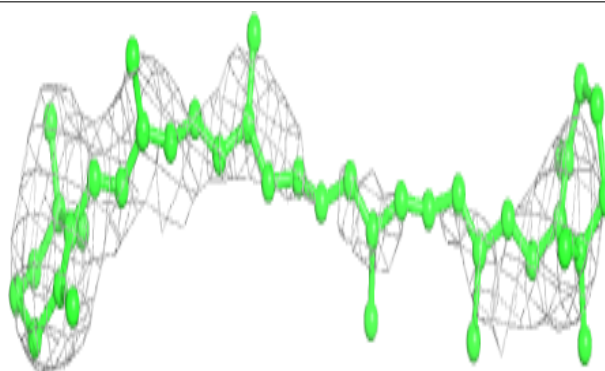


Electron density around CLA 4 318:

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

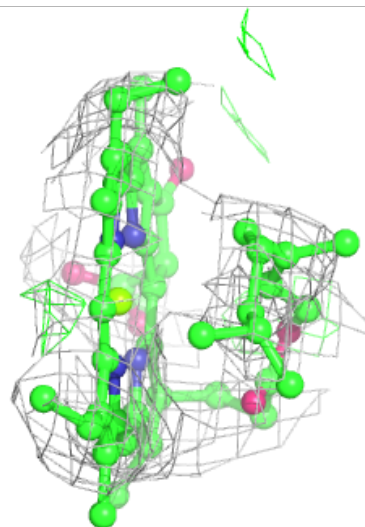
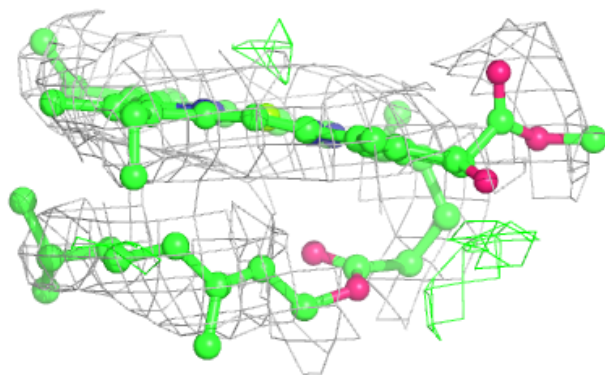
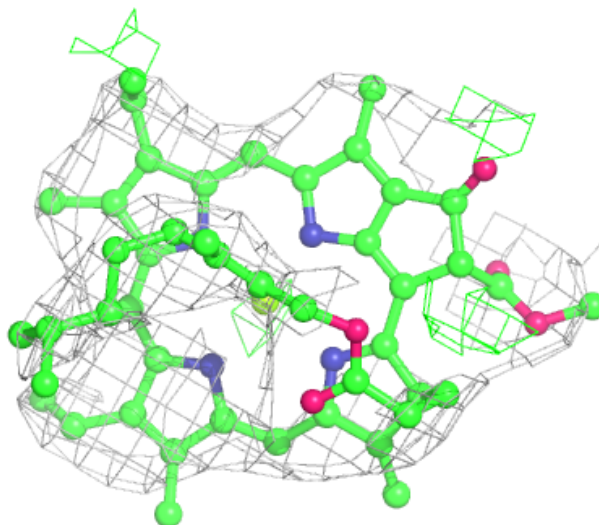
**Electron density around BCR A 848:**

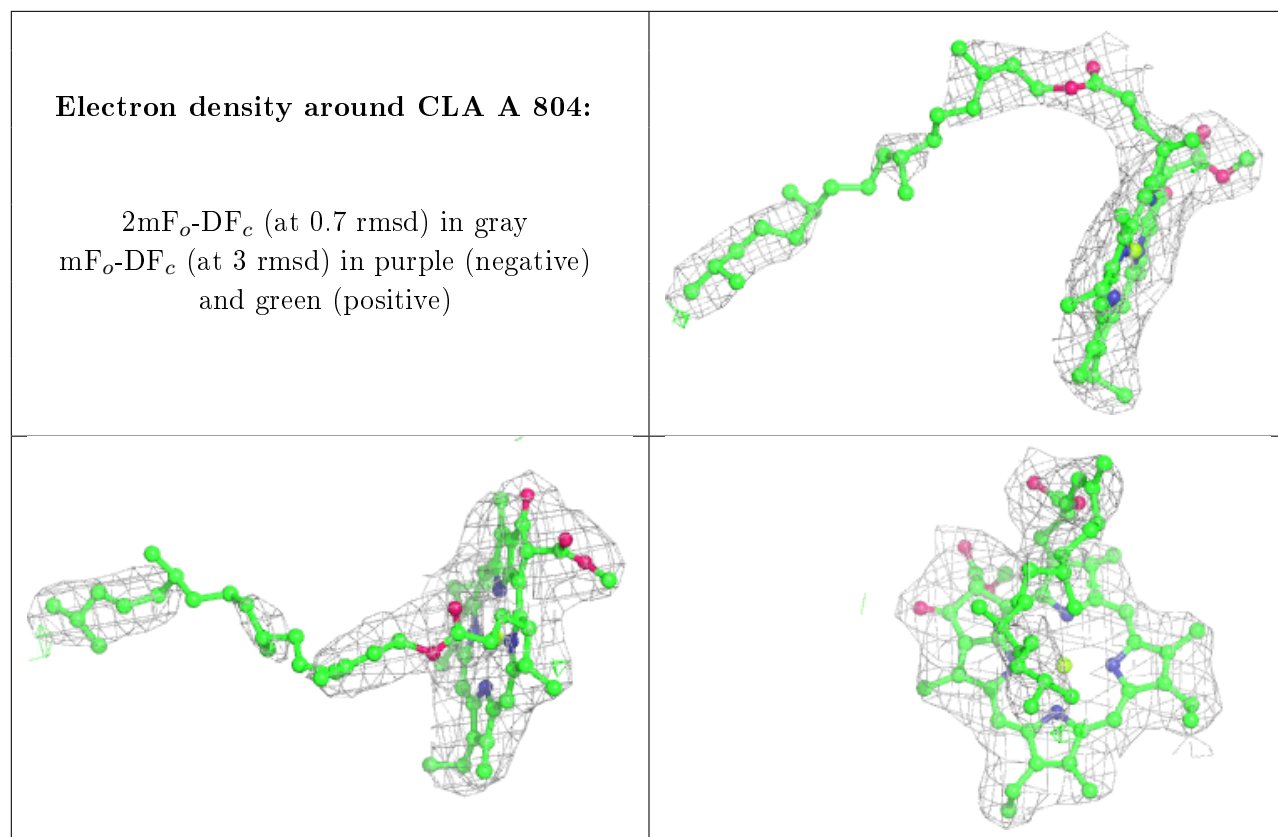
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 1 506:

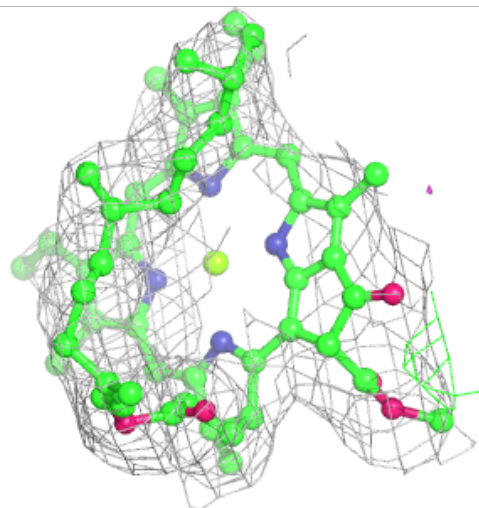
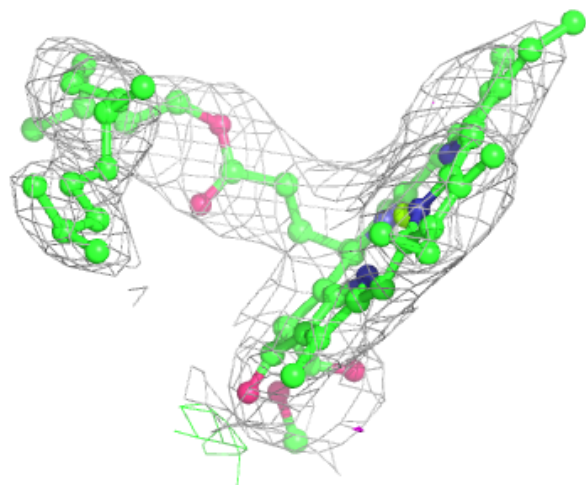
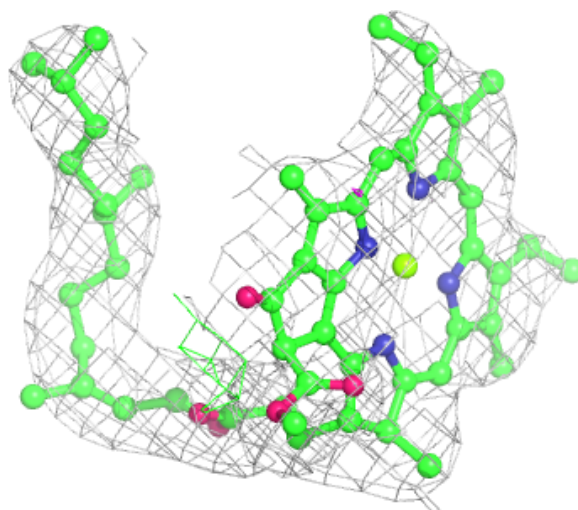
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





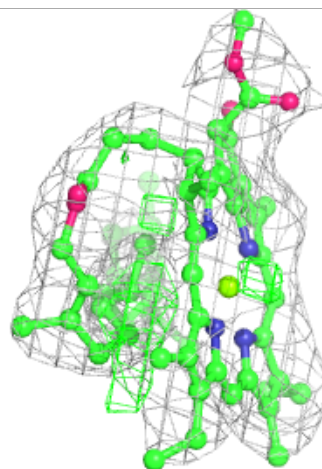
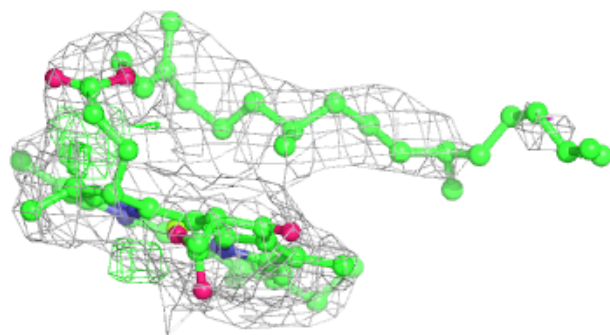
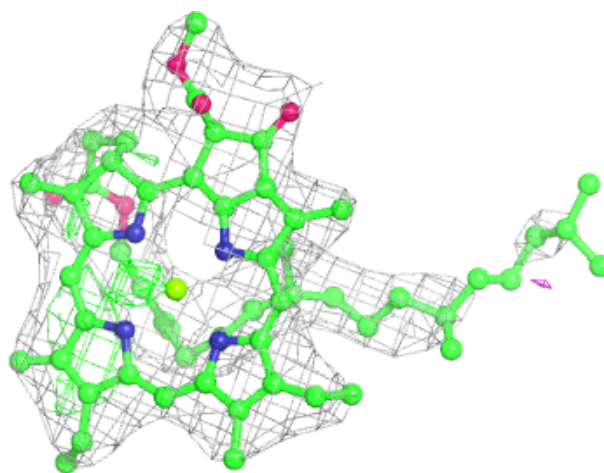
Electron density around CLA B 833:

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



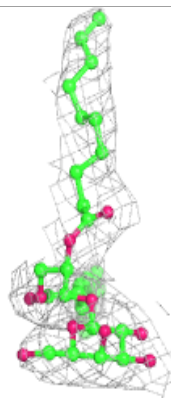
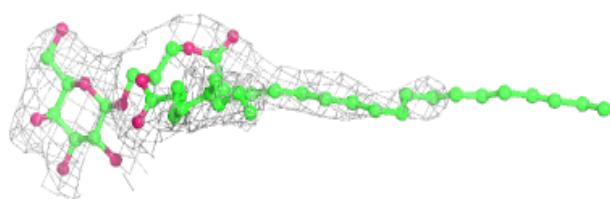
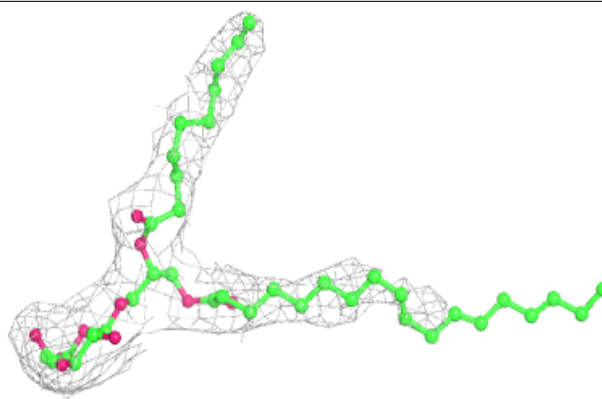
Electron density around CLA B 827:

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

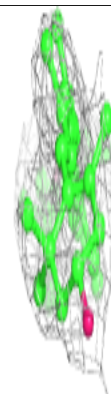
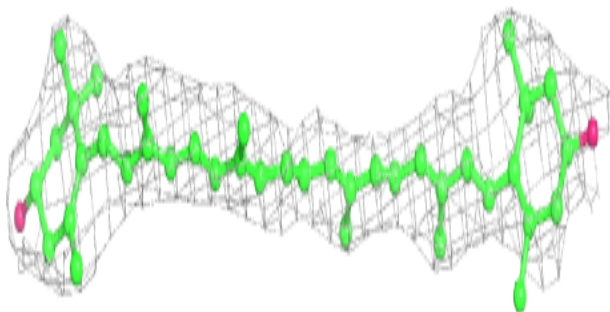
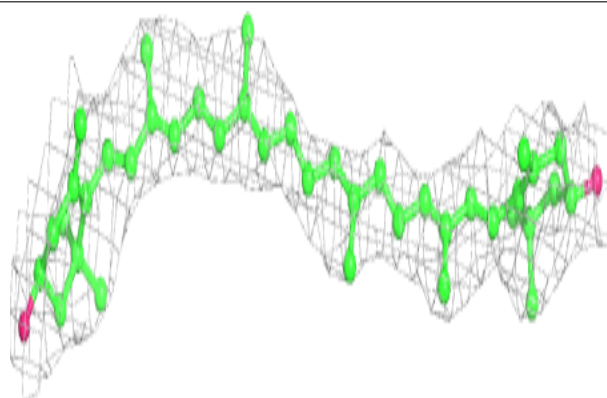


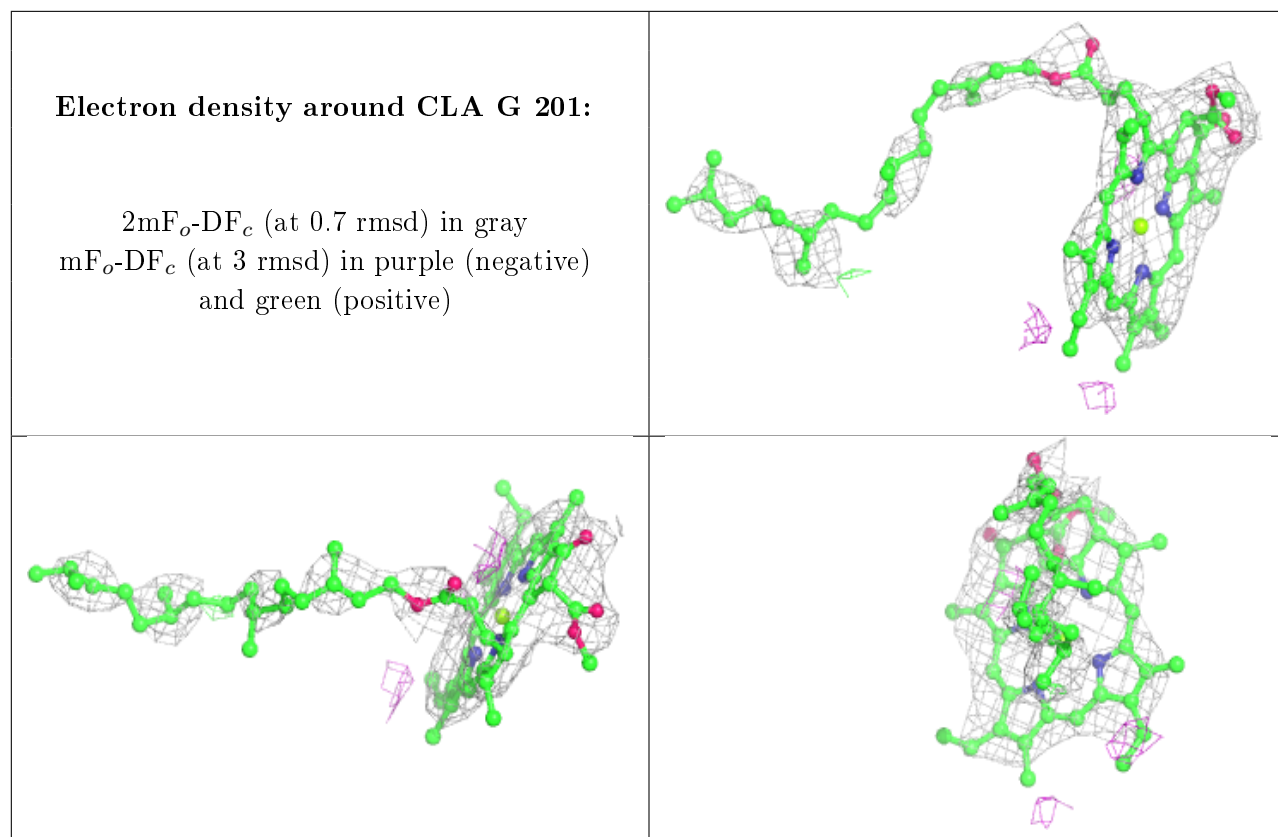
Electron density around LMG F 304:

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

**Electron density around LUT 4 302:**

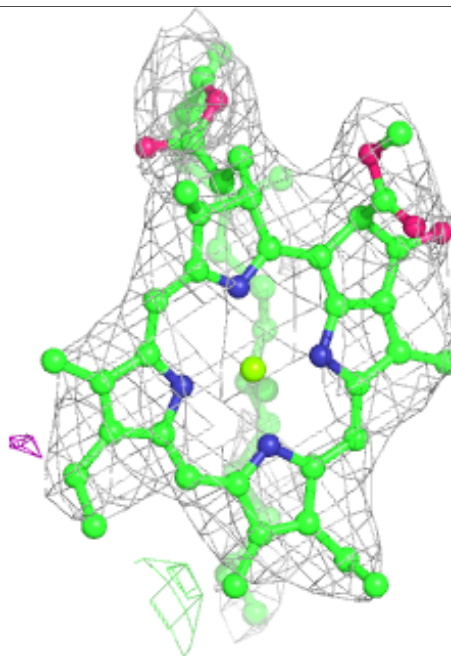
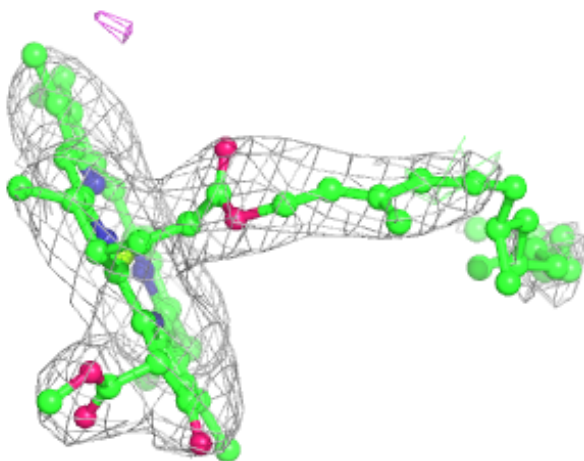
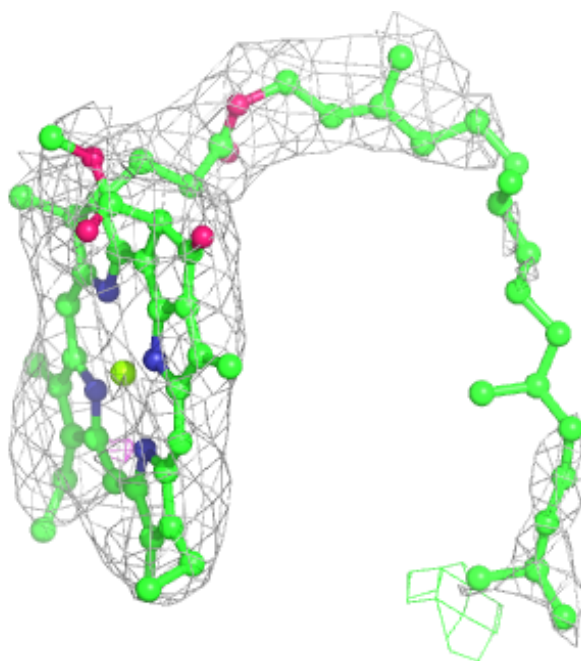
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





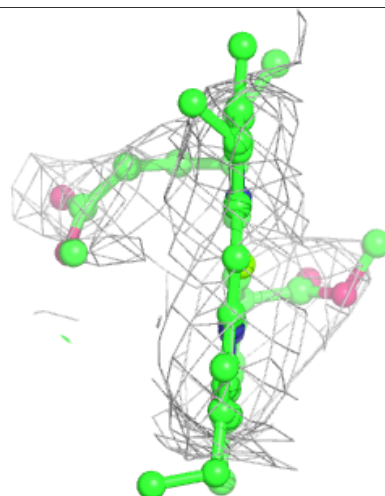
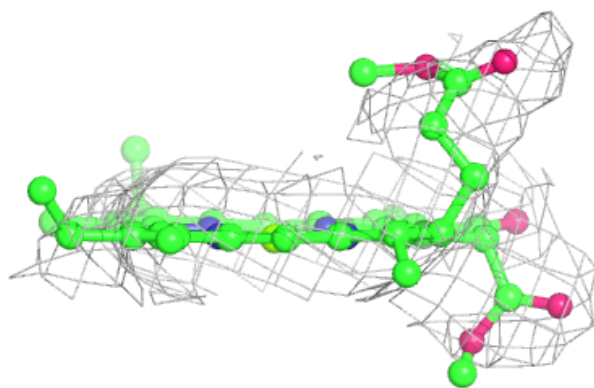
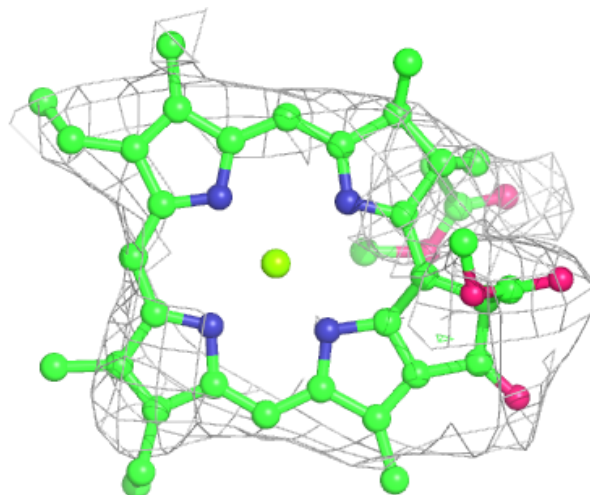
Electron density around CLA A 838:

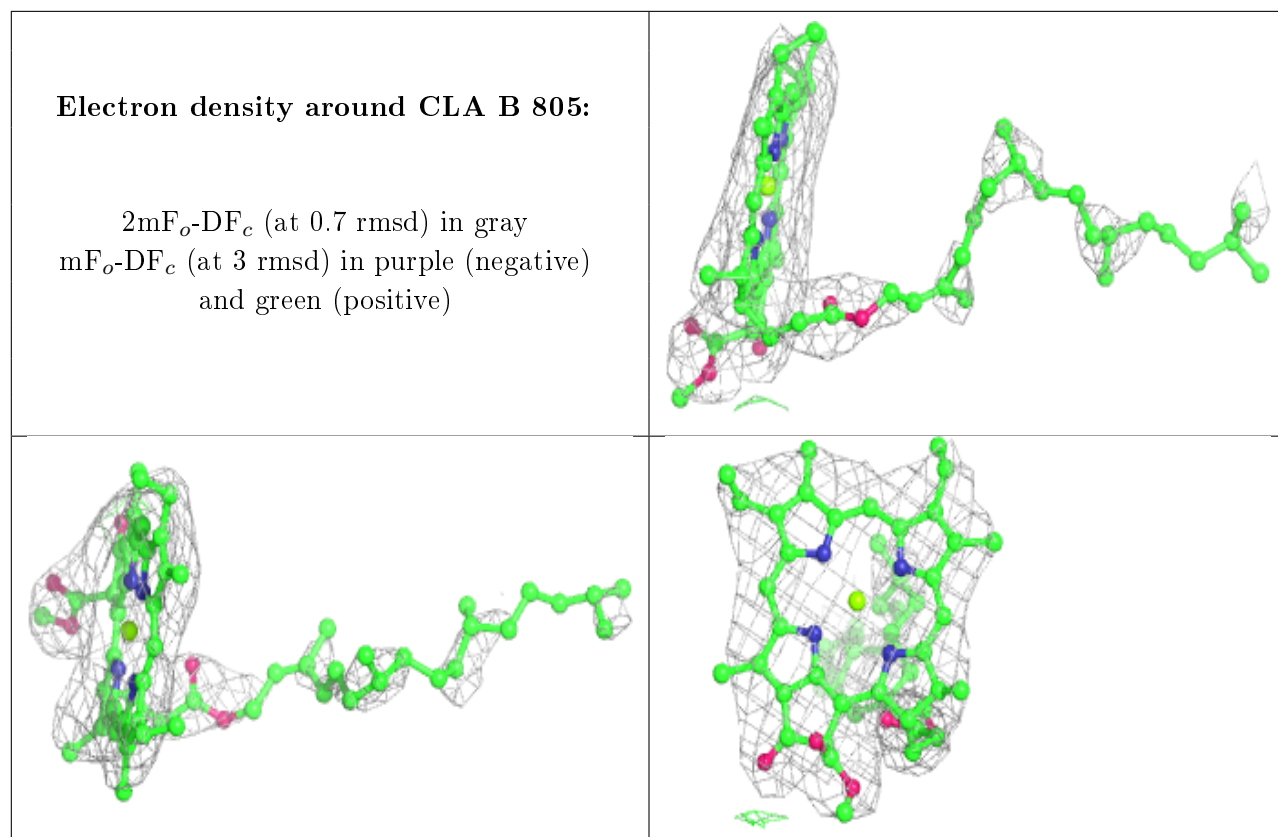
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 816:

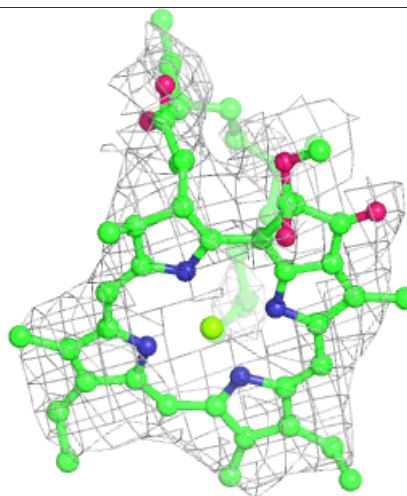
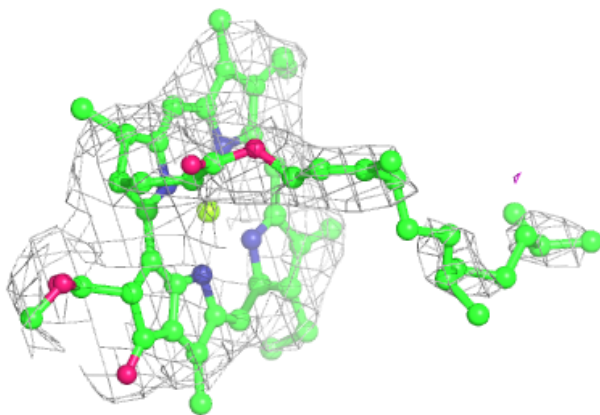
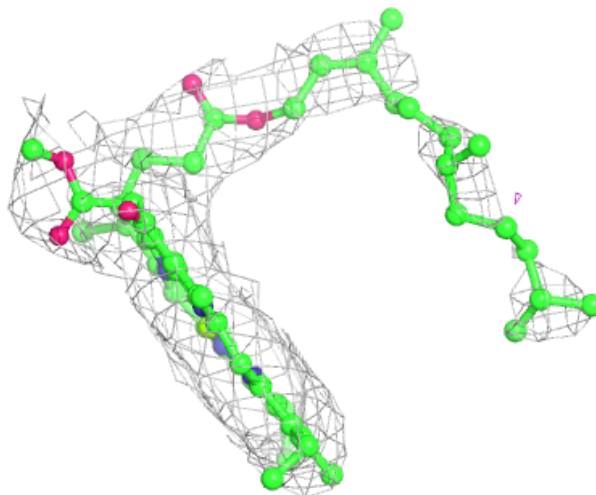
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





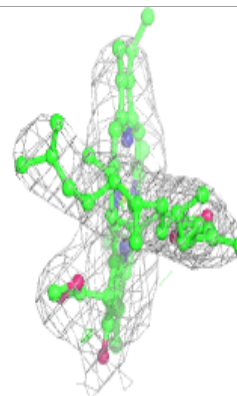
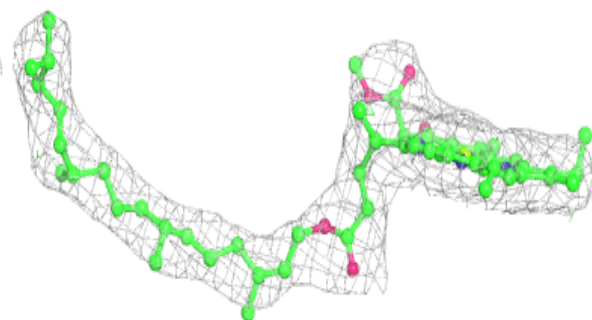
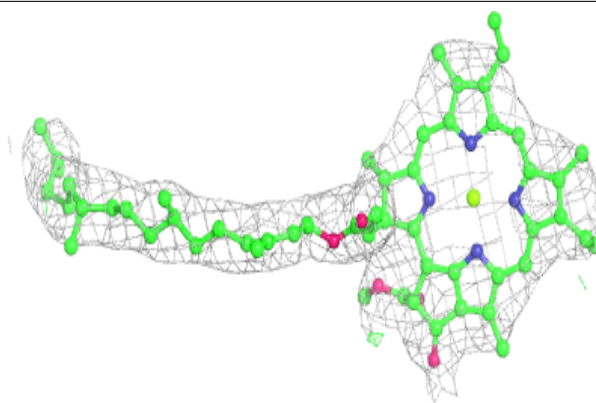
Electron density around CLA B 812:

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



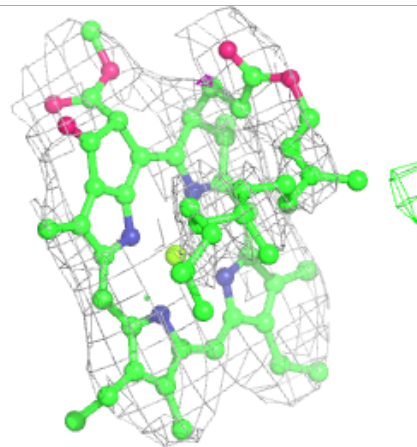
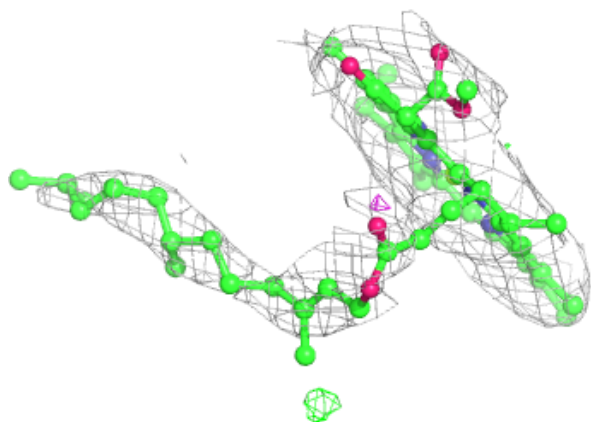
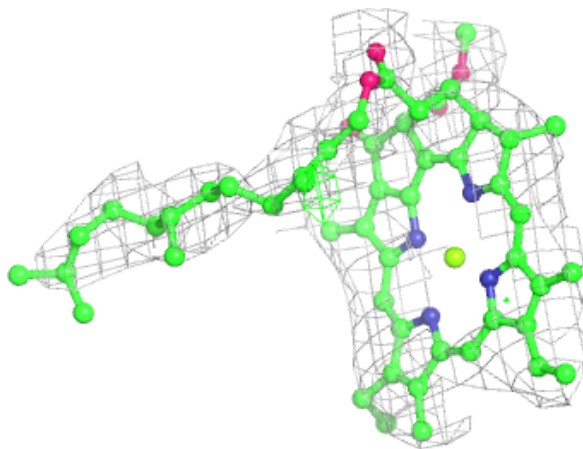
Electron density around CLA B 840:

