



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 7, 2023 – 10:58 AM EDT

PDB ID : 4FE1
Title : Improving the Accuracy of Macromolecular Structure Refinement at 7 Å Resolution
Authors : Fromme, R.; Adams, P.D.; Fromme, P.; Levitt, M.; Schroeder, G.F.; Brunger, A.T.
Deposited on : 2012-05-29
Resolution : 4.92 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
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

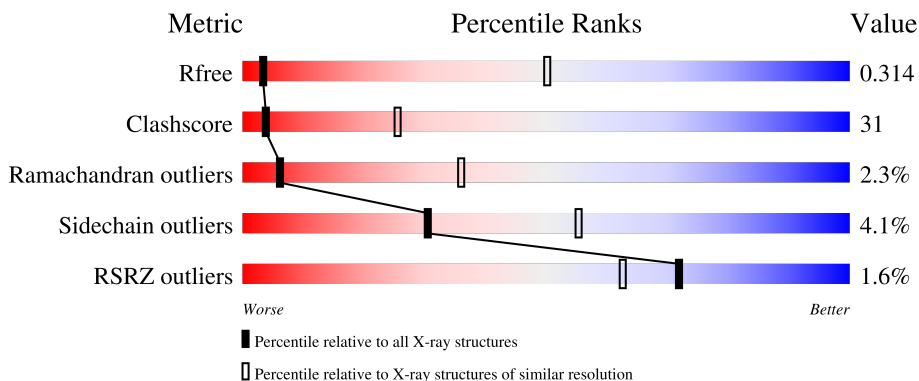
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.92 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.



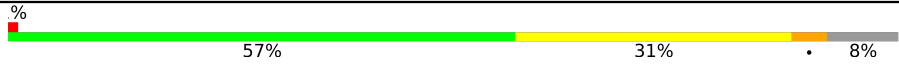

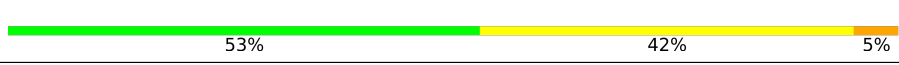

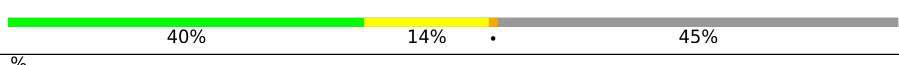
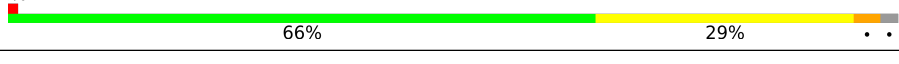
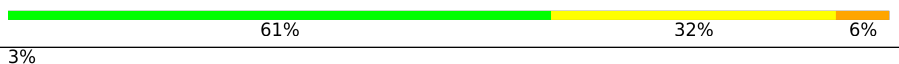

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1135 (6.02-3.80)
Clashscore	141614	1210 (6.02-3.80)
Ramachandran outliers	138981	1141 (6.02-3.80)
Sidechain outliers	138945	1118 (6.02-3.80)
RSRZ outliers	127900	1007 (6.10-3.72)

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	
2	B	740	
3	C	80	
4	D	138	

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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	CLA	A	801	X	-	-	-
13	CLA	A	802	X	-	-	-
13	CLA	A	803	X	-	X	-
13	CLA	A	804	X	-	-	-
13	CLA	A	805	X	-	-	-
13	CLA	A	806	X	-	-	-
13	CLA	A	807	X	-	-	-
13	CLA	A	808	X	-	-	-
13	CLA	A	810	X	-	-	X
13	CLA	A	811	X	-	-	-
13	CLA	A	812	X	-	-	X
13	CLA	A	813	X	-	-	-
13	CLA	A	814	X	-	-	-
13	CLA	A	815	X	-	-	X
13	CLA	A	816	-	-	-	X
13	CLA	A	817	X	-	-	-
13	CLA	A	818	X	-	-	-
13	CLA	A	819	X	-	-	-
13	CLA	A	820	X	-	-	-
13	CLA	A	821	X	-	-	-
13	CLA	A	822	X	-	-	-
13	CLA	A	823	X	-	-	-
13	CLA	A	824	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CLA	A	825	X	-	X	-
13	CLA	A	827	X	-	-	-
13	CLA	A	828	X	-	-	-
13	CLA	A	829	X	-	-	-
13	CLA	A	830	X	-	-	-
13	CLA	A	831	X	-	-	-
13	CLA	A	832	X	-	X	-
13	CLA	A	833	X	-	-	-
13	CLA	A	834	X	-	-	-
13	CLA	A	835	X	-	-	-
13	CLA	A	836	X	-	-	X
13	CLA	A	838	X	-	-	-
13	CLA	A	839	X	-	-	-
13	CLA	A	840	X	-	-	-
13	CLA	A	841	X	-	-	-
13	CLA	A	842	X	-	X	-
13	CLA	A	843	X	-	-	-
13	CLA	A	845	X	-	-	-
13	CLA	A	855	X	-	-	-
13	CLA	B	801	X	-	-	-
13	CLA	B	802	X	-	-	-
13	CLA	B	803	X	-	-	-
13	CLA	B	804	X	-	-	-
13	CLA	B	805	X	-	-	-
13	CLA	B	806	X	-	-	-
13	CLA	B	807	X	-	-	-
13	CLA	B	808	X	-	-	-
13	CLA	B	809	X	-	-	-
13	CLA	B	810	X	-	-	-
13	CLA	B	811	X	-	-	-
13	CLA	B	812	X	-	-	-
13	CLA	B	814	X	-	-	-
13	CLA	B	815	X	-	-	-
13	CLA	B	816	X	-	-	-
13	CLA	B	817	X	-	-	-
13	CLA	B	818	X	-	-	-
13	CLA	B	819	X	-	-	-
13	CLA	B	820	X	-	-	-
13	CLA	B	821	X	-	-	-
13	CLA	B	822	X	-	X	-
13	CLA	B	823	X	-	-	-
13	CLA	B	824	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
13	CLA	B	825	X	-	-	-
13	CLA	B	826	X	-	-	-
13	CLA	B	827	X	-	-	-
13	CLA	B	828	X	-	-	-
13	CLA	B	829	X	-	-	-
13	CLA	B	830	X	-	X	-
13	CLA	B	831	X	-	-	-
13	CLA	B	832	X	-	-	-
13	CLA	B	833	X	-	-	-
13	CLA	B	834	X	-	-	-
13	CLA	B	835	X	-	-	-
13	CLA	B	836	X	-	-	-
13	CLA	B	837	X	-	-	-
13	CLA	B	838	X	-	-	-
13	CLA	B	839	X	-	-	-
13	CLA	I	101	X	-	-	-
13	CLA	J	1101	X	-	-	-
13	CLA	J	1102	X	-	-	-
13	CLA	J	1103	X	-	-	-
13	CLA	L	1002	X	-	-	-
13	CLA	L	1003	X	-	-	-
13	CLA	L	1004	X	-	-	-
13	CLA	M	1201	X	-	-	-
13	CLA	M	1202	-	-	-	X
13	CLA	X	102	X	-	-	-
15	BCR	A	847	-	-	-	X
15	BCR	A	848	-	-	-	X
15	BCR	A	849	-	-	-	X
15	BCR	B	841	-	-	-	X

2 Entry composition [i](#)

There are 19 unique types of molecules in this entry. The entry contains 23997 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	740	5784	3794	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	N	O	S			
2	B	739	5879	3867	986	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	N	O	S			
3	C	80	598	367	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	N	O	S			
4	D	138	1075	682	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	N	O			
5	E	69	539	342	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	N	O	S			
6	F	141	1065	680	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	N	O	S			
7	I	38	301	208	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	N	O	S			
8	J	41	338	231	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	N	O			
9	K	46	222	130	46	46	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	L	151	1119	735	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	N	O	S			
11	M	31	241	161	36	43	1	0	0	0

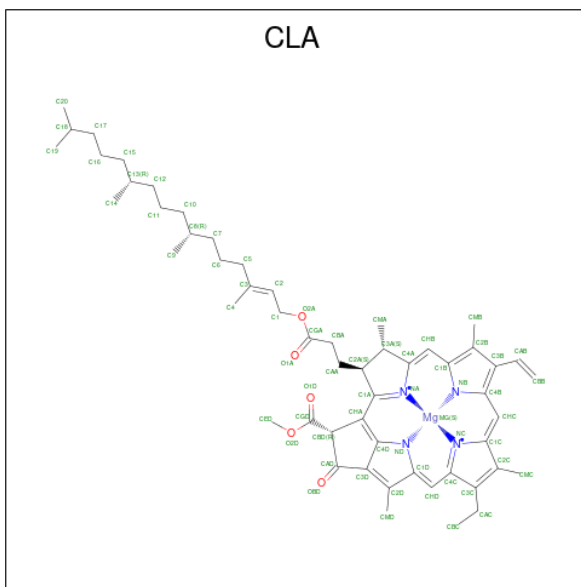
- Molecule 12 is a protein called Photosystem I 4.8K protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
12	X	29	233	164	34	35	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
X	32	ALA	-	expression tag	UNP Q8DKP6
X	33	ALA	-	expression tag	UNP Q8DKP6
X	34	ALA	-	expression tag	UNP Q8DKP6
X	35	ALA	-	expression tag	UNP Q8DKP6

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



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
13	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			59	49	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			51	41	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
13	A	1	Total	C	Mg	N	O	0	0
			45	35	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
13	A	1	65	55	1	4	5	0	0
13	A	1	54	44	1	4	5	0	0
13	A	1	60	50	1	4	5	0	0
13	A	1	45	35	1	4	5	0	0
13	A	1	45	35	1	4	5	0	0
13	A	1	49	39	1	4	5	0	0
13	A	1	54	44	1	4	5	0	0
13	A	1	54	44	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	61	51	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	49	39	1	4	5	0	0
13	A	1	51	41	1	4	5	0	0
13	A	1	59	49	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	50	40	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	54	44	1	4	5	0	0
13	A	1	45	35	1	4	5	0	0
13	A	1	51	41	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	47	37	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	51	41	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	65	55	1	4	5	0	0
13	A	1	41	33	1	4	3	0	0
13	A	1	52	42	1	4	5	0	0
13	A	1	45	35	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	Mg	N	O		
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	45	35	1	4	5	0	0
13	B	1	45	35	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	45	35	1	4	5	0	0
13	B	1	55	45	1	4	5	0	0
13	B	1	59	49	1	4	5	0	0
13	B	1	60	50	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	47	37	1	4	5	0	0
13	B	1	45	35	1	4	5	0	0
13	B	1	55	45	1	4	5	0	0
13	B	1	45	35	1	4	5	0	0
13	B	1	54	44	1	4	5	0	0
13	B	1	46	36	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0

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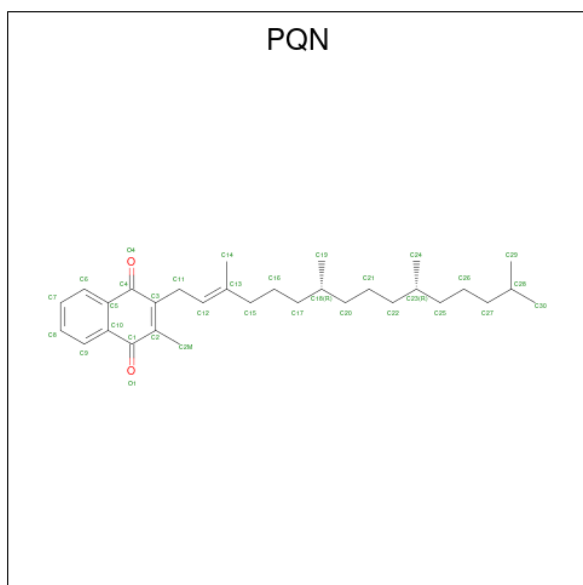
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
13	B	1	45	35	1	4	5	0	0
13	B	1	49	39	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	58	48	1	4	5	0	0
13	B	1	45	35	1	4	5	0	0
13	B	1	45	35	1	4	5	0	0
13	B	1	45	35	1	4	5	0	0
13	B	1	60	50	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	47	37	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	B	1	65	55	1	4	5	0	0
13	F	1	45	35	1	4	5	0	0
13	I	1	65	55	1	4	5	0	0
13	J	1	65	55	1	4	5	0	0
13	J	1	45	35	1	4	5	0	0
13	J	1	37	31	1	4	1	0	0
13	L	1	65	55	1	4	5	0	0
13	L	1	65	55	1	4	5	0	0
13	L	1	65	55	1	4	5	0	0
13	M	1	54	44	1	4	5	0	0

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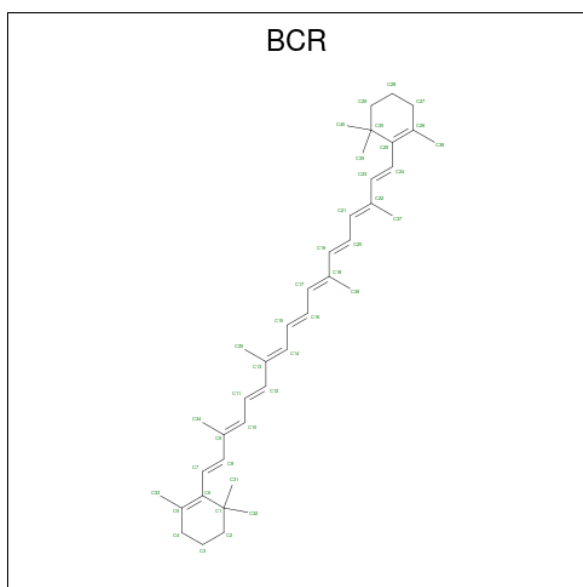
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
13	M	1	Total	C	Mg	N	O	0	0
			45	35	1	4	5		
13	X	1	Total	C	Mg	N	O	0	0
			45	35	1	4	5		

- Molecule 14 is PHYLLOQUINONE (three-letter code: PQN) (formula: C₃₁H₄₆O₂).



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

- Molecule 15 is BETA-CAROTENE (three-letter code: BCR) (formula: C₄₀H₅₆).



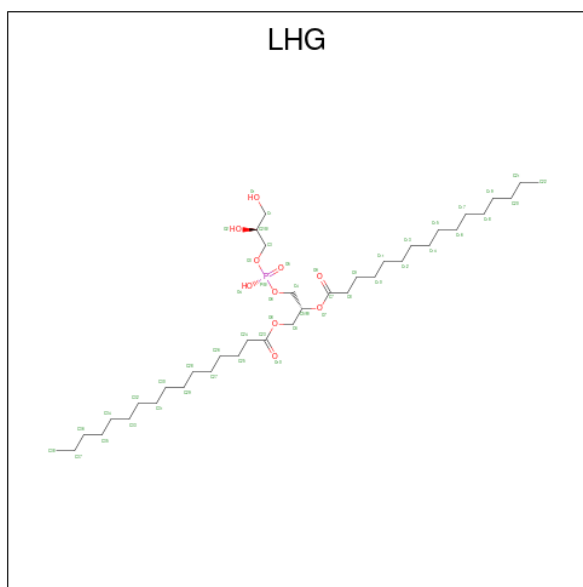
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
15	A	1	Total C 40 40	0	0
15	A	1	Total C 40 40	0	0
15	A	1	Total C 40 40	0	0
15	A	1	Total C 40 40	0	0
15	A	1	Total C 40 40	0	0
15	A	1	Total C 40 40	0	0
15	B	1	Total C 40 40	0	0
15	B	1	Total C 40 40	0	0
15	B	1	Total C 40 40	0	0
15	B	1	Total C 25 25	0	0
15	B	1	Total C 40 40	0	0
15	B	1	Total C 40 40	0	0
15	B	1	Total C 40 40	0	0
15	B	1	Total C 40 40	0	0

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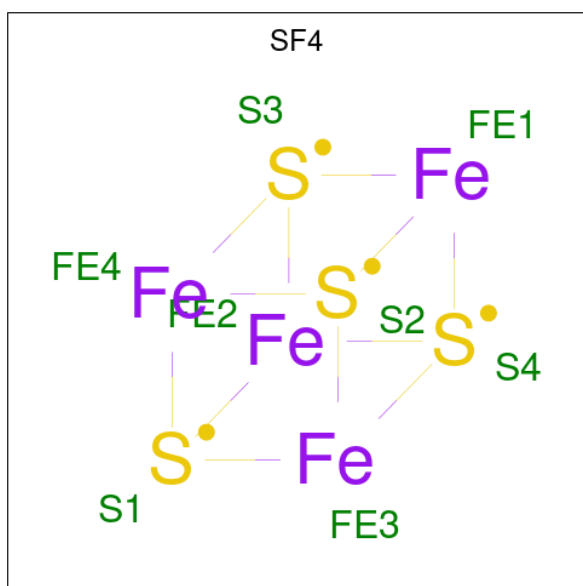
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
15	B	1	Total C 40 40	0	0
15	F	1	Total C 40 40	0	0
15	I	1	Total C 40 40	0	0
15	J	1	Total C 40 40	0	0
15	J	1	Total C 40 40	0	0
15	L	1	Total C 40 40	0	0
15	L	1	Total C 40 40	0	0
15	M	1	Total C 40 40	0	0

- Molecule 16 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: C₃₈H₇₅O₁₀P).



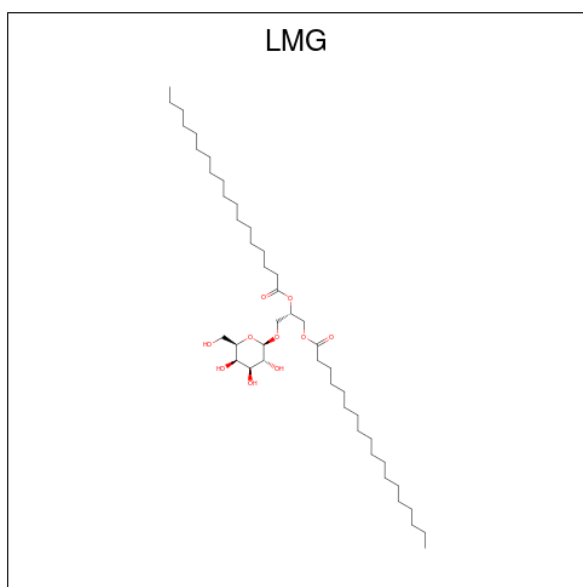
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
16	A	1	Total C O P 49 38 10 1	0	0
16	A	1	Total C O P 27 16 10 1	0	0
16	X	1	Total C O P 23 12 10 1	0	0

- Molecule 17 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe₄S₄).



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

- Molecule 18 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C₄₅H₈₆O₁₀).



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

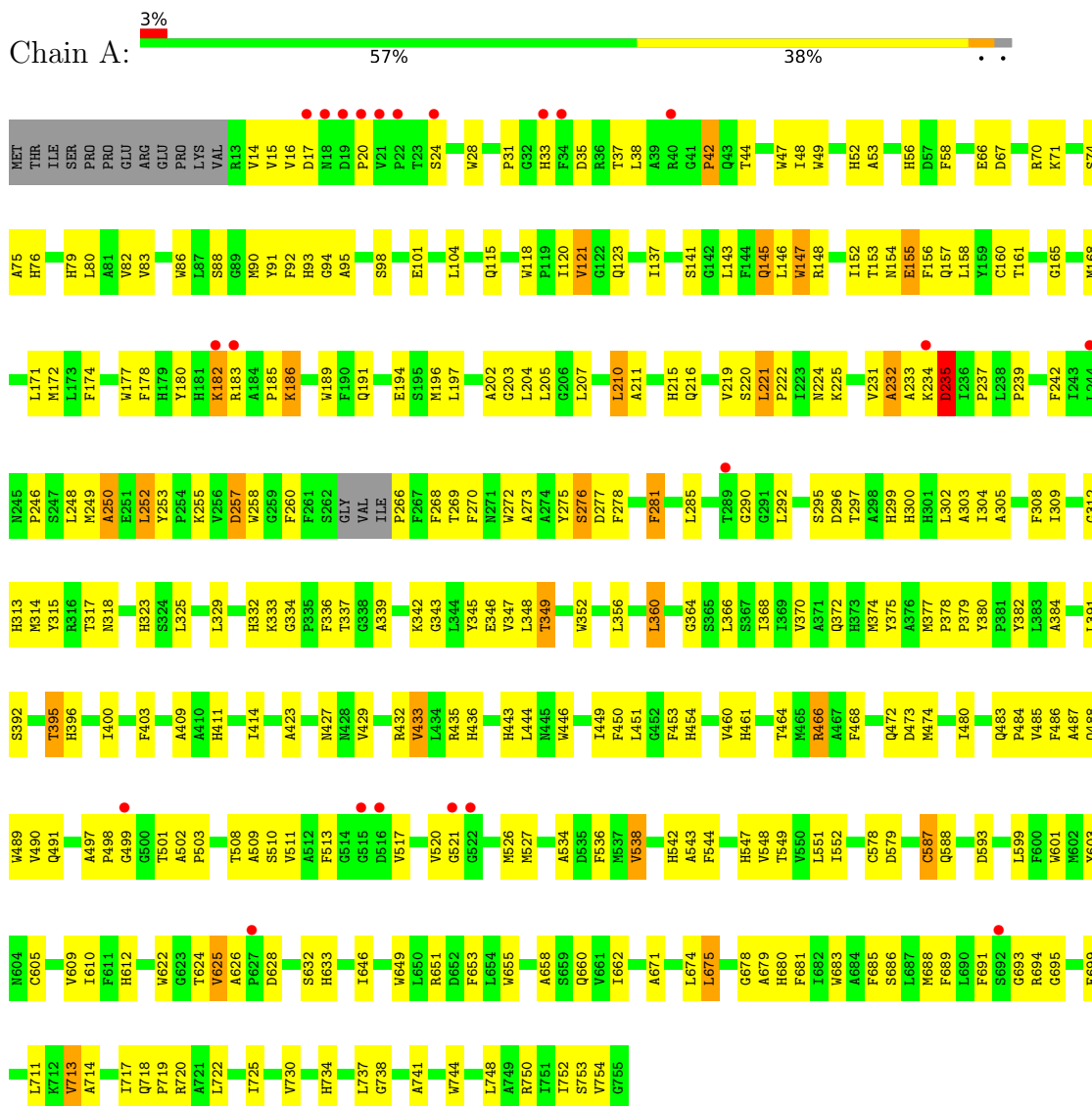
- Molecule 19 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
19	L	1	Total	Ca	0	0
			1	1		

3 Residue-property plots

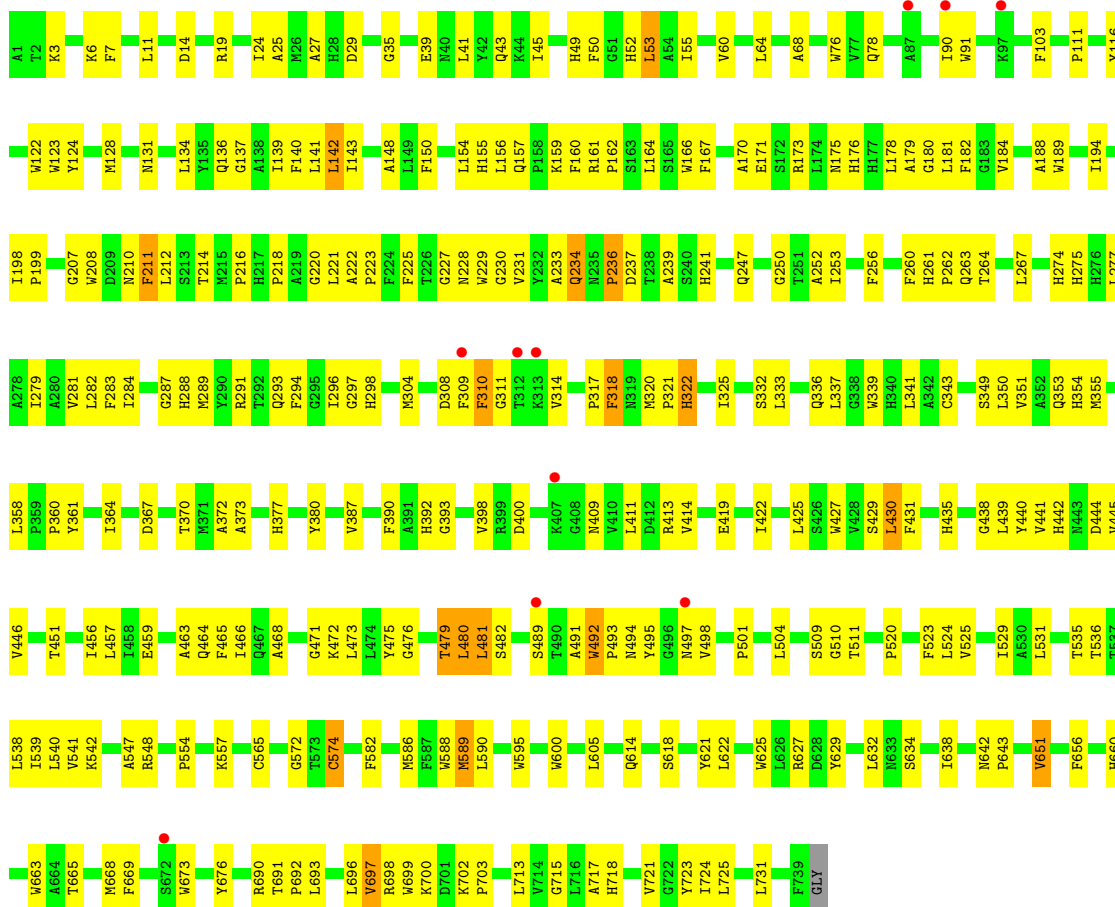
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

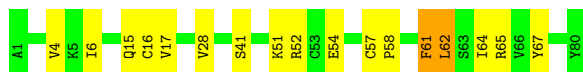
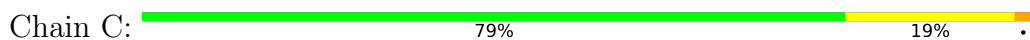


- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

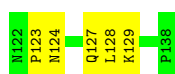
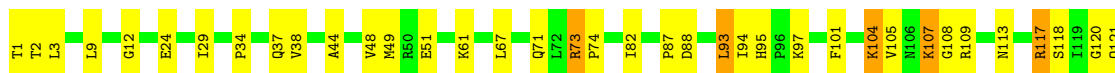




• Molecule 3: Photosystem I iron-sulfur center

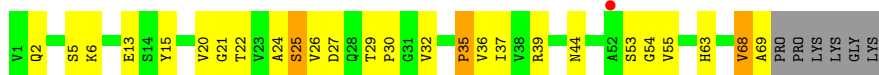


• Molecule 4: Photosystem I reaction center subunit II



• 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



LEU

- Molecule 10: Photosystem I reaction center subunit XI



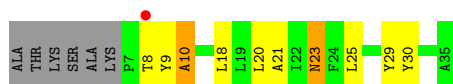
- Molecule 11: Photosystem I reaction center subunit XII

Chain M:  61% 32% 6%



● Molecule 12: Photosystem I 4.8K protein

Chain X:  3% 54% 23% 6% 17%



4 Data and refinement statistics

Property	Value	Source
Space group	P 63	Depositor
Cell constants a, b, c, α , β , γ	281.00Å 281.00Å 165.20Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	97.97 – 4.92 97.97 – 4.92	Depositor EDS
% Data completeness (in resolution range)	96.4 (97.97-4.92) 96.3 (97.97-4.92)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	9.35 (at 4.87Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.8_1058)	Depositor
R, R_{free}	0.274 , 0.315 0.274 , 0.314	Depositor DCC
R_{free} test set	1534 reflections (4.66%)	wwPDB-VP
Wilson B-factor (Å ²)	30.8	Xtrriage
Anisotropy	0.569	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 23.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.30$, $\langle L^2 \rangle = 0.13$	Xtrriage
Estimated twinning fraction	0.175 for h,-h-k,-l	Xtrriage
F_o, F_c correlation	0.69	EDS
Total number of atoms	23997	wwPDB-VP
Average B, all atoms (Å ²)	87.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.22% 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: LMG, LHG, CLA, PQN, CA, BCR, SF4

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	0.38	0/5983	0.69	3/8158 (0.0%)
2	B	0.40	0/6096	0.68	2/8332 (0.0%)
3	C	0.39	0/608	0.76	0/824
4	D	0.35	0/1101	0.78	0/1492
5	E	0.42	0/551	0.85	1/750 (0.1%)
6	F	0.41	0/1087	0.76	0/1476
7	I	0.38	0/312	0.80	1/425 (0.2%)
8	J	0.40	0/350	0.80	1/477 (0.2%)
9	K	0.40	0/220	0.91	0/300
10	L	0.39	0/1148	0.79	2/1558 (0.1%)
11	M	0.47	0/244	0.91	1/332 (0.3%)
12	X	0.41	0/242	0.66	0/332
All	All	0.39	0/17942	0.72	11/24456 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
2	B	0	1
4	D	0	1
All	All	0	3

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	257	ASP	CB-CG-OD2	-8.44	110.71	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	257	ASP	CB-CG-OD1	8.11	125.60	118.30
10	L	76	LEU	CB-CG-CD2	7.19	123.22	111.00
7	I	26	VAL	CG1-CB-CG2	6.87	121.90	110.90
10	L	48	LEU	CB-CG-CD2	6.78	122.52	111.00
2	B	289	MET	CG-SD-CE	-5.94	90.70	100.20
11	M	17	LEU	CA-CB-CG	5.80	128.64	115.30
8	J	41	LEU	CA-CB-CG	5.68	128.36	115.30
1	A	521	GLY	N-CA-C	-5.52	99.29	113.10
5	E	39	ARG	NE-CZ-NH1	-5.37	117.61	120.30
2	B	78	GLN	CA-CB-CG	5.04	124.48	113.40

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	337	THR	Mainchain
2	B	35	GLY	Mainchain
4	D	88	ASP	Mainchain

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	0	5639	350	0
2	B	5879	0	5632	345	0
3	C	598	0	580	15	0
4	D	1075	0	1077	30	0
5	E	539	0	528	13	0
6	F	1065	0	1077	51	0
7	I	301	0	306	23	0
8	J	338	0	347	23	0
9	K	222	0	111	9	0
10	L	1119	0	1125	50	1
11	M	241	0	264	22	0
12	X	233	0	231	11	0
13	A	2667	0	2635	478	0
13	B	2230	0	2182	427	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	F	45	0	33	5	0
13	I	65	0	72	15	0
13	J	147	0	129	17	0
13	L	195	0	216	28	0
13	M	99	0	81	18	0
13	X	45	0	33	5	0
14	A	33	0	46	7	0
14	B	33	0	46	7	0
15	A	240	0	336	39	0
15	B	345	0	481	83	0
15	F	40	0	56	13	0
15	I	40	0	56	11	0
15	J	80	0	112	11	0
15	L	80	0	112	16	0
15	M	40	0	56	13	0
16	A	76	0	98	12	0
16	X	23	0	16	1	0
17	A	8	0	0	0	0
17	C	16	0	0	0	0
18	B	55	0	86	18	0
19	L	1	0	0	0	0
All	All	23997	0	23799	1470	1

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 31.

