



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 10, 2023 – 05:50 AM EDT

PDB ID : 7M78
Title : Room Temperature XFEL Crystallography reveals asymmetry in the vicinity of the two phylloquinones in Photosystem I
Authors : Keable, S.M.; Simon, P.S.; Kolsch, A.; Kern, J.; Yachandra, V.K.; Zouni, A.; Yano, J.
Deposited on : 2021-03-26
Resolution : 3.00 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 types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.35.1
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35.1

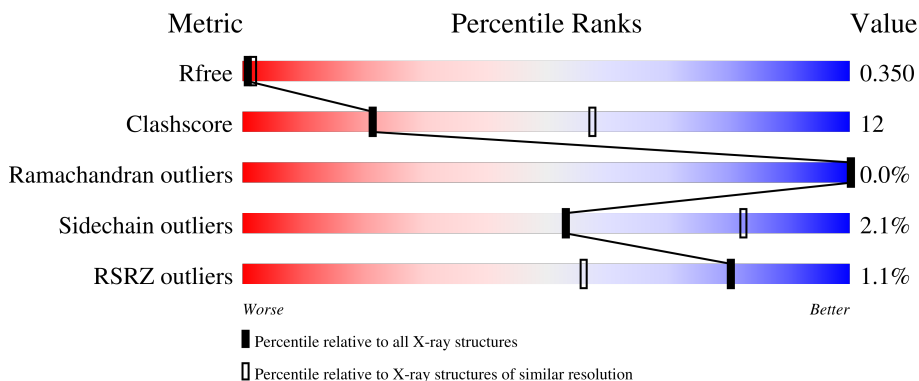
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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.







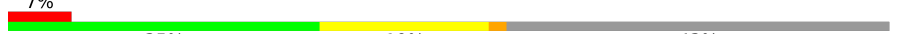

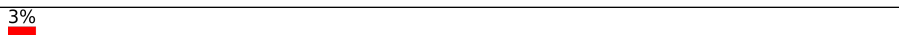
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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

Mol	Chain	Length	Quality of chain
1	A	755	 72% 26%
2	B	740	 73% 26%
3	C	80	 74% 24%
4	D	138	 78% 22%

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Mol	Chain	Length	Quality of chain
5	E	75	
6	F	164	
7	I	38	
8	J	41	
9	K	83	
10	L	154	
11	M	31	
12	X	35	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CL0	A	801	X	-	-	-
14	CLA	A	802	X	-	-	-
14	CLA	A	803	X	-	-	-
14	CLA	A	804	X	-	-	-
14	CLA	A	805	X	-	-	-
14	CLA	A	806	X	-	-	-
14	CLA	A	807	X	-	-	-
14	CLA	A	808	X	-	-	-
14	CLA	A	809	X	-	-	-
14	CLA	A	810	X	-	-	-
14	CLA	A	811	X	-	-	-
14	CLA	A	812	X	-	-	-
14	CLA	A	813	X	-	-	-
14	CLA	A	814	X	-	-	-
14	CLA	A	815	X	-	-	-
14	CLA	A	816	X	-	-	-
14	CLA	A	817	X	-	-	-
14	CLA	A	818	X	-	-	-
14	CLA	A	819	X	-	-	-
14	CLA	A	820	X	-	-	-
14	CLA	A	821	X	-	-	-
14	CLA	A	822	X	-	-	-
14	CLA	A	823	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	A	824	X	-	-	-
14	CLA	A	825	X	-	-	-
14	CLA	A	826	X	-	-	-
14	CLA	A	827	X	-	-	-
14	CLA	A	828	X	-	-	-
14	CLA	A	829	X	-	-	-
14	CLA	A	830	X	-	-	-
14	CLA	A	831	X	-	-	-
14	CLA	A	832	X	-	-	-
14	CLA	A	833	X	-	-	-
14	CLA	A	834	X	-	-	-
14	CLA	A	835	X	-	-	-
14	CLA	A	836	X	-	-	-
14	CLA	A	837	X	-	-	-
14	CLA	A	838	X	-	-	-
14	CLA	A	839	X	-	-	-
14	CLA	A	840	X	-	-	-
14	CLA	A	841	X	-	-	-
14	CLA	A	842	X	-	-	-
14	CLA	A	843	X	-	-	-
14	CLA	A	844	X	-	-	-
14	CLA	A	857	X	-	-	-
14	CLA	B	802	X	-	-	-
14	CLA	B	803	X	-	-	-
14	CLA	B	804	X	-	-	-
14	CLA	B	805	X	-	-	-
14	CLA	B	806	X	-	-	-
14	CLA	B	807	X	-	-	-
14	CLA	B	808	X	-	-	-
14	CLA	B	809	X	-	-	-
14	CLA	B	810	X	-	-	-
14	CLA	B	811	X	-	-	-
14	CLA	B	812	X	-	-	-
14	CLA	B	813	X	-	-	-
14	CLA	B	814	X	-	-	-
14	CLA	B	815	X	-	-	-
14	CLA	B	816	X	-	-	-
14	CLA	B	817	X	-	-	-
14	CLA	B	818	X	-	-	-
14	CLA	B	819	X	-	-	-
14	CLA	B	820	X	-	-	-
14	CLA	B	821	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	B	822	X	-	-	-
14	CLA	B	823	X	-	-	-
14	CLA	B	824	X	-	-	-
14	CLA	B	825	X	-	-	-
14	CLA	B	826	X	-	-	-
14	CLA	B	827	X	-	-	-
14	CLA	B	828	X	-	-	-
14	CLA	B	829	X	-	-	-
14	CLA	B	830	X	-	-	-
14	CLA	B	831	X	-	-	-
14	CLA	B	832	X	-	-	-
14	CLA	B	833	X	-	-	-
14	CLA	B	834	X	-	-	-
14	CLA	B	835	X	-	-	-
14	CLA	B	836	X	-	-	-
14	CLA	B	837	X	-	-	-
14	CLA	B	838	X	-	-	-
14	CLA	B	839	X	-	-	-
14	CLA	B	840	X	-	-	-
14	CLA	B	841	X	-	-	-
14	CLA	F	201	X	-	-	-
14	CLA	F	202	X	-	-	-
14	CLA	J	101	X	-	-	-
14	CLA	J	102	X	-	-	-
14	CLA	K	101	X	-	-	-
14	CLA	K	102	X	-	-	-
14	CLA	L	204	X	-	-	-
14	CLA	L	205	X	-	-	-
14	CLA	L	206	X	-	-	-
14	CLA	M	102	X	-	-	-
14	CLA	X	1701	X	-	-	-
17	BCR	A	849	-	-	-	X
18	LMG	A	853	-	-	-	X

2 Entry composition [i](#)

There are 23 unique types of molecules in this entry. The entry contains 48797 atoms, of which 24384 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	740	11422	3794	5638	988	976	26	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
2	B	739	11507	3876	5618	987	1005	21	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
3	C	80	1174	367	576	103	117	11	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
4	D	138	2152	682	1077	186	204	3	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	H	N	O			
5	E	69	1067	342	528	93	104	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
6	F	141	2141	680	1076	184	197	4	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
7	I	38	607	208	306	40	48	5	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
8	J	41	685	231	347	51	54	2	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
9	K	47	687	217	354	58	57	1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
10	L	151	2244	735	1125	179	201	4	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	143	LEU	SER	conflict	UNP Q8DGB4

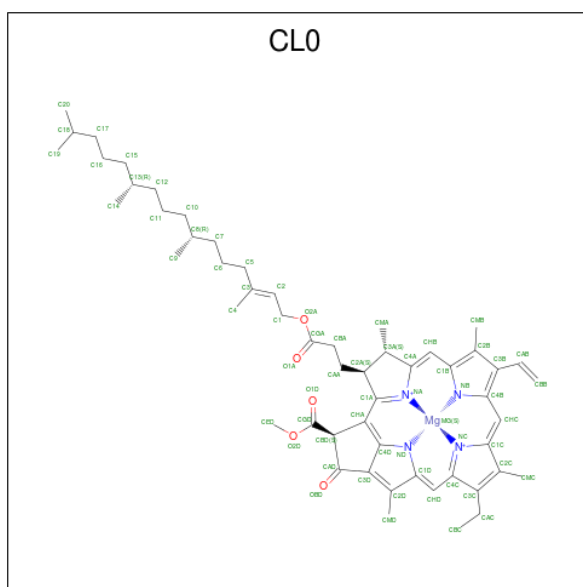
- Molecule 11 is a protein called Photosystem I reaction center subunit XII.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
11	M	31	505	161	264	36	43	1	0	0	0

- Molecule 12 is a protein called Photosystem I 4.8K protein.

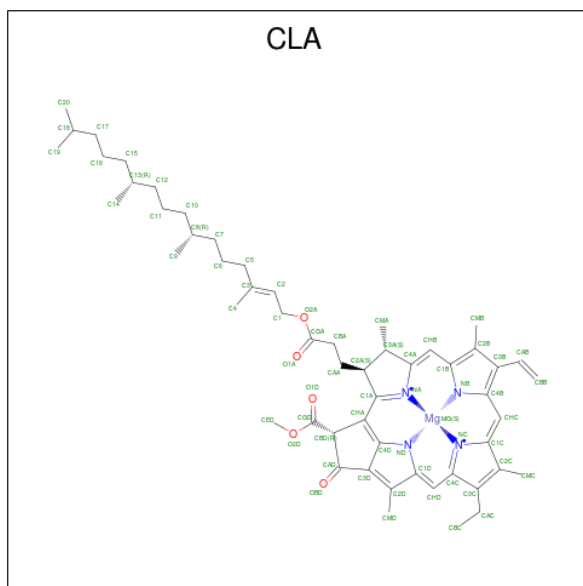
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
			Total	C	H	N				O
12	X	29	459	172	217	35	35	0	0	0

- Molecule 13 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula: C₅₅H₇₂MgN₄O₅).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N			O
13	A	1	137	55	72	1	4	5	0	0

- Molecule 14 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N			O
14	A	1	137	55	72	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			117	49	58	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			92	41	41	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			102	44	48	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			119	50	59	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			88	39	39	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			102	44	48	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			102	44	48	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			72	35	29	1	4	3		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			88	39	39	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			92	41	41	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N	O		
14	A	1	117	49	58	1	4	5	0	0
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			89	40	39	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			102	44	48	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			92	41	41	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			82	37	35	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			95	42	43	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N	O		
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	102	44	48	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	104	45	49	1	4	5	0	0
14	B	1	117	49	58	1	4	5	0	0
14	B	1	119	50	59	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	82	37	35	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	104	45	49	1	4	5	0	0

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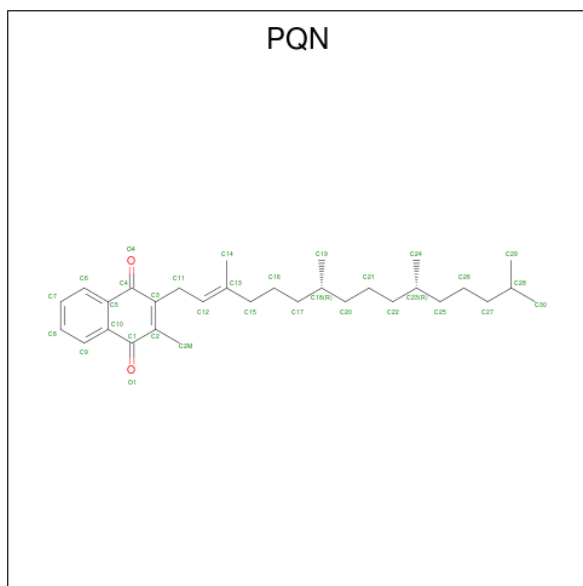
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N	O		
14	B	1	78	35	33	1	4	5	0	0
14	B	1	102	44	48	1	4	5	0	0
14	B	1	79	36	33	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	88	39	39	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	113	48	55	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	119	50	59	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	82	37	35	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	F	1	92	41	41	1	4	5	0	0
14	F	1	78	35	33	1	4	5	0	0

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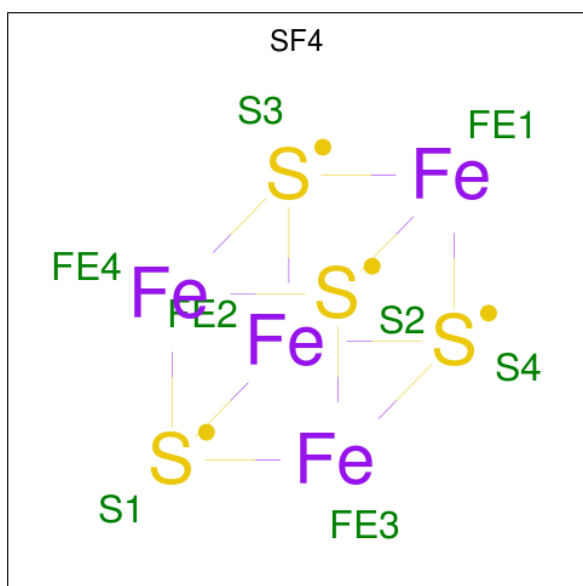
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
14	J	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	J	1	Total	C	H	Mg	N	O	0	0
			62	31	25	1	4	1		
14	K	1	Total	C	H	Mg	N	O	0	0
			70	33	29	1	4	3		
14	K	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	L	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	L	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	L	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	M	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	X	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		

- Molecule 15 is PHYLLOQUINONE (three-letter code: PQN) (formula: C₃₁H₄₆O₂).



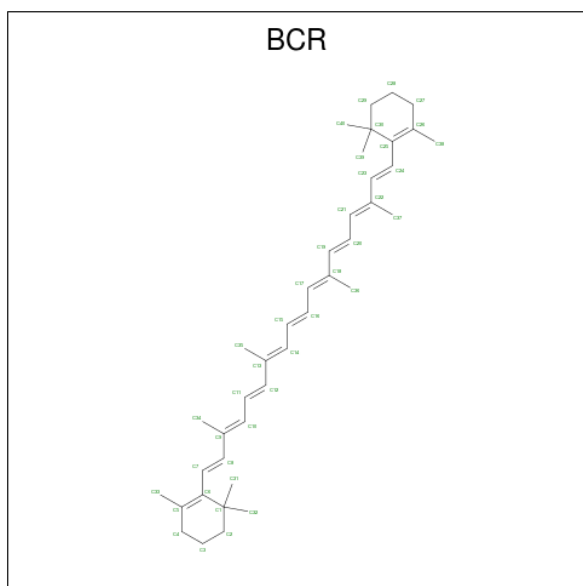
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
15	A	1	Total	C	H	O	0	0
			79	31	46	2		
15	B	1	Total	C	H	O	0	0
			79	31	46	2		

- Molecule 16 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



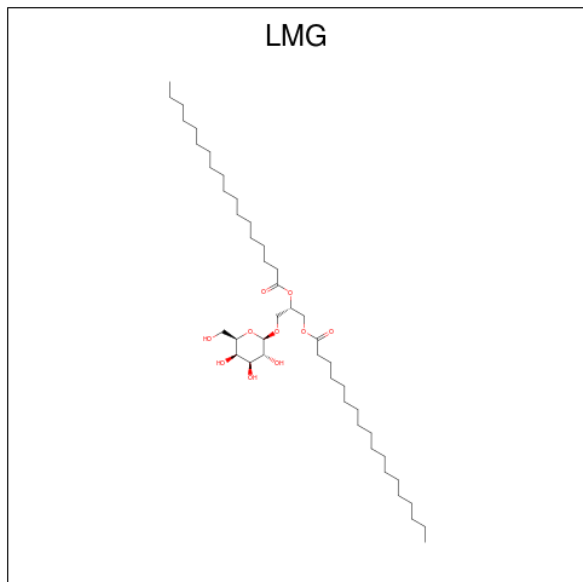
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
16	A	1	Total	Fe S	0	0
			8	4 4		
16	C	1	Total	Fe S	0	0
			8	4 4		
16	C	1	Total	Fe S	0	0
			8	4 4		

- Molecule 17 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



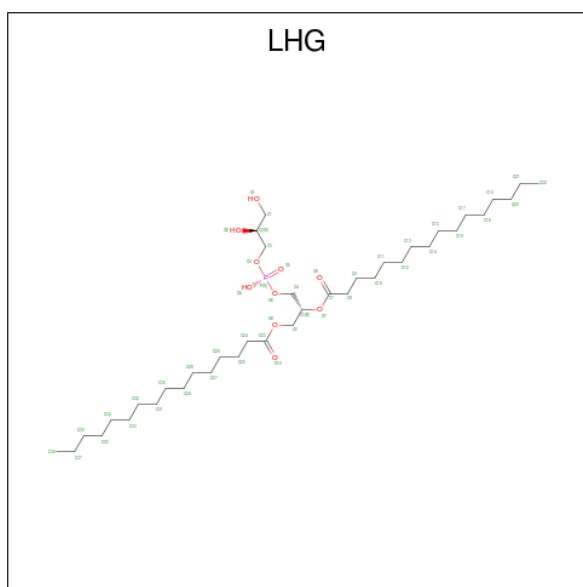
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
17	A	1	Total 96	C 40	H 56	0	0
17	A	1	Total 96	C 40	H 56	0	0
17	A	1	Total 96	C 40	H 56	0	0
17	A	1	Total 96	C 40	H 56	0	0
17	A	1	Total 96	C 40	H 56	0	0
17	A	1	Total 96	C 40	H 56	0	0
17	B	1	Total 96	C 40	H 56	0	0
17	B	1	Total 96	C 40	H 56	0	0
17	B	1	Total 96	C 40	H 56	0	0
17	B	1	Total 96	C 40	H 56	0	0
17	B	1	Total 96	C 40	H 56	0	0
17	B	1	Total 96	C 40	H 56	0	0
17	B	1	Total 96	C 40	H 56	0	0
17	B	1	Total 96	C 40	H 56	0	0
17	F	1	Total 96	C 40	H 56	0	0
17	I	1	Total 96	C 40	H 56	0	0
17	I	1	Total 96	C 40	H 56	0	0
17	J	1	Total 96	C 40	H 56	0	0
17	J	1	Total 96	C 40	H 56	0	0
17	J	1	Total 96	C 40	H 56	0	0
17	L	1	Total 96	C 40	H 56	0	0
17	L	1	Total 96	C 40	H 56	0	0
17	M	1	Total 96	C 40	H 56	0	0

- Molecule 18 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
18	A	1	118	38	70	10	0	0
18	A	1	67	22	37	8	0	0
18	B	1	141	45	86	10	0	0
18	I	1	91	30	51	10	0	0

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

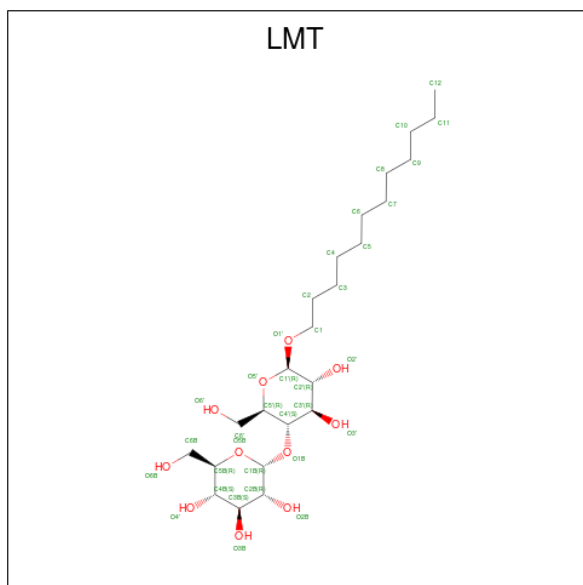


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	H	O	P		
19	A	1	123	38	74	10	1	0	0
19	A	1	53	16	26	10	1	0	0
19	B	1	43	12	20	10	1	0	0
19	M	1	123	38	74	10	1	0	0

- Molecule 20 is CALCIUM ION (three-letter code: CA) (formula: Ca).

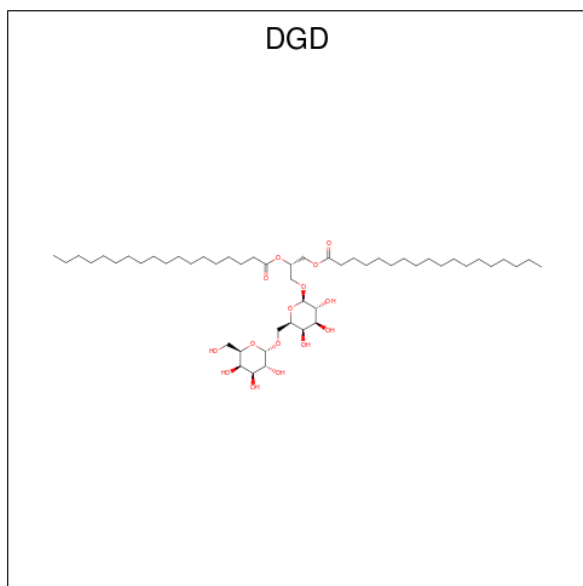
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
20	B	1	Total	Ca	0	0
			1	1		
20	L	1	Total	Ca	0	0
			1	1		

- Molecule 21 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: C₂₄H₄₆O₁₁).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
21	L	1	81	24	46	11	0	0

- Molecule 22 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
22	L	1	162	51	96	15	0	0

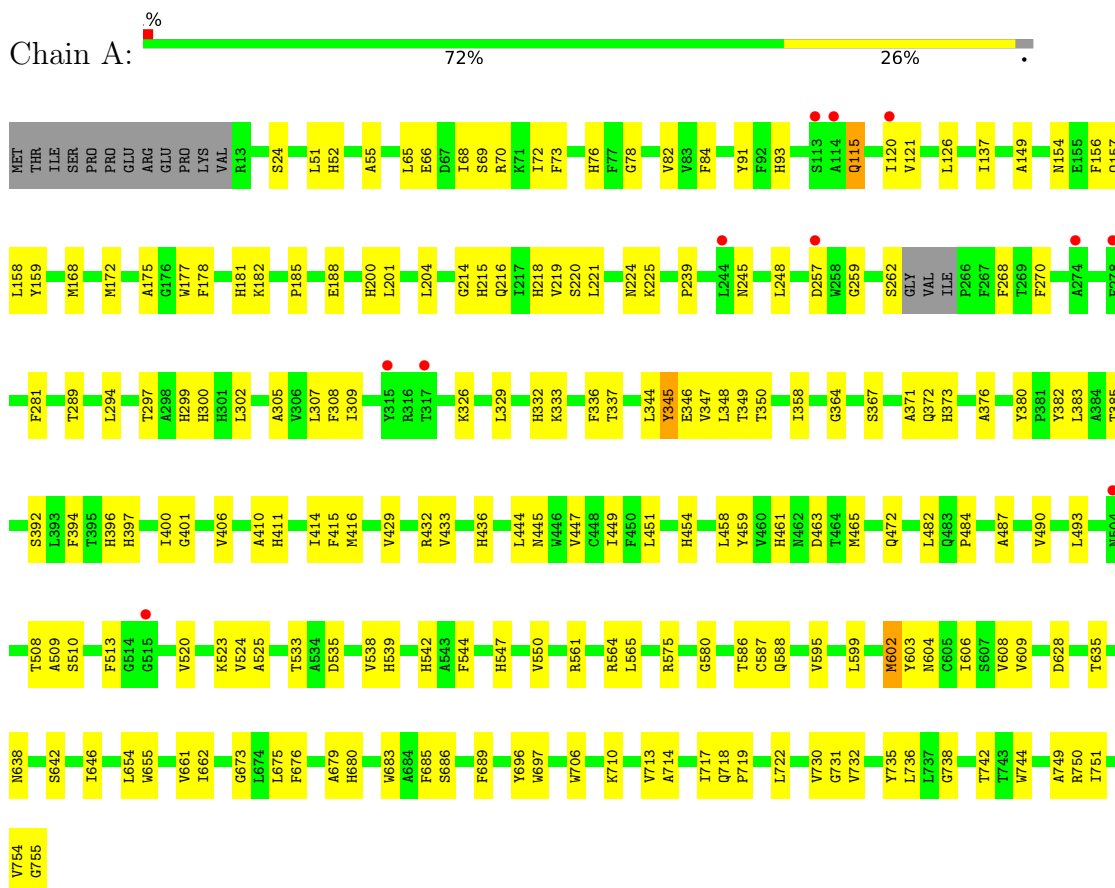
- Molecule 23 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
23	A	6	Total O 6 6	0	0
23	B	8	Total O 8 8	0	0
23	F	1	Total O 1 1	0	0
23	J	1	Total O 1 1	0	0
23	L	3	Total O 3 3	0	0
23	M	1	Total O 1 1	0	0

3 Residue-property plots [i](#)

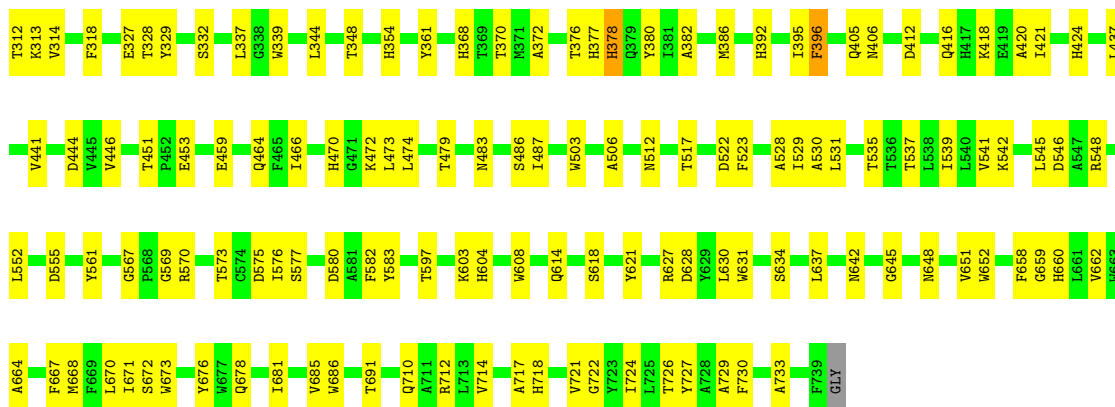
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1



- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

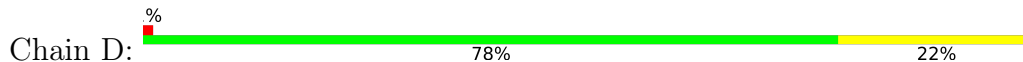




- Molecule 3: Photosystem I iron-sulfur center



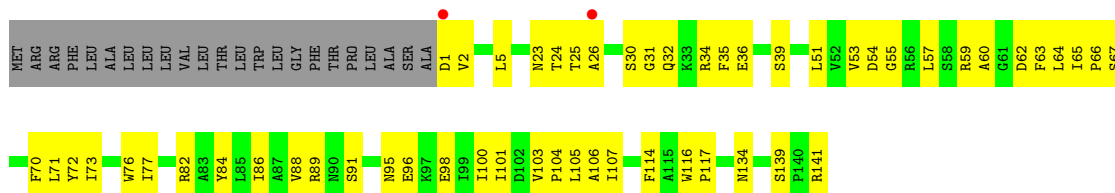
- Molecule 4: Photosystem I reaction center subunit II



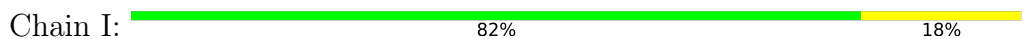
- Molecule 5: Photosystem I reaction center subunit IV

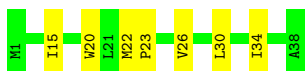


- Molecule 6: Photosystem I reaction center subunit III



- Molecule 7: Photosystem I reaction center subunit VIII

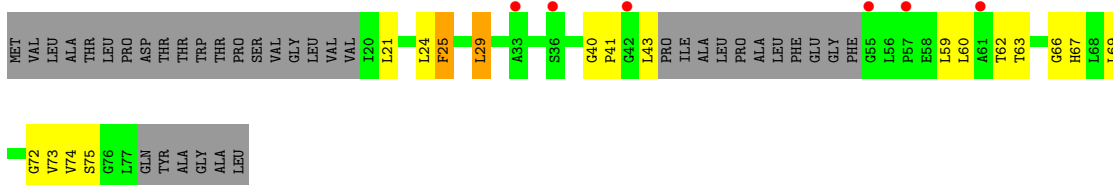
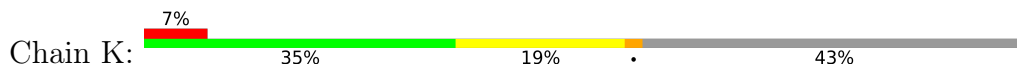




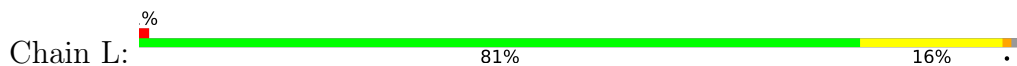
- Molecule 8: Photosystem I reaction center subunit IX



- Molecule 9: Photosystem I reaction center subunit PsaK



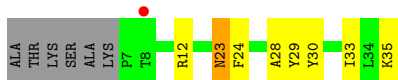
- Molecule 10: Photosystem I reaction center subunit XI



- Molecule 11: Photosystem I reaction center subunit XII



- Molecule 12: Photosystem I 4.8K protein



4 Data and refinement statistics i

Property	Value	Source
Space group	P 63	Depositor
Cell constants a, b, c, α , β , γ	284.86Å 284.86Å 166.18Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	31.63 – 3.00 31.63 – 3.00	Depositor EDS
% Data completeness (in resolution range)	99.9 (31.63-3.00) 94.3 (31.63-3.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.88 (at 3.00Å)	Xtrriage
Refinement program	PHENIX 1.19.1_4122	Depositor
R, R_{free}	0.334 , 0.350 0.334 , 0.350	Depositor DCC
R_{free} test set	1995 reflections (1.30%)	wwPDB-VP
Wilson B-factor (Å ²)	32.5	Xtrriage
Anisotropy	0.234	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.17 , -97.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.22$	Xtrriage
Estimated twinning fraction	0.146 for h,-h-k,-l	Xtrriage
F_o, F_c correlation	0.69	EDS
Total number of atoms	48797	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.23% 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, CA, LMT, PQN, SF4, DGD, BCR, CLA, CL0, 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	A	0.26	0/5983	0.47	0/8158
2	B	0.26	0/6107	0.45	0/8345
3	C	0.25	0/608	0.49	0/824
4	D	0.27	0/1101	0.52	0/1492
5	E	0.26	0/551	0.50	0/750
6	F	0.26	0/1087	0.51	0/1476
7	I	0.29	0/312	0.48	0/425
8	J	0.27	0/350	0.43	0/477
9	K	0.26	0/337	0.51	0/454
10	L	0.28	0/1148	0.45	0/1558
11	M	0.30	0/244	0.49	0/332
12	X	0.27	0/251	0.44	0/342
All	All	0.26	0/18079	0.47	0/24633

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	A	5784	5638	5639	159	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	5889	5618	5649	158	0
3	C	598	576	580	16	0
4	D	1075	1077	1077	20	0
5	E	539	528	528	10	0
6	F	1065	1076	1077	41	0
7	I	301	306	306	7	0
8	J	338	347	347	21	0
9	K	333	354	354	16	0
10	L	1119	1125	1125	16	1
11	M	241	264	264	8	0
12	X	242	217	249	10	0
13	A	65	72	72	4	0
14	A	2577	2574	2574	117	0
14	B	2284	2232	2232	87	0
14	F	96	74	74	5	0
14	J	82	58	58	7	0
14	K	86	62	62	5	0
14	L	195	216	216	3	0
14	M	45	33	33	0	0
14	X	45	33	33	4	0
15	A	33	46	46	5	0
15	B	33	46	46	2	0
16	A	8	0	0	0	0
16	C	16	0	0	1	0
17	A	240	336	336	13	0
17	B	280	392	392	17	0
17	F	40	56	56	3	0
17	I	80	112	112	8	0
17	J	120	168	168	14	0
17	L	80	112	112	4	0
17	M	40	56	56	0	0
18	A	78	107	105	2	0
18	B	55	86	86	1	0
18	I	40	51	50	0	0
19	A	76	100	98	1	0
19	B	23	20	16	1	0
19	M	49	74	74	0	0
20	B	1	0	0	0	0
20	L	1	0	0	0	0
21	L	35	46	46	0	0
22	L	66	96	96	2	0
23	A	6	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	B	8	0	0	0	0
23	F	1	0	0	0	0
23	J	1	0	0	0	0
23	L	3	0	0	1	2
23	M	1	0	0	0	0
All	All	24413	24384	24444	588	2

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 12.

All (588) 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)
10:L:153:PHE:O	23:L:302:HOH:O	1.68	1.10
2:B:583:TYR:OH	2:B:670:LEU:HD22	1.60	1.00
2:B:506:ALA:O	2:B:512:ASN:ND2	1.97	0.98
1:A:336:PHE:O	1:A:432:ARG:NH1	2.10	0.85
6:F:1:ASP:N	6:F:5:LEU:O	2.12	0.83
1:A:376:ALA:O	1:A:510:SER:OG	1.99	0.81
4:D:32:THR:OG1	4:D:79:ASP:OD2	1.97	0.80
5:E:26:VAL:HG22	5:E:36:VAL:HG12	1.61	0.80
2:B:614:GLN:O	2:B:618:SER:OG	2.00	0.80
9:K:72:GLY:O	9:K:75:SER:OG	1.98	0.79
2:B:483:ASN:OD1	2:B:486:SER:N	2.15	0.79
4:D:33:SER:OG	4:D:50:ARG:O	2.02	0.77
2:B:479:THR:HG23	12:X:35:LYS:HG2	1.67	0.76
2:B:446:VAL:O	2:B:451:THR:OG1	2.04	0.76
14:B:832:CLA:H142	17:F:203:BCR:H333	1.68	0.76
14:A:805:CLA:H143	14:A:810:CLA:H143	1.68	0.75
1:A:385:THR:O	1:A:523:LYS:NZ	2.17	0.75
6:F:105:LEU:HD12	6:F:106:ALA:N	2.02	0.75
1:A:68:ILE:HD12	1:A:69:SER:N	2.03	0.74
6:F:35:PHE:O	6:F:39:SER:OG	2.06	0.73
2:B:175:ASN:ND2	2:B:290:TYR:O	2.22	0.73
2:B:441:VAL:HG13	14:B:833:CLA:HMC3	1.69	0.72
4:D:2:THR:HG22	4:D:3:LEU:H	1.54	0.72
14:B:803:CLA:HMB1	14:B:803:CLA:HBB1	1.71	0.72
14:B:840:CLA:H193	17:I:101:BCR:H362	1.72	0.72
14:A:802:CLA:OBD	14:B:802:CLA:HMB3	1.90	0.72
22:L:207:DGD:O3D	22:L:207:DGD:O1G	2.08	0.71
5:E:27:ASP:OD2	5:E:32:VAL:HG21	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:A:811:CLA:HMB2	14:A:813:CLA:HMD3	1.73	0.71
2:B:710:GLN:O	2:B:714:VAL:HG23	1.91	0.71
14:A:844:CLA:HMC1	14:A:844:CLA:HBC2	1.71	0.70
2:B:405:GLN:OE1	2:B:406:ASN:ND2	2.24	0.70
4:D:118:SER:OG	4:D:121:GLN:OE1	2.09	0.70
14:A:829:CLA:HBB1	14:A:829:CLA:HMB1	1.73	0.70
2:B:255:THR:HG1	2:B:270:THR:HG1	1.14	0.70
1:A:70:ARG:NH1	1:A:185:PRO:O	2.25	0.69
1:A:149:ALA:O	1:A:220:SER:OG	2.10	0.69
22:L:207:DGD:O5D	22:L:207:DGD:O4D	1.98	0.69
1:A:750:ARG:O	1:A:754:VAL:HG22	1.92	0.69
9:K:29:LEU:HB3	9:K:62:THR:HG21	1.75	0.68
14:A:833:CLA:HMB1	14:A:833:CLA:HBB1	1.76	0.68
14:B:825:CLA:HMB1	14:B:825:CLA:HBB1	1.75	0.67
1:A:215:HIS:O	1:A:219:VAL:N	2.27	0.67
2:B:416:GLN:O	6:F:141:ARG:NH2	2.28	0.67
4:D:117:ARG:NH2	4:D:122:ASN:OD1	2.28	0.67
18:A:856:LMG:O5	18:A:856:LMG:O4	2.03	0.67
2:B:580:ASP:OD1	2:B:712:ARG:NH1	2.28	0.67
1:A:297:THR:HG23	14:A:820:CLA:HMA3	1.77	0.66
14:B:828:CLA:HBB1	14:B:828:CLA:HMB1	1.77	0.66
14:A:857:CLA:HBB1	14:A:857:CLA:HMB1	1.77	0.66
6:F:139:SER:O	6:F:141:ARG:NH1	2.28	0.66
1:A:580:GLY:O	1:A:586:THR:OG1	2.08	0.66
17:A:852:BCR:H362	14:A:857:CLA:C4	2.26	0.66
2:B:552:LEU:O	2:B:570:ARG:NH2	2.30	0.65
1:A:454:HIS:O	1:A:458:LEU:HD13	1.96	0.65
2:B:567:GLY:O	2:B:573:THR:HG22	1.96	0.65
1:A:655:TRP:O	2:B:631:TRP:NE1	2.29	0.65
2:B:70:GLN:OE1	2:B:89:ALA:N	2.29	0.65
14:B:813:CLA:H143	14:B:828:CLA:HMD2	1.79	0.65
14:B:822:CLA:HBB1	14:B:822:CLA:HMB1	1.77	0.65
2:B:205:HIS:O	2:B:210:ASN:ND2	2.28	0.65
2:B:309:PHE:O	2:B:312:THR:HG22	1.96	0.65
1:A:661:VAL:HG22	1:A:749:ALA:HB3	1.79	0.64
14:A:822:CLA:OBD	14:A:824:CLA:HMD3	1.97	0.64
14:B:825:CLA:HMA1	17:B:846:BCR:H14C	1.80	0.64
12:X:23:ASN:HD21	14:X:1701:CLA:CHA	2.11	0.64
1:A:65:LEU:HD12	1:A:68:ILE:HD11	1.79	0.64
2:B:181:LEU:HD21	14:B:813:CLA:H43	1.80	0.63
1:A:115:GLN:HE22	14:A:809:CLA:C1B	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:564:ARG:NH2	4:D:14:THR:O	2.31	0.63
2:B:278:ALA:HA	14:B:816:CLA:HMC3	1.79	0.63
9:K:25:PHE:O	9:K:29:LEU:HD23	1.98	0.63
2:B:284:ILE:HD13	17:B:843:BCR:H352	1.81	0.62
12:X:23:ASN:ND2	14:X:1701:CLA:O1D	2.32	0.62
1:A:154:ASN:OD1	1:A:157:GLN:NE2	2.32	0.62
14:A:803:CLA:HMC2	14:A:857:CLA:CAC	2.30	0.62
9:K:60:LEU:O	9:K:63:THR:HG22	1.99	0.62
14:B:817:CLA:HBB1	14:B:817:CLA:HMB1	1.82	0.62
2:B:318:PHE:HB2	14:B:823:CLA:HMA1	1.82	0.61
2:B:376:THR:HG22	2:B:597:THR:CG2	2.30	0.61
2:B:453:GLU:OE2	6:F:34:ARG:NH2	2.33	0.61
8:J:40:PRO:HD2	17:J:105:BCR:H382	1.82	0.61
2:B:392:HIS:HA	2:B:395:ILE:HD12	1.80	0.61
2:B:552:LEU:HD23	2:B:576:ILE:HD12	1.83	0.61
3:C:22:THR:OG1	3:C:24:VAL:HG23	2.00	0.61
8:J:37:LEU:HD23	8:J:37:LEU:O	2.00	0.61
19:B:850:LHG:O3	12:X:12:ARG:NH2	2.34	0.61
2:B:686:TRP:NE1	10:L:15:GLY:O	2.34	0.61
5:E:62:LEU:HD23	5:E:62:LEU:H	1.65	0.60
2:B:255:THR:OG1	2:B:271:ASP:OD1	2.19	0.60
3:C:9:THR:HG1	3:C:63:SER:HG	0.61	0.60
1:A:120:ILE:HG23	1:A:121:VAL:HG22	1.83	0.60
2:B:470:HIS:O	2:B:503:TRP:NE1	2.32	0.60
1:A:463:ASP:OD2	1:A:646:ILE:N	2.33	0.60
1:A:679:ALA:HB1	1:A:738:GLY:O	2.02	0.60
1:A:714:ALA:O	6:F:89:ARG:NH1	2.35	0.60
3:C:27:MET:O	4:D:109:ARG:NH1	2.33	0.60
1:A:333:LYS:O	14:A:844:CLA:HBC3	2.01	0.60
14:A:804:CLA:HED3	15:A:845:PQN:H262	1.84	0.60
1:A:524:VAL:HG12	1:A:525:ALA:N	2.17	0.59
12:X:24:PHE:CD1	14:X:1701:CLA:HMA1	2.37	0.59
6:F:53:VAL:HG13	6:F:63:PHE:CD2	2.37	0.59
6:F:103:VAL:HG22	6:F:107:ILE:HD12	1.85	0.59
2:B:548:ARG:NH2	4:D:124:ASN:OD1	2.35	0.59
1:A:565:LEU:O	4:D:60:ARG:NH2	2.36	0.59
2:B:487:ILE:HG13	14:B:835:CLA:HMD3	1.85	0.59
14:B:829:CLA:HBB1	14:B:829:CLA:HMB1	1.85	0.59
1:A:66:GLU:OE1	1:A:70:ARG:NH2	2.35	0.59
2:B:472:LYS:NZ	2:B:517:THR:OG1	2.36	0.58
14:B:837:CLA:HBB1	14:B:837:CLA:HMB1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:A:827:CLA:HBB1	14:A:827:CLA:HMB1	1.84	0.58
2:B:235:ASN:O	2:B:251:THR:N	2.30	0.58
10:L:68:LEU:HD23	10:L:73:VAL:HG23	1.84	0.58
14:A:842:CLA:H142	17:B:847:BCR:C16	2.34	0.58
1:A:168:MET:O	1:A:172:MET:HG2	2.04	0.58
1:A:550:VAL:HG11	14:A:840:CLA:HMB3	1.86	0.58
14:A:822:CLA:H61	17:A:850:BCR:H352	1.86	0.58
1:A:177:TRP:HB2	14:A:812:CLA:HMC3	1.84	0.58
2:B:146:SER:HB3	11:M:21:LEU:HD12	1.85	0.58
1:A:410:ALA:HB2	1:A:595:VAL:HG11	1.86	0.57
2:B:555:ASP:OD1	3:C:65:ARG:NH1	2.37	0.57
3:C:60:ASP:HB2	5:E:58:ASN:ND2	2.20	0.57
2:B:459:GLU:OE1	2:B:464:GLN:NE2	2.34	0.57
2:B:528:ALA:CB	14:B:802:CLA:H192	2.35	0.57
14:B:827:CLA:HBB1	14:B:827:CLA:HMB1	1.87	0.57
8:J:36:LEU:HD12	17:J:105:BCR:C21	2.34	0.57
14:A:827:CLA:HAB	17:A:851:BCR:H311	1.85	0.57
14:A:810:CLA:HMB1	14:A:810:CLA:HBB1	1.87	0.56
14:B:832:CLA:HMB1	14:B:832:CLA:HBB1	1.86	0.56
14:L:204:CLA:H202	14:L:204:CLA:O2A	2.05	0.56
2:B:418:LYS:NZ	2:B:546:ASP:OD1	2.21	0.56
2:B:446:VAL:HG22	2:B:451:THR:OG1	2.05	0.56
1:A:735:TYR:OH	13:A:801:CL0:O1A	2.16	0.56
4:D:3:LEU:HD21	4:D:91:THR:HG21	1.87	0.56
14:A:831:CLA:HMB1	14:A:831:CLA:HBB1	1.87	0.56
17:B:846:BCR:H331	17:B:846:BCR:C8	2.35	0.56
2:B:479:THR:HG21	12:X:29:TYR:O	2.05	0.56
1:A:305:ALA:O	1:A:309:ILE:HD12	2.06	0.56
1:A:346:GLU:O	1:A:350:THR:OG1	2.12	0.56
8:J:31:ARG:NH2	14:J:101:CLA:O1D	2.34	0.56
3:C:7:TYR:HH	3:C:67:TYR:HH	1.54	0.55
13:A:801:CL0:H13	14:A:857:CLA:OBD	2.06	0.55
1:A:373:HIS:CD2	14:A:828:CLA:NC	2.74	0.55
9:K:69:LEU:O	9:K:73:VAL:HG23	2.07	0.55
1:A:710:LYS:NZ	14:B:831:CLA:HED1	2.22	0.55
6:F:73:ILE:O	6:F:77:ILE:HG12	2.07	0.54
14:A:825:CLA:HAB	14:A:832:CLA:HMD2	1.89	0.54
14:B:841:CLA:HMB2	17:B:848:BCR:H12C	1.88	0.54
2:B:479:THR:HA	12:X:35:LYS:HG2	1.90	0.54
14:A:828:CLA:HBB1	14:A:828:CLA:HMB1	1.89	0.54
2:B:361:TYR:OH	14:B:828:CLA:OBD	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:K:59:LEU:HD12	9:K:59:LEU:O	2.08	0.54
1:A:270:PHE:HE1	14:K:101:CLA:HBC2	1.73	0.54
14:B:827:CLA:HMC1	14:B:827:CLA:HBC3	1.89	0.54
4:D:7:PRO:O	4:D:50:ARG:NH1	2.40	0.54
1:A:445:ASN:ND2	14:A:843:CLA:OBD	2.40	0.54
14:B:812:CLA:HBB1	14:B:820:CLA:HBC2	1.89	0.54
14:A:838:CLA:HBB1	14:A:838:CLA:HMB1	1.90	0.54
7:I:22:MET:N	7:I:23:PRO:HD2	2.23	0.53
1:A:524:VAL:HG12	1:A:525:ALA:H	1.74	0.53
14:A:839:CLA:HMB2	14:A:840:CLA:C3D	2.38	0.53
2:B:202:ARG:NH2	2:B:252:ALA:O	2.38	0.53
1:A:371:ALA:HB1	1:A:394:PHE:HA	1.89	0.53
2:B:41:LEU:O	2:B:45:ILE:HG12	2.09	0.53
2:B:166:TRP:NE1	14:B:812:CLA:OBD	2.36	0.53
14:B:840:CLA:H193	17:I:101:BCR:C36	2.38	0.53
14:B:809:CLA:H43	17:I:101:BCR:H342	1.90	0.53
1:A:604:ASN:O	1:A:608:VAL:HG23	2.09	0.53
2:B:332:SER:HG	2:B:396:PHE:HD1	1.55	0.53
14:B:806:CLA:HMC2	17:B:844:BCR:H401	1.91	0.53
14:B:815:CLA:HMB1	14:B:815:CLA:HBB1	1.91	0.53
14:A:839:CLA:HBB1	14:A:839:CLA:HMB1	1.91	0.53
2:B:627:ARG:NH2	2:B:628:ASP:OD2	2.40	0.53
2:B:139:ILE:HD12	11:M:14:ILE:HD13	1.91	0.52
1:A:411:HIS:HE1	14:A:831:CLA:NA	2.07	0.52
1:A:588:GLN:NE2	2:B:671:ILE:O	2.34	0.52
2:B:354:HIS:CD2	14:B:826:CLA:NC	2.77	0.52
14:A:822:CLA:HMB2	14:A:826:CLA:HMA3	1.90	0.52
14:A:834:CLA:C3B	14:A:835:CLA:HMB2	2.39	0.52
14:B:838:CLA:HMB2	14:B:839:CLA:C3D	2.39	0.52
14:B:813:CLA:HMB1	14:B:813:CLA:HBB1	1.91	0.52
1:A:329:LEU:HD12	1:A:345:TYR:HB2	1.90	0.52
2:B:664:ALA:HB3	14:B:803:CLA:HBB2	1.91	0.52
6:F:72:TYR:OH	6:F:114:PHE:O	2.27	0.52
1:A:216:GLN:O	1:A:221:LEU:N	2.37	0.52
14:A:803:CLA:HMC2	14:A:857:CLA:HAC1	1.92	0.52
14:A:829:CLA:H193	17:J:103:BCR:C14	2.40	0.52
2:B:637:LEU:HD22	2:B:730:PHE:HA	1.92	0.52
5:E:56:ASN:OD1	5:E:57:THR:HG23	2.10	0.51
2:B:529:ILE:HG21	14:B:837:CLA:CBB	2.40	0.51
14:A:802:CLA:HBB1	14:A:802:CLA:HMB1	1.91	0.51
2:B:678:GLN:NE2	3:C:80:TYR:OH	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:680:HIS:CE1	1:A:742:THR:HG21	2.46	0.51
2:B:569:GLY:HA3	3:C:55:THR:HG22	1.92	0.51
2:B:642:ASN:OD1	2:B:645:GLY:N	2.42	0.51
6:F:64:LEU:O	6:F:67:SER:OG	2.25	0.51
6:F:76:TRP:NE1	14:F:202:CLA:OBD	2.44	0.51
14:B:810:CLA:HMB3	7:I:20:TRP:CZ2	2.45	0.51
2:B:724:ILE:HG23	14:B:827:CLA:HAB	1.92	0.51
6:F:54:ASP:OD1	6:F:55:GLY:N	2.44	0.51
2:B:282:LEU:HG	14:B:819:CLA:HMC1	1.92	0.51
3:C:46:ASP:OD2	4:D:84:ARG:NH2	2.43	0.51
1:A:178:PHE:O	1:A:182:LYS:O	2.28	0.50
14:B:826:CLA:HBB1	14:B:826:CLA:HMB1	1.93	0.50
6:F:84:TYR:CE1	14:F:201:CLA:HED1	2.46	0.50
14:A:817:CLA:HMB1	17:A:848:BCR:H343	1.93	0.50
2:B:176:HIS:CG	14:B:813:CLA:HMC2	2.46	0.50
4:D:61:LYS:HE3	4:D:94:ILE:HD12	1.91	0.50
1:A:326:LYS:NZ	1:A:346:GLU:OE2	2.44	0.50
8:J:17:ILE:HD12	8:J:18:TRP:N	2.25	0.50
14:A:803:CLA:HMD2	2:B:539:ILE:HD13	1.93	0.50
6:F:32:GLN:O	6:F:36:GLU:HG3	2.10	0.50
2:B:275:HIS:HE1	14:B:817:CLA:ND	2.08	0.50
1:A:372:GLN:HB3	14:A:827:CLA:HED1	1.93	0.50
17:A:848:BCR:H362	17:A:849:BCR:HC8	1.93	0.50
6:F:23:ASN:OD1	6:F:31:GLY:N	2.39	0.50
6:F:59:ARG:NH2	6:F:62:ASP:OD1	2.44	0.50
17:L:201:BCR:H331	17:L:201:BCR:C8	2.41	0.50
1:A:482:LEU:H	1:A:533:THR:HG22	1.77	0.50
14:A:820:CLA:O2A	14:A:830:CLA:HMD1	2.12	0.50
9:K:24:LEU:HD13	9:K:69:LEU:HB3	1.93	0.50
2:B:180:GLY:O	2:B:184:VAL:HG22	2.12	0.50
2:B:421:ILE:HG23	14:B:839:CLA:HBB2	1.94	0.50
1:A:539:HIS:CE1	14:A:838:CLA:NC	2.80	0.49
2:B:116:TYR:HA	2:B:370:THR:HG22	1.93	0.49
2:B:474:LEU:H	2:B:474:LEU:HD22	1.78	0.49
6:F:51:LEU:HD21	8:J:37:LEU:HD21	1.94	0.49
6:F:65:ILE:HD12	14:J:102:CLA:HMB3	1.93	0.49
8:J:29:PHE:O	8:J:33:TYR:N	2.41	0.49
4:D:1:THR:OG1	4:D:2:THR:N	2.44	0.49
12:X:23:ASN:HD21	14:X:1701:CLA:C1A	2.25	0.49
4:D:30:THR:HG22	4:D:55:LEU:HD13	1.94	0.49
12:X:28:ALA:HA	12:X:33:ILE:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:GLN:OE1	1:A:472:GLN:N	2.40	0.49
14:B:830:CLA:H3A	14:B:831:CLA:OBD	2.13	0.49
1:A:24:SER:H	14:A:812:CLA:HMA1	1.78	0.49
1:A:259:GLY:N	1:A:262:SER:O	2.45	0.49
1:A:713:VAL:O	1:A:713:VAL:HG22	2.13	0.49
17:J:104:BCR:C8	17:J:104:BCR:H321	2.43	0.49
1:A:344:LEU:HA	1:A:347:VAL:HG22	1.95	0.49
1:A:654:LEU:HD22	13:A:801:CL0:H26	1.94	0.49
1:A:200:HIS:CD2	14:A:814:CLA:NB	2.81	0.49
1:A:337:THR:CG2	14:A:832:CLA:HMD1	2.43	0.49
2:B:279:ILE:HD11	14:B:817:CLA:C3C	2.42	0.49
2:B:530:ALA:HB1	14:B:838:CLA:HMB3	1.95	0.49
1:A:204:LEU:O	1:A:204:LEU:HD23	2.13	0.48
1:A:380:TYR:O	1:A:383:LEU:HD22	2.13	0.48
14:A:842:CLA:HBC1	17:B:847:BCR:H392	1.95	0.48
6:F:96:GLU:O	6:F:100:ILE:HD12	2.12	0.48
9:K:67:HIS:CD2	14:K:101:CLA:NC	2.80	0.48
1:A:490:VAL:HA	1:A:493:LEU:CD2	2.43	0.48
1:A:490:VAL:O	1:A:493:LEU:HD23	2.14	0.48
1:A:751:ILE:O	1:A:755:GLY:N	2.45	0.48
1:A:686:SER:HB2	1:A:731:GLY:O	2.13	0.48
17:I:103:BCR:H392	17:I:103:BCR:H23C	1.95	0.48
1:A:706:TRP:CH2	2:B:420:ALA:HB2	2.49	0.48
1:A:717:ILE:HD12	6:F:98:GLU:HB2	1.96	0.48
14:B:841:CLA:HMB2	17:B:848:BCR:C12	2.43	0.48
1:A:445:ASN:O	1:A:449:ILE:HG13	2.14	0.48
1:A:538:VAL:HG22	1:A:542:HIS:CE1	2.48	0.48
4:D:73:ARG:NH2	4:D:103:GLU:OE2	2.38	0.48
1:A:364:GLY:HA2	1:A:401:GLY:HA2	1.95	0.48
2:B:561:TYR:O	2:B:577:SER:OG	2.30	0.48
3:C:23:ASP:O	3:C:43:ARG:NE	2.40	0.48
8:J:23:ALA:O	8:J:27:ILE:HD12	2.14	0.48
1:A:188:GLU:OE1	1:A:188:GLU:N	2.46	0.48
1:A:201:LEU:HD12	1:A:308:PHE:O	2.14	0.48
2:B:528:ALA:HB1	14:B:802:CLA:H192	1.96	0.48
14:B:816:CLA:HBB1	14:B:816:CLA:HMB1	1.96	0.48
10:L:41:LEU:O	10:L:46:ARG:NH2	2.47	0.48
18:A:856:LMG:HO4	18:A:856:LMG:HO5	1.50	0.48
2:B:672:SER:O	15:B:842:PQN:H9	2.14	0.48
10:L:110:PRO:O	10:L:113:THR:HG22	2.14	0.48
1:A:628:ASP:N	1:A:628:ASP:OD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:A:805:CLA:H143	14:A:810:CLA:C14	2.38	0.47
14:A:826:CLA:HMD2	14:A:826:CLA:H142	1.96	0.47
2:B:139:ILE:HD12	11:M:14:ILE:CD1	2.44	0.47
10:L:69:ARG:HA	10:L:74:ALA:HB2	1.96	0.47
2:B:266:SER:OG	2:B:267:LEU:N	2.48	0.47
2:B:660:HIS:CE1	2:B:726:THR:HG21	2.49	0.47
1:A:513:PHE:HE1	14:A:828:CLA:HBC2	1.80	0.47
2:B:522:ASP:OD2	2:B:603:LYS:NZ	2.39	0.47
14:B:803:CLA:CGA	14:B:803:CLA:H3A	2.45	0.47
14:B:804:CLA:HMB1	14:B:804:CLA:HBB1	1.95	0.47
6:F:54:ASP:OD2	17:F:203:BCR:H393	2.14	0.47
17:L:208:BCR:H311	17:L:208:BCR:H343	1.96	0.47
14:A:810:CLA:C2	14:A:810:CLA:H92	2.44	0.47
2:B:300:ILE:O	2:B:304:MET:HG2	2.14	0.47
2:B:479:THR:CG2	12:X:35:LYS:HG2	2.42	0.47
14:B:808:CLA:C1A	14:B:808:CLA:CGA	2.92	0.47
1:A:65:LEU:HD12	1:A:65:LEU:O	2.15	0.47
1:A:638:ASN:O	1:A:642:SER:N	2.42	0.47
1:A:662:ILE:HD12	2:B:627:ARG:HG3	1.96	0.47
14:J:101:CLA:HBB1	14:J:101:CLA:HMB1	1.96	0.47
1:A:367:SER:OG	1:A:400:ILE:HD11	2.15	0.47
1:A:683:TRP:HZ3	14:A:857:CLA:HMD1	1.79	0.47
2:B:154:LEU:HD23	2:B:155:HIS:HD1	1.79	0.47
2:B:376:THR:HG22	2:B:597:THR:HG22	1.96	0.47
2:B:652:TRP:O	2:B:729:ALA:HB1	2.15	0.47
10:L:143:LEU:H	10:L:143:LEU:HD22	1.80	0.47
1:A:245:ASN:O	1:A:248:LEU:HD12	2.14	0.47
14:A:804:CLA:H91	8:J:16:ALA:HB2	1.97	0.47
14:A:857:CLA:HMB3	14:B:802:CLA:H202	1.96	0.47
2:B:288:HIS:CD2	14:B:820:CLA:NA	2.82	0.47
1:A:459:TYR:HB3	1:A:646:ILE:HD11	1.96	0.47
14:B:813:CLA:HMA2	14:B:813:CLA:O1A	2.14	0.47
14:B:833:CLA:H43	17:J:105:BCR:H361	1.97	0.47
6:F:84:TYR:O	6:F:88:VAL:HG23	2.15	0.47
1:A:201:LEU:O	1:A:201:LEU:HD13	2.14	0.47
1:A:587:CYS:HB2	2:B:673:TRP:HB3	1.97	0.47
2:B:17:THR:O	2:B:20:ILE:N	2.47	0.47
2:B:74:GLU:OE2	11:M:1:MET:N	2.34	0.47
17:I:103:BCR:H383	10:L:93:LEU:HD21	1.96	0.47
1:A:337:THR:HG22	14:A:832:CLA:HMD1	1.97	0.46
1:A:689:PHE:CD2	1:A:730:VAL:HG11	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:A:820:CLA:H92	14:A:830:CLA:H102	1.98	0.46
2:B:275:HIS:HB2	14:B:817:CLA:C1B	2.46	0.46
10:L:59:ILE:HG22	10:L:78:GLY:O	2.16	0.46
14:A:803:CLA:CGA	14:A:803:CLA:H3A	2.46	0.46
14:B:803:CLA:H143	17:B:848:BCR:H362	1.97	0.46
1:A:120:ILE:HG23	1:A:121:VAL:N	2.29	0.46
17:A:852:BCR:H373	2:B:437:LEU:CD1	2.45	0.46
1:A:451:LEU:HD13	1:A:544:PHE:HA	1.97	0.46
2:B:637:LEU:HD13	2:B:733:ALA:HB3	1.98	0.46
2:B:727:TYR:N	14:B:802:CLA:O1D	2.49	0.46
9:K:21:LEU:HD12	14:K:101:CLA:CAD	2.46	0.46
1:A:410:ALA:CB	1:A:595:VAL:HG11	2.45	0.46
1:A:429:VAL:HG23	14:A:825:CLA:HBC2	1.98	0.46
14:A:814:CLA:HMA2	14:A:814:CLA:C2	2.46	0.46
14:A:841:CLA:H143	14:F:202:CLA:HAC1	1.98	0.46
3:C:14:THR:O	3:C:18:ARG:NE	2.46	0.46
9:K:21:LEU:HD12	14:K:101:CLA:OBD	2.15	0.46
9:K:24:LEU:HD13	9:K:69:LEU:CB	2.46	0.46
1:A:396:HIS:HE1	14:A:829:CLA:ND	2.10	0.46
2:B:329:TYR:CZ	14:B:824:CLA:NC	2.83	0.46
14:L:206:CLA:H51	14:L:206:CLA:H92	1.97	0.46
1:A:396:HIS:HB2	14:A:829:CLA:C1B	2.46	0.46
1:A:547:HIS:CD2	14:A:840:CLA:NB	2.83	0.46
14:B:834:CLA:HMD2	14:B:835:CLA:CHC	2.46	0.46
1:A:696:TYR:CE2	2:B:539:ILE:HG23	2.52	0.45
14:A:811:CLA:HBC3	14:A:811:CLA:HHD	1.98	0.45
2:B:337:LEU:HD23	2:B:392:HIS:ND1	2.31	0.45
1:A:175:ALA:HB2	14:A:811:CLA:HBC2	1.98	0.45
1:A:300:HIS:HB2	14:A:819:CLA:C1B	2.46	0.45
1:A:575:ARG:NH1	14:A:831:CLA:O1D	2.46	0.45
3:C:64:ILE:HB	16:C:102:SF4:S3	2.56	0.45
9:K:40:GLY:N	9:K:41:PRO:CD	2.79	0.45
1:A:175:ALA:CA	14:A:811:CLA:HBC2	2.46	0.45
1:A:461:HIS:HE1	14:A:835:CLA:NA	2.13	0.45
14:B:804:CLA:HBC1	18:B:849:LMG:H202	1.98	0.45
17:B:843:BCR:H331	17:B:843:BCR:C8	2.45	0.45
1:A:349:THR:O	1:A:349:THR:HG22	2.16	0.45
14:A:830:CLA:HMB1	14:A:830:CLA:HBB1	1.98	0.45
17:A:847:BCR:C8	17:A:847:BCR:H331	2.47	0.45
2:B:301:LYS:NZ	2:B:327:GLU:OE2	2.46	0.45
2:B:604:HIS:HB3	2:B:608:TRP:CH2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:659:GLY:HA2	2:B:722:GLY:HA2	1.98	0.45
2:B:717:ALA:O	2:B:721:VAL:HG23	2.15	0.45
6:F:24:THR:OG1	6:F:34:ARG:NH1	2.50	0.45
8:J:36:LEU:HD11	17:J:105:BCR:C39	2.46	0.45
1:A:126:LEU:HB3	1:A:137:ILE:HD11	1.98	0.45
1:A:392:SER:HB3	14:A:829:CLA:HMA1	1.99	0.45
2:B:96:GLY:O	2:B:100:VAL:HG23	2.16	0.45
2:B:651:VAL:HG13	14:B:809:CLA:HAC1	1.98	0.45
4:D:67:LEU:HD12	4:D:71:GLN:HB2	1.99	0.45
14:A:804:CLA:HMC2	14:A:805:CLA:C2D	2.47	0.45
14:A:815:CLA:C1B	17:A:848:BCR:H342	2.46	0.45
2:B:19:ARG:NH2	7:I:34:ILE:O	2.50	0.45
9:K:59:LEU:HD12	9:K:59:LEU:C	2.37	0.45
1:A:299:HIS:HE1	14:A:818:CLA:C4D	2.30	0.45
6:F:101:ILE:O	8:J:9:SER:HB3	2.17	0.45
14:J:101:CLA:CMD	17:J:104:BCR:H331	2.47	0.45
1:A:76:HIS:CE1	14:A:806:CLA:ND	2.84	0.45
1:A:718:GLN:NE2	5:E:15:TYR:OH	2.50	0.45
14:A:826:CLA:HBB1	14:A:826:CLA:HMB1	1.98	0.45
14:A:841:CLA:H143	14:F:202:CLA:CAC	2.46	0.45
17:A:852:BCR:H372	2:B:441:VAL:HG11	1.99	0.45
17:B:845:BCR:H24C	17:B:845:BCR:H371	1.83	0.45
5:E:24:ALA:O	5:E:25:SER:O	2.35	0.45
2:B:114:ILE:HD11	2:B:116:TYR:CZ	2.52	0.44
2:B:630:LEU:O	2:B:634:SER:OG	2.24	0.44
1:A:91:TYR:HD1	1:A:158:LEU:HD23	1.81	0.44
1:A:120:ILE:HD11	8:J:31:ARG:HB2	1.98	0.44
1:A:181:HIS:CD2	14:A:812:CLA:NC	2.85	0.44
1:A:444:LEU:HA	1:A:447:VAL:HG12	1.99	0.44
14:A:820:CLA:HMB1	14:A:820:CLA:HBB1	1.99	0.44
15:A:845:PQN:H192	17:B:847:BCR:H24C	2.00	0.44
2:B:662:VAL:HG13	2:B:718:HIS:HD2	1.82	0.44
2:B:176:HIS:O	2:B:180:GLY:N	2.46	0.44
1:A:52:HIS:HB3	14:A:805:CLA:HBC1	1.99	0.44
1:A:68:ILE:O	1:A:72:ILE:HG13	2.17	0.44
14:A:825:CLA:HBB1	14:A:825:CLA:HMB1	1.99	0.44
2:B:192:HIS:HB2	14:B:814:CLA:CHC	2.47	0.44
2:B:658:PHE:O	2:B:662:VAL:HG23	2.18	0.44
1:A:52:HIS:HB2	19:A:854:LHG:H111	1.98	0.44
14:A:841:CLA:H93	15:A:845:PQN:H293	1.98	0.44
2:B:662:VAL:HG12	2:B:718:HIS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:606:ILE:HA	1:A:609:VAL:HG22	1.99	0.44
14:A:857:CLA:O1D	14:A:857:CLA:H2A	2.18	0.44
2:B:123:TRP:HA	2:B:126:ILE:HG12	1.98	0.44
2:B:313:LYS:HE3	2:B:313:LYS:HB2	1.84	0.44
1:A:289:THR:O	1:A:382:TYR:N	2.41	0.44
1:A:299:HIS:HA	1:A:302:LEU:CD2	2.48	0.44
2:B:528:ALA:HB2	14:B:802:CLA:H192	2.00	0.44
6:F:23:ASN:OD1	6:F:30:SER:N	2.51	0.44
1:A:358:ILE:HD11	23:A:901:HOH:O	2.17	0.44
1:A:461:HIS:O	1:A:465:MET:HG2	2.18	0.44
14:A:841:CLA:C9	14:A:841:CLA:HMC2	2.48	0.44
2:B:570:ARG:N	5:E:47:GLY:O	2.50	0.44
14:B:836:CLA:HHC	14:B:836:CLA:HBB1	1.99	0.44
6:F:100:ILE:HG22	6:F:100:ILE:O	2.18	0.44
8:J:12:PRO:HB2	17:J:104:BCR:H401	2.00	0.44
10:L:83:ILE:HD13	10:L:129:MET:SD	2.57	0.44
1:A:635:THR:OG1	1:A:638:ASN:OD1	2.35	0.43
14:A:802:CLA:H3A	14:A:802:CLA:O1A	2.18	0.43
14:A:805:CLA:C14	14:A:810:CLA:H143	2.45	0.43
2:B:261:HIS:N	2:B:266:SER:O	2.34	0.43
6:F:2:VAL:O	6:F:5:LEU:HD13	2.19	0.43
6:F:57:LEU:HA	6:F:60:ALA:HB2	1.98	0.43
1:A:214:GLY:O	1:A:218:HIS:HB2	2.18	0.43
2:B:328:THR:O	2:B:332:SER:N	2.46	0.43
14:B:814:CLA:H121	14:B:814:CLA:H91	1.99	0.43
6:F:25:THR:OG1	6:F:26:ALA:N	2.51	0.43
8:J:17:ILE:HA	8:J:20:THR:HG22	2.00	0.43
2:B:177:HIS:CD2	14:B:813:CLA:NB	2.85	0.43
2:B:226:THR:OG1	2:B:228:ASN:ND2	2.44	0.43
2:B:466:ILE:CD1	14:B:834:CLA:HMC3	2.49	0.43
17:I:101:BCR:H20C	17:I:101:BCR:H361	1.89	0.43
1:A:51:LEU:C	1:A:51:LEU:HD23	2.38	0.43
1:A:332:HIS:CD2	14:A:824:CLA:NB	2.86	0.43
1:A:717:ILE:HG22	1:A:717:ILE:O	2.17	0.43
2:B:392:HIS:HE1	14:B:829:CLA:NA	2.15	0.43
2:B:531:LEU:O	2:B:535:THR:HG22	2.19	0.43
6:F:65:ILE:HB	6:F:66:PRO:HD3	2.01	0.43
14:A:833:CLA:HMA1	2:B:691:THR:OG1	2.18	0.43
2:B:49:HIS:CE1	14:B:805:CLA:ND	2.86	0.43
1:A:673:GLY:O	1:A:676:PHE:HB3	2.18	0.43
1:A:717:ILE:HD12	6:F:98:GLU:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:23:ALA:O	2:B:27:ALA:HB2	2.19	0.43
1:A:416:MET:O	1:A:561:ARG:NE	2.52	0.43
2:B:182:PHE:HB3	2:B:283:PHE:CD2	2.54	0.43
2:B:412:ASP:O	2:B:416:GLN:HG2	2.19	0.43
5:E:37:ILE:N	5:E:37:ILE:HD12	2.33	0.43
8:J:18:TRP:O	8:J:21:ILE:HG13	2.18	0.43
17:L:201:BCR:H15C	17:L:201:BCR:H351	1.91	0.43
1:A:219:VAL:HG13	1:A:239:PRO:HB3	2.01	0.43
1:A:385:THR:CG2	1:A:520:VAL:HB	2.49	0.43
1:A:392:SER:HB3	14:A:829:CLA:HBB	2.01	0.43
14:A:806:CLA:HBB1	14:A:806:CLA:HMB1	1.99	0.43
14:A:817:CLA:HBB2	17:A:848:BCR:H352	2.01	0.43
2:B:313:LYS:O	2:B:314:VAL:HG13	2.18	0.43
2:B:473:LEU:H	2:B:473:LEU:HD12	1.83	0.43
14:B:824:CLA:HMB1	14:B:824:CLA:HBB1	2.00	0.43
14:B:837:CLA:HMB2	14:B:839:CLA:HED1	2.00	0.43
2:B:154:LEU:HD23	2:B:155:HIS:ND1	2.34	0.43
14:B:811:CLA:O2D	14:B:811:CLA:H2A	2.19	0.43
7:I:22:MET:O	7:I:26:VAL:HG13	2.18	0.43
10:L:57:PHE:CD1	10:L:57:PHE:C	2.92	0.43
1:A:719:PRO:CB	14:F:201:CLA:HMC3	2.49	0.43
14:A:810:CLA:HAB	14:B:833:CLA:HMD2	1.99	0.43
1:A:484:PRO:HB3	14:A:839:CLA:HED3	2.02	0.42
14:A:813:CLA:HBC2	14:A:813:CLA:HHB	2.01	0.42
2:B:207:GLY:C	14:B:814:CLA:HMD1	2.39	0.42
14:B:832:CLA:CAB	14:B:833:CLA:HMB2	2.48	0.42
14:A:803:CLA:HMB1	14:A:803:CLA:HBB1	2.00	0.42
8:J:36:LEU:HD11	17:J:105:BCR:H393	2.01	0.42
1:A:219:VAL:CG1	14:A:815:CLA:HED1	2.50	0.42
1:A:697:TRP:CZ2	15:A:845:PQN:H2M3	2.55	0.42
14:A:805:CLA:HBC2	14:A:831:CLA:H43	2.01	0.42
14:A:807:CLA:HED1	14:A:807:CLA:O1A	2.19	0.42
2:B:344:LEU:O	2:B:348:THR:OG1	2.34	0.42
2:B:418:LYS:CB	2:B:545:LEU:HD13	2.49	0.42
1:A:406:VAL:HG11	1:A:599:LEU:HG	2.01	0.42
1:A:433:VAL:HA	1:A:436:HIS:CE1	2.55	0.42
2:B:618:SER:H	2:B:618:SER:HG	1.65	0.42
1:A:307:LEU:HB3	14:A:822:CLA:HMC1	2.00	0.42
1:A:685:PHE:HZ	14:A:842:CLA:HBC2	1.85	0.42
14:A:808:CLA:C6	14:J:101:CLA:HBC1	2.50	0.42
2:B:222:ALA:N	2:B:223:PRO:CD	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:535:THR:O	2:B:539:ILE:HG13	2.20	0.42
4:D:95:HIS:HB3	4:D:96:PRO:CD	2.50	0.42
6:F:70:PHE:O	6:F:71:LEU:C	2.57	0.42
6:F:82:ARG:O	6:F:86:ILE:HG13	2.19	0.42
10:L:34:LEU:O	10:L:38:ARG:N	2.46	0.42
1:A:451:LEU:HB3	1:A:544:PHE:HB2	2.02	0.42
14:A:803:CLA:HMA2	17:B:847:BCR:H401	2.02	0.42
17:A:852:BCR:H393	17:J:103:BCR:H322	2.02	0.42
2:B:382:ALA:O	2:B:386:MET:HG2	2.20	0.42
14:B:838:CLA:HMB2	14:B:839:CLA:C2D	2.50	0.42
6:F:103:VAL:HG22	6:F:107:ILE:CD1	2.48	0.42
2:B:372:ALA:O	2:B:376:THR:HG23	2.20	0.42
2:B:583:TYR:HH	2:B:670:LEU:HD22	1.75	0.42
17:B:847:BCR:C34	6:F:73:ILE:HG21	2.50	0.42
4:D:85:ILE:HG12	4:D:91:THR:HG23	2.01	0.42
7:I:22:MET:HG3	7:I:23:PRO:HD3	2.01	0.42
14:L:205:CLA:HMB1	14:L:205:CLA:HBB1	2.02	0.42
14:A:806:CLA:H191	17:A:848:BCR:H12C	2.02	0.41
11:M:14:ILE:O	11:M:18:PRO:HD2	2.20	0.41
1:A:93:HIS:HE1	14:A:808:CLA:NC	2.18	0.41
1:A:508:THR:HG22	1:A:509:ALA:N	2.35	0.41
14:A:812:CLA:HMB1	14:A:812:CLA:HBB1	2.02	0.41
2:B:24:ILE:HA	14:B:804:CLA:HMD3	2.02	0.41
2:B:207:GLY:N	2:B:210:ASN:OD1	2.49	0.41
2:B:272:MET:SD	14:B:818:CLA:HMA2	2.60	0.41
1:A:397:HIS:O	1:A:400:ILE:HG13	2.20	0.41
1:A:436:HIS:CG	1:A:436:HIS:O	2.73	0.41
2:B:279:ILE:CG2	2:B:283:PHE:CE2	3.03	0.41
3:C:9:THR:HG1	3:C:63:SER:CB	2.22	0.41
17:I:103:BCR:C40	10:L:89:ALA:HB1	2.50	0.41
9:K:24:LEU:HD11	9:K:66:GLY:O	2.21	0.41
2:B:376:THR:O	2:B:380:TYR:HD2	2.04	0.41
2:B:664:ALA:O	2:B:667:PHE:HB2	2.20	0.41
14:B:826:CLA:HBC3	14:B:826:CLA:HHD	2.02	0.41
14:J:101:CLA:HMD3	17:J:104:BCR:H331	2.01	0.41
14:A:805:CLA:HMA2	14:A:812:CLA:HMD2	2.03	0.41
14:A:809:CLA:HBB1	14:A:809:CLA:HMB1	2.03	0.41
14:B:805:CLA:HBC2	14:B:829:CLA:HMA1	2.01	0.41
3:C:24:VAL:HG21	3:C:47:CYS:HB2	2.02	0.41
1:A:487:ALA:HA	1:A:490:VAL:HG22	2.02	0.41
2:B:377:HIS:CD2	2:B:378:HIS:HD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:19:ALA:HB1	3:C:52:ARG:HB3	2.02	0.41
10:L:20:PRO:HA	10:L:24:SER:HB3	2.03	0.41
17:L:201:BCR:H20C	17:L:201:BCR:H361	1.93	0.41
11:M:16:LEU:O	11:M:19:ALA:HB3	2.19	0.41
1:A:78:GLY:O	1:A:82:VAL:HG23	2.20	0.41
1:A:675:LEU:HD12	1:A:744:TRP:CZ3	2.56	0.41
2:B:444:ASP:OD1	2:B:621:TYR:HB2	2.21	0.41
3:C:60:ASP:HB2	5:E:58:ASN:CG	2.40	0.41
6:F:116:TRP:N	6:F:117:PRO:CD	2.83	0.41
17:I:103:BCR:H15C	17:I:103:BCR:H351	1.88	0.41
8:J:21:ILE:O	8:J:25:ILE:HD12	2.20	0.41
1:A:120:ILE:CG2	1:A:121:VAL:N	2.84	0.41
1:A:215:HIS:HB2	14:A:815:CLA:CHC	2.50	0.41
1:A:410:ALA:O	1:A:414:ILE:HG13	2.21	0.41
1:A:722:LEU:HD12	15:A:845:PQN:C4	2.50	0.41
14:A:810:CLA:CMB	8:J:27:ILE:HG12	2.51	0.41
2:B:424:HIS:CD2	14:B:831:CLA:NC	2.89	0.41
14:B:825:CLA:HBA1	14:B:826:CLA:HED3	2.03	0.41
6:F:66:PRO:HG3	17:J:105:BCR:H362	2.03	0.41
8:J:36:LEU:HD12	17:J:105:BCR:H21C	2.03	0.41
9:K:74:VAL:O	9:K:74:VAL:HG12	2.20	0.41
1:A:333:LYS:H	14:A:844:CLA:HBC3	1.86	0.41
1:A:429:VAL:HB	14:A:825:CLA:HMC3	2.02	0.41
1:A:513:PHE:N	1:A:513:PHE:CD1	2.89	0.41
1:A:602:MET:O	1:A:606:ILE:HG12	2.21	0.41
2:B:194:ILE:HA	2:B:198:ILE:HD12	2.03	0.41
2:B:337:LEU:HD23	2:B:392:HIS:CG	2.55	0.41
2:B:503:TRP:CE2	14:B:834:CLA:HED1	2.56	0.41
2:B:681:ILE:O	2:B:685:VAL:HG23	2.19	0.41
6:F:103:VAL:N	6:F:104:PRO:CD	2.84	0.41
11:M:23:PHE:CE1	11:M:27:THR:HG21	2.55	0.41
1:A:603:TYR:OH	13:A:801:CL0:H29	2.22	0.41
2:B:648:ASN:OD1	2:B:648:ASN:N	2.52	0.41
17:F:203:BCR:H20C	17:F:203:BCR:H361	1.92	0.41
11:M:30:TYR:O	11:M:31:LYS:OXT	2.38	0.41
1:A:224:ASN:HD21	1:A:294:LEU:HD13	1.84	0.40
1:A:396:HIS:HE1	14:A:829:CLA:C1D	2.34	0.40
1:A:732:VAL:HG22	1:A:736:LEU:HD12	2.03	0.40
2:B:537:THR:O	2:B:541:VAL:HG22	2.21	0.40
9:K:69:LEU:HA	14:K:102:CLA:HBC2	2.01	0.40
10:L:143:LEU:HD22	10:L:143:LEU:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:587:CYS:HB3	2:B:673:TRP:HE3	1.86	0.40
2:B:318:PHE:CD1	14:B:823:CLA:HMB3	2.57	0.40
1:A:156:PHE:O	1:A:159:TYR:N	2.55	0.40
1:A:348:LEU:CD1	14:A:826:CLA:HMC2	2.52	0.40
14:A:822:CLA:H141	14:A:822:CLA:H171	2.04	0.40
14:A:843:CLA:HHC	14:A:843:CLA:HBB1	2.02	0.40
17:A:852:BCR:H362	14:A:857:CLA:H42	2.01	0.40
2:B:676:TYR:CE2	14:B:803:CLA:HMD1	2.56	0.40
17:B:845:BCR:H20C	17:B:845:BCR:H361	1.92	0.40
7:I:15:ILE:N	7:I:15:ILE:HD12	2.36	0.40
7:I:30:LEU:O	7:I:34:ILE:HG12	2.21	0.40
8:J:31:ARG:HH12	14:J:101:CLA:HED2	1.86	0.40
1:A:55:ALA:HB1	14:A:805:CLA:C1D	2.51	0.40
1:A:535:ASP:HA	1:A:538:VAL:HG12	2.04	0.40
14:A:806:CLA:O1D	14:A:806:CLA:H2A	2.21	0.40
2:B:552:LEU:HD23	2:B:576:ILE:CD1	2.51	0.40
2:B:668:MET:HB2	14:B:803:CLA:CHC	2.52	0.40
15:B:842:PQN:H111	15:B:842:PQN:H2M1	1.90	0.40
17:B:846:BCR:C23	17:B:846:BCR:H403	2.51	0.40
17:B:851:BCR:H20C	17:B:851:BCR:H361	1.96	0.40
4:D:9:LEU:HD22	4:D:9:LEU:N	2.36	0.40
10:L:54:HIS:HA	10:L:57:PHE:CD2	2.57	0.40
1:A:696:TYR:CE2	2:B:542:LYS:HD2	2.57	0.40
14:A:833:CLA:HMB1	14:A:843:CLA:HAA2	2.03	0.40
2:B:368:HIS:HB3	2:B:608:TRP:CH2	2.57	0.40
6:F:88:VAL:O	6:F:91:SER:OG	2.36	0.40
8:J:33:TYR:CD2	17:J:105:BCR:H401	2.56	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:L:301:HOH:O	23:L:302:HOH:O[3_455]	1.08	1.12
10:L:67:PRO:O	23:L:302:HOH:O[3_455]	2.05	0.15

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	736/755 (98%)	688 (94%)	48 (6%)	0	100	100
2	B	737/740 (100%)	695 (94%)	42 (6%)	0	100	100
3	C	78/80 (98%)	75 (96%)	3 (4%)	0	100	100
4	D	136/138 (99%)	124 (91%)	12 (9%)	0	100	100
5	E	67/75 (89%)	60 (90%)	6 (9%)	1 (2%)	10	42
6	F	139/164 (85%)	128 (92%)	11 (8%)	0	100	100
7	I	36/38 (95%)	30 (83%)	6 (17%)	0	100	100
8	J	39/41 (95%)	37 (95%)	2 (5%)	0	100	100
9	K	43/83 (52%)	38 (88%)	5 (12%)	0	100	100
10	L	149/154 (97%)	146 (98%)	3 (2%)	0	100	100
11	M	29/31 (94%)	27 (93%)	2 (7%)	0	100	100
12	X	27/35 (77%)	26 (96%)	1 (4%)	0	100	100
All	All	2216/2334 (95%)	2074 (94%)	141 (6%)	1 (0%)	100	100

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	E	25	SER

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	A	589/603 (98%)	579 (98%)	10 (2%)	60	85
2	B	597/597 (100%)	586 (98%)	11 (2%)	59	85
3	C	67/67 (100%)	64 (96%)	3 (4%)	27	64
4	D	115/115 (100%)	115 (100%)	0	100	100
5	E	59/64 (92%)	57 (97%)	2 (3%)	37	72
6	F	109/128 (85%)	107 (98%)	2 (2%)	59	85
7	I	32/32 (100%)	32 (100%)	0	100	100
8	J	36/36 (100%)	36 (100%)	0	100	100
9	K	33/61 (54%)	30 (91%)	3 (9%)	9	34
10	L	117/119 (98%)	112 (96%)	5 (4%)	29	66
11	M	26/26 (100%)	26 (100%)	0	100	100
12	X	23/27 (85%)	21 (91%)	2 (9%)	10	37
All	All	1803/1875 (96%)	1765 (98%)	38 (2%)	53	82

All (38) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	73	PHE
1	A	84	PHE
1	A	115	GLN
1	A	225	LYS
1	A	257	ASP
1	A	268	PHE
1	A	281	PHE
1	A	345	TYR
1	A	415	PHE
1	A	602	MET
2	B	155	HIS
2	B	161	ARG
2	B	212	LEU
2	B	256	PHE
2	B	299	SER
2	B	339	TRP
2	B	378	HIS
2	B	396	PHE
2	B	523	PHE
2	B	575	ASP
2	B	582	PHE
3	C	16	CYS

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Mol	Chain	Res	Type
3	C	18	ARG
3	C	65	ARG
5	E	62	LEU
5	E	63	HIS
6	F	95	ASN
6	F	134	ASN
9	K	25	PHE
9	K	29	LEU
9	K	43	LEU
10	L	38	ARG
10	L	57	PHE
10	L	62	TRP
10	L	72	ASP
10	L	101	PHE
12	X	23	ASN
12	X	30	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	18	ASN
1	A	318	ASN
1	A	542	HIS
1	A	657	GLN
1	A	718	GLN
1	A	726	GLN
2	B	105	GLN
2	B	228	ASN
2	B	336	GLN
2	B	406	ASN
3	C	37	GLN
4	D	37	GLN
4	D	71	GLN
5	E	59	ASN
5	E	66	GLN
6	F	134	ASN
8	J	30	ASN
10	L	16	HIS
10	L	75	ASN
10	L	102	GLN
11	M	7	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 135 ligands modelled in this entry, 2 are monoatomic - leaving 133 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
14	CLA	A	835	-	65,73,73	1.56	6 (9%)	76,113,113	1.31	7 (9%)
14	CLA	A	839	-	65,73,73	1.48	6 (9%)	76,113,113	1.35	9 (11%)
14	CLA	A	840	-	47,55,73	1.78	5 (10%)	54,91,113	1.48	8 (14%)
17	BCR	B	851	-	41,41,41	1.10	2 (4%)	56,56,56	1.17	5 (8%)
14	CLA	A	811	-	45,53,73	1.82	5 (11%)	52,89,113	1.52	8 (15%)
14	CLA	A	815	-	45,53,73	1.85	6 (13%)	52,89,113	1.46	7 (13%)
15	PQN	B	842	-	34,34,34	2.06	7 (20%)	42,45,45	1.17	5 (11%)
14	CLA	A	807	-	65,73,73	1.55	6 (9%)	76,113,113	1.27	6 (7%)
17	BCR	I	101	-	41,41,41	1.10	2 (4%)	56,56,56	1.29	6 (10%)
14	CLA	A	842	-	65,73,73	1.52	7 (10%)	76,113,113	1.37	6 (7%)
14	CLA	J	101	8	45,53,73	1.81	5 (11%)	52,89,113	1.54	7 (13%)
17	BCR	L	201	-	41,41,41	1.11	2 (4%)	56,56,56	1.28	8 (14%)
14	CLA	B	834	-	45,53,73	1.81	5 (11%)	52,89,113	1.57	7 (13%)
14	CLA	B	819	23	65,73,73	1.49	7 (10%)	76,113,113	1.35	8 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
14	CLA	B	831	-	49,57,73	1.73	5 (10%)	55,93,113	1.53	8 (14%)
14	CLA	B	832	-	65,73,73	1.51	5 (7%)	76,113,113	1.30	8 (10%)
17	BCR	I	103	-	41,41,41	1.10	2 (4%)	56,56,56	1.29	7 (12%)
14	CLA	M	102	23	45,53,73	1.82	6 (13%)	52,89,113	1.50	8 (15%)
18	LMG	A	856	-	30,30,55	1.01	2 (6%)	37,37,63	1.29	5 (13%)
14	CLA	B	804	-	54,62,73	1.66	6 (11%)	62,99,113	1.45	10 (16%)
14	CLA	A	830	-	65,73,73	1.50	6 (9%)	76,113,113	1.34	6 (7%)
14	CLA	B	824	2	54,62,73	1.66	6 (11%)	62,99,113	1.41	7 (11%)
17	BCR	J	103	-	41,41,41	1.13	2 (4%)	56,56,56	1.27	7 (12%)
14	CLA	B	829	-	65,73,73	1.50	6 (9%)	76,113,113	1.42	10 (13%)
14	CLA	A	833	-	65,73,73	1.48	6 (9%)	76,113,113	1.27	7 (9%)
14	CLA	B	818	-	60,68,73	1.56	5 (8%)	70,107,113	1.37	7 (10%)
21	LMT	L	202	-	36,36,36	1.15	4 (11%)	47,47,47	1.03	2 (4%)
14	CLA	B	833	-	58,66,73	1.59	6 (10%)	67,104,113	1.39	7 (10%)
14	CLA	B	839	-	47,55,73	1.81	5 (10%)	54,91,113	1.45	8 (14%)
19	LHG	A	854	-	48,48,48	0.62	1 (2%)	51,54,54	1.24	6 (11%)
16	SF4	A	846	1,2	0,12,12	-	-	-	-	-
14	CLA	A	804	-	65,73,73	1.52	6 (9%)	76,113,113	1.29	7 (9%)
14	CLA	B	841	-	65,73,73	1.55	5 (7%)	76,113,113	1.33	8 (10%)
17	BCR	M	103	-	41,41,41	1.10	2 (4%)	56,56,56	1.27	8 (14%)
14	CLA	A	834	-	65,73,73	1.55	5 (7%)	76,113,113	1.27	8 (10%)
14	CLA	B	807	-	65,73,73	1.52	5 (7%)	76,113,113	1.32	7 (9%)
17	BCR	F	203	-	41,41,41	1.05	2 (4%)	56,56,56	1.24	7 (12%)
14	CLA	A	806	-	65,73,73	1.51	5 (7%)	76,113,113	1.38	9 (11%)
14	CLA	A	813	-	54,62,73	1.66	6 (11%)	62,99,113	1.39	6 (9%)
14	CLA	A	817	23	49,57,73	1.73	5 (10%)	55,93,113	1.44	7 (12%)
17	BCR	B	846	-	41,41,41	1.03	2 (4%)	56,56,56	1.27	8 (14%)
14	CLA	A	824	-	51,59,73	1.69	5 (9%)	59,96,113	1.46	8 (13%)
17	BCR	A	849	-	41,41,41	1.08	2 (4%)	56,56,56	1.19	4 (7%)
14	CLA	A	805	14	59,67,73	1.59	6 (10%)	68,105,113	1.34	8 (11%)
14	CLA	B	809	2	65,73,73	1.49	5 (7%)	76,113,113	1.43	8 (10%)
17	BCR	B	844	-	41,41,41	1.08	2 (4%)	56,56,56	1.27	9 (16%)
14	CLA	A	843	23	65,73,73	1.54	5 (7%)	76,113,113	1.37	7 (9%)
14	CLA	B	802	-	65,73,73	1.49	5 (7%)	76,113,113	1.35	6 (7%)
16	SF4	C	102	3	0,12,12	-	-	-	-	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
14	CLA	B	812	-	45,53,73	1.85	5 (11%)	52,89,113	1.53	8 (15%)
18	LMG	I	102	-	40,40,55	0.90	1 (2%)	48,48,63	1.26	6 (12%)
18	LMG	A	853	-	48,48,55	0.77	0	56,56,63	1.29	5 (8%)
14	CLA	B	811	-	45,53,73	1.83	5 (11%)	52,89,113	1.65	8 (15%)
14	CLA	B	808	-	65,73,73	1.51	7 (10%)	76,113,113	1.28	7 (9%)
14	CLA	A	836	-	54,62,73	1.70	5 (9%)	62,99,113	1.37	8 (12%)
14	CLA	B	820	-	47,55,73	1.76	6 (12%)	54,91,113	1.49	6 (11%)
14	CLA	A	821	-	42,50,73	1.85	6 (14%)	47,84,113	1.65	7 (14%)
14	CLA	B	810	2	65,73,73	1.50	6 (9%)	76,113,113	1.42	8 (10%)
14	CLA	A	810	1	65,73,73	1.52	6 (9%)	76,113,113	1.37	7 (9%)
22	DGD	L	207	-	67,67,67	0.93	3 (4%)	81,81,81	1.40	14 (17%)
14	CLA	A	838	-	51,59,73	1.71	5 (9%)	59,96,113	1.46	7 (11%)
14	CLA	A	803	-	65,73,73	1.50	6 (9%)	76,113,113	1.35	8 (10%)
14	CLA	A	837	1	45,53,73	1.85	5 (11%)	52,89,113	1.51	6 (11%)
14	CLA	J	102	-	38,45,73	1.94	6 (15%)	43,78,113	1.49	5 (11%)
14	CLA	B	816	-	55,63,73	1.63	6 (10%)	64,101,113	1.40	7 (10%)
14	CLA	B	821	-	45,53,73	1.81	5 (11%)	52,89,113	1.56	8 (15%)
17	BCR	J	105	-	41,41,41	1.07	2 (4%)	56,56,56	1.25	9 (16%)
14	CLA	B	836	23	45,53,73	1.90	6 (13%)	52,89,113	1.51	6 (11%)
14	CLA	A	819	-	54,62,73	1.68	7 (12%)	62,99,113	1.41	8 (12%)
16	SF4	C	101	3	0,12,12	-	-	-	-	-
18	LMG	B	849	-	55,55,55	0.71	1 (1%)	63,63,63	1.36	7 (11%)
14	CLA	A	828	-	65,73,73	1.53	6 (9%)	76,113,113	1.29	8 (10%)
14	CLA	L	205	-	65,73,73	1.50	5 (7%)	76,113,113	1.38	10 (13%)
14	CLA	A	827	23	65,73,73	1.52	6 (9%)	76,113,113	1.31	8 (10%)
14	CLA	A	825	-	59,67,73	1.58	5 (8%)	68,105,113	1.39	8 (11%)
14	CLA	F	202	23	45,53,73	1.84	5 (11%)	52,89,113	1.45	7 (13%)
14	CLA	B	827	-	65,73,73	1.51	7 (10%)	76,113,113	1.27	8 (10%)
14	CLA	B	837	-	60,68,73	1.58	5 (8%)	70,107,113	1.40	8 (11%)
14	CLA	B	825	23	46,54,73	1.76	5 (10%)	53,90,113	1.51	6 (11%)
17	BCR	L	208	-	41,41,41	1.07	2 (4%)	56,56,56	1.26	7 (12%)
14	CLA	A	814	-	60,68,73	1.57	6 (10%)	70,107,113	1.36	8 (11%)
14	CLA	B	803	-	65,73,73	1.51	5 (7%)	76,113,113	1.31	7 (9%)
15	PQN	A	845	-	34,34,34	2.07	7 (20%)	42,45,45	1.20	6 (14%)
17	BCR	A	852	-	41,41,41	1.10	2 (4%)	56,56,56	1.37	8 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
14	CLA	A	823	-	49,57,73	1.75	5 (10%)	55,93,113	1.53	8 (14%)
14	CLA	K	101	-	42,49,73	1.86	7 (16%)	48,83,113	1.47	6 (12%)
17	BCR	B	848	-	41,41,41	1.09	2 (4%)	56,56,56	1.21	6 (10%)
14	CLA	B	840	23	65,73,73	1.51	5 (7%)	76,113,113	1.33	9 (11%)
17	BCR	A	851	-	41,41,41	1.07	2 (4%)	56,56,56	1.25	6 (10%)
14	CLA	A	841	-	65,73,73	1.51	5 (7%)	76,113,113	1.33	8 (10%)
17	BCR	J	104	-	41,41,41	1.09	2 (4%)	56,56,56	1.30	9 (16%)
17	BCR	B	847	-	41,41,41	1.11	2 (4%)	56,56,56	1.25	8 (14%)
17	BCR	B	845	-	41,41,41	1.08	2 (4%)	56,56,56	1.22	6 (10%)
14	CLA	B	817	-	59,67,73	1.60	5 (8%)	68,105,113	1.37	8 (11%)
14	CLA	A	844	19	52,60,73	1.69	5 (9%)	60,97,113	1.48	9 (15%)
14	CLA	A	808	-	51,59,73	1.76	5 (9%)	59,96,113	1.46	9 (15%)
14	CLA	B	805	-	65,73,73	1.50	5 (7%)	76,113,113	1.32	6 (7%)
14	CLA	B	830	-	45,53,73	1.83	6 (13%)	52,89,113	1.54	7 (13%)
19	LHG	A	855	14	26,26,48	0.83	1 (3%)	29,32,54	1.32	3 (10%)
19	LHG	B	850	-	22,22,48	0.91	2 (9%)	25,28,54	1.19	1 (4%)
17	BCR	A	848	-	41,41,41	1.13	2 (4%)	56,56,56	1.35	7 (12%)
14	CLA	A	857	23	65,73,73	1.51	6 (9%)	76,113,113	1.35	7 (9%)
14	CLA	A	802	23	65,73,73	1.52	6 (9%)	76,113,113	1.34	6 (7%)
14	CLA	L	204	10	65,73,73	1.47	6 (9%)	76,113,113	1.42	8 (10%)
14	CLA	A	809	1	65,73,73	1.51	5 (7%)	76,113,113	1.40	8 (10%)
14	CLA	B	838	-	65,73,73	1.53	6 (9%)	76,113,113	1.33	8 (10%)
14	CLA	F	201	23	51,59,73	1.72	6 (11%)	59,96,113	1.46	9 (15%)
14	CLA	A	820	-	65,73,73	1.52	5 (7%)	76,113,113	1.37	9 (11%)
14	CLA	B	826	-	65,73,73	1.50	5 (7%)	76,113,113	1.33	6 (7%)
14	CLA	A	826	23	65,73,73	1.51	6 (9%)	76,113,113	1.36	7 (9%)
14	CLA	B	813	-	65,73,73	1.49	5 (7%)	76,113,113	1.34	8 (10%)
14	CLA	X	1701	12	45,53,73	1.85	5 (11%)	52,89,113	1.50	8 (15%)
14	CLA	A	829	-	65,73,73	1.52	5 (7%)	76,113,113	1.28	7 (9%)
14	CLA	B	828	-	65,73,73	1.52	6 (9%)	76,113,113	1.29	7 (9%)
14	CLA	B	815	-	45,53,73	1.82	6 (13%)	52,89,113	1.52	7 (13%)
14	CLA	A	818	-	54,62,73	1.64	5 (9%)	62,99,113	1.43	7 (11%)
14	CLA	B	835	23	45,53,73	1.85	5 (11%)	52,89,113	1.50	7 (13%)
17	BCR	A	850	-	41,41,41	1.10	2 (4%)	56,56,56	1.25	7 (12%)
17	BCR	A	847	-	41,41,41	1.10	2 (4%)	56,56,56	1.28	8 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
14	CLA	A	816	-	45,53,73	1.84	5 (11%)	52,89,113	1.54	7 (13%)
19	LHG	M	101	-	48,48,48	0.62	0	51,54,54	1.20	6 (11%)
14	CLA	K	102	-	45,53,73	1.82	5 (11%)	52,89,113	1.56	8 (15%)
14	CLA	A	812	14	65,73,73	1.52	6 (9%)	76,113,113	1.31	7 (9%)
13	CL0	A	801	-	65,73,73	1.50	5 (7%)	76,113,113	1.32	6 (7%)
14	CLA	L	206	23	65,73,73	1.49	5 (7%)	76,113,113	1.51	9 (11%)
14	CLA	A	831	-	65,73,73	1.52	5 (7%)	76,113,113	1.33	8 (10%)
14	CLA	A	832	-	50,58,73	1.72	5 (10%)	58,95,113	1.45	7 (12%)
14	CLA	B	814	-	65,73,73	1.52	6 (9%)	76,113,113	1.30	8 (10%)
14	CLA	B	822	23	55,63,73	1.62	6 (10%)	64,101,113	1.38	7 (10%)
14	CLA	A	822	23	65,73,73	1.51	6 (9%)	76,113,113	1.34	8 (10%)
17	BCR	B	843	-	41,41,41	1.06	2 (4%)	56,56,56	1.24	9 (16%)
14	CLA	B	823	-	45,53,73	1.85	6 (13%)	52,89,113	1.51	6 (11%)
14	CLA	B	806	-	65,73,73	1.54	6 (9%)	76,113,113	1.30	7 (9%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	A	835	-	1/1/20/20	12/37/115/115	-
14	CLA	A	839	-	1/1/20/20	13/37/115/115	-
14	CLA	A	840	-	1/1/15/20	4/16/94/115	-
17	BCR	B	851	-	-	8/29/63/63	0/2/2/2
14	CLA	A	811	-	1/1/15/20	8/13/91/115	-
14	CLA	A	815	-	1/1/15/20	5/13/91/115	-
15	PQN	B	842	-	-	8/23/43/43	0/2/2/2
14	CLA	A	807	-	1/1/20/20	16/37/115/115	-
17	BCR	I	101	-	-	15/29/63/63	0/2/2/2
14	CLA	A	842	-	1/1/20/20	9/37/115/115	-
14	CLA	J	101	8	1/1/15/20	3/13/91/115	-
17	BCR	L	201	-	-	12/29/63/63	0/2/2/2
14	CLA	B	834	-	1/1/15/20	4/13/91/115	-
14	CLA	B	819	23	1/1/20/20	12/37/115/115	-
14	CLA	B	831	-	1/1/16/20	7/18/96/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	B	832	-	1/1/20/20	13/37/115/115	-
17	BCR	I	103	-	-	14/29/63/63	0/2/2/2
14	CLA	M	102	23	1/1/15/20	6/13/91/115	-
18	LMG	A	856	-	-	12/23/43/70	0/1/1/1
14	CLA	B	804	-	1/1/17/20	7/24/102/115	-
14	CLA	A	830	-	1/1/20/20	15/37/115/115	-
14	CLA	B	824	2	1/1/17/20	8/24/102/115	-
17	BCR	J	103	-	-	18/29/63/63	0/2/2/2
14	CLA	B	829	-	1/1/20/20	9/37/115/115	-
14	CLA	A	833	-	1/1/20/20	12/37/115/115	-
14	CLA	B	818	-	1/1/19/20	8/31/109/115	-
21	LMT	L	202	-	-	12/21/61/61	0/2/2/2
14	CLA	B	833	-	1/1/18/20	4/29/107/115	-
14	CLA	B	839	-	1/1/15/20	4/16/94/115	-
19	LHG	A	854	-	-	22/53/53/53	-
16	SF4	A	846	1,2	-	-	0/6/5/5
14	CLA	A	804	-	1/1/20/20	12/37/115/115	-
14	CLA	B	841	-	1/1/20/20	7/37/115/115	-
17	BCR	M	103	-	-	18/29/63/63	0/2/2/2
14	CLA	A	834	-	1/1/20/20	7/37/115/115	-
14	CLA	B	807	-	1/1/20/20	10/37/115/115	-
17	BCR	F	203	-	-	9/29/63/63	0/2/2/2
14	CLA	A	806	-	1/1/20/20	17/37/115/115	-
14	CLA	A	813	-	1/1/17/20	7/24/102/115	-
14	CLA	A	817	23	1/1/16/20	8/18/96/115	-
17	BCR	B	846	-	-	13/29/63/63	0/2/2/2
14	CLA	A	824	-	1/1/17/20	5/21/99/115	-
17	BCR	A	849	-	-	12/29/63/63	0/2/2/2
14	CLA	A	805	14	1/1/18/20	9/30/108/115	-
14	CLA	B	809	2	1/1/20/20	14/37/115/115	-
17	BCR	B	844	-	-	9/29/63/63	0/2/2/2
14	CLA	A	843	23	1/1/20/20	9/37/115/115	-
14	CLA	B	802	-	1/1/20/20	14/37/115/115	-
16	SF4	C	102	3	-	-	0/6/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	B	812	-	1/1/15/20	5/13/91/115	-
18	LMG	I	102	-	-	9/35/55/70	0/1/1/1
18	LMG	A	853	-	-	25/43/63/70	0/1/1/1
14	CLA	B	811	-	1/1/15/20	4/13/91/115	-
14	CLA	B	808	-	1/1/20/20	8/37/115/115	-
14	CLA	A	836	-	1/1/17/20	6/24/102/115	-
14	CLA	B	820	-	1/1/15/20	9/16/94/115	-
14	CLA	A	821	-	1/1/14/20	0/8/86/115	-
14	CLA	B	810	2	1/1/20/20	15/37/115/115	-
14	CLA	A	810	1	1/1/20/20	11/37/115/115	-
22	DGD	L	207	-	-	23/55/95/95	0/2/2/2
14	CLA	A	838	-	1/1/17/20	7/21/99/115	-
14	CLA	A	803	-	1/1/20/20	6/37/115/115	-
14	CLA	A	837	1	1/1/15/20	7/13/91/115	-
14	CLA	J	102	-	1/1/12/20	1/2/76/115	-
14	CLA	B	816	-	1/1/18/20	6/25/103/115	-
14	CLA	B	821	-	1/1/15/20	6/13/91/115	-
17	BCR	J	105	-	-	10/29/63/63	0/2/2/2
14	CLA	B	836	23	1/1/15/20	5/13/91/115	-
14	CLA	A	819	-	1/1/17/20	7/24/102/115	-
18	LMG	B	849	-	-	18/50/70/70	0/1/1/1
16	SF4	C	101	3	-	-	0/6/5/5
14	CLA	A	828	-	1/1/20/20	14/37/115/115	-
14	CLA	L	205	-	1/1/20/20	12/37/115/115	-
14	CLA	A	827	23	1/1/20/20	6/37/115/115	-
14	CLA	A	825	-	1/1/18/20	12/30/108/115	-
14	CLA	F	202	23	1/1/15/20	4/13/91/115	-
14	CLA	B	827	-	1/1/20/20	14/37/115/115	-
14	CLA	B	837	-	1/1/19/20	6/31/109/115	-
14	CLA	B	825	23	1/1/15/20	5/15/93/115	-
17	BCR	L	208	-	-	11/29/63/63	0/2/2/2
14	CLA	A	814	-	1/1/19/20	9/31/109/115	-
14	CLA	B	803	-	1/1/20/20	11/37/115/115	-
15	PQN	A	845	-	-	11/23/43/43	0/2/2/2
17	BCR	A	852	-	-	19/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	A	823	-	1/1/16/20	11/18/96/115	-
14	CLA	K	101	-	1/1/13/20	1/7/81/115	-
17	BCR	B	848	-	-	6/29/63/63	0/2/2/2
14	CLA	B	840	23	1/1/20/20	8/37/115/115	-
17	BCR	A	851	-	-	7/29/63/63	0/2/2/2
14	CLA	A	841	-	1/1/20/20	6/37/115/115	-
17	BCR	J	104	-	-	13/29/63/63	0/2/2/2
17	BCR	B	847	-	-	14/29/63/63	0/2/2/2
17	BCR	B	845	-	-	9/29/63/63	0/2/2/2
14	CLA	B	817	-	1/1/18/20	10/30/108/115	-
14	CLA	A	844	19	1/1/17/20	6/22/100/115	-
14	CLA	A	808	-	1/1/17/20	7/21/99/115	-
14	CLA	B	805	-	1/1/20/20	15/37/115/115	-
14	CLA	B	830	-	1/1/15/20	9/13/91/115	-
19	LHG	A	855	14	-	12/31/31/53	-
19	LHG	B	850	-	-	14/26/26/53	-
17	BCR	A	848	-	-	17/29/63/63	0/2/2/2
14	CLA	A	857	23	1/1/20/20	19/37/115/115	-
14	CLA	A	802	23	1/1/20/20	11/37/115/115	-
14	CLA	L	204	10	1/1/20/20	13/37/115/115	-
14	CLA	A	809	1	1/1/20/20	11/37/115/115	-
14	CLA	B	838	-	1/1/20/20	12/37/115/115	-
14	CLA	F	201	23	1/1/17/20	4/21/99/115	-
14	CLA	A	820	-	1/1/20/20	17/37/115/115	-
14	CLA	B	826	-	1/1/20/20	20/37/115/115	-
14	CLA	A	826	23	1/1/20/20	12/37/115/115	-
14	CLA	B	813	-	1/1/20/20	18/37/115/115	-
14	CLA	X	1701	12	1/1/15/20	6/13/91/115	-
14	CLA	A	829	-	1/1/20/20	13/37/115/115	-
14	CLA	B	828	-	1/1/20/20	18/37/115/115	-
14	CLA	B	815	-	1/1/15/20	7/13/91/115	-
14	CLA	A	818	-	1/1/17/20	4/24/102/115	-
14	CLA	B	835	23	1/1/15/20	6/13/91/115	-
17	BCR	A	850	-	-	11/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
17	BCR	A	847	-	-	11/29/63/63	0/2/2/2
14	CLA	A	816	-	1/1/15/20	7/13/91/115	-
19	LHG	M	101	-	-	26/53/53/53	-
14	CLA	K	102	-	1/1/15/20	6/13/91/115	-
14	CLA	A	812	14	1/1/20/20	7/37/115/115	-
13	CL0	A	801	-	3/3/25/25	17/37/135/135	-
14	CLA	L	206	23	1/1/20/20	8/37/115/115	-
14	CLA	A	831	-	1/1/20/20	10/37/115/115	-
14	CLA	A	832	-	1/1/17/20	8/19/97/115	-
14	CLA	B	814	-	1/1/20/20	13/37/115/115	-
14	CLA	B	822	23	1/1/18/20	8/25/103/115	-
14	CLA	A	822	23	1/1/20/20	14/37/115/115	-
17	BCR	B	843	-	-	7/29/63/63	0/2/2/2
14	CLA	B	823	-	1/1/15/20	6/13/91/115	-
14	CLA	B	806	-	1/1/20/20	8/37/115/115	-