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



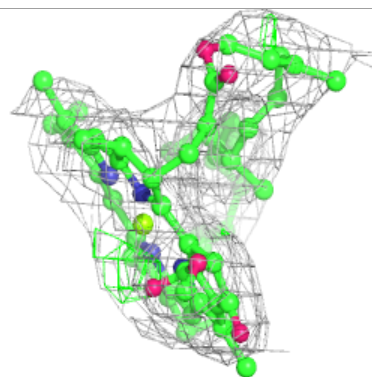
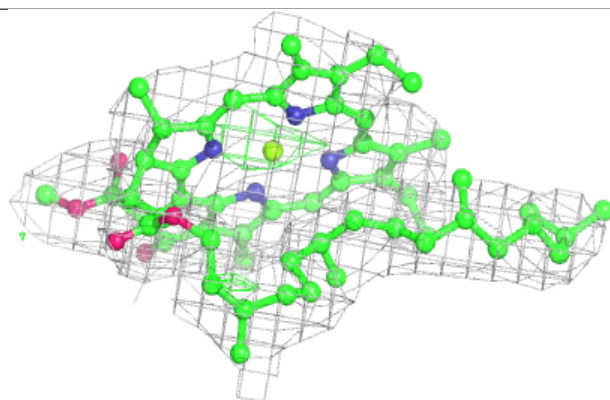
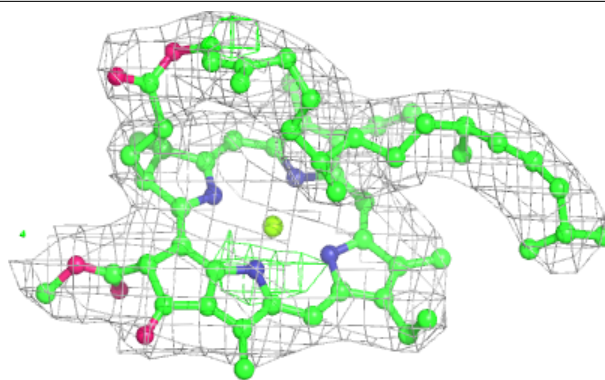
Electron density around CLA 2 510:

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

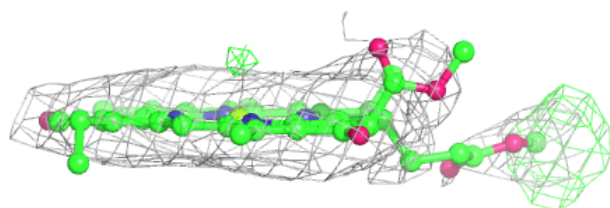
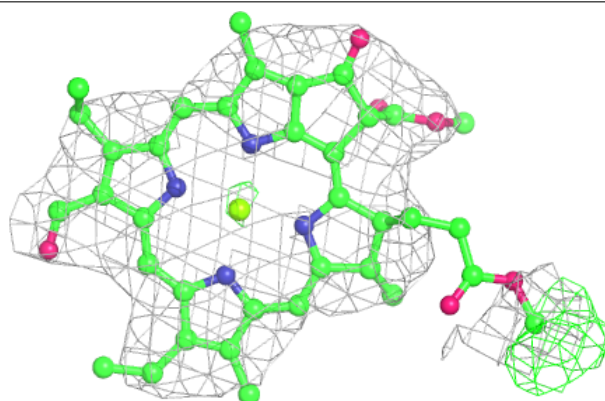


Electron density around CLA B 818:

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

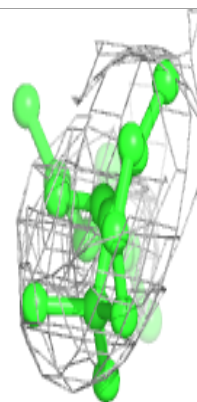
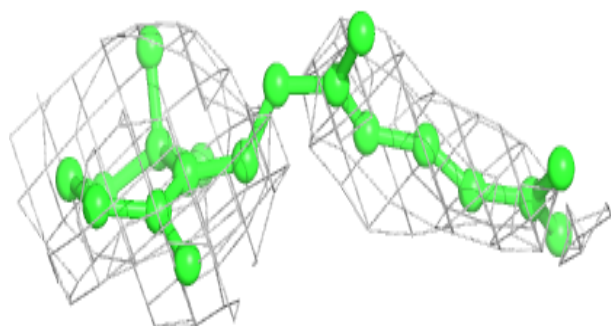
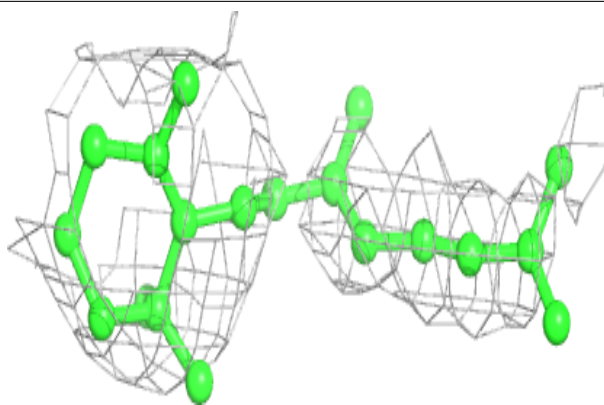
**Electron density around CHL 4 313:**

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

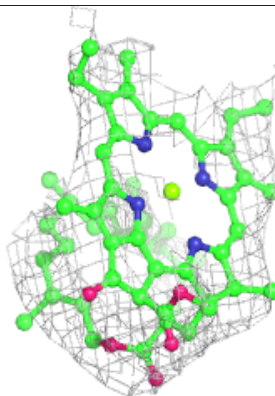
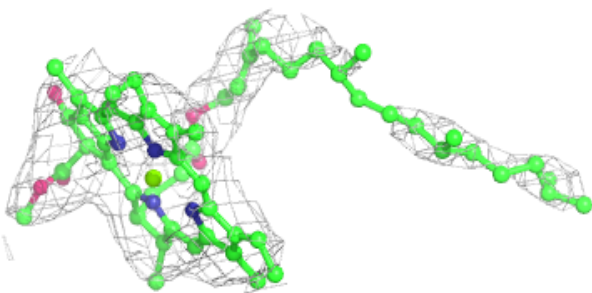
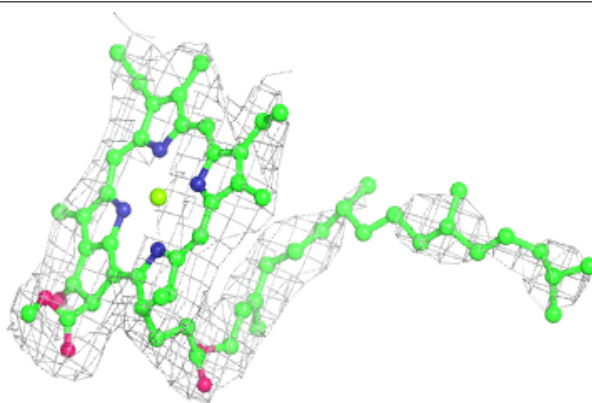


Electron density around BCR 1 503:

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

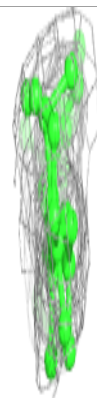
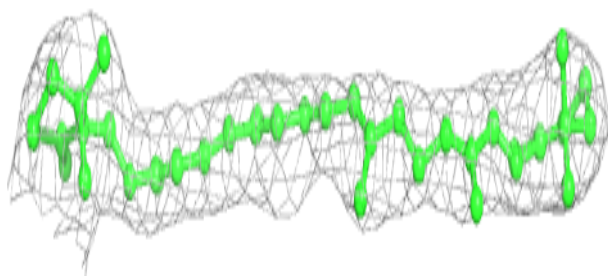
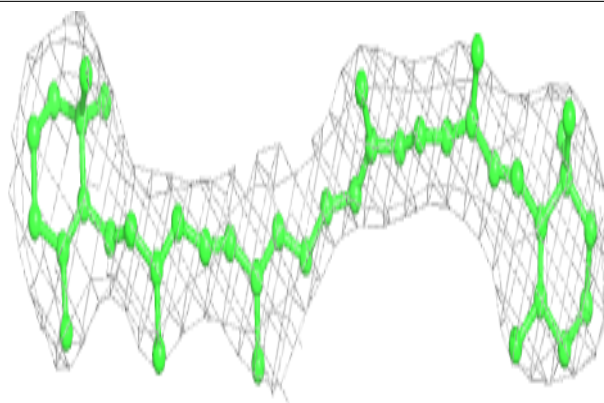
**Electron density around CLA B 815:**

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

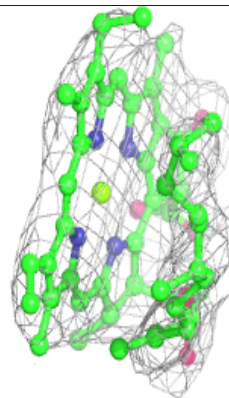
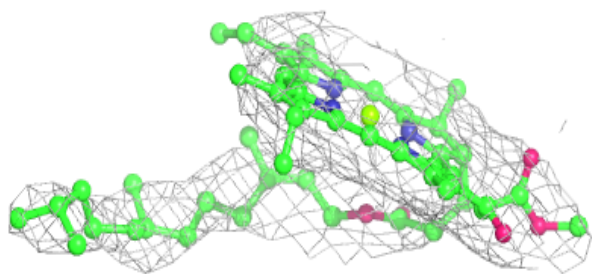
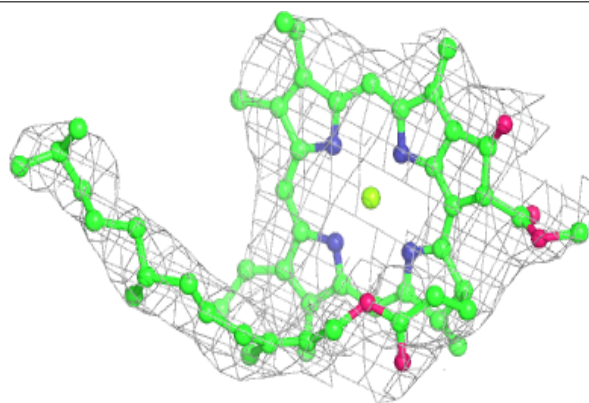


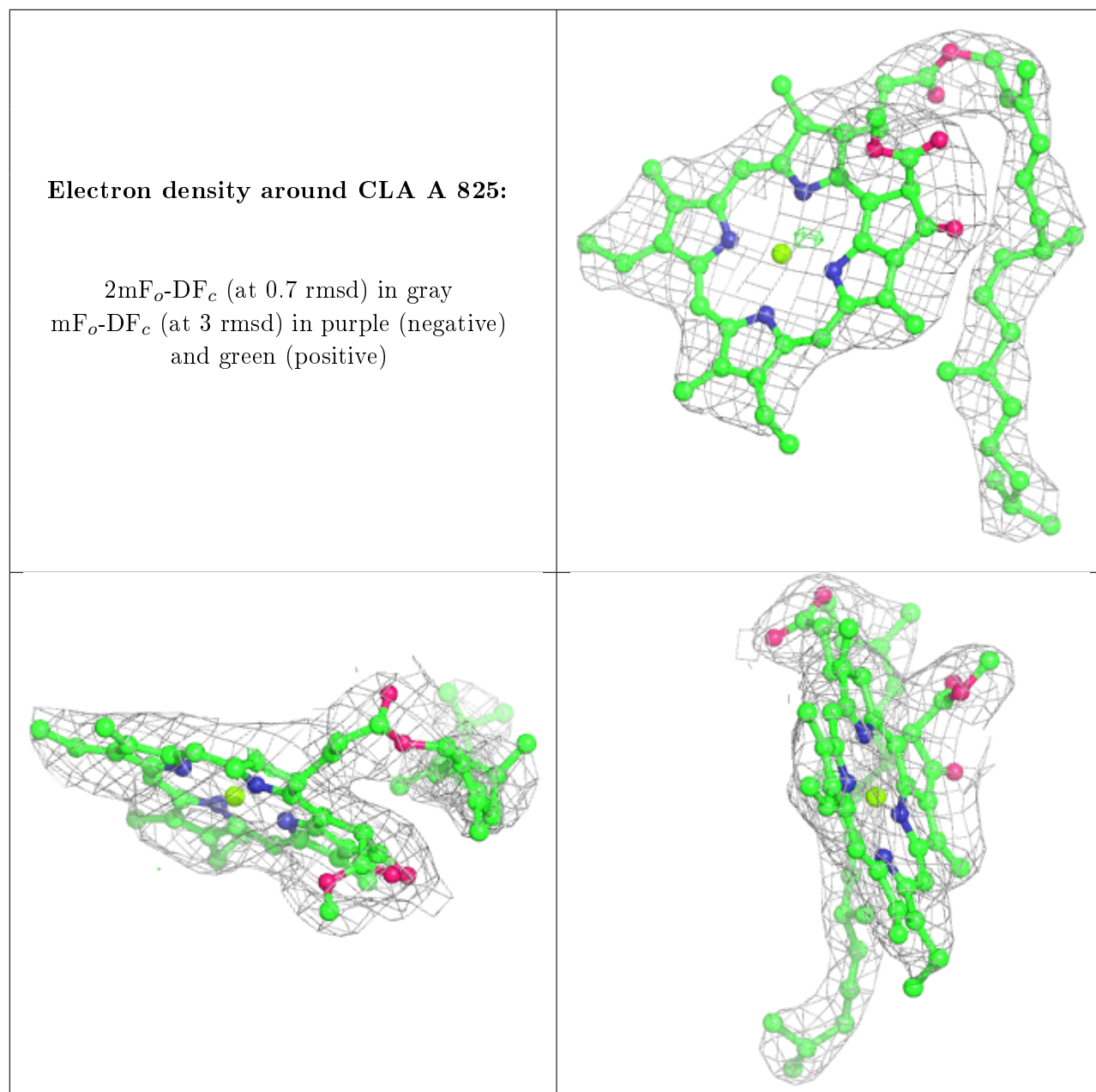
Electron density around BCR I 102:

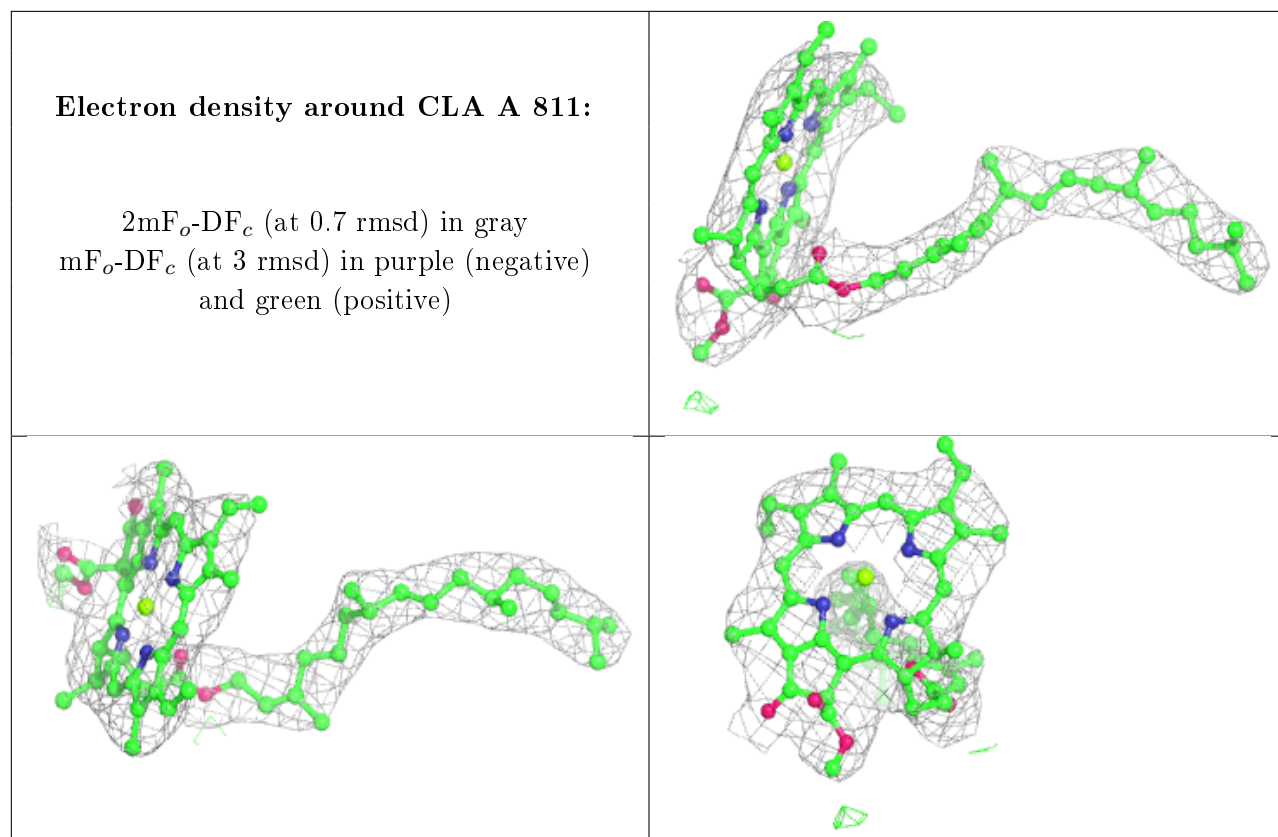
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA 4 304:**

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

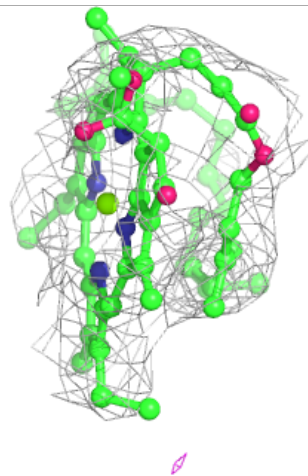
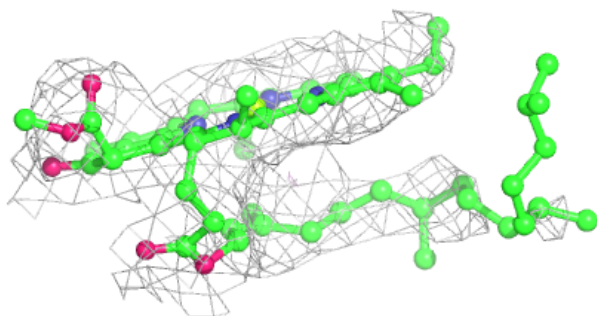
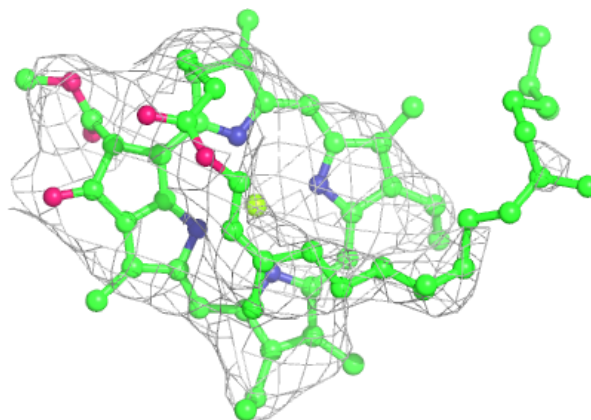






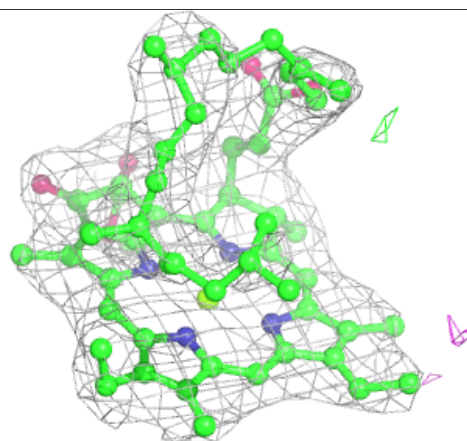
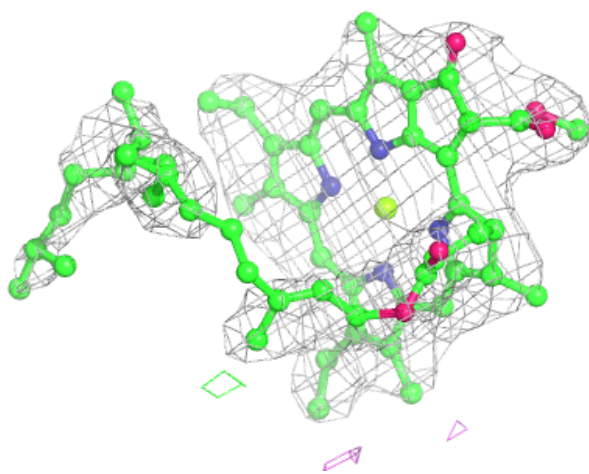
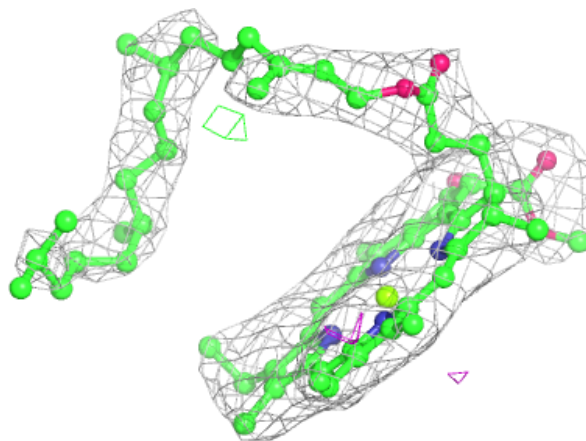
Electron density around CLA 4 306:

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



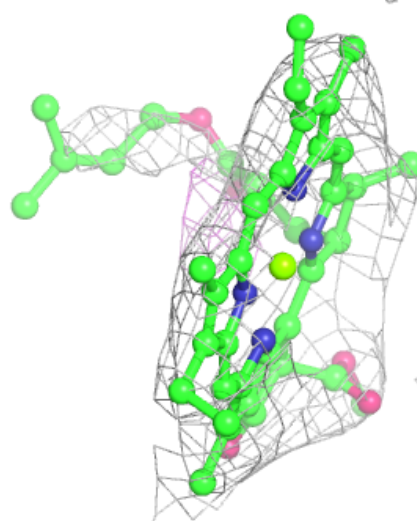
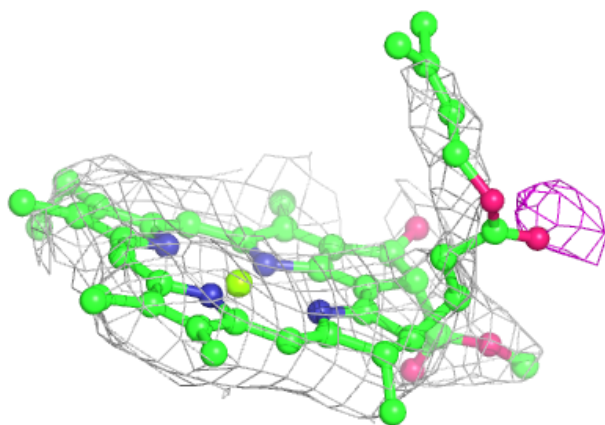
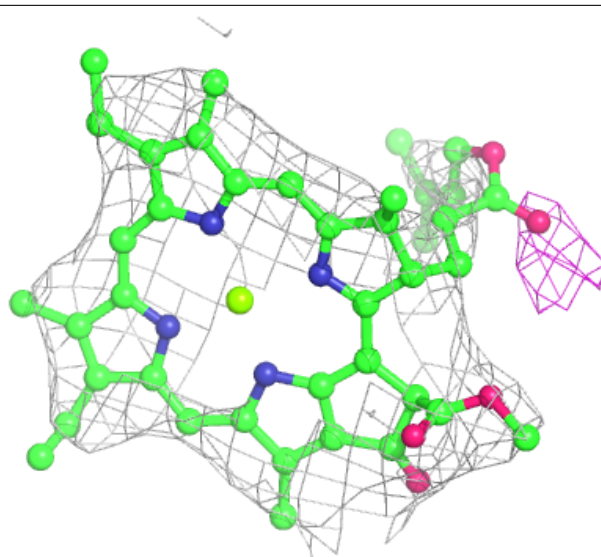
Electron density around CLA B 830:

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



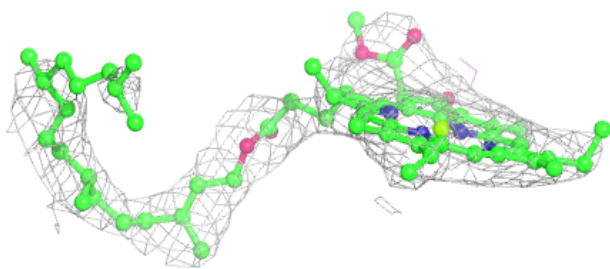
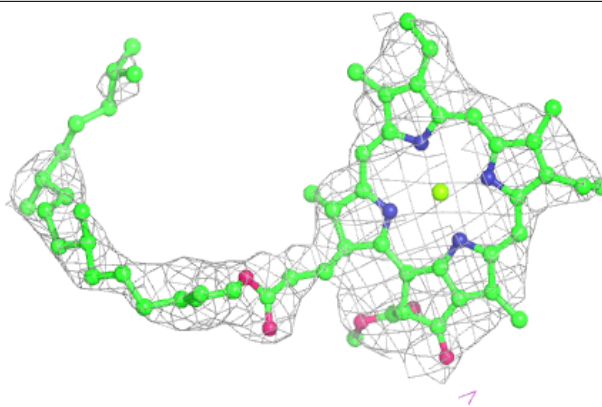
Electron density around CLA 3 315:

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

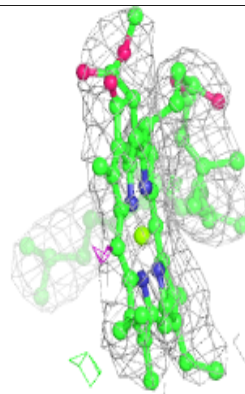
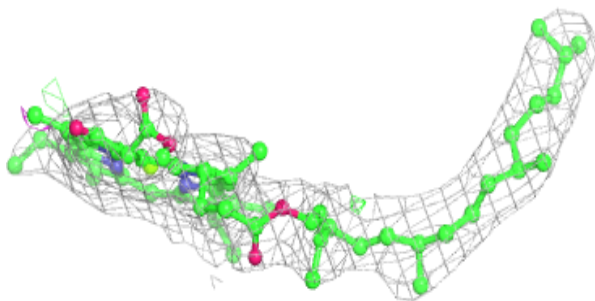
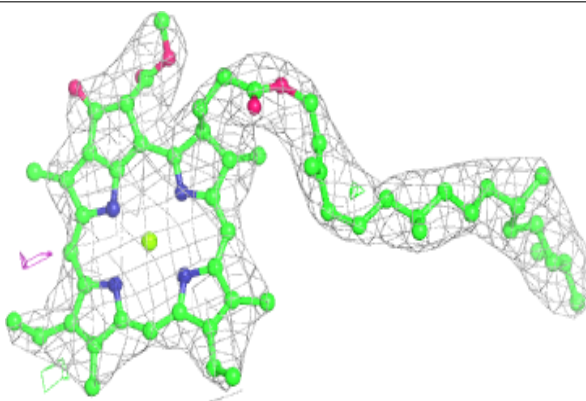


Electron density around CLA A 827:

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

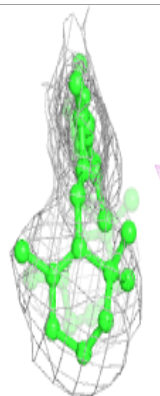
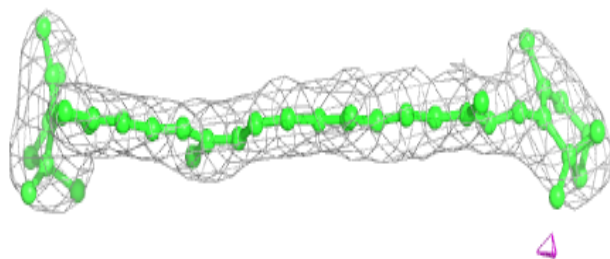
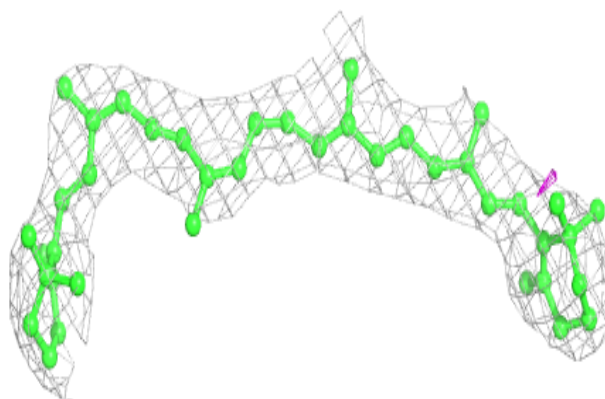
**Electron density around CLA B 804:**

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

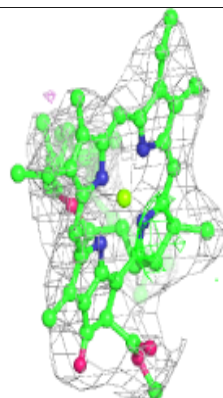
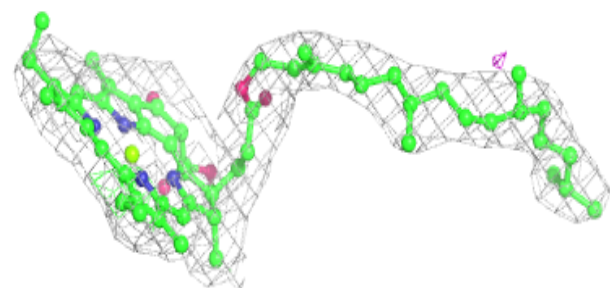
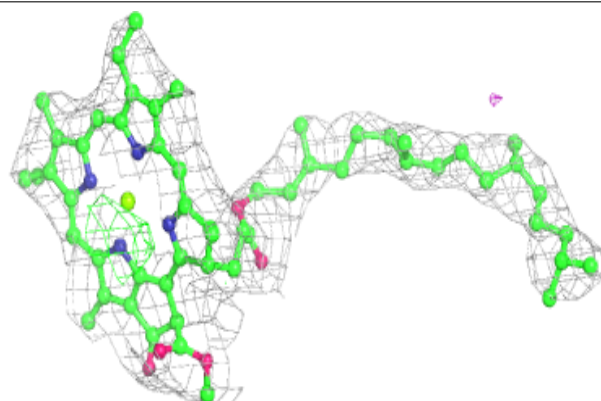


Electron density around BCR L 302:

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

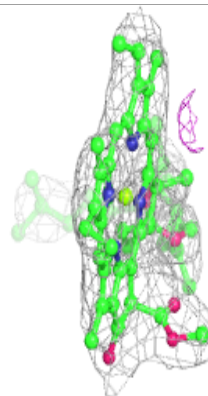
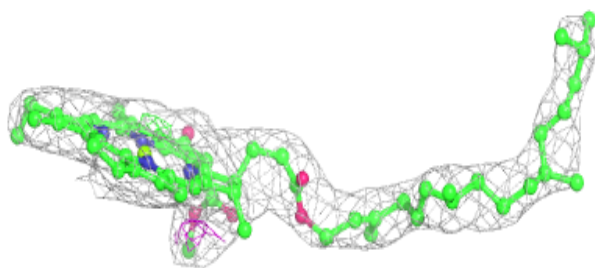
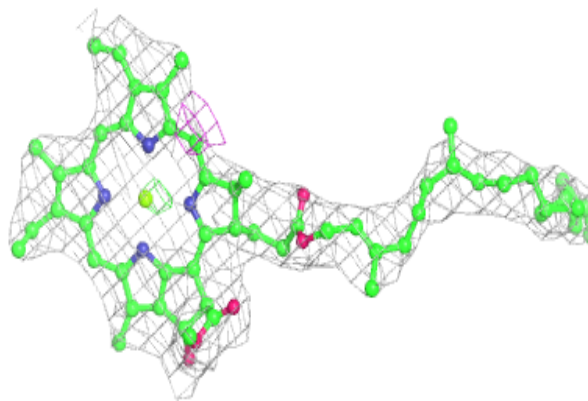
**Electron density around CLA A 821:**