All (1470) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:806:CLA:H12	7:I:18:VAL:HG21	1.35	1.08
13:A:803:CLA:H151	13:A:842:CLA:HAB	1.36	1.08
13:B:831:CLA:HED1	8:J:36:LEU:H	1.06	1.07
13:B:808:CLA:HMA1	13:I:101:CLA:HAB	1.31	1.06
13:B:817:CLA:HBD	13:B:821:CLA:HED2	1.37	1.06
13:A:828:CLA:H51	15:A:852:BCR:H312	1.33	1.05
2:B:318:PHE:HB2	13:B:821:CLA:HMA1	1.39	1.05
15:A:852:BCR:H362	13:B:802:CLA:H42	1.37	1.05
14:A:846:PQN:H172	15:B:846:BCR:H382	1.40	1.01
2:B:425:LEU:HG	13:B:837:CLA:HBB1	1.44	0.99
1:A:487:ALA:HB2	13:A:838:CLA:HED3	1.43	0.99
13:B:807:CLA:H2	13:B:807:CLA:H13	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:153:PHE:O	10:L:154:ASN:HB2	1.65	0.96
13:B:806:CLA:H2	15:I:102:BCR:HC42	1.48	0.93
13:B:831:CLA:HED1	8:J:36:LEU:N	1.83	0.93
1:A:356:LEU:HD11	13:A:830:CLA:HBB1	1.49	0.93
8:J:31:ARG:HD3	15:J:1105:BCR:H312	1.47	0.93
15:L:1005:BCR:H403	15:L:1005:BCR:H23C	1.51	0.93
13:A:823:CLA:HMA1	13:A:845:CLA:HAC2	1.48	0.92
13:A:818:CLA:O1D	13:A:818:CLA:HAA2	1.67	0.92
1:A:318:ASN:H	13:A:820:CLA:HED1	1.33	0.92
13:A:821:CLA:H2	13:A:825:CLA:HBB1	1.49	0.92
9:K:32:TYR:HA	9:K:35:GLN:H	1.35	0.91
2:B:60:VAL:HG21	13:B:826:CLA:H43	1.53	0.91
1:A:52:HIS:HB2	16:A:853:LHG:H112	1.52	0.90
13:F:1301:CLA:O1D	13:F:1301:CLA:HAA2	1.71	0.90
10:L:61:PRO:HB3	13:L:1004:CLA:HBB1	1.54	0.89
13:A:821:CLA:HMB2	13:A:825:CLA:HMA3	1.55	0.88
2:B:492:TRP:HZ3	13:B:834:CLA:HMD3	1.38	0.88
13:B:805:CLA:H71	13:B:827:CLA:H92	1.56	0.88
13:A:803:CLA:H18	13:A:842:CLA:H52	1.54	0.88
1:A:392:SER:HB3	13:A:828:CLA:HMA1	1.53	0.87
13:B:829:CLA:HAA2	13:B:829:CLA:CGD	2.04	0.87
13:A:832:CLA:H12	2:B:692:PRO:HG2	1.58	0.86
2:B:529:ILE:HG21	13:B:835:CLA:HAB	1.59	0.85
1:A:333:LYS:H	13:A:845:CLA:HBC2	1.39	0.85
2:B:136:GLN:NE2	13:B:812:CLA:O1D	2.09	0.85
10:L:33:ASN:HB3	13:L:1002:CLA:HAC1	1.57	0.85
1:A:508:THR:HG22	1:A:510:SER:H	1.41	0.85
13:L:1003:CLA:O1D	13:L:1003:CLA:HAA2	1.76	0.84
13:A:840:CLA:H11	13:B:830:CLA:HED3	1.58	0.84
1:A:76:HIS:HB3	13:A:813:CLA:HED3	1.60	0.83
4:D:117:ARG:HG3	4:D:121:GLN:HB2	1.60	0.83
13:A:842:CLA:H72	13:J:1101:CLA:H12	1.60	0.83
13:L:1002:CLA:CGD	13:L:1002:CLA:HAA2	2.08	0.83
13:A:804:CLA:HAA2	13:A:804:CLA:O1D	1.80	0.82
13:I:101:CLA:HAA2	13:I:101:CLA:CGD	2.09	0.82
13:A:803:CLA:HED1	2:B:429:SER:HB2	1.61	0.82
8:J:12:PRO:HB2	15:J:1105:BCR:H391	1.59	0.82
1:A:118:TRP:CE3	13:A:809:CLA:H2A	2.15	0.82
13:B:804:CLA:HED2	13:B:804:CLA:H2	1.59	0.82
2:B:337:LEU:HD11	13:B:827:CLA:HBB1	1.62	0.82
13:B:806:CLA:HED3	7:I:11:PRO:HB3	1.59	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:832:CLA:O1D	13:A:832:CLA:HAA2	1.79	0.81
10:L:98:LEU:O	10:L:102:GLN:NE2	2.13	0.81
13:B:821:CLA:HAA2	13:B:821:CLA:CGD	2.10	0.81
13:B:831:CLA:H122	6:F:69:LEU:HD11	1.62	0.81
1:A:202:ALA:HB2	1:A:312:GLY:HA3	1.62	0.80
13:A:814:CLA:HAA2	13:A:814:CLA:CGD	2.10	0.80
13:B:804:CLA:HMB1	13:B:804:CLA:HBB1	1.61	0.80
1:A:308:PHE:HE2	13:A:821:CLA:HAB	1.47	0.80
13:B:807:CLA:H162	13:B:825:CLA:H203	1.64	0.80
2:B:353:GLN:HG3	13:B:823:CLA:HED3	1.64	0.80
13:A:833:CLA:HMA1	15:I:102:BCR:H292	1.62	0.79
1:A:141:SER:OG	13:A:808:CLA:HED3	1.82	0.79
2:B:373:ALA:HB1	13:B:825:CLA:HMA1	1.64	0.79
13:L:1003:CLA:HAA2	13:L:1003:CLA:CGD	2.12	0.79
13:A:826:CLA:HMA2	13:A:827:CLA:HED3	1.63	0.79
2:B:181:LEU:HD11	13:B:811:CLA:H12	1.64	0.78
13:B:803:CLA:HAA2	13:B:803:CLA:CGD	2.13	0.78
1:A:35:ASP:OD2	1:A:37:THR:OG1	2.02	0.78
1:A:444:LEU:HB2	13:A:839:CLA:HBB1	1.65	0.78
2:B:181:LEU:HG	13:B:811:CLA:H43	1.63	0.78
13:B:824:CLA:HAA2	13:B:824:CLA:CGD	2.13	0.78
13:A:805:CLA:HED3	13:A:825:CLA:H12	1.65	0.78
13:A:817:CLA:CGD	13:A:817:CLA:HAA2	2.13	0.78
13:B:814:CLA:HAA2	13:B:814:CLA:CGD	2.13	0.78
13:B:830:CLA:H152	15:F:1302:BCR:H353	1.65	0.78
13:A:806:CLA:H42	13:A:830:CLA:H52	1.65	0.78
13:A:813:CLA:HBD	13:A:825:CLA:C6	2.13	0.77
13:A:815:CLA:CGD	13:A:815:CLA:HAA2	2.14	0.77
13:A:819:CLA:HAB	13:A:819:CLA:H8	1.65	0.77
13:A:837:CLA:HAA2	13:A:837:CLA:O2D	1.85	0.77
13:B:809:CLA:CGD	13:B:809:CLA:HAA2	2.14	0.77
13:B:817:CLA:CBP	13:B:821:CLA:HED2	2.12	0.77
15:L:1006:BCR:HC8	15:L:1006:BCR:H331	1.65	0.77
1:A:118:TRP:CZ3	13:A:809:CLA:H2A	2.20	0.77
13:A:813:CLA:HBD	13:A:825:CLA:H61	1.64	0.77
13:B:801:CLA:HAA2	13:B:801:CLA:CGD	2.14	0.77
1:A:549:THR:HG21	13:A:826:CLA:HAC2	1.65	0.77
2:B:282:LEU:HD12	13:B:817:CLA:HMC1	1.67	0.77
1:A:675:LEU:HD11	13:A:828:CLA:H143	1.65	0.76
13:B:822:CLA:HBB1	13:B:822:CLA:HMB1	1.66	0.76
15:A:852:BCR:H362	13:B:802:CLA:C4	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:829:CLA:HAA2	13:A:829:CLA:CGD	2.15	0.76
6:F:88:VAL:HG12	6:F:94:ALA:HA	1.68	0.76
13:B:805:CLA:H151	13:B:826:CLA:HBB2	1.67	0.76
13:A:832:CLA:H72	13:L:1003:CLA:H61	1.68	0.76
13:B:830:CLA:CBB	13:B:831:CLA:HMB2	2.15	0.76
13:L:1004:CLA:HED3	13:L:1004:CLA:H62	1.68	0.76
13:A:826:CLA:O1D	13:A:826:CLA:HAA2	1.86	0.76
15:A:852:BCR:H381	13:B:830:CLA:HMA1	1.66	0.76
13:F:1301:CLA:HMB3	8:J:26:LEU:HD11	1.66	0.76
13:B:823:CLA:HBA1	13:B:824:CLA:HED3	1.68	0.75
13:B:826:CLA:O2D	13:B:826:CLA:HAA2	1.87	0.75
13:A:827:CLA:HAA2	13:A:827:CLA:CGD	2.15	0.75
2:B:343:CYS:HB3	13:B:822:CLA:H42	1.68	0.75
13:B:811:CLA:H202	13:B:826:CLA:HBD	1.68	0.75
13:A:810:CLA:HMB2	13:A:812:CLA:HMD1	1.67	0.75
2:B:122:TRP:HH2	15:B:843:BCR:H391	1.51	0.75
13:A:841:CLA:HAA2	13:A:841:CLA:CGD	2.16	0.74
13:B:835:CLA:CGD	13:B:835:CLA:HAA2	2.16	0.74
13:A:813:CLA:H121	15:A:849:BCR:H353	1.68	0.74
1:A:118:TRP:CZ2	13:A:807:CLA:HED3	2.23	0.74
1:A:501:THR:O	13:A:836:CLA:ND	2.20	0.74
2:B:64:LEU:HD11	15:B:843:BCR:H271	1.67	0.74
1:A:366:LEU:HD11	13:A:819:CLA:H72	1.70	0.74
2:B:321:PRO:HB2	2:B:409:ASN:HA	1.68	0.74
4:D:123:PRO:HB2	4:D:128:LEU:HD11	1.69	0.74
13:A:838:CLA:HBB1	13:A:839:CLA:HMD3	1.69	0.74
13:J:1101:CLA:HAA2	13:J:1101:CLA:CGD	2.16	0.74
1:A:56:HIS:CE1	13:A:806:CLA:HED1	2.23	0.74
13:B:832:CLA:HAA2	13:B:832:CLA:CGD	2.17	0.74
13:B:835:CLA:HAA2	13:B:835:CLA:O1D	1.87	0.74
13:L:1002:CLA:H202	13:L:1002:CLA:H2	1.69	0.73
2:B:221:LEU:HD22	13:B:813:CLA:HBD	1.69	0.73
2:B:439:LEU:HD11	15:B:850:BCR:H342	1.70	0.73
13:A:830:CLA:HAA2	13:A:830:CLA:CGD	2.19	0.73
2:B:49:HIS:HB3	13:B:811:CLA:HED1	1.69	0.73
2:B:227:GLY:O	13:B:814:CLA:H43	1.88	0.73
13:A:855:CLA:HAA2	13:A:855:CLA:CGD	2.18	0.73
2:B:281:VAL:HG22	15:B:841:BCR:H352	1.70	0.73
2:B:414:VAL:HG11	15:B:844:BCR:H401	1.69	0.73
13:A:824:CLA:CGD	13:A:824:CLA:HAA2	2.19	0.73
15:B:849:BCR:C21	13:L:1003:CLA:HAB	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:TRP:HE3	16:A:853:LHG:H111	1.53	0.72
13:A:805:CLA:HAA2	13:A:805:CLA:CGD	2.19	0.72
13:B:819:CLA:CGD	13:B:819:CLA:HAA2	2.20	0.72
13:A:842:CLA:HED1	16:A:853:LHG:H102	1.71	0.72
1:A:203:GLY:HA2	13:A:820:CLA:HBC1	1.72	0.72
1:A:453:PHE:O	13:A:834:CLA:HBB2	1.89	0.71
13:A:810:CLA:HAA2	13:A:810:CLA:CGD	2.20	0.71
13:A:816:CLA:CGD	13:A:816:CLA:HAA2	2.20	0.71
13:A:818:CLA:HBD	13:A:827:CLA:HAB	1.72	0.71
13:A:833:CLA:C2B	13:A:834:CLA:HMB2	2.19	0.71
13:B:821:CLA:HAA2	13:B:821:CLA:O2D	1.90	0.71
13:B:837:CLA:CGD	13:B:837:CLA:HAA2	2.20	0.71
1:A:255:LYS:HB2	1:A:277:ASP:OD2	1.90	0.71
13:A:831:CLA:HED2	10:L:5:VAL:HG11	1.71	0.71
13:B:823:CLA:HED2	13:B:824:CLA:CAD	2.21	0.71
13:B:839:CLA:CGD	13:B:839:CLA:HAA2	2.20	0.71
13:A:845:CLA:CGD	13:A:845:CLA:HAA2	2.21	0.71
2:B:55:ILE:HD11	15:M:1203:BCR:HC7	1.72	0.71
4:D:29:ILE:HD13	4:D:67:LEU:HD23	1.72	0.71
2:B:179:ALA:HB2	2:B:287:GLY:HA3	1.71	0.71
2:B:445:VAL:HG21	13:B:831:CLA:HAC2	1.73	0.71
13:A:832:CLA:O1D	10:L:22:SER:HB3	1.91	0.70
13:A:823:CLA:HAA2	13:A:823:CLA:CGD	2.21	0.70
2:B:294:PHE:HB2	13:B:818:CLA:HED3	1.73	0.70
13:B:830:CLA:HHC	13:B:830:CLA:HBB1	1.72	0.70
13:A:822:CLA:HED3	9:K:37:ARG:N	2.07	0.70
13:J:1102:CLA:HAA2	13:J:1102:CLA:CGD	2.21	0.70
2:B:173:ARG:HB3	13:B:822:CLA:HMD1	1.72	0.70
2:B:622:LEU:HD12	13:B:802:CLA:H11	1.72	0.70
1:A:542:HIS:ND1	13:A:837:CLA:HAB	2.06	0.70
13:B:816:CLA:HMB2	13:B:816:CLA:H62	1.72	0.70
13:B:811:CLA:HAA2	13:B:811:CLA:CGD	2.21	0.70
13:A:818:CLA:H41	13:A:835:CLA:HED3	1.72	0.70
13:B:829:CLA:CGA	6:F:130:THR:HG21	2.22	0.70
6:F:91:SER:OG	6:F:92:GLY:N	2.24	0.70
1:A:204:LEU:HD11	13:A:829:CLA:H141	1.74	0.69
1:A:486:PHE:HB3	13:A:837:CLA:H11	1.75	0.69
13:B:812:CLA:HAA2	13:B:812:CLA:CGD	2.22	0.69
13:A:819:CLA:H3A	13:A:819:CLA:O2A	1.91	0.69
13:B:823:CLA:HMA2	13:B:824:CLA:HED3	1.74	0.69
1:A:646:ILE:HG21	13:A:802:CLA:HBA2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:817:CLA:HBD	13:B:821:CLA:CED	2.19	0.69
13:B:838:CLA:HAA2	13:B:838:CLA:CGD	2.23	0.69
1:A:216:GLN:HA	1:A:220:SER:HB3	1.75	0.68
13:B:828:CLA:HMB2	13:B:829:CLA:C2D	2.24	0.68
1:A:177:TRP:HB2	13:A:811:CLA:HMC3	1.76	0.68
1:A:432:ARG:NH2	13:A:831:CLA:HED3	2.09	0.68
13:B:817:CLA:CGD	13:B:821:CLA:HED2	2.23	0.68
2:B:318:PHE:HB2	13:B:821:CLA:CMA	2.21	0.68
2:B:665:THR:HA	13:B:803:CLA:HAB	1.75	0.68
1:A:270:PHE:CE1	13:A:844:CLA:HMD2	2.29	0.68
13:A:823:CLA:HMA1	13:A:845:CLA:CAC	2.23	0.68
13:A:822:CLA:HAA2	13:A:822:CLA:CGD	2.23	0.68
13:A:825:CLA:HED2	13:A:829:CLA:H193	1.76	0.68
13:A:802:CLA:H152	15:B:847:BCR:H12C	1.75	0.68
13:B:804:CLA:O1D	13:B:804:CLA:H101	1.94	0.68
13:A:808:CLA:HAB	13:A:828:CLA:H13	1.76	0.67
13:A:803:CLA:HED1	2:B:429:SER:CB	2.25	0.67
2:B:651:VAL:HG11	13:B:807:CLA:HAC1	1.76	0.67
13:A:840:CLA:H162	13:A:841:CLA:HED1	1.76	0.67
2:B:529:ILE:HD13	13:B:835:CLA:HAB	1.77	0.67
1:A:450:PHE:HZ	13:A:838:CLA:HMC3	1.59	0.67
13:A:838:CLA:HMB2	13:A:839:CLA:C3D	2.24	0.67
2:B:354:HIS:HB3	13:B:815:CLA:HED1	1.77	0.67
2:B:90:ILE:HB	2:B:111:PRO:HB2	1.75	0.67
2:B:427:TRP:HD1	13:B:830:CLA:HED1	1.58	0.67
10:L:145:VAL:HG11	13:L:1004:CLA:H51	1.75	0.67
13:B:831:CLA:HBA1	8:J:36:LEU:O	1.94	0.67
13:B:836:CLA:HMB2	13:B:837:CLA:C2D	2.25	0.67
13:B:837:CLA:HAA2	13:B:837:CLA:O1D	1.95	0.67
1:A:272:TRP:CD2	13:A:817:CLA:HMB2	2.30	0.66
2:B:529:ILE:HG21	13:B:835:CLA:CAB	2.25	0.66
2:B:60:VAL:HG21	13:B:826:CLA:C4	2.25	0.66
13:B:830:CLA:CBB	15:B:846:BCR:H323	2.24	0.66
2:B:339:TRP:HE1	13:B:822:CLA:CMB	2.08	0.66
3:C:6:ILE:HG13	3:C:64:ILE:HD12	1.78	0.66
13:X:102:CLA:HAA2	13:X:102:CLA:CGD	2.26	0.66
1:A:680:HIS:HB3	13:B:802:CLA:O1D	1.95	0.66
13:A:813:CLA:HAA2	13:A:813:CLA:CGD	2.25	0.66
15:B:850:BCR:H331	15:B:850:BCR:C8	2.26	0.66
13:A:831:CLA:CGD	13:A:831:CLA:HAA2	2.25	0.66
13:B:808:CLA:CMA	13:I:101:CLA:HAB	2.16	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:808:CLA:HED2	13:A:828:CLA:HED2	1.78	0.66
13:A:826:CLA:H143	15:A:851:BCR:H391	1.78	0.66
13:A:831:CLA:HMB2	13:A:832:CLA:C2D	2.26	0.66
13:B:817:CLA:HMB2	13:B:822:CLA:H71	1.78	0.66
13:B:834:CLA:HAA2	13:B:834:CLA:CGD	2.25	0.66
13:A:835:CLA:CED	13:A:836:CLA:HMA3	2.26	0.66
15:A:852:BCR:H321	15:A:852:BCR:HC8	1.76	0.66
11:M:26:SER:HB2	13:M:1201:CLA:H2	1.77	0.66
8:J:26:LEU:HD23	15:J:1104:BCR:HC7	1.77	0.65
13:A:823:CLA:CMA	13:A:845:CLA:HAC2	2.25	0.65
1:A:489:TRP:HZ3	13:A:837:CLA:H42	1.61	0.65
13:A:803:CLA:HAA2	13:A:803:CLA:CGD	2.26	0.65
10:L:34:LEU:HD12	13:L:1003:CLA:HED3	1.79	0.65
1:A:302:LEU:HD13	13:A:815:CLA:HMC1	1.79	0.65
2:B:589:MET:HE1	2:B:590:LEU:HD23	1.79	0.65
2:B:548:ARG:NH2	4:D:124:ASN:OD1	2.30	0.65
13:A:812:CLA:C3D	13:A:813:CLA:HMC3	2.27	0.65
13:B:804:CLA:HAA2	13:B:804:CLA:CGD	2.26	0.65
13:B:812:CLA:HMB2	15:B:843:BCR:C21	2.26	0.64
13:B:829:CLA:HAB	13:B:830:CLA:H171	1.79	0.64
13:A:806:CLA:CGD	13:A:806:CLA:HAA2	2.27	0.64
13:B:812:CLA:HAB	13:B:826:CLA:H161	1.79	0.64
1:A:449:ILE:HD13	13:B:803:CLA:HBA2	1.78	0.64
13:A:832:CLA:HBC2	13:A:839:CLA:HMC2	1.80	0.64
13:A:821:CLA:HBC3	13:A:827:CLA:H18	1.78	0.64
1:A:372:GLN:HG3	13:A:826:CLA:HED1	1.80	0.64
1:A:542:HIS:CG	13:A:837:CLA:HAB	2.31	0.64
1:A:685:PHE:HA	13:A:803:CLA:HAB	1.79	0.64
2:B:309:PHE:CE1	13:B:820:CLA:H2	2.33	0.64
6:F:65:ILE:HB	6:F:66:PRO:HD3	1.80	0.64
13:A:825:CLA:HBA1	13:A:829:CLA:H18	1.80	0.64
13:A:826:CLA:HMA2	13:A:827:CLA:CED	2.27	0.64
1:A:118:TRP:CZ2	13:A:809:CLA:HED2	2.33	0.64
2:B:267:LEU:HD22	13:B:815:CLA:HBA1	1.80	0.64
11:M:29:LEU:HD13	13:M:1201:CLA:HMA1	1.79	0.64
1:A:83:VAL:HG11	13:A:805:CLA:H71	1.80	0.64
2:B:509:SER:O	2:B:511:THR:N	2.27	0.64
13:B:805:CLA:H51	18:B:848:LMG:H331	1.79	0.64
13:B:828:CLA:CGD	13:B:828:CLA:HAA2	2.28	0.64
13:B:831:CLA:HAA2	13:B:831:CLA:O2D	1.97	0.64
13:A:802:CLA:H143	13:I:101:CLA:HBC3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:PHE:CD1	13:A:805:CLA:HMC2	2.33	0.63
13:B:827:CLA:CGD	13:B:827:CLA:HAA2	2.28	0.63
1:A:378:PRO:HG2	1:A:384:ALA:HB2	1.79	0.63
13:A:812:CLA:HAA2	13:A:812:CLA:CGD	2.27	0.63
13:A:821:CLA:HBD	13:A:824:CLA:CED	2.28	0.63
13:B:807:CLA:H121	13:B:825:CLA:H171	1.81	0.63
1:A:120:ILE:HG12	1:A:121:VAL:HG13	1.80	0.63
13:B:808:CLA:O2D	13:B:808:CLA:HAA2	1.99	0.63
1:A:194:GLU:HG2	1:A:315:TYR:HB3	1.81	0.63
1:A:352:TRP:HB3	13:A:805:CLA:HAC1	1.81	0.63
13:A:818:CLA:H52	13:A:835:CLA:HBA1	1.81	0.63
13:B:816:CLA:HAA2	13:B:816:CLA:CGD	2.29	0.63
13:B:818:CLA:CGD	13:B:818:CLA:HAA2	2.29	0.62
1:A:345:TYR:O	1:A:349:THR:HB	1.99	0.62
13:A:837:CLA:HAA1	13:A:838:CLA:HED2	1.81	0.62
2:B:261:HIS:HD2	2:B:263:GLN:H	1.47	0.62
2:B:304:MET:HG3	2:B:322:HIS:O	2.00	0.62
8:J:16:ALA:HA	13:J:1101:CLA:H8	1.80	0.62
13:A:810:CLA:HMB2	13:A:812:CLA:CMD	2.28	0.62
2:B:466:ILE:HD13	13:B:832:CLA:HHC	1.81	0.62
13:B:806:CLA:H62	15:I:102:BCR:HC41	1.82	0.62
13:A:801:CLA:HAA2	13:A:801:CLA:O2D	2.00	0.62
13:A:821:CLA:HBD	13:A:824:CLA:HED1	1.81	0.62
2:B:308:ASP:O	13:B:820:CLA:HBA2	1.99	0.62
13:B:838:CLA:H193	15:I:102:BCR:H362	1.81	0.62
1:A:302:LEU:HD11	13:A:817:CLA:HBB1	1.82	0.62
13:A:832:CLA:HMC2	13:A:838:CLA:H203	1.82	0.62
2:B:557:LYS:HD2	4:D:124:ASN:OD1	2.00	0.62
13:A:808:CLA:HMC3	13:A:809:CLA:HMD2	1.82	0.61
2:B:122:TRP:CH2	15:B:843:BCR:H391	2.35	0.61
2:B:358:LEU:HB2	13:B:815:CLA:HED3	1.82	0.61
13:B:803:CLA:HAA2	13:B:803:CLA:O1D	2.00	0.61
13:A:825:CLA:HAA2	13:A:825:CLA:O1D	1.99	0.61
13:A:843:CLA:CGD	13:A:843:CLA:HAA2	2.30	0.61
1:A:671:ALA:HB1	13:A:808:CLA:HMC1	1.82	0.61
13:B:822:CLA:H61	13:B:824:CLA:H42	1.83	0.61
1:A:487:ALA:HA	13:A:837:CLA:HED2	1.82	0.61
2:B:188:ALA:HA	13:B:813:CLA:CBB	2.30	0.61
14:B:840:PQN:H242	15:B:847:BCR:H17C	1.81	0.61
1:A:153:THR:N	1:A:157:GLN:OE1	2.33	0.61
13:A:804:CLA:HED2	13:A:811:CLA:CGD	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:1201:CLA:HMB2	15:M:1203:BCR:HC42	1.83	0.61
13:A:801:CLA:HAA2	13:A:801:CLA:CGD	2.30	0.61
2:B:182:PHE:CZ	13:B:811:CLA:H71	2.36	0.61
2:B:725:LEU:HD11	13:B:827:CLA:H203	1.83	0.61
13:B:804:CLA:H8	13:B:822:CLA:HED2	1.81	0.61
1:A:300:HIS:O	1:A:304:ILE:HG12	2.01	0.61
13:A:833:CLA:C1A	15:B:849:BCR:H363	2.31	0.61
13:A:823:CLA:CBB	13:A:845:CLA:HAB	2.31	0.61
2:B:122:TRP:CE3	13:B:826:CLA:HED1	2.36	0.61
13:B:813:CLA:HAA2	13:B:813:CLA:CGD	2.30	0.61
13:B:825:CLA:H3A	13:B:825:CLA:CGA	2.30	0.61
13:A:829:CLA:H61	15:A:849:BCR:H373	1.82	0.61
2:B:53:LEU:HD21	13:B:811:CLA:HBA2	1.82	0.61
13:B:808:CLA:H201	7:I:26:VAL:CG2	2.31	0.61
13:B:831:CLA:HAA2	13:B:831:CLA:CGD	2.31	0.61
13:A:825:CLA:HBB2	15:A:850:BCR:H11C	1.83	0.60
2:B:60:VAL:HG11	15:B:843:BCR:H393	1.83	0.60
3:C:41:SER:OG	4:D:113:ASN:ND2	2.30	0.60
1:A:76:HIS:HB3	13:A:813:CLA:CED	2.31	0.60
2:B:41:LEU:O	2:B:45:ILE:HG12	2.01	0.60
1:A:66:GLU:OE2	1:A:186:LYS:HG3	2.01	0.60
1:A:490:VAL:HB	13:A:837:CLA:HED3	1.82	0.60
13:A:821:CLA:OBD	13:A:823:CLA:HMD3	2.01	0.60
2:B:188:ALA:HA	13:B:813:CLA:HBB1	1.82	0.60
13:B:801:CLA:H202	13:B:802:CLA:HMA1	1.84	0.60
9:K:36:SER:O	9:K:38:GLY:N	2.27	0.60
1:A:688:MET:HB2	13:A:803:CLA:C1C	2.31	0.60
13:A:833:CLA:HAA2	13:A:833:CLA:CGD	2.30	0.60
1:A:281:PHE:HE2	13:A:818:CLA:H43	1.66	0.60
1:A:453:PHE:C	13:A:834:CLA:HBB2	2.21	0.60
1:A:681:PHE:CD2	15:A:852:BCR:H363	2.37	0.60
2:B:339:TRP:CH2	15:B:844:BCR:H372	2.36	0.60
13:B:808:CLA:HAA2	13:B:808:CLA:CGD	2.31	0.60
13:B:823:CLA:HBA1	13:B:824:CLA:CED	2.31	0.60
1:A:143:LEU:HD12	13:A:808:CLA:HED1	1.82	0.60
13:A:809:CLA:HMC3	2:B:445:VAL:HG13	1.84	0.60
13:B:817:CLA:HMB1	13:B:822:CLA:H52	1.84	0.60
11:M:29:LEU:CB	13:M:1201:CLA:HBA2	2.31	0.60
13:M:1201:CLA:HAA2	13:M:1201:CLA:CGD	2.31	0.60
1:A:118:TRP:HZ3	13:A:809:CLA:HBA1	1.65	0.60
1:A:435:ARG:NH1	4:D:12:GLY:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:261:HIS:CD2	2:B:263:GLN:H	2.20	0.60
13:B:804:CLA:H112	13:B:822:CLA:O1D	2.02	0.60
1:A:427:ASN:OD1	1:A:432:ARG:NH1	2.34	0.60
1:A:694:ARG:HD3	2:B:572:GLY:HA3	1.82	0.60
13:A:840:CLA:HED2	2:B:427:TRP:HB2	1.84	0.60
2:B:210:ASN:O	2:B:212:LEU:N	2.35	0.60
2:B:459:GLU:OE2	6:F:50:HIS:ND1	2.35	0.60
1:A:250:ALA:HA	1:A:258:TRP:CD1	2.36	0.60
15:A:852:BCR:H393	15:J:1104:BCR:H313	1.83	0.60
15:L:1006:BCR:H331	15:L:1006:BCR:C8	2.25	0.60
1:A:379:PRO:CB	13:A:819:CLA:HBA1	2.31	0.60
2:B:380:TYR:CD1	13:B:825:CLA:HAB	2.37	0.60
1:A:272:TRP:CG	13:A:817:CLA:HMB2	2.37	0.59
1:A:660:GLN:HE22	1:A:750:ARG:HD2	1.67	0.59
13:A:802:CLA:H162	13:I:101:CLA:HMC2	1.84	0.59
13:A:825:CLA:HAA2	13:A:825:CLA:CGD	2.32	0.59
2:B:207:GLY:HA2	13:B:812:CLA:OBD	2.02	0.59
2:B:440:TYR:CZ	2:B:524:LEU:HB3	2.38	0.59
13:B:810:CLA:HBC3	13:B:811:CLA:CAB	2.32	0.59
13:B:825:CLA:O1D	13:B:825:CLA:HAA2	2.01	0.59
13:A:836:CLA:CGD	13:A:836:CLA:HAA2	2.33	0.59
13:A:842:CLA:H72	13:J:1101:CLA:C1	2.32	0.59
11:M:29:LEU:HD13	13:M:1201:CLA:CMA	2.31	0.59
1:A:250:ALA:HA	1:A:258:TRP:HD1	1.65	0.59
13:A:806:CLA:HAA2	13:A:806:CLA:O2D	2.02	0.59
2:B:713:LEU:HD11	18:B:848:LMG:H342	1.82	0.59
15:B:849:BCR:H23C	15:B:849:BCR:H392	1.83	0.59
1:A:14:VAL:HG21	13:A:810:CLA:HBA1	1.84	0.59
13:A:803:CLA:HBB1	13:B:802:CLA:C4B	2.33	0.59
1:A:432:ARG:HH21	13:A:831:CLA:HED3	1.68	0.59
13:A:821:CLA:CMB	13:A:825:CLA:HMA3	2.31	0.59
2:B:222:ALA:HB3	2:B:223:PRO:HD3	1.84	0.59
2:B:693:LEU:HD21	10:L:34:LEU:HD23	1.83	0.59
13:L:1004:CLA:HAA2	13:L:1004:CLA:CGD	2.32	0.59
13:A:804:CLA:C3C	13:J:1101:CLA:HAB	2.33	0.59
13:B:817:CLA:O1A	13:B:821:CLA:HBD	2.01	0.59
13:A:836:CLA:HBD	13:A:855:CLA:O1D	2.02	0.59
16:A:853:LHG:H172	13:J:1101:CLA:HMB2	1.85	0.59
2:B:492:TRP:CZ3	13:B:834:CLA:HMD3	2.28	0.59
13:B:833:CLA:O1D	13:B:834:CLA:HMA3	2.03	0.59
13:B:826:CLA:H203	15:B:843:BCR:H362	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:A:847:BCR:H383	15:A:847:BCR:H23C	1.85	0.59
2:B:663:TRP:CE3	13:B:801:CLA:HMA1	2.38	0.59
13:B:806:CLA:H111	15:I:102:BCR:HC31	1.85	0.58
13:B:833:CLA:HAA2	13:B:833:CLA:CGD	2.33	0.58
1:A:52:HIS:CG	16:A:853:LHG:H131	2.38	0.58
2:B:229:TRP:CD2	13:B:814:CLA:HMB2	2.39	0.58
2:B:360:PRO:CB	13:B:816:CLA:HBA1	2.33	0.58
8:J:15:ALA:O	8:J:19:MET:HB2	2.03	0.58
1:A:460:VAL:HG12	13:A:802:CLA:H12	1.86	0.58
13:B:801:CLA:O1A	13:B:802:CLA:HMD3	2.03	0.58
13:B:818:CLA:H3A	13:B:818:CLA:O2A	2.02	0.58
1:A:90:MET:SD	13:A:808:CLA:HBA1	2.44	0.58
13:A:803:CLA:C9	15:A:852:BCR:H19C	2.32	0.58
13:A:808:CLA:O1D	13:A:828:CLA:HED2	2.04	0.58
1:A:379:PRO:HB2	13:A:819:CLA:HBA1	1.84	0.58
1:A:391:LEU:O	1:A:395:THR:HG23	2.04	0.58
1:A:503:PRO:HD2	13:A:836:CLA:C3D	2.33	0.58
2:B:293:GLN:OE1	13:B:810:CLA:HBA2	2.04	0.58
13:B:803:CLA:H122	15:I:102:BCR:H281	1.84	0.58
1:A:446:TRP:HB2	13:A:843:CLA:HED3	1.85	0.58
13:A:803:CLA:H143	13:A:842:CLA:H111	1.86	0.58
2:B:361:TYR:CE2	13:B:816:CLA:HED3	2.38	0.58
13:X:102:CLA:HAA2	13:X:102:CLA:O2D	2.03	0.58
1:A:196:MET:HB2	13:A:813:CLA:HBC2	1.84	0.58
1:A:366:LEU:HD21	13:A:819:CLA:H72	1.84	0.58
2:B:343:CYS:SG	13:B:824:CLA:H71	2.44	0.58
2:B:431:PHE:CZ	15:B:850:BCR:HC41	2.38	0.58
13:B:829:CLA:HAA2	13:B:829:CLA:O2D	2.04	0.58
15:B:842:BCR:C8	15:B:842:BCR:H321	2.33	0.58
10:L:7:PRO:HB3	10:L:12:PRO:HA	1.86	0.58
1:A:543:ALA:HB1	13:A:838:CLA:HMB3	1.84	0.58
2:B:320:MET:SD	16:X:101:LHG:HC41	2.43	0.58
1:A:429:VAL:O	1:A:433:VAL:HG13	2.04	0.58
1:A:485:VAL:HG12	13:A:838:CLA:HMD1	1.86	0.58
6:F:139:SER:O	6:F:141:ARG:NH1	2.37	0.58
15:L:1005:BCR:HC41	13:M:1201:CLA:HMD2	1.84	0.58
13:A:803:CLA:HED2	2:B:538:LEU:CD2	2.34	0.57
2:B:419:GLU:OE1	6:F:141:ARG:NH2	2.37	0.57
4:D:61:LYS:HE2	4:D:94:ILE:HD12	1.86	0.57
6:F:54:ASP:O	6:F:56:ARG:N	2.33	0.57
6:F:97:LYS:HE2	6:F:102:ASP:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:835:CLA:CGD	13:A:835:CLA:HAA2	2.34	0.57
2:B:497:ASN:O	2:B:498:VAL:HB	2.04	0.57
13:B:824:CLA:H13	15:B:845:BCR:H15C	1.86	0.57
13:M:1201:CLA:HAA2	13:M:1201:CLA:CBD	2.34	0.57
1:A:95:ALA:HB2	1:A:158:LEU:HB2	1.84	0.57
13:A:804:CLA:HED2	13:A:811:CLA:O1D	2.05	0.57
2:B:427:TRP:CD1	13:B:830:CLA:HED1	2.39	0.57
1:A:300:HIS:HE2	13:A:819:CLA:C1B	2.16	0.57
13:B:803:CLA:H102	15:B:847:BCR:C36	2.34	0.57
5:E:24:ALA:O	5:E:25:SER:HB3	2.05	0.57
1:A:300:HIS:HB2	13:A:818:CLA:CHB	2.34	0.57
15:A:852:BCR:C8	15:A:852:BCR:H311	2.34	0.57
2:B:139:ILE:HD12	11:M:14:ILE:HD12	1.85	0.57
13:B:816:CLA:H62	13:B:816:CLA:CMB	2.33	0.57
2:B:140:PHE:CG	13:B:812:CLA:H12	2.40	0.57
2:B:337:LEU:HB2	13:B:804:CLA:HMD3	1.87	0.57
11:M:29:LEU:HB2	13:M:1201:CLA:HBA2	1.87	0.57
1:A:156:PHE:CZ	13:A:816:CLA:HBA1	2.39	0.57
1:A:70:ARG:NE	1:A:185:PRO:O	2.31	0.57
13:A:831:CLA:HAA2	13:A:831:CLA:O1D	2.04	0.57
6:F:6:VAL:O	6:F:43:CYS:N	2.30	0.57
2:B:668:MET:HB2	13:B:803:CLA:C1C	2.33	0.57
2:B:699:TRP:HE3	13:B:838:CLA:HMD3	1.69	0.57
6:F:132:LYS:HB2	6:F:135:GLU:HG3	1.86	0.57
1:A:92:PHE:CZ	13:A:807:CLA:HMD3	2.40	0.57
13:A:822:CLA:HED3	9:K:37:ARG:H	1.70	0.57
2:B:211:PHE:CE1	15:B:843:BCR:H352	2.40	0.57
2:B:354:HIS:HB3	13:B:815:CLA:CED	2.35	0.57
13:B:811:CLA:H203	13:B:826:CLA:H2	1.87	0.57
13:B:825:CLA:H161	18:B:848:LMG:H273	1.87	0.57
13:B:802:CLA:HAA2	13:B:802:CLA:CGD	2.35	0.56
13:B:838:CLA:HED3	10:L:96:TYR:HD1	1.69	0.56
10:L:89:ALA:HB1	15:L:1005:BCR:H401	1.87	0.56
1:A:473:ASP:OD1	10:L:69:ARG:NH2	2.38	0.56
13:A:829:CLA:H61	15:A:849:BCR:C37	2.33	0.56
13:A:833:CLA:CMA	15:I:102:BCR:H292	2.33	0.56
5:E:68:VAL:HG23	5:E:69:ALA:H	1.68	0.56
1:A:660:GLN:HG2	1:A:753:SER:CB	2.35	0.56
2:B:150:PHE:HD2	13:B:809:CLA:CBC	2.19	0.56
2:B:236:PRO:HA	2:B:252:ALA:HB3	1.86	0.56
2:B:343:CYS:HB3	13:B:822:CLA:C4	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:6:LYS:HB2	10:L:7:PRO:HD2	1.87	0.56
1:A:660:GLN:NE2	1:A:750:ARG:HD2	2.20	0.56
13:B:815:CLA:O1D	13:B:815:CLA:HAA2	2.05	0.56
7:I:20:TRP:HZ2	13:I:101:CLA:HBB	1.71	0.56
1:A:599:LEU:HD21	13:A:830:CLA:HBC1	1.88	0.56
15:A:852:BCR:HC8	15:A:852:BCR:H311	1.87	0.56
13:B:817:CLA:CGD	13:B:817:CLA:HAA2	2.36	0.56
13:A:840:CLA:HAA2	13:A:840:CLA:O2D	2.06	0.56
13:B:805:CLA:HAA2	13:B:805:CLA:CGD	2.34	0.56
12:X:20:LEU:HD21	13:X:102:CLA:HBB1	1.88	0.56
13:A:803:CLA:H91	13:A:803:CLA:C12	2.36	0.56
13:A:822:CLA:O1D	9:K:36:SER:HA	2.06	0.56
13:A:824:CLA:HHC	13:A:831:CLA:HMD2	1.87	0.56
2:B:277:LEU:HD13	13:B:813:CLA:CMC	2.35	0.56
10:L:31:ILE:HA	10:L:34:LEU:HD22	1.87	0.56
11:M:26:SER:HB2	15:M:1203:BCR:HC31	1.88	0.56
1:A:246:PRO:HG3	13:A:815:CLA:HED1	1.87	0.56
13:A:820:CLA:HAA2	13:A:820:CLA:CGD	2.36	0.56
1:A:433:VAL:HG12	13:A:831:CLA:HMD3	1.87	0.56
2:B:274:HIS:HE1	13:B:814:CLA:C4D	2.19	0.56
2:B:425:LEU:HD13	2:B:538:LEU:HA	1.88	0.56
13:B:808:CLA:HMA1	13:I:101:CLA:CAB	2.21	0.56
1:A:270:PHE:CD1	13:A:844:CLA:HMD2	2.41	0.56
1:A:305:ALA:O	1:A:309:ILE:HG12	2.06	0.56
13:A:803:CLA:HAA2	13:A:803:CLA:O2D	2.05	0.56
2:B:29:ASP:CG	13:B:827:CLA:HED1	2.26	0.56
2:B:184:VAL:HG11	15:B:842:BCR:C34	2.36	0.56
2:B:466:ILE:HB	13:B:835:CLA:CED	2.36	0.56
13:B:830:CLA:HHD	13:B:830:CLA:HBC2	1.87	0.56
1:A:313:HIS:CE1	15:A:847:BCR:H363	2.41	0.55
1:A:744:TRP:CD1	15:A:852:BCR:HC22	2.40	0.55
13:A:803:CLA:H92	15:A:852:BCR:H19C	1.87	0.55
2:B:131:ASN:HB2	11:M:1:MET:O	2.06	0.55
3:C:28:VAL:HG12	4:D:109:ARG:HB3	1.88	0.55
3:C:62:LEU:HB3	3:C:64:ILE:O	2.06	0.55
11:M:30:TYR:O	13:M:1201:CLA:HED2	2.06	0.55
1:A:490:VAL:HB	13:A:837:CLA:CED	2.37	0.55
2:B:173:ARG:HE	13:B:822:CLA:HMD1	1.72	0.55
13:A:803:CLA:HBB1	13:B:802:CLA:NB	2.21	0.55
13:A:843:CLA:H92	13:L:1003:CLA:HMC1	1.89	0.55
13:I:101:CLA:HAA2	13:I:101:CLA:O1D	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:50:PHE:CZ	13:B:809:CLA:HBB1	2.42	0.55
1:A:612:HIS:ND1	13:A:837:CLA:HMC2	2.22	0.55
13:A:819:CLA:H121	13:A:821:CLA:CBB	2.36	0.55
13:A:832:CLA:HAA2	13:A:832:CLA:CGD	2.36	0.55
2:B:229:TRP:HB2	13:B:814:CLA:O2A	2.06	0.55
2:B:360:PRO:HB2	13:B:816:CLA:HED2	1.87	0.55
13:B:810:CLA:HAA2	13:B:810:CLA:HBD	1.89	0.55
8:J:4:PHE:O	8:J:8:LEU:HG	2.06	0.55
1:A:17:ASP:HB3	1:A:20:PRO:HG3	1.88	0.55
13:A:823:CLA:HAA2	13:A:823:CLA:O2D	2.06	0.55
2:B:367:ASP:OD1	2:B:370:THR:HG23	2.06	0.55
2:B:480:LEU:C	2:B:482:SER:H	2.11	0.55
2:B:699:TRP:CE3	13:B:838:CLA:HMD3	2.42	0.55
13:B:802:CLA:HAA2	13:B:802:CLA:O2D	2.07	0.55
13:B:806:CLA:C1	7:I:18:VAL:HG21	2.23	0.55
13:B:815:CLA:C5	13:B:832:CLA:HED2	2.36	0.55
6:F:88:VAL:HG11	6:F:97:LYS:HB3	1.89	0.55
1:A:145:GLN:NE2	1:A:382:TYR:O	2.37	0.55
13:A:826:CLA:HBA2	13:A:827:CLA:HED3	1.89	0.55
13:A:832:CLA:H2	10:L:31:ILE:HG13	1.87	0.55
2:B:39:GLU:HA	2:B:164:LEU:HD13	1.89	0.55
2:B:175:ASN:HB3	13:B:818:CLA:HMD1	1.88	0.55
13:I:101:CLA:O1D	10:L:67:PRO:HG3	2.06	0.55
1:A:120:ILE:HD12	15:J:1105:BCR:H311	1.89	0.55
1:A:339:ALA:HB1	1:A:342:LYS:HD3	1.87	0.55
1:A:374:MET:HG2	13:A:819:CLA:O1A	2.07	0.55
13:A:832:CLA:HBD	10:L:21:ILE:CG2	2.37	0.55
13:B:813:CLA:HAA2	13:B:813:CLA:O2D	2.07	0.55
13:B:822:CLA:C6	13:B:824:CLA:H42	2.36	0.55
13:B:823:CLA:HED2	13:B:824:CLA:OBD	2.06	0.55
13:A:834:CLA:H52	10:L:61:PRO:HG3	1.89	0.54
2:B:466:ILE:HD11	13:B:835:CLA:H43	1.88	0.54
13:B:830:CLA:HAA2	13:B:830:CLA:O1D	2.07	0.54
5:E:26:VAL:HG13	5:E:35:PRO:HB2	1.88	0.54
8:J:5:LEU:HD23	8:J:8:LEU:HD12	1.89	0.54
13:A:826:CLA:HAA1	13:A:839:CLA:HED2	1.89	0.54
13:A:842:CLA:CED	16:A:853:LHG:H102	2.36	0.54
2:B:372:ALA:HB1	2:B:731:LEU:HD11	1.88	0.54
13:B:824:CLA:HMB3	13:B:832:CLA:O2A	2.07	0.54
5:E:6:LYS:HD3	5:E:22:THR:HG22	1.88	0.54
13:A:833:CLA:HMA2	15:I:102:BCR:H272	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:73:ILE:O	6:F:77:ILE:HG13	2.07	0.54
11:M:29:LEU:O	11:M:30:TYR:HB2	2.06	0.54
1:A:42:PRO:HG3	1:A:47:TRP:CE3	2.41	0.54
1:A:662:ILE:HD12	2:B:627:ARG:HG3	1.89	0.54
13:A:838:CLA:HMB2	13:A:839:CLA:CAD	2.37	0.54
12:X:23:ASN:HD21	13:X:102:CLA:CHA	2.21	0.54
2:B:373:ALA:HB1	13:B:825:CLA:CMA	2.36	0.54
13:B:827:CLA:HAA2	13:B:827:CLA:O2D	2.07	0.54
1:A:375:TYR:CZ	13:A:837:CLA:HBC3	2.42	0.54
2:B:39:GLU:O	2:B:43:GLN:HG3	2.07	0.54
2:B:194:ILE:HA	2:B:198:ILE:HD12	1.90	0.54
2:B:277:LEU:HD13	13:B:813:CLA:HMC1	1.88	0.54
13:B:831:CLA:CED	8:J:36:LEU:H	1.98	0.54
13:A:813:CLA:HMC1	13:A:813:CLA:HBC3	1.90	0.54
2:B:103:PHE:CZ	2:B:651:VAL:HG22	2.43	0.54
2:B:446:VAL:HG13	2:B:451:THR:O	2.07	0.54
15:L:1006:BCR:HC8	15:L:1006:BCR:C33	2.35	0.54
1:A:356:LEU:HB2	13:A:805:CLA:HMD3	1.90	0.54
13:A:804:CLA:O1D	13:A:811:CLA:H2	2.08	0.54
13:A:826:CLA:H112	13:A:826:CLA:H162	1.88	0.54
15:B:849:BCR:C33	15:B:849:BCR:H343	2.38	0.54
2:B:216:PRO:HD2	13:B:813:CLA:CAD	2.38	0.53
2:B:236:PRO:O	2:B:250:GLY:HA3	2.08	0.53
3:C:4:VAL:HG12	3:C:64:ILE:HD11	1.88	0.53
1:A:28:TRP:CD2	13:A:811:CLA:H12	2.43	0.53
13:A:830:CLA:HAA2	13:A:830:CLA:O1D	2.08	0.53
2:B:392:HIS:CE1	13:B:827:CLA:NA	2.76	0.53
13:B:806:CLA:HMB2	15:I:102:BCR:HC22	1.90	0.53
13:B:815:CLA:HAA2	13:B:815:CLA:CGD	2.39	0.53
8:J:31:ARG:CD	15:J:1105:BCR:H312	2.30	0.53
1:A:253:TYR:O	1:A:258:TRP:NE1	2.36	0.53
1:A:711:LEU:HD23	6:F:130:THR:HG22	1.90	0.53
2:B:614:GLN:O	2:B:618:SER:HB2	2.09	0.53
14:B:840:PQN:H291	18:B:848:LMG:H181	1.90	0.53
1:A:67:ASP:O	1:A:71:LYS:HG3	2.07	0.53
1:A:646:ILE:HG21	13:A:802:CLA:CBA	2.39	0.53
2:B:24:ILE:HG21	18:B:848:LMG:H182	1.90	0.53
13:B:805:CLA:H51	18:B:848:LMG:C33	2.38	0.53
6:F:79:TRP:HE3	15:F:1302:BCR:HC41	1.72	0.53
13:J:1102:CLA:HMC3	15:J:1105:BCR:H352	1.90	0.53
1:A:336:PHE:CD1	16:A:854:LHG:HC42	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:433:VAL:HA	1:A:436:HIS:CE1	2.44	0.53
13:A:815:CLA:HAA2	13:A:815:CLA:O1D	2.07	0.53
13:A:819:CLA:HAA2	13:A:819:CLA:CGD	2.38	0.53
13:A:834:CLA:H101	15:B:849:BCR:H362	1.91	0.53
2:B:310:PHE:HE1	13:B:820:CLA:H71	1.74	0.53
2:B:622:LEU:HD13	13:B:802:CLA:HMA2	1.90	0.53
6:F:76:TRP:CH2	6:F:114:PHE:HB3	2.44	0.53
15:L:1005:BCR:H331	15:L:1005:BCR:C8	2.38	0.53
1:A:356:LEU:O	1:A:360:LEU:HB2	2.08	0.53
1:A:651:ARG:HB2	2:B:638:ILE:HG23	1.90	0.53
13:A:842:CLA:H101	13:J:1101:CLA:H43	1.91	0.53
2:B:351:VAL:HA	13:B:816:CLA:H42	1.90	0.53
13:B:832:CLA:HAA2	13:B:832:CLA:O1D	2.08	0.53
4:D:9:LEU:HB2	4:D:48:VAL:HB	1.90	0.53
1:A:74:SER:OG	1:A:180:TYR:HB2	2.09	0.53
13:B:822:CLA:O2D	13:B:822:CLA:HAA2	2.09	0.53
1:A:466:ARG:HB2	1:A:474:MET:SD	2.49	0.53
1:A:722:LEU:HD11	13:A:842:CLA:HMD3	1.90	0.53
13:B:803:CLA:H143	15:B:847:BCR:H362	1.90	0.53
13:B:806:CLA:HED3	7:I:11:PRO:CB	2.34	0.53
13:B:810:CLA:HAA2	13:B:810:CLA:CBD	2.39	0.53
1:A:141:SER:CB	13:A:808:CLA:HED3	2.37	0.53
1:A:323:HIS:CE1	13:A:822:CLA:NA	2.77	0.53
1:A:730:VAL:HG22	13:A:842:CLA:CAD	2.38	0.53
13:A:810:CLA:HAA2	13:A:810:CLA:O2D	2.08	0.53
2:B:466:ILE:HD13	13:B:832:CLA:CHC	2.39	0.53
1:A:203:GLY:HA3	13:A:813:CLA:CBB	2.39	0.53
13:A:840:CLA:C1	13:B:830:CLA:HED3	2.33	0.53
13:B:824:CLA:H101	15:B:845:BCR:H17C	1.91	0.53
13:B:826:CLA:H192	15:B:843:BCR:H362	1.89	0.53
1:A:80:LEU:O	1:A:83:VAL:HG12	2.09	0.52
1:A:302:LEU:HD13	13:A:815:CLA:CMC	2.39	0.52
2:B:625:TRP:O	2:B:629:TYR:HB3	2.09	0.52
13:A:828:CLA:HAA2	13:A:828:CLA:CGD	2.40	0.52
13:A:832:CLA:HBC2	13:A:839:CLA:CMC	2.39	0.52
2:B:466:ILE:HB	13:B:835:CLA:HED1	1.90	0.52
2:B:693:LEU:HB2	15:B:849:BCR:H282	1.91	0.52
13:B:825:CLA:H3A	13:B:825:CLA:O2A	2.09	0.52
13:B:825:CLA:HAA2	13:B:825:CLA:CGD	2.40	0.52
15:B:849:BCR:H333	13:I:101:CLA:H41	1.91	0.52
10:L:54:HIS:HA	10:L:57:PHE:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:154:ASN:OD1	1:A:156:PHE:HB3	2.10	0.52
13:A:803:CLA:CGA	13:A:803:CLA:H3A	2.40	0.52
13:A:808:CLA:H201	13:A:842:CLA:H12	1.90	0.52
2:B:29:ASP:OD2	13:B:827:CLA:HED1	2.09	0.52
2:B:122:TRP:HB2	13:B:826:CLA:HED2	1.92	0.52
2:B:277:LEU:HG	13:B:814:CLA:HBB1	1.91	0.52
1:A:93:HIS:CE1	13:A:807:CLA:NA	2.78	0.52
13:A:831:CLA:HBB2	13:A:839:CLA:HMC2	1.91	0.52
13:A:832:CLA:HED2	10:L:16:HIS:NE2	2.23	0.52
13:B:816:CLA:H3A	13:B:816:CLA:O2A	2.10	0.52
11:M:13:VAL:O	11:M:16:LEU:HB2	2.10	0.52
15:M:1203:BCR:H321	15:M:1203:BCR:HC8	1.92	0.52
1:A:534:ALA:O	1:A:538:VAL:HG22	2.10	0.52
1:A:683:TRP:CE3	13:A:801:CLA:HMA1	2.44	0.52
13:A:820:CLA:HMA2	9:K:61:ALA:CB	2.40	0.52
13:B:838:CLA:H142	10:L:85:LEU:HD23	1.92	0.52
15:B:843:BCR:H383	15:B:843:BCR:H23C	1.91	0.52
1:A:587:CYS:HB2	2:B:673:TRP:HB3	1.90	0.52
13:A:832:CLA:HMA1	2:B:691:THR:OG1	2.10	0.52
2:B:669:PHE:CZ	13:B:839:CLA:HBC3	2.45	0.52
18:B:848:LMG:H202	13:M:1201:CLA:HBC1	1.91	0.52
5:E:29:THR:HB	5:E:32:VAL:HG23	1.92	0.52
1:A:332:HIS:CE1	13:A:823:CLA:C1A	2.93	0.52
2:B:184:VAL:HG11	15:B:842:BCR:H341	1.92	0.52
2:B:665:THR:CA	13:B:803:CLA:HAB	2.38	0.52
13:B:803:CLA:C12	15:I:102:BCR:H281	2.40	0.52
5:E:24:ALA:N	5:E:37:ILE:O	2.31	0.52
13:A:834:CLA:CMC	13:B:803:CLA:H91	2.40	0.52
13:B:824:CLA:H191	13:B:837:CLA:HMB2	1.93	0.52
13:A:833:CLA:HAA2	13:A:833:CLA:O1D	2.11	0.51
2:B:7:PHE:CZ	2:B:27:ALA:HA	2.45	0.51
9:K:59:LEU:C	9:K:61:ALA:H	2.13	0.51
2:B:298:HIS:ND1	13:B:820:CLA:OBD	2.42	0.51
1:A:56:HIS:ND1	13:A:806:CLA:HED1	2.24	0.51
13:A:802:CLA:H152	15:B:847:BCR:C12	2.39	0.51
2:B:309:PHE:C	2:B:311:GLY:H	2.13	0.51
10:L:60:GLY:HA2	13:L:1004:CLA:HMA3	1.92	0.51
10:L:129:MET:SD	15:L:1006:BCR:H24C	2.50	0.51
1:A:215:HIS:CE1	13:A:814:CLA:C1A	2.92	0.51
13:A:834:CLA:HED2	10:L:65:LEU:O	2.10	0.51
2:B:150:PHE:HD2	13:B:809:CLA:HBC3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:703:PRO:HB3	13:B:838:CLA:C2C	2.40	0.51
13:B:811:CLA:H151	13:B:826:CLA:HMD2	1.92	0.51
1:A:104:LEU:HD23	1:A:148:ARG:HH11	1.75	0.51
1:A:143:LEU:HD22	1:A:147:TRP:CH2	2.45	0.51
13:A:819:CLA:H3A	13:A:819:CLA:CGA	2.39	0.51
13:A:835:CLA:O2D	13:A:836:CLA:HMA3	2.10	0.51
2:B:156:LEU:O	2:B:161:ARG:NH1	2.37	0.51
13:B:809:CLA:HBB2	13:B:811:CLA:HMA3	1.93	0.51
5:E:27:ASP:O	5:E:35:PRO:HB3	2.11	0.51
13:A:833:CLA:C3B	13:A:834:CLA:HMB2	2.41	0.51
2:B:435:HIS:HE1	13:B:830:CLA:C4D	2.24	0.51
2:B:554:PRO:HD2	3:C:61:PHE:CE1	2.46	0.51
1:A:454:HIS:HE1	13:A:833:CLA:C4D	2.24	0.51
13:A:803:CLA:HED2	2:B:538:LEU:HD23	1.91	0.51
13:A:820:CLA:HMA2	9:K:61:ALA:HB1	1.93	0.51
2:B:180:GLY:HA3	13:B:811:CLA:CBB	2.41	0.51
7:I:17:VAL:HA	7:I:21:LEU:HB3	1.91	0.51
1:A:210:LEU:HD21	15:A:847:BCR:H342	1.93	0.51
1:A:436:HIS:CE1	13:A:831:CLA:C4D	2.93	0.51
15:A:852:BCR:C23	15:A:852:BCR:H403	2.40	0.51
2:B:157:GLN:O	2:B:161:ARG:HG3	2.11	0.51
2:B:282:LEU:HD12	13:B:817:CLA:CMC	2.40	0.51
2:B:309:PHE:HB2	2:B:314:VAL:HG11	1.92	0.51
13:B:807:CLA:H102	13:B:807:CLA:C5	2.41	0.51
10:L:56:TYR:HB2	10:L:131:SER:HB2	1.93	0.51
1:A:231:VAL:HG12	1:A:235:ASP:HB3	1.93	0.51
1:A:717:ILE:HG13	6:F:98:GLU:OE1	2.11	0.51
13:A:830:CLA:H121	13:A:842:CLA:HBA1	1.93	0.51
13:B:824:CLA:H101	15:B:845:BCR:C17	2.40	0.51
15:L:1005:BCR:H403	15:L:1005:BCR:C23	2.34	0.51
1:A:118:TRP:CZ2	13:A:807:CLA:HAA2	2.46	0.51
1:A:221:LEU:HB2	1:A:222:PRO:HD3	1.93	0.51
13:A:803:CLA:HBA2	2:B:430:LEU:HD13	1.93	0.51
2:B:318:PHE:CD1	13:B:820:CLA:HAB	2.45	0.51
13:B:808:CLA:H13	18:B:848:LMG:H221	1.93	0.51
3:C:6:ILE:HG13	3:C:64:ILE:CD1	2.40	0.51
1:A:104:LEU:HD11	1:A:153:THR:HA	1.93	0.50
1:A:548:VAL:O	1:A:552:ILE:HD13	2.11	0.50
4:D:101:PHE:HB2	4:D:104:LYS:HE3	1.94	0.50
6:F:80:VAL:HG22	6:F:109:CYS:O	2.11	0.50
1:A:308:PHE:CE2	13:A:821:CLA:HAB	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:660:GLN:HG2	1:A:753:SER:HB3	1.93	0.50
13:A:825:CLA:HAB	15:A:850:BCR:C34	2.41	0.50
2:B:123:TRP:HB3	2:B:128:MET:HB2	1.93	0.50
2:B:463:ALA:HB2	13:B:836:CLA:HED3	1.93	0.50
15:F:1302:BCR:H342	15:F:1302:BCR:C33	2.41	0.50
1:A:197:LEU:HG	13:A:825:CLA:HMD3	1.93	0.50
1:A:237:PRO:HB3	1:A:248:LEU:HD21	1.93	0.50
1:A:691:PHE:HB2	13:A:803:CLA:HBC2	1.93	0.50
13:A:807:CLA:HAA1	13:A:807:CLA:HBD	1.94	0.50
2:B:651:VAL:HG13	13:B:808:CLA:HAC1	1.93	0.50
4:D:120:GLY:HA3	5:E:13:GLU:CD	2.32	0.50
2:B:231:VAL:O	2:B:234:GLN:HG2	2.11	0.50
2:B:696:LEU:HD11	10:L:36:ALA:HB1	1.94	0.50
4:D:24:GLU:O	4:D:87:PRO:HD3	2.12	0.50
8:J:33:TYR:N	8:J:34:PRO:HD3	2.26	0.50
13:A:813:CLA:O1D	13:A:825:CLA:H62	2.12	0.50
2:B:713:LEU:CD1	18:B:848:LMG:H342	2.42	0.50
4:D:34:PRO:O	4:D:51:GLU:HG3	2.12	0.50
10:L:67:PRO:HG2	10:L:68:LEU:HD23	1.94	0.50
1:A:191:GLN:HG2	13:A:825:CLA:H201	1.94	0.50
1:A:472:GLN:OE1	1:A:472:GLN:N	2.38	0.50
13:A:839:CLA:HAA2	13:A:839:CLA:CGD	2.42	0.50
3:C:65:ARG:HG2	3:C:67:TYR:CZ	2.47	0.50
1:A:118:TRP:HE3	13:A:809:CLA:H2A	1.70	0.50
13:A:802:CLA:HED1	2:B:660:HIS:CD2	2.46	0.50
13:A:840:CLA:H43	13:B:830:CLA:O1D	2.11	0.50
2:B:693:LEU:CB	15:B:849:BCR:H282	2.42	0.50
7:I:7:ALA:HB1	7:I:10:LEU:HD22	1.94	0.50
1:A:737:LEU:HD22	13:A:842:CLA:HMA1	1.94	0.50
2:B:360:PRO:HG3	13:B:816:CLA:HBA1	1.94	0.50
13:B:806:CLA:CGD	13:B:806:CLA:CAA	2.89	0.50
1:A:161:THR:HG22	15:A:848:BCR:HC32	1.94	0.50
1:A:207:LEU:HD22	15:A:848:BCR:H361	1.93	0.50
2:B:468:ALA:HA	2:B:472:LYS:O	2.12	0.50
6:F:73:ILE:O	6:F:76:TRP:HB3	2.12	0.50
1:A:377:MET:HE2	13:A:827:CLA:HMC2	1.94	0.49
1:A:542:HIS:HE1	1:A:612:HIS:ND1	2.10	0.49
2:B:155:HIS:HE1	13:B:809:CLA:C1A	2.25	0.49
2:B:210:ASN:C	2:B:212:LEU:H	2.15	0.49
2:B:288:HIS:CE1	15:B:841:BCR:H363	2.47	0.49
13:B:828:CLA:HAA2	13:B:828:CLA:O1D	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:I:101:CLA:H42	10:L:81:SER:HA	1.94	0.49
13:A:826:CLA:HAA1	13:A:839:CLA:CED	2.42	0.49
2:B:339:TRP:HE1	13:B:822:CLA:C2B	2.25	0.49
2:B:718:HIS:HE1	13:B:839:CLA:C4D	2.25	0.49
13:B:838:CLA:H2	13:B:839:CLA:H142	1.94	0.49
15:B:843:BCR:H331	15:B:843:BCR:C8	2.41	0.49
13:A:813:CLA:HAA1	13:A:825:CLA:C4	2.42	0.49
2:B:194:ILE:HG12	2:B:253:ILE:HB	1.95	0.49
6:F:53:VAL:O	15:F:1302:BCR:H291	2.11	0.49
1:A:364:GLY:O	1:A:368:ILE:HD12	2.13	0.49
2:B:52:HIS:CE1	13:B:804:CLA:HMA2	2.48	0.49
2:B:367:ASP:CG	2:B:370:THR:HG23	2.32	0.49
2:B:634:SER:O	2:B:638:ILE:HB	2.11	0.49
4:D:67:LEU:HD12	4:D:71:GLN:HG3	1.93	0.49
10:L:38:ARG:HE	13:L:1002:CLA:HAC2	1.76	0.49
13:A:819:CLA:HMA2	13:A:819:CLA:HBA2	1.94	0.49
2:B:275:HIS:HB2	13:B:815:CLA:CHB	2.42	0.49
13:B:838:CLA:C19	15:I:102:BCR:H362	2.42	0.49
13:M:1201:CLA:HAA2	13:M:1201:CLA:HBD	1.94	0.49
1:A:233:ALA:O	1:A:235:ASP:N	2.43	0.49
13:A:805:CLA:O1A	13:A:813:CLA:HED2	2.12	0.49
13:A:826:CLA:HBA1	13:A:827:CLA:CGD	2.42	0.49
15:A:852:BCR:H321	15:A:852:BCR:C8	2.43	0.49
2:B:651:VAL:HG13	13:B:808:CLA:HHD	1.94	0.49
15:B:841:BCR:H383	15:B:841:BCR:H23C	1.95	0.49
13:B:807:CLA:O1D	13:B:825:CLA:HED2	2.13	0.49
1:A:215:HIS:CE1	13:A:814:CLA:NA	2.79	0.49
1:A:215:HIS:HE1	13:A:814:CLA:C1A	2.25	0.49
1:A:292:LEU:HD22	13:A:818:CLA:HBA1	1.95	0.49
13:A:820:CLA:HAA2	13:A:820:CLA:O1D	2.12	0.49
13:A:834:CLA:H3A	13:A:834:CLA:HBA2	1.56	0.49
13:A:840:CLA:H11	13:B:830:CLA:CED	2.37	0.49
2:B:291:ARG:HB2	2:B:297:GLY:O	2.12	0.49
1:A:91:TYR:CE2	1:A:161:THR:HG21	2.48	0.49
1:A:601:TRP:CH2	13:A:802:CLA:HAB	2.48	0.49
2:B:529:ILE:CG2	13:B:835:CLA:HAB	2.38	0.49
13:I:101:CLA:H143	10:L:87:LEU:HD11	1.95	0.49
11:M:16:LEU:HD21	15:M:1203:BCR:H19C	1.95	0.49
1:A:24:SER:O	13:A:811:CLA:HMA1	2.13	0.49
1:A:220:SER:O	1:A:224:ASN:HB2	2.13	0.49
13:A:808:CLA:HED2	13:A:828:CLA:CED	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:828:CLA:HBB1	13:A:828:CLA:HMB1	1.95	0.49
13:A:842:CLA:H91	13:A:842:CLA:H112	1.62	0.49
2:B:464:GLN:HG2	2:B:475:TYR:CE2	2.48	0.49
1:A:28:TRP:CZ3	13:A:811:CLA:H43	2.47	0.48
1:A:332:HIS:CE1	13:A:823:CLA:NA	2.81	0.48
13:B:804:CLA:C10	13:B:804:CLA:HED3	2.43	0.48
13:B:838:CLA:H143	10:L:88:VAL:HG11	1.95	0.48
1:A:273:ALA:O	1:A:276:SER:OG	2.24	0.48
1:A:473:ASP:HA	10:L:69:ARG:HH22	1.77	0.48
13:A:801:CLA:HAB	13:B:801:CLA:NA	2.28	0.48
13:A:822:CLA:HAA2	13:A:822:CLA:O2D	2.13	0.48
13:B:811:CLA:H143	13:B:811:CLA:H112	1.66	0.48
1:A:370:VAL:CG1	13:A:829:CLA:HMD3	2.43	0.48
13:A:812:CLA:C4D	13:A:813:CLA:HMC3	2.44	0.48
13:A:843:CLA:HBC1	14:B:840:PQN:H192	1.95	0.48
2:B:154:LEU:O	2:B:160:PHE:HB2	2.13	0.48
13:B:806:CLA:CGD	13:B:806:CLA:HAA2	2.43	0.48
13:B:830:CLA:HBB1	13:B:831:CLA:HMB2	1.92	0.48
1:A:146:LEU:HA	1:A:380:TYR:CD2	2.47	0.48
1:A:377:MET:SD	13:A:827:CLA:HMC2	2.53	0.48
1:A:725:ILE:HG22	16:A:853:LHG:HC41	1.94	0.48
2:B:116:TYR:HB2	13:B:825:CLA:O1A	2.13	0.48
2:B:339:TRP:HZ3	15:B:845:BCR:H401	1.77	0.48
2:B:361:TYR:O	2:B:364:ILE:HG22	2.13	0.48
3:C:51:LYS:HD3	3:C:54:GLU:OE1	2.13	0.48
1:A:82:VAL:HG12	13:A:809:CLA:H193	1.96	0.48
1:A:658:ALA:O	1:A:662:ILE:HG12	2.13	0.48
1:A:686:SER:HB3	1:A:734:HIS:HB2	1.96	0.48
2:B:491:ALA:HB3	2:B:495:TYR:HA	1.95	0.48
13:B:828:CLA:HMA2	13:B:828:CLA:HBA2	1.94	0.48
5:E:2:GLN:HG2	5:E:5:SER:OG	2.13	0.48
1:A:266:PRO:HB2	1:A:275:TYR:CZ	2.48	0.48
1:A:395:THR:OG1	13:A:828:CLA:HBB1	2.14	0.48
13:A:813:CLA:HBD	13:A:825:CLA:H62	1.92	0.48
2:B:339:TRP:CZ3	15:B:845:BCR:H401	2.48	0.48
2:B:498:VAL:O	2:B:501:PRO:HD2	2.13	0.48
13:B:804:CLA:O1D	13:B:804:CLA:HAA2	2.14	0.48
13:B:825:CLA:HBC3	18:B:848:LMG:H421	1.95	0.48
11:M:10:VAL:O	11:M:14:ILE:HG13	2.14	0.48
1:A:509:ALA:HA	13:A:818:CLA:H11	1.95	0.48
2:B:166:TRP:CZ3	13:B:811:CLA:HMD3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:92:CYS:HB3	15:L:1005:BCR:C21	2.44	0.48
1:A:15:VAL:HG12	1:A:186:LYS:HD3	1.95	0.48
1:A:678:GLY:HA2	13:B:802:CLA:H41	1.95	0.48
2:B:76:TRP:HZ3	2:B:124:TYR:HB2	1.78	0.48
13:B:836:CLA:C9	15:F:1302:BCR:H20C	2.44	0.48
12:X:25:LEU:O	12:X:29:TYR:HD1	1.96	0.48
1:A:511:VAL:HB	1:A:526:MET:HG3	1.96	0.48
13:B:838:CLA:H151	13:B:839:CLA:H13	1.95	0.48
2:B:14:ASP:HB3	2:B:19:ARG:HB2	1.96	0.48
13:B:806:CLA:HED2	7:I:15:ILE:CD1	2.43	0.48
7:I:27:MET:HB3	15:L:1005:BCR:H352	1.96	0.48
12:X:18:LEU:O	12:X:21:ALA:HB3	2.14	0.48
1:A:714:ALA:O	6:F:89:ARG:NH2	2.42	0.47
13:A:802:CLA:H152	15:B:847:BCR:C10	2.44	0.47
13:A:813:CLA:HAA1	13:A:825:CLA:H41	1.96	0.47
13:A:813:CLA:H61	13:A:813:CLA:H102	1.68	0.47
13:A:842:CLA:H161	13:J:1101:CLA:H203	1.95	0.47
15:A:850:BCR:H331	15:A:850:BCR:C8	2.43	0.47
2:B:68:ALA:HB2	2:B:134:LEU:HB2	1.96	0.47
2:B:317:PRO:HB2	13:B:821:CLA:HMA3	1.97	0.47
3:C:57:CYS:HA	3:C:58:PRO:HD3	1.63	0.47
1:A:120:ILE:O	1:A:123:GLN:HG2	2.14	0.47
1:A:143:LEU:CD1	13:A:808:CLA:HED1	2.44	0.47
13:A:832:CLA:HBD	10:L:21:ILE:HG21	1.96	0.47
2:B:339:TRP:HH2	13:B:821:CLA:HBC2	1.79	0.47
2:B:398:VAL:HG23	2:B:547:ALA:HB1	1.94	0.47
13:B:817:CLA:CMB	13:B:822:CLA:H71	2.44	0.47
6:F:79:TRP:CZ3	15:F:1302:BCR:H332	2.49	0.47
1:A:346:GLU:OE1	1:A:346:GLU:N	2.42	0.47
2:B:220:GLY:HA3	13:B:813:CLA:HMD1	1.97	0.47
2:B:358:LEU:CB	13:B:815:CLA:HED3	2.44	0.47
13:B:807:CLA:HAB	13:B:808:CLA:HAA1	1.95	0.47
4:D:117:ARG:HG2	4:D:118:SER:N	2.29	0.47
6:F:22:VAL:O	6:F:34:ARG:NH2	2.29	0.47
1:A:118:TRP:CH2	13:A:807:CLA:HAA2	2.50	0.47
15:A:852:BCR:HC7	15:A:852:BCR:H331	1.67	0.47
1:A:31:PRO:HB2	1:A:47:TRP:HH2	1.80	0.47
2:B:463:ALA:HA	13:B:835:CLA:HED3	1.96	0.47
2:B:717:ALA:HA	18:B:848:LMG:H371	1.95	0.47
13:B:801:CLA:H2	13:B:802:CLA:C2D	2.45	0.47
1:A:290:GLY:HA3	1:A:520:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:805:CLA:HMB1	13:A:805:CLA:HBB1	1.96	0.47
2:B:481:LEU:HD11	13:B:832:CLA:CAD	2.45	0.47
13:B:821:CLA:HAA2	13:B:821:CLA:CED	2.44	0.47
13:B:827:CLA:HBD	18:B:848:LMG:H302	1.97	0.47
13:B:836:CLA:H203	6:F:67:SER:OG	2.14	0.47
5:E:6:LYS:HA	5:E:21:GLY:O	2.14	0.47
7:I:3:GLY:HA3	7:I:5:TYR:CE2	2.49	0.47
8:J:20:THR:HG23	15:J:1105:BCR:H351	1.97	0.47
1:A:396:HIS:HE1	13:A:828:CLA:ND	2.08	0.47
13:A:807:CLA:HAA1	13:A:807:CLA:CBD	2.44	0.47
13:A:826:CLA:OBD	13:A:837:CLA:HBB1	2.15	0.47
13:A:838:CLA:H3A	13:A:838:CLA:HBA2	1.56	0.47
13:A:843:CLA:CGD	13:A:843:CLA:CAA	2.93	0.47
2:B:178:LEU:O	2:B:283:PHE:HB3	2.15	0.47
13:B:807:CLA:CMC	15:B:847:BCR:HC32	2.44	0.47
13:B:807:CLA:HMC2	15:B:847:BCR:HC32	1.97	0.47
6:F:54:ASP:C	6:F:56:ARG:H	2.18	0.47
10:L:29:THR:O	10:L:33:ASN:ND2	2.44	0.47
1:A:35:ASP:HB3	1:A:38:LEU:HD12	1.97	0.47
1:A:94:GLY:O	1:A:98:SER:OG	2.16	0.47
13:A:811:CLA:H3A	13:A:811:CLA:HBA2	1.55	0.47
2:B:466:ILE:HG21	13:B:835:CLA:HED1	1.97	0.47
2:B:702:LYS:HZ1	4:D:24:GLU:CD	2.17	0.47
13:B:817:CLA:OBD	13:B:820:CLA:HMD3	2.15	0.47
6:F:84:TYR:CZ	6:F:101:ILE:HG23	2.50	0.47
11:M:26:SER:CB	13:M:1201:CLA:H2	2.45	0.47
1:A:33:HIS:NE2	13:A:811:CLA:HED2	2.30	0.47
1:A:86:TRP:HA	13:A:807:CLA:HBB2	1.96	0.47
1:A:203:GLY:O	1:A:207:LEU:HB2	2.14	0.47
13:A:832:CLA:H61	13:L:1003:CLA:H72	1.97	0.47
2:B:531:LEU:HD21	13:B:802:CLA:CBB	2.45	0.47
13:B:805:CLA:HMA1	13:B:827:CLA:HAB	1.96	0.47
1:A:449:ILE:HD11	15:B:847:BCR:H403	1.97	0.47
13:A:802:CLA:H111	13:A:802:CLA:H142	1.57	0.47
13:A:827:CLA:H2	13:A:827:CLA:H61	1.66	0.47
15:A:852:BCR:H403	15:A:852:BCR:H23C	1.97	0.47
2:B:25:ALA:HB2	18:B:848:LMG:H121	1.97	0.47
2:B:221:LEU:O	2:B:225:PHE:HD1	1.98	0.47
2:B:466:ILE:CG2	13:B:835:CLA:HED1	2.45	0.47
2:B:595:TRP:CZ2	13:B:801:CLA:H172	2.50	0.47
13:B:804:CLA:HMB1	13:B:804:CLA:CBB	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:J:24:GLY:HA3	13:J:1102:CLA:HBB1	1.96	0.47
11:M:14:ILE:O	11:M:18:PRO:HD2	2.15	0.47
13:A:828:CLA:HMB1	13:A:828:CLA:CBB	2.45	0.46
2:B:166:TRP:CZ2	13:B:809:CLA:HMA1	2.50	0.46
2:B:261:HIS:HD2	2:B:263:GLN:N	2.13	0.46
2:B:520:PRO:O	2:B:523:PHE:HB3	2.15	0.46
13:B:814:CLA:HAA2	13:B:814:CLA:O2D	2.15	0.46
13:B:816:CLA:H122	13:B:824:CLA:O1A	2.14	0.46
6:F:84:TYR:O	6:F:88:VAL:HG23	2.15	0.46
1:A:679:ALA:HB1	1:A:738:GLY:O	2.15	0.46
13:A:806:CLA:H42	13:A:830:CLA:C5	2.39	0.46
13:A:808:CLA:O1D	13:A:828:CLA:HAA2	2.16	0.46
13:A:832:CLA:H61	13:L:1003:CLA:H101	1.97	0.46
13:A:832:CLA:H102	13:L:1003:CLA:H122	1.96	0.46
2:B:188:ALA:CB	13:B:826:CLA:H202	2.45	0.46
13:B:806:CLA:H3A	13:B:806:CLA:HBA2	1.74	0.46
13:B:816:CLA:H3A	13:B:816:CLA:CGA	2.45	0.46
13:B:826:CLA:HAA2	13:B:826:CLA:CGD	2.45	0.46
13:B:830:CLA:HBC1	6:F:67:SER:OG	2.15	0.46
13:B:833:CLA:HAA2	13:B:833:CLA:O2D	2.15	0.46
4:D:117:ARG:CG	4:D:121:GLN:HB2	2.38	0.46
9:K:32:TYR:HA	9:K:35:GLN:N	2.16	0.46
1:A:28:TRP:CE3	13:A:811:CLA:H43	2.50	0.46
1:A:297:THR:O	1:A:300:HIS:HB3	2.15	0.46
1:A:603:TYR:OH	13:A:801:CLA:HED1	2.15	0.46
13:A:833:CLA:H171	13:B:838:CLA:HMB2	1.96	0.46
13:A:833:CLA:H51	15:B:847:BCR:C20	2.46	0.46
2:B:49:HIS:HB3	13:B:811:CLA:CED	2.40	0.46
2:B:422:ILE:HG23	2:B:538:LEU:HD11	1.97	0.46
1:A:314:MET:HE3	13:A:823:CLA:CMD	2.46	0.46
2:B:441:VAL:O	2:B:445:VAL:HG23	2.15	0.46
2:B:724:ILE:HD13	13:B:825:CLA:HMC2	1.98	0.46
1:A:101:GLU:HG3	1:A:155:GLU:HG2	1.97	0.46
1:A:296:ASP:HB3	13:A:818:CLA:HMA1	1.98	0.46
1:A:744:TRP:HD1	13:A:828:CLA:HMB2	1.80	0.46
2:B:198:ILE:HB	2:B:199:PRO:HD3	1.98	0.46
2:B:358:LEU:HB2	13:B:815:CLA:CED	2.45	0.46
4:D:117:ARG:HG2	4:D:118:SER:O	2.15	0.46
6:F:88:VAL:CG1	6:F:94:ALA:HA	2.43	0.46
10:L:34:LEU:HG	13:L:1003:CLA:O1D	2.16	0.46
11:M:19:ALA:HB2	15:M:1203:BCR:C13	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:160:CYS:SG	13:A:816:CLA:HBA2	2.56	0.46
2:B:337:LEU:HD13	13:B:804:CLA:C3D	2.46	0.46
2:B:435:HIS:CE1	13:B:830:CLA:C4D	2.99	0.46
13:B:806:CLA:H121	15:M:1203:BCR:H12C	1.97	0.46
13:B:815:CLA:H72	13:B:832:CLA:O1A	2.15	0.46
1:A:231:VAL:O	1:A:232:ALA:HB3	2.16	0.46
1:A:497:ALA:O	1:A:502:ALA:HB3	2.15	0.46
1:A:660:GLN:NE2	1:A:754:VAL:HG13	2.29	0.46
13:A:803:CLA:HBD	2:B:535:THR:CG2	2.46	0.46
13:A:828:CLA:H8	15:A:852:BCR:H343	1.98	0.46
13:A:833:CLA:CBB	13:A:834:CLA:H2	2.46	0.46
2:B:304:MET:HG3	2:B:322:HIS:HB3	1.97	0.46
13:B:824:CLA:H142	13:B:824:CLA:H111	1.63	0.46
13:B:825:CLA:H111	18:B:848:LMG:H442	1.97	0.46
13:B:826:CLA:H51	15:B:842:BCR:H23C	1.97	0.46
13:B:828:CLA:HMB2	13:B:829:CLA:C3D	2.46	0.46
13:B:836:CLA:H93	13:B:837:CLA:HBC1	1.97	0.46
15:F:1302:BCR:C8	15:F:1302:BCR:H311	2.46	0.46
11:M:13:VAL:HG23	15:M:1203:BCR:H402	1.98	0.46
13:B:827:CLA:C14	18:B:848:LMG:H231	2.46	0.46
6:F:103:VAL:HB	6:F:104:PRO:HD3	1.98	0.46
10:L:16:HIS:CD2	10:L:17:LEU:H	2.34	0.46
11:M:18:PRO:HB2	15:M:1203:BCR:H352	1.97	0.46
1:A:454:HIS:CE1	13:A:833:CLA:C4D	2.98	0.46
1:A:626:ALA:C	1:A:628:ASP:H	2.19	0.46
2:B:697:VAL:HA	10:L:96:TYR:OH	2.16	0.46
1:A:378:PRO:HA	1:A:379:PRO:HD3	1.56	0.46
1:A:503:PRO:HG2	13:A:836:CLA:CMD	2.46	0.46
1:A:547:HIS:CE1	13:A:839:CLA:C1A	2.99	0.46
14:A:846:PQN:C17	15:B:846:BCR:H382	2.28	0.46
2:B:466:ILE:CB	13:B:835:CLA:HED1	2.46	0.46
13:B:823:CLA:H3A	13:B:823:CLA:HBA2	1.66	0.46
15:B:846:BCR:C8	15:B:846:BCR:H331	2.45	0.46
3:C:57:CYS:HB3	3:C:62:LEU:CD2	2.46	0.46
1:A:118:TRP:CE2	13:A:809:CLA:HED2	2.50	0.45
1:A:207:LEU:HD21	13:A:820:CLA:HMC1	1.98	0.45
1:A:303:ALA:HB1	13:A:817:CLA:HBC2	1.98	0.45
1:A:356:LEU:HD13	13:A:805:CLA:C3D	2.45	0.45
1:A:409:ALA:HA	15:A:851:BCR:HC41	1.98	0.45
1:A:444:LEU:HG	1:A:551:LEU:HB2	1.98	0.45
2:B:122:TRP:CZ2	15:B:843:BCR:H401	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:309:PHE:O	2:B:311:GLY:N	2.49	0.45
2:B:531:LEU:HD21	13:B:802:CLA:HBB1	1.98	0.45
6:F:8:CYS:HB3	6:F:14:PHE:CD2	2.51	0.45
2:B:207:GLY:H	2:B:210:ASN:ND2	2.13	0.45
2:B:229:TRP:CE3	13:B:814:CLA:HMB2	2.51	0.45
13:B:815:CLA:H112	13:B:815:CLA:H91	1.72	0.45
6:F:116:TRP:CG	6:F:117:PRO:HD3	2.51	0.45
1:A:464:THR:HG22	1:A:468:PHE:CE1	2.52	0.45
1:A:579:ASP:OD1	3:C:52:ARG:NH2	2.48	0.45
13:A:808:CLA:H142	13:A:808:CLA:H111	1.77	0.45
13:A:820:CLA:H142	13:A:820:CLA:H111	1.53	0.45
13:A:833:CLA:HBC3	13:A:838:CLA:HMC1	1.98	0.45
2:B:111:PRO:HG2	7:I:1:MET:CE	2.46	0.45
1:A:454:HIS:HE1	13:A:833:CLA:C1A	2.30	0.45
1:A:685:PHE:CA	13:A:803:CLA:HAB	2.43	0.45
1:A:693:GLY:HA3	2:B:574:CYS:HB2	1.97	0.45
13:A:801:CLA:NA	13:B:801:CLA:HAB	2.31	0.45
13:A:830:CLA:H121	13:A:830:CLA:H161	1.86	0.45
13:A:840:CLA:H11	13:B:830:CLA:O1D	2.17	0.45
13:A:841:CLA:HAB	14:A:846:PQN:H202	1.98	0.45
2:B:284:ILE:O	2:B:288:HIS:ND1	2.42	0.45
13:A:830:CLA:HBD	16:A:853:LHG:H262	1.98	0.45
13:B:807:CLA:H102	13:B:807:CLA:H51	1.98	0.45
13:B:824:CLA:H143	15:B:844:BCR:C19	2.47	0.45
6:F:37:ARG:O	6:F:40:GLN:HG2	2.17	0.45
13:A:804:CLA:HAA1	13:A:811:CLA:H51	1.98	0.45
13:A:840:CLA:H202	13:A:841:CLA:HED1	1.98	0.45
2:B:170:ALA:O	13:B:822:CLA:HMD3	2.16	0.45
2:B:173:ARG:HG2	13:B:822:CLA:OBD	2.16	0.45
2:B:236:PRO:HB2	2:B:237:ASP:H	1.53	0.45
2:B:466:ILE:HD11	13:B:832:CLA:HMC3	1.98	0.45
2:B:702:LYS:HA	2:B:703:PRO:HD3	1.84	0.45
2:B:724:ILE:HG23	13:B:825:CLA:CBB	2.46	0.45
11:M:26:SER:CB	15:M:1203:BCR:HC41	2.47	0.45
1:A:42:PRO:HG2	6:F:99:ILE:HD13	1.98	0.45
13:A:820:CLA:H102	13:A:820:CLA:H62	1.79	0.45
14:A:846:PQN:H172	15:B:846:BCR:C38	2.30	0.45
2:B:350:LEU:HD23	13:B:816:CLA:H61	1.99	0.45
15:B:846:BCR:H383	15:B:846:BCR:H23C	1.99	0.45
1:A:189:TRP:CD1	13:A:812:CLA:HED3	2.52	0.45
1:A:436:HIS:CD2	13:A:831:CLA:NA	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:VAL:HG13	1:A:527:MET:HB3	1.98	0.45
13:A:842:CLA:H202	13:J:1101:CLA:H203	1.99	0.45
14:A:846:PQN:H161	14:A:846:PQN:H141	1.75	0.45
2:B:143:ILE:HD12	2:B:143:ILE:HG23	1.76	0.45
2:B:176:HIS:CE1	13:B:810:CLA:NA	2.84	0.45
13:B:804:CLA:HED3	13:B:804:CLA:H102	1.99	0.45
3:C:62:LEU:H	3:C:62:LEU:HG	1.54	0.45
6:F:8:CYS:HB2	6:F:39:SER:HA	1.99	0.45
15:F:1302:BCR:H15C	15:F:1302:BCR:H351	1.85	0.45
13:X:102:CLA:HBA2	13:X:102:CLA:HMA2	1.97	0.45
1:A:174:PHE:HD2	13:A:810:CLA:CBC	2.29	0.45
13:A:818:CLA:H91	13:A:836:CLA:O1A	2.17	0.45
13:A:834:CLA:H91	13:A:834:CLA:H112	1.57	0.45
13:A:834:CLA:H151	15:B:849:BCR:H372	1.99	0.45
2:B:207:GLY:H	2:B:210:ASN:HD21	1.65	0.45
2:B:438:GLY:HA3	13:B:831:CLA:CBB	2.47	0.45
2:B:509:SER:O	2:B:509:SER:OG	2.32	0.45
13:B:811:CLA:CGA	13:B:811:CLA:H3A	2.47	0.45
6:F:54:ASP:OD1	12:X:30:TYR:CE2	2.69	0.45
1:A:278:PHE:CZ	13:A:815:CLA:HMD3	2.52	0.45
1:A:304:ILE:HD12	13:A:819:CLA:HBB1	1.99	0.45
1:A:717:ILE:HD11	6:F:99:ILE:HG23	1.99	0.45
13:A:801:CLA:CHB	13:B:801:CLA:HMB2	2.47	0.45
13:A:826:CLA:HAA2	13:A:826:CLA:CGD	2.47	0.45
2:B:208:TRP:NE1	13:B:812:CLA:O1D	2.50	0.45
13:B:808:CLA:H201	7:I:26:VAL:HG21	1.99	0.45
13:B:809:CLA:HAA2	13:B:809:CLA:O1D	2.17	0.45
13:B:834:CLA:HBA1	13:B:834:CLA:HMA2	1.98	0.45
13:B:836:CLA:C4	13:B:836:CLA:H71	2.47	0.45
13:B:838:CLA:HAB	14:B:840:PQN:H172	1.99	0.45
4:D:38:VAL:HG22	4:D:48:VAL:HG22	1.98	0.45
6:F:15:GLN:O	6:F:18:ALA:HB3	2.17	0.45
1:A:269:THR:O	1:A:270:PHE:HB2	2.16	0.44
1:A:649:TRP:O	1:A:653:PHE:HB3	2.17	0.44
13:A:801:CLA:H102	13:A:801:CLA:H62	1.79	0.44
13:A:804:CLA:H91	13:A:804:CLA:H112	1.77	0.44
13:A:809:CLA:H91	13:A:809:CLA:H111	1.63	0.44
13:A:840:CLA:H61	13:B:830:CLA:H42	1.99	0.44
15:A:847:BCR:HC8	15:A:848:BCR:H383	1.99	0.44
2:B:600:TRP:HB2	13:B:835:CLA:HMC1	1.99	0.44
13:B:801:CLA:HAA2	13:B:801:CLA:O1D	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:B:812:CLA:H8	15:B:843:BCR:H363	1.99	0.44
13:B:820:CLA:CGD	13:B:820:CLA:CAA	2.95	0.44
13:B:838:CLA:HED2	7:I:31:PHE:CZ	2.52	0.44
13:M:1201:CLA:C3B	15:M:1203:BCR:H312	2.47	0.44
1:A:219:VAL:HG13	1:A:239:PRO:HB3	1.99	0.44
1:A:451:LEU:HD13	1:A:544:PHE:HA	1.98	0.44
1:A:487:ALA:O	1:A:491:GLN:HG3	2.17	0.44
1:A:588:GLN:HA	1:A:593:ASP:CG	2.38	0.44
1:A:748:LEU:O	1:A:752:ILE:HB	2.17	0.44
2:B:481:LEU:HA	2:B:489:SER:OG	2.17	0.44
13:B:808:CLA:H111	13:B:808:CLA:H151	1.77	0.44
10:L:93:LEU:HD21	15:L:1005:BCR:H383	1.99	0.44
13:L:1003:CLA:H91	13:L:1003:CLA:H112	1.59	0.44
1:A:104:LEU:HD23	1:A:148:ARG:NH1	2.33	0.44
1:A:118:TRP:HH2	13:A:807:CLA:CGA	2.30	0.44
1:A:168:MET:HG3	15:A:848:BCR:H322	1.99	0.44
13:A:804:CLA:HAA2	13:A:804:CLA:CGD	2.46	0.44
13:A:806:CLA:HMA1	13:A:830:CLA:HAB	1.99	0.44
13:A:826:CLA:HMB2	13:A:839:CLA:O1A	2.18	0.44
13:A:830:CLA:H143	16:A:853:LHG:H351	1.98	0.44
2:B:230:GLY:HA2	13:B:814:CLA:CBA	2.48	0.44
13:B:816:CLA:H111	13:B:816:CLA:H143	1.77	0.44
6:F:76:TRP:CZ2	13:F:1301:CLA:HED3	2.53	0.44
13:L:1004:CLA:H112	13:L:1004:CLA:H91	1.73	0.44
15:M:1203:BCR:H321	15:M:1203:BCR:C8	2.47	0.44
1:A:329:LEU:HD12	1:A:345:TYR:HB2	1.98	0.44
1:A:334:GLY:N	16:A:854:LHG:HC32	2.32	0.44
13:A:840:CLA:H2	13:B:830:CLA:H42	1.98	0.44
13:A:842:CLA:H41	13:A:842:CLA:H62	1.71	0.44
15:A:852:BCR:H351	15:A:852:BCR:H15C	1.65	0.44
2:B:393:GLY:HA2	15:B:845:BCR:H393	1.99	0.44
13:B:805:CLA:HHB	13:B:827:CLA:HAB	2.00	0.44
13:B:807:CLA:H51	13:B:807:CLA:C10	2.44	0.44
13:L:1004:CLA:HBA1	13:L:1004:CLA:HMA2	1.99	0.44
13:A:839:CLA:HAA2	13:A:839:CLA:O2D	2.17	0.44
15:A:849:BCR:C8	15:A:849:BCR:H331	2.48	0.44
2:B:400:ASP:OD1	4:D:129:LYS:NZ	2.43	0.44
13:B:803:CLA:H151	13:B:803:CLA:H111	1.80	0.44
13:B:822:CLA:HBA1	13:B:822:CLA:H3A	1.66	0.44
8:J:12:PRO:HD3	13:J:1101:CLA:C3D	2.48	0.44
1:A:44:THR:HB	1:A:720:ARG:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:48:ILE:CG2	13:J:1101:CLA:HBD	2.48	0.44
1:A:237:PRO:HB2	1:A:242:PHE:CE1	2.52	0.44
1:A:360:LEU:HD21	13:A:830:CLA:CHC	2.48	0.44
1:A:552:ILE:HG13	2:B:676:TYR:OH	2.18	0.44
13:A:803:CLA:HBA2	2:B:430:LEU:CD1	2.48	0.44
13:A:843:CLA:H192	10:L:58:LEU:HD21	1.99	0.44
2:B:60:VAL:HB	2:B:141:LEU:HD13	1.99	0.44
2:B:136:GLN:HE21	13:B:812:CLA:CGA	2.31	0.44
2:B:439:LEU:CD1	15:B:850:BCR:H342	2.45	0.44
2:B:718:HIS:CE1	13:B:839:CLA:C4D	3.00	0.44
13:B:803:CLA:CGA	13:B:803:CLA:H3A	2.48	0.44
4:D:107:LYS:HE3	4:D:107:LYS:HB3	1.80	0.44
1:A:215:HIS:HB2	13:A:814:CLA:C1C	2.48	0.44
1:A:483:GLN:HA	1:A:484:PRO:HD3	1.63	0.44
2:B:291:ARG:HB2	2:B:297:GLY:C	2.38	0.44
13:B:826:CLA:H192	15:B:843:BCR:C36	2.48	0.44
14:B:840:PQN:H202	14:B:840:PQN:H161	1.77	0.44
13:M:1202:CLA:H3A	13:M:1202:CLA:HBA2	1.72	0.44
1:A:120:ILE:HD13	8:J:27:ILE:HG23	2.00	0.44
1:A:205:LEU:HA	13:A:819:CLA:HMC1	1.99	0.44
1:A:449:ILE:HD13	13:B:803:CLA:CBA	2.47	0.44
13:A:811:CLA:H91	13:A:811:CLA:H112	1.67	0.44
13:A:824:CLA:HMA1	13:A:845:CLA:CBB	2.47	0.44
2:B:332:SER:O	2:B:336:GLN:HG3	2.17	0.44
2:B:390:PHE:CE1	15:B:845:BCR:H373	2.53	0.44
4:D:82:ILE:O	4:D:93:LEU:HD23	2.17	0.44
5:E:5:SER:O	5:E:22:THR:HA	2.17	0.44
6:F:41:ALA:HA	6:F:59:ARG:HH22	1.82	0.44
1:A:79:HIS:O	1:A:82:VAL:HG22	2.17	0.44
13:A:803:CLA:C15	13:A:842:CLA:HAB	2.26	0.44
13:A:809:CLA:HMA1	8:J:27:ILE:HD13	1.99	0.44
2:B:669:PHE:HB2	2:B:715:GLY:CA	2.48	0.44
13:B:805:CLA:H152	13:B:805:CLA:H112	1.58	0.44
1:A:285:LEU:HD21	1:A:378:PRO:HD2	1.99	0.43
1:A:299:HIS:HE1	13:A:817:CLA:CHA	2.31	0.43
1:A:317:THR:OG1	1:A:318:ASN:N	2.49	0.43
1:A:587:CYS:HB3	2:B:673:TRP:HE3	1.83	0.43
13:A:832:CLA:HBA2	2:B:690:ARG:O	2.18	0.43
2:B:90:ILE:HG12	13:B:808:CLA:OBD	2.17	0.43
2:B:523:PHE:HE1	13:B:836:CLA:C2D	2.31	0.43
13:B:827:CLA:H142	18:B:848:LMG:H231	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:1301:CLA:HBA1	13:F:1301:CLA:HMA2	2.00	0.43
1:A:356:LEU:HD13	13:A:805:CLA:C2D	2.48	0.43
1:A:699:GLU:HB2	2:B:542:LYS:NZ	2.34	0.43
13:A:819:CLA:H93	13:A:829:CLA:H203	2.00	0.43
13:A:823:CLA:C1B	13:A:845:CLA:HMC2	2.48	0.43
13:A:834:CLA:CGD	13:A:834:CLA:HAA2	2.48	0.43
13:A:838:CLA:CBB	13:A:839:CLA:HMD3	2.45	0.43
13:A:840:CLA:HAB	13:A:840:CLA:H122	2.00	0.43
2:B:208:TRP:CE2	13:B:812:CLA:HBD	2.54	0.43
15:L:1005:BCR:H331	15:L:1005:BCR:HC8	2.00	0.43
1:A:510:SER:HB2	13:A:827:CLA:HMC3	1.99	0.43
13:A:803:CLA:H18	13:A:842:CLA:C5	2.37	0.43
13:A:805:CLA:CED	13:A:825:CLA:H12	2.43	0.43
13:A:822:CLA:HBA2	13:A:822:CLA:HMA2	2.00	0.43
2:B:261:HIS:CD2	2:B:264:THR:H	2.36	0.43
2:B:355:MET:HE1	13:B:826:CLA:HMD1	1.99	0.43
2:B:466:ILE:CD1	13:B:832:CLA:HMC3	2.47	0.43
1:A:88:SER:HB3	1:A:165:GLY:HA3	2.00	0.43
1:A:92:PHE:CE2	13:A:807:CLA:HMD3	2.54	0.43
1:A:211:ALA:HA	13:A:815:CLA:CBB	2.48	0.43
13:A:806:CLA:H152	13:A:806:CLA:H112	1.68	0.43
13:A:834:CLA:O1D	10:L:67:PRO:HD3	2.17	0.43
2:B:50:PHE:HB3	2:B:148:ALA:O	2.17	0.43
2:B:337:LEU:HD13	13:B:804:CLA:C2D	2.48	0.43
3:C:57:CYS:HB3	3:C:62:LEU:HD23	1.99	0.43
13:A:827:CLA:H91	13:A:827:CLA:H112	1.77	0.43
13:A:843:CLA:H111	13:A:843:CLA:H91	1.77	0.43
2:B:91:TRP:HA	7:I:1:MET:SD	2.59	0.43
2:B:308:ASP:O	13:B:820:CLA:CBA	2.66	0.43
2:B:398:VAL:CG2	2:B:547:ALA:HB1	2.47	0.43
2:B:471:GLY:HA3	2:B:504:LEU:CD2	2.48	0.43
2:B:480:LEU:HD21	12:X:29:TYR:CE2	2.53	0.43
13:B:806:CLA:H121	15:M:1203:BCR:C12	2.49	0.43
13:B:813:CLA:HAB	15:B:841:BCR:H333	2.00	0.43
6:F:76:TRP:NE1	6:F:113:GLY:HA3	2.33	0.43
13:L:1002:CLA:HAA2	13:L:1002:CLA:O1D	2.18	0.43
1:A:75:ALA:HB1	13:A:805:CLA:HBB1	2.00	0.43
1:A:587:CYS:HB2	2:B:673:TRP:CB	2.49	0.43
13:A:840:CLA:C16	13:A:841:CLA:HED1	2.47	0.43
2:B:52:HIS:CD2	13:B:804:CLA:HMA1	2.54	0.43
2:B:337:LEU:O	2:B:341:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:390:PHE:HB3	2:B:540:LEU:HB3	2.00	0.43
2:B:693:LEU:O	2:B:696:LEU:HB2	2.17	0.43
6:F:76:TRP:HZ2	13:F:1301:CLA:HED3	1.84	0.43
10:L:92:CYS:HB3	15:L:1005:BCR:C19	2.49	0.43
1:A:177:TRP:HB2	13:A:811:CLA:CMC	2.45	0.43
1:A:689:PHE:HA	14:A:846:PQN:H9	2.00	0.43
4:D:95:HIS:HA	4:D:97:LYS:N	2.34	0.43
1:A:461:HIS:HE1	13:A:834:CLA:CHA	2.31	0.43
1:A:510:SER:HB2	13:A:827:CLA:CMC	2.48	0.43
1:A:536:PHE:HE1	13:A:838:CLA:C2D	2.31	0.43
1:A:547:HIS:CE1	13:A:839:CLA:NA	2.87	0.43
13:A:826:CLA:H71	13:A:835:CLA:HAB	2.01	0.43
2:B:260:PHE:CZ	2:B:358:LEU:HD23	2.53	0.43
13:B:808:CLA:H201	7:I:26:VAL:HG23	1.99	0.43
10:L:41:LEU:HD23	10:L:41:LEU:HA	1.69	0.43
1:A:395:THR:HB	1:A:610:ILE:HG21	2.01	0.43
13:B:815:CLA:H42	13:B:824:CLA:CBB	2.49	0.43
10:L:89:ALA:O	10:L:92:CYS:HB2	2.18	0.43
1:A:152:ILE:HG23	1:A:157:GLN:HB2	2.00	0.43
1:A:202:ALA:HB1	13:A:820:CLA:HBC3	2.01	0.43
13:A:810:CLA:HBB2	13:A:813:CLA:HMA3	2.01	0.43
13:A:834:CLA:HAA2	13:A:834:CLA:O1D	2.19	0.43
13:A:840:CLA:H3A	13:A:840:CLA:HBA2	1.58	0.43
2:B:442:HIS:CD2	2:B:456:ILE:HG13	2.54	0.43
2:B:588:TRP:HH2	13:B:802:CLA:CBB	2.32	0.43
6:F:34:ARG:HD3	8:J:35:ASP:CG	2.40	0.43
6:F:99:ILE:HG13	6:F:100:ILE:N	2.33	0.43
1:A:14:VAL:HG22	13:A:812:CLA:O1D	2.19	0.42
2:B:279:ILE:HD13	2:B:279:ILE:HA	1.89	0.42
2:B:535:THR:O	2:B:539:ILE:HG13	2.19	0.42
13:B:822:CLA:HMB1	13:B:822:CLA:CBB	2.44	0.42
1:A:28:TRP:CZ2	13:A:804:CLA:H11	2.54	0.42
1:A:547:HIS:HE1	13:A:839:CLA:CHA	2.33	0.42
13:A:803:CLA:HMD2	2:B:539:ILE:HD13	2.01	0.42
13:A:803:CLA:H162	13:A:842:CLA:H102	2.01	0.42
2:B:536:THR:HG21	13:B:823:CLA:HBC3	2.01	0.42
13:B:803:CLA:H201	13:B:839:CLA:H71	2.00	0.42
13:B:811:CLA:HAA2	13:B:811:CLA:O1D	2.18	0.42
13:B:815:CLA:H51	13:B:832:CLA:HED2	2.01	0.42
15:B:845:BCR:C8	15:B:845:BCR:H331	2.48	0.42
1:A:86:TRP:O	1:A:90:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:PHE:HB3	1:A:249:MET:SD	2.59	0.42
1:A:325:LEU:HB2	1:A:345:TYR:HE1	1.84	0.42
1:A:443:HIS:CE1	13:A:832:CLA:NA	2.86	0.42
13:A:808:CLA:H112	13:A:808:CLA:H91	1.82	0.42
2:B:3:LYS:HG3	7:I:38:ALA:OXT	2.19	0.42
2:B:233:ALA:O	2:B:234:GLN:O	2.37	0.42
2:B:360:PRO:CG	13:B:816:CLA:HBA1	2.49	0.42
2:B:493:PRO:HG2	2:B:494:ASN:H	1.84	0.42
13:B:805:CLA:H191	18:B:848:LMG:H272	2.02	0.42
13:B:820:CLA:CGD	13:B:820:CLA:HAA1	2.49	0.42
7:I:7:ALA:CB	7:I:10:LEU:HD22	2.50	0.42
13:L:1003:CLA:C4C	15:L:1005:BCR:H281	2.49	0.42
1:A:33:HIS:CE1	13:A:804:CLA:HED3	2.54	0.42
1:A:461:HIS:HE1	13:A:834:CLA:C1A	2.32	0.42
13:A:840:CLA:H101	13:B:830:CLA:H11	2.02	0.42
14:B:840:PQN:H301	18:B:848:LMG:H201	2.01	0.42
15:B:849:BCR:H15C	15:B:849:BCR:H351	1.68	0.42
6:F:102:ASP:OD2	6:F:105:LEU:HB2	2.20	0.42
10:L:34:LEU:HG	13:L:1003:CLA:CGD	2.49	0.42
1:A:268:PHE:HA	13:A:844:CLA:HAC1	2.02	0.42
1:A:380:TYR:OH	13:A:829:CLA:O1D	2.34	0.42
1:A:429:VAL:HG23	13:A:824:CLA:HBC3	2.01	0.42
13:A:836:CLA:HMB1	15:A:851:BCR:H292	2.01	0.42
13:A:842:CLA:CGD	13:A:842:CLA:CAA	2.98	0.42
2:B:642:ASN:HB2	2:B:643:PRO:CD	2.49	0.42
1:A:210:LEU:HD21	15:A:847:BCR:C34	2.50	0.42
13:A:823:CLA:HBB1	13:A:845:CLA:HAB	1.99	0.42
13:A:830:CLA:H41	13:A:830:CLA:H61	1.63	0.42
2:B:360:PRO:HB3	13:B:816:CLA:HBA1	2.01	0.42
2:B:481:LEU:HD11	13:B:832:CLA:OBD	2.20	0.42
13:B:834:CLA:HED2	13:B:834:CLA:O1A	2.19	0.42
15:F:1302:BCR:H11C	15:F:1302:BCR:H341	1.87	0.42
1:A:146:LEU:HA	1:A:380:TYR:HD2	1.84	0.42
1:A:655:TRP:CD1	13:B:801:CLA:HBC1	2.55	0.42
1:A:674:LEU:HD13	13:A:809:CLA:HMC1	2.01	0.42
13:A:809:CLA:HMC3	2:B:445:VAL:CG1	2.47	0.42
13:A:825:CLA:H2	13:A:825:CLA:C7	2.50	0.42
13:A:833:CLA:H51	15:B:847:BCR:C21	2.50	0.42
13:A:835:CLA:HBA2	13:A:835:CLA:H3A	1.75	0.42
13:A:843:CLA:H72	13:A:843:CLA:HBB1	2.00	0.42
2:B:325:ILE:CG2	13:B:821:CLA:HMD3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:333:LEU:HB3	13:B:804:CLA:HAC1	2.01	0.42
15:B:844:BCR:H351	15:B:844:BCR:H15C	1.74	0.42
6:F:55:GLY:H	15:F:1302:BCR:H282	1.84	0.42
7:I:18:VAL:O	7:I:23:PRO:HD3	2.19	0.42
1:A:215:HIS:HB2	13:A:814:CLA:NC	2.34	0.42
1:A:624:THR:OG1	1:A:625:VAL:N	2.52	0.42
13:A:807:CLA:H3A	13:A:807:CLA:HBA2	1.80	0.42
2:B:103:PHE:HZ	2:B:651:VAL:HG22	1.82	0.42
2:B:668:MET:HB2	13:B:803:CLA:CHC	2.50	0.42
2:B:699:TRP:CZ3	13:B:838:CLA:HBC3	2.54	0.42
2:B:703:PRO:HG2	13:B:838:CLA:CBC	2.49	0.42
13:B:812:CLA:HMB1	13:B:826:CLA:H122	2.01	0.42
13:B:820:CLA:HBB1	13:B:820:CLA:H93	2.00	0.42
13:B:831:CLA:H61	13:B:831:CLA:H41	1.47	0.42
13:B:836:CLA:H91	15:F:1302:BCR:H20C	2.02	0.42
1:A:429:VAL:HG23	13:A:824:CLA:CBC	2.50	0.42
1:A:502:ALA:N	1:A:503:PRO:HD3	2.35	0.42
1:A:513:PHE:CE2	13:A:827:CLA:HBC2	2.55	0.42
13:A:806:CLA:CHC	13:A:829:CLA:HAB	2.49	0.42
13:A:809:CLA:H111	13:A:809:CLA:H142	1.85	0.42
13:A:832:CLA:C4	13:L:1003:CLA:H93	2.50	0.42
2:B:64:LEU:HD21	15:B:843:BCR:H271	2.01	0.42
2:B:182:PHE:HB3	2:B:283:PHE:CD2	2.54	0.42
2:B:309:PHE:CD1	13:B:820:CLA:HMB2	2.55	0.42
2:B:724:ILE:HG23	13:B:825:CLA:CAB	2.50	0.42
3:C:16:CYS:SG	3:C:17:VAL:N	2.93	0.42
15:J:1104:BCR:H383	15:J:1104:BCR:H23C	2.02	0.42
1:A:118:TRP:HZ3	13:A:809:CLA:CBA	2.33	0.42
1:A:348:LEU:HD12	13:A:825:CLA:HMC2	2.01	0.42
1:A:713:VAL:O	13:A:841:CLA:HMD3	2.20	0.42
13:A:805:CLA:HMB1	13:A:805:CLA:CBB	2.50	0.42
2:B:162:PRO:HB2	2:B:167:PHE:CE1	2.55	0.42
13:B:807:CLA:CGD	13:B:807:CLA:HAA2	2.50	0.42
13:B:812:CLA:CAC	15:B:843:BCR:H353	2.50	0.42
1:A:215:HIS:CD2	1:A:215:HIS:C	2.93	0.41
1:A:626:ALA:C	1:A:628:ASP:N	2.73	0.41
13:B:811:CLA:H91	13:B:811:CLA:H111	1.78	0.41
13:B:826:CLA:H42	15:B:843:BCR:C39	2.49	0.41
13:B:830:CLA:H102	13:B:830:CLA:H62	1.76	0.41
13:B:836:CLA:H3A	13:B:837:CLA:OBD	2.20	0.41
13:B:838:CLA:HAA2	13:B:838:CLA:O1D	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:B:849:BCR:H21C	13:L:1003:CLA:HAB	2.01	0.41
6:F:103:VAL:O	6:F:107:ILE:HG13	2.20	0.41
7:I:17:VAL:HG22	7:I:21:LEU:HD23	2.02	0.41
13:I:101:CLA:HMA2	13:I:101:CLA:O2A	2.20	0.41
1:A:53:ALA:HB2	16:A:853:LHG:HC82	2.02	0.41
1:A:118:TRP:HZ2	13:A:807:CLA:HED3	1.78	0.41
1:A:403:PHE:O	13:A:830:CLA:HMC1	2.20	0.41
2:B:189:TRP:CD2	13:B:816:CLA:HMD3	2.54	0.41
11:M:29:LEU:HB3	13:M:1201:CLA:HBA2	2.01	0.41
1:A:225:LYS:HD3	1:A:252:LEU:HB3	2.02	0.41
1:A:377:MET:CE	13:A:827:CLA:HMC2	2.50	0.41
1:A:511:VAL:HB	1:A:526:MET:CG	2.49	0.41
13:A:835:CLA:HMC3	13:A:837:CLA:H43	2.01	0.41
2:B:11:LEU:HD23	2:B:11:LEU:HA	1.90	0.41
2:B:140:PHE:CE1	13:B:812:CLA:H61	2.56	0.41
2:B:239:ALA:HA	2:B:262:PRO:HG3	2.01	0.41
11:M:26:SER:O	13:M:1201:CLA:CGA	2.68	0.41
1:A:16:VAL:HG11	1:A:183:ARG:HB3	2.03	0.41
1:A:660:GLN:HE21	1:A:754:VAL:HG13	1.85	0.41
13:A:817:CLA:CGD	13:A:817:CLA:CAA	2.94	0.41
13:A:838:CLA:CGD	13:A:838:CLA:CAA	2.98	0.41
2:B:241:HIS:HD2	2:B:247:GLN:O	2.03	0.41
2:B:274:HIS:HE1	13:B:814:CLA:CHA	2.33	0.41
2:B:309:PHE:CE1	13:B:820:CLA:H72	2.55	0.41
13:B:822:CLA:HAA2	13:B:822:CLA:CGD	2.50	0.41
1:A:86:TRP:HA	13:A:807:CLA:CBB	2.50	0.41
1:A:157:GLN:HG2	13:A:814:CLA:CED	2.50	0.41
5:E:6:LYS:HB3	5:E:20:VAL:CG1	2.50	0.41
1:A:118:TRP:CZ3	13:A:809:CLA:HBA1	2.51	0.41
13:A:826:CLA:HBB1	13:A:839:CLA:HMA1	2.02	0.41
2:B:377:HIS:HB2	13:B:825:CLA:CHB	2.51	0.41
2:B:479:THR:HG21	12:X:29:TYR:O	2.21	0.41
15:B:850:BCR:H21C	8:J:36:LEU:HD22	2.03	0.41
4:D:73:ARG:HB2	4:D:74:PRO:HD3	2.01	0.41
10:L:4:LEU:HD22	10:L:5:VAL:N	2.36	0.41
1:A:161:THR:CG2	15:A:848:BCR:HC32	2.51	0.41
1:A:178:PHE:O	1:A:182:LYS:HB2	2.21	0.41
1:A:356:LEU:HD23	1:A:411:HIS:CG	2.56	0.41
1:A:396:HIS:O	1:A:400:ILE:HG12	2.20	0.41
13:A:832:CLA:H91	13:A:832:CLA:H112	1.68	0.41
13:A:842:CLA:H202	13:J:1101:CLA:H171	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:64:LEU:HD21	15:B:843:BCR:H281	2.01	0.41
2:B:228:ASN:O	2:B:231:VAL:HG23	2.20	0.41
2:B:457:LEU:O	6:F:51:LEU:N	2.53	0.41
2:B:723:TYR:CE1	13:B:801:CLA:CGA	3.04	0.41
13:B:836:CLA:H102	13:B:836:CLA:H62	1.88	0.41
15:B:849:BCR:C8	15:B:849:BCR:H321	2.50	0.41
15:B:850:BCR:H15C	15:B:850:BCR:H351	1.85	0.41
13:J:1101:CLA:H41	13:J:1101:CLA:H61	1.94	0.41
1:A:120:ILE:HD12	15:J:1105:BCR:C31	2.51	0.41
1:A:221:LEU:HD11	1:A:295:SER:HB3	2.02	0.41
1:A:299:HIS:HE1	13:A:817:CLA:C4D	2.34	0.41
1:A:343:GLY:O	1:A:347:VAL:HG23	2.21	0.41
13:A:843:CLA:H191	13:L:1003:CLA:CBB	2.51	0.41
14:A:846:PQN:H191	14:A:846:PQN:H212	1.77	0.41
2:B:444:ASP:OD1	2:B:621:TYR:HB2	2.21	0.41
13:B:829:CLA:HMB2	15:F:1302:BCR:H10C	2.02	0.41
15:B:849:BCR:H11C	15:B:849:BCR:H341	1.77	0.41
4:D:124:ASN:HB2	4:D:127:GLN:NE2	2.36	0.41
12:X:23:ASN:HD22	12:X:23:ASN:C	2.23	0.41
1:A:292:LEU:CD2	13:A:818:CLA:HBA1	2.51	0.41
1:A:411:HIS:HA	1:A:414:ILE:HD12	2.03	0.41
1:A:423:ALA:HA	4:D:38:VAL:HG11	2.02	0.41
1:A:484:PRO:HD2	1:A:488:GLN:NE2	2.35	0.41
1:A:605:CYS:O	1:A:609:VAL:HG23	2.20	0.41
1:A:718:GLN:HA	1:A:719:PRO:HD3	1.97	0.41
13:A:802:CLA:C15	15:B:847:BCR:H12C	2.47	0.41
13:A:821:CLA:H3A	13:A:821:CLA:HBA2	1.31	0.41
13:A:821:CLA:H143	13:A:824:CLA:H93	2.02	0.41
13:A:826:CLA:H51	13:A:837:CLA:C2	2.51	0.41
13:A:833:CLA:HAA1	15:B:849:BCR:H363	2.03	0.41
13:A:840:CLA:O1D	2:B:427:TRP:HB2	2.21	0.41
2:B:24:ILE:HA	13:M:1201:CLA:HMD3	2.02	0.41
2:B:413:ARG:HD3	13:B:828:CLA:OBD	2.20	0.41
13:B:822:CLA:H61	13:B:822:CLA:H41	1.55	0.41
15:B:849:BCR:H392	15:B:849:BCR:C23	2.50	0.41
4:D:37:GLN:O	4:D:49:MET:HG2	2.21	0.41
1:A:252:LEU:H	1:A:252:LEU:HG	1.50	0.41
1:A:695:GLY:O	1:A:699:GLU:HG3	2.21	0.41
13:A:808:CLA:H62	13:A:828:CLA:H92	2.03	0.41
13:A:817:CLA:OBD	13:A:836:CLA:HED3	2.21	0.41
2:B:6:LYS:NZ	11:M:30:TYR:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:425:LEU:CG	13:B:837:CLA:HBB1	2.31	0.41
13:B:804:CLA:H111	13:B:804:CLA:H142	1.83	0.41
4:D:12:GLY:HA2	10:L:12:PRO:O	2.21	0.41
13:I:101:CLA:H111	13:I:101:CLA:H91	1.74	0.41
1:A:28:TRP:CG	13:A:811:CLA:H12	2.55	0.40
1:A:143:LEU:O	1:A:146:LEU:HB3	2.21	0.40
1:A:204:LEU:HB2	13:A:813:CLA:HMB2	2.03	0.40
1:A:257:ASP:O	1:A:258:TRP:HB2	2.20	0.40
1:A:332:HIS:HE1	13:A:823:CLA:CHA	2.33	0.40
13:A:833:CLA:C1B	13:A:834:CLA:HMB2	2.50	0.40
15:A:852:BCR:C36	13:B:802:CLA:H42	2.27	0.40
2:B:140:PHE:CZ	13:B:812:CLA:H61	2.55	0.40
2:B:387:VAL:HG11	2:B:586:MET:SD	2.61	0.40
2:B:465:PHE:HB2	12:X:30:TYR:CE1	2.55	0.40
2:B:473:LEU:O	2:B:476:GLY:N	2.46	0.40
13:B:834:CLA:HBB1	13:B:834:CLA:HHC	2.03	0.40
4:D:124:ASN:HB2	4:D:127:GLN:CD	2.41	0.40
6:F:99:ILE:HG13	6:F:100:ILE:HG13	2.04	0.40
2:B:260:PHE:HZ	2:B:358:LEU:HD23	1.86	0.40
2:B:638:ILE:HD11	2:B:656:PHE:CE2	2.57	0.40
2:B:703:PRO:HG2	13:B:838:CLA:HBC3	2.04	0.40
14:B:840:PQN:H2M1	14:B:840:PQN:H111	1.69	0.40
8:J:24:GLY:C	13:J:1102:CLA:HBB1	2.42	0.40
1:A:333:LYS:O	13:A:845:CLA:HBC3	2.21	0.40
1:A:480:ILE:HD11	10:L:69:ARG:NH1	2.37	0.40
1:A:622:TRP:O	1:A:633:HIS:HD2	2.05	0.40
13:A:825:CLA:HAB	15:A:850:BCR:H341	2.03	0.40
13:A:833:CLA:CED	13:A:843:CLA:H11	2.51	0.40
13:A:845:CLA:HAA2	13:A:845:CLA:CBD	2.50	0.40
2:B:122:TRP:HZ2	15:B:843:BCR:H401	1.86	0.40
2:B:279:ILE:CD1	13:B:815:CLA:HBC2	2.51	0.40
13:B:806:CLA:H12	7:I:18:VAL:CG2	2.27	0.40
13:B:824:CLA:H122	15:B:845:BCR:H17C	2.02	0.40
15:B:849:BCR:H23C	15:B:849:BCR:C39	2.49	0.40
15:F:1302:BCR:H342	15:F:1302:BCR:H331	2.04	0.40
10:L:92:CYS:HB3	15:L:1005:BCR:C20	2.51	0.40
12:X:20:LEU:O	12:X:23:ASN:HB3	2.22	0.40
1:A:137:ILE:HG21	13:A:808:CLA:CHD	2.52	0.40
1:A:182:LYS:HA	1:A:182:LYS:HD3	1.87	0.40
1:A:688:MET:HB2	13:A:803:CLA:CHC	2.51	0.40
2:B:137:GLY:HA2	13:B:812:CLA:O1A	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:142:LEU:HD12	2:B:142:LEU:HA	1.89	0.40
2:B:466:ILE:HD12	13:B:835:CLA:CED	2.51	0.40
2:B:642:ASN:HB2	2:B:643:PRO:HD2	2.03	0.40
2:B:700:LYS:NZ	7:I:35:GLU:O	2.47	0.40
2:B:721:VAL:CG2	13:B:827:CLA:H152	2.52	0.40
13:B:824:CLA:H121	15:B:844:BCR:C20	2.52	0.40
6:F:63:PHE:C	6:F:66:PRO:HD2	2.41	0.40
1:A:171:LEU:HD12	13:A:810:CLA:HBC1	2.02	0.40
1:A:325:LEU:HB2	1:A:345:TYR:CE1	2.57	0.40
1:A:741:ALA:O	1:A:744:TRP:HB3	2.22	0.40
13:A:814:CLA:CGD	13:A:814:CLA:CAA	2.93	0.40
13:A:819:CLA:H8	13:A:819:CLA:CAB	2.46	0.40
13:A:836:CLA:HMA2	13:A:836:CLA:HBA2	2.03	0.40
2:B:43:GLN:NE2	2:B:161:ARG:HB3	2.36	0.40
2:B:288:HIS:NE2	15:B:841:BCR:H363	2.37	0.40
2:B:541:VAL:HG22	15:B:844:BCR:H281	2.04	0.40
13:B:801:CLA:H2	13:B:802:CLA:C3D	2.51	0.40
13:B:830:CLA:HBB2	15:B:846:BCR:HC41	2.04	0.40
13:B:835:CLA:H112	13:B:835:CLA:H91	1.71	0.40
5:E:15:TYR:CE2	5:E:44:ASN:HA	2.57	0.40
7:I:19:CYS:HB3	13:I:101:CLA:CBB	2.51	0.40
8:J:30:ASN:ND2	15:J:1104:BCR:H332	2.36	0.40
12:X:9:TYR:O	12:X:10:ALA:HB2	2.21	0.40