All (605) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	836	CLA	C4B-NB	8.46	1.42	1.35
14	A	843	CLA	C4B-NB	8.12	1.42	1.35
14	B	841	CLA	C4B-NB	8.10	1.42	1.35
14	A	834	CLA	C4B-NB	8.08	1.42	1.35
14	A	808	CLA	C4B-NB	8.06	1.42	1.35
14	A	807	CLA	C4B-NB	8.02	1.42	1.35
14	A	837	CLA	C4B-NB	7.99	1.42	1.35
14	A	836	CLA	C4B-NB	7.96	1.42	1.35
14	B	839	CLA	C4B-NB	7.95	1.42	1.35
14	B	835	CLA	C4B-NB	7.93	1.42	1.35
14	X	1701	CLA	C4B-NB	7.93	1.42	1.35
14	A	815	CLA	C4B-NB	7.91	1.42	1.35
14	B	838	CLA	C4B-NB	7.90	1.42	1.35
14	B	806	CLA	C4B-NB	7.89	1.42	1.35
14	B	812	CLA	C4B-NB	7.83	1.42	1.35
14	A	823	CLA	C4B-NB	7.83	1.42	1.35
14	A	835	CLA	C4B-NB	7.82	1.42	1.35
14	A	804	CLA	C4B-NB	7.82	1.42	1.35
14	A	842	CLA	C4B-NB	7.80	1.42	1.35
14	A	805	CLA	C4B-NB	7.80	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	857	CLA	C4B-NB	7.80	1.42	1.35
14	F	201	CLA	C4B-NB	7.78	1.42	1.35
14	F	202	CLA	C4B-NB	7.78	1.42	1.35
14	A	829	CLA	C4B-NB	7.77	1.42	1.35
14	A	816	CLA	C4B-NB	7.77	1.42	1.35
14	B	814	CLA	C4B-NB	7.76	1.42	1.35
14	A	840	CLA	C4B-NB	7.76	1.42	1.35
14	A	811	CLA	C4B-NB	7.75	1.42	1.35
14	B	828	CLA	C4B-NB	7.75	1.42	1.35
14	B	832	CLA	C4B-NB	7.75	1.42	1.35
14	B	803	CLA	C4B-NB	7.75	1.42	1.35
14	A	802	CLA	C4B-NB	7.74	1.42	1.35
14	A	831	CLA	C4B-NB	7.74	1.42	1.35
14	B	804	CLA	C4B-NB	7.74	1.42	1.35
14	A	827	CLA	C4B-NB	7.74	1.42	1.35
14	J	101	CLA	C4B-NB	7.73	1.42	1.35
14	B	815	CLA	C4B-NB	7.73	1.42	1.35
14	B	823	CLA	C4B-NB	7.72	1.42	1.35
14	A	828	CLA	C4B-NB	7.71	1.42	1.35
14	B	811	CLA	C4B-NB	7.71	1.42	1.35
14	K	102	CLA	C4B-NB	7.71	1.42	1.35
14	M	102	CLA	C4B-NB	7.70	1.42	1.35
14	B	807	CLA	C4B-NB	7.70	1.42	1.35
14	B	820	CLA	C4B-NB	7.69	1.42	1.35
14	A	813	CLA	C4B-NB	7.69	1.42	1.35
14	B	837	CLA	C4B-NB	7.68	1.42	1.35
14	A	814	CLA	C4B-NB	7.67	1.42	1.35
14	B	817	CLA	C4B-NB	7.67	1.42	1.35
14	A	844	CLA	C4B-NB	7.66	1.42	1.35
14	B	830	CLA	C4B-NB	7.66	1.42	1.35
14	A	812	CLA	C4B-NB	7.65	1.42	1.35
14	A	830	CLA	C4B-NB	7.65	1.42	1.35
14	A	822	CLA	C4B-NB	7.64	1.42	1.35
14	A	841	CLA	C4B-NB	7.63	1.42	1.35
14	A	820	CLA	C4B-NB	7.63	1.42	1.35
14	A	810	CLA	C4B-NB	7.63	1.42	1.35
14	B	822	CLA	C4B-NB	7.63	1.42	1.35
14	B	829	CLA	C4B-NB	7.63	1.42	1.35
14	B	805	CLA	C4B-NB	7.62	1.42	1.35
14	A	821	CLA	C4B-NB	7.61	1.42	1.35
14	A	838	CLA	C4B-NB	7.61	1.42	1.35
14	L	206	CLA	C4B-NB	7.60	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	821	CLA	C4B-NB	7.60	1.42	1.35
14	A	806	CLA	C4B-NB	7.59	1.42	1.35
14	A	817	CLA	C4B-NB	7.58	1.42	1.35
14	A	825	CLA	C4B-NB	7.57	1.42	1.35
14	B	816	CLA	C4B-NB	7.57	1.42	1.35
14	K	101	CLA	C4B-NB	7.57	1.42	1.35
14	B	840	CLA	C4B-NB	7.56	1.42	1.35
14	L	205	CLA	C4B-NB	7.56	1.41	1.35
14	B	831	CLA	C4B-NB	7.55	1.41	1.35
14	B	827	CLA	C4B-NB	7.55	1.41	1.35
14	B	833	CLA	C4B-NB	7.55	1.41	1.35
14	A	826	CLA	C4B-NB	7.55	1.41	1.35
14	A	809	CLA	C4B-NB	7.54	1.41	1.35
14	B	825	CLA	C4B-NB	7.54	1.41	1.35
14	J	102	CLA	C4B-NB	7.53	1.41	1.35
14	A	832	CLA	C4B-NB	7.53	1.41	1.35
14	B	834	CLA	C4B-NB	7.52	1.41	1.35
14	A	819	CLA	C4B-NB	7.52	1.41	1.35
14	A	824	CLA	C4B-NB	7.51	1.41	1.35
14	B	826	CLA	C4B-NB	7.51	1.41	1.35
14	B	824	CLA	C4B-NB	7.49	1.41	1.35
14	A	818	CLA	C4B-NB	7.48	1.41	1.35
14	A	833	CLA	C4B-NB	7.48	1.41	1.35
14	B	813	CLA	C4B-NB	7.47	1.41	1.35
14	B	818	CLA	C4B-NB	7.45	1.41	1.35
13	A	801	CL0	C4B-NB	7.42	1.41	1.35
14	A	803	CLA	C4B-NB	7.42	1.41	1.35
14	B	808	CLA	C4B-NB	7.40	1.41	1.35
14	B	810	CLA	C4B-NB	7.40	1.41	1.35
14	B	802	CLA	C4B-NB	7.36	1.41	1.35
14	A	839	CLA	C4B-NB	7.31	1.41	1.35
14	B	809	CLA	C4B-NB	7.28	1.41	1.35
14	B	819	CLA	C4B-NB	7.26	1.41	1.35
14	L	204	CLA	C4B-NB	7.17	1.41	1.35
15	A	845	PQN	O1-C1	5.92	1.35	1.23
15	B	842	PQN	O4-C4	5.88	1.35	1.23
15	B	842	PQN	O1-C1	5.88	1.35	1.23
15	A	845	PQN	O4-C4	5.87	1.35	1.23
15	A	845	PQN	C10-C1	-4.87	1.38	1.48
15	B	842	PQN	C10-C1	-4.67	1.39	1.48
14	B	827	CLA	C1D-ND	4.29	1.43	1.37
14	B	817	CLA	C1D-ND	4.26	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	811	CLA	C1D-ND	4.22	1.43	1.37
14	A	819	CLA	C1D-ND	4.19	1.42	1.37
14	A	835	CLA	C1D-ND	4.16	1.42	1.37
14	A	829	CLA	C1D-ND	4.14	1.42	1.37
14	B	836	CLA	C1D-ND	4.07	1.42	1.37
14	B	807	CLA	C1D-ND	4.07	1.42	1.37
14	B	808	CLA	C1D-ND	4.07	1.42	1.37
14	B	823	CLA	C1D-ND	4.07	1.42	1.37
14	A	836	CLA	C1D-ND	4.06	1.42	1.37
14	B	802	CLA	C1D-ND	4.04	1.42	1.37
14	F	202	CLA	C1D-ND	4.03	1.42	1.37
14	A	840	CLA	C1D-ND	4.03	1.42	1.37
14	B	826	CLA	C1D-ND	4.02	1.42	1.37
14	B	838	CLA	C1D-ND	4.02	1.42	1.37
14	A	816	CLA	C1D-ND	4.02	1.42	1.37
14	A	828	CLA	C1D-ND	4.00	1.42	1.37
14	A	824	CLA	C1D-ND	4.00	1.42	1.37
14	B	806	CLA	C1D-ND	3.99	1.42	1.37
14	B	825	CLA	C1D-ND	3.99	1.42	1.37
14	A	806	CLA	C1D-ND	3.99	1.42	1.37
14	A	809	CLA	C1D-ND	3.99	1.42	1.37
13	A	801	CL0	C1D-ND	3.98	1.42	1.37
14	A	838	CLA	C1D-ND	3.98	1.42	1.37
14	B	839	CLA	C1D-ND	3.98	1.42	1.37
14	B	813	CLA	C1D-ND	3.98	1.42	1.37
14	B	834	CLA	C1D-ND	3.97	1.42	1.37
14	B	810	CLA	C1D-ND	3.97	1.42	1.37
14	A	837	CLA	C1D-ND	3.97	1.42	1.37
14	A	825	CLA	C1D-ND	3.96	1.42	1.37
14	A	811	CLA	C1D-ND	3.95	1.42	1.37
14	A	843	CLA	C1D-ND	3.95	1.42	1.37
14	A	827	CLA	C1D-ND	3.95	1.42	1.37
14	A	839	CLA	C1D-ND	3.95	1.42	1.37
14	B	835	CLA	C1D-ND	3.95	1.42	1.37
14	K	102	CLA	C1D-ND	3.94	1.42	1.37
14	A	807	CLA	C1D-ND	3.94	1.42	1.37
14	B	841	CLA	C1D-ND	3.94	1.42	1.37
14	B	837	CLA	C1D-ND	3.94	1.42	1.37
14	A	818	CLA	C1D-ND	3.94	1.42	1.37
14	B	812	CLA	C1D-ND	3.94	1.42	1.37
14	B	805	CLA	C1D-ND	3.94	1.42	1.37
14	J	102	CLA	C1D-ND	3.94	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	828	CLA	C1D-ND	3.93	1.42	1.37
14	A	808	CLA	C1D-ND	3.93	1.42	1.37
14	B	818	CLA	C1D-ND	3.93	1.42	1.37
14	A	810	CLA	C1D-ND	3.93	1.42	1.37
14	B	821	CLA	C1D-ND	3.93	1.42	1.37
14	B	816	CLA	C1D-ND	3.93	1.42	1.37
14	L	206	CLA	C1D-ND	3.92	1.42	1.37
14	B	831	CLA	C1D-ND	3.91	1.42	1.37
14	A	823	CLA	C1D-ND	3.90	1.42	1.37
14	F	201	CLA	C1D-ND	3.90	1.42	1.37
14	A	826	CLA	C1D-ND	3.90	1.42	1.37
14	B	832	CLA	C1D-ND	3.90	1.42	1.37
14	A	832	CLA	C1D-ND	3.89	1.42	1.37
14	B	820	CLA	C1D-ND	3.89	1.42	1.37
14	B	840	CLA	C1D-ND	3.89	1.42	1.37
14	B	815	CLA	C1D-ND	3.89	1.42	1.37
14	B	804	CLA	C1D-ND	3.89	1.42	1.37
14	A	817	CLA	C1D-ND	3.88	1.42	1.37
14	A	805	CLA	C1D-ND	3.88	1.42	1.37
14	B	824	CLA	C1D-ND	3.88	1.42	1.37
14	B	803	CLA	C1D-ND	3.88	1.42	1.37
14	A	822	CLA	C1D-ND	3.86	1.42	1.37
14	A	814	CLA	C1D-ND	3.86	1.42	1.37
14	A	821	CLA	C1D-ND	3.86	1.42	1.37
14	A	804	CLA	C1D-ND	3.85	1.42	1.37
14	A	830	CLA	C1D-ND	3.85	1.42	1.37
14	A	815	CLA	C1D-ND	3.85	1.42	1.37
14	A	844	CLA	C1D-ND	3.85	1.42	1.37
14	J	101	CLA	C1D-ND	3.84	1.42	1.37
14	A	841	CLA	C1D-ND	3.84	1.42	1.37
14	B	830	CLA	C1D-ND	3.84	1.42	1.37
14	X	1701	CLA	C1D-ND	3.83	1.42	1.37
14	A	842	CLA	C1D-ND	3.82	1.42	1.37
14	A	820	CLA	C1D-ND	3.82	1.42	1.37
14	K	101	CLA	C1D-ND	3.82	1.42	1.37
14	A	834	CLA	C1D-ND	3.82	1.42	1.37
14	B	814	CLA	C1D-ND	3.81	1.42	1.37
14	A	812	CLA	C1D-ND	3.81	1.42	1.37
14	A	833	CLA	C1D-ND	3.80	1.42	1.37
15	B	842	PQN	C5-C4	-3.80	1.40	1.48
14	L	204	CLA	C1D-ND	3.79	1.42	1.37
14	A	813	CLA	C1D-ND	3.79	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	819	CLA	C1D-ND	3.78	1.42	1.37
14	A	831	CLA	C1D-ND	3.78	1.42	1.37
14	B	822	CLA	C1D-ND	3.78	1.42	1.37
15	A	845	PQN	C5-C4	-3.77	1.41	1.48
14	A	857	CLA	C1D-ND	3.73	1.42	1.37
14	L	205	CLA	C1D-ND	3.72	1.42	1.37
14	A	802	CLA	C1D-ND	3.71	1.42	1.37
14	A	803	CLA	C1D-ND	3.71	1.42	1.37
14	B	829	CLA	C1D-ND	3.71	1.42	1.37
14	B	809	CLA	C1D-ND	3.68	1.42	1.37
17	J	103	BCR	C1-C6	-3.67	1.48	1.53
15	B	842	PQN	C2-C1	-3.67	1.40	1.48
14	B	833	CLA	C1D-ND	3.64	1.42	1.37
17	I	103	BCR	C1-C6	-3.63	1.48	1.53
14	M	102	CLA	C1D-ND	3.61	1.42	1.37
17	B	845	BCR	C1-C6	-3.61	1.48	1.53
17	B	851	BCR	C1-C6	-3.58	1.48	1.53
17	A	848	BCR	C1-C6	-3.55	1.48	1.53
17	L	201	BCR	C1-C6	-3.50	1.49	1.53
17	B	847	BCR	C1-C6	-3.48	1.49	1.53
17	M	103	BCR	C1-C6	-3.46	1.49	1.53
14	A	803	CLA	CHC-C1C	3.41	1.43	1.35
17	A	850	BCR	C1-C6	-3.40	1.49	1.53
15	A	845	PQN	C2-C1	-3.39	1.40	1.48
14	B	803	CLA	CHC-C1C	3.38	1.43	1.35
14	A	808	CLA	CHC-C1C	3.37	1.43	1.35
17	A	849	BCR	C1-C6	-3.37	1.49	1.53
14	A	834	CLA	CHC-C1C	3.35	1.43	1.35
17	J	104	BCR	C1-C6	-3.35	1.49	1.53
17	B	848	BCR	C30-C25	-3.34	1.49	1.53
17	I	101	BCR	C30-C25	-3.33	1.49	1.53
14	A	819	CLA	CHC-C1C	3.30	1.43	1.35
17	A	847	BCR	C1-C6	-3.28	1.49	1.53
17	L	208	BCR	C1-C6	-3.28	1.49	1.53
14	A	807	CLA	CHC-C1C	3.28	1.43	1.35
14	A	828	CLA	CHC-C1C	3.28	1.43	1.35
14	A	809	CLA	CHC-C1C	3.27	1.43	1.35
17	L	201	BCR	C30-C25	-3.27	1.49	1.53
14	J	101	CLA	CHC-C1C	3.26	1.43	1.35
14	B	812	CLA	CHC-C1C	3.26	1.43	1.35
14	B	837	CLA	CHC-C1C	3.26	1.43	1.35
14	A	815	CLA	CHC-C1C	3.26	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	824	CLA	CHC-C1C	3.26	1.43	1.35
17	I	101	BCR	C1-C6	-3.26	1.49	1.53
14	B	816	CLA	CHC-C1C	3.26	1.43	1.35
14	B	830	CLA	CHC-C1C	3.25	1.43	1.35
14	A	826	CLA	CHC-C1C	3.25	1.43	1.35
14	A	804	CLA	CHC-C1C	3.25	1.43	1.35
14	B	814	CLA	CHC-C1C	3.24	1.43	1.35
14	L	205	CLA	CHC-C1C	3.24	1.43	1.35
14	A	857	CLA	CHC-C1C	3.24	1.43	1.35
14	B	819	CLA	CHC-C1C	3.24	1.43	1.35
14	A	835	CLA	CHC-C1C	3.23	1.43	1.35
14	A	822	CLA	CHC-C1C	3.23	1.43	1.35
14	A	827	CLA	CHC-C1C	3.23	1.43	1.35
14	L	206	CLA	CHC-C1C	3.23	1.43	1.35
14	A	823	CLA	CHC-C1C	3.23	1.43	1.35
17	B	847	BCR	C30-C25	-3.23	1.49	1.53
14	B	838	CLA	CHC-C1C	3.23	1.43	1.35
14	B	831	CLA	CHC-C1C	3.23	1.43	1.35
14	A	820	CLA	CHC-C1C	3.22	1.43	1.35
14	B	823	CLA	CHC-C1C	3.22	1.43	1.35
14	F	201	CLA	CHC-C1C	3.21	1.43	1.35
14	B	827	CLA	CHC-C1C	3.21	1.43	1.35
14	F	202	CLA	CHC-C1C	3.21	1.43	1.35
14	B	833	CLA	CHC-C1C	3.21	1.43	1.35
14	A	842	CLA	CHC-C1C	3.21	1.43	1.35
14	B	820	CLA	CHC-C1C	3.20	1.43	1.35
14	K	101	CLA	CHC-C1C	3.20	1.43	1.35
17	B	851	BCR	C30-C25	-3.20	1.49	1.53
14	B	817	CLA	CHC-C1C	3.20	1.43	1.35
14	A	824	CLA	CHC-C1C	3.19	1.43	1.35
14	A	825	CLA	CHC-C1C	3.19	1.43	1.35
14	A	829	CLA	CHC-C1C	3.19	1.43	1.35
14	A	830	CLA	CHC-C1C	3.19	1.43	1.35
14	B	834	CLA	CHC-C1C	3.19	1.43	1.35
14	B	828	CLA	CHC-C1C	3.19	1.43	1.35
14	B	835	CLA	CHC-C1C	3.19	1.43	1.35
17	A	852	BCR	C1-C6	-3.18	1.49	1.53
14	A	821	CLA	CHC-C1C	3.18	1.43	1.35
17	B	843	BCR	C1-C6	-3.18	1.49	1.53
14	A	805	CLA	CHC-C1C	3.18	1.43	1.35
15	A	845	PQN	C3-C2	3.18	1.41	1.35
14	A	806	CLA	CHC-C1C	3.18	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	837	CLA	CHC-C1C	3.17	1.43	1.35
14	B	832	CLA	CHC-C1C	3.17	1.43	1.35
14	B	840	CLA	CHC-C1C	3.17	1.43	1.35
14	B	806	CLA	CHC-C1C	3.17	1.43	1.35
14	A	844	CLA	CHC-C1C	3.17	1.43	1.35
14	B	826	CLA	CHC-C1C	3.16	1.43	1.35
14	K	102	CLA	CHC-C1C	3.16	1.43	1.35
14	B	813	CLA	CHC-C1C	3.16	1.43	1.35
14	A	833	CLA	CHC-C1C	3.16	1.43	1.35
14	B	839	CLA	CHC-C1C	3.16	1.43	1.35
14	A	811	CLA	CHC-C1C	3.15	1.43	1.35
14	B	818	CLA	CHC-C1C	3.15	1.43	1.35
14	A	816	CLA	CHC-C1C	3.14	1.43	1.35
14	A	818	CLA	CHC-C1C	3.14	1.43	1.35
14	A	814	CLA	CHC-C1C	3.14	1.43	1.35
14	A	841	CLA	CHC-C1C	3.14	1.43	1.35
14	J	102	CLA	CHC-C1C	3.14	1.43	1.35
15	B	842	PQN	C3-C2	3.14	1.40	1.35
14	B	836	CLA	CHC-C1C	3.13	1.43	1.35
14	B	822	CLA	CHC-C1C	3.13	1.43	1.35
14	B	802	CLA	CHC-C1C	3.13	1.43	1.35
14	B	804	CLA	CHC-C1C	3.12	1.43	1.35
14	A	802	CLA	CHC-C1C	3.12	1.43	1.35
14	A	817	CLA	CHC-C1C	3.12	1.43	1.35
14	A	813	CLA	CHC-C1C	3.11	1.43	1.35
17	J	105	BCR	C30-C25	-3.11	1.49	1.53
14	A	839	CLA	CHC-C1C	3.11	1.42	1.35
14	B	808	CLA	CHC-C1C	3.11	1.42	1.35
17	F	203	BCR	C30-C25	-3.11	1.49	1.53
14	B	815	CLA	CHC-C1C	3.10	1.42	1.35
14	A	812	CLA	CHC-C1C	3.10	1.42	1.35
14	A	838	CLA	CHC-C1C	3.09	1.42	1.35
17	A	849	BCR	C30-C25	-3.09	1.49	1.53
13	A	801	CL0	CHC-C1C	3.08	1.42	1.35
17	B	848	BCR	C1-C6	-3.08	1.49	1.53
14	M	102	CLA	CHC-C1C	3.08	1.42	1.35
14	B	811	CLA	CHC-C1C	3.08	1.42	1.35
17	B	844	BCR	C1-C6	-3.08	1.49	1.53
17	A	851	BCR	C30-C25	-3.08	1.49	1.53
14	B	805	CLA	CHC-C1C	3.08	1.42	1.35
14	B	829	CLA	CHC-C1C	3.08	1.42	1.35
14	A	836	CLA	CHC-C1C	3.07	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	810	CLA	CHC-C1C	3.07	1.42	1.35
14	B	825	CLA	CHC-C1C	3.07	1.42	1.35
14	X	1701	CLA	CHC-C1C	3.07	1.42	1.35
17	J	103	BCR	C30-C25	-3.06	1.49	1.53
17	I	103	BCR	C30-C25	-3.06	1.49	1.53
14	A	832	CLA	CHC-C1C	3.06	1.42	1.35
14	B	821	CLA	CHC-C1C	3.06	1.42	1.35
14	A	840	CLA	CHC-C1C	3.04	1.42	1.35
17	A	848	BCR	C30-C25	-3.04	1.49	1.53
17	A	851	BCR	C1-C6	-3.04	1.49	1.53
17	A	847	BCR	C30-C25	-3.03	1.49	1.53
14	B	807	CLA	CHC-C1C	3.03	1.42	1.35
17	B	846	BCR	C1-C6	-3.03	1.49	1.53
17	B	844	BCR	C30-C25	-3.03	1.49	1.53
14	A	843	CLA	CHC-C1C	3.03	1.42	1.35
14	A	831	CLA	CHC-C1C	3.03	1.42	1.35
14	B	810	CLA	CHC-C1C	3.03	1.42	1.35
14	L	204	CLA	CHC-C1C	3.02	1.42	1.35
17	A	850	BCR	C30-C25	-3.02	1.49	1.53
14	B	819	CLA	C4D-ND	-3.01	1.33	1.37
14	B	809	CLA	CHC-C1C	3.01	1.42	1.35
17	F	203	BCR	C1-C6	-3.00	1.49	1.53
14	B	841	CLA	C4D-ND	-3.00	1.33	1.37
14	X	1701	CLA	C4D-ND	-3.00	1.33	1.37
18	A	856	LMG	O7-C8	-3.00	1.41	1.47
17	J	105	BCR	C1-C6	-2.99	1.49	1.53
14	B	839	CLA	C4D-ND	-2.99	1.33	1.37
14	A	843	CLA	C4D-ND	-2.98	1.33	1.37
17	M	103	BCR	C30-C25	-2.96	1.49	1.53
14	B	841	CLA	CHC-C1C	2.95	1.42	1.35
15	B	842	PQN	C3-C4	-2.95	1.39	1.47
14	B	804	CLA	C4D-ND	-2.95	1.33	1.37
14	F	201	CLA	C4D-ND	-2.94	1.33	1.37
14	B	822	CLA	C4D-ND	-2.93	1.33	1.37
14	B	805	CLA	C4D-ND	-2.93	1.33	1.37
17	A	852	BCR	C30-C25	-2.93	1.49	1.53
15	A	845	PQN	C3-C4	-2.93	1.39	1.47
14	A	833	CLA	C4D-ND	-2.93	1.33	1.37
14	B	810	CLA	C4D-ND	-2.92	1.33	1.37
14	F	202	CLA	C4D-ND	-2.92	1.33	1.37
14	L	205	CLA	C4D-ND	-2.91	1.33	1.37
14	B	828	CLA	C4D-ND	-2.91	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	841	CLA	C4D-ND	-2.91	1.33	1.37
14	A	803	CLA	C4D-ND	-2.91	1.33	1.37
14	A	822	CLA	C4D-ND	-2.91	1.33	1.37
17	J	104	BCR	C30-C25	-2.91	1.49	1.53
14	B	823	CLA	C4D-ND	-2.89	1.33	1.37
14	B	807	CLA	C4D-ND	-2.89	1.33	1.37
14	A	819	CLA	C4D-ND	-2.89	1.33	1.37
14	A	832	CLA	C4D-ND	-2.89	1.33	1.37
14	A	820	CLA	C4D-ND	-2.89	1.33	1.37
14	A	812	CLA	C4D-ND	-2.89	1.33	1.37
14	A	831	CLA	C4D-ND	-2.89	1.33	1.37
14	A	839	CLA	C4D-ND	-2.89	1.33	1.37
14	K	102	CLA	C4D-ND	-2.88	1.33	1.37
18	I	102	LMG	C4-C5	2.88	1.59	1.53
14	A	804	CLA	C4D-ND	-2.88	1.33	1.37
14	B	840	CLA	C4D-ND	-2.87	1.33	1.37
14	A	840	CLA	C4D-ND	-2.87	1.33	1.37
14	A	817	CLA	C4D-ND	-2.87	1.33	1.37
14	B	829	CLA	C4D-ND	-2.87	1.33	1.37
14	B	809	CLA	CMB-C2B	-2.87	1.45	1.51
14	A	821	CLA	C4D-ND	-2.87	1.33	1.37
14	L	204	CLA	C4D-ND	-2.86	1.33	1.37
14	B	812	CLA	C4D-ND	-2.86	1.33	1.37
14	B	817	CLA	C4D-ND	-2.86	1.33	1.37
14	A	802	CLA	C4D-ND	-2.86	1.33	1.37
14	A	834	CLA	C4D-ND	-2.86	1.33	1.37
14	B	830	CLA	C4D-ND	-2.86	1.33	1.37
17	B	845	BCR	C30-C25	-2.85	1.49	1.53
14	A	813	CLA	C4D-ND	-2.85	1.33	1.37
14	A	837	CLA	C4D-ND	-2.85	1.33	1.37
14	A	857	CLA	C4D-ND	-2.85	1.33	1.37
14	B	818	CLA	C4D-ND	-2.85	1.33	1.37
14	B	832	CLA	C4D-ND	-2.85	1.33	1.37
17	B	843	BCR	C30-C25	-2.85	1.49	1.53
14	A	825	CLA	C4D-ND	-2.84	1.33	1.37
14	B	813	CLA	C4D-ND	-2.84	1.33	1.37
14	A	827	CLA	C4D-ND	-2.83	1.33	1.37
14	A	844	CLA	C4D-ND	-2.83	1.33	1.37
14	A	842	CLA	C4D-ND	-2.83	1.33	1.37
14	B	808	CLA	C4D-ND	-2.82	1.33	1.37
14	K	101	CLA	C4D-ND	-2.81	1.33	1.37
14	A	811	CLA	C4D-ND	-2.81	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	815	CLA	C4D-ND	-2.81	1.33	1.37
14	A	823	CLA	C4D-ND	-2.81	1.33	1.37
14	A	810	CLA	C4D-ND	-2.80	1.33	1.37
14	B	806	CLA	C4D-ND	-2.80	1.33	1.37
14	A	814	CLA	C4D-ND	-2.80	1.33	1.37
14	A	824	CLA	C4D-ND	-2.80	1.33	1.37
14	A	826	CLA	C4D-ND	-2.78	1.33	1.37
14	B	827	CLA	C4D-ND	-2.78	1.33	1.37
14	A	829	CLA	C4D-ND	-2.78	1.33	1.37
14	B	831	CLA	C4D-ND	-2.77	1.33	1.37
14	B	811	CLA	C4D-ND	-2.77	1.33	1.37
14	A	805	CLA	C4D-ND	-2.77	1.33	1.37
14	A	836	CLA	C4D-ND	-2.76	1.33	1.37
14	B	821	CLA	C4D-ND	-2.75	1.33	1.37
14	B	824	CLA	C4D-ND	-2.75	1.33	1.37
14	A	809	CLA	C4D-ND	-2.75	1.33	1.37
14	B	826	CLA	C4D-ND	-2.75	1.33	1.37
14	B	833	CLA	C4D-ND	-2.75	1.33	1.37
14	B	820	CLA	C4D-ND	-2.75	1.33	1.37
14	B	837	CLA	C4D-ND	-2.75	1.33	1.37
14	J	101	CLA	C4D-ND	-2.75	1.33	1.37
14	J	102	CLA	C4D-ND	-2.74	1.33	1.37
14	A	807	CLA	C4D-ND	-2.74	1.33	1.37
14	B	835	CLA	C4D-ND	-2.74	1.33	1.37
14	A	808	CLA	C4D-ND	-2.74	1.33	1.37
14	A	828	CLA	C4D-ND	-2.74	1.33	1.37
14	B	802	CLA	C4D-ND	-2.73	1.33	1.37
14	B	809	CLA	C4D-ND	-2.73	1.33	1.37
14	B	816	CLA	C4D-ND	-2.72	1.34	1.37
14	A	831	CLA	CMB-C2B	-2.71	1.46	1.51
14	A	806	CLA	C4D-ND	-2.70	1.34	1.37
14	B	836	CLA	C4D-ND	-2.70	1.34	1.37
17	B	846	BCR	C30-C25	-2.69	1.50	1.53
14	A	818	CLA	C4D-ND	-2.69	1.34	1.37
14	A	810	CLA	CMB-C2B	-2.69	1.46	1.51
14	B	834	CLA	C4D-ND	-2.69	1.34	1.37
13	A	801	CL0	C4D-ND	-2.69	1.34	1.37
14	B	814	CLA	C4D-ND	-2.69	1.34	1.37
14	L	206	CLA	C4D-ND	-2.68	1.34	1.37
14	A	830	CLA	C4D-ND	-2.67	1.34	1.37
17	L	208	BCR	C30-C25	-2.66	1.50	1.53
14	A	835	CLA	C4D-ND	-2.65	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	838	CLA	C4D-ND	-2.64	1.34	1.37
14	B	825	CLA	C4D-ND	-2.63	1.34	1.37
14	B	838	CLA	C4D-ND	-2.63	1.34	1.37
14	B	803	CLA	C4D-ND	-2.62	1.34	1.37
14	B	815	CLA	C4D-ND	-2.62	1.34	1.37
14	M	102	CLA	C4D-ND	-2.62	1.34	1.37
14	B	841	CLA	CMB-C2B	-2.60	1.46	1.51
14	A	816	CLA	C4D-ND	-2.60	1.34	1.37
14	M	102	CLA	CMB-C2B	-2.59	1.46	1.51
14	B	812	CLA	CMB-C2B	-2.58	1.46	1.51
14	B	821	CLA	CMB-C2B	-2.58	1.46	1.51
14	A	832	CLA	CMB-C2B	-2.58	1.46	1.51
14	B	829	CLA	CMB-C2B	-2.57	1.46	1.51
14	B	830	CLA	CMB-C2B	-2.57	1.46	1.51
13	A	801	CL0	CMB-C2B	-2.56	1.46	1.51
21	L	202	LMT	O3'-C3'	-2.53	1.37	1.43
14	A	819	CLA	CMB-C2B	-2.50	1.46	1.51
14	B	811	CLA	CMB-C2B	-2.49	1.46	1.51
14	B	840	CLA	CMB-C2B	-2.48	1.46	1.51
14	A	808	CLA	CMB-C2B	-2.48	1.46	1.51
14	B	807	CLA	CMB-C2B	-2.47	1.46	1.51
14	A	803	CLA	CMB-C2B	-2.47	1.46	1.51
14	B	835	CLA	CMB-C2B	-2.46	1.46	1.51
14	A	843	CLA	CMB-C2B	-2.45	1.46	1.51
14	A	817	CLA	CMB-C2B	-2.44	1.46	1.51
14	A	809	CLA	CMB-C2B	-2.43	1.46	1.51
14	B	834	CLA	CMB-C2B	-2.43	1.46	1.51
14	L	204	CLA	CMB-C2B	-2.43	1.46	1.51
14	B	836	CLA	CMB-C2B	-2.42	1.46	1.51
14	A	838	CLA	CMB-C2B	-2.42	1.46	1.51
14	M	102	CLA	CMD-C2D	-2.42	1.45	1.50
22	L	207	DGD	O2G-C2G	-2.41	1.40	1.46
14	B	823	CLA	CMB-C2B	-2.41	1.46	1.51
14	B	824	CLA	CMB-C2B	-2.40	1.46	1.51
14	L	205	CLA	CMB-C2B	-2.40	1.46	1.51
14	A	820	CLA	CMB-C2B	-2.40	1.46	1.51
14	B	819	CLA	CMB-C2B	-2.40	1.46	1.51
14	A	826	CLA	CMB-C2B	-2.39	1.46	1.51
14	B	839	CLA	CMB-C2B	-2.39	1.46	1.51
14	A	836	CLA	CMB-C2B	-2.39	1.46	1.51
14	B	837	CLA	CMB-C2B	-2.39	1.46	1.51
14	A	837	CLA	CMB-C2B	-2.38	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	807	CLA	CMB-C2B	-2.38	1.46	1.51
14	B	814	CLA	CMB-C2B	-2.38	1.46	1.51
14	B	838	CLA	CMB-C2B	-2.38	1.46	1.51
14	B	820	CLA	CMB-C2B	-2.38	1.46	1.51
14	A	830	CLA	CMB-C2B	-2.38	1.46	1.51
14	B	816	CLA	CMB-C2B	-2.37	1.46	1.51
14	K	101	CLA	CMB-C2B	-2.37	1.46	1.51
14	B	806	CLA	CMB-C2B	-2.37	1.46	1.51
14	B	803	CLA	CMB-C2B	-2.37	1.46	1.51
14	B	818	CLA	CMB-C2B	-2.37	1.46	1.51
14	A	822	CLA	CMB-C2B	-2.36	1.46	1.51
14	B	831	CLA	CMB-C2B	-2.36	1.46	1.51
14	A	821	CLA	CMB-C2B	-2.36	1.46	1.51
14	B	833	CLA	CMB-C2B	-2.36	1.46	1.51
14	F	202	CLA	CMB-C2B	-2.36	1.46	1.51
14	A	842	CLA	CMB-C2B	-2.36	1.46	1.51
14	A	804	CLA	CMB-C2B	-2.35	1.46	1.51
14	A	840	CLA	CMB-C2B	-2.35	1.46	1.51
14	A	825	CLA	CMB-C2B	-2.35	1.46	1.51
14	F	201	CLA	CMB-C2B	-2.35	1.46	1.51
14	A	813	CLA	CMB-C2B	-2.35	1.46	1.51
14	A	811	CLA	CMB-C2B	-2.35	1.46	1.51
14	A	828	CLA	CMB-C2B	-2.35	1.46	1.51
14	J	102	CLA	CMB-C2B	-2.35	1.46	1.51
14	B	826	CLA	CMB-C2B	-2.34	1.46	1.51
14	A	818	CLA	CMB-C2B	-2.34	1.46	1.51
14	A	823	CLA	CMB-C2B	-2.34	1.46	1.51
14	B	810	CLA	CMB-C2B	-2.34	1.46	1.51
14	A	839	CLA	CMB-C2B	-2.33	1.46	1.51
14	B	815	CLA	CMB-C2B	-2.32	1.46	1.51
14	A	816	CLA	CMB-C2B	-2.32	1.46	1.51
14	J	101	CLA	CMB-C2B	-2.32	1.46	1.51
14	A	844	CLA	CMB-C2B	-2.32	1.46	1.51
14	A	833	CLA	CMB-C2B	-2.32	1.46	1.51
14	A	812	CLA	CMB-C2B	-2.32	1.46	1.51
14	A	815	CLA	CMB-C2B	-2.32	1.46	1.51
14	A	835	CLA	CMB-C2B	-2.32	1.46	1.51
14	B	808	CLA	CMB-C2B	-2.32	1.46	1.51
14	B	802	CLA	CMB-C2B	-2.31	1.46	1.51
14	K	102	CLA	CMB-C2B	-2.31	1.46	1.51
14	B	817	CLA	CMB-C2B	-2.31	1.46	1.51
14	B	805	CLA	CMB-C2B	-2.30	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	806	CLA	CMB-C2B	-2.29	1.46	1.51
14	A	834	CLA	CMB-C2B	-2.28	1.46	1.51
14	A	857	CLA	CMB-C2B	-2.28	1.46	1.51
14	B	813	CLA	CMB-C2B	-2.28	1.46	1.51
14	A	841	CLA	CMB-C2B	-2.28	1.46	1.51
14	A	805	CLA	CMB-C2B	-2.28	1.46	1.51
14	B	804	CLA	CMB-C2B	-2.28	1.46	1.51
21	L	202	LMT	O2B-C2B	-2.27	1.37	1.43
14	A	814	CLA	CMB-C2B	-2.27	1.46	1.51
14	B	832	CLA	CMB-C2B	-2.26	1.46	1.51
14	X	1701	CLA	CMB-C2B	-2.26	1.46	1.51
14	B	828	CLA	CMB-C2B	-2.26	1.46	1.51
14	B	825	CLA	CMB-C2B	-2.25	1.47	1.51
14	A	824	CLA	CMB-C2B	-2.25	1.47	1.51
14	L	206	CLA	CMB-C2B	-2.24	1.47	1.51
21	L	202	LMT	O3B-C3B	-2.22	1.37	1.43
14	B	822	CLA	CMB-C2B	-2.22	1.47	1.51
14	J	102	CLA	CBD-CAD	2.22	1.56	1.51
14	A	827	CLA	CMB-C2B	-2.21	1.47	1.51
19	A	855	LHG	P-O6	2.21	1.68	1.59
19	B	850	LHG	P-O6	2.20	1.68	1.59
14	A	829	CLA	CMB-C2B	-2.19	1.47	1.51
14	A	802	CLA	CMB-C2B	-2.19	1.47	1.51
14	B	828	CLA	CMD-C2D	-2.19	1.46	1.50
14	B	833	CLA	CMD-C2D	-2.19	1.46	1.50
14	B	827	CLA	CMB-C2B	-2.18	1.47	1.51
14	K	101	CLA	CBD-CAD	2.16	1.56	1.51
18	B	849	LMG	O7-C8	-2.15	1.41	1.46
14	A	813	CLA	CMD-C2D	-2.15	1.46	1.50
14	A	802	CLA	CMD-C2D	-2.13	1.46	1.50
14	A	805	CLA	CMD-C2D	-2.12	1.46	1.50
14	A	830	CLA	CMD-C2D	-2.10	1.46	1.50
14	A	857	CLA	CMD-C2D	-2.10	1.46	1.50
14	A	842	CLA	CMC-C2C	-2.09	1.46	1.50
14	A	835	CLA	C1B-NB	2.09	1.37	1.35
14	B	829	CLA	CMD-C2D	-2.09	1.46	1.50
22	L	207	DGD	O5D-C6D	-2.09	1.39	1.43
14	A	814	CLA	CMD-C2D	-2.09	1.46	1.50
14	A	803	CLA	CMD-C2D	-2.09	1.46	1.50
21	L	202	LMT	O2'-C2'	-2.07	1.38	1.43
14	A	815	CLA	CMD-C2D	-2.06	1.46	1.50
14	B	823	CLA	CMD-C2D	-2.05	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	842	CLA	CMD-C2D	-2.05	1.46	1.50
18	A	856	LMG	C7-C8	2.05	1.55	1.50
14	B	827	CLA	CMC-C2C	-2.04	1.46	1.50
14	A	826	CLA	CMD-C2D	-2.04	1.46	1.50
14	B	827	CLA	CMD-C2D	-2.04	1.46	1.50
14	A	821	CLA	CMD-C2D	-2.04	1.46	1.50
14	A	804	CLA	CMD-C2D	-2.03	1.46	1.50
14	B	808	CLA	CMD-C2D	-2.03	1.46	1.50
19	A	854	LHG	P-O6	2.03	1.67	1.59
14	B	830	CLA	CMD-C2D	-2.03	1.46	1.50
14	A	827	CLA	CMD-C2D	-2.03	1.46	1.50
14	B	822	CLA	CMD-C2D	-2.03	1.46	1.50
14	A	819	CLA	C3B-CAB	-2.03	1.43	1.47
14	A	822	CLA	CMD-C2D	-2.03	1.46	1.50
14	A	833	CLA	CMD-C2D	-2.03	1.46	1.50
14	B	804	CLA	CMD-C2D	-2.03	1.46	1.50
14	B	810	CLA	CMC-C2C	-2.03	1.46	1.50
14	B	814	CLA	CMD-C2D	-2.03	1.46	1.50
14	A	812	CLA	CMD-C2D	-2.03	1.46	1.50
14	B	806	CLA	CMD-C2D	-2.03	1.46	1.50
14	B	819	CLA	CMD-C2D	-2.02	1.46	1.50
14	B	820	CLA	CMD-C2D	-2.02	1.46	1.50
14	L	204	CLA	CMD-C2D	-2.02	1.46	1.50
19	B	850	LHG	O7-C5	-2.02	1.41	1.46
14	B	824	CLA	CMD-C2D	-2.02	1.46	1.50
14	A	819	CLA	CMD-C2D	-2.01	1.46	1.50
14	B	816	CLA	CMD-C2D	-2.01	1.46	1.50
14	K	101	CLA	CMD-C2D	-2.01	1.46	1.50
14	B	815	CLA	CMD-C2D	-2.01	1.46	1.50
14	B	838	CLA	CMD-C2D	-2.01	1.46	1.50
14	A	807	CLA	CMD-C2D	-2.01	1.46	1.50
14	A	810	CLA	CMD-C2D	-2.01	1.46	1.50
14	B	819	CLA	CMC-C2C	-2.01	1.46	1.50
14	A	839	CLA	CMD-C2D	-2.01	1.46	1.50
14	B	808	CLA	CMC-C2C	-2.01	1.46	1.50
14	A	828	CLA	CMD-C2D	-2.00	1.46	1.50
14	F	201	CLA	CMD-C2D	-2.00	1.46	1.50
14	B	836	CLA	CMD-C2D	-2.00	1.46	1.50
22	L	207	DGD	O6D-C5D	-2.00	1.39	1.44

All (942) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	842	CLA	C4A-NA-C1A	7.34	110.00	106.71
14	B	802	CLA	C4A-NA-C1A	7.25	109.97	106.71
14	B	810	CLA	C4A-NA-C1A	7.14	109.92	106.71
14	B	811	CLA	C4A-NA-C1A	6.95	109.83	106.71
14	L	204	CLA	C4A-NA-C1A	6.86	109.79	106.71
14	A	806	CLA	C4A-NA-C1A	6.86	109.79	106.71
14	A	840	CLA	C4A-NA-C1A	6.83	109.78	106.71
13	A	801	CL0	C4A-NA-C1A	6.78	109.75	106.71
14	B	804	CLA	C4A-NA-C1A	6.71	109.72	106.71
14	B	805	CLA	C4A-NA-C1A	6.70	109.72	106.71
14	B	841	CLA	C4A-NA-C1A	6.69	109.71	106.71
14	B	838	CLA	C4A-NA-C1A	6.68	109.71	106.71
14	B	814	CLA	C4A-NA-C1A	6.66	109.70	106.71
14	B	832	CLA	C4A-NA-C1A	6.59	109.67	106.71
14	B	807	CLA	C4A-NA-C1A	6.53	109.64	106.71
14	B	835	CLA	C4A-NA-C1A	6.53	109.64	106.71
14	J	101	CLA	C4A-NA-C1A	6.53	109.64	106.71
14	B	837	CLA	C4A-NA-C1A	6.52	109.64	106.71
14	A	818	CLA	C4A-NA-C1A	6.51	109.63	106.71
14	L	206	CLA	C4A-NA-C1A	6.50	109.63	106.71
14	A	814	CLA	C4A-NA-C1A	6.47	109.61	106.71
14	B	819	CLA	C4A-NA-C1A	6.43	109.60	106.71
14	A	844	CLA	C4A-NA-C1A	6.43	109.60	106.71
14	B	826	CLA	C4A-NA-C1A	6.40	109.58	106.71
14	A	816	CLA	C4A-NA-C1A	6.39	109.58	106.71
14	A	839	CLA	C4A-NA-C1A	6.38	109.58	106.71
14	B	840	CLA	C4A-NA-C1A	6.38	109.58	106.71
14	F	201	CLA	C4A-NA-C1A	6.38	109.57	106.71
14	B	822	CLA	C4A-NA-C1A	6.37	109.57	106.71
14	B	834	CLA	C4A-NA-C1A	6.36	109.57	106.71
14	A	809	CLA	C4A-NA-C1A	6.36	109.57	106.71
14	K	102	CLA	C4A-NA-C1A	6.35	109.56	106.71
14	B	809	CLA	C4A-NA-C1A	6.34	109.56	106.71
14	M	102	CLA	C4A-NA-C1A	6.34	109.56	106.71
14	A	825	CLA	C4A-NA-C1A	6.33	109.55	106.71
14	B	812	CLA	C4A-NA-C1A	6.33	109.55	106.71
14	A	811	CLA	C4A-NA-C1A	6.32	109.55	106.71
14	B	808	CLA	C4A-NA-C1A	6.31	109.54	106.71
14	A	830	CLA	C4A-NA-C1A	6.31	109.54	106.71
14	A	810	CLA	C4A-NA-C1A	6.30	109.54	106.71
14	A	823	CLA	C4A-NA-C1A	6.29	109.53	106.71
14	A	813	CLA	C4A-NA-C1A	6.29	109.53	106.71
14	A	831	CLA	C4A-NA-C1A	6.29	109.53	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	841	CLA	C4A-NA-C1A	6.29	109.53	106.71
14	A	843	CLA	C4A-NA-C1A	6.29	109.53	106.71
14	A	826	CLA	C4A-NA-C1A	6.27	109.53	106.71
14	B	816	CLA	C4A-NA-C1A	6.26	109.52	106.71
14	B	818	CLA	C4A-NA-C1A	6.26	109.52	106.71
14	A	821	CLA	C4A-NA-C1A	6.26	109.52	106.71
14	B	821	CLA	C4A-NA-C1A	6.25	109.52	106.71
14	A	812	CLA	C4A-NA-C1A	6.23	109.51	106.71
14	B	830	CLA	C4A-NA-C1A	6.21	109.50	106.71
14	B	806	CLA	C4A-NA-C1A	6.18	109.48	106.71
14	B	839	CLA	C4A-NA-C1A	6.17	109.48	106.71
14	B	813	CLA	C4A-NA-C1A	6.17	109.48	106.71
14	A	804	CLA	C4A-NA-C1A	6.17	109.48	106.71
14	B	836	CLA	C4A-NA-C1A	6.17	109.48	106.71
14	L	205	CLA	C4A-NA-C1A	6.15	109.47	106.71
14	A	807	CLA	C4A-NA-C1A	6.15	109.47	106.71
14	A	832	CLA	C4A-NA-C1A	6.14	109.47	106.71
14	X	1701	CLA	C4A-NA-C1A	6.14	109.47	106.71
14	A	822	CLA	C4A-NA-C1A	6.13	109.46	106.71
14	A	817	CLA	C4A-NA-C1A	6.12	109.46	106.71
14	K	101	CLA	C4A-NA-C1A	6.12	109.46	106.71
14	A	837	CLA	C4A-NA-C1A	6.10	109.45	106.71
14	B	823	CLA	C4A-NA-C1A	6.10	109.45	106.71
14	B	833	CLA	C4A-NA-C1A	6.09	109.44	106.71
14	A	838	CLA	C4A-NA-C1A	6.09	109.44	106.71
14	J	102	CLA	C4A-NA-C1A	6.05	109.42	106.71
14	A	808	CLA	C4A-NA-C1A	6.04	109.42	106.71
14	A	857	CLA	C4A-NA-C1A	6.01	109.41	106.71
14	A	827	CLA	C4A-NA-C1A	6.00	109.40	106.71
14	B	803	CLA	C4A-NA-C1A	5.99	109.40	106.71
14	B	820	CLA	C4A-NA-C1A	5.98	109.39	106.71
14	B	829	CLA	C4A-NA-C1A	5.98	109.39	106.71
14	A	833	CLA	C4A-NA-C1A	5.93	109.37	106.71
14	A	805	CLA	C4A-NA-C1A	5.92	109.37	106.71
14	B	825	CLA	C4A-NA-C1A	5.87	109.34	106.71
14	A	828	CLA	C4A-NA-C1A	5.84	109.33	106.71
14	B	815	CLA	C4A-NA-C1A	5.82	109.32	106.71
14	A	820	CLA	C4A-NA-C1A	5.82	109.32	106.71
14	A	815	CLA	C4A-NA-C1A	5.76	109.30	106.71
14	A	829	CLA	C4A-NA-C1A	5.71	109.27	106.71
14	A	803	CLA	C4A-NA-C1A	5.69	109.26	106.71
14	B	824	CLA	C4A-NA-C1A	5.68	109.26	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	824	CLA	C4A-NA-C1A	5.66	109.25	106.71
14	B	817	CLA	C4A-NA-C1A	5.64	109.24	106.71
14	A	836	CLA	C4A-NA-C1A	5.57	109.21	106.71
14	A	834	CLA	C4A-NA-C1A	5.54	109.20	106.71
14	B	831	CLA	C4A-NA-C1A	5.53	109.19	106.71
14	F	202	CLA	C4A-NA-C1A	5.51	109.18	106.71
14	B	828	CLA	C4A-NA-C1A	5.45	109.16	106.71
14	B	827	CLA	C4A-NA-C1A	5.39	109.13	106.71
14	A	802	CLA	C4A-NA-C1A	5.36	109.12	106.71
14	A	835	CLA	C4A-NA-C1A	5.35	109.11	106.71
14	L	206	CLA	CMB-C2B-C1B	-5.29	120.33	128.46
14	A	819	CLA	C4A-NA-C1A	5.01	108.96	106.71
14	L	206	CLA	CMB-C2B-C3B	4.47	133.04	124.68
19	M	101	LHG	O4-P-O5	4.21	133.03	112.24
22	L	207	DGD	O3G-C3G-C2G	-4.20	100.75	110.90
19	B	850	LHG	O4-P-O5	4.16	132.80	112.24
19	A	854	LHG	O4-P-O5	4.15	132.74	112.24
19	A	855	LHG	O4-P-O5	4.13	132.67	112.24
14	B	831	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
14	B	809	CLA	CMB-C2B-C1B	-4.03	122.27	128.46
14	A	843	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
14	L	205	CLA	CMB-C2B-C1B	-3.80	122.62	128.46
14	A	803	CLA	CMB-C2B-C1B	-3.71	122.76	128.46
14	A	822	CLA	CMB-C2B-C1B	-3.66	122.83	128.46
14	A	831	CLA	CMB-C2B-C1B	-3.62	122.90	128.46
19	A	855	LHG	O8-C23-C24	3.62	120.86	111.38
14	A	810	CLA	CMB-C2B-C1B	-3.62	122.91	128.46
17	B	846	BCR	C15-C16-C17	-3.61	116.08	123.47
17	A	852	BCR	C2-C1-C6	3.60	116.02	110.48
14	A	809	CLA	CMB-C2B-C1B	-3.59	122.95	128.46
14	A	820	CLA	CMB-C2B-C1B	-3.58	122.95	128.46
14	A	825	CLA	CMB-C2B-C1B	-3.58	122.97	128.46
14	A	839	CLA	O2D-CGD-O1D	-3.55	116.89	123.84
22	L	207	DGD	O6D-C1D-O3G	-3.54	101.58	109.97
14	A	819	CLA	CMB-C2B-C1B	-3.54	123.02	128.46
14	B	812	CLA	CMB-C2B-C1B	-3.51	123.07	128.46
14	A	826	CLA	CMB-C2B-C1B	-3.50	123.09	128.46
14	B	811	CLA	CMB-C2B-C1B	-3.49	123.10	128.46
14	B	820	CLA	CMB-C2B-C1B	-3.48	123.12	128.46
14	A	830	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
14	B	829	CLA	CAA-C2A-C3A	-3.45	103.33	112.78
14	B	821	CLA	CMB-C2B-C1B	-3.45	123.16	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	K	102	CLA	O2D-CGD-O1D	-3.45	117.10	123.84
14	B	831	CLA	CMB-C2B-C3B	3.44	131.12	124.68
17	F	203	BCR	C35-C13-C14	-3.44	118.11	122.92
14	A	824	CLA	CMB-C2B-C1B	-3.43	123.20	128.46
14	A	836	CLA	O2D-CGD-O1D	-3.41	117.16	123.84
14	B	817	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
14	B	813	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
14	B	828	CLA	O2D-CGD-O1D	-3.40	117.19	123.84
14	B	816	CLA	CMB-C2B-C1B	-3.40	123.25	128.46
14	A	839	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
14	A	831	CLA	O2D-CGD-O1D	-3.39	117.22	123.84
14	B	803	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
14	B	833	CLA	CMB-C2B-C1B	-3.37	123.29	128.46
14	A	857	CLA	CMB-C2B-C1B	-3.36	123.30	128.46
14	A	821	CLA	CMB-C2B-C1B	-3.34	123.34	128.46
14	B	836	CLA	CMB-C2B-C1B	-3.32	123.36	128.46
14	A	838	CLA	CMB-C2B-C1B	-3.31	123.38	128.46
14	A	837	CLA	CMB-C2B-C1B	-3.31	123.38	128.46
14	B	810	CLA	CHB-C4A-NA	3.30	129.08	124.51
14	L	204	CLA	CMB-C2B-C1B	-3.29	123.41	128.46
14	B	832	CLA	O2D-CGD-O1D	-3.29	117.41	123.84
14	K	101	CLA	CMB-C2B-C1B	-3.28	123.42	128.46
14	A	833	CLA	CMB-C2B-C1B	-3.28	123.43	128.46
14	A	811	CLA	O2D-CGD-O1D	-3.28	117.43	123.84
14	A	802	CLA	CMB-C2B-C1B	-3.27	123.44	128.46
14	B	839	CLA	O2D-CGD-O1D	-3.27	117.44	123.84
14	B	819	CLA	CMB-C2B-C1B	-3.27	123.44	128.46
17	I	103	BCR	C15-C16-C17	-3.26	116.79	123.47
14	B	829	CLA	CMB-C2B-C1B	-3.26	123.45	128.46
14	A	857	CLA	O2D-CGD-O1D	-3.24	117.50	123.84
17	A	851	BCR	C15-C16-C17	-3.23	116.85	123.47
14	B	826	CLA	O2D-CGD-O1D	-3.23	117.52	123.84
14	B	828	CLA	CMB-C2B-C1B	-3.23	123.50	128.46
14	A	802	CLA	O2D-CGD-O1D	-3.23	117.53	123.84
14	B	837	CLA	CMB-C2B-C1B	-3.22	123.52	128.46
14	B	827	CLA	O2D-CGD-O1D	-3.21	117.56	123.84
14	A	814	CLA	O2D-CGD-O1D	-3.21	117.56	123.84
17	A	848	BCR	C15-C16-C17	-3.21	116.90	123.47
14	B	837	CLA	O2D-CGD-O1D	-3.21	117.57	123.84
14	A	821	CLA	O2D-CGD-O1D	-3.20	117.57	123.84
14	B	811	CLA	O2D-CGD-O1D	-3.20	117.57	123.84
14	B	830	CLA	CMB-C2B-C1B	-3.20	123.55	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	834	CLA	O2D-CGD-O1D	-3.20	117.58	123.84
14	L	205	CLA	O2D-CGD-O1D	-3.20	117.59	123.84
14	A	844	CLA	CMB-C2B-C1B	-3.19	123.55	128.46
14	B	840	CLA	O2D-CGD-O1D	-3.19	117.60	123.84
14	A	818	CLA	O2D-CGD-O1D	-3.18	117.62	123.84
14	A	820	CLA	CMB-C2B-C3B	3.18	130.62	124.68
14	B	807	CLA	O2D-CGD-O1D	-3.17	117.64	123.84
14	B	818	CLA	CMB-C2B-C1B	-3.17	123.60	128.46
17	A	847	BCR	C2-C1-C6	3.16	115.35	110.48
14	B	823	CLA	O2D-CGD-O1D	-3.16	117.66	123.84
14	J	101	CLA	CMB-C2B-C1B	-3.15	123.62	128.46
14	B	827	CLA	CMB-C2B-C1B	-3.15	123.63	128.46
14	A	807	CLA	CMB-C2B-C1B	-3.15	123.63	128.46
14	B	810	CLA	CMB-C2B-C1B	-3.14	123.64	128.46
14	B	805	CLA	CMB-C2B-C1B	-3.13	123.65	128.46
17	A	850	BCR	C15-C14-C13	-3.13	122.84	127.31
14	A	828	CLA	O2D-CGD-O1D	-3.13	117.72	123.84
14	A	829	CLA	CMB-C2B-C1B	-3.13	123.66	128.46
14	A	813	CLA	O2D-CGD-O1D	-3.12	117.73	123.84
17	L	201	BCR	C15-C14-C13	-3.12	122.85	127.31
14	A	803	CLA	CMB-C2B-C3B	3.12	130.51	124.68
14	F	201	CLA	CMB-C2B-C1B	-3.11	123.68	128.46
14	A	809	CLA	O2D-CGD-O1D	-3.11	117.75	123.84
17	L	201	BCR	C15-C16-C17	-3.11	117.10	123.47
14	L	205	CLA	CMB-C2B-C3B	3.11	130.50	124.68
17	I	103	BCR	C24-C23-C22	-3.11	121.54	126.23
14	B	807	CLA	CMB-C2B-C1B	-3.10	123.69	128.46
14	A	829	CLA	O2D-CGD-O1D	-3.10	117.78	123.84
14	B	822	CLA	CMB-C2B-C1B	-3.10	123.70	128.46
14	B	824	CLA	CMB-C2B-C1B	-3.09	123.71	128.46
14	A	830	CLA	O2D-CGD-O1D	-3.09	117.80	123.84
14	A	808	CLA	CMB-C2B-C1B	-3.09	123.72	128.46
14	A	828	CLA	CMB-C2B-C1B	-3.08	123.73	128.46
14	A	824	CLA	CMB-C2B-C3B	3.08	130.44	124.68
14	A	822	CLA	O2D-CGD-O1D	-3.08	117.82	123.84
17	J	105	BCR	C7-C8-C9	-3.08	121.58	126.23
14	A	822	CLA	CMB-C2B-C3B	3.08	130.43	124.68
14	A	806	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
14	B	821	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
14	A	812	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
14	B	834	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
14	A	802	CLA	CMB-C2B-C3B	3.07	130.42	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	804	CLA	CMB-C2B-C1B	-3.07	123.75	128.46
14	B	815	CLA	CMB-C2B-C1B	-3.06	123.76	128.46
14	A	823	CLA	CMB-C2B-C1B	-3.05	123.77	128.46
14	B	826	CLA	CMB-C2B-C1B	-3.05	123.77	128.46
14	X	1701	CLA	O2D-CGD-O1D	-3.05	117.87	123.84
14	B	819	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
14	A	803	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
14	A	809	CLA	CMB-C2B-C3B	3.05	130.38	124.68
14	A	815	CLA	CMB-C2B-C1B	-3.04	123.79	128.46
14	L	206	CLA	O2D-CGD-O1D	-3.04	117.90	123.84
14	A	825	CLA	CMB-C2B-C3B	3.03	130.35	124.68
17	J	105	BCR	C15-C16-C17	-3.03	117.26	123.47
14	B	840	CLA	CMB-C2B-C1B	-3.03	123.81	128.46
14	B	841	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
14	B	834	CLA	CMB-C2B-C1B	-3.02	123.83	128.46
14	A	817	CLA	O2D-CGD-O1D	-3.01	117.94	123.84
14	A	805	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
14	B	825	CLA	CMB-C2B-C1B	-3.01	123.84	128.46
14	B	838	CLA	CMB-C2B-C1B	-3.00	123.86	128.46
14	B	820	CLA	O2D-CGD-O1D	-2.99	117.98	123.84
14	B	805	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
14	A	835	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
14	B	824	CLA	O2D-CGD-O1D	-2.98	118.00	123.84
14	A	826	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
14	B	817	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
14	A	808	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
14	A	819	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
14	A	817	CLA	CMB-C2B-C1B	-2.98	123.89	128.46
14	A	819	CLA	CMB-C2B-C3B	2.97	130.24	124.68
14	B	809	CLA	CMB-C2B-C3B	2.97	130.24	124.68
14	A	823	CLA	O2D-CGD-O1D	-2.97	118.02	123.84
14	A	840	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
14	A	826	CLA	CMB-C2B-C3B	2.97	130.24	124.68
14	B	831	CLA	O2D-CGD-O1D	-2.97	118.04	123.84
17	J	103	BCR	C15-C14-C13	-2.97	123.08	127.31
14	A	816	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
14	A	838	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
14	B	841	CLA	CMB-C2B-C1B	-2.96	123.91	128.46
14	A	857	CLA	CMB-C2B-C3B	2.96	130.21	124.68
14	B	815	CLA	O2D-CGD-O1D	-2.95	118.06	123.84
14	A	806	CLA	CMB-C2B-C1B	-2.95	123.92	128.46
14	A	827	CLA	CMB-C2B-C1B	-2.95	123.92	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	834	CLA	CMB-C2B-C1B	-2.95	123.92	128.46
14	B	838	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
14	A	824	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
14	A	837	CLA	O2D-CGD-O1D	-2.95	118.08	123.84
14	B	832	CLA	CMB-C2B-C1B	-2.94	123.94	128.46
17	J	104	BCR	C15-C16-C17	-2.94	117.46	123.47
14	B	836	CLA	O2D-CGD-O1D	-2.94	118.10	123.84
14	A	820	CLA	C1B-CHB-C4A	-2.94	124.30	130.12
17	J	103	BCR	C15-C16-C17	-2.93	117.47	123.47
17	A	847	BCR	C15-C16-C17	-2.93	117.48	123.47
14	B	830	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
14	B	806	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
14	A	804	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
14	B	818	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
14	B	819	CLA	CMB-C2B-C3B	2.91	130.12	124.68
14	B	811	CLA	CMB-C2B-C3B	2.90	130.11	124.68
14	A	830	CLA	CMB-C2B-C3B	2.90	130.10	124.68
14	A	839	CLA	CMB-C2B-C3B	2.90	130.10	124.68
17	A	850	BCR	C15-C16-C17	-2.90	117.54	123.47
14	F	202	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
18	B	849	LMG	O6-C1-O1	-2.89	103.12	109.97
14	A	825	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
18	I	102	LMG	O6-C1-O1	-2.89	103.13	109.97
14	A	818	CLA	CMB-C2B-C1B	-2.89	124.03	128.46
14	A	807	CLA	O2D-CGD-O1D	-2.89	118.20	123.84
14	A	857	CLA	C1B-CHB-C4A	-2.88	124.40	130.12
14	A	811	CLA	CMB-C2B-C1B	-2.87	124.05	128.46
14	B	813	CLA	CMB-C2B-C3B	2.87	130.05	124.68
14	A	832	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
14	B	817	CLA	CMB-C2B-C3B	2.87	130.04	124.68
14	A	820	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
14	B	813	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
14	A	816	CLA	CMB-C2B-C1B	-2.86	124.06	128.46
14	A	832	CLA	CMB-C2B-C1B	-2.86	124.06	128.46
17	B	845	BCR	C15-C16-C17	-2.86	117.61	123.47
14	B	809	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
14	A	836	CLA	CMB-C2B-C1B	-2.86	124.07	128.46
14	M	102	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
14	A	827	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
17	J	103	BCR	C33-C5-C6	-2.85	121.32	124.53
17	A	852	BCR	C15-C16-C17	-2.85	117.63	123.47
14	J	101	CLA	O2D-CGD-O1D	-2.85	118.27	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	M	103	BCR	C33-C5-C6	-2.85	121.33	124.53
14	L	204	CLA	CMB-C2B-C3B	2.85	130.00	124.68
14	A	843	CLA	CMB-C2B-C3B	2.85	130.00	124.68
14	B	827	CLA	CMB-C2B-C3B	2.85	130.00	124.68
14	A	843	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
14	A	802	CLA	C1B-CHB-C4A	-2.84	124.49	130.12
14	B	804	CLA	CMB-C2B-C1B	-2.84	124.10	128.46
17	A	848	BCR	C33-C5-C6	-2.84	121.34	124.53
14	B	825	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
14	A	841	CLA	CMB-C2B-C1B	-2.83	124.11	128.46
14	B	816	CLA	CMB-C2B-C3B	2.83	129.97	124.68
14	B	820	CLA	CMB-C2B-C3B	2.83	129.97	124.68
14	M	102	CLA	CMB-C2B-C1B	-2.83	124.12	128.46
14	B	833	CLA	CMB-C2B-C3B	2.83	129.97	124.68
17	J	104	BCR	C24-C23-C22	-2.83	121.97	126.23
14	A	842	CLA	O2D-CGD-O1D	-2.82	118.31	123.84
14	A	835	CLA	C1B-CHB-C4A	-2.82	124.53	130.12
17	B	851	BCR	C33-C5-C6	-2.82	121.36	124.53
14	A	844	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
14	A	810	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
14	B	810	CLA	CMB-C2B-C3B	2.82	129.95	124.68
14	B	833	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
14	B	803	CLA	O2D-CGD-O1D	-2.81	118.35	123.84
14	B	806	CLA	CMB-C2B-C1B	-2.80	124.16	128.46
17	B	844	BCR	C2-C1-C6	2.80	114.79	110.48
17	A	847	BCR	C24-C23-C22	-2.79	122.02	126.23
14	B	803	CLA	CMB-C2B-C3B	2.79	129.89	124.68
14	B	824	CLA	CMB-C2B-C3B	2.78	129.88	124.68
14	K	102	CLA	CMB-C2B-C1B	-2.78	124.19	128.46
14	A	821	CLA	CMB-C2B-C3B	2.77	129.87	124.68
17	B	845	BCR	C33-C5-C6	-2.77	121.42	124.53
14	B	807	CLA	C1B-CHB-C4A	-2.77	124.63	130.12
17	B	851	BCR	C15-C16-C17	-2.77	117.81	123.47
14	B	802	CLA	CMB-C2B-C1B	-2.77	124.21	128.46
14	A	805	CLA	CMB-C2B-C1B	-2.76	124.22	128.46
14	A	829	CLA	CMB-C2B-C3B	2.76	129.84	124.68
14	A	842	CLA	CHB-C4A-NA	2.76	128.32	124.51
17	B	843	BCR	C15-C16-C17	-2.75	117.83	123.47
14	B	803	CLA	CHB-C4A-NA	2.75	128.32	124.51
17	I	103	BCR	C33-C5-C6	-2.75	121.44	124.53
14	B	839	CLA	CMB-C2B-C1B	-2.75	124.24	128.46
14	L	204	CLA	O2D-CGD-O1D	-2.75	118.47	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	835	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
17	B	843	BCR	C24-C23-C22	-2.74	122.09	126.23
14	F	201	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
14	B	821	CLA	CMB-C2B-C3B	2.74	129.81	124.68
14	K	101	CLA	CMB-C2B-C3B	2.74	129.80	124.68
14	A	841	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
14	B	822	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
15	A	845	PQN	O1-C1-C10	-2.74	117.13	121.56
14	B	829	CLA	CHB-C4A-NA	2.73	128.29	124.51
14	B	835	CLA	CMB-C2B-C1B	-2.73	124.26	128.46
17	A	852	BCR	C33-C5-C6	-2.73	121.46	124.53
14	A	831	CLA	CMB-C2B-C3B	2.73	129.79	124.68
13	A	801	CL0	O2D-CGD-O1D	-2.73	118.50	123.84
14	B	828	CLA	CMB-C2B-C3B	2.73	129.79	124.68
14	B	814	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
14	A	834	CLA	C1B-CHB-C4A	-2.72	124.72	130.12
14	B	802	CLA	O2D-CGD-O1D	-2.72	118.52	123.84
14	A	837	CLA	CMB-C2B-C3B	2.72	129.77	124.68
14	A	810	CLA	CMB-C2B-C3B	2.71	129.76	124.68
14	B	812	CLA	CMB-C2B-C3B	2.71	129.75	124.68
19	M	101	LHG	O8-C23-C24	2.71	120.41	111.91
14	B	837	CLA	CMB-C2B-C3B	2.71	129.75	124.68
14	J	102	CLA	CMB-C2B-C1B	-2.71	124.30	128.46
17	A	848	BCR	C15-C14-C13	-2.71	123.45	127.31
14	A	832	CLA	CHB-C4A-NA	2.71	128.25	124.51
17	A	849	BCR	C33-C5-C6	-2.71	121.49	124.53
17	I	101	BCR	C15-C16-C17	-2.70	117.94	123.47
14	B	818	CLA	CMB-C2B-C3B	2.70	129.73	124.68
17	I	103	BCR	C27-C26-C25	2.70	126.65	122.73
14	A	833	CLA	CMB-C2B-C3B	2.70	129.72	124.68
14	B	804	CLA	O2D-CGD-O1D	-2.70	118.57	123.84
15	B	842	PQN	O1-C1-C10	-2.69	117.20	121.56
14	B	817	CLA	CHB-C4A-NA	2.69	128.24	124.51
14	F	202	CLA	CMB-C2B-C1B	-2.69	124.33	128.46
14	A	803	CLA	C1B-CHB-C4A	-2.69	124.79	130.12
14	B	834	CLA	CHB-C4A-NA	2.69	128.23	124.51
14	L	204	CLA	O2A-CGA-O1A	-2.69	116.81	123.59
14	A	806	CLA	CHB-C4A-NA	2.68	128.21	124.51
14	A	812	CLA	CMB-C2B-C1B	-2.68	124.35	128.46
17	L	208	BCR	C15-C16-C17	-2.67	118.00	123.47
14	B	805	CLA	CMB-C2B-C3B	2.67	129.67	124.68
14	B	825	CLA	CHB-C4A-NA	2.67	128.20	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	X	1701	CLA	C1B-CHB-C4A	-2.67	124.84	130.12
17	A	850	BCR	C24-C23-C22	-2.66	122.21	126.23
14	A	827	CLA	CMB-C2B-C3B	2.66	129.66	124.68
17	L	201	BCR	C24-C23-C22	-2.66	122.22	126.23
17	F	203	BCR	C33-C5-C6	-2.66	121.55	124.53
17	A	848	BCR	C11-C10-C9	-2.66	123.52	127.31
14	A	838	CLA	CMB-C2B-C3B	2.66	129.65	124.68
17	B	846	BCR	C2-C1-C6	2.65	114.56	110.48
14	B	824	CLA	CHB-C4A-NA	2.65	128.18	124.51
14	L	204	CLA	CHB-C4A-NA	2.65	128.18	124.51
13	A	801	CL0	CMB-C2B-C1B	-2.65	124.40	128.46
17	J	104	BCR	C33-C5-C6	-2.65	121.56	124.53
17	J	105	BCR	C2-C1-C6	2.65	114.55	110.48
17	A	852	BCR	C15-C14-C13	-2.64	123.54	127.31
14	B	825	CLA	CMB-C2B-C3B	2.64	129.62	124.68
17	I	103	BCR	C15-C14-C13	-2.64	123.54	127.31
14	A	844	CLA	CMB-C2B-C3B	2.63	129.61	124.68
14	B	829	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
14	J	101	CLA	CMB-C2B-C3B	2.63	129.59	124.68
17	A	851	BCR	C33-C5-C6	-2.62	121.58	124.53
17	B	847	BCR	C2-C1-C6	2.62	114.52	110.48
17	I	101	BCR	C27-C26-C25	2.62	126.54	122.73
14	A	833	CLA	O2D-CGD-O1D	-2.62	118.72	123.84
14	B	808	CLA	O2D-CGD-O1D	-2.62	118.72	123.84
14	A	823	CLA	CMB-C2B-C3B	2.62	129.58	124.68
14	B	814	CLA	CMB-C2B-C1B	-2.62	124.44	128.46
14	A	824	CLA	C1B-CHB-C4A	-2.62	124.93	130.12
14	L	205	CLA	O2D-CGD-CBD	2.62	115.92	111.27
17	A	850	BCR	C33-C5-C6	-2.61	121.59	124.53
14	A	812	CLA	C1B-CHB-C4A	-2.61	124.94	130.12
14	A	842	CLA	CMB-C2B-C1B	-2.61	124.45	128.46
14	B	816	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
14	L	206	CLA	CHB-C4A-NA	2.61	128.12	124.51
14	B	807	CLA	CMB-C2B-C3B	2.61	129.55	124.68
14	B	835	CLA	CHB-C4A-NA	2.60	128.11	124.51
14	A	816	CLA	C1B-CHB-C4A	-2.60	124.96	130.12
14	B	815	CLA	CMB-C2B-C3B	2.60	129.54	124.68
14	B	839	CLA	C1B-CHB-C4A	-2.60	124.97	130.12
14	B	811	CLA	CHB-C4A-NA	2.60	128.11	124.51
14	B	829	CLA	CMB-C2B-C3B	2.60	129.54	124.68
14	A	809	CLA	CHB-C4A-NA	2.60	128.10	124.51
14	A	814	CLA	CHB-C4A-NA	2.59	128.10	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	822	CLA	CMB-C2B-C3B	2.59	129.52	124.68
17	I	101	BCR	C33-C5-C6	-2.59	121.62	124.53
17	I	101	BCR	C24-C23-C22	-2.59	122.33	126.23
14	B	810	CLA	O2D-CGD-O1D	-2.59	118.78	123.84
14	B	830	CLA	CMB-C2B-C3B	2.59	129.52	124.68
14	B	820	CLA	C1B-CHB-C4A	-2.58	125.00	130.12
14	A	838	CLA	CHB-C4A-NA	2.58	128.08	124.51
14	X	1701	CLA	CMB-C2B-C1B	-2.58	124.50	128.46
17	B	851	BCR	C27-C26-C25	2.58	126.48	122.73
17	L	208	BCR	C8-C7-C6	-2.58	119.96	127.20
19	A	854	LHG	O8-C23-C24	2.57	119.98	111.91
14	A	828	CLA	CMB-C2B-C3B	2.57	129.49	124.68
14	B	812	CLA	O2D-CGD-O1D	-2.57	118.81	123.84
14	F	201	CLA	CMB-C2B-C3B	2.57	129.48	124.68
14	B	834	CLA	CMB-C2B-C3B	2.56	129.48	124.68
14	B	826	CLA	CMB-C2B-C3B	2.56	129.48	124.68
17	L	208	BCR	C2-C1-C6	2.56	114.43	110.48
14	A	826	CLA	CHB-C4A-NA	2.56	128.06	124.51
14	A	815	CLA	CMB-C2B-C3B	2.56	129.47	124.68
14	A	837	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
14	B	810	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
14	A	815	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
14	A	834	CLA	CMB-C2B-C3B	2.56	129.46	124.68
18	B	849	LMG	O1-C7-C8	-2.55	104.73	110.90
17	F	203	BCR	C16-C15-C14	-2.55	118.25	123.47
14	A	835	CLA	CMB-C2B-C1B	-2.55	124.54	128.46
17	M	103	BCR	C15-C16-C17	-2.55	118.25	123.47
18	A	856	LMG	O6-C1-O1	-2.55	103.94	109.97
17	A	850	BCR	C27-C26-C25	2.55	126.43	122.73
17	B	848	BCR	C2-C1-C6	2.55	114.40	110.48
14	A	806	CLA	CMB-C2B-C3B	2.55	129.44	124.68
14	A	841	CLA	CMB-C2B-C3B	2.55	129.44	124.68
14	B	811	CLA	C1B-CHB-C4A	-2.54	125.08	130.12
17	A	847	BCR	C27-C26-C25	2.54	126.41	122.73
17	B	846	BCR	C24-C23-C22	-2.53	122.41	126.23
14	A	816	CLA	CMB-C2B-C3B	2.53	129.42	124.68
18	I	102	LMG	O1-C1-C2	-2.53	104.35	108.30
17	M	103	BCR	C24-C23-C22	-2.53	122.41	126.23
14	B	808	CLA	O2A-CGA-O1A	-2.53	117.20	123.59
14	A	807	CLA	CHB-C4A-NA	2.53	128.01	124.51
14	B	826	CLA	CHB-C4A-NA	2.53	128.01	124.51
14	A	841	CLA	C1B-CHB-C4A	-2.53	125.11	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	A	849	BCR	C27-C26-C25	2.53	126.40	122.73
17	B	847	BCR	C16-C15-C14	-2.53	118.30	123.47
17	B	847	BCR	C33-C5-C6	-2.52	121.69	124.53
14	B	832	CLA	CMB-C2B-C3B	2.52	129.40	124.68
14	B	827	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
22	L	207	DGD	O5D-C6D-C5D	-2.52	104.39	109.05
14	A	827	CLA	CHB-C4A-NA	2.52	127.99	124.51
14	A	823	CLA	C1B-CHB-C4A	-2.51	125.14	130.12
14	A	807	CLA	CMB-C2B-C3B	2.51	129.38	124.68
14	B	836	CLA	CMB-C2B-C3B	2.51	129.37	124.68
14	B	830	CLA	C1B-CHB-C4A	-2.51	125.15	130.12
14	A	814	CLA	CMB-C2B-C1B	-2.50	124.62	128.46
14	A	830	CLA	CHB-C4A-NA	2.50	127.97	124.51
17	L	201	BCR	C27-C26-C25	2.50	126.36	122.73
14	A	827	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
14	B	819	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
15	A	845	PQN	C2M-C2-C3	-2.50	120.33	124.40
14	A	813	CLA	CMB-C2B-C1B	-2.49	124.63	128.46
14	B	840	CLA	CHB-C4A-NA	2.49	127.96	124.51
14	B	823	CLA	CMB-C2B-C1B	-2.49	124.63	128.46
14	X	1701	CLA	CHB-C4A-NA	2.49	127.96	124.51
14	B	833	CLA	C1B-CHB-C4A	-2.49	125.18	130.12
14	B	818	CLA	C1B-CHB-C4A	-2.49	125.18	130.12
14	A	840	CLA	CMB-C2B-C1B	-2.49	124.64	128.46
14	B	824	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
14	B	816	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
17	B	848	BCR	C16-C15-C14	-2.48	118.38	123.47
14	B	836	CLA	C1B-CHB-C4A	-2.48	125.20	130.12
17	B	847	BCR	C15-C16-C17	-2.48	118.39	123.47
14	B	809	CLA	O1D-CGD-CBD	2.48	129.56	124.48
14	B	806	CLA	CHB-C4A-NA	2.48	127.94	124.51
14	A	817	CLA	CMB-C2B-C3B	2.48	129.32	124.68
14	J	101	CLA	CHB-C4A-NA	2.48	127.94	124.51
14	B	831	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
14	B	804	CLA	CHB-C4A-NA	2.47	127.93	124.51
13	A	801	CL0	CHB-C4A-NA	2.47	127.93	124.51
14	A	804	CLA	CMB-C2B-C3B	2.47	129.30	124.68
14	B	829	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
17	L	208	BCR	C33-C5-C6	-2.47	121.76	124.53
14	A	808	CLA	CMB-C2B-C3B	2.47	129.29	124.68
17	L	201	BCR	C33-C5-C6	-2.46	121.76	124.53
14	B	834	CLA	C1B-CHB-C4A	-2.46	125.24	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	808	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
17	B	847	BCR	C24-C23-C22	-2.45	122.53	126.23
14	B	815	CLA	CHB-C4A-NA	2.45	127.90	124.51
14	B	812	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
14	B	814	CLA	CHB-C4A-NA	2.45	127.90	124.51
14	A	822	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
17	I	101	BCR	C11-C10-C9	-2.45	123.81	127.31
14	B	830	CLA	CHB-C4A-NA	2.45	127.90	124.51
14	F	201	CLA	CHB-C4A-NA	2.45	127.90	124.51
13	A	801	CL0	C1B-CHB-C4A	-2.45	125.27	130.12
14	A	803	CLA	CHB-C4A-NA	2.45	127.90	124.51
14	A	836	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
17	M	103	BCR	C15-C14-C13	-2.45	123.82	127.31
14	A	823	CLA	CHB-C4A-NA	2.44	127.89	124.51
14	B	840	CLA	O2A-CGA-O1A	-2.44	117.42	123.59
14	B	840	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
14	A	818	CLA	CMB-C2B-C3B	2.44	129.24	124.68
14	A	809	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
14	A	840	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
14	A	825	CLA	CHB-C4A-NA	2.43	127.88	124.51
14	B	840	CLA	CMB-C2B-C3B	2.43	129.23	124.68
14	B	802	CLA	CHB-C4A-NA	2.43	127.88	124.51
14	A	818	CLA	CHB-C4A-NA	2.43	127.87	124.51
14	A	835	CLA	CHB-C4A-NA	2.43	127.87	124.51
14	B	841	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
14	B	828	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
17	L	201	BCR	C35-C13-C14	-2.43	119.53	122.92
14	A	815	CLA	C1B-CHB-C4A	-2.42	125.31	130.12
17	J	104	BCR	C20-C21-C22	-2.42	123.85	127.31
17	B	848	BCR	C15-C16-C17	-2.42	118.51	123.47
17	A	848	BCR	C24-C23-C22	-2.42	122.58	126.23
14	B	818	CLA	CHB-C4A-NA	2.42	127.86	124.51
14	A	810	CLA	CHB-C4A-NA	2.42	127.85	124.51
14	K	102	CLA	CHB-C4A-NA	2.41	127.85	124.51
14	B	821	CLA	CHB-C4A-NA	2.41	127.85	124.51
14	K	102	CLA	CMB-C2B-C3B	2.41	129.19	124.68
14	K	102	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
14	A	816	CLA	CHB-C4A-NA	2.41	127.84	124.51
14	B	819	CLA	CHB-C4A-NA	2.41	127.84	124.51
17	B	843	BCR	C2-C1-C6	2.41	114.19	110.48
14	K	102	CLA	O2D-CGD-CBD	2.41	115.54	111.27
17	B	847	BCR	C27-C26-C25	2.41	126.22	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	821	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
14	A	820	CLA	C1-C2-C3	-2.40	121.89	126.04
14	B	815	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
14	A	819	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
14	B	813	CLA	CHB-C4A-NA	2.39	127.82	124.51
14	F	201	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
14	A	844	CLA	CHB-C4A-NA	2.39	127.81	124.51
14	B	802	CLA	CMB-C2B-C3B	2.39	129.15	124.68
17	A	847	BCR	C33-C5-C6	-2.39	121.85	124.53
17	B	844	BCR	C8-C7-C6	-2.39	120.50	127.20
17	A	847	BCR	C15-C14-C13	-2.39	123.91	127.31
14	B	807	CLA	O2D-CGD-CBD	2.38	115.50	111.27
17	B	846	BCR	C15-C14-C13	-2.38	123.91	127.31
17	B	847	BCR	C8-C7-C6	-2.38	120.52	127.20
14	B	814	CLA	C1B-CHB-C4A	-2.38	125.41	130.12
14	A	834	CLA	CHD-C1D-ND	-2.38	122.27	124.45
14	B	804	CLA	CMB-C2B-C3B	2.38	129.12	124.68
14	L	206	CLA	C1-C2-C3	-2.37	121.94	126.04
14	A	831	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
14	L	204	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
14	A	836	CLA	O2D-CGD-CBD	2.37	115.48	111.27
14	A	812	CLA	CMB-C2B-C3B	2.37	129.11	124.68
14	X	1701	CLA	CMB-C2B-C3B	2.37	129.11	124.68
14	A	832	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
14	A	808	CLA	CHB-C4A-NA	2.37	127.78	124.51
14	F	202	CLA	CHB-C4A-NA	2.37	127.78	124.51
14	A	826	CLA	C1B-CHB-C4A	-2.36	125.43	130.12
17	B	844	BCR	C33-C5-C6	-2.36	121.87	124.53
14	B	838	CLA	CMB-C2B-C3B	2.36	129.10	124.68
17	J	104	BCR	C15-C14-C13	-2.36	123.94	127.31
14	B	833	CLA	CHB-C4A-NA	2.36	127.78	124.51
14	A	825	CLA	CHD-C1D-ND	-2.36	122.28	124.45
17	J	105	BCR	C27-C26-C25	2.36	126.16	122.73
14	B	822	CLA	CHB-C4A-NA	2.36	127.77	124.51
17	B	843	BCR	C28-C27-C26	-2.36	109.87	114.08
14	A	839	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
22	L	207	DGD	O3G-C1D-C2D	-2.36	104.62	108.30
14	A	811	CLA	CMB-C2B-C3B	2.36	129.09	124.68
14	A	828	CLA	CHB-C4A-NA	2.36	127.77	124.51
14	B	803	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
14	B	832	CLA	O2D-CGD-CBD	2.36	115.45	111.27
14	B	837	CLA	CHB-C4A-NA	2.35	127.77	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	854	LHG	C18-C17-C16	-2.35	102.47	114.42
14	A	838	CLA	O2A-CGA-O1A	-2.35	117.66	123.59
17	M	103	BCR	C28-C27-C26	-2.35	109.88	114.08
14	A	832	CLA	CMB-C2B-C3B	2.35	129.07	124.68
14	A	804	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
14	A	812	CLA	CHD-C1D-ND	-2.35	122.30	124.45
14	B	838	CLA	CHB-C4A-NA	2.35	127.75	124.51
14	B	832	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
14	A	835	CLA	CMB-C2B-C3B	2.34	129.06	124.68
19	M	101	LHG	C20-C19-C18	-2.34	102.53	114.42
14	B	839	CLA	O2D-CGD-CBD	2.34	115.43	111.27
14	A	839	CLA	CHB-C4A-NA	2.34	127.75	124.51
17	A	852	BCR	C8-C7-C6	-2.34	120.63	127.20
14	B	835	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
17	B	848	BCR	C33-C5-C6	-2.34	121.90	124.53
15	A	845	PQN	C2M-C2-C1	2.34	120.14	116.27
14	B	804	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
14	A	806	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
14	B	823	CLA	CHB-C4A-NA	2.33	127.74	124.51
14	J	102	CLA	CMB-C2B-C3B	2.33	129.04	124.68
14	A	820	CLA	CAA-C2A-C1A	-2.33	104.33	111.97
14	B	813	CLA	CAC-C3C-C4C	2.33	127.83	124.81
14	F	202	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
14	L	205	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
17	F	203	BCR	C2-C1-C6	2.33	114.06	110.48
14	A	824	CLA	CHD-C1D-ND	-2.32	122.32	124.45
18	A	853	LMG	O1-C7-C8	-2.32	105.29	110.90
14	B	817	CLA	C1B-CHB-C4A	-2.32	125.51	130.12
14	A	804	CLA	CHB-C4A-NA	2.32	127.72	124.51
14	A	805	CLA	CMB-C2B-C3B	2.32	129.02	124.68
14	J	101	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
14	J	102	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
22	L	207	DGD	CAB-C9B-C8B	-2.32	102.67	114.42
14	B	812	CLA	CHB-C4A-NA	2.32	127.71	124.51
14	K	101	CLA	CHB-C4A-NA	2.31	127.71	124.51
14	A	843	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
14	A	842	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
14	B	809	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
14	A	825	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
14	B	802	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
18	B	849	LMG	C40-C39-C38	-2.31	102.72	114.42
14	A	819	CLA	CHB-C4A-NA	2.31	127.70	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	802	CLA	CHD-C1D-ND	-2.30	122.34	124.45
17	F	203	BCR	C27-C26-C25	2.30	126.07	122.73
14	A	808	CLA	O2A-CGA-O1A	-2.30	117.78	123.59
14	A	834	CLA	CHB-C4A-NA	2.30	127.69	124.51
14	B	832	CLA	CHB-C4A-NA	2.30	127.69	124.51
15	B	842	PQN	C2M-C2-C3	-2.30	120.65	124.40
14	B	823	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
14	A	821	CLA	CHB-C4A-NA	2.30	127.69	124.51
14	A	827	CLA	O2A-CGA-O1A	-2.30	117.79	123.59
14	A	828	CLA	O2A-CGA-O1A	-2.30	117.79	123.59
19	M	101	LHG	C11-C10-C9	-2.30	102.77	114.42
17	A	850	BCR	C8-C7-C6	-2.30	120.75	127.20
14	L	206	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
17	B	845	BCR	C8-C7-C6	-2.30	120.76	127.20
14	B	809	CLA	CHB-C4A-NA	2.29	127.69	124.51
14	B	839	CLA	CMB-C2B-C3B	2.29	128.97	124.68
14	A	843	CLA	CHB-C4A-NA	2.29	127.68	124.51
14	A	819	CLA	CHD-C1D-ND	-2.29	122.35	124.45
14	A	812	CLA	CHB-C4A-NA	2.29	127.68	124.51
14	L	205	CLA	CHD-C1D-ND	-2.29	122.35	124.45
19	A	855	LHG	C11-C10-C9	-2.29	102.80	114.42
17	A	852	BCR	C24-C23-C22	-2.29	122.78	126.23
14	A	817	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
14	A	857	CLA	O2D-CGD-CBD	2.29	115.33	111.27
14	A	836	CLA	CMB-C2B-C3B	2.29	128.96	124.68
14	A	821	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
14	A	805	CLA	O2A-CGA-O1A	-2.29	117.82	123.59
18	A	856	LMG	O1-C7-C8	-2.28	105.39	110.90
14	K	101	CLA	C1B-CHB-C4A	-2.28	125.59	130.12
14	B	806	CLA	CMB-C2B-C3B	2.28	128.95	124.68
14	F	201	CLA	CHD-C1D-ND	-2.28	122.36	124.45
14	B	805	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
14	A	822	CLA	CHB-C4A-NA	2.28	127.66	124.51
14	A	808	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
15	B	842	PQN	C2M-C2-C1	2.28	120.04	116.27
14	B	826	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
14	A	813	CLA	CHB-C4A-NA	2.28	127.66	124.51
14	A	837	CLA	CHB-C4A-NA	2.28	127.66	124.51
22	L	207	DGD	C3G-C2G-C1G	-2.27	106.41	111.79
14	K	101	CLA	O2A-CGA-O1A	-2.27	117.63	123.30
14	B	808	CLA	CMB-C2B-C1B	-2.27	124.97	128.46
14	A	803	CLA	CHD-C1D-ND	-2.27	122.36	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	816	CLA	CHB-C4A-NA	2.27	127.65	124.51
14	A	823	CLA	CHD-C1D-ND	-2.27	122.37	124.45
14	B	805	CLA	CHB-C4A-NA	2.27	127.65	124.51
14	L	205	CLA	CHB-C4A-NA	2.27	127.65	124.51
22	L	207	DGD	CDB-CCB-CBB	-2.27	102.92	114.42
14	A	805	CLA	CHB-C4A-NA	2.27	127.65	124.51
17	B	848	BCR	C27-C26-C25	2.27	126.02	122.73
14	A	829	CLA	CHD-C1D-ND	-2.26	122.37	124.45
17	B	843	BCR	C29-C30-C25	2.26	113.97	110.48
14	A	828	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
17	A	847	BCR	C11-C10-C9	-2.26	124.08	127.31
17	B	845	BCR	C15-C14-C13	-2.26	124.09	127.31
18	I	102	LMG	O2-C2-C1	-2.25	104.57	110.05
14	A	841	CLA	CHD-C1D-ND	-2.25	122.38	124.45
17	A	852	BCR	C38-C26-C25	-2.25	122.00	124.53
14	A	810	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
14	A	811	CLA	CHB-C4A-NA	2.25	127.62	124.51
14	A	818	CLA	C1B-CHB-C4A	-2.25	125.67	130.12
14	B	807	CLA	CHB-C4A-NA	2.25	127.62	124.51
14	A	844	CLA	C1B-CHB-C4A	-2.25	125.67	130.12
17	B	844	BCR	C16-C15-C14	-2.24	118.88	123.47
14	B	829	CLA	C1-C2-C3	-2.24	122.16	126.04
14	B	808	CLA	CHB-C4A-NA	2.24	127.61	124.51
14	J	102	CLA	CHB-C4A-NA	2.24	127.61	124.51
14	A	843	CLA	CHD-C1D-ND	-2.24	122.39	124.45
14	F	202	CLA	CMB-C2B-C3B	2.24	128.87	124.68
17	A	849	BCR	C8-C7-C6	-2.24	120.91	127.20
14	A	823	CLA	O2A-CGA-O1A	-2.24	117.94	123.59
14	X	1701	CLA	CHD-C1D-ND	-2.24	122.40	124.45
18	I	102	LMG	O1-C7-C8	-2.24	105.50	110.90
17	B	845	BCR	C38-C26-C25	-2.24	122.02	124.53
21	L	202	LMT	C1'-O5'-C5'	-2.24	109.30	113.69
19	A	854	LHG	C11-C10-C9	-2.23	103.08	114.42
14	B	825	CLA	C1B-CHB-C4A	-2.23	125.69	130.12
14	A	809	CLA	O2A-CGA-O1A	-2.23	117.97	123.59
17	B	845	BCR	C27-C26-C25	2.23	125.97	122.73
17	B	843	BCR	C33-C5-C6	-2.23	122.03	124.53
17	B	846	BCR	C33-C5-C6	-2.23	122.03	124.53
14	B	837	CLA	C1B-CHB-C4A	-2.22	125.71	130.12
14	A	844	CLA	C1-C2-C3	-2.22	122.19	126.04
14	A	836	CLA	CHB-C4A-NA	2.22	127.59	124.51
14	M	102	CLA	CHB-C4A-NA	2.22	127.59	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	853	LMG	O3-C3-C2	-2.22	105.21	110.35
17	B	847	BCR	C10-C11-C12	-2.22	116.28	123.22
17	J	103	BCR	C38-C26-C25	-2.22	122.03	124.53
17	A	852	BCR	C27-C26-C25	2.22	125.95	122.73
17	B	846	BCR	C37-C22-C21	-2.22	119.82	122.92
15	B	842	PQN	C10-C1-C2	2.22	122.11	118.95
14	A	835	CLA	C2D-C1D-ND	-2.22	108.47	110.10
19	A	854	LHG	C20-C19-C18	-2.22	103.17	114.42
14	L	204	CLA	C1-C2-C3	-2.22	122.21	126.04
14	B	830	CLA	CHD-C1D-ND	-2.21	122.42	124.45
17	I	103	BCR	C11-C10-C9	-2.21	124.15	127.31
17	A	851	BCR	C8-C7-C6	-2.21	120.99	127.20
14	B	838	CLA	C1B-CHB-C4A	-2.21	125.73	130.12
14	B	837	CLA	O2D-CGD-CBD	2.21	115.20	111.27
14	B	804	CLA	O2A-CGA-O1A	-2.21	118.01	123.59
14	B	836	CLA	CHB-C4A-NA	2.21	127.57	124.51
14	A	857	CLA	O2A-CGA-O1A	-2.21	118.01	123.59
14	B	819	CLA	CHD-C1D-ND	-2.21	122.42	124.45
14	B	827	CLA	O1D-CGD-CBD	2.21	129.00	124.48
14	B	820	CLA	CHB-C4A-NA	2.20	127.56	124.51
14	A	838	CLA	C1B-CHB-C4A	-2.20	125.75	130.12
14	A	805	CLA	C1-C2-C3	-2.20	122.23	126.04
14	B	803	CLA	CHD-C1D-ND	-2.20	122.43	124.45
17	A	851	BCR	C27-C26-C25	2.20	125.93	122.73
17	B	848	BCR	C8-C7-C6	-2.20	121.02	127.20
14	B	814	CLA	CMB-C2B-C3B	2.20	128.79	124.68
14	B	827	CLA	CHD-C1D-ND	-2.20	122.43	124.45
14	B	817	CLA	CHD-C1D-ND	-2.20	122.44	124.45
14	A	807	CLA	C1B-CHB-C4A	-2.20	125.77	130.12
15	A	845	PQN	C10-C1-C2	2.20	122.08	118.95
14	A	811	CLA	O2A-CGA-O1A	-2.19	117.83	123.30
17	B	844	BCR	C3-C4-C5	-2.19	110.16	114.08
17	L	201	BCR	C8-C7-C6	-2.19	121.05	127.20
18	A	856	LMG	O3-C3-C2	-2.19	105.29	110.35
14	A	825	CLA	O2A-CGA-O1A	-2.19	118.06	123.59
17	B	844	BCR	C27-C26-C25	2.19	125.91	122.73
14	B	841	CLA	CMB-C2B-C3B	2.19	128.77	124.68
14	A	819	CLA	O2A-CGA-O1A	-2.18	118.08	123.59
14	B	809	CLA	CAC-C3C-C4C	2.18	127.64	124.81
17	J	105	BCR	C24-C23-C22	-2.18	122.94	126.23
14	A	814	CLA	O2D-CGD-CBD	2.18	115.14	111.27
17	B	844	BCR	C35-C13-C12	2.18	121.51	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	A	848	BCR	C27-C26-C25	2.18	125.89	122.73
18	I	102	LMG	O3-C3-C2	-2.18	105.31	110.35
14	B	810	CLA	C2A-C1A-CHA	2.18	127.67	123.86
14	A	804	CLA	CHD-C1D-ND	-2.18	122.45	124.45
14	M	102	CLA	C1B-CHB-C4A	-2.17	125.81	130.12
17	I	103	BCR	C7-C8-C9	-2.17	122.95	126.23
14	B	835	CLA	CMB-C2B-C3B	2.17	128.74	124.68
14	B	841	CLA	O2D-CGD-CBD	2.17	115.13	111.27
18	I	102	LMG	O6-C5-C4	2.17	113.64	109.69
17	M	103	BCR	C8-C7-C6	-2.17	121.11	127.20
14	F	202	CLA	CHD-C1D-ND	-2.17	122.46	124.45
14	A	831	CLA	O2D-CGD-CBD	2.17	115.12	111.27
14	A	831	CLA	CHB-C4A-NA	2.17	127.51	124.51
18	B	849	LMG	C42-C41-C40	-2.17	103.42	114.42
18	B	849	LMG	O3-C3-C2	-2.17	105.34	110.35
14	B	828	CLA	CHB-C4A-NA	2.17	127.51	124.51
17	A	851	BCR	C11-C10-C9	-2.17	124.22	127.31
17	B	843	BCR	C15-C14-C13	-2.17	124.22	127.31
17	J	105	BCR	C33-C5-C6	-2.16	122.10	124.53
14	B	813	CLA	C1B-CHB-C4A	-2.16	125.83	130.12
17	A	851	BCR	C15-C14-C13	-2.16	124.22	127.31
14	A	808	CLA	O2D-CGD-CBD	2.16	115.11	111.27
15	B	842	PQN	O4-C4-C3	-2.16	117.08	120.56
14	A	803	CLA	CAA-C2A-C1A	-2.16	104.90	111.97
18	B	849	LMG	O2-C2-C1	-2.16	104.80	110.05
14	A	820	CLA	CHD-C1D-ND	-2.16	122.47	124.45
14	B	831	CLA	CHB-C4A-NA	2.16	127.50	124.51
17	A	848	BCR	C8-C7-C6	-2.16	121.14	127.20
14	B	811	CLA	O2D-CGD-CBD	2.16	115.10	111.27
14	M	102	CLA	C2D-C1D-ND	-2.16	108.51	110.10
14	A	840	CLA	CHB-C4A-NA	2.16	127.49	124.51
18	A	853	LMG	C1-O6-C5	-2.16	109.46	113.69
14	A	814	CLA	C1B-CHB-C4A	-2.15	125.85	130.12
17	J	103	BCR	C24-C23-C22	-2.15	122.98	126.23
14	A	813	CLA	C1B-CHB-C4A	-2.15	125.86	130.12
14	A	814	CLA	CMB-C2B-C3B	2.15	128.69	124.68
14	A	817	CLA	CHB-C4A-NA	2.15	127.48	124.51
14	A	842	CLA	CMB-C2B-C3B	2.15	128.69	124.68
13	A	801	CL0	CMB-C2B-C3B	2.14	128.69	124.68
22	L	207	DGD	CFB-CEB-CDB	-2.14	103.54	114.42
18	A	853	LMG	C1-C2-C3	-2.14	105.54	110.00
14	B	816	CLA	CHD-C1D-ND	-2.14	122.49	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	812	CLA	O2A-CGA-O1A	-2.14	117.97	123.30
14	A	810	CLA	O2A-CGA-O1A	-2.14	118.20	123.59
17	B	846	BCR	C8-C7-C6	-2.13	121.21	127.20
14	B	804	CLA	O2D-CGD-CBD	2.13	115.06	111.27
14	B	829	CLA	CHD-C1D-ND	-2.13	122.49	124.45
14	A	821	CLA	CHD-C1D-ND	-2.13	122.50	124.45
14	B	812	CLA	CHD-C1D-ND	-2.13	122.50	124.45
14	M	102	CLA	CMB-C2B-C3B	2.13	128.67	124.68
14	A	811	CLA	C1B-CHB-C4A	-2.13	125.90	130.12
17	J	104	BCR	C8-C7-C6	-2.13	121.22	127.20
17	L	208	BCR	C15-C14-C13	-2.13	124.27	127.31
14	F	201	CLA	C1-C2-C3	-2.13	122.36	126.04
18	A	856	LMG	O2-C2-C1	-2.13	104.87	110.05
21	L	202	LMT	C2'-C3'-C4'	2.13	114.54	109.68
15	A	845	PQN	O4-C4-C3	-2.13	117.14	120.56
14	B	838	CLA	CHD-C1D-ND	-2.13	122.50	124.45
14	B	841	CLA	CHD-C1D-ND	-2.13	122.50	124.45
14	B	814	CLA	O2A-CGA-O1A	-2.12	118.23	123.59
14	B	831	CLA	CHD-C1D-ND	-2.12	122.50	124.45
14	B	822	CLA	C1B-CHB-C4A	-2.12	125.92	130.12
14	A	840	CLA	CHD-C1D-ND	-2.12	122.51	124.45
14	B	818	CLA	CHD-C1D-ND	-2.11	122.51	124.45
14	B	822	CLA	CHD-C1D-ND	-2.11	122.51	124.45
17	L	208	BCR	C24-C23-C22	-2.11	123.04	126.23
14	A	832	CLA	CHD-C1D-ND	-2.11	122.51	124.45
14	B	827	CLA	CHB-C4A-NA	2.11	127.43	124.51
14	B	839	CLA	CHB-C4A-NA	2.11	127.43	124.51
14	A	830	CLA	C1B-CHB-C4A	-2.11	125.94	130.12
14	A	827	CLA	CHD-C1D-ND	-2.11	122.52	124.45
14	B	804	CLA	CHD-C1D-ND	-2.11	122.52	124.45
14	L	206	CLA	O2D-CGD-CBD	2.11	115.02	111.27
17	B	843	BCR	C8-C7-C6	-2.11	121.28	127.20
14	A	817	CLA	O2A-CGA-O1A	-2.11	118.28	123.59
14	B	821	CLA	CHD-C1D-ND	-2.11	122.52	124.45
14	B	804	CLA	C1-C2-C3	-2.10	122.40	126.04
14	A	814	CLA	O2A-CGA-O1A	-2.10	118.28	123.59
14	K	102	CLA	CHD-C1D-ND	-2.10	122.52	124.45
14	B	815	CLA	C2D-C1D-ND	-2.10	108.56	110.10
14	A	833	CLA	CHB-C4A-NA	2.10	127.42	124.51
14	A	811	CLA	O2D-CGD-CBD	2.10	115.00	111.27
14	A	815	CLA	CHB-C4A-NA	2.09	127.41	124.51
14	B	828	CLA	C2D-C1D-ND	-2.09	108.56	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	832	CLA	CHD-C1D-ND	-2.09	122.53	124.45
14	B	835	CLA	O2A-CGA-O1A	-2.09	118.09	123.30
14	A	844	CLA	O2A-CGA-O1A	-2.09	118.32	123.59
19	A	854	LHG	C27-C26-C25	-2.09	103.83	114.42
17	J	104	BCR	C38-C26-C25	-2.09	122.19	124.53
14	A	818	CLA	O2D-CGD-CBD	2.08	114.97	111.27
14	A	840	CLA	CMB-C2B-C3B	2.08	128.57	124.68
14	B	806	CLA	CHD-C1D-ND	-2.08	122.54	124.45
14	A	820	CLA	CHB-C4A-NA	2.08	127.39	124.51
17	B	844	BCR	C24-C23-C22	-2.08	123.09	126.23
14	B	841	CLA	CHB-C4A-NA	2.08	127.39	124.51
17	J	103	BCR	C8-C7-C6	-2.08	121.36	127.20
14	A	824	CLA	CHB-C4A-NA	2.08	127.39	124.51
14	X	1701	CLA	O2D-CGD-CBD	2.08	114.96	111.27
17	J	104	BCR	C11-C10-C9	-2.08	124.34	127.31
14	B	839	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
14	B	838	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
22	L	207	DGD	CBB-CAB-C9B	-2.07	103.89	114.42
17	A	850	BCR	C38-C26-C25	-2.07	122.20	124.53
14	A	829	CLA	C1B-CHB-C4A	-2.07	126.01	130.12
19	M	101	LHG	C18-C17-C16	-2.07	103.91	114.42
17	B	843	BCR	C11-C10-C9	-2.07	124.35	127.31
17	J	105	BCR	C3-C4-C5	-2.07	110.38	114.08
17	I	101	BCR	C8-C7-C6	-2.07	121.39	127.20
14	A	806	CLA	O1D-CGD-CBD	2.07	128.72	124.48
14	A	834	CLA	O2D-CGD-CBD	2.07	114.94	111.27
14	A	841	CLA	CHB-C4A-NA	2.07	127.37	124.51
14	B	806	CLA	C1B-CHB-C4A	-2.07	126.02	130.12
17	A	847	BCR	C8-C7-C6	-2.07	121.39	127.20
14	B	811	CLA	CHD-C1D-ND	-2.07	122.55	124.45
22	L	207	DGD	O6D-C5D-C6D	-2.07	102.49	106.67
22	L	207	DGD	O6E-C1E-O5D	-2.07	105.08	109.97
14	B	829	CLA	C2D-C1D-ND	-2.06	108.59	110.10
17	M	103	BCR	C35-C13-C14	-2.06	120.04	122.92
17	L	208	BCR	C27-C26-C25	2.06	125.72	122.73
14	A	809	CLA	CHD-C1D-ND	-2.06	122.56	124.45
14	B	819	CLA	O2D-CGD-CBD	2.06	114.92	111.27
14	A	839	CLA	CHD-C1D-ND	-2.06	122.56	124.45
14	A	805	CLA	C1B-CHB-C4A	-2.05	126.05	130.12
17	B	844	BCR	C15-C16-C17	-2.05	119.27	123.47
18	A	853	LMG	O2-C2-C1	-2.05	105.06	110.05
14	B	837	CLA	C1-C2-C3	-2.05	122.49	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	840	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
17	J	103	BCR	C27-C26-C25	2.05	125.71	122.73
14	F	201	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
14	A	806	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
14	A	831	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
14	A	826	CLA	CHD-C1D-ND	-2.05	122.57	124.45
14	B	840	CLA	CHD-C1D-ND	-2.05	122.57	124.45
18	B	849	LMG	O1-C1-C2	-2.05	105.11	108.30
14	A	806	CLA	CHD-C1D-ND	-2.05	122.57	124.45
14	A	815	CLA	CHD-C1D-ND	-2.05	122.57	124.45
14	A	813	CLA	CMB-C2B-C3B	2.05	128.50	124.68
14	A	829	CLA	CHB-C4A-NA	2.05	127.34	124.51
22	L	207	DGD	C5B-C4B-C3B	-2.04	104.05	114.42
17	A	849	BCR	C16-C15-C14	-2.04	119.29	123.47
17	J	105	BCR	C15-C14-C13	-2.04	124.39	127.31
22	L	207	DGD	O3E-C3E-C2E	-2.04	105.63	110.35
14	L	205	CLA	C1-C2-C3	-2.04	122.52	126.04
17	B	851	BCR	C8-C7-C6	-2.04	121.48	127.20
14	B	808	CLA	CMB-C2B-C3B	2.04	128.49	124.68
14	J	101	CLA	O2A-CGA-O1A	-2.04	118.22	123.30
18	A	856	LMG	O1-C1-C2	-2.04	105.12	108.30
14	A	833	CLA	C1B-CHB-C4A	-2.04	126.08	130.12
14	B	810	CLA	O2A-CGA-O1A	-2.04	118.45	123.59
17	L	201	BCR	C38-C26-C25	-2.04	122.24	124.53
14	A	836	CLA	CHD-C1D-ND	-2.04	122.58	124.45
14	A	839	CLA	O2D-CGD-CBD	2.03	114.88	111.27
14	B	817	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
14	B	833	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
14	M	102	CLA	O2A-CGA-O1A	-2.03	118.23	123.30
14	B	823	CLA	CMB-C2B-C3B	2.03	128.48	124.68
14	B	814	CLA	CHD-C1D-ND	-2.03	122.59	124.45
19	M	101	LHG	C27-C26-C25	-2.03	104.12	114.42
14	A	833	CLA	CHD-C1D-ND	-2.03	122.59	124.45
14	B	834	CLA	O2A-CGA-O1A	-2.03	118.25	123.30
14	A	816	CLA	CHD-C1D-ND	-2.03	122.59	124.45
17	J	105	BCR	C11-C10-C9	-2.03	124.42	127.31
14	L	205	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
17	B	851	BCR	C15-C14-C13	-2.03	124.42	127.31
22	L	207	DGD	O6D-C1D-C2D	2.02	114.63	110.35
17	F	203	BCR	C38-C26-C25	-2.02	122.26	124.53
14	B	821	CLA	O2A-CGA-O1A	-2.02	118.26	123.30
17	B	846	BCR	C27-C26-C25	2.02	125.67	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	845	PQN	C5-C4-C3	2.02	122.13	118.42
14	B	824	CLA	C4-C3-C5	2.02	118.67	115.27
14	A	808	CLA	CHD-C1D-ND	-2.02	122.60	124.45
14	A	844	CLA	CHD-C1D-ND	-2.02	122.60	124.45
14	A	839	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
14	B	813	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
14	B	840	CLA	O2D-CGD-CBD	2.01	114.85	111.27
14	B	831	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
17	J	104	BCR	C27-C26-C25	2.01	125.65	122.73
17	M	103	BCR	C16-C15-C14	-2.01	119.36	123.47
14	A	822	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
14	A	828	CLA	CHD-C1D-ND	-2.01	122.61	124.45
14	A	841	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
14	A	822	CLA	CHD-C1D-ND	-2.00	122.61	124.45
17	F	203	BCR	C8-C7-C6	-2.00	121.58	127.20
14	L	206	CLA	CHD-C1D-ND	-2.00	122.61	124.45
14	A	824	CLA	O2A-CGA-O1A	-2.00	118.54	123.59

All (98) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
13	A	801	CL0	ND
13	A	801	CL0	NC
13	A	801	CL0	NA
14	A	802	CLA	ND
14	A	803	CLA	ND
14	A	804	CLA	ND
14	A	805	CLA	ND
14	A	806	CLA	ND
14	A	807	CLA	ND
14	A	808	CLA	ND
14	A	809	CLA	ND
14	A	810	CLA	ND
14	A	811	CLA	ND
14	A	812	CLA	ND
14	A	813	CLA	ND
14	A	814	CLA	ND
14	A	815	CLA	ND
14	A	816	CLA	ND
14	A	817	CLA	ND
14	A	818	CLA	ND
14	A	819	CLA	ND

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Mol	Chain	Res	Type	Atom
14	A	820	CLA	ND
14	A	821	CLA	ND
14	A	822	CLA	ND
14	A	823	CLA	ND
14	A	824	CLA	ND
14	A	825	CLA	ND
14	A	826	CLA	ND
14	A	827	CLA	ND
14	A	828	CLA	ND
14	A	829	CLA	ND
14	A	830	CLA	ND
14	A	831	CLA	ND
14	A	832	CLA	ND
14	A	833	CLA	ND
14	A	834	CLA	ND
14	A	835	CLA	ND
14	A	836	CLA	ND
14	A	837	CLA	ND
14	A	838	CLA	ND
14	A	839	CLA	ND
14	A	840	CLA	ND
14	A	841	CLA	ND
14	A	842	CLA	ND
14	A	843	CLA	ND
14	A	844	CLA	ND
14	A	857	CLA	ND
14	B	802	CLA	ND
14	B	803	CLA	ND
14	B	804	CLA	ND
14	B	805	CLA	ND
14	B	806	CLA	ND
14	B	807	CLA	ND
14	B	808	CLA	ND
14	B	809	CLA	ND
14	B	810	CLA	ND
14	B	811	CLA	ND
14	B	812	CLA	ND
14	B	813	CLA	ND
14	B	814	CLA	ND
14	B	815	CLA	ND
14	B	816	CLA	ND
14	B	817	CLA	ND

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Mol	Chain	Res	Type	Atom
14	B	818	CLA	ND
14	B	819	CLA	ND
14	B	820	CLA	ND
14	B	821	CLA	ND
14	B	822	CLA	ND
14	B	823	CLA	ND
14	B	824	CLA	ND
14	B	825	CLA	ND
14	B	826	CLA	ND
14	B	827	CLA	ND
14	B	828	CLA	ND
14	B	829	CLA	ND
14	B	830	CLA	ND
14	B	831	CLA	ND
14	B	832	CLA	ND
14	B	833	CLA	ND
14	B	834	CLA	ND
14	B	835	CLA	ND
14	B	836	CLA	ND
14	B	837	CLA	ND
14	B	838	CLA	ND
14	B	839	CLA	ND
14	B	840	CLA	ND
14	B	841	CLA	ND
14	F	201	CLA	ND
14	F	202	CLA	ND
14	J	101	CLA	ND
14	J	102	CLA	ND
14	K	101	CLA	ND
14	K	102	CLA	ND
14	L	204	CLA	ND
14	L	205	CLA	ND
14	L	206	CLA	ND
14	M	102	CLA	ND
14	X	1701	CLA	ND