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

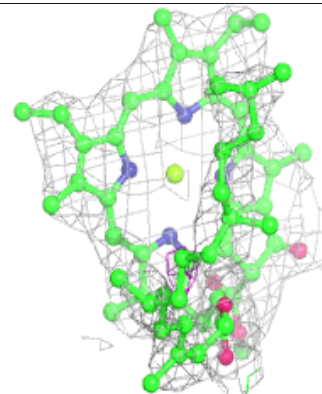
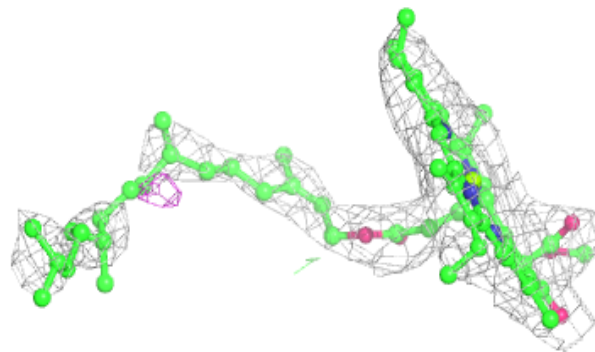
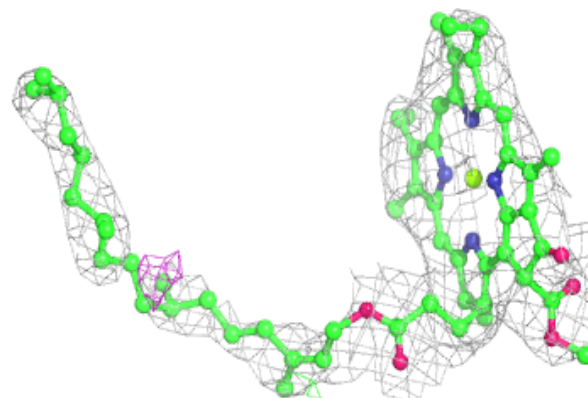


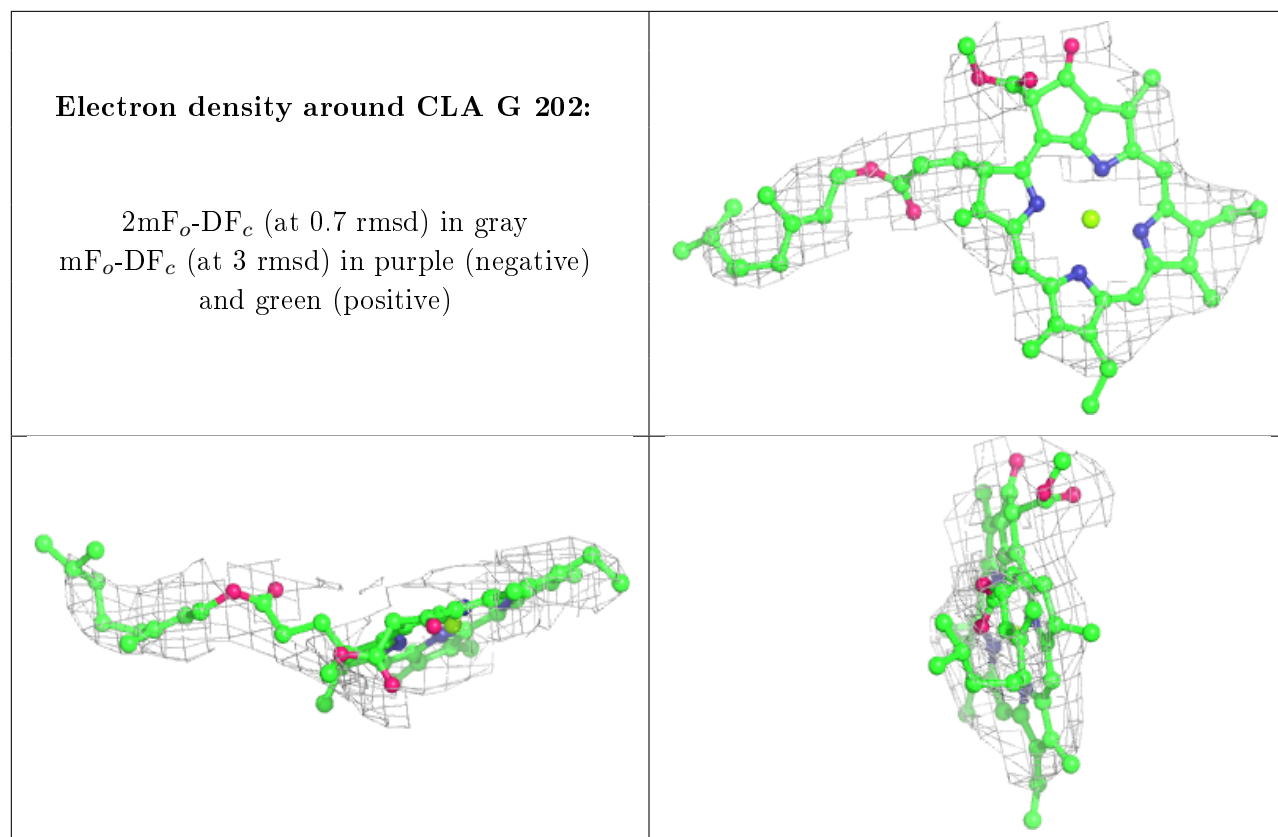
Electron density around CLA A 805:

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

**Electron density around CLA A 834:**

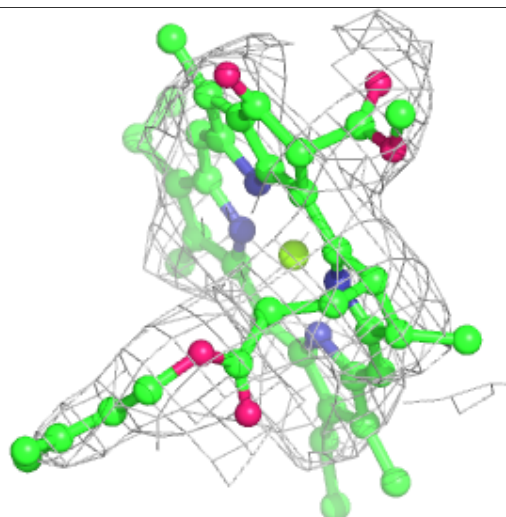
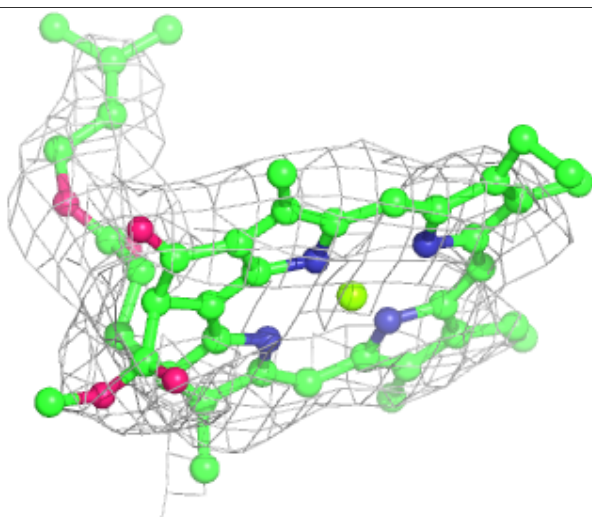
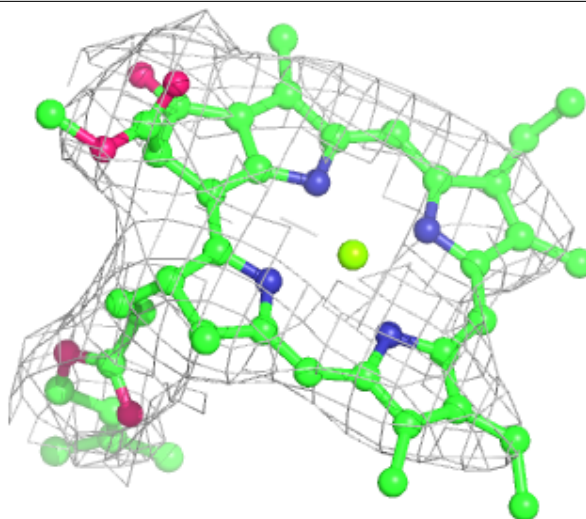
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





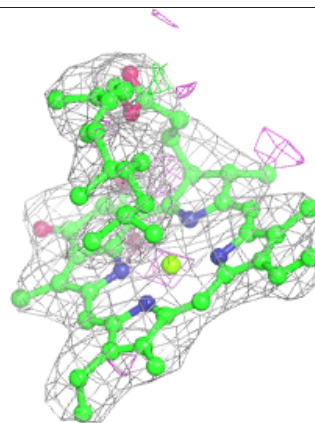
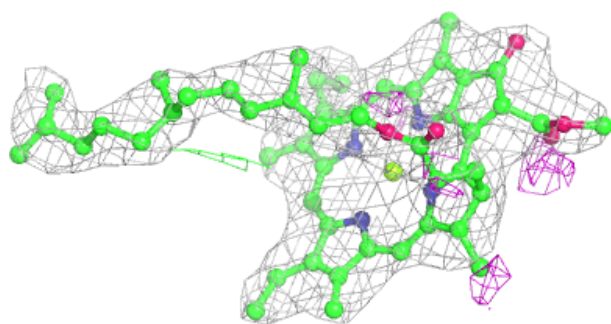
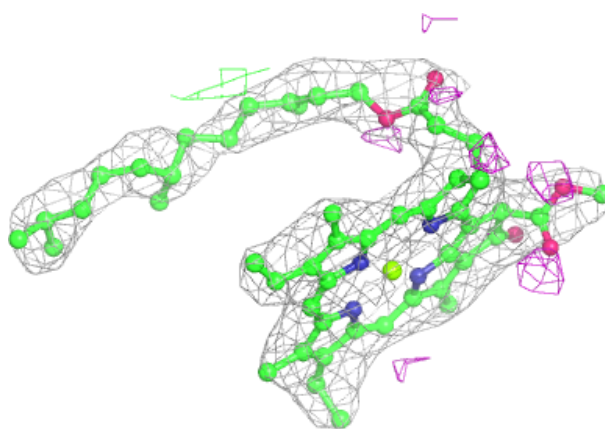
Electron density around CLA 2 509:

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

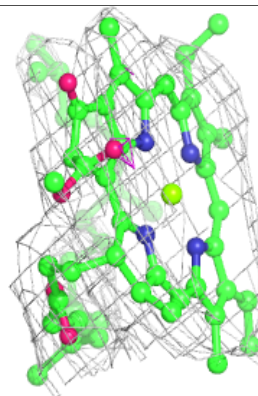
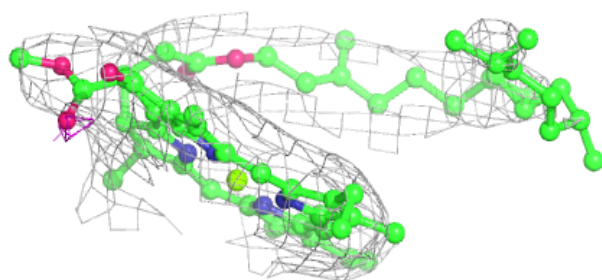
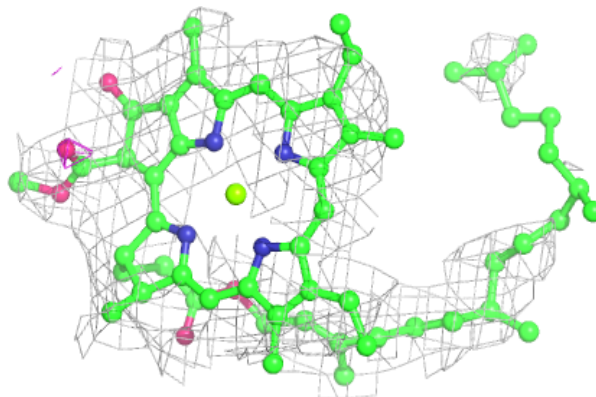


Electron density around CLA B 831:

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

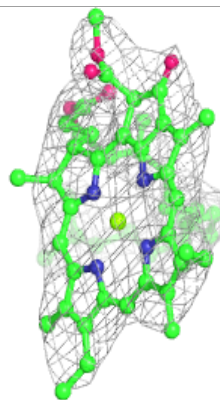
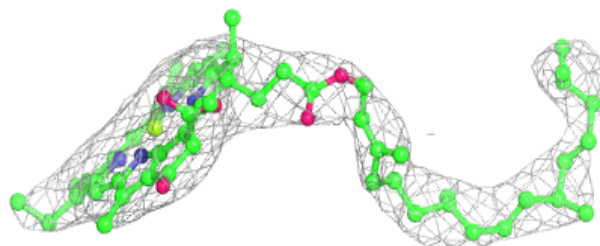
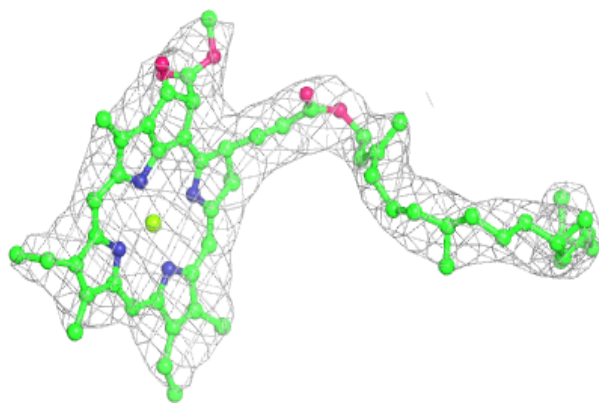
**Electron density around CLA 1 504:**

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

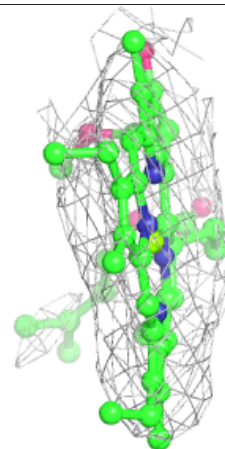
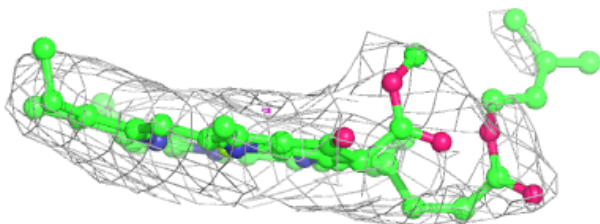
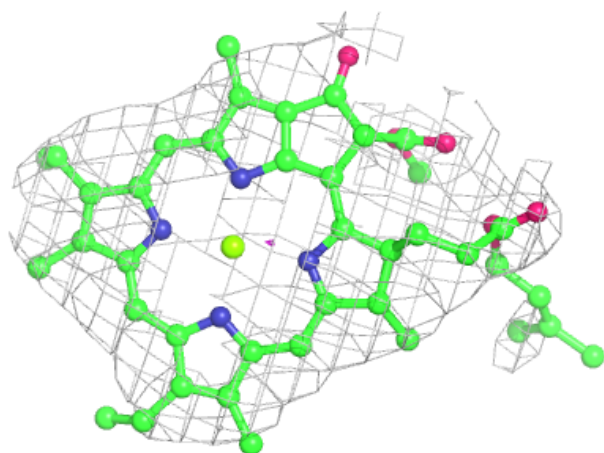


Electron density around CLA B 810:

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

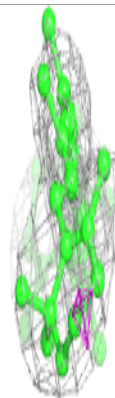
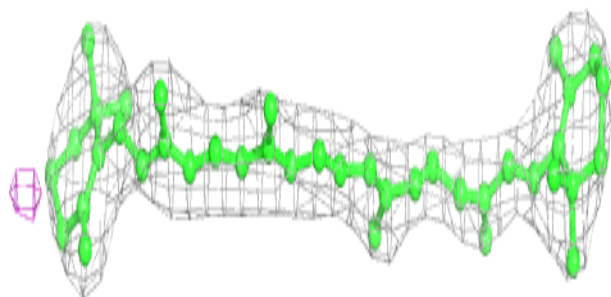
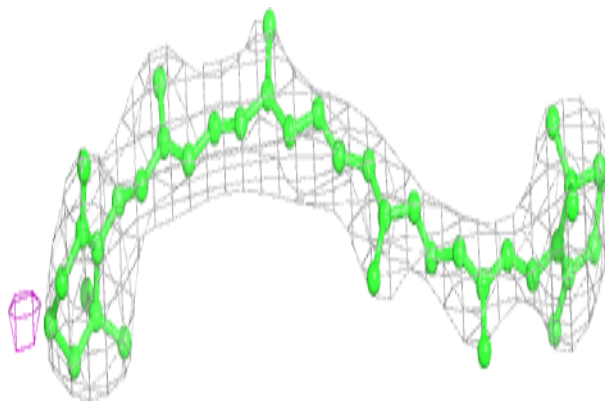
**Electron density around CLA 4 305:**

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

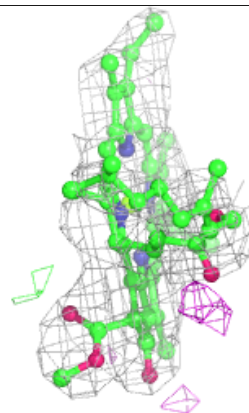
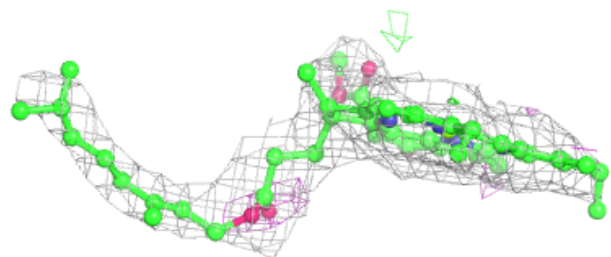
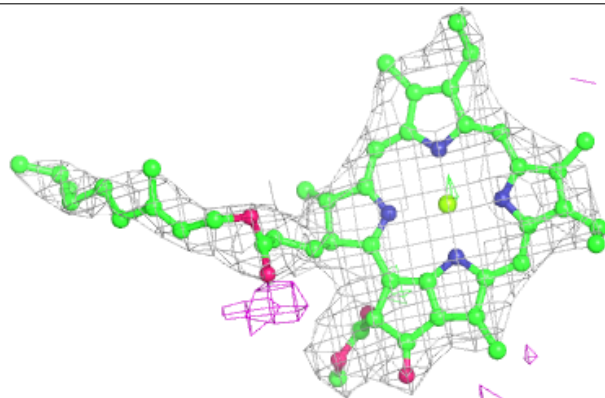


Electron density around BCR B 853:

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

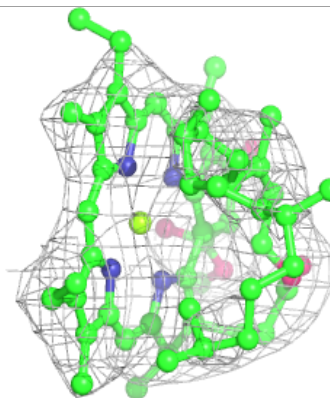
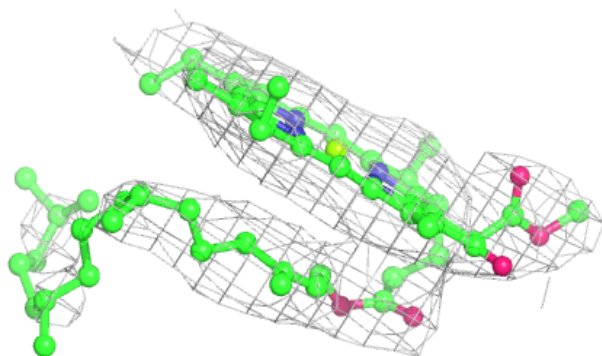
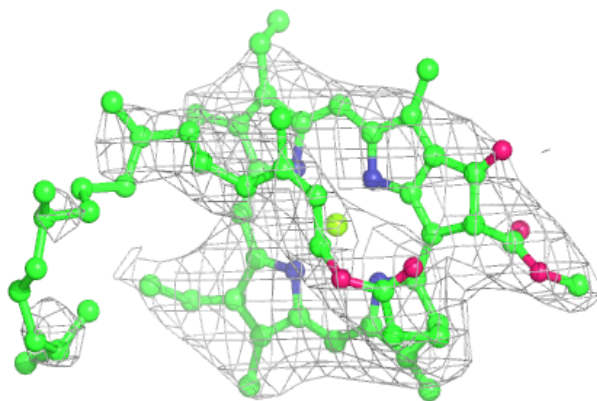
**Electron density around CLA A 826:**

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



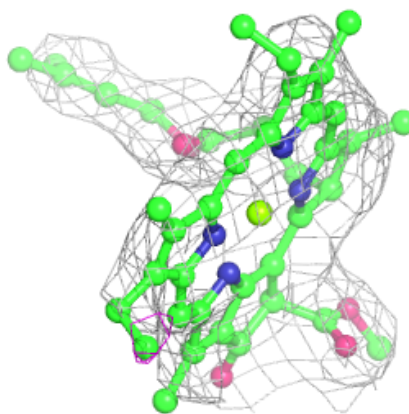
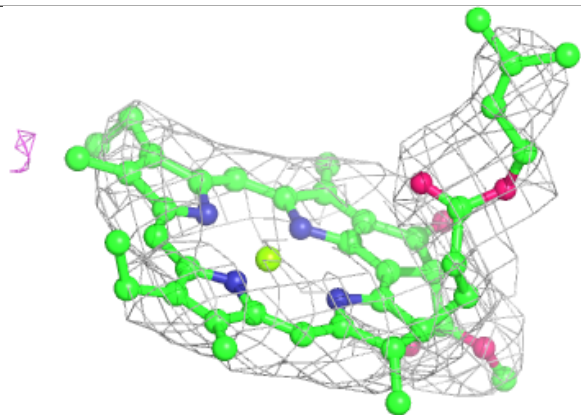
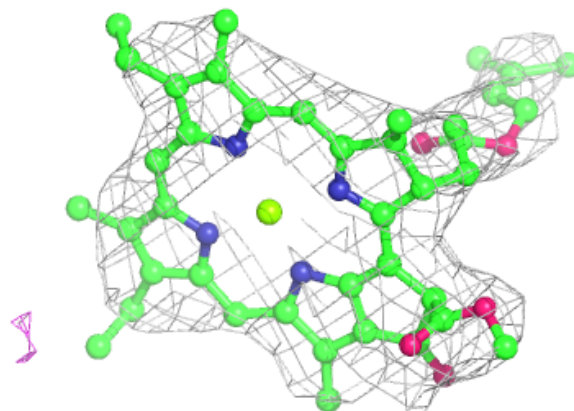
Electron density around CLA B 808:

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



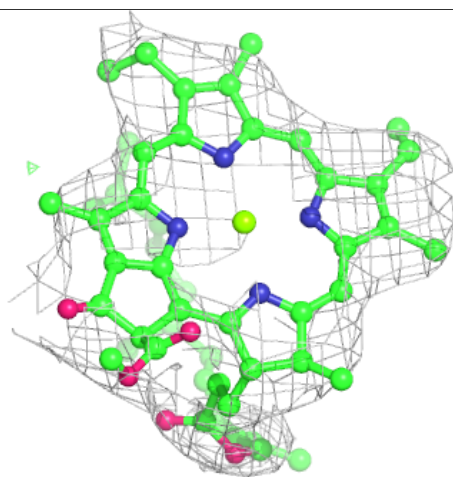
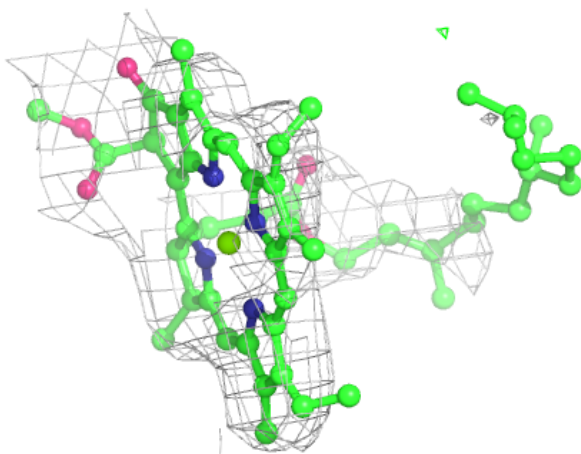
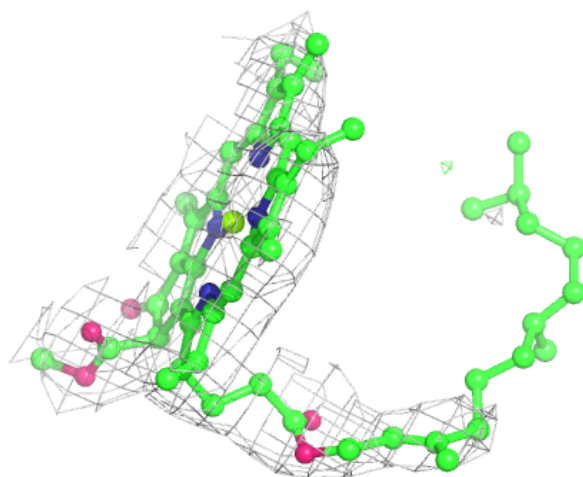
Electron density around CLA 2 511:

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



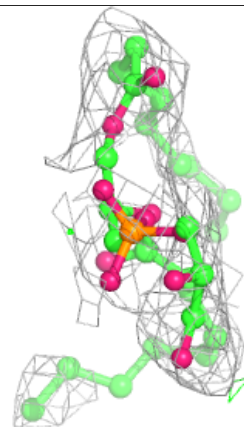
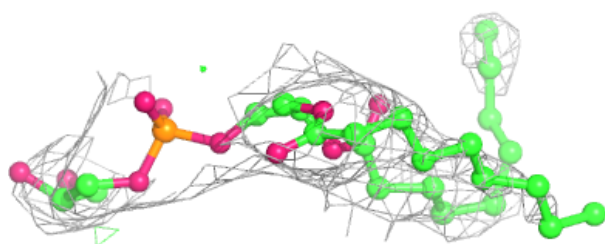
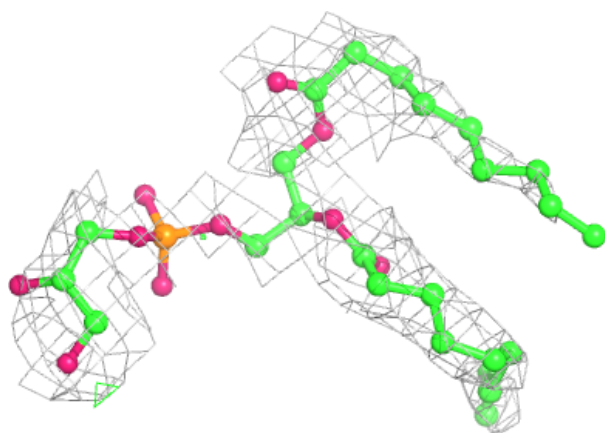
Electron density around CLA A 823:

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



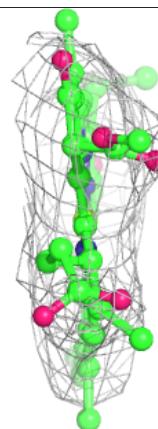
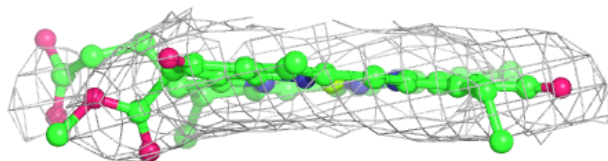
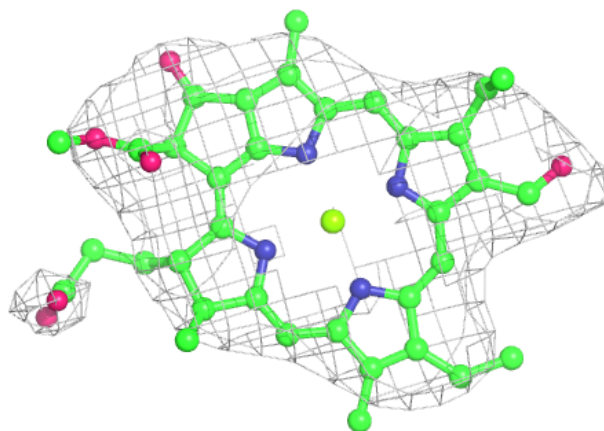
Electron density around LHG 2 517:

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

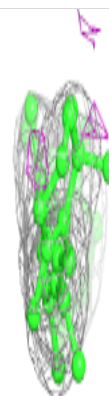
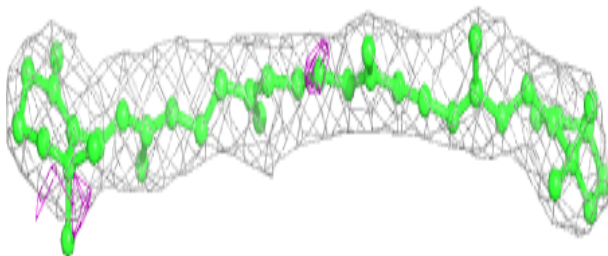
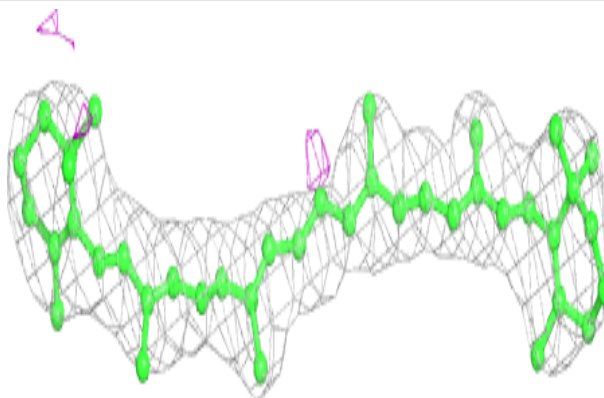


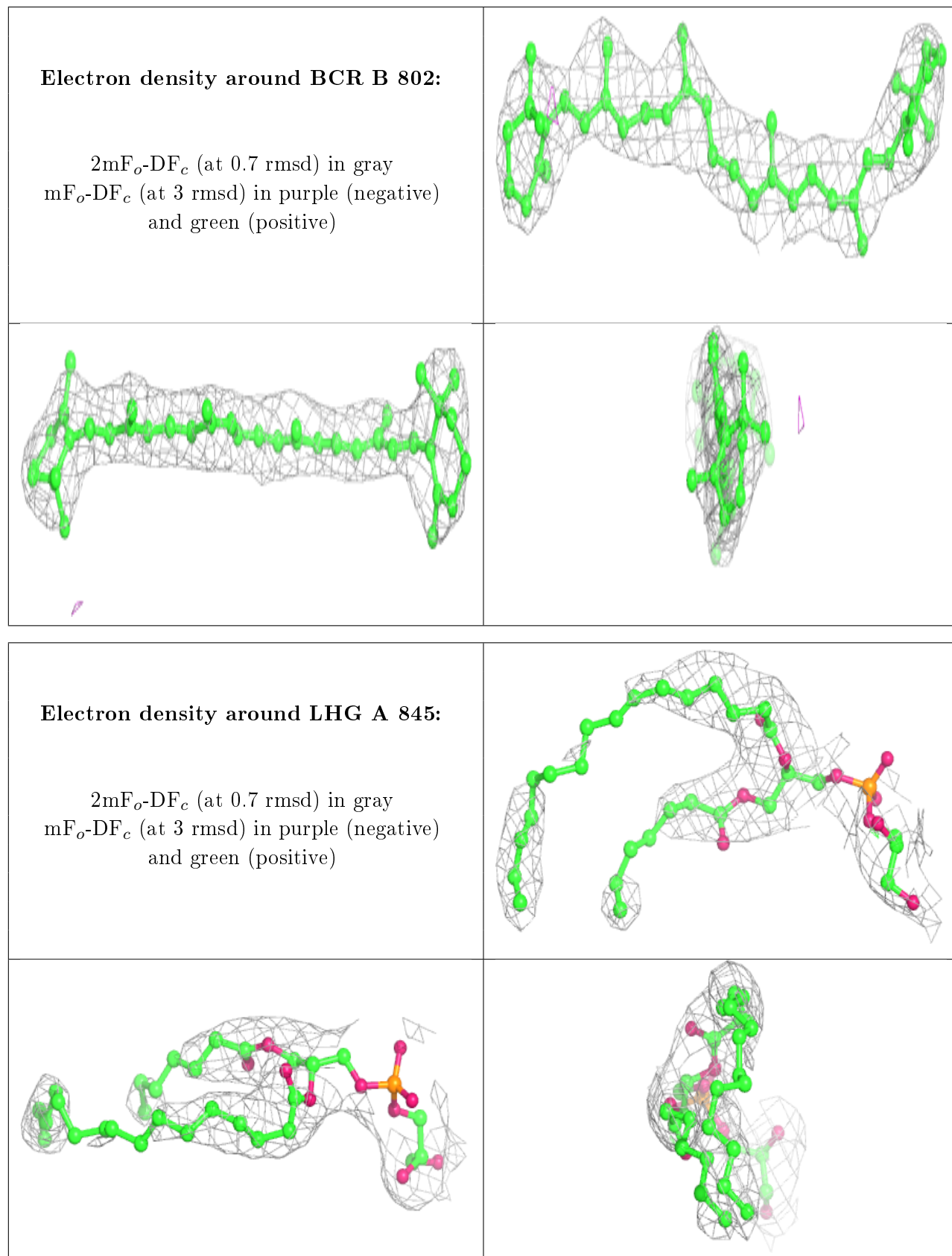
Electron density around CHL 2 515:

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

**Electron density around BCR J 1108:**

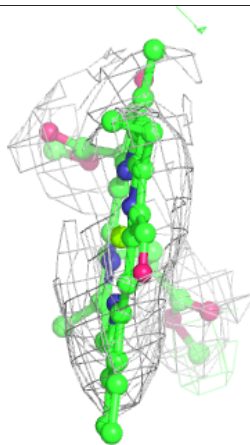
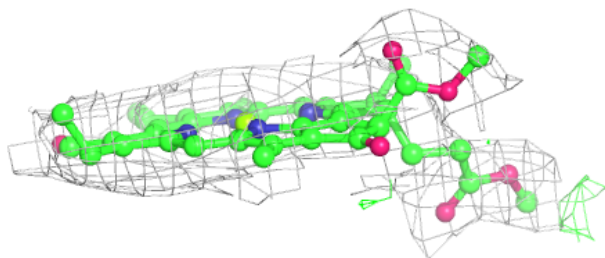
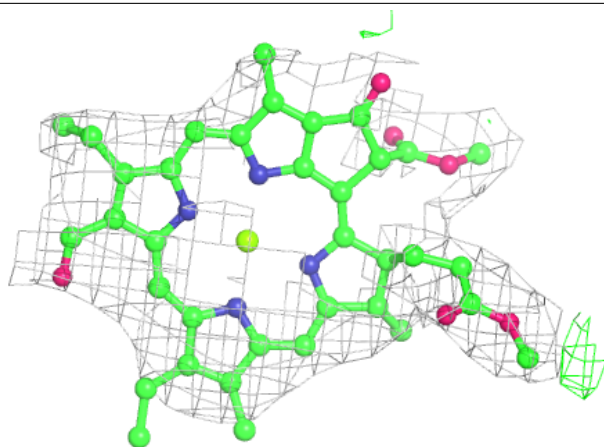
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



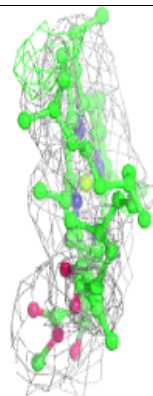
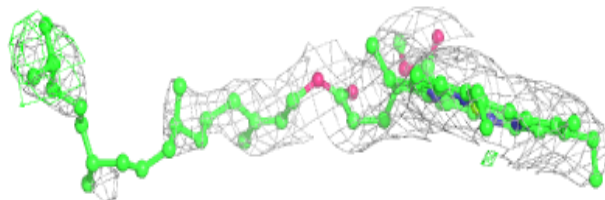
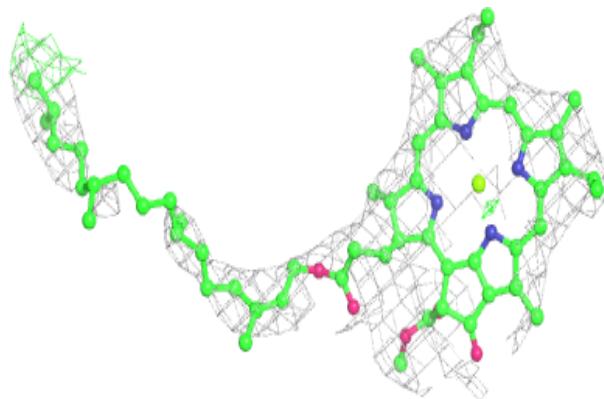


Electron density around CHL 2 512:

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

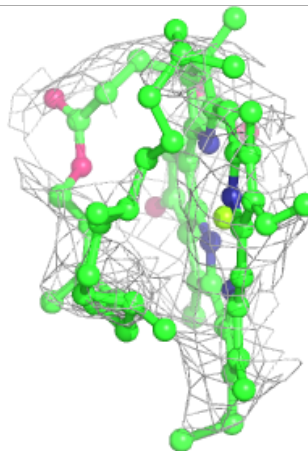
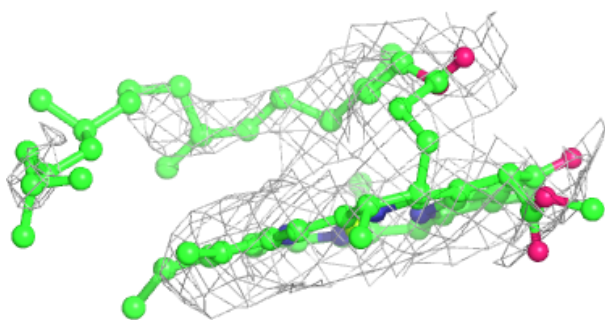
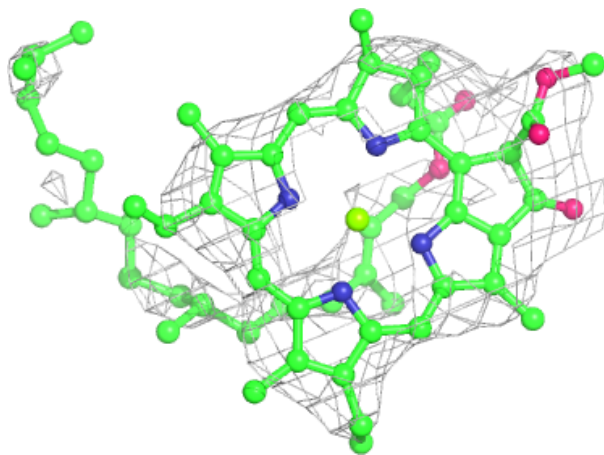
**Electron density around CLA F 303:**

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



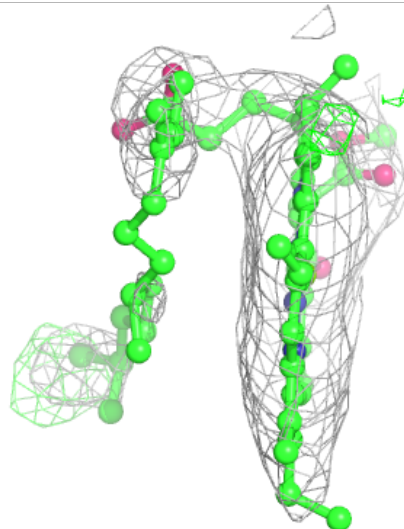
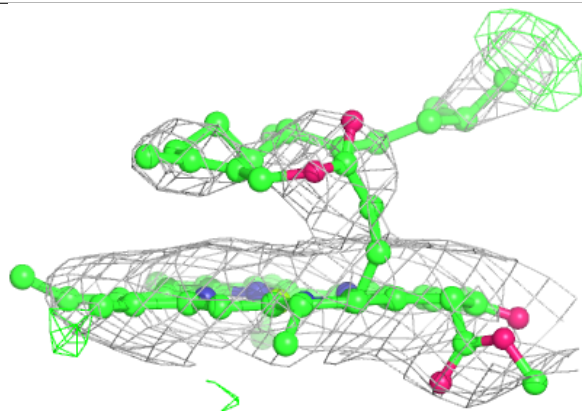
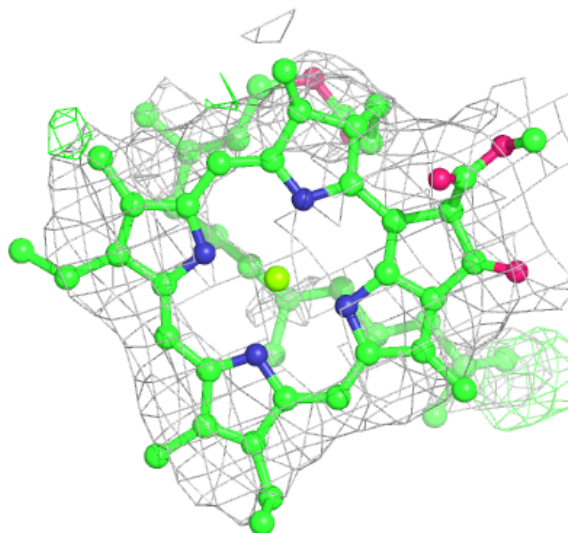
Electron density around CLA 2 506:

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



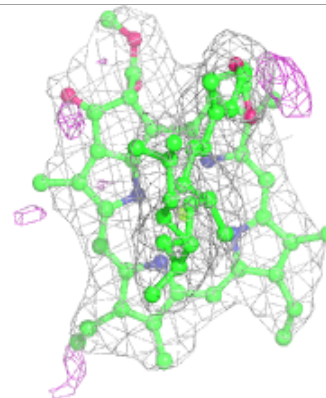
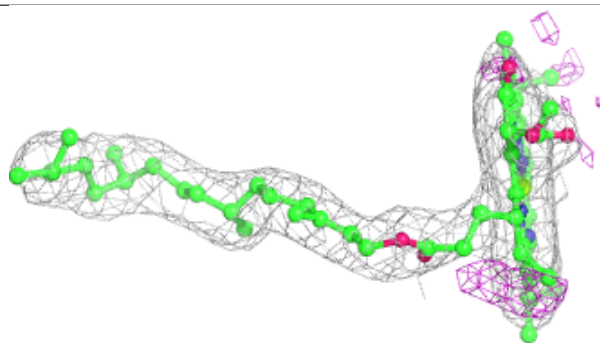
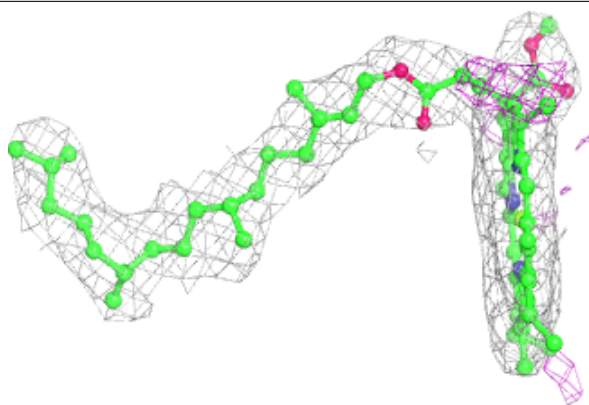
Electron density around CLA 3 313:

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

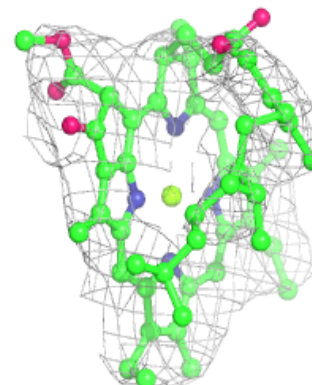
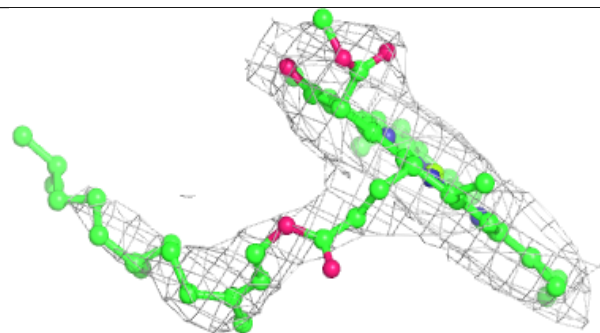
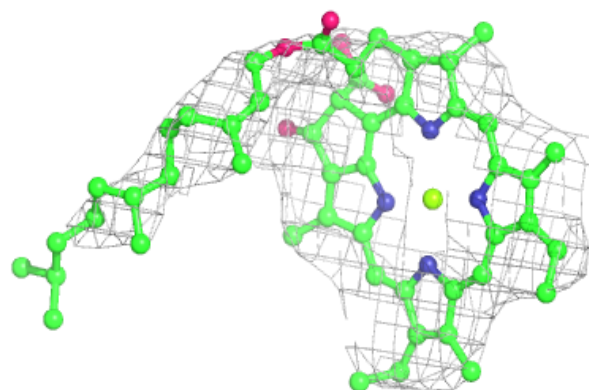


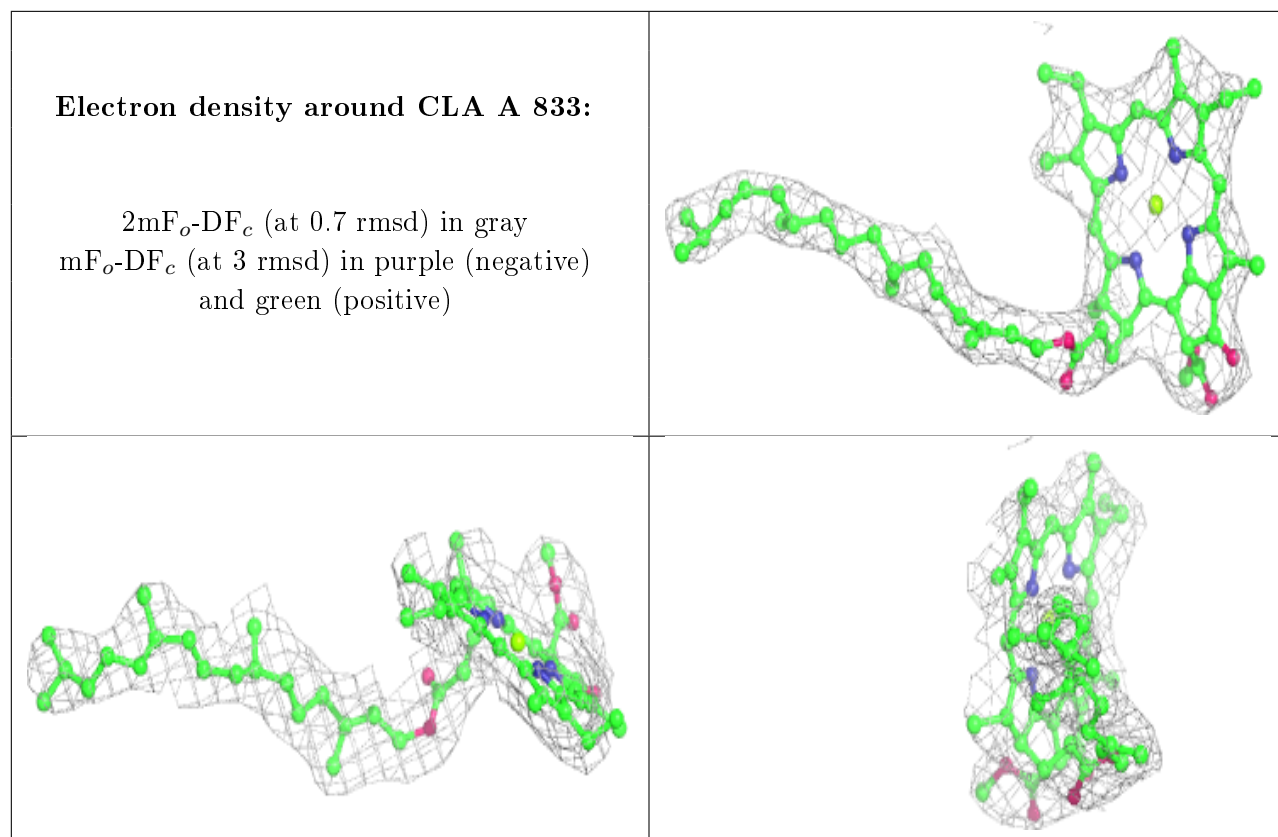
Electron density around CLA B 839:

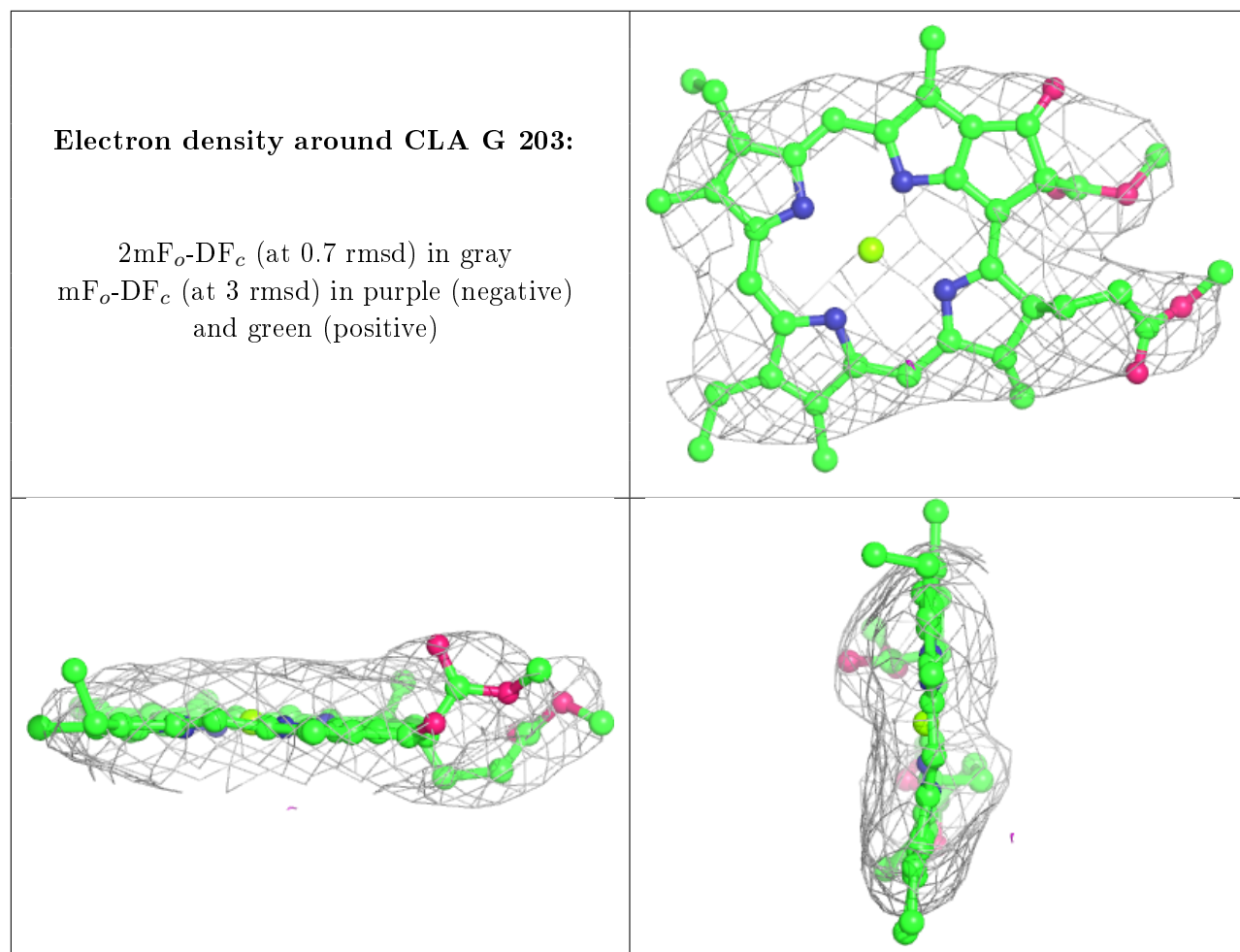
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA A 822:**

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

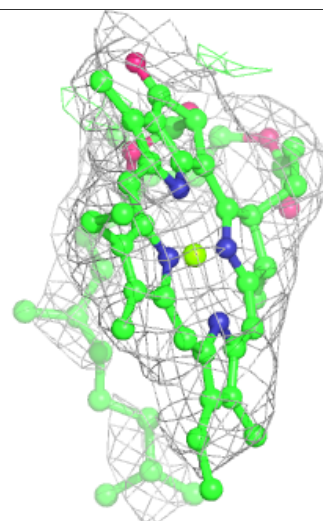
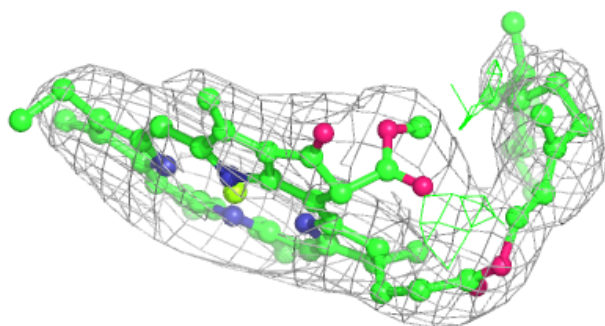
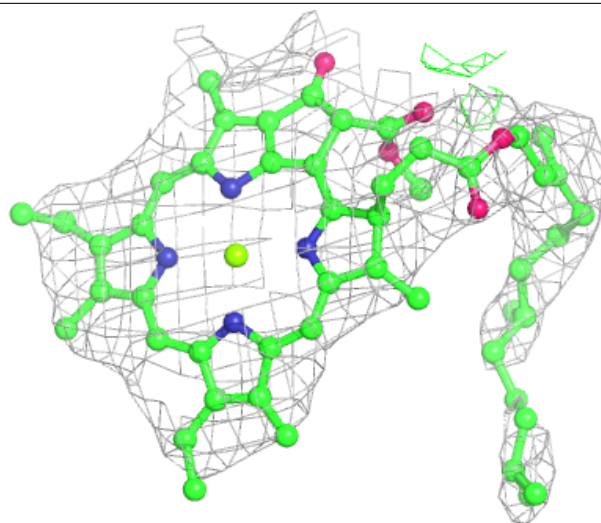






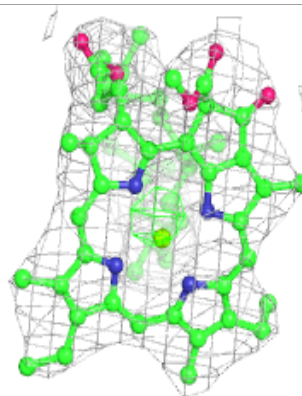
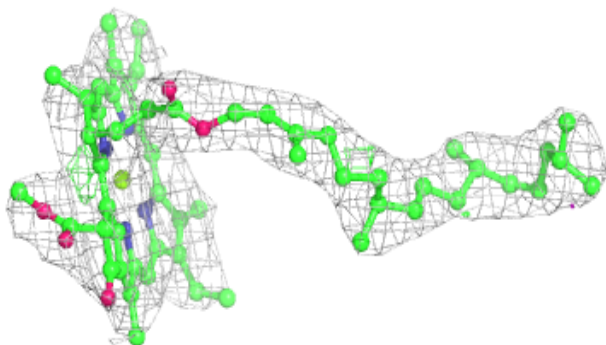
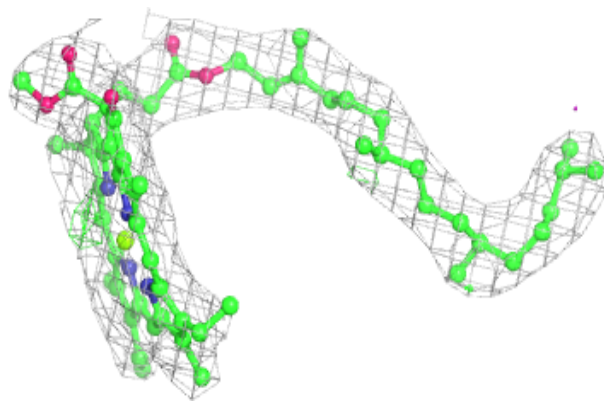
Electron density around CLA 4 308:

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

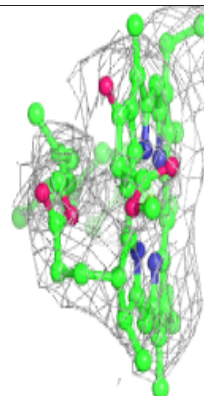
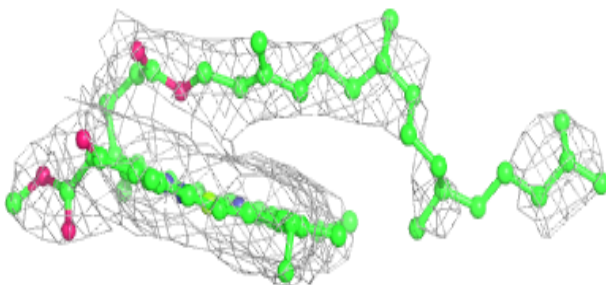
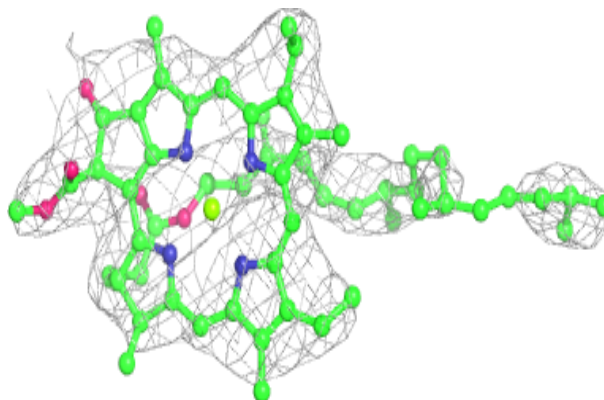


Electron density around CLA A 830:

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

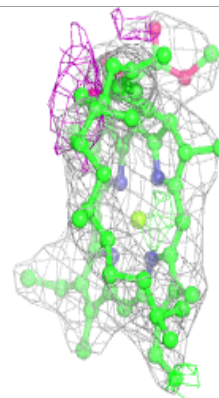
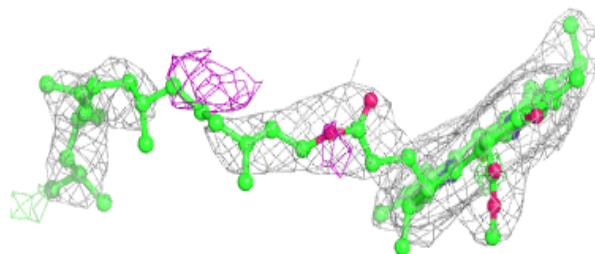
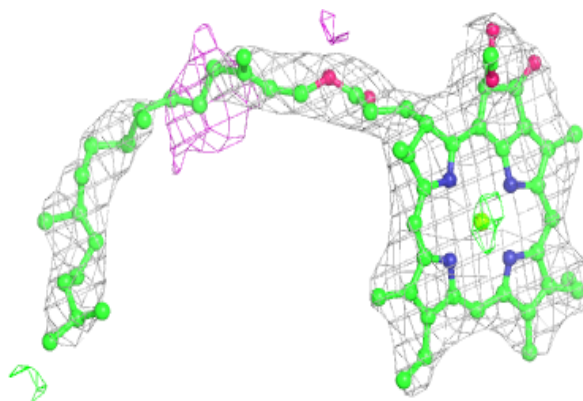
**Electron density around CLA A 837:**

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

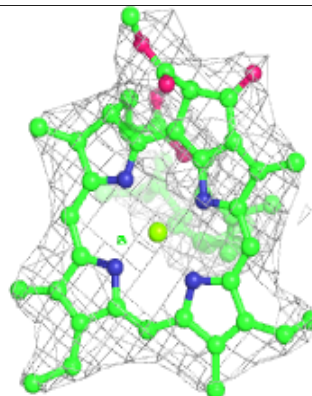
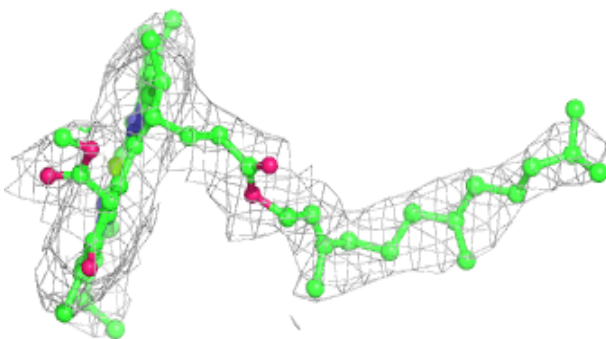
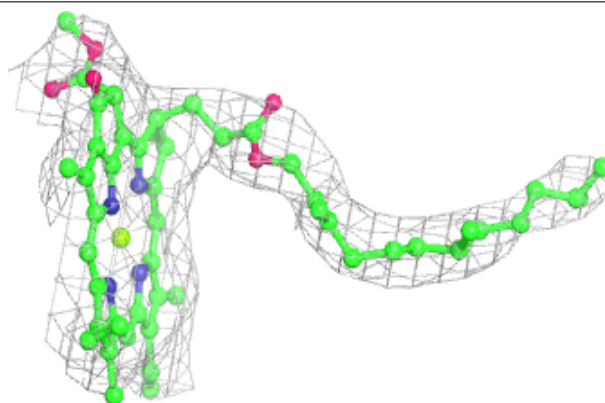


Electron density around CLA B 825:

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

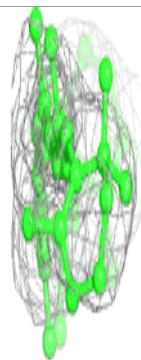
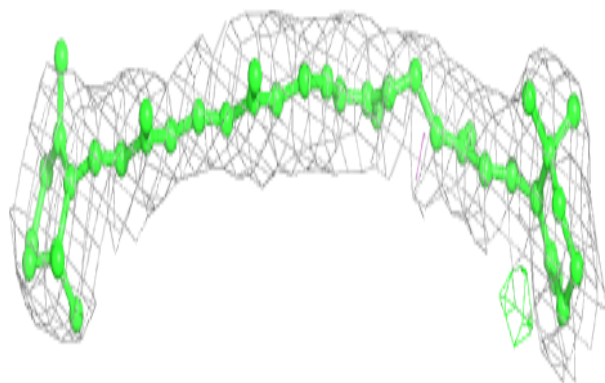
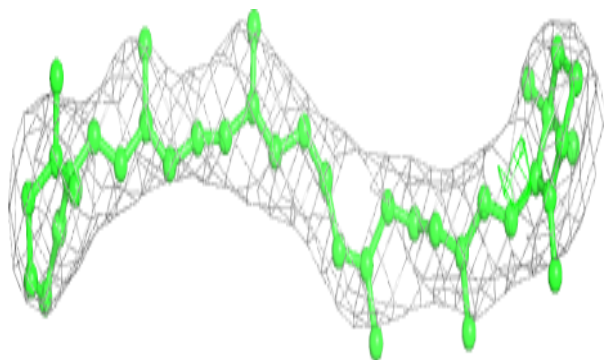
**Electron density around CLA L 304:**

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



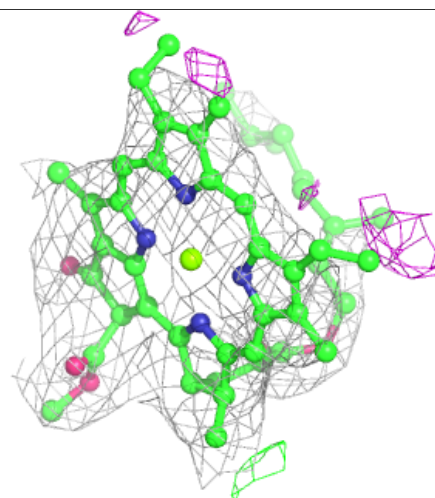
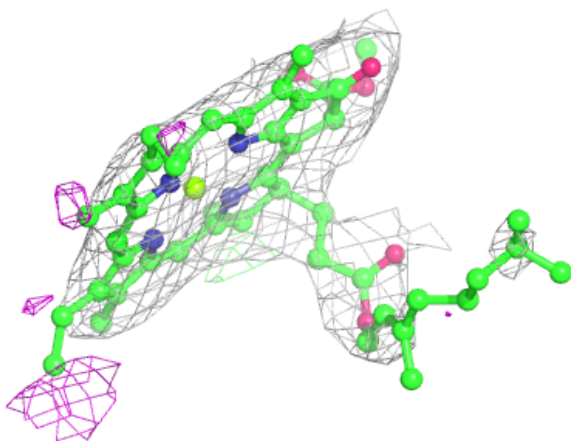
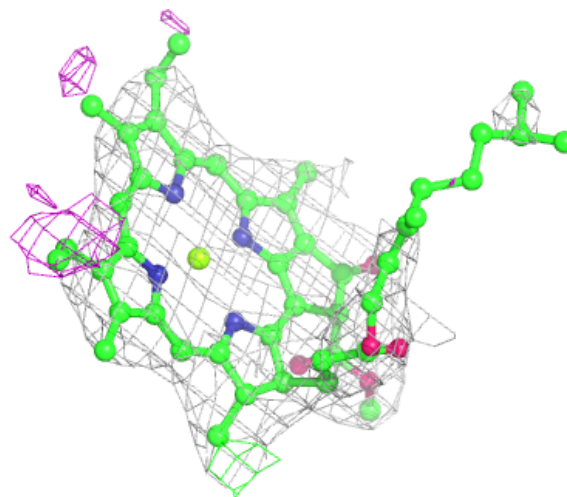
Electron density around BCR I 101:

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



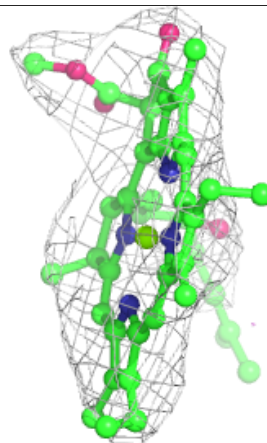
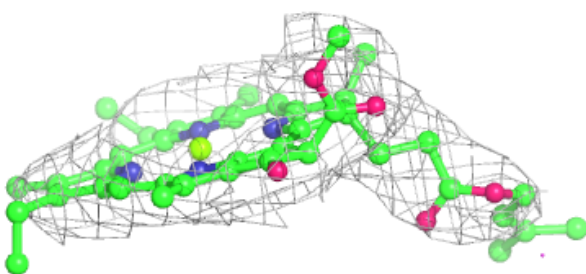
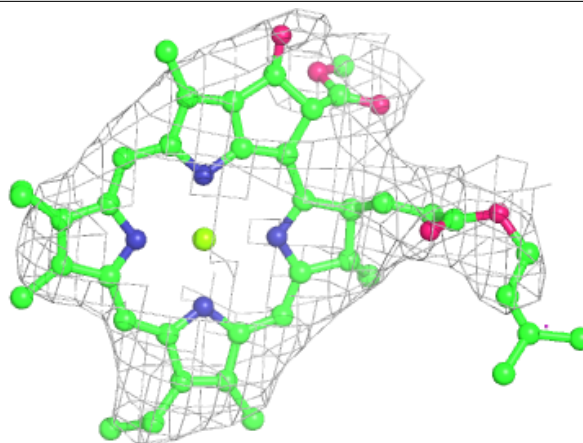
Electron density around CLA 2 514:

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



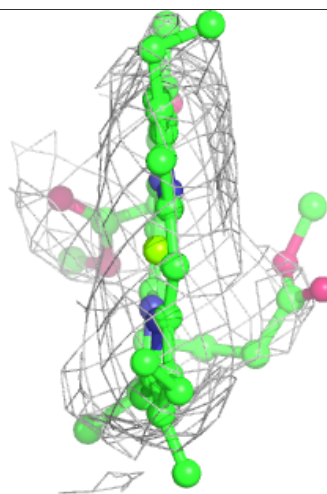
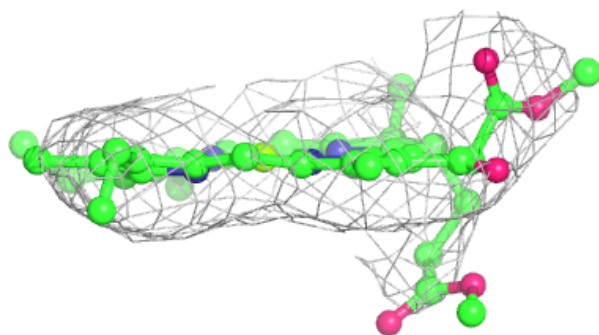
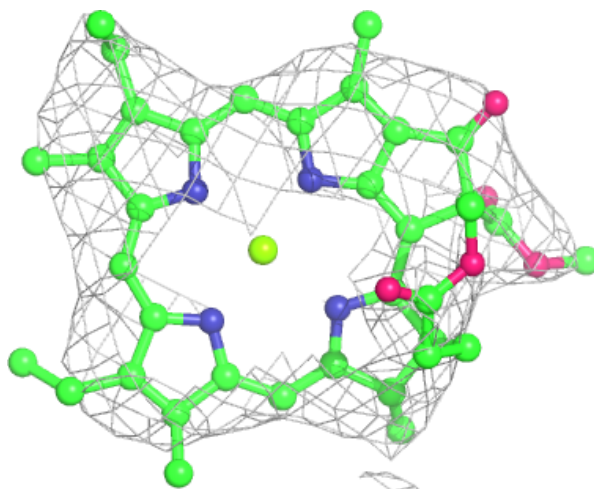
Electron density around CLA 4 312:

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



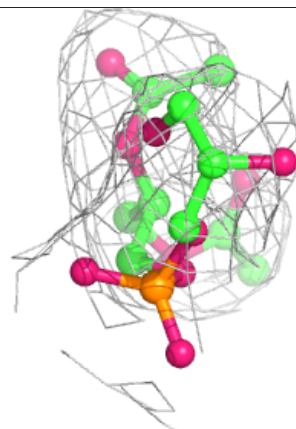
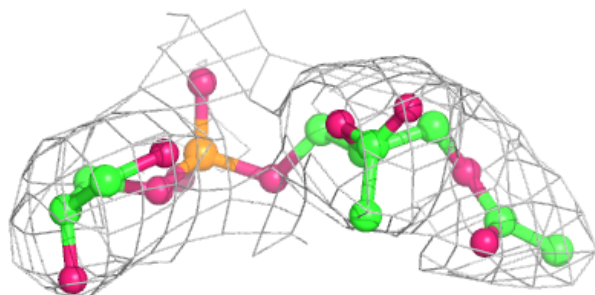
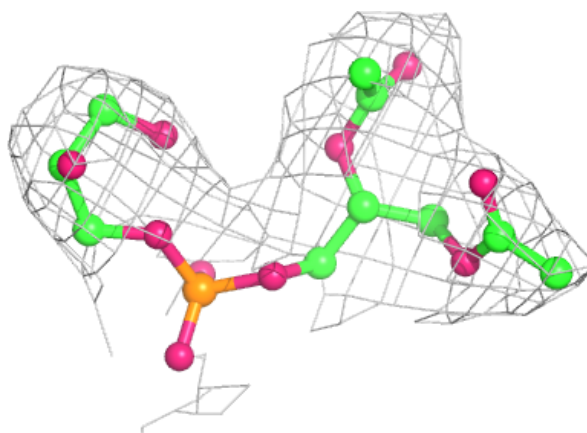
Electron density around CLA 4 311:

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

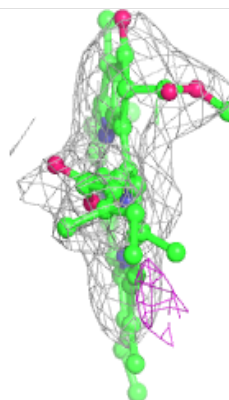
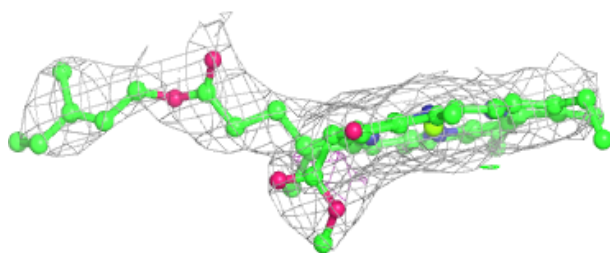
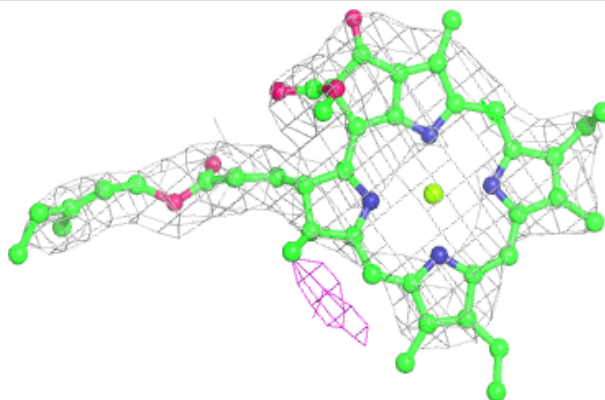


Electron density around LHG B 842:

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

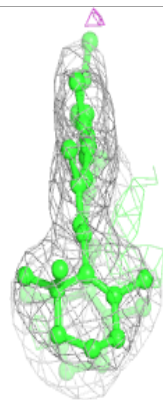
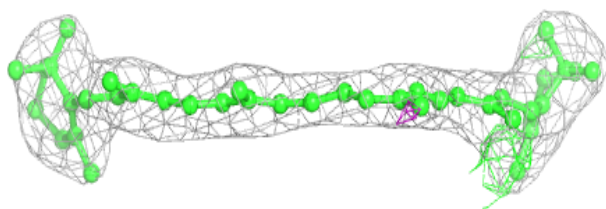
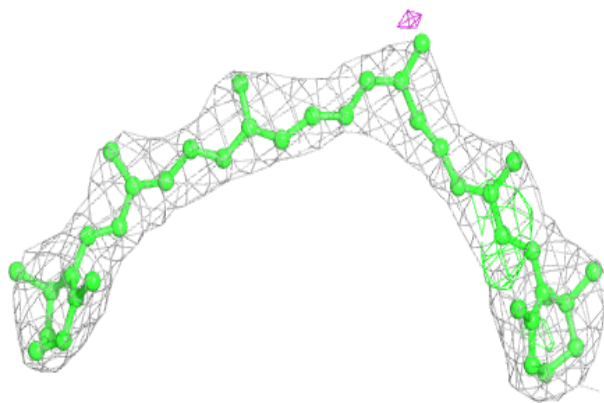
**Electron density around CLA A 836:**

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

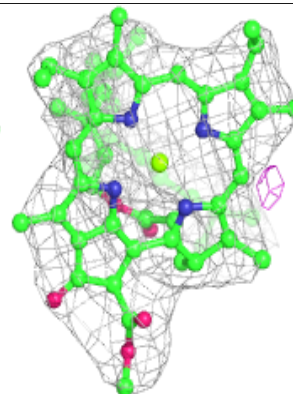
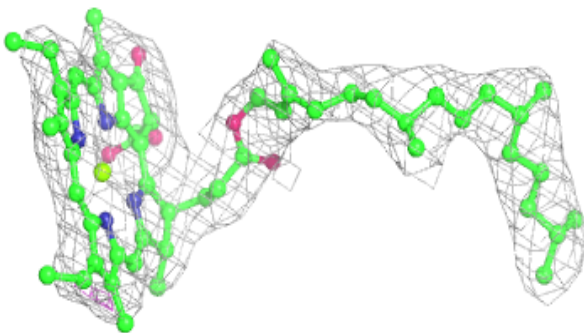
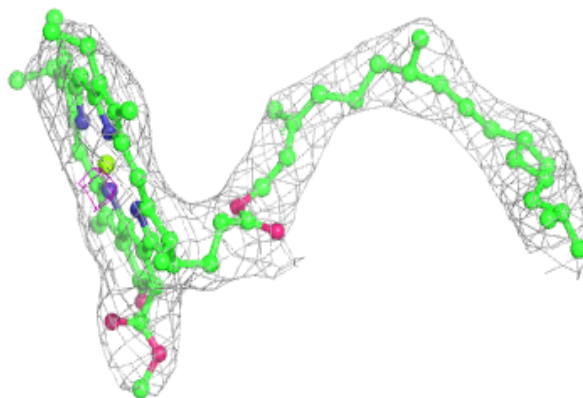


Electron density around BCR F 306:

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

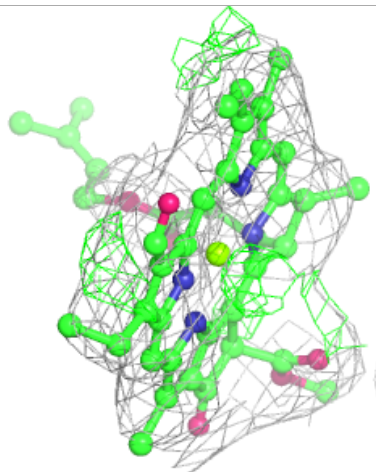
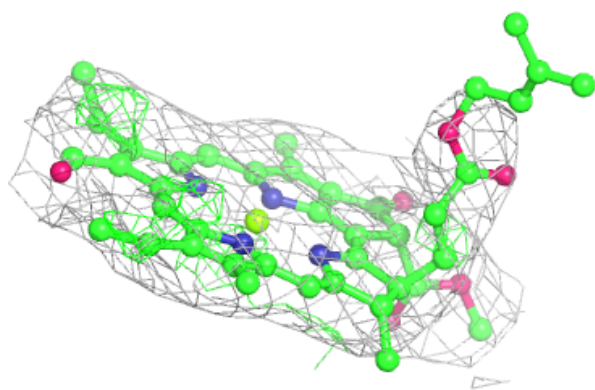
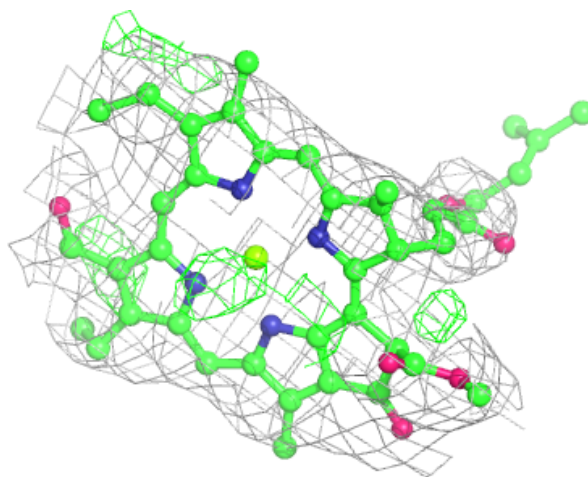
**Electron density around CLA B 838:**

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



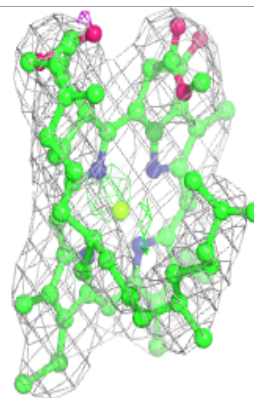
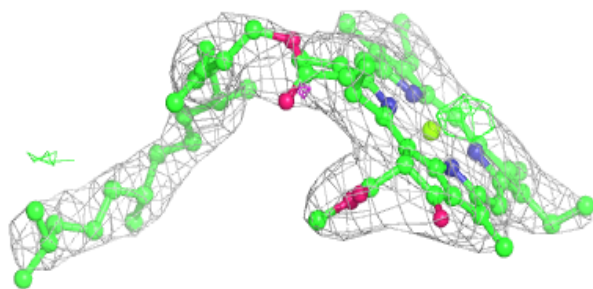
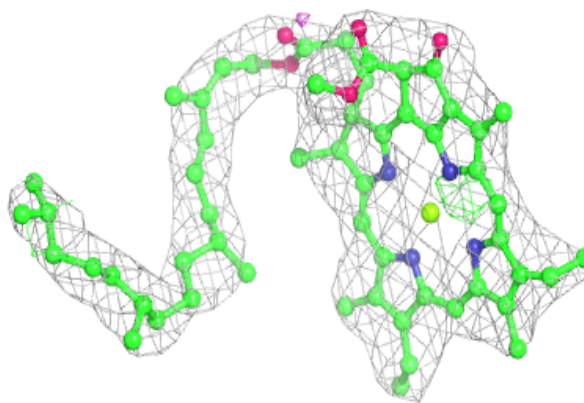
Electron density around CHL 4 314:

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



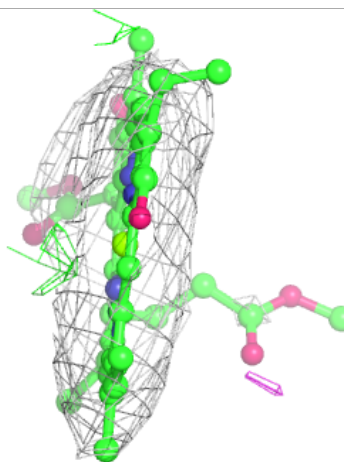
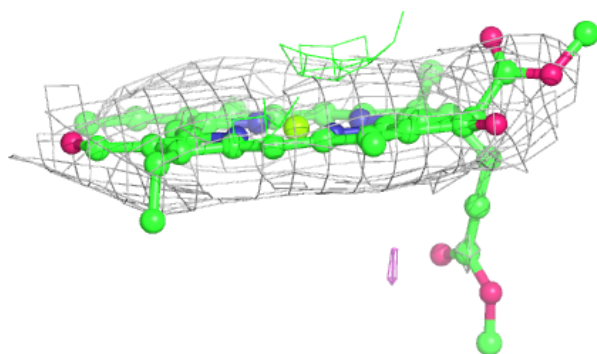
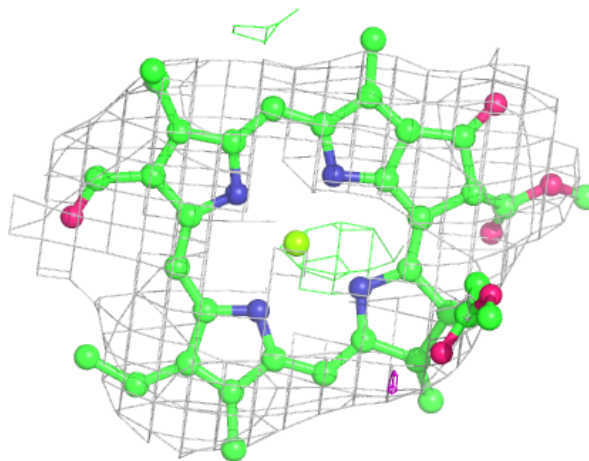
Electron density around CLA B 824:

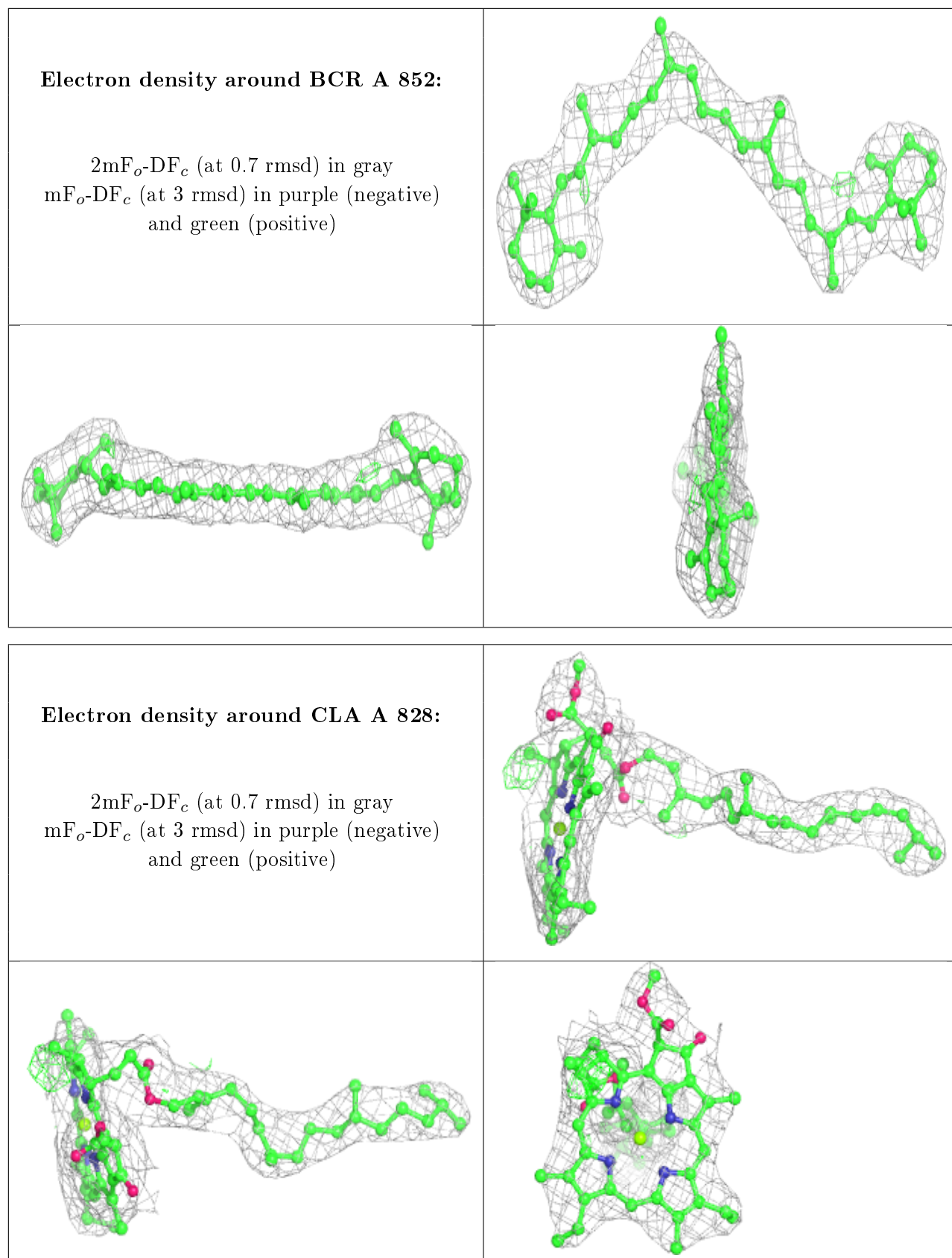
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CHL 3 314:

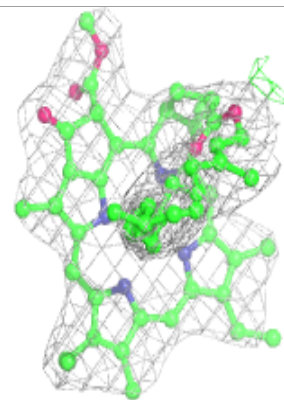
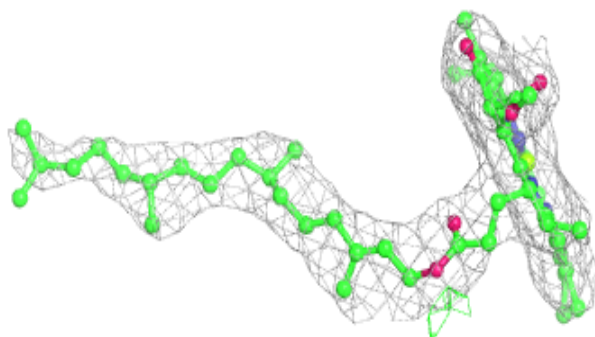
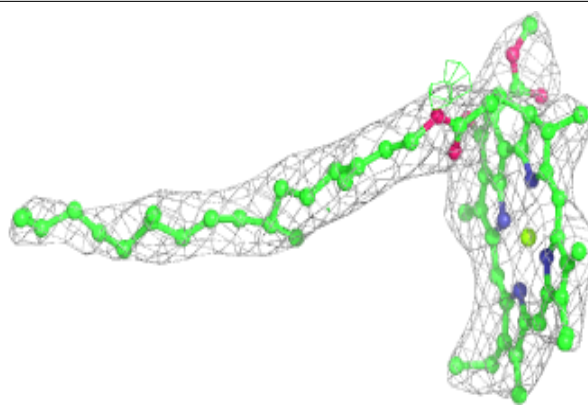
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



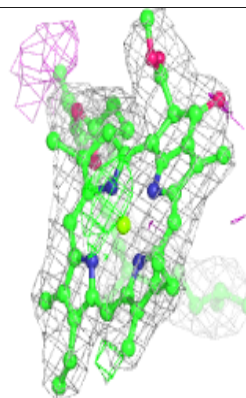
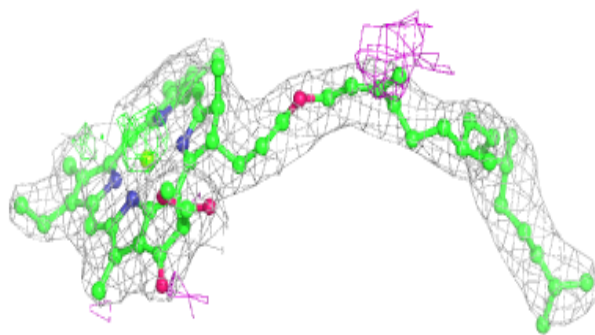
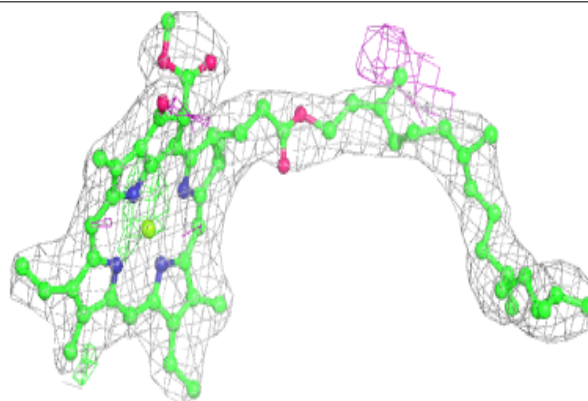


Electron density around CLA B 828:

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

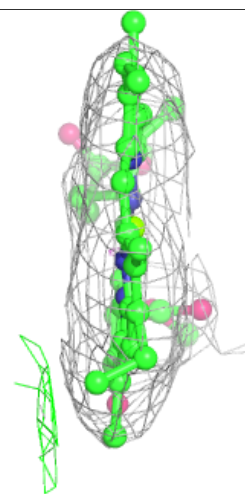
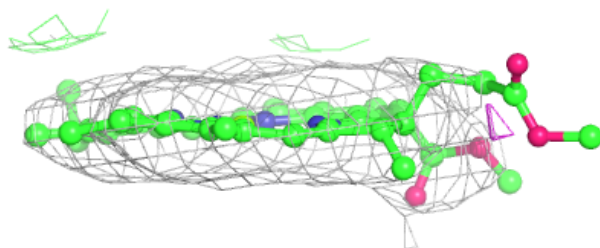
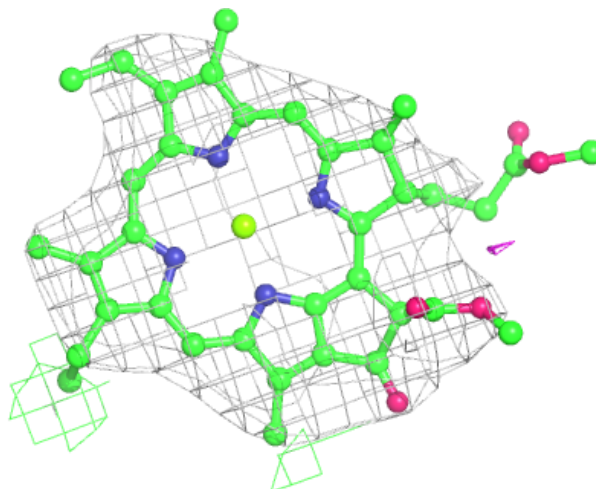
**Electron density around CLA A 854:**

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



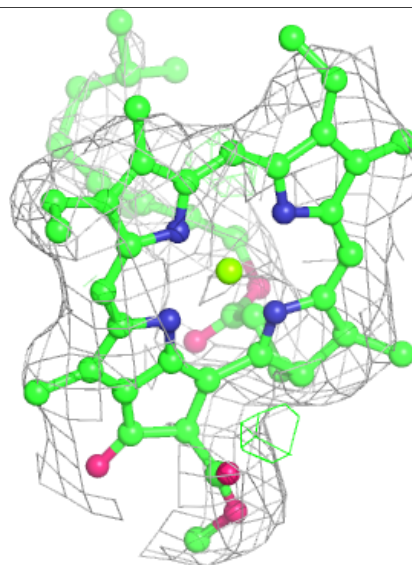
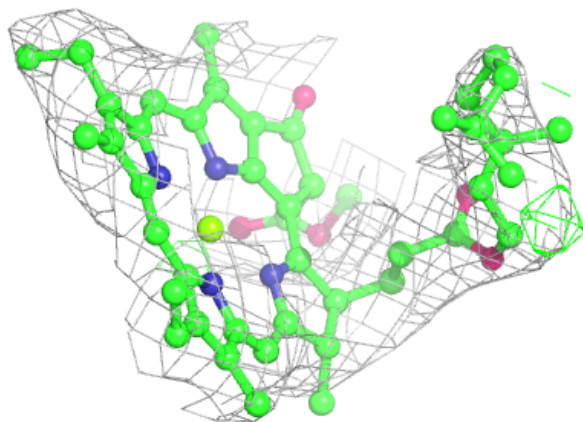
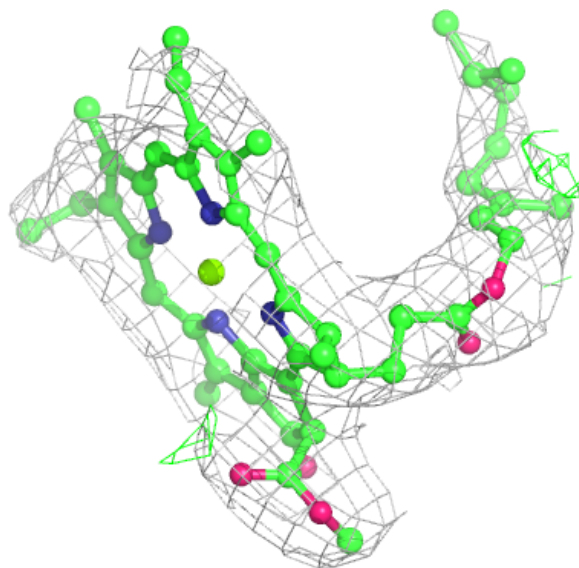
Electron density around CLA 3 317:

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



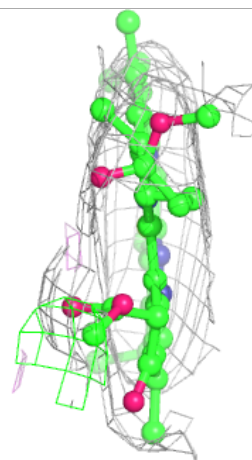
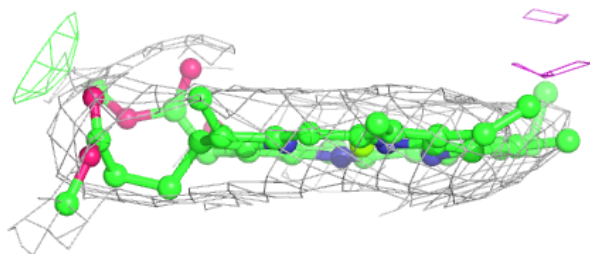
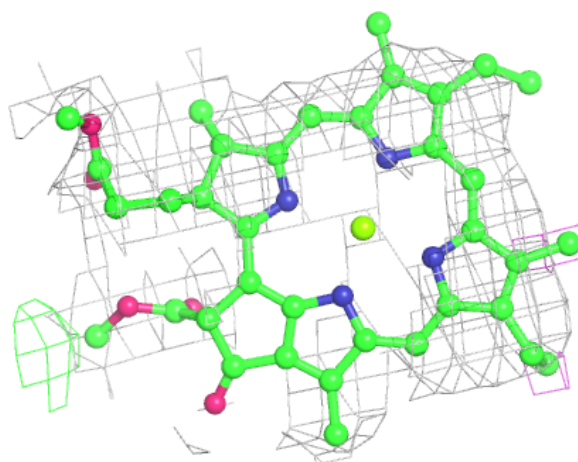
Electron density around CLA B 834:

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



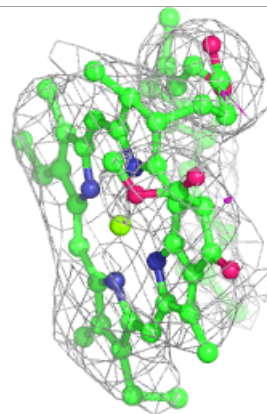
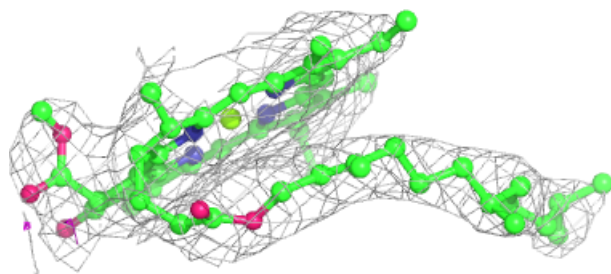
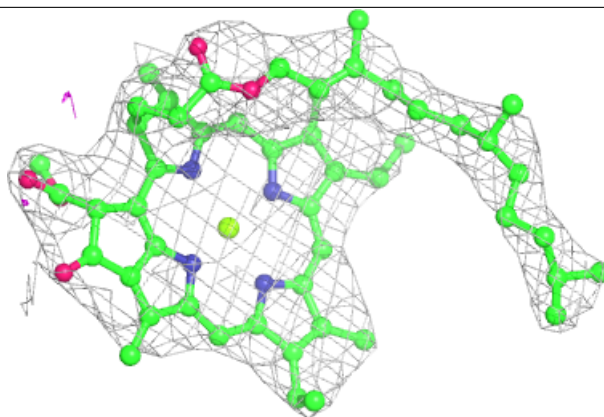
Electron density around CLA 1 505:

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



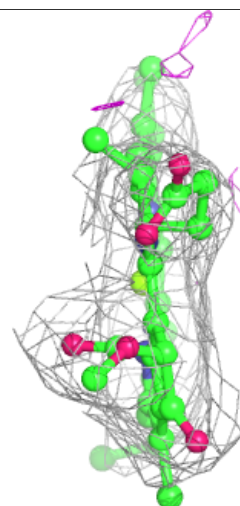
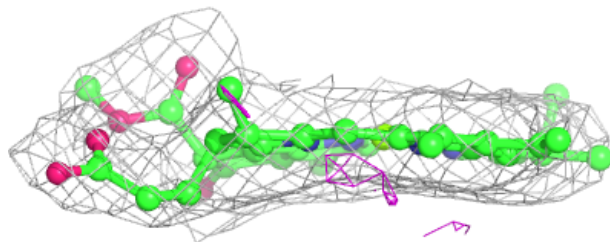
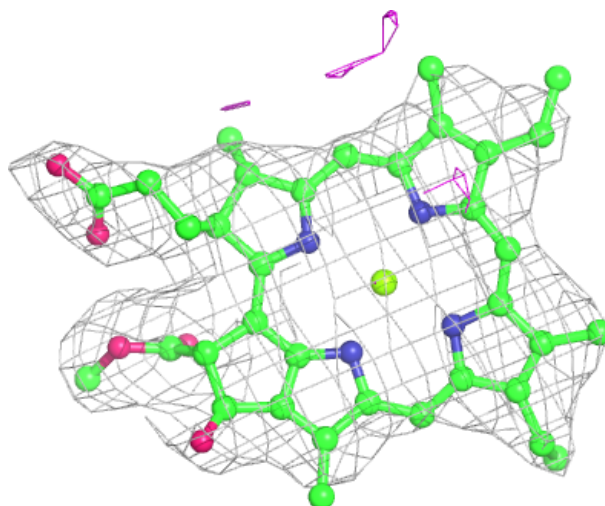
Electron density around CLA 4 307:

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



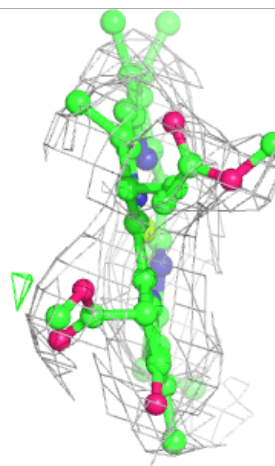
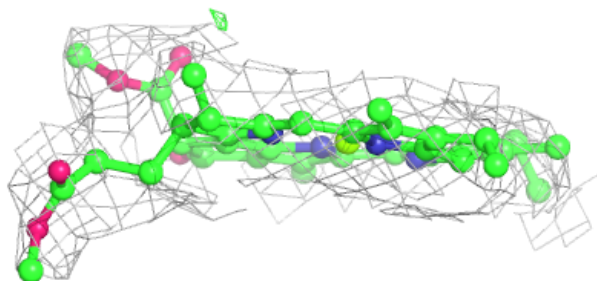
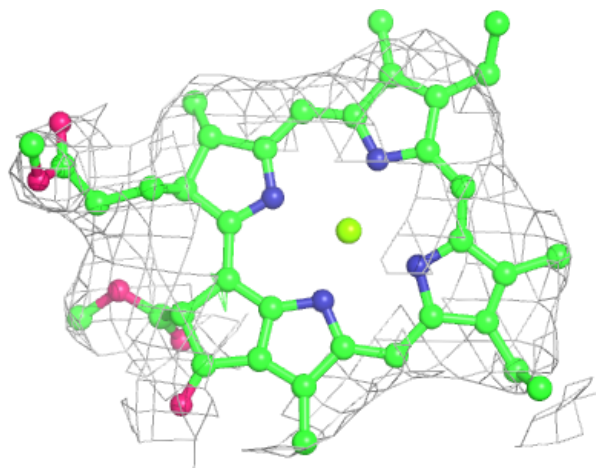
Electron density around CLA J 1102:

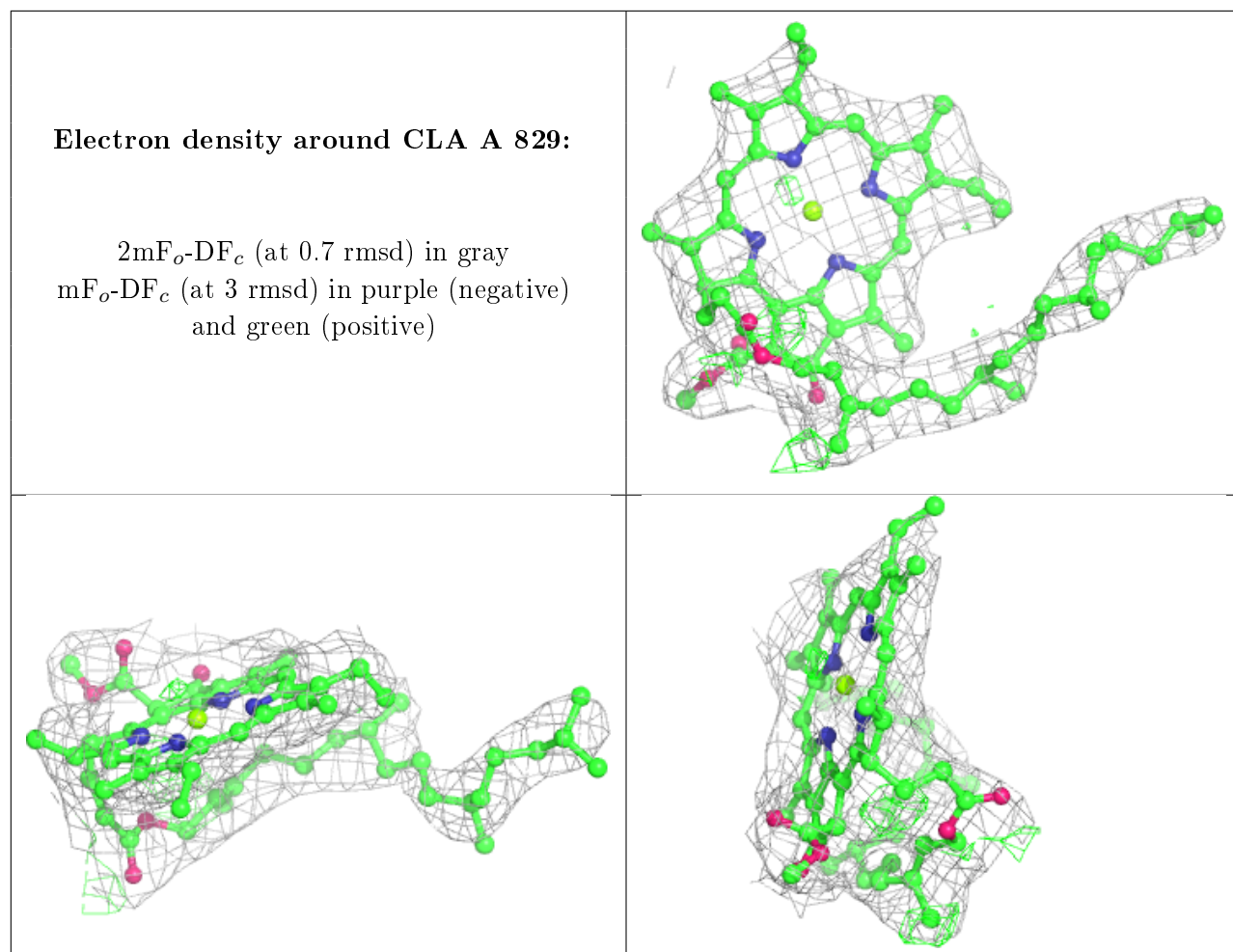
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 3 316:

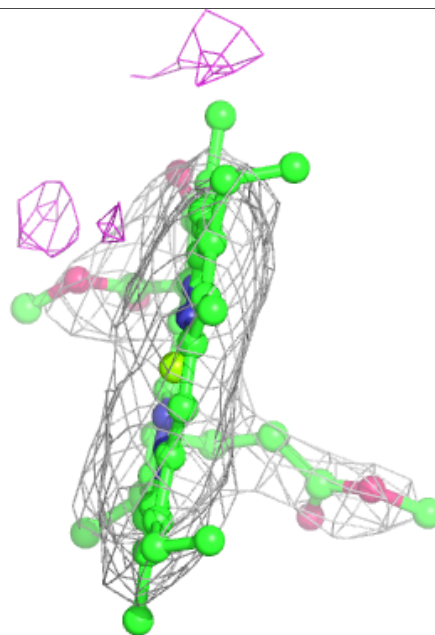
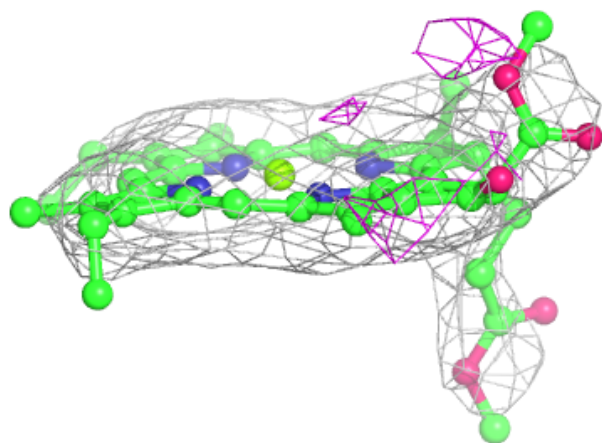
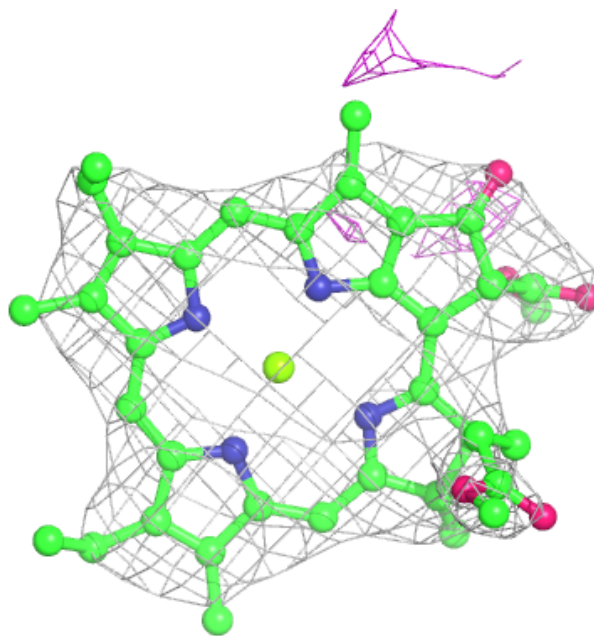
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





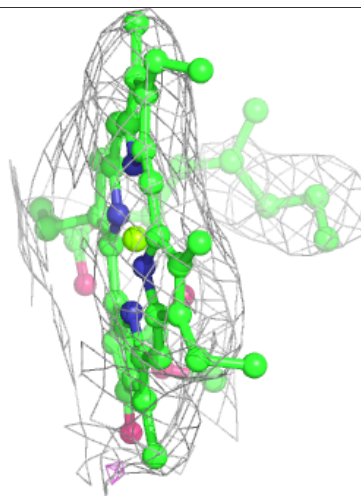
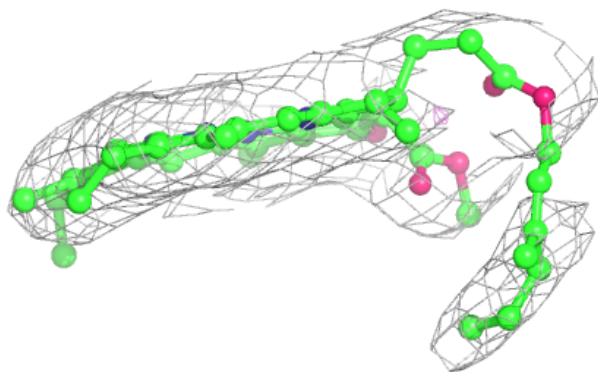
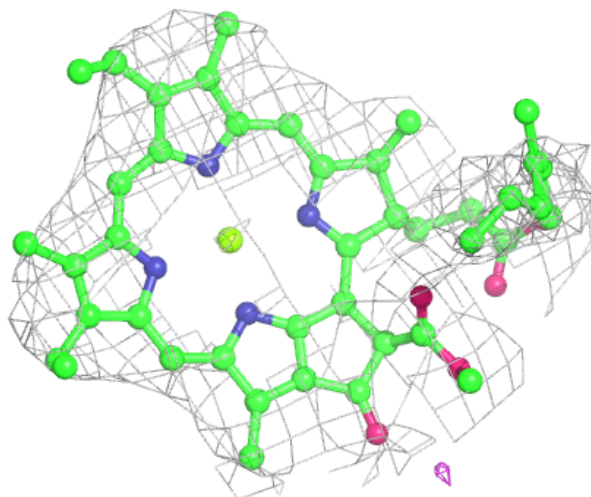
Electron density around CLA B 821:

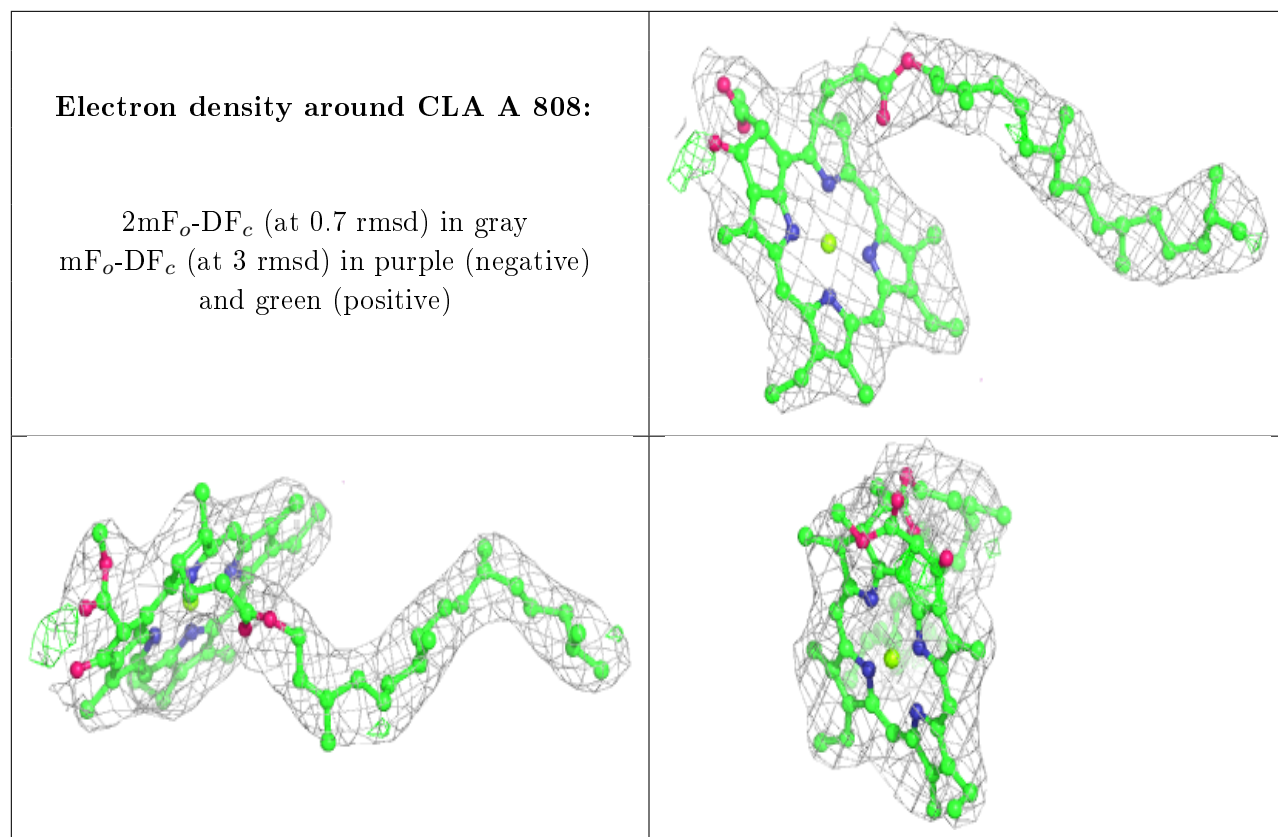
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 2 505:

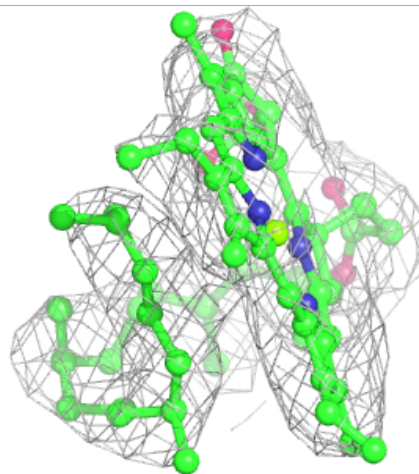
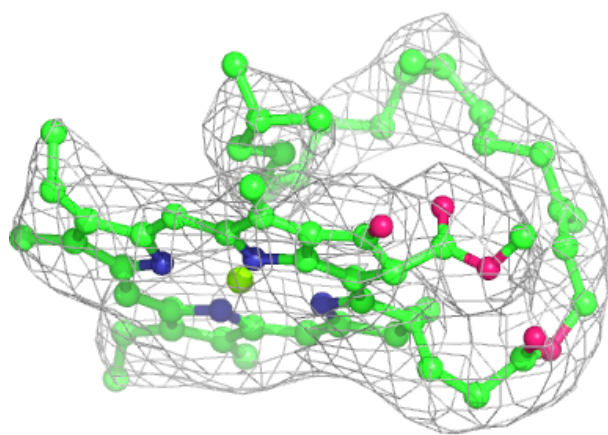
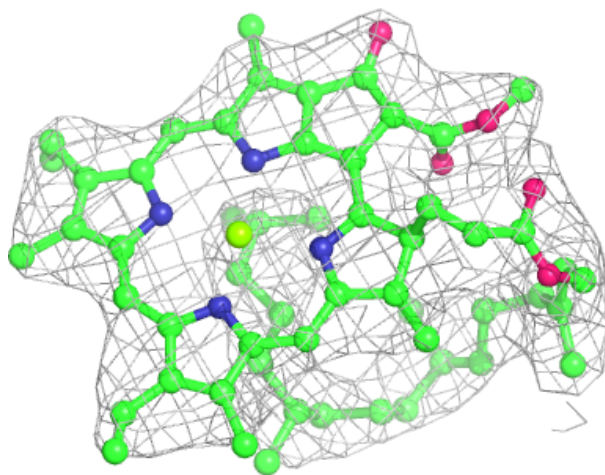
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





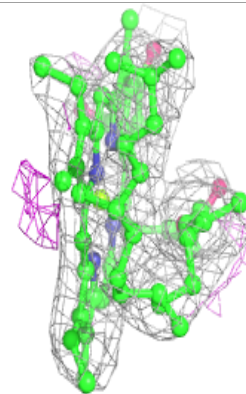
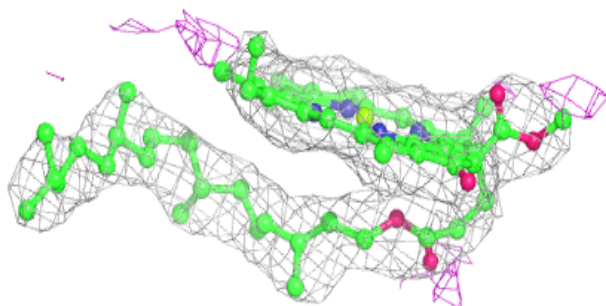
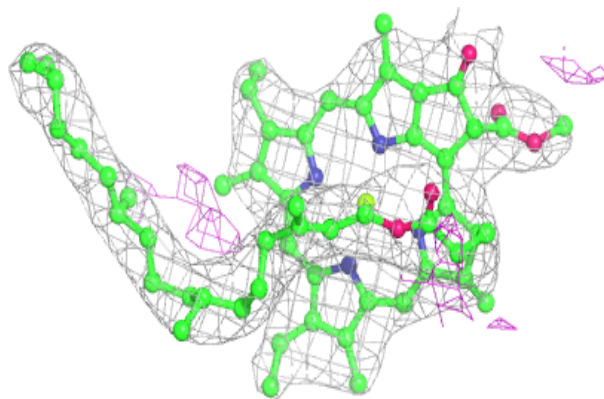
Electron density around CLA B 807:

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

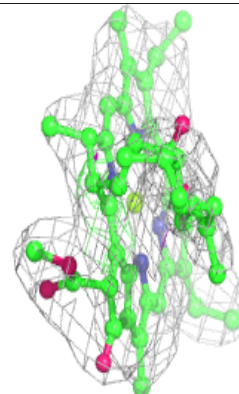
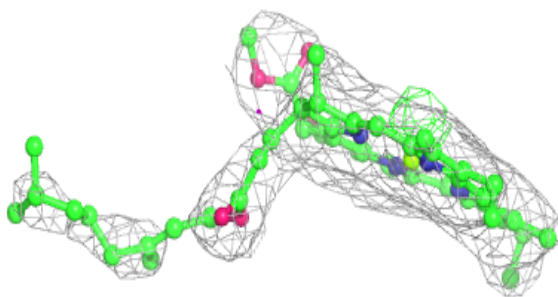
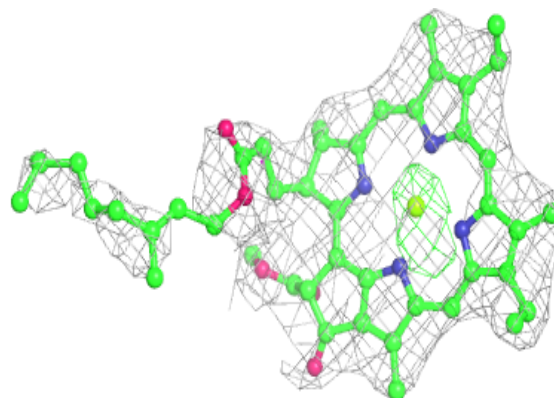


Electron density around CLA B 836:

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

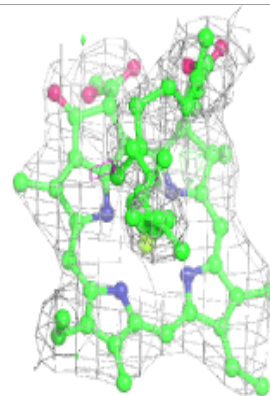
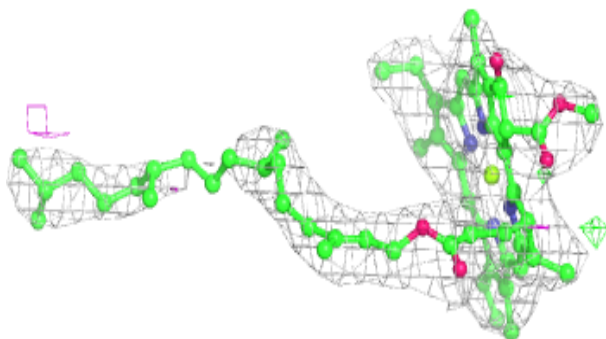
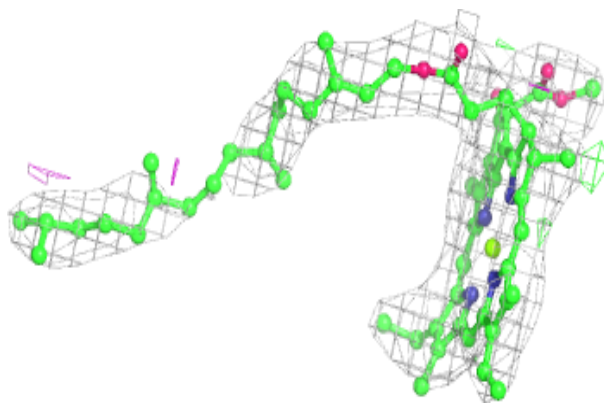
**Electron density around CLA B 823:**

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

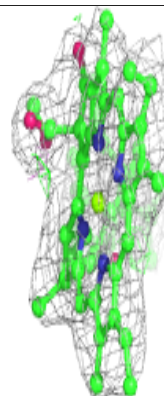
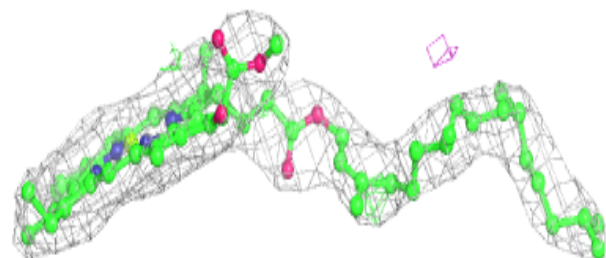
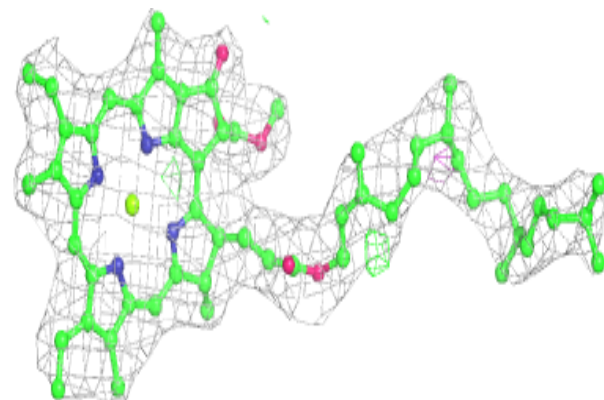


Electron density around CLA B 829:

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

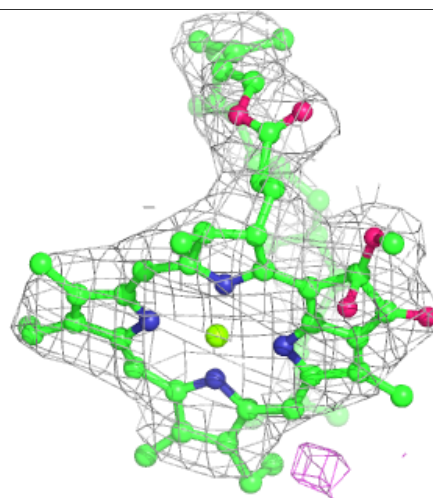
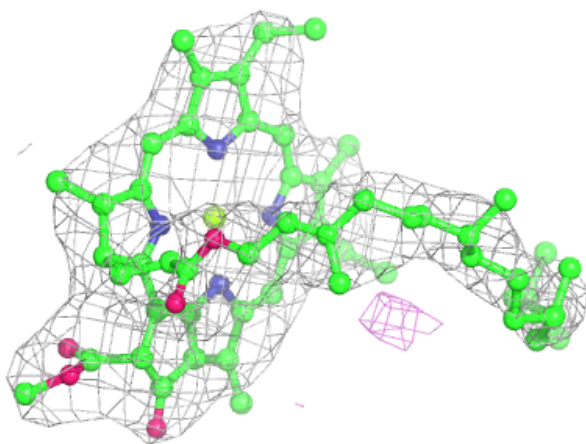
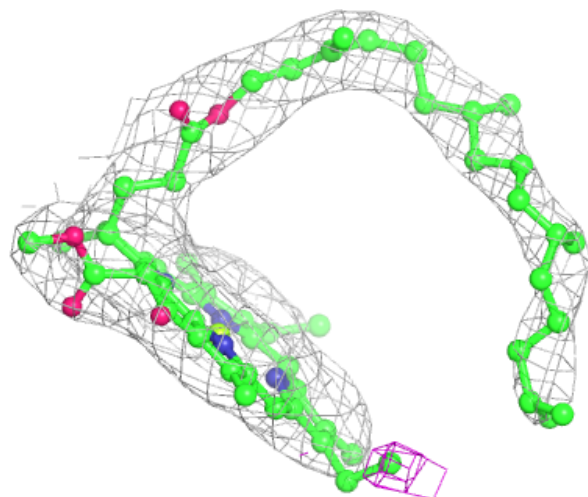
**Electron density around CLA A 840:**

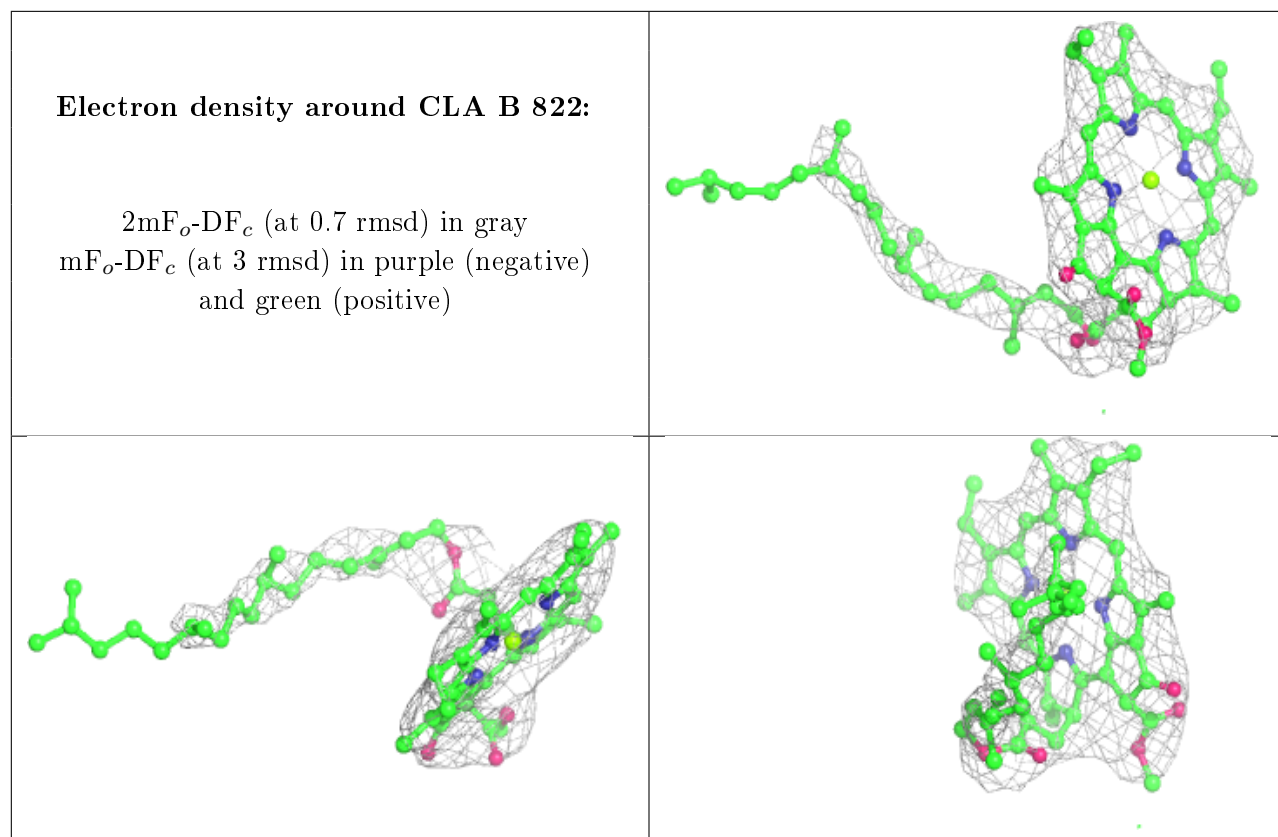
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 820:

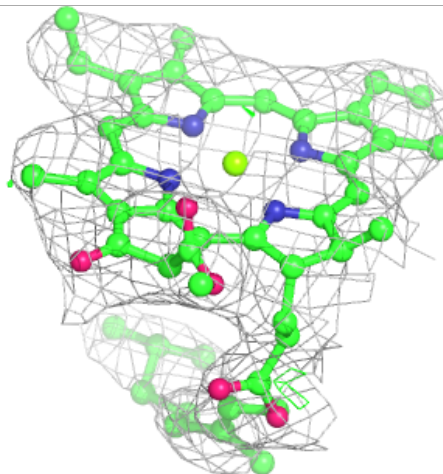
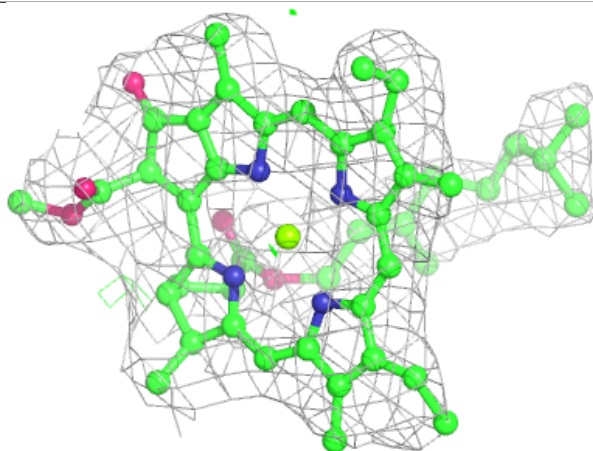
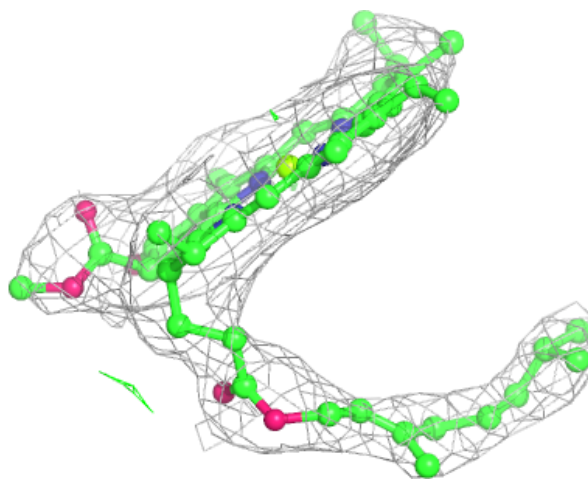
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