All (1) 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)
10:L:40:GLY:O	10:L:114:SER:OG[3_665]	2.17	0.03

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%)	685 (93%)	39 (5%)	12 (2%)	9	44
2	B	737/740 (100%)	691 (94%)	37 (5%)	9 (1%)	13	50
3	C	78/80 (98%)	73 (94%)	4 (5%)	1 (1%)	12	48
4	D	136/138 (99%)	123 (90%)	8 (6%)	5 (4%)	3	27
5	E	67/75 (89%)	53 (79%)	6 (9%)	8 (12%)	0	6
6	F	139/164 (85%)	127 (91%)	8 (6%)	4 (3%)	4	31
7	I	36/38 (95%)	35 (97%)	1 (3%)	0	100	100
8	J	39/41 (95%)	37 (95%)	2 (5%)	0	100	100
9	K	42/83 (51%)	30 (71%)	5 (12%)	7 (17%)	0	3
10	L	149/154 (97%)	138 (93%)	9 (6%)	2 (1%)	12	48
11	M	29/31 (94%)	26 (90%)	2 (7%)	1 (3%)	3	29
12	X	27/35 (77%)	21 (78%)	5 (18%)	1 (4%)	3	27
All	All	2215/2334 (95%)	2039 (92%)	126 (6%)	50 (2%)	6	36

All (50) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	121	VAL
1	A	235	ASP
2	B	211	PHE
2	B	234	GLN
2	B	480	LEU
2	B	492	TRP
2	B	510	GLY
3	C	62	LEU
4	D	2	THR
6	F	55	GLY
6	F	91	SER
9	K	37	ARG
9	K	41	PRO
9	K	42	GLY
12	X	10	ALA
1	A	578	CYS
2	B	236	PRO
2	B	565	CYS
4	D	3	LEU
5	E	36	VAL
5	E	55	VAL
6	F	60	ALA

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Mol	Chain	Res	Type
9	K	74	VAL
10	L	104	GLY
10	L	106	SER
1	A	115	GLN
1	A	234	LYS
1	A	499	GLY
2	B	310	PHE
4	D	44	ALA
5	E	53	SER
6	F	89	ARG
9	K	75	SER
1	A	232	ALA
1	A	250	ALA
1	A	625	VAL
4	D	107	LYS
5	E	25	SER
5	E	35	PRO
5	E	68	VAL
1	A	42	PRO
1	A	182	LYS
1	A	498	PRO
2	B	481	LEU
4	D	108	GLY
11	M	30	TYR
5	E	30	PRO
9	K	40	GLY
9	K	56	LEU
5	E	54	GLY

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	589/603 (98%)	567 (96%)	22 (4%)	34	58
2	B	595/597 (100%)	572 (96%)	23 (4%)	32	57
3	C	67/67 (100%)	65 (97%)	2 (3%)	41	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	D	115/115 (100%)	109 (95%)	6 (5%)	23	49
5	E	59/64 (92%)	58 (98%)	1 (2%)	60	78
6	F	109/128 (85%)	105 (96%)	4 (4%)	34	58
7	I	32/32 (100%)	31 (97%)	1 (3%)	40	62
8	J	36/36 (100%)	35 (97%)	1 (3%)	43	65
10	L	117/119 (98%)	109 (93%)	8 (7%)	16	42
11	M	26/26 (100%)	24 (92%)	2 (8%)	13	39
12	X	20/24 (83%)	18 (90%)	2 (10%)	7	28
All	All	1765/1811 (98%)	1693 (96%)	72 (4%)	30	55

All (72) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	145	GLN
1	A	147	TRP
1	A	155	GLU
1	A	172	MET
1	A	186	LYS
1	A	210	LEU
1	A	221	LEU
1	A	235	ASP
1	A	252	LEU
1	A	260	PHE
1	A	276	SER
1	A	281	PHE
1	A	349	THR
1	A	360	LEU
1	A	395	THR
1	A	433	VAL
1	A	466	ARG
1	A	538	VAL
1	A	587	CYS
1	A	632	SER
1	A	675	LEU
1	A	713	VAL
2	B	53	LEU
2	B	142	LEU
2	B	159	LYS
2	B	171	GLU

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Mol	Chain	Res	Type
2	B	214	THR
2	B	218	PRO
2	B	256	PHE
2	B	296	ILE
2	B	318	PHE
2	B	322	HIS
2	B	349	SER
2	B	411	LEU
2	B	430	LEU
2	B	479	THR
2	B	525	VAL
2	B	574	CYS
2	B	582	PHE
2	B	589	MET
2	B	605	LEU
2	B	632	LEU
2	B	651	VAL
2	B	697	VAL
2	B	698	ARG
3	C	15	GLN
3	C	61	PHE
4	D	1	THR
4	D	73	ARG
4	D	93	LEU
4	D	104	LYS
4	D	105	VAL
4	D	117	ARG
5	E	63	HIS
6	F	1	ASP
6	F	54	ASP
6	F	56	ARG
6	F	105	LEU
7	I	10	LEU
8	J	19	MET
10	L	4	LEU
10	L	34	LEU
10	L	44	ILE
10	L	48	LEU
10	L	69	ARG
10	L	85	LEU
10	L	134	VAL
10	L	142	PHE

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Mol	Chain	Res	Type
11	M	3	LEU
11	M	17	LEU
12	X	8	THR
12	X	23	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	218	HIS
1	A	542	HIS
1	A	633	HIS
2	B	136	GLN
2	B	261	HIS
6	F	40	GLN
6	F	95	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 128 ligands modelled in this entry, 1 is monoatomic - leaving 127 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
13	CLA	A	836	1	45,53,73	1.82	12 (26%)	52,89,113	2.03	5 (9%)
13	CLA	A	837	-	51,59,73	1.84	13 (25%)	59,96,113	2.16	14 (23%)
13	CLA	M	1201	-	54,62,73	1.78	17 (31%)	62,99,113	2.17	13 (20%)
16	LHG	A	854	13	26,26,48	1.23	2 (7%)	29,32,54	1.19	2 (6%)
13	CLA	A	812	-	54,62,73	1.75	15 (27%)	62,99,113	2.17	12 (19%)
13	CLA	B	808	2	65,73,73	1.63	15 (23%)	76,113,113	1.93	9 (11%)
13	CLA	B	813	-	45,53,73	1.80	12 (26%)	52,89,113	2.13	10 (19%)
13	CLA	B	822	-	54,62,73	1.78	15 (27%)	62,99,113	2.13	12 (19%)
13	CLA	A	844	-	42,49,73	1.85	13 (30%)	48,83,113	1.75	8 (16%)
13	CLA	A	819	-	65,73,73	1.59	16 (24%)	76,113,113	2.12	16 (21%)
13	CLA	B	832	-	45,53,73	1.81	13 (28%)	52,89,113	2.11	10 (19%)
15	BCR	B	842	-	41,41,41	2.26	24 (58%)	56,56,56	2.27	21 (37%)
13	CLA	A	826	-	65,73,73	1.66	16 (24%)	76,113,113	1.89	13 (17%)
13	CLA	B	839	-	65,73,73	1.60	15 (23%)	76,113,113	1.84	11 (14%)
13	CLA	A	832	-	65,73,73	1.62	16 (24%)	76,113,113	2.01	11 (14%)
16	LHG	A	853	-	48,48,48	0.90	2 (4%)	51,54,54	1.06	2 (3%)
13	CLA	B	834	-	45,53,73	1.81	13 (28%)	52,89,113	2.14	9 (17%)
13	CLA	B	824	-	65,73,73	1.62	14 (21%)	76,113,113	1.89	12 (15%)
15	BCR	L	1006	-	41,41,41	2.22	24 (58%)	56,56,56	2.03	19 (33%)
13	CLA	B	811	-	65,73,73	1.65	15 (23%)	76,113,113	1.90	11 (14%)
13	CLA	A	834	-	65,73,73	1.64	17 (26%)	76,113,113	1.75	8 (10%)
13	CLA	B	827	-	65,73,73	1.59	15 (23%)	76,113,113	2.03	13 (17%)
15	BCR	B	843	-	41,41,41	2.18	24 (58%)	56,56,56	2.39	26 (46%)
13	CLA	A	806	-	65,73,73	1.60	15 (23%)	76,113,113	1.81	11 (14%)
13	CLA	B	816	-	60,68,73	1.68	16 (26%)	70,107,113	1.92	15 (21%)
13	CLA	A	830	-	65,73,73	1.57	14 (21%)	76,113,113	1.98	14 (18%)
15	BCR	B	850	-	41,41,41	2.21	25 (60%)	56,56,56	2.36	25 (44%)
15	BCR	F	1302	-	41,41,41	2.19	25 (60%)	56,56,56	2.20	21 (37%)
13	CLA	L	1002	10	65,73,73	1.61	15 (23%)	76,113,113	1.92	13 (17%)
13	CLA	A	808	1	65,73,73	1.65	14 (21%)	76,113,113	2.11	11 (14%)
15	BCR	A	850	-	41,41,41	2.29	23 (56%)	56,56,56	2.19	22 (39%)
15	BCR	J	1104	-	41,41,41	2.23	24 (58%)	56,56,56	2.24	24 (42%)
13	CLA	A	839	-	47,55,73	1.74	13 (27%)	54,91,113	2.20	7 (12%)
14	PQN	B	840	-	34,34,34	0.89	1 (2%)	42,45,45	1.36	4 (9%)
13	CLA	A	831	-	50,58,73	1.84	16 (32%)	58,95,113	2.00	9 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
15	BCR	A	851	-	41,41,41	2.21	24 (58%)	56,56,56	2.17	17 (30%)
13	CLA	A	802	-	65,73,73	1.64	15 (23%)	76,113,113	1.74	9 (11%)
13	CLA	B	826	-	65,73,73	1.61	15 (23%)	76,113,113	1.72	7 (9%)
13	CLA	A	843	-	65,73,73	1.59	15 (23%)	76,113,113	1.93	13 (17%)
13	CLA	B	803	-	65,73,73	1.63	16 (24%)	76,113,113	1.83	11 (14%)
13	CLA	A	801	-	65,73,73	1.62	16 (24%)	76,113,113	1.89	13 (17%)
17	SF4	A	856	1,2	0,12,12	-	-	-	-	-
13	CLA	A	811	13	65,73,73	1.61	15 (23%)	76,113,113	1.96	11 (14%)
13	CLA	B	802	-	65,73,73	1.65	14 (21%)	76,113,113	2.12	13 (17%)
13	CLA	F	1301	-	45,53,73	1.84	13 (28%)	52,89,113	2.22	9 (17%)
15	BCR	M	1203	-	41,41,41	2.18	22 (53%)	56,56,56	2.27	21 (37%)
13	CLA	B	817	-	65,73,73	1.60	16 (24%)	76,113,113	1.94	8 (10%)
13	CLA	A	823	-	51,59,73	1.79	14 (27%)	59,96,113	1.90	8 (13%)
13	CLA	A	817	-	54,62,73	1.77	15 (27%)	62,99,113	1.91	11 (17%)
13	CLA	J	1101	-	65,73,73	1.60	14 (21%)	76,113,113	1.92	15 (19%)
13	CLA	A	816	-	49,57,73	1.75	14 (28%)	55,93,113	1.98	8 (14%)
13	CLA	L	1003	-	65,73,73	1.61	15 (23%)	76,113,113	2.00	14 (18%)
16	LHG	X	101	-	22,22,48	1.31	2 (9%)	25,28,54	1.01	1 (4%)
15	BCR	B	846	-	41,41,41	2.22	24 (58%)	56,56,56	2.08	21 (37%)
13	CLA	B	801	-	65,73,73	1.62	16 (24%)	76,113,113	1.86	12 (15%)
17	SF4	C	101	3	0,12,12	-	-	-	-	-
15	BCR	J	1105	-	41,41,41	2.23	24 (58%)	56,56,56	2.15	23 (41%)
13	CLA	J	1102	8	45,53,73	1.80	13 (28%)	52,89,113	2.14	8 (15%)
13	CLA	A	842	-	65,73,73	1.66	16 (24%)	76,113,113	1.68	9 (11%)
13	CLA	B	818	-	47,55,73	1.79	12 (25%)	54,91,113	1.92	7 (12%)
13	CLA	B	837	-	47,55,73	1.77	14 (29%)	54,91,113	2.07	8 (14%)
13	CLA	B	820	-	55,63,73	1.74	16 (29%)	64,101,113	1.90	11 (17%)
13	CLA	A	818	-	54,62,73	1.74	16 (29%)	62,99,113	2.16	10 (16%)
13	CLA	A	815	-	45,53,73	1.79	12 (26%)	52,89,113	2.16	10 (19%)
13	CLA	A	827	-	65,73,73	1.62	15 (23%)	76,113,113	1.91	11 (14%)
13	CLA	A	805	-	65,73,73	1.60	16 (24%)	76,113,113	1.85	8 (10%)
15	BCR	B	844	-	25,25,41	2.30	14 (56%)	33,33,56	2.14	13 (39%)
14	PQN	A	846	-	34,34,34	0.97	1 (2%)	42,45,45	1.18	4 (9%)
15	BCR	B	845	-	41,41,41	2.18	23 (56%)	56,56,56	2.35	22 (39%)
13	CLA	A	824	-	59,67,73	1.70	16 (27%)	68,105,113	2.06	14 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
18	LMG	B	848	-	55,55,55	1.05	8 (14%)	63,63,63	1.23	3 (4%)
13	CLA	A	814	-	45,53,73	1.81	12 (26%)	52,89,113	2.00	8 (15%)
13	CLA	B	828	-	45,53,73	1.81	14 (31%)	52,89,113	2.04	7 (13%)
13	CLA	B	823	-	46,54,73	1.82	13 (28%)	53,90,113	2.07	11 (20%)
17	SF4	C	102	3	0,12,12	-	-	-	-	-
13	CLA	A	820	-	61,69,73	1.68	16 (26%)	71,108,113	1.89	13 (18%)
15	BCR	B	847	-	41,41,41	2.21	24 (58%)	56,56,56	2.27	23 (41%)
13	CLA	B	807	-	65,73,73	1.64	16 (24%)	76,113,113	1.97	10 (13%)
13	CLA	A	813	-	60,68,73	1.67	14 (23%)	70,107,113	1.98	12 (17%)
13	CLA	L	1004	-	65,73,73	1.61	15 (23%)	76,113,113	1.91	12 (15%)
13	CLA	B	804	-	65,73,73	1.59	15 (23%)	76,113,113	1.88	11 (14%)
15	BCR	A	847	-	41,41,41	2.23	24 (58%)	56,56,56	2.05	23 (41%)
13	CLA	B	819	-	45,53,73	1.80	13 (28%)	52,89,113	2.13	9 (17%)
13	CLA	M	1202	-	45,53,73	1.80	12 (26%)	52,89,113	2.22	9 (17%)
13	CLA	B	835	-	60,68,73	1.72	15 (25%)	70,107,113	1.96	16 (22%)
13	CLA	B	805	-	65,73,73	1.59	16 (24%)	76,113,113	1.83	11 (14%)
13	CLA	A	807	-	51,59,73	1.81	15 (29%)	59,96,113	2.21	10 (16%)
13	CLA	X	102	12	45,53,73	1.84	13 (28%)	52,89,113	2.30	9 (17%)
15	BCR	A	848	-	41,41,41	2.24	23 (56%)	56,56,56	2.14	21 (37%)
15	BCR	B	841	-	41,41,41	2.20	24 (58%)	56,56,56	2.11	23 (41%)
13	CLA	B	815	-	59,67,73	1.71	15 (25%)	68,105,113	1.81	9 (13%)
15	BCR	I	102	-	41,41,41	2.10	21 (51%)	56,56,56	2.32	23 (41%)
13	CLA	A	810	-	45,53,73	1.77	13 (28%)	52,89,113	2.24	9 (17%)
13	CLA	A	845	16	52,60,73	1.75	16 (30%)	60,97,113	2.24	14 (23%)
13	CLA	B	814	-	55,63,73	1.71	15 (27%)	64,101,113	2.11	12 (18%)
13	CLA	A	825	-	65,73,73	1.63	14 (21%)	76,113,113	1.93	11 (14%)
13	CLA	B	806	-	65,73,73	1.63	17 (26%)	76,113,113	1.94	12 (15%)
13	CLA	A	838	-	65,73,73	1.64	15 (23%)	76,113,113	1.94	13 (17%)
13	CLA	A	804	13	59,67,73	1.71	14 (23%)	68,105,113	1.89	9 (13%)
13	CLA	I	101	-	65,73,73	1.65	16 (24%)	76,113,113	1.97	14 (18%)
13	CLA	A	855	-	45,53,73	1.80	13 (28%)	52,89,113	2.12	9 (17%)
15	BCR	L	1005	-	41,41,41	2.18	23 (56%)	56,56,56	2.26	23 (41%)
13	CLA	B	825	-	65,73,73	1.64	14 (21%)	76,113,113	1.79	7 (9%)
13	CLA	A	835	-	54,62,73	1.77	14 (25%)	62,99,113	1.88	10 (16%)
13	CLA	B	821	-	45,53,73	1.85	13 (28%)	52,89,113	1.95	8 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
13	CLA	J	1103	-	38,45,73	1.98	13 (34%)	43,78,113	1.79	5 (11%)
15	BCR	A	852	-	41,41,41	2.26	24 (58%)	56,56,56	2.28	20 (35%)
13	CLA	A	821	-	65,73,73	1.62	15 (23%)	76,113,113	1.98	12 (15%)
15	BCR	B	849	-	41,41,41	2.13	21 (51%)	56,56,56	2.34	22 (39%)
13	CLA	B	809	-	45,53,73	1.80	13 (28%)	52,89,113	2.16	9 (17%)
13	CLA	B	833	-	45,53,73	1.80	12 (26%)	52,89,113	2.19	5 (9%)
13	CLA	A	822	-	49,57,73	1.80	13 (26%)	55,93,113	2.30	9 (16%)
13	CLA	A	833	-	65,73,73	1.63	15 (23%)	76,113,113	1.77	8 (10%)
13	CLA	A	840	-	65,73,73	1.63	16 (24%)	76,113,113	1.95	11 (14%)
13	CLA	A	841	-	51,59,73	1.80	14 (27%)	59,96,113	1.93	10 (16%)
13	CLA	B	812	-	65,73,73	1.61	16 (24%)	76,113,113	1.93	12 (15%)
13	CLA	B	829	-	49,57,73	1.72	13 (26%)	55,93,113	1.92	10 (18%)
13	CLA	B	838	-	65,73,73	1.62	15 (23%)	76,113,113	1.97	13 (17%)
15	BCR	A	849	-	41,41,41	2.10	22 (53%)	56,56,56	2.23	24 (42%)
13	CLA	A	829	-	65,73,73	1.59	16 (24%)	76,113,113	1.99	14 (18%)
13	CLA	A	828	-	65,73,73	1.61	15 (23%)	76,113,113	1.91	10 (13%)
13	CLA	B	810	-	45,53,73	1.79	14 (31%)	52,89,113	1.98	8 (15%)
13	CLA	B	831	-	58,66,73	1.72	15 (25%)	67,104,113	2.17	13 (19%)
13	CLA	A	803	-	65,73,73	1.62	14 (21%)	76,113,113	1.81	13 (17%)
13	CLA	A	809	1	65,73,73	1.63	15 (23%)	76,113,113	2.08	16 (21%)
13	CLA	B	836	-	65,73,73	1.63	16 (24%)	76,113,113	1.85	11 (14%)
13	CLA	B	830	-	65,73,73	1.62	15 (23%)	76,113,113	1.94	10 (13%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CLA	A	836	1	1/1/11/20	4/13/91/115	-
13	CLA	A	837	-	-	2/21/99/115	-
13	CLA	M	1201	-	1/1/12/20	5/24/102/115	-
16	LHG	A	854	13	-	10/31/31/53	-
13	CLA	A	812	-	1/1/12/20	9/24/102/115	-
13	CLA	B	808	2	1/1/15/20	7/37/115/115	-
13	CLA	B	813	-	-	3/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CLA	B	822	-	1/1/12/20	9/24/102/115	-
13	CLA	A	844	-	-	2/7/81/115	-
13	CLA	B	832	-	1/1/11/20	4/13/91/115	-
13	CLA	A	819	-	1/1/15/20	11/37/115/115	-
15	BCR	B	842	-	-	12/29/63/63	0/2/2/2
13	CLA	A	826	-	-	9/37/115/115	-
13	CLA	B	839	-	1/1/15/20	5/37/115/115	-
13	CLA	A	832	-	1/1/15/20	16/37/115/115	-
16	LHG	A	853	-	-	22/53/53/53	-
13	CLA	B	834	-	1/1/11/20	4/13/91/115	-
13	CLA	B	824	-	1/1/15/20	9/37/115/115	-
15	BCR	L	1006	-	-	8/29/63/63	0/2/2/2
13	CLA	B	811	-	1/1/15/20	10/37/115/115	-
13	CLA	A	834	-	1/1/15/20	12/37/115/115	-
13	CLA	B	827	-	1/1/15/20	8/37/115/115	-
15	BCR	B	843	-	-	9/29/63/63	0/2/2/2
13	CLA	A	806	-	1/1/15/20	8/37/115/115	-
13	CLA	B	816	-	1/1/14/20	4/31/109/115	-
13	CLA	A	830	-	1/1/15/20	9/37/115/115	-
15	BCR	B	850	-	-	8/29/63/63	0/2/2/2
15	BCR	F	1302	-	-	10/29/63/63	0/2/2/2
13	CLA	L	1002	10	1/1/15/20	11/37/115/115	-
13	CLA	A	808	1	1/1/15/20	10/37/115/115	-
15	BCR	A	850	-	-	6/29/63/63	0/2/2/2
15	BCR	J	1104	-	-	11/29/63/63	0/2/2/2
13	CLA	A	839	-	1/1/11/20	3/16/94/115	-
14	PQN	B	840	-	-	7/23/43/43	0/2/2/2
13	CLA	A	831	-	1/1/12/20	2/19/97/115	-
15	BCR	A	851	-	-	8/29/63/63	0/2/2/2
13	CLA	A	802	-	1/1/15/20	3/37/115/115	-
13	CLA	B	826	-	1/1/15/20	13/37/115/115	-
13	CLA	A	843	-	1/1/15/20	6/37/115/115	-
13	CLA	B	803	-	1/1/15/20	12/37/115/115	-
13	CLA	A	801	-	1/1/15/20	7/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
17	SF4	A	856	1,2	-	-	0/6/5/5
13	CLA	A	811	13	1/1/15/20	13/37/115/115	-
13	CLA	B	802	-	1/1/15/20	10/37/115/115	-
13	CLA	F	1301	-	-	3/13/91/115	-
15	BCR	M	1203	-	-	15/29/63/63	0/2/2/2
13	CLA	B	817	-	1/1/15/20	10/37/115/115	-
13	CLA	A	823	-	1/1/12/20	4/21/99/115	-
13	CLA	A	817	-	1/1/12/20	3/24/102/115	-
13	CLA	J	1101	-	1/1/15/20	5/37/115/115	-
13	CLA	A	816	-	-	3/18/96/115	-
13	CLA	L	1003	-	1/1/15/20	14/37/115/115	-
16	LHG	X	101	-	-	9/26/26/53	-
15	BCR	B	846	-	-	8/29/63/63	0/2/2/2
13	CLA	B	801	-	1/1/15/20	10/37/115/115	-
17	SF4	C	101	3	-	-	0/6/5/5
15	BCR	J	1105	-	-	14/29/63/63	0/2/2/2
13	CLA	J	1102	8	1/1/11/20	5/13/91/115	-
13	CLA	A	842	-	1/1/15/20	14/37/115/115	-
13	CLA	B	818	-	1/1/11/20	2/16/94/115	-
13	CLA	B	837	-	1/1/11/20	4/16/94/115	-
13	CLA	B	820	-	1/1/13/20	6/25/103/115	-
13	CLA	A	818	-	1/1/12/20	7/24/102/115	-
13	CLA	A	815	-	1/1/11/20	0/13/91/115	-
13	CLA	A	827	-	1/1/15/20	8/37/115/115	-
13	CLA	A	805	-	1/1/15/20	10/37/115/115	-
15	BCR	B	844	-	-	6/18/35/63	0/1/1/2
14	PQN	A	846	-	-	7/23/43/43	0/2/2/2
15	BCR	B	845	-	-	10/29/63/63	0/2/2/2
13	CLA	A	824	-	1/1/13/20	9/30/108/115	-
18	LMG	B	848	-	-	11/50/70/70	0/1/1/1
13	CLA	A	814	-	1/1/11/20	3/13/91/115	-
13	CLA	B	828	-	1/1/11/20	4/13/91/115	-
13	CLA	B	823	-	1/1/11/20	1/15/93/115	-
17	SF4	C	102	3	-	-	0/6/5/5
13	CLA	A	820	-	1/1/14/20	9/33/111/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
15	BCR	B	847	-	-	12/29/63/63	0/2/2/2
13	CLA	B	807	-	1/1/15/20	14/37/115/115	-
13	CLA	A	813	-	1/1/14/20	7/31/109/115	-
13	CLA	L	1004	-	1/1/15/20	9/37/115/115	-
13	CLA	B	804	-	1/1/15/20	7/37/115/115	-
15	BCR	A	847	-	-	8/29/63/63	0/2/2/2
13	CLA	B	819	-	1/1/11/20	1/13/91/115	-
13	CLA	M	1202	-	-	3/13/91/115	-
13	CLA	B	835	-	1/1/14/20	8/31/109/115	-
13	CLA	B	805	-	1/1/15/20	5/37/115/115	-
13	CLA	A	807	-	1/1/12/20	5/21/99/115	-
13	CLA	X	102	12	1/1/11/20	3/13/91/115	-
15	BCR	A	848	-	-	13/29/63/63	0/2/2/2
15	BCR	B	841	-	-	10/29/63/63	0/2/2/2
13	CLA	B	815	-	1/1/13/20	7/30/108/115	-
15	BCR	I	102	-	-	16/29/63/63	0/2/2/2
13	CLA	A	810	-	1/1/11/20	5/13/91/115	-
13	CLA	A	845	16	1/1/12/20	3/22/100/115	-
13	CLA	B	814	-	1/1/13/20	4/25/103/115	-
13	CLA	A	825	-	1/1/15/20	6/37/115/115	-
13	CLA	B	806	-	1/1/15/20	9/37/115/115	-
13	CLA	A	838	-	1/1/15/20	13/37/115/115	-
13	CLA	A	804	13	1/1/13/20	8/30/108/115	-
13	CLA	I	101	-	1/1/15/20	10/37/115/115	-
13	CLA	A	855	-	1/1/11/20	1/13/91/115	-
15	BCR	L	1005	-	-	9/29/63/63	0/2/2/2
13	CLA	B	825	-	1/1/15/20	11/37/115/115	-
13	CLA	A	835	-	1/1/12/20	5/24/102/115	-
13	CLA	B	821	-	1/1/11/20	3/13/91/115	-
13	CLA	J	1103	-	1/1/8/20	0/2/76/115	-
15	BCR	A	852	-	-	13/29/63/63	0/2/2/2
13	CLA	A	821	-	1/1/15/20	14/37/115/115	-
15	BCR	B	849	-	-	14/29/63/63	0/2/2/2
13	CLA	B	809	-	1/1/11/20	3/13/91/115	-
13	CLA	B	833	-	1/1/11/20	4/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	CLA	A	822	-	1/1/11/20	4/18/96/115	-
13	CLA	A	833	-	1/1/15/20	6/37/115/115	-
13	CLA	A	840	-	1/1/15/20	10/37/115/115	-
13	CLA	A	841	-	1/1/12/20	3/21/99/115	-
13	CLA	B	812	-	1/1/15/20	11/37/115/115	-
13	CLA	B	829	-	1/1/11/20	3/18/96/115	-
13	CLA	B	838	-	1/1/15/20	13/37/115/115	-
15	BCR	A	849	-	-	5/29/63/63	0/2/2/2
13	CLA	A	829	-	1/1/15/20	9/37/115/115	-
13	CLA	A	828	-	1/1/15/20	18/37/115/115	-
13	CLA	B	810	-	1/1/11/20	3/13/91/115	-
13	CLA	B	831	-	1/1/13/20	6/29/107/115	-
13	CLA	A	803	-	1/1/15/20	9/37/115/115	-
13	CLA	A	809	1	-	9/37/115/115	-
13	CLA	B	836	-	1/1/15/20	9/37/115/115	-
13	CLA	B	830	-	1/1/15/20	11/37/115/115	-