All (1325) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
13	A	801	CL0	CHA-CBD-CGD-O1D
13	A	801	CL0	CHA-CBD-CGD-O2D
13	A	801	CL0	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
14	A	804	CLA	C1A-C2A-CAA-CBA
14	A	804	CLA	C3A-C2A-CAA-CBA
14	A	806	CLA	C1A-C2A-CAA-CBA
14	A	806	CLA	C2-C1-O2A-CGA
14	A	806	CLA	CAD-CBD-CGD-O1D
14	A	806	CLA	CAD-CBD-CGD-O2D
14	A	807	CLA	CHA-CBD-CGD-O1D
14	A	807	CLA	CHA-CBD-CGD-O2D
14	A	807	CLA	CBD-CGD-O2D-CED
14	A	808	CLA	C2-C3-C5-C6
14	A	808	CLA	C4-C3-C5-C6
14	A	809	CLA	C1A-C2A-CAA-CBA
14	A	809	CLA	C3A-C2A-CAA-CBA
14	A	809	CLA	CHA-CBD-CGD-O1D
14	A	809	CLA	CHA-CBD-CGD-O2D
14	A	811	CLA	C1A-C2A-CAA-CBA
14	A	811	CLA	C3A-C2A-CAA-CBA
14	A	816	CLA	CHA-CBD-CGD-O1D
14	A	816	CLA	CHA-CBD-CGD-O2D
14	A	816	CLA	CAD-CBD-CGD-O1D
14	A	816	CLA	CAD-CBD-CGD-O2D
14	A	817	CLA	CBD-CGD-O2D-CED
14	A	819	CLA	C1A-C2A-CAA-CBA
14	A	819	CLA	C3A-C2A-CAA-CBA
14	A	820	CLA	C1A-C2A-CAA-CBA
14	A	820	CLA	C3A-C2A-CAA-CBA
14	A	823	CLA	C3A-C2A-CAA-CBA
14	A	823	CLA	CHA-CBD-CGD-O1D
14	A	823	CLA	CHA-CBD-CGD-O2D
14	A	823	CLA	CAD-CBD-CGD-O1D
14	A	824	CLA	C3A-C2A-CAA-CBA
14	A	824	CLA	CHA-CBD-CGD-O1D
14	A	824	CLA	CHA-CBD-CGD-O2D
14	A	825	CLA	CHA-CBD-CGD-O1D
14	A	825	CLA	CHA-CBD-CGD-O2D
14	A	826	CLA	C1A-C2A-CAA-CBA
14	A	828	CLA	C1A-C2A-CAA-CBA
14	A	829	CLA	CHA-CBD-CGD-O1D
14	A	829	CLA	CHA-CBD-CGD-O2D
14	A	829	CLA	CBD-CGD-O2D-CED
14	A	832	CLA	C1A-C2A-CAA-CBA
14	A	832	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
14	A	835	CLA	C1A-C2A-CAA-CBA
14	A	835	CLA	C3A-C2A-CAA-CBA
14	A	836	CLA	CHA-CBD-CGD-O1D
14	A	836	CLA	CHA-CBD-CGD-O2D
14	A	841	CLA	CBD-CGD-O2D-CED
14	A	842	CLA	C1A-C2A-CAA-CBA
14	A	842	CLA	C3A-C2A-CAA-CBA
14	A	844	CLA	CBD-CGD-O2D-CED
14	A	844	CLA	O1D-CGD-O2D-CED
14	A	857	CLA	CAD-CBD-CGD-O1D
14	A	857	CLA	CAD-CBD-CGD-O2D
14	A	857	CLA	O2A-C1-C2-C3
14	A	857	CLA	C2-C3-C5-C6
14	A	857	CLA	C4-C3-C5-C6
14	B	802	CLA	CBD-CGD-O2D-CED
14	B	803	CLA	CBD-CGD-O2D-CED
14	B	805	CLA	C1A-C2A-CAA-CBA
14	B	805	CLA	C3A-C2A-CAA-CBA
14	B	808	CLA	CHA-CBD-CGD-O1D
14	B	808	CLA	CHA-CBD-CGD-O2D
14	B	814	CLA	CHA-CBD-CGD-O1D
14	B	814	CLA	CHA-CBD-CGD-O2D
14	B	814	CLA	CAD-CBD-CGD-O1D
14	B	817	CLA	C3A-C2A-CAA-CBA
14	B	818	CLA	C1A-C2A-CAA-CBA
14	B	818	CLA	C3A-C2A-CAA-CBA
14	B	820	CLA	CHA-CBD-CGD-O1D
14	B	820	CLA	CHA-CBD-CGD-O2D
14	B	820	CLA	CAD-CBD-CGD-O1D
14	B	820	CLA	CAD-CBD-CGD-O2D
14	B	821	CLA	CHA-CBD-CGD-O1D
14	B	821	CLA	CHA-CBD-CGD-O2D
14	B	823	CLA	CHA-CBD-CGD-O1D
14	B	823	CLA	CHA-CBD-CGD-O2D
14	B	824	CLA	C2-C3-C5-C6
14	B	824	CLA	C4-C3-C5-C6
14	B	825	CLA	CHA-CBD-CGD-O1D
14	B	825	CLA	CHA-CBD-CGD-O2D
14	B	827	CLA	C6-C7-C8-C10
14	B	828	CLA	C1A-C2A-CAA-CBA
14	B	828	CLA	C3A-C2A-CAA-CBA
14	B	830	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
14	B	830	CLA	CHA-CBD-CGD-O2D
14	B	830	CLA	CAD-CBD-CGD-O1D
14	B	830	CLA	CAD-CBD-CGD-O2D
14	B	831	CLA	CBD-CGD-O2D-CED
14	B	835	CLA	C1A-C2A-CAA-CBA
14	B	835	CLA	C3A-C2A-CAA-CBA
14	B	835	CLA	CBD-CGD-O2D-CED
14	B	836	CLA	CBD-CGD-O2D-CED
14	B	838	CLA	CHA-CBD-CGD-O1D
14	B	838	CLA	CHA-CBD-CGD-O2D
14	B	841	CLA	C1A-C2A-CAA-CBA
14	B	841	CLA	C3A-C2A-CAA-CBA
14	F	201	CLA	CBD-CGD-O2D-CED
14	K	102	CLA	C1A-C2A-CAA-CBA
14	K	102	CLA	C3A-C2A-CAA-CBA
14	L	204	CLA	C1A-C2A-CAA-CBA
14	L	204	CLA	C3A-C2A-CAA-CBA
17	A	847	BCR	C16-C17-C18-C36
17	A	847	BCR	C37-C22-C23-C24
17	A	847	BCR	C23-C24-C25-C30
17	A	848	BCR	C1-C6-C7-C8
17	A	848	BCR	C7-C8-C9-C10
17	A	848	BCR	C11-C12-C13-C14
17	A	848	BCR	C11-C12-C13-C35
17	A	848	BCR	C16-C17-C18-C36
17	A	848	BCR	C36-C18-C19-C20
17	A	848	BCR	C18-C19-C20-C21
17	A	848	BCR	C20-C21-C22-C37
17	A	849	BCR	C1-C6-C7-C8
17	A	849	BCR	C11-C12-C13-C35
17	A	850	BCR	C16-C17-C18-C36
17	A	850	BCR	C20-C21-C22-C37
17	A	850	BCR	C22-C23-C24-C25
17	A	851	BCR	C7-C8-C9-C10
17	A	851	BCR	C7-C8-C9-C34
17	A	851	BCR	C16-C17-C18-C36
17	A	852	BCR	C7-C8-C9-C10
17	A	852	BCR	C7-C8-C9-C34
17	A	852	BCR	C11-C10-C9-C8
17	A	852	BCR	C10-C11-C12-C13
17	A	852	BCR	C11-C12-C13-C14
17	A	852	BCR	C11-C12-C13-C35

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Mol	Chain	Res	Type	Atoms
17	A	852	BCR	C18-C19-C20-C21
17	A	852	BCR	C20-C21-C22-C23
17	A	852	BCR	C20-C21-C22-C37
17	A	852	BCR	C21-C22-C23-C24
17	A	852	BCR	C37-C22-C23-C24
17	B	843	BCR	C18-C19-C20-C21
17	B	843	BCR	C37-C22-C23-C24
17	B	844	BCR	C6-C7-C8-C9
17	B	844	BCR	C11-C10-C9-C8
17	B	844	BCR	C10-C11-C12-C13
17	B	844	BCR	C16-C17-C18-C36
17	B	844	BCR	C21-C22-C23-C24
17	B	846	BCR	C6-C7-C8-C9
17	B	846	BCR	C7-C8-C9-C34
17	B	846	BCR	C11-C12-C13-C35
17	B	846	BCR	C20-C21-C22-C37
17	B	846	BCR	C22-C23-C24-C25
17	B	846	BCR	C23-C24-C25-C26
17	B	847	BCR	C10-C11-C12-C13
17	B	847	BCR	C11-C12-C13-C35
17	B	847	BCR	C36-C18-C19-C20
17	B	847	BCR	C37-C22-C23-C24
17	B	848	BCR	C20-C21-C22-C37
17	B	851	BCR	C11-C12-C13-C35
17	B	851	BCR	C37-C22-C23-C24
17	F	203	BCR	C7-C8-C9-C34
17	F	203	BCR	C16-C17-C18-C36
17	F	203	BCR	C23-C24-C25-C30
17	I	101	BCR	C7-C8-C9-C34
17	I	101	BCR	C11-C12-C13-C35
17	I	101	BCR	C37-C22-C23-C24
17	I	103	BCR	C1-C6-C7-C8
17	I	103	BCR	C7-C8-C9-C10
17	I	103	BCR	C11-C10-C9-C34
17	I	103	BCR	C11-C12-C13-C14
17	I	103	BCR	C11-C12-C13-C35
17	I	103	BCR	C37-C22-C23-C24
17	I	103	BCR	C23-C24-C25-C26
17	I	103	BCR	C23-C24-C25-C30
17	J	103	BCR	C11-C12-C13-C14
17	J	103	BCR	C11-C12-C13-C35
17	J	103	BCR	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
17	J	103	BCR	C16-C17-C18-C36
17	J	103	BCR	C36-C18-C19-C20
17	J	103	BCR	C37-C22-C23-C24
17	J	104	BCR	C1-C6-C7-C8
17	J	104	BCR	C5-C6-C7-C8
17	J	104	BCR	C6-C7-C8-C9
17	J	104	BCR	C11-C12-C13-C14
17	J	104	BCR	C11-C12-C13-C35
17	J	104	BCR	C20-C21-C22-C23
17	J	104	BCR	C22-C23-C24-C25
17	J	105	BCR	C1-C6-C7-C8
17	J	105	BCR	C7-C8-C9-C10
17	J	105	BCR	C7-C8-C9-C34
17	J	105	BCR	C22-C23-C24-C25
17	L	201	BCR	C6-C7-C8-C9
17	L	201	BCR	C11-C12-C13-C35
17	L	201	BCR	C22-C23-C24-C25
17	L	208	BCR	C6-C7-C8-C9
17	L	208	BCR	C7-C8-C9-C10
17	L	208	BCR	C7-C8-C9-C34
17	L	208	BCR	C11-C12-C13-C35
17	L	208	BCR	C16-C17-C18-C36
17	M	103	BCR	C5-C6-C7-C8
17	M	103	BCR	C7-C8-C9-C10
17	M	103	BCR	C7-C8-C9-C34
17	M	103	BCR	C11-C12-C13-C35
17	M	103	BCR	C16-C17-C18-C19
17	M	103	BCR	C16-C17-C18-C36
17	M	103	BCR	C36-C18-C19-C20
18	A	853	LMG	O9-C10-O7-C8
18	A	856	LMG	O6-C1-O1-C7
18	A	856	LMG	O9-C10-O7-C8
18	B	849	LMG	C2-C1-O1-C7
18	B	849	LMG	O6-C1-O1-C7
19	A	854	LHG	C3-O3-P-O5
19	A	855	LHG	C1-C2-C3-O3
19	A	855	LHG	C3-O3-P-O5
19	B	850	LHG	O1-C1-C2-C3
19	B	850	LHG	C4-O6-P-O4
19	B	850	LHG	C4-O6-P-O5
19	B	850	LHG	O9-C7-O7-C5
19	B	850	LHG	C8-C7-O7-C5

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Mol	Chain	Res	Type	Atoms
19	M	101	LHG	C3-O3-P-O4
19	M	101	LHG	C3-O3-P-O5
19	M	101	LHG	C3-O3-P-O6
19	M	101	LHG	C4-O6-P-O3
19	M	101	LHG	C4-O6-P-O5
21	L	202	LMT	O5'-C1'-O1'-C1
22	L	207	DGD	C2B-C1B-O2G-C2G
22	L	207	DGD	O6D-C1D-O3G-C3G
22	L	207	DGD	C2E-C1E-O5D-C6D
22	L	207	DGD	O6E-C1E-O5D-C6D
14	B	811	CLA	O1D-CGD-O2D-CED
14	B	812	CLA	O1D-CGD-O2D-CED
14	B	831	CLA	O1D-CGD-O2D-CED
14	L	204	CLA	O1D-CGD-O2D-CED
13	A	801	CL0	O1D-CGD-O2D-CED
14	A	806	CLA	O1D-CGD-O2D-CED
14	A	807	CLA	O1D-CGD-O2D-CED
14	A	830	CLA	O1D-CGD-O2D-CED
14	A	841	CLA	O1D-CGD-O2D-CED
14	B	802	CLA	O1D-CGD-O2D-CED
14	B	803	CLA	O1D-CGD-O2D-CED
14	B	815	CLA	O1D-CGD-O2D-CED
14	B	822	CLA	O1D-CGD-O2D-CED
14	B	833	CLA	O1D-CGD-O2D-CED
14	A	803	CLA	CBD-CGD-O2D-CED
14	A	806	CLA	CBD-CGD-O2D-CED
14	A	819	CLA	CBD-CGD-O2D-CED
14	A	822	CLA	CBD-CGD-O2D-CED
14	A	823	CLA	CBD-CGD-O2D-CED
14	A	826	CLA	CBD-CGD-O2D-CED
14	A	830	CLA	CBD-CGD-O2D-CED
14	A	838	CLA	CBD-CGD-O2D-CED
14	A	842	CLA	CBD-CGD-O2D-CED
14	B	805	CLA	CBD-CGD-O2D-CED
14	B	810	CLA	CBD-CGD-O2D-CED
14	B	811	CLA	CBD-CGD-O2D-CED
14	B	812	CLA	CBD-CGD-O2D-CED
14	B	814	CLA	CBD-CGD-O2D-CED
14	B	815	CLA	CBD-CGD-O2D-CED
14	B	819	CLA	CBD-CGD-O2D-CED
14	B	821	CLA	CBD-CGD-O2D-CED
14	B	822	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
14	B	833	CLA	CBD-CGD-O2D-CED
14	B	834	CLA	CBD-CGD-O2D-CED
14	L	204	CLA	CBD-CGD-O2D-CED
14	M	102	CLA	CBD-CGD-O2D-CED
14	X	1701	CLA	CBD-CGD-O2D-CED
14	A	817	CLA	O1A-CGA-O2A-C1
14	A	820	CLA	O1A-CGA-O2A-C1
19	M	101	LHG	O10-C23-O8-C6
14	A	817	CLA	O1D-CGD-O2D-CED
14	A	823	CLA	O1D-CGD-O2D-CED
14	A	829	CLA	O1D-CGD-O2D-CED
14	B	819	CLA	O1D-CGD-O2D-CED
14	B	834	CLA	O1D-CGD-O2D-CED
14	B	835	CLA	O1D-CGD-O2D-CED
14	M	102	CLA	O1D-CGD-O2D-CED
14	A	844	CLA	C4C-C3C-CAC-CBC
14	A	819	CLA	O1D-CGD-O2D-CED
14	A	838	CLA	O1D-CGD-O2D-CED
14	B	836	CLA	O1D-CGD-O2D-CED
14	F	201	CLA	O1D-CGD-O2D-CED
14	A	817	CLA	CBA-CGA-O2A-C1
14	A	820	CLA	CBA-CGA-O2A-C1
19	M	101	LHG	C24-C23-O8-C6
14	A	815	CLA	CBD-CGD-O2D-CED
14	A	843	CLA	CBD-CGD-O2D-CED
14	B	809	CLA	CBD-CGD-O2D-CED
14	B	820	CLA	CBD-CGD-O2D-CED
14	B	824	CLA	CBD-CGD-O2D-CED
14	B	828	CLA	CBD-CGD-O2D-CED
14	B	830	CLA	CBD-CGD-O2D-CED
13	A	801	CL0	O1A-CGA-O2A-C1
14	A	806	CLA	O1A-CGA-O2A-C1
14	A	808	CLA	O1A-CGA-O2A-C1
14	A	812	CLA	O1A-CGA-O2A-C1
14	A	825	CLA	O1A-CGA-O2A-C1
14	B	820	CLA	O1A-CGA-O2A-C1
14	L	204	CLA	O1A-CGA-O2A-C1
22	L	207	DGD	O1A-C1A-O1G-C1G
14	B	821	CLA	O1D-CGD-O2D-CED
18	I	102	LMG	O6-C5-C6-O5
14	A	838	CLA	O1A-CGA-O2A-C1
14	A	844	CLA	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
14	A	802	CLA	C3-C5-C6-C7
14	A	813	CLA	C3-C5-C6-C7
14	A	819	CLA	C3-C5-C6-C7
14	A	830	CLA	C3-C5-C6-C7
14	B	802	CLA	C3-C5-C6-C7
14	B	819	CLA	C3-C5-C6-C7
14	B	840	CLA	C3-C5-C6-C7
14	A	806	CLA	CBA-CGA-O2A-C1
14	A	808	CLA	CBA-CGA-O2A-C1
14	A	809	CLA	CBA-CGA-O2A-C1
14	A	812	CLA	CBA-CGA-O2A-C1
22	L	207	DGD	O6E-C5E-C6E-O5E
18	A	856	LMG	C11-C10-O7-C8
14	B	805	CLA	O1D-CGD-O2D-CED
14	A	857	CLA	CBD-CGD-O2D-CED
14	A	830	CLA	C2A-CAA-CBA-CGA
14	A	857	CLA	C2A-CAA-CBA-CGA
14	B	804	CLA	C2A-CAA-CBA-CGA
14	B	822	CLA	C2A-CAA-CBA-CGA
14	B	828	CLA	C2A-CAA-CBA-CGA
14	B	840	CLA	C2A-CAA-CBA-CGA
14	B	826	CLA	C3-C5-C6-C7
14	B	832	CLA	C3-C5-C6-C7
13	A	801	CL0	CBA-CGA-O2A-C1
14	A	805	CLA	CBA-CGA-O2A-C1
14	A	822	CLA	CBA-CGA-O2A-C1
14	A	825	CLA	CBA-CGA-O2A-C1
14	A	838	CLA	CBA-CGA-O2A-C1
14	B	820	CLA	CBA-CGA-O2A-C1
14	B	831	CLA	CBA-CGA-O2A-C1
14	L	204	CLA	CBA-CGA-O2A-C1
22	L	207	DGD	C2A-C1A-O1G-C1G
14	B	810	CLA	O1D-CGD-O2D-CED
14	B	826	CLA	CBD-CGD-O2D-CED
14	A	803	CLA	O1D-CGD-O2D-CED
14	A	805	CLA	O1A-CGA-O2A-C1
14	A	822	CLA	O1A-CGA-O2A-C1
14	A	829	CLA	O1A-CGA-O2A-C1
14	A	844	CLA	O1A-CGA-O2A-C1
14	A	857	CLA	O1A-CGA-O2A-C1
18	I	102	LMG	C4-C5-C6-O5
14	A	811	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
14	B	807	CLA	CBD-CGD-O2D-CED
14	F	202	CLA	CBD-CGD-O2D-CED
14	A	826	CLA	O1D-CGD-O2D-CED
19	A	854	LHG	O2-C2-C3-O3
19	A	855	LHG	O2-C2-C3-O3
22	L	207	DGD	C4D-C5D-C6D-O5D
14	A	828	CLA	CBA-CGA-O2A-C1
14	A	844	CLA	CBA-CGA-O2A-C1
14	A	857	CLA	CBA-CGA-O2A-C1
14	B	817	CLA	CBA-CGA-O2A-C1
14	A	809	CLA	O1A-CGA-O2A-C1
14	A	822	CLA	O1D-CGD-O2D-CED
14	A	842	CLA	O1D-CGD-O2D-CED
18	A	853	LMG	C11-C10-O7-C8
14	A	814	CLA	CBD-CGD-O2D-CED
14	A	825	CLA	CBD-CGD-O2D-CED
18	B	849	LMG	C4-C5-C6-O5
14	A	828	CLA	O1A-CGA-O2A-C1
18	B	849	LMG	O6-C5-C6-O5
22	L	207	DGD	C4E-C5E-C6E-O5E
14	A	829	CLA	C3-C5-C6-C7
14	A	857	CLA	C3-C5-C6-C7
14	L	204	CLA	C3-C5-C6-C7
14	A	829	CLA	CBA-CGA-O2A-C1
14	B	817	CLA	O1A-CGA-O2A-C1
14	B	831	CLA	O1A-CGA-O2A-C1
19	A	854	LHG	O10-C23-O8-C6
15	A	845	PQN	C14-C13-C15-C16
15	A	845	PQN	C12-C13-C15-C16
14	B	813	CLA	CBD-CGD-O2D-CED
14	A	808	CLA	C2A-CAA-CBA-CGA
14	B	812	CLA	C2A-CAA-CBA-CGA
14	B	814	CLA	O1D-CGD-O2D-CED
14	X	1701	CLA	O1D-CGD-O2D-CED
21	L	202	LMT	O5'-C5'-C6'-O6'
14	A	842	CLA	CBA-CGA-O2A-C1
14	B	804	CLA	CBA-CGA-O2A-C1
14	B	823	CLA	CBD-CGD-O2D-CED
14	B	809	CLA	O1D-CGD-O2D-CED
14	A	815	CLA	O1D-CGD-O2D-CED
14	A	843	CLA	O1D-CGD-O2D-CED
21	L	202	LMT	C4'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
14	A	842	CLA	O1A-CGA-O2A-C1
14	B	818	CLA	O1A-CGA-O2A-C1
13	A	801	CL0	C3-C5-C6-C7
14	A	820	CLA	C3-C5-C6-C7
14	A	804	CLA	CBA-CGA-O2A-C1
14	A	807	CLA	CBA-CGA-O2A-C1
14	A	832	CLA	CBA-CGA-O2A-C1
14	A	834	CLA	CBA-CGA-O2A-C1
14	A	840	CLA	CBA-CGA-O2A-C1
14	B	818	CLA	CBA-CGA-O2A-C1
14	B	822	CLA	CBA-CGA-O2A-C1
14	B	826	CLA	CBA-CGA-O2A-C1
14	B	839	CLA	CBA-CGA-O2A-C1
18	I	102	LMG	C29-C28-O8-C9
19	A	854	LHG	C24-C23-O8-C6
14	A	837	CLA	CBD-CGD-O2D-CED
14	A	804	CLA	C10-C11-C12-C13
14	A	828	CLA	C10-C11-C12-C13
14	A	829	CLA	C13-C15-C16-C17
18	A	856	LMG	C2-C1-O1-C7
21	L	202	LMT	C2'-C1'-O1'-C1
14	B	804	CLA	O1A-CGA-O2A-C1
14	B	822	CLA	O1A-CGA-O2A-C1
14	A	822	CLA	C14-C13-C15-C16
14	B	826	CLA	C11-C10-C8-C9
14	B	829	CLA	C6-C7-C8-C9
14	B	840	CLA	C14-C13-C15-C16
15	A	845	PQN	C16-C17-C18-C19
14	B	820	CLA	O1D-CGD-O2D-CED
14	B	827	CLA	CBD-CGD-O2D-CED
17	I	103	BCR	C7-C8-C9-C34
17	J	105	BCR	C11-C12-C13-C35
17	B	843	BCR	C21-C22-C23-C24
17	I	103	BCR	C21-C22-C23-C24
19	A	854	LHG	C8-C7-O7-C5
14	A	840	CLA	O1A-CGA-O2A-C1
14	B	839	CLA	O1A-CGA-O2A-C1
14	B	803	CLA	C13-C15-C16-C17
21	L	202	LMT	C3'-C4'-O1B-C1B
14	B	817	CLA	C3-C5-C6-C7
14	B	840	CLA	C10-C11-C12-C13
14	B	840	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
18	A	856	LMG	C10-C11-C12-C13
17	B	848	BCR	C14-C15-C16-C17
13	A	801	CL0	C13-C15-C16-C17
14	A	814	CLA	C8-C10-C11-C12
14	A	834	CLA	C5-C6-C7-C8
14	A	843	CLA	C5-C6-C7-C8
14	B	827	CLA	C10-C11-C12-C13
15	B	842	PQN	C20-C21-C22-C23
15	B	842	PQN	C23-C25-C26-C27
19	B	850	LHG	O1-C1-C2-O2
14	A	802	CLA	C10-C11-C12-C13
14	A	809	CLA	C5-C6-C7-C8
14	A	827	CLA	C13-C15-C16-C17
14	A	833	CLA	C13-C15-C16-C17
14	B	803	CLA	C10-C11-C12-C13
14	B	813	CLA	C13-C15-C16-C17
14	B	828	CLA	C8-C10-C11-C12
14	B	837	CLA	C5-C6-C7-C8
14	B	830	CLA	O1D-CGD-O2D-CED
14	A	825	CLA	C5-C6-C7-C8
19	M	101	LHG	C7-C8-C9-C10
14	A	822	CLA	C12-C13-C15-C16
14	A	830	CLA	C11-C12-C13-C15
14	B	806	CLA	C6-C7-C8-C10
14	B	826	CLA	C6-C7-C8-C10
14	B	826	CLA	C11-C10-C8-C7
15	B	842	PQN	C21-C22-C23-C25
14	A	804	CLA	O1A-CGA-O2A-C1
14	B	824	CLA	O1D-CGD-O2D-CED
14	B	828	CLA	O1D-CGD-O2D-CED
14	A	807	CLA	C5-C6-C7-C8
14	B	807	CLA	C13-C15-C16-C17
14	B	827	CLA	C8-C10-C11-C12
14	B	827	CLA	C13-C15-C16-C17
14	B	825	CLA	CBA-CGA-O2A-C1
14	A	807	CLA	O1A-CGA-O2A-C1
14	B	826	CLA	O1A-CGA-O2A-C1
14	B	803	CLA	C15-C16-C17-C18
17	A	849	BCR	C18-C19-C20-C21
17	B	846	BCR	C10-C11-C12-C13
17	J	103	BCR	C18-C19-C20-C21
17	L	208	BCR	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
14	A	810	CLA	C3-C5-C6-C7
14	B	804	CLA	C3-C5-C6-C7
13	A	801	CL0	C8-C10-C11-C12
14	A	812	CLA	C10-C11-C12-C13
14	B	808	CLA	C15-C16-C17-C18
14	A	834	CLA	O1A-CGA-O2A-C1
14	A	810	CLA	C15-C16-C17-C18
14	A	839	CLA	C10-C11-C12-C13
15	A	845	PQN	C25-C26-C27-C28
14	A	832	CLA	O1A-CGA-O2A-C1
14	A	806	CLA	C13-C15-C16-C17
14	A	826	CLA	C15-C16-C17-C18
14	A	830	CLA	C8-C10-C11-C12
14	A	830	CLA	C10-C11-C12-C13
14	A	835	CLA	C5-C6-C7-C8
14	B	828	CLA	C15-C16-C17-C18
19	B	850	LHG	C4-O6-P-O3
14	A	810	CLA	CBA-CGA-O2A-C1
14	B	805	CLA	C13-C15-C16-C17
14	B	808	CLA	C13-C15-C16-C17
14	K	101	CLA	C2A-CAA-CBA-CGA
14	M	102	CLA	C2A-CAA-CBA-CGA
14	B	832	CLA	C16-C17-C18-C20
14	A	833	CLA	CBA-CGA-O2A-C1
14	A	857	CLA	O1D-CGD-O2D-CED
19	M	101	LHG	C32-C33-C34-C35
14	A	822	CLA	C15-C16-C17-C18
17	A	847	BCR	C11-C10-C9-C34
17	A	847	BCR	C35-C13-C14-C15
17	A	849	BCR	C11-C10-C9-C34
17	A	849	BCR	C20-C21-C22-C37
17	A	851	BCR	C20-C21-C22-C37
17	B	845	BCR	C11-C10-C9-C34
17	B	845	BCR	C35-C13-C14-C15
17	B	845	BCR	C20-C21-C22-C37
17	B	848	BCR	C11-C10-C9-C34
17	B	848	BCR	C16-C17-C18-C36
17	B	851	BCR	C16-C17-C18-C36
17	B	851	BCR	C20-C21-C22-C37
17	F	203	BCR	C20-C21-C22-C37
17	I	101	BCR	C11-C10-C9-C34
17	I	101	BCR	C16-C17-C18-C36

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Mol	Chain	Res	Type	Atoms
17	I	101	BCR	C20-C21-C22-C37
17	J	103	BCR	C35-C13-C14-C15
17	J	103	BCR	C20-C21-C22-C37
17	J	104	BCR	C11-C10-C9-C34
17	J	104	BCR	C20-C21-C22-C37
17	J	105	BCR	C20-C21-C22-C37
17	L	201	BCR	C16-C17-C18-C36
17	M	103	BCR	C11-C10-C9-C34
17	M	103	BCR	C20-C21-C22-C37
19	M	101	LHG	C14-C15-C16-C17
14	B	813	CLA	C16-C17-C18-C19
14	B	826	CLA	O1D-CGD-O2D-CED
14	A	839	CLA	CBD-CGD-O2D-CED
22	L	207	DGD	C5B-C6B-C7B-C8B
14	A	811	CLA	O1D-CGD-O2D-CED
14	B	827	CLA	C2C-C3C-CAC-CBC
17	A	847	BCR	C11-C10-C9-C8
17	A	847	BCR	C12-C13-C14-C15
17	A	848	BCR	C11-C10-C9-C8
17	A	848	BCR	C16-C17-C18-C19
17	A	848	BCR	C20-C21-C22-C23
17	A	849	BCR	C11-C10-C9-C8
17	A	850	BCR	C16-C17-C18-C19
17	A	850	BCR	C20-C21-C22-C23
17	A	852	BCR	C12-C13-C14-C15
17	B	844	BCR	C16-C17-C18-C19
17	B	845	BCR	C11-C10-C9-C8
17	B	845	BCR	C12-C13-C14-C15
17	B	845	BCR	C20-C21-C22-C23
17	B	846	BCR	C20-C21-C22-C23
17	B	848	BCR	C20-C21-C22-C23
17	B	851	BCR	C11-C10-C9-C8
17	F	203	BCR	C11-C10-C9-C8
17	F	203	BCR	C12-C13-C14-C15
17	F	203	BCR	C16-C17-C18-C19
17	I	101	BCR	C16-C17-C18-C19
17	I	101	BCR	C20-C21-C22-C23
17	J	103	BCR	C16-C17-C18-C19
17	J	105	BCR	C11-C10-C9-C8
17	L	201	BCR	C20-C21-C22-C23
14	B	827	CLA	C4C-C3C-CAC-CBC
18	A	853	LMG	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
18	A	853	LMG	C20-C21-C22-C23
18	B	849	LMG	C41-C42-C43-C44
19	M	101	LHG	C30-C31-C32-C33
14	A	820	CLA	C13-C15-C16-C17
14	A	835	CLA	C16-C17-C18-C20
14	L	206	CLA	C16-C17-C18-C19
15	A	845	PQN	C26-C27-C28-C29
18	A	853	LMG	C30-C31-C32-C33
18	B	849	LMG	C36-C37-C38-C39
22	L	207	DGD	CAA-CBA-CCA-CDA
14	A	812	CLA	C11-C12-C13-C14
14	B	806	CLA	C6-C7-C8-C9
14	B	827	CLA	C6-C7-C8-C9
15	B	842	PQN	C21-C22-C23-C24
18	A	853	LMG	C33-C34-C35-C36
18	I	102	LMG	C15-C16-C17-C18
14	A	809	CLA	C13-C15-C16-C17
18	A	856	LMG	C18-C19-C20-C21
14	B	807	CLA	O1D-CGD-O2D-CED
21	L	202	LMT	C5'-C4'-O1B-C1B
14	A	806	CLA	C16-C17-C18-C19
14	A	806	CLA	C16-C17-C18-C20
14	A	820	CLA	C16-C17-C18-C20
14	A	833	CLA	C16-C17-C18-C19
14	A	833	CLA	C16-C17-C18-C20
14	B	813	CLA	C16-C17-C18-C20
14	B	838	CLA	C16-C17-C18-C20
14	L	206	CLA	C16-C17-C18-C20
15	A	845	PQN	C26-C27-C28-C30
14	A	803	CLA	C13-C15-C16-C17
19	A	854	LHG	C12-C13-C14-C15
14	F	202	CLA	O1D-CGD-O2D-CED
14	A	805	CLA	C10-C11-C12-C13
18	A	853	LMG	C14-C15-C16-C17
14	B	832	CLA	C5-C6-C7-C8
14	B	840	CLA	C8-C10-C11-C12
18	A	853	LMG	O10-C28-O8-C9
14	B	813	CLA	CBA-CGA-O2A-C1
14	A	806	CLA	C3A-C2A-CAA-CBA
14	A	826	CLA	C3A-C2A-CAA-CBA
14	A	828	CLA	C3A-C2A-CAA-CBA
14	F	201	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
17	A	848	BCR	C15-C16-C17-C18
18	A	853	LMG	C22-C23-C24-C25
14	A	820	CLA	C16-C17-C18-C19
14	B	838	CLA	C16-C17-C18-C19
14	A	804	CLA	CBD-CGD-O2D-CED
18	A	853	LMG	C11-C12-C13-C14
17	J	104	BCR	C14-C15-C16-C17
17	M	103	BCR	C14-C15-C16-C17
14	A	810	CLA	O1A-CGA-O2A-C1
14	A	822	CLA	C4-C3-C5-C6
14	A	826	CLA	C4-C3-C5-C6
14	A	822	CLA	C2-C3-C5-C6
14	B	816	CLA	CBD-CGD-O2D-CED
18	B	849	LMG	C17-C18-C19-C20
18	B	849	LMG	C35-C36-C37-C38
14	A	833	CLA	O1A-CGA-O2A-C1
14	A	825	CLA	C8-C10-C11-C12
14	A	843	CLA	C15-C16-C17-C18
15	A	845	PQN	C20-C21-C22-C23
15	A	845	PQN	C15-C16-C17-C18
22	L	207	DGD	O1B-C1B-O2G-C2G
14	A	826	CLA	C2-C1-O2A-CGA
14	A	839	CLA	C8-C10-C11-C12
14	B	802	CLA	C8-C10-C11-C12
14	B	814	CLA	C15-C16-C17-C18
18	B	849	LMG	C18-C19-C20-C21
22	L	207	DGD	C9A-CAA-CBA-CCA
17	A	848	BCR	C5-C6-C7-C8
17	A	848	BCR	C23-C24-C25-C26
17	A	848	BCR	C23-C24-C25-C30
17	A	850	BCR	C23-C24-C25-C26
17	A	850	BCR	C23-C24-C25-C30
17	A	852	BCR	C1-C6-C7-C8
17	A	852	BCR	C5-C6-C7-C8
17	A	852	BCR	C23-C24-C25-C26
17	A	852	BCR	C23-C24-C25-C30
17	B	843	BCR	C23-C24-C25-C26
17	B	843	BCR	C23-C24-C25-C30
17	B	846	BCR	C23-C24-C25-C30
17	B	847	BCR	C23-C24-C25-C26
17	B	847	BCR	C23-C24-C25-C30
17	F	203	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
17	I	101	BCR	C1-C6-C7-C8
17	I	101	BCR	C5-C6-C7-C8
17	I	103	BCR	C5-C6-C7-C8
17	J	103	BCR	C1-C6-C7-C8
17	J	103	BCR	C5-C6-C7-C8
17	J	103	BCR	C23-C24-C25-C26
17	J	103	BCR	C23-C24-C25-C30
17	J	104	BCR	C23-C24-C25-C26
17	J	104	BCR	C23-C24-C25-C30
17	J	105	BCR	C5-C6-C7-C8
17	L	208	BCR	C1-C6-C7-C8
17	L	208	BCR	C5-C6-C7-C8
17	L	208	BCR	C23-C24-C25-C26
17	L	208	BCR	C23-C24-C25-C30
17	M	103	BCR	C1-C6-C7-C8
17	M	103	BCR	C23-C24-C25-C26
17	M	103	BCR	C23-C24-C25-C30
21	L	202	LMT	O5B-C5B-C6B-O6B
18	B	849	LMG	C31-C32-C33-C34
14	B	827	CLA	CBA-CGA-O2A-C1
14	B	828	CLA	CBA-CGA-O2A-C1
14	B	837	CLA	CBA-CGA-O2A-C1
14	A	810	CLA	C10-C11-C12-C13
14	A	831	CLA	C10-C11-C12-C13
18	I	102	LMG	O10-C28-O8-C9
19	A	854	LHG	C7-C8-C9-C10
19	B	850	LHG	C24-C23-O8-C6
14	A	807	CLA	C11-C12-C13-C15
14	A	826	CLA	C2-C3-C5-C6
14	A	834	CLA	C11-C10-C8-C7
14	A	834	CLA	C12-C13-C15-C16
14	B	829	CLA	C11-C10-C8-C7
14	B	840	CLA	C12-C13-C15-C16
15	A	845	PQN	C16-C17-C18-C20
14	B	813	CLA	O1A-CGA-O2A-C1
19	A	854	LHG	C27-C28-C29-C30
17	A	851	BCR	C15-C16-C17-C18
14	A	835	CLA	C16-C17-C18-C19
14	A	825	CLA	O1D-CGD-O2D-CED
14	A	802	CLA	CBA-CGA-O2A-C1
14	A	818	CLA	CBA-CGA-O2A-C1
14	A	826	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
18	A	853	LMG	C28-C29-C30-C31
18	I	102	LMG	C28-C29-C30-C31
19	A	854	LHG	C23-C24-C25-C26
19	M	101	LHG	C34-C35-C36-C37
17	A	847	BCR	C22-C23-C24-C25
17	M	103	BCR	C22-C23-C24-C25
14	B	816	CLA	CBA-CGA-O2A-C1
14	B	837	CLA	C8-C10-C11-C12
14	A	814	CLA	O1D-CGD-O2D-CED
18	I	102	LMG	C11-C10-O7-C8
17	B	845	BCR	C10-C11-C12-C13
14	A	804	CLA	C5-C6-C7-C8
14	A	833	CLA	C5-C6-C7-C8
14	A	835	CLA	CBD-CGD-O2D-CED
19	A	854	LHG	O9-C7-O7-C5
18	B	849	LMG	C13-C14-C15-C16
19	A	854	LHG	O7-C5-C6-O8
18	A	856	LMG	O6-C5-C6-O5
14	A	833	CLA	C4-C3-C5-C6
13	A	801	CL0	C11-C12-C13-C14
14	A	802	CLA	C11-C10-C8-C9
14	A	805	CLA	C6-C7-C8-C9
14	A	807	CLA	C11-C12-C13-C14
14	A	830	CLA	C11-C12-C13-C14
14	A	834	CLA	C11-C10-C8-C9
14	A	834	CLA	C14-C13-C15-C16
14	B	819	CLA	C11-C10-C8-C9
14	B	838	CLA	C11-C10-C8-C9
14	B	838	CLA	C11-C12-C13-C14
14	B	813	CLA	O1D-CGD-O2D-CED
14	B	828	CLA	O1A-CGA-O2A-C1
14	B	828	CLA	C3-C5-C6-C7
14	A	817	CLA	C2A-CAA-CBA-CGA
14	A	820	CLA	C2A-CAA-CBA-CGA
14	B	814	CLA	C2A-CAA-CBA-CGA
14	B	823	CLA	O1D-CGD-O2D-CED
14	A	818	CLA	O1A-CGA-O2A-C1
14	B	827	CLA	O1A-CGA-O2A-C1
14	B	837	CLA	O1A-CGA-O2A-C1
14	A	823	CLA	C1A-C2A-CAA-CBA
14	A	824	CLA	C1A-C2A-CAA-CBA
14	B	817	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
14	F	201	CLA	C1A-C2A-CAA-CBA
14	J	101	CLA	C1A-C2A-CAA-CBA
13	A	801	CL0	C16-C17-C18-C20
14	B	832	CLA	C16-C17-C18-C19
14	A	837	CLA	O1D-CGD-O2D-CED
19	M	101	LHG	C23-C24-C25-C26
14	B	822	CLA	C5-C6-C7-C8
14	A	802	CLA	O1A-CGA-O2A-C1
18	B	849	LMG	C30-C31-C32-C33
14	A	831	CLA	C13-C15-C16-C17
18	A	856	LMG	C16-C17-C18-C19
22	L	207	DGD	CEB-CFB-CGB-CHB
14	A	826	CLA	O1A-CGA-O2A-C1
19	M	101	LHG	C11-C10-C9-C8
14	B	809	CLA	C16-C17-C18-C20
19	A	854	LHG	C4-C5-C6-O8
19	B	850	LHG	C4-C5-C6-O8
14	B	828	CLA	C5-C6-C7-C8
14	B	804	CLA	C6-C7-C8-C9
14	A	813	CLA	C6-C7-C8-C9
14	A	825	CLA	C11-C12-C13-C14
18	A	856	LMG	C13-C14-C15-C16
22	L	207	DGD	CCA-CDA-CEA-CFA
17	A	847	BCR	C20-C21-C22-C37
17	B	844	BCR	C11-C10-C9-C34
17	B	851	BCR	C11-C10-C9-C34
14	B	827	CLA	O1D-CGD-O2D-CED
14	B	805	CLA	C15-C16-C17-C18
19	M	101	LHG	C13-C14-C15-C16
21	L	202	LMT	O1'-C1-C2-C3
14	B	825	CLA	O1A-CGA-O2A-C1
14	B	816	CLA	O1A-CGA-O2A-C1
14	A	839	CLA	C16-C17-C18-C20
14	B	809	CLA	C16-C17-C18-C19
18	B	849	LMG	C15-C16-C17-C18
14	A	830	CLA	C5-C6-C7-C8
14	B	813	CLA	C8-C10-C11-C12
14	B	818	CLA	C8-C10-C11-C12
14	A	806	CLA	C5-C6-C7-C8
14	B	810	CLA	C5-C6-C7-C8
17	B	847	BCR	C12-C13-C14-C15
17	M	103	BCR	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
18	A	853	LMG	C2-C1-O1-C7
19	A	855	LHG	O9-C7-O7-C5
14	A	857	CLA	C13-C15-C16-C17
13	A	801	CL0	C16-C17-C18-C19
13	A	801	CL0	C11-C12-C13-C15
14	A	802	CLA	C11-C10-C8-C7
14	A	820	CLA	C11-C10-C8-C7
14	A	822	CLA	C6-C7-C8-C10
14	A	829	CLA	C6-C7-C8-C10
14	B	802	CLA	C11-C12-C13-C15
14	B	805	CLA	C12-C13-C15-C16
14	B	810	CLA	C11-C12-C13-C15
14	B	819	CLA	C11-C10-C8-C7
14	B	828	CLA	C12-C13-C15-C16
14	B	832	CLA	C11-C12-C13-C15
14	B	838	CLA	C11-C10-C8-C7
14	B	838	CLA	C11-C12-C13-C15
21	L	202	LMT	C1-C2-C3-C4
18	A	853	LMG	C18-C19-C20-C21
14	A	841	CLA	C6-C7-C8-C9
14	A	857	CLA	C11-C10-C8-C9
14	B	802	CLA	C11-C12-C13-C14
14	B	803	CLA	C11-C10-C8-C9
14	B	818	CLA	C6-C7-C8-C9
14	B	828	CLA	C14-C13-C15-C16
14	B	829	CLA	C11-C10-C8-C9
14	B	832	CLA	C11-C12-C13-C14
14	B	810	CLA	CBA-CGA-O2A-C1
14	B	833	CLA	CBA-CGA-O2A-C1
17	B	847	BCR	C11-C12-C13-C14
14	B	817	CLA	C10-C11-C12-C13
22	L	207	DGD	O6D-C5D-C6D-O5D
14	A	826	CLA	C10-C11-C12-C13
14	A	823	CLA	CBA-CGA-O2A-C1
14	L	205	CLA	CBA-CGA-O2A-C1
19	A	854	LHG	C34-C35-C36-C37
14	A	839	CLA	C16-C17-C18-C19
19	A	855	LHG	C11-C10-C9-C8
19	A	855	LHG	C9-C10-C11-C12
14	B	809	CLA	CBA-CGA-O2A-C1
14	B	814	CLA	C8-C10-C11-C12
14	L	204	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
14	L	204	CLA	C2-C3-C5-C6
14	A	806	CLA	C10-C11-C12-C13
14	L	205	CLA	C13-C15-C16-C17
14	L	206	CLA	C10-C11-C12-C13
14	B	805	CLA	CBA-CGA-O2A-C1
14	B	841	CLA	CBA-CGA-O2A-C1
18	A	853	LMG	C29-C28-O8-C9
19	A	855	LHG	C2-C3-O3-P
14	A	804	CLA	O1D-CGD-O2D-CED
14	A	839	CLA	O1D-CGD-O2D-CED
14	B	813	CLA	C3A-C2A-CAA-CBA
14	B	819	CLA	C3A-C2A-CAA-CBA
14	J	101	CLA	C3A-C2A-CAA-CBA
21	L	202	LMT	C2-C1-O1'-C1'
18	B	849	LMG	O1-C7-C8-C9
19	M	101	LHG	C4-C5-C6-O8
19	M	101	LHG	C17-C18-C19-C20
14	B	832	CLA	C4-C3-C5-C6
14	B	816	CLA	O1D-CGD-O2D-CED
14	B	828	CLA	C13-C15-C16-C17
14	B	810	CLA	O1A-CGA-O2A-C1
14	A	813	CLA	C2C-C3C-CAC-CBC
14	A	832	CLA	C2-C1-O2A-CGA
14	A	823	CLA	O1A-CGA-O2A-C1
14	B	833	CLA	O1A-CGA-O2A-C1
14	A	803	CLA	C14-C13-C15-C16
14	A	827	CLA	C11-C10-C8-C9
14	B	817	CLA	C6-C7-C8-C9
14	B	808	CLA	C8-C10-C11-C12
19	M	101	LHG	C2-C3-O3-P
14	B	826	CLA	C2C-C3C-CAC-CBC
17	A	847	BCR	C23-C24-C25-C26
17	A	849	BCR	C5-C6-C7-C8
17	A	850	BCR	C1-C6-C7-C8
17	A	850	BCR	C5-C6-C7-C8
14	A	811	CLA	C2C-C3C-CAC-CBC
19	M	101	LHG	C29-C30-C31-C32
18	A	856	LMG	C19-C20-C21-C22
17	B	846	BCR	C7-C8-C9-C10
17	I	101	BCR	C21-C22-C23-C24
17	J	105	BCR	C11-C12-C13-C14
14	B	838	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
17	A	849	BCR	C14-C15-C16-C17
17	B	847	BCR	C14-C15-C16-C17
14	A	835	CLA	O1D-CGD-O2D-CED
14	B	824	CLA	C5-C6-C7-C8
14	A	807	CLA	C12-C13-C15-C16
14	A	825	CLA	C11-C10-C8-C7
14	A	827	CLA	C11-C10-C8-C7
14	A	841	CLA	C6-C7-C8-C10
14	A	857	CLA	C11-C10-C8-C7
14	B	803	CLA	C11-C10-C8-C7
14	B	806	CLA	C11-C12-C13-C15
14	B	809	CLA	C11-C10-C8-C7
14	B	818	CLA	C6-C7-C8-C10
14	B	832	CLA	C2-C3-C5-C6
14	L	204	CLA	C6-C7-C8-C10
14	L	204	CLA	C12-C13-C15-C16
14	L	205	CLA	C11-C10-C8-C7
17	A	848	BCR	C9-C10-C11-C12
17	B	845	BCR	C9-C10-C11-C12
13	A	801	CL0	C2A-CAA-CBA-CGA
17	B	843	BCR	C11-C10-C9-C34
17	B	847	BCR	C11-C10-C9-C34
17	J	103	BCR	C11-C10-C9-C34
19	A	854	LHG	C9-C10-C11-C12
14	A	820	CLA	C8-C10-C11-C12
14	B	838	CLA	C5-C6-C7-C8
14	A	803	CLA	CAD-CBD-CGD-O2D
14	A	812	CLA	CAD-CBD-CGD-O2D
14	A	814	CLA	CAD-CBD-CGD-O2D
14	A	833	CLA	CAD-CBD-CGD-O2D
14	B	811	CLA	CAD-CBD-CGD-O2D
14	B	816	CLA	CAD-CBD-CGD-O2D
14	X	1701	CLA	CAD-CBD-CGD-O2D
19	A	854	LHG	C18-C19-C20-C21
22	L	207	DGD	C4B-C5B-C6B-C7B
17	A	848	BCR	C22-C23-C24-C25
17	A	849	BCR	C6-C7-C8-C9
17	A	851	BCR	C6-C7-C8-C9
17	I	101	BCR	C22-C23-C24-C25
17	J	105	BCR	C6-C7-C8-C9
18	A	853	LMG	C7-C8-C9-O8
18	I	102	LMG	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
14	A	814	CLA	C3-C5-C6-C7
17	A	849	BCR	C10-C11-C12-C13
14	A	817	CLA	O2A-C1-C2-C3
14	B	826	CLA	C2A-CAA-CBA-CGA
14	B	831	CLA	C2A-CAA-CBA-CGA
14	L	206	CLA	C2A-CAA-CBA-CGA
19	M	101	LHG	C27-C28-C29-C30
14	A	811	CLA	CHA-CBD-CGD-O1D
14	A	811	CLA	CHA-CBD-CGD-O2D
14	A	831	CLA	CHA-CBD-CGD-O1D
14	A	831	CLA	CHA-CBD-CGD-O2D
14	A	835	CLA	CHA-CBD-CGD-O1D
14	A	835	CLA	CHA-CBD-CGD-O2D
14	A	840	CLA	CHA-CBD-CGD-O1D
14	A	840	CLA	CHA-CBD-CGD-O2D
14	B	802	CLA	CHA-CBD-CGD-O1D
14	B	802	CLA	CHA-CBD-CGD-O2D
14	B	804	CLA	CHA-CBD-CGD-O1D
14	B	804	CLA	CHA-CBD-CGD-O2D
14	B	815	CLA	CHA-CBD-CGD-O1D
14	B	826	CLA	CHA-CBD-CGD-O1D
14	B	829	CLA	CHA-CBD-CGD-O1D
14	B	829	CLA	CHA-CBD-CGD-O2D
14	B	834	CLA	CHA-CBD-CGD-O1D
14	B	834	CLA	CHA-CBD-CGD-O2D
14	B	805	CLA	O1A-CGA-O2A-C1
14	B	809	CLA	O1A-CGA-O2A-C1
14	B	841	CLA	O1A-CGA-O2A-C1
14	L	205	CLA	O1A-CGA-O2A-C1
17	A	849	BCR	C12-C13-C14-C15
17	B	847	BCR	C16-C17-C18-C19
17	I	101	BCR	C12-C13-C14-C15
17	M	103	BCR	C12-C13-C14-C15
17	M	103	BCR	C20-C21-C22-C23
22	L	207	DGD	C2D-C1D-O3G-C3G
19	B	850	LHG	O7-C5-C6-O8
19	M	101	LHG	O7-C5-C6-O8
18	B	849	LMG	C23-C24-C25-C26
14	B	814	CLA	C4-C3-C5-C6
14	A	825	CLA	C11-C10-C8-C9
14	A	828	CLA	C11-C10-C8-C9
14	B	805	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
14	B	806	CLA	C11-C12-C13-C14
14	B	817	CLA	C11-C10-C8-C9
22	L	207	DGD	CAB-CBB-CCB-CDB
17	B	846	BCR	C11-C12-C13-C14
14	B	813	CLA	C1A-C2A-CAA-CBA
14	B	816	CLA	C1A-C2A-CAA-CBA
14	B	826	CLA	C1A-C2A-CAA-CBA
14	B	830	CLA	C1A-C2A-CAA-CBA
14	L	205	CLA	CBD-CGD-O2D-CED
17	B	846	BCR	C9-C10-C11-C12
19	A	855	LHG	C3-O3-P-O6
19	A	854	LHG	C19-C20-C21-C22
14	A	833	CLA	C2-C3-C5-C6
14	A	823	CLA	O2A-C1-C2-C3
14	A	807	CLA	C3-C5-C6-C7
14	A	825	CLA	C3-C5-C6-C7
22	L	207	DGD	C8A-C9A-CAA-CBA
14	A	841	CLA	C5-C6-C7-C8
14	B	809	CLA	C10-C11-C12-C13
14	B	841	CLA	C2C-C3C-CAC-CBC
14	A	814	CLA	CBA-CGA-O2A-C1
14	B	819	CLA	CBA-CGA-O2A-C1
19	A	855	LHG	C24-C23-O8-C6
19	A	854	LHG	C1-C2-C3-O3
18	A	853	LMG	C29-C30-C31-C32
14	A	802	CLA	C6-C7-C8-C10
14	A	831	CLA	C11-C10-C8-C7
14	A	839	CLA	C6-C7-C8-C10
14	B	802	CLA	C11-C10-C8-C7
14	B	814	CLA	C12-C13-C15-C16
14	B	829	CLA	C12-C13-C15-C16
14	L	205	CLA	C12-C13-C15-C16
15	B	842	PQN	C22-C23-C25-C26
14	A	820	CLA	C15-C16-C17-C18
14	A	802	CLA	C2A-CAA-CBA-CGA
18	B	849	LMG	O1-C7-C8-O7
14	A	822	CLA	C3-C5-C6-C7
14	A	814	CLA	O1A-CGA-O2A-C1
14	B	807	CLA	C4-C3-C5-C6
14	A	813	CLA	CBA-CGA-O2A-C1
14	L	206	CLA	CBA-CGA-O2A-C1
14	B	814	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
14	A	802	CLA	C6-C7-C8-C9
14	A	807	CLA	C14-C13-C15-C16
14	A	820	CLA	C11-C10-C8-C9
14	A	822	CLA	C6-C7-C8-C9
14	B	805	CLA	C14-C13-C15-C16
14	B	809	CLA	C11-C10-C8-C9
14	B	810	CLA	C11-C12-C13-C14
14	B	819	CLA	C11-C12-C13-C14
14	L	204	CLA	C14-C13-C15-C16
14	L	205	CLA	C11-C10-C8-C9
15	B	842	PQN	C24-C23-C25-C26
17	B	847	BCR	C22-C23-C24-C25
14	A	833	CLA	C3-C5-C6-C7
14	A	813	CLA	O1A-CGA-O2A-C1
14	A	843	CLA	C8-C10-C11-C12
17	I	103	BCR	C15-C16-C17-C18
14	B	832	CLA	C10-C11-C12-C13
17	B	851	BCR	C11-C12-C13-C14
14	B	813	CLA	C5-C6-C7-C8
17	L	201	BCR	C20-C21-C22-C37
14	A	839	CLA	C5-C6-C7-C8
14	A	823	CLA	C1-C2-C3-C4
14	B	831	CLA	C1-C2-C3-C4
14	L	206	CLA	O1A-CGA-O2A-C1
14	A	811	CLA	C2A-CAA-CBA-CGA
14	J	101	CLA	C2A-CAA-CBA-CGA
14	A	810	CLA	C5-C6-C7-C8
14	A	804	CLA	C2-C1-O2A-CGA
14	A	827	CLA	C5-C6-C7-C8
14	B	819	CLA	O1A-CGA-O2A-C1
14	B	826	CLA	C16-C17-C18-C20
14	A	807	CLA	C10-C11-C12-C13
14	A	822	CLA	C13-C15-C16-C17
14	B	831	CLA	O2A-C1-C2-C3
17	B	844	BCR	C1-C6-C7-C8
17	L	201	BCR	C23-C24-C25-C26
17	L	201	BCR	C23-C24-C25-C30
19	A	854	LHG	C28-C29-C30-C31
17	A	852	BCR	C16-C17-C18-C19
18	A	853	LMG	O7-C8-C9-O8
22	L	207	DGD	C2B-C3B-C4B-C5B
19	A	854	LHG	C3-O3-P-O6

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Mol	Chain	Res	Type	Atoms
19	B	850	LHG	C3-O3-P-O6
14	A	839	CLA	C4-C3-C5-C6
14	A	812	CLA	C11-C12-C13-C15
14	B	807	CLA	C2-C3-C5-C6
14	B	817	CLA	C11-C10-C8-C7
14	A	829	CLA	C6-C7-C8-C9
14	B	826	CLA	C6-C7-C8-C9
21	L	202	LMT	C5-C6-C7-C8
14	A	839	CLA	O1A-CGA-O2A-C1
17	J	103	BCR	C21-C22-C23-C24
18	A	853	LMG	C12-C13-C14-C15
14	A	803	CLA	C3-C5-C6-C7
14	B	829	CLA	C8-C10-C11-C12
14	A	839	CLA	CBA-CGA-O2A-C1
19	A	854	LHG	C24-C25-C26-C27
17	B	848	BCR	C13-C14-C15-C16
15	A	845	PQN	C23-C25-C26-C27
14	X	1701	CLA	CAA-CBA-CGA-O2A
17	L	201	BCR	C18-C19-C20-C21
18	I	102	LMG	C30-C31-C32-C33
19	A	854	LHG	C29-C30-C31-C32
14	A	814	CLA	C5-C6-C7-C8
14	A	835	CLA	C2-C1-O2A-CGA
14	B	837	CLA	C2-C1-O2A-CGA
14	A	829	CLA	C2C-C3C-CAC-CBC
14	A	813	CLA	C2A-CAA-CBA-CGA
19	M	101	LHG	C25-C26-C27-C28
14	A	831	CLA	C3A-C2A-CAA-CBA
14	A	836	CLA	C3A-C2A-CAA-CBA
14	B	821	CLA	C3A-C2A-CAA-CBA
14	B	826	CLA	C3A-C2A-CAA-CBA
14	B	829	CLA	C3A-C2A-CAA-CBA
17	I	103	BCR	C9-C10-C11-C12
17	L	201	BCR	C13-C14-C15-C16
14	A	836	CLA	CBA-CGA-O2A-C1
14	X	1701	CLA	CAA-CBA-CGA-O1A
14	A	830	CLA	C4-C3-C5-C6
14	A	812	CLA	C14-C13-C15-C16
14	A	857	CLA	C11-C12-C13-C14
14	B	826	CLA	C14-C13-C15-C16
14	L	205	CLA	C14-C13-C15-C16
15	A	845	PQN	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
18	A	853	LMG	C35-C36-C37-C38
14	L	205	CLA	O1D-CGD-O2D-CED
14	B	807	CLA	C2C-C3C-CAC-CBC
17	A	851	BCR	C35-C13-C14-C15
17	A	852	BCR	C11-C10-C9-C34
17	F	203	BCR	C35-C13-C14-C15
14	A	827	CLA	C3-C5-C6-C7
14	M	102	CLA	CAA-CBA-CGA-O1A
14	A	810	CLA	C2A-CAA-CBA-CGA
14	B	807	CLA	C2A-CAA-CBA-CGA
14	B	826	CLA	C16-C17-C18-C19
14	A	807	CLA	O2A-C1-C2-C3
14	A	810	CLA	O2A-C1-C2-C3
14	B	815	CLA	CAA-CBA-CGA-O1A
17	A	847	BCR	C36-C18-C19-C20
17	M	103	BCR	C17-C18-C19-C20
14	B	841	CLA	C5-C6-C7-C8
13	A	801	CL0	C1A-C2A-CAA-CBA
14	B	819	CLA	C1A-C2A-CAA-CBA
14	B	821	CLA	C1A-C2A-CAA-CBA
14	B	827	CLA	C1A-C2A-CAA-CBA
14	A	828	CLA	C11-C10-C8-C7
14	A	829	CLA	C11-C12-C13-C15
14	A	830	CLA	C6-C7-C8-C10
14	A	831	CLA	C11-C12-C13-C15
14	A	843	CLA	C11-C12-C13-C15
14	B	802	CLA	C12-C13-C15-C16
14	B	805	CLA	C11-C10-C8-C7
14	B	808	CLA	C6-C7-C8-C10
14	B	813	CLA	C6-C7-C8-C10
14	B	828	CLA	C6-C7-C8-C10
17	B	845	BCR	C13-C14-C15-C16
14	A	828	CLA	C8-C10-C11-C12
14	B	827	CLA	C2A-CAA-CBA-CGA
14	K	102	CLA	C2A-CAA-CBA-CGA
14	L	205	CLA	C2A-CAA-CBA-CGA
18	A	856	LMG	C17-C18-C19-C20
14	A	807	CLA	C13-C15-C16-C17
13	A	801	CL0	C5-C6-C7-C8
14	B	810	CLA	C8-C10-C11-C12
17	I	103	BCR	C11-C10-C9-C8
17	J	104	BCR	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
14	M	102	CLA	CAA-CBA-CGA-O2A
17	B	846	BCR	C14-C15-C16-C17
14	A	816	CLA	C2A-CAA-CBA-CGA
17	J	103	BCR	C9-C10-C11-C12
14	B	815	CLA	CAA-CBA-CGA-O2A
14	B	823	CLA	CAA-CBA-CGA-O2A
14	B	810	CLA	C16-C17-C18-C20
14	A	830	CLA	C13-C15-C16-C17
14	A	837	CLA	CAA-CBA-CGA-O2A
14	A	802	CLA	C4-C3-C5-C6
14	A	820	CLA	C4-C3-C5-C6
14	A	842	CLA	C2-C1-O2A-CGA
14	B	803	CLA	C2-C1-O2A-CGA
14	A	830	CLA	C2-C3-C5-C6
14	A	836	CLA	O1A-CGA-O2A-C1
14	B	809	CLA	C15-C16-C17-C18
14	B	823	CLA	CAA-CBA-CGA-O1A
14	A	824	CLA	C4-C3-C5-C6
14	B	810	CLA	C4-C3-C5-C6
17	I	101	BCR	C7-C8-C9-C10
14	A	839	CLA	C2-C3-C5-C6
18	A	853	LMG	C10-C11-C12-C13
14	B	830	CLA	CAA-CBA-CGA-O2A
18	A	856	LMG	C8-C7-O1-C1
22	L	207	DGD	C5D-C6D-O5D-C1E
14	A	819	CLA	CAA-CBA-CGA-O2A
19	A	855	LHG	O6-C4-C5-O7
19	A	855	LHG	O6-C4-C5-C6
21	L	202	LMT	C11-C10-C9-C8
14	A	820	CLA	C2-C3-C5-C6
14	B	819	CLA	C12-C13-C15-C16
19	M	101	LHG	C24-C25-C26-C27
14	A	837	CLA	C2A-CAA-CBA-CGA
14	B	832	CLA	C2A-CAA-CBA-CGA
14	A	829	CLA	C16-C17-C18-C19
15	B	842	PQN	C26-C27-C28-C29
14	A	837	CLA	CAA-CBA-CGA-O1A
17	A	852	BCR	C16-C17-C18-C36
14	A	809	CLA	CAA-CBA-CGA-O2A
14	B	802	CLA	C4-C3-C5-C6
14	B	822	CLA	C4-C3-C5-C6
14	A	838	CLA	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
14	A	805	CLA	C2-C3-C5-C6
14	A	831	CLA	C11-C10-C8-C9
14	A	843	CLA	C11-C12-C13-C14
14	B	802	CLA	C11-C10-C8-C9
14	B	802	CLA	C14-C13-C15-C16
14	B	808	CLA	C6-C7-C8-C9
14	B	814	CLA	C14-C13-C15-C16
14	B	828	CLA	C6-C7-C8-C9
14	L	204	CLA	C6-C7-C8-C9
13	A	801	CL0	C3A-C2A-CAA-CBA
14	A	815	CLA	C3A-C2A-CAA-CBA
14	A	837	CLA	C3A-C2A-CAA-CBA
14	B	832	CLA	C3A-C2A-CAA-CBA
14	L	205	CLA	C3A-C2A-CAA-CBA
14	B	806	CLA	O1A-CGA-O2A-C1
14	B	803	CLA	CAA-CBA-CGA-O2A
14	A	802	CLA	CAD-CBD-CGD-O2D
14	A	813	CLA	CAD-CBD-CGD-O2D
14	A	815	CLA	CAD-CBD-CGD-O2D
14	A	827	CLA	CAD-CBD-CGD-O2D
14	A	828	CLA	CAD-CBD-CGD-O2D
14	A	830	CLA	CAD-CBD-CGD-O2D
14	A	832	CLA	CAD-CBD-CGD-O2D
14	A	838	CLA	CAD-CBD-CGD-O2D
14	A	842	CLA	CAD-CBD-CGD-O2D
14	B	805	CLA	CAD-CBD-CGD-O2D
14	B	814	CLA	CAD-CBD-CGD-O2D
14	B	822	CLA	CAD-CBD-CGD-O2D
14	B	827	CLA	CAD-CBD-CGD-O2D
14	B	832	CLA	CAD-CBD-CGD-O2D
14	B	837	CLA	CAD-CBD-CGD-O2D
14	B	840	CLA	CAD-CBD-CGD-O2D
14	K	102	CLA	CAD-CBD-CGD-O2D
14	M	102	CLA	CAD-CBD-CGD-O2D
14	F	202	CLA	CAA-CBA-CGA-O2A
14	B	810	CLA	CAA-CBA-CGA-O2A
14	A	808	CLA	CAA-CBA-CGA-O2A
18	A	853	LMG	O8-C28-C29-C30
17	J	103	BCR	C17-C18-C19-C20
17	L	201	BCR	C11-C12-C13-C14
17	L	208	BCR	C11-C12-C13-C14
14	B	836	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
19	M	101	LHG	C28-C29-C30-C31
14	A	828	CLA	C5-C6-C7-C8
14	B	813	CLA	CAA-CBA-CGA-O2A
14	A	806	CLA	O2A-C1-C2-C3
14	A	843	CLA	O2A-C1-C2-C3
14	B	824	CLA	O2A-C1-C2-C3
14	B	809	CLA	C2C-C3C-CAC-CBC
14	B	839	CLA	CAA-CBA-CGA-O2A
14	B	803	CLA	O1A-CGA-O2A-C1
14	A	816	CLA	CAA-CBA-CGA-O2A
14	B	812	CLA	CAA-CBA-CGA-O1A
14	F	202	CLA	CAA-CBA-CGA-O1A
14	A	805	CLA	CHA-CBD-CGD-O1D
14	A	805	CLA	CHA-CBD-CGD-O2D
14	A	817	CLA	CHA-CBD-CGD-O1D
14	A	817	CLA	CHA-CBD-CGD-O2D
14	A	857	CLA	CHA-CBD-CGD-O1D
14	A	857	CLA	CHA-CBD-CGD-O2D
14	B	807	CLA	CHA-CBD-CGD-O1D
14	B	807	CLA	CHA-CBD-CGD-O2D
14	B	810	CLA	CHA-CBD-CGD-O1D
14	B	813	CLA	CHA-CBD-CGD-O1D
14	B	813	CLA	CHA-CBD-CGD-O2D
14	B	815	CLA	CHA-CBD-CGD-O2D
14	B	824	CLA	CHA-CBD-CGD-O1D
14	B	824	CLA	CHA-CBD-CGD-O2D
14	B	826	CLA	CHA-CBD-CGD-O2D
14	B	836	CLA	CHA-CBD-CGD-O2D
17	I	101	BCR	C19-C20-C21-C22
14	B	836	CLA	CAA-CBA-CGA-O1A
14	K	102	CLA	CAA-CBA-CGA-O2A
18	A	853	LMG	C21-C22-C23-C24
17	B	843	BCR	C11-C10-C9-C8
17	L	201	BCR	C11-C10-C9-C8
14	B	830	CLA	CAA-CBA-CGA-O1A
14	A	809	CLA	C8-C10-C11-C12
14	B	812	CLA	CAA-CBA-CGA-O2A
14	A	857	CLA	C16-C17-C18-C20
18	A	853	LMG	O7-C10-C11-C12
14	A	826	CLA	C11-C10-C8-C7
14	A	828	CLA	C11-C12-C13-C15
14	A	833	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
14	B	817	CLA	C6-C7-C8-C10
14	L	206	CLA	C6-C7-C8-C10
14	A	804	CLA	C11-C10-C8-C9
14	A	828	CLA	C11-C12-C13-C14
14	A	830	CLA	C6-C7-C8-C9
14	A	831	CLA	C11-C12-C13-C14
14	A	839	CLA	C6-C7-C8-C9
14	B	813	CLA	C6-C7-C8-C9
19	A	855	LHG	O8-C23-C24-C25
14	B	838	CLA	C2A-CAA-CBA-CGA
19	B	850	LHG	O7-C7-C8-C9
14	A	816	CLA	CAA-CBA-CGA-O1A
14	B	835	CLA	CAA-CBA-CGA-O2A
17	A	849	BCR	C37-C22-C23-C24
14	B	841	CLA	C4C-C3C-CAC-CBC
14	A	809	CLA	CAA-CBA-CGA-O1A
14	B	806	CLA	CBA-CGA-O2A-C1
14	B	818	CLA	C2C-C3C-CAC-CBC
14	A	805	CLA	C1A-C2A-CAA-CBA
14	A	810	CLA	C1A-C2A-CAA-CBA
14	A	815	CLA	C1A-C2A-CAA-CBA
14	A	831	CLA	C1A-C2A-CAA-CBA
14	A	836	CLA	C1A-C2A-CAA-CBA
14	A	837	CLA	C1A-C2A-CAA-CBA
14	B	809	CLA	C1A-C2A-CAA-CBA
14	B	832	CLA	C1A-C2A-CAA-CBA
14	L	205	CLA	C1A-C2A-CAA-CBA
14	X	1701	CLA	C1A-C2A-CAA-CBA
18	B	849	LMG	O9-C10-C11-C12
19	B	850	LHG	O9-C7-C8-C9
14	A	808	CLA	CAA-CBA-CGA-O1A
18	A	853	LMG	O9-C10-C11-C12
14	J	102	CLA	C4C-C3C-CAC-CBC
14	B	802	CLA	CBA-CGA-O2A-C1
14	B	828	CLA	CAA-CBA-CGA-O2A
14	A	841	CLA	C3-C5-C6-C7
19	A	854	LHG	O10-C23-C24-C25
17	B	851	BCR	C6-C7-C8-C9
14	A	810	CLA	C8-C10-C11-C12
19	B	850	LHG	C3-O3-P-O5
14	A	828	CLA	C16-C17-C18-C19
14	B	803	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
14	B	813	CLA	CAA-CBA-CGA-O1A
19	M	101	LHG	O9-C7-C8-C9
17	B	844	BCR	C5-C6-C7-C8
14	A	807	CLA	CAA-CBA-CGA-O2A
14	A	828	CLA	CAA-CBA-CGA-O2A
14	A	819	CLA	C2A-CAA-CBA-CGA
14	B	810	CLA	CAA-CBA-CGA-O1A
18	A	853	LMG	C23-C24-C25-C26
14	A	820	CLA	CAA-CBA-CGA-O2A
14	B	805	CLA	CAA-CBA-CGA-O2A
14	B	838	CLA	C8-C10-C11-C12
14	K	102	CLA	CAA-CBA-CGA-O1A
14	A	804	CLA	CAD-CBD-CGD-O1D
14	A	810	CLA	CAD-CBD-CGD-O1D
14	B	810	CLA	CAD-CBD-CGD-O1D
14	B	811	CLA	CAD-CBD-CGD-O1D
14	B	815	CLA	CAD-CBD-CGD-O1D
14	B	825	CLA	CAD-CBD-CGD-O1D
14	B	826	CLA	CAD-CBD-CGD-O1D
14	B	809	CLA	CAA-CBA-CGA-O2A
14	A	833	CLA	C11-C10-C8-C9
14	A	835	CLA	C11-C12-C13-C14
14	B	806	CLA	C11-C10-C8-C9
14	B	808	CLA	C14-C13-C15-C16
14	B	819	CLA	C14-C13-C15-C16
14	B	829	CLA	C14-C13-C15-C16
14	L	206	CLA	C6-C7-C8-C9
22	L	207	DGD	C2A-C3A-C4A-C5A
14	A	806	CLA	CAA-CBA-CGA-O2A
19	M	101	LHG	O7-C7-C8-C9
14	B	835	CLA	CAA-CBA-CGA-O1A
14	A	814	CLA	CAA-CBA-CGA-O2A
14	A	818	CLA	CAA-CBA-CGA-O2A
14	B	809	CLA	C8-C10-C11-C12
14	A	857	CLA	C16-C17-C18-C19
14	B	810	CLA	C16-C17-C18-C19
14	A	805	CLA	C4-C3-C5-C6
14	A	804	CLA	C11-C10-C8-C7
14	A	835	CLA	C11-C12-C13-C15
14	A	842	CLA	C11-C10-C8-C7
14	B	806	CLA	C11-C10-C8-C7
14	A	820	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
14	B	805	CLA	CAA-CBA-CGA-O1A
14	B	828	CLA	CAA-CBA-CGA-O1A
14	B	839	CLA	CAA-CBA-CGA-O1A
14	A	832	CLA	CAA-CBA-CGA-O2A
14	B	807	CLA	CAA-CBA-CGA-O2A
14	B	820	CLA	CAA-CBA-CGA-O2A
18	B	849	LMG	C22-C23-C24-C25
17	A	850	BCR	C11-C12-C13-C14
17	B	847	BCR	C21-C22-C23-C24
17	A	850	BCR	C13-C14-C15-C16
17	B	847	BCR	C15-C16-C17-C18
14	B	813	CLA	C15-C16-C17-C18
14	A	818	CLA	CAA-CBA-CGA-O1A
14	A	822	CLA	C2A-CAA-CBA-CGA
14	A	843	CLA	C2A-CAA-CBA-CGA
14	A	838	CLA	C4C-C3C-CAC-CBC
15	B	842	PQN	C25-C26-C27-C28
14	A	806	CLA	CAA-CBA-CGA-O1A
14	A	832	CLA	CAA-CBA-CGA-O1A
14	B	826	CLA	CAA-CBA-CGA-O2A

There are no ring outliers.

117 monomers are involved in 270 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	A	835	CLA	2	0
14	A	839	CLA	3	0
14	A	840	CLA	3	0
17	B	851	BCR	1	0
14	A	811	CLA	4	0
14	A	815	CLA	3	0
15	B	842	PQN	2	0
14	A	807	CLA	1	0
17	I	101	BCR	4	0
14	A	842	CLA	3	0
14	J	101	CLA	6	0
17	L	201	BCR	3	0
14	B	834	CLA	3	0
14	B	819	CLA	1	0
14	B	831	CLA	3	0
14	B	832	CLA	3	0
17	I	103	BCR	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
18	A	856	LMG	2	0
14	B	804	CLA	3	0
14	A	830	CLA	3	0
14	B	824	CLA	2	0
17	J	103	BCR	2	0
14	B	829	CLA	3	0
14	A	833	CLA	3	0
14	B	818	CLA	1	0
14	B	833	CLA	4	0
14	B	839	CLA	4	0
19	A	854	LHG	1	0
14	A	804	CLA	3	0
14	B	841	CLA	2	0
14	A	834	CLA	1	0
17	F	203	BCR	3	0
14	A	806	CLA	4	0
14	A	813	CLA	2	0
14	A	817	CLA	2	0
17	B	846	BCR	3	0
14	A	824	CLA	2	0
17	A	849	BCR	1	0
14	A	805	CLA	8	0
14	B	809	CLA	2	0
17	B	844	BCR	1	0
14	A	843	CLA	3	0
14	B	802	CLA	6	0
16	C	102	SF4	1	0
14	B	812	CLA	2	0
14	B	811	CLA	1	0
14	B	808	CLA	1	0
14	B	820	CLA	2	0
14	B	810	CLA	1	0
14	A	810	CLA	7	0
22	L	207	DGD	2	0
14	A	838	CLA	2	0
14	A	803	CLA	6	0
14	J	102	CLA	1	0
14	B	816	CLA	2	0
17	J	105	BCR	8	0
14	B	836	CLA	1	0
14	A	819	CLA	1	0
18	B	849	LMG	1	0

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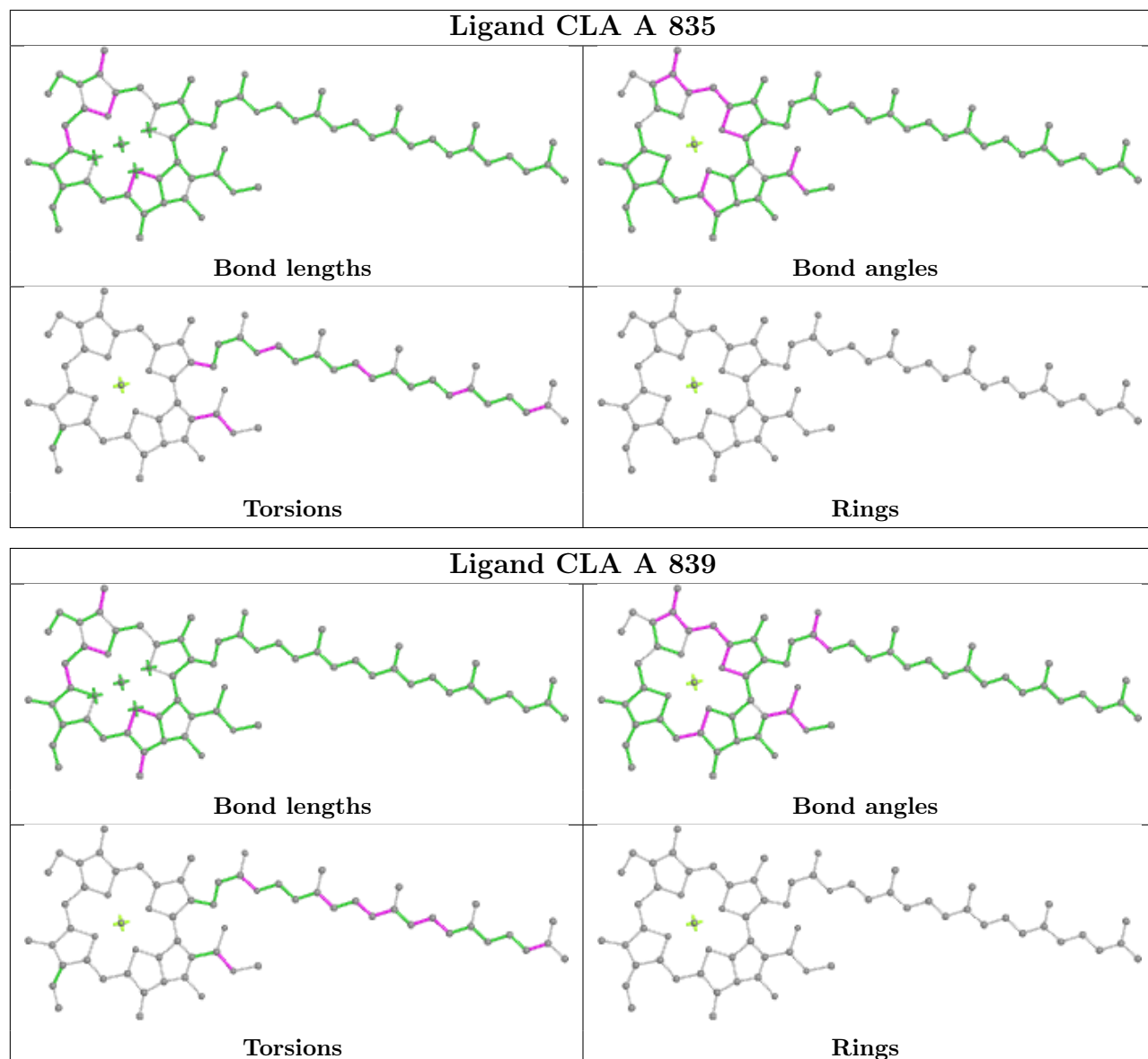
Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	A	828	CLA	3	0
14	L	205	CLA	1	0
14	A	827	CLA	3	0
14	A	825	CLA	4	0
14	F	202	CLA	3	0
14	B	827	CLA	3	0
14	B	837	CLA	3	0
14	B	825	CLA	3	0
17	L	208	BCR	1	0
14	A	814	CLA	2	0
14	B	803	CLA	6	0
15	A	845	PQN	5	0
17	A	852	BCR	5	0
14	K	101	CLA	4	0
17	B	848	BCR	3	0
14	B	840	CLA	2	0
17	A	851	BCR	1	0
14	A	841	CLA	4	0
17	J	104	BCR	4	0
17	B	847	BCR	5	0
17	B	845	BCR	2	0
14	B	817	CLA	4	0
14	A	844	CLA	3	0
14	A	808	CLA	2	0
14	B	805	CLA	2	0
14	B	830	CLA	1	0
19	B	850	LHG	1	0
17	A	848	BCR	5	0
14	A	857	CLA	9	0
14	A	802	CLA	3	0
14	L	204	CLA	1	0
14	A	809	CLA	2	0
14	B	838	CLA	3	0
14	F	201	CLA	2	0
14	A	820	CLA	4	0
14	B	826	CLA	4	0
14	A	826	CLA	4	0
14	B	813	CLA	6	0
14	X	1701	CLA	4	0
14	A	829	CLA	7	0
14	B	828	CLA	3	0
14	B	815	CLA	1	0

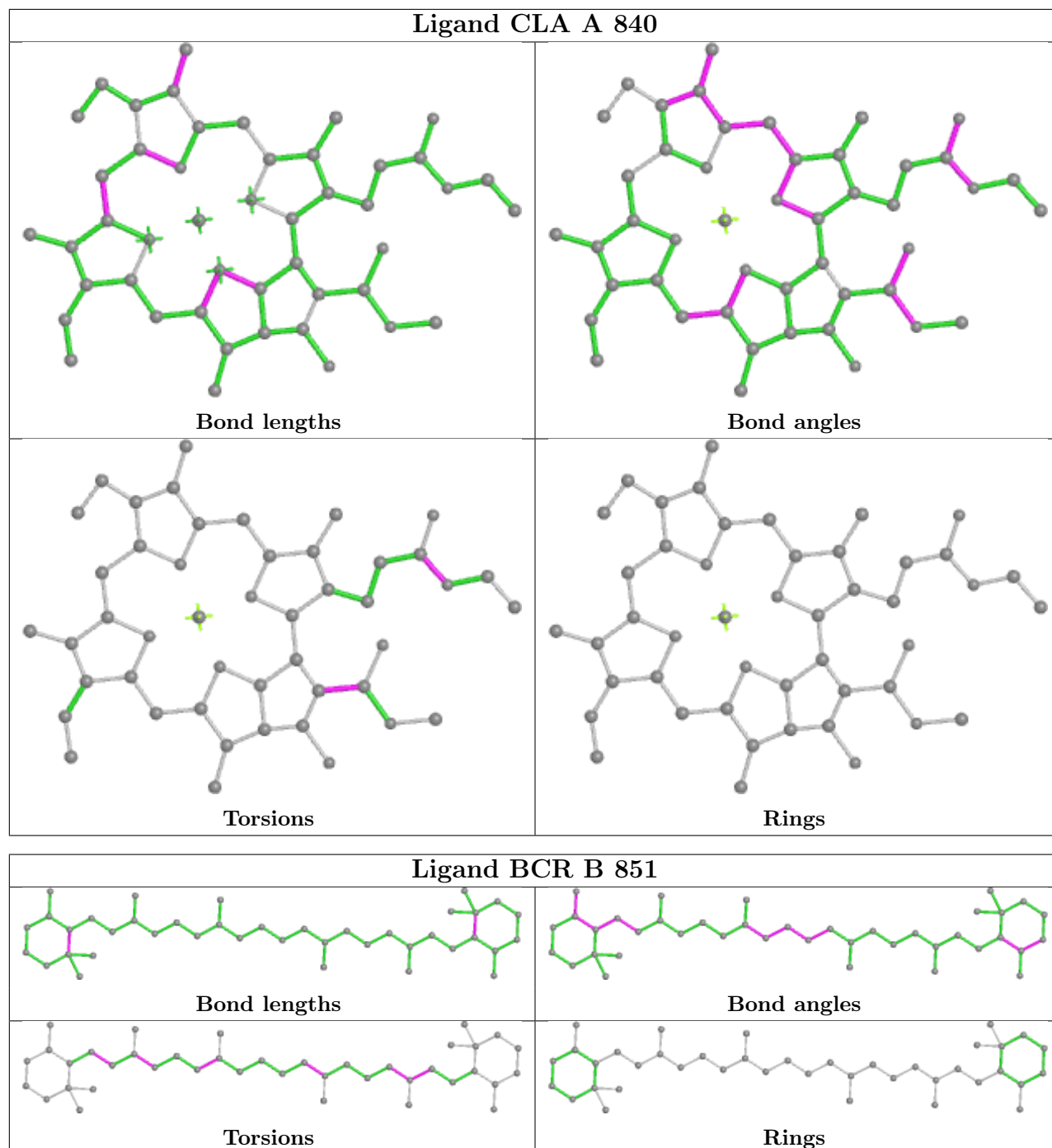
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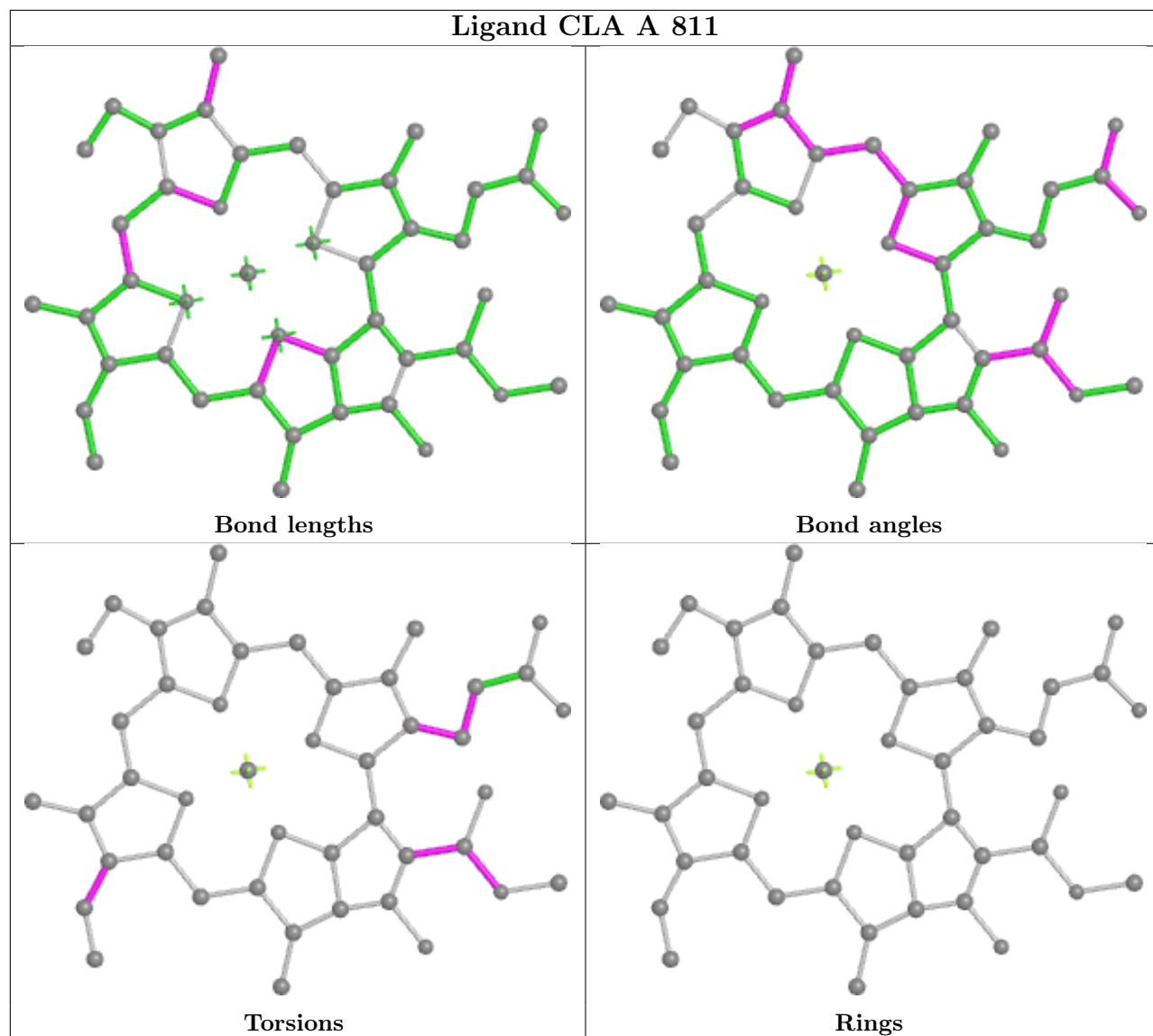
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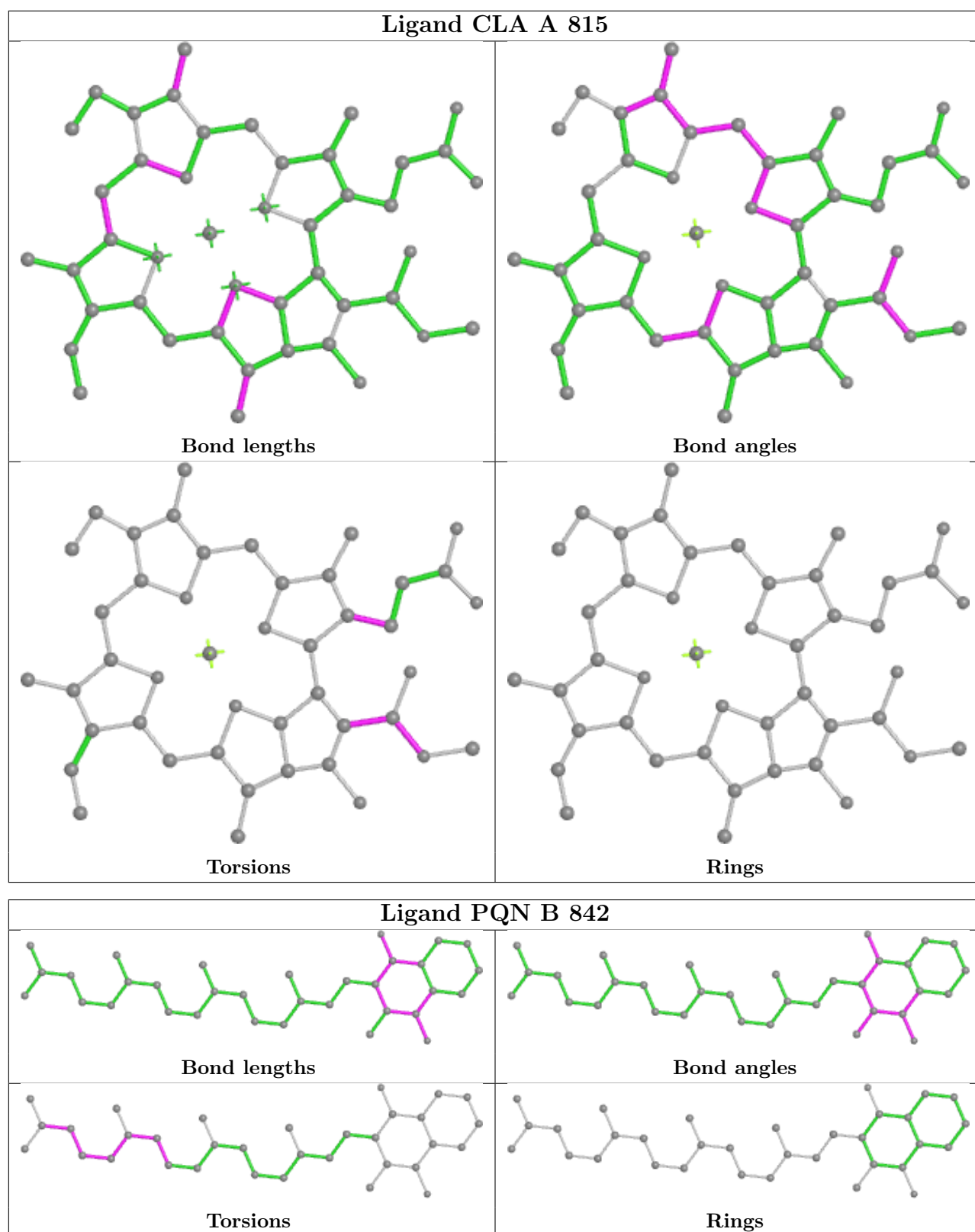
Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	A	818	CLA	1	0
14	B	835	CLA	2	0
17	A	850	BCR	1	0
17	A	847	BCR	1	0
14	K	102	CLA	1	0
14	A	812	CLA	5	0
13	A	801	CLO	4	0
14	L	206	CLA	1	0
14	A	831	CLA	4	0
14	A	832	CLA	3	0
14	B	814	CLA	3	0
14	B	822	CLA	1	0
14	A	822	CLA	5	0
17	B	843	BCR	2	0
14	B	823	CLA	2	0
14	B	806	CLA	1	0

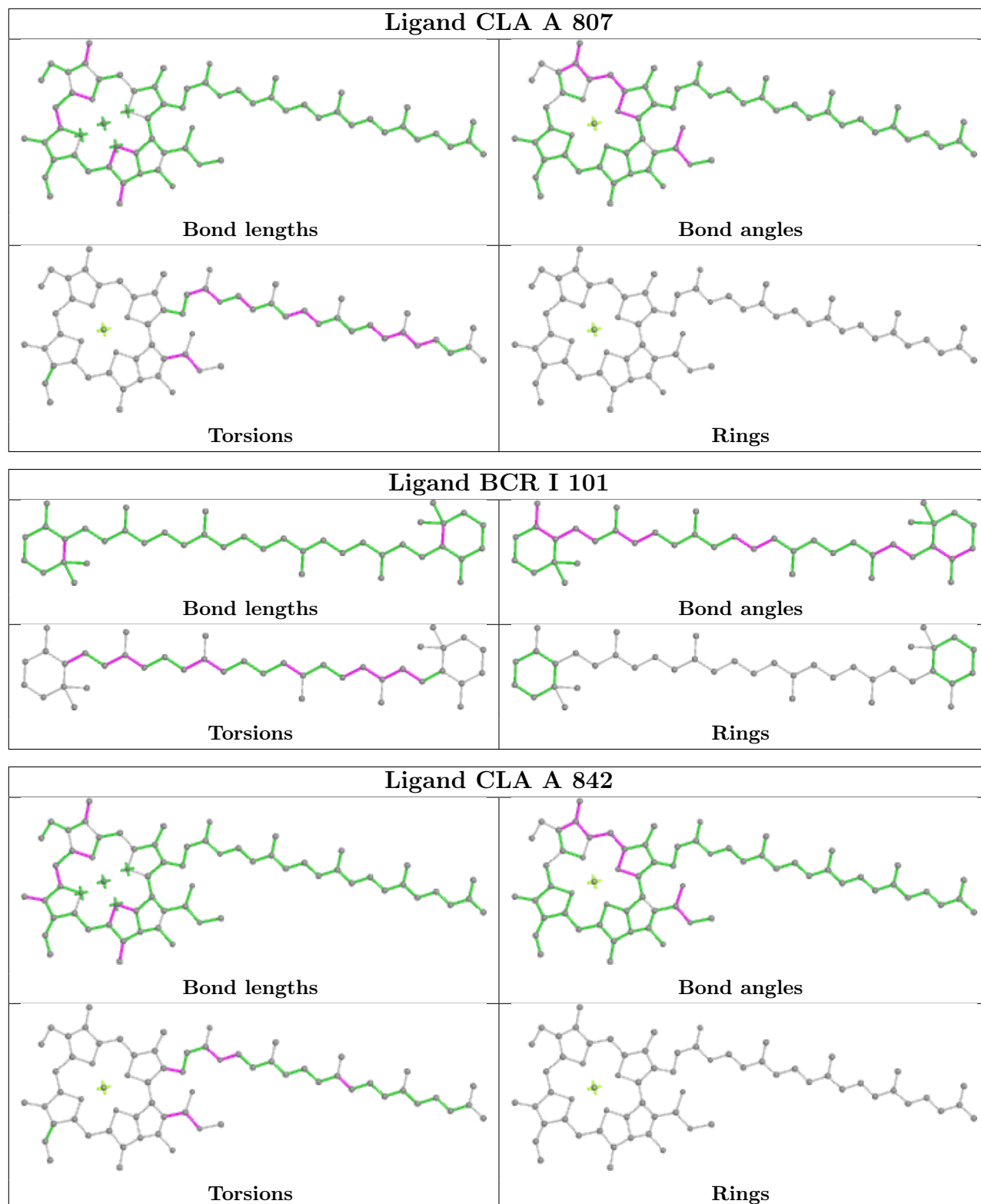
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

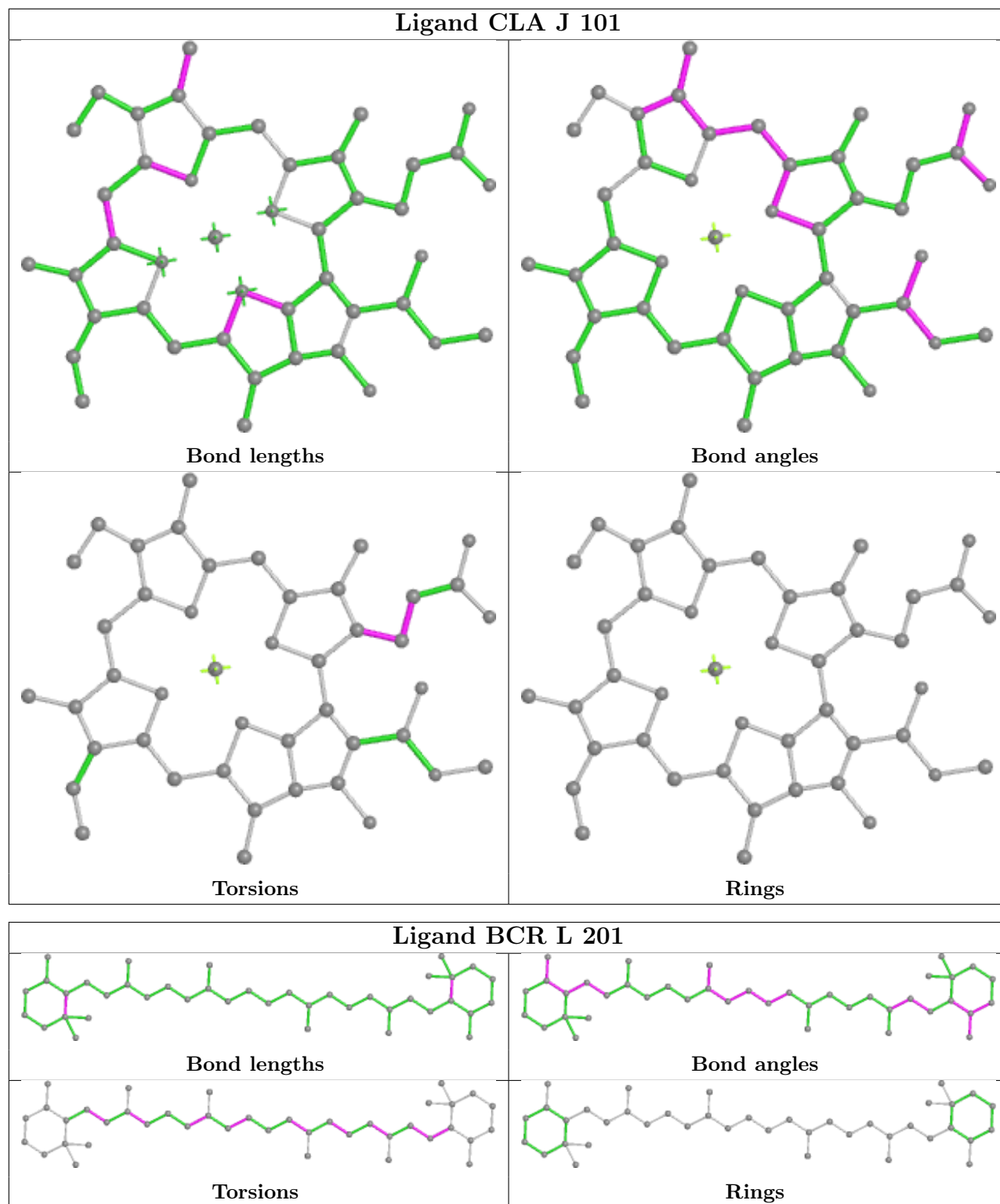


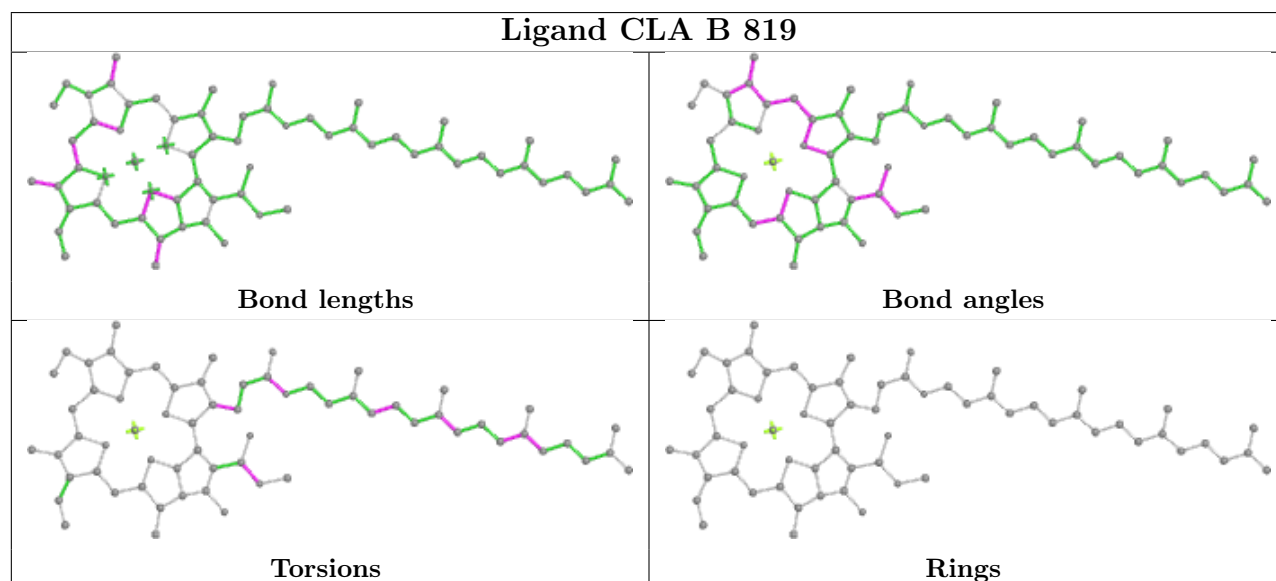
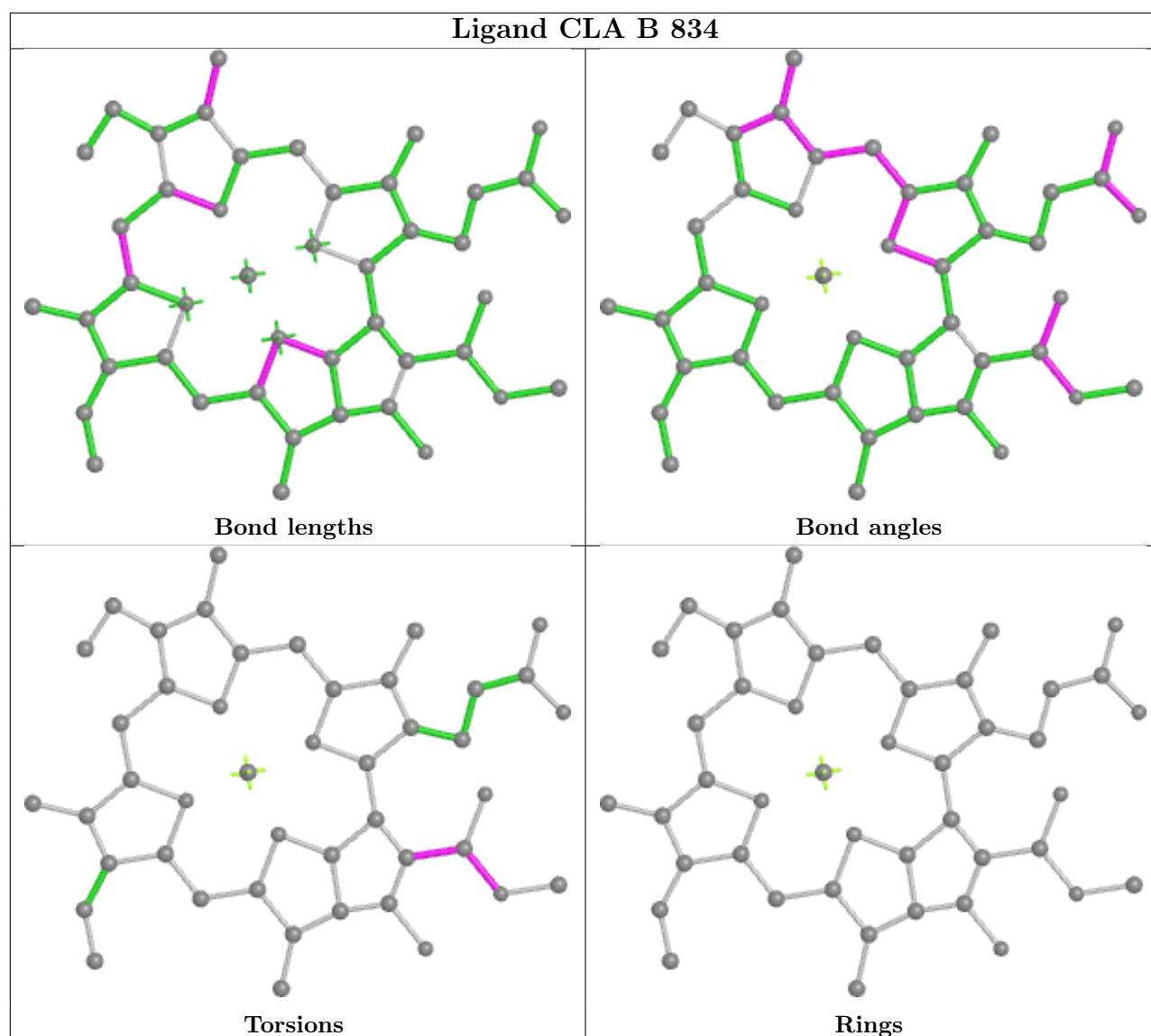


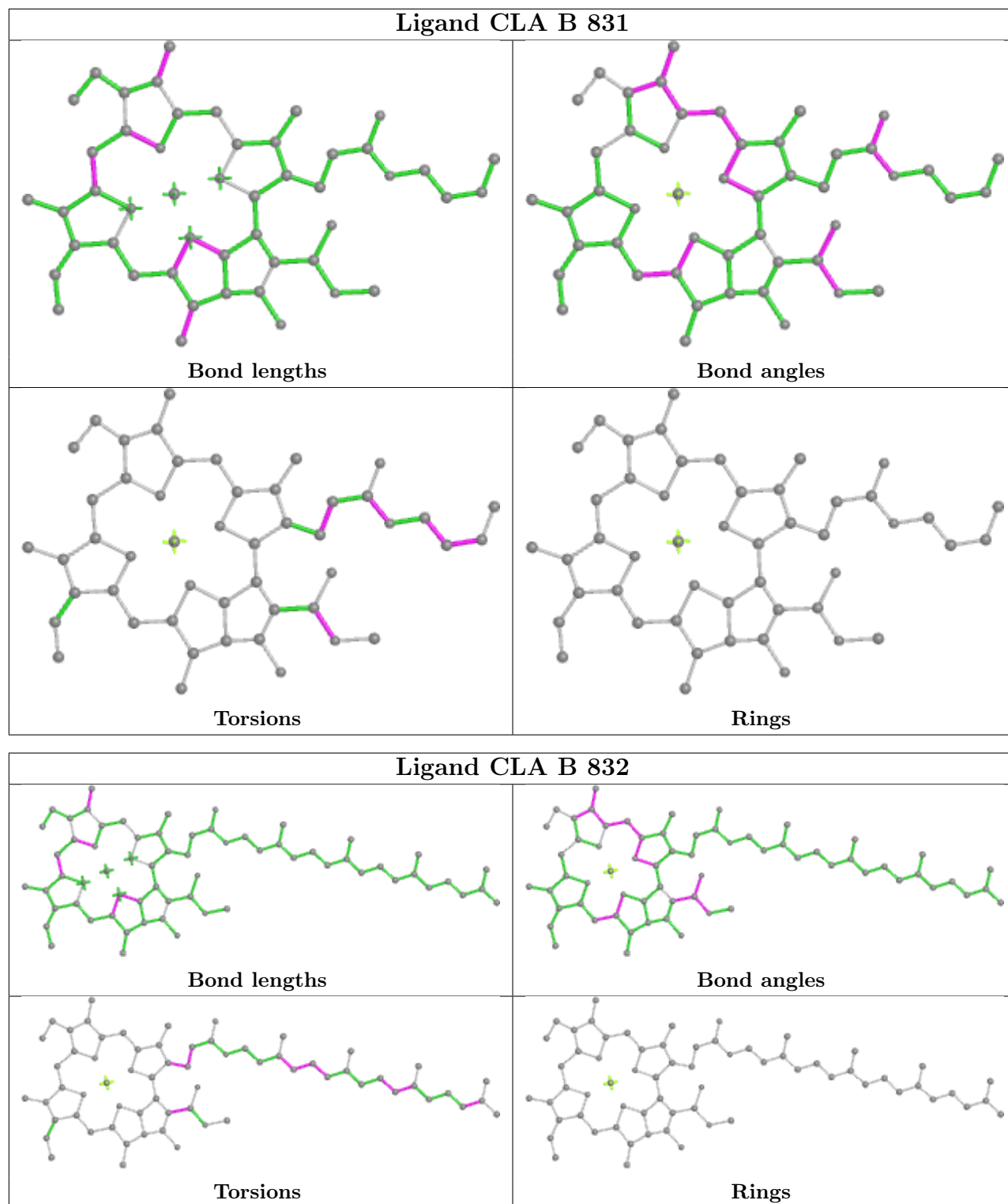


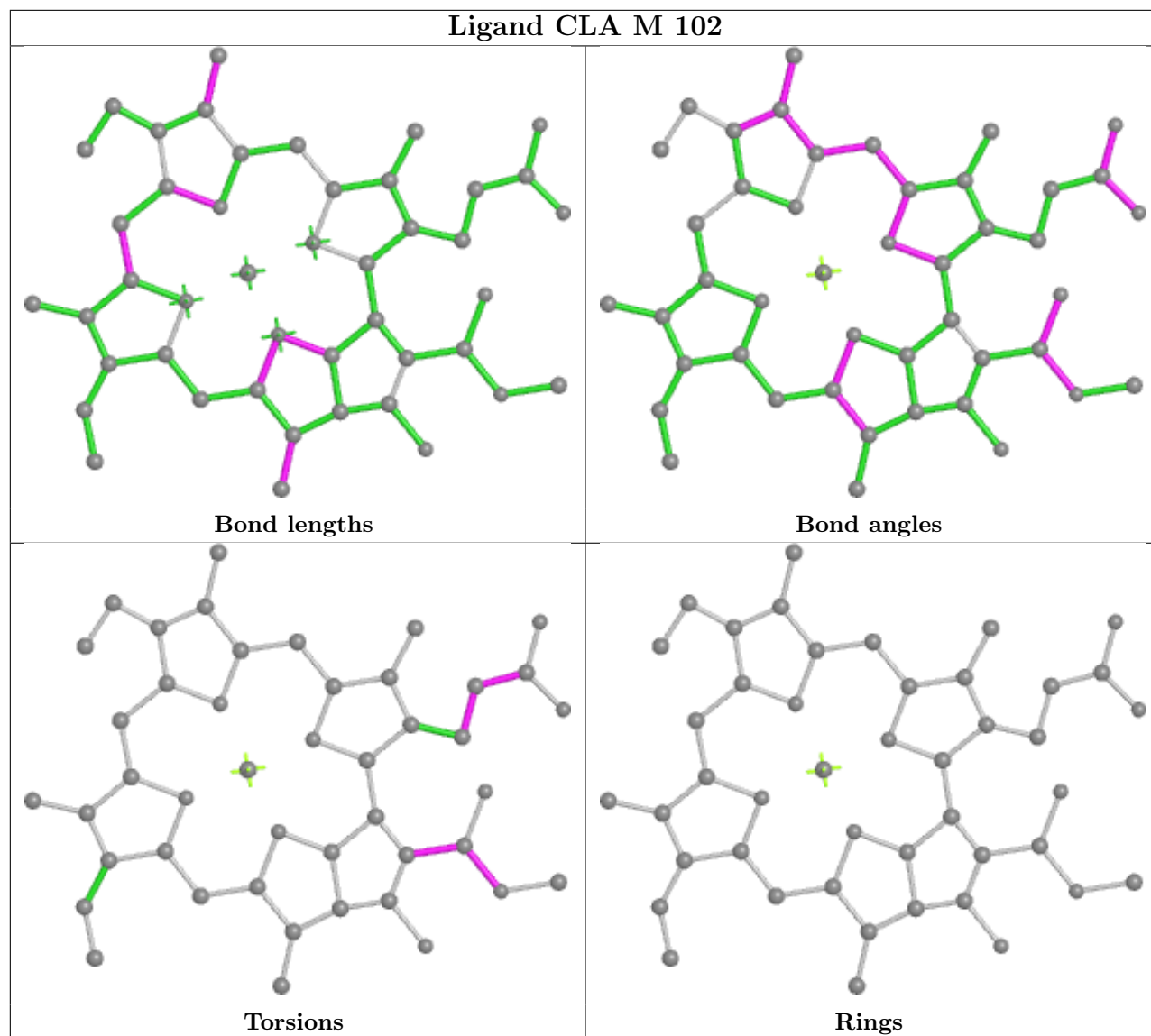
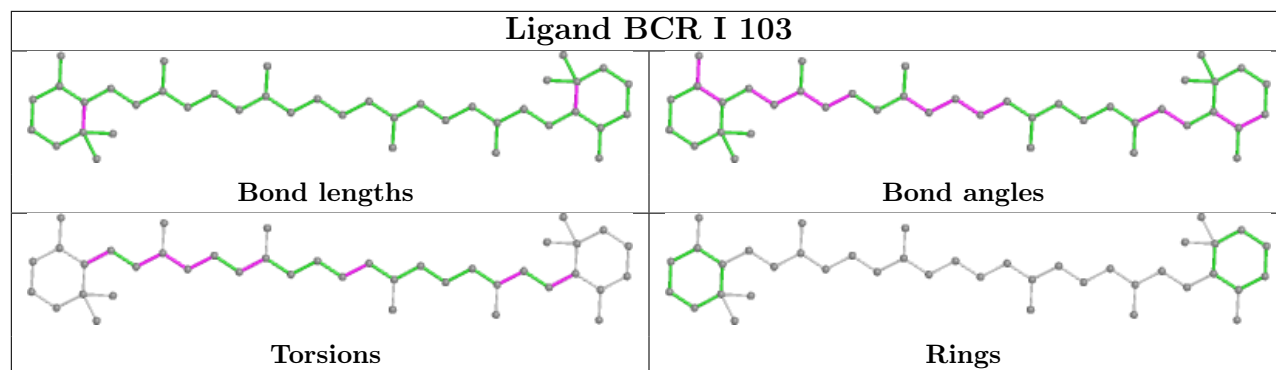