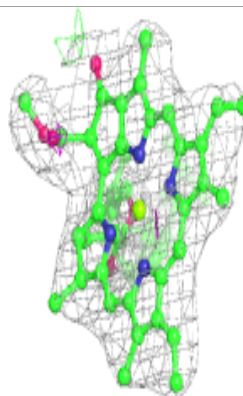
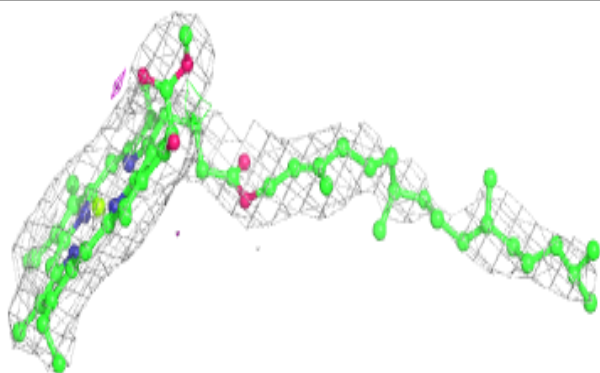
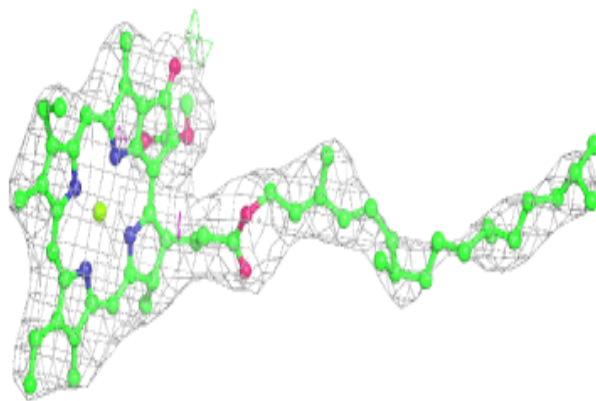
Electron density around CLA L 301:

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

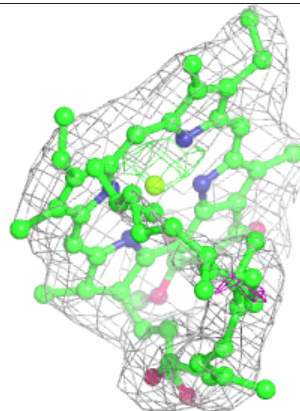
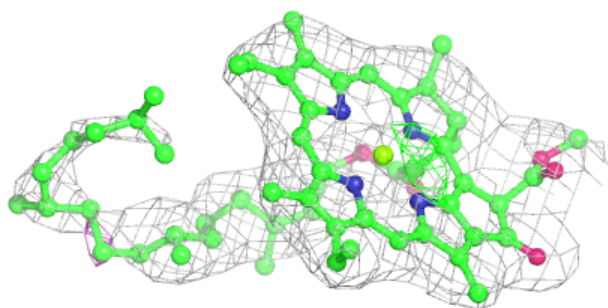
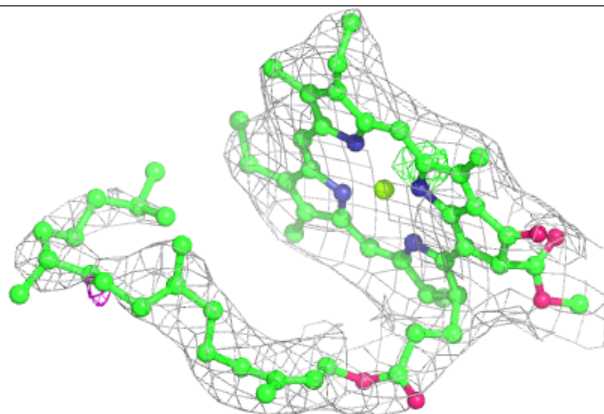


Electron density around CLA A 809:

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

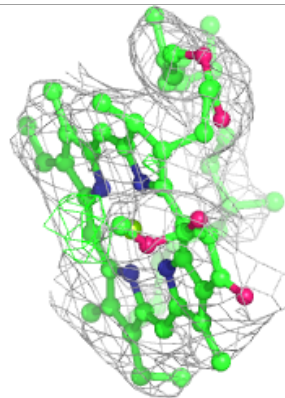
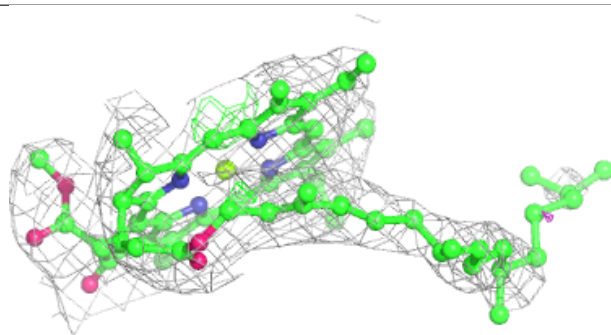
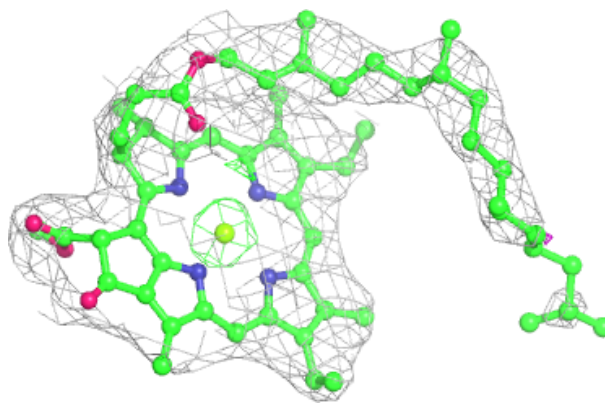
**Electron density around CLA A 824:**

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

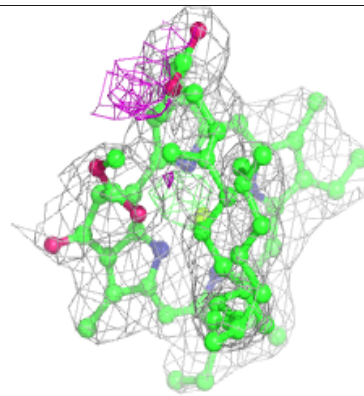
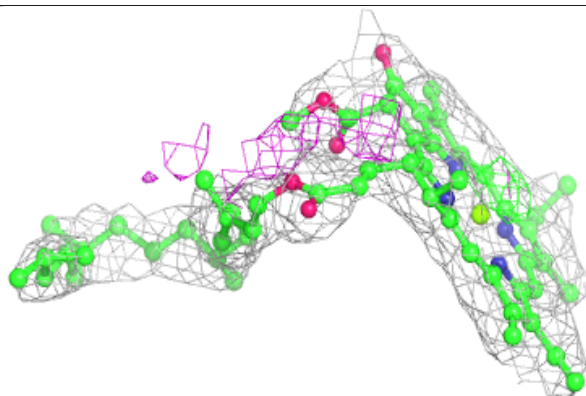
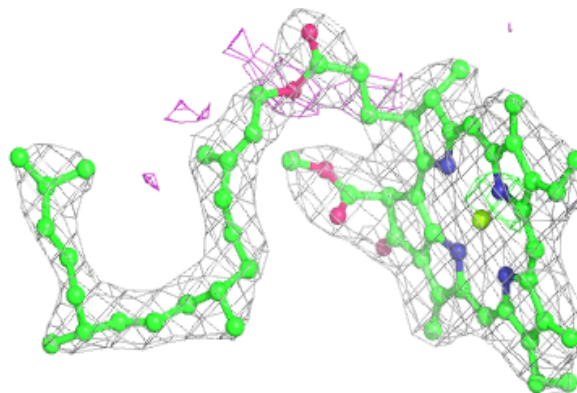


Electron density around CLA 2 507:

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

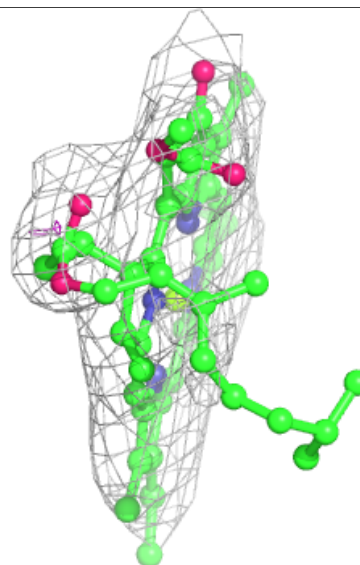
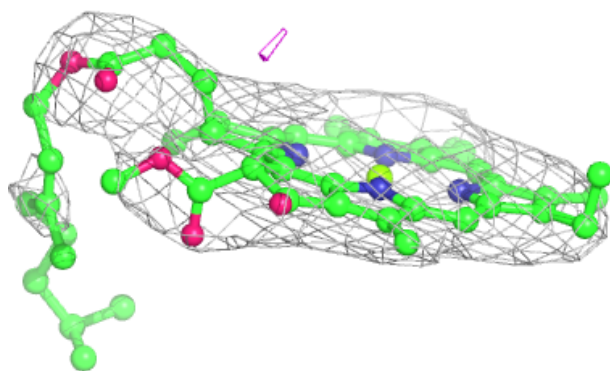
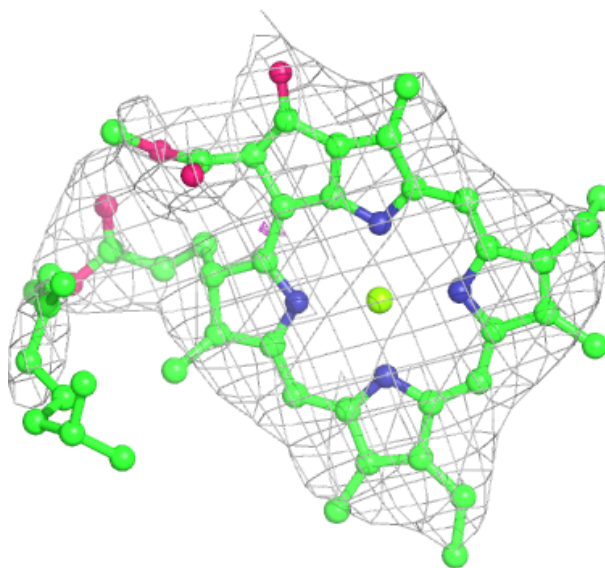
**Electron density around CL0 A 801:**

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



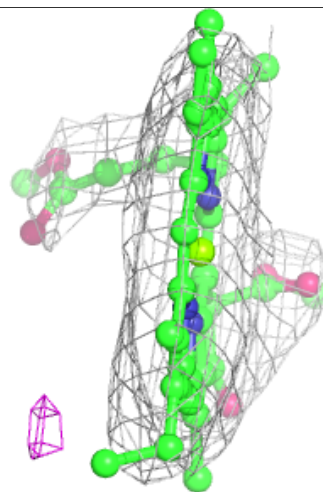
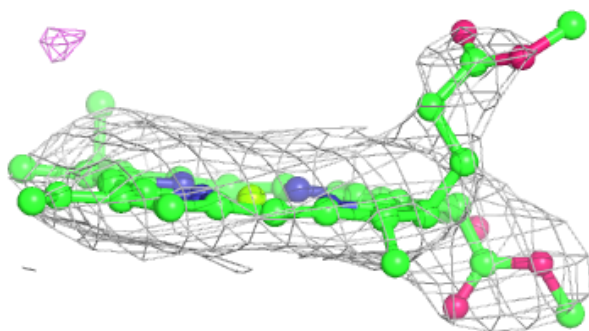
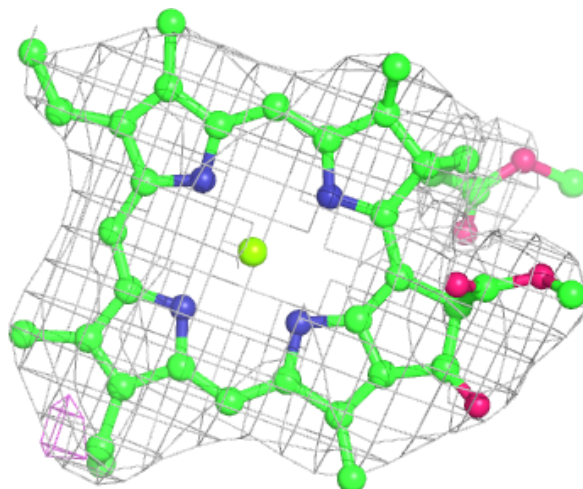
Electron density around CLA 2 508:

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



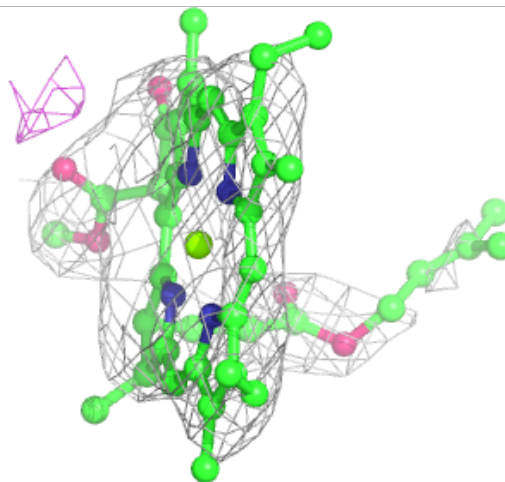
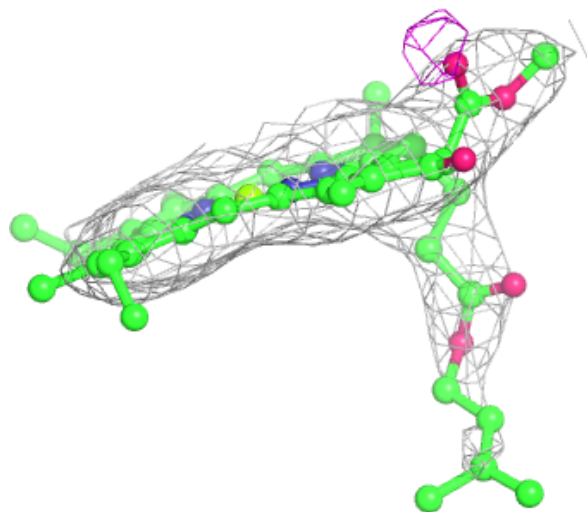
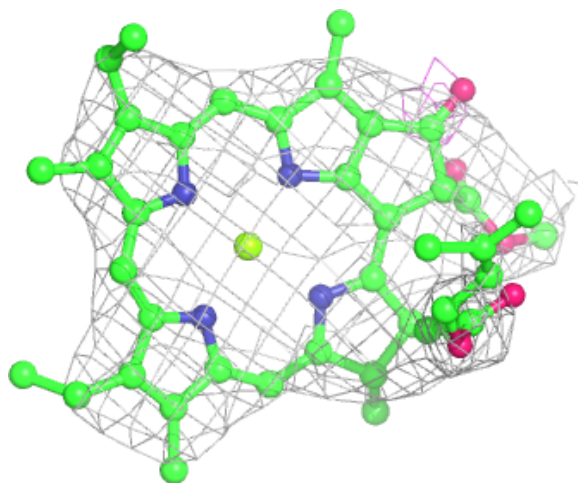
Electron density around CLA B 813:

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



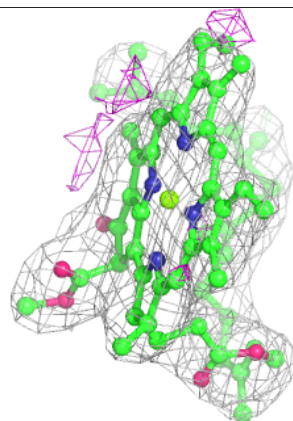
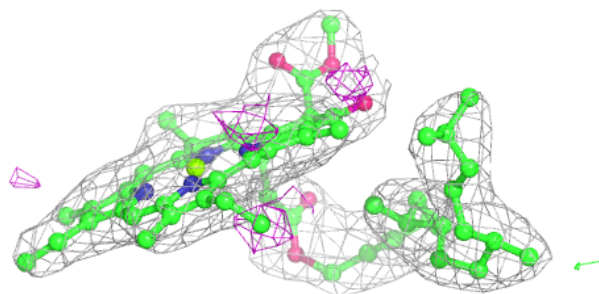
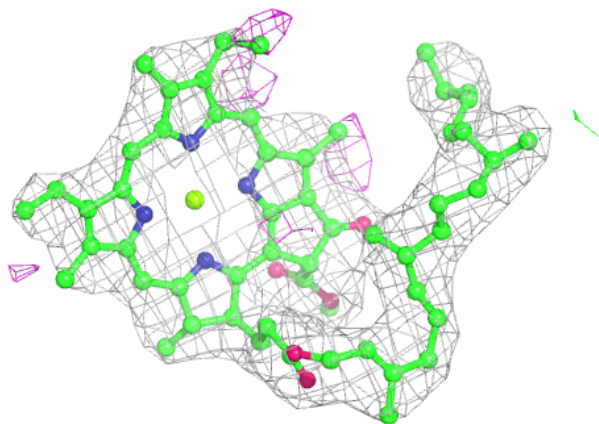
Electron density around CLA A 810:

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



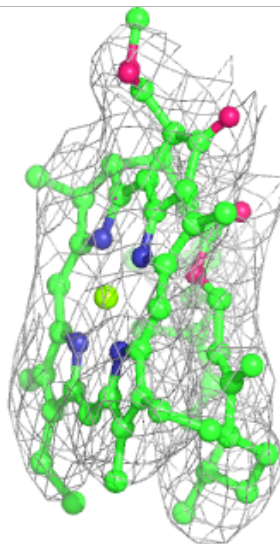
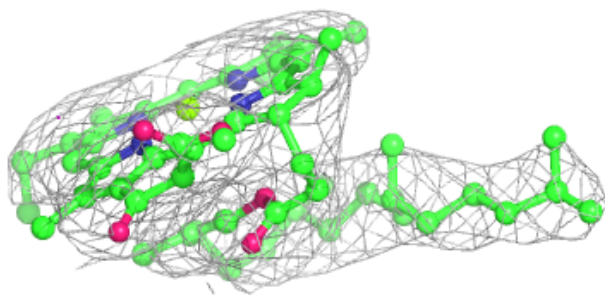
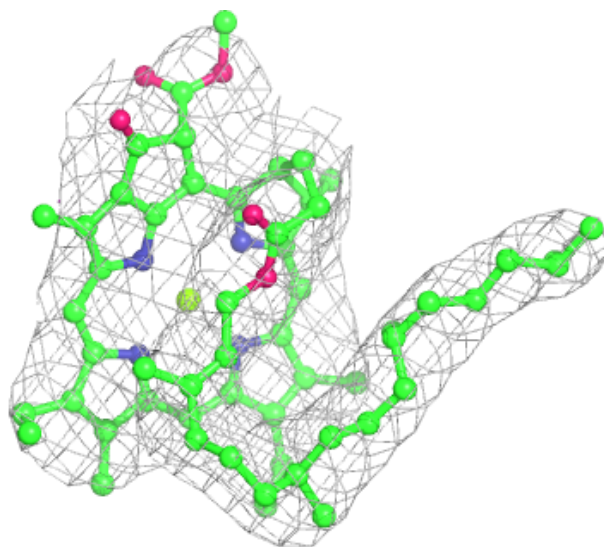
Electron density around CLA F 302:

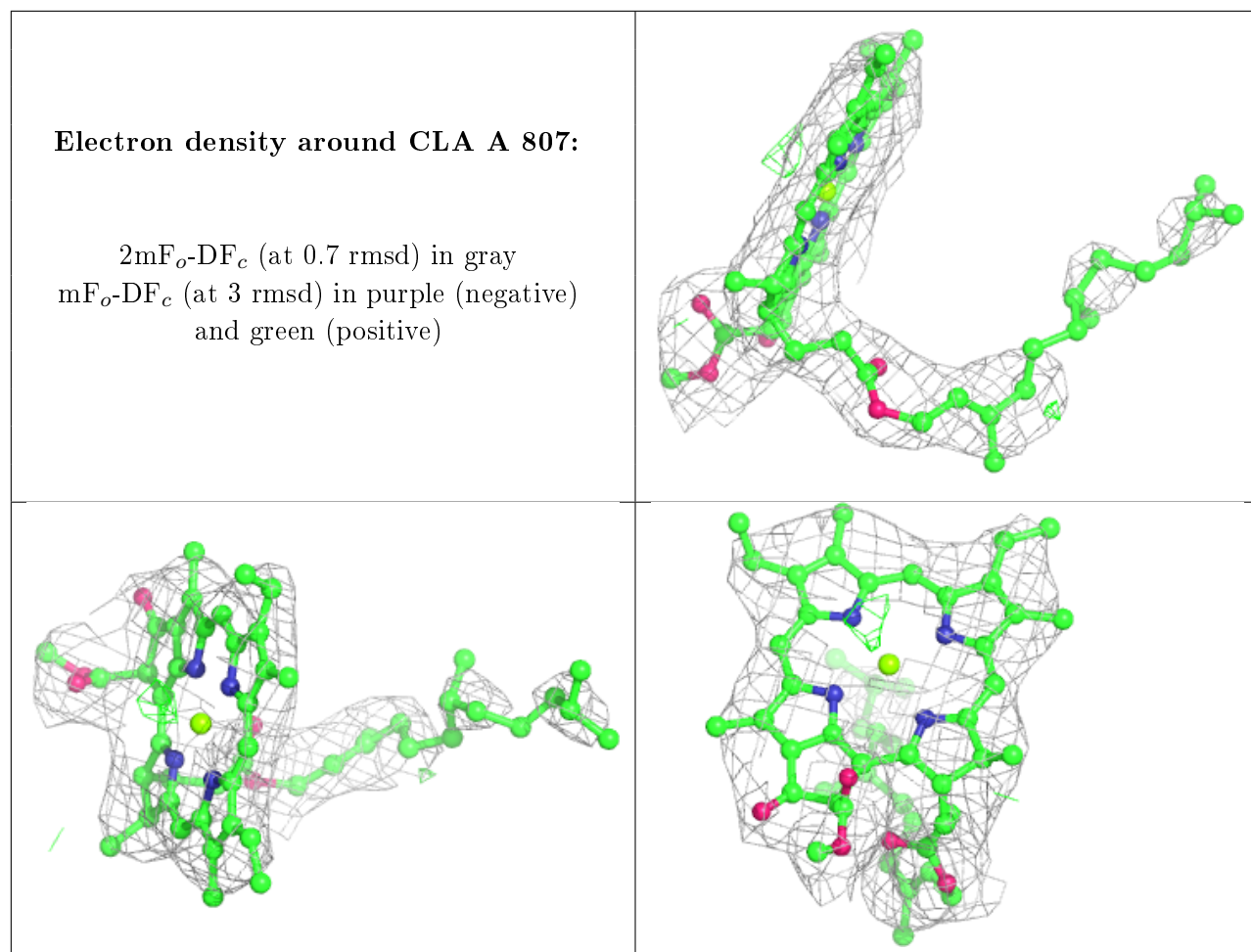
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 809:

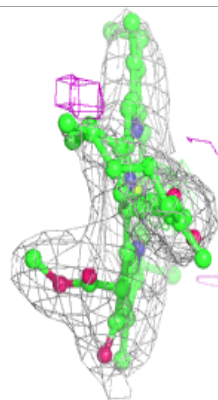
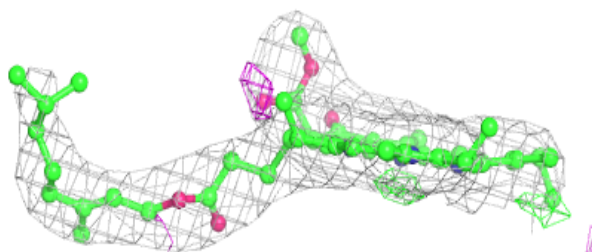
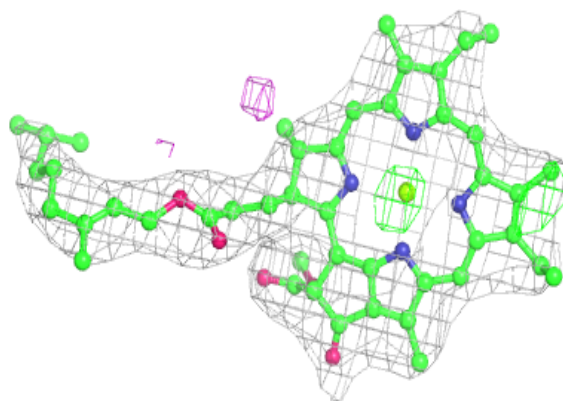
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



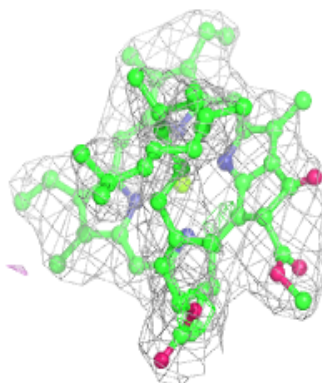
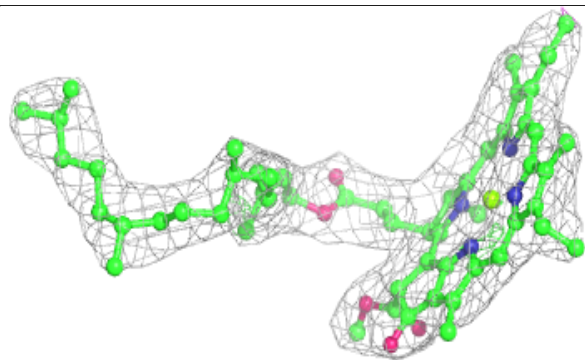
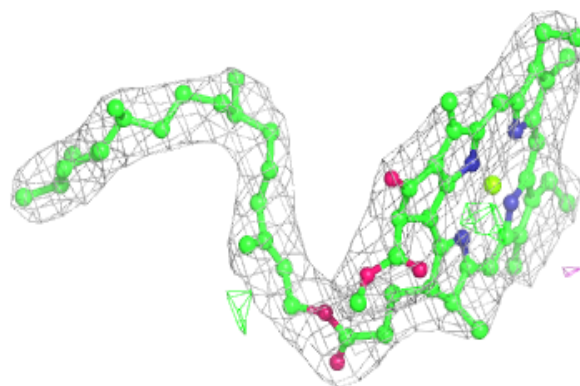


Electron density around CLA B 835:

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

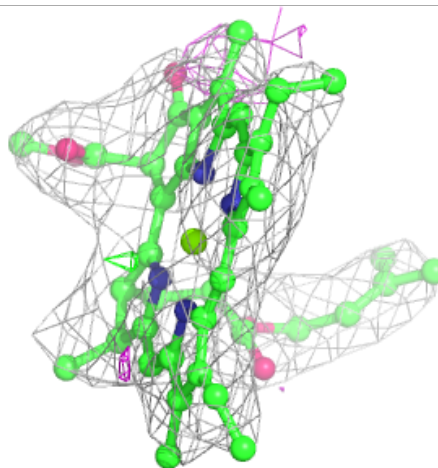
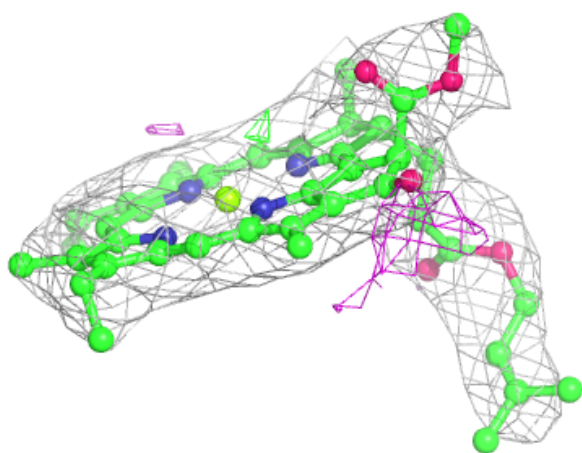
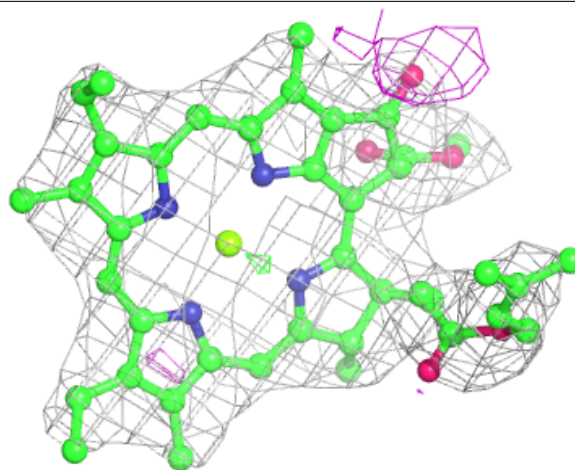
**Electron density around CLA B 803:**

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



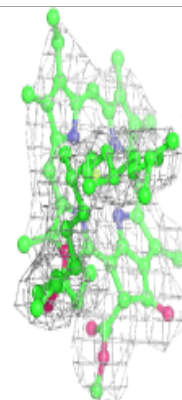
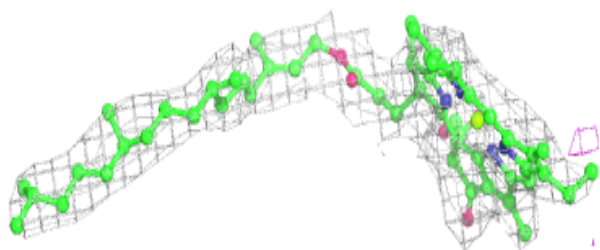
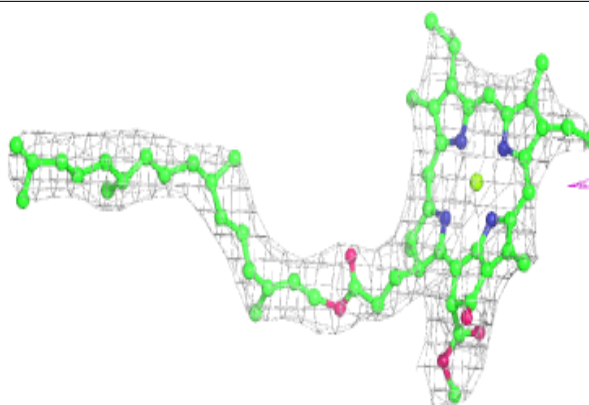
Electron density around CLA B 837:

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

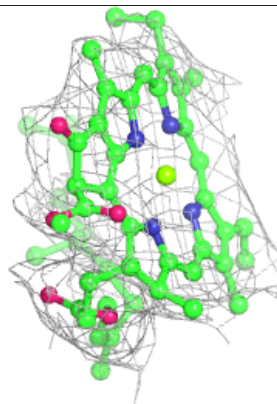
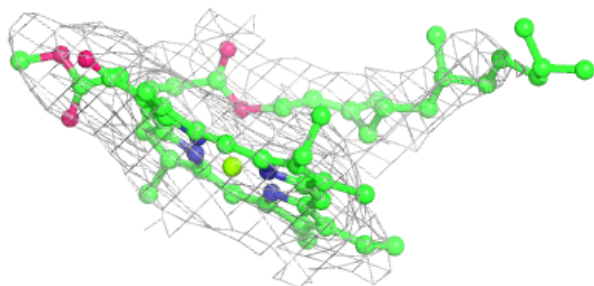
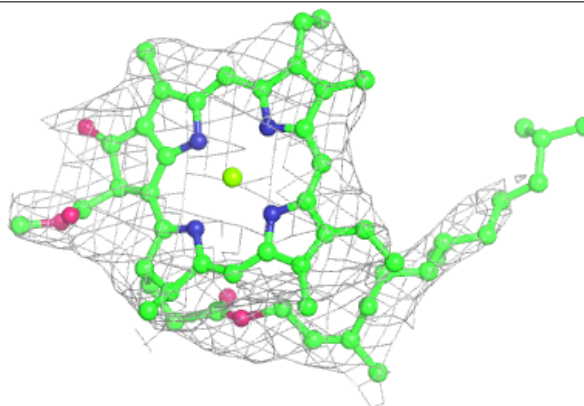