All (1919) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	808	CLA	MG-ND	-4.34	1.97	2.05
13	B	802	CLA	MG-ND	-4.27	1.97	2.05
13	J	1103	CLA	C3A-C2A	-4.26	1.50	1.54
13	B	822	CLA	MG-ND	-4.23	1.97	2.05
13	B	835	CLA	MG-ND	-4.23	1.97	2.05
13	X	102	CLA	MG-ND	-4.23	1.97	2.05
13	F	1301	CLA	MG-ND	-4.21	1.97	2.05
13	A	837	CLA	MG-ND	-4.19	1.97	2.05
13	B	813	CLA	MG-ND	-4.16	1.97	2.05
13	A	836	CLA	MG-ND	-4.15	1.97	2.05
13	B	808	CLA	MG-ND	-4.14	1.97	2.05
13	A	842	CLA	MG-ND	-4.13	1.97	2.05
13	A	822	CLA	MG-ND	-4.11	1.97	2.05
13	B	823	CLA	MG-ND	-4.11	1.97	2.05
13	B	812	CLA	MG-ND	-4.09	1.97	2.05
13	A	838	CLA	MG-ND	-4.08	1.97	2.05
13	B	833	CLA	MG-ND	-4.08	1.97	2.05
13	B	807	CLA	MG-ND	-4.08	1.97	2.05
13	B	811	CLA	MG-ND	-4.07	1.97	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	818	CLA	MG-ND	-4.06	1.97	2.05
13	A	824	CLA	MG-ND	-4.06	1.97	2.05
13	A	826	CLA	MG-ND	-4.05	1.97	2.05
13	B	828	CLA	MG-ND	-4.05	1.97	2.05
13	J	1101	CLA	MG-ND	-4.05	1.97	2.05
13	A	834	CLA	MG-ND	-4.05	1.97	2.05
13	A	802	CLA	MG-ND	-4.04	1.97	2.05
13	B	825	CLA	MG-ND	-4.04	1.97	2.05
13	A	827	CLA	MG-ND	-4.04	1.97	2.05
13	A	855	CLA	MG-ND	-4.04	1.97	2.05
13	A	841	CLA	MG-ND	-4.03	1.97	2.05
13	B	824	CLA	MG-ND	-4.03	1.97	2.05
13	B	836	CLA	MG-ND	-4.02	1.97	2.05
13	A	825	CLA	MG-ND	-4.01	1.97	2.05
13	I	101	CLA	MG-ND	-4.01	1.97	2.05
13	A	814	CLA	MG-ND	-4.01	1.97	2.05
13	A	813	CLA	MG-ND	-4.00	1.97	2.05
13	B	838	CLA	MG-ND	-4.00	1.97	2.05
13	B	834	CLA	MG-ND	-4.00	1.97	2.05
13	B	831	CLA	MG-ND	-4.00	1.97	2.05
13	A	824	CLA	C1B-CHB	-3.99	1.29	1.41
13	A	812	CLA	MG-ND	-3.98	1.97	2.05
13	A	833	CLA	MG-ND	-3.98	1.97	2.05
13	B	806	CLA	MG-ND	-3.98	1.97	2.05
13	J	1102	CLA	MG-ND	-3.98	1.97	2.05
13	B	816	CLA	MG-ND	-3.97	1.97	2.05
13	B	817	CLA	MG-ND	-3.97	1.97	2.05
13	L	1002	CLA	MG-ND	-3.97	1.97	2.05
13	M	1202	CLA	MG-ND	-3.97	1.97	2.05
13	A	809	CLA	MG-ND	-3.96	1.97	2.05
13	B	820	CLA	MG-ND	-3.96	1.97	2.05
13	L	1004	CLA	MG-ND	-3.96	1.97	2.05
13	A	834	CLA	C1B-CHB	-3.95	1.30	1.41
13	A	803	CLA	MG-ND	-3.95	1.98	2.05
13	A	815	CLA	MG-ND	-3.94	1.98	2.05
13	B	821	CLA	MG-ND	-3.94	1.98	2.05
13	B	803	CLA	MG-ND	-3.94	1.98	2.05
13	L	1003	CLA	MG-ND	-3.94	1.98	2.05
13	A	843	CLA	MG-ND	-3.94	1.98	2.05
13	A	820	CLA	MG-ND	-3.94	1.98	2.05
13	A	816	CLA	MG-ND	-3.92	1.98	2.05
13	B	816	CLA	C1B-CHB	-3.92	1.30	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	L	1002	CLA	C1B-CHB	-3.91	1.30	1.41
13	A	831	CLA	MG-ND	-3.90	1.98	2.05
13	B	819	CLA	MG-ND	-3.90	1.98	2.05
13	A	811	CLA	MG-ND	-3.90	1.98	2.05
13	A	806	CLA	MG-ND	-3.89	1.98	2.05
13	A	821	CLA	MG-ND	-3.89	1.98	2.05
13	A	801	CLA	C1B-CHB	-3.88	1.30	1.41
13	A	818	CLA	MG-ND	-3.88	1.98	2.05
13	A	832	CLA	MG-ND	-3.88	1.98	2.05
13	B	815	CLA	MG-ND	-3.88	1.98	2.05
13	B	801	CLA	C1B-CHB	-3.87	1.30	1.41
13	A	822	CLA	C1B-CHB	-3.87	1.30	1.41
13	B	832	CLA	MG-ND	-3.87	1.98	2.05
13	A	802	CLA	C1B-CHB	-3.86	1.30	1.41
13	B	837	CLA	MG-ND	-3.86	1.98	2.05
13	A	835	CLA	MG-ND	-3.86	1.98	2.05
13	B	803	CLA	C1B-CHB	-3.86	1.30	1.41
13	B	810	CLA	MG-ND	-3.86	1.98	2.05
13	B	828	CLA	C1B-CHB	-3.86	1.30	1.41
13	A	835	CLA	C1B-CHB	-3.86	1.30	1.41
13	A	801	CLA	MG-ND	-3.83	1.98	2.05
13	B	804	CLA	C1B-CHB	-3.83	1.30	1.41
13	L	1003	CLA	C1B-CHB	-3.83	1.30	1.41
13	A	804	CLA	MG-ND	-3.83	1.98	2.05
13	B	818	CLA	C1B-CHB	-3.82	1.30	1.41
13	A	831	CLA	C1B-CHB	-3.82	1.30	1.41
13	B	821	CLA	C1B-CHB	-3.82	1.30	1.41
13	B	809	CLA	MG-ND	-3.82	1.98	2.05
13	B	825	CLA	C1B-CHB	-3.82	1.30	1.41
13	B	826	CLA	C1B-CHB	-3.81	1.30	1.41
13	B	819	CLA	C1B-CHB	-3.81	1.30	1.41
13	A	804	CLA	C1B-CHB	-3.80	1.30	1.41
13	A	819	CLA	MG-ND	-3.80	1.98	2.05
13	A	844	CLA	MG-ND	-3.80	1.98	2.05
13	B	809	CLA	C1B-CHB	-3.80	1.30	1.41
13	J	1103	CLA	C1B-CHB	-3.80	1.30	1.41
13	F	1301	CLA	C1B-CHB	-3.80	1.30	1.41
13	A	803	CLA	C1B-CHB	-3.79	1.30	1.41
13	A	809	CLA	C1B-CHB	-3.79	1.30	1.41
13	A	828	CLA	C1B-CHB	-3.79	1.30	1.41
13	A	820	CLA	C1B-CHB	-3.79	1.30	1.41
13	A	818	CLA	C1B-CHB	-3.78	1.30	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	815	CLA	C1B-CHB	-3.78	1.30	1.41
13	A	829	CLA	MG-ND	-3.77	1.98	2.05
13	A	826	CLA	C1B-CHB	-3.77	1.30	1.41
13	B	805	CLA	MG-ND	-3.77	1.98	2.05
13	A	810	CLA	C1B-CHB	-3.77	1.30	1.41
13	B	810	CLA	C1B-CHB	-3.77	1.30	1.41
13	B	829	CLA	C1B-CHB	-3.77	1.30	1.41
13	A	837	CLA	C1B-CHB	-3.76	1.30	1.41
13	A	807	CLA	MG-ND	-3.76	1.98	2.05
13	A	836	CLA	C1B-CHB	-3.75	1.30	1.41
13	X	102	CLA	C1B-CHB	-3.75	1.30	1.41
13	M	1201	CLA	MG-ND	-3.74	1.98	2.05
13	B	801	CLA	MG-ND	-3.74	1.98	2.05
13	B	807	CLA	C1D-C2D	-3.74	1.37	1.45
13	A	811	CLA	C1B-CHB	-3.74	1.30	1.41
13	B	802	CLA	C1B-CHB	-3.74	1.30	1.41
13	B	837	CLA	C1B-CHB	-3.73	1.30	1.41
14	A	846	PQN	C12-C13	3.73	1.41	1.33
13	A	817	CLA	C1B-CHB	-3.73	1.30	1.41
13	B	813	CLA	C1B-CHB	-3.73	1.30	1.41
13	B	839	CLA	MG-ND	-3.73	1.98	2.05
13	B	830	CLA	C1B-CHB	-3.73	1.30	1.41
13	A	814	CLA	C1B-CHB	-3.72	1.30	1.41
13	A	838	CLA	C1B-CHB	-3.72	1.30	1.41
13	B	807	CLA	C1B-CHB	-3.72	1.30	1.41
13	A	828	CLA	MG-ND	-3.72	1.98	2.05
13	B	832	CLA	C1B-CHB	-3.72	1.30	1.41
13	A	823	CLA	MG-ND	-3.72	1.98	2.05
13	A	845	CLA	MG-ND	-3.72	1.98	2.05
13	B	826	CLA	MG-ND	-3.72	1.98	2.05
13	B	839	CLA	C1B-CHB	-3.71	1.30	1.41
13	A	817	CLA	MG-ND	-3.71	1.98	2.05
13	A	839	CLA	C1B-CHB	-3.71	1.30	1.41
13	B	827	CLA	MG-ND	-3.71	1.98	2.05
13	A	805	CLA	C1B-CHB	-3.71	1.30	1.41
13	B	827	CLA	C1B-CHB	-3.71	1.30	1.41
13	A	840	CLA	MG-ND	-3.70	1.98	2.05
13	A	833	CLA	C1B-CHB	-3.70	1.30	1.41
13	B	829	CLA	MG-ND	-3.70	1.98	2.05
13	B	823	CLA	C1B-CHB	-3.70	1.30	1.41
13	B	822	CLA	C1B-CHB	-3.70	1.30	1.41
13	A	845	CLA	C1B-CHB	-3.69	1.30	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	813	CLA	C1B-CHB	-3.69	1.30	1.41
13	A	819	CLA	C1B-CHB	-3.69	1.30	1.41
13	I	101	CLA	C1B-CHB	-3.69	1.30	1.41
13	A	808	CLA	C1B-CHB	-3.69	1.30	1.41
13	B	806	CLA	C1B-CHB	-3.68	1.30	1.41
13	A	816	CLA	C1B-CHB	-3.68	1.30	1.41
13	A	855	CLA	C1B-CHB	-3.67	1.30	1.41
13	B	833	CLA	C1B-CHB	-3.67	1.30	1.41
13	A	842	CLA	C1B-CHB	-3.67	1.30	1.41
13	B	811	CLA	C1B-CHB	-3.67	1.30	1.41
13	A	808	CLA	C1D-C2D	-3.66	1.38	1.45
13	A	839	CLA	MG-ND	-3.66	1.98	2.05
13	A	825	CLA	C1B-CHB	-3.66	1.30	1.41
13	B	835	CLA	C4D-ND	-3.66	1.32	1.37
13	J	1102	CLA	C1B-CHB	-3.66	1.30	1.41
13	B	817	CLA	C1B-CHB	-3.66	1.30	1.41
13	A	844	CLA	C1B-CHB	-3.66	1.30	1.41
13	A	810	CLA	MG-ND	-3.66	1.98	2.05
13	B	815	CLA	C1B-CHB	-3.65	1.30	1.41
13	M	1201	CLA	C1B-CHB	-3.65	1.30	1.41
13	B	834	CLA	C1B-CHB	-3.65	1.30	1.41
13	B	824	CLA	C1B-CHB	-3.65	1.30	1.41
13	B	831	CLA	C1B-CHB	-3.64	1.30	1.41
13	L	1004	CLA	C1B-CHB	-3.64	1.30	1.41
13	B	808	CLA	C1B-CHB	-3.64	1.30	1.41
13	A	829	CLA	C1B-CHB	-3.64	1.30	1.41
15	A	852	BCR	C20-C21	3.64	1.54	1.43
13	M	1202	CLA	C1B-CHB	-3.64	1.30	1.41
13	B	804	CLA	MG-ND	-3.64	1.98	2.05
13	B	838	CLA	C1B-CHB	-3.63	1.30	1.41
13	B	836	CLA	C1B-CHB	-3.63	1.30	1.41
13	A	807	CLA	C1B-CHB	-3.63	1.30	1.41
13	A	806	CLA	C1B-CHB	-3.62	1.30	1.41
13	B	814	CLA	C1B-CHB	-3.62	1.30	1.41
13	A	823	CLA	C1B-CHB	-3.62	1.30	1.41
13	A	841	CLA	C1B-CHB	-3.61	1.30	1.41
13	J	1101	CLA	C1B-CHB	-3.61	1.31	1.41
13	B	812	CLA	C1B-CHB	-3.61	1.31	1.41
13	B	820	CLA	C1B-CHB	-3.61	1.31	1.41
13	A	821	CLA	C1B-CHB	-3.61	1.31	1.41
13	J	1103	CLA	MG-ND	-3.61	1.98	2.05
13	A	843	CLA	C1B-CHB	-3.60	1.31	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	814	CLA	MG-ND	-3.60	1.98	2.05
13	I	101	CLA	C4D-ND	-3.59	1.32	1.37
13	A	830	CLA	C1B-CHB	-3.59	1.31	1.41
13	A	827	CLA	C1B-CHB	-3.59	1.31	1.41
13	B	805	CLA	C1B-CHB	-3.59	1.31	1.41
13	B	811	CLA	C2-C3	3.58	1.41	1.33
13	B	835	CLA	C1B-CHB	-3.57	1.31	1.41
13	A	805	CLA	MG-ND	-3.57	1.98	2.05
15	A	852	BCR	C21-C22	3.56	1.40	1.35
15	A	850	BCR	C20-C21	3.56	1.54	1.43
15	B	842	BCR	C20-C21	3.56	1.54	1.43
15	A	850	BCR	C23-C22	3.55	1.53	1.45
13	A	812	CLA	C1B-CHB	-3.55	1.31	1.41
15	B	844	BCR	C20-C21	3.55	1.54	1.43
13	B	830	CLA	MG-ND	-3.54	1.98	2.05
13	A	840	CLA	C1B-CHB	-3.54	1.31	1.41
15	A	848	BCR	C20-C21	3.53	1.54	1.43
15	A	851	BCR	C20-C21	3.53	1.54	1.43
14	B	840	PQN	C12-C13	3.53	1.41	1.33
15	A	850	BCR	C17-C18	3.53	1.40	1.35
15	J	1105	BCR	C20-C21	3.52	1.54	1.43
13	F	1301	CLA	C1D-C2D	-3.52	1.38	1.45
13	A	807	CLA	C1D-C2D	-3.52	1.38	1.45
15	A	852	BCR	C23-C22	3.51	1.53	1.45
15	L	1005	BCR	C20-C21	3.51	1.54	1.43
15	B	844	BCR	C17-C18	3.51	1.40	1.35
13	A	832	CLA	C1B-CHB	-3.51	1.31	1.41
15	B	850	BCR	C20-C21	3.50	1.54	1.43
15	B	842	BCR	C23-C22	3.50	1.53	1.45
13	A	844	CLA	C4D-CHA	-3.50	1.33	1.44
13	B	835	CLA	O2D-CED	-3.50	1.37	1.45
15	B	845	BCR	C20-C21	3.50	1.54	1.43
13	B	802	CLA	C4D-ND	-3.49	1.32	1.37
15	L	1006	BCR	C20-C21	3.49	1.54	1.43
16	A	854	LHG	O7-C5	-3.48	1.37	1.46
16	X	101	LHG	O7-C5	-3.48	1.37	1.46
15	J	1105	BCR	C23-C22	3.47	1.53	1.45
15	J	1104	BCR	C20-C21	3.46	1.54	1.43
13	A	830	CLA	MG-ND	-3.46	1.98	2.05
15	M	1203	BCR	C20-C21	3.45	1.54	1.43
13	A	804	CLA	C1D-C2D	-3.44	1.38	1.45
15	B	845	BCR	C23-C22	3.44	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	J	1104	BCR	C23-C22	3.43	1.53	1.45
15	A	848	BCR	C23-C22	3.43	1.53	1.45
15	B	847	BCR	C20-C21	3.43	1.54	1.43
13	B	802	CLA	C1D-C2D	-3.43	1.38	1.45
13	A	822	CLA	C4D-ND	-3.43	1.33	1.37
15	B	846	BCR	C20-C21	3.42	1.54	1.43
13	A	823	CLA	C1D-C2D	-3.42	1.38	1.45
15	B	847	BCR	C23-C22	3.41	1.53	1.45
15	A	847	BCR	C20-C21	3.41	1.54	1.43
13	X	102	CLA	C4D-ND	-3.40	1.33	1.37
13	A	825	CLA	C2-C3	3.39	1.41	1.33
13	A	809	CLA	C1D-C2D	-3.39	1.38	1.45
15	B	849	BCR	C20-C21	3.39	1.54	1.43
13	A	818	CLA	C1D-C2D	-3.39	1.38	1.45
13	B	808	CLA	C1D-C2D	-3.39	1.38	1.45
13	A	805	CLA	C2-C3	3.39	1.41	1.33
13	A	826	CLA	C2-C3	3.38	1.41	1.33
15	B	846	BCR	C23-C22	3.38	1.53	1.45
13	A	839	CLA	C1D-C2D	-3.37	1.38	1.45
15	A	852	BCR	C17-C18	3.36	1.40	1.35
13	A	824	CLA	C4D-ND	-3.36	1.33	1.37
13	B	831	CLA	C1D-C2D	-3.35	1.38	1.45
13	B	838	CLA	C1D-C2D	-3.35	1.38	1.45
15	F	1302	BCR	C20-C21	3.35	1.53	1.43
13	A	837	CLA	O2D-CED	-3.35	1.37	1.45
13	B	815	CLA	C1D-C2D	-3.35	1.38	1.45
15	J	1104	BCR	C17-C18	3.35	1.40	1.35
15	M	1203	BCR	C23-C22	3.35	1.53	1.45
13	A	832	CLA	C2-C3	3.34	1.41	1.33
15	B	844	BCR	C23-C22	3.34	1.53	1.45
15	A	847	BCR	C23-C22	3.34	1.53	1.45
13	J	1103	CLA	C4D-CHA	-3.34	1.34	1.44
15	B	843	BCR	C20-C21	3.34	1.53	1.43
15	B	841	BCR	C20-C21	3.33	1.53	1.43
13	A	842	CLA	C2-C3	3.33	1.41	1.33
15	L	1006	BCR	C23-C22	3.33	1.53	1.45
13	B	826	CLA	C2-C3	3.33	1.41	1.33
15	B	847	BCR	C17-C18	3.33	1.40	1.35
13	A	808	CLA	C2-C3	3.33	1.41	1.33
13	A	840	CLA	C1C-C2C	3.33	1.51	1.44
13	B	827	CLA	C2-C3	3.32	1.41	1.33
13	B	817	CLA	C1D-C2D	-3.32	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	814	CLA	C4D-ND	-3.32	1.33	1.37
13	A	828	CLA	C1D-C2D	-3.32	1.38	1.45
13	A	840	CLA	C1D-C2D	-3.32	1.38	1.45
13	I	101	CLA	C1D-C2D	-3.32	1.38	1.45
13	A	805	CLA	C1D-C2D	-3.31	1.38	1.45
13	B	827	CLA	C1C-C2C	3.31	1.51	1.44
13	A	837	CLA	C4D-ND	-3.31	1.33	1.37
13	A	811	CLA	C1D-C2D	-3.31	1.38	1.45
13	A	836	CLA	C1D-C2D	-3.31	1.38	1.45
15	A	851	BCR	C23-C22	3.31	1.53	1.45
15	J	1105	BCR	C17-C18	3.31	1.40	1.35
13	B	814	CLA	C1D-C2D	-3.30	1.38	1.45
13	L	1003	CLA	C4D-ND	-3.30	1.33	1.37
13	B	835	CLA	C2-C3	3.30	1.40	1.33
13	X	102	CLA	O2A-CGA	3.30	1.41	1.30
13	B	827	CLA	C1D-C2D	-3.30	1.38	1.45
15	A	848	BCR	C17-C18	3.30	1.40	1.35
13	B	828	CLA	O2A-CGA	3.30	1.41	1.30
13	A	840	CLA	C4D-ND	-3.30	1.33	1.37
13	A	842	CLA	C1D-C2D	-3.29	1.38	1.45
13	A	807	CLA	O2D-CGD	3.29	1.41	1.33
13	J	1102	CLA	O2A-CGA	3.29	1.41	1.30
15	B	841	BCR	C23-C22	3.29	1.53	1.45
13	A	855	CLA	O2A-CGA	3.29	1.41	1.30
13	F	1301	CLA	O2A-CGA	3.29	1.41	1.30
13	A	837	CLA	C2-C3	3.29	1.40	1.33
13	B	813	CLA	O2A-CGA	3.29	1.41	1.30
13	A	827	CLA	C1D-C2D	-3.29	1.38	1.45
13	A	814	CLA	O2D-CED	-3.29	1.37	1.45
15	A	852	BCR	C19-C18	3.29	1.53	1.45
13	B	833	CLA	O2A-CGA	3.28	1.41	1.30
13	A	809	CLA	C2-C3	3.28	1.40	1.33
13	A	811	CLA	C2-C3	3.28	1.40	1.33
13	A	835	CLA	C2-C3	3.28	1.40	1.33
13	B	805	CLA	C4C-C3C	3.28	1.50	1.45
15	B	842	BCR	C17-C18	3.28	1.40	1.35
13	A	815	CLA	O2A-CGA	3.28	1.41	1.30
13	B	821	CLA	O2A-CGA	3.28	1.41	1.30
15	B	850	BCR	C23-C22	3.28	1.53	1.45
13	B	819	CLA	O2A-CGA	3.28	1.41	1.30
13	B	834	CLA	O2A-CGA	3.27	1.41	1.30
13	A	834	CLA	C1D-C2D	-3.27	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	M	1201	CLA	C2-C3	3.27	1.40	1.33
13	A	801	CLA	C2-C3	3.27	1.40	1.33
13	A	838	CLA	C4D-ND	-3.27	1.33	1.37
13	B	838	CLA	C1C-C2C	3.27	1.50	1.44
13	A	817	CLA	C1D-C2D	-3.26	1.38	1.45
13	B	830	CLA	C2-C3	3.26	1.40	1.33
13	B	825	CLA	C1D-C2D	-3.26	1.38	1.45
13	A	844	CLA	O2A-CGA	3.26	1.41	1.30
13	B	809	CLA	O2A-CGA	3.26	1.41	1.30
13	A	826	CLA	C1D-C2D	-3.26	1.38	1.45
16	A	853	LHG	O7-C5	-3.26	1.38	1.46
13	A	836	CLA	O2A-CGA	3.26	1.41	1.30
15	I	102	BCR	C20-C21	3.26	1.53	1.43
13	B	833	CLA	C1D-C2D	-3.25	1.38	1.45
13	A	837	CLA	C1D-C2D	-3.25	1.38	1.45
13	A	814	CLA	C1C-C2C	3.25	1.50	1.44
13	B	822	CLA	C1D-C2D	-3.25	1.38	1.45
13	A	807	CLA	C1C-C2C	3.25	1.50	1.44
13	B	806	CLA	C1D-C2D	-3.25	1.38	1.45
13	A	804	CLA	C2-C3	3.25	1.40	1.33
13	A	820	CLA	C1D-C2D	-3.25	1.38	1.45
13	B	820	CLA	C1D-C2D	-3.25	1.38	1.45
13	A	834	CLA	C2-C3	3.25	1.40	1.33
13	B	815	CLA	C2-C3	3.25	1.40	1.33
13	B	830	CLA	C1D-C2D	-3.25	1.38	1.45
13	A	810	CLA	O2A-CGA	3.24	1.41	1.30
13	B	822	CLA	C2-C3	3.24	1.40	1.33
13	A	830	CLA	C2-C3	3.24	1.40	1.33
13	B	831	CLA	C2-C3	3.24	1.40	1.33
13	B	824	CLA	C2-C3	3.24	1.40	1.33
13	B	826	CLA	O2D-CED	-3.24	1.37	1.45
15	L	1005	BCR	C23-C22	3.24	1.52	1.45
15	A	849	BCR	C20-C21	3.24	1.53	1.43
13	L	1002	CLA	C4D-ND	-3.24	1.33	1.37
15	M	1203	BCR	C17-C18	3.24	1.40	1.35
13	M	1201	CLA	C1D-C2D	-3.23	1.38	1.45
15	B	850	BCR	C17-C18	3.23	1.40	1.35
15	A	850	BCR	C11-C10	3.23	1.53	1.43
13	A	831	CLA	C4D-ND	-3.23	1.33	1.37
13	A	834	CLA	C4D-ND	-3.23	1.33	1.37
13	M	1202	CLA	O2A-CGA	3.23	1.41	1.30
13	B	810	CLA	O2A-CGA	3.23	1.41	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	B	842	BCR	C8-C9	3.23	1.52	1.45
13	A	838	CLA	C1D-C2D	-3.23	1.39	1.45
13	B	836	CLA	C2-C3	3.22	1.40	1.33
15	B	849	BCR	C23-C22	3.22	1.52	1.45
13	B	812	CLA	C1D-C2D	-3.22	1.39	1.45
13	B	832	CLA	C1C-C2C	3.22	1.50	1.44
15	J	1104	BCR	C8-C9	3.22	1.52	1.45
15	B	844	BCR	C21-C22	3.22	1.40	1.35
13	A	817	CLA	C2-C3	3.22	1.40	1.33
13	B	823	CLA	C1D-C2D	-3.22	1.39	1.45
13	B	807	CLA	C1C-C2C	3.22	1.50	1.44
13	B	839	CLA	C2-C3	3.22	1.40	1.33
15	B	844	BCR	C15-C14	3.22	1.53	1.43
13	B	814	CLA	C2-C3	3.22	1.40	1.33
13	A	843	CLA	C1D-C2D	-3.22	1.39	1.45
13	A	814	CLA	O2A-CGA	3.22	1.41	1.30
15	B	842	BCR	C15-C14	3.21	1.53	1.43
13	A	821	CLA	C2-C3	3.21	1.40	1.33
13	B	838	CLA	C2-C3	3.21	1.40	1.33
13	A	814	CLA	C1D-C2D	-3.21	1.39	1.45
13	B	802	CLA	C1C-C2C	3.21	1.50	1.44
15	A	851	BCR	C21-C22	3.21	1.40	1.35
13	X	102	CLA	C1D-C2D	-3.20	1.39	1.45
15	F	1302	BCR	C17-C18	3.20	1.40	1.35
13	A	840	CLA	C2-C3	3.20	1.40	1.33
13	A	832	CLA	O2A-CGA	3.20	1.42	1.33
13	M	1202	CLA	C1D-C2D	-3.20	1.39	1.45
13	A	833	CLA	C2-C3	3.20	1.40	1.33
15	L	1006	BCR	C15-C14	3.20	1.53	1.43
13	A	837	CLA	O2A-CGA	3.20	1.42	1.33
15	A	852	BCR	C16-C17	3.20	1.53	1.43
13	B	808	CLA	C1C-C2C	3.20	1.50	1.44
13	A	808	CLA	C1C-C2C	3.19	1.50	1.44
13	B	831	CLA	C4D-ND	-3.19	1.33	1.37
15	B	845	BCR	C21-C22	3.19	1.40	1.35
15	A	847	BCR	C15-C14	3.19	1.53	1.43
13	L	1002	CLA	C1C-C2C	3.19	1.50	1.44
13	A	822	CLA	C1D-C2D	-3.19	1.39	1.45
13	B	811	CLA	C1C-C2C	3.19	1.50	1.44
13	A	831	CLA	C1D-C2D	-3.19	1.39	1.45
13	A	824	CLA	C2-C3	3.19	1.40	1.33
13	B	830	CLA	C4B-NB	3.19	1.38	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	833	CLA	C1D-C2D	-3.19	1.39	1.45
13	B	811	CLA	O2A-CGA	3.19	1.42	1.33
13	B	821	CLA	C4D-ND	-3.18	1.33	1.37
15	A	847	BCR	C17-C18	3.18	1.40	1.35
13	A	827	CLA	C2-C3	3.18	1.40	1.33
13	A	809	CLA	C1C-C2C	3.18	1.50	1.44
13	B	832	CLA	O2A-CGA	3.18	1.41	1.30
15	A	849	BCR	C23-C22	3.18	1.52	1.45
15	B	843	BCR	C17-C18	3.18	1.40	1.35
13	A	839	CLA	C1C-C2C	3.18	1.50	1.44
13	B	801	CLA	C1D-C2D	-3.18	1.39	1.45
15	A	847	BCR	C8-C9	3.18	1.52	1.45
15	F	1302	BCR	C15-C14	3.18	1.53	1.43
13	A	844	CLA	C1C-C2C	3.18	1.50	1.44
15	B	847	BCR	C15-C14	3.18	1.53	1.43
13	A	845	CLA	C2-C3	3.18	1.40	1.33
13	B	816	CLA	C4D-ND	-3.18	1.33	1.37
13	B	825	CLA	C1C-C2C	3.17	1.50	1.44
15	A	848	BCR	C15-C14	3.17	1.53	1.43
13	A	838	CLA	C2-C3	3.17	1.40	1.33
15	A	850	BCR	C15-C14	3.17	1.53	1.43
13	A	826	CLA	C1C-C2C	3.17	1.50	1.44
13	A	802	CLA	C2-C3	3.17	1.40	1.33
13	B	835	CLA	O2A-CGA	3.17	1.42	1.33
13	A	827	CLA	C4D-ND	-3.17	1.33	1.37
13	A	829	CLA	C2-C3	3.17	1.40	1.33
13	A	813	CLA	C1C-C2C	3.17	1.50	1.44
15	A	850	BCR	C21-C22	3.17	1.40	1.35
13	J	1101	CLA	C2-C3	3.17	1.40	1.33
13	A	804	CLA	C1C-C2C	3.17	1.50	1.44
13	A	828	CLA	C1C-C2C	3.17	1.50	1.44
16	A	854	LHG	O8-C6	-3.17	1.37	1.45
13	A	844	CLA	C4C-C3C	3.17	1.50	1.45
13	B	804	CLA	C1D-C2D	-3.17	1.39	1.45
13	F	1301	CLA	C1C-C2C	3.17	1.50	1.44
13	A	812	CLA	C1D-C2D	-3.17	1.39	1.45
13	B	805	CLA	C2-C3	3.17	1.40	1.33
13	L	1003	CLA	C2-C3	3.17	1.40	1.33
13	B	825	CLA	C2-C3	3.17	1.40	1.33
13	B	813	CLA	C4D-ND	-3.16	1.33	1.37
15	B	842	BCR	C16-C17	3.16	1.53	1.43
15	B	850	BCR	C11-C10	3.16	1.53	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	813	CLA	C1D-C2D	-3.16	1.39	1.45
13	M	1202	CLA	C1C-C2C	3.16	1.50	1.44
13	A	815	CLA	C4D-ND	-3.16	1.33	1.37
15	I	102	BCR	C17-C18	3.16	1.40	1.35
13	A	845	CLA	C4C-C3C	3.16	1.50	1.45
13	B	803	CLA	C2-C3	3.16	1.40	1.33
15	F	1302	BCR	C23-C22	3.16	1.52	1.45
15	L	1005	BCR	C17-C18	3.16	1.40	1.35
13	B	818	CLA	C1C-C2C	3.16	1.50	1.44
15	A	850	BCR	C12-C13	3.16	1.52	1.45
13	B	837	CLA	C1D-C2D	-3.16	1.39	1.45
13	A	810	CLA	C1D-C2D	-3.15	1.39	1.45
15	A	850	BCR	C19-C18	3.15	1.52	1.45
13	B	832	CLA	C1D-C2D	-3.15	1.39	1.45
15	J	1104	BCR	C11-C10	3.15	1.53	1.43
13	B	834	CLA	C1D-C2D	-3.15	1.39	1.45
15	B	841	BCR	C8-C9	3.15	1.52	1.45
13	L	1002	CLA	C2-C3	3.15	1.40	1.33
15	B	841	BCR	C17-C18	3.15	1.40	1.35
13	L	1004	CLA	C1D-C2D	-3.15	1.39	1.45
13	B	824	CLA	C1C-C2C	3.15	1.50	1.44
15	B	850	BCR	C8-C9	3.15	1.52	1.45
13	A	823	CLA	C1C-C2C	3.15	1.50	1.44
13	B	811	CLA	C4D-ND	-3.15	1.33	1.37
13	B	816	CLA	C1D-C2D	-3.15	1.39	1.45
15	J	1104	BCR	C15-C14	3.15	1.53	1.43
15	B	844	BCR	C16-C17	3.14	1.53	1.43
13	A	803	CLA	C4D-ND	-3.14	1.33	1.37
13	B	824	CLA	C1D-C2D	-3.14	1.39	1.45
15	J	1105	BCR	C15-C14	3.14	1.53	1.43
13	A	801	CLA	C1D-C2D	-3.14	1.39	1.45
13	A	806	CLA	C1D-C2D	-3.14	1.39	1.45
13	B	835	CLA	C1D-C2D	-3.14	1.39	1.45
13	B	809	CLA	C1D-C2D	-3.14	1.39	1.45
13	B	828	CLA	C1D-C2D	-3.14	1.39	1.45
13	B	808	CLA	C2-C3	3.14	1.40	1.33
13	A	821	CLA	C1D-C2D	-3.14	1.39	1.45
13	A	812	CLA	C2-C3	3.14	1.40	1.33
13	A	838	CLA	C1C-C2C	3.14	1.50	1.44
15	B	846	BCR	C15-C14	3.14	1.53	1.43
13	A	841	CLA	C2-C3	3.14	1.40	1.33
13	A	829	CLA	C4C-C3C	3.14	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	843	CLA	C1C-C2C	3.14	1.50	1.44
13	B	826	CLA	C1D-C2D	-3.13	1.39	1.45
13	A	820	CLA	C2-C3	3.13	1.40	1.33
13	A	826	CLA	O2A-CGA	3.13	1.42	1.33
13	I	101	CLA	C2-C3	3.13	1.40	1.33
13	B	819	CLA	C1D-C2D	-3.13	1.39	1.45
13	A	813	CLA	C2-C3	3.13	1.40	1.33
13	B	839	CLA	C4C-C3C	3.13	1.50	1.45
13	B	806	CLA	C4D-ND	-3.13	1.33	1.37
13	J	1101	CLA	C1D-C2D	-3.13	1.39	1.45
13	A	832	CLA	C1C-C2C	3.12	1.50	1.44
13	A	825	CLA	C1D-C2D	-3.12	1.39	1.45
13	B	837	CLA	C1C-C2C	3.12	1.50	1.44
13	A	825	CLA	C4D-ND	-3.12	1.33	1.37
13	B	836	CLA	C1C-C2C	3.12	1.50	1.44
13	A	823	CLA	C2-C3	3.12	1.40	1.33
15	A	850	BCR	C16-C17	3.12	1.53	1.43
15	A	851	BCR	C8-C9	3.12	1.52	1.45
13	B	817	CLA	C2-C3	3.12	1.40	1.33
15	B	844	BCR	C19-C18	3.12	1.52	1.45
15	B	843	BCR	C15-C14	3.12	1.53	1.43
13	B	811	CLA	C1D-C2D	-3.12	1.39	1.45
13	A	817	CLA	C1C-C2C	3.12	1.50	1.44
13	A	806	CLA	C4C-C3C	3.12	1.50	1.45
13	B	818	CLA	C1D-C2D	-3.12	1.39	1.45
13	J	1103	CLA	C4C-C3C	3.11	1.50	1.45
16	X	101	LHG	O8-C6	-3.11	1.38	1.45
15	B	842	BCR	C19-C18	3.11	1.52	1.45
13	B	806	CLA	C1C-C2C	3.11	1.50	1.44
15	L	1005	BCR	C11-C10	3.11	1.53	1.43
15	F	1302	BCR	C16-C17	3.11	1.53	1.43
13	A	835	CLA	C1D-C2D	-3.11	1.39	1.45
13	A	802	CLA	C1D-C2D	-3.11	1.39	1.45
15	B	849	BCR	C15-C14	3.10	1.53	1.43
13	M	1201	CLA	O2A-CGA	3.10	1.42	1.33
15	B	841	BCR	C15-C14	3.10	1.53	1.43
13	B	813	CLA	C1D-C2D	-3.10	1.39	1.45
13	M	1201	CLA	C1C-C2C	3.10	1.50	1.44
15	A	848	BCR	C19-C18	3.10	1.52	1.45
15	A	848	BCR	C11-C10	3.10	1.53	1.43
13	B	801	CLA	C2-C3	3.10	1.40	1.33
13	L	1004	CLA	C4C-C3C	3.10	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	L	1006	BCR	C17-C18	3.10	1.39	1.35
13	A	831	CLA	O2D-CED	-3.10	1.38	1.45
15	A	851	BCR	C17-C18	3.10	1.39	1.35
13	A	819	CLA	C1D-C2D	-3.10	1.39	1.45
13	B	836	CLA	C1D-C2D	-3.10	1.39	1.45
13	A	808	CLA	O2A-CGA	3.10	1.42	1.33
13	B	811	CLA	C4C-C3C	3.09	1.50	1.45
15	J	1104	BCR	C16-C17	3.09	1.53	1.43
15	L	1006	BCR	C11-C10	3.09	1.53	1.43
15	J	1104	BCR	C19-C18	3.09	1.52	1.45
13	I	101	CLA	C1C-C2C	3.09	1.50	1.44
13	A	811	CLA	C1C-C2C	3.09	1.50	1.44
13	A	830	CLA	C1C-C2C	3.09	1.50	1.44
13	J	1101	CLA	C1C-C2C	3.09	1.50	1.44
13	A	821	CLA	C1C-C2C	3.09	1.50	1.44
15	A	848	BCR	C21-C22	3.09	1.39	1.35
13	A	806	CLA	C1C-C2C	3.09	1.50	1.44
13	A	828	CLA	C2-C3	3.09	1.40	1.33
13	B	829	CLA	C1D-C2D	-3.09	1.39	1.45
13	A	813	CLA	C4C-C3C	3.09	1.50	1.45
13	B	801	CLA	C1C-C2C	3.09	1.50	1.44
15	A	848	BCR	C8-C9	3.09	1.52	1.45
15	B	843	BCR	C11-C10	3.09	1.53	1.43
13	A	841	CLA	C4C-C3C	3.09	1.50	1.45
13	A	802	CLA	C4C-C3C	3.08	1.50	1.45
15	A	852	BCR	C15-C14	3.08	1.53	1.43
15	A	847	BCR	C16-C17	3.08	1.53	1.43
15	A	851	BCR	C15-C14	3.08	1.53	1.43
15	B	842	BCR	C11-C10	3.08	1.53	1.43
13	L	1004	CLA	C2-C3	3.08	1.40	1.33
13	A	832	CLA	C4D-ND	-3.08	1.33	1.37
15	B	841	BCR	C11-C10	3.08	1.53	1.43
13	A	831	CLA	C1C-C2C	3.08	1.50	1.44
13	A	824	CLA	C4C-C3C	3.08	1.50	1.45
15	B	845	BCR	C17-C18	3.08	1.39	1.35
15	A	847	BCR	C11-C10	3.08	1.53	1.43
15	M	1203	BCR	C15-C14	3.08	1.53	1.43
15	B	846	BCR	C8-C9	3.08	1.52	1.45
13	L	1003	CLA	O2A-CGA	3.08	1.42	1.33
13	B	802	CLA	C2-C3	3.08	1.40	1.33
13	B	810	CLA	C1D-C2D	-3.08	1.39	1.45
13	A	825	CLA	C1C-C2C	3.08	1.50	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	833	CLA	C1C-C2C	3.07	1.50	1.44
15	B	850	BCR	C15-C14	3.07	1.53	1.43
15	I	102	BCR	C23-C22	3.07	1.52	1.45
15	B	847	BCR	C16-C17	3.07	1.53	1.43
15	J	1105	BCR	C21-C22	3.07	1.39	1.35
13	B	816	CLA	C2-C3	3.07	1.40	1.33
13	A	836	CLA	C1C-C2C	3.07	1.50	1.44
13	A	803	CLA	C1D-C2D	-3.07	1.39	1.45
13	J	1103	CLA	C1C-C2C	3.07	1.50	1.44
13	A	830	CLA	C1D-C2D	-3.07	1.39	1.45
13	A	837	CLA	C1C-C2C	3.07	1.50	1.44
13	M	1201	CLA	C4D-ND	-3.06	1.33	1.37
15	B	845	BCR	C8-C9	3.06	1.52	1.45
15	B	850	BCR	C21-C22	3.06	1.39	1.35
15	A	850	BCR	C8-C9	3.06	1.52	1.45
13	J	1102	CLA	C1C-C2C	3.06	1.50	1.44
13	B	819	CLA	C4C-C3C	3.06	1.50	1.45
13	A	802	CLA	O2A-CGA	3.06	1.42	1.33
13	B	824	CLA	O2A-CGA	3.06	1.42	1.33
13	A	803	CLA	C1C-C2C	3.06	1.50	1.44
13	B	815	CLA	C4C-C3C	3.06	1.50	1.45
13	A	803	CLA	C2-C3	3.06	1.40	1.33
15	A	848	BCR	C16-C17	3.06	1.52	1.43
15	B	843	BCR	C19-C18	3.06	1.52	1.45
13	B	823	CLA	C4C-C3C	3.06	1.50	1.45
15	L	1005	BCR	C15-C14	3.06	1.52	1.43
13	A	855	CLA	C4D-ND	-3.06	1.33	1.37
13	B	812	CLA	C4D-ND	-3.05	1.33	1.37
15	F	1302	BCR	C8-C9	3.05	1.52	1.45
15	B	846	BCR	C17-C18	3.05	1.39	1.35
15	B	849	BCR	C21-C22	3.05	1.39	1.35
15	M	1203	BCR	C19-C18	3.05	1.52	1.45
13	B	830	CLA	C1C-C2C	3.05	1.50	1.44
13	A	812	CLA	C4D-ND	-3.05	1.33	1.37
13	J	1102	CLA	C1D-C2D	-3.05	1.39	1.45
13	L	1003	CLA	C1D-C2D	-3.05	1.39	1.45
13	B	803	CLA	C1D-C2D	-3.05	1.39	1.45
13	A	805	CLA	C1C-C2C	3.05	1.50	1.44
13	A	825	CLA	O2A-CGA	3.05	1.42	1.33
13	B	801	CLA	O2A-CGA	3.05	1.42	1.33
13	B	807	CLA	C2-C3	3.05	1.40	1.33
13	B	834	CLA	C1C-C2C	3.05	1.50	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	812	CLA	C2-C3	3.05	1.40	1.33
13	A	802	CLA	C1C-C2C	3.05	1.50	1.44
15	J	1105	BCR	C16-C17	3.05	1.52	1.43
13	B	806	CLA	C2-C3	3.04	1.40	1.33
13	B	815	CLA	C4D-ND	-3.04	1.33	1.37
13	B	832	CLA	C4D-ND	-3.04	1.33	1.37
13	B	807	CLA	C4B-NB	3.04	1.37	1.35
13	B	839	CLA	C1D-C2D	-3.04	1.39	1.45
13	A	801	CLA	C1C-C2C	3.04	1.50	1.44
13	A	816	CLA	C1C-C2C	3.04	1.50	1.44
13	B	824	CLA	C4C-C3C	3.04	1.50	1.45
13	A	841	CLA	C4D-ND	-3.04	1.33	1.37
15	B	850	BCR	C19-C18	3.04	1.52	1.45
13	A	816	CLA	C4D-ND	-3.04	1.33	1.37
13	M	1202	CLA	C4C-C3C	3.04	1.50	1.45
13	A	842	CLA	C1C-C2C	3.04	1.50	1.44
13	A	829	CLA	C1C-C2C	3.04	1.50	1.44
15	B	841	BCR	C16-C17	3.04	1.52	1.43
13	B	820	CLA	C1C-C2C	3.04	1.50	1.44
13	A	841	CLA	C1D-C2D	-3.04	1.39	1.45
13	A	819	CLA	C2-C3	3.04	1.40	1.33
15	B	847	BCR	C11-C10	3.04	1.52	1.43
15	L	1006	BCR	C16-C17	3.04	1.52	1.43
13	B	823	CLA	C1C-C2C	3.03	1.50	1.44
15	J	1105	BCR	C11-C10	3.03	1.52	1.43
15	J	1105	BCR	C19-C18	3.03	1.52	1.45
13	B	818	CLA	C4D-ND	-3.03	1.33	1.37
15	B	849	BCR	C16-C17	3.03	1.52	1.43
15	B	847	BCR	C8-C9	3.03	1.52	1.45
13	A	815	CLA	C4C-C3C	3.03	1.50	1.45
13	A	843	CLA	C4D-ND	-3.03	1.33	1.37
13	B	816	CLA	C1C-C2C	3.03	1.50	1.44
13	B	804	CLA	O2A-CGA	3.03	1.42	1.33
15	I	102	BCR	C15-C14	3.03	1.52	1.43
15	B	850	BCR	C16-C17	3.03	1.52	1.43
15	J	1105	BCR	C8-C9	3.03	1.52	1.45
13	A	827	CLA	O2A-CGA	3.03	1.42	1.33
15	B	843	BCR	C23-C22	3.03	1.52	1.45
15	B	846	BCR	C21-C22	3.03	1.39	1.35
15	M	1203	BCR	C16-C17	3.03	1.52	1.43
15	L	1006	BCR	C19-C18	3.03	1.52	1.45
13	B	824	CLA	C4D-ND	-3.03	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	B	850	BCR	C12-C13	3.03	1.52	1.45
15	B	843	BCR	C12-C13	3.03	1.52	1.45
13	B	803	CLA	C4D-ND	-3.02	1.33	1.37
15	A	851	BCR	C11-C10	3.02	1.52	1.43
13	B	802	CLA	O2A-CGA	3.02	1.42	1.33
13	B	801	CLA	C4C-C3C	3.02	1.50	1.45
15	L	1005	BCR	C19-C18	3.02	1.52	1.45
15	B	846	BCR	C19-C18	3.02	1.52	1.45
13	A	855	CLA	C1D-C2D	-3.02	1.39	1.45
15	A	851	BCR	C19-C18	3.02	1.52	1.45
13	J	1102	CLA	C4D-ND	-3.02	1.33	1.37
13	B	812	CLA	C1C-C2C	3.02	1.50	1.44
13	A	835	CLA	C1C-C2C	3.02	1.50	1.44
13	B	821	CLA	C1D-C2D	-3.02	1.39	1.45
15	B	845	BCR	C15-C14	3.02	1.52	1.43
15	B	842	BCR	C21-C22	3.02	1.39	1.35
13	B	804	CLA	C2-C3	3.02	1.40	1.33
15	B	843	BCR	C8-C9	3.01	1.52	1.45
13	B	834	CLA	C4C-C3C	3.01	1.50	1.45
13	A	808	CLA	O2D-CED	-3.01	1.38	1.45
13	A	855	CLA	C4C-C3C	3.01	1.50	1.45
15	B	846	BCR	C11-C10	3.01	1.52	1.43
15	B	843	BCR	C16-C17	3.01	1.52	1.43
15	B	849	BCR	C17-C18	3.01	1.39	1.35
15	F	1302	BCR	C11-C10	3.01	1.52	1.43
13	A	806	CLA	C2-C3	3.01	1.40	1.33
13	B	812	CLA	C4C-C3C	3.01	1.50	1.45
13	B	809	CLA	C1C-C2C	3.01	1.50	1.44
13	B	826	CLA	C4D-ND	-3.01	1.33	1.37
15	A	847	BCR	C14-C13	3.01	1.39	1.35
13	A	835	CLA	C4C-C3C	3.01	1.50	1.45
13	B	837	CLA	C4D-ND	-3.01	1.33	1.37
15	B	846	BCR	C16-C17	3.01	1.52	1.43
15	B	845	BCR	C16-C17	3.01	1.52	1.43
15	B	845	BCR	C19-C18	3.01	1.52	1.45
13	A	841	CLA	O2A-CGA	3.01	1.42	1.33
15	A	851	BCR	C16-C17	3.00	1.52	1.43
13	A	844	CLA	C1D-ND	-3.00	1.34	1.37
15	L	1005	BCR	C12-C13	3.00	1.52	1.45
13	B	818	CLA	O2D-CED	-3.00	1.38	1.45
13	A	839	CLA	C4C-C3C	3.00	1.50	1.45
13	B	822	CLA	C4C-C3C	3.00	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	M	1203	BCR	C21-C22	3.00	1.39	1.35
13	B	831	CLA	O2D-CED	-3.00	1.38	1.45
13	A	812	CLA	C1C-C2C	3.00	1.50	1.44
13	B	815	CLA	O2D-CED	-3.00	1.38	1.45
13	B	808	CLA	C4D-ND	-3.00	1.33	1.37
13	A	822	CLA	O2A-CGA	3.00	1.42	1.33
13	A	824	CLA	C1C-C2C	3.00	1.50	1.44
13	B	829	CLA	C1C-C2C	3.00	1.50	1.44
13	X	102	CLA	C1D-ND	-2.99	1.34	1.37
13	B	818	CLA	C4C-C3C	2.99	1.50	1.45
13	A	855	CLA	C1C-C2C	2.99	1.50	1.44
13	B	808	CLA	C4C-C3C	2.99	1.50	1.45
13	A	808	CLA	C4D-ND	-2.99	1.33	1.37
16	A	853	LHG	O8-C6	-2.99	1.38	1.45
15	A	848	BCR	C14-C13	2.99	1.39	1.35
15	A	852	BCR	C11-C10	2.99	1.52	1.43
13	B	831	CLA	O2A-CGA	2.99	1.42	1.33
13	B	836	CLA	C4D-ND	-2.99	1.33	1.37
13	J	1103	CLA	C1D-C2D	-2.99	1.39	1.45
13	L	1004	CLA	C1C-C2C	2.99	1.50	1.44
13	A	833	CLA	C4C-C3C	2.99	1.50	1.45
13	B	817	CLA	C4C-C3C	2.99	1.50	1.45
13	A	818	CLA	C2-C3	2.99	1.40	1.33
13	B	839	CLA	C1C-C2C	2.99	1.50	1.44
13	B	815	CLA	C1C-C2C	2.99	1.50	1.44
13	A	816	CLA	C4C-C3C	2.99	1.50	1.45
13	B	837	CLA	C4C-C3C	2.99	1.50	1.45
13	B	804	CLA	C1C-C2C	2.98	1.50	1.44
13	B	822	CLA	O2A-CGA	2.98	1.42	1.33
13	B	808	CLA	O2A-CGA	2.98	1.42	1.33
13	A	836	CLA	C1D-ND	-2.98	1.34	1.37
13	A	830	CLA	O2A-CGA	2.98	1.42	1.33
15	B	842	BCR	C14-C13	2.98	1.39	1.35
13	A	832	CLA	C4C-C3C	2.98	1.50	1.45
13	A	822	CLA	C1C-C2C	2.98	1.50	1.44
13	A	842	CLA	C4D-ND	-2.98	1.33	1.37
13	A	816	CLA	C1D-C2D	-2.98	1.39	1.45
15	M	1203	BCR	C11-C10	2.98	1.52	1.43
13	B	808	CLA	C1D-ND	-2.98	1.34	1.37
13	A	811	CLA	O2A-CGA	2.97	1.42	1.33
13	A	806	CLA	C4D-ND	-2.97	1.33	1.37
13	B	801	CLA	C4D-ND	-2.97	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	I	101	CLA	C1D-ND	-2.97	1.34	1.37
13	A	801	CLA	O2A-CGA	2.97	1.42	1.33
13	A	813	CLA	C4D-ND	-2.97	1.33	1.37
13	A	805	CLA	C4C-C3C	2.97	1.50	1.45
13	A	841	CLA	C1C-C2C	2.97	1.50	1.44
13	B	805	CLA	C1C-C2C	2.97	1.50	1.44
13	A	821	CLA	C4C-C3C	2.97	1.50	1.45
13	A	819	CLA	C4D-ND	-2.97	1.33	1.37
13	B	817	CLA	C1D-ND	-2.97	1.34	1.37
13	A	817	CLA	C4D-ND	-2.97	1.33	1.37
13	A	803	CLA	C4C-C3C	2.97	1.50	1.45
13	A	804	CLA	O2A-CGA	2.97	1.42	1.33
15	J	1104	BCR	C21-C22	2.97	1.39	1.35
15	I	102	BCR	C16-C17	2.96	1.52	1.43
15	A	849	BCR	C15-C14	2.96	1.52	1.43
13	A	820	CLA	C4C-C3C	2.96	1.50	1.45
13	L	1002	CLA	C4C-C3C	2.96	1.50	1.45
13	B	807	CLA	C1D-ND	-2.96	1.34	1.37
13	B	822	CLA	C1D-ND	-2.96	1.34	1.37
15	A	848	BCR	C12-C13	2.96	1.52	1.45
13	B	809	CLA	C4C-C3C	2.96	1.50	1.45
13	A	833	CLA	C4D-ND	-2.96	1.33	1.37
15	A	847	BCR	C12-C13	2.96	1.52	1.45
13	A	836	CLA	C4C-C3C	2.96	1.50	1.45
13	B	820	CLA	C2-C3	2.96	1.40	1.33
13	B	803	CLA	C1C-C2C	2.96	1.50	1.44
13	B	821	CLA	O2D-CED	-2.96	1.38	1.45
13	A	843	CLA	C2-C3	2.96	1.40	1.33
13	B	813	CLA	C4C-C3C	2.96	1.50	1.45
15	B	847	BCR	C19-C18	2.96	1.52	1.45
15	B	846	BCR	C14-C13	2.95	1.39	1.35
15	J	1105	BCR	C12-C13	2.95	1.52	1.45
13	X	102	CLA	C1C-C2C	2.95	1.50	1.44
13	B	820	CLA	C4C-C3C	2.95	1.50	1.45
13	B	826	CLA	C4C-C3C	2.95	1.50	1.45
13	A	803	CLA	O2D-CED	-2.95	1.38	1.45
15	B	841	BCR	C12-C13	2.95	1.52	1.45
15	L	1005	BCR	C8-C9	2.95	1.52	1.45
13	A	824	CLA	C1D-C2D	-2.95	1.39	1.45
13	J	1101	CLA	O2A-CGA	2.95	1.42	1.33
15	F	1302	BCR	C19-C18	2.95	1.52	1.45
13	A	829	CLA	O2A-CGA	2.95	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	817	CLA	C4C-C3C	2.95	1.50	1.45
15	L	1006	BCR	C8-C9	2.95	1.52	1.45
15	B	845	BCR	C11-C10	2.95	1.52	1.43
13	B	822	CLA	C4D-ND	-2.95	1.33	1.37
13	B	822	CLA	C1C-C2C	2.95	1.50	1.44
13	A	834	CLA	O2A-CGA	2.95	1.41	1.33
15	B	841	BCR	C19-C18	2.94	1.52	1.45
13	J	1102	CLA	C4C-C3C	2.94	1.50	1.45
13	B	818	CLA	O2A-CGA	2.94	1.41	1.33
13	A	840	CLA	C4C-C3C	2.94	1.50	1.45
13	B	821	CLA	C1C-C2C	2.94	1.50	1.44
13	A	820	CLA	C4D-ND	-2.94	1.33	1.37
15	A	849	BCR	C11-C10	2.94	1.52	1.43
13	A	818	CLA	C4C-C3C	2.94	1.50	1.45
13	A	826	CLA	C4D-ND	-2.94	1.33	1.37
13	A	820	CLA	C1D-ND	-2.94	1.34	1.37
13	A	821	CLA	O2A-CGA	2.94	1.41	1.33
13	L	1004	CLA	O2A-CGA	2.94	1.41	1.33
13	A	841	CLA	C1D-ND	-2.94	1.34	1.37
15	I	102	BCR	C8-C9	2.94	1.52	1.45
13	A	801	CLA	C4D-ND	-2.94	1.33	1.37
13	B	810	CLA	C4C-C3C	2.94	1.50	1.45
15	A	852	BCR	C8-C9	2.94	1.52	1.45
15	A	852	BCR	C14-C13	2.93	1.39	1.35
13	A	816	CLA	O2A-CGA	2.93	1.41	1.33
13	A	833	CLA	C4B-NB	2.93	1.37	1.35
15	L	1006	BCR	C21-C22	2.93	1.39	1.35
13	B	814	CLA	C1C-C2C	2.93	1.50	1.44
15	B	849	BCR	C8-C9	2.93	1.52	1.45
13	L	1002	CLA	C1D-C2D	-2.93	1.39	1.45
13	B	838	CLA	C1D-ND	-2.93	1.34	1.37
13	B	831	CLA	C4C-C3C	2.93	1.50	1.45
13	A	810	CLA	C1C-C2C	2.93	1.50	1.44
15	A	847	BCR	C19-C18	2.93	1.52	1.45
13	A	842	CLA	C4C-C3C	2.93	1.50	1.45
13	A	834	CLA	C1D-ND	-2.93	1.34	1.37
13	A	845	CLA	C1D-C2D	-2.93	1.39	1.45
13	B	813	CLA	C1C-C2C	2.93	1.50	1.44
13	A	814	CLA	C4C-C3C	2.93	1.50	1.45
13	A	826	CLA	C4C-C3C	2.93	1.50	1.45
15	B	842	BCR	C12-C13	2.93	1.52	1.45
13	B	825	CLA	C4C-C3C	2.93	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	834	CLA	C4D-ND	-2.93	1.33	1.37
15	A	849	BCR	C8-C9	2.92	1.52	1.45
13	B	810	CLA	C4D-ND	-2.92	1.33	1.37
13	L	1003	CLA	C1C-C2C	2.92	1.50	1.44
13	A	842	CLA	C1D-ND	-2.92	1.34	1.37
13	A	805	CLA	O2A-CGA	2.92	1.41	1.33
13	B	839	CLA	O2A-CGA	2.92	1.41	1.33
13	B	806	CLA	C1D-ND	-2.92	1.34	1.37
13	B	819	CLA	C4D-ND	-2.92	1.33	1.37
13	A	819	CLA	C1D-ND	-2.92	1.34	1.37
13	A	822	CLA	C1D-ND	-2.92	1.34	1.37
13	A	817	CLA	O2A-CGA	2.92	1.41	1.33
13	A	815	CLA	C1D-C2D	-2.92	1.39	1.45
13	L	1003	CLA	C4C-C3C	2.92	1.50	1.45
13	A	820	CLA	O2A-CGA	2.92	1.41	1.33
13	A	839	CLA	O2A-CGA	2.92	1.41	1.33
13	B	828	CLA	C1C-C2C	2.92	1.50	1.44
13	A	804	CLA	O2D-CED	-2.92	1.38	1.45
13	B	805	CLA	C4D-ND	-2.92	1.33	1.37
13	A	812	CLA	C4C-C3C	2.92	1.50	1.45
13	B	838	CLA	C4C-C3C	2.92	1.50	1.45
13	A	833	CLA	C1C-C2C	2.91	1.50	1.44
13	J	1101	CLA	C4C-C3C	2.91	1.50	1.45
13	F	1301	CLA	C4D-ND	-2.91	1.33	1.37
13	J	1103	CLA	C1D-ND	-2.91	1.34	1.37
13	A	803	CLA	O2A-CGA	2.91	1.41	1.33
15	F	1302	BCR	C12-C13	2.91	1.52	1.45
13	B	810	CLA	C1C-C2C	2.91	1.50	1.44
13	B	819	CLA	C1C-C2C	2.91	1.50	1.44
13	A	832	CLA	C1D-C2D	-2.91	1.39	1.45
13	A	804	CLA	C4C-C3C	2.91	1.50	1.45
13	A	802	CLA	C4D-ND	-2.91	1.33	1.37
13	B	827	CLA	O2A-CGA	2.91	1.41	1.33
13	B	818	CLA	C1D-ND	-2.91	1.34	1.37
13	A	801	CLA	C4C-C3C	2.91	1.50	1.45
13	B	823	CLA	C1D-ND	-2.91	1.34	1.37
13	A	831	CLA	C4C-C3C	2.91	1.50	1.45
13	A	835	CLA	C4D-ND	-2.91	1.33	1.37
13	B	831	CLA	C1C-C2C	2.90	1.50	1.44
15	B	846	BCR	C12-C13	2.90	1.52	1.45
15	A	850	BCR	C14-C13	2.90	1.39	1.35
13	A	824	CLA	O2A-CGA	2.90	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	803	CLA	C4C-C3C	2.90	1.50	1.45
15	A	849	BCR	C17-C18	2.90	1.39	1.35
13	A	855	CLA	C1D-ND	-2.90	1.34	1.37
15	L	1005	BCR	C16-C17	2.90	1.52	1.43
13	A	837	CLA	C4C-C3C	2.90	1.50	1.45
13	A	803	CLA	C1D-ND	-2.90	1.34	1.37
13	M	1201	CLA	C4C-C3C	2.90	1.50	1.45
13	A	812	CLA	C1D-ND	-2.90	1.34	1.37
13	B	805	CLA	C1D-C2D	-2.90	1.39	1.45
13	A	802	CLA	C1D-ND	-2.90	1.34	1.37
13	A	809	CLA	C1D-ND	-2.90	1.34	1.37
15	B	841	BCR	C26-C25	2.89	1.39	1.34
13	A	829	CLA	C1D-C2D	-2.89	1.39	1.45
13	A	826	CLA	C1D-ND	-2.89	1.34	1.37
13	B	826	CLA	O2A-CGA	2.89	1.41	1.33
13	B	835	CLA	C4C-C3C	2.89	1.50	1.45
13	A	813	CLA	O2A-CGA	2.89	1.41	1.33
15	A	849	BCR	C16-C17	2.89	1.52	1.43
15	B	849	BCR	C19-C18	2.89	1.52	1.45
13	F	1301	CLA	C4C-C3C	2.89	1.50	1.45
13	A	820	CLA	C1C-C2C	2.89	1.50	1.44
13	A	828	CLA	C4C-C3C	2.89	1.50	1.45
13	I	101	CLA	O2A-CGA	2.89	1.41	1.33
18	B	848	LMG	O8-C28	2.89	1.41	1.33
13	B	809	CLA	C4D-ND	-2.89	1.33	1.37
15	I	102	BCR	C11-C10	2.89	1.52	1.43
13	A	810	CLA	C4C-C3C	2.89	1.50	1.45
13	A	815	CLA	C1C-C2C	2.89	1.50	1.44
13	B	803	CLA	O2A-CGA	2.89	1.41	1.33
13	A	833	CLA	O2A-CGA	2.88	1.41	1.33
13	A	825	CLA	C4C-C3C	2.88	1.50	1.45
13	A	842	CLA	O2A-CGA	2.88	1.41	1.33
13	A	834	CLA	C1C-C2C	2.88	1.50	1.44
13	B	828	CLA	C4C-C3C	2.88	1.50	1.45
13	B	830	CLA	O2A-CGA	2.88	1.41	1.33
13	B	838	CLA	O2A-CGA	2.88	1.41	1.33
13	B	837	CLA	O2A-CGA	2.88	1.41	1.33
13	B	828	CLA	C4D-ND	-2.88	1.33	1.37
13	A	823	CLA	C1D-ND	-2.88	1.34	1.37
15	B	849	BCR	C11-C10	2.88	1.52	1.43
13	B	836	CLA	O2A-CGA	2.88	1.41	1.33
13	A	809	CLA	O2A-CGA	2.88	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	835	CLA	O2A-CGA	2.88	1.41	1.33
13	A	827	CLA	C1D-ND	-2.88	1.34	1.37
15	A	847	BCR	C21-C22	2.88	1.39	1.35
13	J	1102	CLA	C4B-NB	2.88	1.37	1.35
13	B	836	CLA	C4C-C3C	2.88	1.50	1.45
15	J	1104	BCR	C12-C13	2.88	1.52	1.45
15	B	847	BCR	C12-C13	2.88	1.52	1.45
13	A	827	CLA	C1C-C2C	2.88	1.50	1.44
13	L	1002	CLA	C1D-ND	-2.87	1.34	1.37
13	B	839	CLA	C4D-ND	-2.87	1.33	1.37
13	B	836	CLA	C1D-ND	-2.87	1.34	1.37
13	B	833	CLA	C4C-C3C	2.87	1.50	1.45
13	A	821	CLA	C1D-ND	-2.87	1.34	1.37
13	B	829	CLA	C4C-C3C	2.87	1.50	1.45
13	B	829	CLA	O2A-CGA	2.87	1.41	1.33
13	B	810	CLA	C1D-ND	-2.87	1.34	1.37
13	A	811	CLA	C4C-C3C	2.86	1.50	1.45
13	A	840	CLA	C4B-NB	2.86	1.37	1.35
15	L	1006	BCR	C14-C13	2.86	1.39	1.35
13	A	826	CLA	O2D-CED	-2.86	1.38	1.45
13	A	808	CLA	C1D-ND	-2.86	1.34	1.37
13	A	812	CLA	O2A-CGA	2.86	1.41	1.33
13	J	1101	CLA	C4D-ND	-2.86	1.33	1.37
13	A	845	CLA	C4D-ND	-2.86	1.33	1.37
13	A	838	CLA	C1D-ND	-2.86	1.34	1.37
13	A	843	CLA	C1D-ND	-2.86	1.34	1.37
13	B	830	CLA	C1D-ND	-2.86	1.34	1.37
13	F	1301	CLA	C1D-ND	-2.86	1.34	1.37
13	A	806	CLA	O2D-CED	-2.86	1.38	1.45
13	B	835	CLA	C1C-C2C	2.85	1.50	1.44
13	L	1004	CLA	C1D-ND	-2.85	1.34	1.37
13	B	833	CLA	C1D-ND	-2.85	1.34	1.37
13	A	835	CLA	C1D-ND	-2.85	1.34	1.37
13	A	844	CLA	C1D-C2D	-2.85	1.39	1.45
13	A	828	CLA	O2A-CGA	2.85	1.41	1.33
13	B	823	CLA	C4D-ND	-2.85	1.33	1.37
13	B	832	CLA	C4C-C3C	2.84	1.49	1.45
13	L	1002	CLA	O2A-CGA	2.84	1.41	1.33
13	A	838	CLA	C4C-C3C	2.84	1.49	1.45
13	L	1004	CLA	C4D-ND	-2.84	1.33	1.37
15	A	847	BCR	C26-C25	2.84	1.39	1.34
13	A	845	CLA	C1C-C2C	2.84	1.50	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	830	CLA	C4C-C3C	2.84	1.49	1.45
13	B	823	CLA	O2D-CED	-2.84	1.38	1.45
13	A	816	CLA	C1D-ND	-2.84	1.34	1.37
13	A	807	CLA	C4D-ND	-2.84	1.33	1.37
13	B	835	CLA	C1D-ND	-2.84	1.34	1.37
13	A	843	CLA	C4C-C3C	2.84	1.49	1.45
13	B	826	CLA	C1C-C2C	2.84	1.50	1.44
15	A	851	BCR	C12-C13	2.84	1.52	1.45
13	B	827	CLA	O2D-CED	-2.84	1.38	1.45
13	L	1003	CLA	C1D-ND	-2.84	1.34	1.37
13	A	830	CLA	C4C-C3C	2.84	1.49	1.45
15	B	843	BCR	C14-C13	2.84	1.39	1.35
15	L	1006	BCR	C5-C6	2.83	1.39	1.34
15	B	845	BCR	C40-C30	-2.83	1.48	1.53
15	B	847	BCR	C14-C13	2.83	1.39	1.35
13	B	817	CLA	C1C-C2C	2.83	1.50	1.44