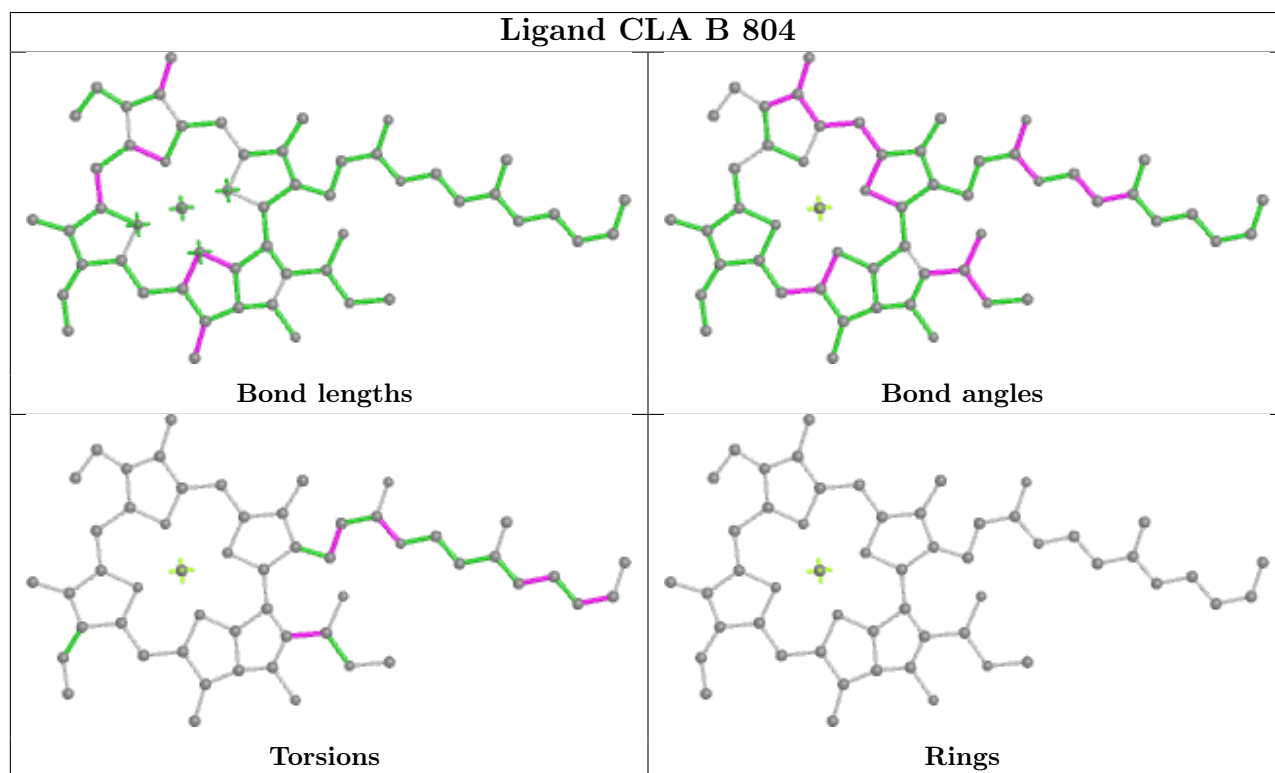
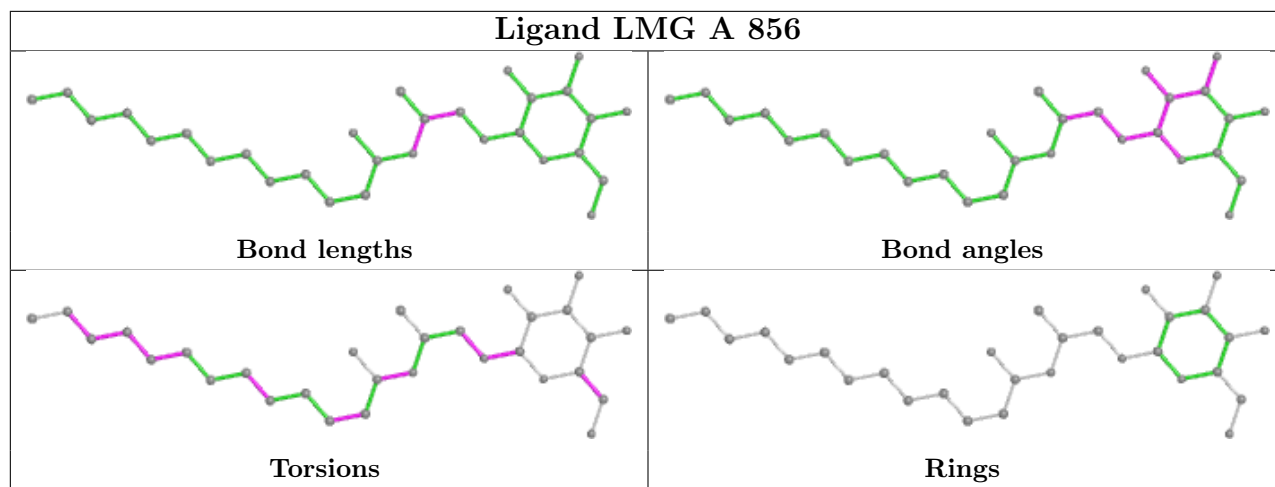


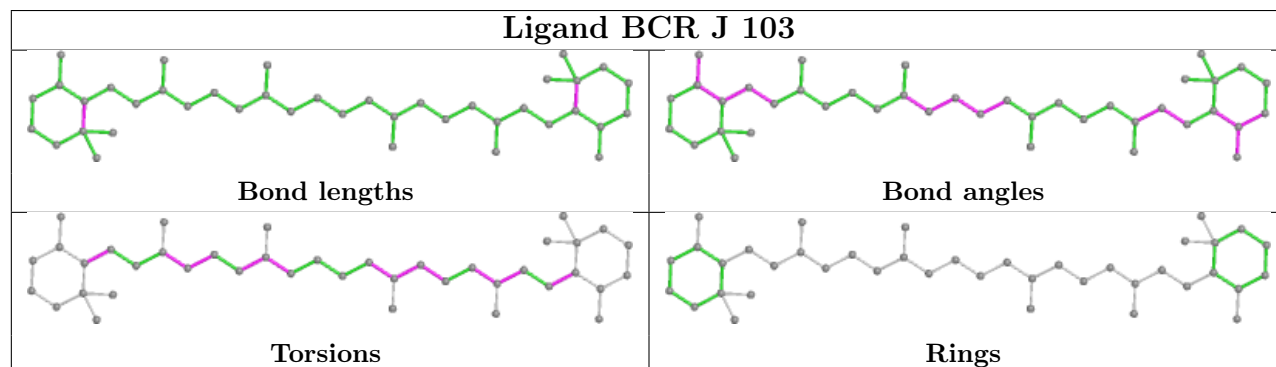
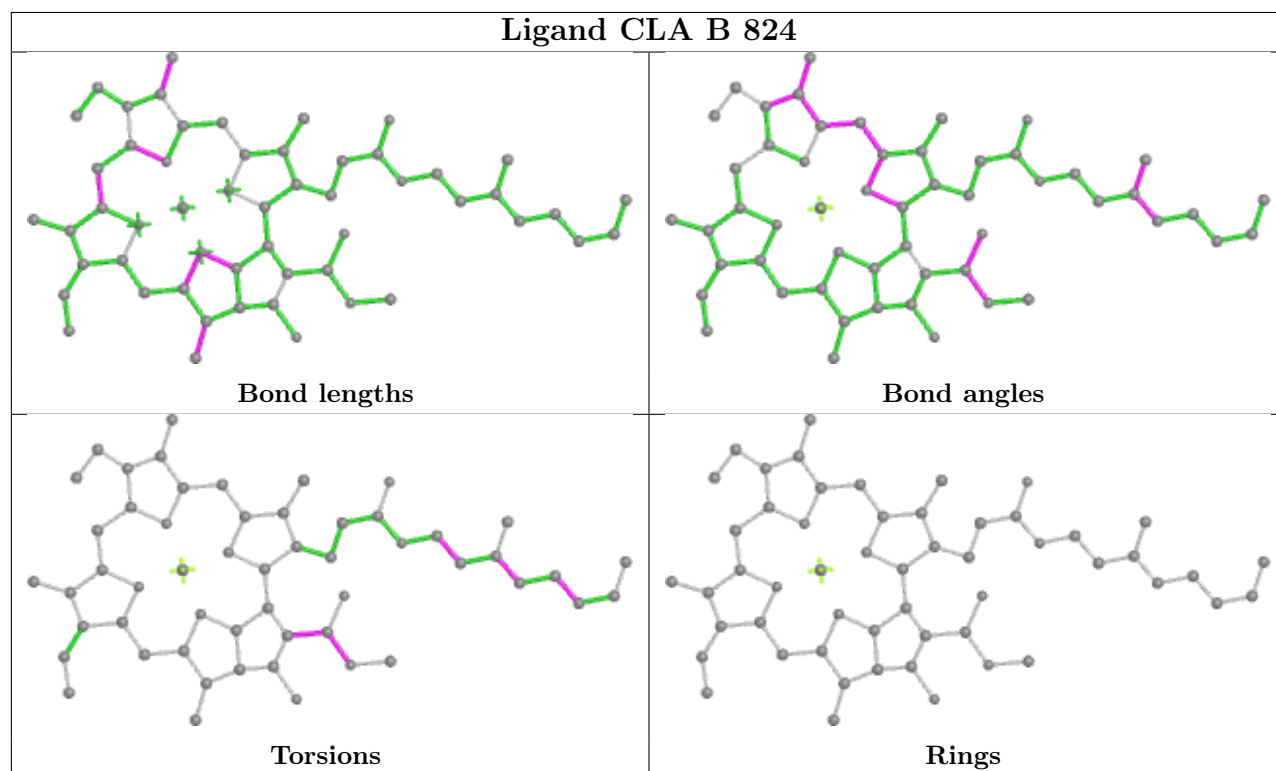
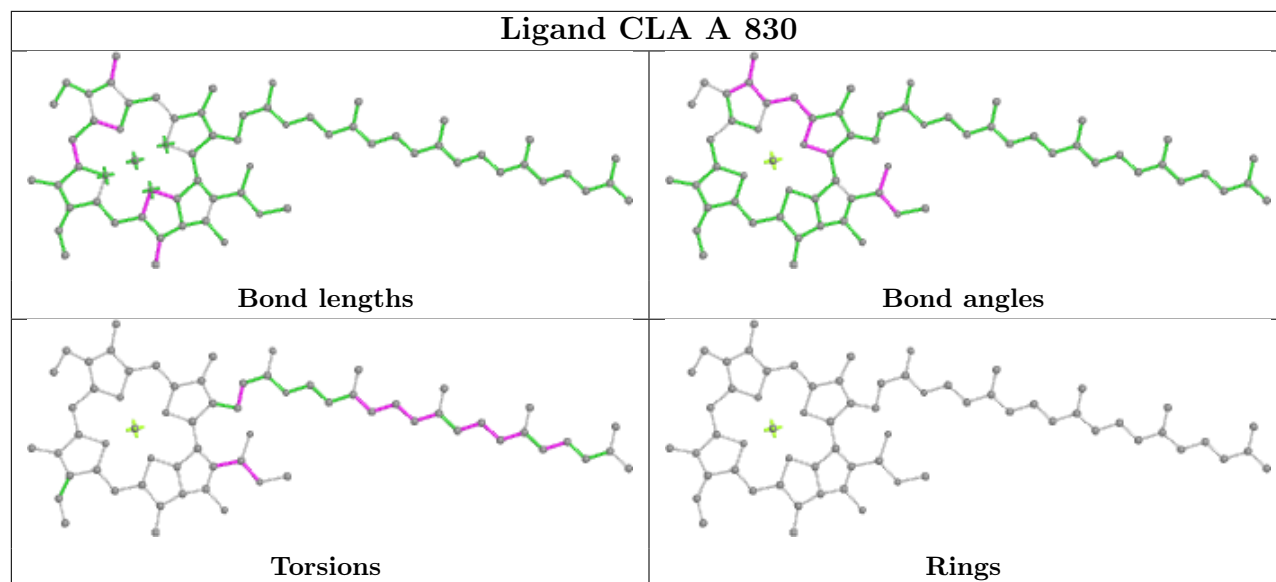


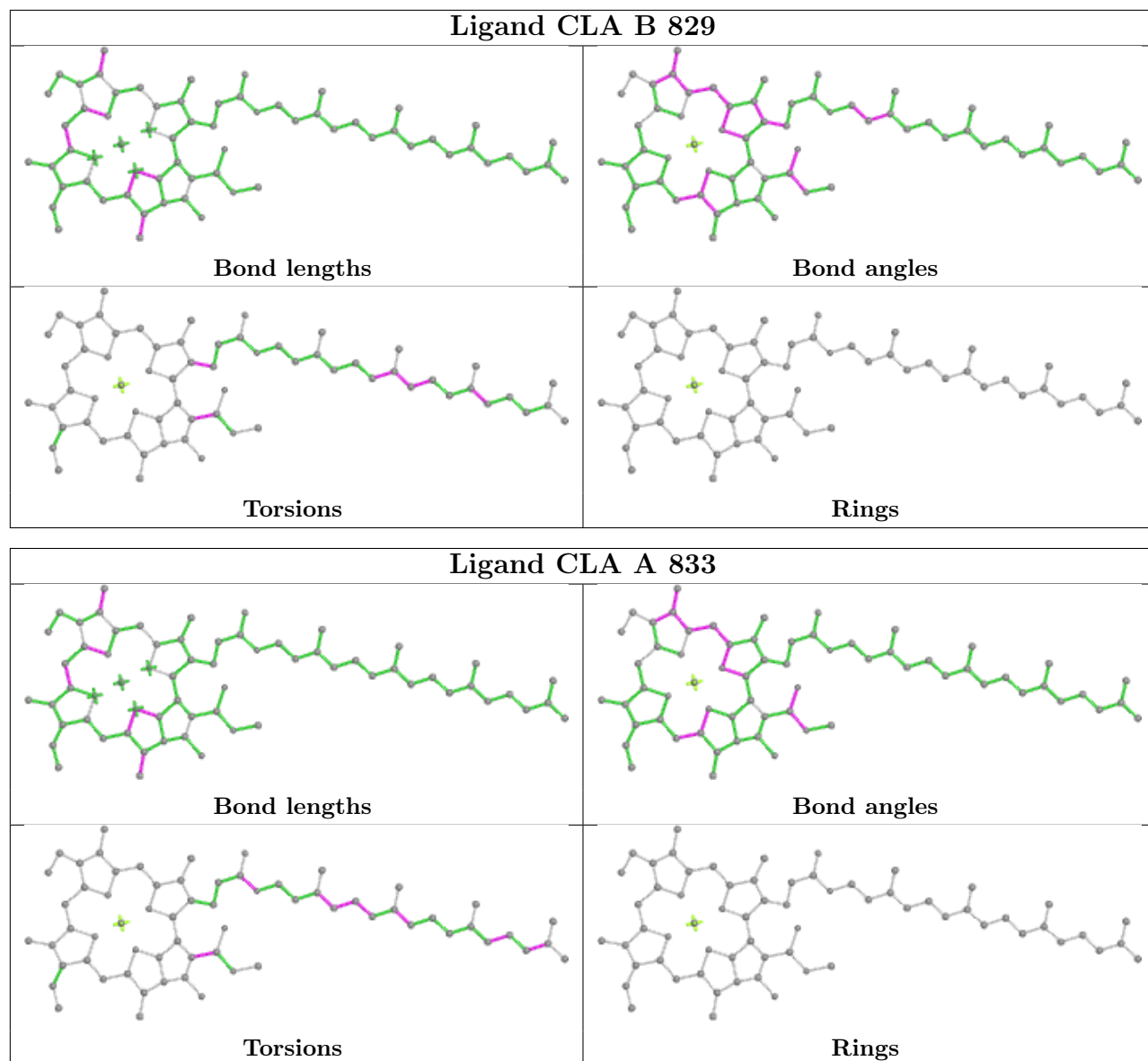


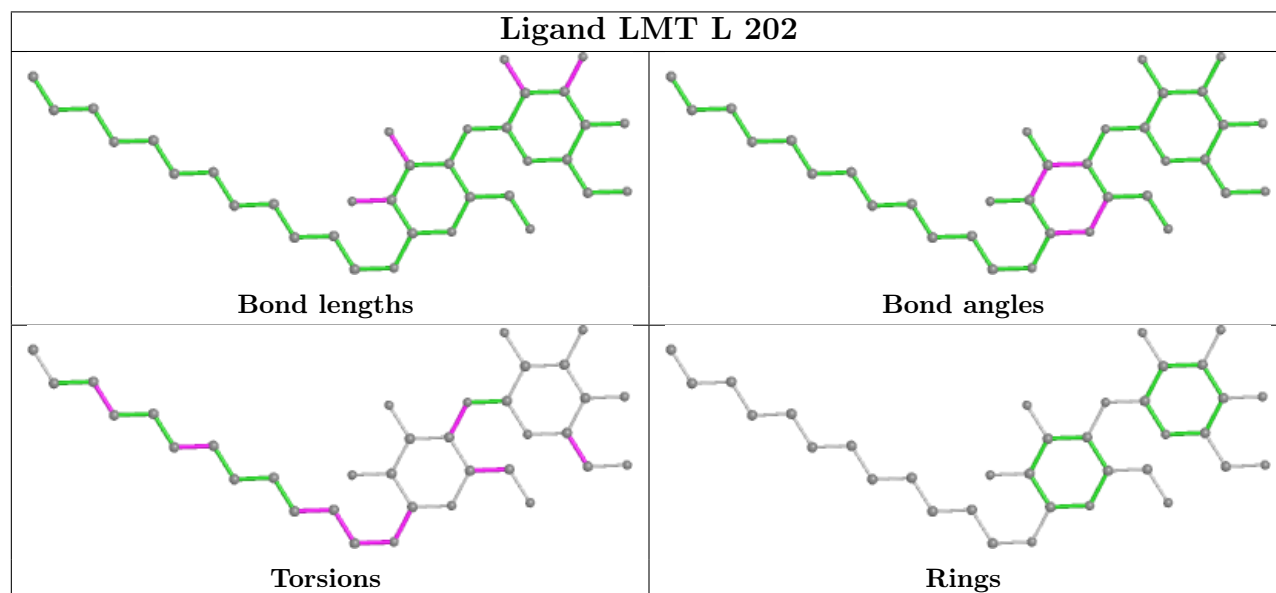
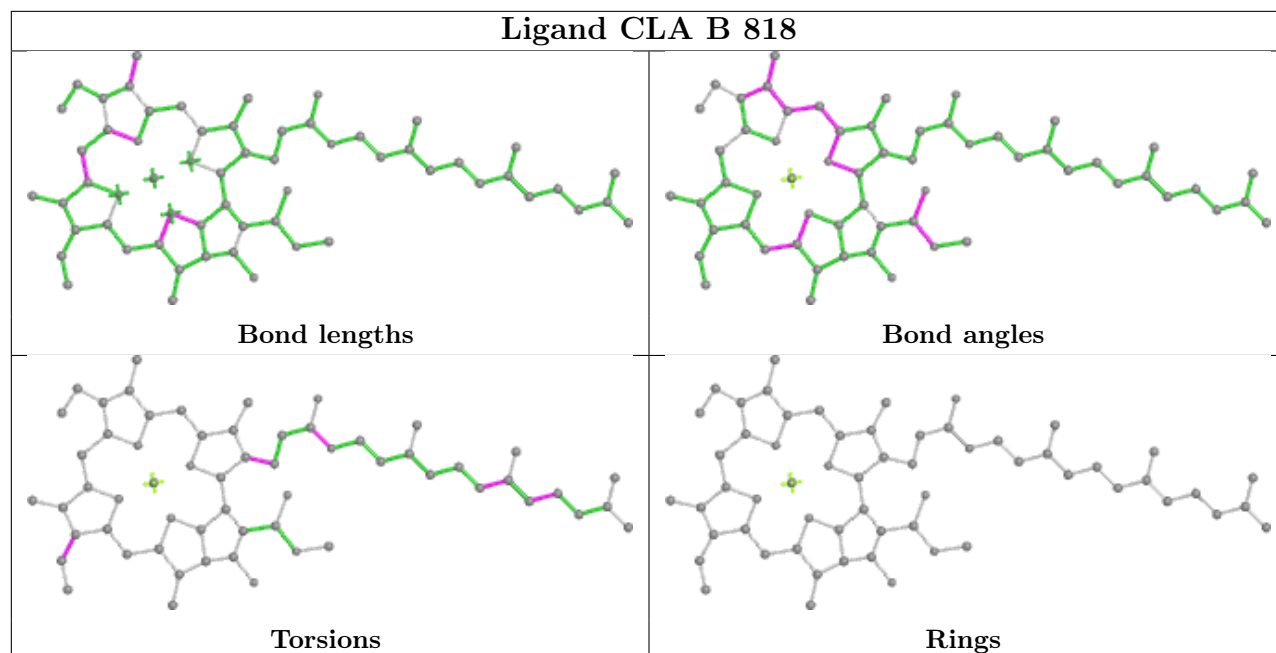


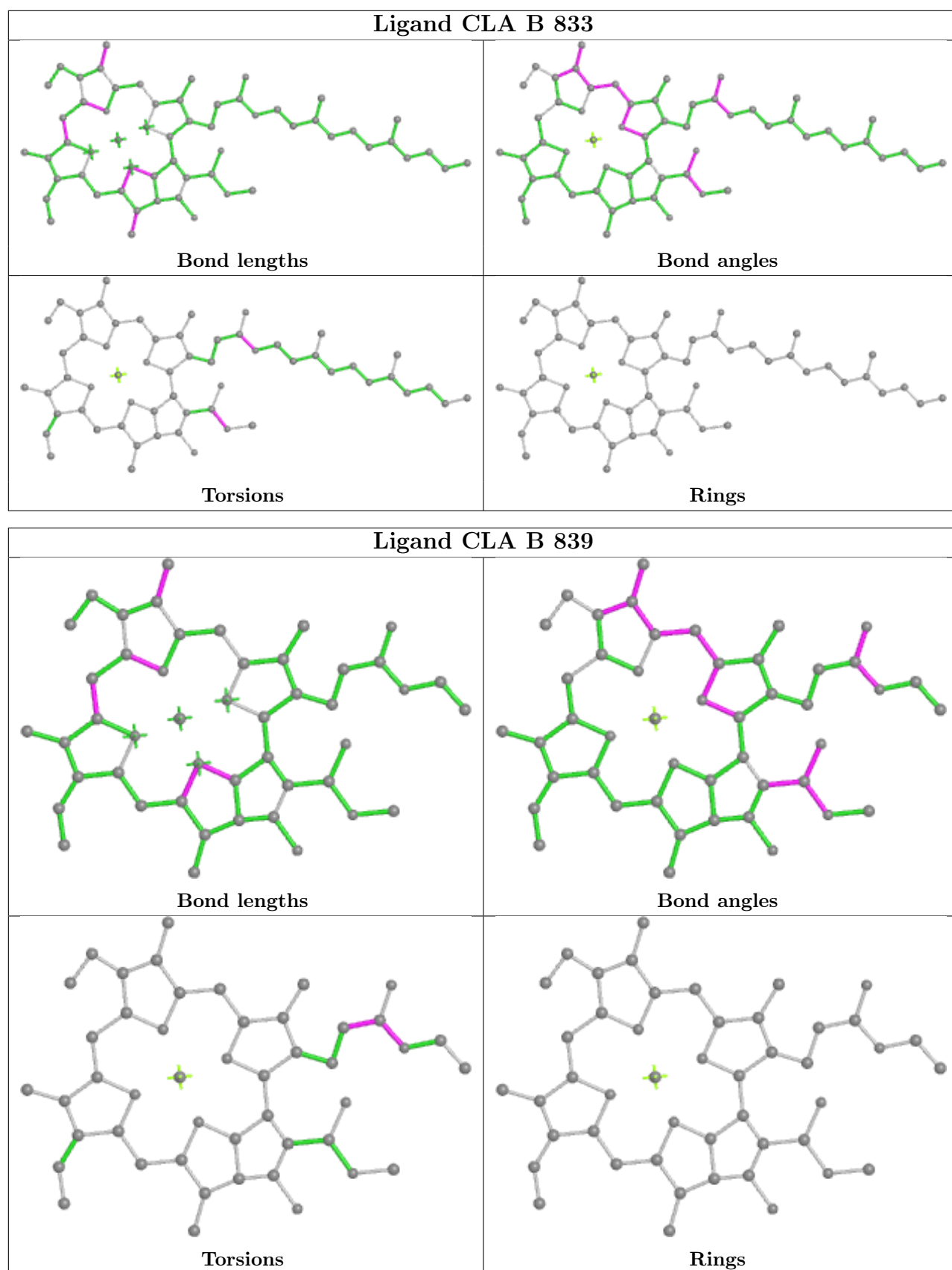


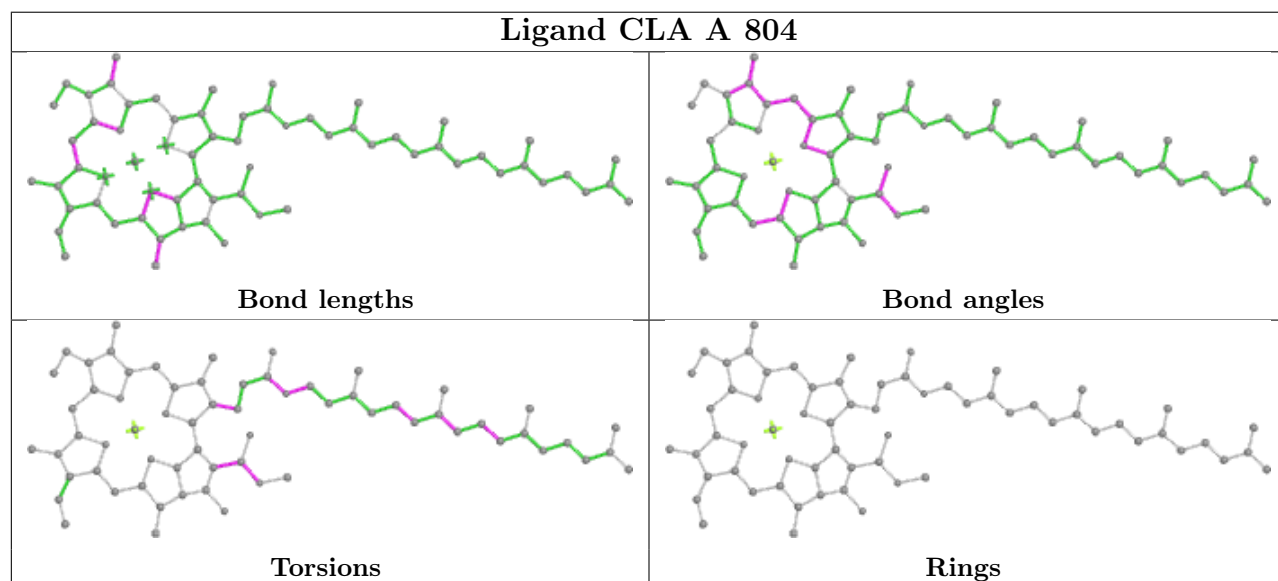
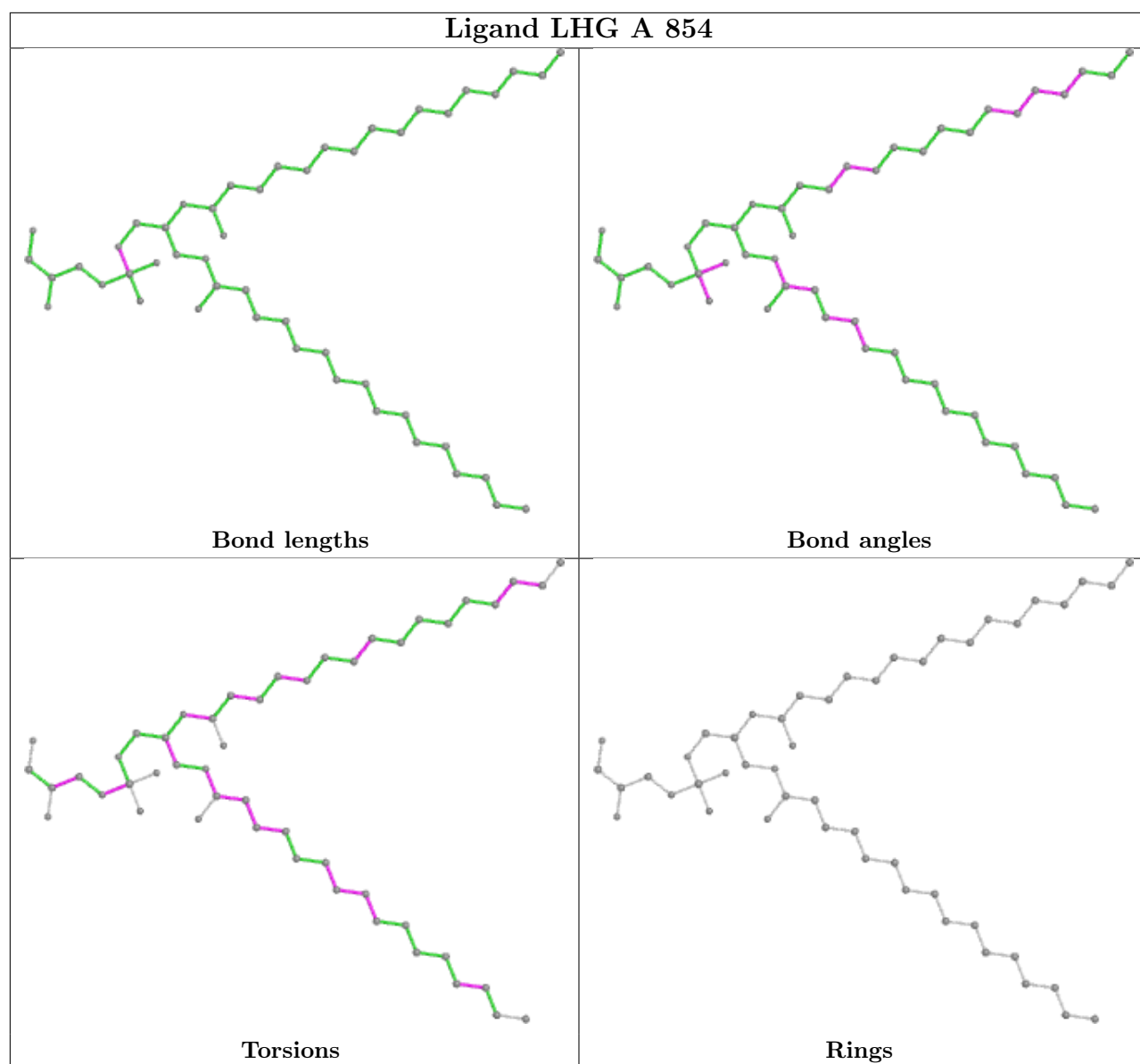


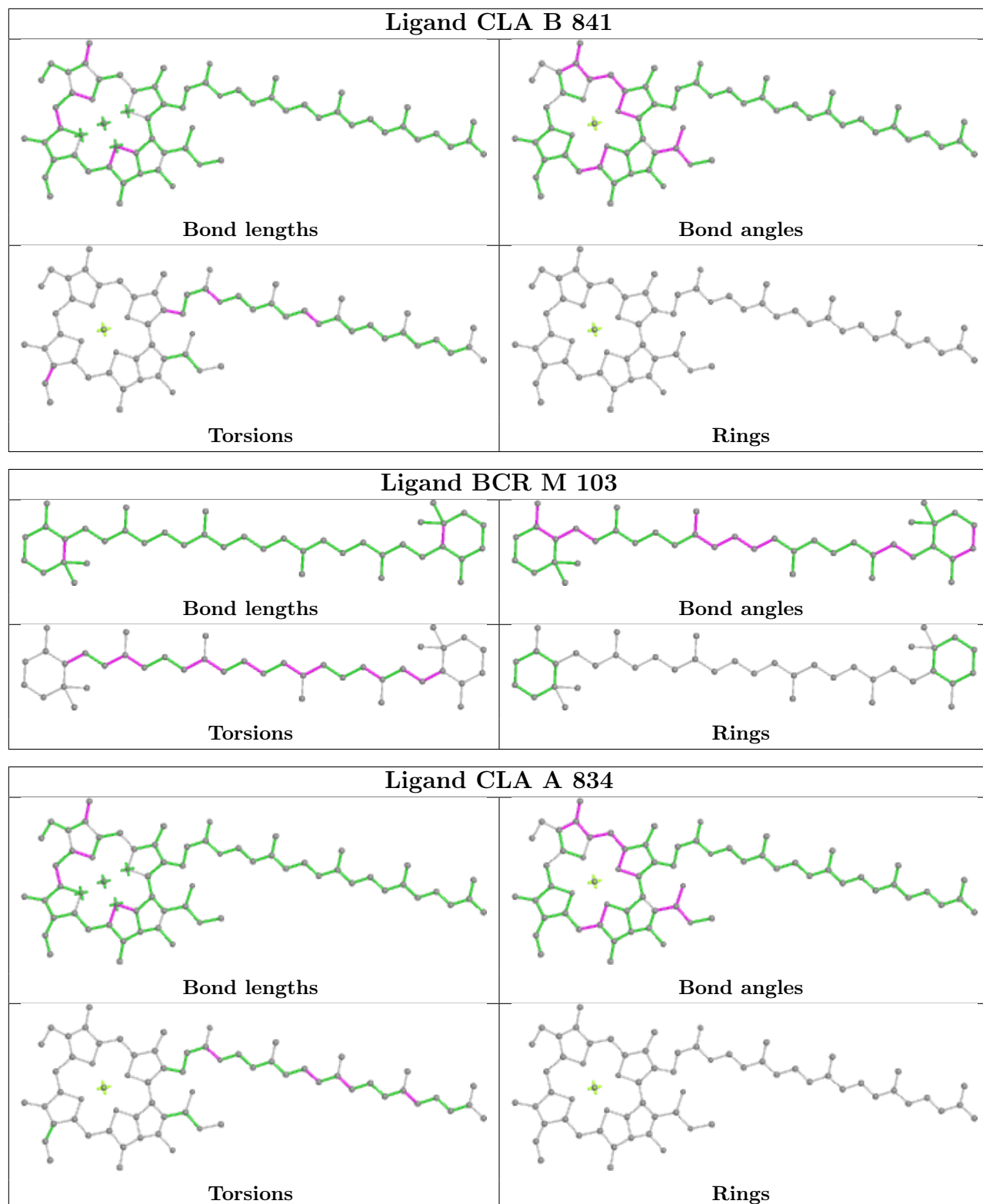


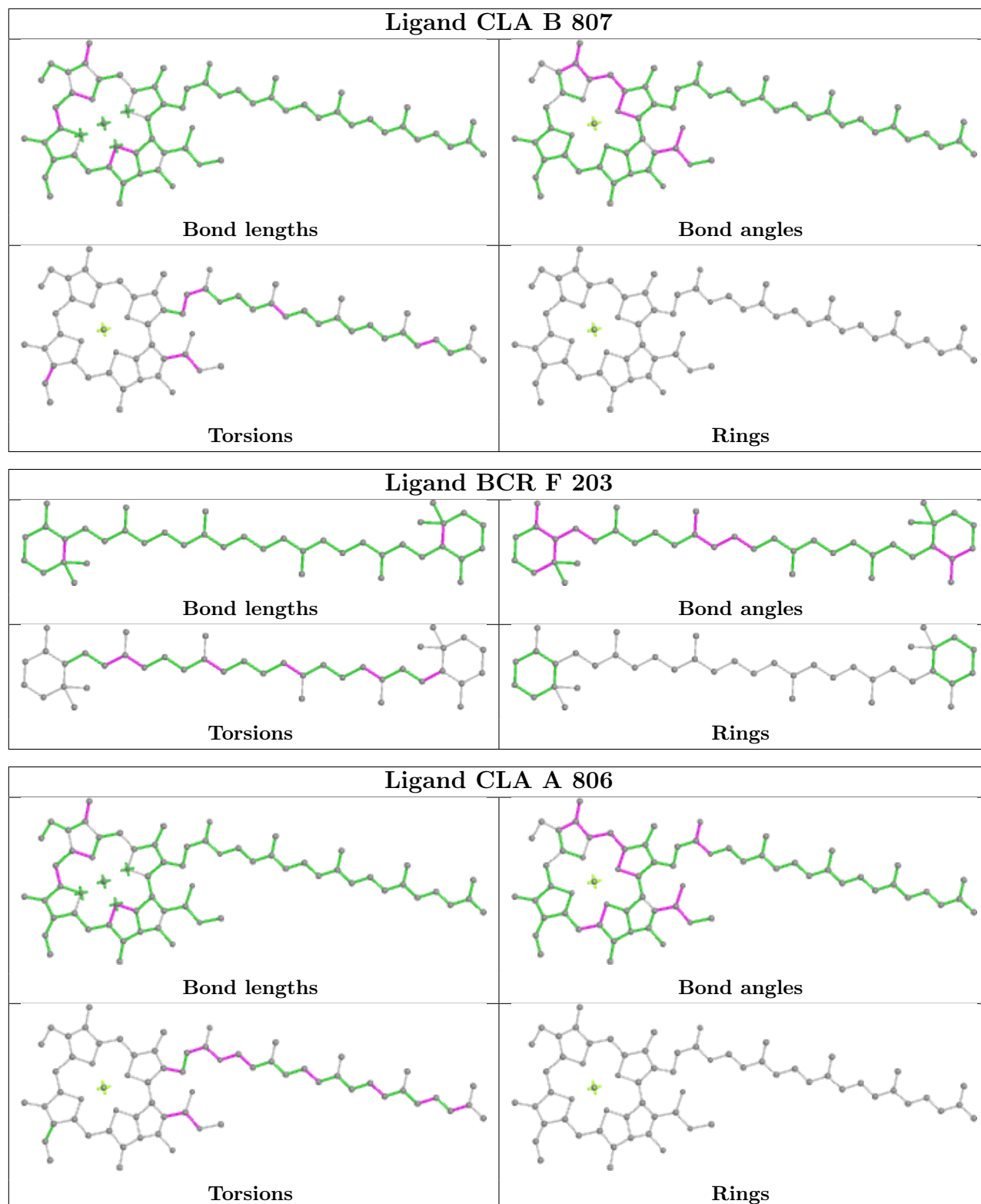


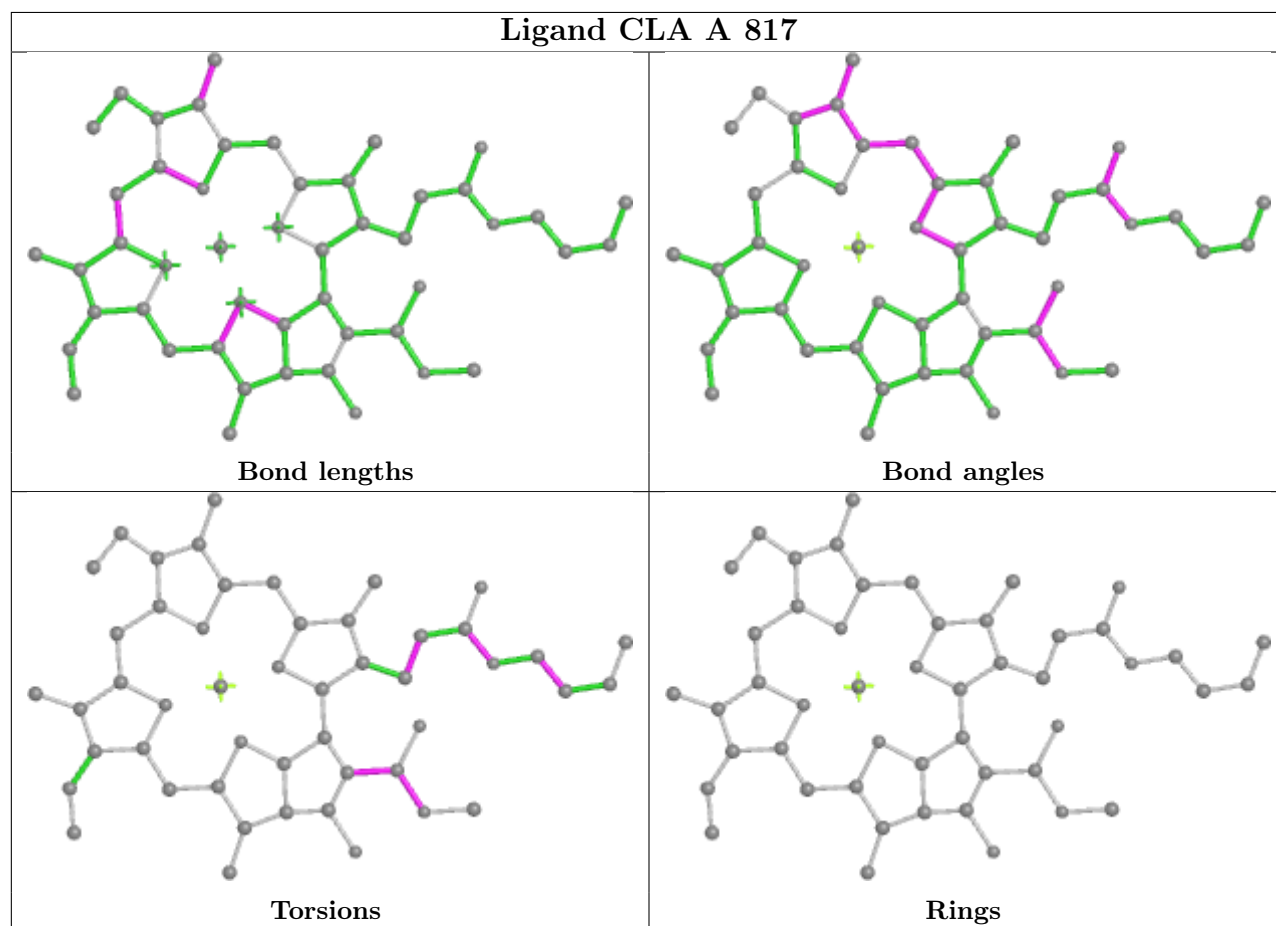
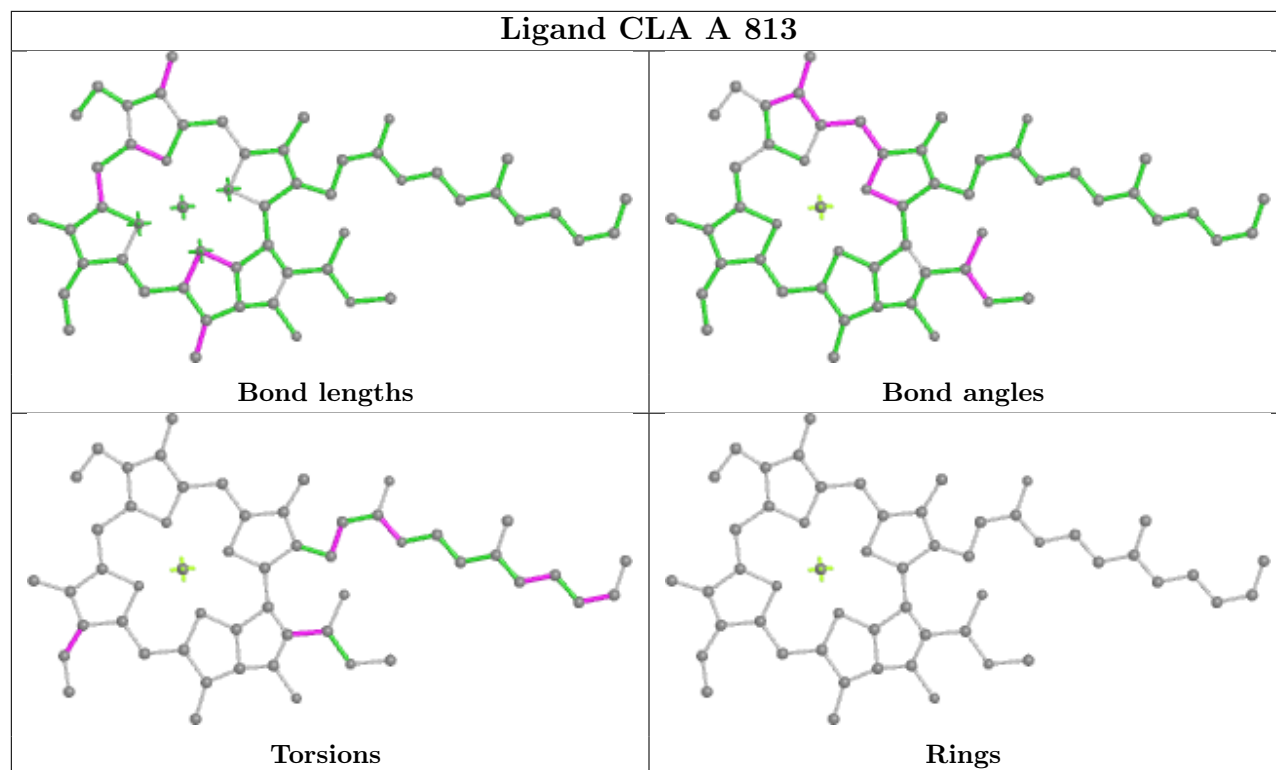


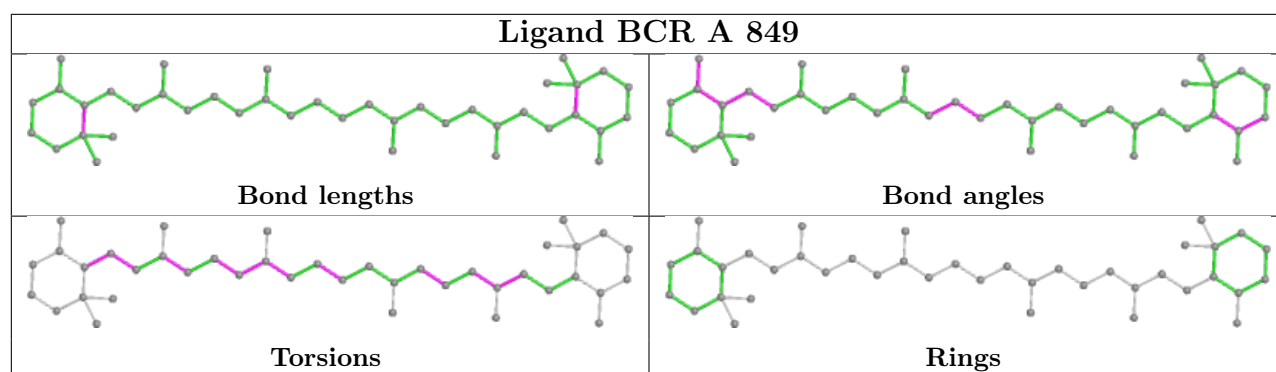
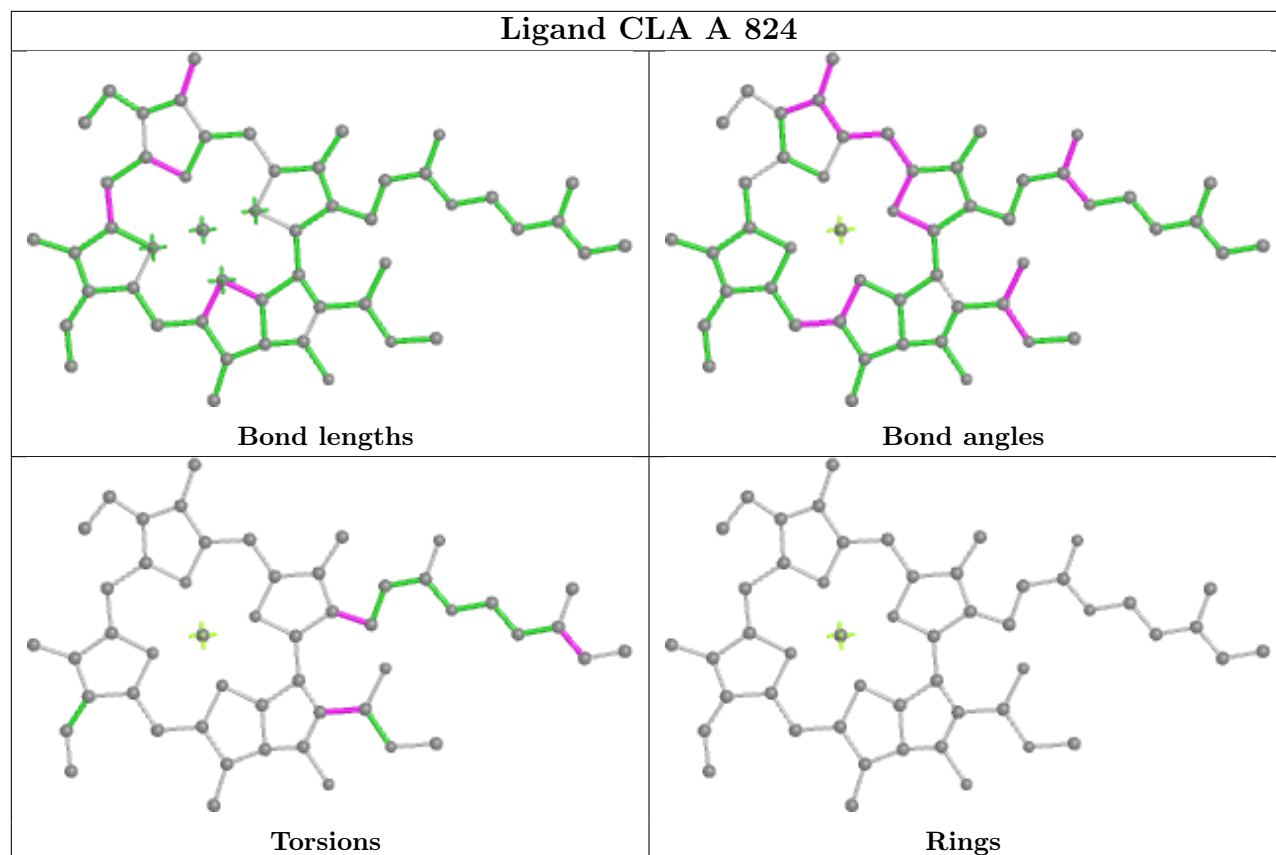
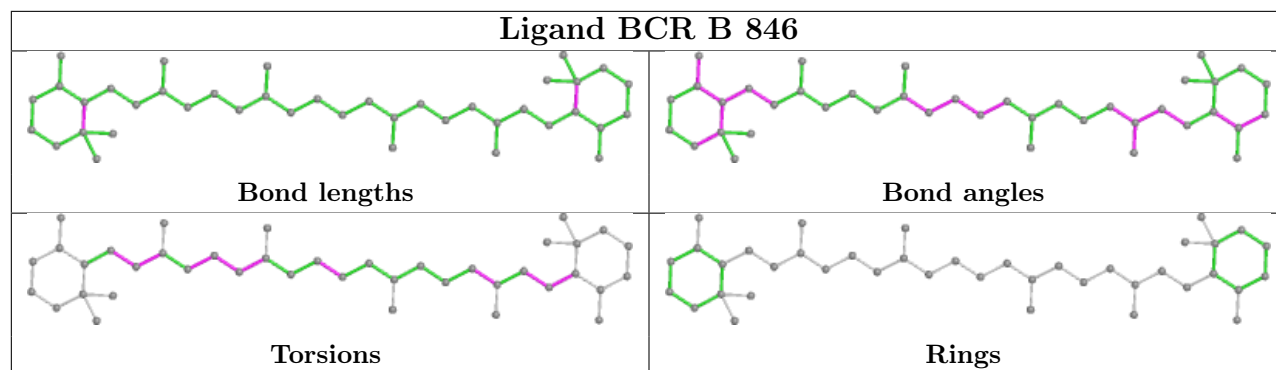


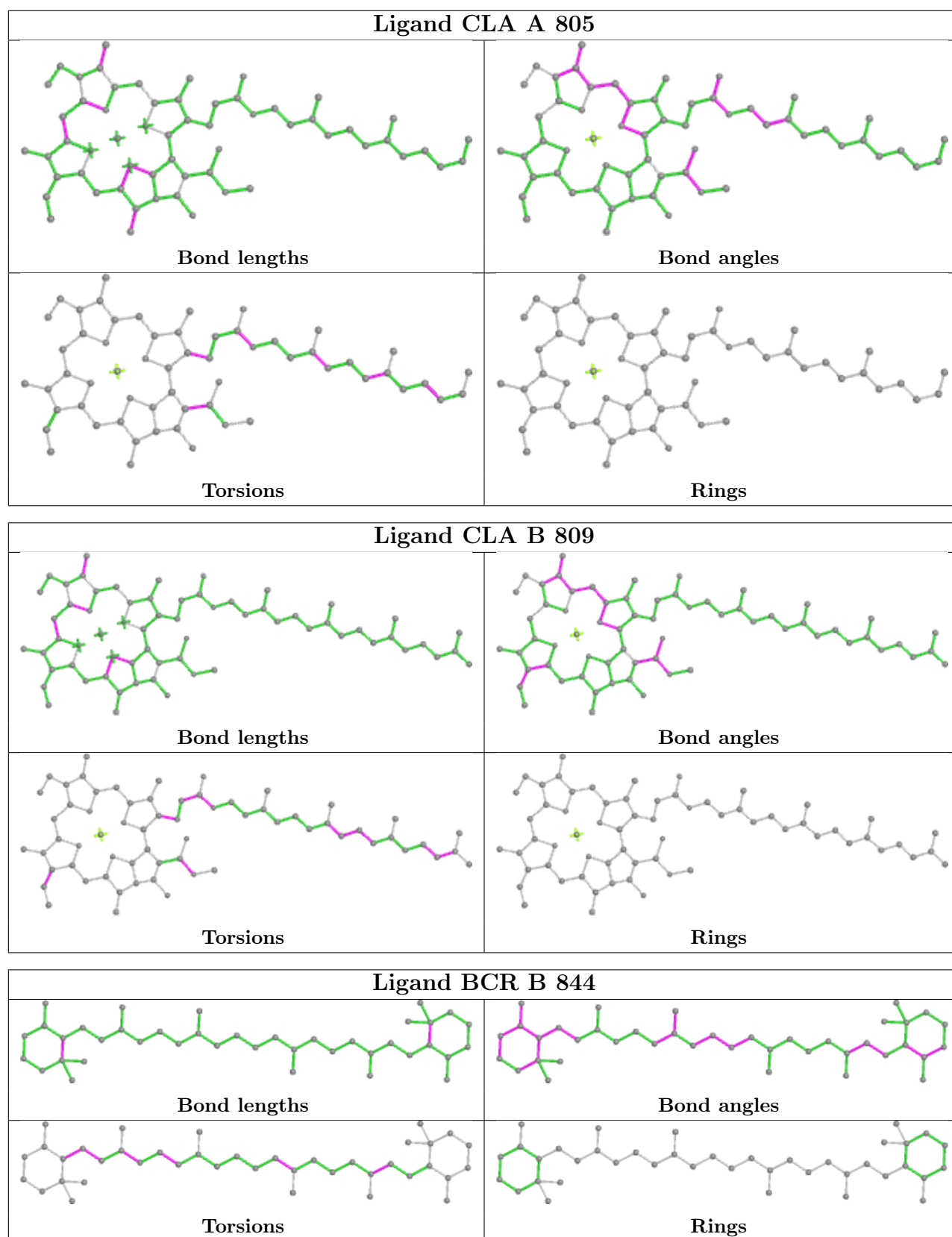


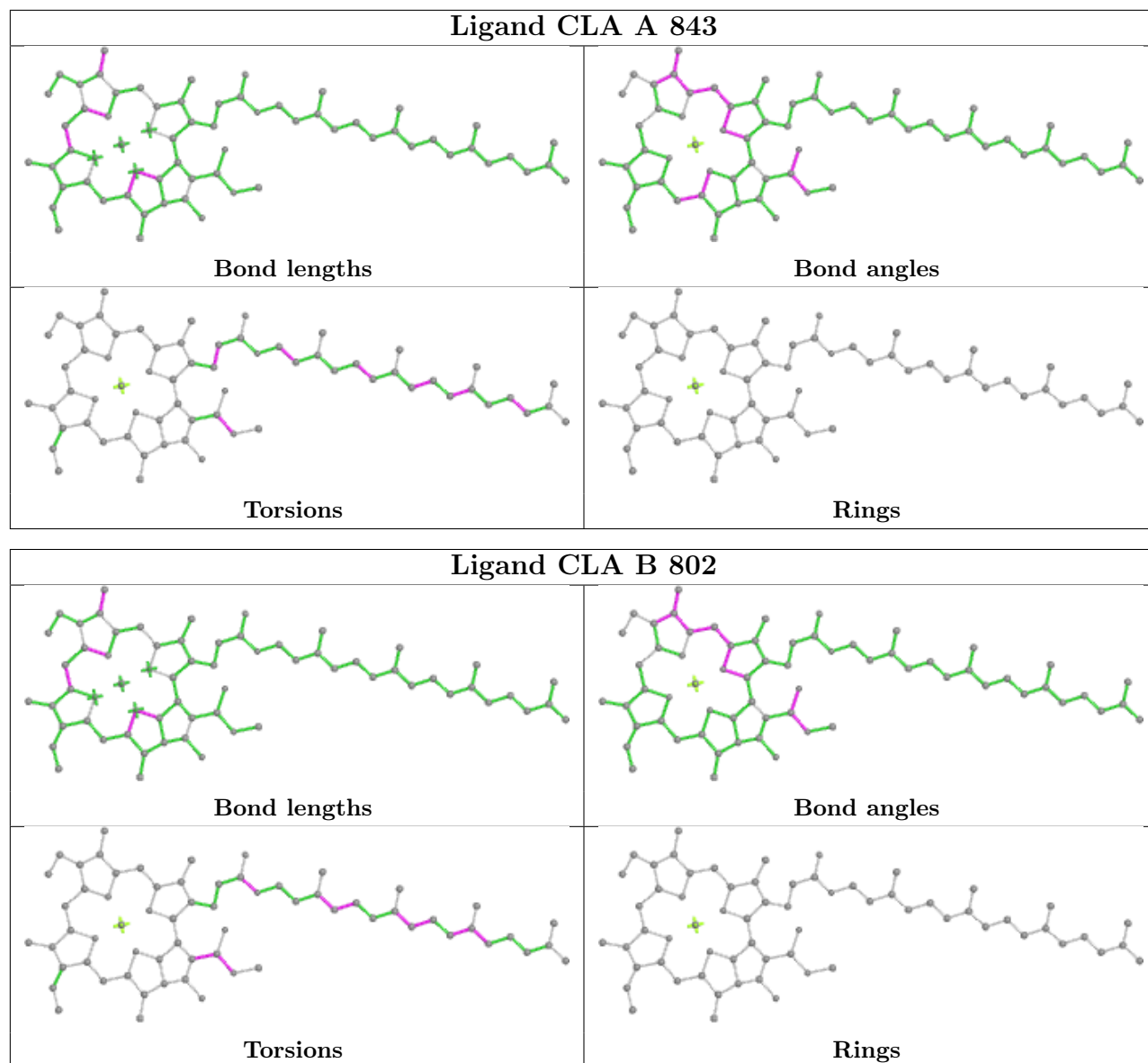


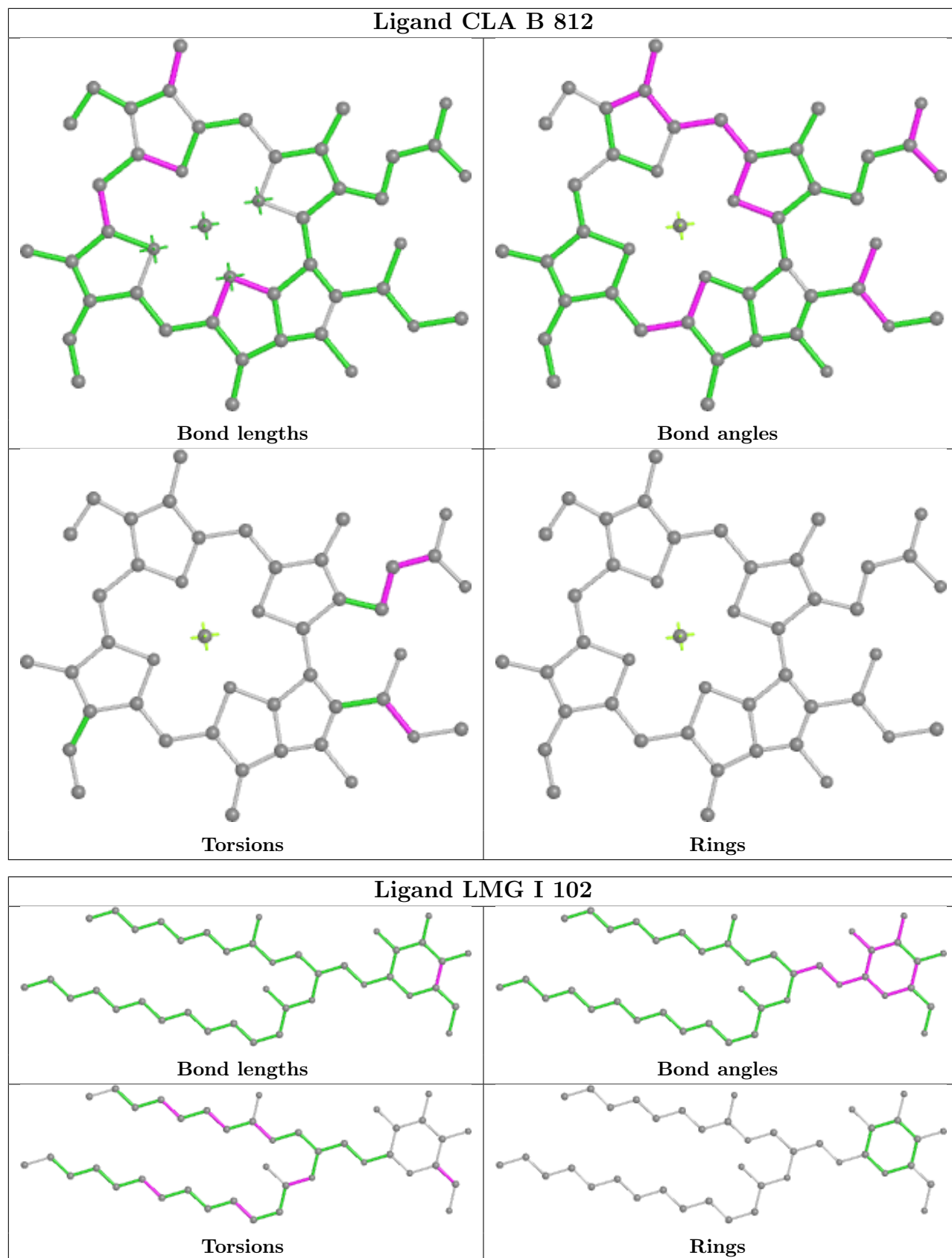


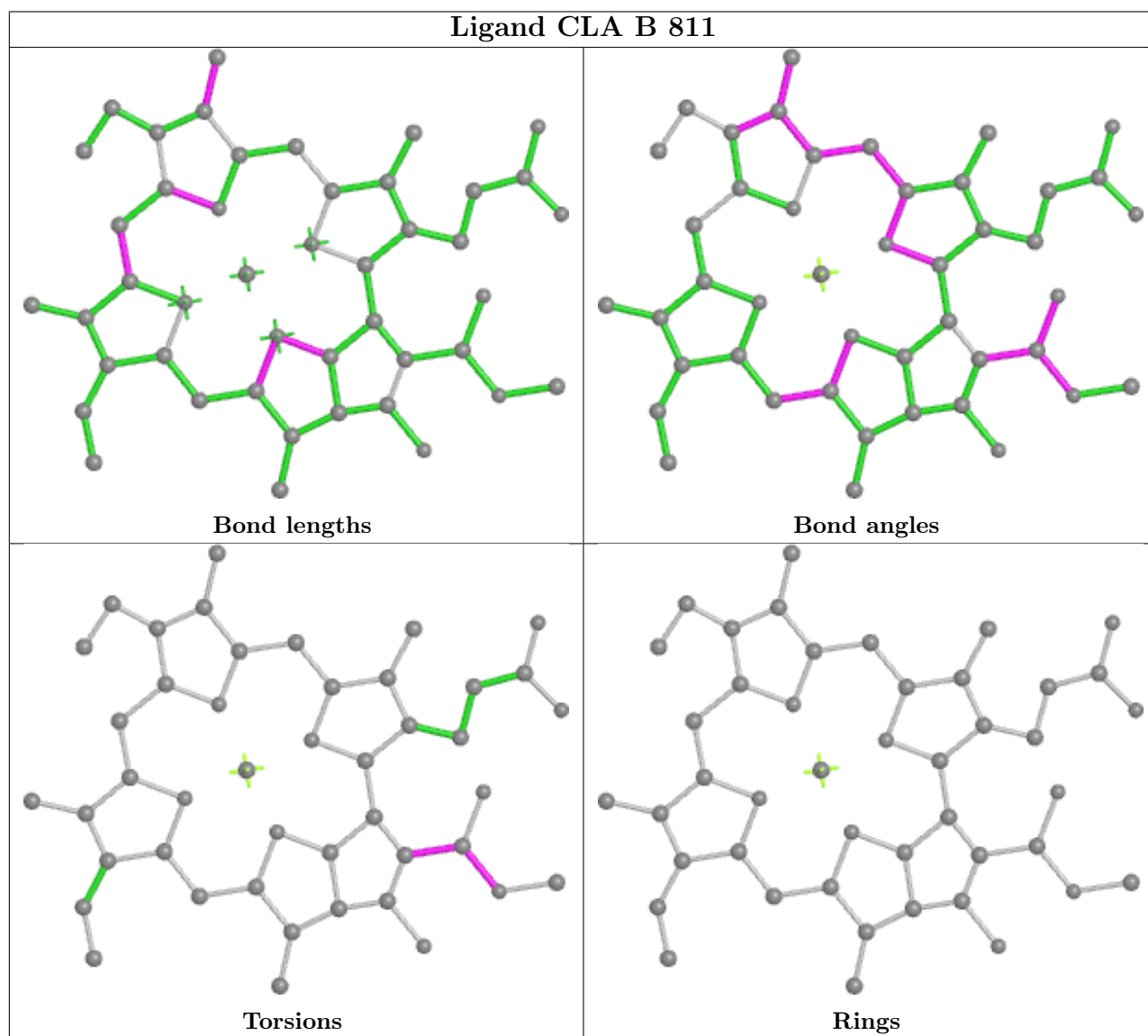
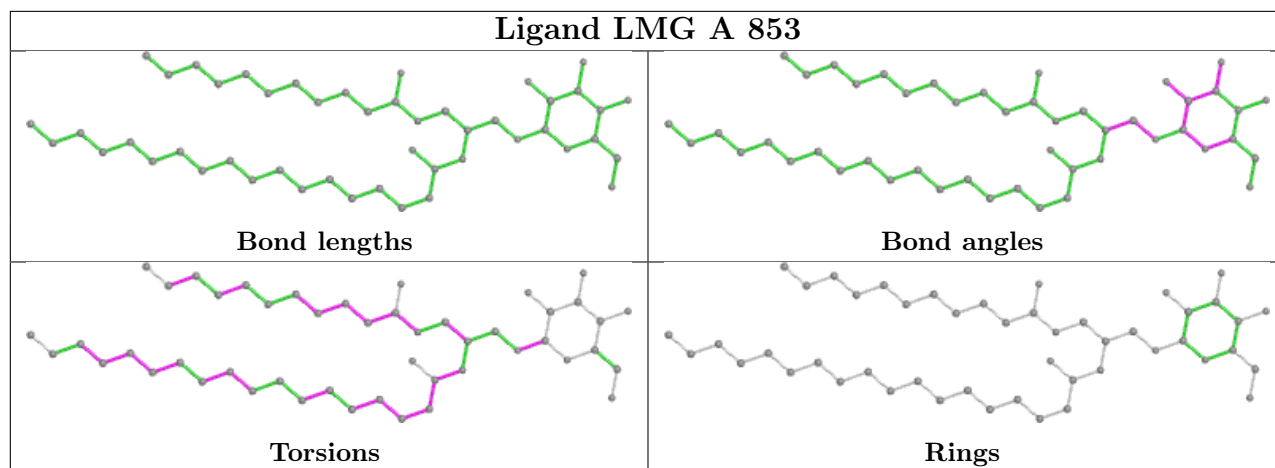


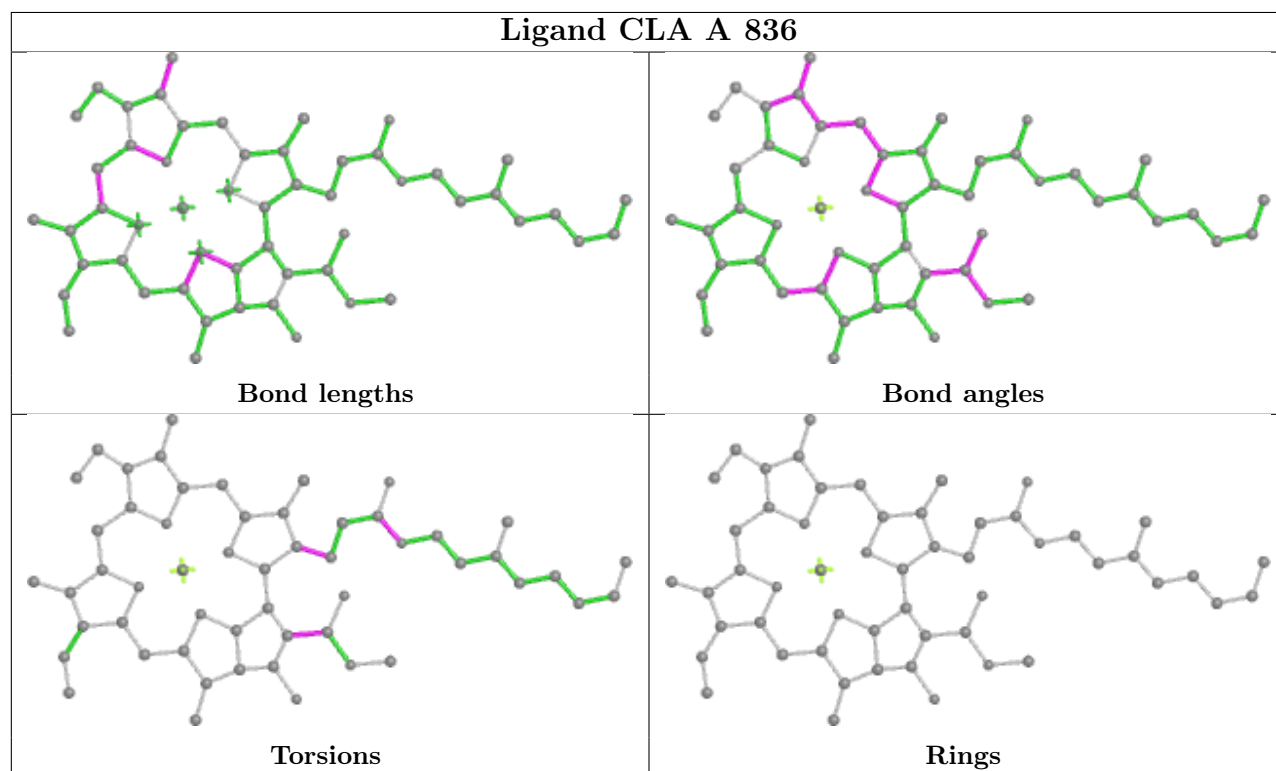
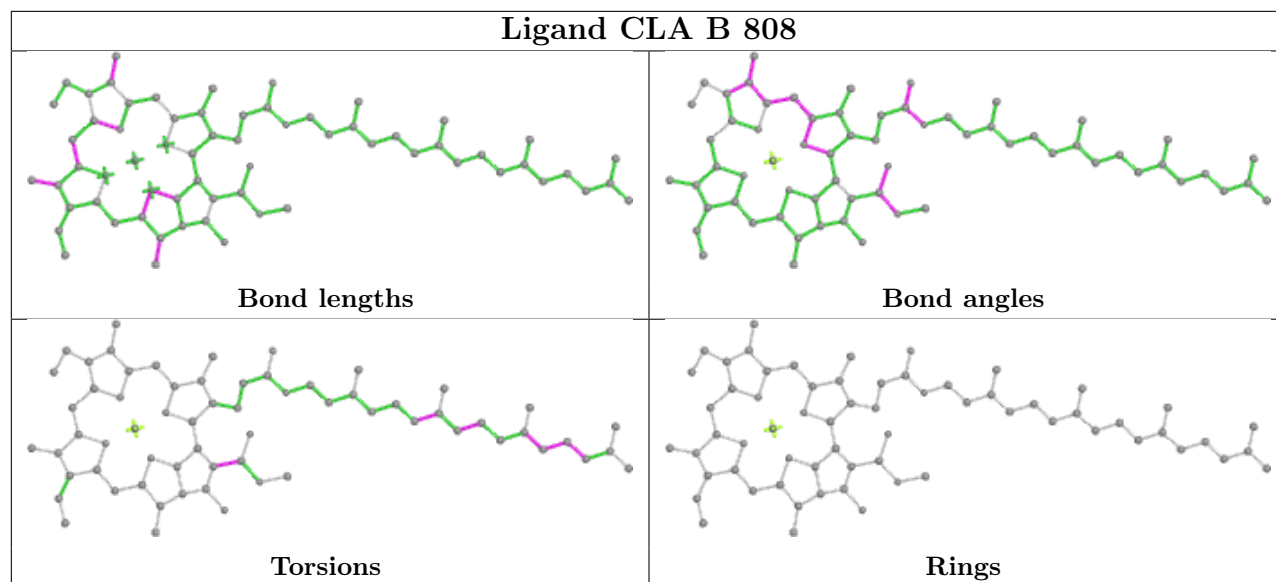


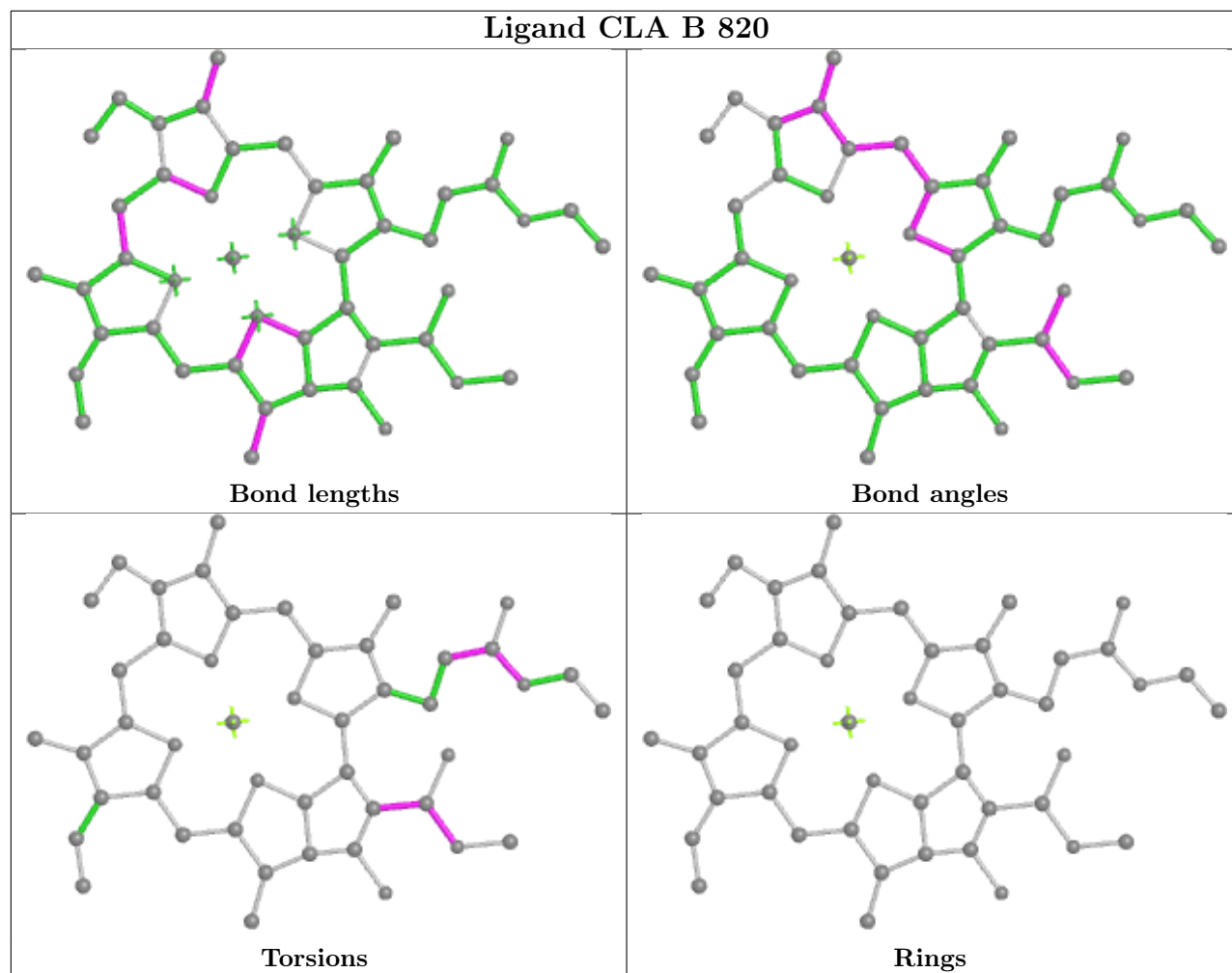


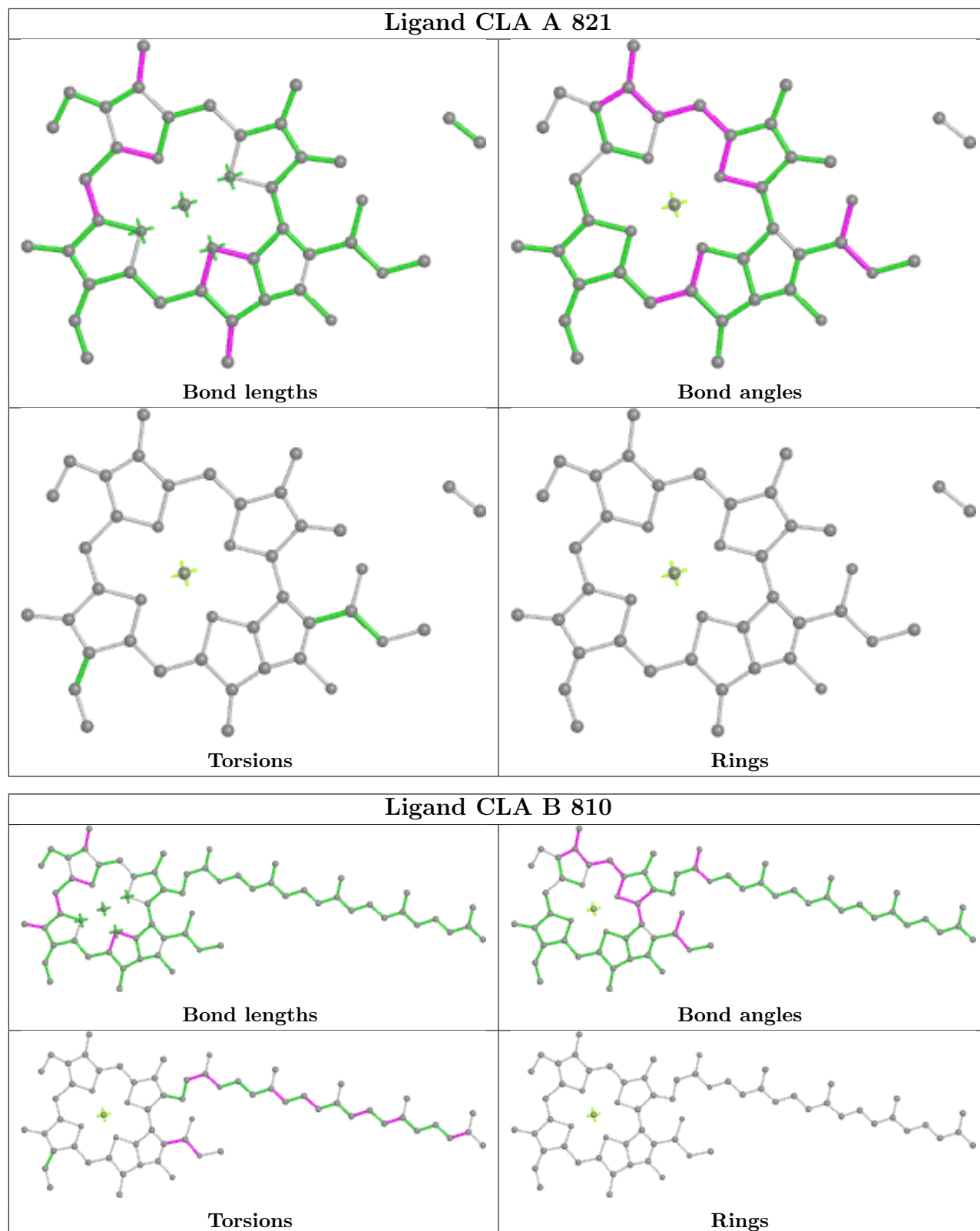


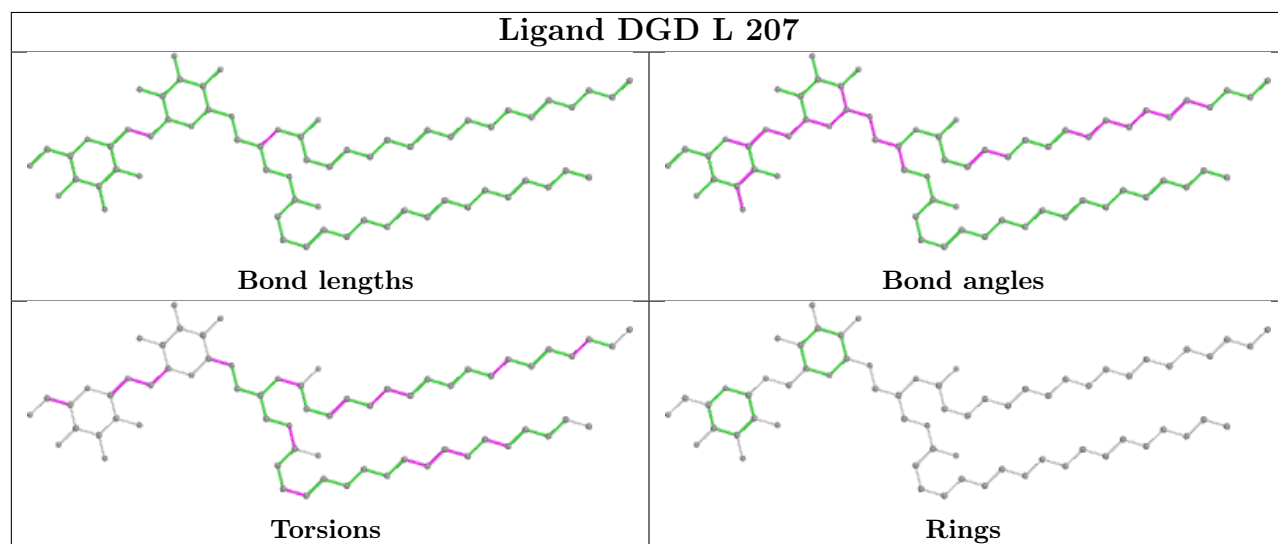
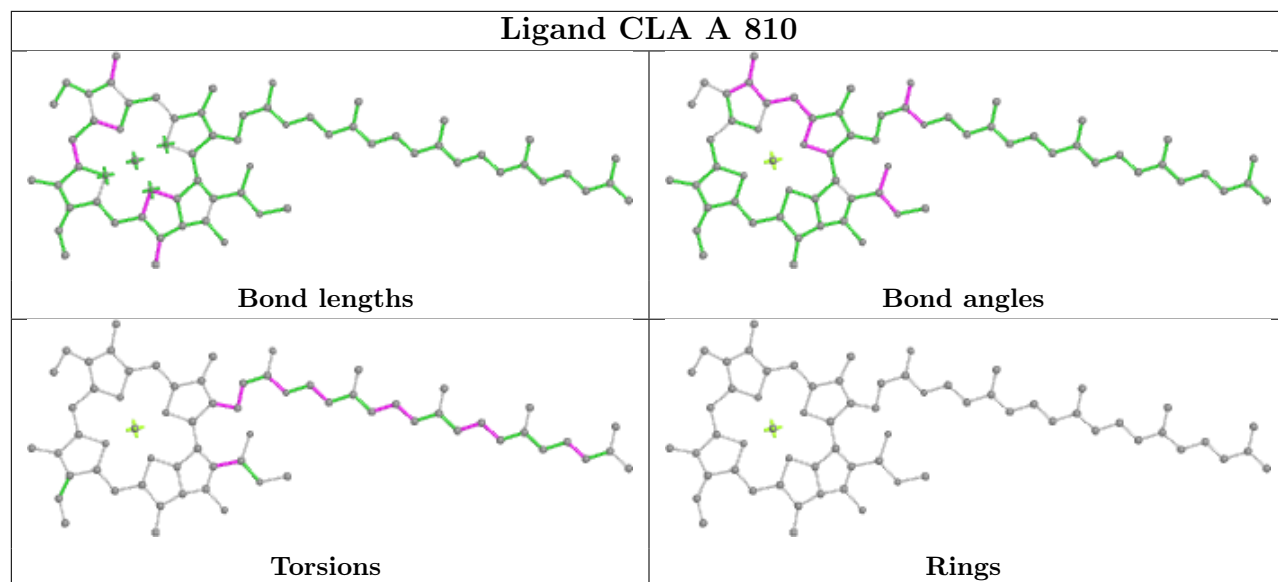


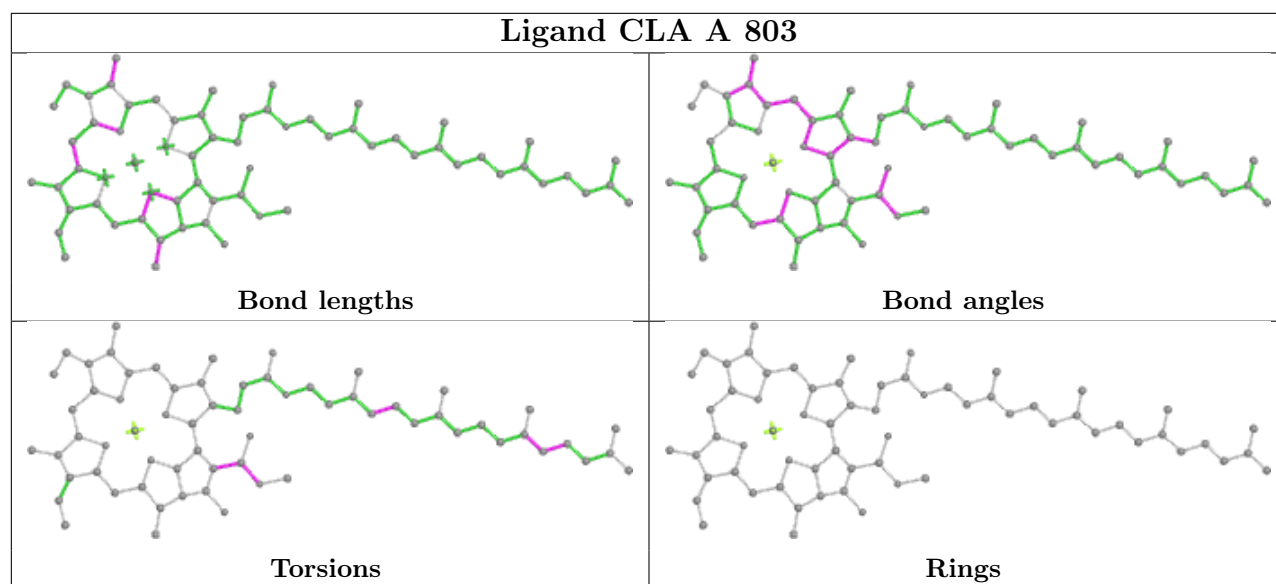
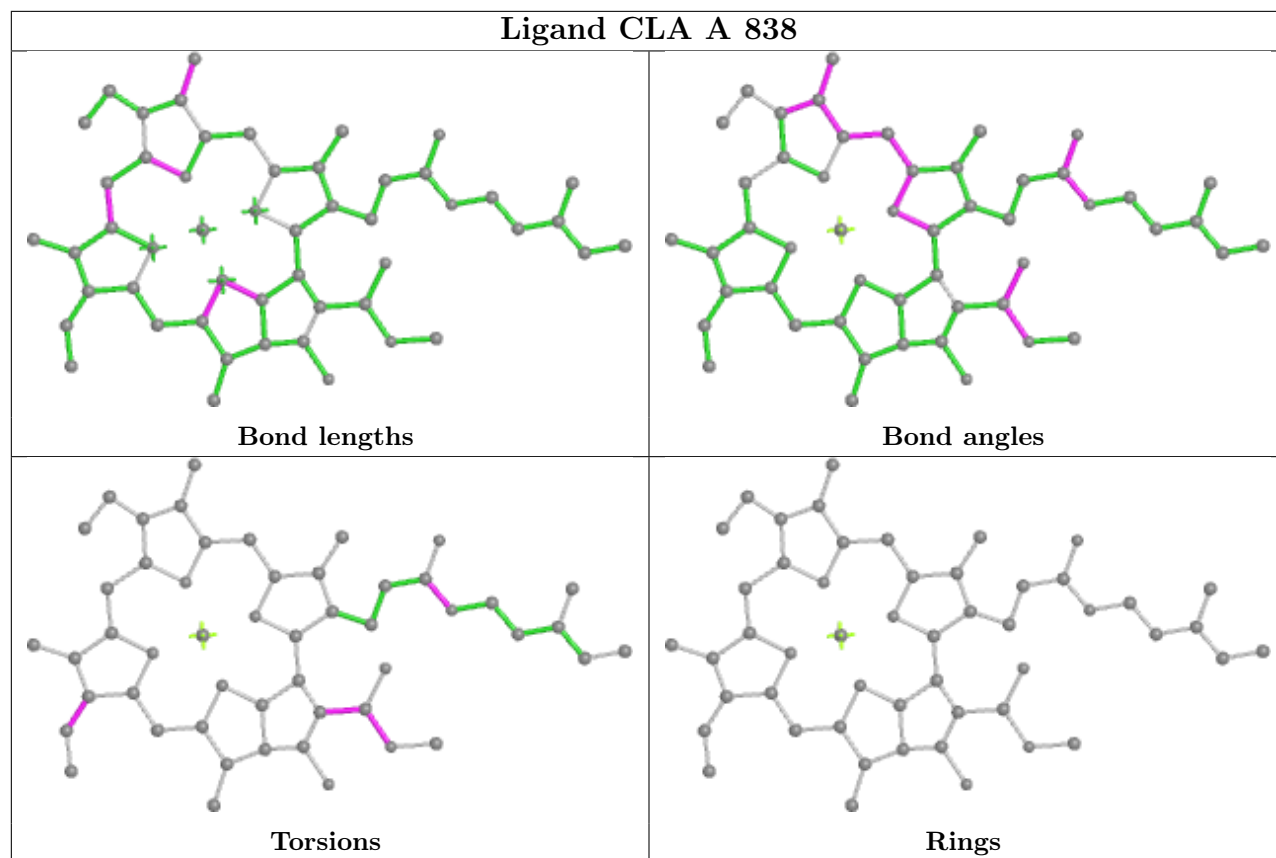


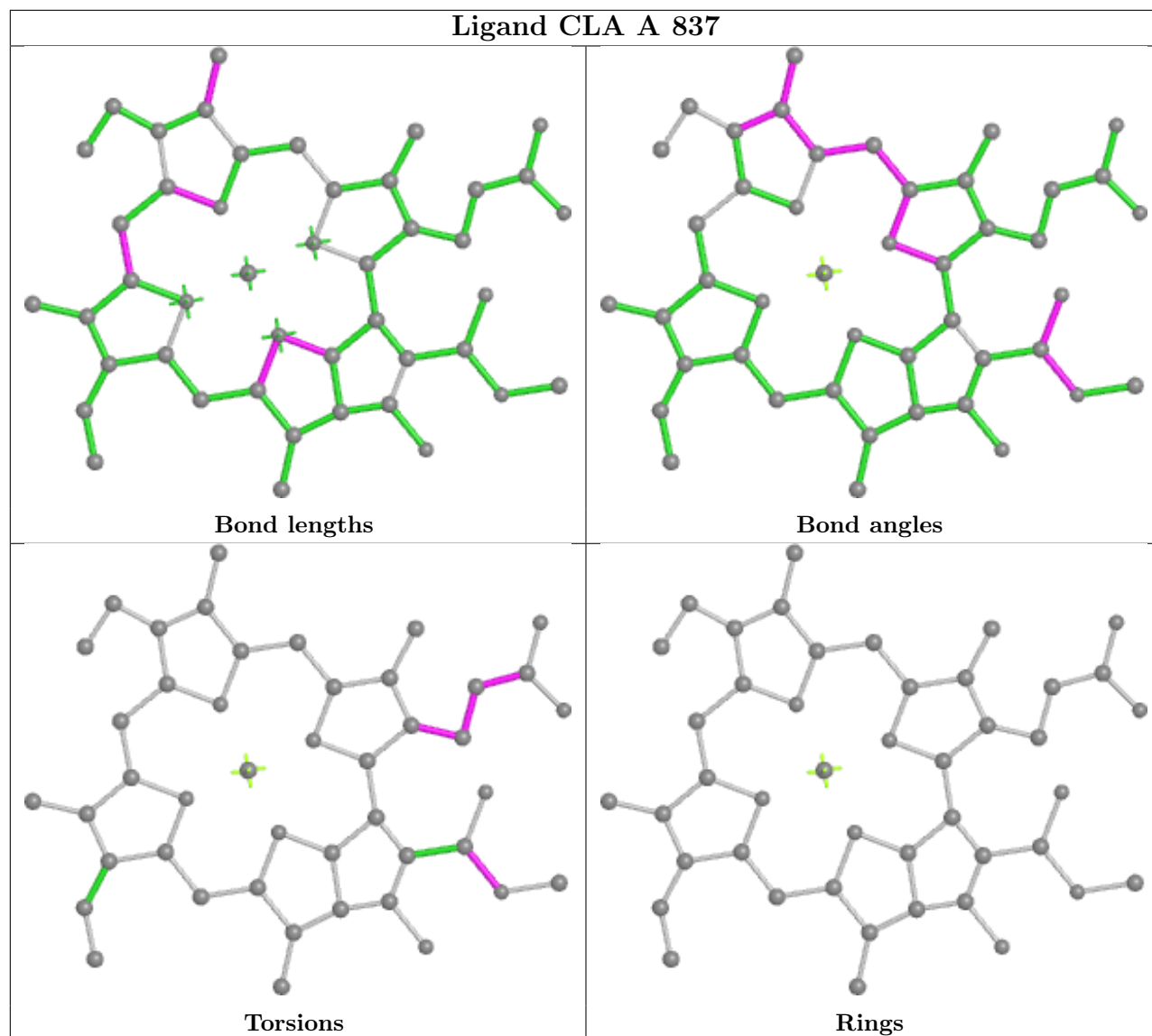


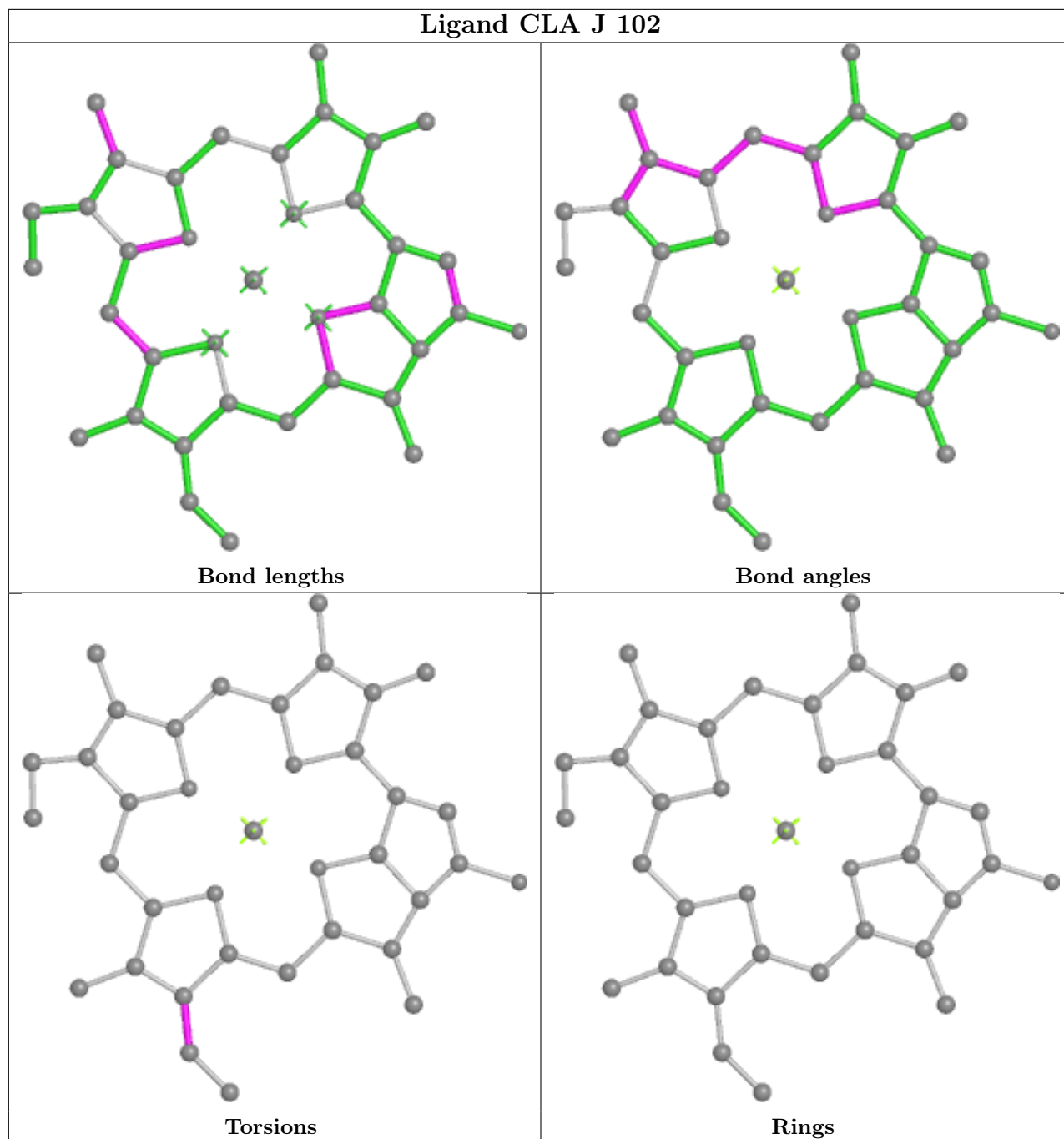


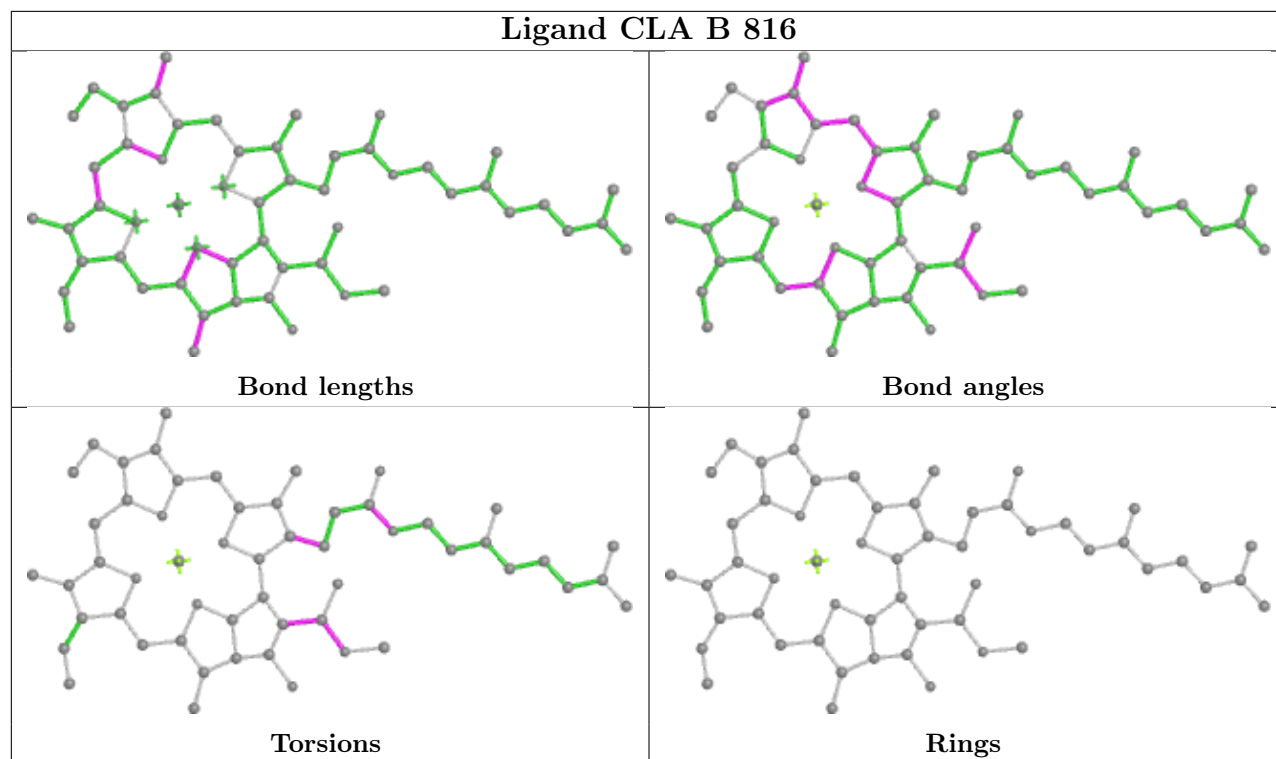


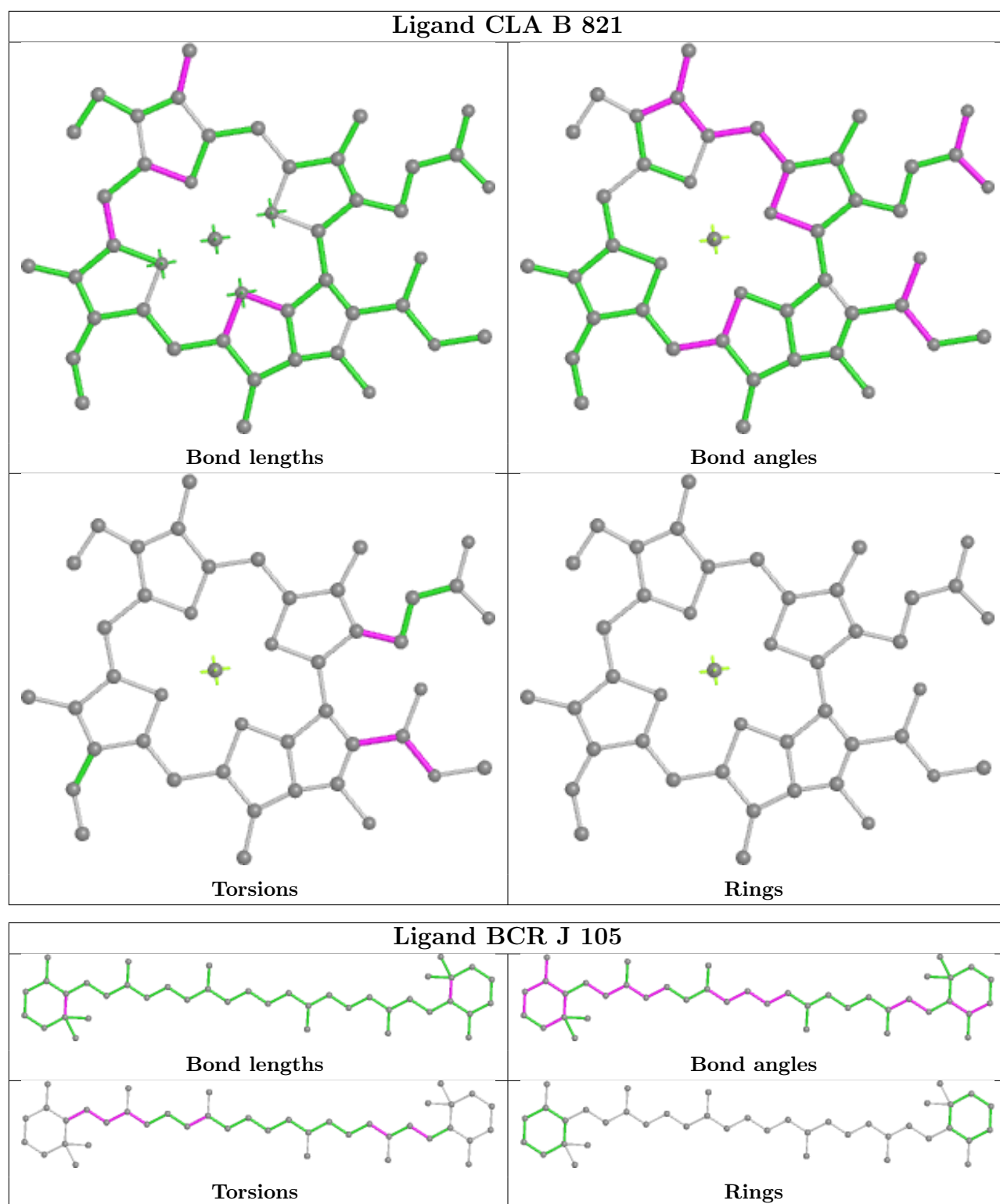


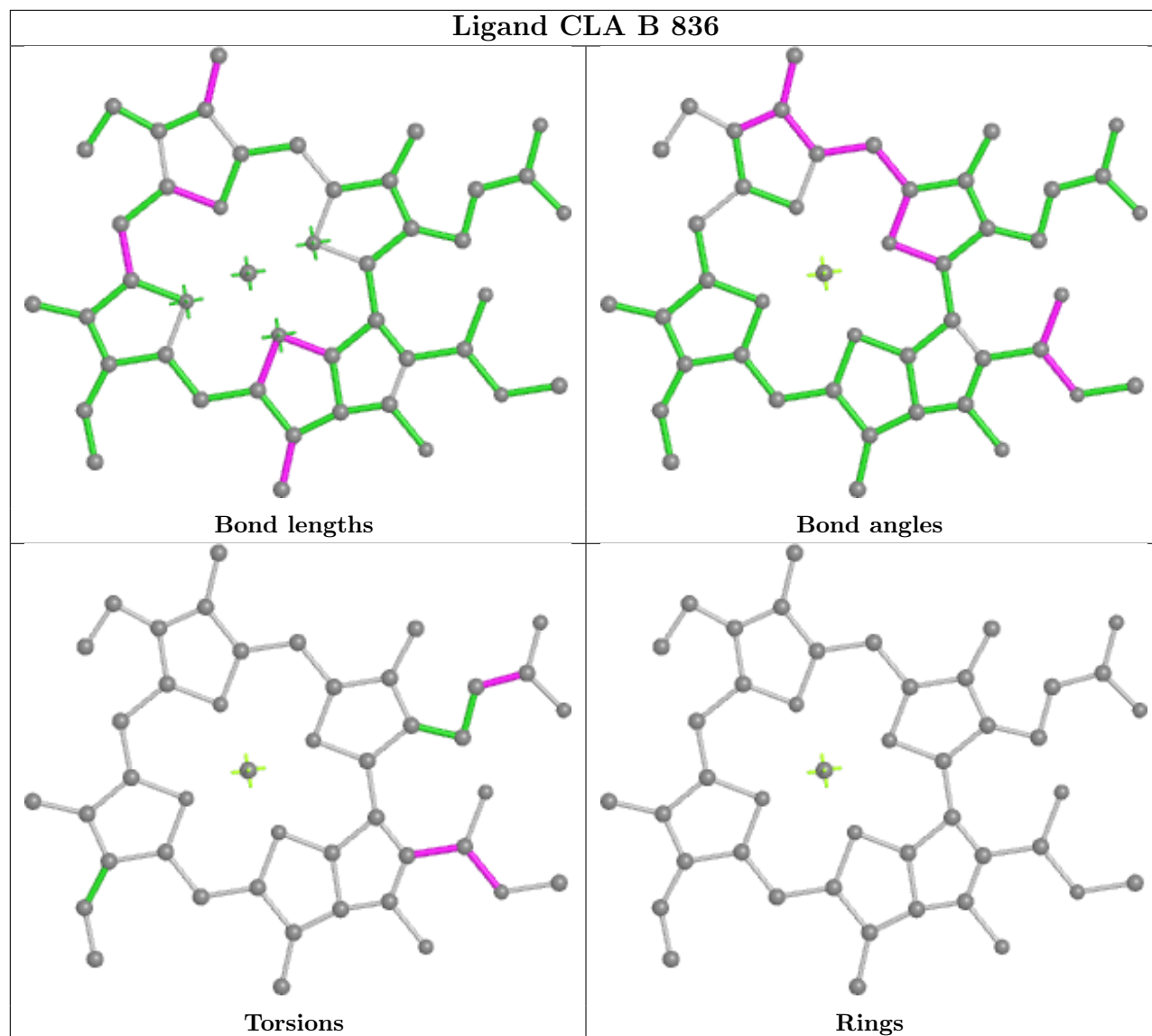


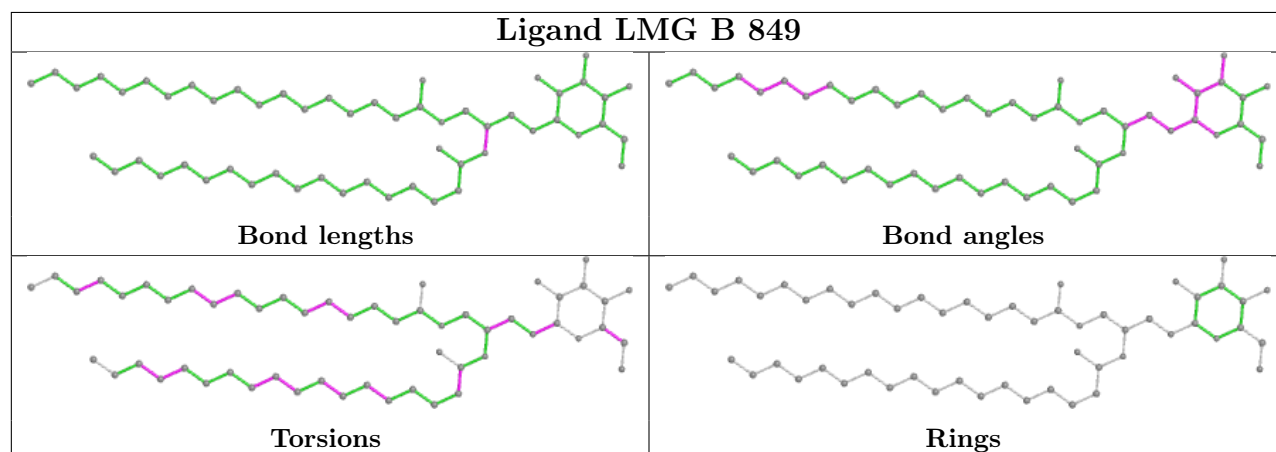
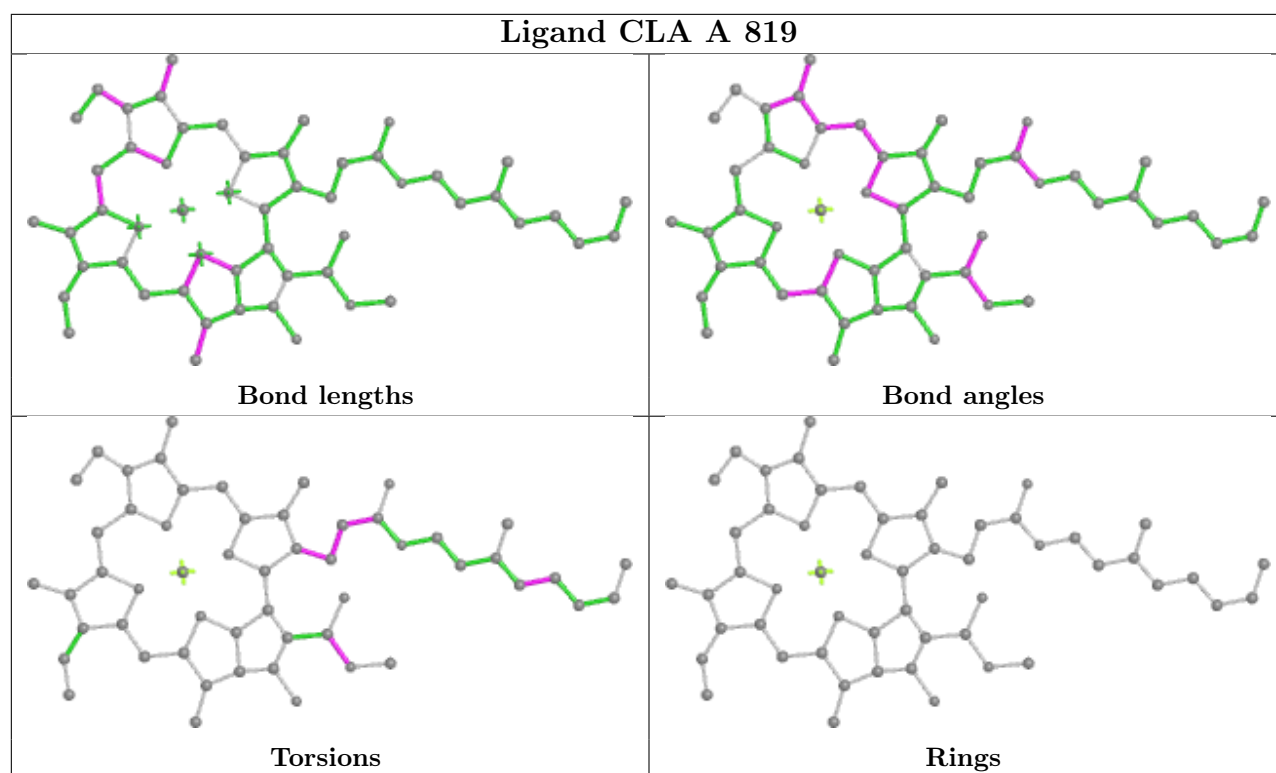