Electron density around CLA A 803:

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

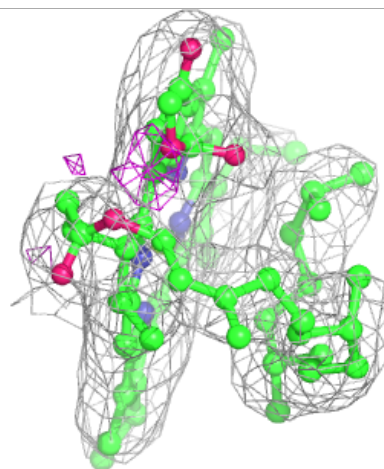
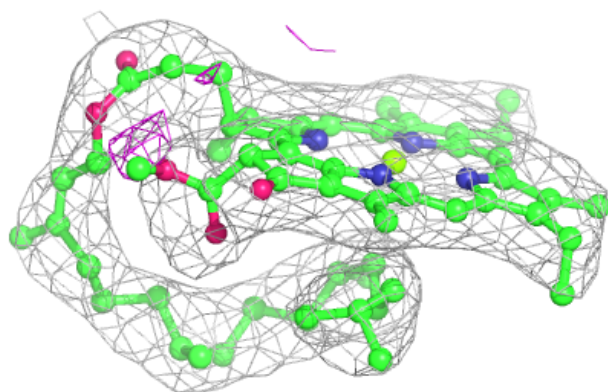
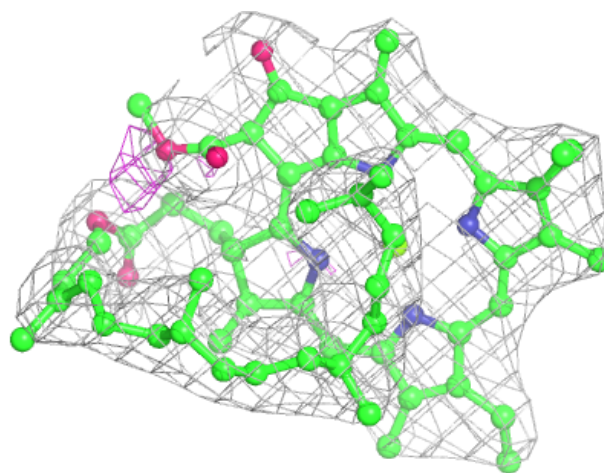
**Electron density around CLA 2 504:**

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



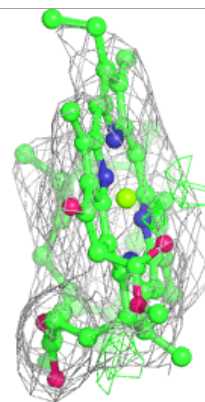
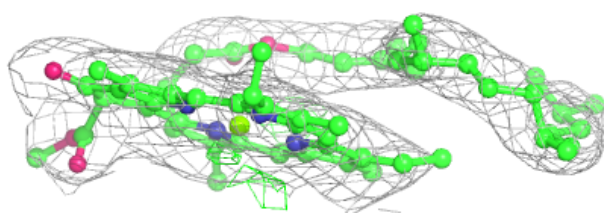
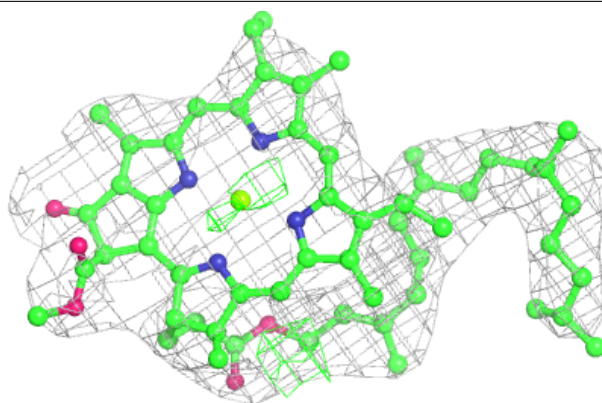
Electron density around CLA A 806:

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

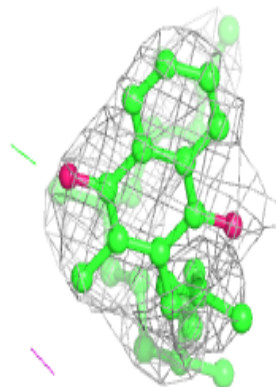
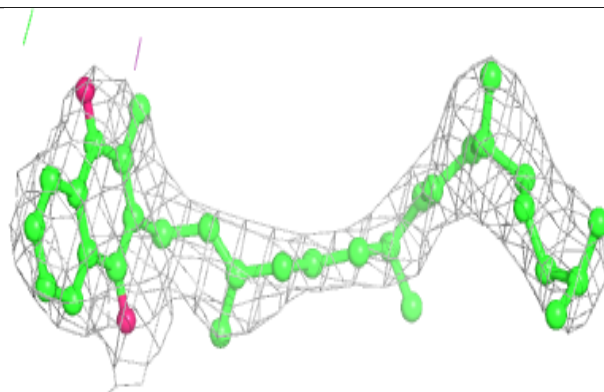
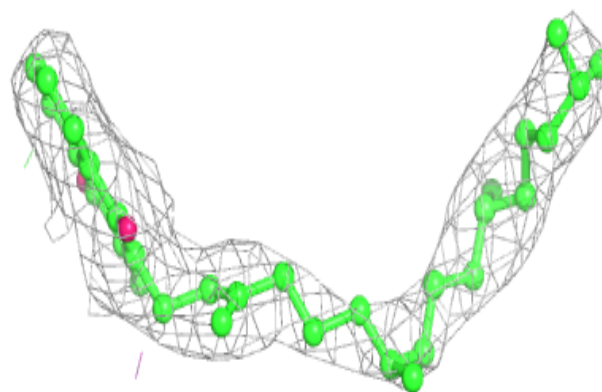


Electron density around CLA A 819:

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

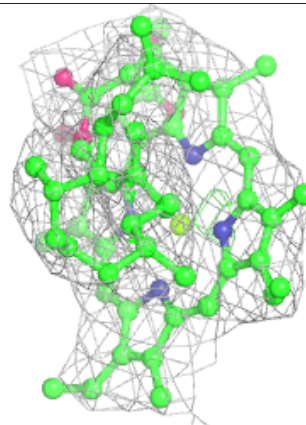
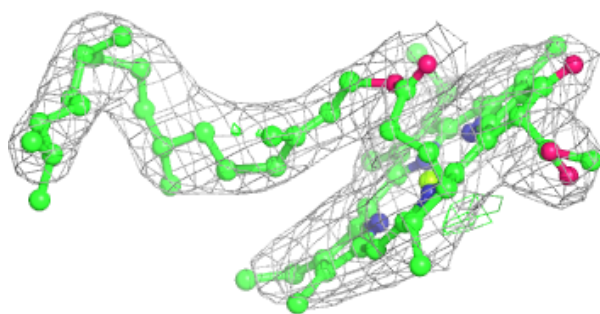
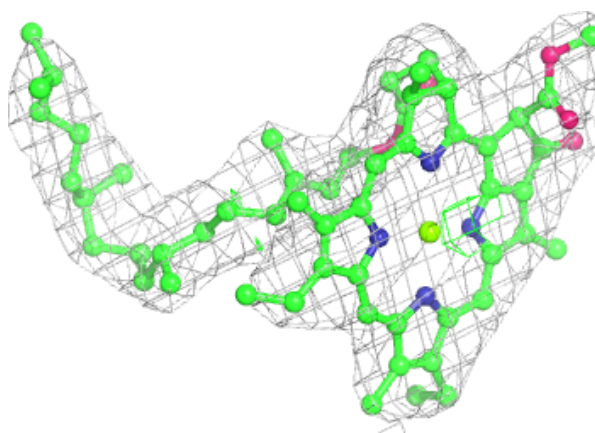
**Electron density around PQN B 841:**

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

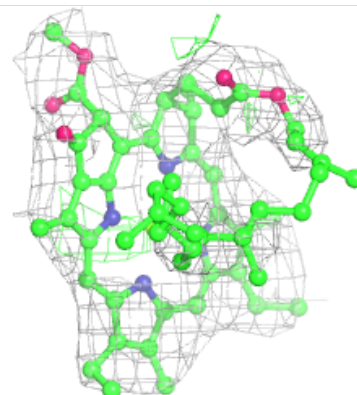
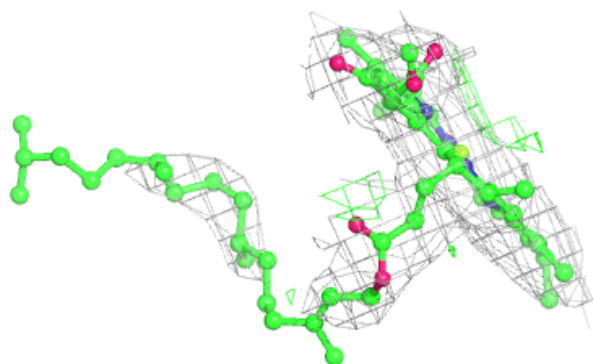
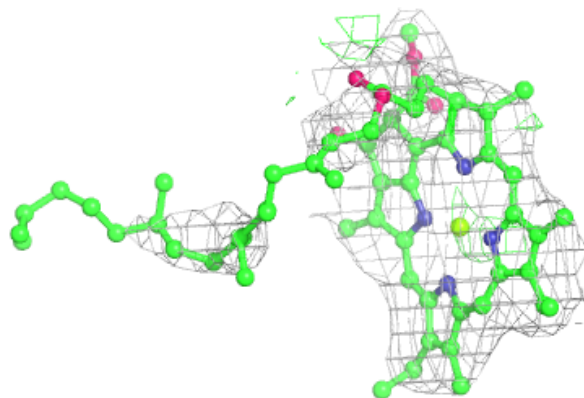


Electron density around CLA A 855:

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

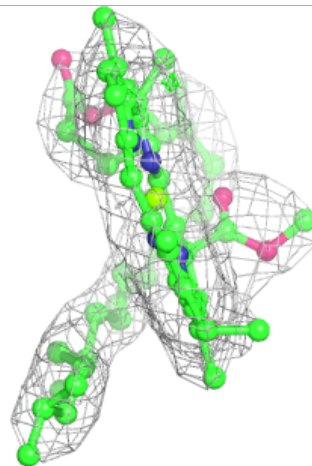
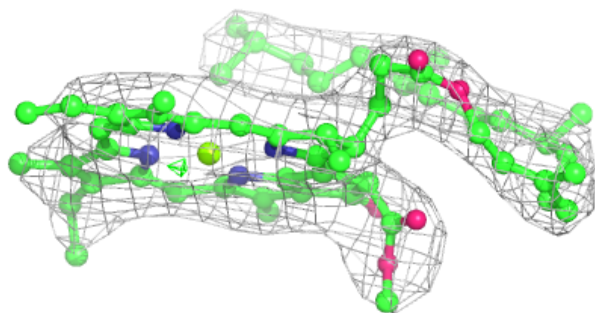
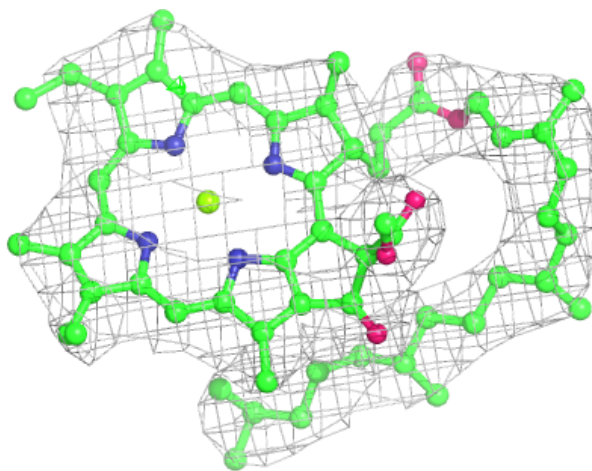
**Electron density around CLA 4 315:**

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



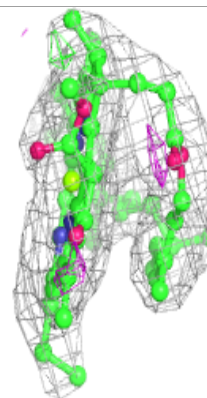
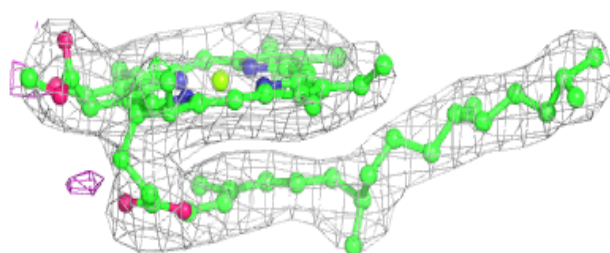
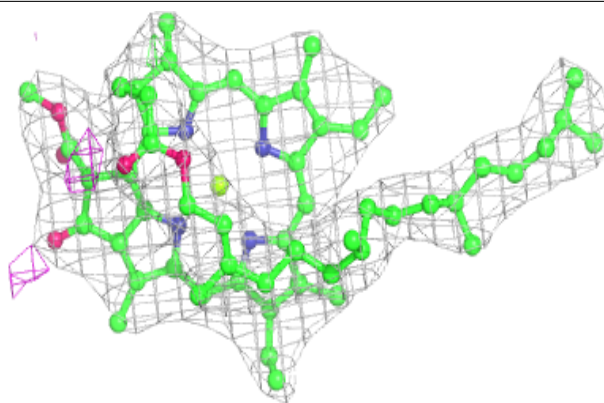
Electron density around CLA B 806:

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

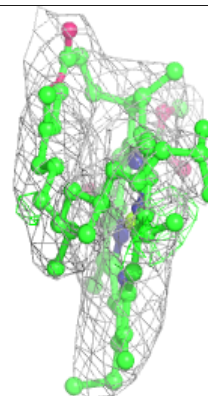
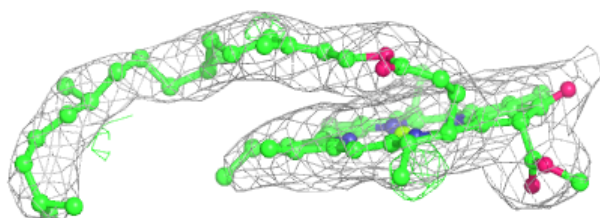
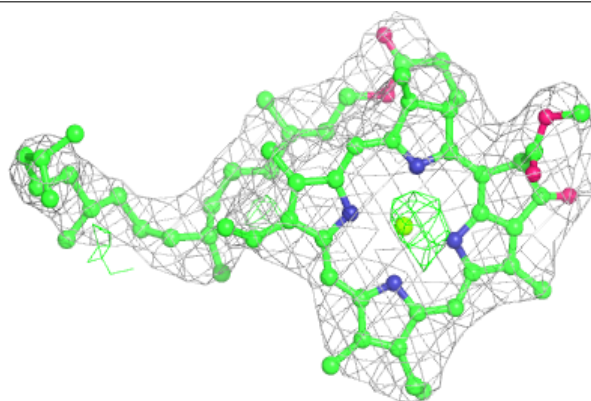


Electron density around CLA A 839:

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

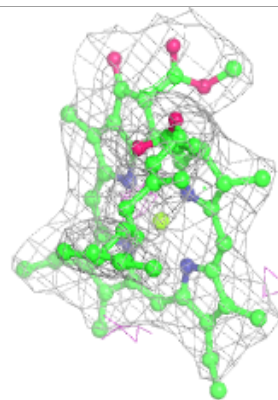
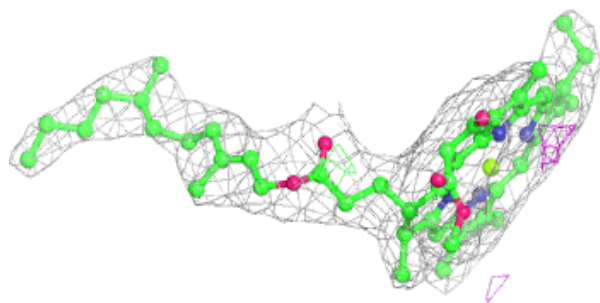
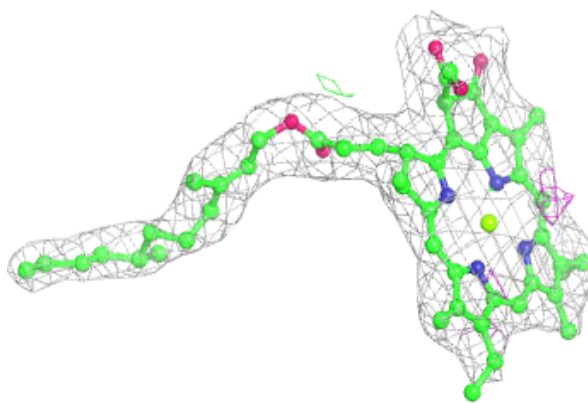
**Electron density around CLA B 819:**

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

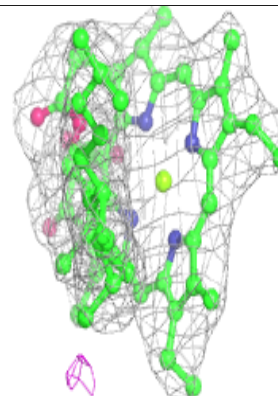
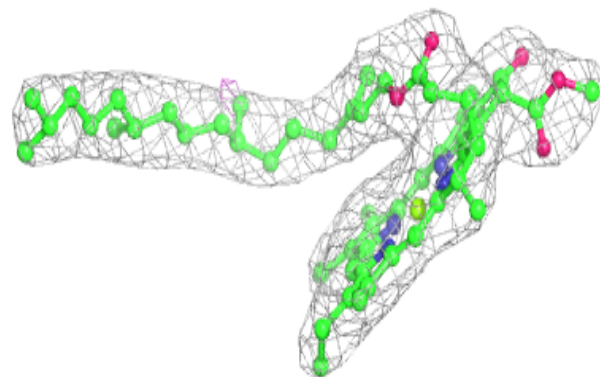
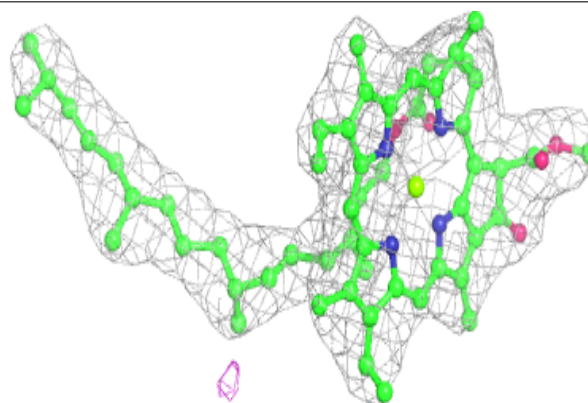


Electron density around CLA B 832:

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

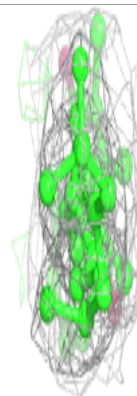
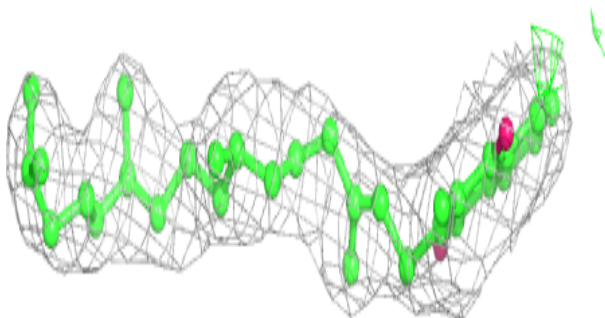
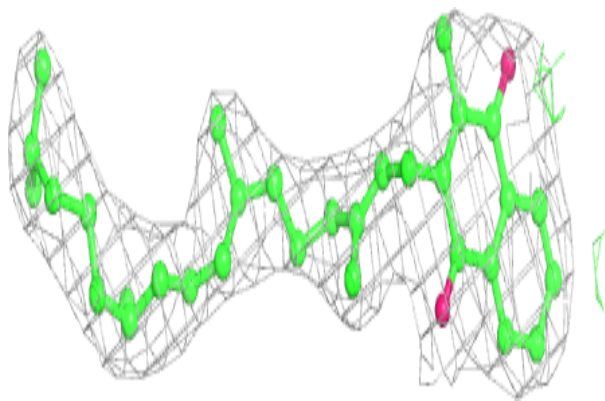
**Electron density around CLA A 841:**

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

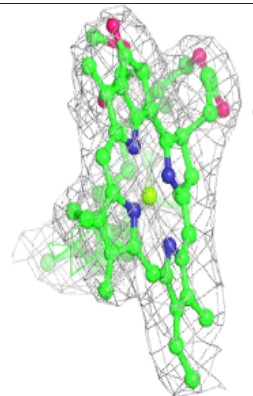
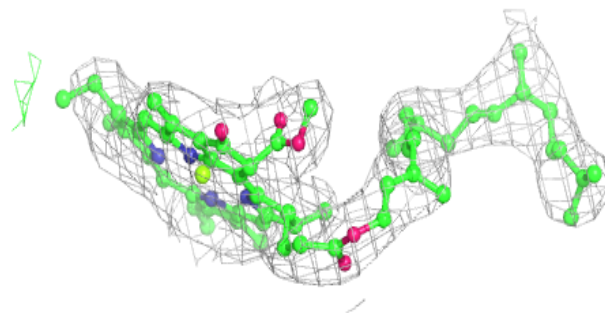
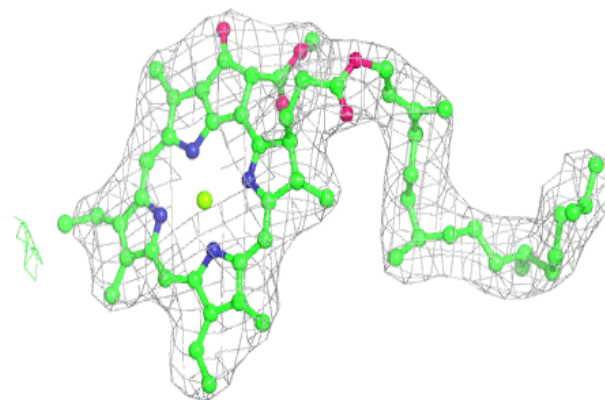


Electron density around PQN A 844:

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

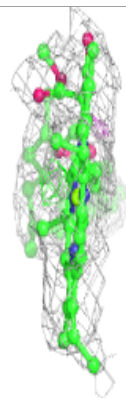
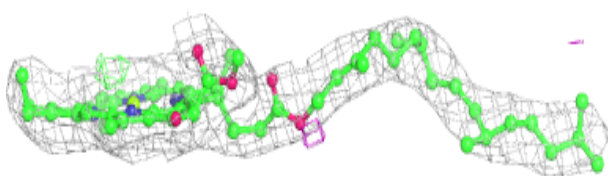
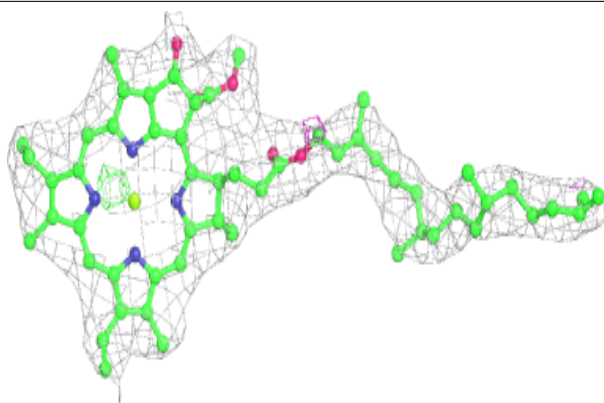
**Electron density around CLA J 1101:**

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

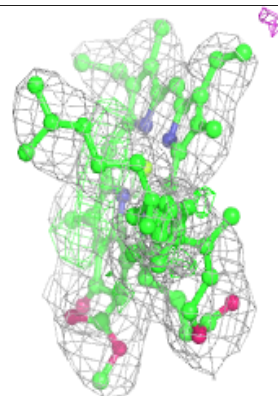
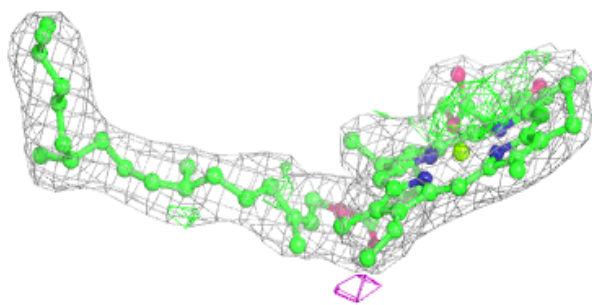
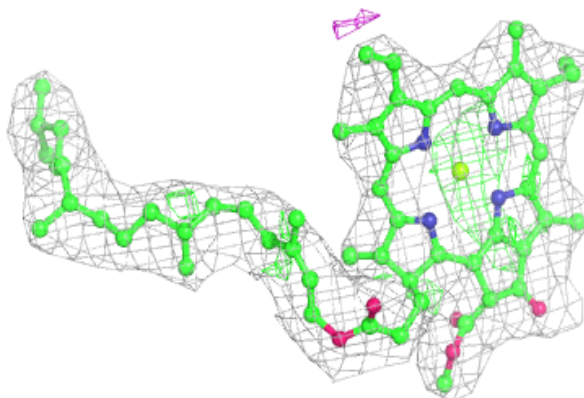


Electron density around CLA A 832:

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

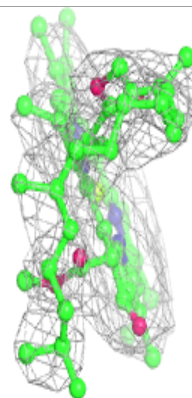
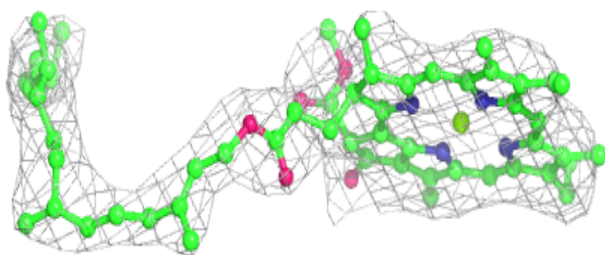
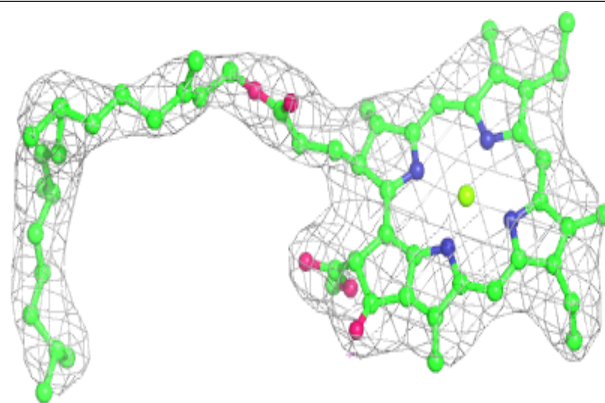
**Electron density around CLA A 802:**

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

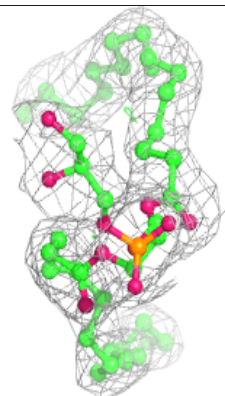
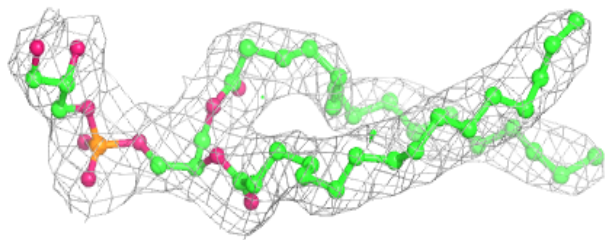
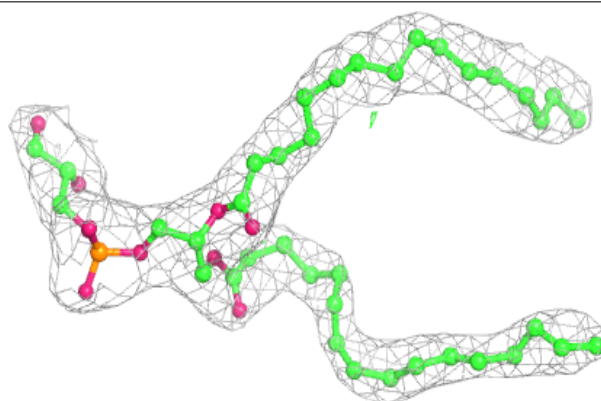


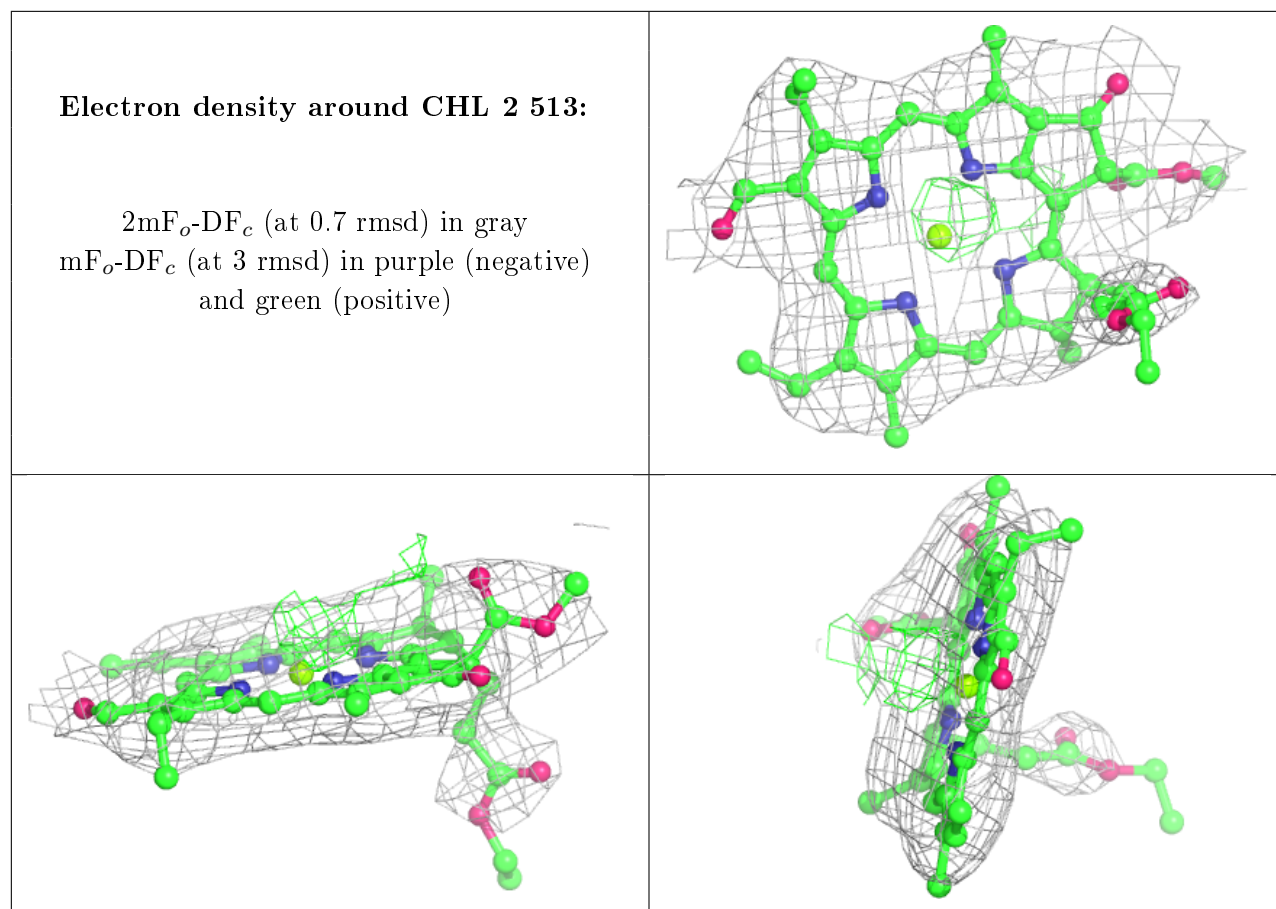
Electron density around CLA B 826:

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

**Electron density around LHG A 853:**

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





6.5 Other polymers [i](#)

There are no such residues in this entry.