13	B	807	CLA	C4C-C3C	2.83	1.49	1.45
13	X	102	CLA	C4C-C3C	2.83	1.49	1.45
13	B	812	CLA	O2A-CGA	2.83	1.41	1.33
13	B	821	CLA	C4B-NB	2.83	1.37	1.35
15	F	1302	BCR	C14-C13	2.83	1.39	1.35
13	A	844	CLA	C4D-ND	-2.83	1.33	1.37
13	A	819	CLA	C1C-C2C	2.82	1.50	1.44
13	B	821	CLA	C1D-ND	-2.82	1.34	1.37
13	A	840	CLA	O2A-CGA	2.82	1.41	1.33
13	A	821	CLA	C4B-NB	2.82	1.37	1.35
13	B	820	CLA	C4B-NB	2.82	1.37	1.35
15	B	847	BCR	C21-C22	2.82	1.39	1.35
15	M	1203	BCR	C12-C13	2.82	1.52	1.45
13	A	836	CLA	C4D-ND	-2.82	1.33	1.37
13	B	806	CLA	O2D-CED	-2.81	1.38	1.45
13	B	816	CLA	C4C-C3C	2.81	1.49	1.45
15	M	1203	BCR	C8-C9	2.81	1.52	1.45
13	B	820	CLA	C1D-ND	-2.81	1.34	1.37
15	I	102	BCR	C32-C1	-2.81	1.48	1.53
13	A	806	CLA	O2A-CGA	2.81	1.41	1.33
13	A	842	CLA	O2D-CED	-2.81	1.38	1.45
13	B	825	CLA	O2D-CED	-2.81	1.38	1.45
13	A	828	CLA	C4B-NB	2.81	1.37	1.35
13	B	804	CLA	C4C-C3C	2.81	1.49	1.45
15	M	1203	BCR	C14-C13	2.81	1.39	1.35
13	A	830	CLA	C4D-ND	-2.81	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	824	CLA	C1D-ND	-2.81	1.34	1.37
13	J	1102	CLA	C1D-ND	-2.81	1.34	1.37
13	A	807	CLA	C2-C3	2.81	1.39	1.33
15	B	843	BCR	C32-C1	-2.81	1.48	1.53
13	B	825	CLA	O2A-CGA	2.80	1.41	1.33
15	A	852	BCR	C12-C13	2.80	1.52	1.45
13	A	831	CLA	C2-C3	2.80	1.40	1.32
13	A	810	CLA	C4D-ND	-2.80	1.33	1.37
13	B	821	CLA	C4C-C3C	2.80	1.49	1.45
13	J	1103	CLA	C4D-ND	-2.80	1.33	1.37
13	B	802	CLA	C4C-C3C	2.80	1.49	1.45
13	B	805	CLA	O2D-CED	-2.80	1.38	1.45
15	B	846	BCR	C32-C1	-2.80	1.48	1.53
13	A	818	CLA	C1C-C2C	2.79	1.50	1.44
13	M	1202	CLA	C4D-ND	-2.79	1.33	1.37
13	B	806	CLA	C4C-C3C	2.79	1.49	1.45
15	A	850	BCR	C26-C25	2.79	1.39	1.34
13	B	838	CLA	O2D-CED	-2.79	1.38	1.45
13	A	845	CLA	O2A-CGA	2.79	1.41	1.33
13	B	805	CLA	O2A-CGA	2.79	1.41	1.33
13	B	814	CLA	C4B-NB	2.79	1.37	1.35
13	A	806	CLA	C1D-ND	-2.79	1.34	1.37
13	A	809	CLA	C4D-ND	-2.79	1.33	1.37
15	I	102	BCR	C19-C18	2.79	1.51	1.45
13	B	838	CLA	C4D-ND	-2.78	1.33	1.37
15	A	849	BCR	C19-C18	2.78	1.51	1.45
13	A	842	CLA	C4B-NB	2.78	1.37	1.35
13	A	831	CLA	C1D-ND	-2.78	1.34	1.37
13	B	832	CLA	O2D-CED	-2.78	1.38	1.45
13	A	834	CLA	O2D-CED	-2.78	1.38	1.45
13	B	832	CLA	C1D-ND	-2.78	1.34	1.37
15	B	841	BCR	C21-C22	2.78	1.39	1.35
13	B	837	CLA	C1D-ND	-2.78	1.34	1.37
15	J	1104	BCR	C14-C13	2.78	1.39	1.35
13	A	813	CLA	C1D-ND	-2.78	1.34	1.37
13	L	1004	CLA	C4B-NB	2.78	1.37	1.35
15	L	1005	BCR	C32-C1	-2.78	1.48	1.53
13	B	814	CLA	C4C-C3C	2.78	1.49	1.45
15	B	846	BCR	C26-C25	2.78	1.39	1.34
15	B	841	BCR	C14-C13	2.78	1.39	1.35
13	B	814	CLA	C4D-ND	-2.77	1.33	1.37
13	A	834	CLA	C4C-C3C	2.77	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	J	1105	BCR	C32-C1	-2.77	1.48	1.53
13	B	815	CLA	C1D-ND	-2.77	1.34	1.37
13	B	803	CLA	C1D-ND	-2.77	1.34	1.37
13	B	805	CLA	C1D-ND	-2.77	1.34	1.37
13	B	828	CLA	C1D-ND	-2.77	1.34	1.37
13	M	1202	CLA	C4B-NB	2.77	1.37	1.35
13	A	823	CLA	O2A-CGA	2.77	1.41	1.33
13	B	827	CLA	C4D-ND	-2.77	1.33	1.37
13	B	817	CLA	O2A-CGA	2.77	1.41	1.33
15	L	1006	BCR	C12-C13	2.77	1.51	1.45
13	B	833	CLA	C4D-ND	-2.77	1.33	1.37
13	M	1201	CLA	C1D-ND	-2.77	1.34	1.37
15	B	847	BCR	C32-C1	-2.77	1.48	1.53
13	A	816	CLA	O2D-CED	-2.77	1.38	1.45
13	A	827	CLA	O2D-CED	-2.77	1.38	1.45
13	A	817	CLA	C1D-ND	-2.77	1.34	1.37
13	A	832	CLA	C1D-ND	-2.77	1.34	1.37
13	B	801	CLA	C1D-ND	-2.77	1.34	1.37
15	B	842	BCR	C26-C25	2.77	1.39	1.34
13	A	823	CLA	O2D-CED	-2.77	1.38	1.45
13	A	822	CLA	C4C-C3C	2.76	1.49	1.45
13	A	809	CLA	C4C-C3C	2.76	1.49	1.45
13	A	822	CLA	O2D-CED	-2.76	1.38	1.45
13	J	1101	CLA	C1D-ND	-2.76	1.34	1.37
13	A	823	CLA	C4B-NB	2.76	1.37	1.35
13	A	819	CLA	C4C-C3C	2.76	1.49	1.45
15	L	1005	BCR	C21-C22	2.76	1.39	1.35
13	B	834	CLA	C1D-ND	-2.76	1.34	1.37
15	B	850	BCR	C32-C1	-2.76	1.48	1.53
13	A	817	CLA	O2D-CGD	2.76	1.39	1.33
15	A	849	BCR	C32-C1	-2.76	1.48	1.53
13	A	824	CLA	C1D-ND	-2.75	1.34	1.37
13	B	829	CLA	O2D-CED	-2.75	1.38	1.45
13	A	804	CLA	C4D-ND	-2.75	1.33	1.37
13	B	816	CLA	C1D-ND	-2.75	1.34	1.37
13	B	816	CLA	O2A-CGA	2.75	1.41	1.33
13	B	809	CLA	C4B-NB	2.75	1.37	1.35
13	B	820	CLA	O2D-CED	-2.75	1.38	1.45
15	B	849	BCR	C26-C25	2.75	1.39	1.34
13	A	815	CLA	C1D-ND	-2.75	1.34	1.37
13	A	831	CLA	O2A-CGA	2.75	1.41	1.33
15	F	1302	BCR	C26-C25	2.75	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	833	CLA	C4B-NB	2.75	1.37	1.35
13	B	813	CLA	C1D-ND	-2.75	1.34	1.37
13	B	837	CLA	C4B-NB	2.75	1.37	1.35
13	A	823	CLA	C4C-C3C	2.75	1.49	1.45
15	F	1302	BCR	C21-C22	2.75	1.39	1.35
13	I	101	CLA	C4C-C3C	2.75	1.49	1.45
13	B	806	CLA	O2A-CGA	2.74	1.41	1.33
13	B	810	CLA	O2D-CED	-2.74	1.38	1.45
13	A	833	CLA	C1D-ND	-2.74	1.34	1.37
13	A	808	CLA	C4C-C3C	2.74	1.49	1.45
13	L	1004	CLA	O2D-CED	-2.74	1.38	1.45
13	B	812	CLA	C1D-ND	-2.74	1.34	1.37
13	A	833	CLA	O2D-CED	-2.74	1.38	1.45
15	A	851	BCR	C32-C1	-2.74	1.48	1.53
13	A	817	CLA	C4B-NB	2.74	1.37	1.35
13	A	836	CLA	C4B-NB	2.74	1.37	1.35
13	B	816	CLA	O2D-CED	-2.73	1.38	1.45
13	B	807	CLA	O2A-CGA	2.73	1.41	1.33
15	J	1105	BCR	C14-C13	2.73	1.39	1.35
13	L	1002	CLA	O2D-CED	-2.73	1.38	1.45
15	B	842	BCR	C32-C1	-2.73	1.48	1.53
13	A	821	CLA	C4D-ND	-2.73	1.33	1.37
13	I	101	CLA	O2D-CED	-2.73	1.38	1.45
13	A	838	CLA	O2A-CGA	2.73	1.41	1.33
13	A	811	CLA	C4D-ND	-2.73	1.33	1.37
13	A	819	CLA	O2A-CGA	2.73	1.41	1.33
13	B	820	CLA	C4D-ND	-2.73	1.33	1.37
13	B	836	CLA	O2D-CED	-2.73	1.38	1.45
13	B	821	CLA	O2D-CGD	2.73	1.39	1.33
13	B	839	CLA	C1D-ND	-2.73	1.34	1.37
13	A	838	CLA	O2D-CED	-2.73	1.38	1.45
13	A	836	CLA	O2D-CED	-2.73	1.38	1.45
13	A	820	CLA	C3D-C4D	-2.73	1.38	1.44
13	A	817	CLA	O2D-CED	-2.72	1.38	1.45
13	A	835	CLA	O2D-CED	-2.72	1.38	1.45
13	A	841	CLA	O2D-CED	-2.72	1.38	1.45
13	B	819	CLA	C1D-ND	-2.72	1.34	1.37
15	B	843	BCR	C21-C22	2.72	1.39	1.35
13	A	829	CLA	C4D-ND	-2.72	1.33	1.37
13	B	814	CLA	O2A-CGA	2.72	1.41	1.33
13	B	836	CLA	C4B-NB	2.72	1.37	1.35
15	B	849	BCR	C32-C1	-2.72	1.48	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	830	CLA	O2D-CED	-2.72	1.38	1.45
13	A	843	CLA	O2D-CED	-2.72	1.38	1.45
13	B	802	CLA	O2D-CED	-2.72	1.38	1.45
13	B	834	CLA	C4B-NB	2.72	1.37	1.35
13	A	837	CLA	C1D-ND	-2.72	1.34	1.37
13	B	825	CLA	C4D-ND	-2.72	1.34	1.37
13	B	810	CLA	O2D-CGD	2.72	1.39	1.33
13	B	802	CLA	C1D-ND	-2.72	1.34	1.37
13	L	1003	CLA	O2D-CED	-2.72	1.38	1.45
13	B	815	CLA	O2A-CGA	2.71	1.41	1.33
13	A	825	CLA	C1D-ND	-2.71	1.34	1.37
13	B	823	CLA	O2A-CGA	2.71	1.41	1.33
15	B	845	BCR	C12-C13	2.71	1.51	1.45
13	A	809	CLA	O2D-CED	-2.71	1.38	1.45
13	B	830	CLA	O2D-CED	-2.71	1.38	1.45
13	B	807	CLA	C4D-ND	-2.71	1.34	1.37
13	B	832	CLA	C4B-NB	2.71	1.37	1.35
15	J	1104	BCR	C32-C1	-2.71	1.48	1.53
13	B	804	CLA	C4D-ND	-2.71	1.34	1.37
13	A	807	CLA	O2A-CGA	2.71	1.41	1.33
13	B	826	CLA	C1D-ND	-2.71	1.34	1.37
13	A	833	CLA	O2D-CGD	2.71	1.39	1.33
13	A	807	CLA	C4C-C3C	2.71	1.49	1.45
13	A	825	CLA	O2D-CED	-2.71	1.38	1.45
15	A	850	BCR	C32-C1	-2.71	1.48	1.53
13	A	828	CLA	C4D-ND	-2.71	1.34	1.37
13	B	803	CLA	O2D-CED	-2.70	1.39	1.45
13	A	818	CLA	C4D-ND	-2.70	1.34	1.37
13	A	814	CLA	C1D-ND	-2.70	1.34	1.37
13	B	825	CLA	C4B-NB	2.70	1.37	1.35
13	B	804	CLA	O2D-CED	-2.70	1.39	1.45
18	B	848	LMG	C4-C5	2.70	1.58	1.53
15	M	1203	BCR	C32-C1	-2.70	1.48	1.53
13	A	801	CLA	O2D-CED	-2.69	1.39	1.45
15	L	1006	BCR	C32-C1	-2.69	1.48	1.53
13	F	1301	CLA	O2D-CED	-2.69	1.39	1.45
13	A	809	CLA	C4B-NB	2.69	1.37	1.35
15	A	848	BCR	C32-C1	-2.69	1.48	1.53
13	A	844	CLA	C3D-C4D	-2.69	1.38	1.44
13	A	826	CLA	C4B-NB	2.69	1.37	1.35
13	J	1101	CLA	O2D-CED	-2.69	1.39	1.45
13	A	845	CLA	O2D-CED	-2.69	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	815	CLA	C4B-NB	2.69	1.37	1.35
13	A	815	CLA	O2D-CED	-2.69	1.39	1.45
13	A	829	CLA	O2D-CED	-2.69	1.39	1.45
13	B	804	CLA	C1D-ND	-2.69	1.34	1.37
13	A	805	CLA	O2D-CED	-2.69	1.39	1.45
13	A	855	CLA	O2D-CED	-2.69	1.39	1.45
13	A	802	CLA	O2D-CED	-2.69	1.39	1.45
13	B	811	CLA	O2D-CED	-2.69	1.39	1.45
13	A	820	CLA	O2D-CED	-2.68	1.39	1.45
13	A	843	CLA	O2A-CGA	2.68	1.41	1.33
13	B	837	CLA	O2D-CED	-2.68	1.39	1.45
13	B	831	CLA	C1D-ND	-2.68	1.34	1.37
15	A	851	BCR	C14-C13	2.68	1.39	1.35
13	A	832	CLA	C5-C3	2.68	1.56	1.51
13	B	827	CLA	C1D-ND	-2.68	1.34	1.37
15	A	852	BCR	C32-C1	-2.68	1.48	1.53
15	A	847	BCR	C32-C1	-2.68	1.48	1.53
13	A	824	CLA	O2D-CED	-2.68	1.39	1.45
13	B	805	CLA	C4B-NB	2.67	1.37	1.35
13	A	807	CLA	C4B-NB	2.67	1.37	1.35
15	B	849	BCR	C12-C13	2.67	1.51	1.45
13	A	811	CLA	O2D-CED	-2.67	1.39	1.45
13	A	821	CLA	O2D-CED	-2.67	1.39	1.45
15	B	847	BCR	C26-C25	2.67	1.39	1.34
13	B	822	CLA	O2D-CED	-2.67	1.39	1.45
13	A	813	CLA	O2D-CED	-2.67	1.39	1.45
15	B	847	BCR	C40-C30	-2.67	1.48	1.53
13	B	829	CLA	O2D-CGD	2.67	1.39	1.33
13	B	809	CLA	C1D-ND	-2.67	1.34	1.37
13	B	814	CLA	O2D-CED	-2.67	1.39	1.45
13	B	839	CLA	O2D-CED	-2.67	1.39	1.45
13	M	1201	CLA	O2D-CED	-2.67	1.39	1.45
15	B	845	BCR	C32-C1	-2.67	1.48	1.53
13	A	810	CLA	O2D-CED	-2.66	1.39	1.45
13	A	840	CLA	O2D-CED	-2.66	1.39	1.45
13	B	811	CLA	C5-C3	2.66	1.56	1.51
13	A	825	CLA	C5-C3	2.66	1.56	1.51
13	B	808	CLA	O2D-CED	-2.66	1.39	1.45
13	A	841	CLA	O2D-CGD	2.66	1.39	1.33
13	A	832	CLA	O2D-CED	-2.66	1.39	1.45
13	B	834	CLA	O2D-CED	-2.66	1.39	1.45
13	A	818	CLA	O2A-CGA	2.65	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	805	CLA	C4B-NB	2.65	1.37	1.35
13	A	816	CLA	O2D-CGD	2.65	1.39	1.33
13	B	801	CLA	O2D-CED	-2.65	1.39	1.45
13	A	845	CLA	C1D-ND	-2.65	1.34	1.37
13	I	101	CLA	O2D-CGD	2.65	1.39	1.33
13	A	839	CLA	C1D-ND	-2.65	1.34	1.37
13	A	834	CLA	C5-C3	2.65	1.56	1.51
15	B	841	BCR	C32-C1	-2.65	1.48	1.53
13	B	812	CLA	O2D-CED	-2.65	1.39	1.45
13	B	819	CLA	O2D-CED	-2.65	1.39	1.45
13	A	835	CLA	C4B-NB	2.65	1.37	1.35
13	A	828	CLA	O2D-CGD	2.64	1.39	1.33
13	X	102	CLA	O2D-CED	-2.64	1.39	1.45
15	I	102	BCR	C14-C13	2.64	1.39	1.35
15	F	1302	BCR	C32-C1	-2.64	1.48	1.53
13	A	811	CLA	C1D-ND	-2.64	1.34	1.37
13	B	825	CLA	C1D-ND	-2.64	1.34	1.37
13	A	839	CLA	O2D-CED	-2.64	1.39	1.45
13	B	836	CLA	C3D-C4D	-2.64	1.38	1.44
13	A	845	CLA	C4B-NB	2.64	1.37	1.35
13	A	842	CLA	O2D-CGD	2.64	1.39	1.33
13	B	807	CLA	O2D-CED	-2.64	1.39	1.45
15	L	1005	BCR	C26-C25	2.64	1.39	1.34
13	B	817	CLA	C4D-ND	-2.64	1.34	1.37
13	M	1202	CLA	C1D-ND	-2.64	1.34	1.37
13	B	828	CLA	O2D-CED	-2.64	1.39	1.45
15	A	849	BCR	C12-C13	2.64	1.51	1.45
13	A	818	CLA	O2D-CED	-2.64	1.39	1.45
13	B	809	CLA	O2D-CED	-2.63	1.39	1.45
13	B	820	CLA	O2D-CGD	2.63	1.39	1.33
13	B	822	CLA	C3D-C4D	-2.63	1.38	1.44
13	B	824	CLA	C4B-NB	2.63	1.37	1.35
13	A	823	CLA	C4D-ND	-2.63	1.34	1.37
13	A	804	CLA	C4B-NB	2.63	1.37	1.35
13	A	818	CLA	C1D-ND	-2.63	1.34	1.37
13	A	812	CLA	O2D-CED	-2.63	1.39	1.45
15	A	848	BCR	C26-C25	2.63	1.39	1.34
13	B	833	CLA	O2D-CED	-2.63	1.39	1.45
13	B	811	CLA	C1D-ND	-2.63	1.34	1.37
13	A	840	CLA	C1D-ND	-2.63	1.34	1.37
13	A	813	CLA	C4B-NB	2.63	1.37	1.35
13	B	803	CLA	C4B-NB	2.63	1.37	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	802	CLA	C3D-C4D	-2.63	1.38	1.44
13	B	812	CLA	C3D-C4D	-2.63	1.38	1.44
15	A	850	BCR	C10-C9	2.63	1.39	1.35
15	A	849	BCR	C26-C25	2.63	1.39	1.34
13	B	831	CLA	C4B-NB	2.62	1.37	1.35
13	M	1201	CLA	C4B-NB	2.62	1.37	1.35
13	A	839	CLA	C3D-C4D	-2.62	1.38	1.44
13	B	824	CLA	O2D-CED	-2.62	1.39	1.45
13	B	830	CLA	O2D-CGD	2.62	1.39	1.33
13	A	803	CLA	C4B-NB	2.62	1.37	1.35
13	A	823	CLA	O2D-CGD	2.62	1.39	1.33
15	M	1203	BCR	C26-C25	2.62	1.39	1.34
13	A	828	CLA	O2D-CED	-2.62	1.39	1.45
13	A	819	CLA	O2D-CED	-2.62	1.39	1.45
13	A	809	CLA	O2D-CGD	2.61	1.39	1.33
13	B	814	CLA	C1D-ND	-2.61	1.34	1.37
13	A	842	CLA	C5-C3	2.61	1.56	1.51
13	A	831	CLA	C4B-NB	2.61	1.37	1.35
15	L	1006	BCR	C26-C25	2.61	1.38	1.34
15	B	842	BCR	C40-C30	-2.61	1.48	1.53
15	A	852	BCR	C26-C25	2.61	1.38	1.34
13	A	812	CLA	C4B-NB	2.61	1.37	1.35
13	A	829	CLA	C4B-NB	2.61	1.37	1.35
13	A	835	CLA	O2D-CGD	2.60	1.39	1.33
15	M	1203	BCR	C40-C30	-2.60	1.48	1.53
13	B	830	CLA	C3D-C4D	-2.60	1.38	1.44
13	M	1202	CLA	O2D-CED	-2.60	1.39	1.45
13	A	804	CLA	C1D-ND	-2.60	1.34	1.37
13	A	810	CLA	C4B-NB	2.60	1.37	1.35
13	A	829	CLA	C5-C3	2.60	1.56	1.51
13	B	808	CLA	C4B-NB	2.60	1.37	1.35
13	A	831	CLA	C3D-C4D	-2.59	1.38	1.44
13	A	802	CLA	C4B-NB	2.59	1.37	1.35
15	A	849	BCR	C21-C22	2.59	1.39	1.35
13	A	810	CLA	C1D-ND	-2.59	1.34	1.37
13	A	820	CLA	O2D-CGD	2.59	1.39	1.33
13	A	838	CLA	C3D-C4D	-2.59	1.38	1.44
15	L	1006	BCR	C10-C9	2.59	1.39	1.35
13	B	813	CLA	C3D-C4D	-2.59	1.38	1.44
15	B	843	BCR	C40-C30	-2.59	1.48	1.53
15	B	844	BCR	C26-C25	2.59	1.38	1.34
13	B	823	CLA	C3D-C4D	-2.59	1.38	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	J	1103	CLA	C3D-C4D	-2.59	1.38	1.44
13	A	819	CLA	C3D-C4D	-2.58	1.38	1.44
13	B	817	CLA	C3D-C4D	-2.58	1.38	1.44
13	B	815	CLA	C3D-C4D	-2.58	1.38	1.44
13	A	838	CLA	C5-C3	2.58	1.56	1.51
13	J	1102	CLA	O2D-CED	-2.58	1.39	1.45
13	A	821	CLA	C3D-C4D	-2.58	1.38	1.44
13	B	823	CLA	C4B-NB	2.58	1.37	1.35
15	B	844	BCR	C40-C30	-2.58	1.48	1.53
13	A	830	CLA	C5-C3	2.58	1.56	1.51
13	A	807	CLA	C1D-ND	-2.58	1.34	1.37
13	A	801	CLA	C1D-ND	-2.57	1.34	1.37
13	B	829	CLA	C4D-ND	-2.57	1.34	1.37
13	B	813	CLA	O2D-CED	-2.57	1.39	1.45
13	B	819	CLA	C4B-NB	2.57	1.37	1.35
13	A	807	CLA	O2D-CED	-2.57	1.39	1.45
13	M	1202	CLA	O2D-CGD	2.57	1.39	1.33
15	A	851	BCR	C26-C25	2.57	1.38	1.34
13	A	829	CLA	C1D-ND	-2.57	1.34	1.37
15	I	102	BCR	C26-C25	2.57	1.38	1.34
13	X	102	CLA	C4B-NB	2.56	1.37	1.35
13	M	1201	CLA	C3D-C4D	-2.56	1.38	1.44
15	I	102	BCR	C40-C30	-2.56	1.48	1.53
15	L	1005	BCR	C14-C13	2.56	1.39	1.35
13	A	805	CLA	C1D-ND	-2.56	1.34	1.37
13	B	829	CLA	C1D-ND	-2.56	1.34	1.37
13	B	830	CLA	C5-C3	2.56	1.56	1.51
13	L	1002	CLA	C4B-NB	2.56	1.37	1.35
13	B	816	CLA	C3D-C4D	-2.56	1.38	1.44
15	I	102	BCR	C12-C13	2.56	1.51	1.45
13	B	829	CLA	C4B-NB	2.56	1.37	1.35
13	B	839	CLA	C3D-C4D	-2.56	1.38	1.44
15	I	102	BCR	C21-C22	2.56	1.39	1.35
15	J	1105	BCR	C40-C30	-2.56	1.48	1.53
13	B	835	CLA	C5-C3	2.55	1.56	1.51
13	A	821	CLA	C5-C3	2.55	1.56	1.51
13	A	805	CLA	C5-C3	2.55	1.56	1.51
13	A	822	CLA	C4B-NB	2.55	1.37	1.35
13	A	832	CLA	C4B-NB	2.55	1.37	1.35
13	B	817	CLA	O2D-CED	-2.55	1.39	1.45
15	L	1005	BCR	C40-C30	-2.55	1.48	1.53
13	B	806	CLA	C3D-C4D	-2.55	1.38	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	834	CLA	C3D-C4D	-2.55	1.38	1.44
15	B	850	BCR	C26-C25	2.55	1.38	1.34
13	B	801	CLA	C4B-NB	2.54	1.37	1.35
13	B	839	CLA	C4B-NB	2.54	1.37	1.35
13	A	839	CLA	C4B-NB	2.54	1.37	1.35
13	B	825	CLA	C3D-C4D	-2.54	1.38	1.44
13	B	828	CLA	O2D-CGD	2.54	1.39	1.33
15	A	849	BCR	C5-C6	2.54	1.38	1.34
15	B	842	BCR	C10-C9	2.54	1.39	1.35
15	B	843	BCR	C26-C25	2.54	1.38	1.34
13	A	826	CLA	C3D-C4D	-2.53	1.38	1.44
13	F	1301	CLA	O2D-CGD	2.53	1.39	1.33
15	B	845	BCR	C14-C13	2.53	1.39	1.35
13	B	805	CLA	C3D-C4D	-2.53	1.38	1.44
13	B	813	CLA	O2D-CGD	2.53	1.39	1.33
13	A	809	CLA	C5-C3	2.53	1.56	1.51
13	A	811	CLA	C5-C3	2.53	1.56	1.51
15	J	1104	BCR	C26-C25	2.53	1.38	1.34
13	B	825	CLA	O2D-CGD	2.53	1.39	1.33
13	A	818	CLA	O2D-CGD	2.53	1.39	1.33
13	M	1201	CLA	C5-C3	2.53	1.56	1.51
13	A	839	CLA	C4D-ND	-2.53	1.34	1.37
13	J	1102	CLA	O2D-CGD	2.53	1.39	1.33
13	A	808	CLA	C5-C3	2.53	1.56	1.51
13	A	811	CLA	C4B-NB	2.53	1.37	1.35
13	B	827	CLA	C5-C3	2.53	1.56	1.51
13	B	816	CLA	O2D-CGD	2.52	1.39	1.33
15	J	1105	BCR	C26-C25	2.52	1.38	1.34
15	J	1104	BCR	C10-C9	2.52	1.39	1.35
15	J	1104	BCR	C40-C30	-2.52	1.48	1.53
15	B	850	BCR	C14-C13	2.52	1.39	1.35
13	B	801	CLA	O2D-CGD	2.52	1.39	1.33
13	B	805	CLA	O2D-CGD	2.52	1.39	1.33
15	A	848	BCR	C40-C30	-2.52	1.48	1.53
15	A	852	BCR	C20-C19	2.52	1.41	1.34
13	B	812	CLA	O2D-CGD	2.52	1.39	1.33
13	A	818	CLA	C4B-NB	2.52	1.37	1.35
15	A	851	BCR	C40-C30	-2.52	1.48	1.53
13	A	804	CLA	C5-C3	2.52	1.56	1.51
13	A	842	CLA	C3D-C4D	-2.52	1.38	1.44
15	B	849	BCR	C14-C13	2.51	1.39	1.35
13	A	817	CLA	C3D-C4D	-2.51	1.38	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	828	CLA	C4B-NB	2.51	1.37	1.35
13	A	840	CLA	O2D-CGD	2.51	1.39	1.33
13	A	841	CLA	C3D-C4D	-2.51	1.38	1.44
13	B	826	CLA	C4B-NB	2.51	1.37	1.35
13	B	833	CLA	C3D-C4D	-2.51	1.38	1.44
13	A	827	CLA	C4C-C3C	2.51	1.49	1.45
13	A	806	CLA	O2D-CGD	2.51	1.39	1.33
15	A	850	BCR	C40-C30	-2.51	1.48	1.53
13	B	838	CLA	C5-C3	2.51	1.56	1.51
13	A	815	CLA	O2D-CGD	2.51	1.39	1.33
13	B	803	CLA	C5-C3	2.51	1.56	1.51
15	B	846	BCR	C40-C30	-2.51	1.48	1.53
13	A	806	CLA	C4B-NB	2.51	1.37	1.35
13	A	841	CLA	C4B-NB	2.51	1.37	1.35
13	B	830	CLA	C4D-ND	-2.51	1.34	1.37
13	B	810	CLA	C3D-C4D	-2.51	1.38	1.44
13	A	835	CLA	C3D-C4D	-2.50	1.38	1.44
15	B	850	BCR	C40-C30	-2.50	1.48	1.53
13	B	819	CLA	O2D-CGD	2.50	1.39	1.33
13	A	802	CLA	O2D-CGD	2.50	1.39	1.33
13	A	801	CLA	C5-C3	2.50	1.56	1.51
13	B	806	CLA	C4B-NB	2.50	1.37	1.35
13	B	838	CLA	C3D-C4D	-2.50	1.38	1.44
13	A	806	CLA	C3D-C4D	-2.50	1.38	1.44
13	A	825	CLA	C4B-NB	2.50	1.37	1.35
13	A	855	CLA	C3D-C4D	-2.50	1.38	1.44
15	B	849	BCR	C40-C30	-2.50	1.48	1.53
13	A	840	CLA	C3D-C4D	-2.50	1.38	1.44
13	A	818	CLA	C3D-C4D	-2.50	1.38	1.44
13	A	834	CLA	O2D-CGD	2.50	1.39	1.33
15	B	849	BCR	C5-C6	2.50	1.38	1.34
13	B	815	CLA	O2D-CGD	2.49	1.39	1.33
13	A	819	CLA	O2D-CGD	2.49	1.39	1.33
13	B	822	CLA	C5-C3	2.49	1.56	1.51
13	A	807	CLA	C3D-C4D	-2.49	1.38	1.44
13	F	1301	CLA	C3D-C4D	-2.49	1.38	1.44
13	A	828	CLA	C1D-ND	-2.49	1.34	1.37
13	A	804	CLA	C3D-C4D	-2.49	1.38	1.44
13	B	820	CLA	C3D-C4D	-2.49	1.38	1.44
13	B	825	CLA	C5-C3	2.49	1.56	1.51
15	J	1104	BCR	C5-C6	2.49	1.38	1.34
13	A	836	CLA	O2D-CGD	2.49	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	833	CLA	C3D-C4D	-2.49	1.38	1.44
13	A	823	CLA	C3D-C4D	-2.49	1.38	1.44
13	B	823	CLA	O2D-CGD	2.48	1.39	1.33
13	A	826	CLA	C5-C3	2.48	1.56	1.51
13	A	816	CLA	C4B-NB	2.48	1.37	1.35
13	A	843	CLA	C4B-NB	2.48	1.37	1.35
13	A	835	CLA	C5-C3	2.48	1.56	1.51
13	B	837	CLA	O2D-CGD	2.48	1.39	1.33
13	A	838	CLA	O2D-CGD	2.48	1.39	1.33
13	B	837	CLA	C3D-C4D	-2.48	1.38	1.44
13	B	811	CLA	C4B-NB	2.48	1.37	1.35
13	A	855	CLA	O2D-CGD	2.48	1.39	1.33
15	B	846	BCR	C5-C6	2.48	1.38	1.34
15	A	848	BCR	C10-C9	2.48	1.39	1.35
15	A	847	BCR	C10-C9	2.48	1.39	1.35
13	B	817	CLA	C4B-NB	2.48	1.37	1.35
13	B	839	CLA	O2D-CGD	2.48	1.39	1.33
15	A	849	BCR	C40-C30	-2.47	1.48	1.53
15	A	847	BCR	C40-C30	-2.47	1.48	1.53
13	B	812	CLA	C4B-NB	2.47	1.37	1.35
13	A	843	CLA	O2D-CGD	2.47	1.39	1.33
13	J	1102	CLA	C3D-C4D	-2.47	1.38	1.44
13	B	820	CLA	O2A-CGA	2.47	1.40	1.33
13	A	808	CLA	C4B-NB	2.47	1.37	1.35
13	B	824	CLA	C5-C3	2.47	1.56	1.51
13	B	804	CLA	O2D-CGD	2.47	1.39	1.33
15	B	841	BCR	C10-C9	2.47	1.39	1.35
13	A	811	CLA	C3D-C4D	-2.47	1.38	1.44
13	B	804	CLA	C4B-NB	2.47	1.37	1.35
13	B	839	CLA	C5-C3	2.46	1.56	1.51
13	A	826	CLA	O2D-CGD	2.46	1.39	1.33
13	A	827	CLA	C5-C3	2.46	1.56	1.51
15	A	847	BCR	C5-C6	2.46	1.38	1.34
13	B	824	CLA	C3D-C4D	-2.46	1.38	1.44
13	A	845	CLA	O2D-CGD	2.46	1.39	1.33
13	B	806	CLA	O2D-CGD	2.46	1.39	1.33
13	B	817	CLA	C5-C3	2.46	1.56	1.51
13	B	832	CLA	O2D-CGD	2.46	1.39	1.33
15	B	841	BCR	C40-C30	-2.46	1.48	1.53
13	L	1002	CLA	C3D-C4D	-2.46	1.38	1.44
13	A	825	CLA	O2D-CGD	2.46	1.39	1.33
13	A	832	CLA	O2D-CGD	2.46	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	I	101	CLA	C3D-C4D	-2.46	1.38	1.44
13	M	1202	CLA	C3D-C4D	-2.46	1.38	1.44
18	B	848	LMG	O6-C1	2.45	1.48	1.41
13	A	824	CLA	C5-C3	2.45	1.56	1.51
13	I	101	CLA	C5-C3	2.45	1.56	1.51
13	B	809	CLA	C3D-C4D	-2.45	1.38	1.44
13	B	818	CLA	O2D-CGD	2.45	1.39	1.33
13	A	845	CLA	C3D-C4D	-2.45	1.38	1.44
13	A	844	CLA	C4B-NB	2.45	1.37	1.35
15	L	1006	BCR	C40-C30	-2.45	1.48	1.53
15	B	842	BCR	C24-C23	2.45	1.40	1.33
13	A	804	CLA	O2D-CGD	2.45	1.39	1.33
13	A	801	CLA	C4B-NB	2.45	1.37	1.35
13	B	834	CLA	C3D-C4D	-2.45	1.38	1.44
13	B	802	CLA	C3D-C4D	-2.45	1.38	1.44
13	B	808	CLA	C3D-C4D	-2.45	1.38	1.44
13	B	815	CLA	C5-C3	2.44	1.56	1.51
15	F	1302	BCR	C40-C30	-2.44	1.48	1.53
13	B	827	CLA	C4C-C3C	2.44	1.49	1.45
13	A	810	CLA	O2D-CGD	2.44	1.39	1.33
13	A	805	CLA	C4D-ND	-2.44	1.34	1.37
13	B	802	CLA	O2D-CGD	2.44	1.39	1.33
13	A	812	CLA	O2D-CGD	2.44	1.39	1.33
13	B	806	CLA	C5-C3	2.44	1.56	1.51
13	B	824	CLA	O2D-CGD	2.44	1.39	1.33
13	M	1201	CLA	O2D-CGD	2.44	1.39	1.33
13	A	827	CLA	C4B-NB	2.44	1.37	1.35
13	A	855	CLA	C4B-NB	2.44	1.37	1.35
13	X	102	CLA	C3D-C4D	-2.44	1.38	1.44
13	B	834	CLA	O2D-CGD	2.44	1.39	1.33
13	A	805	CLA	O2D-CGD	2.44	1.39	1.33
13	B	820	CLA	C5-C3	2.43	1.56	1.51
13	B	836	CLA	C5-C3	2.43	1.56	1.51
13	A	838	CLA	C4B-NB	2.43	1.37	1.35
15	A	852	BCR	C40-C30	-2.43	1.49	1.53
13	A	816	CLA	C3D-C4D	-2.43	1.38	1.44
13	A	839	CLA	O2D-CGD	2.43	1.39	1.33
13	L	1004	CLA	C3D-C4D	-2.43	1.38	1.44
13	B	816	CLA	C4B-NB	2.43	1.37	1.35
13	A	814	CLA	C3D-C4D	-2.43	1.38	1.44
13	B	814	CLA	C3D-C4D	-2.43	1.38	1.44
13	B	832	CLA	C3D-C4D	-2.43	1.38	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	802	CLA	C4B-NB	2.43	1.37	1.35
13	L	1004	CLA	C5-C3	2.43	1.56	1.51
13	B	809	CLA	O2D-CGD	2.42	1.39	1.33
13	B	831	CLA	C5-C3	2.42	1.56	1.51
13	A	803	CLA	C3D-C4D	-2.42	1.38	1.44
13	B	818	CLA	C3D-C4D	-2.42	1.38	1.44
13	J	1101	CLA	O2D-CGD	2.42	1.39	1.33
13	B	817	CLA	O2D-CGD	2.42	1.39	1.33
13	J	1101	CLA	C4B-NB	2.42	1.37	1.35
13	J	1101	CLA	C5-C3	2.42	1.56	1.51
13	A	828	CLA	C3D-C4D	-2.42	1.38	1.44
13	A	829	CLA	C3D-C4D	-2.42	1.38	1.44
15	B	845	BCR	C5-C6	2.41	1.38	1.34
13	A	829	CLA	O2D-CGD	2.41	1.39	1.33
13	B	807	CLA	O2D-CGD	2.41	1.39	1.33
15	A	850	BCR	C24-C23	2.41	1.40	1.33
13	A	822	CLA	O2D-CGD	2.41	1.39	1.33
13	B	803	CLA	C3D-C4D	-2.41	1.38	1.44
13	A	808	CLA	C3D-C4D	-2.41	1.38	1.44
15	J	1105	BCR	C10-C9	2.41	1.39	1.35
18	B	848	LMG	C4-C3	2.41	1.58	1.52
13	B	811	CLA	O2D-CGD	2.41	1.39	1.33
13	A	827	CLA	O2D-CGD	2.41	1.39	1.33
13	B	807	CLA	C5-C3	2.41	1.56	1.51
13	A	819	CLA	C4B-NB	2.41	1.37	1.35
18	B	848	LMG	C3-C2	2.41	1.58	1.52
13	A	813	CLA	O2D-CGD	2.41	1.39	1.33
13	A	828	CLA	C5-C3	2.41	1.56	1.51
15	A	852	BCR	C24-C23	2.41	1.40	1.33
13	A	836	CLA	C3D-C4D	-2.41	1.38	1.44
13	A	833	CLA	C5-C3	2.40	1.56	1.51
13	A	803	CLA	O2D-CGD	2.40	1.39	1.33
13	B	827	CLA	C3D-C4D	-2.40	1.38	1.44
13	A	819	CLA	C5-C3	2.40	1.56	1.51
13	B	836	CLA	O2D-CGD	2.40	1.39	1.33
13	X	102	CLA	O2D-CGD	2.40	1.39	1.33
13	A	837	CLA	C4B-NB	2.40	1.37	1.35
15	A	848	BCR	C5-C6	2.40	1.38	1.34
15	B	850	BCR	C10-C9	2.40	1.39	1.35
13	L	1003	CLA	C3D-C4D	-2.40	1.38	1.44
15	B	846	BCR	C39-C30	-2.40	1.49	1.53
13	A	813	CLA	C3D-C4D	-2.40	1.38	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	B	845	BCR	C24-C23	2.39	1.40	1.33
13	A	821	CLA	O2D-CGD	2.39	1.39	1.33
13	L	1004	CLA	O2D-CGD	2.39	1.39	1.33
13	J	1101	CLA	C3D-C4D	-2.39	1.38	1.44
13	A	818	CLA	C5-C3	2.39	1.56	1.51
13	B	828	CLA	C3D-C4D	-2.39	1.38	1.44
13	B	811	CLA	C3D-C4D	-2.39	1.38	1.44
13	A	830	CLA	O2D-CGD	2.39	1.39	1.33
13	A	812	CLA	C3D-C4D	-2.39	1.38	1.44
13	A	809	CLA	C3D-C4D	-2.39	1.38	1.44
13	A	810	CLA	C3D-C4D	-2.39	1.38	1.44
13	A	824	CLA	C4B-NB	2.39	1.37	1.35
13	A	815	CLA	C3D-C4D	-2.39	1.38	1.44
13	B	835	CLA	C3D-C4D	-2.38	1.38	1.44
13	B	833	CLA	O2D-CGD	2.38	1.39	1.33
15	B	850	BCR	C5-C6	2.38	1.38	1.34
15	J	1105	BCR	C39-C30	-2.38	1.49	1.53
13	A	827	CLA	C3D-C4D	-2.38	1.38	1.44
13	A	832	CLA	C3D-C4D	-2.38	1.38	1.44
13	A	825	CLA	C3D-C4D	-2.38	1.38	1.44
13	B	802	CLA	C5-C3	2.38	1.56	1.51
13	B	814	CLA	O2D-CGD	2.38	1.39	1.33
13	B	821	CLA	C3D-C4D	-2.38	1.38	1.44
13	L	1002	CLA	O2D-CGD	2.38	1.39	1.33
13	A	840	CLA	C5-C3	2.38	1.56	1.51
13	A	824	CLA	C3D-C4D	-2.38	1.38	1.44
15	B	846	BCR	C10-C9	2.38	1.38	1.35
13	B	822	CLA	O2D-CGD	2.38	1.39	1.33
13	B	801	CLA	C3D-C4D	-2.37	1.38	1.44
13	B	804	CLA	C5-C3	2.37	1.56	1.51
15	A	849	BCR	C14-C13	2.37	1.38	1.35
15	A	851	BCR	C5-C6	2.37	1.38	1.34
13	L	1003	CLA	O2D-CGD	2.37	1.39	1.33
15	B	844	BCR	C20-C19	2.37	1.40	1.34
15	F	1302	BCR	C5-C6	2.36	1.38	1.34
13	B	838	CLA	O2D-CGD	2.36	1.39	1.33
13	A	830	CLA	C1D-ND	-2.36	1.34	1.37
15	B	844	BCR	C39-C30	-2.36	1.49	1.53
15	A	851	BCR	C39-C30	-2.36	1.49	1.53
13	B	819	CLA	C3D-C4D	-2.36	1.38	1.44
13	A	820	CLA	C5-C3	2.36	1.56	1.51
13	B	808	CLA	O2D-CGD	2.36	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	I	101	CLA	C4B-NB	2.36	1.37	1.35
15	A	850	BCR	C24-C25	2.36	1.53	1.45
13	B	803	CLA	O2D-CGD	2.35	1.38	1.33
13	A	812	CLA	C5-C3	2.35	1.56	1.51
15	B	847	BCR	C10-C9	2.35	1.38	1.35
13	J	1103	CLA	C4B-NB	2.35	1.37	1.35
15	J	1104	BCR	C24-C23	2.35	1.40	1.33
15	A	852	BCR	C10-C9	2.34	1.38	1.35
13	B	804	CLA	C3D-C4D	-2.34	1.38	1.44
13	A	801	CLA	C3D-C4D	-2.34	1.38	1.44
13	A	815	CLA	C4B-NB	2.34	1.37	1.35
13	A	801	CLA	O2D-CGD	2.34	1.38	1.33
13	B	838	CLA	C4B-NB	2.34	1.37	1.35
15	A	850	BCR	C20-C19	2.34	1.40	1.34
13	B	826	CLA	C3D-C4D	-2.34	1.38	1.44
15	B	847	BCR	C39-C30	-2.34	1.49	1.53
13	A	802	CLA	C5-C3	2.34	1.56	1.51
13	A	803	CLA	C5-C3	2.33	1.56	1.51
13	B	805	CLA	C5-C3	2.33	1.56	1.51
13	B	808	CLA	C5-C3	2.33	1.56	1.51
15	L	1005	BCR	C39-C30	-2.33	1.49	1.53
15	M	1203	BCR	C39-C30	-2.33	1.49	1.53
15	A	847	BCR	C24-C25	2.33	1.53	1.45
15	J	1105	BCR	C20-C19	2.33	1.40	1.34
13	A	811	CLA	O2D-CGD	2.33	1.38	1.33
13	F	1301	CLA	C4B-NB	2.33	1.37	1.35
13	B	831	CLA	C3D-C4D	-2.33	1.38	1.44
15	J	1104	BCR	C24-C25	2.33	1.53	1.45
13	A	813	CLA	C5-C3	2.33	1.56	1.51
13	L	1003	CLA	C5-C3	2.33	1.56	1.51
15	B	842	BCR	C5-C6	2.33	1.38	1.34
13	A	845	CLA	C5-C3	2.33	1.56	1.51
15	A	850	BCR	C5-C6	2.32	1.38	1.34
13	A	837	CLA	C3D-C4D	-2.32	1.38	1.44
15	B	847	BCR	C24-C23	2.32	1.40	1.33
15	L	1005	BCR	C10-C9	2.32	1.38	1.35
15	J	1105	BCR	C5-C6	2.32	1.38	1.34
15	B	842	BCR	C24-C25	2.32	1.53	1.45
15	B	841	BCR	C39-C30	-2.32	1.49	1.53
15	A	847	BCR	C24-C23	2.32	1.40	1.33
13	A	831	CLA	O2D-CGD	2.32	1.38	1.33
13	B	829	CLA	C3D-C4D	-2.32	1.38	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	822	CLA	C4B-NB	2.32	1.37	1.35
13	A	830	CLA	C4B-NB	2.31	1.37	1.35
13	B	820	CLA	O2A-C1	-2.31	1.39	1.46
13	A	817	CLA	C5-C3	2.31	1.56	1.51
15	B	841	BCR	C24-C25	2.31	1.53	1.45
13	A	806	CLA	C5-C3	2.31	1.56	1.51
15	F	1302	BCR	C10-C9	2.31	1.38	1.35
15	B	844	BCR	C24-C23	2.31	1.40	1.33
13	A	843	CLA	C3D-C4D	-2.31	1.39	1.44
15	A	847	BCR	C39-C30	-2.31	1.49	1.53
13	A	814	CLA	C4B-NB	2.31	1.37	1.35
13	B	812	CLA	C5-C3	2.31	1.56	1.51
15	B	841	BCR	C5-C6	2.31	1.38	1.34
18	B	848	LMG	O7-C8	-2.30	1.40	1.46
15	A	852	BCR	C24-C25	2.30	1.53	1.45
15	F	1302	BCR	C39-C30	-2.30	1.49	1.53
15	A	848	BCR	C39-C30	-2.29	1.49	1.53
15	B	846	BCR	C24-C23	2.29	1.40	1.33
15	L	1006	BCR	C20-C19	2.29	1.40	1.34
15	A	851	BCR	C10-C9	2.29	1.38	1.35
15	L	1005	BCR	C24-C25	2.29	1.53	1.45
13	L	1002	CLA	C5-C3	2.28	1.56	1.51
13	B	814	CLA	C5-C3	2.28	1.56	1.51
13	A	844	CLA	C1A-CHA	-2.28	1.33	1.43
15	J	1105	BCR	C24-C23	2.28	1.40	1.33
15	A	852	BCR	C5-C6	2.28	1.38	1.34
13	B	807	CLA	C3D-C4D	-2.28	1.39	1.44
15	A	849	BCR	C39-C30	-2.28	1.49	1.53
13	A	824	CLA	O2D-CGD	2.28	1.38	1.33
15	B	850	BCR	C20-C19	2.28	1.40	1.34
15	B	843	BCR	C20-C19	2.27	1.40	1.34
13	A	830	CLA	C3D-C4D	-2.27	1.39	1.44
13	B	801	CLA	C5-C3	2.27	1.56	1.51
15	B	842	BCR	C39-C30	-2.27	1.49	1.53
15	L	1005	BCR	C5-C6	2.27	1.38	1.34
15	B	845	BCR	C24-C25	2.27	1.53	1.45
13	A	822	CLA	C3D-C4D	-2.27	1.39	1.44
15	B	841	BCR	C24-C23	2.27	1.39	1.33
15	L	1006	BCR	C24-C23	2.27	1.39	1.33
15	A	852	BCR	C39-C30	-2.26	1.49	1.53
13	A	833	CLA	C4B-CHC	-2.26	1.34	1.41
15	A	848	BCR	C20-C19	2.26	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	L	1006	BCR	C39-C30	-2.26	1.49	1.53
15	A	848	BCR	C24-C23	2.26	1.39	1.33
15	A	851	BCR	C20-C19	2.26	1.40	1.34
15	B	845	BCR	C39-C30	-2.26	1.49	1.53
15	J	1104	BCR	C20-C19	2.26	1.40	1.34
15	I	102	BCR	C39-C30	-2.26	1.49	1.53
13	A	843	CLA	C5-C3	2.26	1.56	1.51
15	J	1105	BCR	C24-C25	2.26	1.53	1.45
13	L	1003	CLA	C4B-NB	2.26	1.37	1.35
13	A	820	CLA	C4B-NB	2.26	1.37	1.35
15	L	1005	BCR	C24-C23	2.25	1.39	1.33
15	B	850	BCR	C39-C30	-2.25	1.49	1.53
15	J	1105	BCR	C31-C1	-2.25	1.49	1.53
15	B	850	BCR	C24-C23	2.25	1.39	1.33
15	B	846	BCR	C24-C25	2.25	1.53	1.45
15	B	843	BCR	C39-C30	-2.24	1.49	1.53
15	B	843	BCR	C5-C6	2.24	1.38	1.34
15	M	1203	BCR	C20-C19	2.23	1.40	1.34
13	B	816	CLA	C5-C3	2.23	1.55	1.51
15	B	847	BCR	C24-C25	2.23	1.53	1.45
15	A	851	BCR	C24-C23	2.23	1.39	1.33
15	B	845	BCR	C10-C9	2.23	1.38	1.35
15	A	850	BCR	C11-C12	2.23	1.40	1.34
13	B	811	CLA	C1-C2	2.23	1.55	1.49
15	L	1006	BCR	C24-C25	2.23	1.53	1.45
13	A	832	CLA	C1-C2	2.23	1.55	1.49
15	J	1104	BCR	C39-C30	-2.22	1.49	1.53
15	L	1005	BCR	C20-C19	2.22	1.40	1.34
15	M	1203	BCR	C24-C23	2.22	1.39	1.33
15	B	845	BCR	C20-C19	2.22	1.40	1.34
15	A	849	BCR	C24-C23	2.22	1.39	1.33
15	B	842	BCR	C20-C19	2.22	1.40	1.34
15	B	849	BCR	C39-C30	-2.22	1.49	1.53
13	B	828	CLA	C4B-CHC	-2.22	1.34	1.41
15	B	845	BCR	C26-C25	2.21	1.38	1.34
15	B	842	BCR	C7-C6	2.21	1.53	1.45
13	B	831	CLA	C4B-CHC	-2.21	1.34	1.41
13	J	1103	CLA	C1A-CHA	-2.21	1.33	1.43
15	B	849	BCR	C24-C23	2.21	1.39	1.33
15	B	843	BCR	C10-C9	2.21	1.38	1.35
13	A	801	CLA	C4B-CHC	-2.21	1.34	1.41
15	B	849	BCR	C20-C19	2.21	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	B	847	BCR	C20-C19	2.20	1.40	1.34
13	B	818	CLA	C4B-NB	2.20	1.37	1.35
15	A	850	BCR	C39-C30	-2.20	1.49	1.53
15	B	844	BCR	C29-C28	-2.20	1.47	1.52
13	B	835	CLA	C4B-NB	2.20	1.37	1.35
15	B	844	BCR	C24-C25	2.20	1.52	1.45
13	A	805	CLA	C3D-C4D	-2.19	1.39	1.44
13	A	842	CLA	C4B-CHC	-2.19	1.34	1.41
15	A	847	BCR	C20-C19	2.19	1.40	1.34
13	B	826	CLA	C5-C3	2.19	1.55	1.51
13	B	810	CLA	C4B-NB	2.19	1.37	1.35
15	A	848	BCR	C24-C25	2.19	1.52	1.45
13	B	819	CLA	C4B-CHC	-2.18	1.34	1.41
15	B	845	BCR	C31-C1	-2.18	1.49	1.53
15	A	849	BCR	C24-C25	2.18	1.52	1.45
15	B	847	BCR	C5-C6	2.17	1.38	1.34
13	B	828	CLA	C3B-C2B	-2.17	1.37	1.40
13	A	810	CLA	C4B-CHC	-2.17	1.35	1.41
15	F	1302	BCR	C24-C23	2.17	1.39	1.33
13	A	805	CLA	C1-C2	2.17	1.55	1.49
13	B	826	CLA	C4B-CHC	-2.17	1.35	1.41
15	L	1005	BCR	C31-C1	-2.17	1.49	1.53
13	B	814	CLA	C4B-CHC	-2.17	1.35	1.41
15	B	846	BCR	C20-C19	2.17	1.40	1.34
15	B	841	BCR	C20-C19	2.16	1.40	1.34
13	B	827	CLA	C4B-NB	2.16	1.37	1.35
15	B	846	BCR	C31-C1	-2.16	1.49	1.53
15	A	851	BCR	C24-C25	2.16	1.52	1.45
13	B	839	CLA	C4B-CHC	-2.16	1.35	1.41
13	A	820	CLA	C4B-CHC	-2.16	1.35	1.41
13	A	834	CLA	C3B-C2B	-2.16	1.37	1.40
13	B	827	CLA	O2D-CGD	2.16	1.38	1.33
13	B	835	CLA	C4B-CHC	-2.16	1.35	1.41
15	M	1203	BCR	C10-C9	2.16	1.38	1.35
15	M	1203	BCR	C24-C25	2.16	1.52	1.45
15	I	102	BCR	C24-C23	2.15	1.39	1.33
13	A	831	CLA	C5-C3	2.15	1.56	1.50
13	B	829	CLA	C4B-CHC	-2.15	1.35	1.41
15	B	850	BCR	C7-C6	2.15	1.52	1.45
15	B	842	BCR	C29-C28	-2.15	1.47	1.52
15	B	846	BCR	C29-C28	-2.15	1.47	1.52
15	M	1203	BCR	C29-C28	-2.15	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	834	CLA	C4B-CHC	-2.15	1.35	1.41
13	A	818	CLA	C4B-CHC	-2.15	1.35	1.41
15	A	848	BCR	C31-C1	-2.15	1.49	1.53
15	B	842	BCR	C8-C7	2.14	1.39	1.33
15	B	849	BCR	C24-C25	2.14	1.52	1.45
13	J	1103	CLA	C4B-CHC	-2.14	1.35	1.41
15	B	843	BCR	C24-C25	2.14	1.52	1.45
13	B	806	CLA	O2A-C1	-2.14	1.40	1.46
15	A	847	BCR	C7-C6	2.14	1.52	1.45
15	A	852	BCR	C11-C12	2.14	1.40	1.34
15	A	847	BCR	C11-C12	2.14	1.40	1.34
15	J	1104	BCR	C31-C1	-2.14	1.49	1.53
13	B	809	CLA	C4B-CHC	-2.14	1.35	1.41
15	B	841	BCR	C31-C1	-2.14	1.49	1.53
15	B	841	BCR	C29-C28	-2.14	1.47	1.52
13	B	826	CLA	O2D-CGD	2.14	1.38	1.33
15	B	843	BCR	C24-C23	2.14	1.39	1.33
15	J	1104	BCR	C7-C6	2.14	1.52	1.45
15	B	842	BCR	C11-C12	2.13	1.40	1.34
15	B	847	BCR	C29-C28	-2.13	1.47	1.52
13	A	805	CLA	C4B-CHC	-2.13	1.35	1.41
13	A	841	CLA	C4B-CHC	-2.13	1.35	1.41
13	I	101	CLA	C4B-CHC	-2.13	1.35	1.41
15	F	1302	BCR	C20-C19	2.13	1.40	1.34
15	L	1006	BCR	C31-C1	-2.13	1.49	1.53
15	F	1302	BCR	C31-C1	-2.13	1.49	1.53
13	A	822	CLA	C4B-CHC	-2.13	1.35	1.41
13	A	831	CLA	C4B-CHC	-2.13	1.35	1.41
13	B	804	CLA	C4B-CHC	-2.13	1.35	1.41
13	B	836	CLA	C1A-CHA	-2.13	1.34	1.43
15	B	850	BCR	C8-C7	2.12	1.39	1.33
13	B	813	CLA	C4B-NB	2.12	1.37	1.35
15	B	841	BCR	C11-C12	2.12	1.40	1.34
15	A	851	BCR	C29-C28	-2.12	1.47	1.52
15	F	1302	BCR	C24-C25	2.12	1.52	1.45
15	A	847	BCR	C31-C1	-2.12	1.49	1.53
13	A	819	CLA	C4B-CHC	-2.12	1.35	1.41
13	B	835	CLA	C1-C2	2.11	1.55	1.49
15	B	843	BCR	C7-C6	2.11	1.52	1.45
15	A	847	BCR	C29-C28	-2.11	1.47	1.52
15	B	849	BCR	C29-C28	-2.11	1.47	1.52
13	A	811	CLA	C4B-CHC	-2.11	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	B	816	CLA	C4B-CHC	-2.11	1.35	1.41
13	A	819	CLA	C1A-CHA	-2.11	1.34	1.43
13	B	821	CLA	C4B-CHC	-2.11	1.35	1.41
13	B	810	CLA	C4B-CHC	-2.11	1.35	1.41
15	B	850	BCR	C24-C25	2.11	1.52	1.45
15	A	849	BCR	C10-C9	2.11	1.38	1.35
18	B	848	LMG	O7-C10	2.11	1.40	1.34
13	B	822	CLA	C4B-CHC	-2.11	1.35	1.41
15	B	847	BCR	C11-C12	2.11	1.40	1.34
13	B	817	CLA	C4B-CHC	-2.11	1.35	1.41
15	J	1105	BCR	C11-C12	2.11	1.40	1.34
15	F	1302	BCR	C7-C6	2.11	1.52	1.45
15	B	846	BCR	C11-C12	2.11	1.40	1.34
15	A	848	BCR	C11-C12	2.10	1.40	1.34
15	B	850	BCR	C11-C12	2.10	1.40	1.34
13	B	806	CLA	C4B-CHC	-2.10	1.35	1.41
15	L	1005	BCR	C29-C28	-2.10	1.47	1.52
15	M	1203	BCR	C31-C1	-2.10	1.49	1.53
15	A	849	BCR	C29-C28	-2.10	1.47	1.52
13	A	842	CLA	C1A-CHA	-2.10	1.34	1.43
15	J	1104	BCR	C11-C12	2.10	1.40	1.34
15	B	843	BCR	C11-C12	2.10	1.40	1.34
18	B	848	LMG	O1-C7	-2.10	1.39	1.43
15	L	1006	BCR	C7-C6	2.10	1.52	1.45
13	A	823	CLA	C4B-CHC	-2.10	1.35	1.41
15	J	1105	BCR	C29-C28	-2.09	1.47	1.52
15	A	851	BCR	C31-C1	-2.09	1.49	1.53
15	L	1006	BCR	C11-C12	2.09	1.40	1.34
15	A	852	BCR	C31-C1	-2.09	1.49	1.53
13	A	802	CLA	C1A-CHA	-2.09	1.34	1.43
15	A	848	BCR	C29-C28	-2.09	1.47	1.52
15	A	852	BCR	C29-C28	-2.08	1.47	1.52
13	A	845	CLA	C4B-CHC	-2.08	1.35	1.41
15	A	852	BCR	C7-C6	2.08	1.52	1.45
15	A	850	BCR	C31-C1	-2.08	1.49	1.53
13	B	817	CLA	C1A-CHA	-2.08	1.34	1.43
13	A	855	CLA	C4B-CHC	-2.08	1.35	1.41
15	A	850	BCR	C29-C28	-2.08	1.47	1.52
15	B	846	BCR	C7-C6	2.08	1.52	1.45
13	A	834	CLA	C4B-NB	2.08	1.37	1.35
15	B	849	BCR	C10-C9	2.08	1.38	1.35
15	B	843	BCR	C8-C7	2.08	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	A	851	BCR	C11-C12	2.08	1.39	1.34
13	B	808	CLA	C4B-CHC	-2.07	1.35	1.41
13	A	817	CLA	C4B-CHC	-2.07	1.35	1.41
15	L	1005	BCR	C11-C12	2.07	1.39	1.34
13	A	837	CLA	C4B-CHC	-2.07	1.35	1.41
13	M	1201	CLA	C4B-CHC	-2.07	1.35	1.41
13	A	827	CLA	C4B-CHC	-2.07	1.35	1.41
15	F	1302	BCR	C29-C28	-2.07	1.47	1.52
13	A	812	CLA	C4B-CHC	-2.07	1.35	1.41
13	B	805	CLA	C4B-CHC	-2.07	1.35	1.41
15	B	847	BCR	C7-C6	2.07	1.52	1.45
13	A	820	CLA	C1A-CHA	-2.07	1.34	1.43
15	F	1302	BCR	C11-C12	2.07	1.39	1.34
13	F	1301	CLA	C4B-CHC	-2.07	1.35	1.41
15	B	850	BCR	C29-C28	-2.07	1.47	1.52
13	A	839	CLA	C4B-CHC	-2.06	1.35	1.41
15	B	841	BCR	C7-C6	2.06	1.52	1.45
13	M	1201	CLA	C1A-CHA	-2.06	1.34	1.43
15	I	102	BCR	C31-C1	-2.06	1.49	1.53
13	B	837	CLA	C1A-CHA	-2.06	1.34	1.43
13	B	801	CLA	C4B-CHC	-2.06	1.35	1.41
13	B	801	CLA	C1A-CHA	-2.05	1.34	1.43
13	B	810	CLA	C1A-CHA	-2.05	1.34	1.43
13	B	837	CLA	C4B-CHC	-2.05	1.35	1.41
13	B	820	CLA	C4B-CHC	-2.05	1.35	1.41
13	B	812	CLA	C4B-CHC	-2.05	1.35	1.41
13	A	824	CLA	C4B-CHC	-2.05	1.35	1.41
13	A	814	CLA	O2D-CGD	2.05	1.38	1.33
13	A	829	CLA	C1-C2	2.05	1.55	1.49
13	A	840	CLA	C4B-CHC	-2.05	1.35	1.41
15	I	102	BCR	C20-C19	2.05	1.39	1.34
13	A	821	CLA	C1A-CHA	-2.04	1.34	1.43
13	A	806	CLA	C4B-CHC	-2.04	1.35	1.41
13	A	845	CLA	O2A-C1	-2.04	1.40	1.46
15	I	102	BCR	C24-C25	2.04	1.52	1.45
13	A	829	CLA	C4B-CHC	-2.04	1.35	1.41
13	A	808	CLA	C1-C2	2.04	1.55	1.49
15	M	1203	BCR	C11-C12	2.04	1.39	1.34
15	I	102	BCR	C29-C28	-2.04	1.47	1.52
13	B	823	CLA	C4B-CHC	-2.04	1.35	1.41
13	B	807	CLA	C1A-CHA	-2.04	1.34	1.43
13	B	807	CLA	C4B-CHC	-2.04	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	J	1104	BCR	C8-C7	2.04	1.39	1.33
13	A	807	CLA	C4B-CHC	-2.04	1.35	1.41
13	A	816	CLA	C4B-CHC	-2.04	1.35	1.41
13	B	834	CLA	C4B-CHC	-2.04	1.35	1.41
15	A	849	BCR	C31-C1	-2.03	1.49	1.53
15	J	1105	BCR	C7-C6	2.03	1.52	1.45
15	F	1302	BCR	C8-C7	2.03	1.39	1.33
13	A	826	CLA	C1-C2	2.03	1.55	1.49
15	B	843	BCR	C31-C1	-2.03	1.49	1.53
13	B	816	CLA	C1A-CHA	-2.03	1.34	1.43
15	B	850	BCR	C31-C1	-2.03	1.49	1.53
13	B	803	CLA	C4B-CHC	-2.03	1.35	1.41
13	A	840	CLA	C1A-CHA	-2.03	1.34	1.43
13	A	801	CLA	C1-C2	2.03	1.55	1.49
13	A	831	CLA	C3B-C2B	-2.03	1.37	1.40
13	L	1002	CLA	C1A-CHA	-2.02	1.34	1.43
13	B	812	CLA	C1A-CHA	-2.02	1.34	1.43
13	A	826	CLA	C4B-CHC	-2.02	1.35	1.41
15	L	1006	BCR	C29-C28	-2.02	1.47	1.52
13	B	815	CLA	C4B-CHC	-2.02	1.35	1.41
13	J	1102	CLA	C4B-CHC	-2.02	1.35	1.41
13	L	1003	CLA	C1A-CHA	-2.02	1.34	1.43
13	B	830	CLA	C1-C2	2.02	1.55	1.49
13	A	828	CLA	C4B-CHC	-2.02	1.35	1.41
13	M	1201	CLA	C1-C2	2.02	1.55	1.49
13	B	803	CLA	C3B-C2B	-2.02	1.37	1.40
13	X	102	CLA	C4B-CHC	-2.02	1.35	1.41
13	A	816	CLA	C1A-CHA	-2.02	1.34	1.43
13	B	827	CLA	C1-C2	2.02	1.55	1.49
15	A	849	BCR	C20-C19	2.02	1.39	1.34
15	B	845	BCR	C7-C6	2.01	1.52	1.45
13	A	838	CLA	C1A-CHA	-2.01	1.34	1.43
13	I	101	CLA	C1A-CHA	-2.01	1.34	1.43
13	A	843	CLA	C4B-CHC	-2.01	1.35	1.41
13	A	834	CLA	C1A-CHA	-2.01	1.34	1.43
13	B	805	CLA	C1A-CHA	-2.01	1.34	1.43
13	L	1004	CLA	C4B-CHC	-2.01	1.35	1.41
15	A	851	BCR	C7-C6	2.01	1.52	1.45
13	A	818	CLA	O2A-C1	-2.01	1.40	1.46
15	B	847	BCR	C31-C1	-2.01	1.49	1.53
13	A	844	CLA	C4B-CHC	-2.01	1.35	1.41
15	B	845	BCR	C11-C12	2.01	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	809	CLA	C4B-CHC	-2.01	1.35	1.41
13	A	832	CLA	C1A-CHA	-2.01	1.34	1.43
13	B	836	CLA	C1-C2	2.01	1.55	1.49
13	B	832	CLA	C4B-CHC	-2.00	1.35	1.41
13	B	831	CLA	C1-C2	2.00	1.55	1.49
13	B	806	CLA	C1A-CHA	-2.00	1.34	1.43
15	I	102	BCR	C10-C9	2.00	1.38	1.35
13	B	838	CLA	C4B-CHC	-2.00	1.35	1.41
13	A	807	CLA	O2A-C1	-2.00	1.40	1.46
13	A	824	CLA	C1A-CHA	-2.00	1.34	1.43