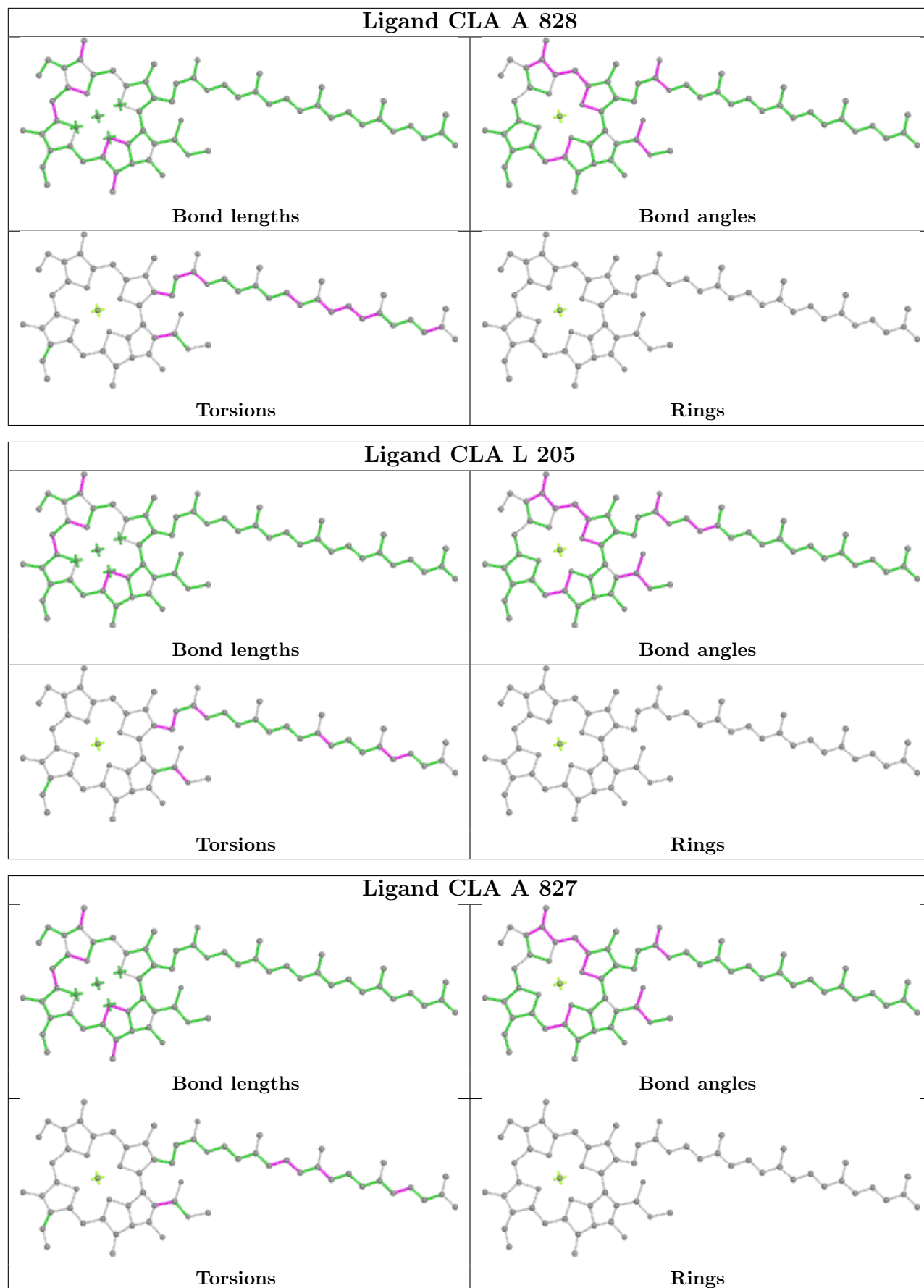


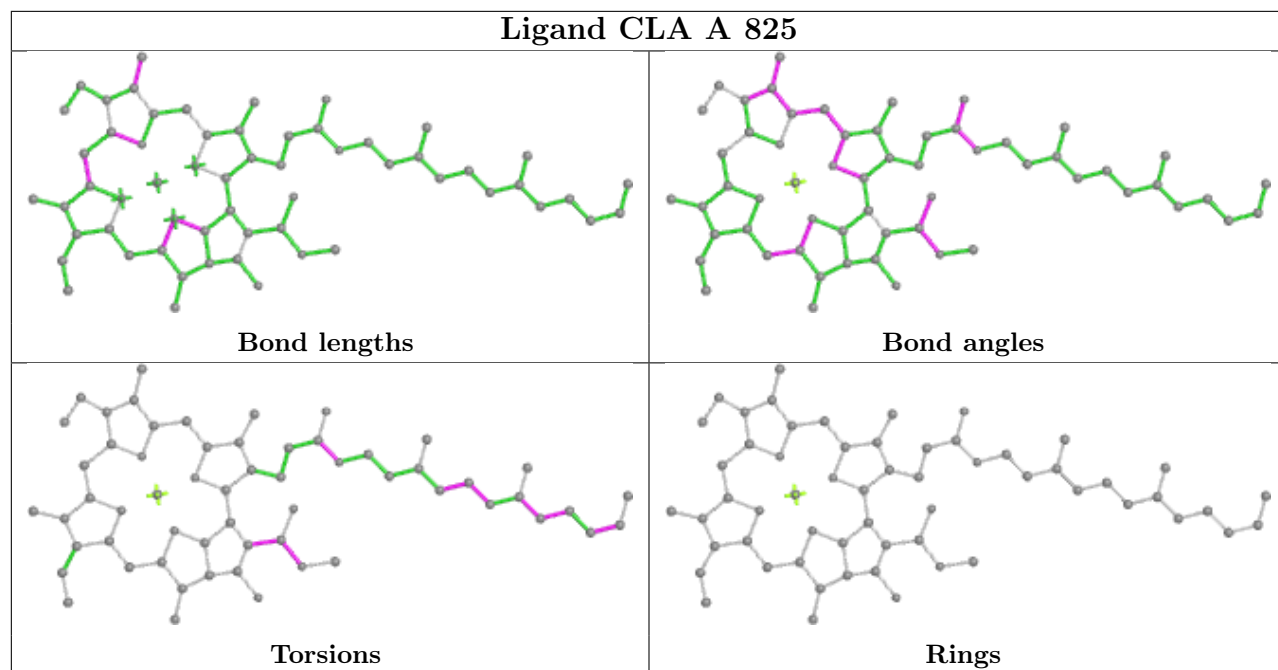


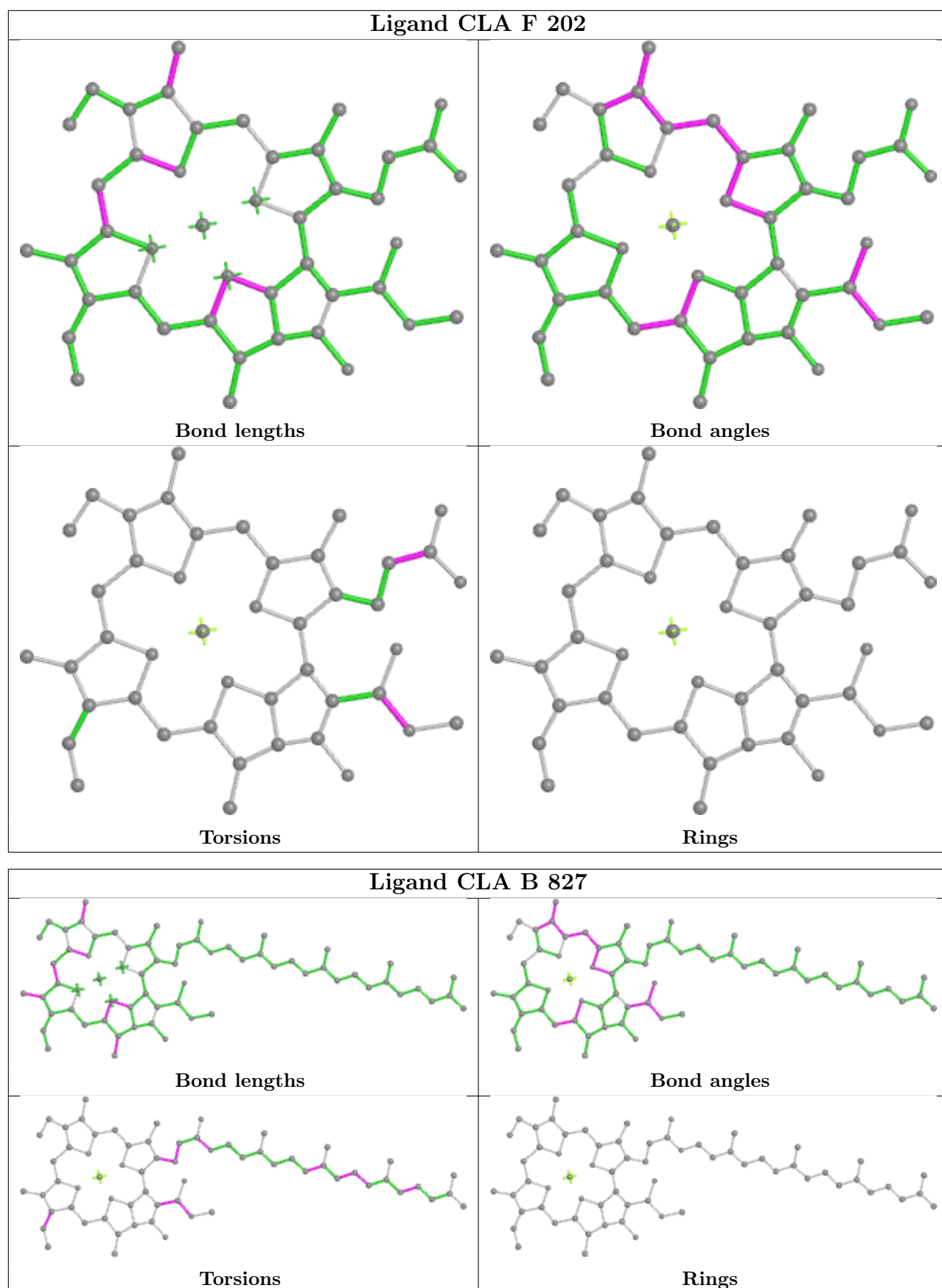


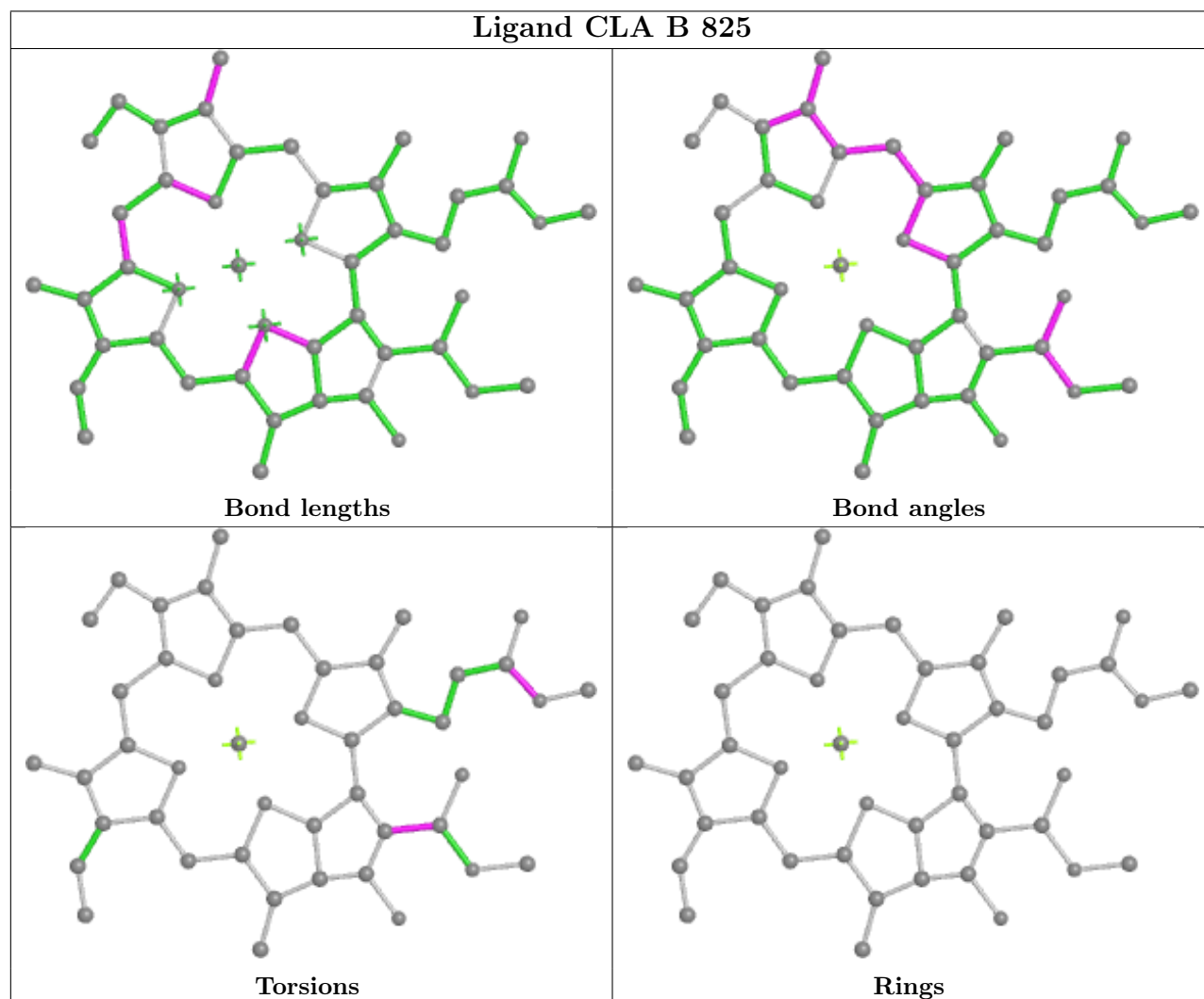
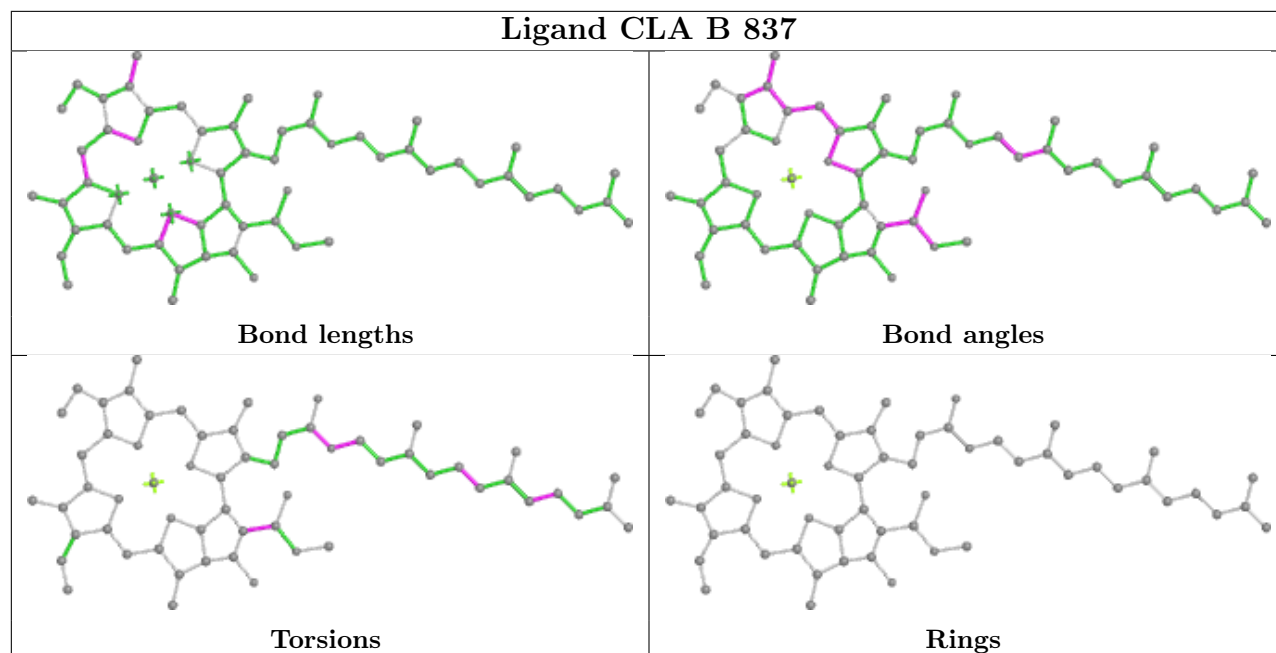


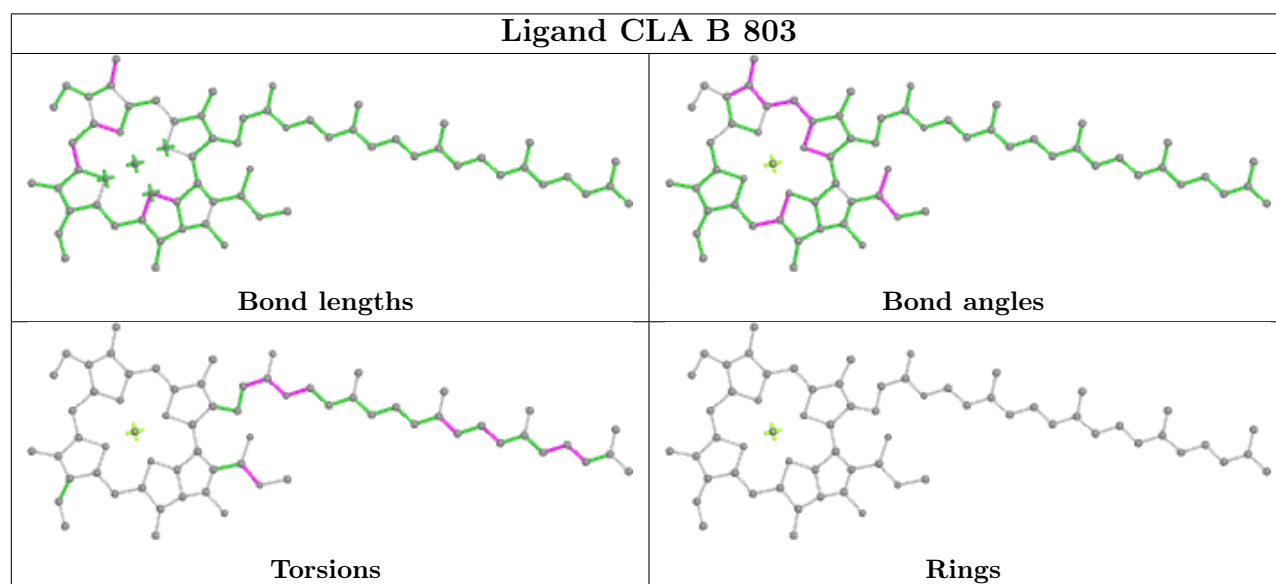
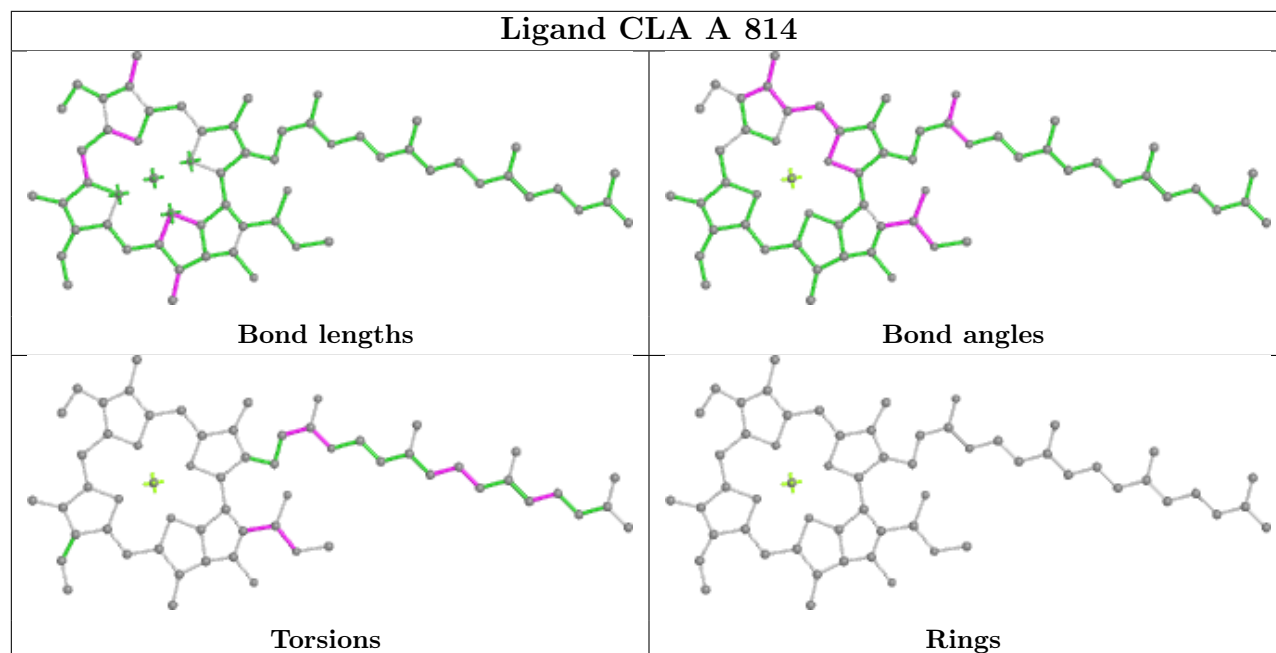
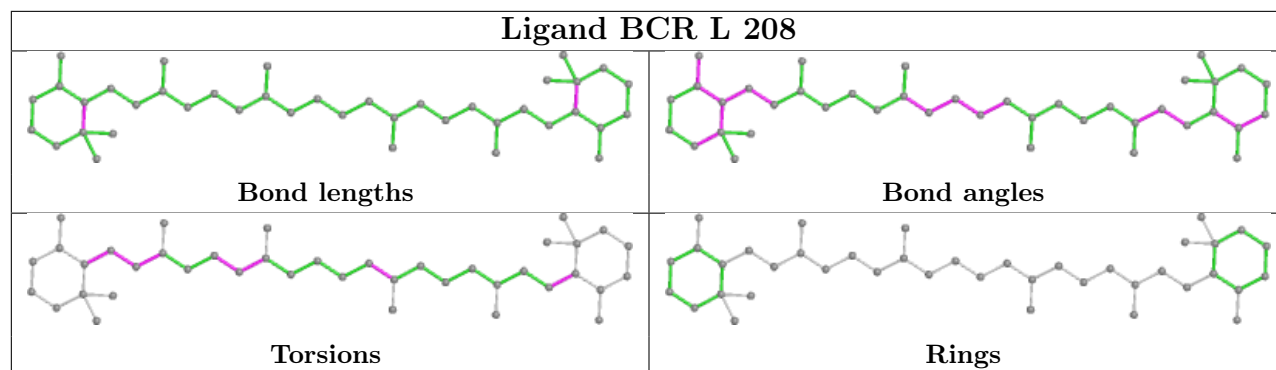


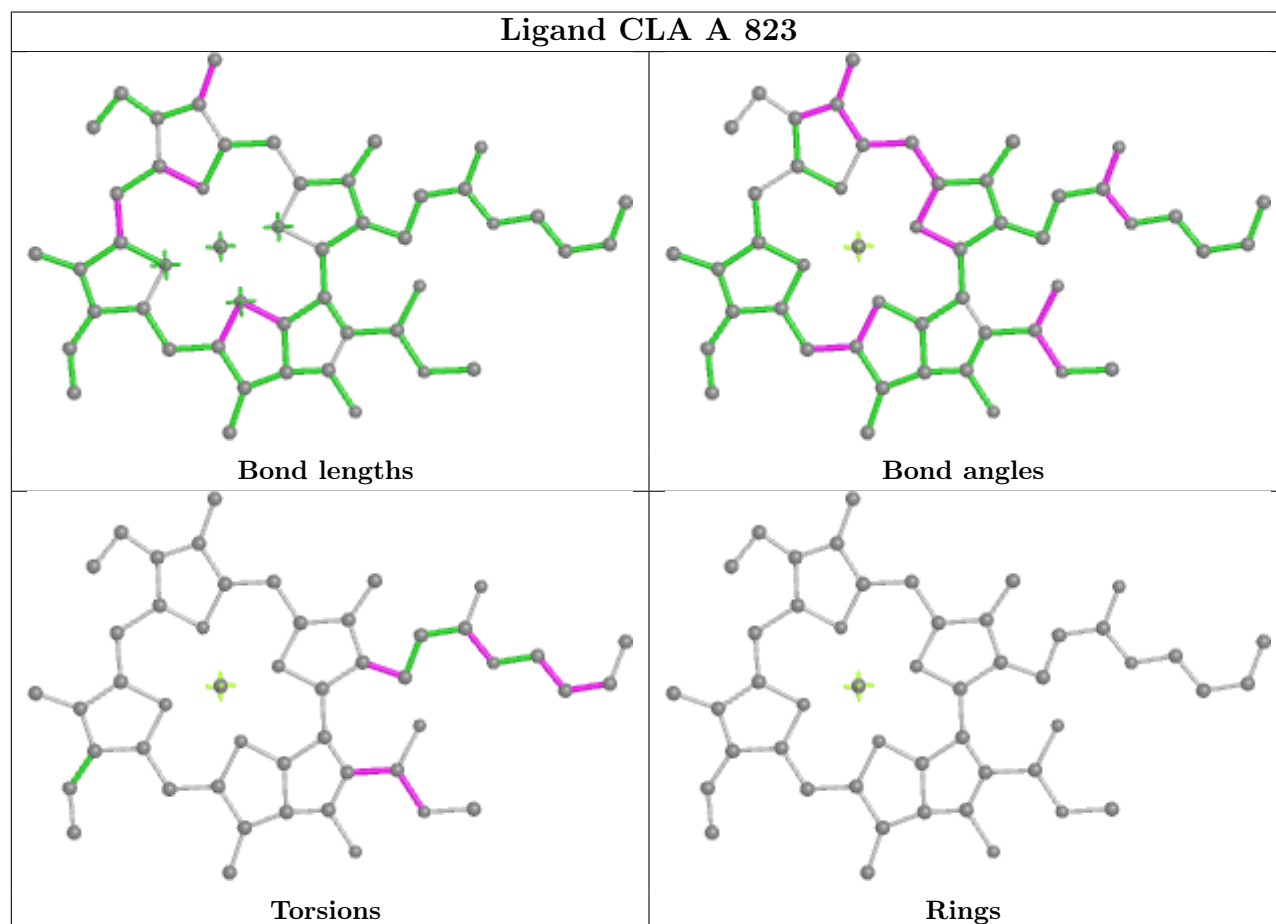
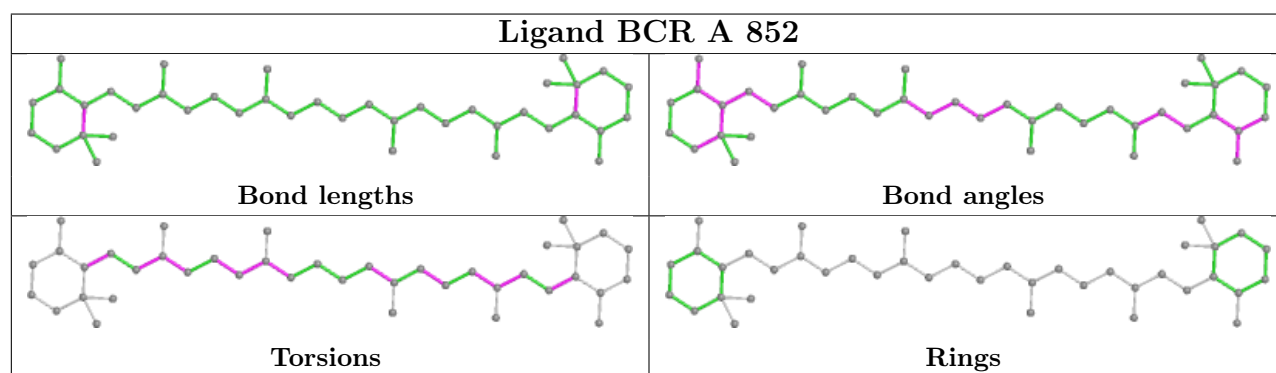
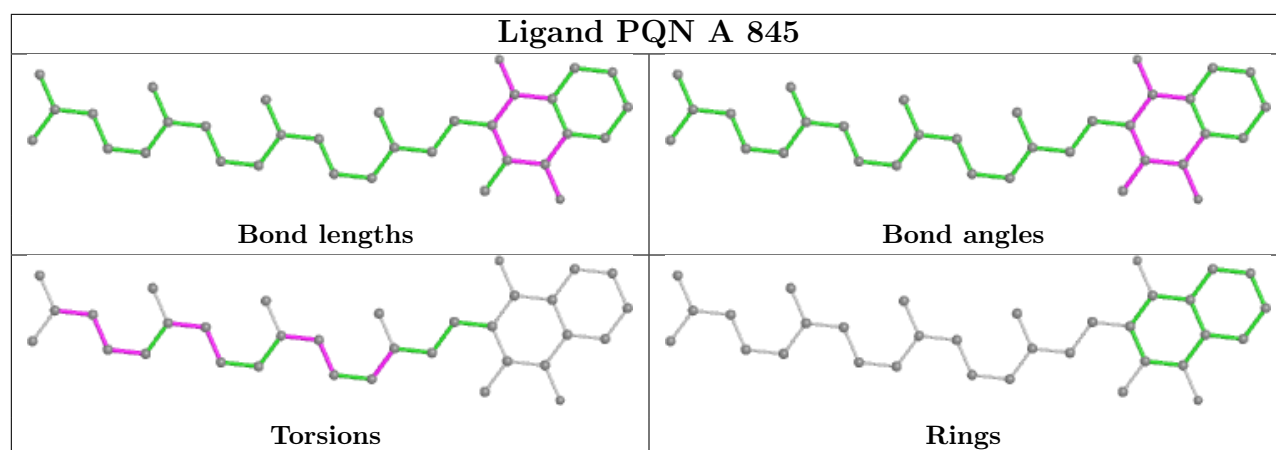


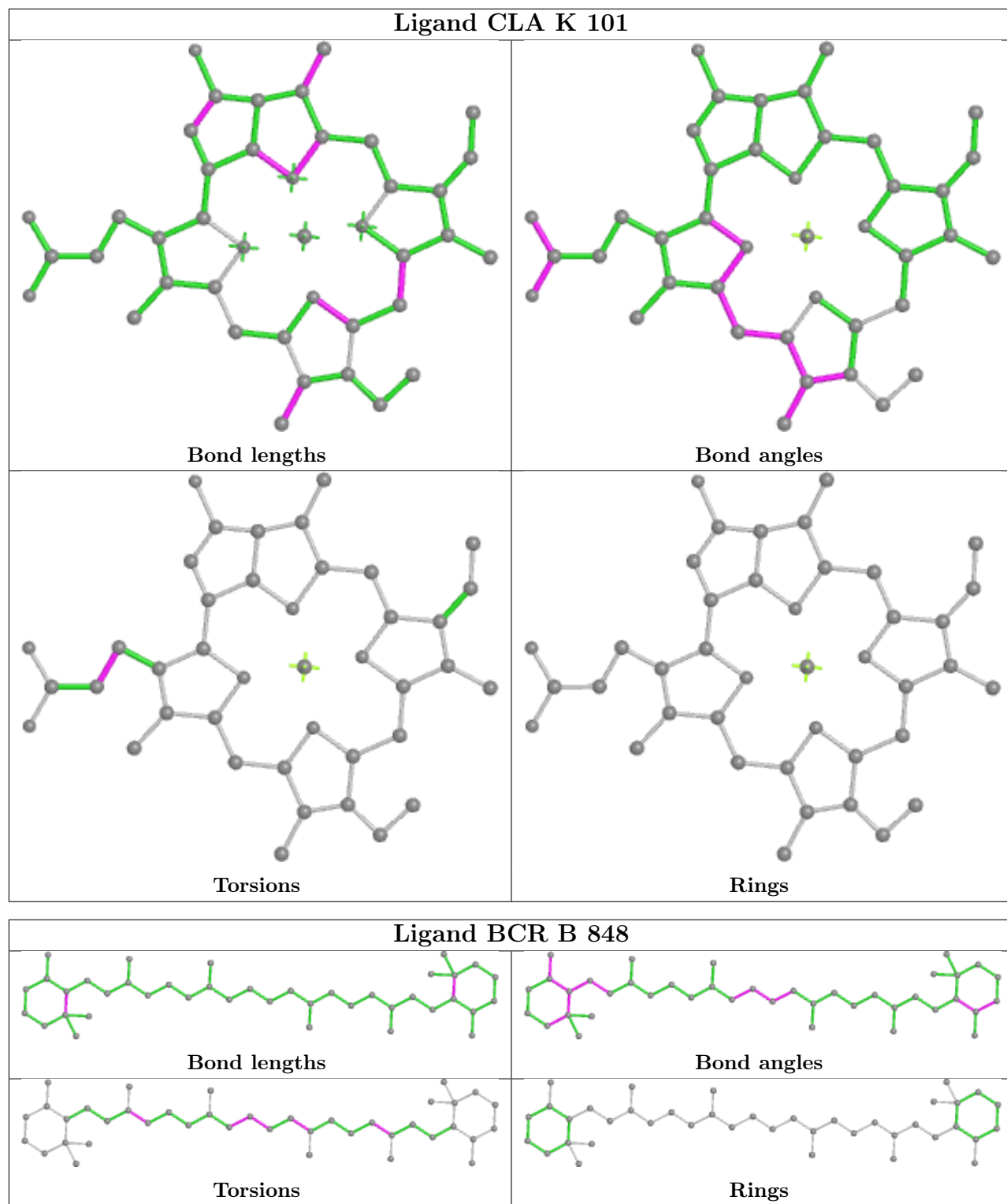


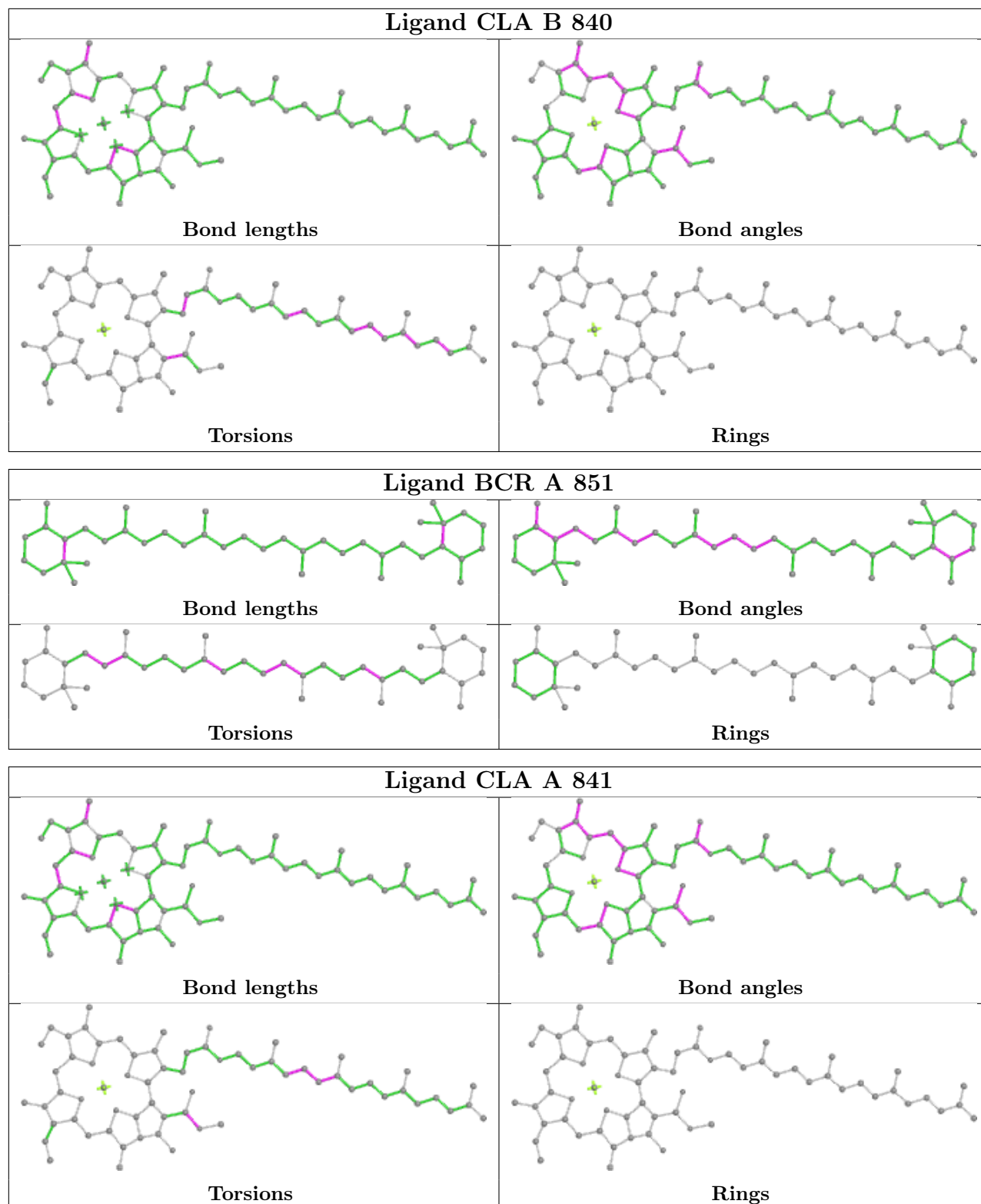


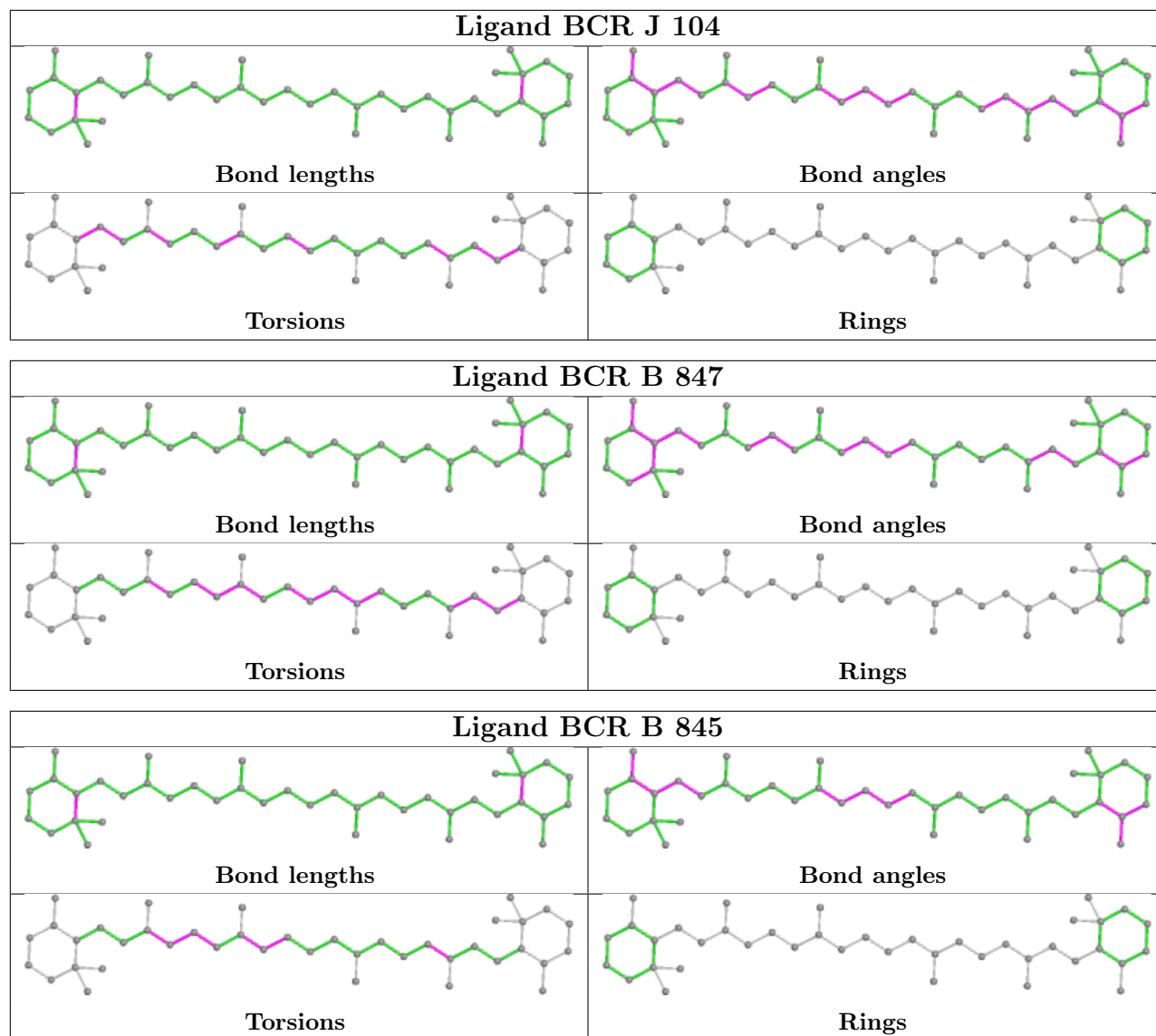


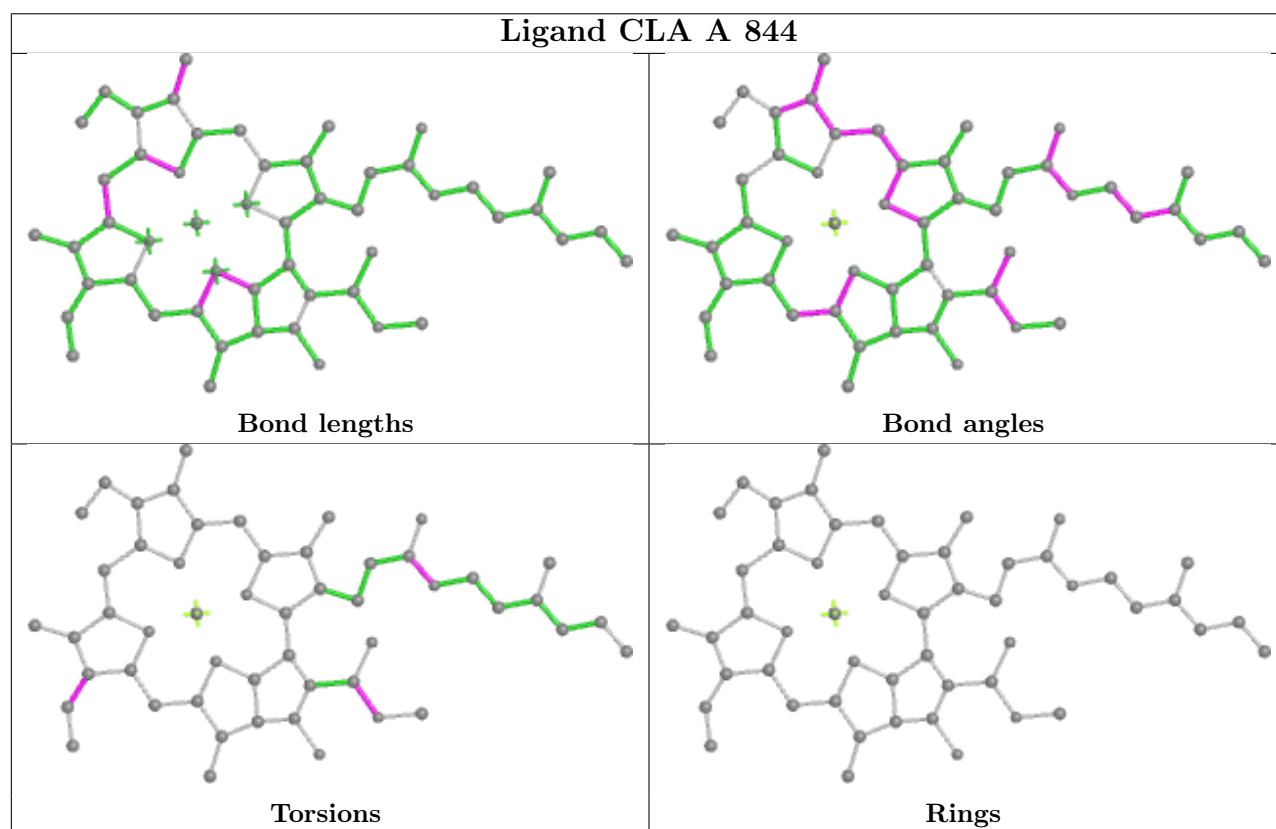
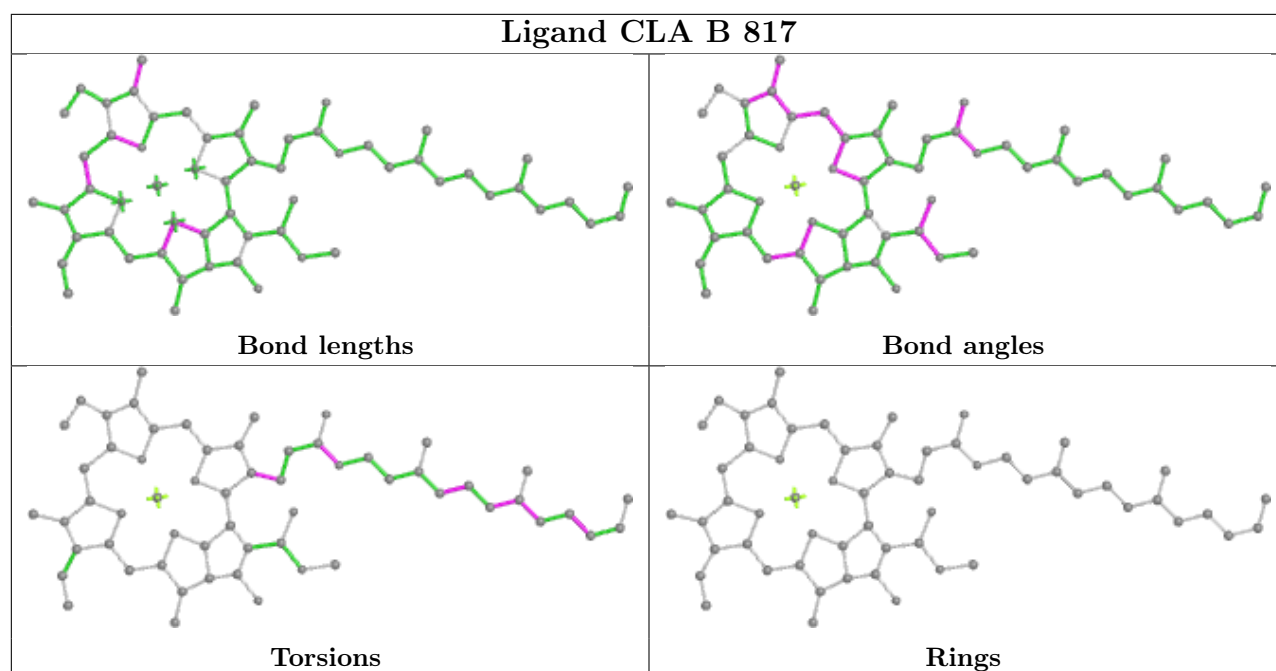


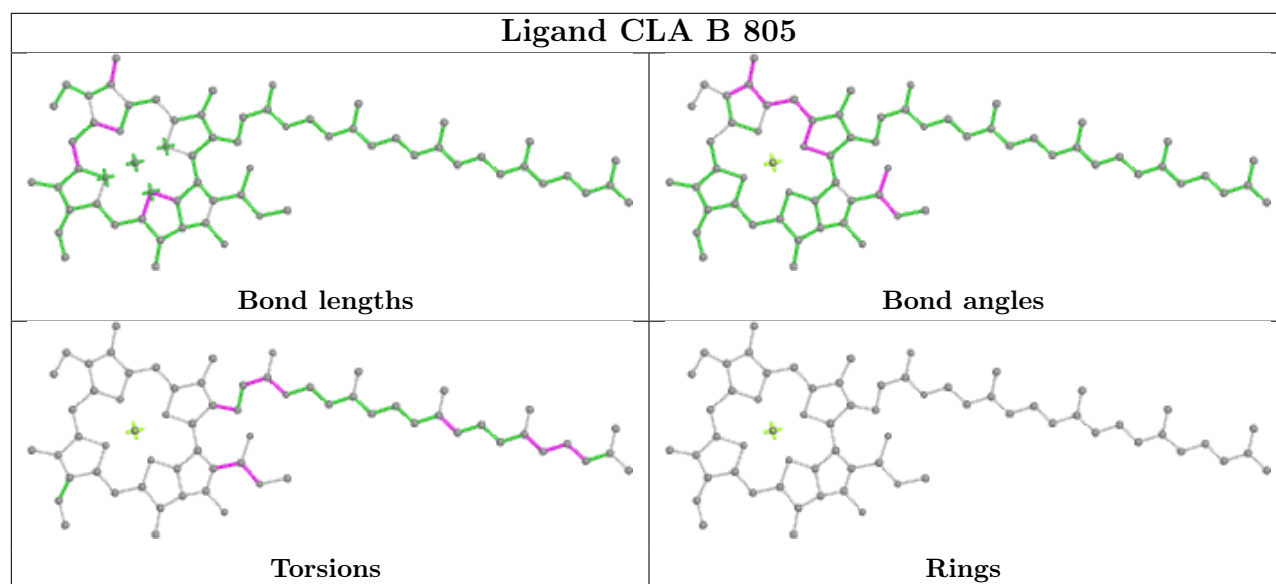
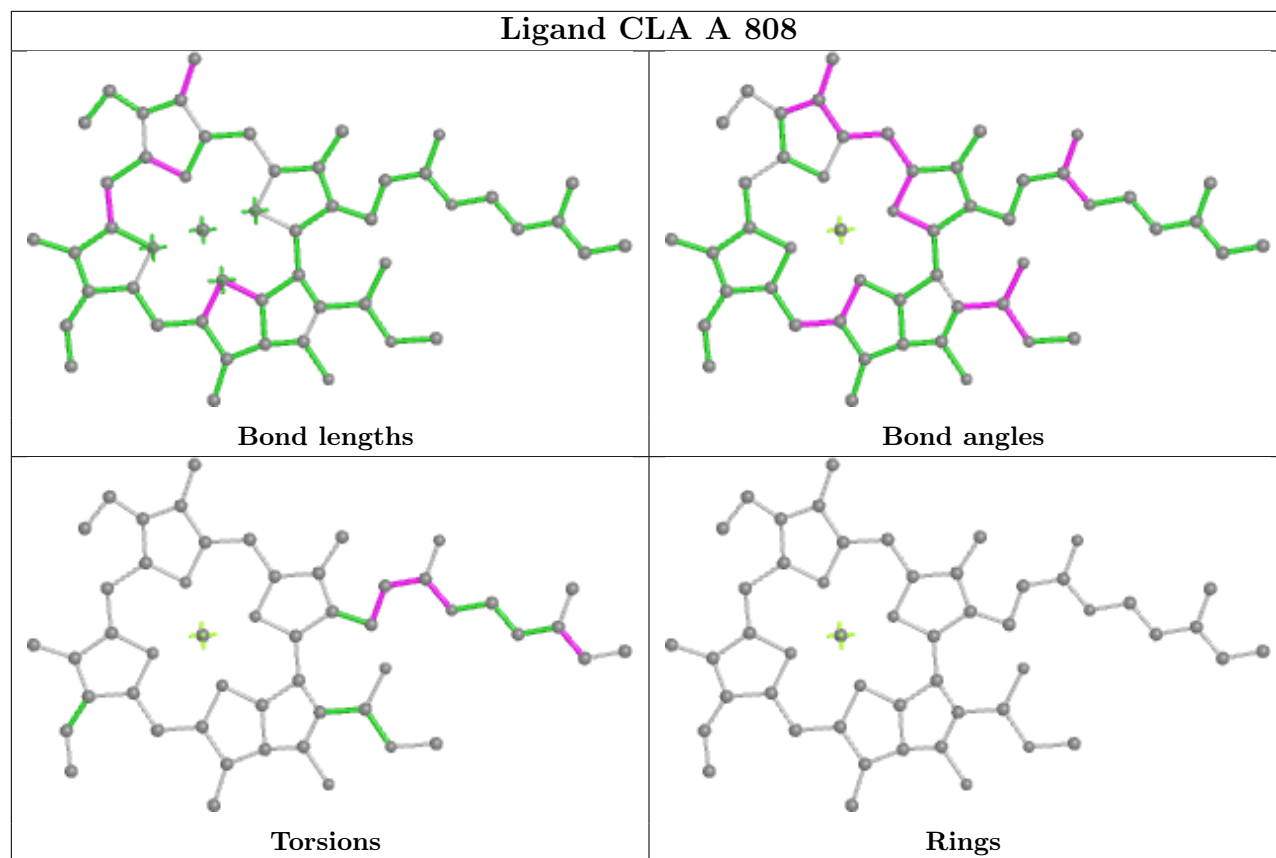


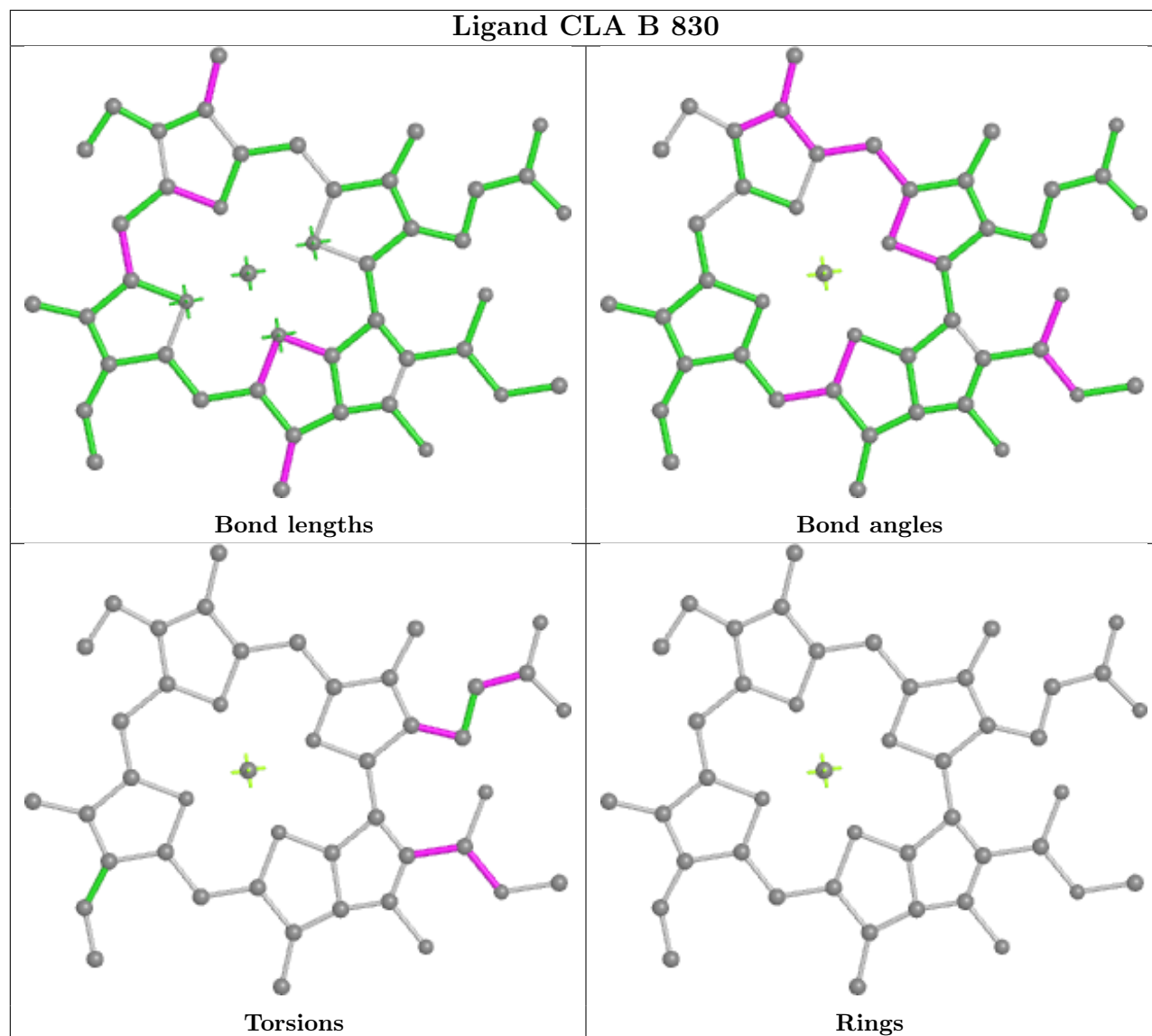


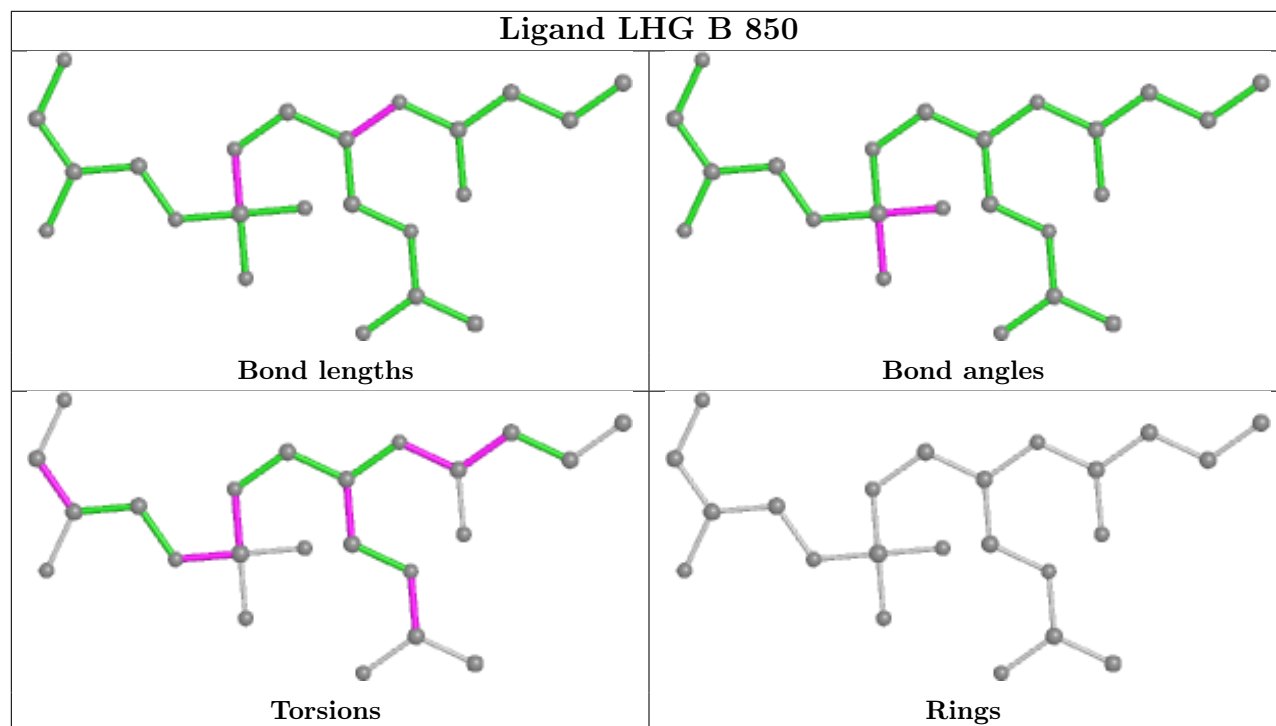
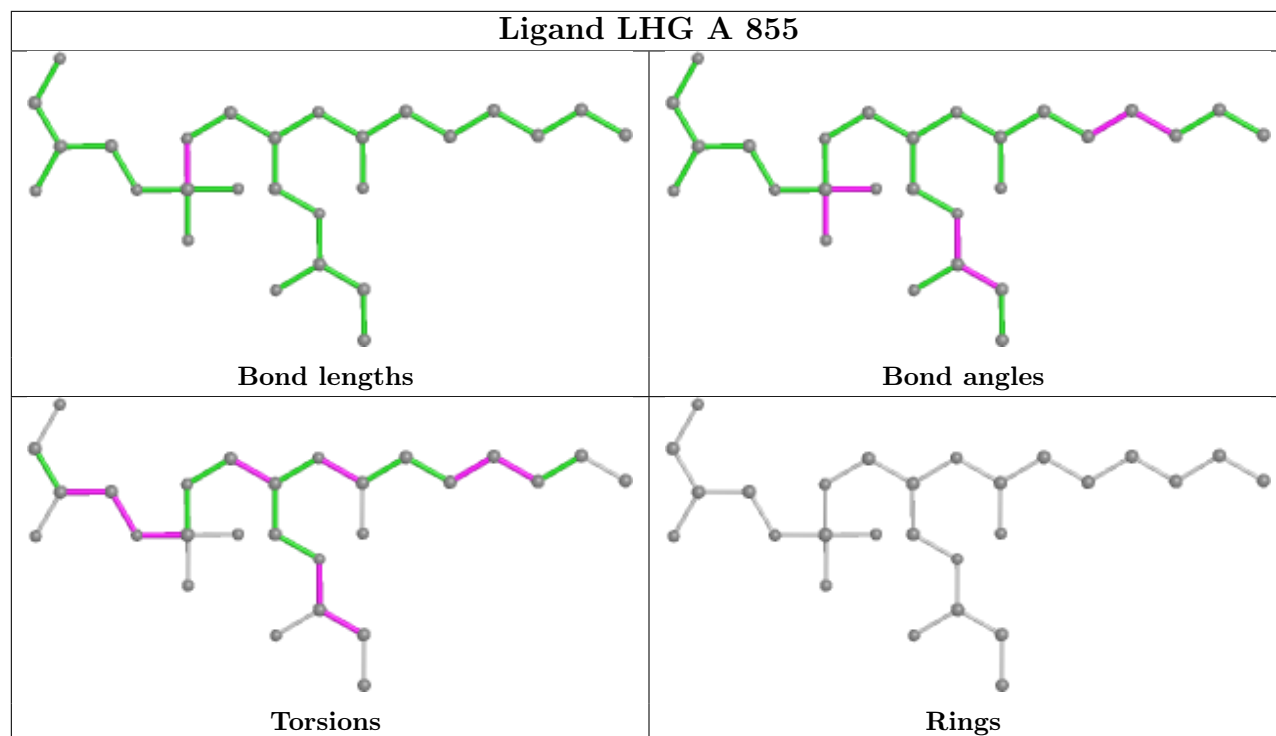


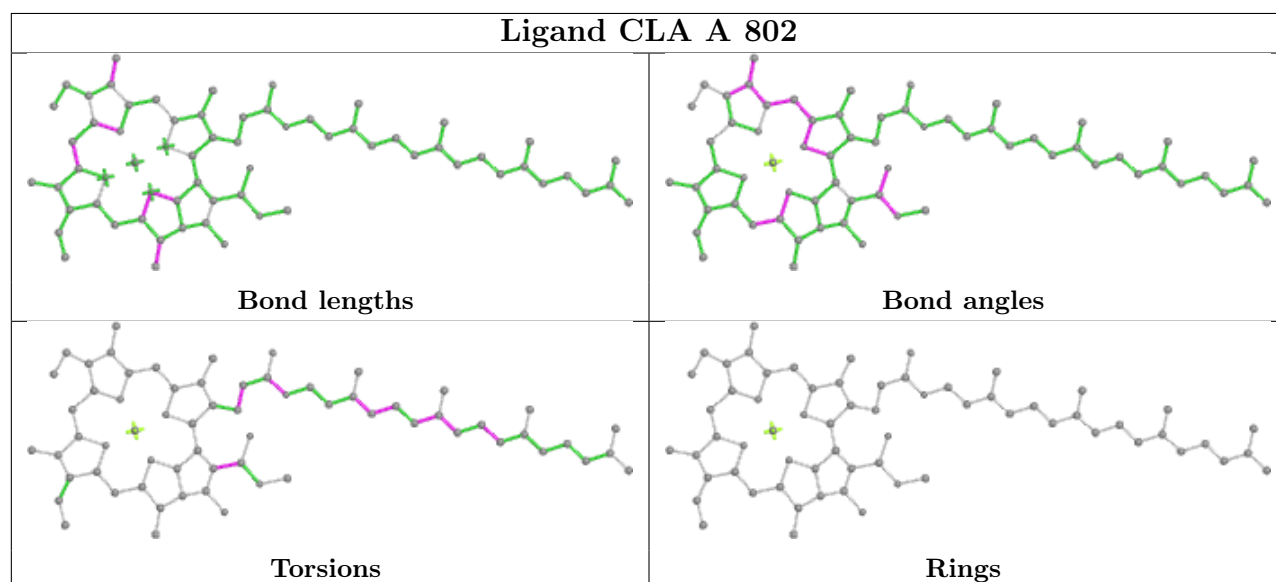
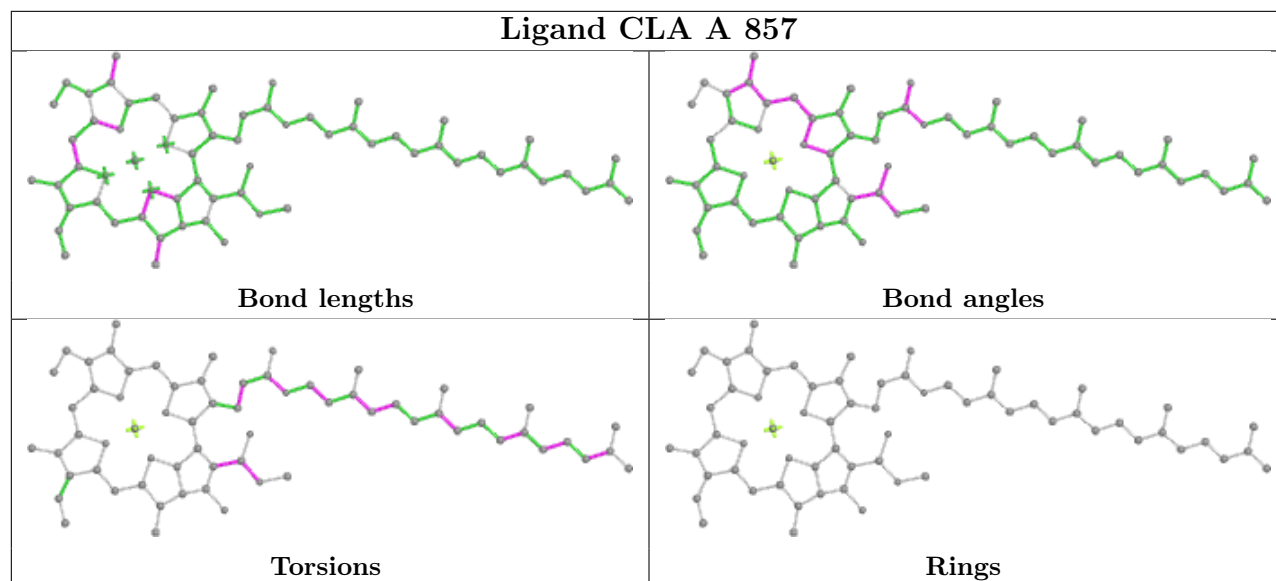
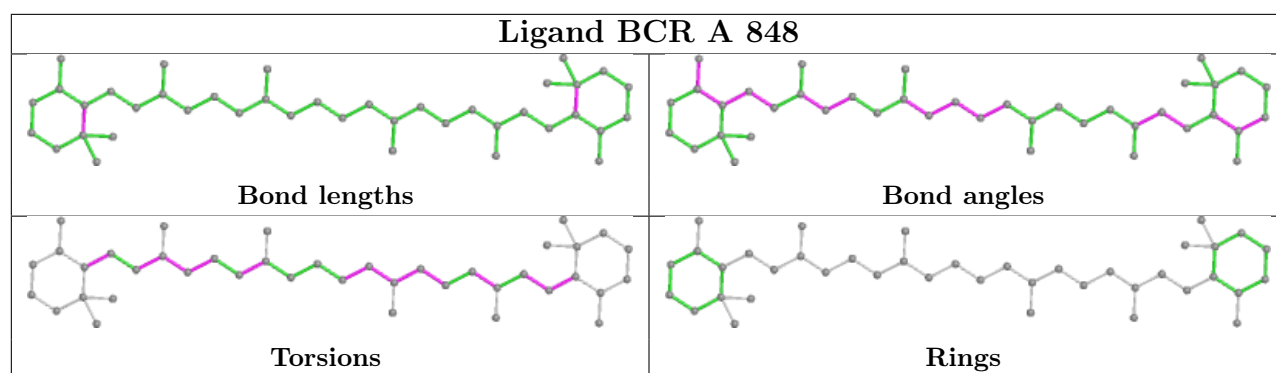


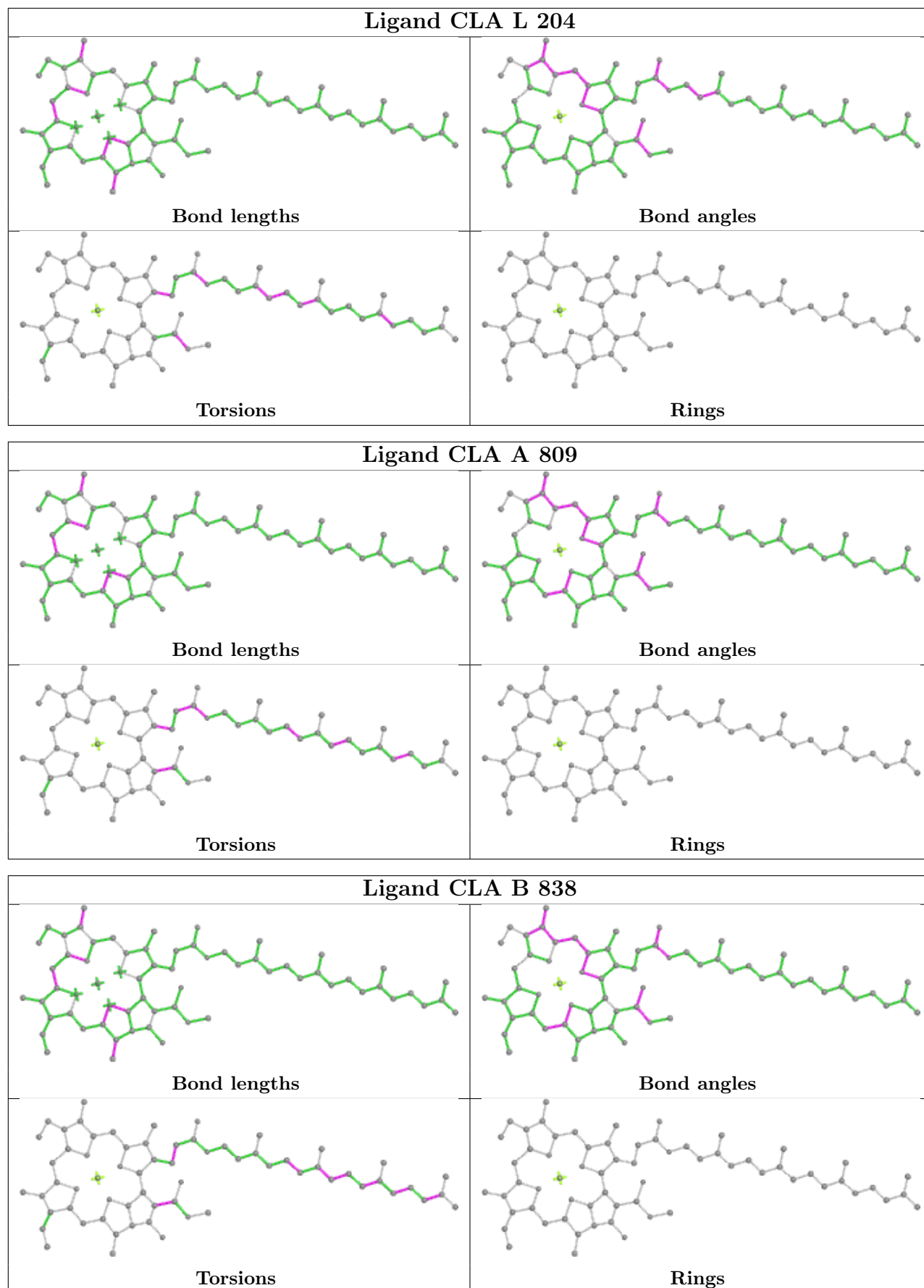


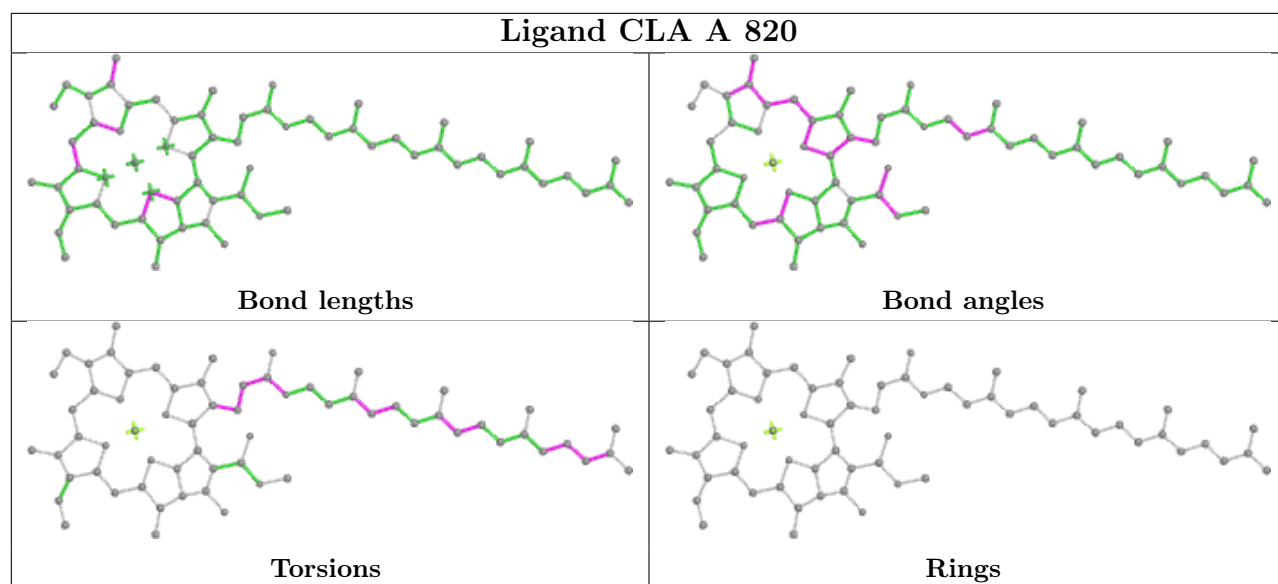
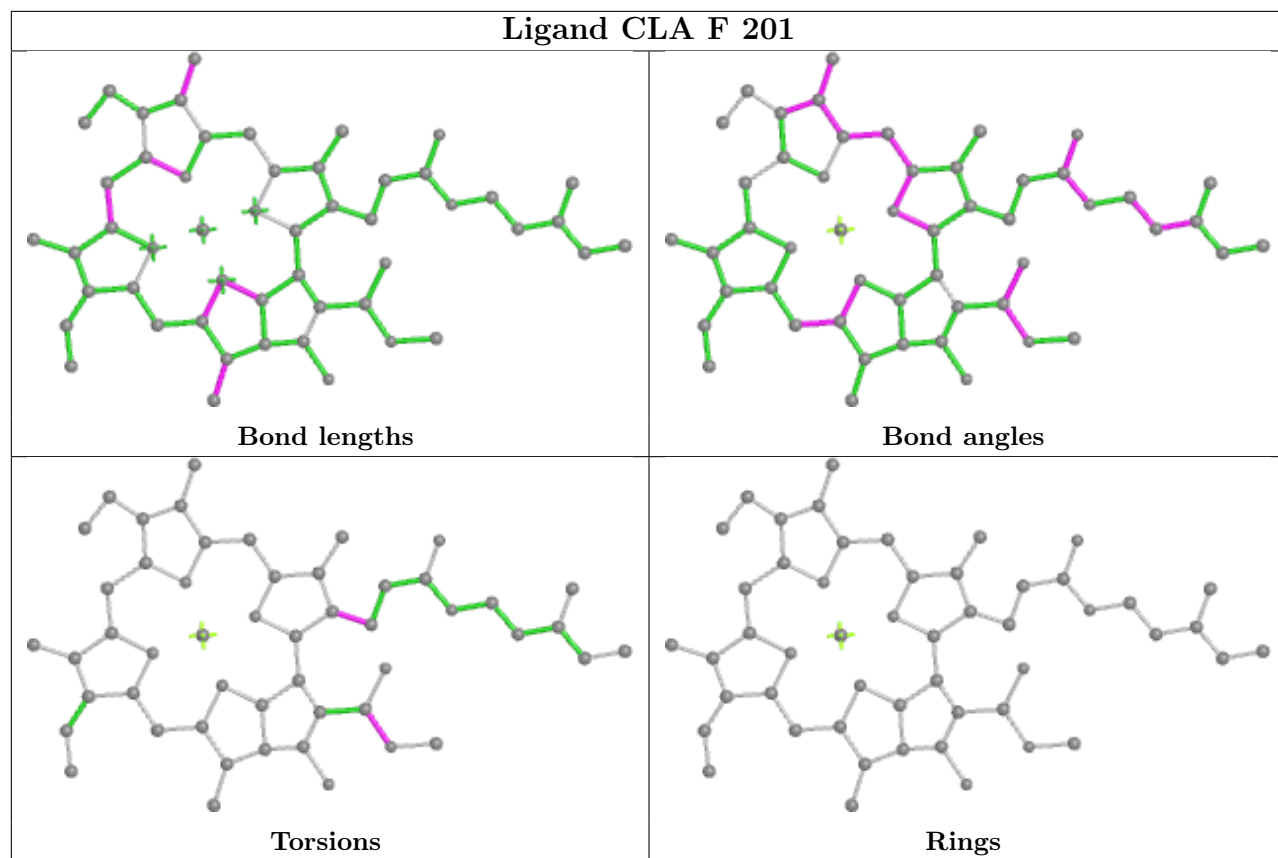


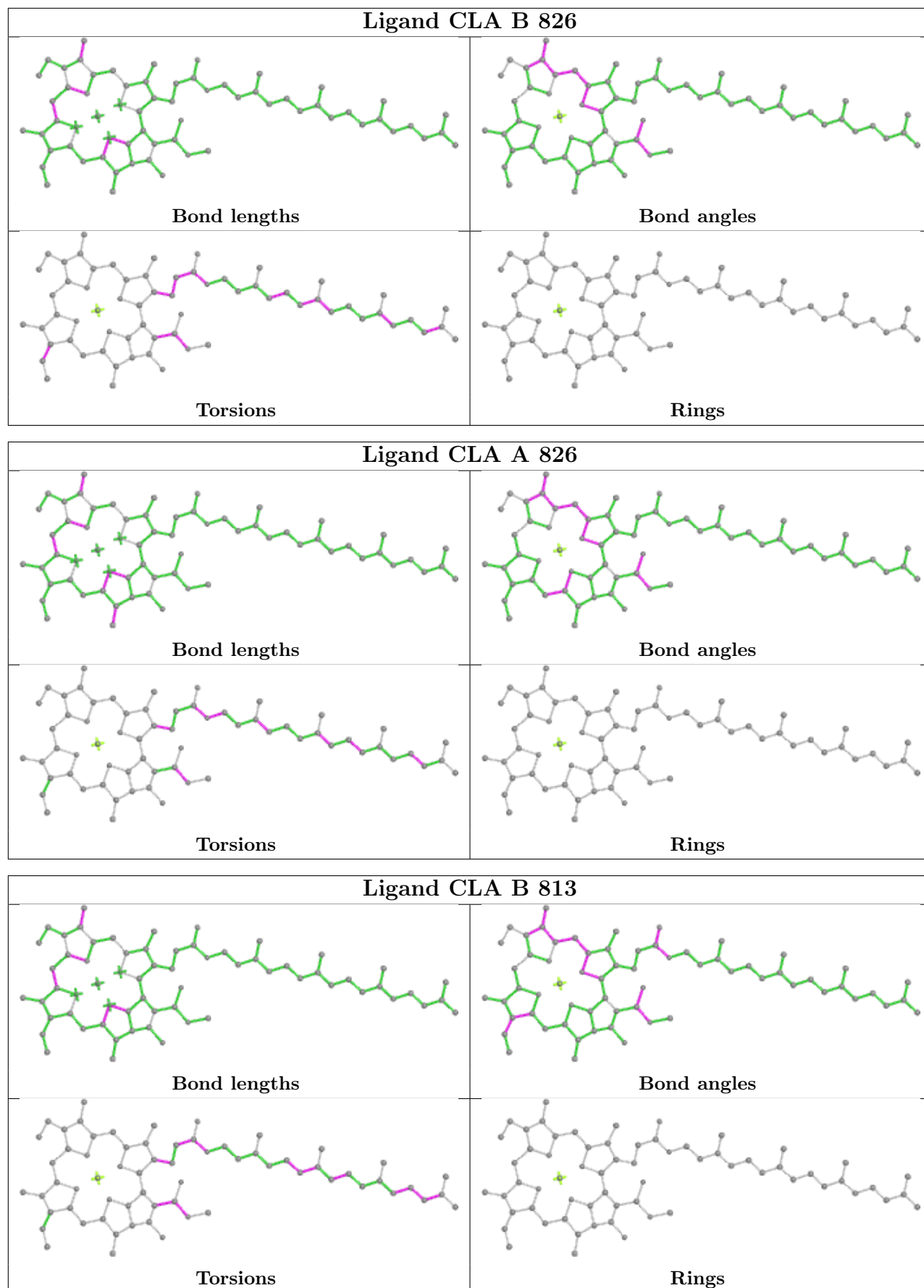


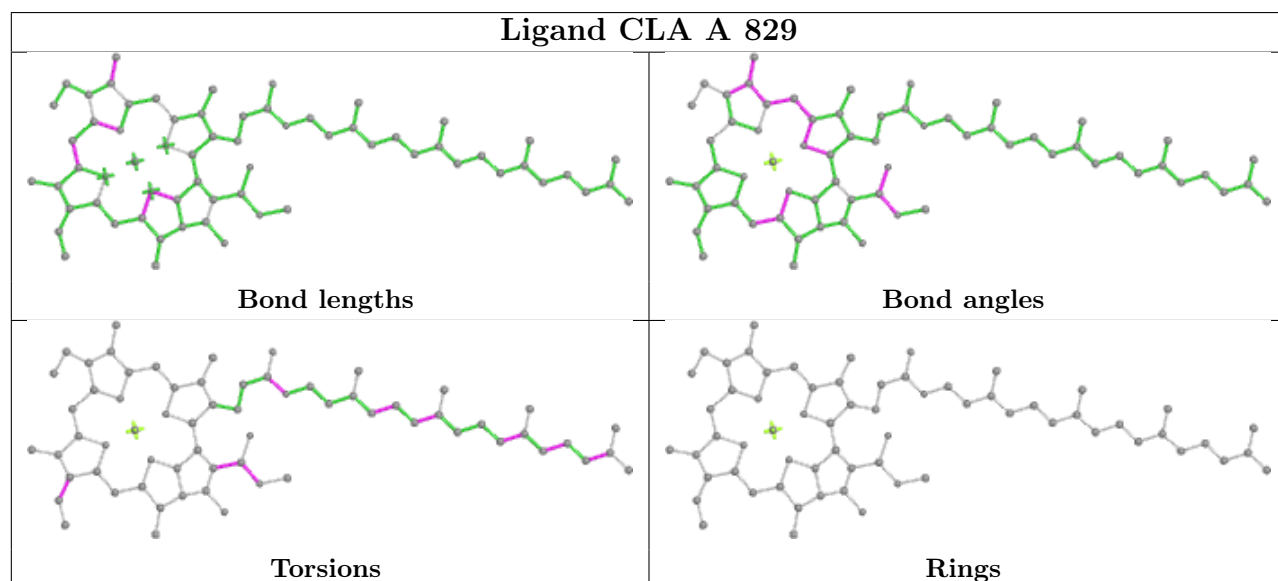
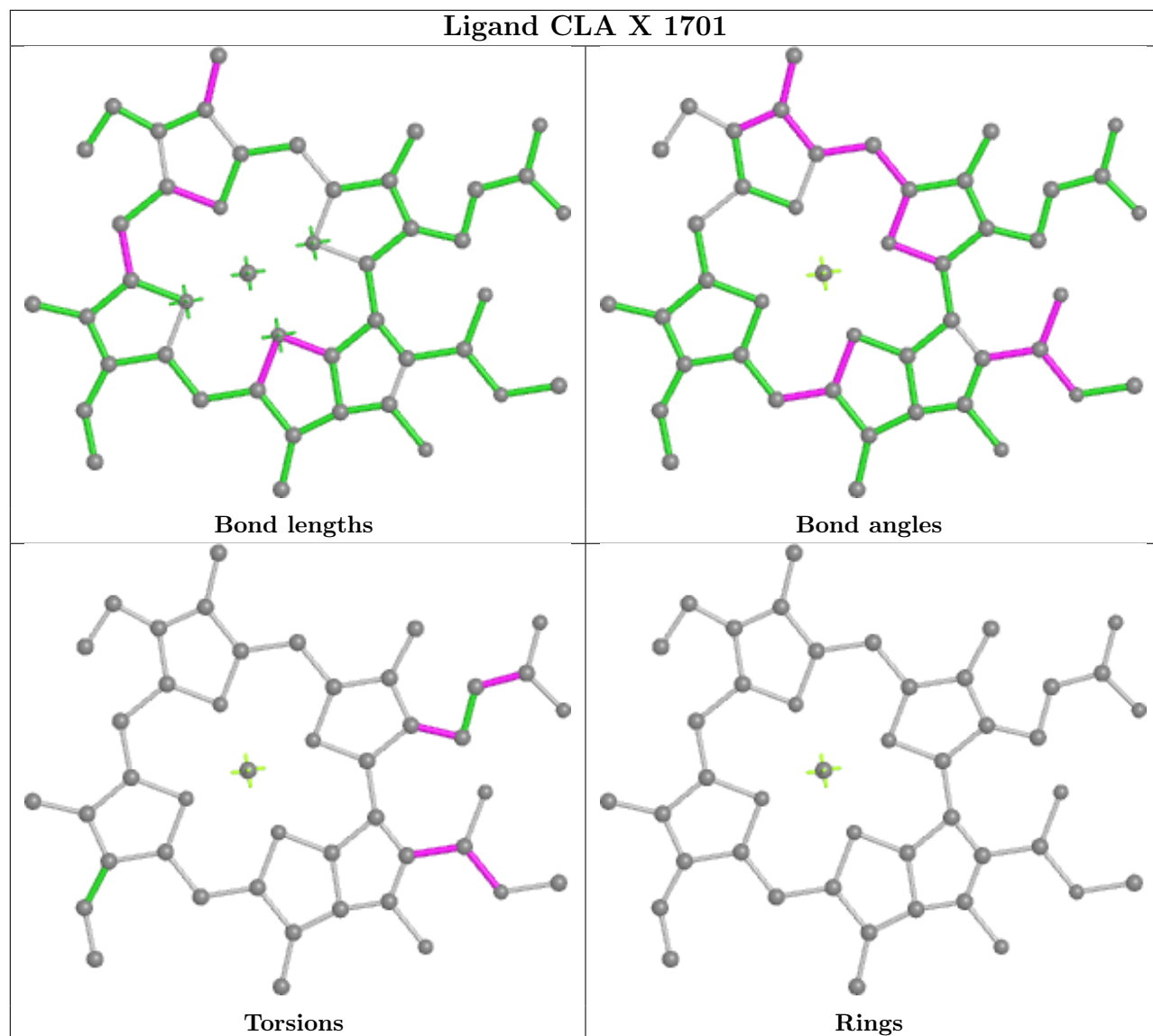


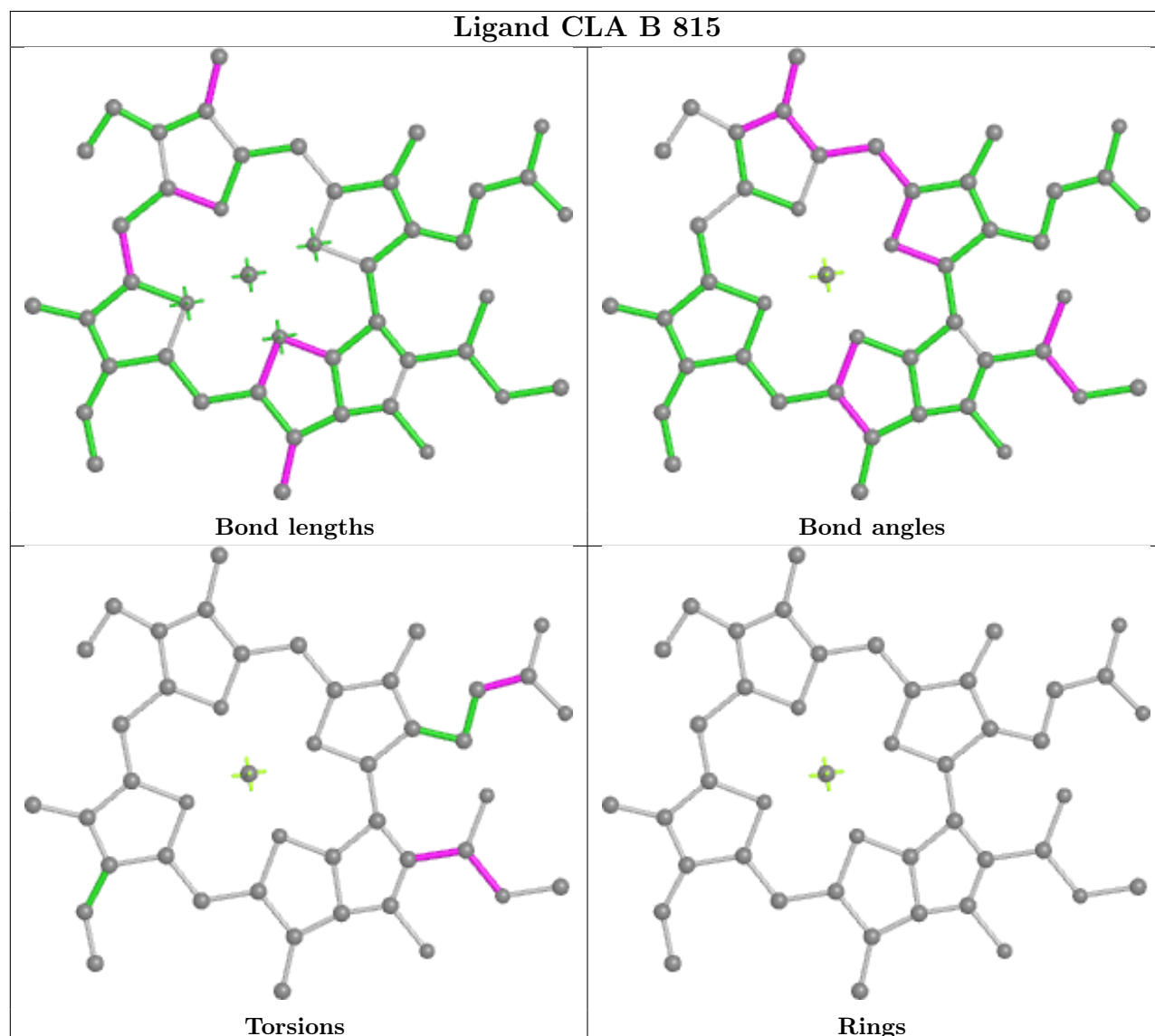
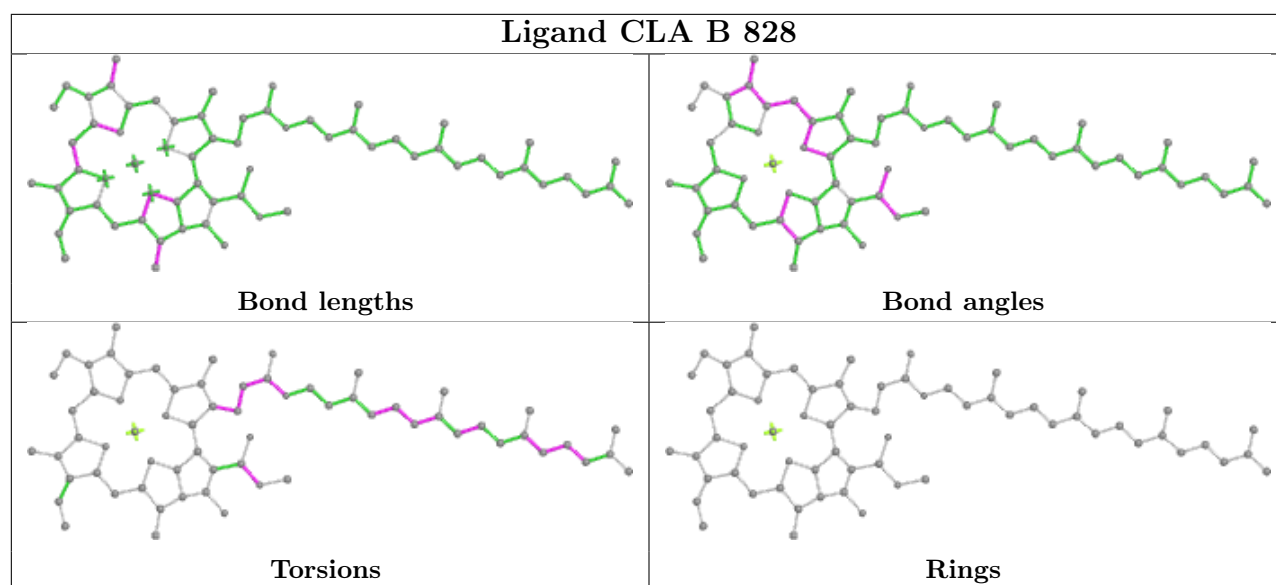


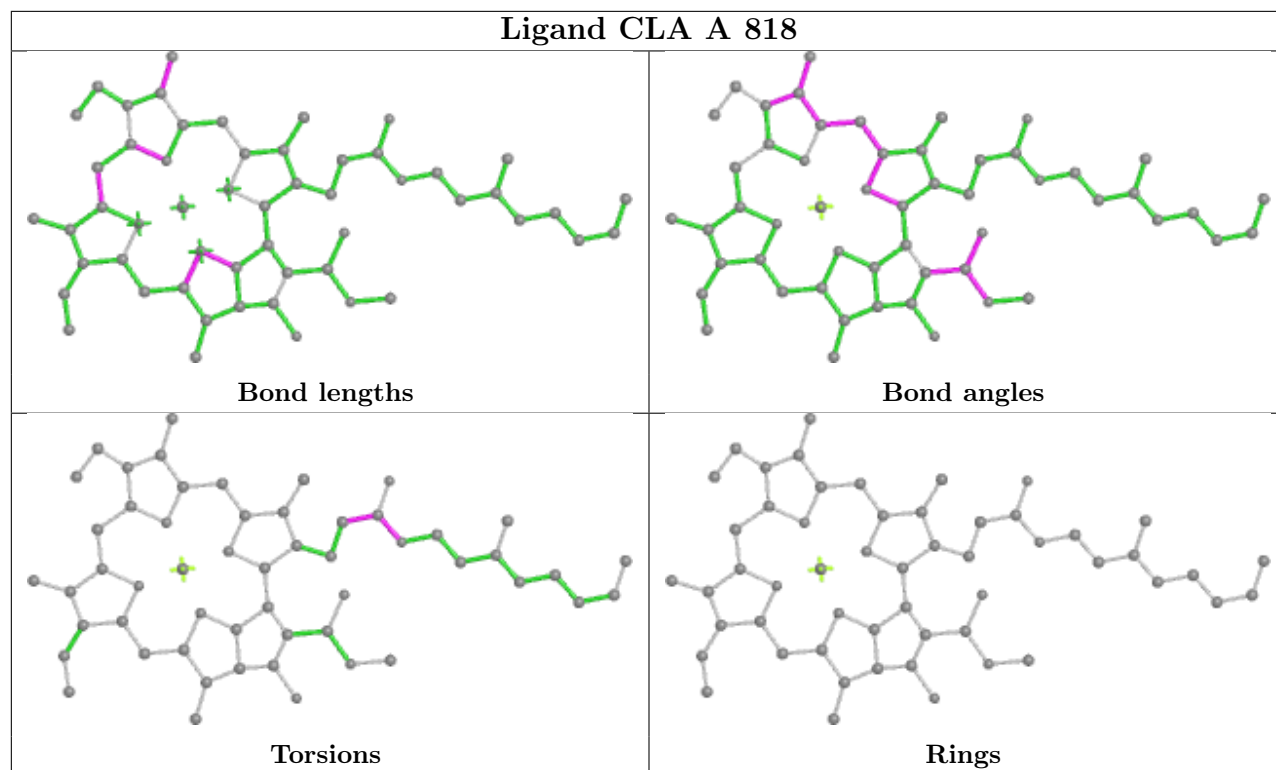


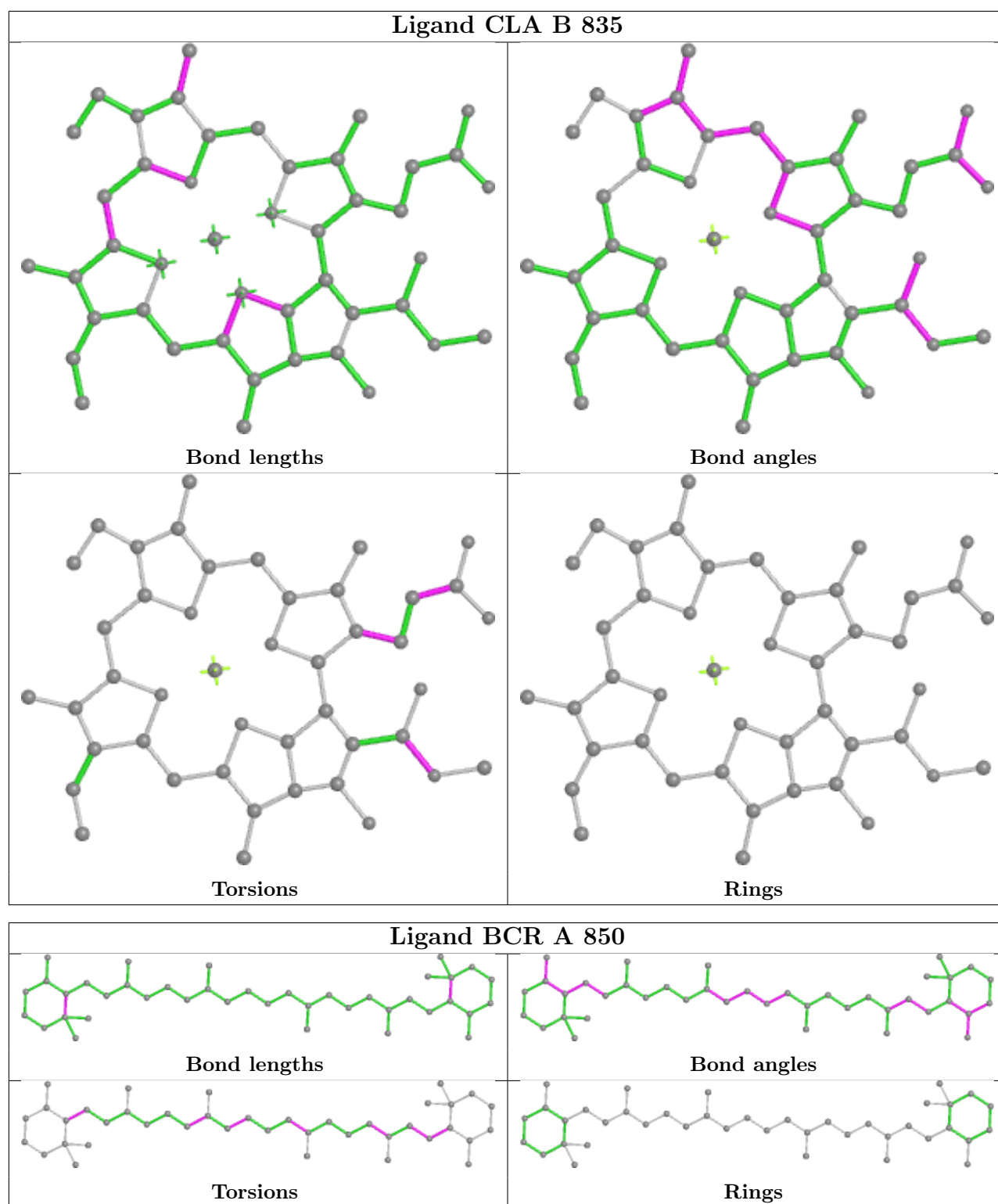


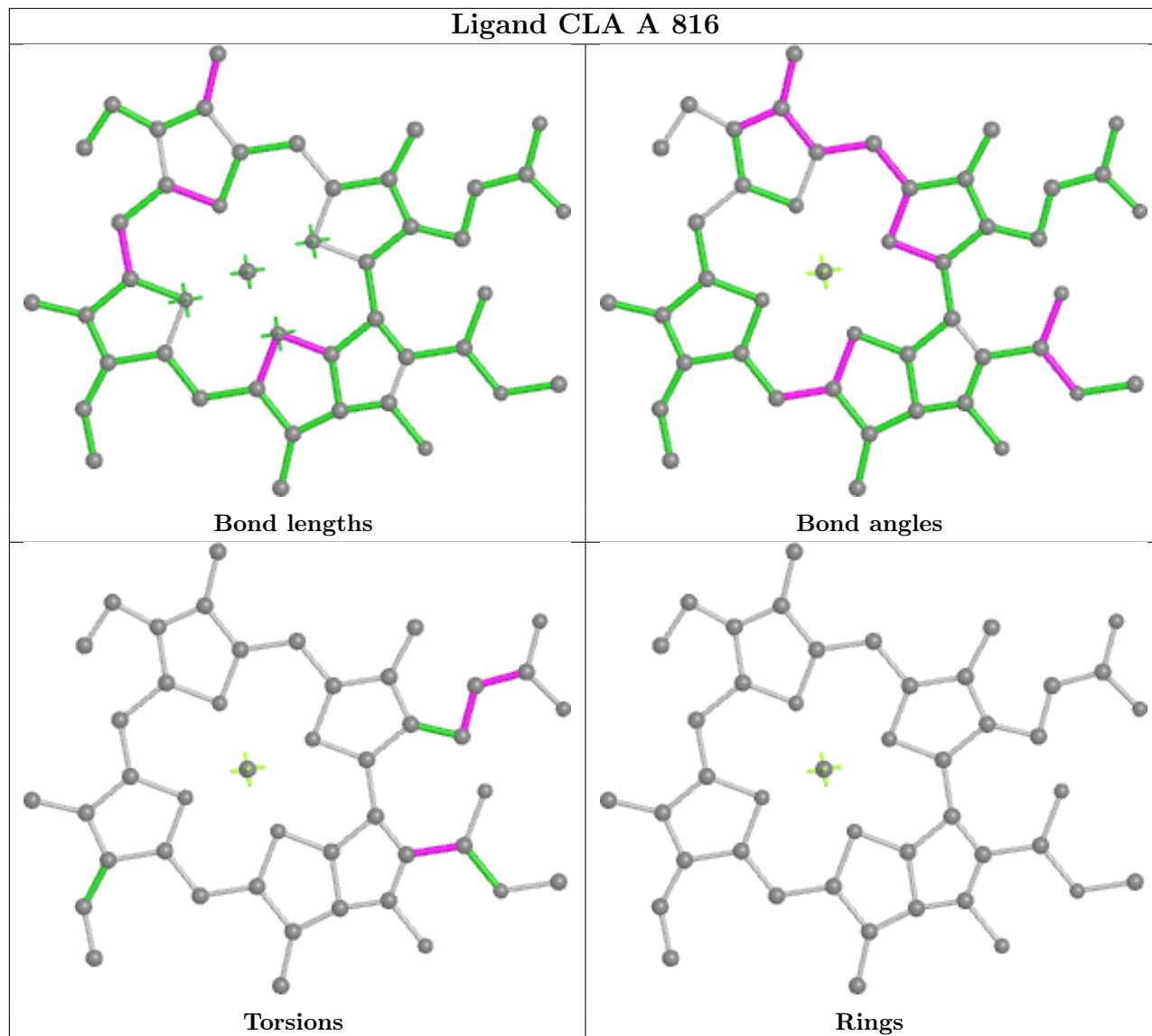
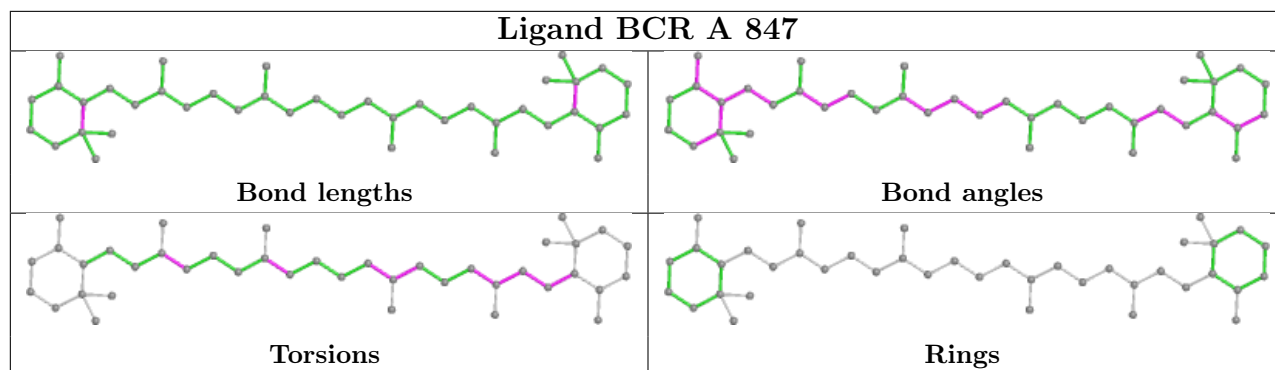


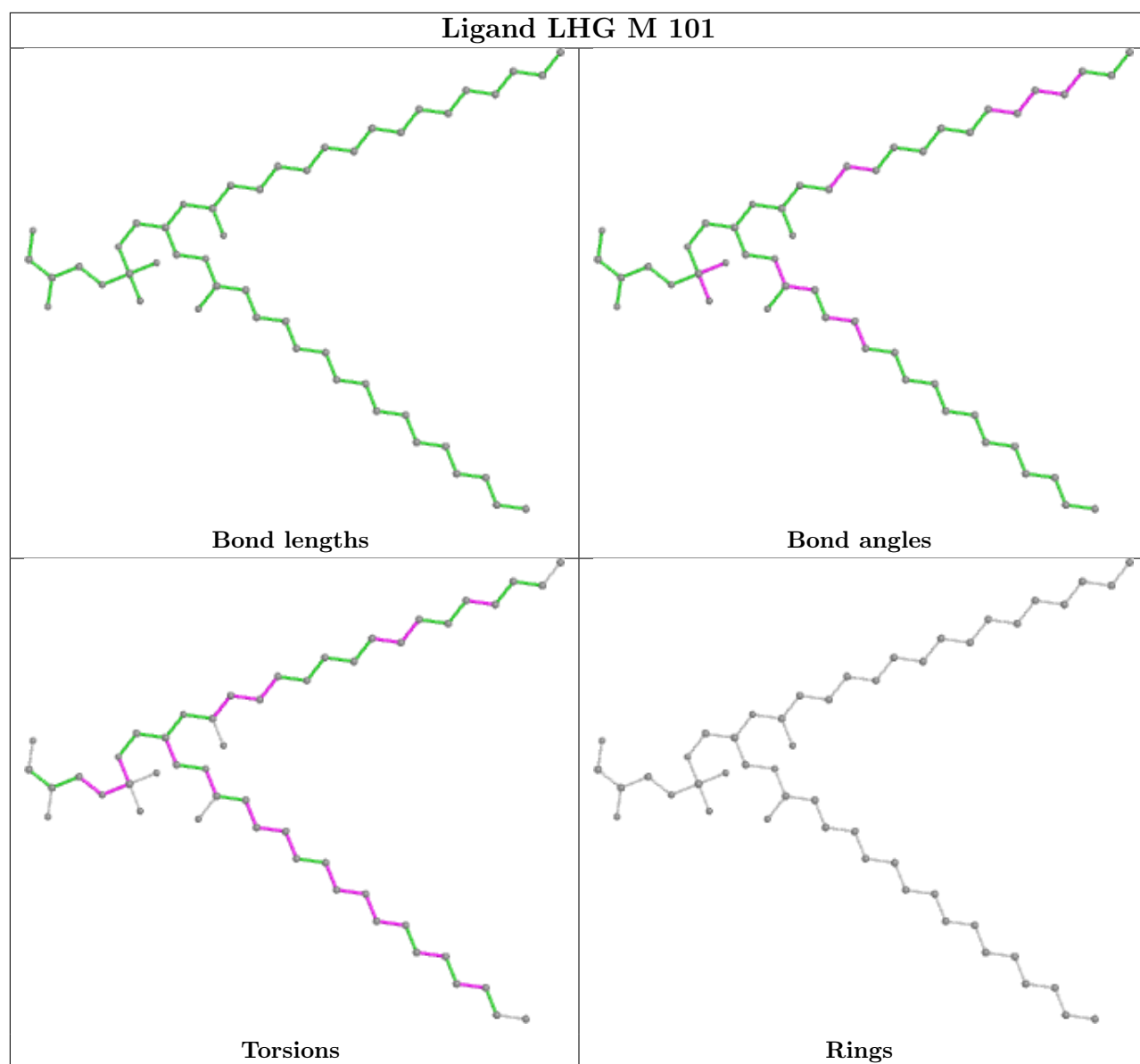


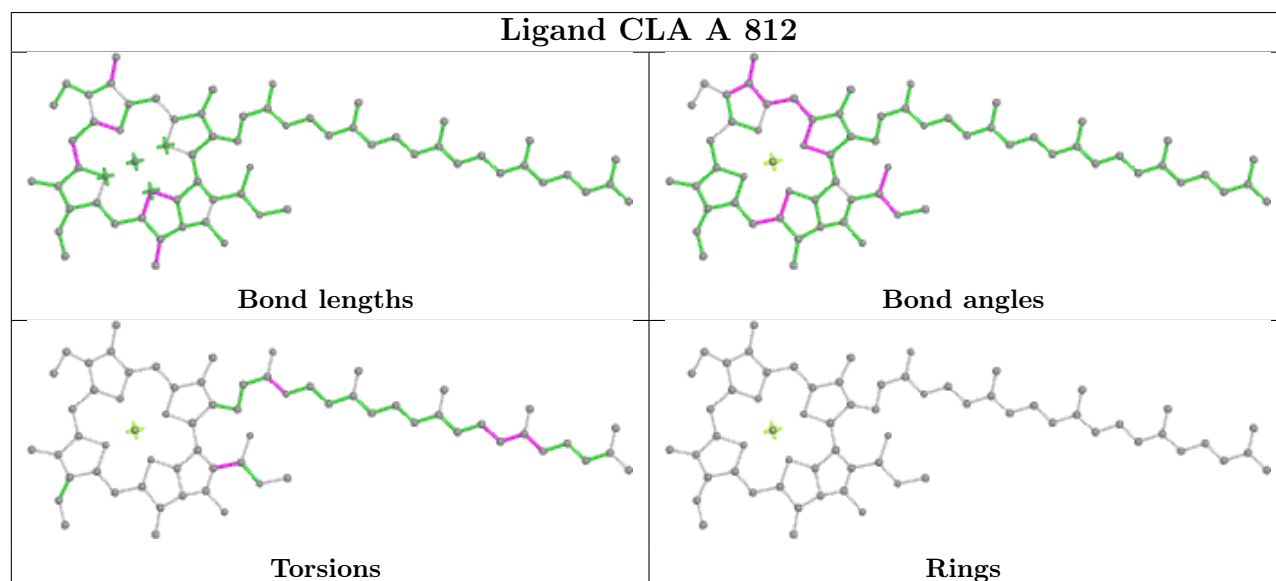
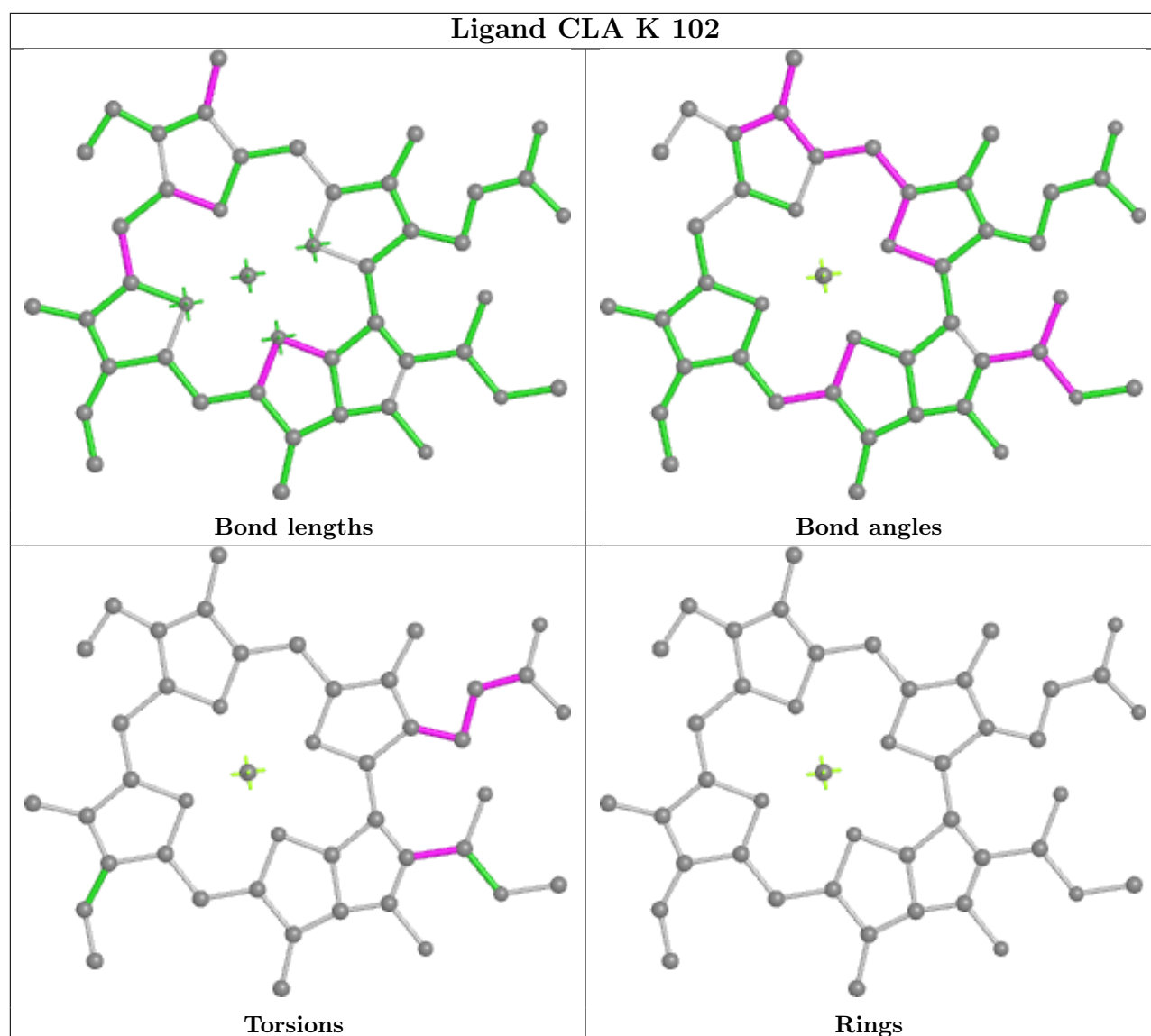