All (1512) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	809	CLA	C4A-NA-C1A	11.51	111.88	106.71
13	A	808	CLA	C4A-NA-C1A	11.40	111.83	106.71
13	A	830	CLA	C4A-NA-C1A	11.31	111.79	106.71
13	M	1202	CLA	C4A-NA-C1A	11.22	111.75	106.71
13	B	827	CLA	C4A-NA-C1A	11.19	111.74	106.71
13	A	839	CLA	C4A-NA-C1A	11.17	111.73	106.71
13	A	819	CLA	C4A-NA-C1A	11.17	111.73	106.71
13	A	807	CLA	C4A-NA-C1A	11.05	111.67	106.71
13	A	825	CLA	C4A-NA-C1A	11.00	111.65	106.71
13	B	814	CLA	C4A-NA-C1A	10.95	111.63	106.71
13	A	826	CLA	C4A-NA-C1A	10.87	111.59	106.71
13	F	1301	CLA	C4A-NA-C1A	10.86	111.59	106.71
13	A	845	CLA	C4A-NA-C1A	10.78	111.55	106.71
13	B	830	CLA	C4A-NA-C1A	10.75	111.54	106.71
13	B	806	CLA	C4A-NA-C1A	10.71	111.52	106.71
13	B	833	CLA	C4A-NA-C1A	10.70	111.52	106.71
13	B	822	CLA	C4A-NA-C1A	10.67	111.50	106.71
13	M	1201	CLA	C4A-NA-C1A	10.66	111.50	106.71
13	A	810	CLA	C4A-NA-C1A	10.62	111.48	106.71
13	A	812	CLA	C4A-NA-C1A	10.59	111.47	106.71
13	A	816	CLA	C4A-NA-C1A	10.58	111.46	106.71
13	A	843	CLA	C4A-NA-C1A	10.58	111.46	106.71
13	A	838	CLA	C4A-NA-C1A	10.57	111.46	106.71
13	B	810	CLA	C4A-NA-C1A	10.57	111.46	106.71
13	A	831	CLA	C4A-NA-C1A	10.55	111.45	106.71
13	A	827	CLA	C4A-NA-C1A	10.52	111.43	106.71
13	B	807	CLA	C4A-NA-C1A	10.51	111.43	106.71
13	B	817	CLA	C4A-NA-C1A	10.51	111.43	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	832	CLA	C4A-NA-C1A	10.49	111.42	106.71
13	A	818	CLA	C4A-NA-C1A	10.47	111.41	106.71
13	A	821	CLA	C4A-NA-C1A	10.44	111.40	106.71
13	A	811	CLA	C4A-NA-C1A	10.43	111.40	106.71
13	A	820	CLA	C4A-NA-C1A	10.43	111.39	106.71
13	B	831	CLA	C4A-NA-C1A	10.42	111.39	106.71
13	I	101	CLA	C4A-NA-C1A	10.36	111.36	106.71
13	A	837	CLA	C4A-NA-C1A	10.35	111.36	106.71
13	B	838	CLA	C4A-NA-C1A	10.34	111.35	106.71
13	B	832	CLA	C4A-NA-C1A	10.33	111.35	106.71
13	A	833	CLA	C4A-NA-C1A	10.29	111.33	106.71
13	B	805	CLA	C4A-NA-C1A	10.27	111.33	106.71
13	B	834	CLA	C4A-NA-C1A	10.27	111.32	106.71
13	L	1004	CLA	C4A-NA-C1A	10.26	111.32	106.71
13	B	820	CLA	C4A-NA-C1A	10.24	111.31	106.71
13	L	1003	CLA	C4A-NA-C1A	10.23	111.31	106.71
13	A	855	CLA	C4A-NA-C1A	10.23	111.31	106.71
13	A	836	CLA	C4A-NA-C1A	10.22	111.30	106.71
13	A	813	CLA	C4A-NA-C1A	10.22	111.30	106.71
13	A	804	CLA	C4A-NA-C1A	10.21	111.30	106.71
13	A	806	CLA	C4A-NA-C1A	10.20	111.29	106.71
13	B	826	CLA	C4A-NA-C1A	10.15	111.27	106.71
13	B	837	CLA	C4A-NA-C1A	10.15	111.27	106.71
13	A	805	CLA	C4A-NA-C1A	10.15	111.27	106.71
13	B	804	CLA	C4A-NA-C1A	10.12	111.26	106.71
13	B	839	CLA	C4A-NA-C1A	10.12	111.26	106.71
13	J	1102	CLA	C4A-NA-C1A	10.12	111.26	106.71
13	A	823	CLA	C4A-NA-C1A	10.11	111.25	106.71
13	L	1002	CLA	C4A-NA-C1A	10.10	111.25	106.71
13	B	819	CLA	C4A-NA-C1A	10.10	111.25	106.71
13	B	809	CLA	C4A-NA-C1A	10.10	111.25	106.71
13	A	803	CLA	C4A-NA-C1A	10.09	111.24	106.71
13	B	815	CLA	C4A-NA-C1A	10.06	111.23	106.71
13	A	829	CLA	C4A-NA-C1A	10.05	111.23	106.71
13	A	817	CLA	C4A-NA-C1A	10.05	111.22	106.71
13	A	835	CLA	C4A-NA-C1A	10.04	111.22	106.71
13	A	841	CLA	C4A-NA-C1A	10.04	111.22	106.71
13	B	835	CLA	C4A-NA-C1A	10.04	111.22	106.71
13	J	1101	CLA	C4A-NA-C1A	10.04	111.22	106.71
13	A	828	CLA	C4A-NA-C1A	10.01	111.21	106.71
13	B	818	CLA	C4A-NA-C1A	10.00	111.20	106.71
13	A	840	CLA	C4A-NA-C1A	9.99	111.20	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	821	CLA	C4A-NA-C1A	9.96	111.18	106.71
13	B	823	CLA	C4A-NA-C1A	9.96	111.18	106.71
13	B	825	CLA	C4A-NA-C1A	9.96	111.18	106.71
13	B	836	CLA	C4A-NA-C1A	9.96	111.18	106.71
13	A	815	CLA	C4A-NA-C1A	9.94	111.18	106.71
13	A	822	CLA	C4A-NA-C1A	9.92	111.17	106.71
13	A	842	CLA	C4A-NA-C1A	9.92	111.17	106.71
13	B	811	CLA	C4A-NA-C1A	9.92	111.17	106.71
13	B	808	CLA	C4A-NA-C1A	9.91	111.16	106.71
13	B	816	CLA	C4A-NA-C1A	9.86	111.14	106.71
13	B	812	CLA	C4A-NA-C1A	9.81	111.11	106.71
13	B	829	CLA	C4A-NA-C1A	9.80	111.11	106.71
13	A	814	CLA	C4A-NA-C1A	9.79	111.11	106.71
13	B	824	CLA	C4A-NA-C1A	9.77	111.10	106.71
13	X	102	CLA	C4A-NA-C1A	9.70	111.07	106.71
13	B	828	CLA	C4A-NA-C1A	9.57	111.01	106.71
13	A	834	CLA	C4A-NA-C1A	9.51	110.98	106.71
13	A	824	CLA	C4A-NA-C1A	9.12	110.81	106.71
13	B	813	CLA	C4A-NA-C1A	9.10	110.80	106.71
13	B	802	CLA	C4A-NA-C1A	9.03	110.76	106.71
13	B	803	CLA	C4A-NA-C1A	9.00	110.75	106.71
13	A	802	CLA	C4A-NA-C1A	8.92	110.72	106.71
13	J	1103	CLA	C4A-NA-C1A	8.83	110.68	106.71
13	A	801	CLA	C4A-NA-C1A	8.70	110.62	106.71
13	B	801	CLA	C4A-NA-C1A	8.61	110.58	106.71
13	A	844	CLA	C4A-NA-C1A	8.49	110.53	106.71
13	X	102	CLA	O2D-CGD-CBD	8.49	126.35	111.27
13	B	802	CLA	O2D-CGD-CBD	8.45	126.28	111.27
13	A	822	CLA	O2D-CGD-CBD	8.42	126.23	111.27
13	B	831	CLA	O2D-CGD-CBD	8.39	126.18	111.27
13	B	817	CLA	O2D-CGD-CBD	7.84	125.19	111.27
13	A	808	CLA	O2D-CGD-CBD	7.67	124.90	111.27
13	A	812	CLA	O2D-CGD-CBD	7.66	124.87	111.27
13	A	840	CLA	O2D-CGD-CBD	7.63	124.83	111.27
13	A	832	CLA	O2D-CGD-CBD	7.60	124.77	111.27
15	A	852	BCR	C15-C14-C13	-7.52	116.57	127.31
13	A	824	CLA	O2D-CGD-CBD	7.51	124.61	111.27
13	A	821	CLA	O2D-CGD-CBD	7.41	124.43	111.27
13	A	811	CLA	O2D-CGD-CBD	7.31	124.26	111.27
13	B	833	CLA	O2D-CGD-CBD	7.29	124.22	111.27
13	M	1201	CLA	O2D-CGD-CBD	7.28	124.21	111.27
13	A	819	CLA	O2D-CGD-CBD	7.25	124.16	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	807	CLA	O2D-CGD-CBD	7.23	124.12	111.27
13	B	813	CLA	O2D-CGD-CBD	7.22	124.10	111.27
15	B	849	BCR	C15-C14-C13	-7.17	117.08	127.31
13	B	808	CLA	O2D-CGD-CBD	7.14	123.95	111.27
13	B	812	CLA	O2D-CGD-CBD	7.10	123.89	111.27
13	B	822	CLA	O2D-CGD-CBD	7.07	123.83	111.27
13	B	827	CLA	O2D-CGD-CBD	7.04	123.78	111.27
13	A	810	CLA	O2D-CGD-CBD	7.04	123.77	111.27
13	A	801	CLA	O2D-CGD-CBD	7.03	123.76	111.27
13	A	839	CLA	O2D-CGD-CBD	6.93	123.59	111.27
13	B	814	CLA	O2D-CGD-CBD	6.87	123.48	111.27
13	B	809	CLA	O2D-CGD-CBD	6.84	123.43	111.27
13	B	824	CLA	O2D-CGD-CBD	6.75	123.25	111.27
13	L	1003	CLA	O2D-CGD-CBD	6.74	123.24	111.27
13	A	829	CLA	O2D-CGD-CBD	6.72	123.21	111.27
13	B	811	CLA	O2D-CGD-CBD	6.71	123.19	111.27
13	J	1102	CLA	O2D-CGD-CBD	6.71	123.19	111.27
13	B	801	CLA	O2D-CGD-CBD	6.64	123.07	111.27
13	A	845	CLA	O2D-CGD-CBD	6.64	123.06	111.27
13	A	815	CLA	O2D-CGD-CBD	6.62	123.04	111.27
13	A	813	CLA	O2D-CGD-CBD	6.61	123.02	111.27
13	B	837	CLA	O2D-CGD-CBD	6.60	123.00	111.27
13	B	819	CLA	O2D-CGD-CBD	6.60	123.00	111.27
13	L	1004	CLA	O2D-CGD-CBD	6.55	122.90	111.27
13	B	834	CLA	O2D-CGD-CBD	6.49	122.81	111.27
13	F	1301	CLA	O2D-CGD-CBD	6.46	122.75	111.27
13	J	1101	CLA	O2D-CGD-CBD	6.44	122.71	111.27
13	B	836	CLA	O2D-CGD-CBD	6.43	122.69	111.27
13	A	855	CLA	O2D-CGD-CBD	6.42	122.68	111.27
13	A	805	CLA	O2D-CGD-CBD	6.40	122.64	111.27
13	A	838	CLA	O2D-CGD-CBD	6.37	122.58	111.27
13	A	825	CLA	O2D-CGD-CBD	6.36	122.57	111.27
13	L	1002	CLA	O2D-CGD-CBD	6.34	122.54	111.27
13	B	830	CLA	O2D-CGD-CBD	6.31	122.48	111.27
13	M	1202	CLA	O2D-CGD-CBD	6.29	122.44	111.27
13	B	828	CLA	O2D-CGD-CBD	6.26	122.39	111.27
13	I	101	CLA	O2D-CGD-CBD	6.25	122.38	111.27
13	A	818	CLA	O2D-CGD-CBD	6.14	122.18	111.27
13	A	843	CLA	O2D-CGD-CBD	6.10	122.11	111.27
13	B	803	CLA	O2D-CGD-CBD	5.99	121.91	111.27
13	B	832	CLA	O2D-CGD-CBD	5.99	121.91	111.27
13	A	836	CLA	O2D-CGD-CBD	5.98	121.90	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B	848	LMG	C30-C29-C28	5.96	135.30	113.62
13	B	804	CLA	O2D-CGD-CBD	5.94	121.83	111.27
13	B	839	CLA	O2D-CGD-CBD	5.93	121.81	111.27
15	A	850	BCR	C7-C8-C9	-5.91	117.31	126.23
13	A	828	CLA	O2D-CGD-CBD	5.82	121.61	111.27
15	B	849	BCR	C11-C10-C9	-5.80	119.03	127.31
13	A	830	CLA	O2D-CGD-CBD	5.80	121.58	111.27
15	B	844	BCR	C15-C14-C13	-5.78	119.01	127.30
13	B	838	CLA	O2D-CGD-CBD	5.77	121.53	111.27
13	B	802	CLA	O1D-CGD-CBD	-5.73	112.77	124.48
13	A	822	CLA	O1D-CGD-CBD	-5.70	112.82	124.48
13	B	835	CLA	O2D-CGD-CBD	5.69	121.38	111.27
13	A	809	CLA	O2D-CGD-CBD	5.64	121.30	111.27
15	F	1302	BCR	C15-C14-C13	-5.56	119.38	127.31
13	B	816	CLA	O2D-CGD-CBD	5.53	121.10	111.27
13	A	827	CLA	O2D-CGD-CBD	5.52	121.07	111.27
13	B	823	CLA	O2D-CGD-CBD	5.42	120.90	111.27
13	A	837	CLA	O2D-CGD-CBD	5.42	120.89	111.27
13	A	834	CLA	O2D-CGD-CBD	5.38	120.83	111.27
15	B	845	BCR	C15-C14-C13	-5.36	119.66	127.31
13	A	814	CLA	O2D-CGD-CBD	5.28	120.66	111.27
15	M	1203	BCR	C33-C5-C6	-5.27	118.61	124.53
15	B	845	BCR	C38-C26-C25	-5.27	118.61	124.53
13	A	807	CLA	CED-O2D-CGD	5.25	127.80	115.94
15	B	843	BCR	C2-C1-C6	5.22	118.51	110.48
13	X	102	CLA	O1D-CGD-CBD	-5.22	113.81	124.48
15	J	1104	BCR	C29-C30-C25	5.19	118.47	110.48
13	B	806	CLA	O2D-CGD-CBD	5.18	120.47	111.27
13	A	802	CLA	O2D-CGD-CBD	5.18	120.47	111.27
15	A	852	BCR	C15-C16-C17	-5.14	112.94	123.47
15	B	845	BCR	C29-C30-C25	5.12	118.36	110.48
13	A	807	CLA	C4-C3-C5	5.11	121.82	115.98
15	B	850	BCR	C2-C1-C6	5.10	118.33	110.48
15	B	847	BCR	C33-C5-C6	-5.08	118.82	124.53
15	B	842	BCR	C2-C1-C6	5.07	118.28	110.48
13	A	826	CLA	O2D-CGD-CBD	5.05	120.24	111.27
15	B	847	BCR	C2-C1-C6	5.02	118.21	110.48
15	L	1005	BCR	C16-C17-C18	-5.01	120.16	127.31
15	B	842	BCR	C15-C14-C13	-4.97	120.22	127.31
13	A	804	CLA	O2D-CGD-CBD	4.97	120.10	111.27
15	B	850	BCR	C7-C8-C9	-4.97	118.73	126.23
13	I	101	CLA	O1D-CGD-CBD	-4.92	114.42	124.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	852	BCR	C33-C5-C6	-4.91	119.02	124.53
15	B	842	BCR	C33-C5-C6	-4.87	119.06	124.53
15	M	1203	BCR	C2-C1-C6	4.82	117.90	110.48
15	I	102	BCR	C2-C1-C6	4.81	117.89	110.48
13	A	818	CLA	C1-O2A-CGA	4.80	129.04	116.44
15	B	850	BCR	C38-C26-C25	-4.74	119.21	124.53
13	A	835	CLA	O2D-CGD-CBD	4.60	119.44	111.27
13	B	825	CLA	O2D-CGD-CBD	4.57	119.39	111.27
15	I	102	BCR	C33-C5-C6	-4.55	119.42	124.53
15	A	851	BCR	C15-C14-C13	-4.55	120.82	127.31
13	A	829	CLA	C1-O2A-CGA	4.54	128.35	116.44
13	B	806	CLA	C1-C2-C3	-4.54	118.20	126.04
15	L	1006	BCR	C16-C17-C18	-4.53	120.84	127.31
15	I	102	BCR	C38-C26-C25	-4.50	119.48	124.53
15	L	1005	BCR	C38-C26-C25	-4.48	119.50	124.53
15	B	843	BCR	C16-C17-C18	-4.48	120.92	127.31
15	A	849	BCR	C16-C17-C18	-4.46	120.94	127.31
15	B	843	BCR	C29-C30-C25	4.46	117.34	110.48
13	A	840	CLA	O1D-CGD-CBD	-4.46	115.37	124.48
13	B	802	CLA	C1-C2-C3	-4.45	118.35	126.04
13	A	831	CLA	O2D-CGD-CBD	4.44	119.16	111.27
15	B	843	BCR	C33-C5-C6	-4.44	119.54	124.53
15	B	850	BCR	C15-C14-C13	-4.44	120.98	127.31
15	F	1302	BCR	C33-C5-C6	-4.43	119.55	124.53
15	B	847	BCR	C16-C17-C18	-4.43	120.99	127.31
15	A	852	BCR	C38-C26-C25	-4.41	119.58	124.53
15	A	851	BCR	C38-C26-C25	-4.38	119.61	124.53
13	A	819	CLA	C4-C3-C5	4.37	122.62	115.27
15	J	1105	BCR	C38-C26-C25	-4.36	119.63	124.53
13	A	820	CLA	O2D-CGD-CBD	4.35	118.99	111.27
13	A	829	CLA	CAA-CBA-CGA	-4.34	100.57	113.25
13	A	832	CLA	O1D-CGD-CBD	-4.33	115.62	124.48
13	A	806	CLA	C1-C2-C3	-4.32	118.57	126.04
15	L	1006	BCR	C38-C26-C25	-4.29	119.70	124.53
15	F	1302	BCR	C11-C10-C9	-4.29	121.19	127.31
15	B	850	BCR	C16-C17-C18	-4.29	121.19	127.31
14	B	840	PQN	C11-C12-C13	-4.29	119.66	126.79
15	A	851	BCR	C33-C5-C6	-4.27	119.74	124.53
13	A	803	CLA	O2D-CGD-CBD	4.26	118.84	111.27
15	L	1006	BCR	C24-C23-C22	-4.24	119.82	126.23
15	B	843	BCR	C3-C4-C5	4.24	121.65	114.08
15	A	850	BCR	C24-C23-C22	-4.23	119.84	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	B	849	BCR	C38-C26-C25	-4.23	119.78	124.53
15	A	851	BCR	C24-C23-C22	-4.23	119.85	126.23
13	B	838	CLA	CAA-CBA-CGA	-4.22	100.92	113.25
13	A	806	CLA	O2D-CGD-CBD	4.22	118.76	111.27
15	L	1005	BCR	C33-C5-C6	-4.19	119.83	124.53
15	B	843	BCR	C23-C24-C25	-4.16	115.52	127.20
15	A	848	BCR	C38-C26-C25	-4.15	119.87	124.53
15	B	847	BCR	C38-C26-C25	-4.13	119.89	124.53
15	B	841	BCR	C16-C17-C18	-4.13	121.42	127.31
15	J	1105	BCR	C33-C5-C6	-4.13	119.89	124.53
15	B	842	BCR	C24-C23-C22	-4.12	120.00	126.23
15	B	850	BCR	C11-C10-C9	-4.12	121.43	127.31
15	A	849	BCR	C20-C21-C22	-4.12	121.43	127.31
15	A	848	BCR	C33-C5-C6	-4.12	119.91	124.53
15	J	1104	BCR	C38-C26-C25	-4.10	119.93	124.53
13	B	826	CLA	O2D-CGD-CBD	4.09	118.54	111.27
15	A	850	BCR	C38-C26-C25	-4.09	119.94	124.53
15	B	841	BCR	C33-C5-C6	-4.08	119.94	124.53
15	B	846	BCR	C16-C17-C18	-4.08	121.48	127.31
13	B	805	CLA	O2D-CGD-CBD	4.08	118.52	111.27
15	J	1104	BCR	C33-C5-C6	-4.08	119.95	124.53
13	A	845	CLA	CAA-CBA-CGA	-4.07	101.36	113.25
13	A	808	CLA	O2D-CGD-O1D	-4.07	115.89	123.84
15	L	1005	BCR	C7-C8-C9	-4.06	120.10	126.23
15	J	1104	BCR	C28-C27-C26	4.04	121.29	114.08
13	B	805	CLA	C1-C2-C3	-4.04	119.06	126.04
15	A	848	BCR	C24-C23-C22	-4.03	120.14	126.23
15	A	847	BCR	C2-C1-C6	4.03	116.68	110.48
15	B	842	BCR	C11-C10-C9	-4.01	121.58	127.31
15	B	841	BCR	C2-C1-C6	4.01	116.66	110.48
15	A	848	BCR	C16-C17-C18	-4.00	121.60	127.31
15	M	1203	BCR	C8-C7-C6	-4.00	115.97	127.20
15	B	844	BCR	C38-C26-C25	-3.98	120.06	124.53
15	B	843	BCR	C38-C26-C25	-3.98	120.06	124.53
15	J	1104	BCR	C2-C1-C6	3.97	116.58	110.48
15	B	842	BCR	C3-C4-C5	3.96	121.16	114.08
15	A	849	BCR	C33-C5-C6	-3.96	120.09	124.53
15	A	851	BCR	C16-C17-C18	-3.95	121.67	127.31
13	B	831	CLA	O1D-CGD-CBD	-3.95	116.39	124.48
15	B	845	BCR	C24-C23-C22	-3.95	120.26	126.23
13	B	812	CLA	O1D-CGD-CBD	-3.94	116.42	124.48
15	A	848	BCR	C7-C8-C9	-3.94	120.28	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	847	BCR	C16-C17-C18	-3.94	121.69	127.31
15	L	1005	BCR	C2-C1-C6	3.92	116.51	110.48
13	B	829	CLA	O2D-CGD-CBD	3.90	118.19	111.27
15	J	1104	BCR	C7-C8-C9	-3.89	120.36	126.23
13	B	807	CLA	C2D-C1D-ND	3.89	112.97	110.10
16	A	854	LHG	O7-C7-C8	3.89	119.88	111.50
15	B	846	BCR	C20-C21-C22	-3.88	121.78	127.31
13	A	841	CLA	O2D-CGD-CBD	3.87	118.14	111.27
16	A	853	LHG	O7-C7-C8	3.87	119.83	111.50
15	L	1005	BCR	C16-C15-C14	-3.86	115.56	123.47
15	A	850	BCR	C2-C1-C6	3.86	116.43	110.48
15	A	849	BCR	C7-C8-C9	-3.85	120.42	126.23
15	M	1203	BCR	C3-C4-C5	3.85	120.95	114.08
15	A	847	BCR	C33-C5-C6	-3.84	120.21	124.53
15	A	848	BCR	C2-C1-C6	3.84	116.39	110.48
13	B	827	CLA	C2D-C1D-ND	3.84	112.93	110.10
13	B	802	CLA	C4D-C3D-CAD	-3.84	103.57	108.10
15	B	842	BCR	C20-C21-C22	-3.83	121.84	127.31
13	B	829	CLA	CAA-CBA-CGA	-3.83	102.06	113.25
15	A	852	BCR	C38-C26-C27	3.83	120.97	113.62
15	B	845	BCR	C28-C27-C26	3.82	120.91	114.08
15	A	849	BCR	C38-C26-C25	-3.82	120.24	124.53
15	B	842	BCR	C38-C26-C25	-3.82	120.24	124.53
13	A	819	CLA	O1D-CGD-CBD	-3.82	116.67	124.48
15	I	102	BCR	C7-C8-C9	-3.82	120.47	126.23
15	B	850	BCR	C24-C23-C22	-3.81	120.47	126.23
15	B	846	BCR	C33-C5-C6	-3.81	120.25	124.53
15	B	845	BCR	C2-C1-C6	3.81	116.35	110.48
15	J	1104	BCR	C15-C14-C13	-3.79	121.90	127.31
15	A	849	BCR	C15-C14-C13	-3.78	121.91	127.31
13	A	812	CLA	O1D-CGD-CBD	-3.78	116.75	124.48
15	J	1105	BCR	C38-C26-C27	3.78	120.88	113.62
15	B	846	BCR	C2-C1-C6	3.78	116.30	110.48
15	B	849	BCR	C33-C5-C6	-3.77	120.29	124.53
15	L	1005	BCR	C24-C23-C22	-3.77	120.54	126.23
15	L	1005	BCR	C38-C26-C27	3.77	120.86	113.62
15	L	1006	BCR	C20-C21-C22	-3.76	121.94	127.31
13	A	809	CLA	C2D-C1D-ND	3.75	112.87	110.10
13	A	818	CLA	O2D-CGD-O1D	-3.74	116.52	123.84
13	A	809	CLA	O2A-CGA-CBA	3.74	123.64	111.91
13	A	807	CLA	C2D-C1D-ND	3.74	112.86	110.10
15	B	850	BCR	C38-C26-C27	3.74	120.79	113.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	I	102	BCR	C23-C24-C25	-3.73	116.73	127.20
13	A	830	CLA	C2D-C1D-ND	3.73	112.85	110.10
15	L	1006	BCR	C2-C1-C6	3.72	116.21	110.48
15	J	1105	BCR	C2-C1-C6	3.72	116.21	110.48
13	A	841	CLA	C4-C3-C5	3.71	120.23	115.98
15	M	1203	BCR	C38-C26-C25	-3.71	120.36	124.53
15	B	849	BCR	C7-C8-C9	-3.71	120.63	126.23
15	A	847	BCR	C29-C30-C25	3.70	116.18	110.48
15	B	847	BCR	C20-C21-C22	-3.70	122.03	127.31
15	B	849	BCR	C16-C17-C18	-3.70	122.04	127.31
13	A	833	CLA	O2D-CGD-CBD	3.69	117.83	111.27
13	A	839	CLA	O2D-CGD-O1D	-3.69	116.62	123.84
13	A	823	CLA	O2D-CGD-CBD	3.69	117.82	111.27
15	B	845	BCR	C33-C5-C6	-3.69	120.39	124.53
15	A	848	BCR	C38-C26-C27	3.69	120.70	113.62
13	A	840	CLA	C2D-C1D-ND	3.67	112.81	110.10
15	I	102	BCR	C38-C26-C27	3.66	120.66	113.62
13	B	807	CLA	O1D-CGD-CBD	-3.66	116.99	124.48
15	A	850	BCR	C20-C21-C22	-3.66	122.08	127.31
15	J	1105	BCR	C24-C23-C22	-3.66	120.71	126.23
13	A	823	CLA	C1-C2-C3	-3.65	119.72	126.04
13	B	804	CLA	C1-C2-C3	-3.65	119.73	126.04
15	A	850	BCR	C16-C17-C18	-3.65	122.10	127.31
15	B	850	BCR	C3-C4-C5	3.65	120.59	114.08
13	B	830	CLA	O2D-CGD-O1D	-3.64	116.71	123.84
13	A	831	CLA	C1-C2-C3	-3.64	120.86	126.75
15	B	845	BCR	C15-C16-C17	-3.63	116.03	123.47
13	A	815	CLA	O1D-CGD-CBD	-3.63	117.05	124.48
15	F	1302	BCR	C38-C26-C25	-3.63	120.45	124.53
15	J	1105	BCR	C16-C17-C18	-3.63	122.13	127.31
13	A	818	CLA	O2A-C1-C2	-3.63	99.10	108.64
15	I	102	BCR	C3-C4-C5	3.62	120.55	114.08
15	A	852	BCR	C33-C5-C4	3.62	120.57	113.62
13	A	832	CLA	O2A-C1-C2	3.62	118.15	108.64
15	A	848	BCR	C33-C5-C4	3.62	120.56	113.62
13	B	814	CLA	C2D-C1D-ND	3.61	112.77	110.10
13	B	810	CLA	O2D-CGD-CBD	3.61	117.68	111.27
15	B	849	BCR	C15-C16-C17	-3.60	116.09	123.47
13	A	821	CLA	C1-C2-C3	-3.60	119.81	126.04
15	B	841	BCR	C33-C5-C4	3.60	120.54	113.62
15	F	1302	BCR	C15-C16-C17	-3.60	116.10	123.47
13	B	817	CLA	O2D-CGD-O1D	-3.60	116.80	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	851	BCR	C38-C26-C27	3.59	120.52	113.62
15	B	847	BCR	C3-C4-C5	3.59	120.49	114.08
15	F	1302	BCR	C2-C1-C6	3.59	116.01	110.48
15	A	850	BCR	C11-C10-C9	-3.59	122.19	127.31
15	J	1104	BCR	C33-C5-C4	3.59	120.51	113.62
15	J	1105	BCR	C33-C5-C4	3.58	120.50	113.62
13	A	842	CLA	C4-C3-C5	3.58	121.29	115.27
15	M	1203	BCR	C38-C26-C27	3.58	120.49	113.62
13	A	837	CLA	C2D-C1D-ND	3.57	112.74	110.10
13	I	101	CLA	C2D-C1D-ND	3.57	112.73	110.10
13	B	838	CLA	O2A-CGA-CBA	3.57	123.10	111.91
15	A	850	BCR	C38-C26-C27	3.57	120.47	113.62
13	A	821	CLA	O2D-CGD-O1D	-3.57	116.87	123.84
15	A	847	BCR	C20-C21-C22	-3.56	122.23	127.31
15	B	845	BCR	C20-C21-C22	-3.56	122.24	127.31
13	M	1201	CLA	C2D-C1D-ND	3.55	112.72	110.10
15	M	1203	BCR	C24-C23-C22	-3.55	120.87	126.23
15	B	841	BCR	C29-C30-C25	3.54	115.93	110.48
15	L	1006	BCR	C38-C26-C27	3.54	120.41	113.62
15	J	1105	BCR	C15-C14-C13	-3.54	122.26	127.31
15	F	1302	BCR	C33-C5-C4	3.53	120.41	113.62
15	L	1005	BCR	C11-C10-C9	-3.53	122.27	127.31
13	A	843	CLA	O1D-CGD-CBD	-3.53	117.26	124.48
15	L	1005	BCR	C33-C5-C4	3.53	120.39	113.62
15	B	846	BCR	C10-C11-C12	-3.53	112.22	123.22
15	I	102	BCR	C16-C17-C18	-3.52	122.28	127.31
15	M	1203	BCR	C10-C11-C12	-3.52	112.23	123.22
15	J	1105	BCR	C29-C30-C25	3.52	115.90	110.48
15	B	850	BCR	C20-C21-C22	-3.50	122.31	127.31
15	B	844	BCR	C38-C26-C27	3.50	120.34	113.62
13	A	827	CLA	C2D-C1D-ND	3.50	112.68	110.10
13	L	1003	CLA	O1D-CGD-CBD	-3.50	117.33	124.48
13	B	820	CLA	O2D-CGD-CBD	3.50	117.48	111.27
15	A	850	BCR	C33-C5-C6	-3.49	120.61	124.53
15	B	849	BCR	C33-C5-C4	3.49	120.32	113.62
13	M	1201	CLA	O1D-CGD-CBD	-3.49	117.35	124.48
13	A	816	CLA	O2D-CGD-CBD	3.48	117.46	111.27
15	A	852	BCR	C29-C30-C25	3.48	115.84	110.48
15	B	847	BCR	C38-C26-C27	3.48	120.30	113.62
15	A	849	BCR	C38-C26-C27	3.48	120.30	113.62
15	B	850	BCR	C33-C5-C6	-3.47	120.63	124.53
15	A	851	BCR	C2-C1-C6	3.47	115.83	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	X	101	LHG	O7-C7-C8	3.46	118.97	111.50
13	A	817	CLA	O2D-CGD-CBD	3.46	117.42	111.27
15	B	846	BCR	C29-C30-C25	3.46	115.81	110.48
15	B	841	BCR	C20-C21-C22	-3.46	122.38	127.31
13	A	825	CLA	O1D-CGD-CBD	-3.46	117.41	124.48
15	A	849	BCR	C2-C1-C6	3.45	115.79	110.48
15	F	1302	BCR	C20-C21-C22	-3.45	122.39	127.31
15	B	849	BCR	C38-C26-C27	3.44	120.23	113.62
13	B	816	CLA	C4-C3-C5	3.44	121.05	115.27
15	A	850	BCR	C33-C5-C4	3.42	120.19	113.62
13	B	818	CLA	O2D-CGD-CBD	3.42	117.34	111.27
13	B	838	CLA	C4-C3-C5	3.42	121.02	115.27
15	M	1203	BCR	C16-C17-C18	-3.42	122.43	127.31
13	A	805	CLA	C2D-C1D-ND	3.42	112.62	110.10
15	A	847	BCR	C33-C5-C4	3.41	120.17	113.62
13	A	823	CLA	C4-C3-C5	3.41	119.88	115.98
13	A	810	CLA	C2D-C1D-ND	3.40	112.61	110.10
15	A	851	BCR	C33-C5-C4	3.40	120.15	113.62
15	B	849	BCR	C23-C24-C25	-3.40	117.66	127.20
13	A	830	CLA	C4-C3-C5	3.40	120.98	115.27
14	A	846	PQN	C11-C12-C13	-3.40	121.14	126.79
13	A	802	CLA	C1-C2-C3	-3.39	120.17	126.04
13	B	811	CLA	O2A-CGA-CBA	3.39	122.55	111.91
15	B	843	BCR	C10-C11-C12	-3.39	112.64	123.22
13	F	1301	CLA	O2D-CGD-O1D	-3.38	117.22	123.84
13	B	831	CLA	C2D-C1D-ND	3.38	112.59	110.10
13	A	828	CLA	C1-C2-C3	-3.38	120.20	126.04
13	A	808	CLA	O2A-CGA-CBA	3.38	122.50	111.91
15	B	843	BCR	C23-C22-C21	-3.37	113.77	118.94
13	B	815	CLA	O2D-CGD-CBD	3.37	117.25	111.27
15	B	845	BCR	C33-C5-C4	3.37	120.08	113.62
13	A	824	CLA	O1D-CGD-CBD	-3.36	117.61	124.48
13	A	809	CLA	CAA-CBA-CGA	-3.36	103.43	113.25
13	A	819	CLA	CBA-CAA-C2A	-3.36	103.95	113.86
13	A	822	CLA	C2D-C1D-ND	3.36	112.58	110.10
15	B	846	BCR	C24-C23-C22	-3.36	121.17	126.23
15	A	850	BCR	C29-C30-C25	3.35	115.64	110.48
13	B	825	CLA	C1-O2A-CGA	3.35	125.23	116.44
15	I	102	BCR	C15-C14-C13	-3.35	122.53	127.31
15	B	844	BCR	C29-C30-C25	3.35	115.64	110.48
13	A	845	CLA	C6-C5-C3	-3.35	109.14	114.62
15	B	850	BCR	C23-C24-C25	-3.35	117.80	127.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	848	BCR	C29-C30-C25	3.35	115.63	110.48
15	M	1203	BCR	C29-C30-C25	3.34	115.63	110.48
15	F	1302	BCR	C7-C8-C9	-3.34	121.18	126.23
13	A	812	CLA	C1-C2-C3	-3.34	120.26	126.04
13	A	817	CLA	CAA-CBA-CGA	-3.34	103.50	113.25
13	A	828	CLA	C2D-C1D-ND	3.34	112.56	110.10
15	B	847	BCR	C33-C5-C4	3.33	120.02	113.62
13	B	806	CLA	C1-O2A-CGA	3.33	125.18	116.44
15	B	846	BCR	C33-C5-C4	3.33	120.01	113.62
15	F	1302	BCR	C38-C26-C27	3.33	120.01	113.62
15	A	849	BCR	C29-C30-C25	3.33	115.60	110.48
13	B	837	CLA	O1D-CGD-CBD	-3.33	117.68	124.48
13	B	803	CLA	C4D-C3D-CAD	-3.32	104.18	108.10
15	J	1104	BCR	C16-C17-C18	-3.32	122.57	127.31
13	A	837	CLA	C4-C3-C5	3.32	119.78	115.98
16	A	854	LHG	O8-C23-C24	3.32	120.08	111.38
15	B	841	BCR	C10-C11-C12	-3.32	112.87	123.22
15	M	1203	BCR	C33-C5-C4	3.31	119.98	113.62
13	A	817	CLA	C2D-C1D-ND	3.31	112.54	110.10
13	A	818	CLA	C4-C3-C5	3.31	120.83	115.27
15	A	847	BCR	C24-C23-C22	-3.30	121.24	126.23
15	A	852	BCR	C2-C1-C6	3.30	115.56	110.48
15	L	1006	BCR	C29-C30-C25	3.30	115.56	110.48
13	B	804	CLA	C4-C3-C5	3.30	120.82	115.27
15	A	848	BCR	C20-C21-C22	-3.30	122.61	127.31
15	A	851	BCR	C20-C21-C22	-3.29	122.61	127.31
15	A	849	BCR	C10-C11-C12	-3.29	112.95	123.22
15	I	102	BCR	C10-C11-C12	-3.29	112.95	123.22
13	B	831	CLA	O2D-CGD-O1D	-3.29	117.41	123.84
13	B	801	CLA	C1-C2-C3	-3.29	120.36	126.04
13	B	802	CLA	C2D-C1D-ND	3.29	112.53	110.10
13	B	820	CLA	C4-C3-C5	3.28	120.79	115.27
15	B	849	BCR	C2-C1-C6	3.28	115.53	110.48
15	F	1302	BCR	C24-C23-C22	-3.27	121.29	126.23
13	L	1003	CLA	C1-C2-C3	-3.27	120.38	126.04
13	B	821	CLA	CED-O2D-CGD	3.27	123.34	115.94
13	A	811	CLA	O1D-CGD-CBD	-3.27	117.79	124.48
13	A	801	CLA	C2D-C1D-ND	3.27	112.52	110.10
15	B	847	BCR	C12-C13-C14	-3.27	113.92	118.94
13	A	843	CLA	C4-C3-C5	3.27	120.77	115.27
15	B	841	BCR	C24-C23-C22	-3.26	121.31	126.23
13	B	809	CLA	C2D-C1D-ND	3.25	112.50	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	B	842	BCR	C15-C16-C17	-3.25	116.82	123.47
15	A	849	BCR	C33-C5-C4	3.25	119.86	113.62
15	L	1005	BCR	C29-C30-C25	3.25	115.48	110.48
13	B	807	CLA	C1-C2-C3	-3.24	120.44	126.04
13	B	833	CLA	O2D-CGD-O1D	-3.24	117.51	123.84
13	A	803	CLA	C1-C2-C3	-3.24	120.44	126.04
15	B	847	BCR	C8-C7-C6	-3.24	118.11	127.20
15	B	845	BCR	C38-C26-C27	3.23	119.82	113.62
15	I	102	BCR	C8-C7-C6	-3.23	118.13	127.20
15	B	841	BCR	C15-C14-C13	-3.23	122.70	127.31
15	A	847	BCR	C10-C11-C12	-3.22	113.16	123.22
15	I	102	BCR	C33-C5-C4	3.22	119.80	113.62
13	B	801	CLA	O1D-CGD-CBD	-3.22	117.90	124.48
13	B	804	CLA	C2D-C1D-ND	3.22	112.47	110.10
13	B	806	CLA	C2D-C1D-ND	3.21	112.47	110.10
13	A	820	CLA	C1-C2-C3	-3.21	120.48	126.04
13	A	811	CLA	C2D-C1D-ND	3.21	112.47	110.10
15	B	845	BCR	C10-C11-C12	-3.21	113.20	123.22
13	B	813	CLA	O1D-CGD-CBD	-3.21	117.92	124.48
15	B	846	BCR	C38-C26-C27	3.20	119.76	113.62
15	M	1203	BCR	C15-C14-C13	-3.20	122.75	127.31
15	B	847	BCR	C24-C23-C22	-3.19	121.41	126.23
13	A	824	CLA	C4D-C3D-CAD	-3.19	104.34	108.10
13	A	831	CLA	C2D-C1D-ND	3.19	112.45	110.10
13	I	101	CLA	C1-C2-C3	-3.18	120.55	126.04
15	B	846	BCR	C8-C7-C6	-3.18	118.28	127.20
15	B	841	BCR	C38-C26-C27	3.17	119.71	113.62
13	B	801	CLA	C2D-C1D-ND	3.17	112.44	110.10
13	A	808	CLA	C2D-C1D-ND	3.17	112.44	110.10
13	L	1002	CLA	C4D-C3D-CAD	-3.17	104.36	108.10
13	B	817	CLA	O1D-CGD-CBD	-3.17	118.00	124.48
13	B	832	CLA	C2D-C1D-ND	3.17	112.44	110.10
13	A	819	CLA	C2D-C1D-ND	3.17	112.44	110.10
13	B	825	CLA	C4-C3-C5	3.16	120.59	115.27
15	J	1105	BCR	C8-C7-C6	-3.16	118.31	127.20
15	A	849	BCR	C23-C24-C25	-3.16	118.32	127.20
15	B	843	BCR	C28-C27-C26	3.16	119.72	114.08
13	A	829	CLA	O1D-CGD-CBD	-3.16	118.02	124.48
15	M	1203	BCR	C20-C21-C22	-3.16	122.80	127.31
13	A	843	CLA	C2D-C1D-ND	3.16	112.43	110.10
13	B	827	CLA	O2D-CGD-O1D	-3.15	117.67	123.84
15	B	844	BCR	C15-C16-C17	-3.15	117.02	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	832	CLA	O2A-CGA-CBA	3.15	121.80	111.91
15	J	1105	BCR	C20-C21-C22	-3.15	122.81	127.31
15	B	842	BCR	C38-C26-C27	3.15	119.67	113.62
13	B	838	CLA	C1-C2-C3	-3.15	120.60	126.04
13	A	808	CLA	CGD-CBD-CAD	-3.15	100.54	110.73
13	A	828	CLA	C4-C3-C5	3.14	120.55	115.27
13	A	813	CLA	C1-O2A-CGA	3.14	124.68	116.44
13	A	845	CLA	C2D-C1D-ND	3.14	112.42	110.10
15	B	843	BCR	C7-C8-C9	-3.13	121.50	126.23
13	A	814	CLA	C2D-C1D-ND	3.13	112.41	110.10
13	A	804	CLA	C2D-C1D-ND	3.13	112.41	110.10
15	F	1302	BCR	C29-C30-C25	3.13	115.30	110.48
13	A	810	CLA	O1D-CGD-CBD	-3.13	118.08	124.48
15	A	847	BCR	C38-C26-C27	3.13	119.62	113.62
15	B	842	BCR	C29-C30-C25	3.12	115.29	110.48
15	I	102	BCR	C24-C23-C22	-3.12	121.52	126.23
13	A	812	CLA	C4-C3-C5	3.12	120.52	115.27
13	B	808	CLA	O1D-CGD-CBD	-3.12	118.11	124.48
13	A	804	CLA	C4-C3-C5	3.12	120.51	115.27
13	B	820	CLA	C1-C2-C3	-3.11	120.66	126.04
13	L	1003	CLA	CAA-CBA-CGA	-3.11	104.15	113.25
13	F	1301	CLA	C2D-C1D-ND	3.11	112.40	110.10
13	B	808	CLA	C4-C3-C5	3.11	120.50	115.27
13	B	803	CLA	C4-C3-C5	3.10	120.49	115.27
13	B	812	CLA	C4-C3-C5	3.10	120.49	115.27
13	A	817	CLA	C1-C2-C3	-3.10	120.68	126.04
13	B	821	CLA	C2D-C1D-ND	3.10	112.39	110.10
13	B	824	CLA	C4-C3-C5	3.10	120.49	115.27
13	B	817	CLA	C4-C3-C5	3.10	120.48	115.27
13	A	824	CLA	O2D-CGD-O1D	-3.10	117.78	123.84
13	B	811	CLA	O1D-CGD-CBD	-3.10	118.15	124.48
13	A	844	CLA	CHD-C1D-ND	-3.09	121.61	124.45
15	B	846	BCR	C38-C26-C25	-3.09	121.06	124.53
13	B	809	CLA	O2D-CGD-O1D	-3.09	117.80	123.84
13	A	834	CLA	C4-C3-C5	3.09	120.46	115.27
13	A	803	CLA	C2D-C1D-ND	3.09	112.38	110.10
13	B	830	CLA	C2D-C1D-ND	3.09	112.38	110.10
13	B	822	CLA	O1D-CGD-CBD	-3.08	118.17	124.48
15	A	851	BCR	C7-C8-C9	-3.08	121.58	126.23
13	B	830	CLA	O2A-CGA-CBA	3.08	121.58	111.91
13	B	814	CLA	C1-O2A-CGA	3.08	124.53	116.44
15	B	847	BCR	C29-C30-C25	3.08	115.22	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	F	1302	BCR	C23-C24-C25	-3.08	118.56	127.20
13	B	826	CLA	C2D-C1D-ND	3.07	112.37	110.10
13	B	836	CLA	C1-O2A-CGA	3.07	124.51	116.44
13	I	101	CLA	C4-C3-C5	3.07	120.44	115.27
13	B	837	CLA	C2D-C1D-ND	3.07	112.37	110.10
13	B	824	CLA	O1D-CGD-CBD	-3.07	118.20	124.48
15	A	850	BCR	C15-C14-C13	-3.06	122.94	127.31
13	A	843	CLA	C1-O2A-CGA	3.06	124.47	116.44
13	B	815	CLA	C2D-C1D-ND	3.06	112.36	110.10
13	A	832	CLA	C4-C3-C5	3.06	120.41	115.27
13	B	836	CLA	O1D-CGD-CBD	-3.05	118.24	124.48
15	A	852	BCR	C7-C8-C9	-3.05	121.62	126.23
13	A	842	CLA	O2D-CGD-CBD	3.05	116.69	111.27
13	A	828	CLA	O1D-CGD-CBD	-3.05	118.24	124.48
13	A	807	CLA	O2A-CGA-CBA	3.05	121.48	111.91
15	L	1006	BCR	C8-C7-C6	-3.05	118.65	127.20
15	B	846	BCR	C12-C13-C14	-3.04	114.27	118.94
15	I	102	BCR	C21-C20-C19	-3.04	113.73	123.22
13	B	833	CLA	O1D-CGD-CBD	-3.04	118.27	124.48
13	B	835	CLA	C2D-C1D-ND	3.03	112.34	110.10
13	A	803	CLA	C4-C3-C5	3.03	120.37	115.27
13	B	839	CLA	C4-C3-C5	3.03	120.37	115.27
13	A	809	CLA	C4-C3-C5	3.03	120.37	115.27
13	B	804	CLA	O2A-CGA-CBA	3.03	121.42	111.91
15	J	1105	BCR	C7-C8-C9	-3.03	121.66	126.23
13	A	801	CLA	O1D-CGD-CBD	-3.03	118.29	124.48
13	B	803	CLA	C2D-C1D-ND	3.03	112.33	110.10
13	B	827	CLA	C4-C3-C5	3.03	120.36	115.27
13	B	808	CLA	C2D-C1D-ND	3.02	112.33	110.10
15	I	102	BCR	C12-C13-C14	-3.02	114.30	118.94
13	A	811	CLA	C4-C3-C5	3.02	120.36	115.27
15	B	844	BCR	C24-C23-C22	-3.02	121.67	126.23
13	A	837	CLA	C2A-C1A-CHA	3.02	129.14	123.86
13	B	808	CLA	O2D-CGD-O1D	-3.02	117.94	123.84
13	A	801	CLA	O2D-CGD-O1D	-3.02	117.94	123.84
13	L	1004	CLA	C4-C3-C5	3.02	120.34	115.27
15	B	843	BCR	C15-C14-C13	-3.02	123.01	127.31
15	L	1005	BCR	C20-C21-C22	-3.01	123.01	127.31
13	A	824	CLA	C4-C3-C5	3.01	120.34	115.27
13	B	812	CLA	C4D-C3D-CAD	-3.01	104.55	108.10
13	A	811	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
13	L	1004	CLA	O2A-CGA-CBA	3.01	121.36	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	855	CLA	O1D-CGD-CBD	-3.01	118.32	124.48
13	J	1102	CLA	O1D-CGD-CBD	-3.01	118.33	124.48
13	B	834	CLA	O1D-CGD-CBD	-3.01	118.33	124.48
13	B	829	CLA	C2D-C1D-ND	3.00	112.32	110.10
13	B	813	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
13	A	816	CLA	O2A-CGA-CBA	3.00	121.33	111.91
13	B	819	CLA	O1D-CGD-CBD	-3.00	118.34	124.48
13	M	1202	CLA	O1D-CGD-CBD	-3.00	118.35	124.48
13	B	832	CLA	O1D-CGD-CBD	-3.00	118.35	124.48
13	A	809	CLA	C1-C2-C3	-3.00	120.86	126.04
15	B	845	BCR	C8-C7-C6	-2.99	118.80	127.20
13	B	822	CLA	O2D-CGD-O1D	-2.99	117.99	123.84
13	B	835	CLA	O2A-CGA-CBA	2.99	121.29	111.91
13	A	827	CLA	C4-C3-C5	2.98	120.29	115.27
13	A	838	CLA	C2D-C1D-ND	2.98	112.30	110.10
13	B	831	CLA	C1-C2-C3	-2.98	120.88	126.04
13	B	815	CLA	C1-O2A-CGA	2.98	124.27	116.44
13	A	829	CLA	C4-C3-C5	2.98	120.28	115.27
15	B	847	BCR	C16-C15-C14	-2.97	117.38	123.47
13	B	806	CLA	CAA-CBA-CGA	-2.97	104.57	113.25
13	B	826	CLA	C1-O2A-CGA	2.97	124.24	116.44
13	A	820	CLA	C2D-C1D-ND	2.97	112.29	110.10
13	A	835	CLA	C4-C3-C5	2.97	120.27	115.27
13	B	814	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
13	L	1002	CLA	O1D-CGD-CBD	-2.97	118.41	124.48
15	J	1104	BCR	C20-C21-C22	-2.97	123.08	127.31
13	B	806	CLA	C4-C3-C5	2.97	120.26	115.27
13	B	802	CLA	O2A-CGA-CBA	2.96	121.21	111.91
13	A	838	CLA	C4-C3-C5	2.96	120.25	115.27
13	A	813	CLA	O1D-CGD-CBD	-2.96	118.43	124.48
13	J	1101	CLA	O2A-CGA-CBA	2.96	121.19	111.91
13	A	812	CLA	C2D-C1D-ND	2.96	112.28	110.10
13	B	819	CLA	C2D-C1D-ND	2.96	112.28	110.10
13	A	833	CLA	C2D-C1D-ND	2.96	112.28	110.10
13	A	834	CLA	C2D-C1D-ND	2.96	112.28	110.10
13	B	808	CLA	C4D-C3D-CAD	-2.95	104.61	108.10
13	M	1202	CLA	C2D-C1D-ND	2.95	112.28	110.10
13	A	816	CLA	C2D-C1D-ND	2.95	112.28	110.10
13	B	816	CLA	C2D-C1D-ND	2.95	112.28	110.10
15	B	847	BCR	C7-C8-C9	-2.94	121.79	126.23
15	B	849	BCR	C11-C12-C13	-2.94	118.15	126.42
13	A	815	CLA	CHD-C1D-ND	-2.94	121.75	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	L	1004	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
15	B	847	BCR	C10-C11-C12	-2.94	114.04	123.22
13	A	823	CLA	C2D-C1D-ND	2.94	112.27	110.10
13	B	814	CLA	O1D-CGD-CBD	-2.93	118.48	124.48
13	A	806	CLA	C4-C3-C5	2.93	120.20	115.27
13	A	824	CLA	C1-C2-C3	-2.93	120.98	126.04
13	L	1002	CLA	C1-C2-C3	-2.93	120.98	126.04
18	B	848	LMG	O8-C28-C29	2.93	121.10	111.91
13	A	839	CLA	C2D-C1D-ND	2.93	112.26	110.10
13	A	813	CLA	C4-C3-C5	2.93	120.19	115.27
15	A	851	BCR	C29-C30-C25	2.93	114.99	110.48
15	B	842	BCR	C33-C5-C4	2.92	119.23	113.62
15	A	847	BCR	C7-C8-C9	-2.92	121.82	126.23
13	A	825	CLA	C2D-C1D-ND	2.92	112.26	110.10
13	A	837	CLA	O1D-CGD-CBD	-2.92	118.51	124.48
13	B	830	CLA	C4-C3-C5	2.92	120.18	115.27
13	A	845	CLA	C1-C2-C3	-2.92	121.00	126.04
13	L	1002	CLA	C2D-C1D-ND	2.92	112.25	110.10
13	B	820	CLA	C2D-C1D-ND	2.92	112.25	110.10
13	A	838	CLA	O1D-CGD-CBD	-2.92	118.52	124.48
13	A	810	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
15	A	849	BCR	C8-C7-C6	-2.91	119.02	127.20
15	B	844	BCR	C23-C24-C25	-2.91	119.03	127.20
13	B	831	CLA	C4D-C3D-CAD	-2.91	104.67	108.10
15	L	1006	BCR	C10-C11-C12	-2.91	114.15	123.22
13	A	827	CLA	O2A-CGA-CBA	2.90	121.02	111.91
13	B	827	CLA	O1D-CGD-CBD	-2.90	118.54	124.48
13	B	807	CLA	C4-C3-C5	2.90	120.15	115.27
13	B	802	CLA	C4-C3-C5	2.90	120.15	115.27
13	B	815	CLA	C4-C3-C5	2.90	120.15	115.27
15	A	851	BCR	C15-C16-C17	-2.90	117.54	123.47
13	A	807	CLA	C1-C2-C3	-2.90	121.03	126.04
15	B	841	BCR	C7-C8-C9	-2.90	121.86	126.23
13	A	824	CLA	CHD-C1D-ND	-2.90	121.79	124.45
13	B	812	CLA	CAA-CBA-CGA	-2.90	104.79	113.25
13	L	1002	CLA	CHD-C1D-ND	-2.89	121.80	124.45
13	B	801	CLA	C4-C3-C5	2.89	120.13	115.27
15	B	841	BCR	C38-C26-C25	-2.89	121.29	124.53
13	B	818	CLA	O2A-CGA-CBA	2.88	120.96	111.91
13	A	807	CLA	CGD-CBD-CAD	-2.88	101.39	110.73
13	A	826	CLA	C2D-C1D-ND	2.88	112.23	110.10
15	A	847	BCR	C38-C26-C25	-2.88	121.29	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	J	1102	CLA	C2D-C1D-ND	2.88	112.23	110.10
13	B	822	CLA	C4-C3-C5	2.88	120.12	115.27
13	A	818	CLA	C2D-C1D-ND	2.88	112.23	110.10
13	L	1002	CLA	C4-C3-C5	2.88	120.12	115.27
13	A	842	CLA	C2D-C1D-ND	2.88	112.23	110.10
13	B	809	CLA	C4D-C3D-CAD	-2.88	104.71	108.10
13	A	808	CLA	C1-C2-C3	-2.87	121.08	126.04
15	I	102	BCR	C20-C21-C22	-2.87	123.21	127.31
15	B	843	BCR	C33-C5-C4	2.87	119.13	113.62
13	A	830	CLA	C4D-C3D-CAD	-2.87	104.71	108.10
15	B	850	BCR	C29-C30-C25	2.87	114.90	110.48
13	A	845	CLA	CHD-C1D-ND	-2.87	121.82	124.45
13	B	838	CLA	C2D-C1D-ND	2.87	112.22	110.10
13	A	845	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
13	A	801	CLA	C4-C3-C5	2.87	120.09	115.27
13	B	835	CLA	C4D-C3D-CAD	-2.87	104.72	108.10
13	A	832	CLA	CHD-C1D-ND	-2.87	121.82	124.45
15	J	1105	BCR	C11-C10-C9	-2.87	123.22	127.31
13	B	819	CLA	C4D-C3D-CAD	-2.86	104.72	108.10
13	B	839	CLA	C2D-C1D-ND	2.86	112.21	110.10
13	A	802	CLA	C4-C3-C5	2.86	120.08	115.27
15	L	1006	BCR	C36-C18-C17	-2.85	118.93	122.92
13	B	805	CLA	C4-C3-C5	2.85	120.07	115.27
13	A	813	CLA	C2D-C1D-ND	2.85	112.20	110.10
13	L	1003	CLA	C2D-C1D-ND	2.85	112.20	110.10
13	A	838	CLA	C1-O2A-CGA	2.85	123.92	116.44
13	A	819	CLA	C5-C3-C2	-2.85	115.35	121.12
15	A	851	BCR	C8-C7-C6	-2.85	119.21	127.20
13	A	801	CLA	C4D-C3D-CAD	-2.84	104.74	108.10
13	A	833	CLA	C4-C3-C5	2.84	120.06	115.27
15	L	1005	BCR	C35-C13-C12	2.84	122.56	118.08
13	J	1102	CLA	C4D-C3D-CAD	-2.84	104.75	108.10
15	J	1104	BCR	C10-C11-C12	-2.84	114.36	123.22
15	B	842	BCR	C7-C8-C9	-2.83	121.95	126.23
15	B	841	BCR	C8-C7-C6	-2.83	119.25	127.20
13	A	832	CLA	C2D-C1D-ND	2.83	112.19	110.10
13	A	821	CLA	O1D-CGD-CBD	-2.83	118.70	124.48
13	A	834	CLA	O1D-CGD-CBD	-2.83	118.70	124.48
13	B	822	CLA	C1-C2-C3	-2.83	121.16	126.04
13	M	1201	CLA	C4-C3-C5	2.83	120.02	115.27
13	A	845	CLA	O1D-CGD-CBD	-2.83	118.70	124.48
13	B	813	CLA	C2D-C1D-ND	2.83	112.19	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	808	CLA	O2A-CGA-CBA	2.82	120.77	111.91
13	A	837	CLA	O2A-CGA-CBA	2.82	120.77	111.91
13	A	805	CLA	O2A-C1-C2	2.82	116.05	108.64
13	J	1101	CLA	C4-C3-C5	2.82	120.02	115.27
15	I	102	BCR	C11-C10-C9	-2.82	123.28	127.31
15	A	849	BCR	C15-C16-C17	-2.82	117.70	123.47
15	B	843	BCR	C8-C7-C6	-2.82	119.29	127.20
13	B	834	CLA	C2D-C1D-ND	2.82	112.18	110.10
15	L	1005	BCR	C8-C7-C6	-2.82	119.29	127.20
13	A	845	CLA	C4-C3-C5	2.82	120.01	115.27
13	B	803	CLA	O1D-CGD-CBD	-2.81	118.73	124.48
13	B	821	CLA	CHD-C1D-ND	-2.81	121.87	124.45
13	A	845	CLA	C1-O2A-CGA	2.81	123.81	116.44
13	B	809	CLA	O1D-CGD-CBD	-2.81	118.74	124.48
13	B	817	CLA	C2D-C1D-ND	2.80	112.17	110.10
13	L	1003	CLA	C4-C3-C5	2.80	119.98	115.27
13	B	805	CLA	CHD-C1D-ND	-2.80	121.88	124.45
13	B	824	CLA	C2D-C1D-ND	2.80	112.17	110.10
13	B	811	CLA	C1-C2-C3	-2.80	121.20	126.04
13	A	812	CLA	O2D-CGD-O1D	-2.79	118.37	123.84
13	A	805	CLA	O2A-CGA-CBA	2.79	120.67	111.91
13	B	828	CLA	C2D-C1D-ND	2.79	112.16	110.10
13	X	102	CLA	C2D-C1D-ND	2.79	112.16	110.10
13	A	829	CLA	CHD-C1D-ND	-2.79	121.89	124.45
13	A	841	CLA	O2A-CGA-CBA	2.79	120.66	111.91
13	J	1101	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
13	B	804	CLA	O1D-CGD-CBD	-2.79	118.78	124.48
13	A	820	CLA	C4-C3-C5	2.79	119.96	115.27
13	B	801	CLA	C4D-C3D-CAD	-2.78	104.81	108.10
13	A	817	CLA	C4-C3-C5	2.78	119.95	115.27
13	A	801	CLA	C1-C2-C3	-2.78	121.23	126.04
15	F	1302	BCR	C34-C9-C10	-2.78	119.03	122.92
13	A	805	CLA	O1D-CGD-CBD	-2.78	118.80	124.48
13	A	816	CLA	CHD-C1D-ND	-2.78	121.90	124.45
15	I	102	BCR	C15-C16-C17	-2.78	117.78	123.47
13	A	821	CLA	C2D-C1D-ND	2.78	112.15	110.10
13	B	810	CLA	C2D-C1D-ND	2.77	112.15	110.10
13	B	839	CLA	O1D-CGD-CBD	-2.77	118.81	124.48
13	L	1003	CLA	CHD-C1D-ND	-2.77	121.91	124.45
15	L	1005	BCR	C21-C20-C19	-2.77	114.58	123.22
13	B	828	CLA	O1D-CGD-CBD	-2.77	118.82	124.48
13	A	855	CLA	C2D-C1D-ND	2.77	112.14	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	819	CLA	C1-O2A-CGA	2.76	123.70	116.44
13	A	822	CLA	CHD-C1D-ND	-2.76	121.92	124.45
15	B	843	BCR	C34-C9-C10	-2.76	119.05	122.92
13	I	101	CLA	C1-O2A-CGA	2.76	123.69	116.44
13	M	1201	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
13	B	824	CLA	O2A-CGA-CBA	2.76	120.57	111.91
13	B	836	CLA	C4-C3-C5	2.76	119.91	115.27
13	A	815	CLA	C2D-C1D-ND	2.76	112.14	110.10
15	M	1203	BCR	C15-C16-C17	-2.76	117.83	123.47
13	J	1102	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
13	A	836	CLA	C2D-C1D-ND	2.75	112.13	110.10
13	A	830	CLA	C1-O2A-CGA	2.75	123.67	116.44
13	A	839	CLA	O2A-CGA-CBA	2.75	120.55	111.91
13	J	1101	CLA	C1-C2-C3	-2.75	121.28	126.04
13	A	821	CLA	O2A-CGA-CBA	2.75	120.54	111.91
13	J	1101	CLA	C2D-C1D-ND	2.75	112.13	110.10
15	I	102	BCR	C29-C30-C25	2.75	114.71	110.48
13	A	814	CLA	CAA-CBA-CGA	-2.74	105.24	112.51
13	B	836	CLA	C2D-C1D-ND	2.74	112.12	110.10
13	J	1101	CLA	O1D-CGD-CBD	-2.74	118.89	124.48
13	L	1003	CLA	C4D-C3D-CAD	-2.74	104.87	108.10
13	A	834	CLA	O2A-CGA-CBA	2.73	120.49	111.91
15	L	1006	BCR	C15-C14-C13	-2.73	123.41	127.31
15	M	1203	BCR	C12-C13-C14	-2.73	114.75	118.94
15	B	846	BCR	C16-C15-C14	-2.73	117.88	123.47
13	B	827	CLA	C2C-C1C-NC	-2.73	107.42	109.97
15	A	851	BCR	C11-C10-C9	-2.73	123.42	127.31
15	B	849	BCR	C8-C7-C6	-2.73	119.55	127.20
13	B	813	CLA	CHD-C1D-ND	-2.72	121.95	124.45
16	A	853	LHG	O8-C23-C24	2.72	120.46	111.91
13	A	855	CLA	CHD-C1D-ND	-2.72	121.95	124.45
15	J	1105	BCR	C10-C11-C12	-2.72	114.73	123.22
15	B	845	BCR	C7-C8-C9	-2.72	122.13	126.23
13	A	806	CLA	C2D-C1D-ND	2.72	112.11	110.10
13	A	835	CLA	C2D-C1D-ND	2.71	112.10	110.10
15	B	845	BCR	C29-C28-C27	2.71	117.43	111.38
13	B	814	CLA	C4D-C3D-CAD	-2.71	104.90	108.10
13	B	824	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
13	A	818	CLA	CAA-CBA-CGA	-2.71	105.34	113.25
13	A	813	CLA	O2D-CGD-O1D	-2.70	118.55	123.84
13	A	802	CLA	O2D-CGD-O1D	-2.70	118.55	123.84
13	A	805	CLA	O2D-CGD-O1D	-2.70	118.55	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	849	BCR	C16-C15-C14	-2.70	117.94	123.47
15	A	849	BCR	C24-C23-C22	-2.70	122.15	126.23
13	A	808	CLA	O1D-CGD-CBD	-2.70	118.96	124.48
13	A	841	CLA	C2D-C1D-ND	2.70	112.09	110.10
13	A	840	CLA	C1-O2A-CGA	2.70	123.52	116.44
13	B	818	CLA	C2D-C1D-ND	2.70	112.09	110.10
13	B	820	CLA	CAA-C2A-C3A	2.70	120.16	112.78
15	A	851	BCR	C10-C11-C12	-2.70	114.80	123.22
14	B	840	PQN	C2M-C2-C3	-2.70	120.00	124.40
13	B	825	CLA	C2D-C1D-ND	2.69	112.09	110.10
15	L	1006	BCR	C37-C22-C21	-2.69	119.15	122.92
13	A	844	CLA	CAD-CBD-CHA	-2.69	102.11	105.14
13	L	1004	CLA	O1D-CGD-CBD	-2.69	118.98	124.48
13	B	803	CLA	O2A-CGA-CBA	2.69	120.34	111.91
15	A	847	BCR	C8-C7-C6	-2.68	119.66	127.20
13	A	826	CLA	C4-C3-C5	2.68	119.78	115.27
15	J	1104	BCR	C11-C10-C9	-2.68	123.48	127.31
15	B	845	BCR	C16-C17-C18	-2.68	123.49	127.31
13	B	821	CLA	O2D-CGD-CBD	2.68	116.03	111.27
13	A	803	CLA	CHD-C1D-ND	-2.68	121.99	124.45
13	A	830	CLA	O1D-CGD-CBD	-2.67	119.01	124.48
13	B	819	CLA	O2D-CGD-O1D	-2.67	118.61	123.84
13	B	816	CLA	O1D-CGD-CBD	-2.67	119.02	124.48
13	B	813	CLA	C4D-C3D-CAD	-2.67	104.95	108.10
13	L	1004	CLA	C2D-C1D-ND	2.67	112.07	110.10
13	A	829	CLA	C2D-C1D-ND	2.67	112.07	110.10
15	M	1203	BCR	C23-C24-C25	-2.67	119.71	127.20
15	A	848	BCR	C10-C11-C12	-2.66	114.91	123.22
13	B	805	CLA	C2D-C1D-ND	2.66	112.06	110.10
13	B	812	CLA	C1-O2A-CGA	2.66	123.42	116.44
15	A	848	BCR	C8-C7-C6	-2.65	119.75	127.20
13	B	811	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
13	A	809	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
15	B	849	BCR	C34-C9-C10	-2.65	119.21	122.92
13	A	810	CLA	C4D-C3D-CAD	-2.65	104.97	108.10
13	A	804	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
15	J	1104	BCR	C15-C16-C17	-2.65	118.04	123.47
13	L	1003	CLA	CAA-C2A-C3A	-2.65	105.52	112.78
13	A	828	CLA	C1-O2A-CGA	2.65	123.39	116.44
13	B	801	CLA	O2A-CGA-CBA	2.64	120.21	111.91
15	B	847	BCR	C23-C24-C25	-2.64	119.80	127.20
13	A	824	CLA	C2D-C1D-ND	2.64	112.05	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	845	CLA	C3C-C4C-NC	-2.63	107.62	110.57
13	B	823	CLA	O1D-CGD-CBD	-2.63	119.10	124.48
13	A	811	CLA	O2A-CGA-CBA	2.63	120.16	111.91
13	B	835	CLA	C4-C3-C5	2.63	119.69	115.27
15	A	849	BCR	C11-C10-C9	-2.62	123.57	127.31
13	A	802	CLA	O2A-CGA-CBA	2.62	120.14	111.91
13	B	816	CLA	CHD-C1D-ND	-2.62	122.05	124.45
13	B	828	CLA	O2D-CGD-O1D	-2.62	118.72	123.84
13	A	831	CLA	C4D-C3D-CAD	-2.62	105.01	108.10
15	A	852	BCR	C11-C10-C9	-2.62	123.58	127.31
15	A	848	BCR	C15-C14-C13	-2.62	123.58	127.31
15	B	843	BCR	C38-C26-C27	2.61	118.64	113.62
15	A	849	BCR	C12-C13-C14	-2.61	114.93	118.94
13	A	817	CLA	C1-O2A-CGA	2.61	123.30	116.44
15	J	1104	BCR	C23-C24-C25	-2.61	119.86	127.20
13	B	831	CLA	C4-C3-C5	2.61	119.67	115.27
15	L	1005	BCR	C10-C11-C12	-2.61	115.07	123.22
13	J	1103	CLA	CHD-C1D-ND	-2.61	122.06	124.45
13	A	826	CLA	O2A-CGA-CBA	2.61	120.10	111.91
13	B	830	CLA	C1-C2-C3	-2.61	121.53	126.04
13	B	814	CLA	C7-C6-C5	-2.61	106.28	113.36
15	J	1104	BCR	C38-C26-C27	2.61	118.62	113.62
13	B	833	CLA	C2D-C1D-ND	2.60	112.02	110.10
13	B	831	CLA	O2A-CGA-CBA	2.60	120.08	111.91
13	A	838	CLA	C11-C10-C8	-2.60	107.52	115.92
13	X	102	CLA	CHD-C1D-ND	-2.60	122.07	124.45
15	B	843	BCR	C39-C30-C25	-2.60	106.09	110.30
13	B	834	CLA	C4D-C3D-CAD	-2.60	105.03	108.10
15	A	852	BCR	C23-C24-C25	-2.60	119.91	127.20
15	M	1203	BCR	C2-C3-C4	2.59	117.17	111.38
15	B	843	BCR	C2-C3-C4	2.59	117.17	111.38
13	F	1301	CLA	C2A-C1A-CHA	2.59	128.39	123.86
15	B	845	BCR	C23-C24-C25	-2.59	119.92	127.20
13	A	829	CLA	O2D-CGD-O1D	-2.59	118.77	123.84
13	A	836	CLA	O1D-CGD-CBD	-2.59	119.19	124.48
15	A	851	BCR	C23-C24-C25	-2.59	119.94	127.20
15	A	848	BCR	C23-C24-C25	-2.59	119.94	127.20
13	B	816	CLA	C7-C6-C5	-2.58	106.34	113.36
15	B	843	BCR	C36-C18-C17	-2.58	119.31	122.92
15	J	1104	BCR	C29-C28-C27	2.58	117.14	111.38
13	A	833	CLA	C4D-C3D-CAD	-2.58	105.06	108.10
13	B	822	CLA	CMB-C2B-C1B	-2.58	124.50	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	J	1103	CLA	C2D-C1D-ND	2.58	112.00	110.10
13	A	827	CLA	C4D-C3D-CAD	-2.57	105.06	108.10
15	A	851	BCR	C36-C18-C17	-2.57	119.32	122.92
15	B	841	BCR	C27-C26-C25	-2.57	119.00	122.73
13	A	822	CLA	O2A-CGA-CBA	2.57	119.97	111.91
15	B	841	BCR	C12-C13-C14	-2.57	115.00	118.94
13	A	833	CLA	O2A-CGA-CBA	2.56	119.94	111.91
13	B	820	CLA	C1-O2A-CGA	2.56	123.16	116.44
13	B	811	CLA	C2D-C1D-ND	2.56	111.99	110.10
13	A	816	CLA	C4D-C3D-CAD	-2.55	105.09	108.10
13	A	827	CLA	O1D-CGD-CBD	-2.55	119.27	124.48
13	B	834	CLA	O2D-CGD-O1D	-2.55	118.85	123.84
13	B	812	CLA	CMD-C2D-C1D	2.55	129.20	124.71
13	B	803	CLA	C1-C2-C3	-2.54	121.64	126.04
13	B	838	CLA	O1D-CGD-CBD	-2.54	119.29	124.48
13	B	807	CLA	O2D-CGD-O1D	-2.54	118.87	123.84
13	A	831	CLA	O2A-CGA-CBA	2.54	119.88	111.91
15	A	852	BCR	C10-C11-C12	-2.54	115.30	123.22
13	B	830	CLA	CAA-CBA-CGA	-2.54	105.84	113.25
13	A	812	CLA	CHD-C1D-ND	-2.54	122.12	124.45
13	A	809	CLA	C3A-C2A-C1A	2.54	105.14	101.34
15	B	850	BCR	C35-C13-C12	2.53	122.07	118.08
18	B	848	LMG	C7-O1-C1	2.53	118.69	113.74
13	A	825	CLA	C4-C3-C5	2.53	119.53	115.27
13	A	819	CLA	CHD-C1D-ND	-2.53	122.13	124.45
15	A	848	BCR	C12-C13-C14	-2.53	115.05	118.94
13	M	1201	CLA	CMD-C2D-C1D	2.53	129.18	124.71
15	A	848	BCR	C11-C10-C9	-2.53	123.70	127.31
13	B	810	CLA	CHD-C1D-ND	-2.53	122.13	124.45
13	B	806	CLA	O1D-CGD-CBD	-2.53	119.31	124.48
13	L	1004	CLA	C1-C2-C3	-2.53	121.67	126.04
13	A	827	CLA	C1-C2-C3	-2.53	121.67	126.04
13	A	838	CLA	O2D-CGD-O1D	-2.53	118.90	123.84
13	B	811	CLA	C4D-C3D-CAD	-2.52	105.12	108.10
13	B	827	CLA	C1-O2A-CGA	2.52	123.06	116.44
13	A	831	CLA	C5-C3-C4	2.52	120.17	114.60
13	A	836	CLA	O2D-CGD-O1D	-2.52	118.91	123.84
15	B	849	BCR	C24-C23-C22	-2.52	122.43	126.23
13	B	835	CLA	CHD-C1D-ND	-2.52	122.14	124.45
13	A	841	CLA	CHD-C1D-ND	-2.51	122.14	124.45
14	B	840	PQN	C2M-C2-C1	2.51	120.44	116.27
15	B	844	BCR	C16-C17-C18	-2.51	123.72	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	A	847	BCR	C27-C26-C25	-2.51	119.09	122.73
15	A	850	BCR	C16-C15-C14	-2.51	118.33	123.47
15	B	847	BCR	C31-C1-C6	-2.51	106.23	110.30
13	A	808	CLA	C4-C3-C5	2.51	119.49	115.27
13	A	829	CLA	C4D-C3D-CAD	-2.51	105.14	108.10
13	A	855	CLA	C4D-C3D-CAD	-2.51	105.14	108.10
15	J	1105	BCR	C23-C24-C25	-2.50	120.17	127.20
13	B	823	CLA	CAA-C2A-C1A	2.50	120.17	111.97
15	B	850	BCR	C33-C5-C4	2.50	118.42	113.62
13	A	837	CLA	CAA-C2A-C3A	-2.50	105.93	112.78
15	A	852	BCR	C24-C23-C22	-2.50	122.46	126.23
13	A	803	CLA	O2A-CGA-CBA	2.50	119.74	111.91
13	X	102	CLA	C4D-C3D-CAD	-2.50	105.15	108.10
13	A	837	CLA	CHD-C1D-ND	-2.50	122.16	124.45
13	B	832	CLA	CHD-C1D-ND	-2.50	122.16	124.45
13	B	822	CLA	C2D-C1D-ND	2.49	111.94	110.10
13	B	839	CLA	CHD-C1D-ND	-2.49	122.16	124.45
13	A	844	CLA	C3C-C4C-NC	-2.49	107.78	110.57
13	A	837	CLA	CAA-C2A-C1A	2.49	120.14	111.97
13	A	804	CLA	C1-O2A-CGA	2.49	122.98	116.44
13	A	821	CLA	C4-C3-C5	2.49	119.46	115.27
13	A	837	CLA	C4D-C3D-CAD	-2.49	105.16	108.10
15	J	1104	BCR	C24-C23-C22	-2.49	122.47	126.23
15	L	1006	BCR	C16-C15-C14	-2.48	118.39	123.47
13	A	820	CLA	CHD-C1D-ND	-2.48	122.17	124.45
13	A	802	CLA	CHD-C1D-ND	-2.48	122.17	124.45
13	B	838	CLA	C4D-C3D-CAD	-2.48	105.17	108.10
13	A	824	CLA	C3C-C4C-NC	-2.48	107.79	110.57
15	A	848	BCR	C16-C15-C14	-2.48	118.40	123.47
13	A	855	CLA	O2D-CGD-O1D	-2.48	119.00	123.84
13	A	840	CLA	CAA-CBA-CGA	-2.47	106.02	113.25
13	M	1201	CLA	C1-C2-C3	-2.47	121.77	126.04
13	B	823	CLA	C2D-C1D-ND	2.47	111.92	110.10
13	A	813	CLA	C4D-C3D-CAD	-2.47	105.18	108.10
13	A	828	CLA	C4D-C3D-CAD	-2.47	105.19	108.10
13	A	838	CLA	OBD-CAD-C3D	-2.46	122.59	128.52
15	M	1203	BCR	C27-C26-C25	-2.46	119.15	122.73
15	B	843	BCR	C21-C20-C19	-2.46	115.53	123.22
13	B	809	CLA	CAA-CBA-CGA	-2.46	105.97	112.51
13	B	801	CLA	O2D-CGD-O1D	-2.46	119.02	123.84
13	B	826	CLA	CHD-C1D-ND	-2.46	122.19	124.45
15	B	849	BCR	C29-C30-C25	2.46	114.27	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	L	1003	CLA	C3C-C4C-NC	-2.46	107.81	110.57
13	A	842	CLA	C1-O2A-CGA	2.46	122.89	116.44
13	M	1201	CLA	O2A-CGA-CBA	2.46	119.62	111.91
15	A	848	BCR	C36-C18-C17	-2.46	119.48	122.92
13	A	814	CLA	O1D-CGD-CBD	-2.46	119.45	124.48
13	A	825	CLA	C1-O2A-CGA	2.46	122.89	116.44
13	A	835	CLA	CHD-C1D-ND	-2.46	122.20	124.45
13	A	820	CLA	O2D-CGD-O1D	-2.46	119.04	123.84
13	J	1101	CLA	CBA-CAA-C2A	2.46	121.11	113.86
13	A	807	CLA	CMD-C2D-C1D	2.45	129.03	124.71
13	A	843	CLA	CAA-CBA-CGA	-2.45	106.09	113.25
13	M	1201	CLA	CHD-C1D-ND	-2.45	122.20	124.45
13	L	1002	CLA	O2D-CGD-O1D	-2.45	119.05	123.84
15	B	850	BCR	C10-C11-C12	-2.45	115.57	123.22
15	B	846	BCR	C27-C26-C25	-2.45	119.18	122.73
13	B	836	CLA	O2D-CGD-O1D	-2.45	119.06	123.84
13	B	803	CLA	CHD-C1D-ND	-2.45	122.21	124.45
15	A	847	BCR	C15-C14-C13	-2.44	123.82	127.31
14	B	840	PQN	C14-C13-C15	2.44	119.38	115.27
13	A	827	CLA	C2C-C1C-NC	-2.44	107.69	109.97
13	J	1102	CLA	CHD-C1D-ND	-2.44	122.21	124.45
13	B	814	CLA	CAA-CBA-CGA	-2.43	106.14	113.25
13	M	1202	CLA	O2D-CGD-O1D	-2.43	119.08	123.84
13	B	834	CLA	CHD-C1D-ND	-2.43	122.22	124.45
15	B	842	BCR	C2-C3-C4	2.43	116.81	111.38
15	A	850	BCR	C4-C5-C6	-2.43	119.20	122.73
15	L	1006	BCR	C33-C5-C4	2.43	118.28	113.62
15	A	850	BCR	C37-C22-C21	-2.43	119.52	122.92
13	B	835	CLA	O1D-CGD-CBD	-2.43	119.52	124.48
13	B	817	CLA	O2A-CGA-CBA	2.43	119.52	111.91
15	B	843	BCR	C16-C15-C14	-2.42	118.51	123.47
13	B	835	CLA	O2D-CGD-O1D	-2.42	119.10	123.84
13	B	828	CLA	C4D-C3D-CAD	-2.42	105.24	108.10
13	A	843	CLA	C4D-C3D-CAD	-2.42	105.24	108.10
13	B	835	CLA	C2A-C1A-CHA	2.42	128.09	123.86
15	B	843	BCR	C12-C13-C14	-2.42	115.22	118.94
13	B	839	CLA	CAA-CBA-CGA	-2.42	106.18	113.25
15	B	841	BCR	C16-C15-C14	-2.42	118.52	123.47
13	A	825	CLA	CHD-C1D-ND	-2.42	122.23	124.45
13	A	831	CLA	CHD-C1D-ND	-2.42	122.23	124.45
15	A	849	BCR	C37-C22-C21	-2.41	119.54	122.92
15	M	1203	BCR	C7-C8-C9	-2.41	122.59	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	822	CLA	O2A-CGA-CBA	2.41	119.47	111.91
13	A	809	CLA	C4D-CHA-C1A	-2.41	118.32	121.25
15	I	102	BCR	C16-C15-C14	-2.41	118.54	123.47
15	B	844	BCR	C35-C13-C12	2.41	119.92	114.60
13	B	824	CLA	C4D-C3D-CAD	-2.41	105.26	108.10
13	A	819	CLA	O2A-CGA-CBA	2.41	119.46	111.91
15	I	102	BCR	C2-C3-C4	2.41	116.75	111.38
13	B	837	CLA	O2A-CGA-CBA	2.40	119.45	111.91
13	A	807	CLA	C4D-C3D-CAD	-2.40	105.26	108.10
13	B	838	CLA	O2D-CGD-O1D	-2.40	119.14	123.84
13	I	101	CLA	CHD-C1D-ND	-2.40	122.25	124.45
13	A	845	CLA	C4D-C3D-CAD	-2.40	105.27	108.10
15	B	850	BCR	C15-C16-C17	-2.40	118.56	123.47
13	A	812	CLA	C1-O2A-CGA	2.40	122.74	116.44
13	A	830	CLA	CHD-C1D-ND	-2.40	122.25	124.45
13	A	810	CLA	CHD-C1D-ND	-2.40	122.25	124.45
15	B	847	BCR	C37-C22-C21	-2.40	119.57	122.92
13	B	805	CLA	O2A-CGA-CBA	2.39	119.42	111.91
13	A	819	CLA	O2D-CGD-O1D	-2.39	119.16	123.84
13	B	810	CLA	CED-O2D-CGD	2.39	121.35	115.94
13	A	826	CLA	O2D-CGD-O1D	-2.39	119.16	123.84
13	B	828	CLA	CHD-C1D-ND	-2.39	122.26	124.45
13	A	840	CLA	CMD-C2D-C1D	2.39	128.93	124.71
13	B	812	CLA	C2D-C1D-ND	2.39	111.86	110.10
13	A	817	CLA	CED-O2D-CGD	2.39	121.34	115.94
13	A	841	CLA	C1-C2-C3	-2.39	121.91	126.04
13	B	824	CLA	CHD-C1D-ND	-2.39	122.26	124.45
13	A	840	CLA	C4-C3-C5	2.39	119.29	115.27
13	A	838	CLA	CAA-CBA-CGA	-2.39	106.28	113.25
13	A	839	CLA	CAA-CBA-CGA	-2.39	106.28	113.25
13	A	815	CLA	C3C-C4C-NC	-2.38	107.90	110.57
13	B	823	CLA	CMD-C2D-C1D	2.38	128.91	124.71
13	A	811	CLA	C4D-C3D-CAD	-2.38	105.29	108.10
13	B	816	CLA	C4D-C3D-CAD	-2.38	105.29	108.10
13	A	842	CLA	CED-O2D-CGD	2.38	121.32	115.94
13	A	803	CLA	C11-C12-C13	-2.38	108.23	115.92
15	B	845	BCR	C40-C30-C25	-2.38	106.44	110.30
13	J	1101	CLA	CAA-CBA-CGA	2.37	120.19	113.25
13	B	818	CLA	C4D-C3D-CAD	-2.37	105.30	108.10
13	A	829	CLA	O2A-C1-C2	-2.37	102.41	108.64
13	A	835	CLA	O2A-CGA-CBA	2.37	119.34	111.91
13	B	823	CLA	O2A-CGA-CBA	2.37	121.59	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	813	CLA	CHD-C1D-ND	-2.37	122.28	124.45
15	J	1105	BCR	C15-C16-C17	-2.37	118.62	123.47
13	B	810	CLA	C3C-C4C-NC	-2.37	107.92	110.57
13	B	818	CLA	CHD-C1D-ND	-2.37	122.28	124.45
13	B	807	CLA	C11-C10-C8	-2.36	108.28	115.92
13	M	1201	CLA	CAA-CBA-CGA	-2.36	106.35	113.25
13	A	832	CLA	CMD-C2D-C1D	2.36	128.88	124.71
15	B	846	BCR	C23-C24-C25	-2.36	120.58	127.20
13	A	821	CLA	CHD-C1D-ND	-2.36	122.29	124.45
13	B	816	CLA	O2A-CGA-CBA	2.35	119.30	111.91
14	A	846	PQN	C2M-C2-C3	-2.35	120.56	124.40
13	A	816	CLA	C3C-C4C-NC	-2.35	107.93	110.57
13	B	839	CLA	C4D-C3D-CAD	-2.35	105.33	108.10
13	B	820	CLA	CAA-CBA-CGA	-2.35	106.39	113.25
13	A	806	CLA	CHD-C1D-ND	-2.35	122.30	124.45
13	A	826	CLA	C1-C2-C3	-2.35	121.98	126.04
13	B	822	CLA	C4D-C3D-CAD	-2.35	105.33	108.10
15	A	852	BCR	C1-C6-C7	2.35	122.41	115.78
13	B	829	CLA	CHD-C1D-ND	-2.34	122.30	124.45
13	M	1202	CLA	C4D-C3D-CAD	-2.34	105.34	108.10
13	A	802	CLA	C2D-C1D-ND	2.33	111.82	110.10
13	B	811	CLA	CHD-C1D-ND	-2.33	122.31	124.45
13	A	820	CLA	C3C-C4C-NC	-2.33	107.95	110.57
15	J	1104	BCR	C37-C22-C21	-2.33	119.66	122.92
13	A	824	CLA	CGD-CBD-CAD	2.33	118.28	110.73
13	B	837	CLA	O2D-CGD-O1D	-2.33	119.29	123.84
13	A	801	CLA	CHD-C1D-ND	-2.33	122.32	124.45
13	F	1301	CLA	OBD-CAD-C3D	-2.32	122.93	128.52
15	B	850	BCR	C34-C9-C10	-2.32	119.67	122.92
15	B	844	BCR	C21-C20-C19	-2.32	115.97	123.22
15	B	842	BCR	C34-C9-C10	-2.32	119.67	122.92
13	A	801	CLA	O2A-CGA-CBA	2.32	119.19	111.91
13	A	823	CLA	CAA-CBA-CGA	-2.32	106.47	113.25
13	B	832	CLA	CAA-CBA-CGA	-2.32	106.35	112.51
15	B	842	BCR	C37-C22-C21	-2.32	119.68	122.92
15	B	850	BCR	C36-C18-C17	-2.32	119.68	122.92
13	A	825	CLA	O2A-CGA-CBA	2.32	119.18	111.91
15	A	847	BCR	C12-C13-C14	-2.32	115.39	118.94
13	A	844	CLA	C2D-C1D-ND	2.31	111.81	110.10
13	B	827	CLA	C7-C6-C5	-2.31	107.08	113.36
13	A	842	CLA	C1-C2-C3	-2.31	122.04	126.04
13	A	835	CLA	C3C-C4C-NC	-2.31	107.98	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	835	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
15	B	846	BCR	C8-C9-C10	-2.31	115.40	118.94
13	B	836	CLA	CHD-C1D-ND	-2.31	122.33	124.45
15	B	841	BCR	C15-C16-C17	-2.30	118.75	123.47
13	A	829	CLA	CMD-C2D-C1D	2.30	128.77	124.71
13	A	838	CLA	CHD-C1D-ND	-2.30	122.34	124.45
13	A	816	CLA	CED-O2D-CGD	2.30	121.15	115.94
13	A	819	CLA	C7-C6-C5	-2.30	107.11	113.36
13	B	803	CLA	O2D-CGD-O1D	-2.30	119.34	123.84
13	A	839	CLA	O1D-CGD-CBD	-2.30	119.78	124.48
15	B	849	BCR	C4-C5-C6	-2.30	119.39	122.73
13	B	832	CLA	C4D-C3D-CAD	-2.30	105.39	108.10
15	L	1005	BCR	C15-C14-C13	-2.30	124.03	127.31
15	A	847	BCR	C34-C9-C10	-2.30	119.70	122.92
13	A	833	CLA	CHD-C1D-ND	-2.30	122.34	124.45
13	B	838	CLA	CBA-CAA-C2A	2.29	120.63	113.86
15	B	846	BCR	C15-C16-C17	-2.29	118.78	123.47
13	A	817	CLA	C4D-C3D-CAD	-2.29	105.39	108.10
13	A	820	CLA	C4D-C3D-CAD	-2.29	105.40	108.10
13	A	819	CLA	C3C-C4C-NC	-2.29	108.00	110.57
13	A	822	CLA	C4D-C3D-CAD	-2.29	105.40	108.10
13	A	830	CLA	O2D-CGD-O1D	-2.29	119.37	123.84
13	A	840	CLA	C1-C2-C3	-2.29	122.09	126.04
15	B	841	BCR	C23-C24-C25	-2.29	120.78	127.20
13	B	827	CLA	CHD-C1D-ND	-2.29	122.35	124.45
15	B	842	BCR	C16-C17-C18	-2.28	124.05	127.31
15	B	846	BCR	C37-C22-C21	-2.28	119.72	122.92
13	B	839	CLA	O2D-CGD-O1D	-2.28	119.38	123.84
15	L	1006	BCR	C12-C13-C14	-2.28	115.44	118.94
13	A	833	CLA	CED-O2D-CGD	2.28	121.10	115.94
13	B	804	CLA	O2D-CGD-O1D	-2.28	119.38	123.84
13	B	818	CLA	C3C-C4C-NC	-2.28	108.01	110.57
13	B	819	CLA	CHD-C1D-ND	-2.28	122.36	124.45
15	A	848	BCR	C27-C26-C25	-2.27	119.43	122.73
13	A	837	CLA	CMD-C2D-C1D	2.27	128.72	124.71
13	B	837	CLA	CHD-C1D-ND	-2.27	122.37	124.45
15	B	846	BCR	C39-C30-C25	-2.27	106.62	110.30
13	B	839	CLA	C1-O2A-CGA	2.27	122.39	116.44
13	L	1004	CLA	CHD-C1D-ND	-2.27	122.37	124.45
13	A	802	CLA	C3C-C4C-NC	-2.26	108.03	110.57
15	B	846	BCR	C36-C18-C17	-2.26	119.75	122.92
13	B	834	CLA	C3C-C4C-NC	-2.26	108.03	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	825	CLA	O2A-C1-C2	-2.26	102.69	108.64
15	B	843	BCR	C15-C16-C17	-2.26	118.84	123.47
13	L	1003	CLA	C1-O2A-CGA	2.26	122.37	116.44
13	A	813	CLA	C11-C10-C8	-2.26	108.61	115.92
15	B	843	BCR	C35-C13-C12	2.26	121.64	118.08
15	B	847	BCR	C36-C18-C17	-2.26	119.76	122.92
15	B	849	BCR	C36-C18-C17	-2.26	119.76	122.92
15	A	852	BCR	C8-C7-C6	-2.26	120.86	127.20
15	J	1104	BCR	C39-C30-C25	-2.26	106.64	110.30
13	B	808	CLA	C7-C6-C5	-2.26	107.23	113.36
15	A	852	BCR	C27-C26-C25	-2.26	119.45	122.73
13	B	805	CLA	C3C-C4C-NC	-2.26	108.04	110.57
13	A	809	CLA	O1D-CGD-CBD	-2.26	119.87	124.48
13	L	1003	CLA	O2D-CGD-O1D	-2.26	119.43	123.84
13	L	1004	CLA	C3C-C4C-NC	-2.25	108.04	110.57
13	B	801	CLA	CHD-C1D-ND	-2.25	122.38	124.45
15	A	849	BCR	C27-C26-C25	-2.25	119.47	122.73
13	I	101	CLA	CMD-C2D-C1D	2.25	128.68	124.71
13	B	837	CLA	C4D-C3D-CAD	-2.25	105.45	108.10
15	B	849	BCR	C21-C20-C19	-2.25	116.20	123.22
13	A	829	CLA	C3C-C4C-NC	-2.25	108.05	110.57
13	A	815	CLA	C2C-C1C-NC	-2.25	107.87	109.97
15	B	843	BCR	C11-C10-C9	-2.25	124.11	127.31
13	B	834	CLA	CMD-C2D-C1D	2.24	128.67	124.71
15	L	1005	BCR	C36-C18-C19	2.24	121.61	118.08
15	A	847	BCR	C36-C18-C17	-2.24	119.78	122.92
13	A	814	CLA	CHD-C1D-ND	-2.24	122.40	124.45
14	A	846	PQN	C14-C13-C15	2.24	119.04	115.27
13	B	807	CLA	C4D-CHA-C1A	-2.24	118.53	121.25
15	A	847	BCR	C16-C15-C14	-2.24	118.89	123.47
15	B	850	BCR	C16-C15-C14	-2.24	118.89	123.47
13	B	813	CLA	C3C-C4C-NC	-2.23	108.06	110.57
15	J	1105	BCR	C37-C22-C21	-2.23	119.79	122.92
13	A	834	CLA	CHD-C1D-ND	-2.23	122.40	124.45
15	A	849	BCR	C21-C20-C19	-2.23	116.25	123.22
13	A	806	CLA	C11-C10-C8	-2.23	108.71	115.92
15	J	1105	BCR	C27-C26-C25	-2.23	119.49	122.73
13	J	1102	CLA	C3C-C4C-NC	-2.23	108.07	110.57
13	B	827	CLA	C4D-C3D-CAD	-2.23	105.47	108.10
13	A	843	CLA	C6-C7-C8	-2.23	108.72	115.92
13	B	821	CLA	CMD-C2D-C1D	2.23	128.64	124.71
13	A	826	CLA	C11-C10-C8	-2.23	108.72	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	825	CLA	CAA-CBA-CGA	-2.23	106.74	113.25
15	B	850	BCR	C32-C1-C6	-2.23	106.69	110.30
13	B	839	CLA	O2A-CGA-CBA	2.22	118.89	111.91
13	B	835	CLA	C1-C2-C3	-2.22	122.20	126.04
13	A	809	CLA	CHD-C1D-ND	-2.22	122.41	124.45
13	A	824	CLA	C11-C10-C8	-2.22	108.74	115.92
13	B	821	CLA	C4D-C3D-CAD	-2.22	105.48	108.10
13	A	821	CLA	C16-C15-C13	-2.22	108.75	115.92
13	A	818	CLA	CAA-C2A-C3A	-2.22	106.71	112.78
13	F	1301	CLA	O1D-CGD-CBD	-2.22	119.95	124.48
15	B	841	BCR	C37-C22-C21	-2.22	119.82	122.92
13	A	809	CLA	CGD-CBD-CAD	-2.21	103.56	110.73
13	A	819	CLA	O2A-C1-C2	-2.21	102.82	108.64
15	B	841	BCR	C4-C5-C6	-2.21	119.52	122.73
13	B	814	CLA	C4-C3-C5	2.21	118.99	115.27
13	B	817	CLA	C1-C2-C3	-2.21	122.22	126.04
13	A	824	CLA	O2A-CGA-CBA	2.21	118.84	111.91
13	B	830	CLA	CHD-C1D-ND	-2.21	122.42	124.45
15	B	843	BCR	C29-C28-C27	2.21	116.31	111.38
15	A	849	BCR	C35-C13-C12	2.21	121.56	118.08
13	A	817	CLA	CHD-C1D-ND	-2.21	122.42	124.45
13	B	836	CLA	CMD-C2D-C1D	2.21	128.61	124.71
13	A	829	CLA	C7-C6-C5	-2.21	107.36	113.36
13	A	831	CLA	O1D-CGD-CBD	-2.21	119.97	124.48
15	A	847	BCR	C37-C22-C21	-2.21	119.83	122.92
15	B	842	BCR	C31-C1-C6	-2.21	106.72	110.30
15	B	845	BCR	C4-C5-C6	-2.20	119.53	122.73
15	A	848	BCR	C4-C5-C6	-2.20	119.53	122.73
15	F	1302	BCR	C21-C20-C19	-2.20	116.34	123.22
13	A	807	CLA	C4D-CHA-C1A	-2.20	118.57	121.25
13	J	1101	CLA	CHD-C1D-ND	-2.20	122.43	124.45
15	J	1104	BCR	C4-C5-C6	-2.20	119.54	122.73
15	F	1302	BCR	C27-C26-C25	-2.20	119.54	122.73
13	B	809	CLA	CHD-C1D-ND	-2.20	122.44	124.45
15	B	847	BCR	C21-C20-C19	-2.19	116.37	123.22
13	A	811	CLA	C1-C2-C3	-2.19	122.25	126.04
15	L	1005	BCR	C30-C25-C24	2.19	121.98	115.78
13	X	102	CLA	C3C-C4C-NC	-2.19	108.11	110.57
15	A	850	BCR	C35-C13-C12	2.19	121.53	118.08
13	A	803	CLA	C3C-C4C-NC	-2.19	108.11	110.57
13	L	1004	CLA	C4D-C3D-CAD	-2.19	105.51	108.10
13	B	823	CLA	CBA-CAA-C2A	-2.19	107.40	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	J	1103	CLA	CAD-CBD-CHA	-2.19	102.67	105.14
15	B	849	BCR	C32-C1-C6	-2.19	106.75	110.30
13	B	802	CLA	CMD-C2D-C1D	2.19	128.57	124.71
13	L	1002	CLA	C3C-C4C-NC	-2.19	108.12	110.57
13	B	822	CLA	CHD-C1D-ND	-2.19	122.45	124.45
13	B	821	CLA	CAA-C2A-C3A	-2.18	106.80	112.78
15	J	1104	BCR	C12-C13-C14	-2.18	115.59	118.94
13	A	855	CLA	C3C-C4C-NC	-2.18	108.12	110.57
13	J	1101	CLA	C11-C10-C8	-2.18	108.86	115.92
15	B	841	BCR	C36-C18-C17	-2.18	119.87	122.92
15	B	844	BCR	C36-C18-C17	-2.18	119.87	122.92
13	A	801	CLA	C11-C10-C8	-2.18	108.87	115.92
15	A	850	BCR	C36-C18-C17	-2.18	119.87	122.92
13	B	820	CLA	CED-O2D-CGD	2.18	120.87	115.94
13	A	832	CLA	O2D-CGD-O1D	-2.18	119.58	123.84
13	A	843	CLA	C11-C10-C8	-2.18	108.88	115.92
13	A	826	CLA	CHD-C1D-ND	-2.18	122.45	124.45
13	B	816	CLA	C3C-C4C-NC	-2.18	108.13	110.57
13	I	101	CLA	C11-C10-C8	-2.18	108.88	115.92
13	A	841	CLA	CMD-C2D-C1D	2.18	128.55	124.71
13	A	812	CLA	CAA-CBA-CGA	-2.17	106.90	113.25
15	M	1203	BCR	C16-C15-C14	-2.17	119.02	123.47
13	B	829	CLA	CMD-C2D-C1D	2.17	128.54	124.71
13	M	1202	CLA	CMD-C2D-C1D	2.17	128.54	124.71
13	B	812	CLA	CHD-C1D-ND	-2.17	122.46	124.45
15	B	842	BCR	C36-C18-C17	-2.17	119.88	122.92
13	B	806	CLA	CHD-C1D-ND	-2.17	122.46	124.45
13	B	831	CLA	CED-O2D-CGD	-2.17	111.03	115.94
13	B	832	CLA	CMD-C2D-C1D	2.17	128.53	124.71
13	A	804	CLA	O2A-CGA-CBA	2.17	118.70	111.91
15	L	1006	BCR	C4-C5-C6	-2.17	119.59	122.73
13	A	814	CLA	CMD-C2D-C1D	2.17	128.53	124.71
15	J	1105	BCR	C36-C18-C17	-2.16	119.89	122.92
13	A	844	CLA	OBD-CAD-C3D	-2.16	125.16	128.74
13	A	805	CLA	C4-C3-C5	2.16	118.91	115.27
13	B	815	CLA	C11-C10-C8	-2.16	108.94	115.92
15	A	850	BCR	C27-C26-C25	-2.16	119.59	122.73
13	A	845	CLA	CMD-C2D-C1D	2.16	128.52	124.71
13	A	809	CLA	C11-C10-C8	-2.16	108.94	115.92
13	A	819	CLA	C16-C15-C13	-2.16	108.94	115.92
13	B	823	CLA	C4D-C3D-CAD	-2.16	105.55	108.10
15	B	844	BCR	C27-C26-C25	-2.16	119.60	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	842	CLA	CHD-C1D-ND	-2.16	122.47	124.45
13	B	812	CLA	O2D-CGD-O1D	-2.16	119.62	123.84
13	B	815	CLA	O2D-CGD-O1D	-2.16	119.62	123.84
13	A	806	CLA	O2A-CGA-CBA	2.16	118.67	111.91
15	A	852	BCR	C20-C21-C22	-2.15	124.23	127.31
15	J	1105	BCR	C4-C5-C6	-2.15	119.60	122.73
13	B	826	CLA	C3C-C4C-NC	-2.15	108.16	110.57
13	A	811	CLA	CMD-C2D-C1D	2.15	128.51	124.71
13	A	819	CLA	C2C-C1C-NC	-2.15	107.95	109.97
15	F	1302	BCR	C37-C22-C21	-2.15	119.91	122.92
13	A	804	CLA	OBD-CAD-C3D	-2.15	123.34	128.52
15	A	847	BCR	C30-C25-C26	-2.15	119.58	122.61
13	J	1101	CLA	C4D-C3D-CAD	-2.15	105.56	108.10
13	A	843	CLA	CHD-C1D-ND	-2.15	122.48	124.45
13	A	811	CLA	CHD-C1D-ND	-2.15	122.48	124.45
15	A	847	BCR	C4-C5-C6	-2.15	119.61	122.73
15	A	850	BCR	C10-C11-C12	-2.15	116.52	123.22
13	B	804	CLA	CHD-C1D-ND	-2.14	122.48	124.45
13	M	1202	CLA	CHD-C1D-ND	-2.14	122.48	124.45
13	B	838	CLA	O2A-CGA-O1A	-2.14	118.18	123.59
13	M	1201	CLA	C1-O2A-CGA	2.14	122.07	116.44
13	F	1301	CLA	CAA-C2A-C3A	-2.14	106.91	112.78
13	A	815	CLA	O2A-CGA-CBA	2.14	120.91	114.03
13	A	820	CLA	C1-O2A-CGA	2.14	122.06	116.44
15	F	1302	BCR	C8-C7-C6	-2.14	121.19	127.20
13	A	838	CLA	CMD-C2D-C1D	2.14	128.48	124.71
13	A	810	CLA	C3C-C4C-NC	-2.14	108.17	110.57
15	L	1006	BCR	C33-C5-C6	-2.14	122.13	124.53
13	A	827	CLA	O2D-CGD-O1D	-2.14	119.66	123.84
13	A	823	CLA	CED-O2D-CGD	2.13	120.76	115.94
15	B	841	BCR	C21-C20-C19	-2.13	116.56	123.22
13	B	803	CLA	C3C-C4C-NC	-2.13	108.18	110.57
15	A	850	BCR	C34-C9-C10	-2.13	119.94	122.92
13	B	805	CLA	C11-C10-C8	-2.13	109.03	115.92
13	A	809	CLA	C2C-C1C-NC	-2.13	107.98	109.97
13	B	823	CLA	CHD-C1D-ND	-2.13	122.50	124.45
13	B	801	CLA	C11-C10-C8	-2.13	109.04	115.92
15	F	1302	BCR	C16-C17-C18	-2.13	124.27	127.31
13	A	825	CLA	C4D-C3D-CAD	-2.13	105.59	108.10
13	B	836	CLA	C11-C10-C8	-2.13	109.05	115.92
15	B	847	BCR	C15-C14-C13	-2.13	124.28	127.31
13	B	802	CLA	CGD-CBD-CAD	-2.13	103.85	110.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	L	1005	BCR	C27-C26-C25	-2.12	119.65	122.73
15	A	849	BCR	C34-C9-C10	-2.12	119.96	122.92
13	A	806	CLA	C11-C12-C13	-2.11	109.09	115.92
13	A	804	CLA	CMD-C2D-C1D	2.11	128.44	124.71
13	A	812	CLA	C3C-C4C-NC	-2.11	108.20	110.57
13	B	824	CLA	C3C-C4C-NC	-2.11	108.20	110.57
13	A	830	CLA	C3C-C4C-NC	-2.11	108.20	110.57
13	B	820	CLA	C3C-C4C-NC	-2.11	108.20	110.57
13	A	826	CLA	CMD-C2D-C1D	2.11	128.43	124.71
13	B	802	CLA	CHD-C1D-ND	-2.11	122.52	124.45
13	M	1201	CLA	C4D-C3D-CAD	-2.11	105.61	108.10
13	A	825	CLA	CMD-C2D-C1D	2.11	128.43	124.71
15	M	1203	BCR	C21-C20-C19	-2.11	116.64	123.22
13	A	837	CLA	C1-C2-C3	-2.11	122.40	126.04
13	A	843	CLA	C11-C12-C13	-2.10	109.11	115.92
13	A	832	CLA	C3C-C4C-NC	-2.10	108.21	110.57
13	B	825	CLA	CMD-C2D-C1D	2.10	128.42	124.71
13	B	816	CLA	C1-O2A-CGA	2.10	121.96	116.44
13	B	824	CLA	C1-O2A-CGA	2.10	121.96	116.44
13	A	828	CLA	C11-C10-C8	-2.10	109.12	115.92
13	A	822	CLA	C3C-C4C-NC	-2.10	108.21	110.57
13	A	803	CLA	C7-C6-C5	-2.10	107.65	113.36
13	B	832	CLA	O2D-CGD-O1D	-2.10	119.73	123.84
13	B	814	CLA	CHD-C1D-ND	-2.10	122.52	124.45
13	B	835	CLA	CMD-C2D-C1D	2.10	128.41	124.71
13	A	821	CLA	C3C-C4C-NC	-2.10	108.22	110.57
13	A	827	CLA	CHD-C1D-ND	-2.10	122.53	124.45
15	A	850	BCR	C31-C1-C6	-2.09	106.90	110.30
13	I	101	CLA	C11-C12-C13	-2.09	109.15	115.92
15	L	1005	BCR	C12-C13-C14	-2.09	115.73	118.94
13	A	821	CLA	CMD-C2D-C1D	2.09	128.40	124.71
13	B	813	CLA	C2C-C1C-NC	-2.09	108.01	109.97
13	A	844	CLA	CMD-C2D-C1D	2.09	128.40	124.71
13	A	817	CLA	CMD-C2D-C1D	2.09	128.40	124.71
13	B	805	CLA	CMD-C2D-C1D	2.09	128.40	124.71
13	L	1002	CLA	C2C-C1C-NC	-2.09	108.02	109.97
15	L	1006	BCR	C23-C24-C25	-2.09	121.34	127.20
13	B	810	CLA	C4D-C3D-CAD	-2.09	105.64	108.10
13	A	813	CLA	C6-C7-C8	-2.09	109.17	115.92
13	A	810	CLA	CMD-C2D-C1D	2.09	128.39	124.71
13	B	824	CLA	C1-C2-C3	-2.09	122.44	126.04
13	B	806	CLA	CMD-C2D-C1D	2.09	128.39	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	A	824	CLA	C2C-C1C-NC	-2.09	108.02	109.97
13	A	830	CLA	C11-C10-C8	-2.08	109.19	115.92
13	B	811	CLA	C3C-C4C-NC	-2.08	108.23	110.57
13	B	812	CLA	C3C-C4C-NC	-2.08	108.23	110.57
13	A	812	CLA	CMD-C2D-C1D	2.08	128.38	124.71
13	B	801	CLA	C3C-C4C-NC	-2.08	108.24	110.57
13	A	834	CLA	C11-C10-C8	-2.08	109.19	115.92
13	A	841	CLA	CED-O2D-CGD	2.08	120.64	115.94
15	A	849	BCR	C20-C19-C18	-2.08	120.58	126.42
15	I	102	BCR	C31-C1-C6	-2.08	106.93	110.30
15	A	847	BCR	C15-C16-C17	-2.08	119.22	123.47
13	A	818	CLA	C3C-C4C-NC	-2.08	108.24	110.57
13	A	841	CLA	C3C-C4C-NC	-2.08	108.24	110.57
13	B	819	CLA	C3C-C4C-NC	-2.08	108.24	110.57
13	B	804	CLA	CMD-C2D-C1D	2.08	128.37	124.71
13	A	842	CLA	C4D-C3D-CAD	-2.08	105.65	108.10
13	A	830	CLA	CMD-C2D-C1D	2.08	128.37	124.71
15	A	847	BCR	C1-C6-C5	-2.07	119.69	122.61
13	A	835	CLA	C1-O2A-CGA	2.07	121.89	116.44
15	I	102	BCR	C19-C18-C17	-2.07	115.76	118.94
15	J	1104	BCR	C1-C6-C5	-2.07	119.69	122.61
13	A	844	CLA	O2A-CGA-CBA	2.07	120.69	114.03
15	B	845	BCR	C11-C10-C9	-2.07	124.35	127.31
13	L	1003	CLA	C2C-C1C-NC	-2.07	108.03	109.97
15	J	1105	BCR	C16-C15-C14	-2.07	119.23	123.47
13	A	809	CLA	O2A-CGA-O1A	-2.07	118.37	123.59
13	A	840	CLA	O2D-CGD-O1D	-2.07	119.80	123.84
13	A	808	CLA	C4D-C3D-CAD	-2.07	105.66	108.10
13	A	820	CLA	C11-C10-C8	-2.07	109.24	115.92
13	J	1101	CLA	C11-C12-C13	-2.07	109.24	115.92
13	A	828	CLA	CMD-C2D-C1D	2.06	128.35	124.71
15	B	845	BCR	C19-C18-C17	-2.06	115.77	118.94
13	B	816	CLA	CAA-C2A-C3A	-2.06	107.12	112.78
15	J	1105	BCR	C39-C30-C25	-2.06	106.95	110.30
13	I	101	CLA	O2A-CGA-CBA	2.06	118.39	111.91
13	B	835	CLA	CAA-C2A-C1A	2.06	118.74	111.97
15	B	842	BCR	C30-C25-C26	-2.06	119.71	122.61
13	A	813	CLA	C3C-C4C-NC	-2.06	108.26	110.57
13	A	803	CLA	C4D-C3D-CAD	-2.06	105.67	108.10
13	B	835	CLA	C1-O2A-CGA	2.06	121.85	116.44
15	J	1104	BCR	C36-C18-C17	-2.06	120.04	122.92
15	B	846	BCR	C4-C5-C6	-2.06	119.74	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	835	CLA	C3C-C4C-NC	-2.06	108.26	110.57
13	A	855	CLA	O2A-CGA-CBA	2.06	120.64	114.03
13	A	830	CLA	O2A-CGA-CBA	2.06	118.37	111.91
15	F	1302	BCR	C1-C6-C5	-2.06	119.71	122.61
15	B	844	BCR	C20-C21-C22	-2.06	124.37	127.31
13	L	1002	CLA	O2A-CGA-CBA	2.06	118.37	111.91
13	A	822	CLA	C2A-C1A-CHA	2.06	127.46	123.86
13	B	826	CLA	C6-C7-C8	-2.06	109.27	115.92
13	A	826	CLA	C2A-C1A-CHA	2.06	127.45	123.86
15	A	850	BCR	C30-C25-C26	-2.05	119.72	122.61
13	A	815	CLA	CMD-C2D-C1D	2.05	128.33	124.71
13	A	835	CLA	C2C-C1C-NC	-2.05	108.05	109.97
13	B	827	CLA	O2A-CGA-CBA	2.05	118.35	111.91
13	A	806	CLA	C4D-C3D-CAD	-2.05	105.68	108.10
13	B	811	CLA	C2A-C1A-CHA	2.05	127.45	123.86
13	B	802	CLA	C11-C10-C8	-2.05	109.29	115.92
13	B	831	CLA	CMD-C2D-C1D	2.05	128.32	124.71
13	B	820	CLA	CHD-C1D-ND	-2.05	122.57	124.45
15	J	1105	BCR	C12-C13-C14	-2.05	115.80	118.94
13	X	102	CLA	O2A-CGA-CBA	2.05	120.61	114.03
13	X	102	CLA	O2D-CGD-O1D	-2.04	119.84	123.84
15	B	847	BCR	C35-C13-C14	-2.04	120.06	122.92
13	B	804	CLA	CMB-C2B-C1B	-2.04	125.32	128.46
13	B	830	CLA	C3C-C4C-NC	-2.04	108.28	110.57
13	B	831	CLA	C11-C10-C8	-2.04	109.32	115.92
13	B	822	CLA	CMD-C2D-C1D	2.04	128.31	124.71
13	A	826	CLA	C1-O2A-CGA	2.04	121.80	116.44
15	B	850	BCR	C40-C30-C25	-2.04	106.99	110.30
13	A	820	CLA	C2A-C3A-C4A	2.04	105.16	101.87
15	B	850	BCR	C2-C3-C4	2.04	115.93	111.38
13	B	829	CLA	C4D-C3D-CAD	-2.04	105.70	108.10
15	A	852	BCR	C34-C9-C10	-2.04	120.07	122.92
13	B	835	CLA	CED-O2D-CGD	-2.04	111.33	115.94
13	B	815	CLA	C4D-C3D-CAD	-2.03	105.70	108.10
13	A	826	CLA	C3C-C4C-NC	-2.03	108.29	110.57
13	F	1301	CLA	CMD-C2D-C1D	2.03	128.29	124.71
15	L	1005	BCR	C4-C5-C6	-2.03	119.78	122.73
13	B	816	CLA	O2D-CGD-O1D	-2.03	119.87	123.84
13	B	815	CLA	CHD-C1D-ND	-2.03	122.59	124.45
13	B	805	CLA	C11-C12-C13	-2.03	109.36	115.92
13	B	829	CLA	C1-O2A-CGA	2.03	121.77	116.44
15	J	1104	BCR	C21-C20-C19	-2.03	116.89	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	B	829	CLA	O2D-CGD-O1D	-2.03	119.87	123.84
13	A	820	CLA	CMD-C2D-C1D	2.03	128.29	124.71
13	A	808	CLA	CED-O2D-CGD	-2.03	111.35	115.94
13	B	810	CLA	CMD-C2D-C1D	2.03	128.28	124.71
13	B	831	CLA	CHD-C1D-ND	-2.03	122.59	124.45
13	M	1202	CLA	O2A-CGA-CBA	2.03	120.54	114.03
13	B	832	CLA	C3C-C4C-NC	-2.02	108.30	110.57
15	B	845	BCR	C37-C22-C21	-2.02	120.09	122.92
13	B	816	CLA	CMD-C2D-C1D	2.02	128.28	124.71
13	A	806	CLA	O2D-CGD-O1D	-2.02	119.89	123.84
15	B	850	BCR	C1-C6-C5	-2.02	119.77	122.61
13	A	801	CLA	CMD-C2D-C1D	2.02	128.28	124.71
13	A	803	CLA	O2D-CGD-O1D	-2.02	119.89	123.84
13	A	803	CLA	CMD-C2D-C1D	2.02	128.28	124.71
13	A	814	CLA	O2D-CGD-O1D	-2.02	119.89	123.84
15	F	1302	BCR	C10-C11-C12	-2.02	116.91	123.22
13	A	830	CLA	C2C-C1C-NC	-2.02	108.08	109.97
14	A	846	PQN	C2M-C2-C1	2.02	119.61	116.27
13	B	802	CLA	C3D-C2D-C1D	-2.02	103.08	105.83
13	B	809	CLA	CMD-C2D-C1D	2.02	128.27	124.71
13	A	838	CLA	C11-C12-C13	-2.02	109.40	115.92
15	L	1006	BCR	C1-C6-C5	-2.02	119.77	122.61
13	B	814	CLA	CMD-C2D-C1D	2.02	128.27	124.71
13	A	823	CLA	O2A-CGA-CBA	2.02	118.23	111.91
13	B	838	CLA	C6-C7-C8	-2.02	109.41	115.92
13	I	101	CLA	C7-C6-C5	-2.01	107.89	113.36
13	B	827	CLA	CMD-C2D-C1D	2.01	128.26	124.71
13	A	840	CLA	CHD-C1D-ND	-2.01	122.60	124.45
15	A	852	BCR	C30-C25-C26	-2.01	119.78	122.61
13	B	813	CLA	CMD-C2D-C1D	2.01	128.26	124.71
13	B	829	CLA	CED-O2D-CGD	2.01	120.49	115.94
13	I	101	CLA	C4D-C3D-CAD	-2.01	105.72	108.10
13	B	823	CLA	C2A-C1A-CHA	2.01	127.38	123.86
13	A	815	CLA	O2D-CGD-O1D	-2.01	119.91	123.84
13	B	836	CLA	C4D-C3D-CAD	-2.01	105.73	108.10
15	B	842	BCR	C21-C20-C19	-2.01	116.94	123.22
13	A	801	CLA	CMB-C2B-C1B	-2.01	125.37	128.46
15	A	848	BCR	C21-C20-C19	-2.01	116.95	123.22
15	B	847	BCR	C27-C26-C25	-2.01	119.82	122.73
13	L	1004	CLA	C7-C6-C5	-2.01	107.91	113.36
15	B	841	BCR	C1-C6-C5	-2.01	119.79	122.61
13	B	819	CLA	CMD-C2D-C1D	2.01	128.25	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	J	1103	CLA	C3C-C4C-NC	-2.01	108.32	110.57
13	B	807	CLA	C11-C12-C13	-2.01	109.43	115.92
15	L	1005	BCR	C34-C9-C10	-2.01	120.11	122.92
13	A	837	CLA	C1-O2A-CGA	2.01	121.71	116.44
13	L	1002	CLA	CMD-C2D-C1D	2.01	128.25	124.71
15	B	849	BCR	C35-C13-C14	-2.00	120.11	122.92
15	B	850	BCR	C35-C13-C14	-2.00	120.12	122.92
13	B	816	CLA	C2C-C1C-NC	-2.00	108.09	109.97
13	J	1101	CLA	C3C-C4C-NC	-2.00	108.33	110.57
13	B	806	CLA	C4D-C3D-CAD	-2.00	105.74	108.10
15	B	849	BCR	C23-C22-C21	-2.00	115.87	118.94
15	A	852	BCR	C36-C18-C17	-2.00	120.12	122.92
13	A	843	CLA	O2A-C1-C2	-2.00	103.38	108.64
13	B	806	CLA	C7-C6-C5	-2.00	107.93	113.36

All (88) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
13	A	801	CLA	ND
13	A	802	CLA	ND
13	A	803	CLA	ND
13	A	804	CLA	ND
13	A	805	CLA	ND
13	A	806	CLA	ND
13	A	807	CLA	ND
13	A	808	CLA	ND
13	A	810	CLA	ND
13	A	811	CLA	ND
13	A	812	CLA	ND
13	A	813	CLA	ND
13	A	814	CLA	ND
13	A	815	CLA	ND
13	A	817	CLA	ND
13	A	818	CLA	ND
13	A	819	CLA	ND
13	A	820	CLA	ND
13	A	821	CLA	ND
13	A	822	CLA	ND
13	A	823	CLA	ND
13	A	824	CLA	ND
13	A	825	CLA	ND
13	A	827	CLA	ND

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Mol	Chain	Res	Type	Atom
13	A	828	CLA	ND
13	A	829	CLA	ND
13	A	830	CLA	ND
13	A	831	CLA	ND
13	A	832	CLA	ND
13	A	833	CLA	ND
13	A	834	CLA	ND
13	A	835	CLA	ND
13	A	836	CLA	ND
13	A	838	CLA	ND
13	A	839	CLA	ND
13	A	840	CLA	ND
13	A	841	CLA	ND
13	A	842	CLA	ND
13	A	843	CLA	ND
13	A	845	CLA	ND
13	A	855	CLA	ND
13	B	801	CLA	ND
13	B	802	CLA	ND
13	B	803	CLA	ND
13	B	804	CLA	ND
13	B	805	CLA	ND
13	B	806	CLA	ND
13	B	807	CLA	ND
13	B	808	CLA	ND
13	B	809	CLA	ND
13	B	810	CLA	ND
13	B	811	CLA	ND
13	B	812	CLA	ND
13	B	814	CLA	ND
13	B	815	CLA	ND
13	B	816	CLA	ND
13	B	817	CLA	ND
13	B	818	CLA	ND
13	B	819	CLA	ND
13	B	820	CLA	ND
13	B	821	CLA	ND
13	B	822	CLA	ND
13	B	823	CLA	ND
13	B	824	CLA	ND
13	B	825	CLA	ND
13	B	826	CLA	ND

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Mol	Chain	Res	Type	Atom
13	B	827	CLA	ND
13	B	828	CLA	ND
13	B	829	CLA	ND
13	B	830	CLA	ND
13	B	831	CLA	ND
13	B	832	CLA	ND
13	B	833	CLA	ND
13	B	834	CLA	ND
13	B	835	CLA	ND
13	B	836	CLA	ND
13	B	837	CLA	ND
13	B	838	CLA	ND
13	B	839	CLA	ND
13	I	101	CLA	ND
13	J	1101	CLA	ND
13	J	1102	CLA	ND
13	J	1103	CLA	ND
13	L	1002	CLA	ND
13	L	1003	CLA	ND
13	L	1004	CLA	ND
13	M	1201	CLA	ND
13	X	102	CLA	ND

All (957) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
13	A	804	CLA	CHA-CBD-CGD-O1D
13	A	804	CLA	CHA-CBD-CGD-O2D
13	A	805	CLA	O2A-C1-C2-C3
13	A	807	CLA	C3A-C2A-CAA-CBA
13	A	807	CLA	C4-C3-C5-C6
13	A	808	CLA	C11-C12-C13-C14
13	A	811	CLA	CHA-CBD-CGD-O1D
13	A	811	CLA	CHA-CBD-CGD-O2D
13	A	812	CLA	C2-C3-C5-C6
13	A	812	CLA	C4-C3-C5-C6
13	A	816	CLA	C2A-CAA-CBA-CGA
13	A	818	CLA	CAD-CBD-CGD-O1D
13	A	818	CLA	CAD-CBD-CGD-O2D
13	A	819	CLA	CHA-CBD-CGD-O1D
13	A	819	CLA	CHA-CBD-CGD-O2D
13	A	821	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	A	821	CLA	C3A-C2A-CAA-CBA
13	A	821	CLA	CHA-CBD-CGD-O1D
13	A	821	CLA	CHA-CBD-CGD-O2D
13	A	822	CLA	C2A-CAA-CBA-CGA
13	A	824	CLA	C2-C3-C5-C6
13	A	824	CLA	C4-C3-C5-C6
13	A	826	CLA	CHA-CBD-CGD-O1D
13	A	826	CLA	CHA-CBD-CGD-O2D
13	A	826	CLA	CAD-CBD-CGD-O1D
13	A	832	CLA	O2A-C1-C2-C3
13	A	837	CLA	CHA-CBD-CGD-O1D
13	A	837	CLA	CHA-CBD-CGD-O2D
13	A	838	CLA	C3A-C2A-CAA-CBA
13	A	840	CLA	C3A-C2A-CAA-CBA
13	A	840	CLA	CHA-CBD-CGD-O1D
13	A	840	CLA	CHA-CBD-CGD-O2D
13	A	842	CLA	C3A-C2A-CAA-CBA
13	A	843	CLA	C1A-C2A-CAA-CBA
13	A	843	CLA	C3A-C2A-CAA-CBA
13	B	806	CLA	C1A-C2A-CAA-CBA
13	B	806	CLA	C3A-C2A-CAA-CBA
13	B	807	CLA	C1A-C2A-CAA-CBA
13	B	807	CLA	C3A-C2A-CAA-CBA
13	B	820	CLA	C1A-C2A-CAA-CBA
13	B	820	CLA	C3A-C2A-CAA-CBA
13	B	822	CLA	C3A-C2A-CAA-CBA
13	B	822	CLA	CHA-CBD-CGD-O1D
13	B	822	CLA	CHA-CBD-CGD-O2D
13	B	827	CLA	CHA-CBD-CGD-O1D
13	B	827	CLA	CHA-CBD-CGD-O2D
13	B	827	CLA	C11-C12-C13-C14
13	B	830	CLA	CAD-CBD-CGD-O1D
13	B	830	CLA	CAD-CBD-CGD-O2D
13	B	833	CLA	CHA-CBD-CGD-O1D
13	B	833	CLA	CHA-CBD-CGD-O2D
13	B	836	CLA	C3A-C2A-CAA-CBA
13	F	1301	CLA	CAD-CBD-CGD-O1D
13	F	1301	CLA	CAD-CBD-CGD-O2D
13	M	1201	CLA	CHA-CBD-CGD-O1D
13	M	1201	CLA	CHA-CBD-CGD-O2D
14	A	846	PQN	C12-C13-C15-C16
15	A	847	BCR	C7-C8-C9-C34

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Mol	Chain	Res	Type	Atoms
15	A	847	BCR	C36-C18-C19-C20
15	A	848	BCR	C11-C12-C13-C35
15	A	848	BCR	C36-C18-C19-C20
15	A	848	BCR	C37-C22-C23-C24
15	A	849	BCR	C36-C18-C19-C20
15	A	850	BCR	C36-C18-C19-C20
15	A	850	BCR	C37-C22-C23-C24
15	A	850	BCR	C23-C24-C25-C26
15	A	850	BCR	C23-C24-C25-C30
15	A	851	BCR	C11-C12-C13-C35
15	A	851	BCR	C36-C18-C19-C20
15	A	851	BCR	C37-C22-C23-C24
15	A	852	BCR	C7-C8-C9-C34
15	A	852	BCR	C16-C17-C18-C19
15	A	852	BCR	C18-C19-C20-C21
15	A	852	BCR	C21-C22-C23-C24
15	A	852	BCR	C23-C24-C25-C26
15	A	852	BCR	C23-C24-C25-C30
15	B	841	BCR	C6-C7-C8-C9
15	B	841	BCR	C11-C12-C13-C35
15	B	841	BCR	C36-C18-C19-C20
15	B	842	BCR	C1-C6-C7-C8
15	B	842	BCR	C5-C6-C7-C8
15	B	842	BCR	C6-C7-C8-C9
15	B	842	BCR	C11-C10-C9-C34
15	B	842	BCR	C36-C18-C19-C20
15	B	842	BCR	C21-C22-C23-C24
15	B	843	BCR	C7-C8-C9-C34
15	B	843	BCR	C17-C18-C19-C20
15	B	843	BCR	C18-C19-C20-C21
15	B	843	BCR	C37-C22-C23-C24
15	B	844	BCR	C36-C18-C19-C20
15	B	844	BCR	C37-C22-C23-C24
15	B	845	BCR	C17-C18-C19-C20
15	B	845	BCR	C21-C22-C23-C24
15	B	845	BCR	C37-C22-C23-C24
15	B	845	BCR	C23-C24-C25-C30
15	B	846	BCR	C11-C12-C13-C35
15	B	846	BCR	C36-C18-C19-C20
15	B	847	BCR	C11-C12-C13-C35
15	B	847	BCR	C36-C18-C19-C20
15	B	847	BCR	C37-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
15	B	849	BCR	C1-C6-C7-C8
15	B	849	BCR	C5-C6-C7-C8
15	B	849	BCR	C6-C7-C8-C9
15	B	849	BCR	C7-C8-C9-C34
15	B	849	BCR	C18-C19-C20-C21
15	B	849	BCR	C37-C22-C23-C24
15	B	849	BCR	C23-C24-C25-C26
15	B	850	BCR	C7-C8-C9-C10
15	B	850	BCR	C7-C8-C9-C34
15	B	850	BCR	C36-C18-C19-C20
15	F	1302	BCR	C1-C6-C7-C8
15	F	1302	BCR	C5-C6-C7-C8
15	F	1302	BCR	C6-C7-C8-C9
15	F	1302	BCR	C7-C8-C9-C34
15	F	1302	BCR	C17-C18-C19-C20
15	F	1302	BCR	C18-C19-C20-C21
15	F	1302	BCR	C37-C22-C23-C24
15	I	102	BCR	C1-C6-C7-C8
15	I	102	BCR	C6-C7-C8-C9
15	I	102	BCR	C7-C8-C9-C34
15	I	102	BCR	C11-C12-C13-C35
15	I	102	BCR	C16-C17-C18-C19
15	I	102	BCR	C17-C18-C19-C20
15	I	102	BCR	C37-C22-C23-C24
15	J	1104	BCR	C5-C6-C7-C8
15	J	1104	BCR	C7-C8-C9-C10
15	J	1104	BCR	C7-C8-C9-C34
15	J	1104	BCR	C17-C18-C19-C20
15	J	1104	BCR	C18-C19-C20-C21
15	J	1105	BCR	C7-C8-C9-C34
15	J	1105	BCR	C11-C12-C13-C35
15	J	1105	BCR	C17-C18-C19-C20
15	J	1105	BCR	C37-C22-C23-C24
15	L	1005	BCR	C6-C7-C8-C9
15	L	1005	BCR	C7-C8-C9-C34
15	L	1005	BCR	C37-C22-C23-C24
15	L	1006	BCR	C6-C7-C8-C9
15	L	1006	BCR	C7-C8-C9-C10
15	L	1006	BCR	C11-C10-C9-C8
15	L	1006	BCR	C11-C12-C13-C35
15	L	1006	BCR	C36-C18-C19-C20
15	M	1203	BCR	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
15	M	1203	BCR	C7-C8-C9-C10
15	M	1203	BCR	C7-C8-C9-C34
15	M	1203	BCR	C11-C12-C13-C35
15	M	1203	BCR	C17-C18-C19-C20
15	M	1203	BCR	C37-C22-C23-C24
16	A	854	LHG	C3-O3-P-O5
16	A	854	LHG	C4-O6-P-O3
16	A	854	LHG	C8-C7-O7-C5
16	X	101	LHG	C3-O3-P-O5
16	X	101	LHG	C3-O3-P-O6
16	A	854	LHG	O9-C7-O7-C5
13	A	801	CLA	C3-C5-C6-C7
13	A	803	CLA	C3-C5-C6-C7
13	A	805	CLA	C3-C5-C6-C7
13	A	820	CLA	C3-C5-C6-C7
13	A	824	CLA	C3-C5-C6-C7
13	A	832	CLA	C3-C5-C6-C7
13	A	833	CLA	C3-C5-C6-C7
13	A	834	CLA	C3-C5-C6-C7
13	B	804	CLA	C3-C5-C6-C7
13	B	805	CLA	C3-C5-C6-C7
13	B	812	CLA	C3-C5-C6-C7
13	B	815	CLA	C3-C5-C6-C7
13	B	820	CLA	C3-C5-C6-C7
13	B	831	CLA	C3-C5-C6-C7
13	L	1004	CLA	C3-C5-C6-C7
14	B	840	PQN	C13-C15-C16-C17
13	A	832	CLA	C4-C3-C5-C6
13	A	808	CLA	C2A-CAA-CBA-CGA
13	A	812	CLA	C2A-CAA-CBA-CGA
13	A	818	CLA	C2A-CAA-CBA-CGA
13	A	823	CLA	C2A-CAA-CBA-CGA
13	A	831	CLA	C2A-CAA-CBA-CGA
13	A	833	CLA	C2A-CAA-CBA-CGA
13	A	842	CLA	C2A-CAA-CBA-CGA
13	A	843	CLA	C2A-CAA-CBA-CGA
13	B	806	CLA	C2A-CAA-CBA-CGA
13	J	1101	CLA	C2A-CAA-CBA-CGA
13	L	1002	CLA	C2A-CAA-CBA-CGA
13	L	1004	CLA	C2A-CAA-CBA-CGA
13	A	828	CLA	C3-C5-C6-C7
13	B	811	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
13	B	822	CLA	C3-C5-C6-C7
13	B	824	CLA	C3-C5-C6-C7
13	A	827	CLA	C3-C5-C6-C7
13	A	830	CLA	C3-C5-C6-C7
13	B	835	CLA	C3-C5-C6-C7
13	B	807	CLA	C5-C6-C7-C8
13	A	842	CLA	C3-C5-C6-C7
13	B	811	CLA	C5-C6-C7-C8
13	A	819	CLA	C4-C3-C5-C6
13	A	830	CLA	C4-C3-C5-C6
13	A	842	CLA	C4-C3-C5-C6
13	B	822	CLA	C4-C3-C5-C6
13	B	831	CLA	C4-C3-C5-C6
13	A	819	CLA	C2-C3-C5-C6
13	A	830	CLA	C2-C3-C5-C6
13	A	842	CLA	C2-C3-C5-C6
13	B	822	CLA	C2-C3-C5-C6
13	B	831	CLA	C2-C3-C5-C6
13	A	811	CLA	C2A-CAA-CBA-CGA
13	A	819	CLA	C2A-CAA-CBA-CGA
13	A	828	CLA	C2A-CAA-CBA-CGA
13	A	838	CLA	C2A-CAA-CBA-CGA
13	B	810	CLA	C2A-CAA-CBA-CGA
13	B	828	CLA	C2A-CAA-CBA-CGA
13	J	1102	CLA	C2A-CAA-CBA-CGA
13	X	102	CLA	C2A-CAA-CBA-CGA
18	B	848	LMG	O6-C5-C6-O5
16	X	101	LHG	O9-C7-O7-C5
13	B	839	CLA	C3-C5-C6-C7
13	B	803	CLA	C10-C11-C12-C13
13	B	825	CLA	C8-C10-C11-C12
13	B	836	CLA	C8-C10-C11-C12
13	A	819	CLA	C10-C11-C12-C13
13	B	803	CLA	C8-C10-C11-C12
13	B	824	CLA	C5-C6-C7-C8
16	A	853	LHG	O7-C5-C6-O8
13	B	839	CLA	C4-C3-C5-C6
13	A	832	CLA	C2-C3-C5-C6
13	A	803	CLA	C11-C10-C8-C9
13	A	809	CLA	C11-C12-C13-C14
13	A	811	CLA	C14-C13-C15-C16
13	A	820	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
13	A	830	CLA	C11-C12-C13-C14
13	B	808	CLA	C14-C13-C15-C16
13	B	811	CLA	C11-C12-C13-C14
13	B	812	CLA	C11-C12-C13-C14
13	B	817	CLA	C14-C13-C15-C16
13	B	826	CLA	C11-C12-C13-C14
13	B	830	CLA	C14-C13-C15-C16
13	B	838	CLA	C14-C13-C15-C16
14	A	846	PQN	C21-C22-C23-C24
13	A	810	CLA	C2A-CAA-CBA-CGA
13	A	820	CLA	C2A-CAA-CBA-CGA
15	A	849	BCR	C7-C8-C9-C34
15	A	852	BCR	C36-C18-C19-C20
15	A	852	BCR	C37-C22-C23-C24
15	B	841	BCR	C7-C8-C9-C34
15	B	842	BCR	C37-C22-C23-C24
15	B	843	BCR	C36-C18-C19-C20
15	B	845	BCR	C36-C18-C19-C20
15	B	849	BCR	C36-C18-C19-C20
15	B	850	BCR	C37-C22-C23-C24
15	F	1302	BCR	C36-C18-C19-C20
15	J	1104	BCR	C36-C18-C19-C20
15	J	1105	BCR	C36-C18-C19-C20
15	L	1006	BCR	C7-C8-C9-C34
15	M	1203	BCR	C36-C18-C19-C20
16	A	853	LHG	C7-C8-C9-C10
13	A	825	CLA	C8-C10-C11-C12
13	B	815	CLA	C8-C10-C11-C12
13	L	1002	CLA	C5-C6-C7-C8
13	A	808	CLA	C8-C10-C11-C12
13	A	813	CLA	C8-C10-C11-C12
13	A	819	CLA	C5-C6-C7-C8
13	A	821	CLA	C8-C10-C11-C12
13	A	825	CLA	C5-C6-C7-C8
13	B	801	CLA	C8-C10-C11-C12
13	B	826	CLA	C5-C6-C7-C8
13	B	826	CLA	C8-C10-C11-C12
13	B	826	CLA	C10-C11-C12-C13
13	B	827	CLA	C8-C10-C11-C12
13	L	1004	CLA	C8-C10-C11-C12
14	A	846	PQN	C23-C25-C26-C27
13	A	811	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
13	A	832	CLA	C8-C10-C11-C12
13	B	816	CLA	C10-C11-C12-C13
13	B	825	CLA	C10-C11-C12-C13
13	B	807	CLA	C3-C5-C6-C7
13	A	804	CLA	C5-C6-C7-C8
13	A	804	CLA	C8-C10-C11-C12
13	A	824	CLA	C8-C10-C11-C12
13	A	842	CLA	C8-C10-C11-C12
13	B	824	CLA	C8-C10-C11-C12
13	B	827	CLA	C10-C11-C12-C13
13	L	1002	CLA	C10-C11-C12-C13
13	B	824	CLA	C12-C13-C15-C16
15	A	852	BCR	C19-C20-C21-C22
13	A	832	CLA	C5-C6-C7-C8
13	B	825	CLA	C5-C6-C7-C8
13	B	838	CLA	C10-C11-C12-C13
14	A	846	PQN	C15-C16-C17-C18
13	A	820	CLA	C10-C11-C12-C13
15	A	847	BCR	C18-C19-C20-C21
15	A	849	BCR	C18-C19-C20-C21
15	B	841	BCR	C18-C19-C20-C21
15	B	844	BCR	C18-C19-C20-C21
15	B	845	BCR	C18-C19-C20-C21
15	B	846	BCR	C10-C11-C12-C13
15	B	846	BCR	C18-C19-C20-C21
15	B	850	BCR	C18-C19-C20-C21
15	I	102	BCR	C18-C19-C20-C21
15	J	1105	BCR	C18-C19-C20-C21
15	M	1203	BCR	C18-C19-C20-C21
13	A	840	CLA	C3-C5-C6-C7
13	A	802	CLA	C10-C11-C12-C13
13	A	842	CLA	C5-C6-C7-C8
13	B	803	CLA	C5-C6-C7-C8
13	B	838	CLA	C8-C10-C11-C12
13	A	809	CLA	C8-C10-C11-C12
13	B	804	CLA	C8-C10-C11-C12
13	B	806	CLA	C5-C6-C7-C8
13	B	811	CLA	C8-C10-C11-C12
13	A	830	CLA	C5-C6-C7-C8
13	A	838	CLA	C5-C6-C7-C8
13	B	838	CLA	C5-C6-C7-C8
13	A	835	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
13	A	805	CLA	C10-C11-C12-C13
13	A	838	CLA	C10-C11-C12-C13
13	B	836	CLA	C5-C6-C7-C8
13	I	101	CLA	C8-C10-C11-C12
13	A	827	CLA	C10-C11-C12-C13
13	A	802	CLA	C2A-CAA-CBA-CGA
13	A	840	CLA	C2A-CAA-CBA-CGA
13	B	807	CLA	C2A-CAA-CBA-CGA
13	B	836	CLA	C2A-CAA-CBA-CGA
13	F	1301	CLA	C2A-CAA-CBA-CGA
13	B	826	CLA	C3-C5-C6-C7
16	X	101	LHG	C8-C7-O7-C5
15	B	846	BCR	C11-C10-C9-C34
15	B	847	BCR	C11-C10-C9-C34
15	L	1005	BCR	C20-C21-C22-C37
13	A	808	CLA	C16-C17-C18-C19
18	B	848	LMG	C23-C24-C25-C26
13	A	833	CLA	C10-C11-C12-C13
15	A	852	BCR	C20-C21-C22-C23
15	B	842	BCR	C16-C17-C18-C19
15	B	843	BCR	C16-C17-C18-C19
15	B	844	BCR	C16-C17-C18-C19
15	B	847	BCR	C16-C17-C18-C19
15	B	850	BCR	C16-C17-C18-C19
15	J	1104	BCR	C16-C17-C18-C19
15	J	1105	BCR	C11-C10-C9-C8
15	J	1105	BCR	C16-C17-C18-C19
15	L	1005	BCR	C20-C21-C22-C23
15	M	1203	BCR	C11-C10-C9-C8
15	M	1203	BCR	C16-C17-C18-C19
16	A	853	LHG	C9-C10-C11-C12
13	A	826	CLA	C16-C17-C18-C19
13	B	835	CLA	C11-C12-C13-C14
13	A	827	CLA	C2-C3-C5-C6
13	A	811	CLA	C11-C12-C13-C14
13	A	821	CLA	C14-C13-C15-C16
13	A	833	CLA	C14-C13-C15-C16
13	B	807	CLA	C14-C13-C15-C16
13	B	838	CLA	C11-C12-C13-C14
13	L	1002	CLA	C11-C12-C13-C14
13	L	1003	CLA	C11-C12-C13-C14
14	B	840	PQN	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
13	B	815	CLA	C2A-CAA-CBA-CGA
13	B	820	CLA	C2A-CAA-CBA-CGA
15	I	102	BCR	C36-C18-C19-C20
15	A	851	BCR	C21-C22-C23-C24
15	A	852	BCR	C17-C18-C19-C20
15	B	849	BCR	C17-C18-C19-C20
15	L	1005	BCR	C7-C8-C9-C10
15	L	1005	BCR	C21-C22-C23-C24
13	A	833	CLA	C8-C10-C11-C12
13	B	807	CLA	C10-C11-C12-C13
16	A	853	LHG	C23-C24-C25-C26
13	A	808	CLA	C16-C17-C18-C20
13	B	807	CLA	C16-C17-C18-C19
13	B	807	CLA	C16-C17-C18-C20
16	A	853	LHG	C11-C10-C9-C8
13	A	826	CLA	C16-C17-C18-C20
13	B	835	CLA	C11-C12-C13-C15
13	B	822	CLA	O2A-C1-C2-C3
15	F	1302	BCR	C14-C15-C16-C17
13	A	843	CLA	C3-C5-C6-C7
13	L	1003	CLA	C3-C5-C6-C7
13	B	835	CLA	C2-C3-C5-C6
13	A	812	CLA	C5-C6-C7-C8
13	A	832	CLA	C16-C17-C18-C19
13	B	812	CLA	C8-C10-C11-C12
13	B	816	CLA	C8-C10-C11-C12
15	A	851	BCR	C1-C6-C7-C8
15	A	851	BCR	C5-C6-C7-C8
15	B	845	BCR	C23-C24-C25-C26
15	B	847	BCR	C1-C6-C7-C8
15	B	847	BCR	C5-C6-C7-C8
15	B	849	BCR	C23-C24-C25-C30
15	J	1104	BCR	C1-C6-C7-C8
15	J	1105	BCR	C23-C24-C25-C26
15	J	1105	BCR	C23-C24-C25-C30
15	M	1203	BCR	C1-C6-C7-C8
15	M	1203	BCR	C5-C6-C7-C8
13	A	827	CLA	C4-C3-C5-C6
13	B	835	CLA	C4-C3-C5-C6
13	A	811	CLA	C11-C12-C13-C15
13	A	830	CLA	C11-C12-C13-C15
13	A	833	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
13	B	807	CLA	C12-C13-C15-C16
13	B	808	CLA	C12-C13-C15-C16
13	B	812	CLA	C11-C12-C13-C15
13	B	838	CLA	C11-C12-C13-C15
13	B	839	CLA	C2-C3-C5-C6
13	L	1002	CLA	C11-C12-C13-C15
13	L	1003	CLA	C11-C12-C13-C15
13	A	830	CLA	C8-C10-C11-C12
13	B	817	CLA	C16-C17-C18-C20
13	B	816	CLA	C2A-CAA-CBA-CGA
13	B	818	CLA	C2A-CAA-CBA-CGA
13	I	101	CLA	C5-C6-C7-C8
16	A	853	LHG	C33-C34-C35-C36
13	B	820	CLA	C5-C6-C7-C8
13	A	804	CLA	C10-C11-C12-C13
13	A	813	CLA	C2C-C3C-CAC-CBC
15	J	1105	BCR	C6-C7-C8-C9
13	A	838	CLA	C16-C17-C18-C19
13	B	830	CLA	C5-C6-C7-C8
13	B	830	CLA	C2C-C3C-CAC-CBC
13	B	804	CLA	C10-C11-C12-C13
13	A	806	CLA	C3-C5-C6-C7
13	A	808	CLA	C3-C5-C6-C7
13	B	802	CLA	C14-C13-C15-C16
13	B	824	CLA	C14-C13-C15-C16
18	B	848	LMG	C29-C30-C31-C32
13	A	811	CLA	C3-C5-C6-C7
13	B	804	CLA	C2A-CAA-CBA-CGA
13	B	826	CLA	C2A-CAA-CBA-CGA
13	B	832	CLA	C2A-CAA-CBA-CGA
13	B	812	CLA	C5-C6-C7-C8
13	A	807	CLA	C1A-C2A-CAA-CBA
13	A	838	CLA	C1A-C2A-CAA-CBA
13	A	840	CLA	C1A-C2A-CAA-CBA
13	A	842	CLA	C1A-C2A-CAA-CBA
13	B	836	CLA	C1A-C2A-CAA-CBA
13	A	832	CLA	C16-C17-C18-C20
13	L	1003	CLA	C8-C10-C11-C12
18	B	848	LMG	C31-C32-C33-C34
13	A	835	CLA	C5-C6-C7-C8
16	A	853	LHG	C24-C25-C26-C27
13	A	808	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
18	B	848	LMG	C13-C14-C15-C16
13	B	834	CLA	C2A-CAA-CBA-CGA
13	B	817	CLA	C16-C17-C18-C19
16	A	853	LHG	C4-C5-C6-O8
16	A	854	LHG	C4-C5-C6-O8
13	A	804	CLA	C11-C12-C13-C14
13	A	811	CLA	C10-C11-C12-C13
16	A	853	LHG	C28-C29-C30-C31
13	A	809	CLA	C3-C5-C6-C7
16	A	853	LHG	C19-C20-C21-C22
14	B	840	PQN	C15-C16-C17-C18
13	A	829	CLA	CAA-CBA-CGA-O2A
13	A	820	CLA	C5-C6-C7-C8
13	B	815	CLA	C4-C3-C5-C6
16	A	854	LHG	C10-C11-C12-C13
13	A	805	CLA	C8-C10-C11-C12
13	A	840	CLA	C5-C6-C7-C8
13	B	817	CLA	C2A-CAA-CBA-CGA
13	M	1201	CLA	C5-C6-C7-C8
13	B	806	CLA	C16-C17-C18-C20
13	A	828	CLA	C8-C10-C11-C12
15	A	847	BCR	C16-C17-C18-C19
15	B	845	BCR	C16-C17-C18-C19
15	B	847	BCR	C20-C21-C22-C23
16	A	853	LHG	C13-C14-C15-C16
13	A	803	CLA	C4-C3-C5-C6
13	A	809	CLA	C11-C12-C13-C15
13	A	821	CLA	C11-C12-C13-C15
13	A	834	CLA	C11-C12-C13-C15
13	B	801	CLA	C12-C13-C15-C16
13	B	802	CLA	C12-C13-C15-C16
13	B	811	CLA	C11-C12-C13-C15
13	B	815	CLA	C2-C3-C5-C6
13	B	826	CLA	C11-C12-C13-C15
13	B	827	CLA	C11-C12-C13-C15
13	B	830	CLA	C12-C13-C15-C16
13	I	101	CLA	C12-C13-C15-C16
13	L	1002	CLA	C12-C13-C15-C16
13	L	1004	CLA	C12-C13-C15-C16
13	A	819	CLA	C11-C12-C13-C14
13	A	832	CLA	C11-C12-C13-C14
13	A	834	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
13	A	838	CLA	C11-C12-C13-C14
13	B	801	CLA	C11-C12-C13-C14
13	B	805	CLA	C14-C13-C15-C16
13	I	101	CLA	C14-C13-C15-C16
13	L	1002	CLA	C14-C13-C15-C16
14	B	840	PQN	C24-C23-C25-C26
15	B	841	BCR	C17-C18-C19-C20
15	J	1105	BCR	C7-C8-C9-C10
13	A	834	CLA	C5-C6-C7-C8
15	A	847	BCR	C6-C7-C8-C9
15	A	852	BCR	C6-C7-C8-C9
15	B	849	BCR	C22-C23-C24-C25
13	I	101	CLA	C16-C17-C18-C20
13	L	1003	CLA	C16-C17-C18-C20
13	A	828	CLA	C5-C6-C7-C8
13	B	811	CLA	C10-C11-C12-C13
13	A	803	CLA	C2-C3-C5-C6
13	B	806	CLA	C16-C17-C18-C19
13	A	811	CLA	C3A-C2A-CAA-CBA
13	A	812	CLA	C3A-C2A-CAA-CBA
13	A	829	CLA	C3A-C2A-CAA-CBA
13	A	834	CLA	C3A-C2A-CAA-CBA
13	B	838	CLA	C3A-C2A-CAA-CBA
13	L	1004	CLA	C3A-C2A-CAA-CBA
18	B	848	LMG	C21-C22-C23-C24
18	B	848	LMG	C30-C31-C32-C33
13	B	830	CLA	C10-C11-C12-C13
16	X	101	LHG	C4-C5-C6-O8
13	A	825	CLA	C4-C3-C5-C6
13	A	840	CLA	C4-C3-C5-C6
13	B	838	CLA	C4-C3-C5-C6
16	A	853	LHG	C35-C36-C37-C38
16	A	854	LHG	C3-O3-P-O6
13	B	802	CLA	C3-C5-C6-C7
13	B	825	CLA	CAA-CBA-CGA-O2A
13	A	801	CLA	C2-C1-O2A-CGA
13	A	808	CLA	C2-C1-O2A-CGA
13	B	803	CLA	C2-C1-O2A-CGA
13	A	828	CLA	CAA-CBA-CGA-O2A
13	A	803	CLA	C14-C13-C15-C16
13	A	805	CLA	C11-C12-C13-C14
13	A	806	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
13	A	828	CLA	C11-C12-C13-C14
13	B	802	CLA	C11-C12-C13-C14
13	B	804	CLA	C11-C12-C13-C14
13	B	825	CLA	C14-C13-C15-C16
13	L	1004	CLA	C14-C13-C15-C16
13	B	815	CLA	C11-C12-C13-C14
13	A	834	CLA	C2A-CAA-CBA-CGA
13	B	813	CLA	C2A-CAA-CBA-CGA
13	A	838	CLA	C16-C17-C18-C20
13	I	101	CLA	C16-C17-C18-C19
13	L	1003	CLA	C16-C17-C18-C19
15	A	847	BCR	C1-C6-C7-C8
15	A	847	BCR	C5-C6-C7-C8
15	A	848	BCR	C1-C6-C7-C8
15	A	848	BCR	C5-C6-C7-C8
15	I	102	BCR	C5-C6-C7-C8
15	I	102	BCR	C23-C24-C25-C26
15	I	102	BCR	C23-C24-C25-C30
13	A	813	CLA	C4C-C3C-CAC-CBC
13	B	826	CLA	CAA-CBA-CGA-O2A
15	B	845	BCR	C7-C8-C9-C34
15	A	849	BCR	C17-C18-C19-C20
15	A	850	BCR	C21-C22-C23-C24
15	B	847	BCR	C21-C22-C23-C24
15	B	849	BCR	C7-C8-C9-C10
15	J	1105	BCR	C21-C22-C23-C24
13	B	822	CLA	C5-C6-C7-C8
13	A	805	CLA	C11-C12-C13-C15
13	A	806	CLA	C12-C13-C15-C16
13	A	808	CLA	C11-C12-C13-C15
13	A	809	CLA	C12-C13-C15-C16
13	A	811	CLA	C12-C13-C15-C16
13	A	819	CLA	C11-C12-C13-C15
13	A	821	CLA	C12-C13-C15-C16
13	A	825	CLA	C2-C3-C5-C6
13	A	828	CLA	C11-C12-C13-C15
13	A	838	CLA	C11-C12-C13-C15
13	A	840	CLA	C2-C3-C5-C6
13	B	801	CLA	C11-C12-C13-C15
13	B	802	CLA	C11-C12-C13-C15
13	B	805	CLA	C12-C13-C15-C16
13	B	811	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
13	B	812	CLA	C12-C13-C15-C16
13	B	826	CLA	C12-C13-C15-C16
14	A	846	PQN	C21-C22-C23-C25
18	B	848	LMG	C40-C41-C42-C43
13	B	824	CLA	C10-C11-C12-C13
18	B	848	LMG	C4-C5-C6-O5
13	A	801	CLA	C5-C6-C7-C8
15	A	848	BCR	C35-C13-C14-C15
15	B	841	BCR	C20-C21-C22-C37
15	B	843	BCR	C20-C21-C22-C37
15	B	846	BCR	C20-C21-C22-C37
15	B	847	BCR	C35-C13-C14-C15
15	I	102	BCR	C35-C13-C14-C15
15	J	1104	BCR	C11-C10-C9-C34
15	J	1104	BCR	C20-C21-C22-C37
15	L	1006	BCR	C20-C21-C22-C37
15	M	1203	BCR	C35-C13-C14-C15
18	B	848	LMG	C34-C35-C36-C37
13	A	801	CLA	CAD-CBD-CGD-O2D
13	A	807	CLA	CAD-CBD-CGD-O2D
13	A	808	CLA	CAD-CBD-CGD-O2D
13	A	812	CLA	CAD-CBD-CGD-O2D
13	A	834	CLA	CAD-CBD-CGD-O2D
13	A	836	CLA	CAD-CBD-CGD-O2D
13	A	843	CLA	CAD-CBD-CGD-O2D
13	B	812	CLA	CAD-CBD-CGD-O2D
13	I	101	CLA	CAD-CBD-CGD-O2D
13	A	827	CLA	C16-C17-C18-C20
13	A	820	CLA	C8-C10-C11-C12
13	A	829	CLA	C10-C11-C12-C13
13	B	839	CLA	C8-C10-C11-C12
13	A	816	CLA	O2A-C1-C2-C3
13	A	835	CLA	C2A-CAA-CBA-CGA
13	A	818	CLA	C5-C6-C7-C8
13	A	824	CLA	CHA-CBD-CGD-O1D
13	A	824	CLA	CHA-CBD-CGD-O2D
13	A	832	CLA	CHA-CBD-CGD-O1D
13	A	832	CLA	CHA-CBD-CGD-O2D
13	A	839	CLA	CHA-CBD-CGD-O1D
13	A	839	CLA	CHA-CBD-CGD-O2D
13	B	802	CLA	CHA-CBD-CGD-O1D
13	B	802	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
13	B	803	CLA	CHA-CBD-CGD-O1D
13	B	807	CLA	CHA-CBD-CGD-O1D
13	B	807	CLA	CHA-CBD-CGD-O2D
13	B	808	CLA	CHA-CBD-CGD-O1D
13	B	817	CLA	CHA-CBD-CGD-O1D
13	B	817	CLA	CHA-CBD-CGD-O2D
13	B	828	CLA	CHA-CBD-CGD-O1D
13	B	828	CLA	CHA-CBD-CGD-O2D
13	B	835	CLA	CHA-CBD-CGD-O1D
13	B	835	CLA	CHA-CBD-CGD-O2D
15	B	842	BCR	C11-C10-C9-C8
15	I	102	BCR	C11-C10-C9-C8
15	M	1203	BCR	C20-C21-C22-C23
16	A	853	LHG	C31-C32-C33-C34
16	A	854	LHG	O7-C5-C6-O8
16	X	101	LHG	O7-C5-C6-O8
13	A	821	CLA	C4-C3-C5-C6
13	A	809	CLA	C14-C13-C15-C16
13	B	811	CLA	C14-C13-C15-C16
13	B	836	CLA	C11-C12-C13-C14
13	L	1003	CLA	C14-C13-C15-C16
13	A	843	CLA	C8-C10-C11-C12
13	A	821	CLA	C2A-CAA-CBA-CGA
15	B	842	BCR	C17-C18-C19-C20
15	B	843	BCR	C7-C8-C9-C10
15	B	850	BCR	C17-C18-C19-C20
13	A	842	CLA	C16-C17-C18-C20
16	X	101	LHG	C4-O6-P-O3
13	A	827	CLA	C16-C17-C18-C19
13	B	814	CLA	C2A-CAA-CBA-CGA
13	A	804	CLA	CAD-CBD-CGD-O1D
13	A	824	CLA	CAD-CBD-CGD-O1D
13	A	832	CLA	CAD-CBD-CGD-O1D
13	B	803	CLA	CAD-CBD-CGD-O1D
13	B	825	CLA	CAD-CBD-CGD-O1D
13	B	828	CLA	CAD-CBD-CGD-O1D
13	B	835	CLA	CAD-CBD-CGD-O1D
13	L	1003	CLA	C5-C6-C7-C8
14	A	846	PQN	C13-C15-C16-C17
13	A	821	CLA	C10-C11-C12-C13
13	A	828	CLA	C4-C3-C5-C6
13	A	829	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
13	A	832	CLA	C12-C13-C15-C16
13	A	838	CLA	C12-C13-C15-C16
13	A	842	CLA	C12-C13-C15-C16
13	B	836	CLA	C11-C12-C13-C15
13	I	101	CLA	C11-C12-C13-C15
13	L	1003	CLA	C12-C13-C15-C16
14	B	840	PQN	C22-C23-C25-C26
13	A	809	CLA	C5-C6-C7-C8
16	A	853	LHG	C15-C16-C17-C18
13	A	836	CLA	C2A-CAA-CBA-CGA
13	B	815	CLA	C5-C6-C7-C8
13	A	821	CLA	C2-C3-C5-C6
13	B	816	CLA	CAA-CBA-CGA-O2A
13	A	805	CLA	C5-C6-C7-C8
13	A	802	CLA	C11-C12-C13-C14
13	A	840	CLA	C11-C12-C13-C14
13	B	801	CLA	C14-C13-C15-C16
13	B	824	CLA	C11-C12-C13-C14
13	B	826	CLA	C14-C13-C15-C16
13	B	827	CLA	C6-C7-C8-C9
13	I	101	CLA	C3-C5-C6-C7
16	A	854	LHG	C9-C10-C11-C12
13	L	1003	CLA	CAA-CBA-CGA-O2A
15	A	848	BCR	C21-C22-C23-C24
13	A	805	CLA	C4-C3-C5-C6
13	B	806	CLA	C4-C3-C5-C6
13	A	816	CLA	C1-C2-C3-C4
13	A	822	CLA	C1-C2-C3-C4
13	B	829	CLA	C1-C2-C3-C4
13	B	802	CLA	C2A-CAA-CBA-CGA
13	A	811	CLA	C2-C1-O2A-CGA
13	A	842	CLA	C2-C1-O2A-CGA
13	B	802	CLA	C2-C1-O2A-CGA
13	B	808	CLA	C2-C1-O2A-CGA
13	M	1201	CLA	CAA-CBA-CGA-O2A
13	J	1101	CLA	C3-C5-C6-C7
15	A	848	BCR	C23-C24-C25-C30
13	A	818	CLA	CAA-CBA-CGA-O2A
13	A	813	CLA	C11-C12-C13-C15
13	A	824	CLA	C2A-CAA-CBA-CGA
15	A	848	BCR	C16-C17-C18-C19
15	A	851	BCR	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
15	B	841	BCR	C16-C17-C18-C19
15	B	849	BCR	C16-C17-C18-C19
16	A	853	LHG	C3-O3-P-O6
16	A	853	LHG	C4-O6-P-O3
13	A	803	CLA	C10-C11-C12-C13
13	B	838	CLA	C2-C3-C5-C6
13	A	829	CLA	C14-C13-C15-C16
13	A	832	CLA	C14-C13-C15-C16
13	A	838	CLA	C14-C13-C15-C16
13	A	842	CLA	C14-C13-C15-C16
13	B	812	CLA	C14-C13-C15-C16
15	M	1203	BCR	C19-C20-C21-C22
13	A	842	CLA	C16-C17-C18-C19
13	B	812	CLA	C2A-CAA-CBA-CGA
13	B	830	CLA	C4C-C3C-CAC-CBC
13	B	801	CLA	C3-C5-C6-C7
13	L	1003	CLA	C2C-C3C-CAC-CBC
15	B	845	BCR	C19-C20-C21-C22
13	A	845	CLA	CAA-CBA-CGA-O2A
13	A	801	CLA	C16-C17-C18-C20
13	B	818	CLA	CAA-CBA-CGA-O2A
13	A	819	CLA	C2-C1-O2A-CGA
13	M	1201	CLA	C2-C1-O2A-CGA
13	A	828	CLA	C10-C11-C12-C13
13	A	829	CLA	CAA-CBA-CGA-O1A
13	A	817	CLA	C3A-C2A-CAA-CBA
13	A	810	CLA	CAA-CBA-CGA-O1A
13	A	842	CLA	C11-C10-C8-C9
13	B	838	CLA	C11-C10-C8-C9
13	I	101	CLA	C11-C12-C13-C14
16	A	853	LHG	C16-C17-C18-C19
15	A	848	BCR	C11-C10-C9-C34
13	B	810	CLA	CAA-CBA-CGA-O1A
13	B	803	CLA	C16-C17-C18-C20
13	B	830	CLA	O2A-C1-C2-C3
13	B	809	CLA	CAA-CBA-CGA-O1A
15	L	1006	BCR	C37-C22-C23-C24
13	B	834	CLA	CAA-CBA-CGA-O1A
13	B	834	CLA	CAA-CBA-CGA-O2A
13	A	811	CLA	C1A-C2A-CAA-CBA
13	A	829	CLA	C1A-C2A-CAA-CBA
13	B	822	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
13	B	838	CLA	C1A-C2A-CAA-CBA
13	A	803	CLA	C12-C13-C15-C16
13	B	803	CLA	C11-C12-C13-C15
13	B	805	CLA	C11-C12-C13-C15
13	B	838	CLA	C12-C13-C15-C16
14	B	840	PQN	C21-C22-C23-C25
13	B	801	CLA	C5-C6-C7-C8
13	B	805	CLA	C10-C11-C12-C13
13	B	810	CLA	CAA-CBA-CGA-O2A
15	B	844	BCR	C19-C20-C21-C22
13	X	102	CLA	CAA-CBA-CGA-O2A
13	J	1101	CLA	C10-C11-C12-C13
13	X	102	CLA	CAA-CBA-CGA-O1A
13	B	830	CLA	C8-C10-C11-C12
16	A	853	LHG	C26-C27-C28-C29
13	A	801	CLA	C16-C17-C18-C19
13	B	832	CLA	CAA-CBA-CGA-O1A
13	A	810	CLA	CAA-CBA-CGA-O2A
13	B	832	CLA	CAA-CBA-CGA-O2A
15	A	849	BCR	C16-C17-C18-C19
15	J	1104	BCR	C11-C10-C9-C8
13	A	814	CLA	CAA-CBA-CGA-O2A
13	B	809	CLA	CAA-CBA-CGA-O2A
13	B	830	CLA	C2A-CAA-CBA-CGA
15	B	842	BCR	C19-C20-C21-C22
15	J	1105	BCR	C19-C20-C21-C22
16	X	101	LHG	C1-C2-C3-O3
13	L	1002	CLA	C4-C3-C5-C6
13	B	807	CLA	C2-C1-O2A-CGA
13	B	814	CLA	C2-C1-O2A-CGA
15	B	842	BCR	C18-C19-C20-C21
15	B	847	BCR	C10-C11-C12-C13
13	A	826	CLA	C14-C13-C15-C16
13	A	832	CLA	C11-C10-C8-C9
13	A	826	CLA	C8-C10-C11-C12
15	A	848	BCR	C23-C24-C25-C26
15	B	841	BCR	C1-C6-C7-C8
15	B	850	BCR	C23-C24-C25-C30
15	L	1005	BCR	C23-C24-C25-C26
13	B	837	CLA	CAA-CBA-CGA-O2A
13	B	813	CLA	CAA-CBA-CGA-O1A
15	A	848	BCR	C19-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
15	B	849	BCR	C19-C20-C21-C22
13	B	811	CLA	C4-C3-C5-C6
15	A	850	BCR	C17-C18-C19-C20
13	A	813	CLA	C11-C12-C13-C14
13	A	805	CLA	C2-C3-C5-C6
13	B	806	CLA	C2-C3-C5-C6
13	A	822	CLA	CAA-CBA-CGA-O2A
13	B	801	CLA	C16-C17-C18-C20
13	A	819	CLA	C3-C5-C6-C7
13	A	814	CLA	CAA-CBA-CGA-O1A
13	B	833	CLA	CAA-CBA-CGA-O2A
13	A	817	CLA	C2A-CAA-CBA-CGA
13	A	839	CLA	C2A-CAA-CBA-CGA
13	B	837	CLA	C2A-CAA-CBA-CGA
13	A	812	CLA	CAA-CBA-CGA-O2A
13	L	1004	CLA	C16-C17-C18-C20
16	X	101	LHG	O6-C4-C5-C6
13	B	812	CLA	CAA-CBA-CGA-O2A
14	B	840	PQN	C14-C13-C15-C16
13	A	826	CLA	C12-C13-C15-C16
13	B	825	CLA	C12-C13-C15-C16
13	B	827	CLA	C6-C7-C8-C10
15	F	1302	BCR	C19-C20-C21-C22
15	I	102	BCR	C19-C20-C21-C22
13	A	829	CLA	C8-C10-C11-C12
13	B	833	CLA	CAA-CBA-CGA-O1A
13	B	807	CLA	CAA-CBA-CGA-O2A
13	A	834	CLA	C8-C10-C11-C12
13	A	844	CLA	CAA-CBA-CGA-O2A
15	B	846	BCR	C35-C13-C14-C15
13	B	812	CLA	C4-C3-C5-C6
16	A	853	LHG	C14-C15-C16-C17
13	A	828	CLA	C2-C3-C5-C6
13	A	821	CLA	C11-C12-C13-C14
13	A	828	CLA	C3A-C2A-CAA-CBA
13	B	817	CLA	C3A-C2A-CAA-CBA
13	B	823	CLA	C3A-C2A-CAA-CBA
13	A	804	CLA	CAD-CBD-CGD-O2D
13	A	805	CLA	CAD-CBD-CGD-O2D
13	A	820	CLA	CAD-CBD-CGD-O2D
13	A	826	CLA	CAD-CBD-CGD-O2D
13	A	829	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
13	A	830	CLA	CAD-CBD-CGD-O2D
13	A	855	CLA	CAD-CBD-CGD-O2D
13	B	819	CLA	CAD-CBD-CGD-O2D
13	B	824	CLA	CAD-CBD-CGD-O2D
13	B	832	CLA	CAD-CBD-CGD-O2D
13	B	834	CLA	CAD-CBD-CGD-O2D
13	B	837	CLA	CAD-CBD-CGD-O2D
13	M	1202	CLA	CAD-CBD-CGD-O2D
13	J	1102	CLA	CAA-CBA-CGA-O2A
15	B	843	BCR	C22-C23-C24-C25
15	B	847	BCR	C6-C7-C8-C9
13	A	820	CLA	C4-C3-C5-C6
13	L	1003	CLA	C4-C3-C5-C6
13	L	1004	CLA	C4-C3-C5-C6
13	A	828	CLA	C16-C17-C18-C19
13	B	803	CLA	C16-C17-C18-C19
13	L	1002	CLA	C2-C3-C5-C6
13	A	825	CLA	CAA-CBA-CGA-O2A
15	A	847	BCR	C17-C18-C19-C20
15	B	844	BCR	C17-C18-C19-C20
13	B	820	CLA	C2C-C3C-CAC-CBC
13	J	1101	CLA	CAA-CBA-CGA-O2A
13	A	823	CLA	O2A-C1-C2-C3
13	A	835	CLA	CAA-CBA-CGA-O2A
13	A	844	CLA	CAA-CBA-CGA-O1A
13	L	1002	CLA	C16-C17-C18-C20
13	A	803	CLA	CHA-CBD-CGD-O1D
13	A	803	CLA	CHA-CBD-CGD-O2D
13	A	806	CLA	CHA-CBD-CGD-O1D
13	A	806	CLA	CHA-CBD-CGD-O2D
13	A	809	CLA	CHA-CBD-CGD-O2D
13	A	810	CLA	CHA-CBD-CGD-O1D
13	A	810	CLA	CHA-CBD-CGD-O2D
13	A	813	CLA	CHA-CBD-CGD-O1D
13	A	813	CLA	CHA-CBD-CGD-O2D
13	A	814	CLA	CHA-CBD-CGD-O2D
13	A	818	CLA	CHA-CBD-CGD-O1D
13	A	818	CLA	CHA-CBD-CGD-O2D
13	A	822	CLA	CHA-CBD-CGD-O2D
13	A	827	CLA	CHA-CBD-CGD-O2D
13	A	828	CLA	CHA-CBD-CGD-O1D
13	A	828	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
13	A	838	CLA	CHA-CBD-CGD-O2D
13	A	845	CLA	CHA-CBD-CGD-O1D
13	A	845	CLA	CHA-CBD-CGD-O2D
13	B	801	CLA	CHA-CBD-CGD-O1D
13	B	803	CLA	CHA-CBD-CGD-O2D
13	B	806	CLA	CHA-CBD-CGD-O2D
13	B	808	CLA	CHA-CBD-CGD-O2D
13	B	814	CLA	CHA-CBD-CGD-O1D
13	B	814	CLA	CHA-CBD-CGD-O2D
13	B	821	CLA	CHA-CBD-CGD-O1D
13	B	821	CLA	CHA-CBD-CGD-O2D
13	B	825	CLA	CHA-CBD-CGD-O1D
13	B	825	CLA	CHA-CBD-CGD-O2D
13	B	826	CLA	CHA-CBD-CGD-O1D
13	B	826	CLA	CHA-CBD-CGD-O2D
13	B	829	CLA	CHA-CBD-CGD-O1D
13	B	829	CLA	CHA-CBD-CGD-O2D
13	B	831	CLA	CHA-CBD-CGD-O1D
13	B	831	CLA	CHA-CBD-CGD-O2D
13	B	836	CLA	CHA-CBD-CGD-O1D
13	B	836	CLA	CHA-CBD-CGD-O2D
13	B	838	CLA	CHA-CBD-CGD-O2D
13	J	1102	CLA	CHA-CBD-CGD-O1D
13	L	1003	CLA	CHA-CBD-CGD-O1D
15	B	846	BCR	C9-C10-C11-C12
13	J	1102	CLA	CAA-CBA-CGA-O1A
13	B	811	CLA	C2-C3-C5-C6
13	B	802	CLA	C8-C10-C11-C12
13	A	806	CLA	CAA-CBA-CGA-O2A
13	B	808	CLA	CAA-CBA-CGA-O2A
13	A	821	CLA	C3-C5-C6-C7
13	B	803	CLA	C3-C5-C6-C7
13	A	832	CLA	CAA-CBA-CGA-O2A
13	A	828	CLA	C12-C13-C15-C16
13	L	1004	CLA	C2-C3-C5-C6
13	A	841	CLA	CAA-CBA-CGA-O2A
13	M	1202	CLA	CAA-CBA-CGA-O1A
13	A	828	CLA	C14-C13-C15-C16
16	A	854	LHG	O8-C23-C24-C25
13	A	834	CLA	CAA-CBA-CGA-O2A
13	B	825	CLA	CAA-CBA-CGA-O1A
13	B	826	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
18	B	848	LMG	C41-C42-C43-C44
13	A	807	CLA	C2A-CAA-CBA-CGA
13	B	825	CLA	C2A-CAA-CBA-CGA
14	A	846	PQN	C14-C13-C15-C16
13	B	813	CLA	CAA-CBA-CGA-O2A
13	A	825	CLA	CAA-CBA-CGA-O1A
13	A	828	CLA	CAA-CBA-CGA-O1A
13	J	1101	CLA	CAA-CBA-CGA-O1A
13	A	812	CLA	C1A-C2A-CAA-CBA
13	A	817	CLA	C1A-C2A-CAA-CBA
13	A	834	CLA	C1A-C2A-CAA-CBA
13	B	817	CLA	C1A-C2A-CAA-CBA
13	A	834	CLA	C16-C17-C18-C20
13	A	812	CLA	C2-C1-O2A-CGA
13	A	824	CLA	C2-C1-O2A-CGA
13	L	1002	CLA	C2-C1-O2A-CGA
13	A	806	CLA	C2A-CAA-CBA-CGA
13	B	803	CLA	C2A-CAA-CBA-CGA
16	A	853	LHG	C3-O3-P-O5
16	A	853	LHG	C4-O6-P-O5
13	A	835	CLA	CAA-CBA-CGA-O1A
15	B	841	BCR	C5-C6-C7-C8
15	L	1005	BCR	C23-C24-C25-C30
16	A	853	LHG	C10-C11-C12-C13
13	A	836	CLA	CAA-CBA-CGA-O2A
15	I	102	BCR	C10-C11-C12-C13
13	A	806	CLA	CAA-CBA-CGA-O1A
13	M	1202	CLA	CAA-CBA-CGA-O2A
13	A	809	CLA	CAD-CBD-CGD-O1D
13	A	823	CLA	CAD-CBD-CGD-O1D
13	A	823	CLA	C2-C3-C5-C6
13	A	828	CLA	CAD-CBD-CGD-O1D
13	A	831	CLA	CAD-CBD-CGD-O1D
13	A	841	CLA	C2-C3-C5-C6
13	B	801	CLA	CAD-CBD-CGD-O1D
13	B	809	CLA	CAD-CBD-CGD-O1D
13	B	817	CLA	CAD-CBD-CGD-O1D
13	J	1102	CLA	CAD-CBD-CGD-O1D
13	L	1003	CLA	CAD-CBD-CGD-O1D
13	B	808	CLA	CAA-CBA-CGA-O1A
13	A	827	CLA	C11-C12-C13-C14
13	B	839	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
13	B	804	CLA	CAA-CBA-CGA-O2A
13	A	836	CLA	CAA-CBA-CGA-O1A
13	A	838	CLA	C4-C3-C5-C6
13	B	817	CLA	C12-C13-C15-C16
13	B	831	CLA	C6-C7-C8-C10
13	A	841	CLA	CAA-CBA-CGA-O1A
13	B	821	CLA	CAA-CBA-CGA-O2A
13	A	801	CLA	CAA-CBA-CGA-O2A
13	A	830	CLA	CAA-CBA-CGA-O2A
13	B	837	CLA	C2-C1-O2A-CGA
15	A	848	BCR	C17-C18-C19-C20
15	A	852	BCR	C7-C8-C9-C10
15	A	851	BCR	C19-C20-C21-C22
13	A	820	CLA	CAA-CBA-CGA-O2A
13	B	824	CLA	CAA-CBA-CGA-O2A
13	A	834	CLA	CAA-CBA-CGA-O1A
13	B	804	CLA	CAA-CBA-CGA-O1A