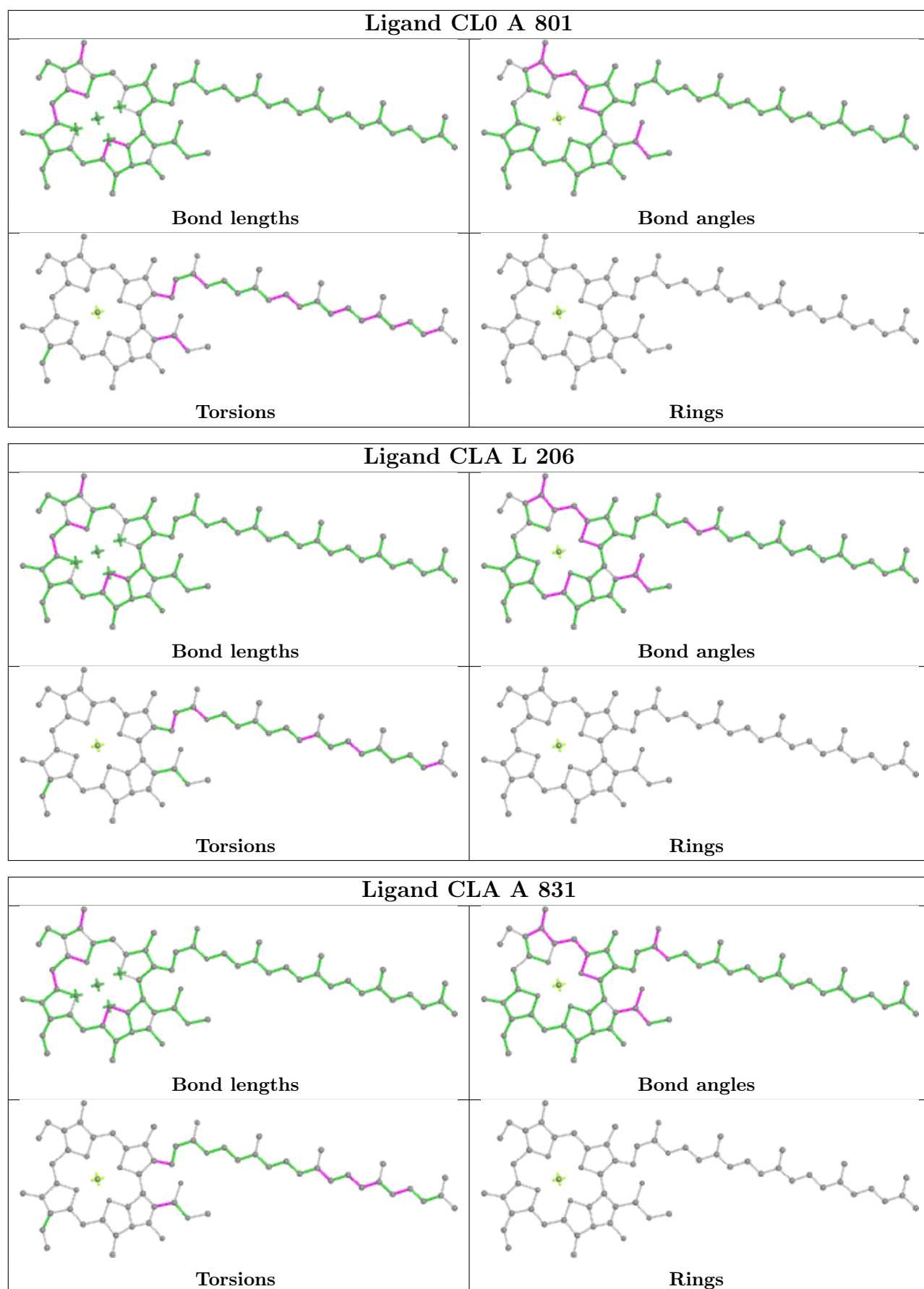


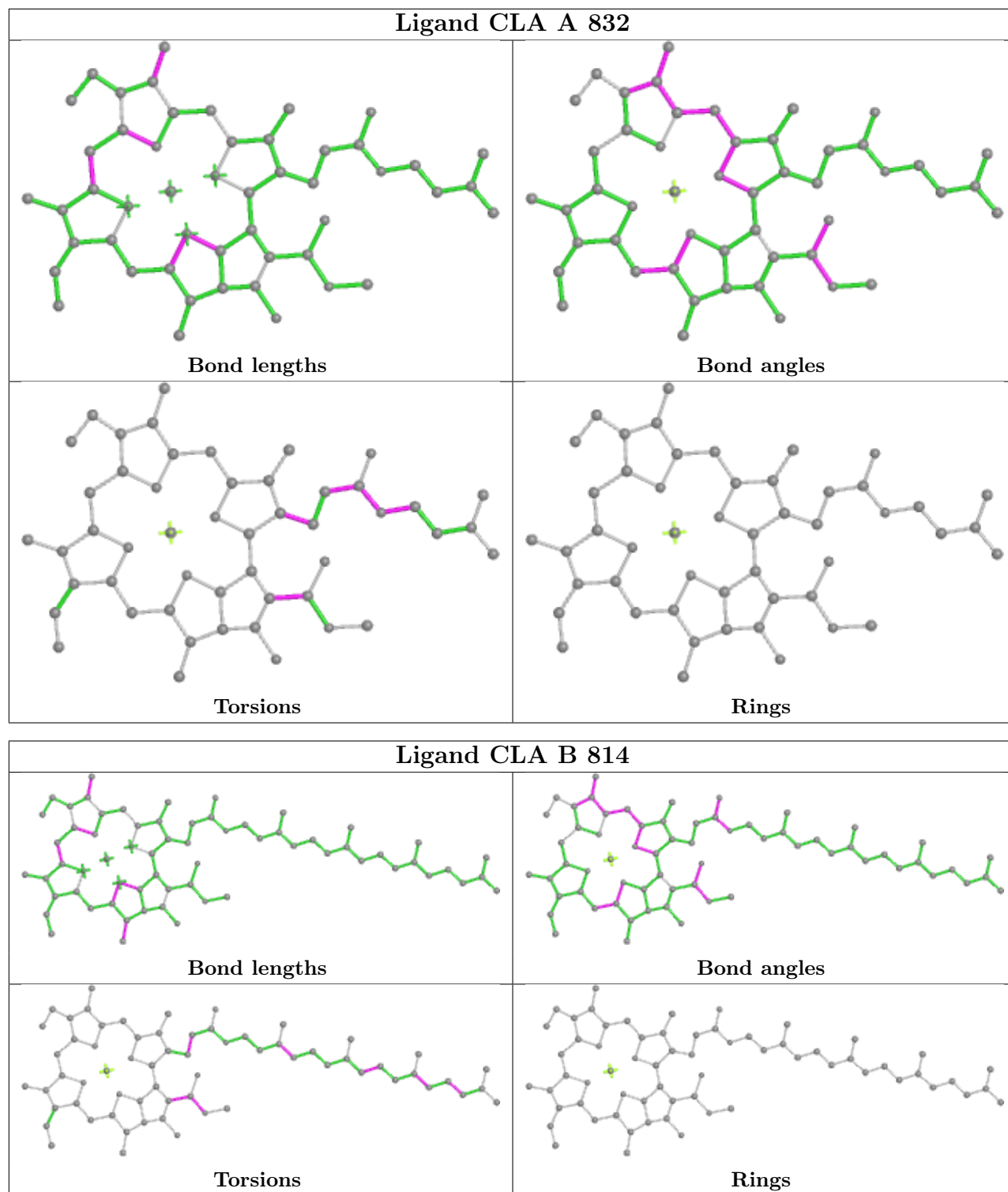


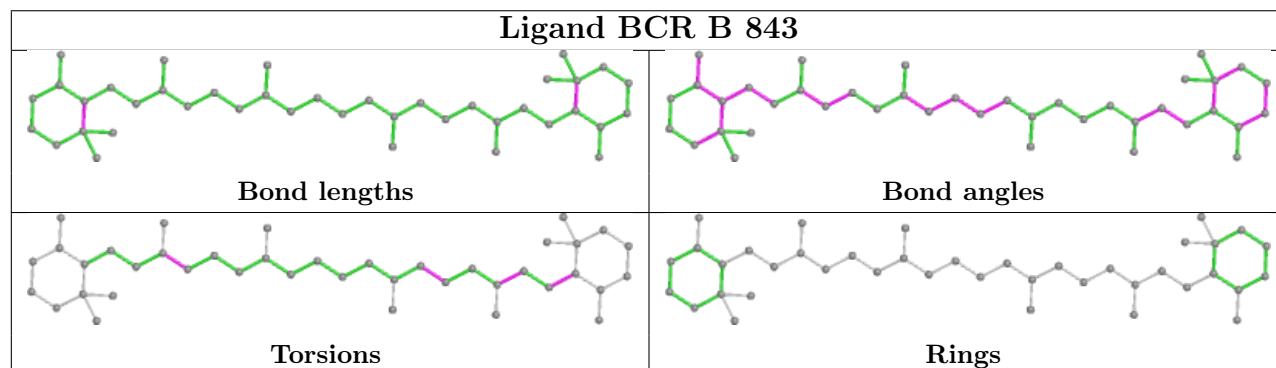
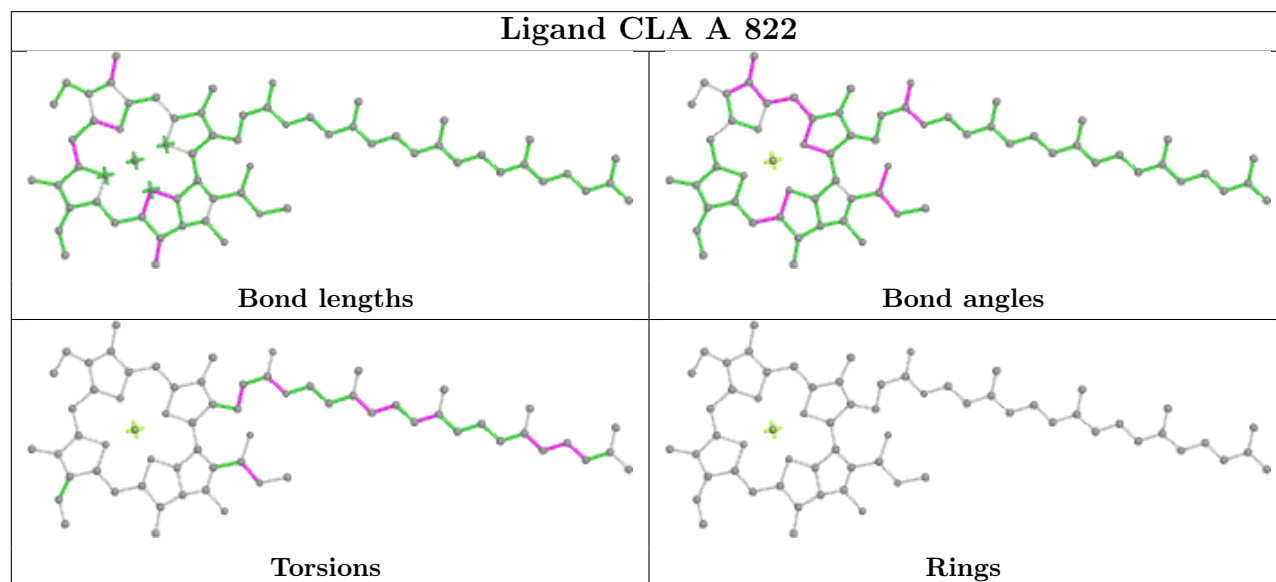
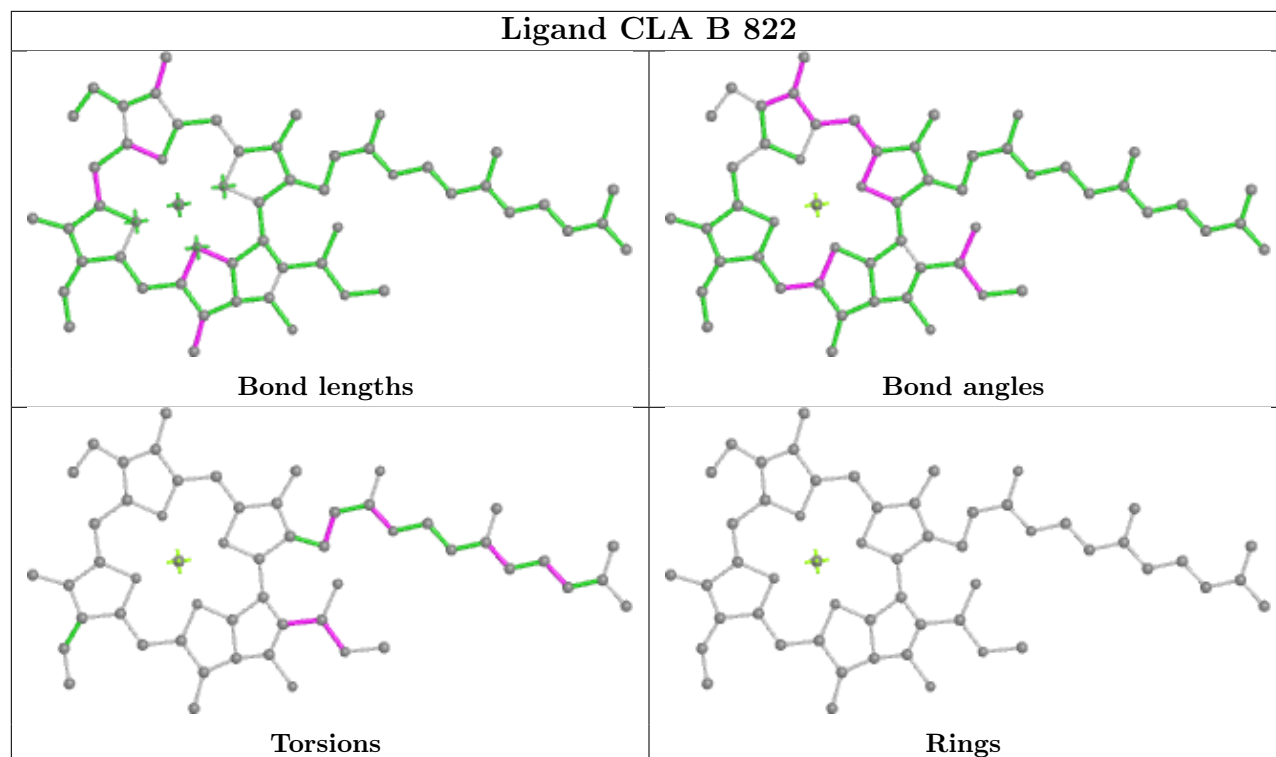


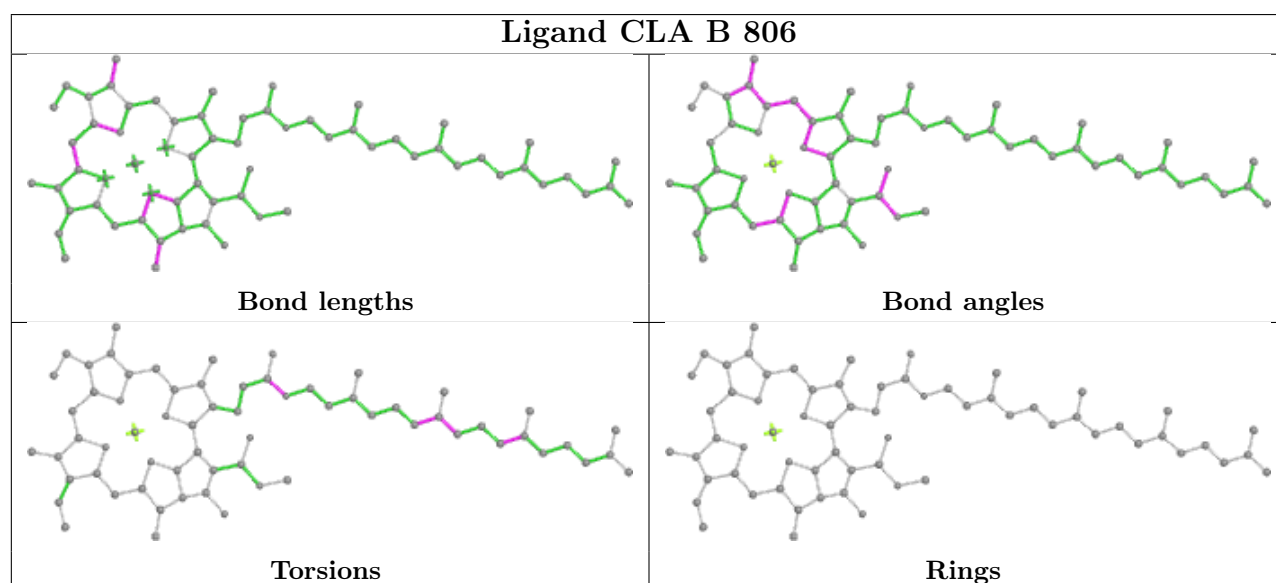
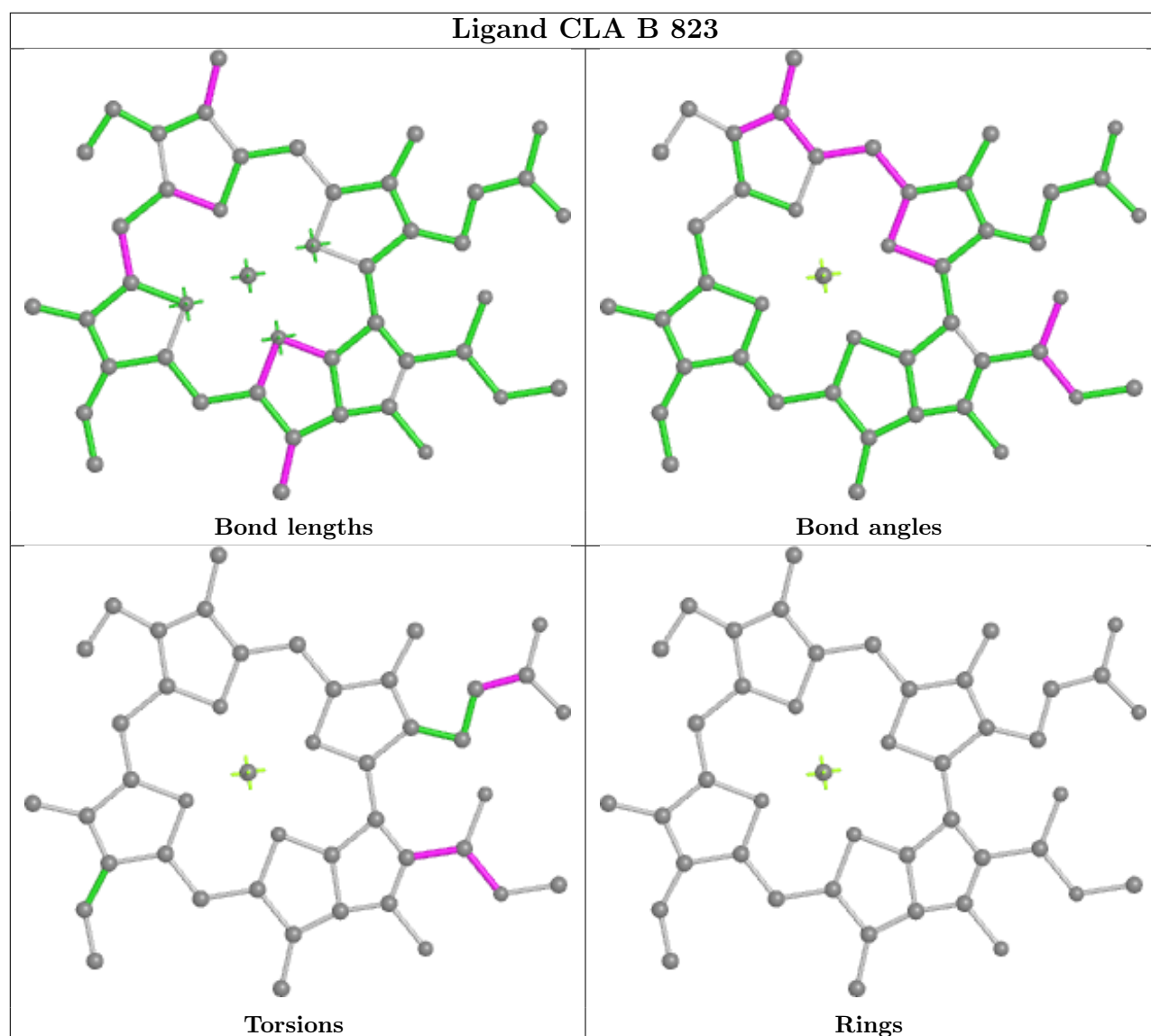












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 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	A	740/755 (98%)	-0.40	11 (1%) 73 46	2, 50, 98, 135	0
2	B	739/740 (99%)	-0.54	2 (0%) 94 84	2, 26, 68, 102	0
3	C	80/80 (100%)	-0.55	0 100 100	2, 20, 44, 49	0
4	D	138/138 (100%)	-0.47	1 (0%) 87 69	3, 30, 54, 101	0
5	E	69/75 (92%)	-0.36	0 100 100	22, 44, 65, 79	0
6	F	141/164 (85%)	-0.28	2 (1%) 75 49	20, 68, 85, 92	0
7	I	38/38 (100%)	-0.58	0 100 100	2, 6, 29, 53	0
8	J	41/41 (100%)	-0.51	0 100 100	62, 78, 91, 105	0
9	K	47/83 (56%)	0.32	6 (12%) 3 1	87, 123, 138, 154	0
10	L	151/154 (98%)	-0.57	1 (0%) 87 69	2, 4, 34, 84	0
11	M	31/31 (100%)	-0.49	0 100 100	4, 16, 38, 65	0
12	X	29/35 (82%)	-0.16	1 (3%) 45 19	40, 52, 78, 92	0
All	All	2244/2334 (96%)	-0.45	24 (1%) 80 56	2, 35, 92, 154	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	315	TYR	5.1
4	D	1	THR	4.4
2	B	212	LEU	3.6
1	A	244	LEU	3.5
6	F	26	ALA	3.4
9	K	42	GLY	3.3
1	A	257	ASP	3.1
1	A	120	ILE	3.1
9	K	36	SER	3.0
1	A	278	PHE	2.8
9	K	57	PRO	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	113	SER	2.6
12	X	8	THR	2.6
9	K	61	ALA	2.5
9	K	55	GLY	2.4
1	A	504	ASN	2.3
1	A	114	ALA	2.3
9	K	33	ALA	2.2
10	L	104	GLY	2.2
6	F	1	ASP	2.1
1	A	317	THR	2.1
1	A	274	ALA	2.1
1	A	515	GLY	2.1
2	B	218	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 monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
14	CLA	M	102	45/65	0.61	0.31	57,105,140,154	0
14	CLA	A	816	45/65	0.69	0.30	79,117,143,153	0
17	BCR	A	847	40/40	0.72	0.36	81,120,140,149	0
17	BCR	A	848	40/40	0.73	0.37	70,105,135,149	0
18	LMG	A	853	48/55	0.73	0.42	30,87,126,134	0
17	BCR	J	105	40/40	0.74	0.30	41,87,128,135	0
14	CLA	A	823	49/65	0.75	0.20	52,90,119,131	0
18	LMG	I	102	40/55	0.76	0.32	23,59,94,118	0
21	LMT	L	202	35/35	0.76	0.33	48,116,152,165	0
17	BCR	A	849	40/40	0.77	0.41	51,93,145,150	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
17	BCR	B	843	40/40	0.77	0.36	49,84,117,135	0
17	BCR	B	847	40/40	0.78	0.25	19,65,98,106	0
17	BCR	F	203	40/40	0.78	0.32	17,68,100,121	0
18	LMG	A	856	30/55	0.79	0.27	6,57,119,135	0
14	CLA	A	828	65/65	0.80	0.22	33,66,102,109	0
19	LHG	M	101	49/49	0.80	0.20	21,63,138,155	0
14	CLA	K	102	45/65	0.80	0.22	75,105,138,139	0
14	CLA	B	837	60/65	0.81	0.27	15,55,86,96	0
14	CLA	A	812	65/65	0.81	0.22	55,87,118,120	0
14	CLA	A	818	54/65	0.81	0.21	69,98,125,135	0
22	DGD	L	207	66/66	0.81	0.28	19,73,129,142	0
14	CLA	A	817	49/65	0.82	0.29	37,101,133,134	0
17	BCR	J	103	40/40	0.82	0.23	34,76,98,103	0
14	CLA	B	817	59/65	0.82	0.22	21,55,83,91	0
14	CLA	A	837	45/65	0.83	0.23	54,78,101,111	0
14	CLA	K	101	41/65	0.83	0.20	86,123,158,168	0
14	CLA	A	844	52/65	0.83	0.22	18,57,85,93	0
17	BCR	A	850	40/40	0.83	0.27	35,65,129,131	0
14	CLA	A	815	45/65	0.83	0.19	59,88,123,130	0
17	BCR	B	846	40/40	0.84	0.25	27,53,73,79	0
14	CLA	J	101	45/65	0.84	0.37	91,111,145,149	0
17	BCR	B	851	40/40	0.84	0.34	20,58,101,108	0
14	CLA	A	805	59/65	0.85	0.19	48,72,99,115	0
14	CLA	A	824	51/65	0.85	0.27	41,74,106,112	0
19	LHG	A	854	49/49	0.85	0.29	12,58,82,92	0
14	CLA	A	826	65/65	0.85	0.16	45,74,105,108	0
14	CLA	A	814	60/65	0.85	0.23	47,88,113,115	0
14	CLA	A	836	54/65	0.85	0.22	20,61,102,109	0
14	CLA	B	833	58/65	0.86	0.27	36,72,110,115	0
14	CLA	A	831	65/65	0.86	0.21	29,61,84,92	0
14	CLA	A	811	45/65	0.86	0.16	66,99,125,133	0
14	CLA	A	807	65/65	0.86	0.18	30,58,84,90	0
14	CLA	A	813	54/65	0.86	0.18	47,74,102,110	0
14	CLA	B	811	45/65	0.86	0.27	18,41,61,84	0
14	CLA	A	810	65/65	0.86	0.20	18,73,122,135	0
14	CLA	B	820	47/65	0.86	0.20	43,72,103,108	0
14	CLA	A	830	65/65	0.87	0.19	29,62,92,95	0
14	CLA	B	812	45/65	0.87	0.16	31,63,89,93	0
14	CLA	A	820	65/65	0.87	0.21	39,74,99,107	0
17	BCR	J	104	40/40	0.87	0.19	52,90,119,124	0
15	PQN	B	842	33/33	0.87	0.21	27,47,66,70	0
14	CLA	A	832	50/65	0.87	0.19	6,35,65,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
14	CLA	B	822	55/65	0.87	0.21	42,68,95,96	0
14	CLA	A	825	59/65	0.87	0.26	23,57,97,109	0
14	CLA	A	821	43/65	0.87	0.22	46,104,144,150	0
19	LHG	B	850	23/49	0.87	0.20	46,85,113,119	0
14	CLA	F	202	45/65	0.87	0.24	60,89,119,125	0
14	CLA	A	809	65/65	0.87	0.20	12,58,97,102	0
14	CLA	J	102	37/65	0.87	0.27	76,99,123,137	0
14	CLA	B	834	45/65	0.88	0.19	28,47,69,71	0
14	CLA	B	836	45/65	0.88	0.33	37,62,94,95	0
14	CLA	A	804	65/65	0.88	0.17	33,72,99,106	0
14	CLA	A	808	51/65	0.88	0.16	55,76,104,107	0
14	CLA	X	1701	45/65	0.88	0.20	49,78,108,114	0
17	BCR	B	844	40/40	0.88	0.25	22,48,88,97	0
14	CLA	B	819	65/65	0.88	0.23	22,65,95,106	0
14	CLA	B	816	55/65	0.89	0.23	35,70,107,140	0
14	CLA	B	804	54/65	0.89	0.19	2,22,41,48	0
14	CLA	A	822	65/65	0.89	0.20	25,61,95,101	0
14	CLA	A	829	65/65	0.89	0.20	33,59,84,91	0
14	CLA	B	821	45/65	0.89	0.17	40,67,93,94	0
17	BCR	A	851	40/40	0.89	0.23	15,47,82,98	0
14	CLA	B	813	65/65	0.89	0.22	15,46,72,76	0
14	CLA	B	828	65/65	0.89	0.21	2,35,53,71	0
17	BCR	B	845	40/40	0.89	0.23	16,50,105,117	0
14	CLA	B	814	65/65	0.89	0.20	19,51,86,91	0
14	CLA	B	815	45/65	0.89	0.18	35,56,89,92	0
15	PQN	A	845	33/33	0.89	0.21	61,89,118,121	0
14	CLA	L	205	65/65	0.90	0.18	2,19,91,104	0
14	CLA	B	823	45/65	0.90	0.19	4,35,68,80	0
17	BCR	M	103	40/40	0.90	0.22	2,22,50,56	0
14	CLA	B	825	46/65	0.90	0.21	10,38,62,64	0
14	CLA	B	838	65/65	0.90	0.20	16,62,101,117	0
14	CLA	A	834	65/65	0.90	0.20	2,11,39,45	0
14	CLA	B	832	65/65	0.90	0.27	29,60,86,95	0
14	CLA	A	819	54/65	0.90	0.17	35,68,90,106	0
14	CLA	A	857	65/65	0.90	0.21	12,39,65,76	0
17	BCR	I	101	40/40	0.90	0.23	2,2,24,41	0
14	CLA	B	835	45/65	0.90	0.22	18,53,81,85	0
14	CLA	L	206	65/65	0.91	0.19	2,20,49,59	0
14	CLA	A	839	65/65	0.91	0.19	2,32,71,94	0
19	LHG	A	855	27/49	0.91	0.20	20,53,90,91	0
14	CLA	B	824	54/65	0.91	0.17	21,38,60,61	0
14	CLA	A	806	65/65	0.91	0.20	40,74,110,115	0

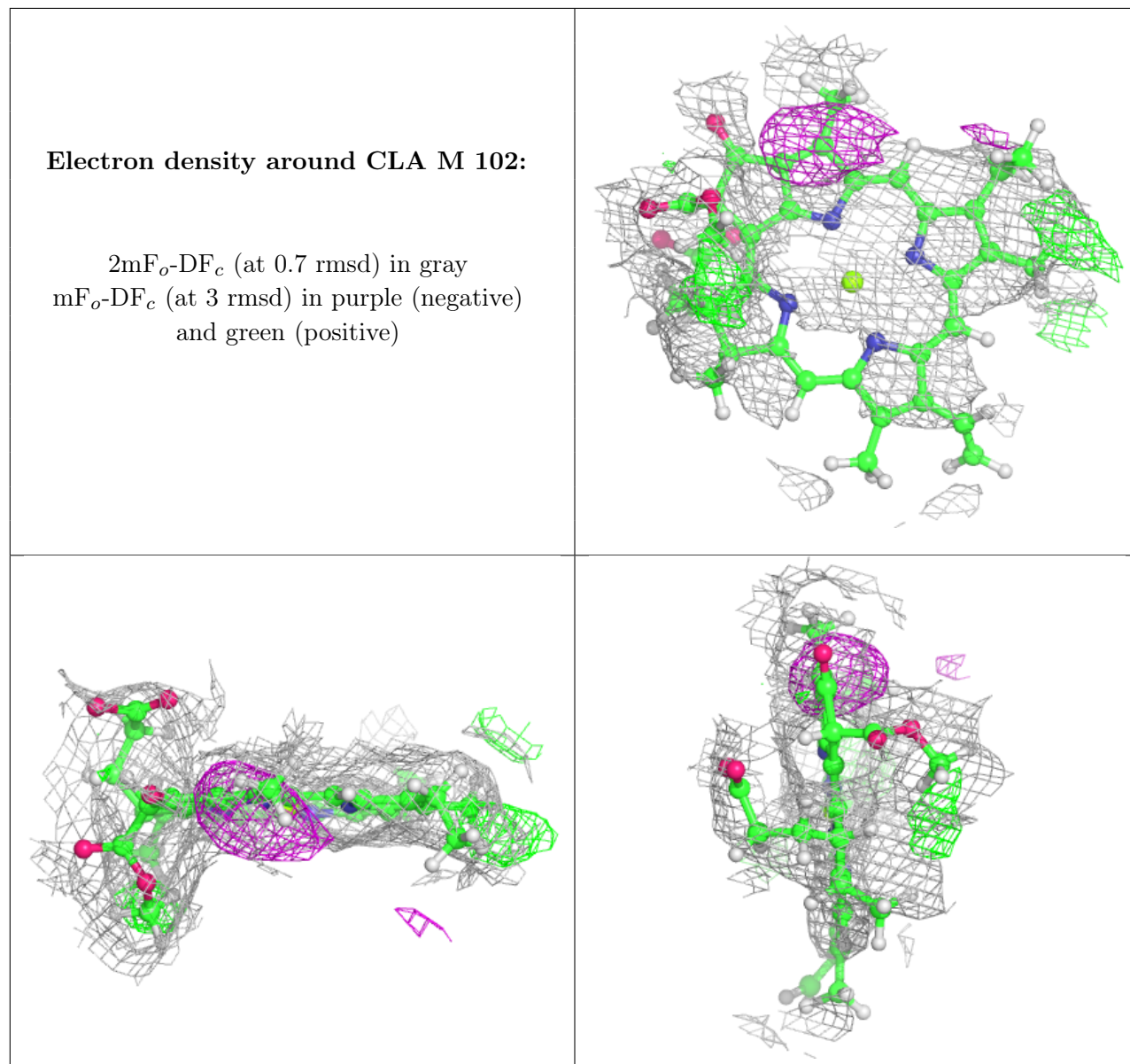
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
14	CLA	F	201	51/65	0.91	0.15	10,49,98,117	0
14	CLA	A	838	51/65	0.91	0.18	10,33,53,76	0
17	BCR	A	852	40/40	0.92	0.18	2,37,64,66	0
14	CLA	B	826	65/65	0.92	0.17	11,39,65,70	0
14	CLA	B	827	65/65	0.92	0.20	2,22,74,76	0
14	CLA	A	841	65/65	0.92	0.21	6,42,97,106	0
18	LMG	B	849	55/55	0.92	0.20	2,31,57,61	0
14	CLA	B	830	45/65	0.92	0.18	19,47,69,87	0
14	CLA	B	807	65/65	0.92	0.22	2,9,40,63	0
14	CLA	A	843	65/65	0.92	0.21	2,2,24,33	0
14	CLA	A	803	65/65	0.92	0.17	16,41,61,82	0
14	CLA	B	818	60/65	0.92	0.20	23,44,74,81	0
14	CLA	L	204	65/65	0.92	0.18	2,15,46,67	0
14	CLA	A	827	65/65	0.92	0.18	3,42,119,141	0
14	CLA	B	808	65/65	0.93	0.17	2,13,45,50	0
17	BCR	B	848	40/40	0.93	0.20	2,8,34,35	0
14	CLA	B	829	65/65	0.93	0.17	2,21,53,72	0
14	CLA	B	809	65/65	0.93	0.18	2,12,40,63	0
14	CLA	B	810	65/65	0.93	0.18	2,2,33,43	0
17	BCR	I	103	40/40	0.93	0.17	2,2,21,39	0
14	CLA	B	840	65/65	0.93	0.19	2,2,26,31	0
14	CLA	B	806	65/65	0.93	0.16	2,24,51,64	0
14	CLA	B	802	65/65	0.93	0.15	2,23,44,50	0
17	BCR	L	201	40/40	0.93	0.16	2,8,33,35	0
17	BCR	L	208	40/40	0.93	0.21	2,12,60,72	0
14	CLA	A	840	47/65	0.94	0.16	2,28,49,67	0
13	CL0	A	801	65/65	0.94	0.17	2,20,45,48	0
14	CLA	A	842	65/65	0.94	0.16	11,47,91,109	0
14	CLA	B	805	65/65	0.94	0.18	2,30,63,75	0
14	CLA	A	835	65/65	0.94	0.18	2,6,35,63	0
14	CLA	B	831	49/65	0.94	0.18	8,43,70,96	0
14	CLA	B	839	47/65	0.94	0.22	23,48,67,79	0
20	CA	B	801	1/1	0.94	0.10	43,43,43,43	0
14	CLA	A	833	65/65	0.94	0.20	2,37,109,114	0
14	CLA	B	841	65/65	0.94	0.18	2,3,26,29	0
14	CLA	A	802	65/65	0.95	0.17	2,12,28,48	0
14	CLA	B	803	65/65	0.95	0.15	2,7,27,38	0
16	SF4	A	846	8/8	0.98	0.17	3,20,62,92	0
16	SF4	C	101	8/8	0.98	0.16	2,25,32,45	0
16	SF4	C	102	8/8	0.98	0.15	12,19,36,38	0
20	CA	L	203	1/1	0.99	0.09	2,2,2,2	0

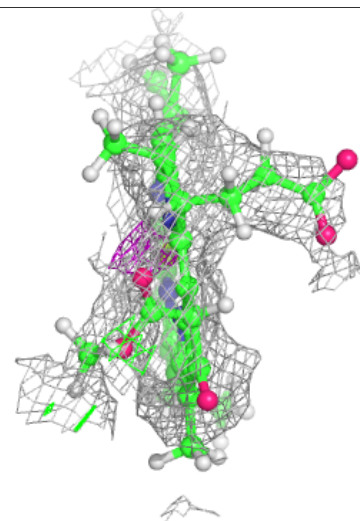
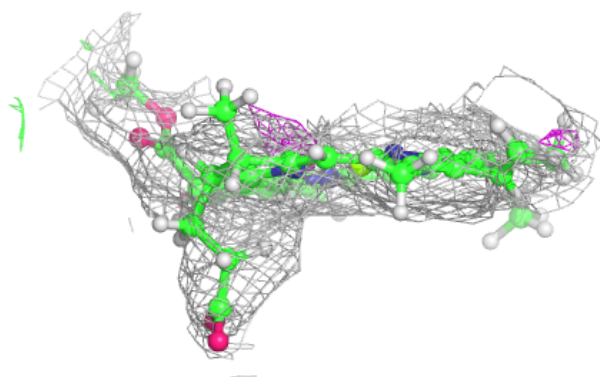
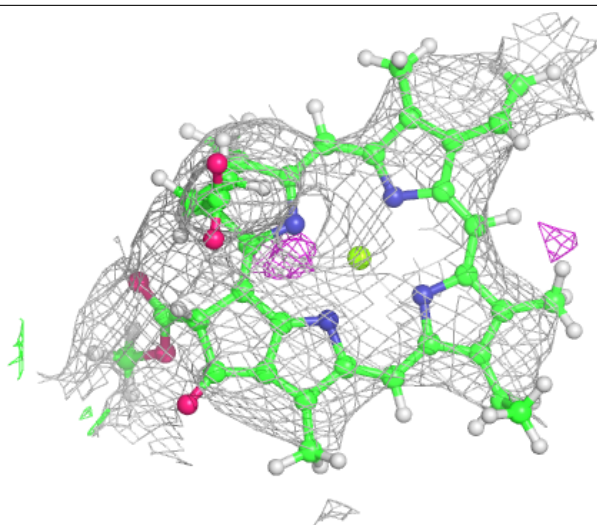
The following is a graphical depiction of the model fit to experimental electron density of all

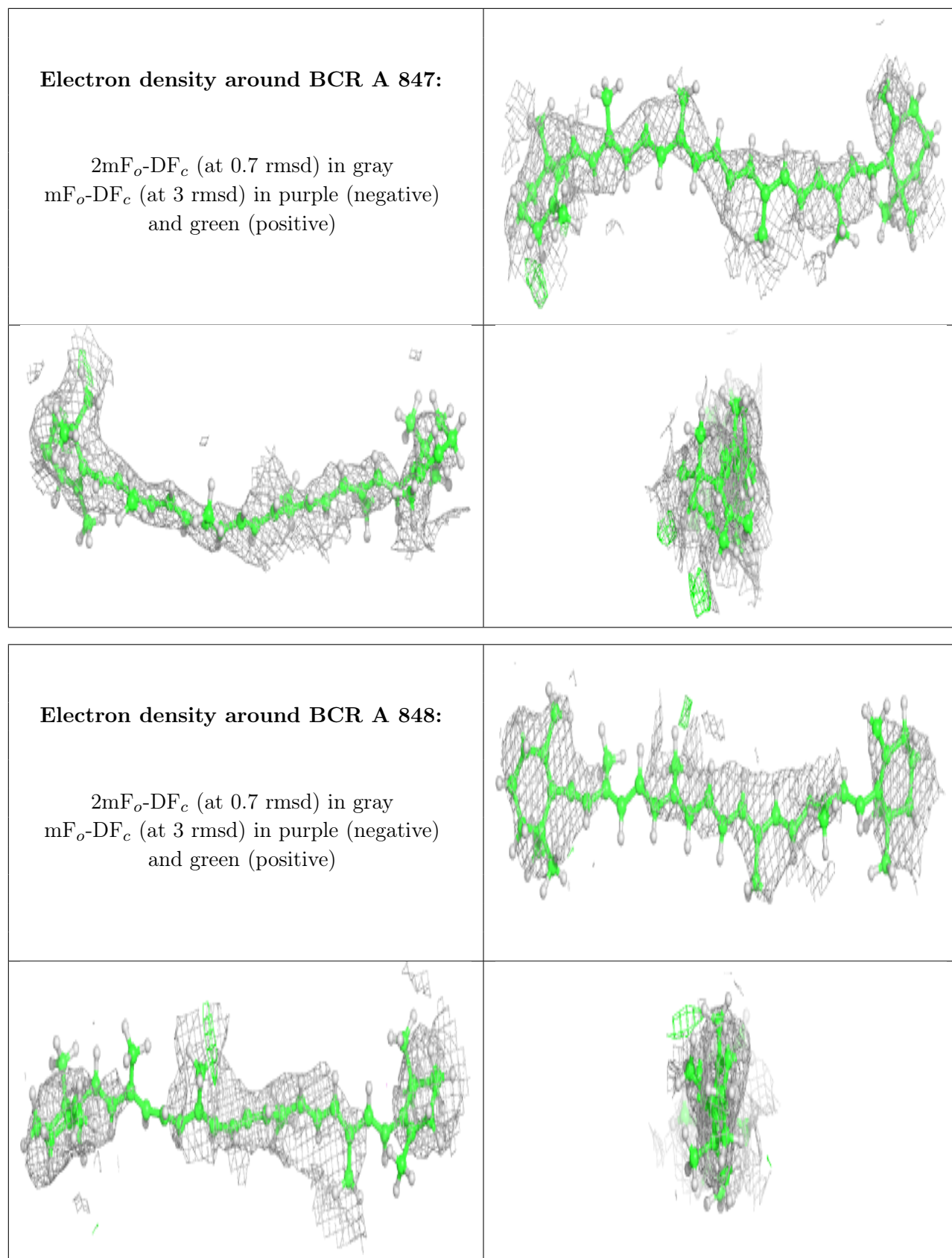
instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



Electron density around CLA A 816:

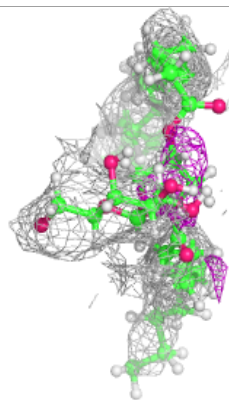
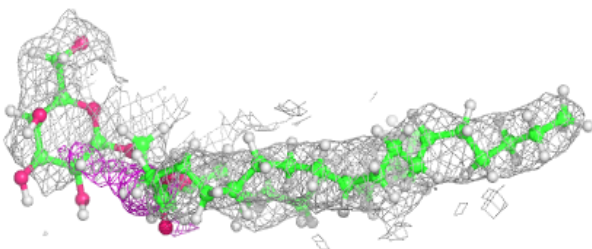
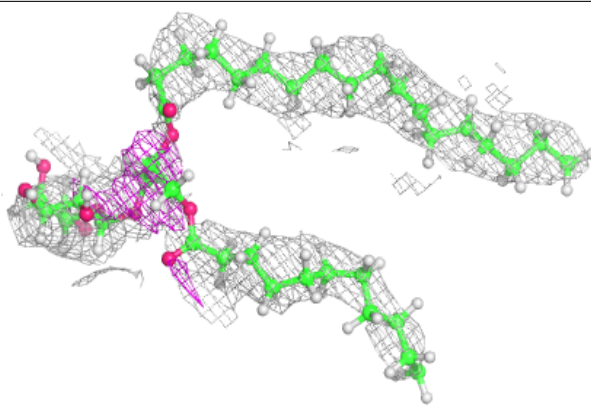
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



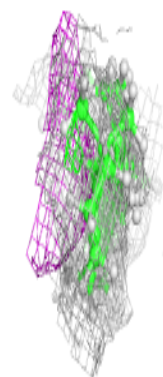
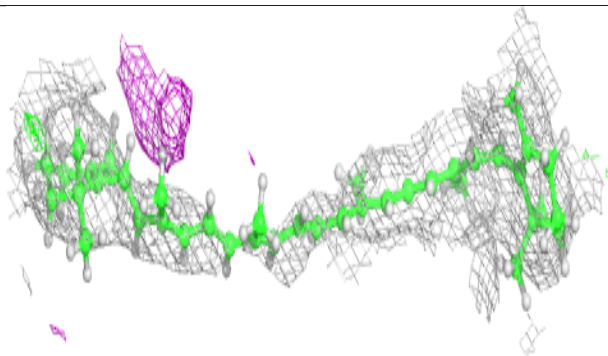
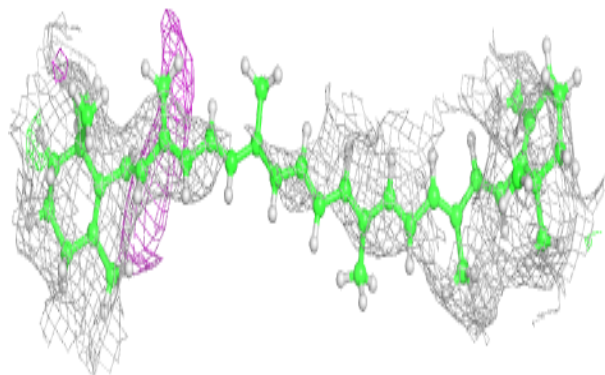


Electron density around LMG A 853:

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

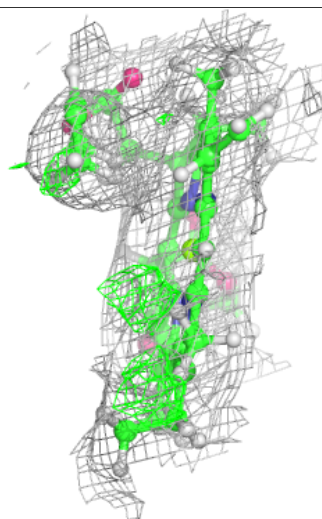
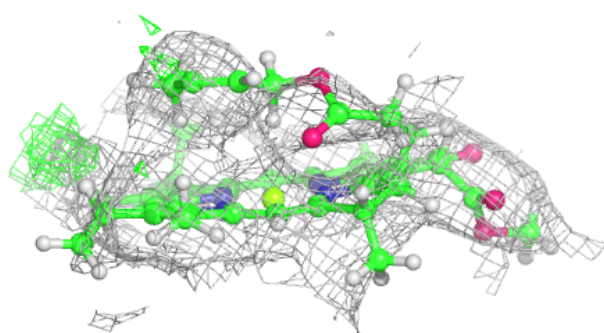
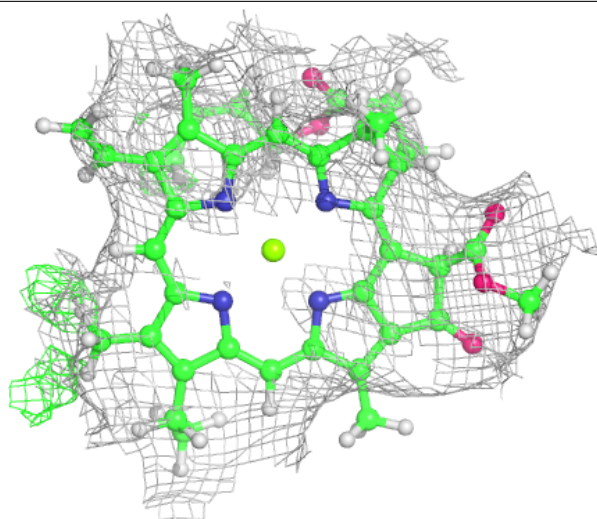
**Electron density around BCR J 105:**

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



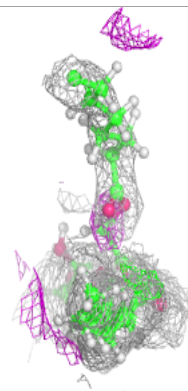
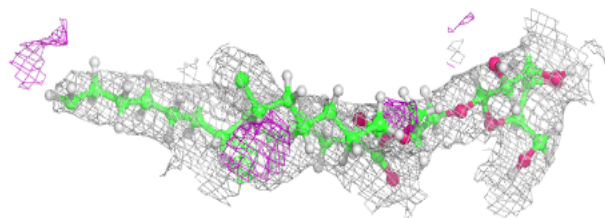
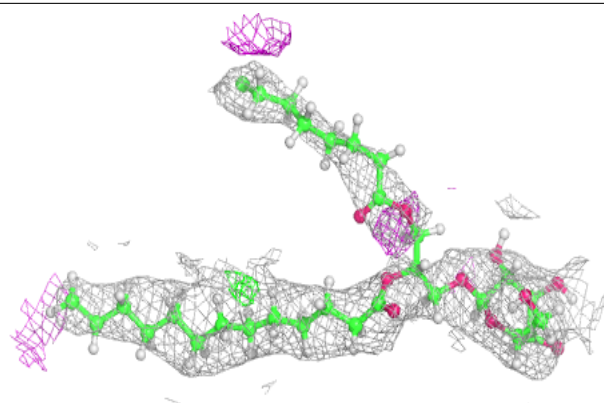
Electron density around CLA A 823:

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

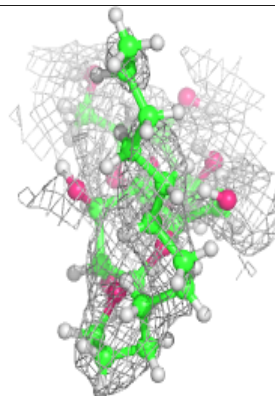
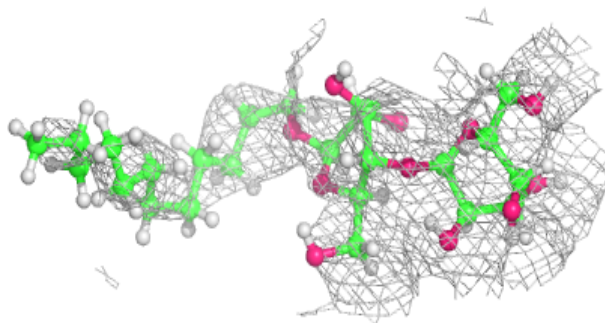
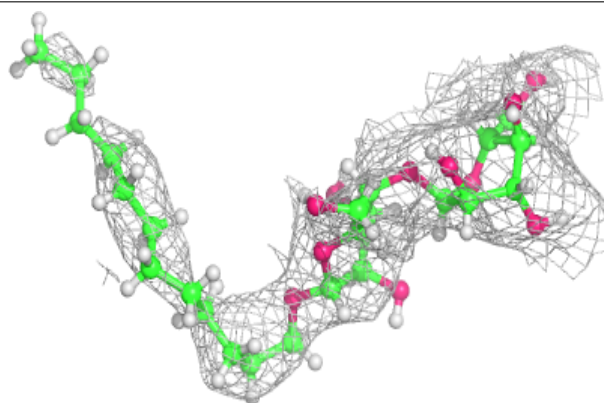


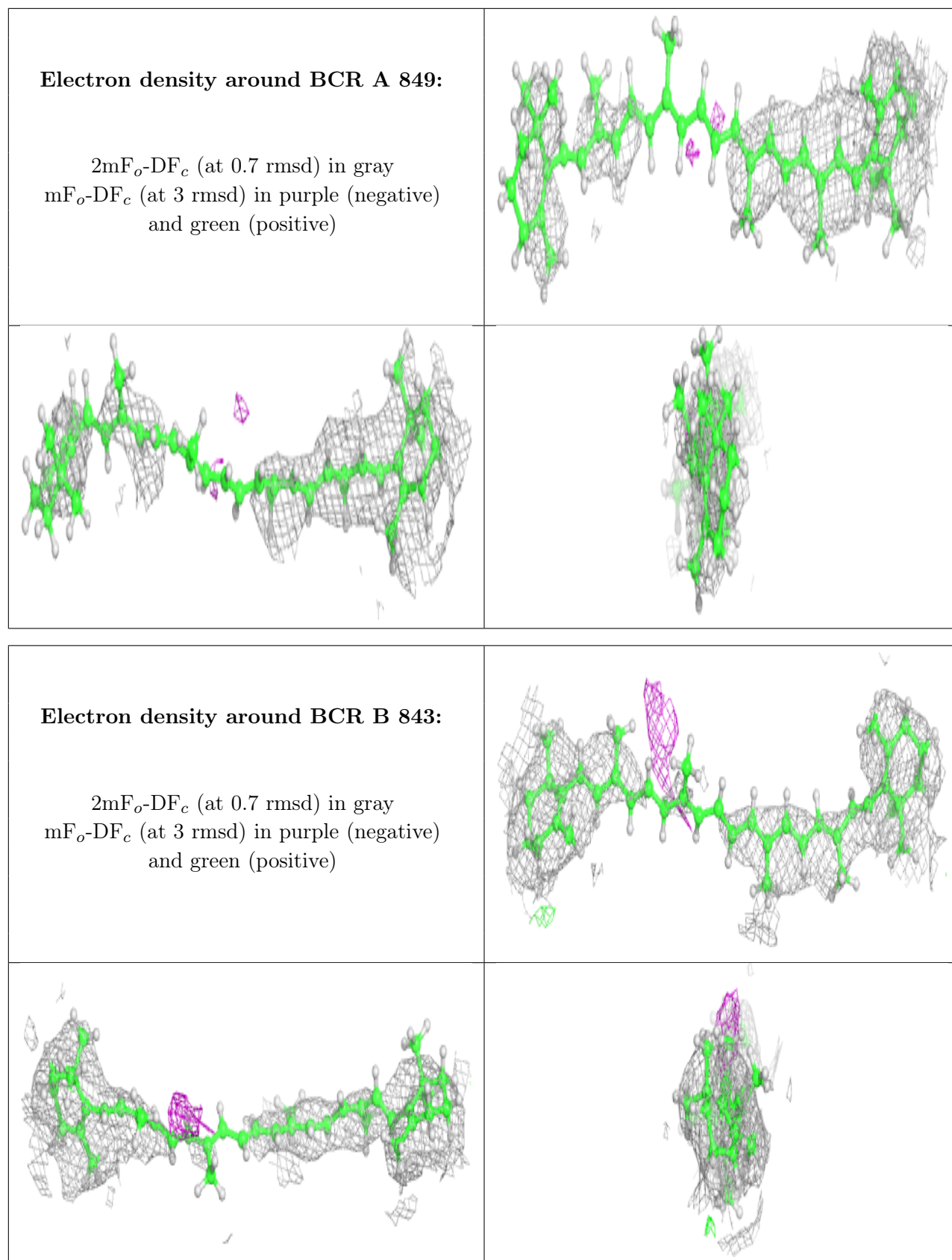
Electron density around LMG I 102:

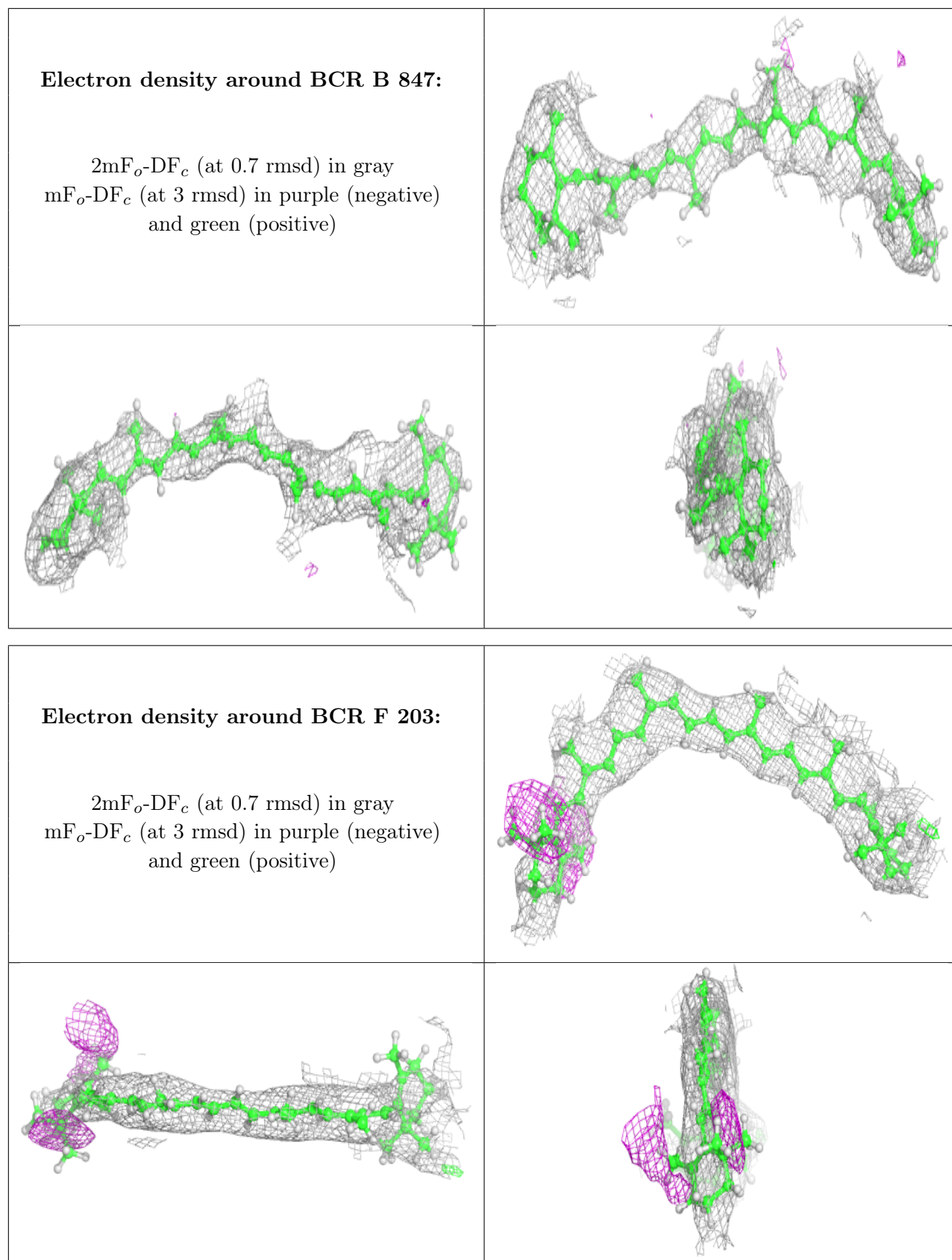
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around LMT L 202:**

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

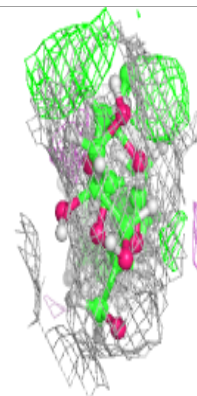
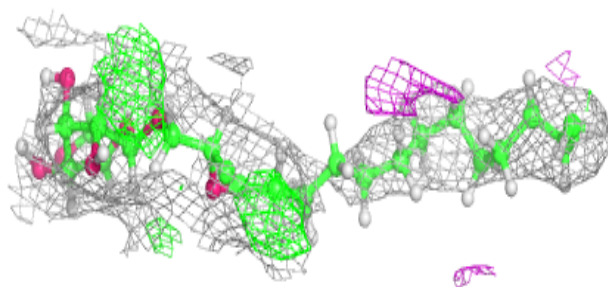
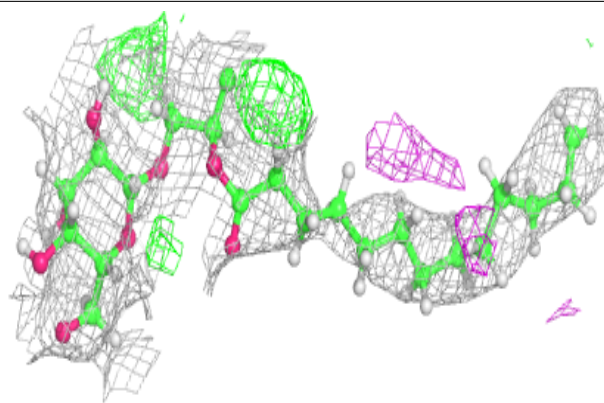




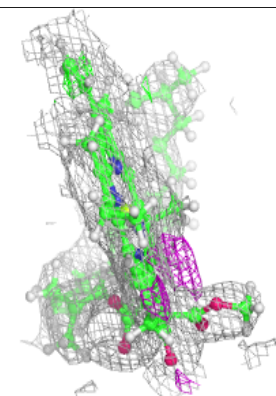
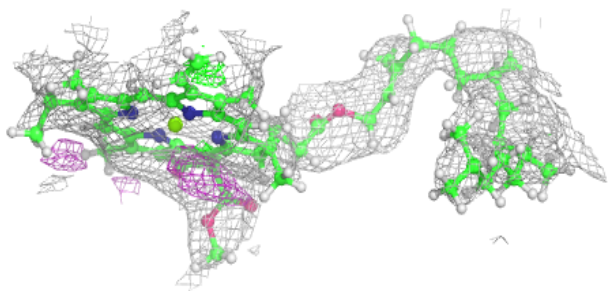
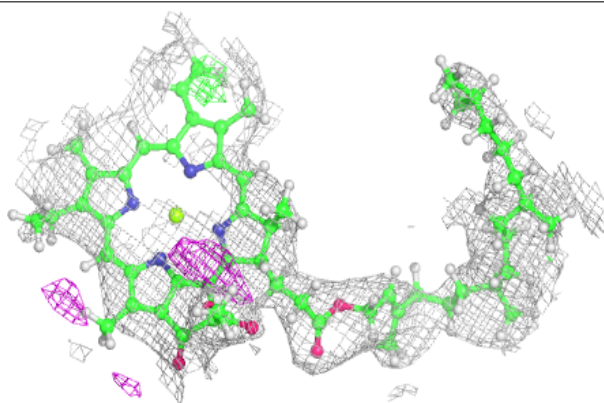


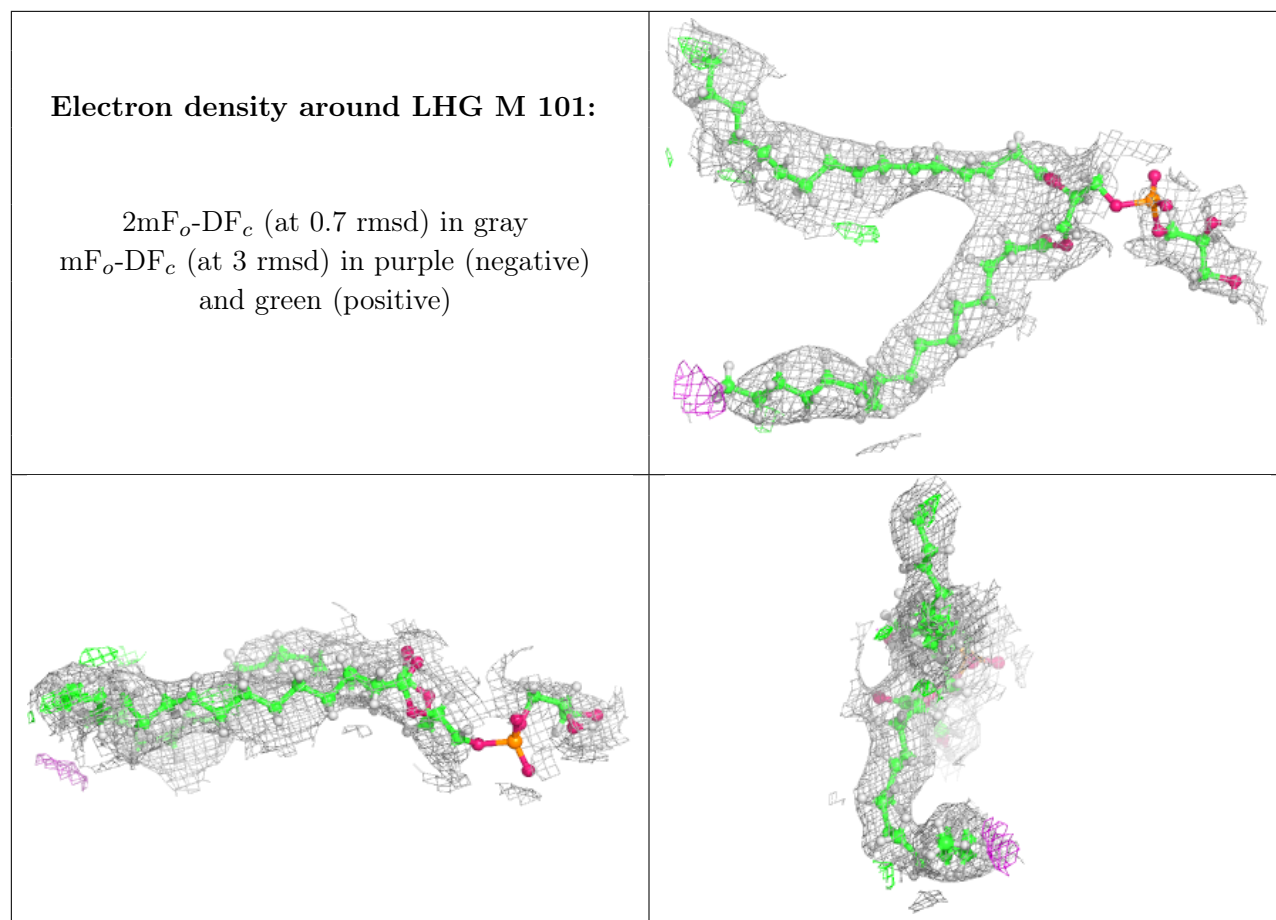
Electron density around LMG A 856:

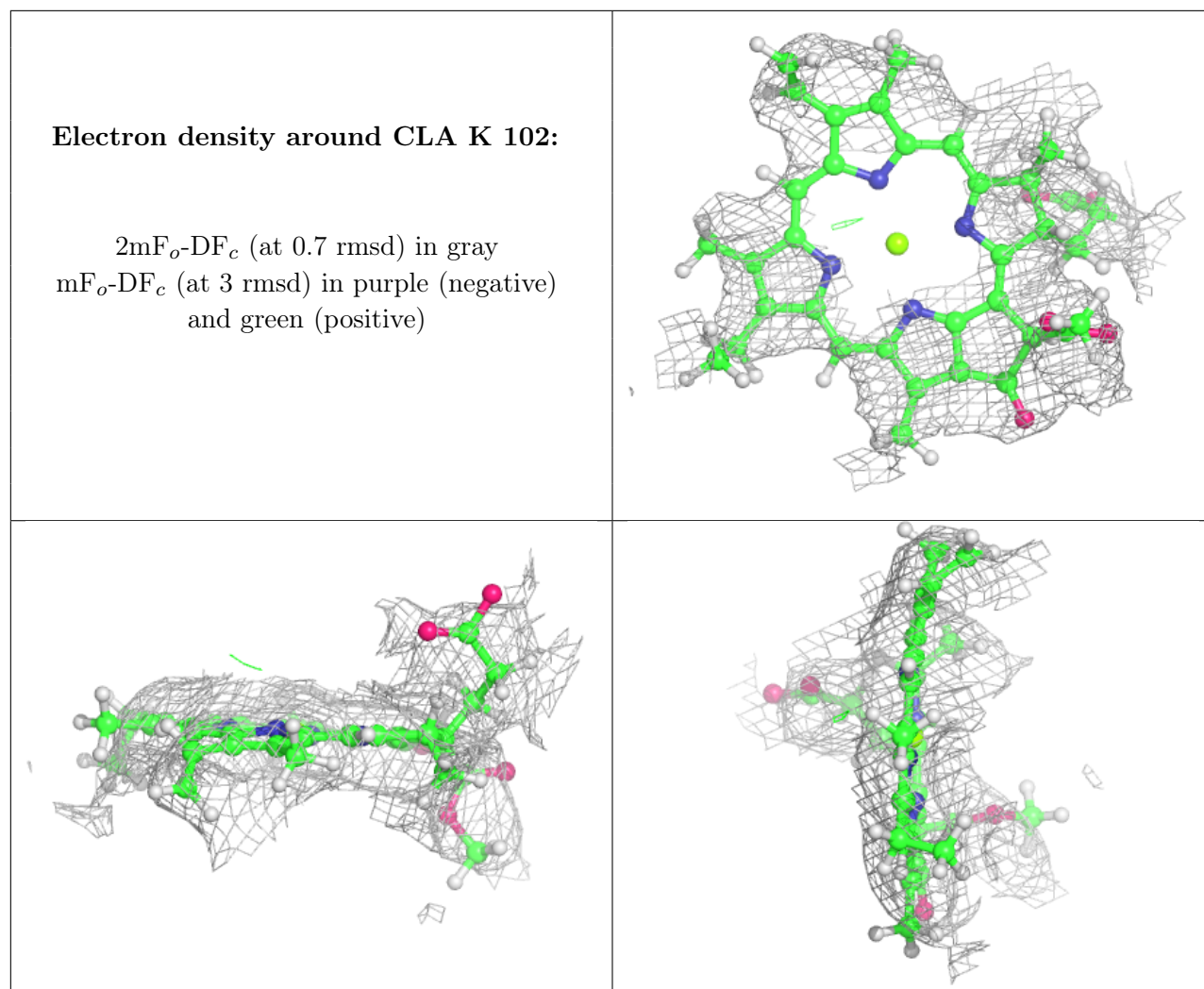
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around CLA A 828:**

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

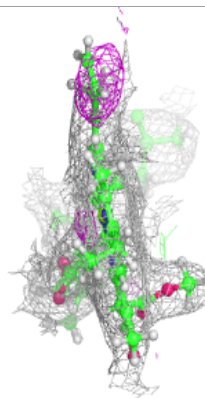
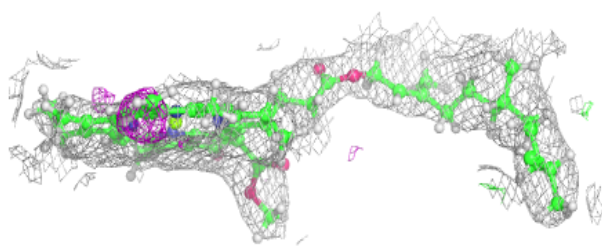
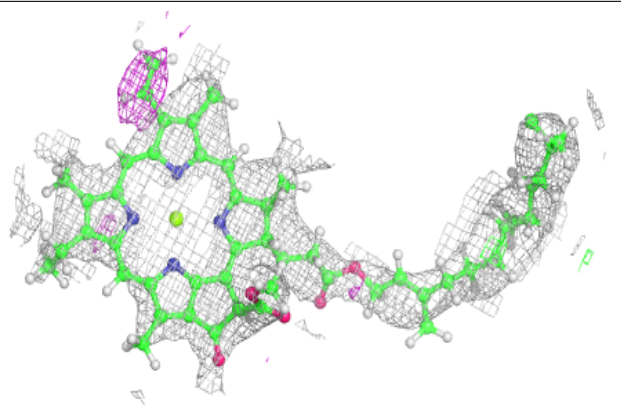




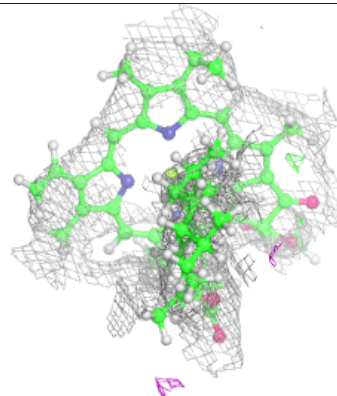
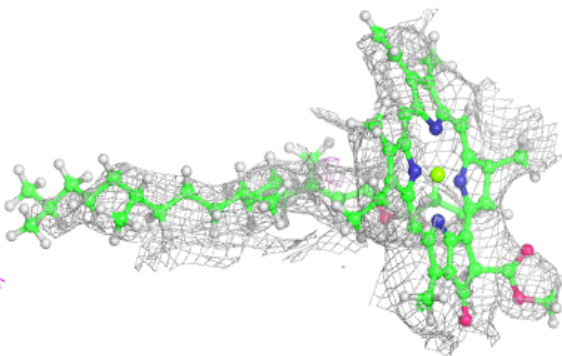
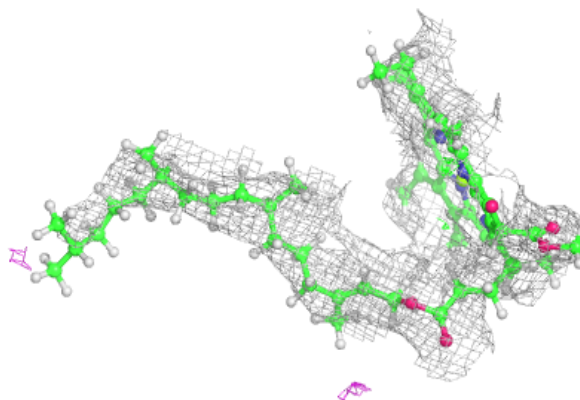


Electron density around CLA B 837:

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

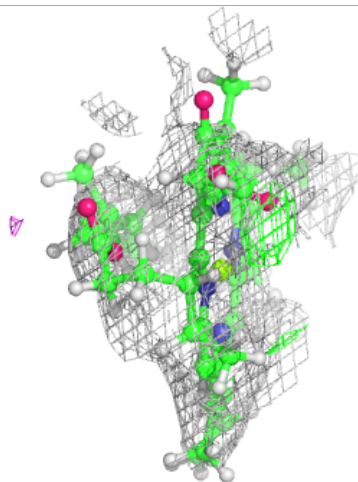
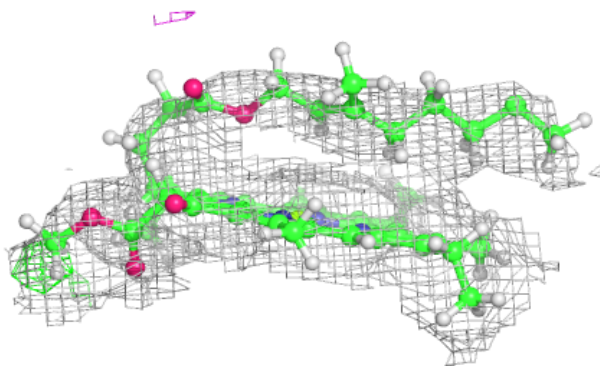
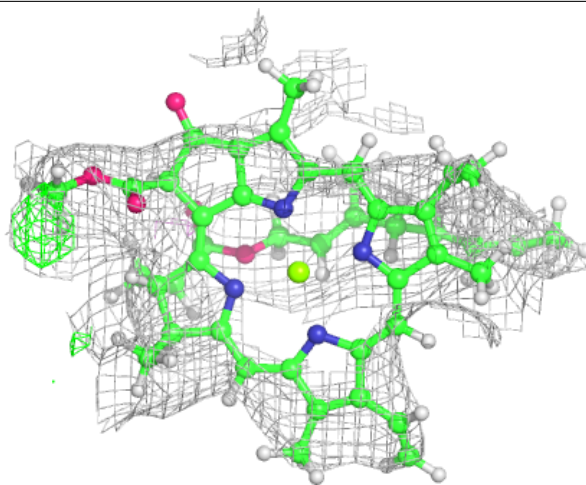
**Electron density around CLA A 812:**

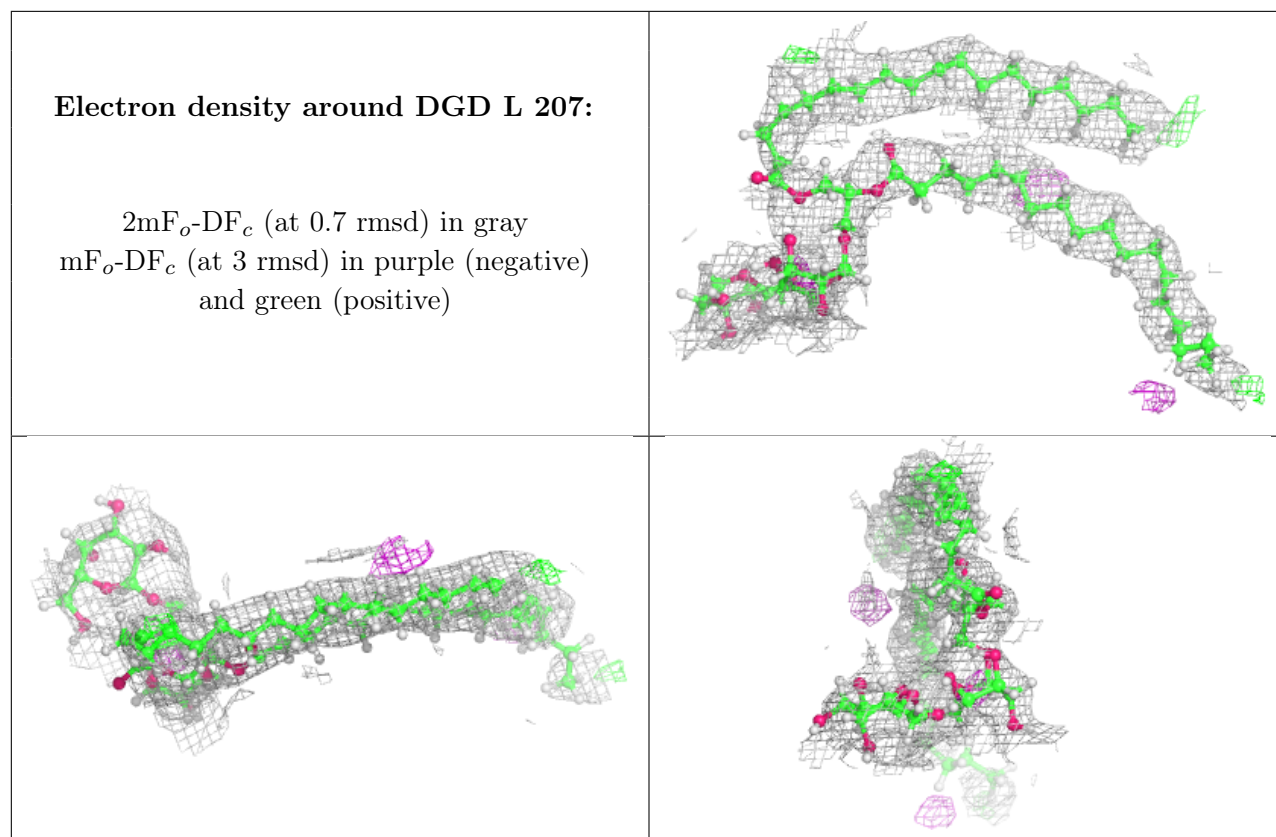
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 818:

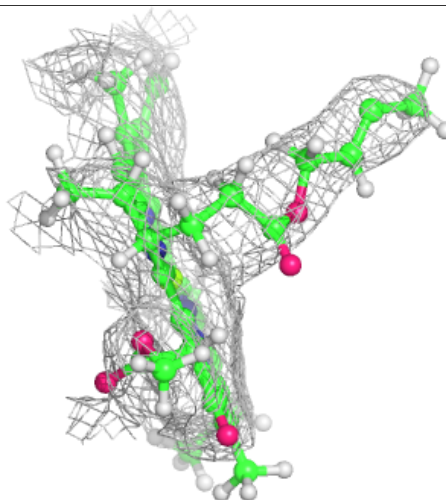
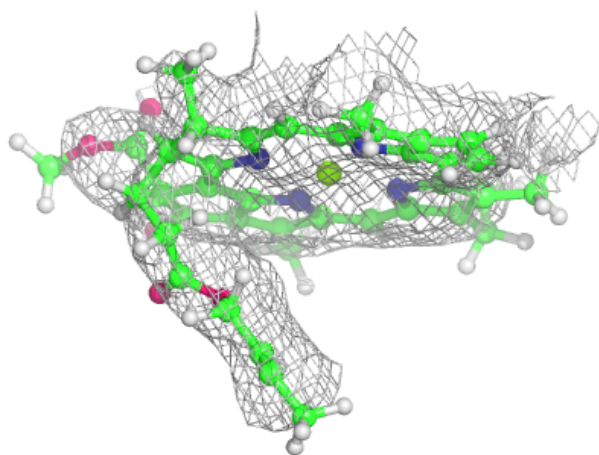
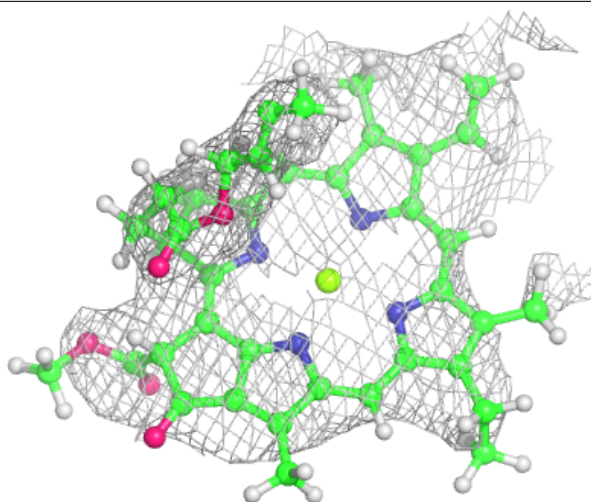
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





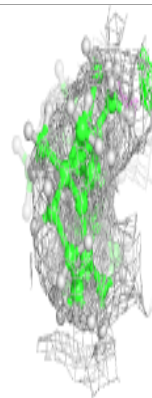
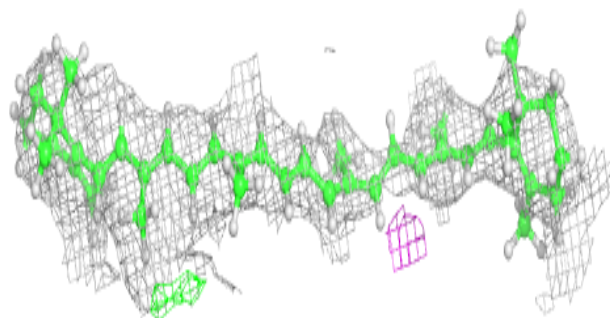
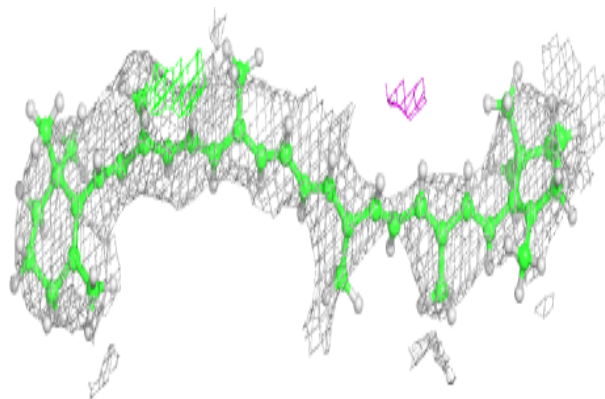
Electron density around CLA A 817:

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



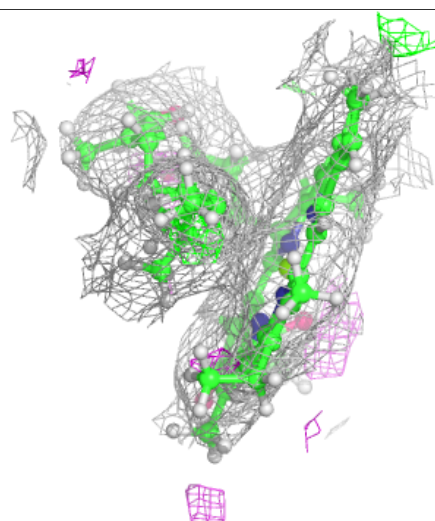
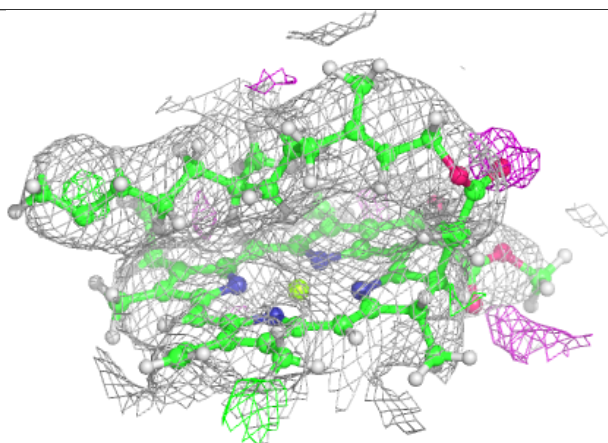
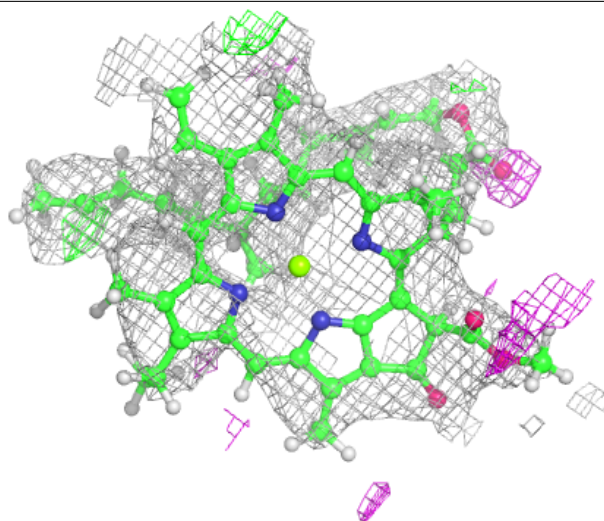
Electron density around BCR J 103:

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



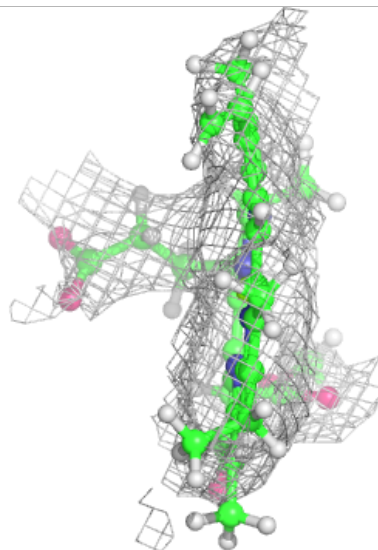
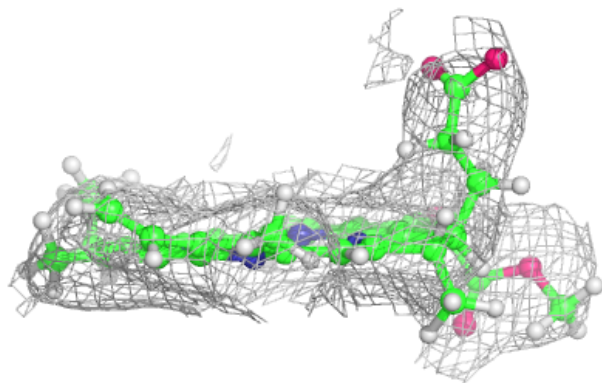
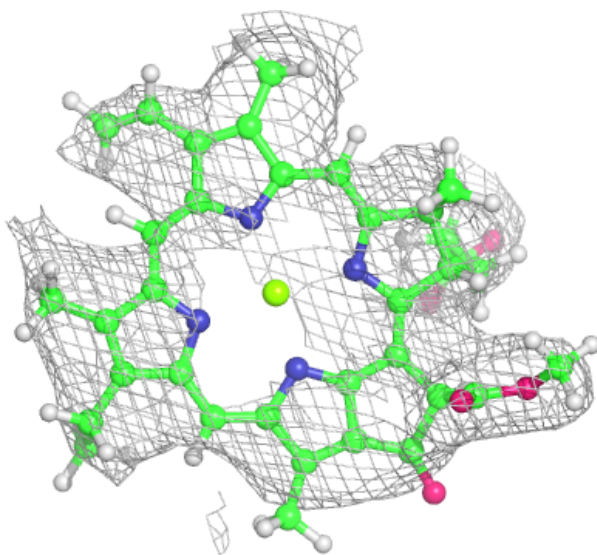
Electron density around CLA B 817:

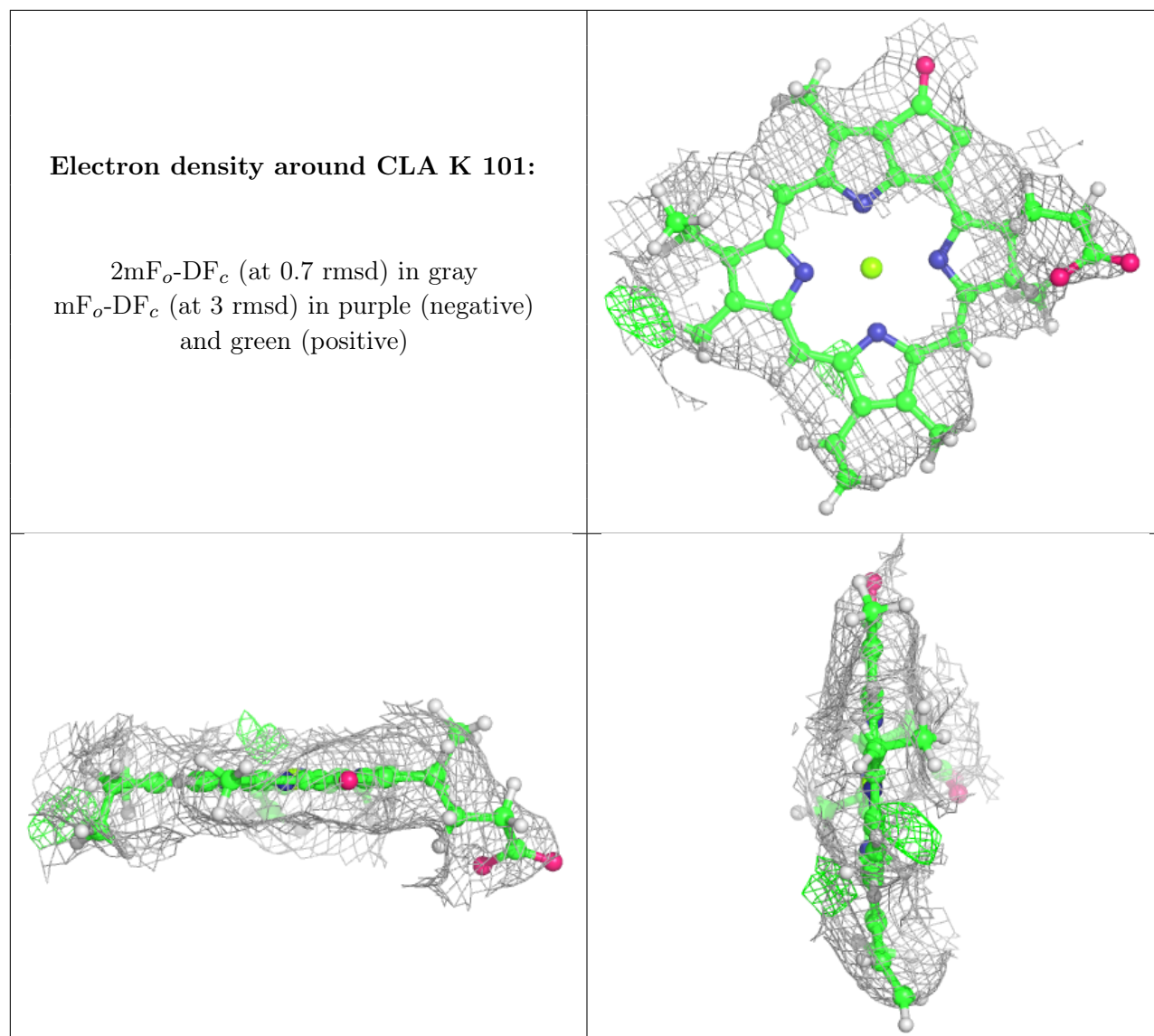
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

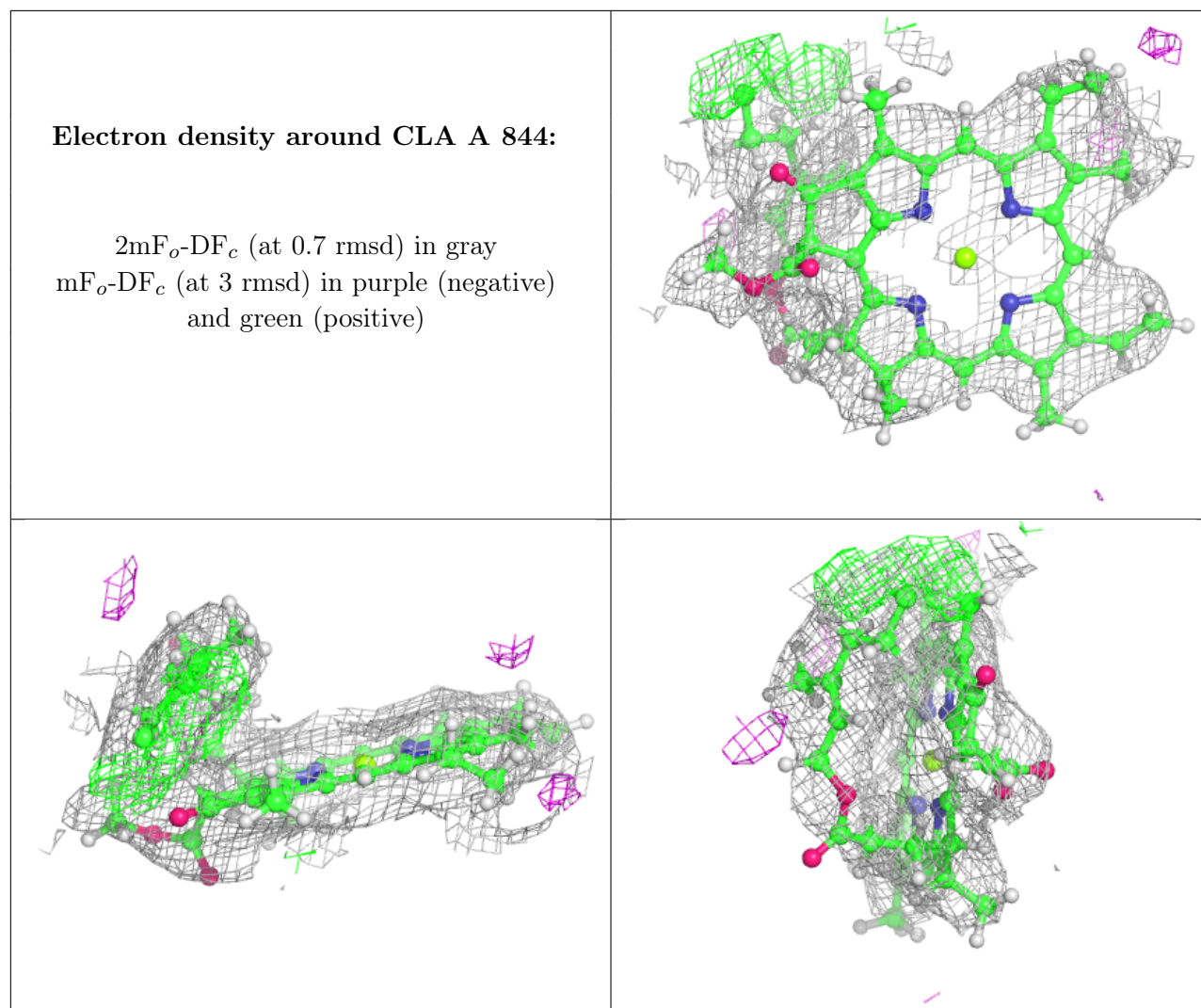


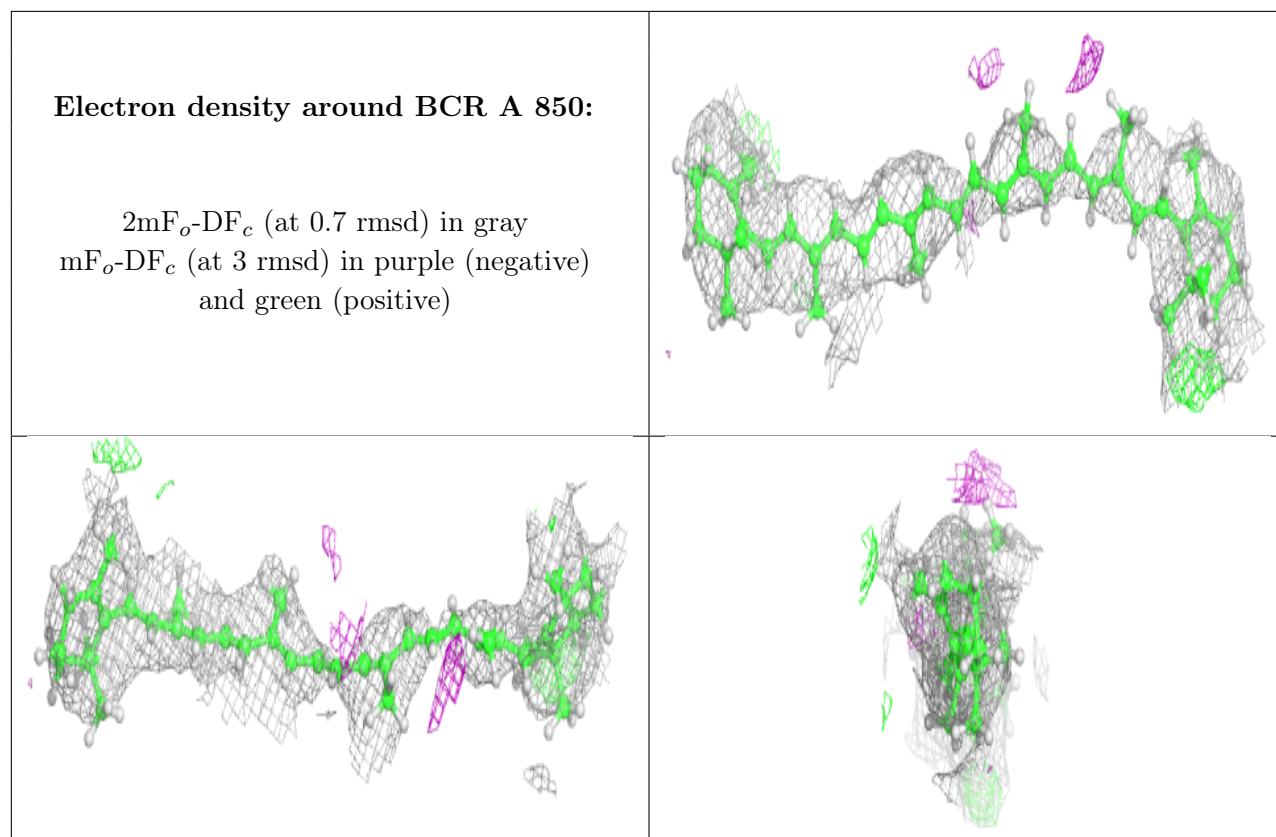
Electron density around CLA A 837:

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



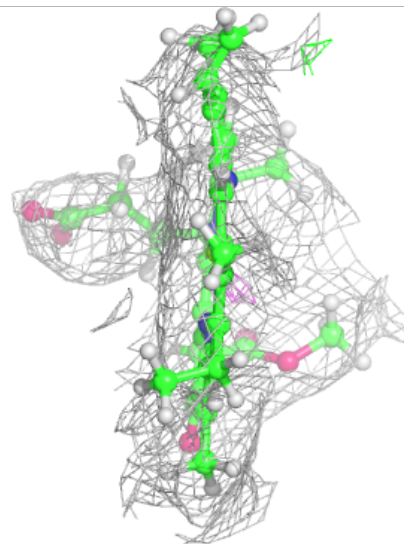
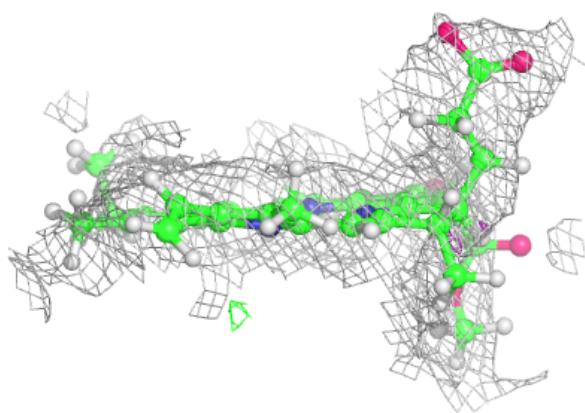
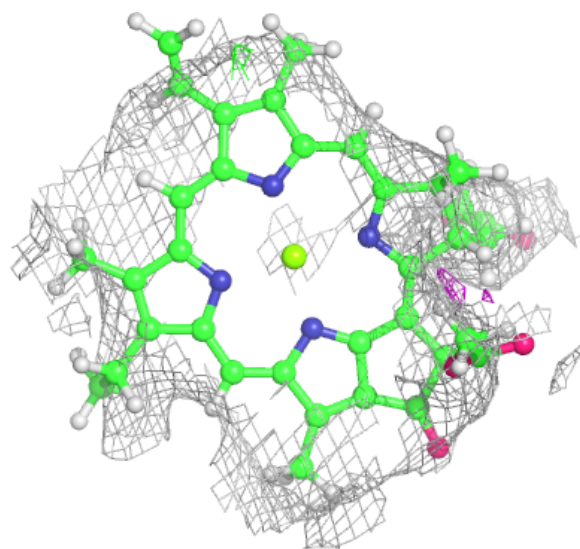


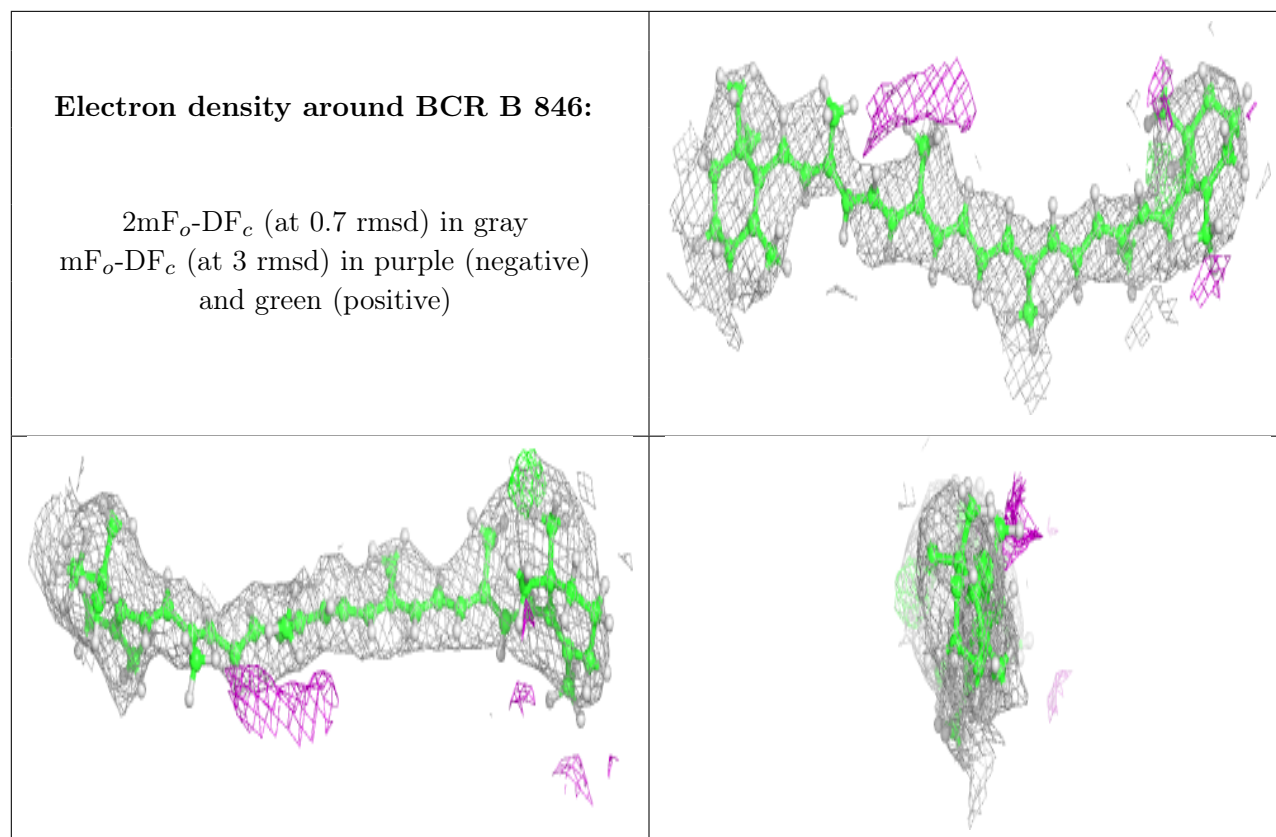




Electron density around CLA A 815:

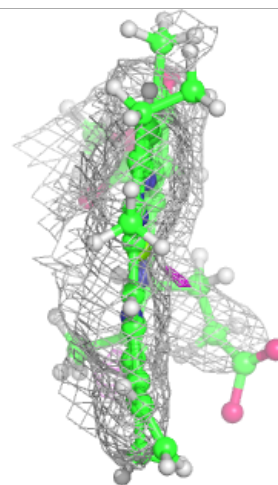
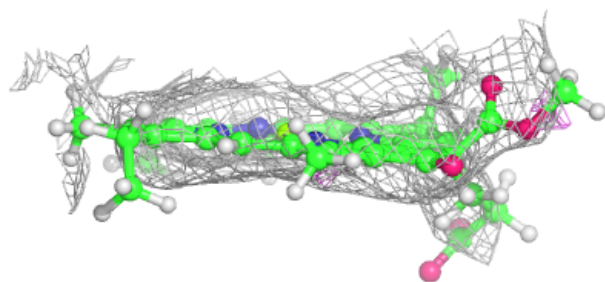
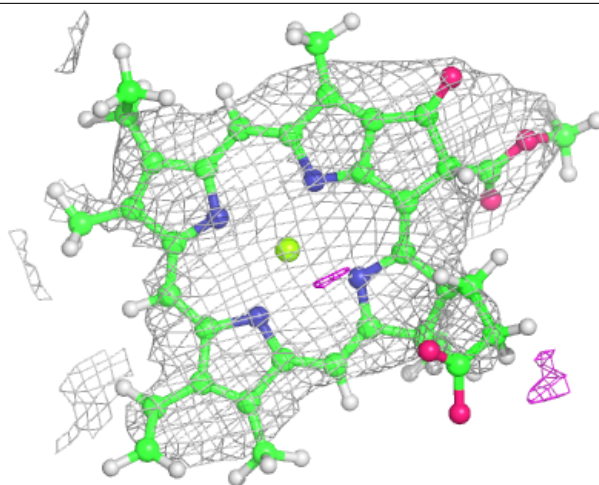
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

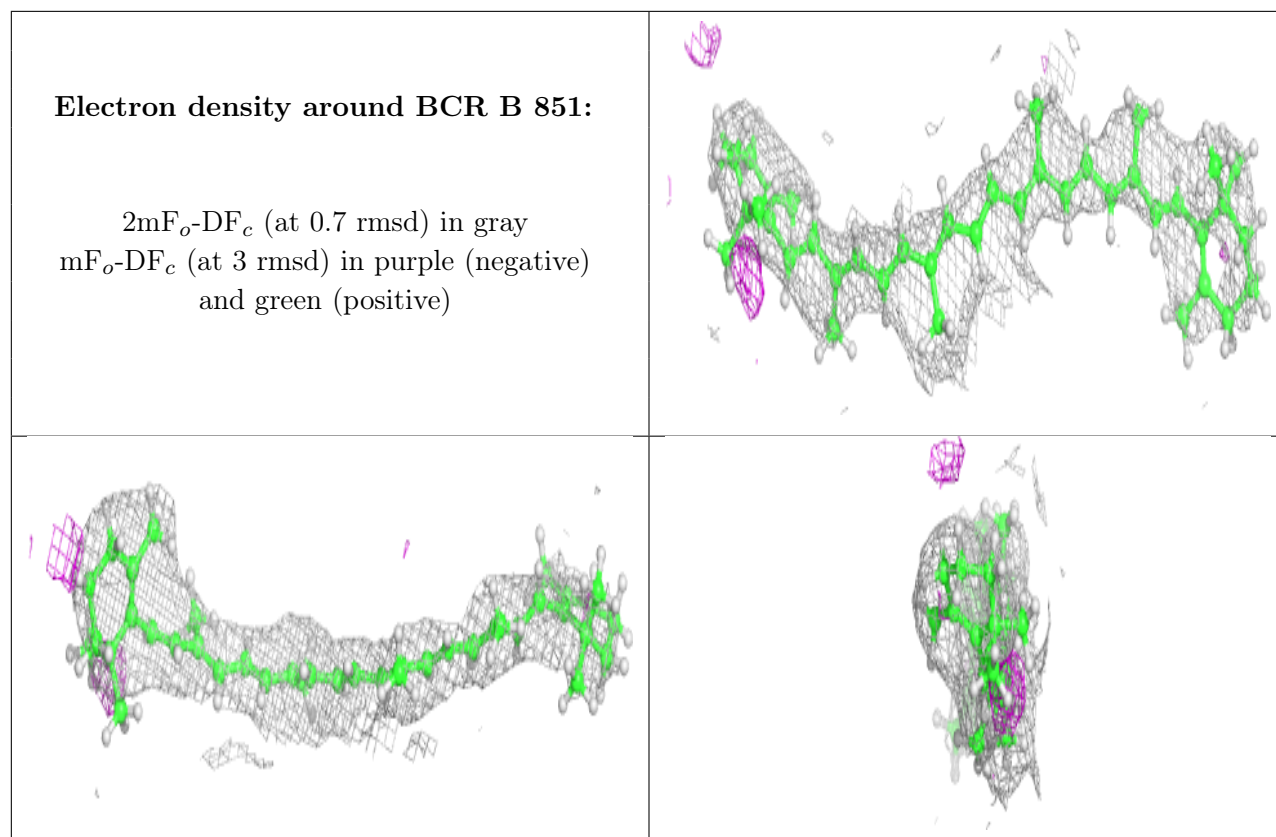




Electron density around CLA J 101:

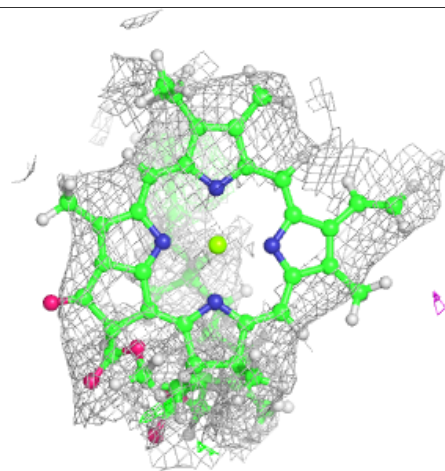
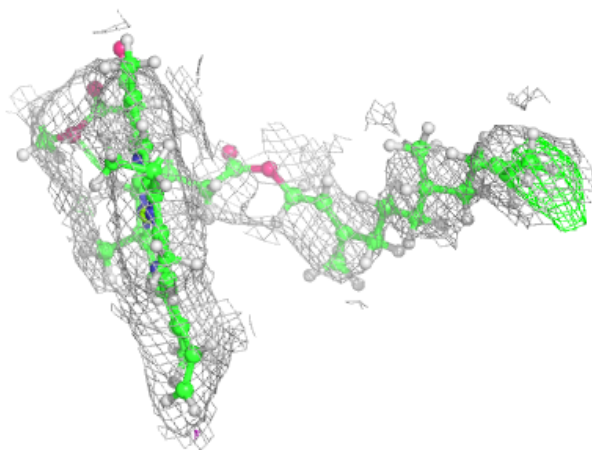
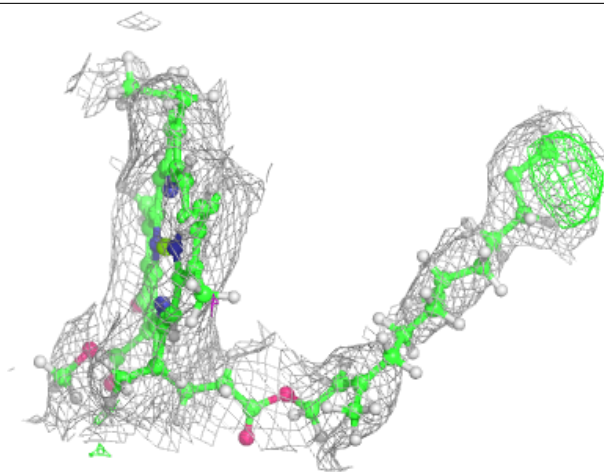
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





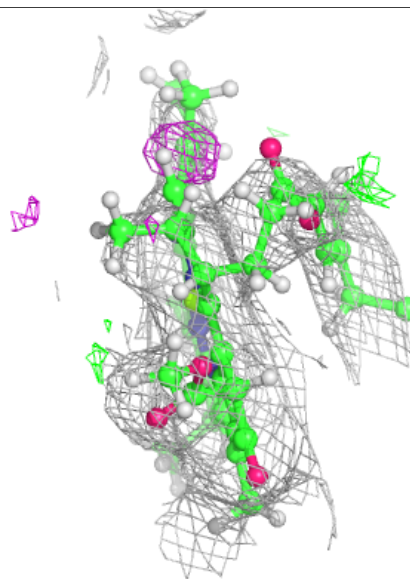
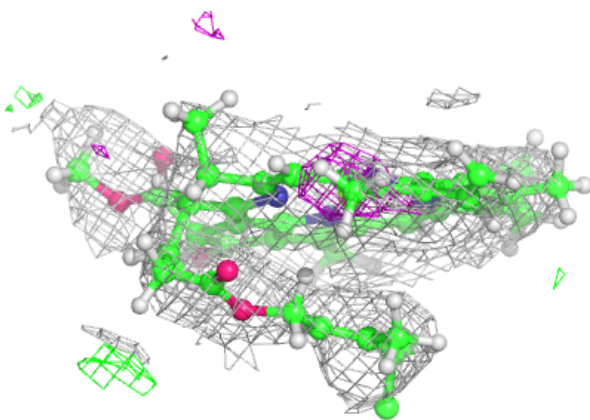
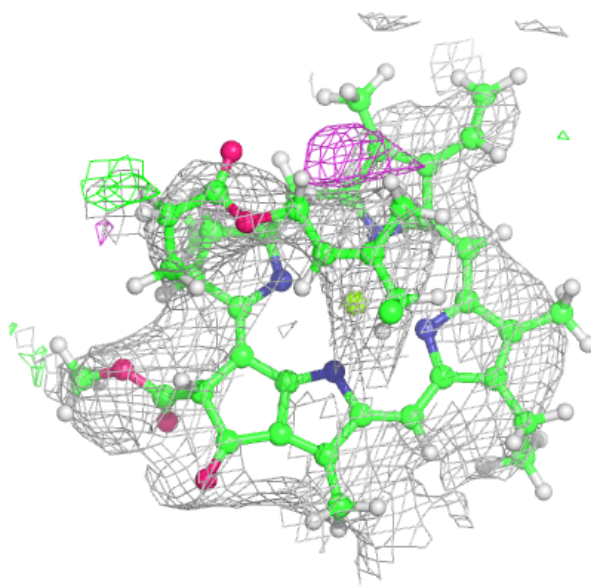
Electron density around CLA A 805:

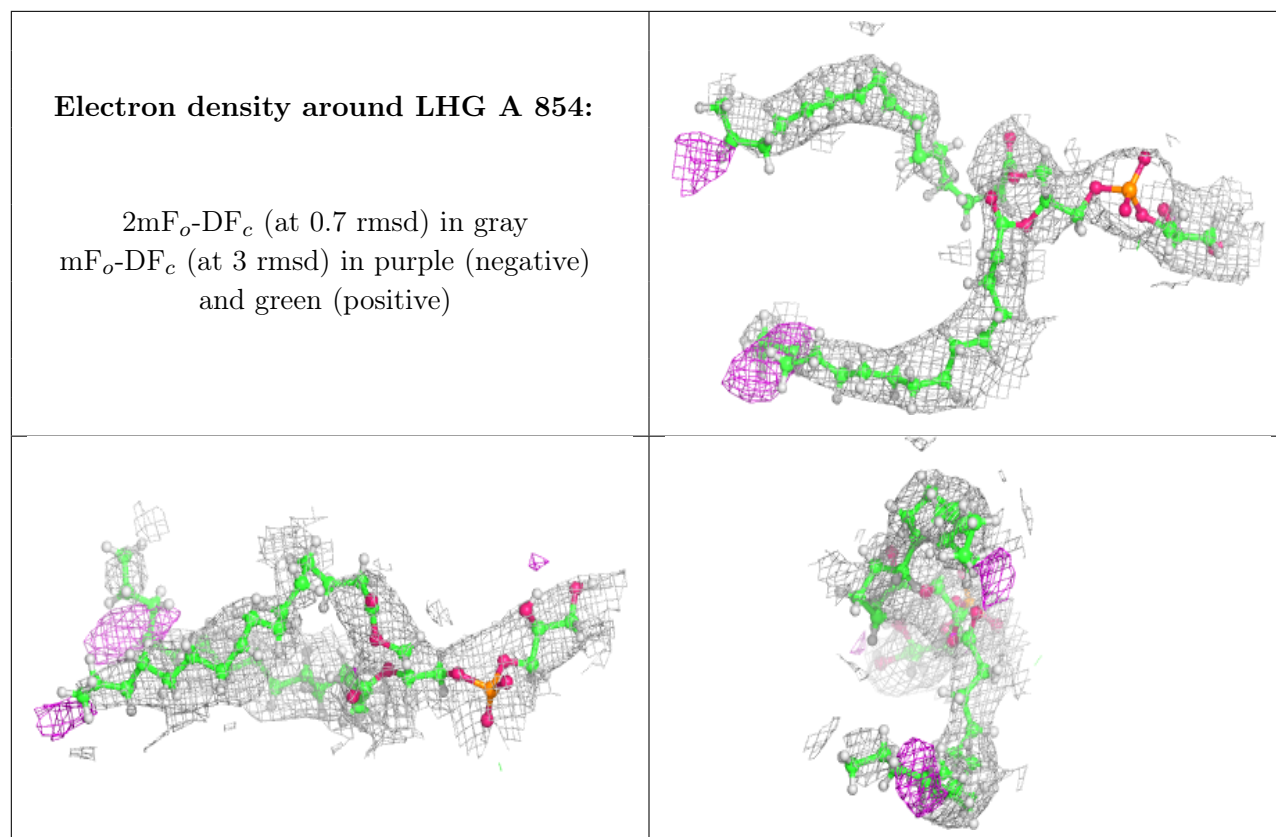
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 824:

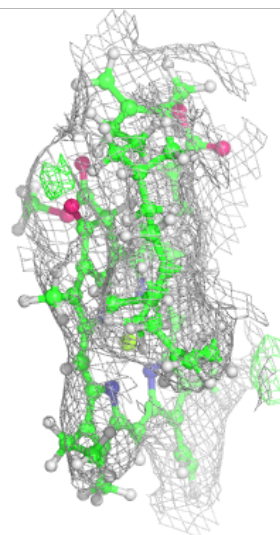
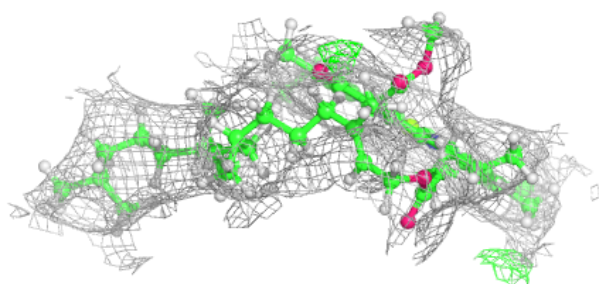
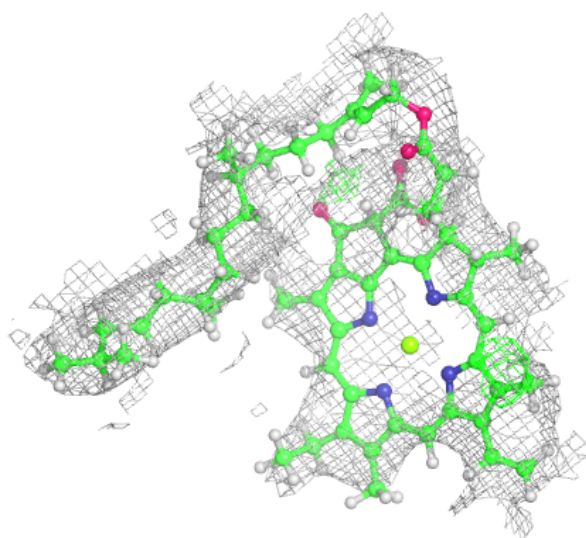
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





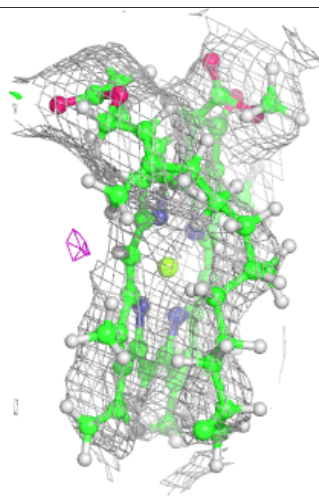
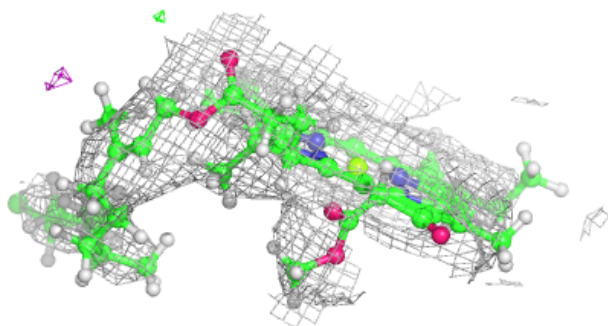
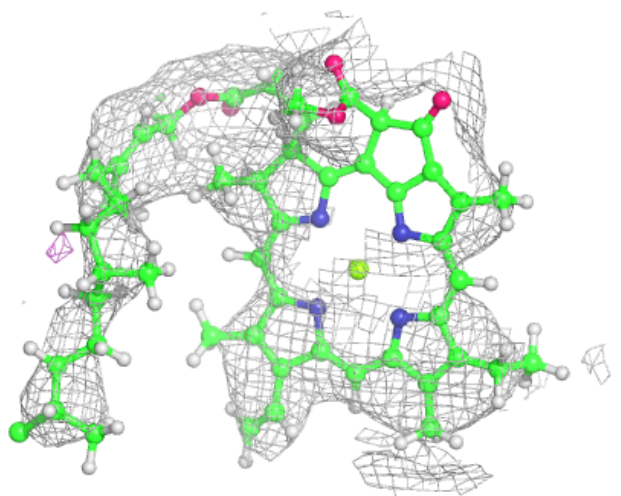
Electron density around CLA A 826:

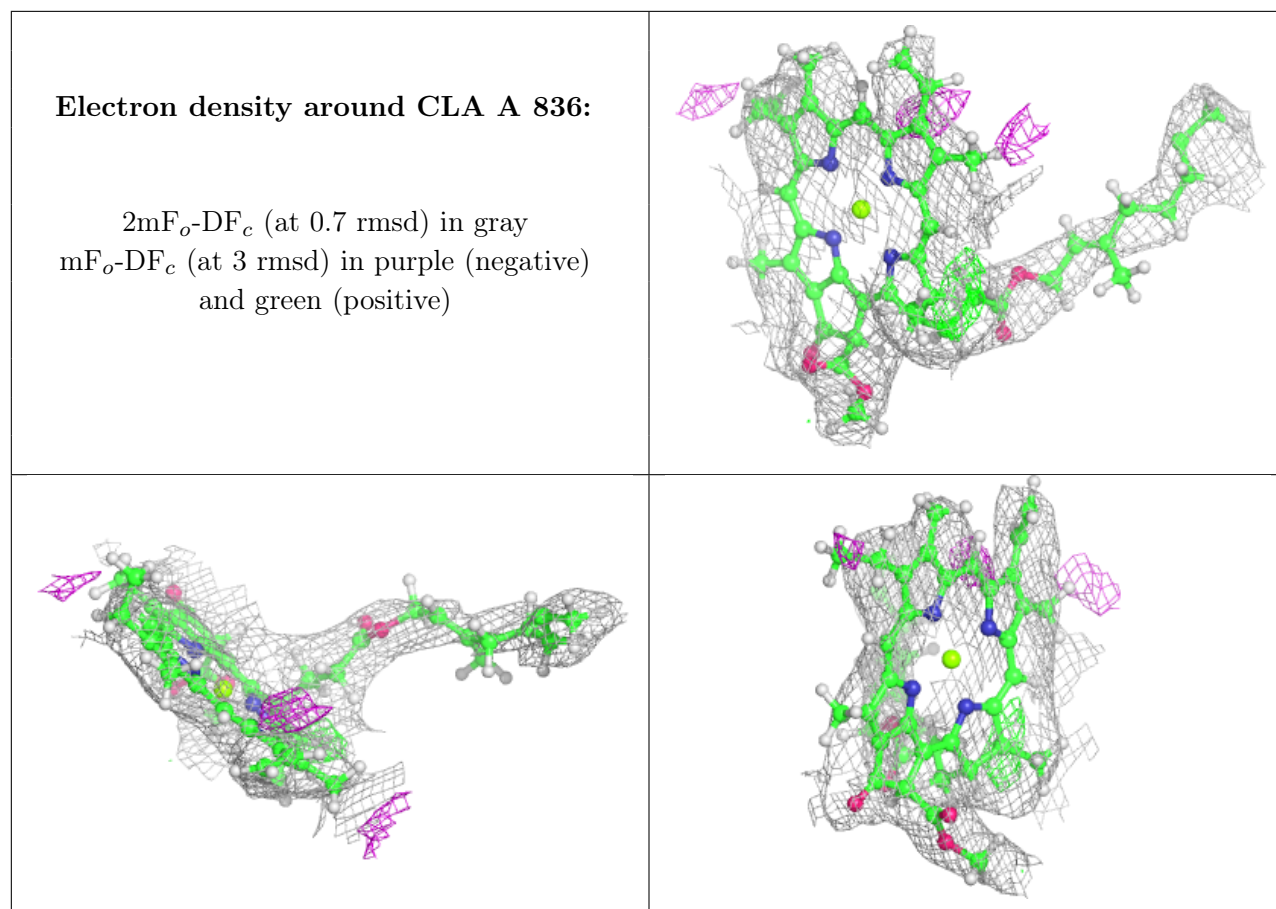
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 814:

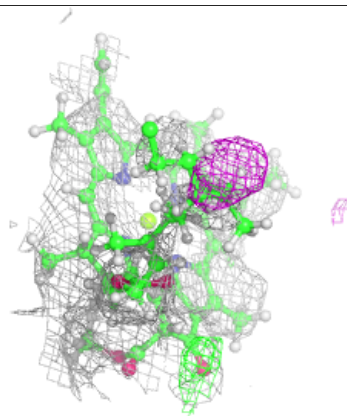
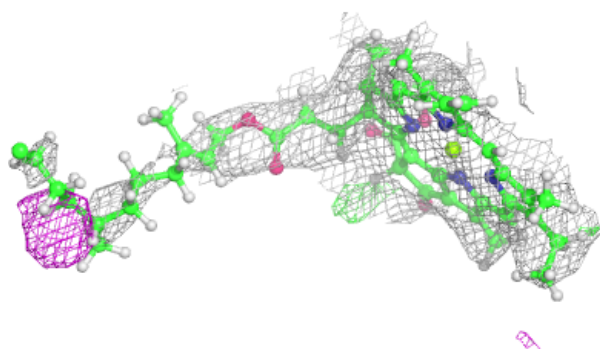
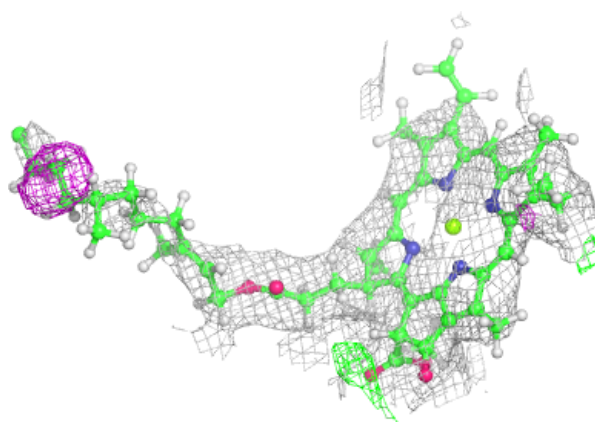
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



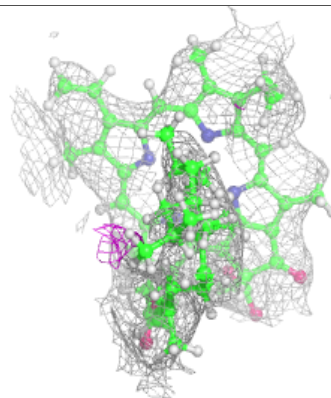
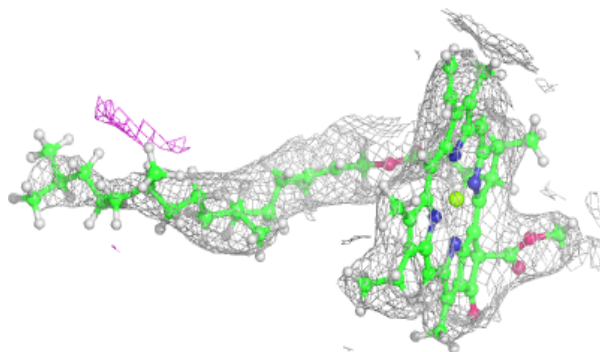
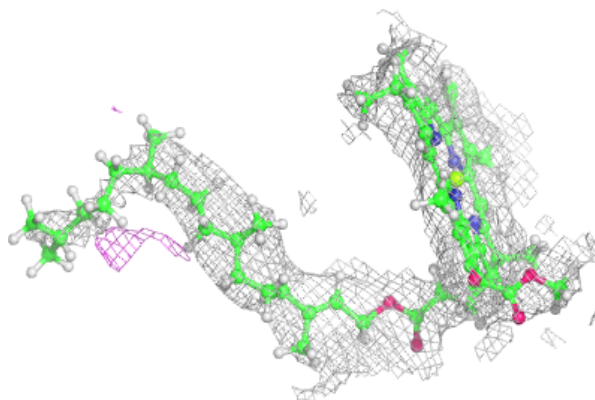


Electron density around CLA B 833:

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

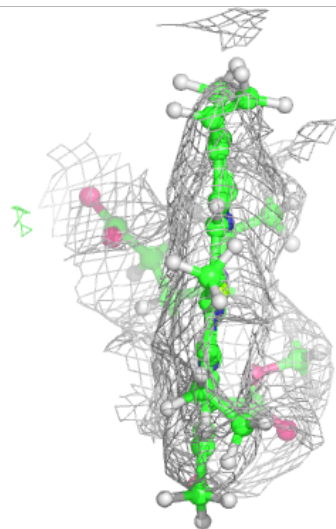
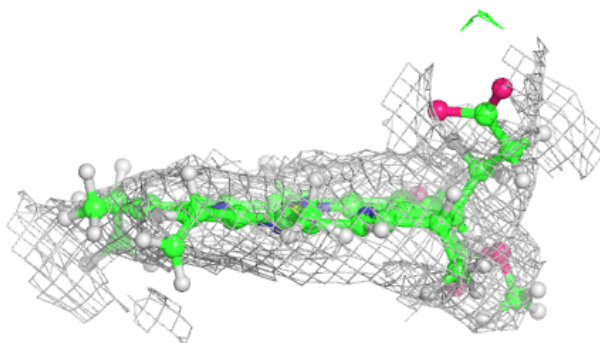
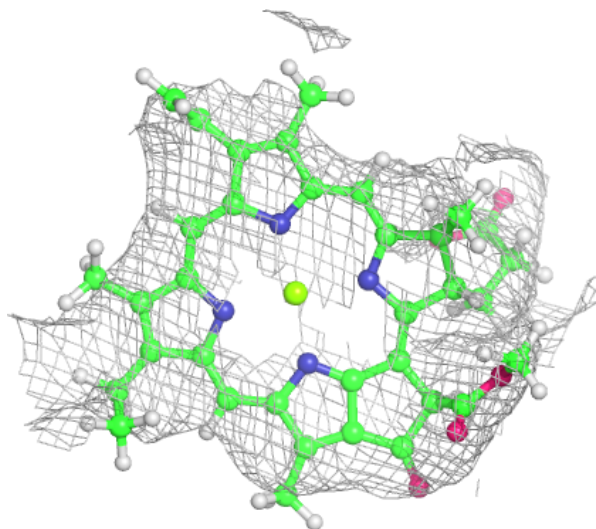
**Electron density around CLA A 831:**

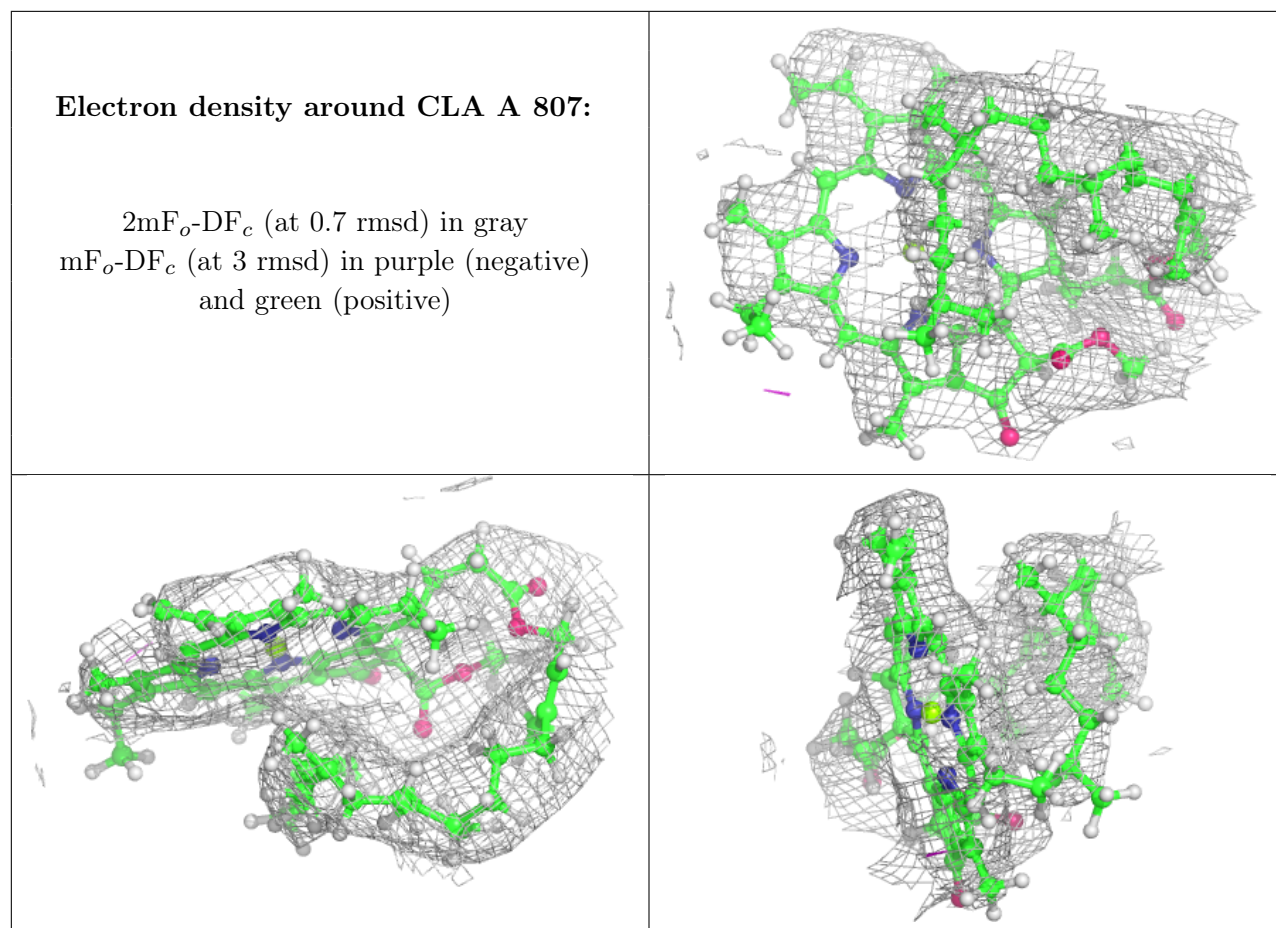
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 811:

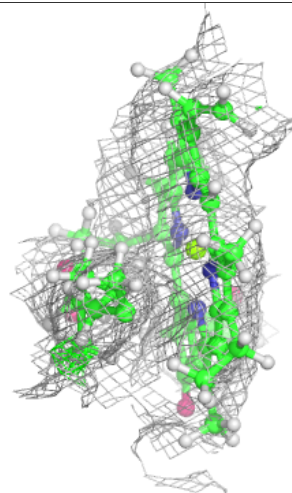
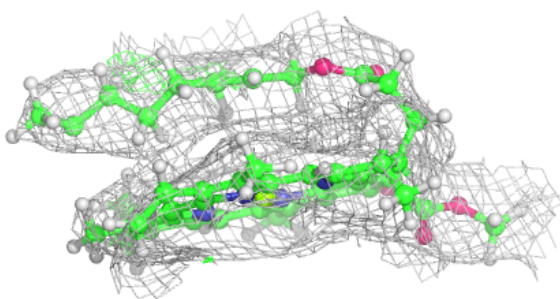
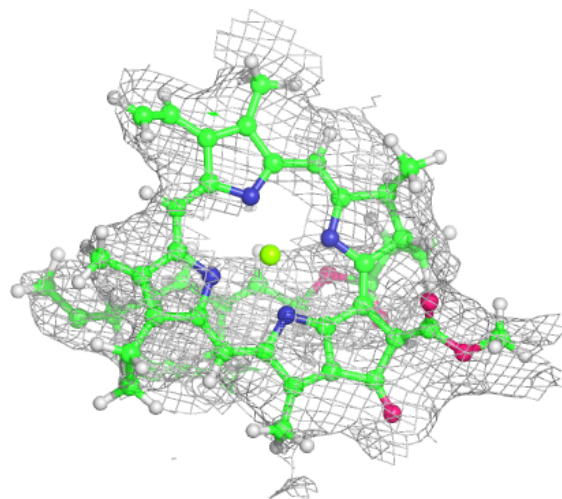
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





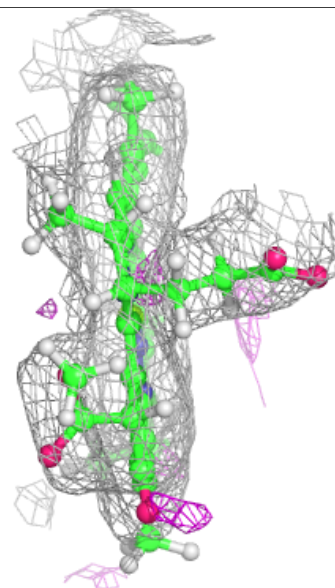
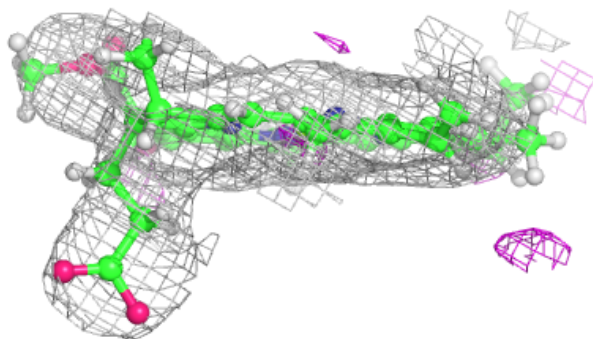
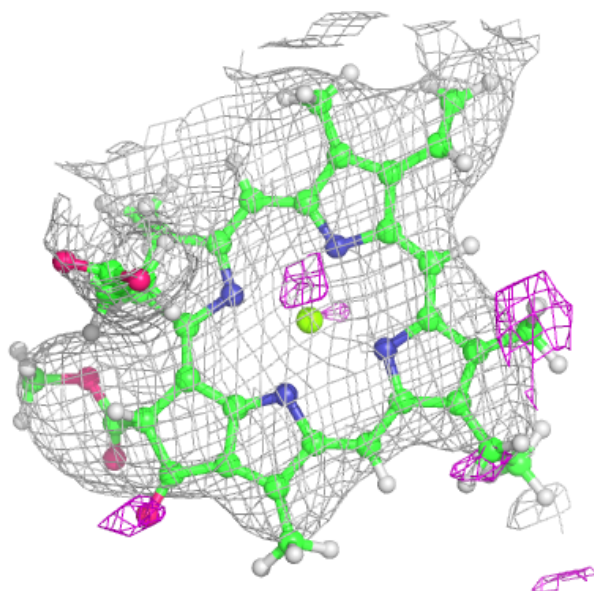
Electron density around CLA A 813:

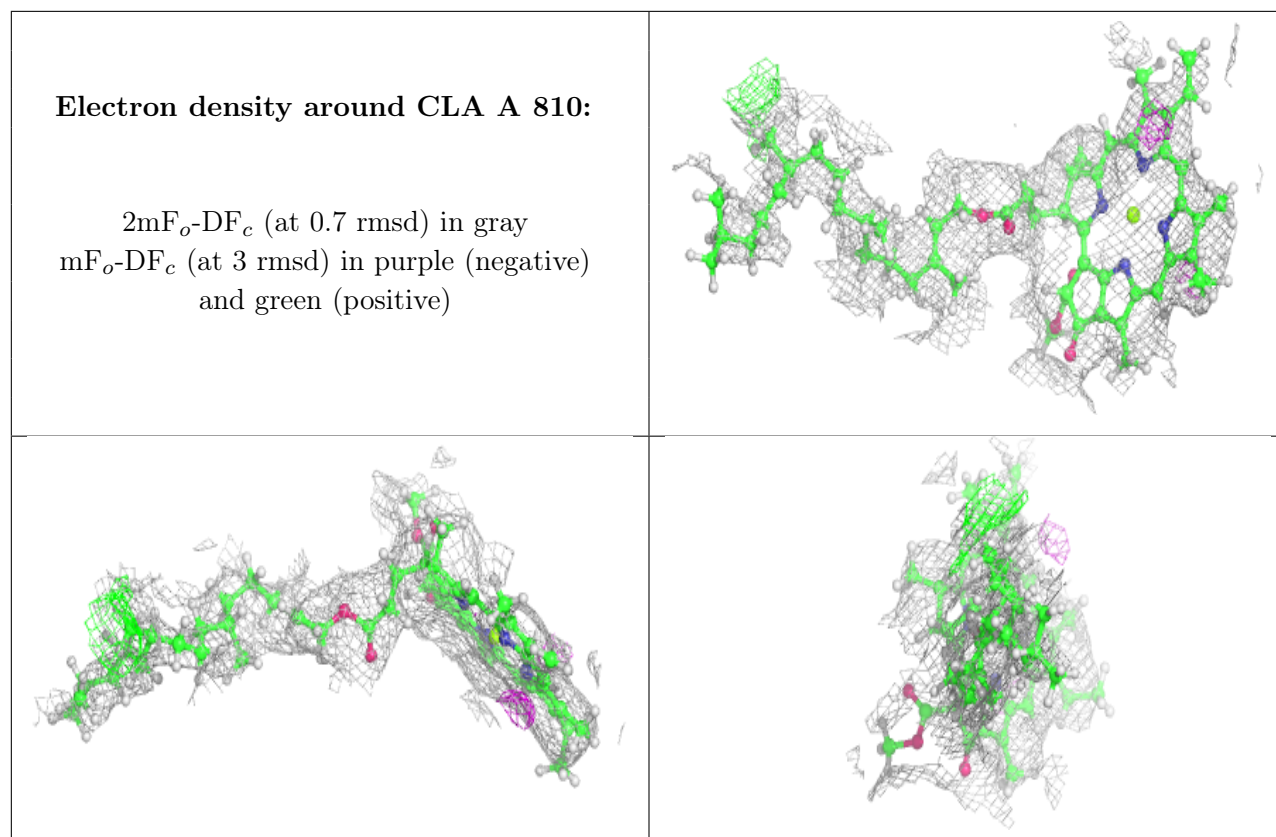
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 811:

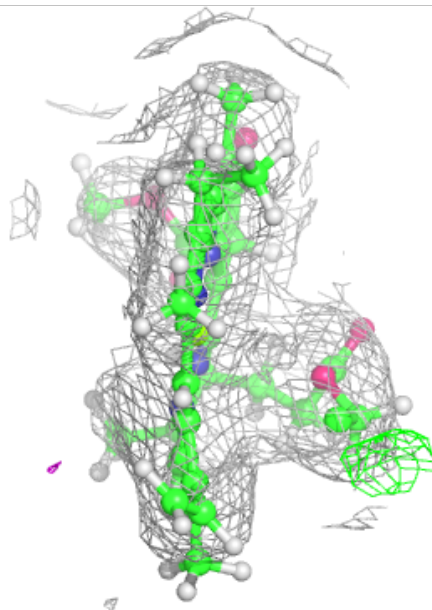
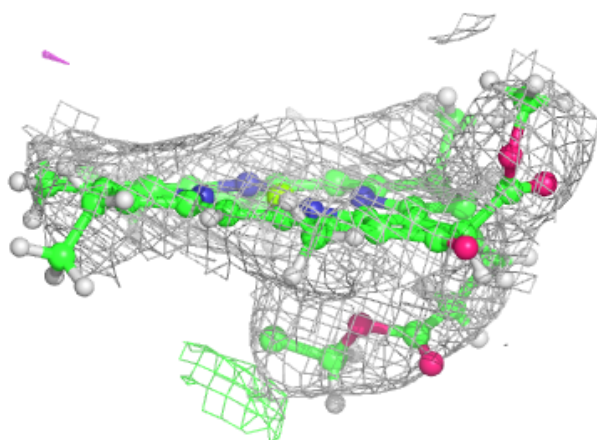
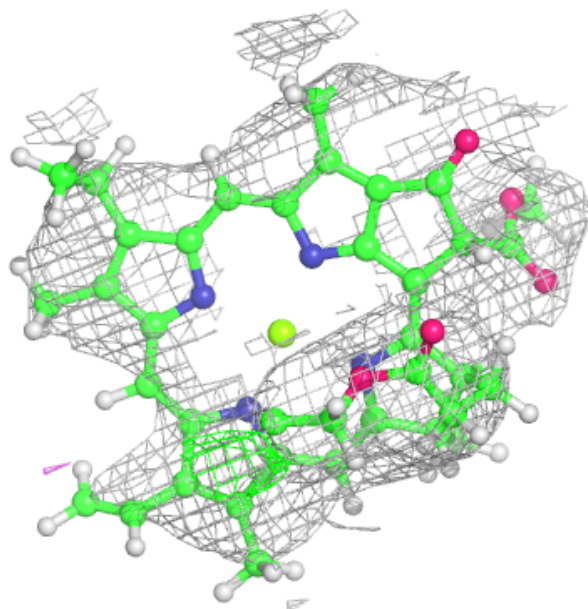
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

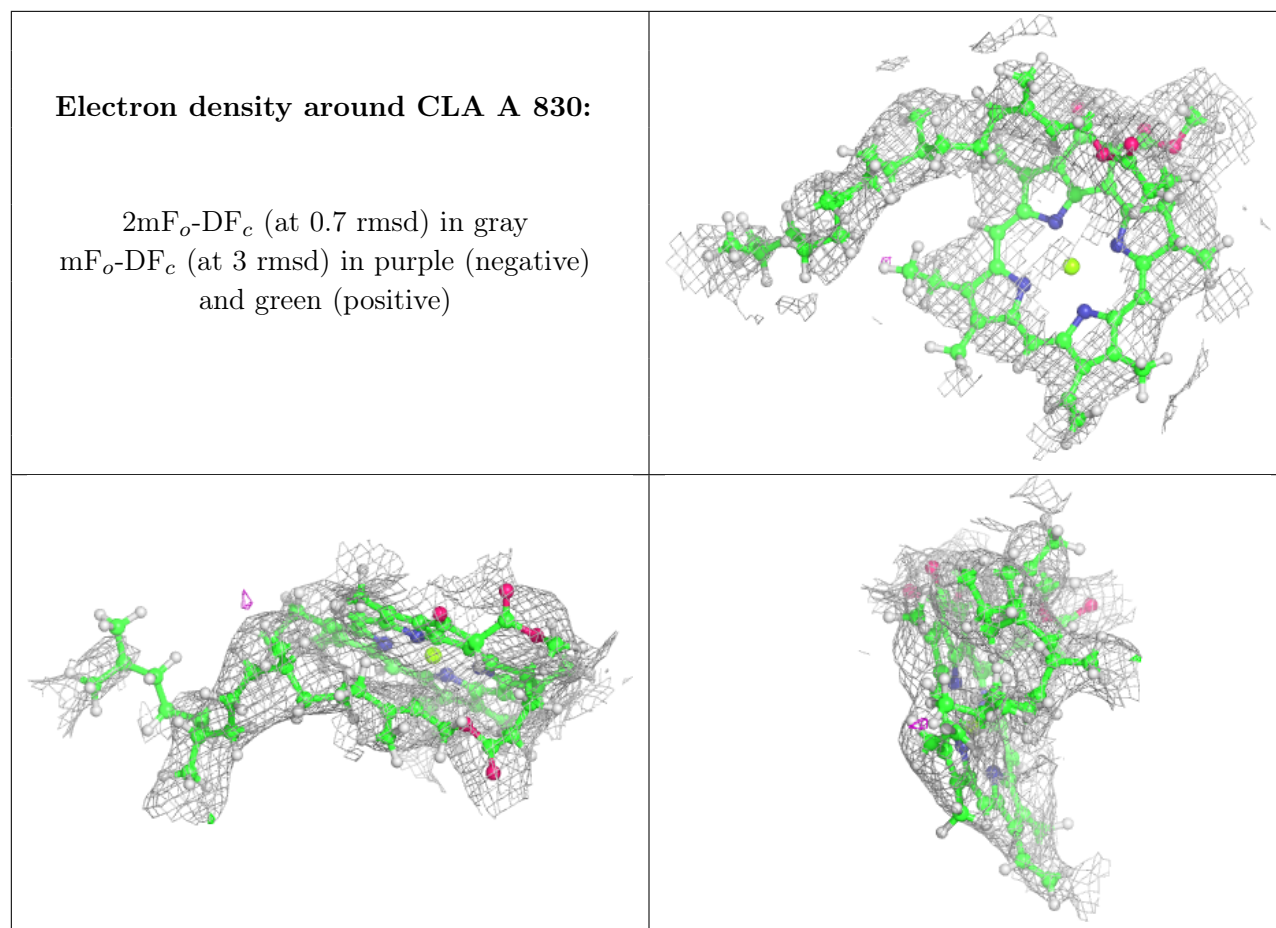




Electron density around CLA B 820:

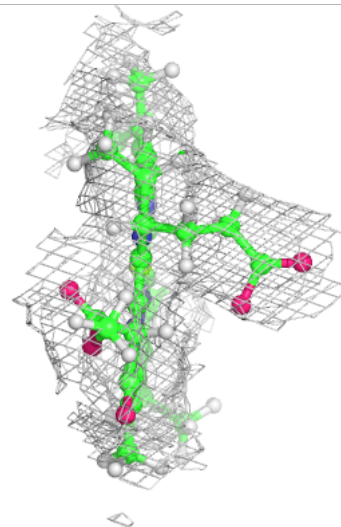
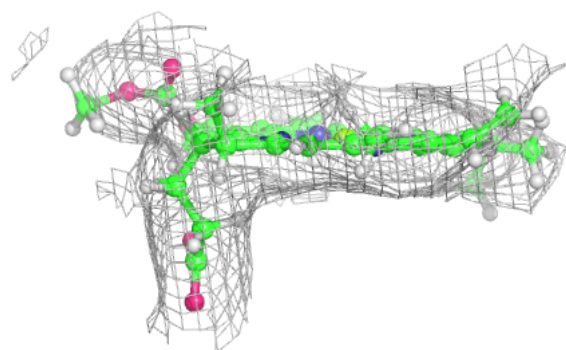
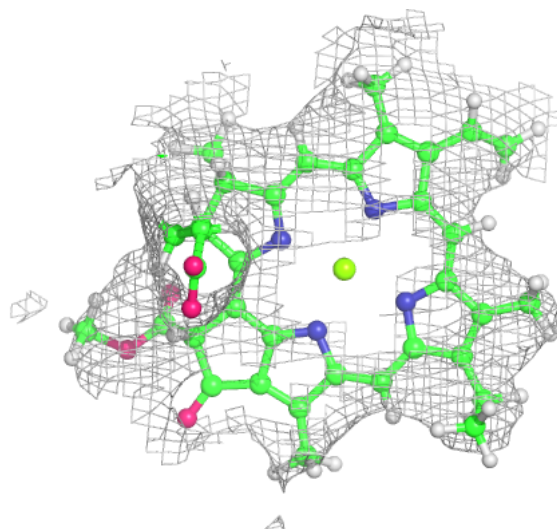
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





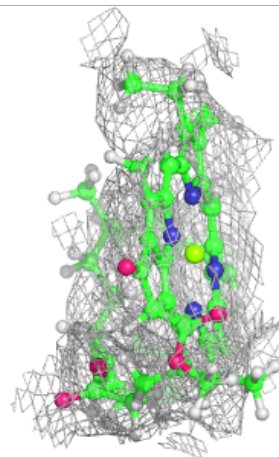
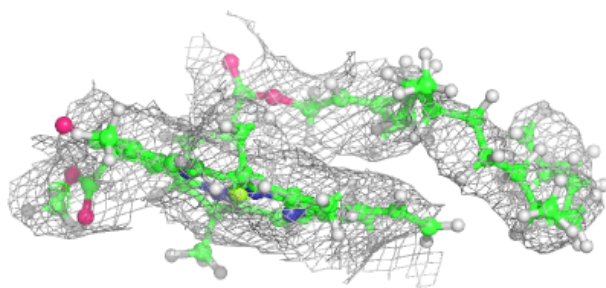
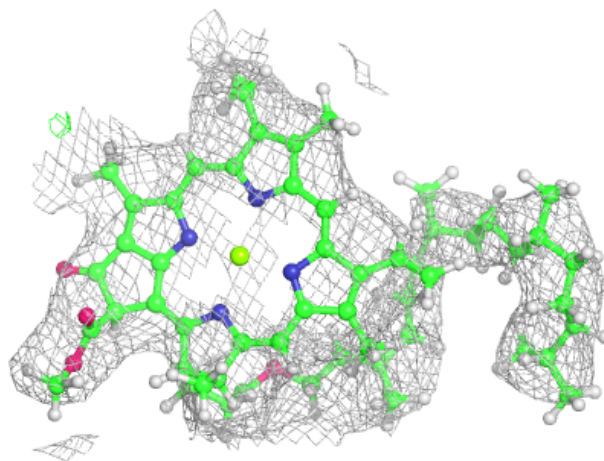
Electron density around CLA B 812:

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



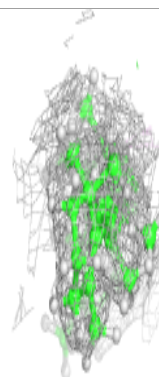
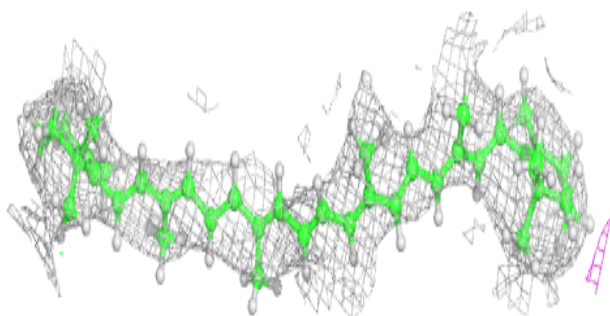
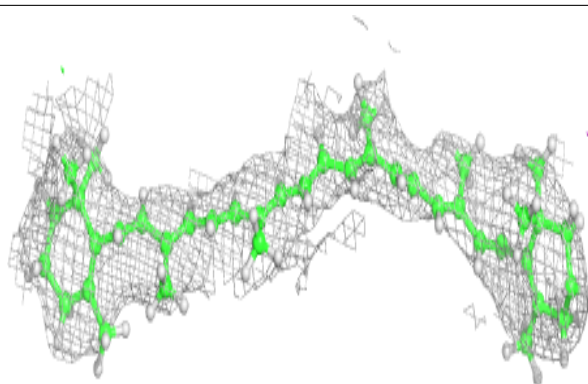
Electron density around CLA A 820:

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

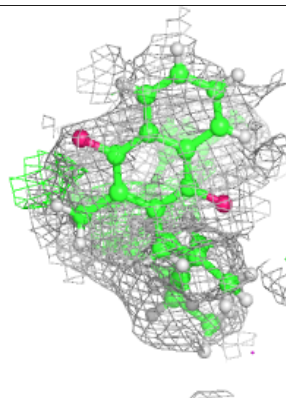
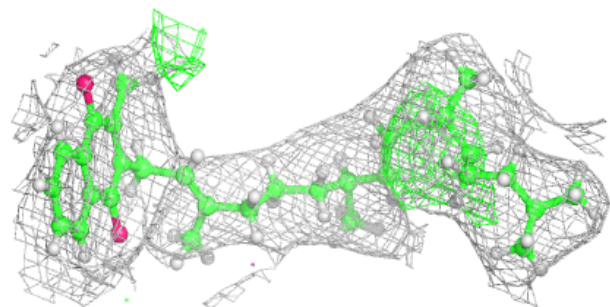
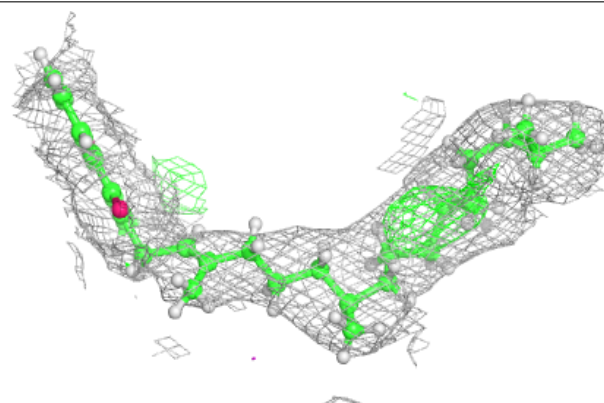


Electron density around BCR J 104:

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

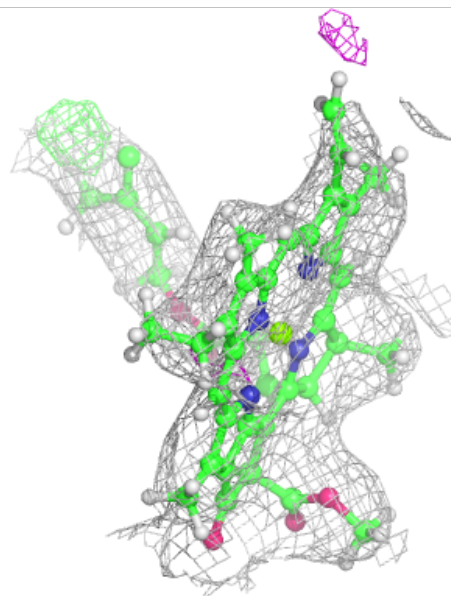
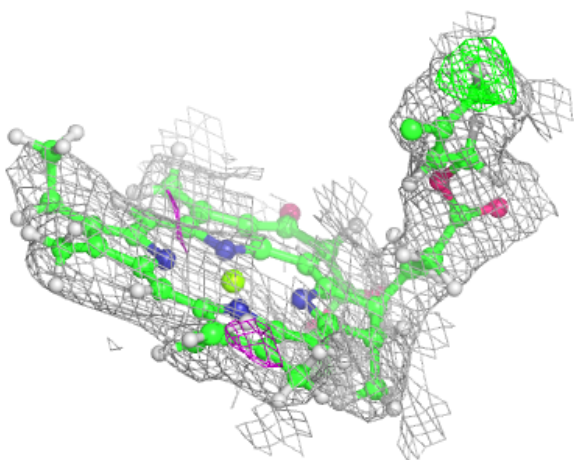
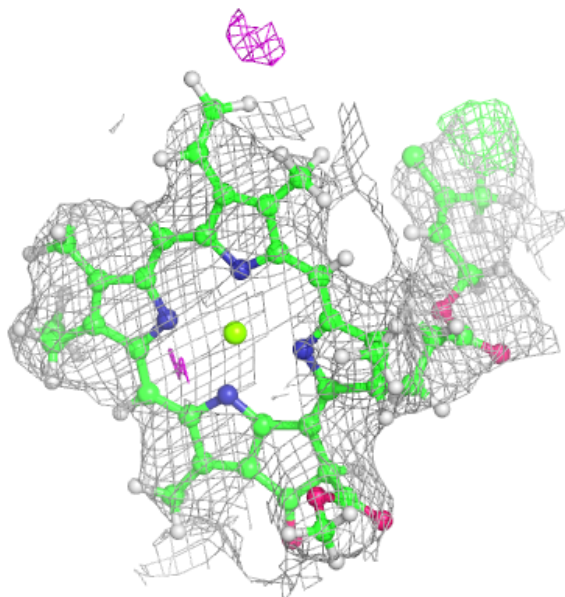
**Electron density around PQN B 842:**

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



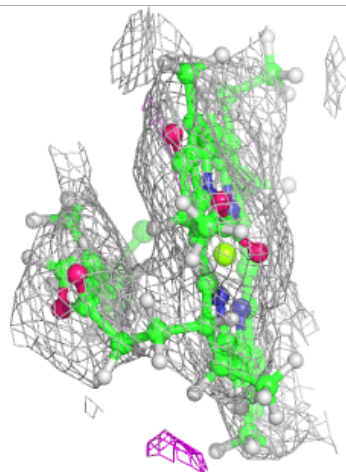
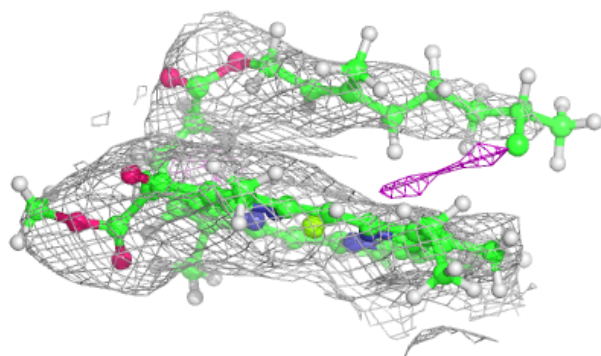
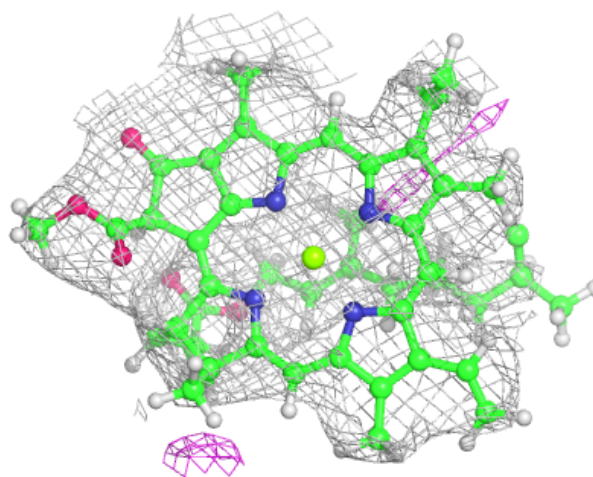
Electron density around CLA A 832:

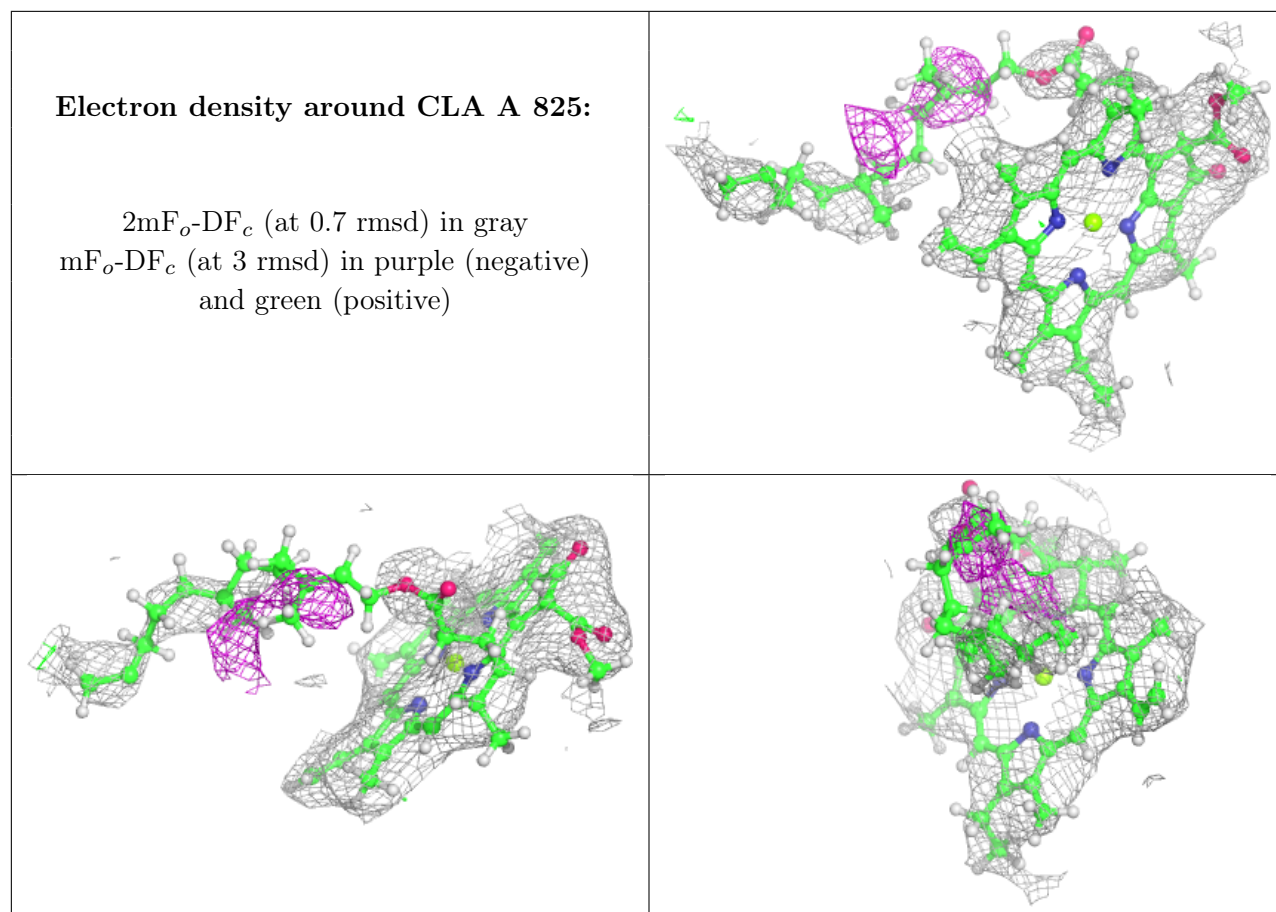
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

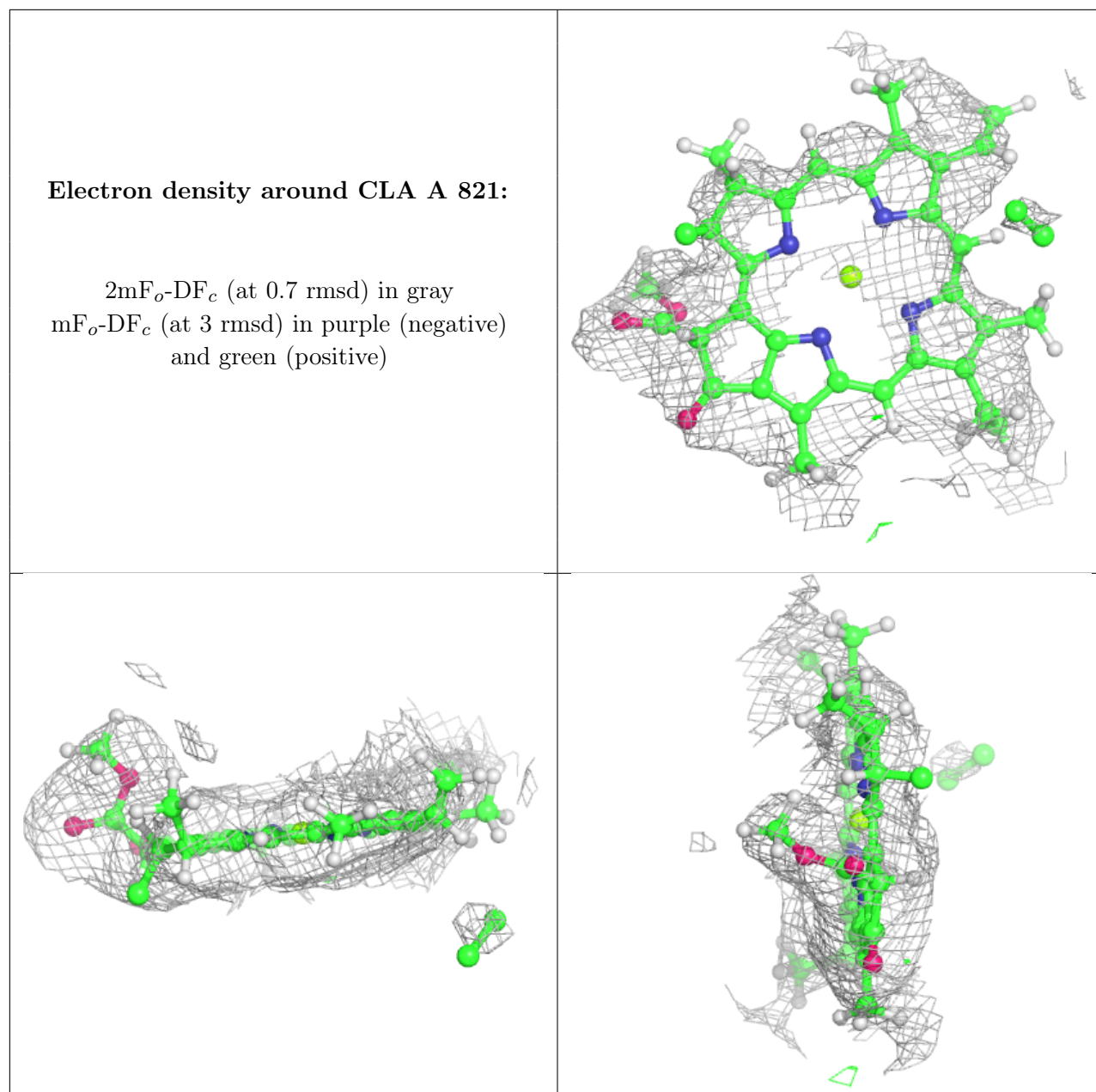


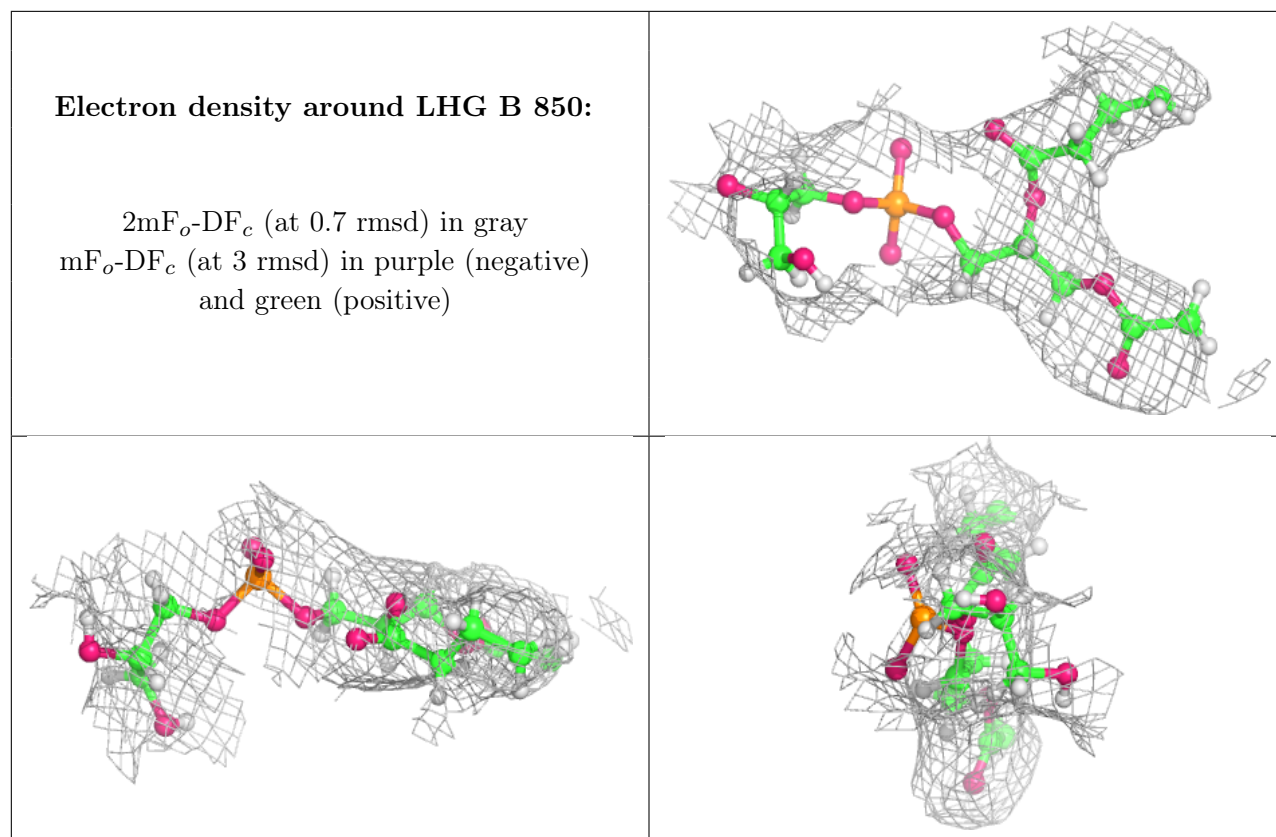
Electron density around CLA B 822:

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



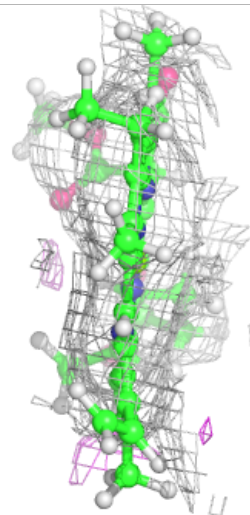
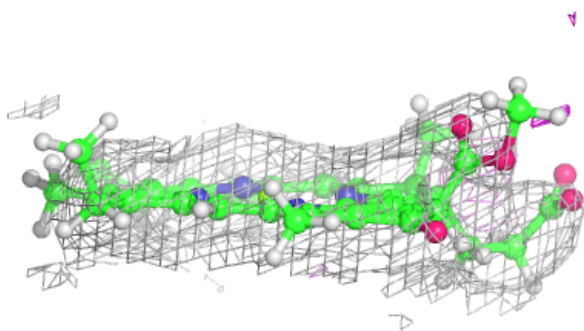
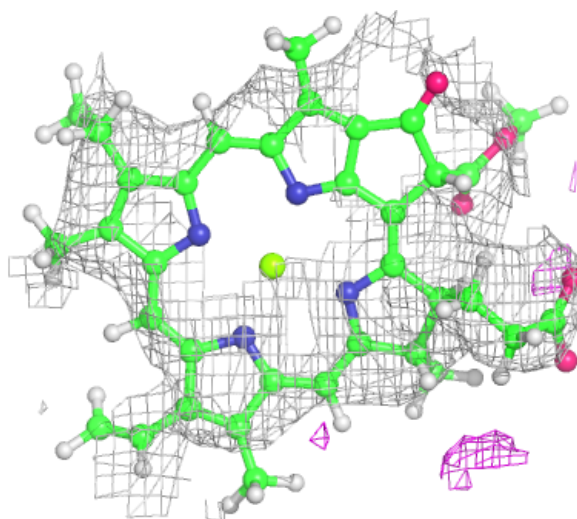


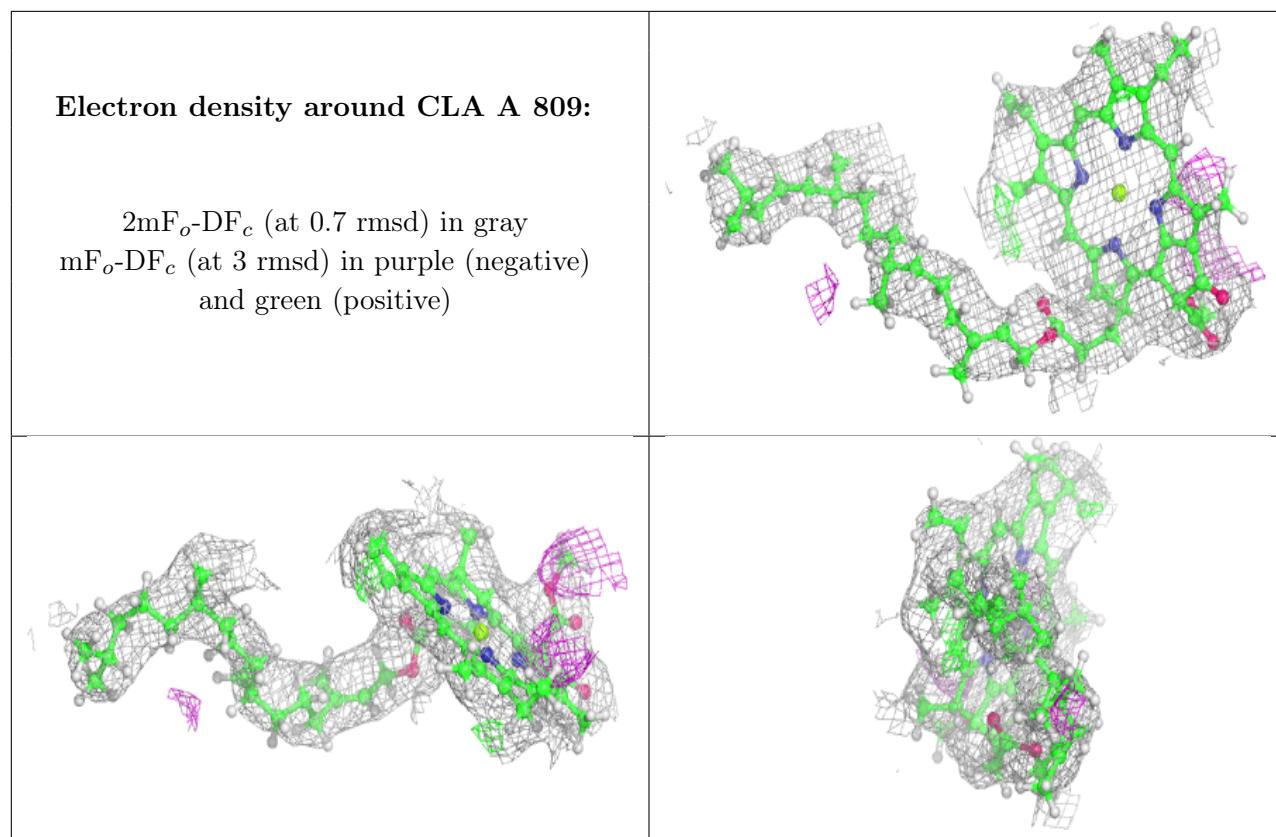




Electron density around CLA F 202:

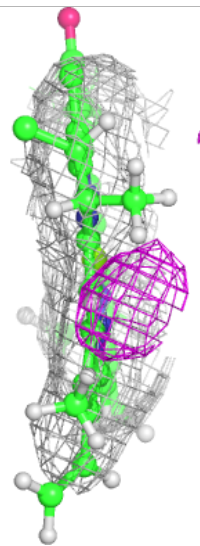
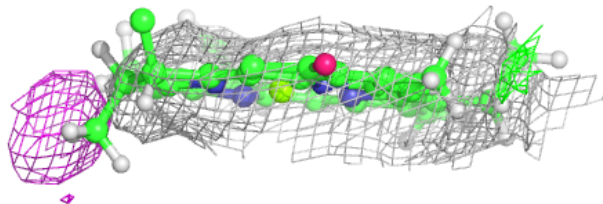
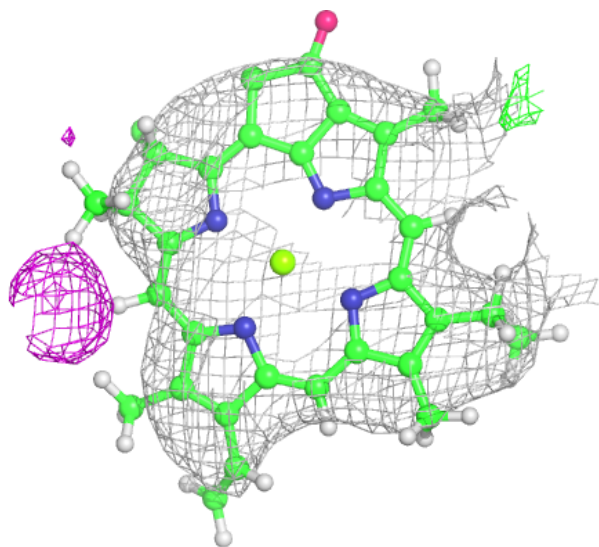
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





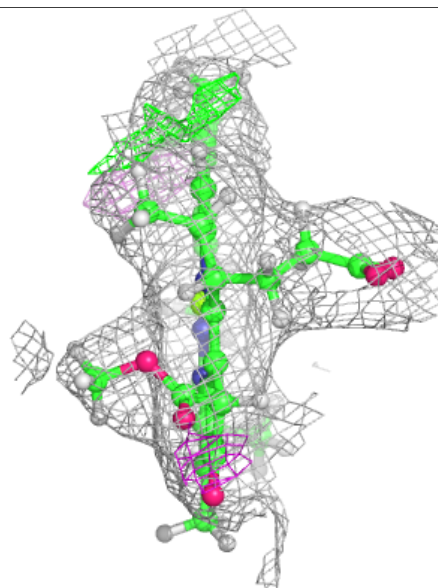
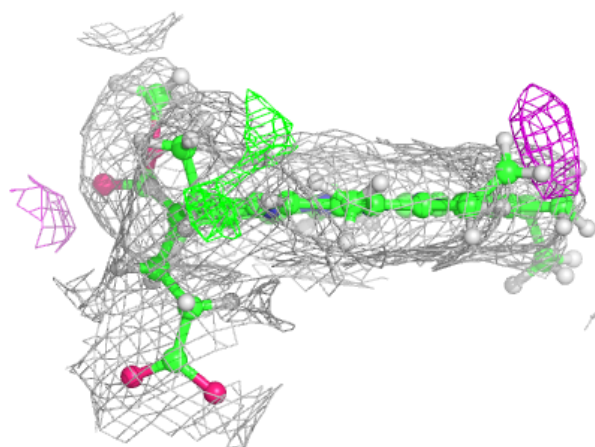
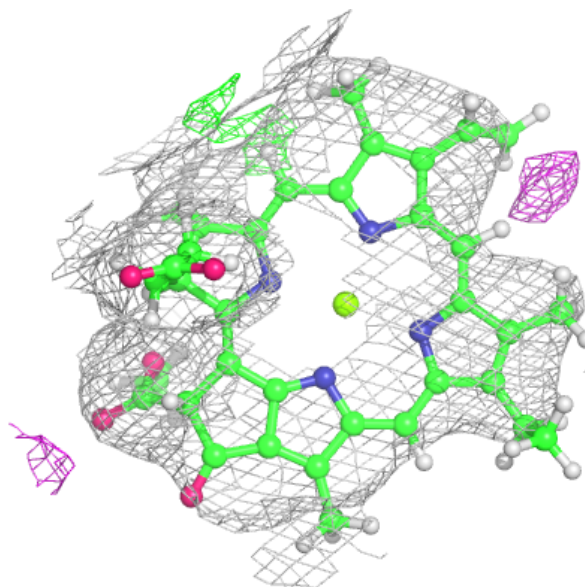
Electron density around CLA J 102:

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



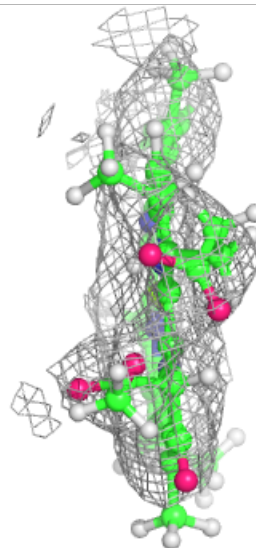
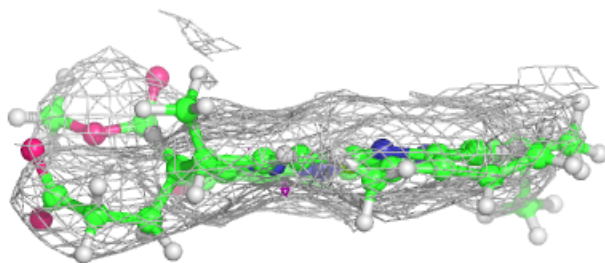
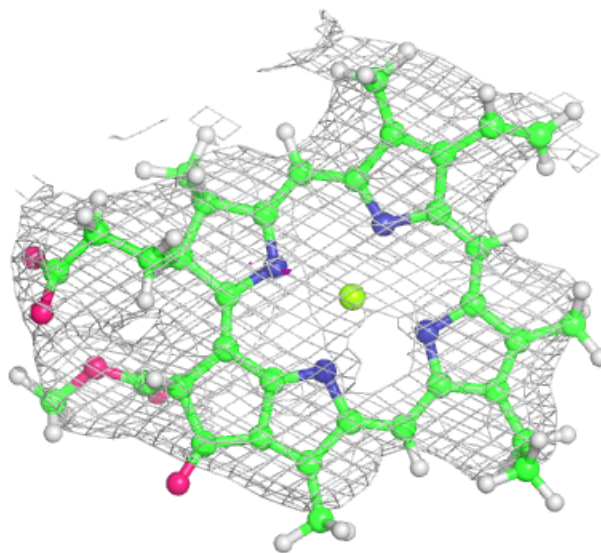
Electron density around CLA B 834:

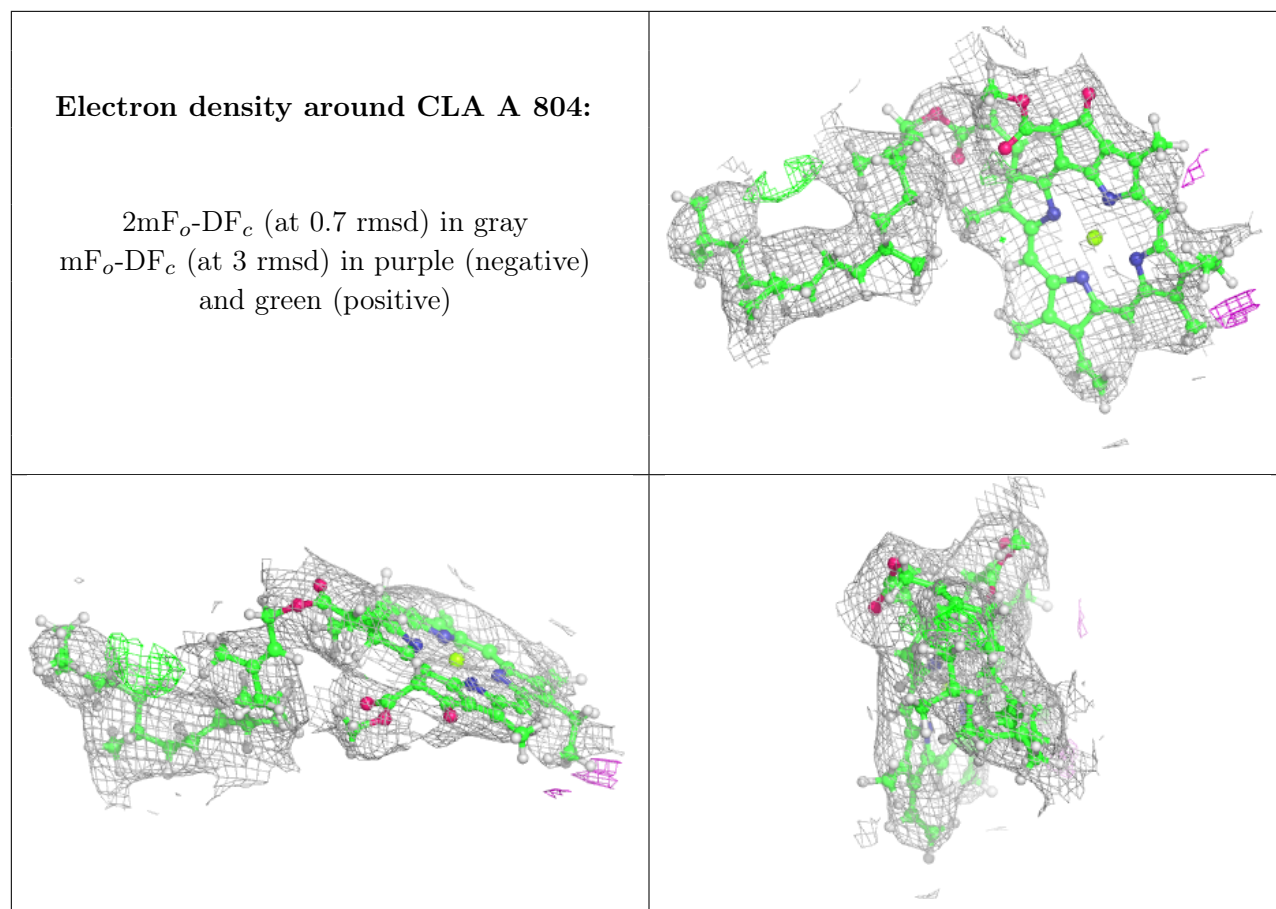
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

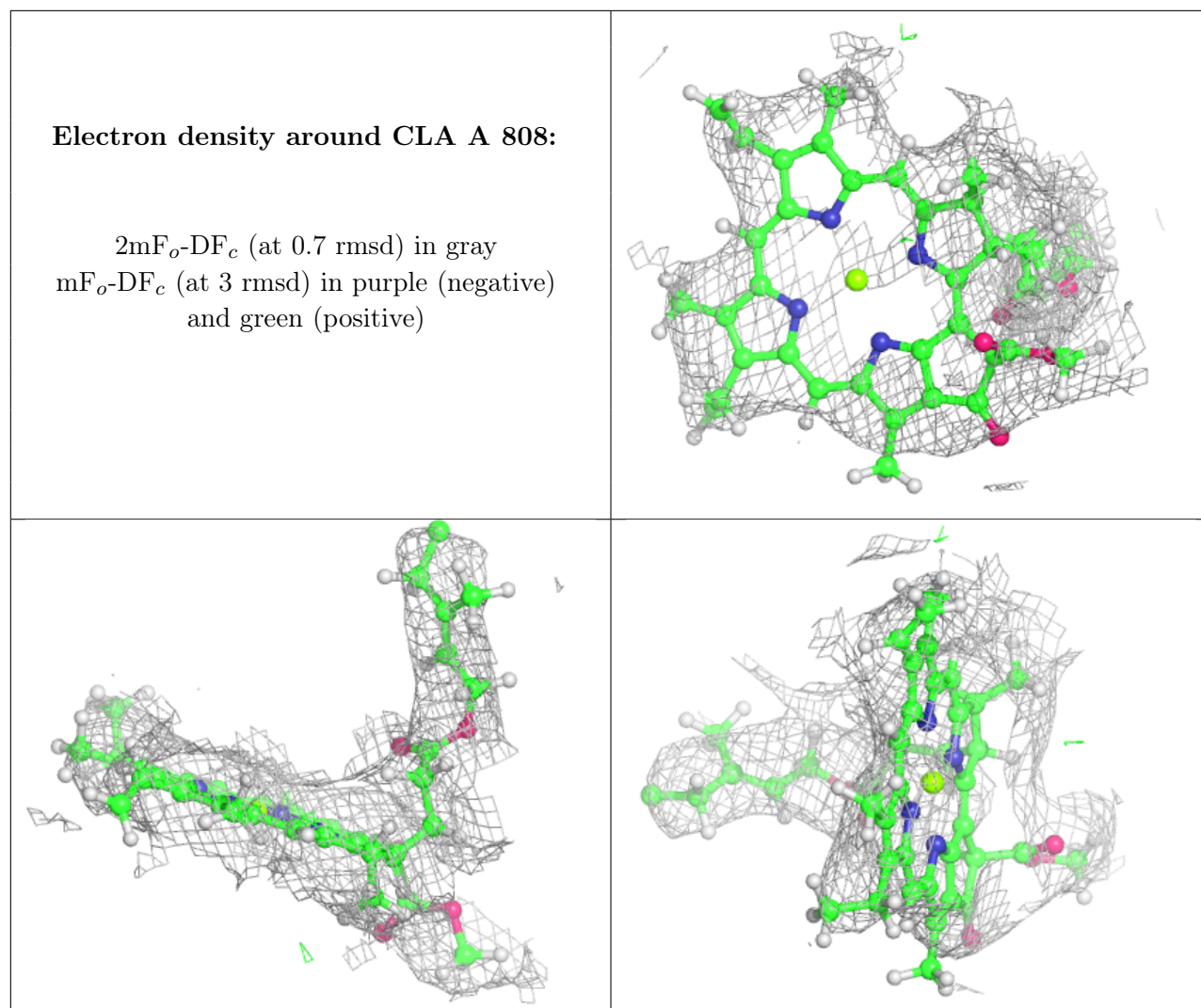


Electron density around CLA B 836:

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

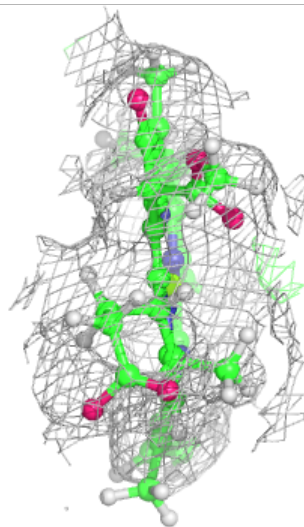
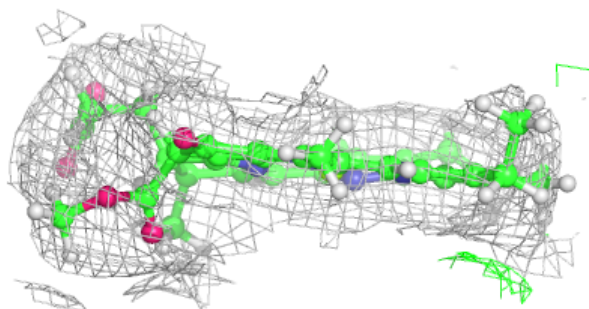
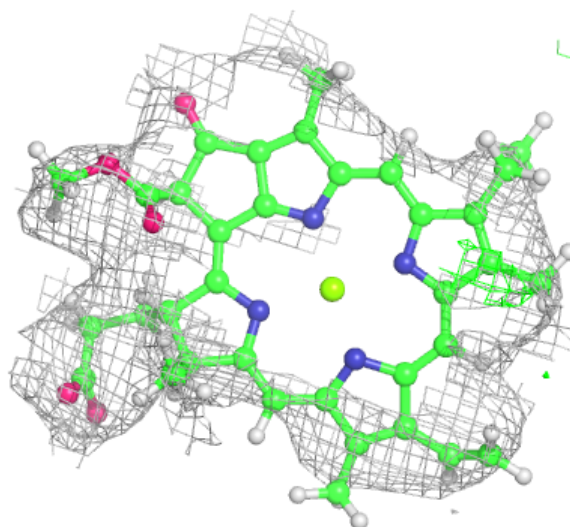


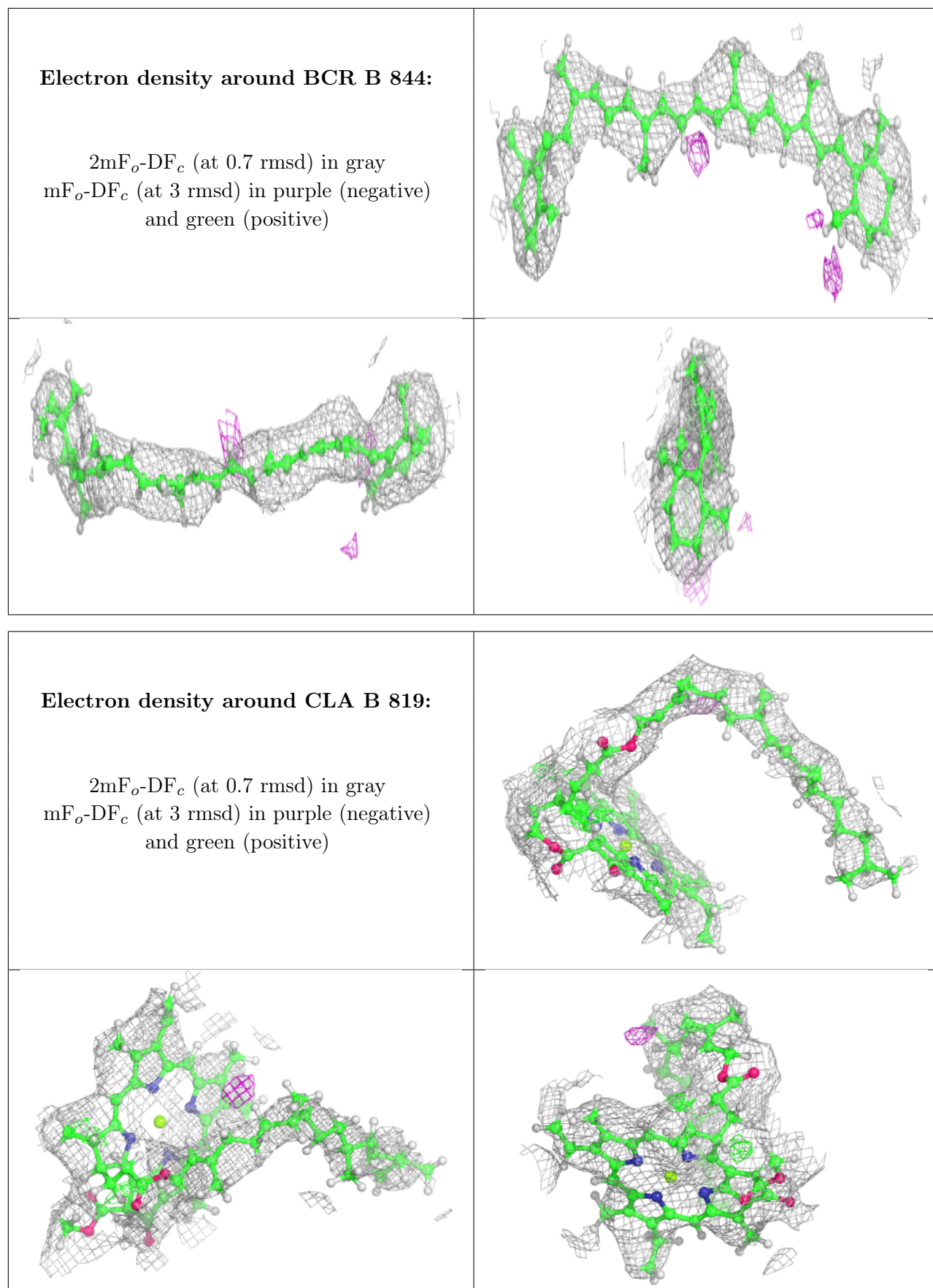




Electron density around CLA X 1701:

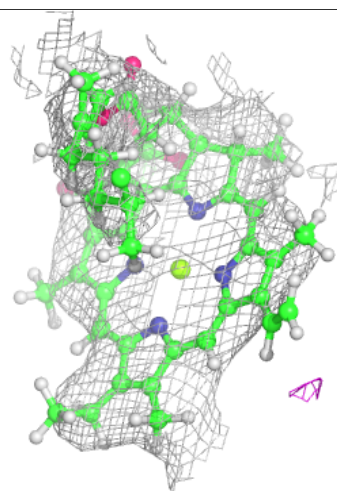
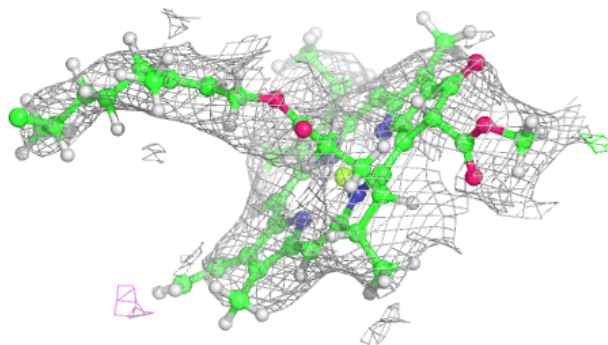
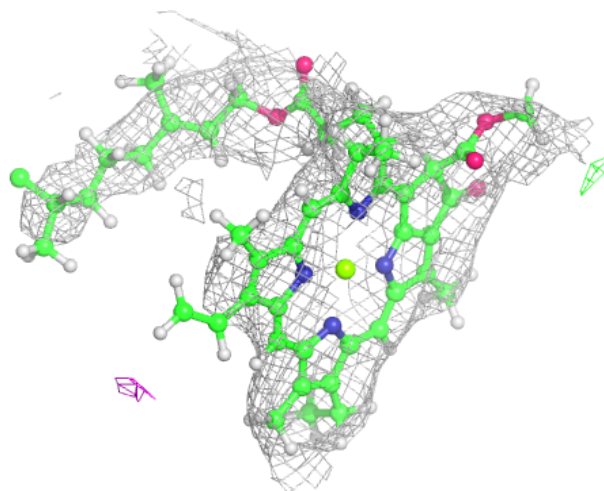
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





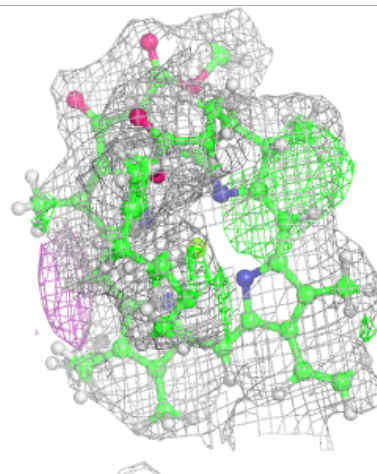
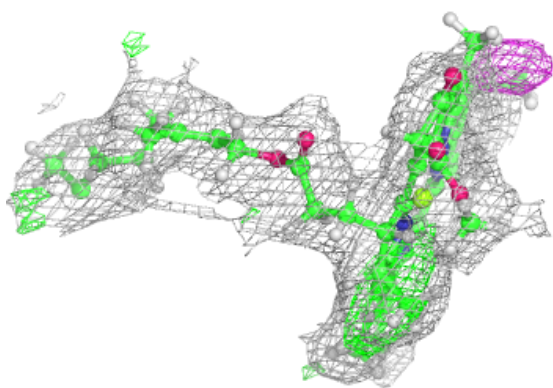
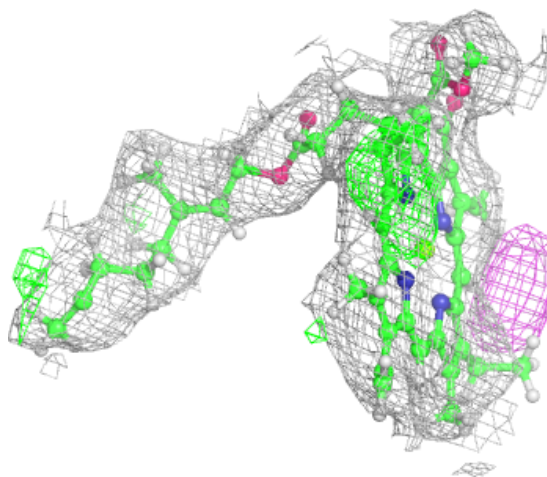
Electron density around CLA B 816:

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



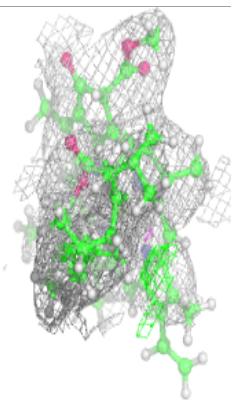
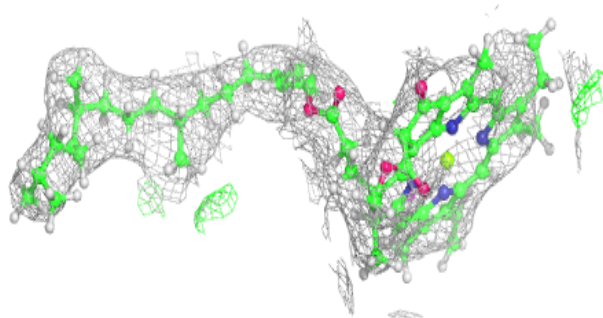
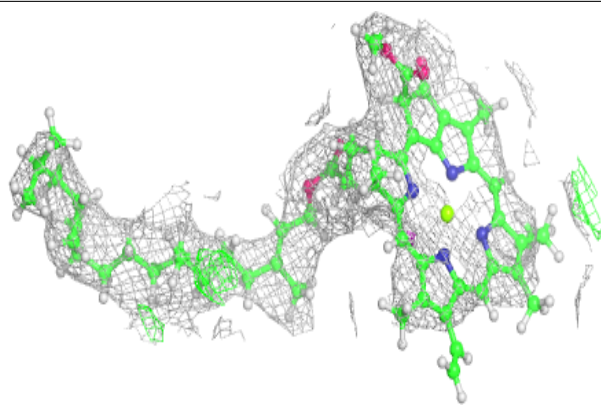
Electron density around CLA B 804:

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

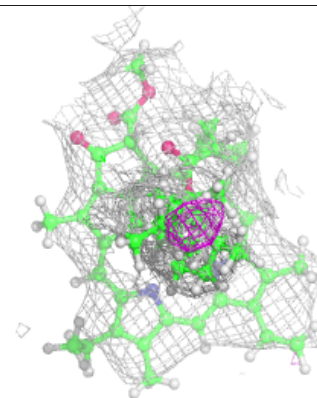
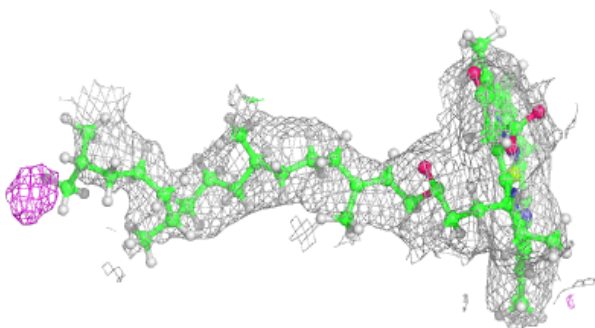
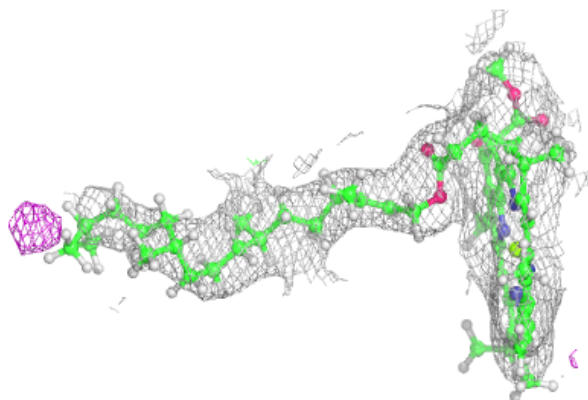


Electron density around CLA A 822:

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

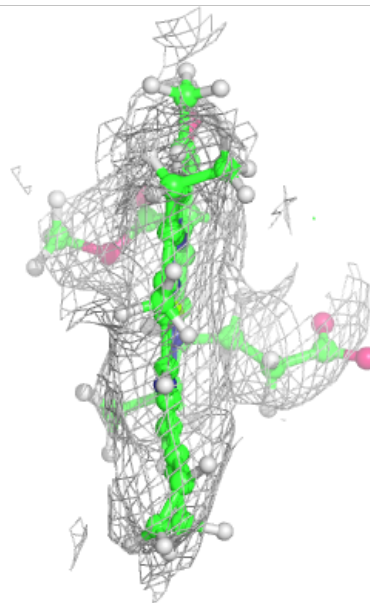
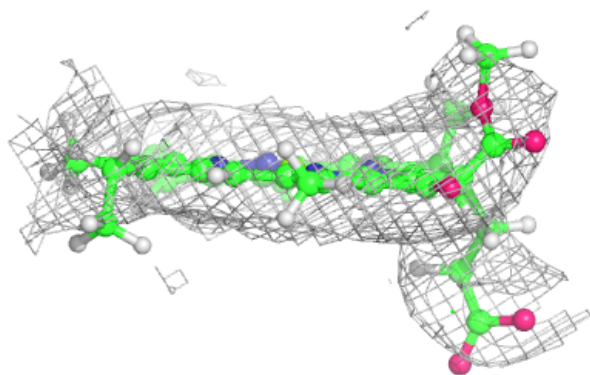
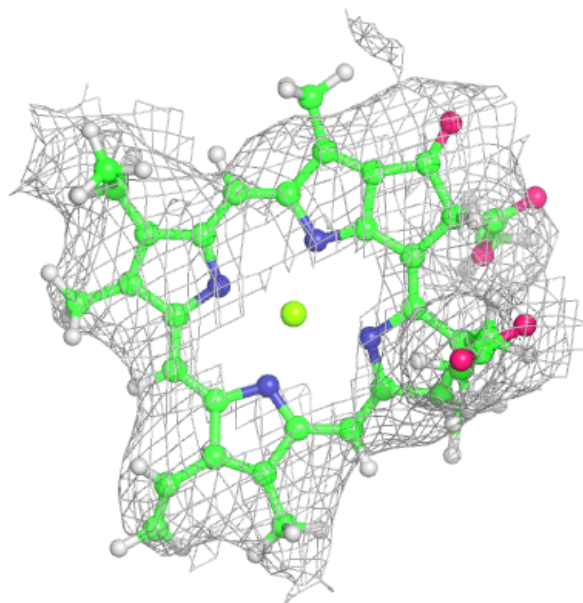
**Electron density around CLA A 829:**

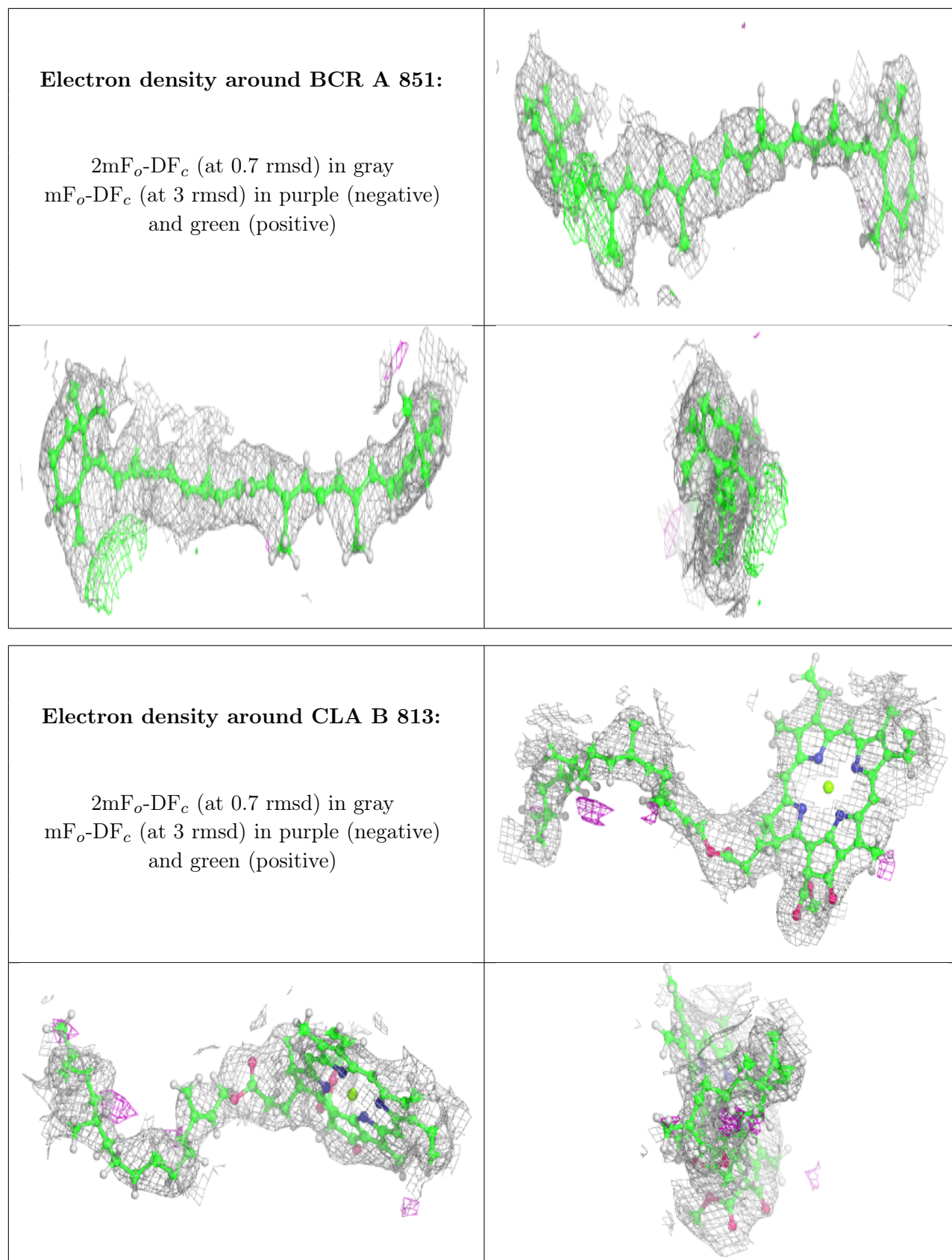
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 821:

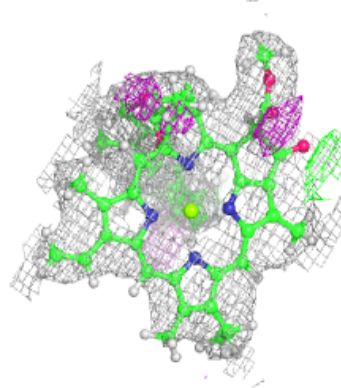
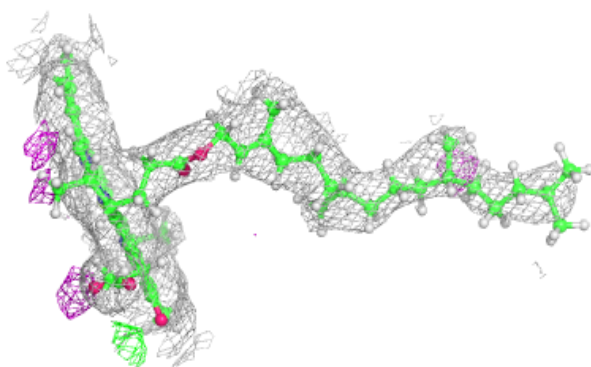
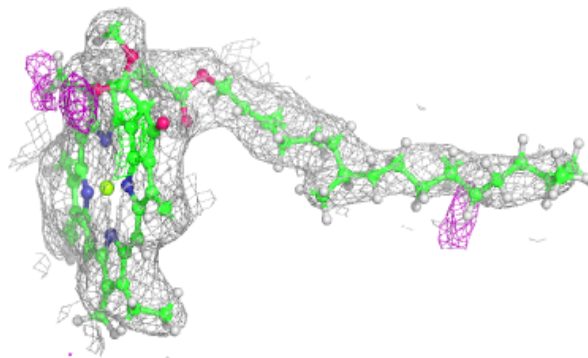
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



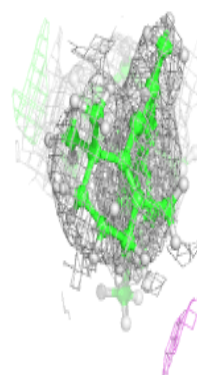
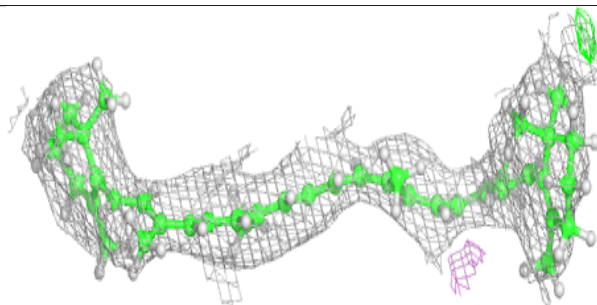
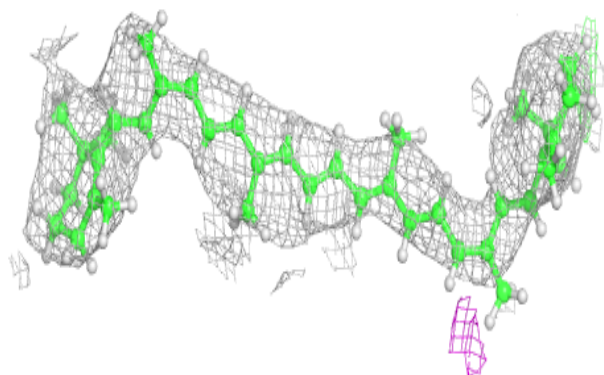


Electron density around CLA B 828:

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

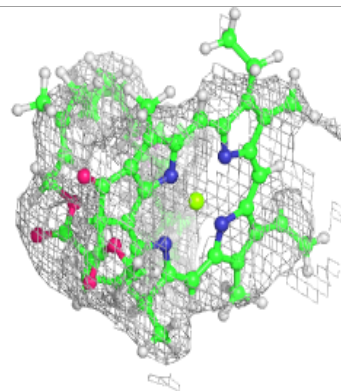
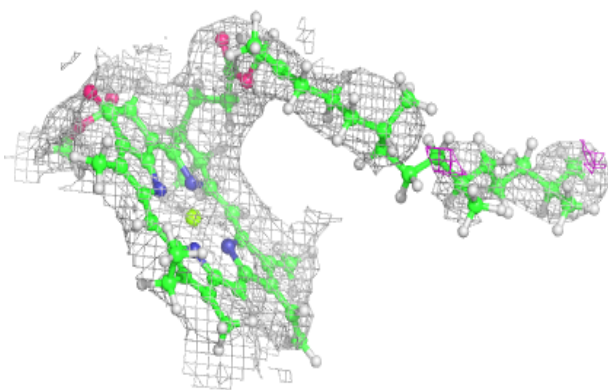
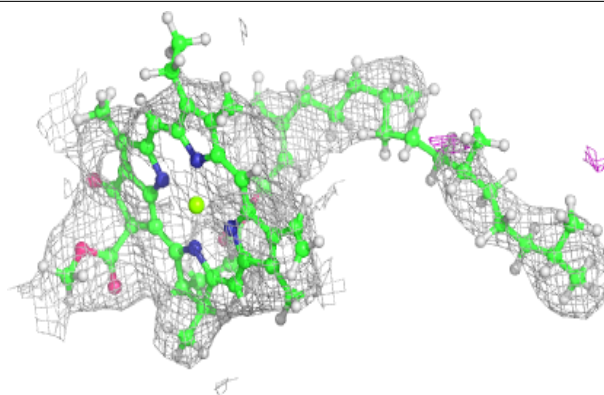
**Electron density around BCR B 845:**

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



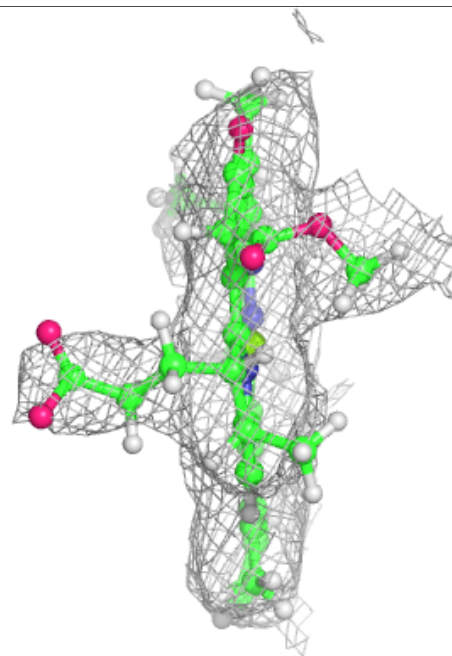
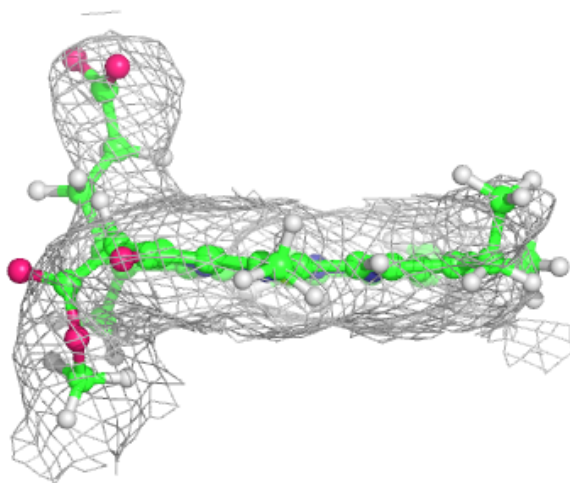
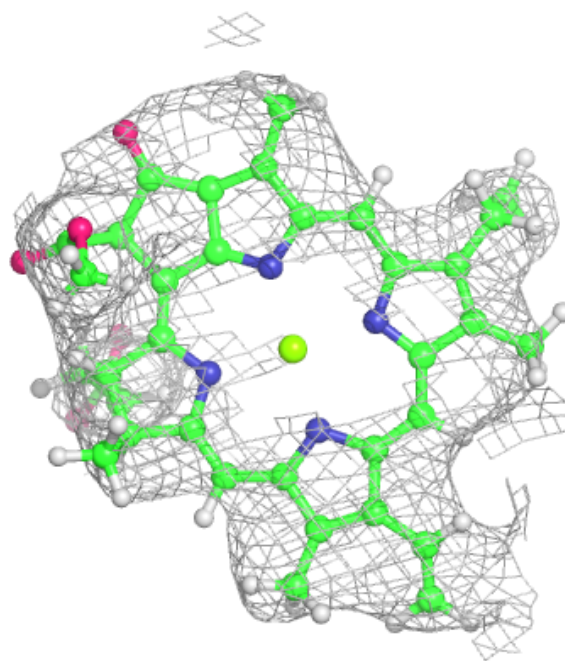
Electron density around CLA B 814:

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



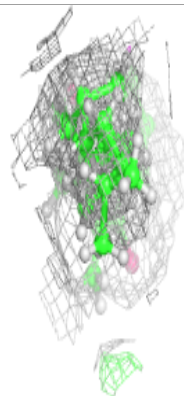
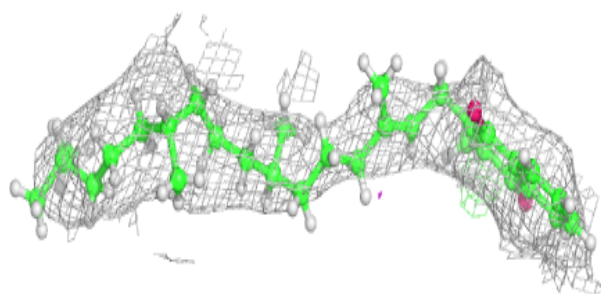
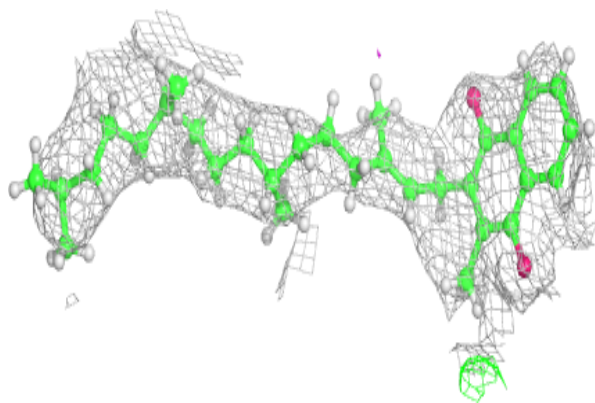
Electron density around CLA B 815:

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

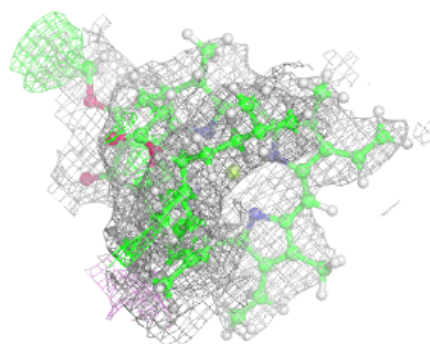
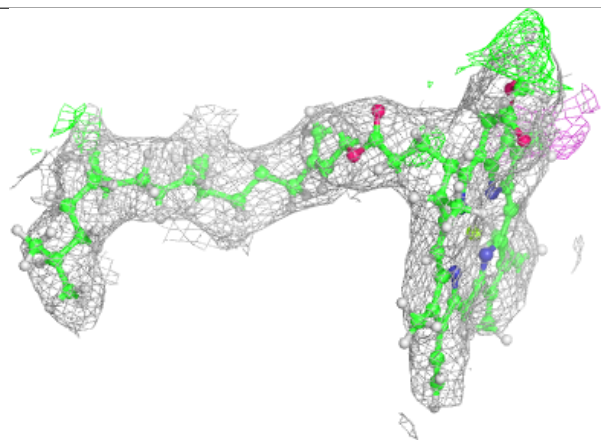
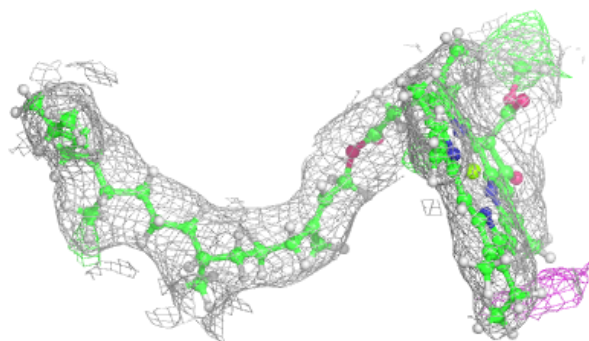


Electron density around PQN A 845:

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

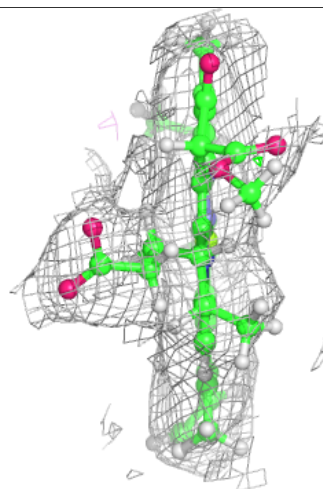
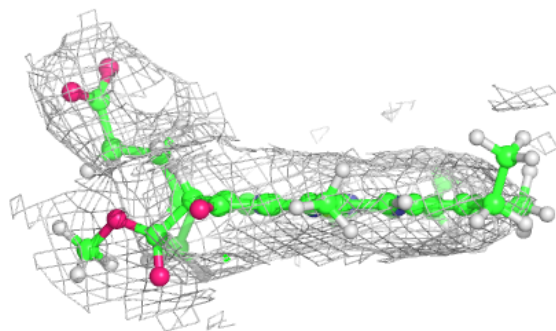
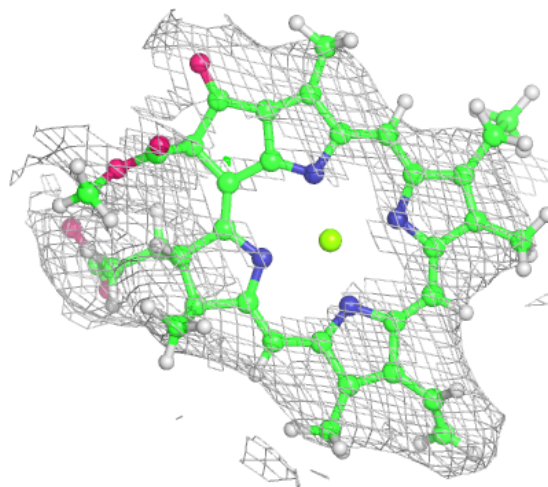
**Electron density around CLA L 205:**

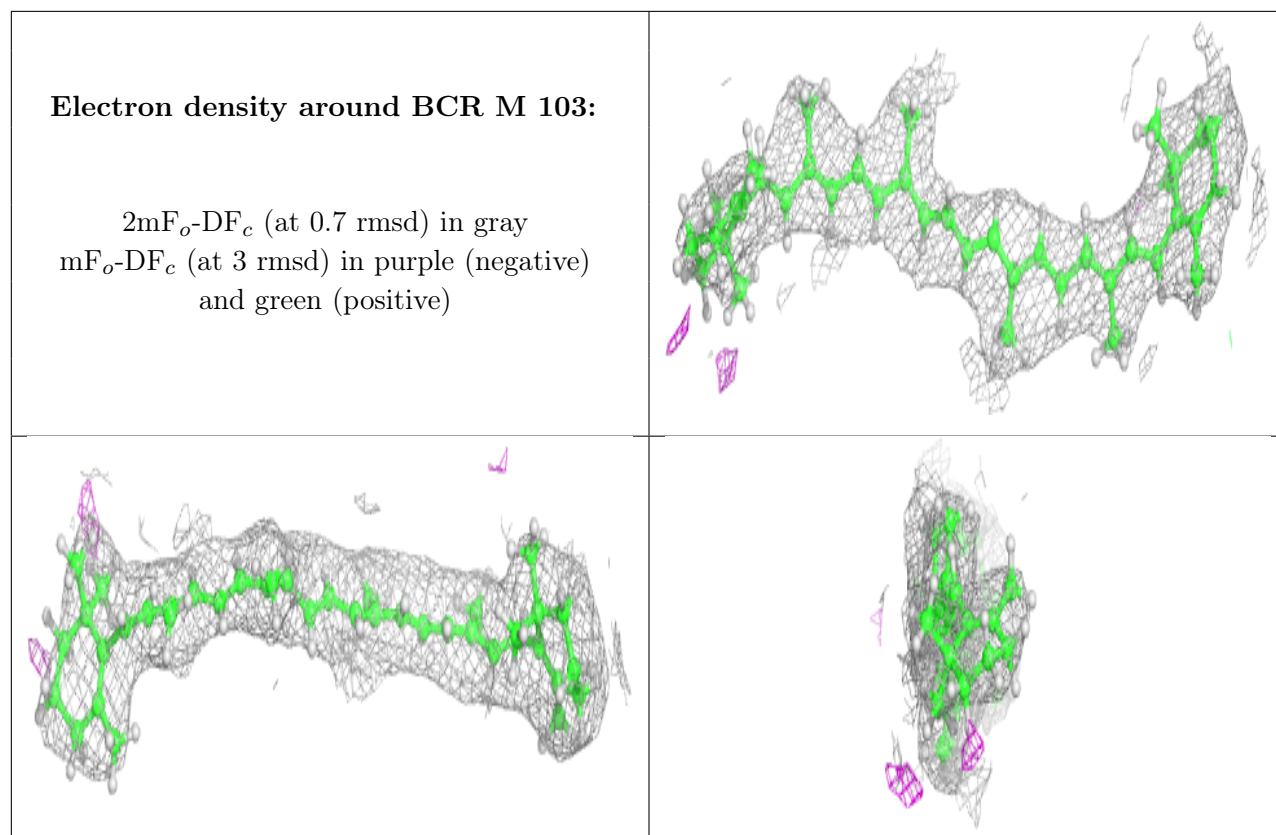
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 823:

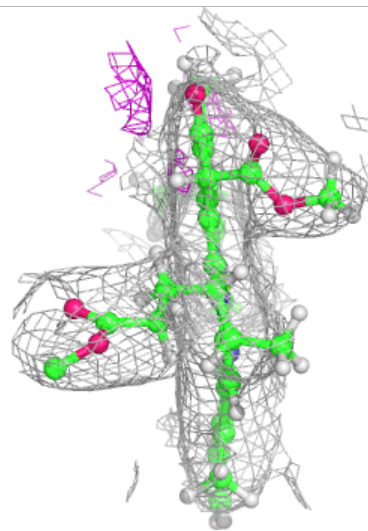
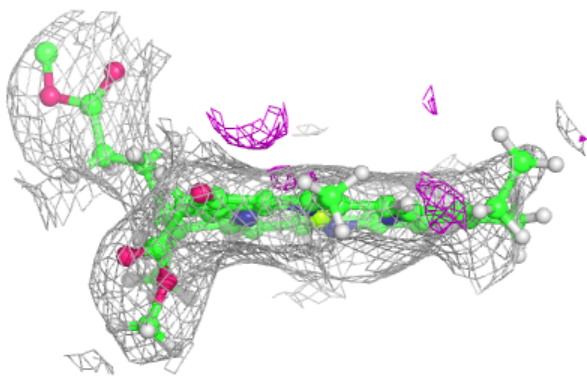
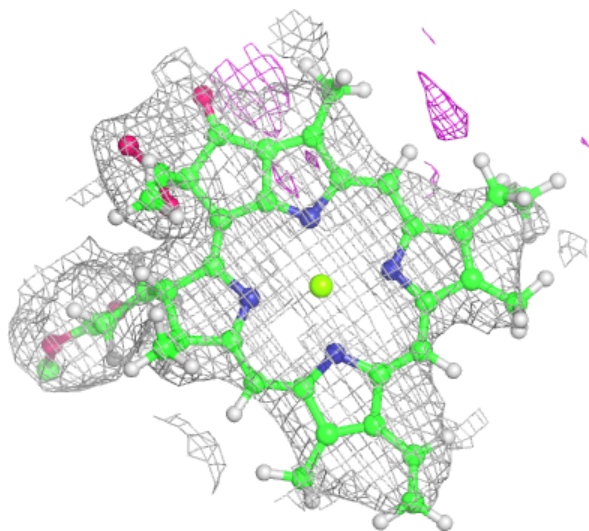
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





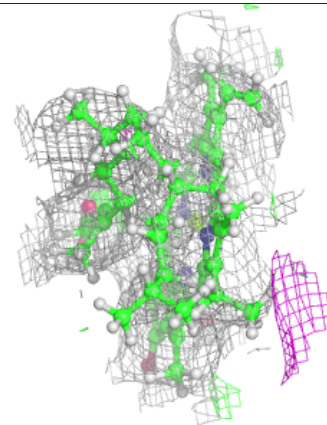
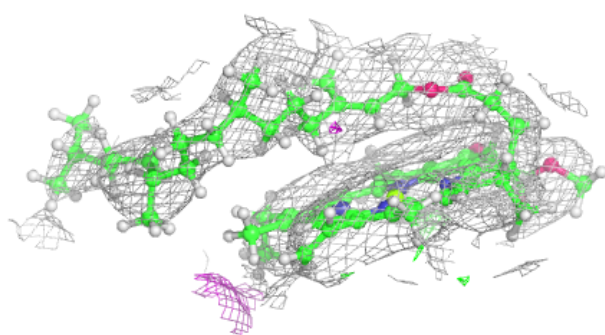
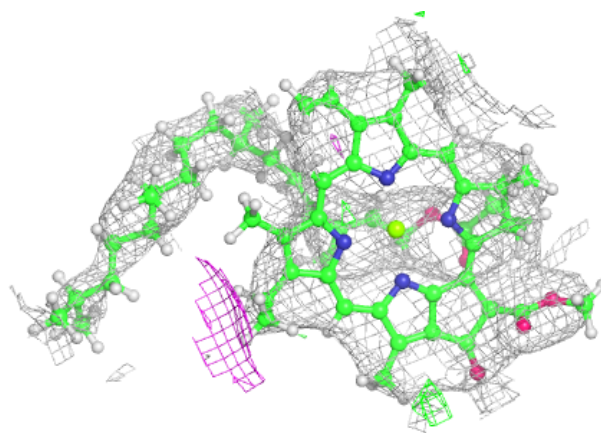
Electron density around CLA B 825:

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

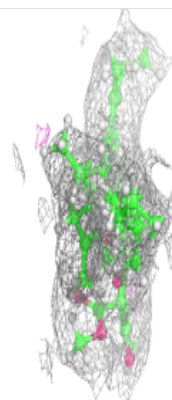
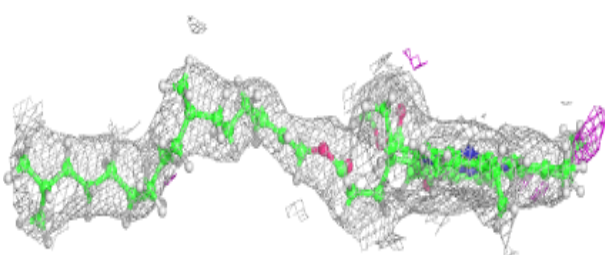
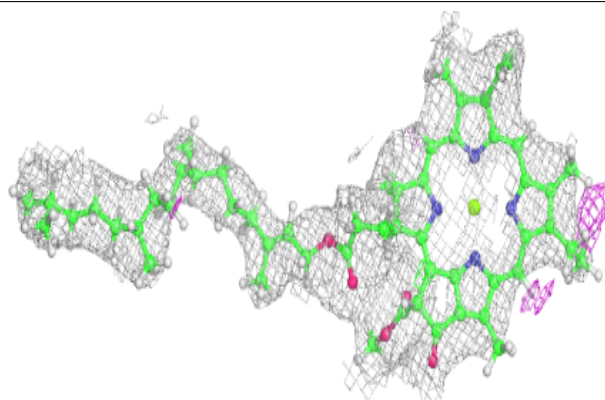


Electron density around CLA B 838:

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

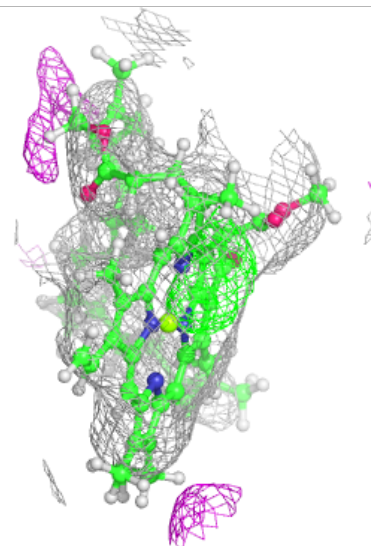
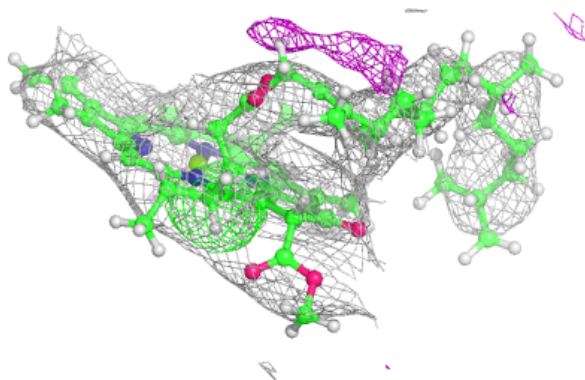
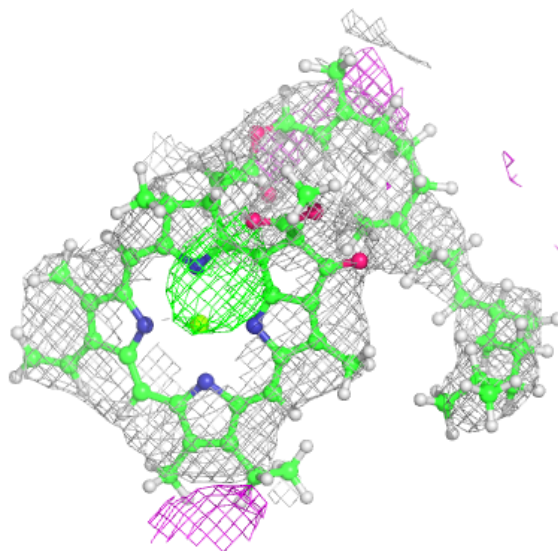
**Electron density around CLA A 834:**

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



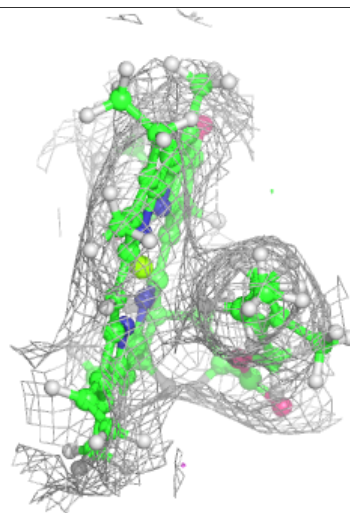
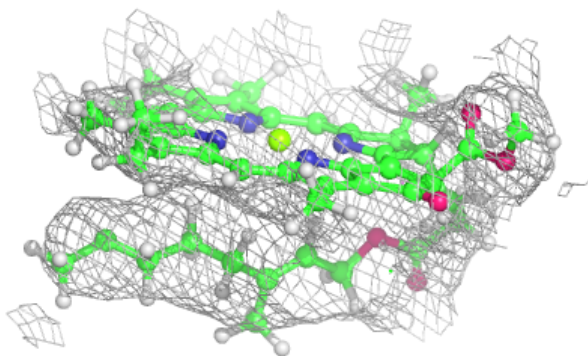
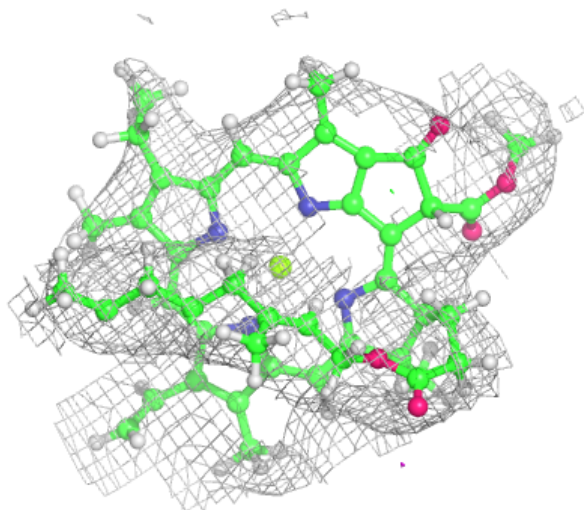
Electron density around CLA B 832:

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



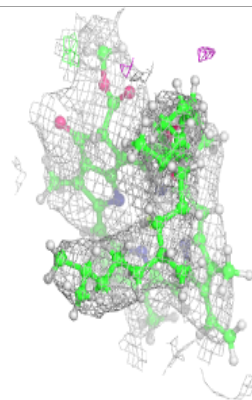
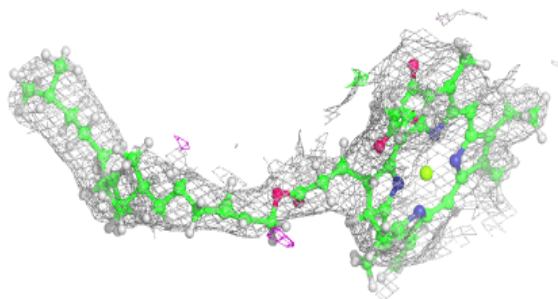
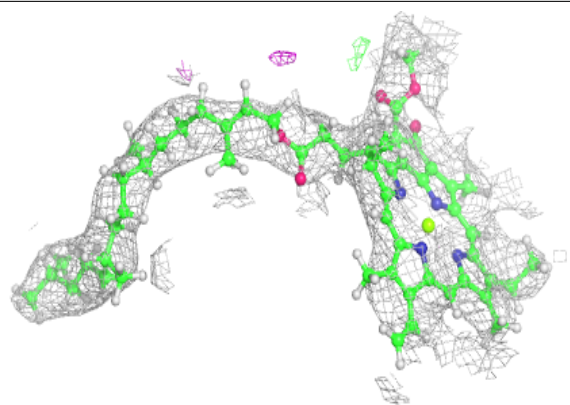
Electron density around CLA A 819:

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

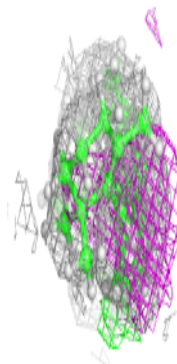
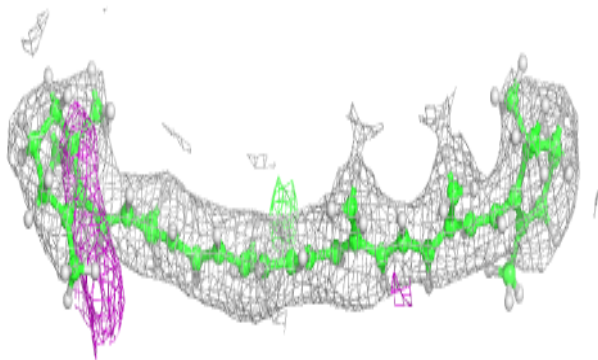
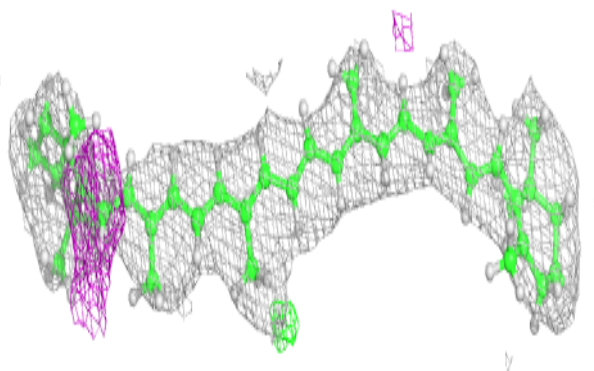


Electron density around CLA A 857:

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

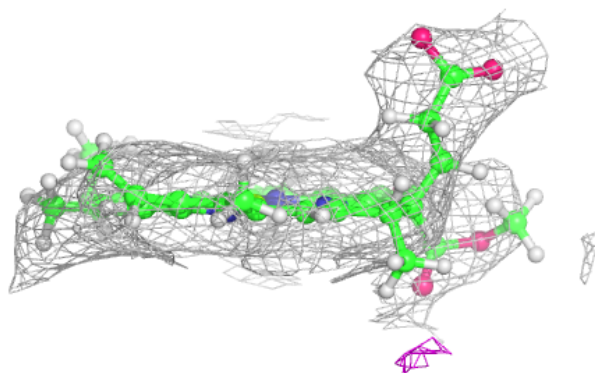
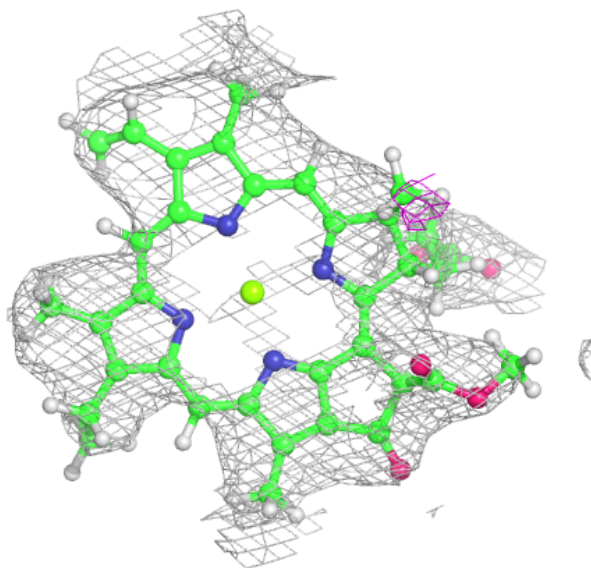
**Electron density around BCR I 101:**

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



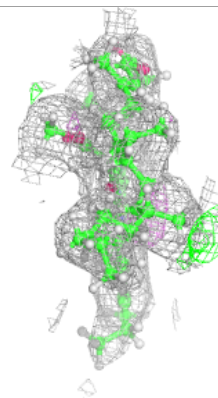
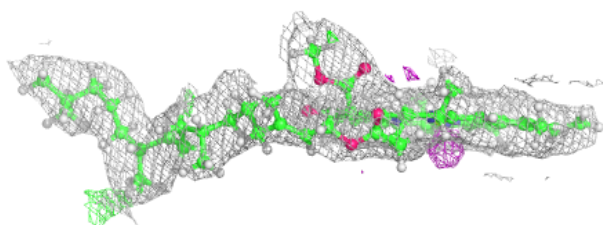
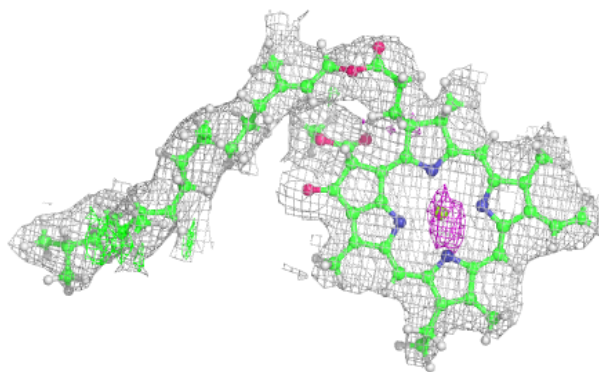
Electron density around CLA B 835:

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

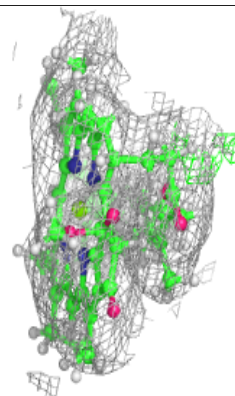
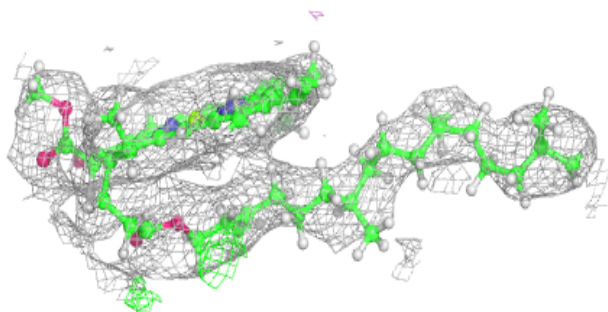
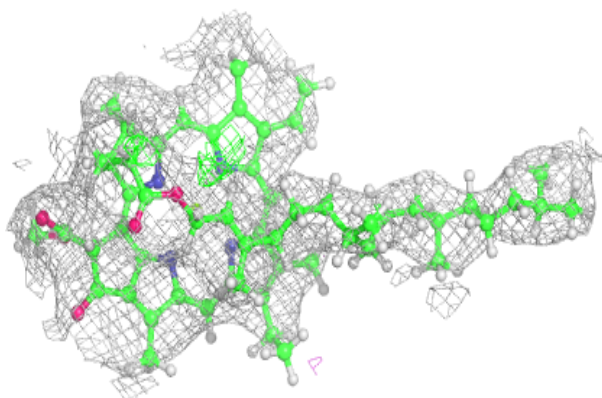


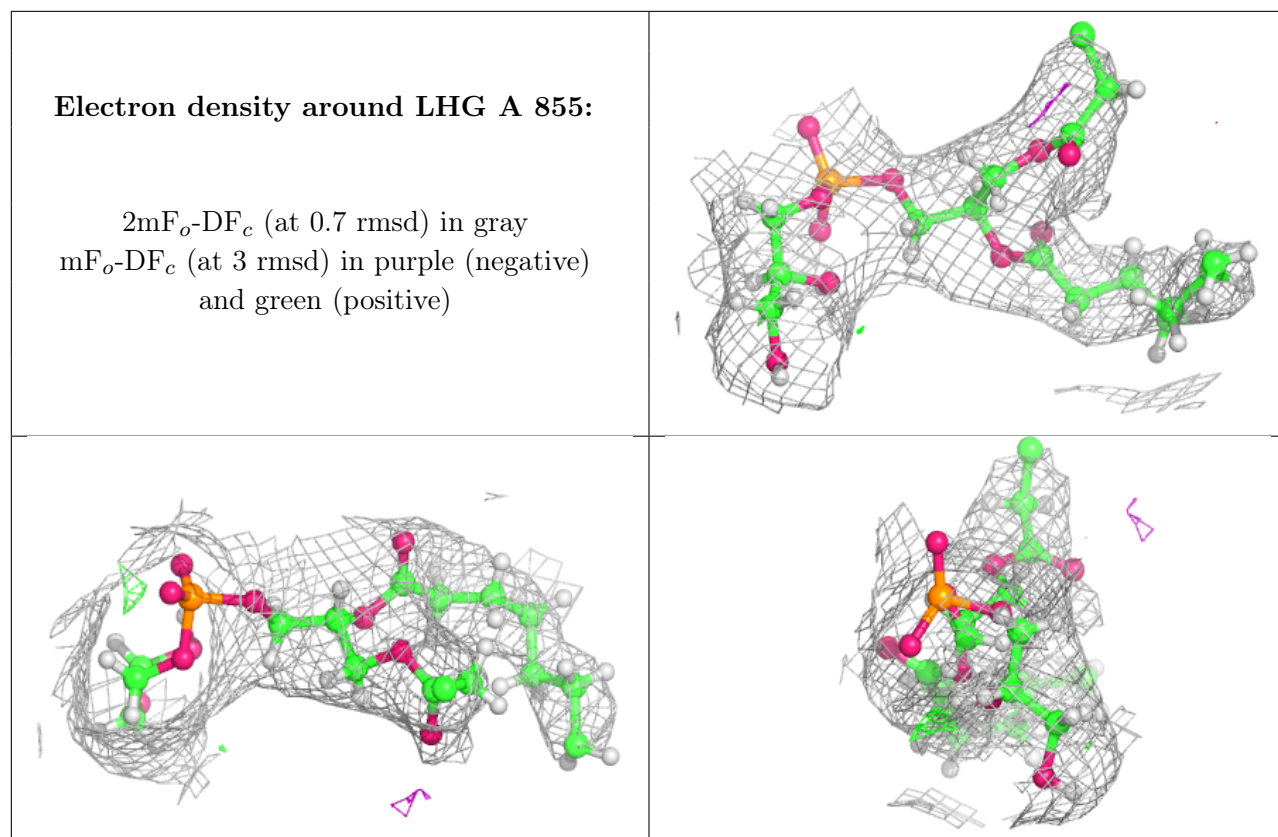
Electron density around CLA L 206:

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

**Electron density around CLA A 839:**

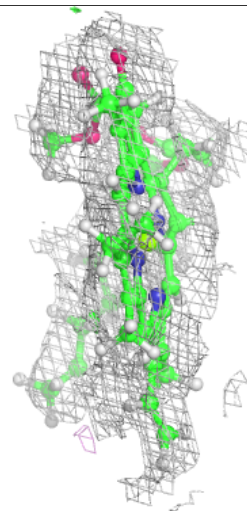
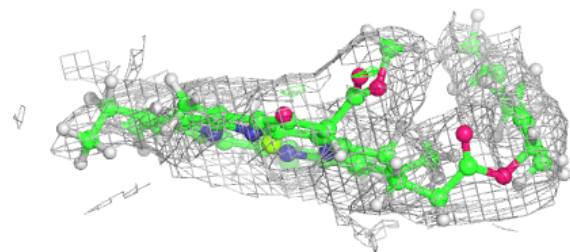
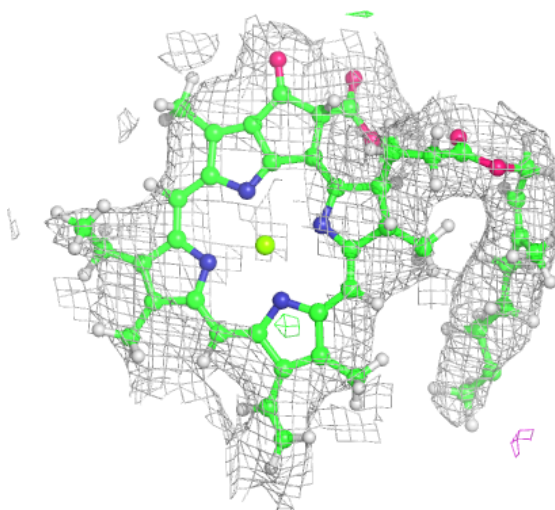
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





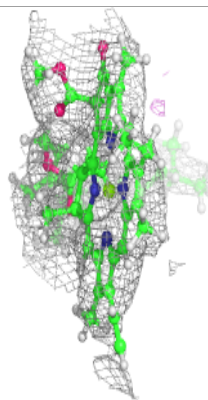
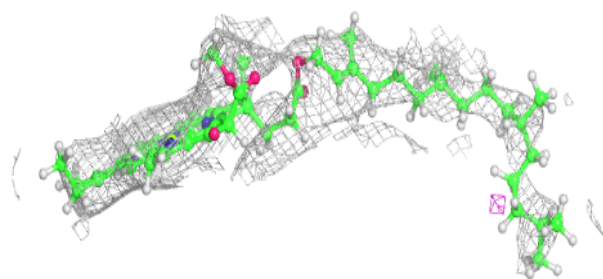
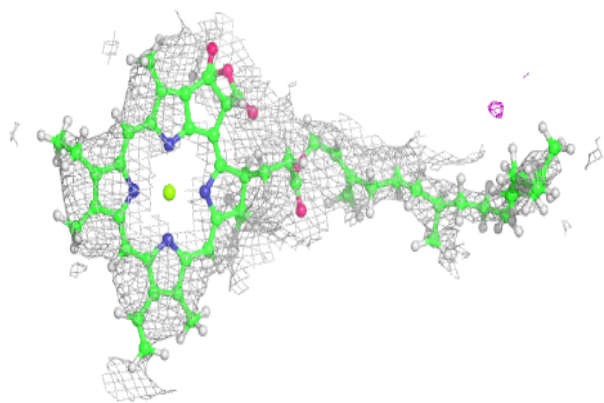
Electron density around CLA B 824:

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

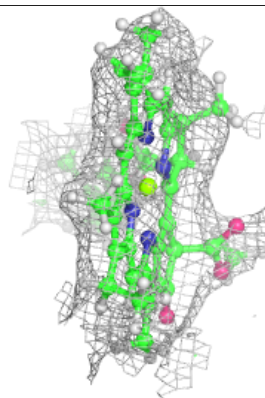
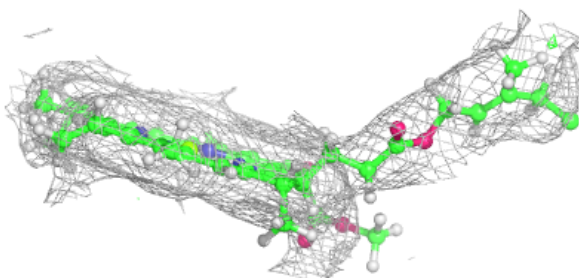
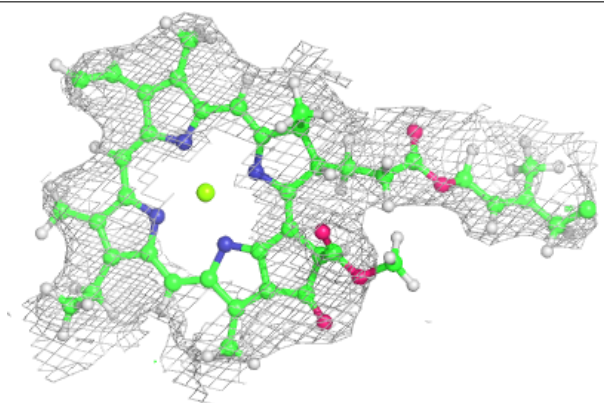


Electron density around CLA A 806:

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

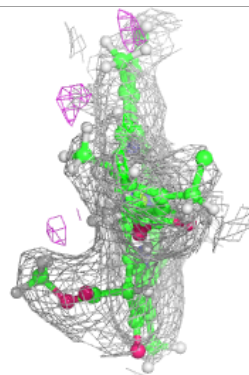
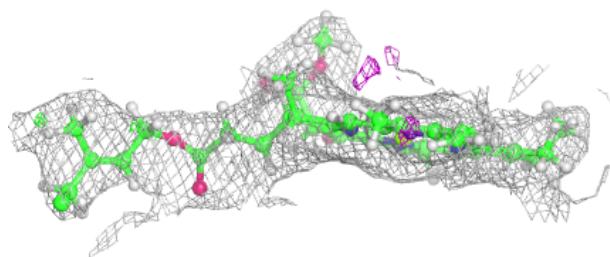
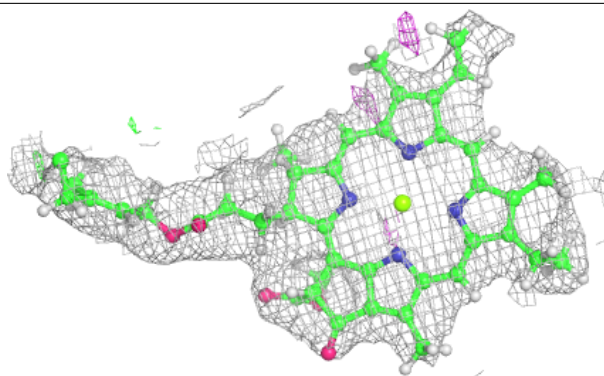
**Electron density around CLA F 201:**

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

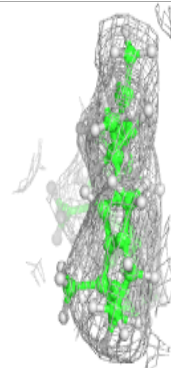
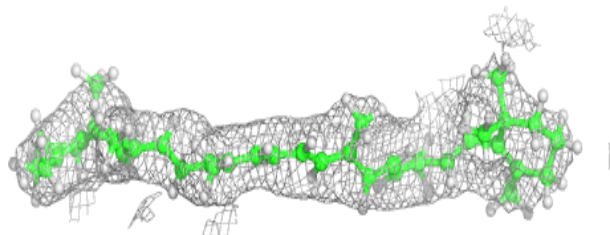
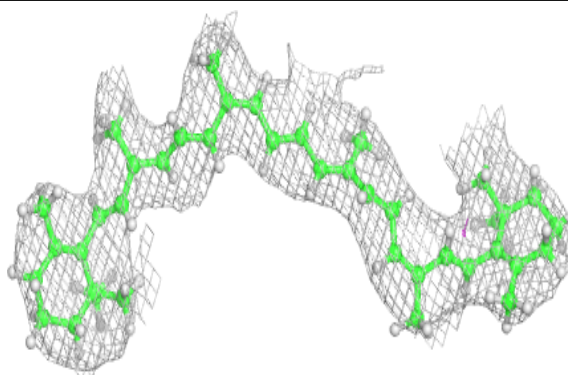


Electron density around CLA A 838:

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

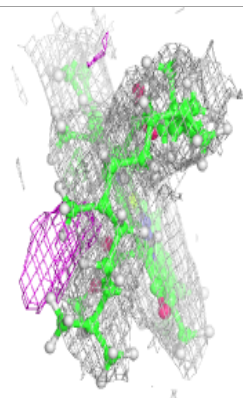
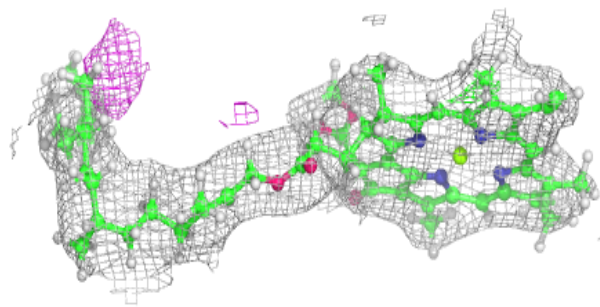
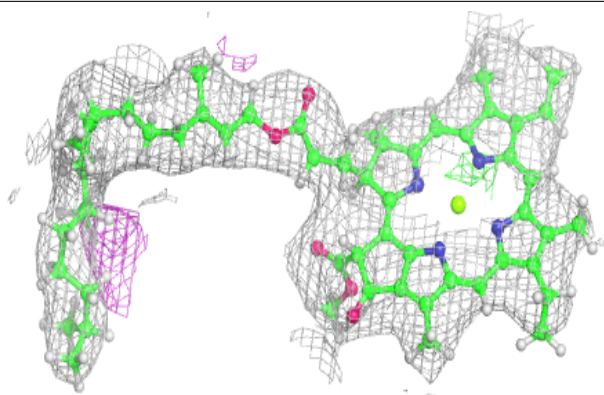
**Electron density around BCR A 852:**

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



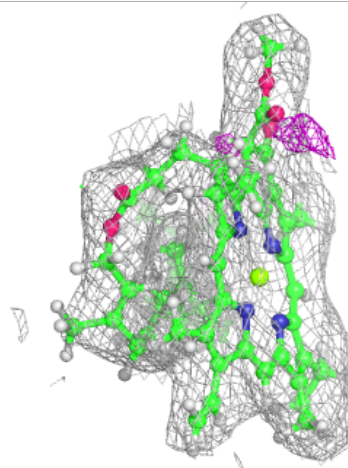
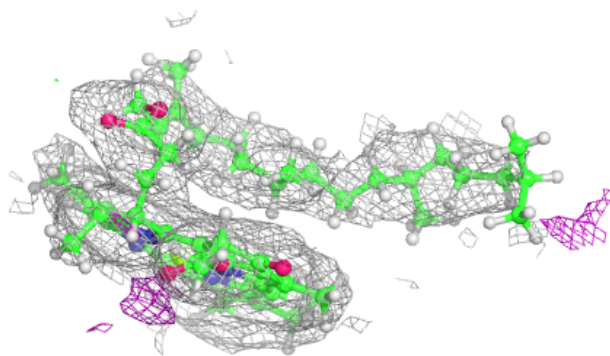
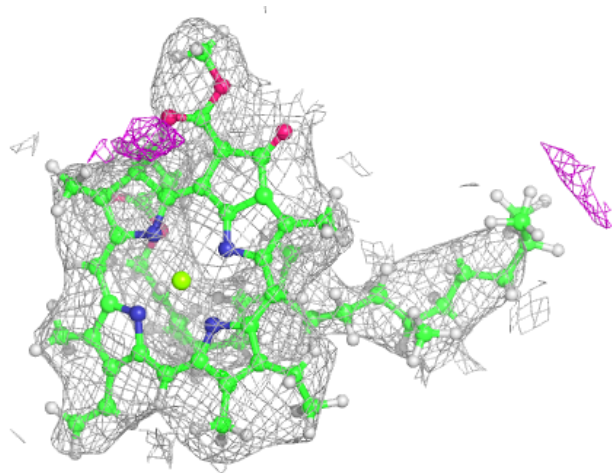
Electron density around CLA B 826:

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



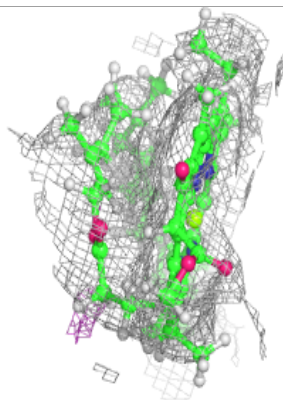
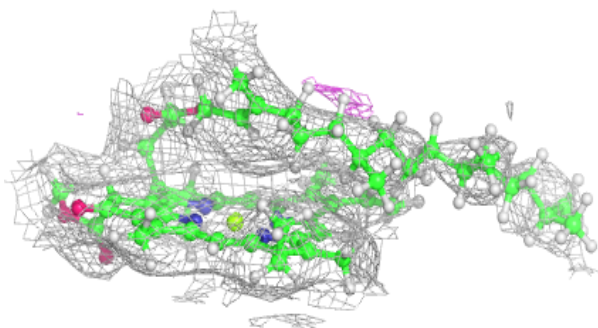
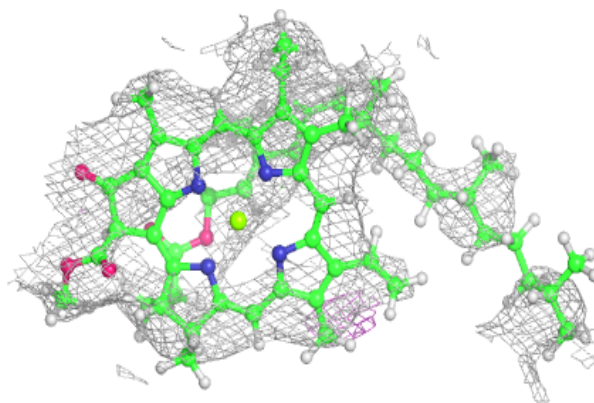
Electron density around CLA B 827:

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

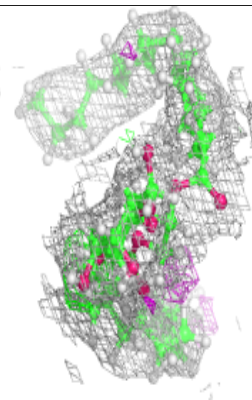
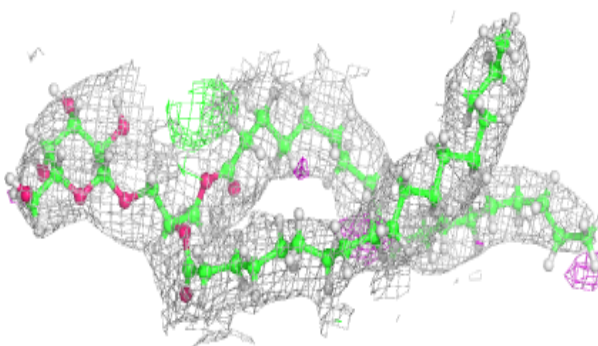
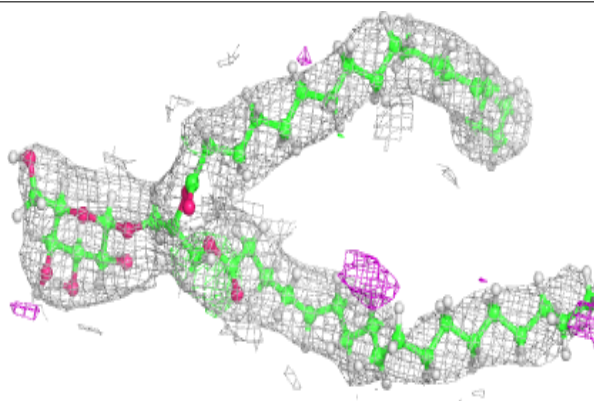


Electron density around CLA A 841:

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

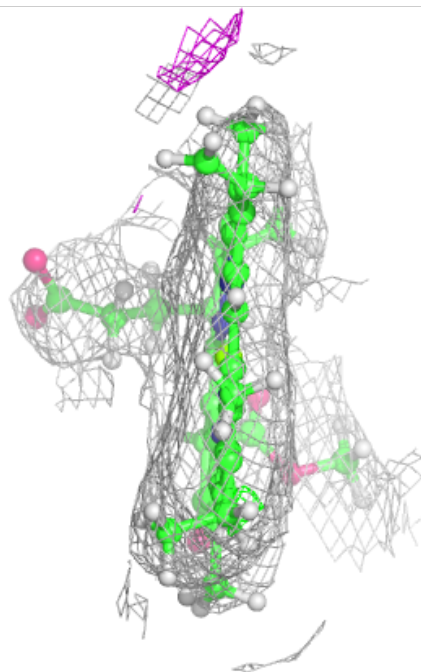
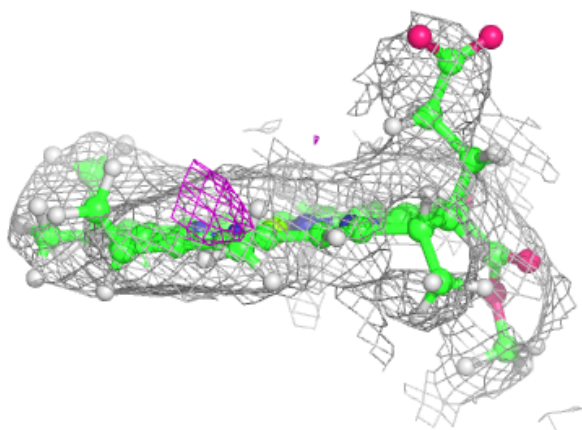
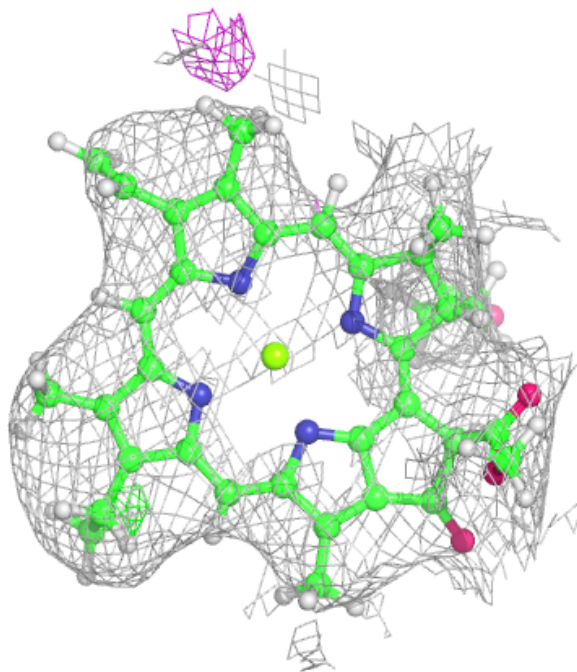
**Electron density around LMG B 849:**

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



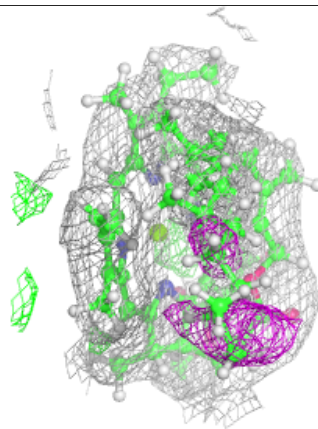
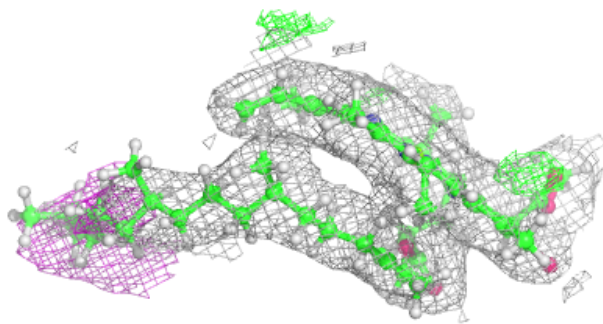
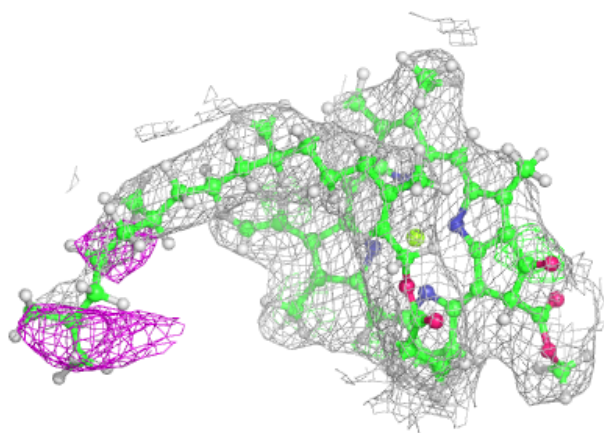
Electron density around CLA B 830:

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

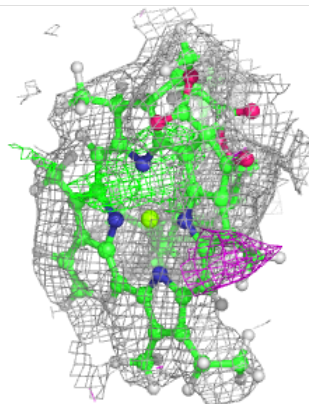
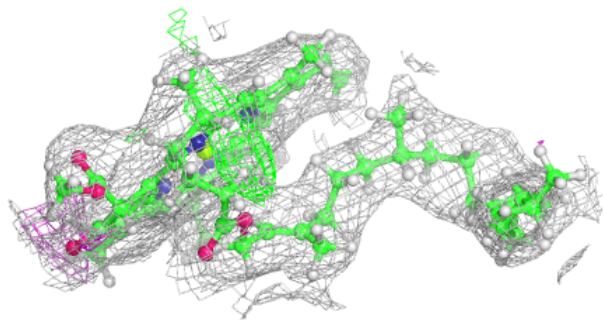
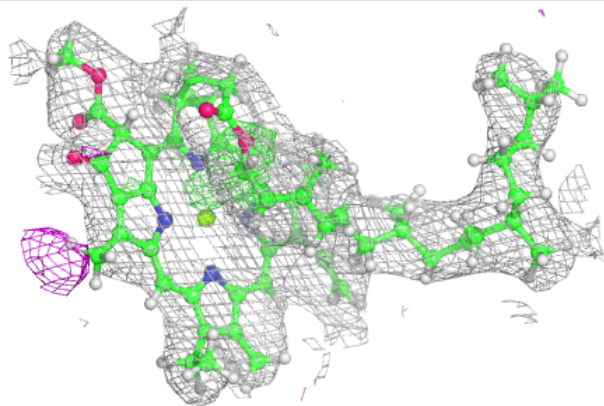


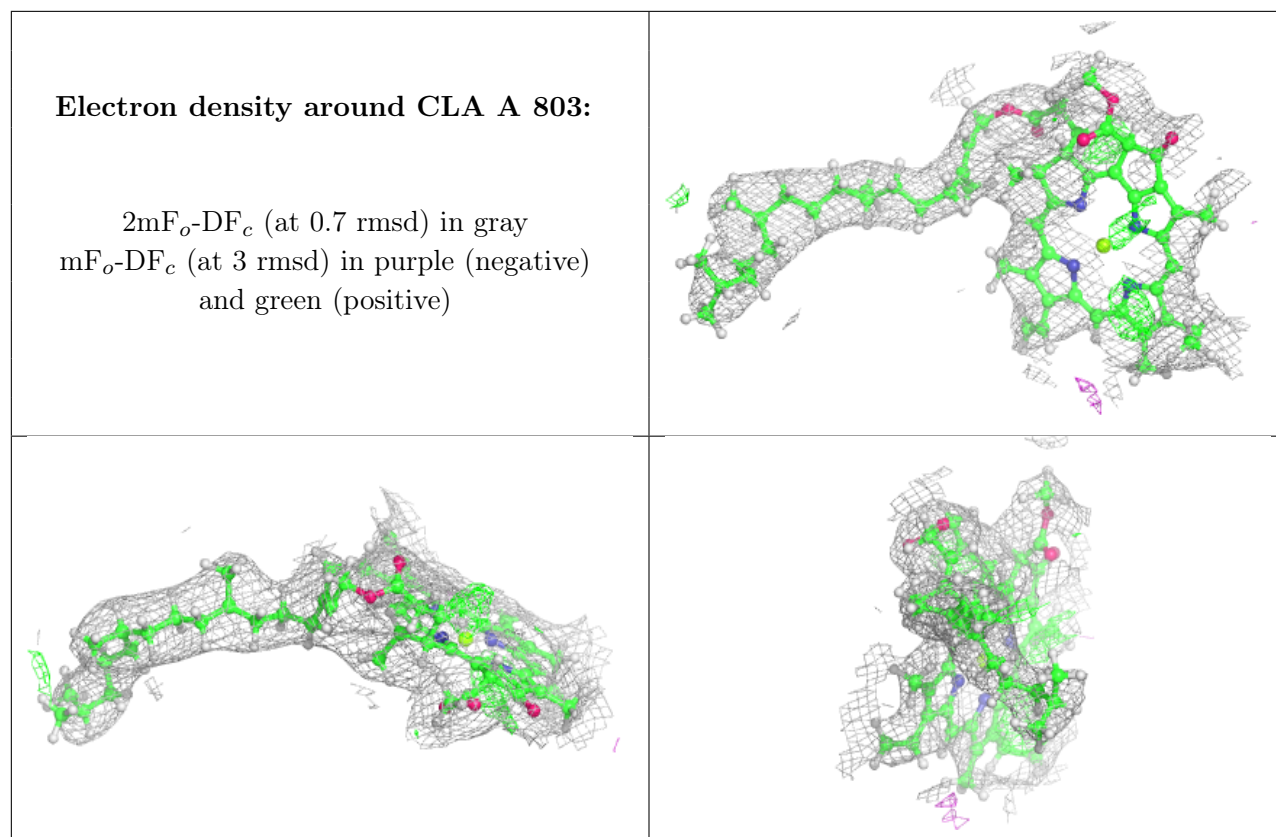
Electron density around CLA B 807:

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

**Electron density around CLA A 843:**

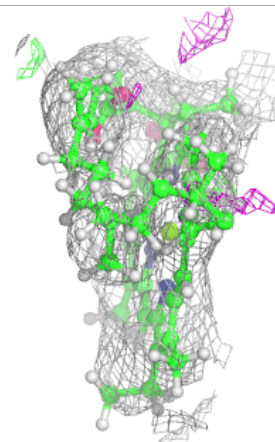
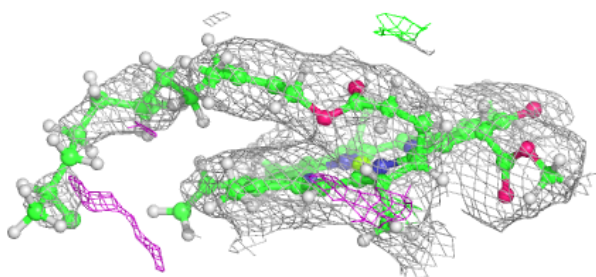
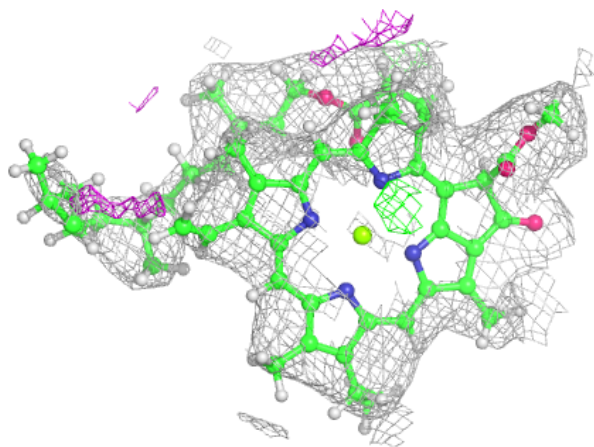
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





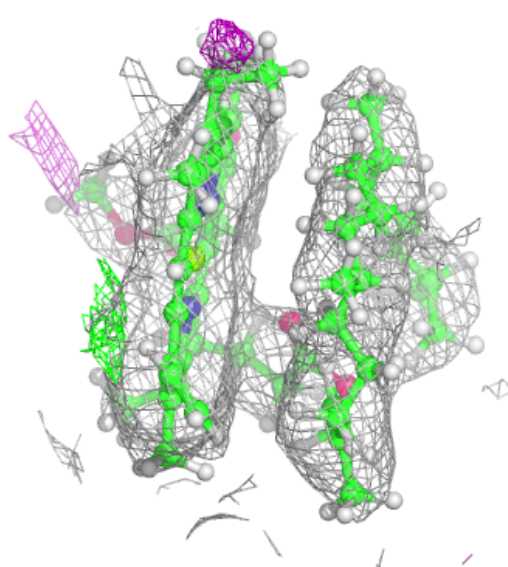
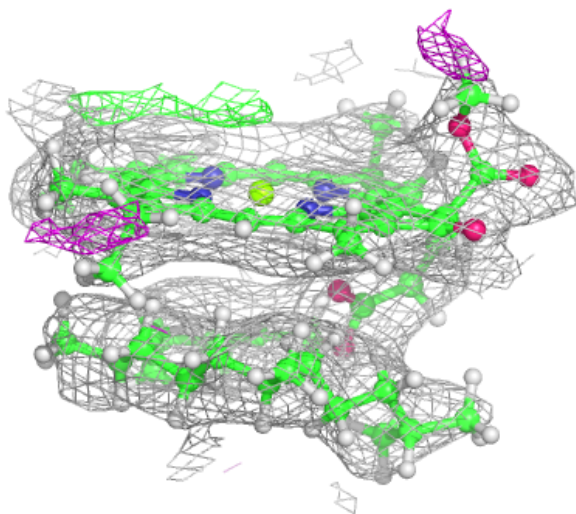
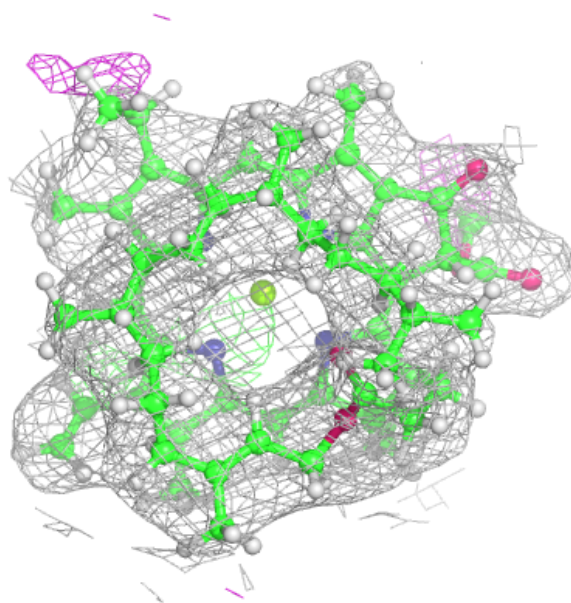
Electron density around CLA B 818:

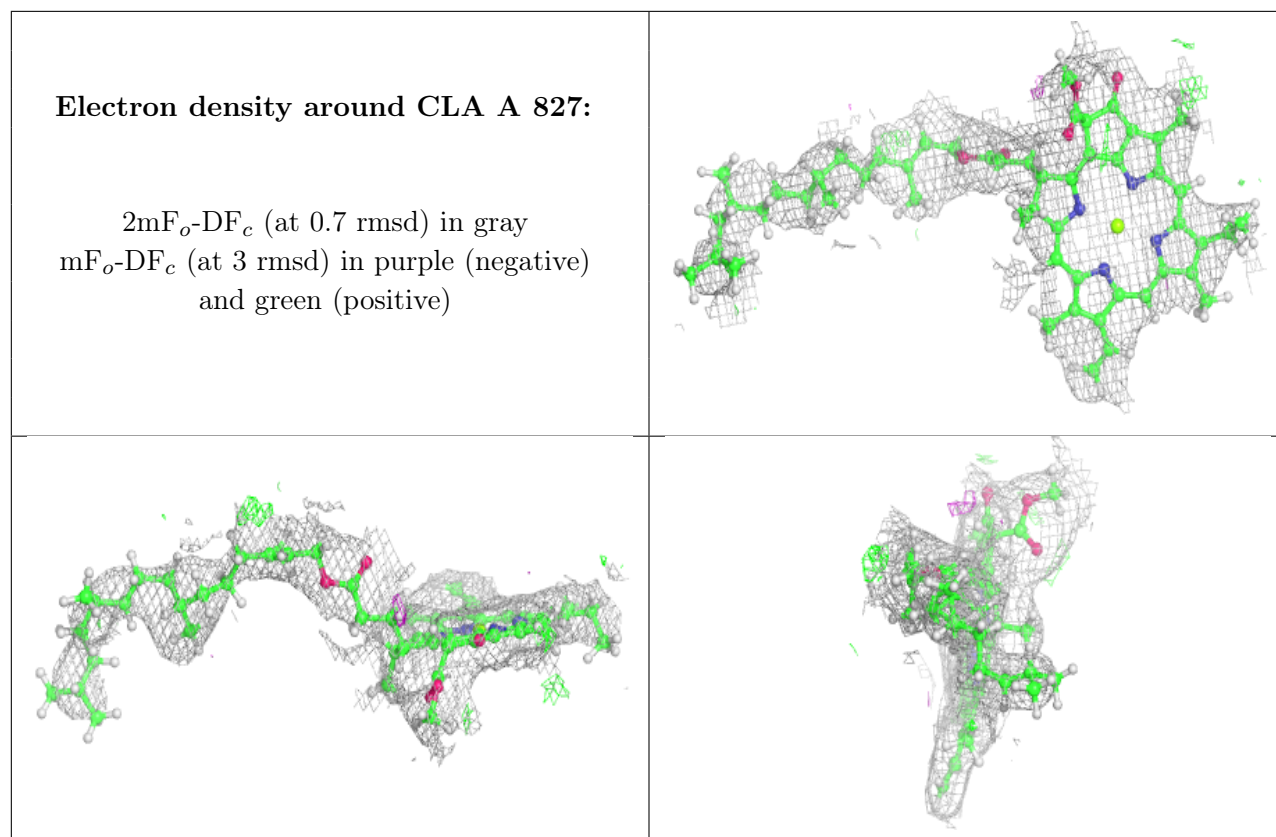
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA L 204:

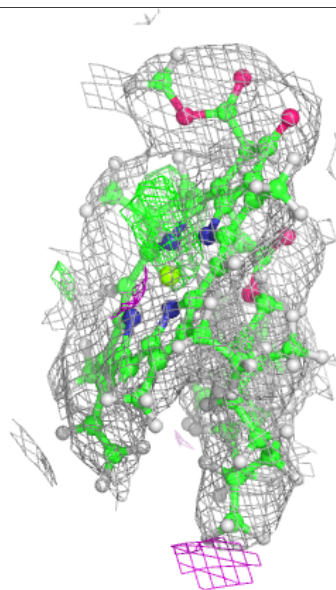
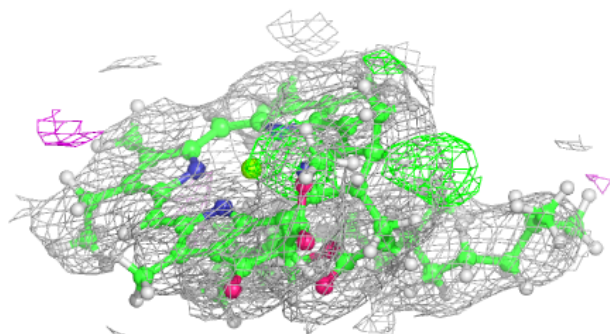
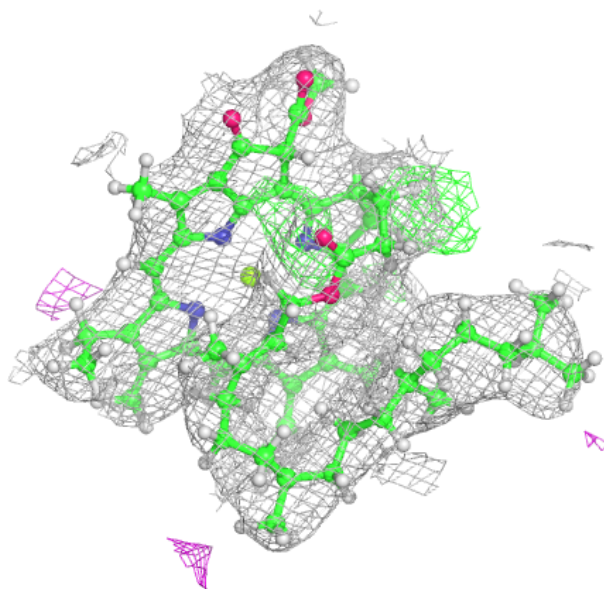
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

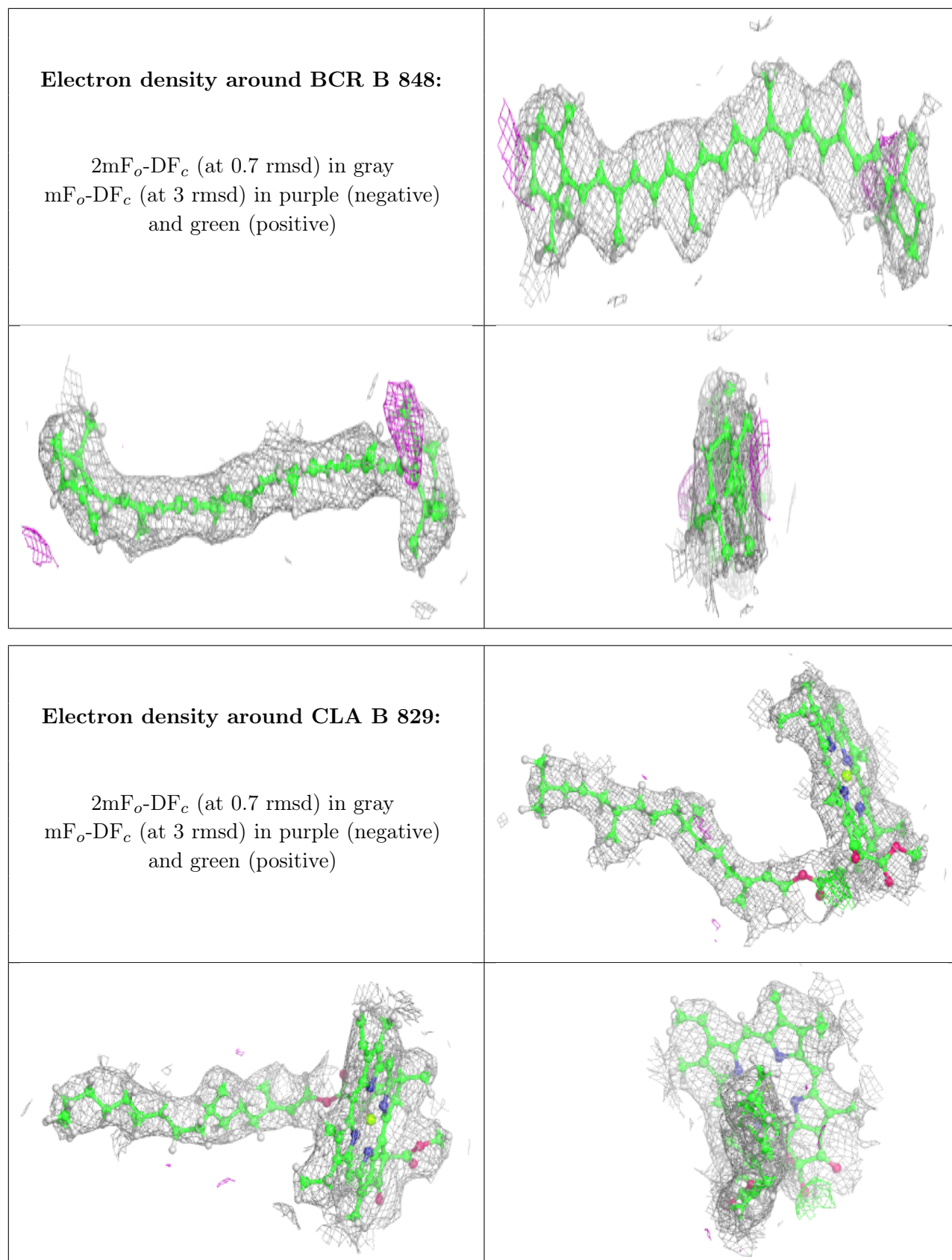




Electron density around CLA B 808:

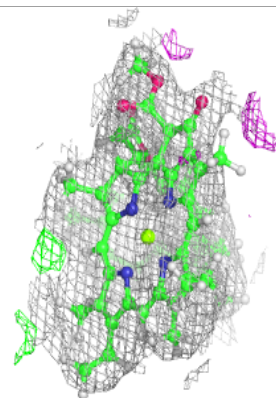
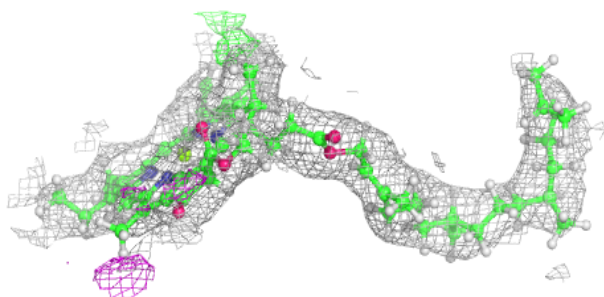
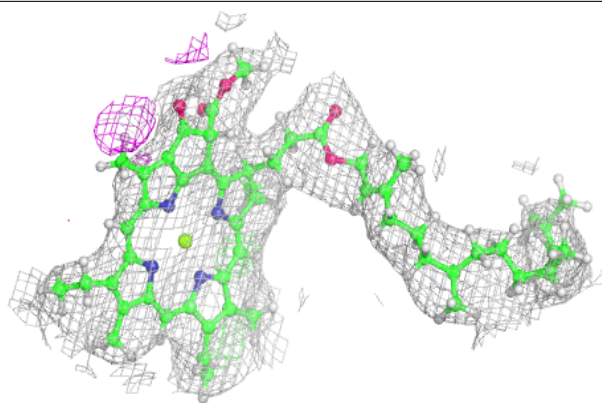
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



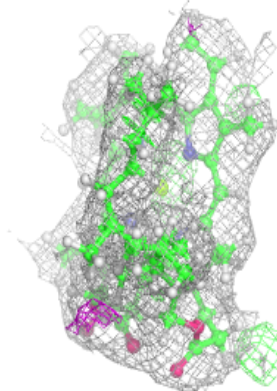
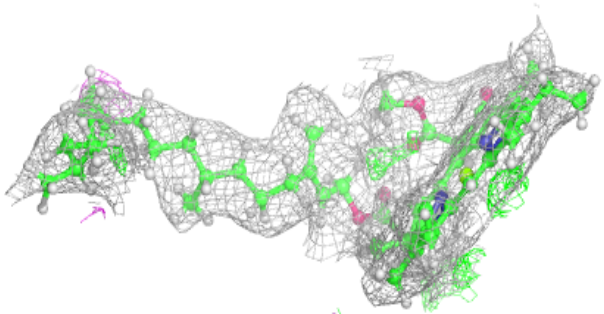
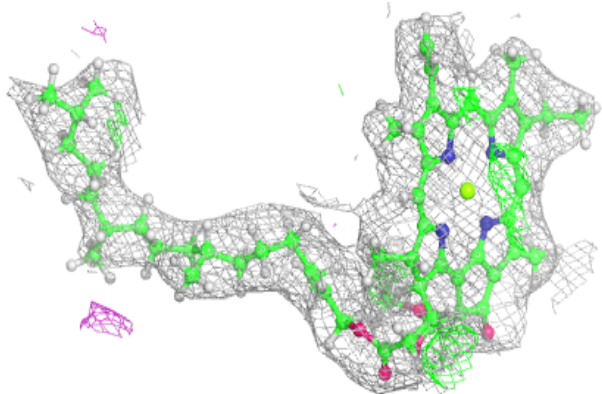


Electron density around CLA B 809:

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

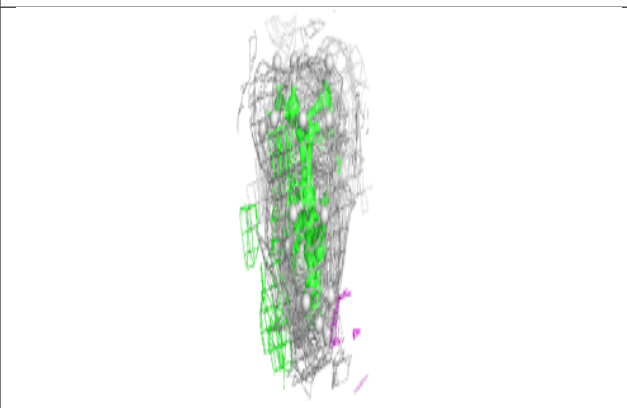
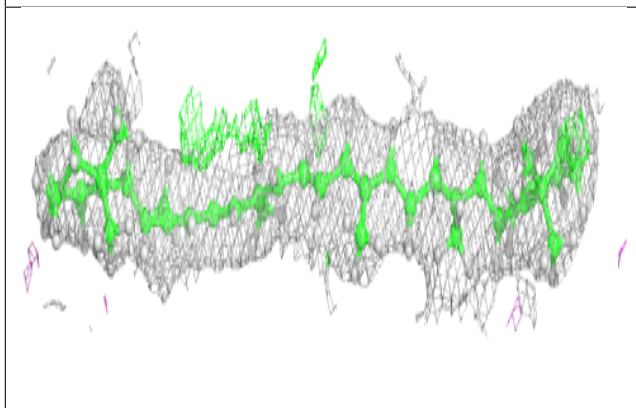
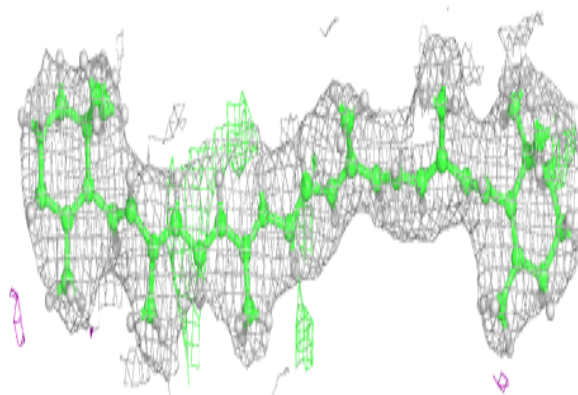
**Electron density around CLA B 810:**

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

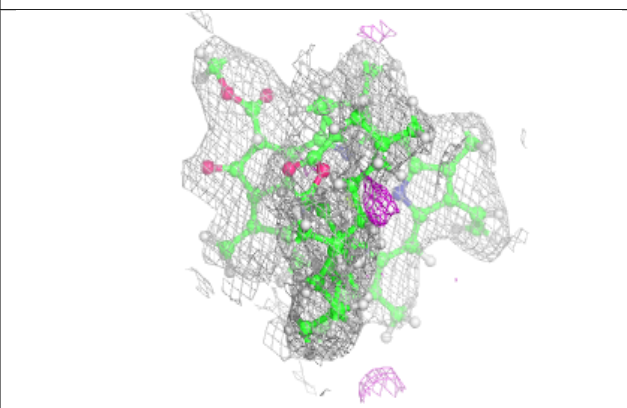
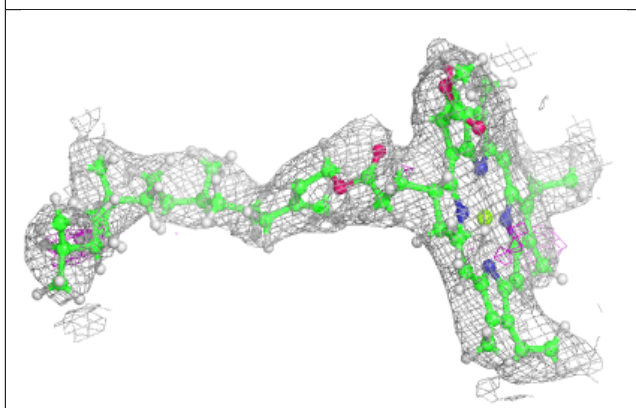
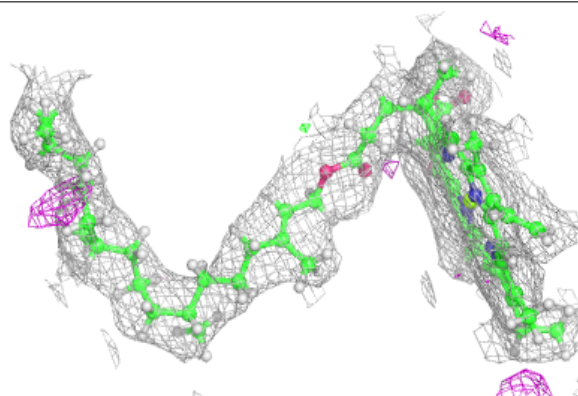


Electron density around BCR I 103:

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

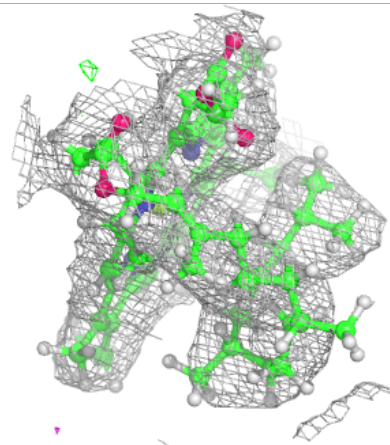
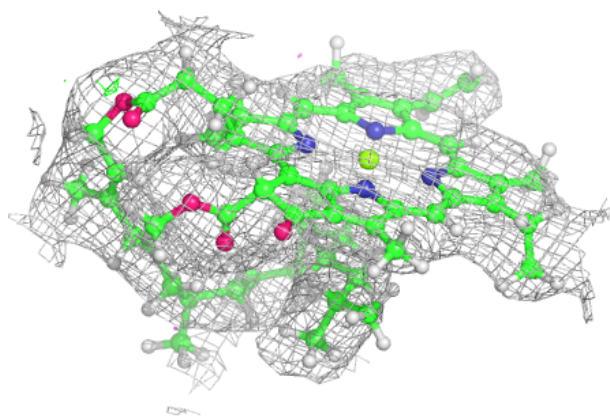
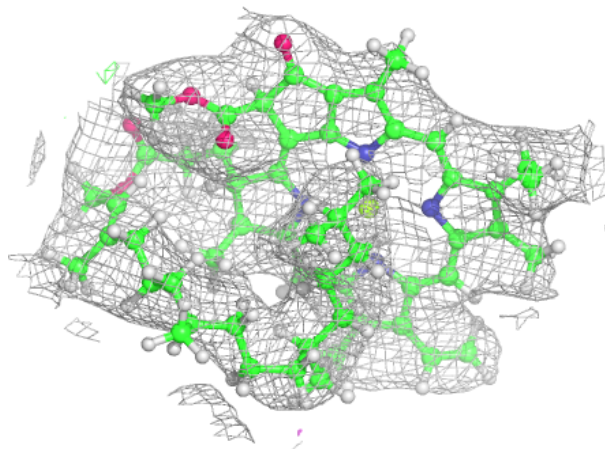
**Electron density around CLA B 840:**

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



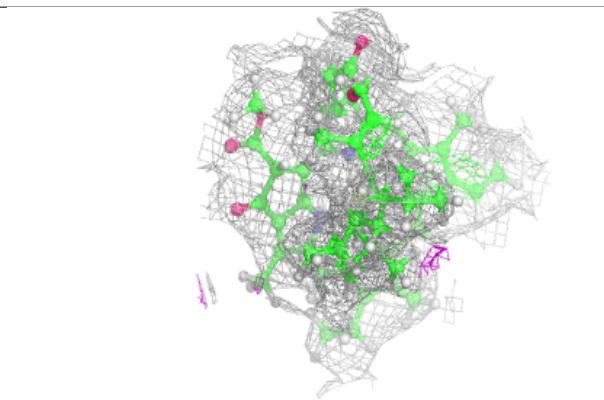
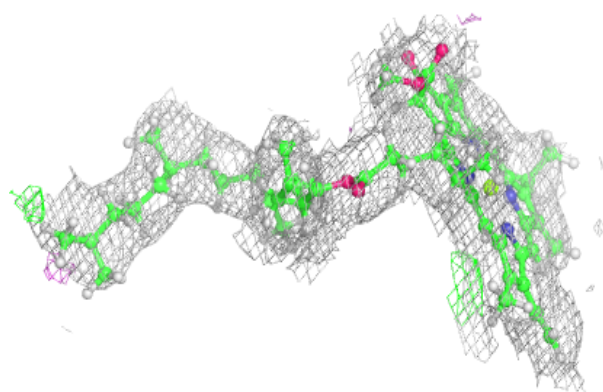
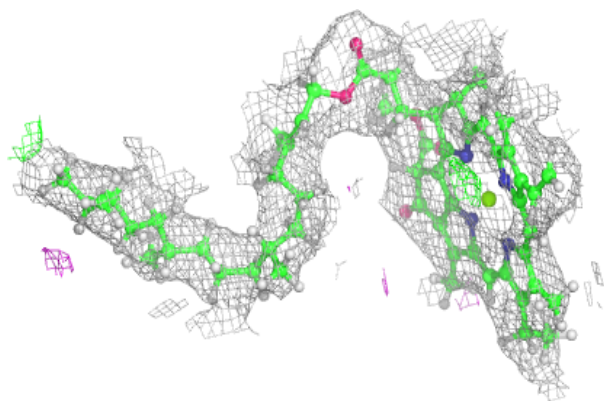
Electron density around CLA B 806:

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

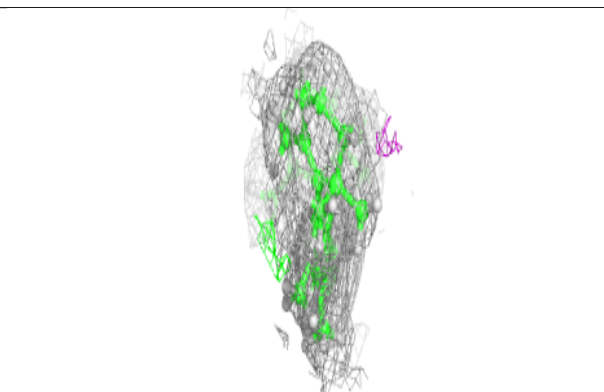
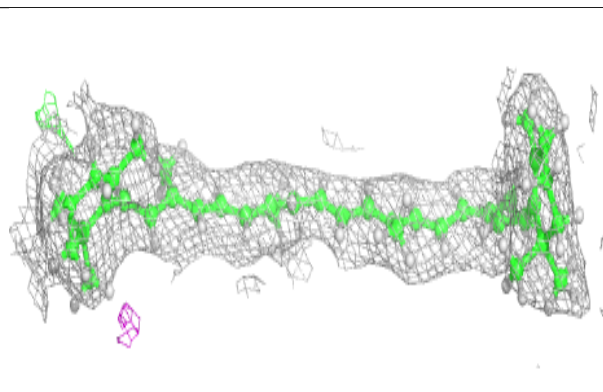
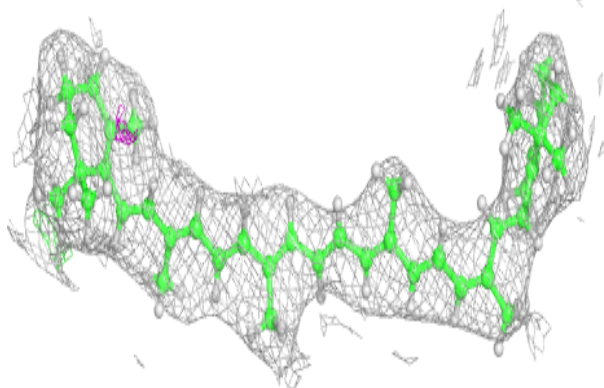


Electron density around CLA B 802:

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

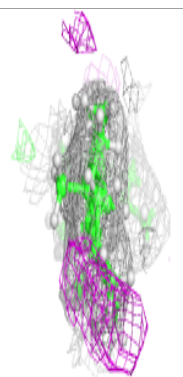
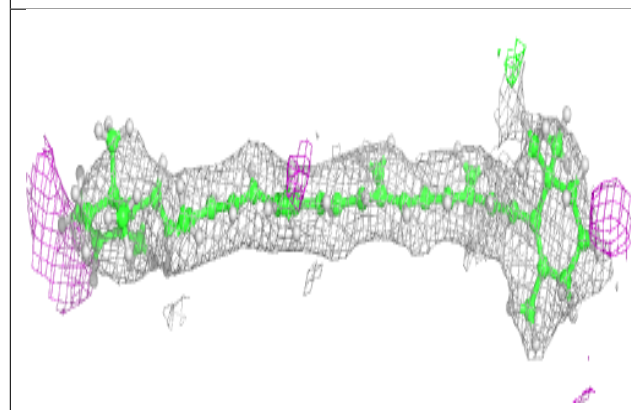
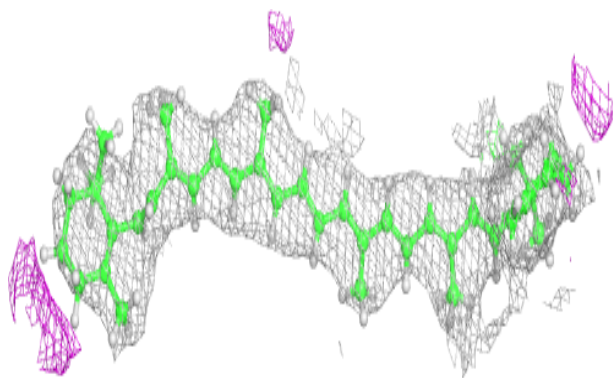
**Electron density around BCR L 201:**

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



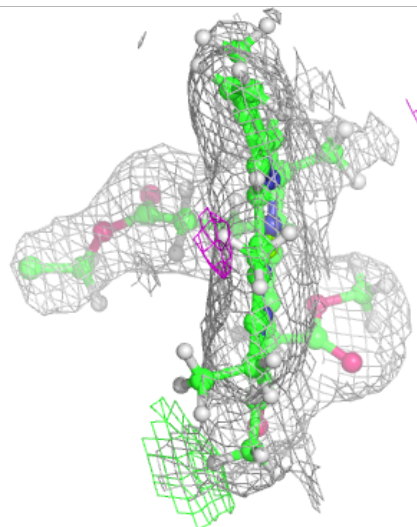
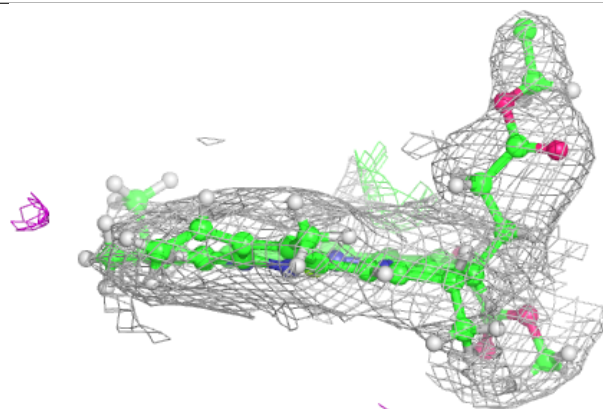
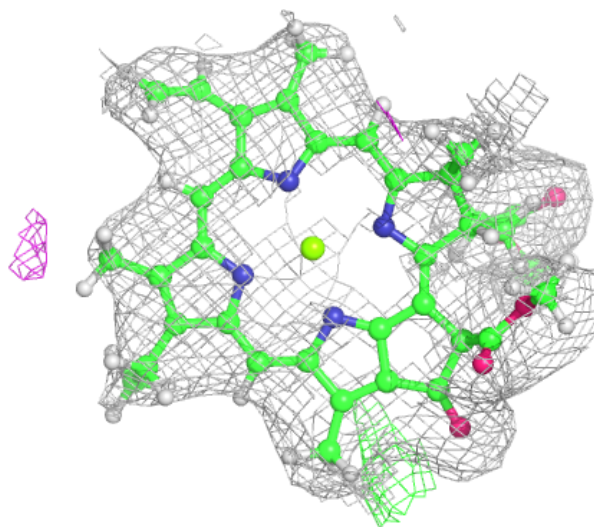
Electron density around BCR L 208:

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



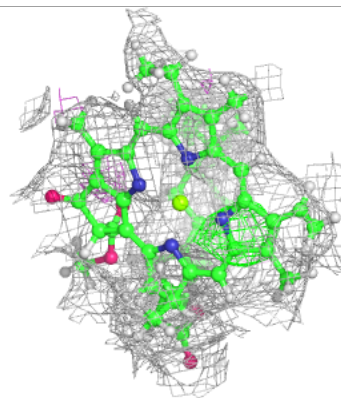
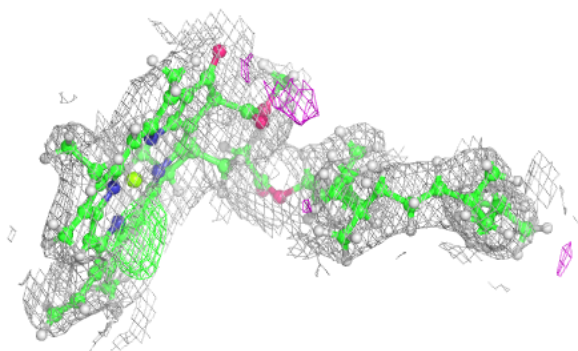
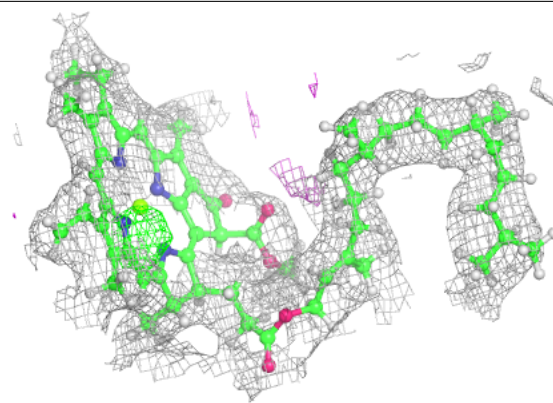
Electron density around CLA A 840:

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

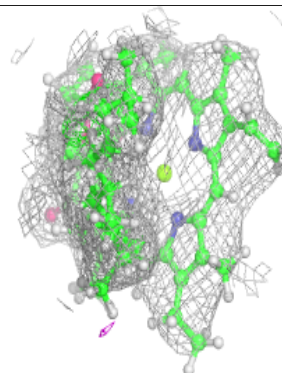
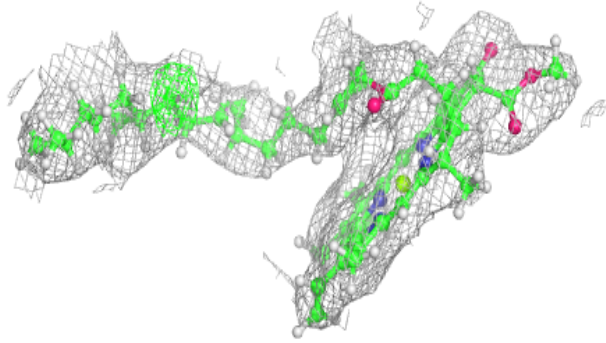
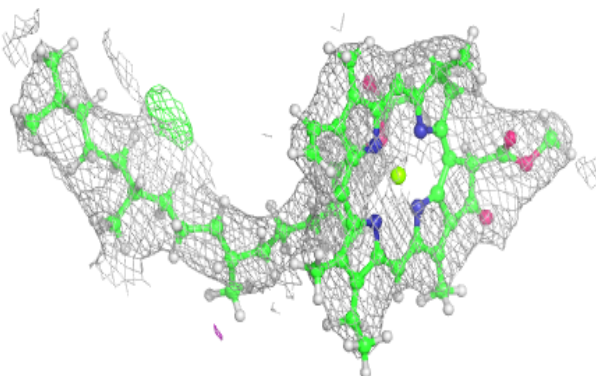


Electron density around CL0 A 801:

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

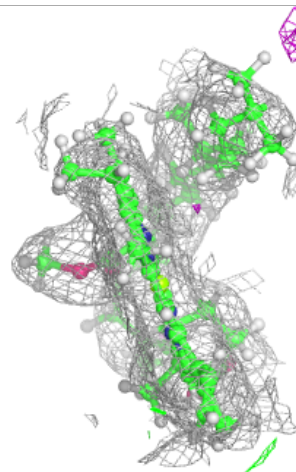
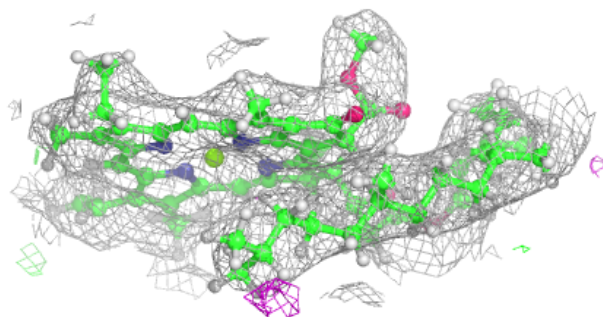
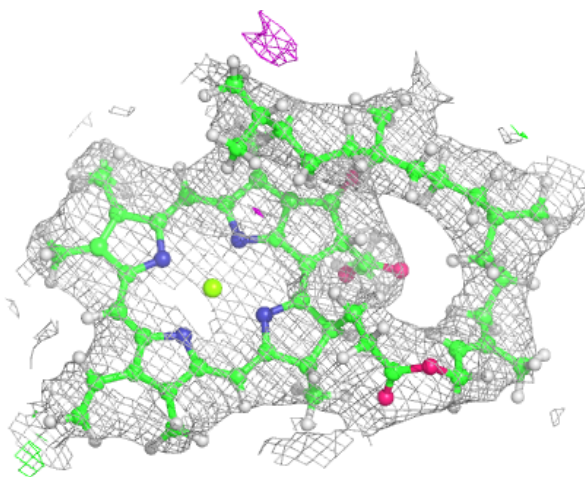
**Electron density around CLA A 842:**

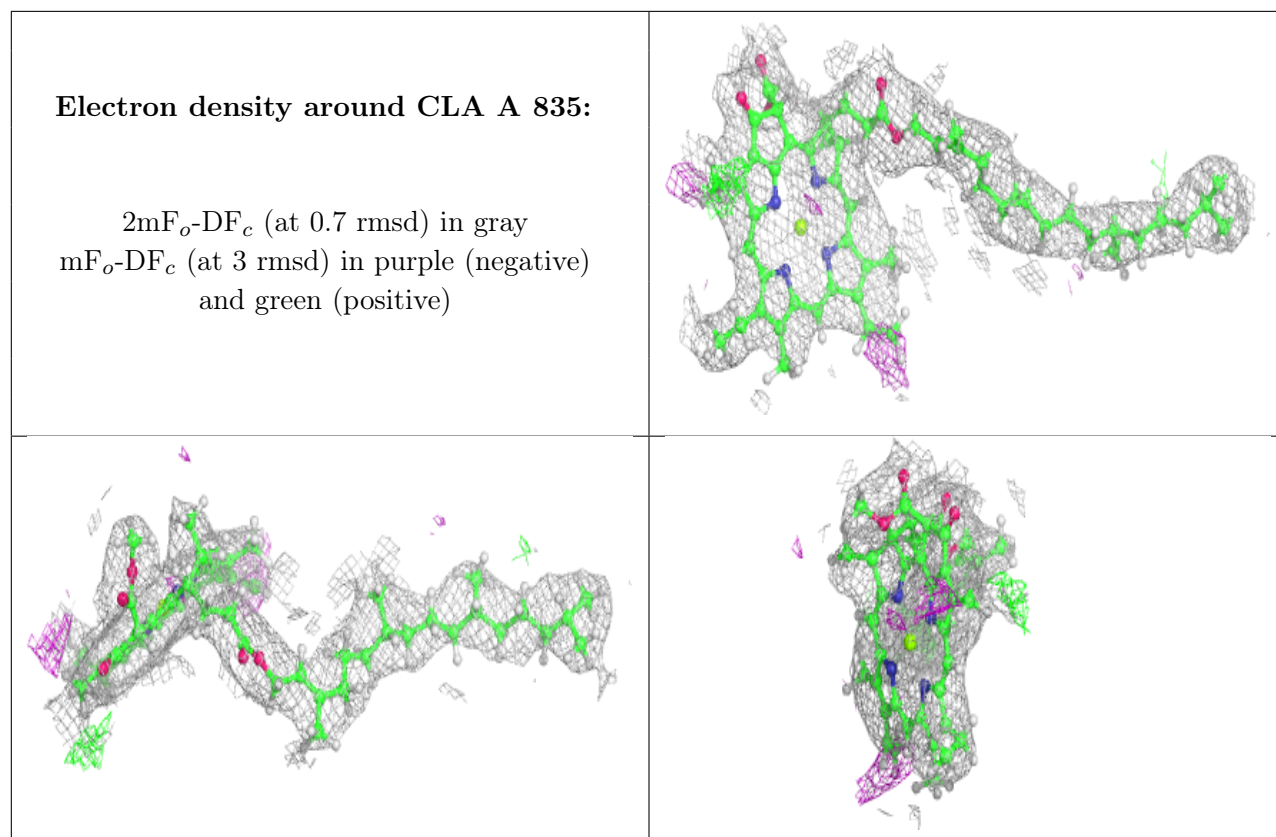
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 805:

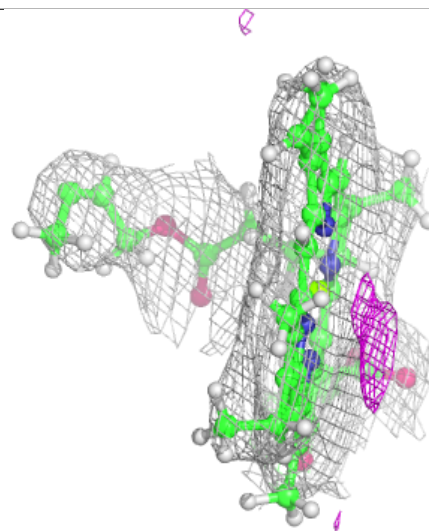
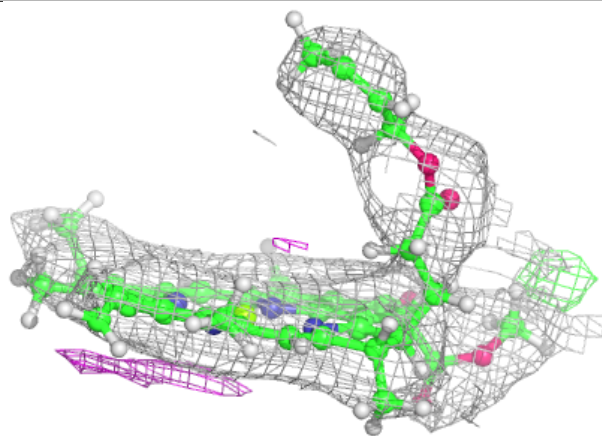
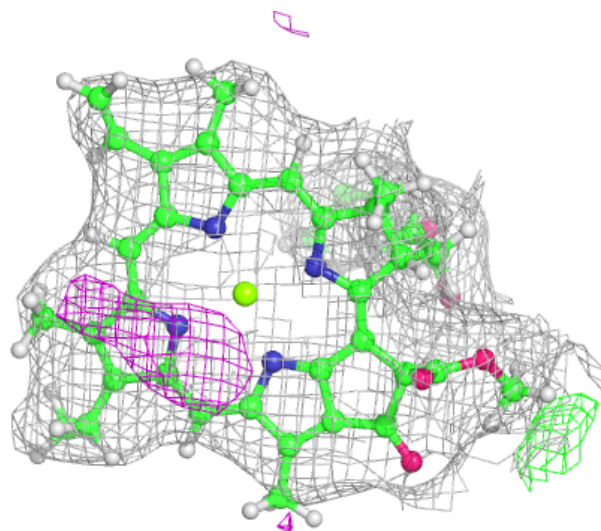
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





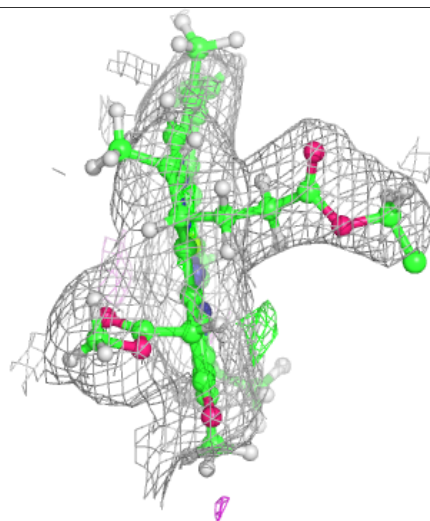
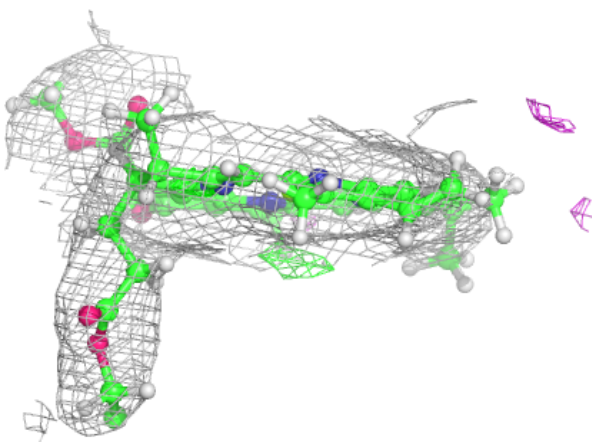
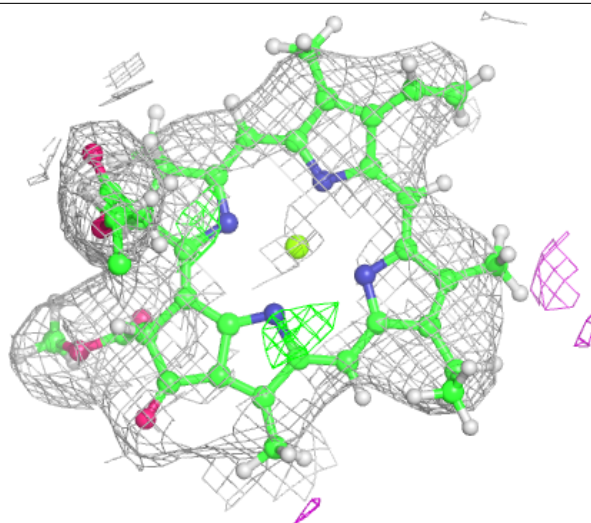
Electron density around CLA B 831:

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



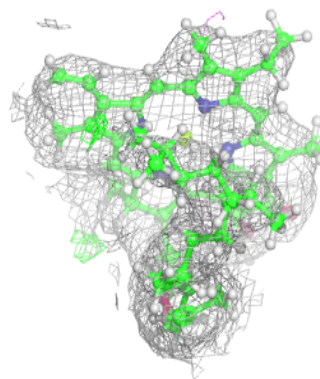
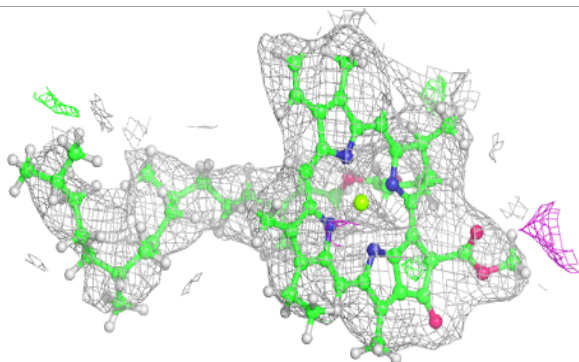
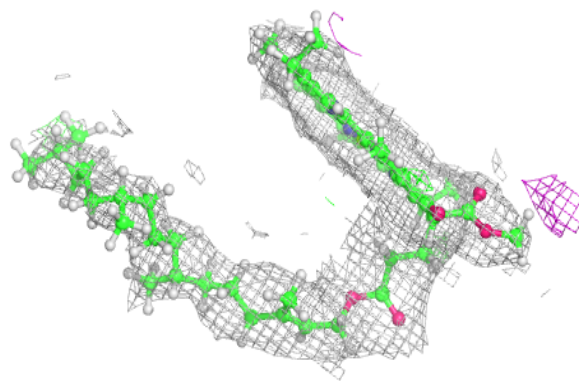
Electron density around CLA B 839:

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

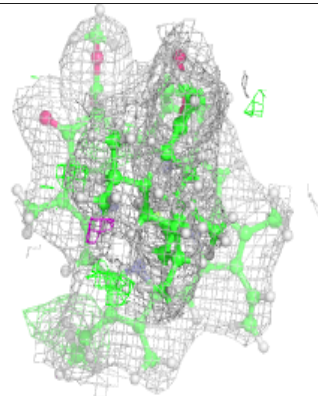
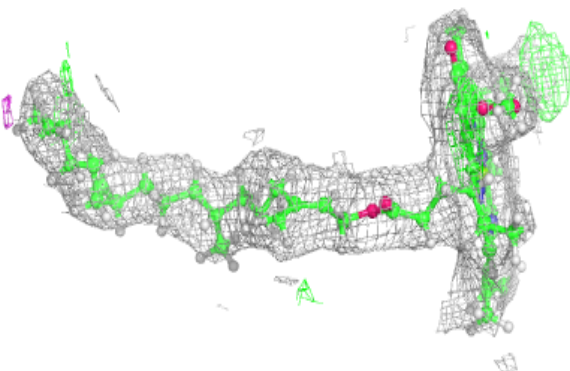
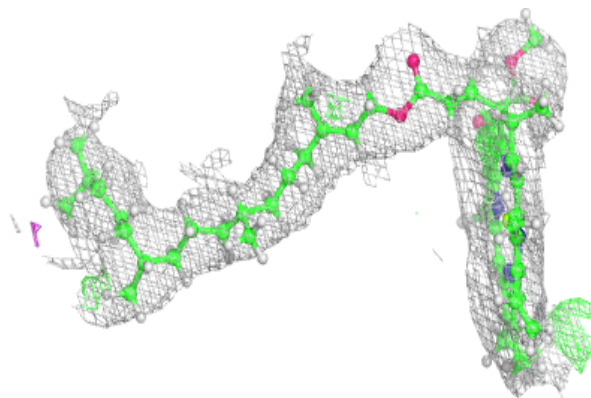


Electron density around CLA A 833:

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

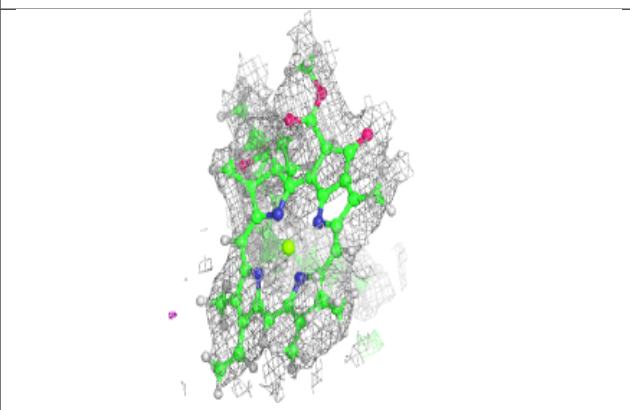
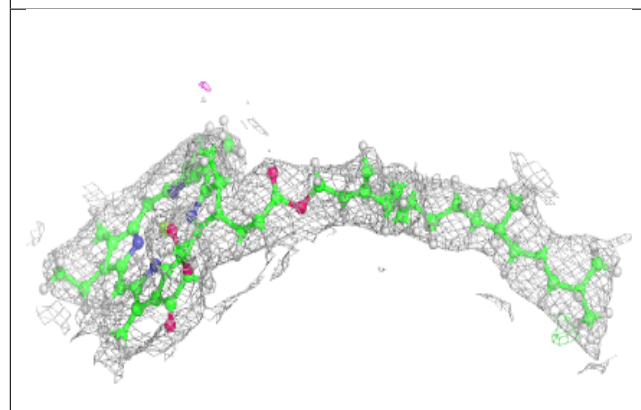
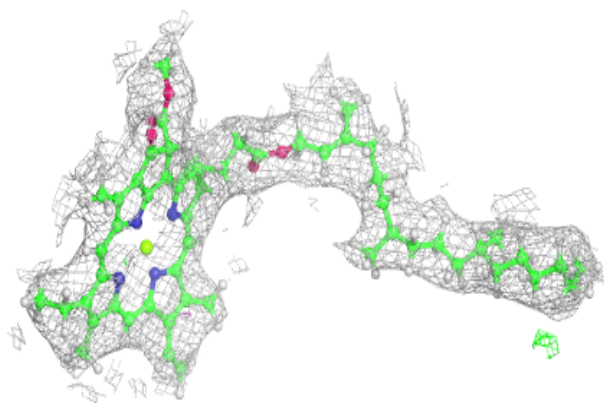
**Electron density around CLA B 841:**

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

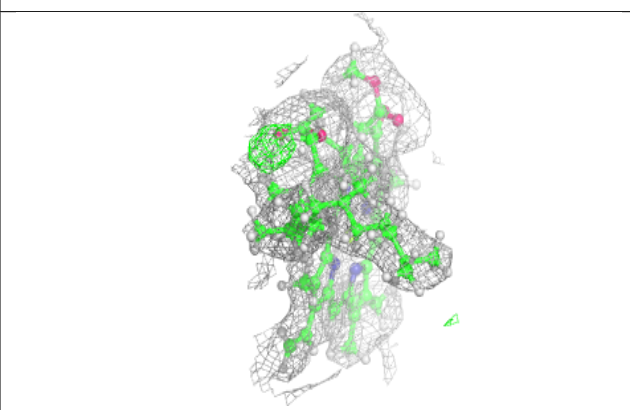
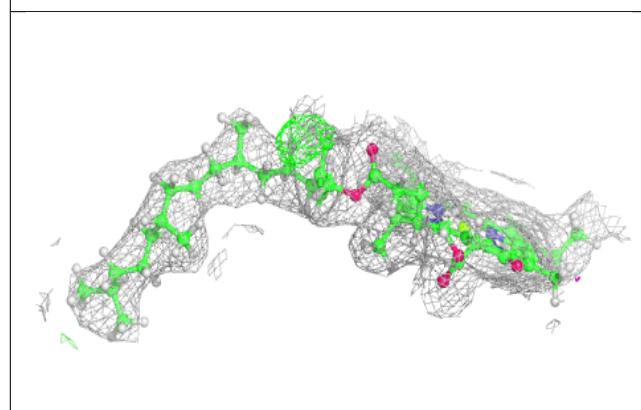
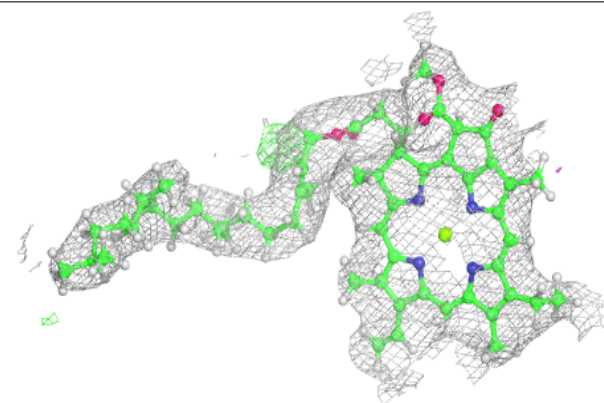


Electron density around CLA A 802:

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

**Electron density around CLA B 803:**

$2mF_o-DF_c$ (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.