There are no ring outliers.

123 monomers are involved in 1092 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	A	836	CLA	11	0
13	A	837	CLA	14	0
13	M	1201	CLA	17	0
16	A	854	LHG	2	0
13	A	812	CLA	7	0
13	B	808	CLA	14	0
13	B	813	CLA	10	0
13	B	822	CLA	21	0
13	A	844	CLA	3	0
13	A	819	CLA	16	0
13	B	832	CLA	12	0
15	B	842	BCR	4	0
13	A	826	CLA	17	0
13	B	839	CLA	7	0
13	A	832	CLA	21	0
16	A	853	LHG	10	0
13	B	834	CLA	7	0
13	B	824	CLA	20	0
15	L	1006	BCR	4	0
13	B	811	CLA	18	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	A	834	CLA	18	0
13	B	827	CLA	14	0
15	B	843	BCR	18	0
13	A	806	CLA	9	0
13	B	816	CLA	16	0
13	A	830	CLA	14	0
15	B	850	BCR	6	0
15	F	1302	BCR	13	0
13	L	1002	CLA	5	0
13	A	808	CLA	17	0
15	A	850	BCR	4	0
15	J	1104	BCR	4	0
13	A	839	CLA	17	0
14	B	840	PQN	7	0
13	A	831	CLA	11	0
15	A	851	BCR	3	0
13	A	802	CLA	12	0
13	B	826	CLA	19	0
13	A	843	CLA	10	0
13	B	803	CLA	16	0
13	A	801	CLA	8	0
13	A	811	CLA	14	0
13	B	802	CLA	18	0
13	F	1301	CLA	5	0
15	M	1203	BCR	13	0
13	B	817	CLA	12	0
13	A	823	CLA	13	0
13	A	817	CLA	9	0
13	J	1101	CLA	13	0
13	A	816	CLA	3	0
13	L	1003	CLA	16	0
16	X	101	LHG	1	0
15	B	846	BCR	7	0
13	B	801	CLA	13	0
15	J	1105	BCR	7	0
13	J	1102	CLA	4	0
13	A	842	CLA	22	0
13	B	818	CLA	4	0
13	B	837	CLA	8	0
13	B	820	CLA	12	0
13	A	818	CLA	11	0
13	A	815	CLA	7	0

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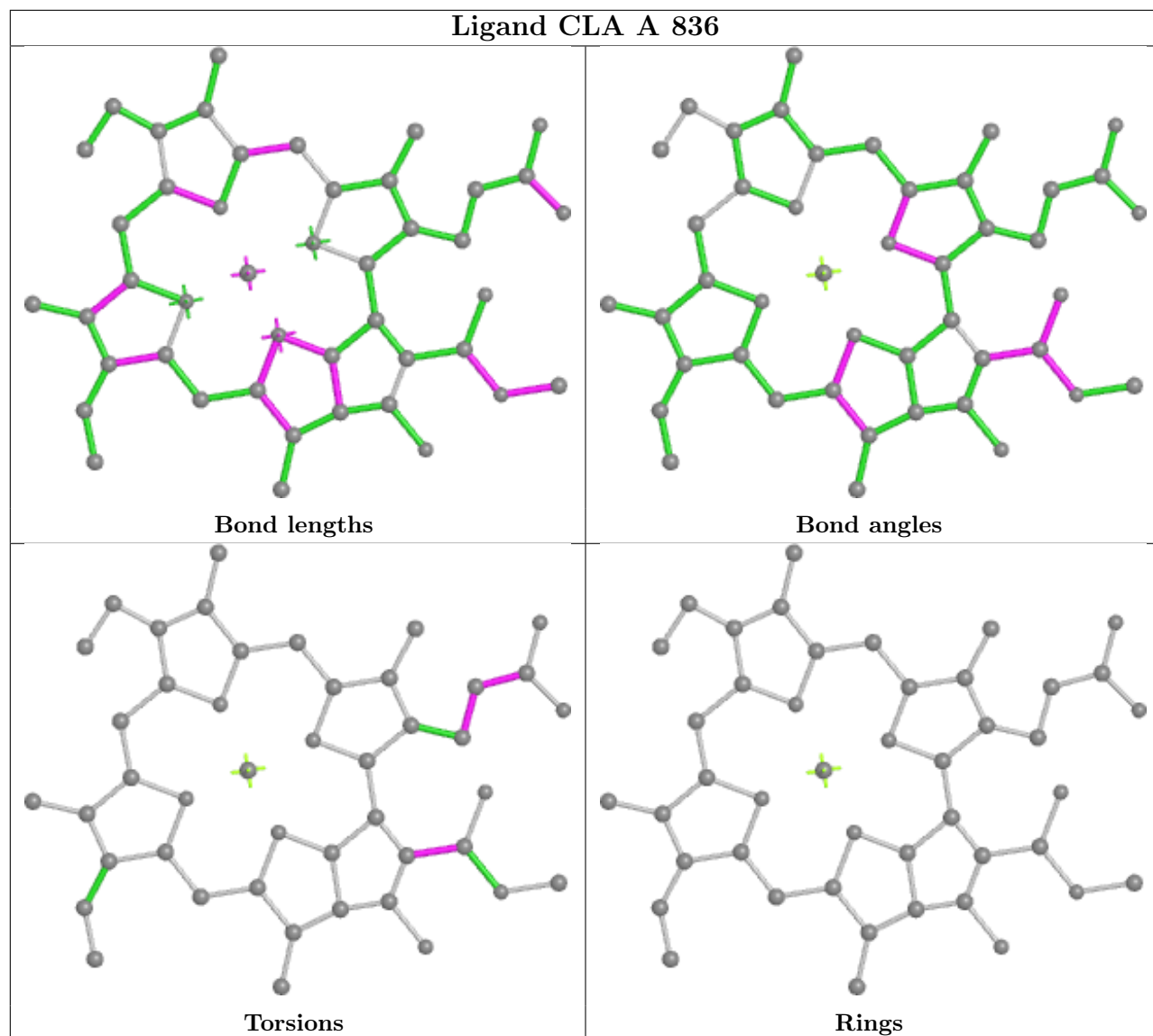
Mol	Chain	Res	Type	Clashes	Symm-Clashes
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13	A	805	CLA	13	0
15	B	844	BCR	6	0
14	A	846	PQN	7	0
15	B	845	BCR	9	0
13	A	824	CLA	8	0
18	B	848	LMG	18	0
13	A	814	CLA	8	0
13	B	828	CLA	6	0
13	B	823	CLA	8	0
13	A	820	CLA	10	0
15	B	847	BCR	12	0
13	B	807	CLA	12	0
13	A	813	CLA	19	0
13	L	1004	CLA	7	0
13	B	804	CLA	17	0
15	A	847	BCR	5	0
13	B	819	CLA	1	0
13	M	1202	CLA	1	0
13	B	835	CLA	16	0
13	B	805	CLA	9	0
13	A	807	CLA	13	0
13	X	102	CLA	5	0
15	A	848	BCR	5	0
15	B	841	BCR	5	0
13	B	815	CLA	15	0
15	I	102	BCR	11	0
13	A	810	CLA	8	0
13	A	845	CLA	11	0
13	B	814	CLA	10	0
13	A	825	CLA	22	0
13	B	806	CLA	15	0
13	A	838	CLA	14	0
13	A	804	CLA	10	0
13	I	101	CLA	15	0
13	A	855	CLA	2	0
15	L	1005	BCR	12	0
13	B	825	CLA	18	0
13	A	835	CLA	8	0
13	B	821	CLA	13	0
15	A	852	BCR	19	0
13	A	821	CLA	12	0

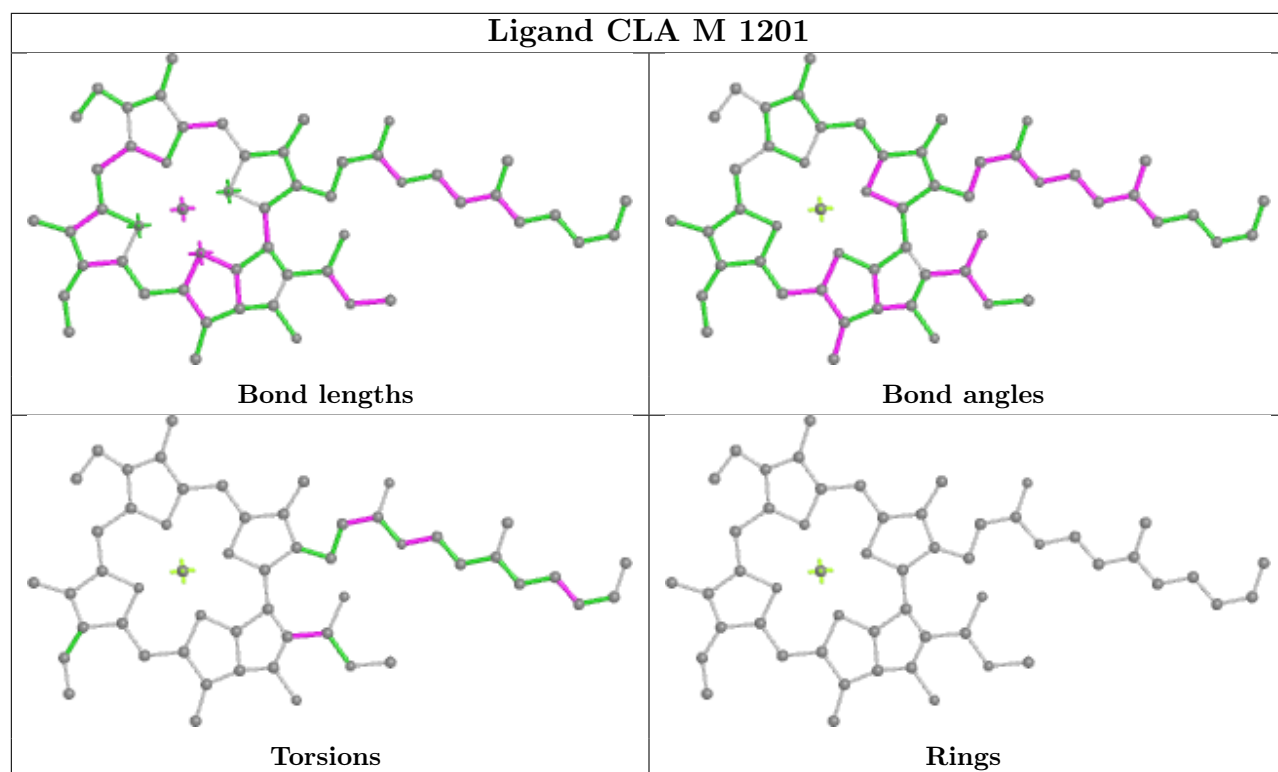
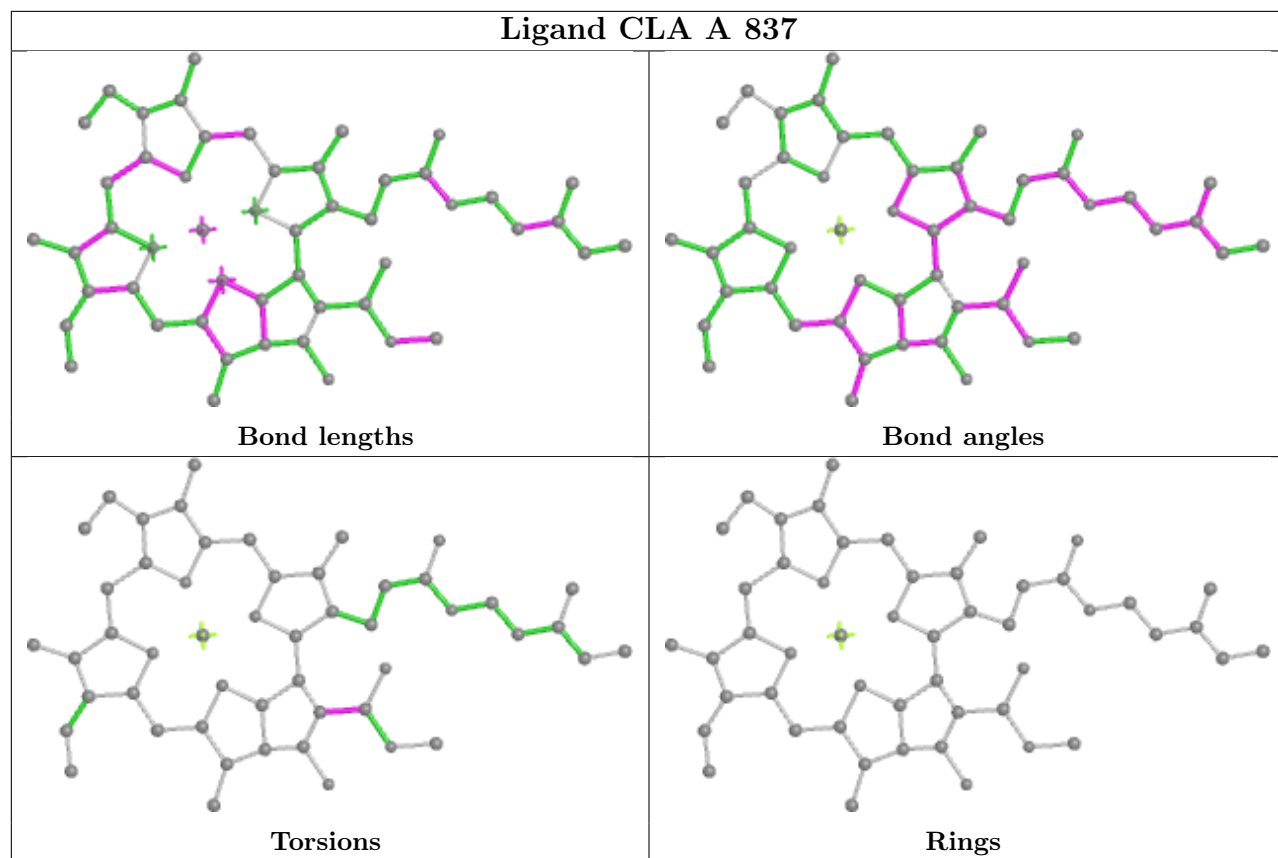
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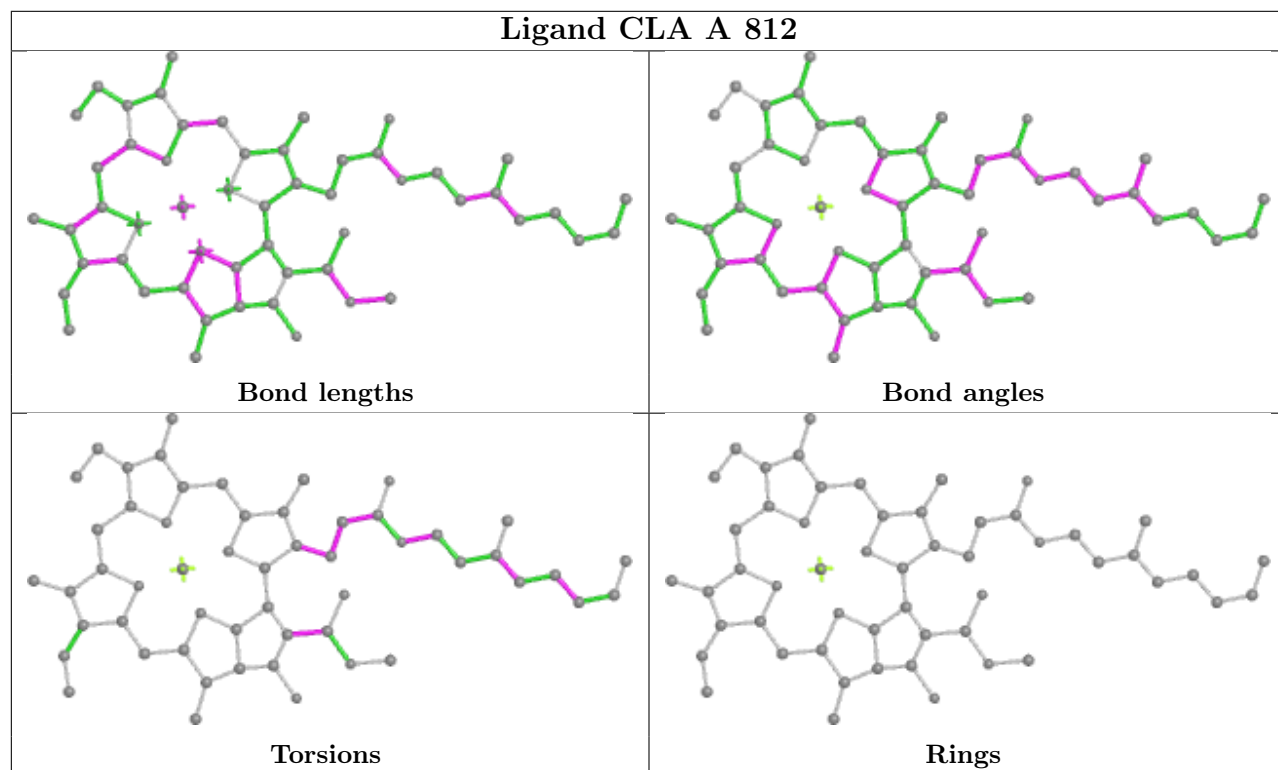
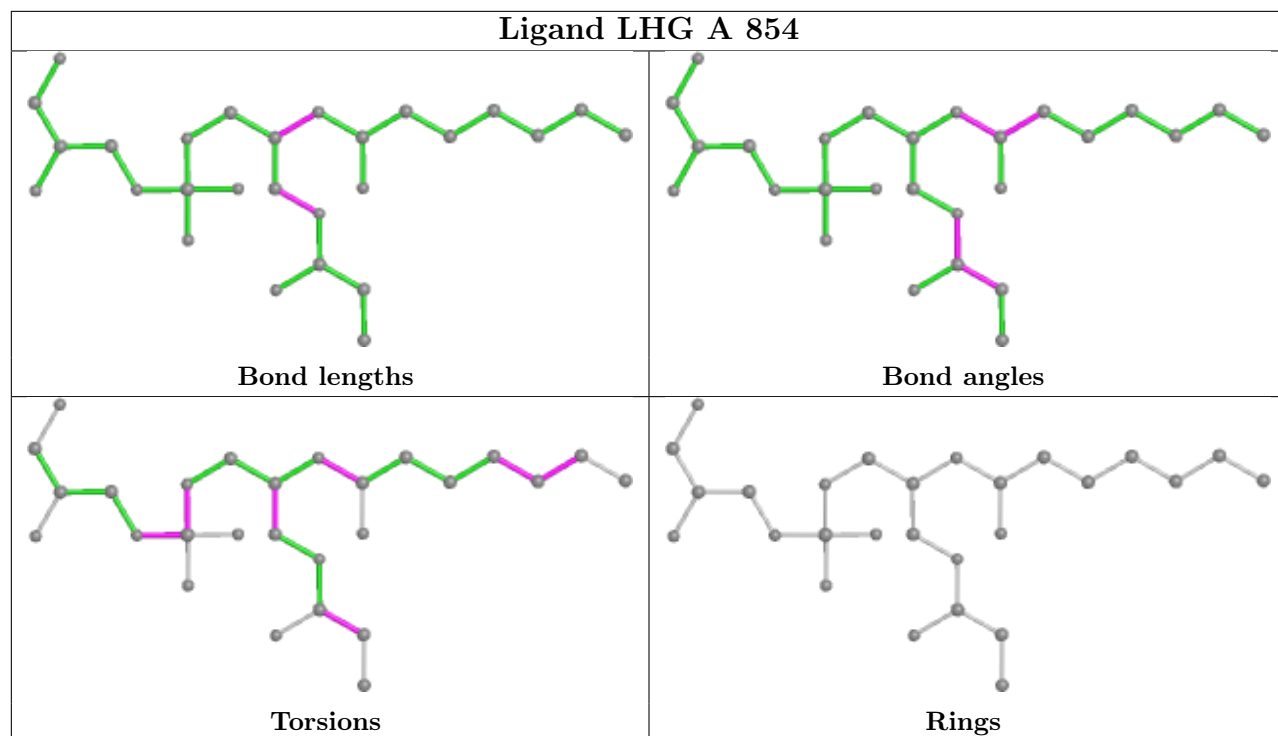
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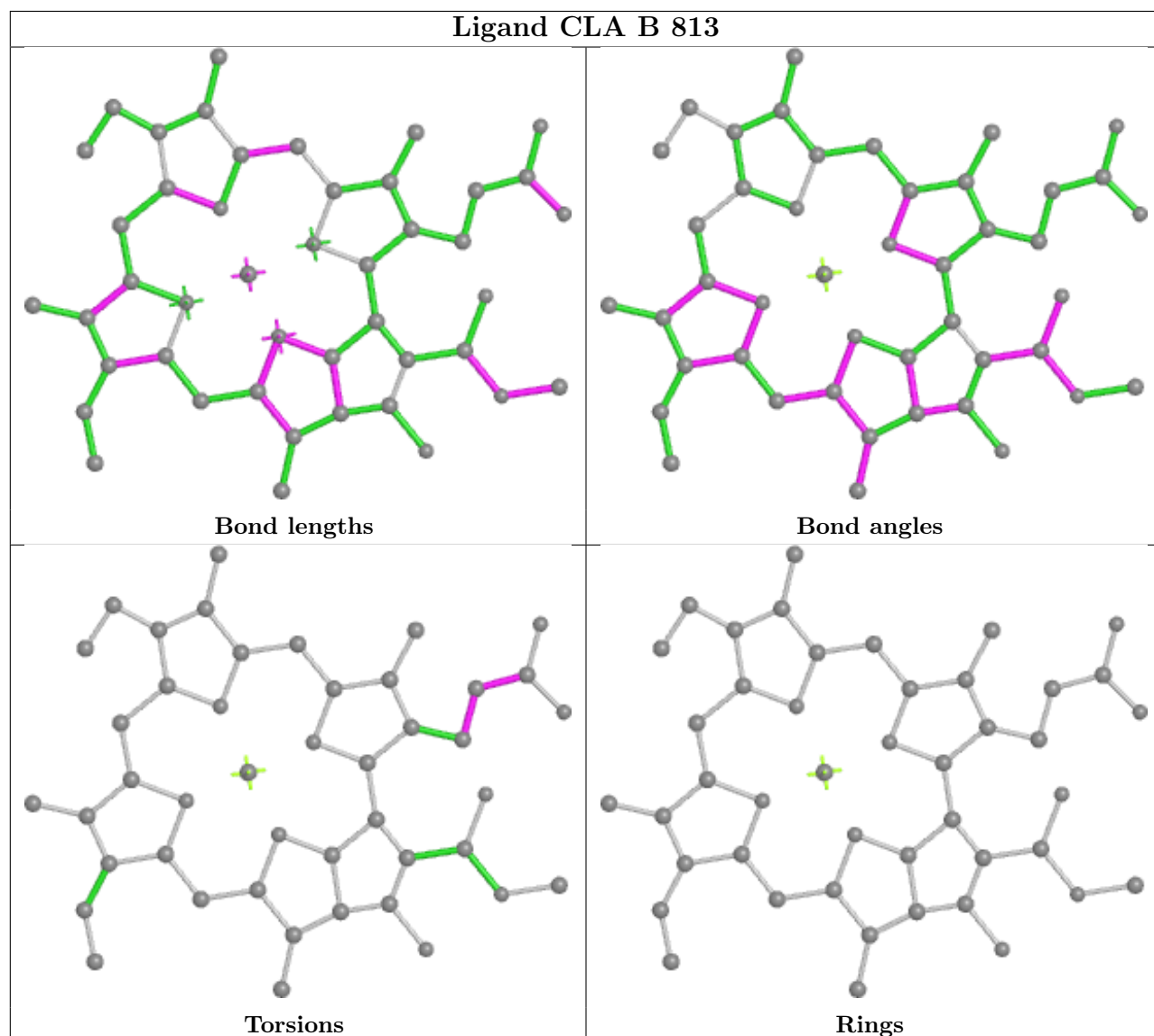
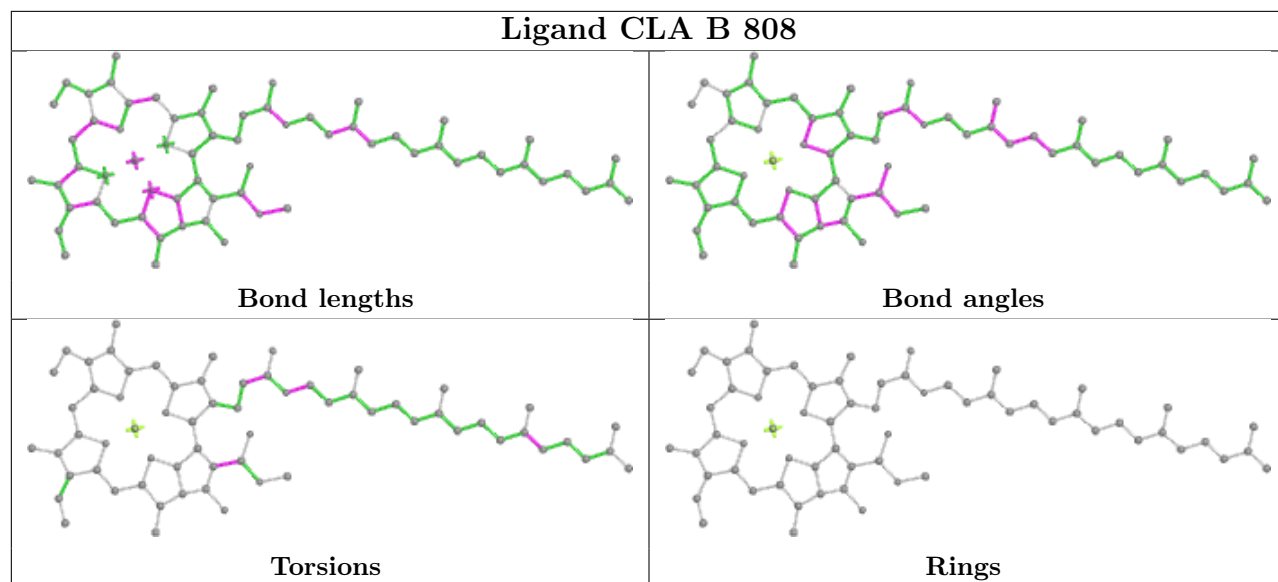
Mol	Chain	Res	Type	Clashes	Symm-Clashes
15	B	849	BCR	16	0
13	B	809	CLA	8	0
13	B	833	CLA	3	0
13	A	822	CLA	7	0
13	A	833	CLA	19	0
13	A	840	CLA	16	0
13	A	841	CLA	6	0
13	B	812	CLA	15	0
13	B	829	CLA	7	0
13	B	838	CLA	18	0
15	A	849	BCR	4	0
13	A	829	CLA	10	0
13	A	828	CLA	16	0
13	B	810	CLA	5	0
13	B	831	CLA	12	0
13	A	803	CLA	27	0
13	A	809	CLA	16	0
13	B	836	CLA	10	0
13	B	830	CLA	24	0

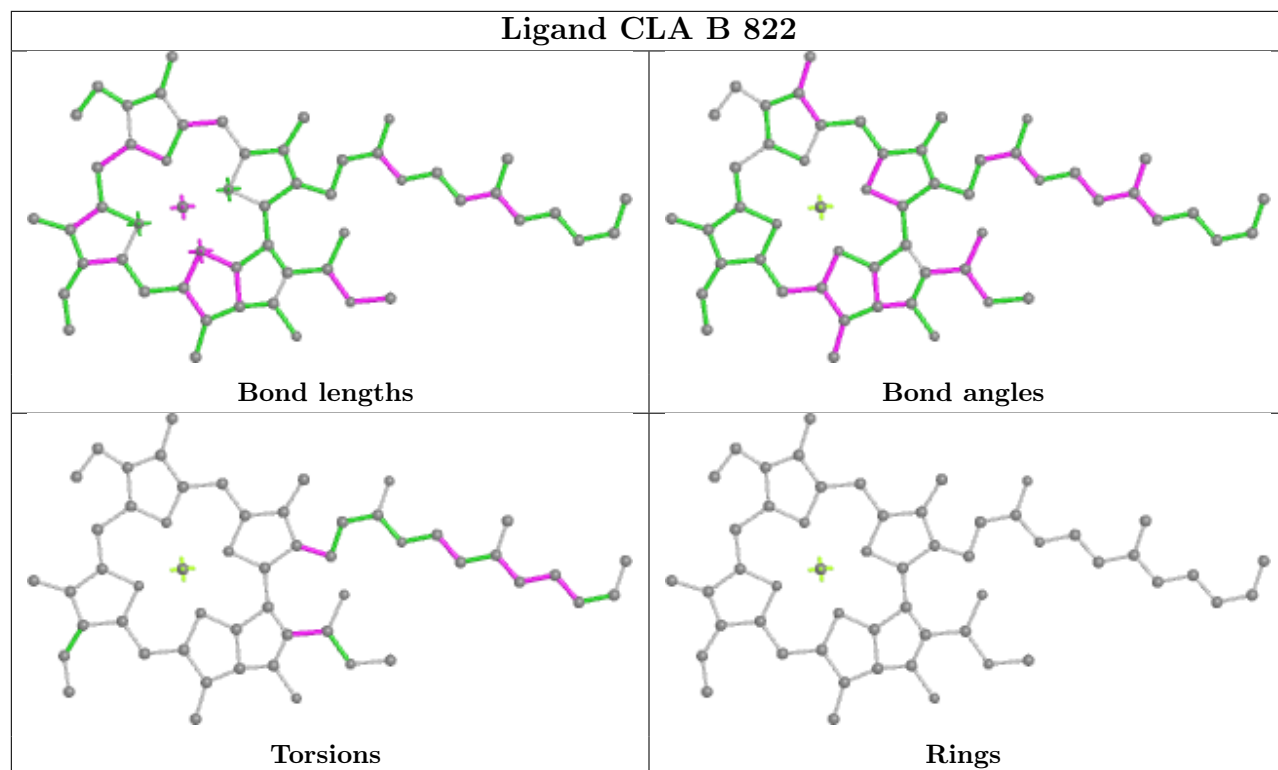
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

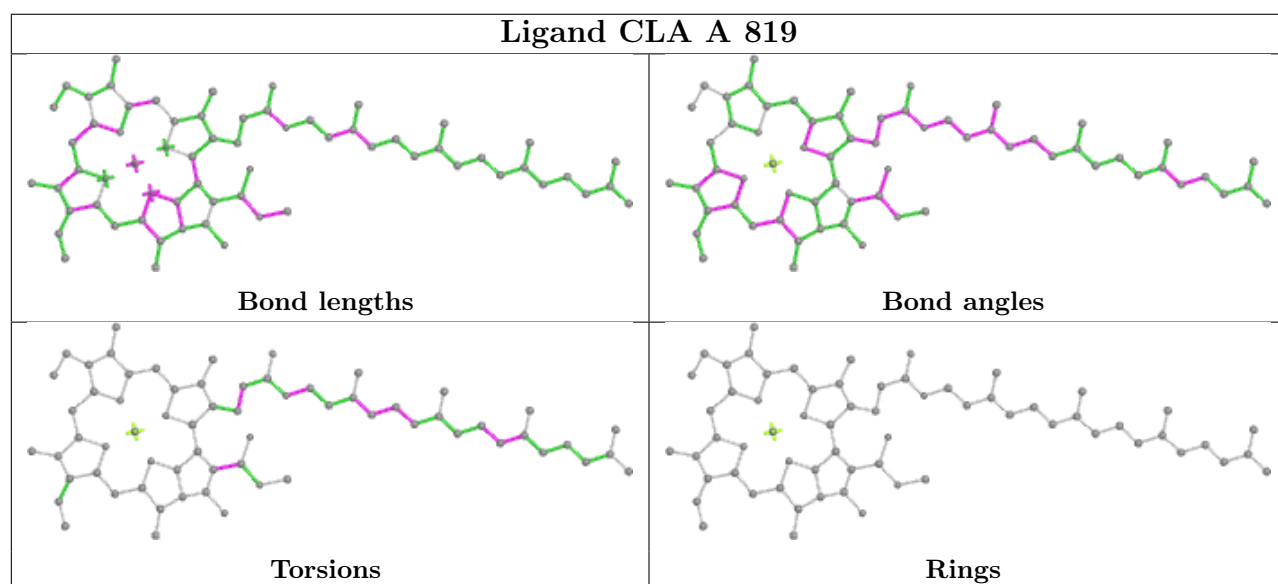
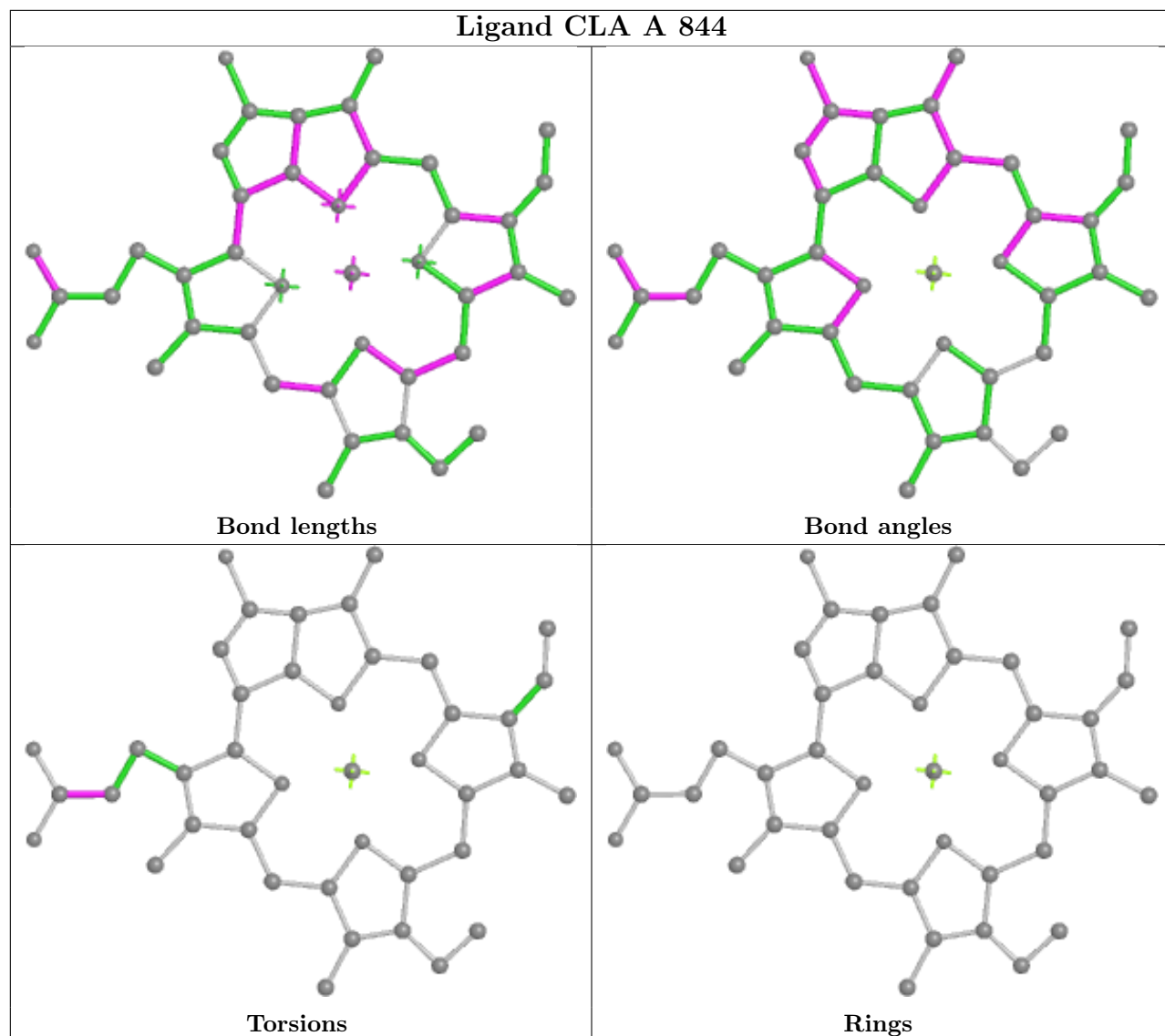


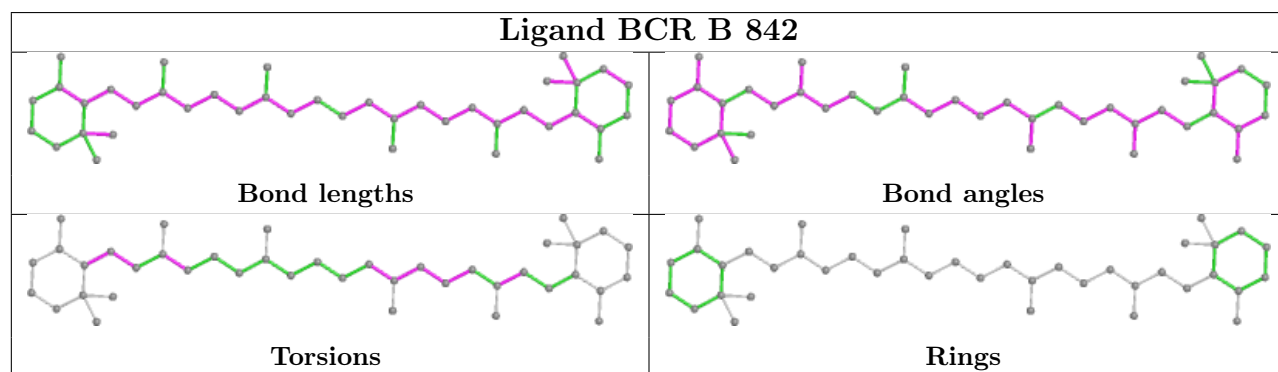
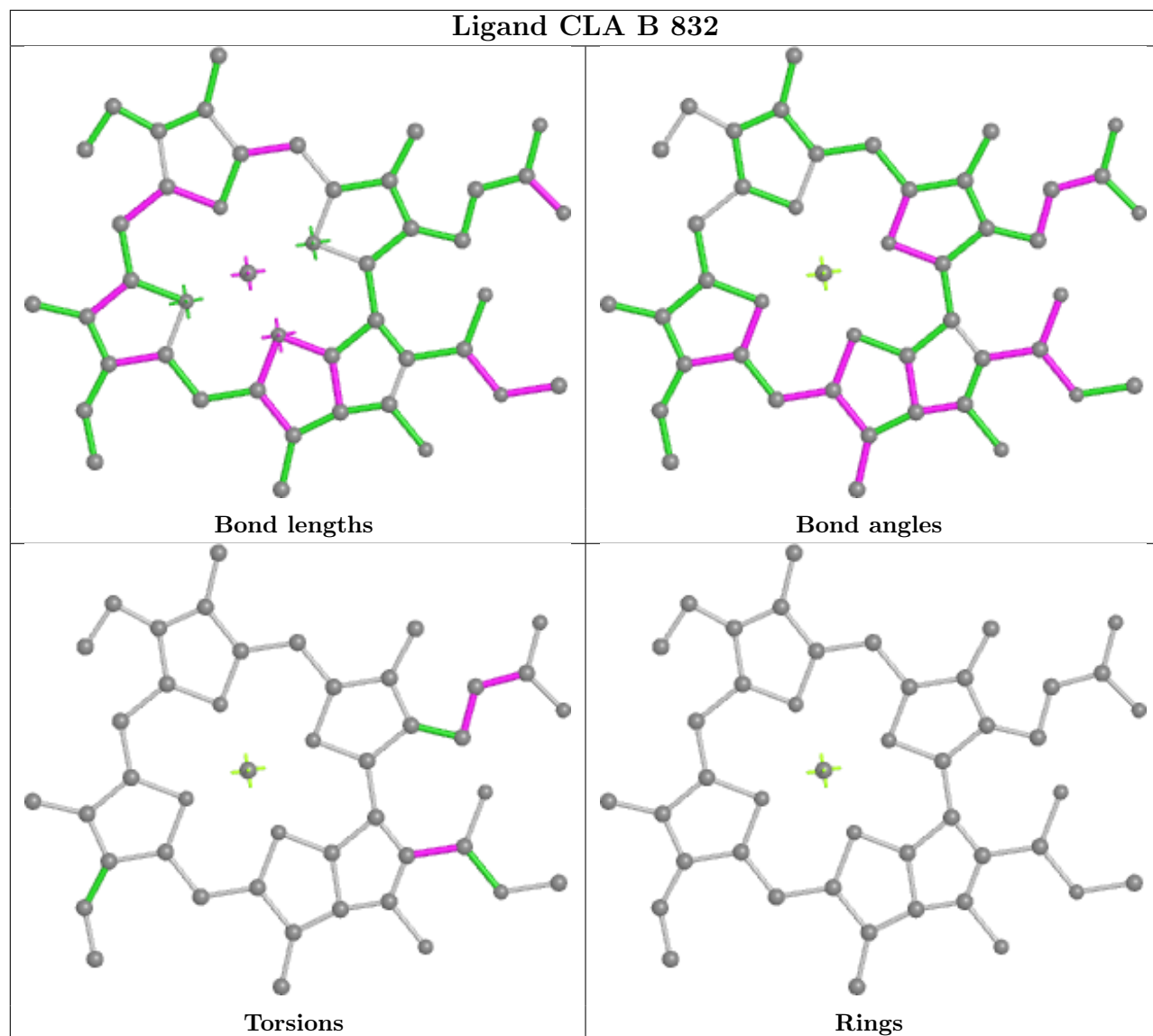


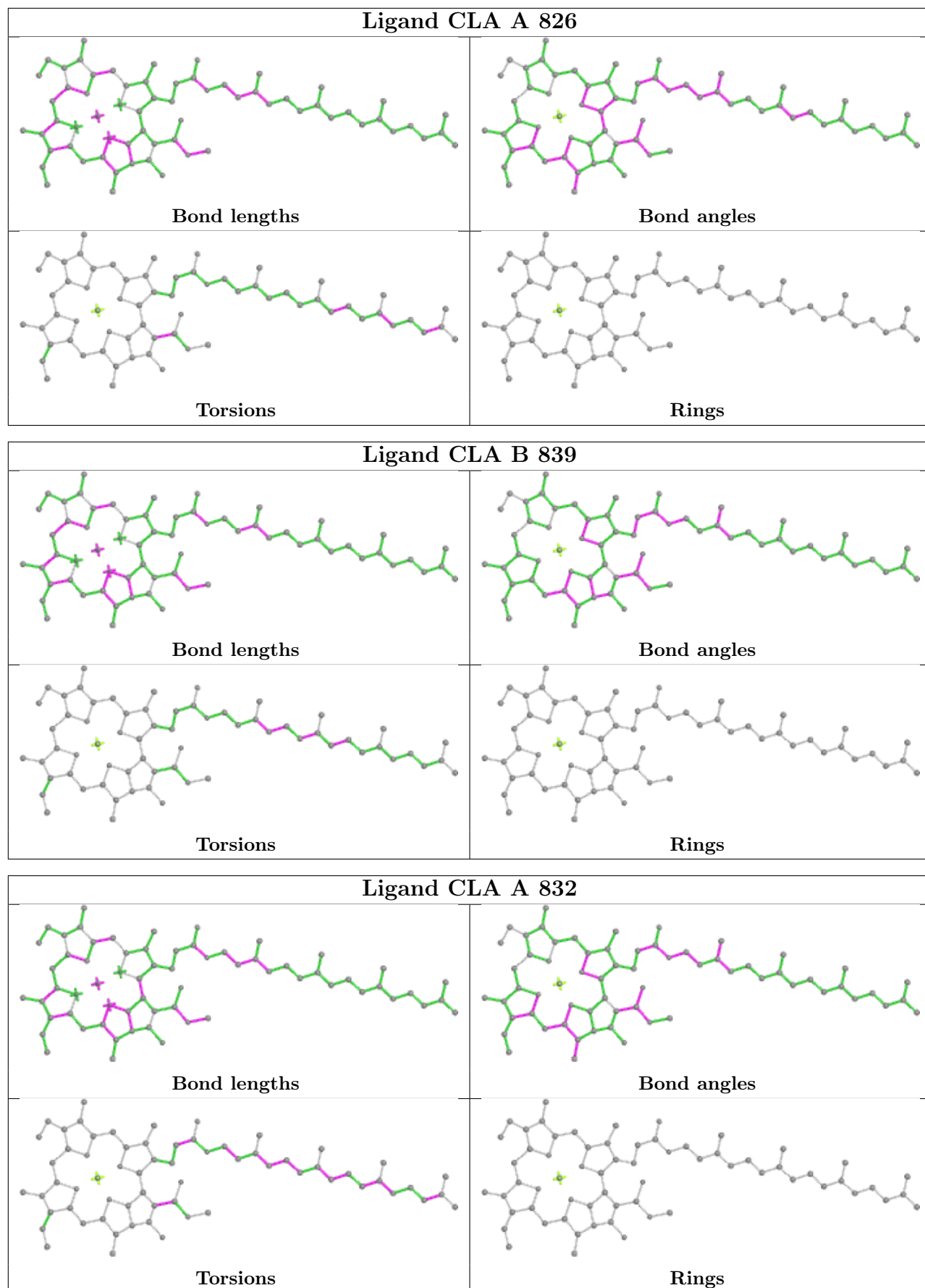


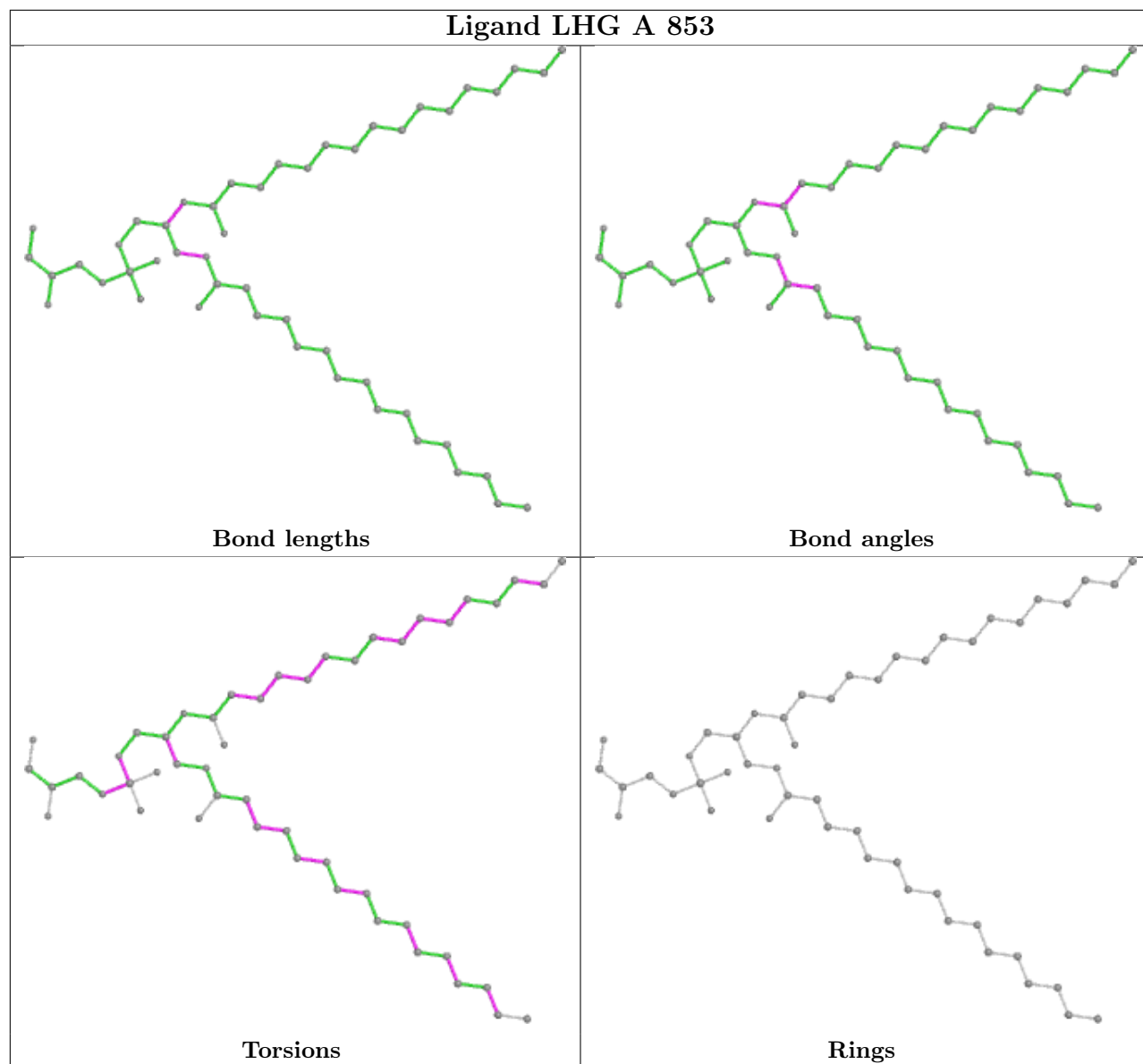


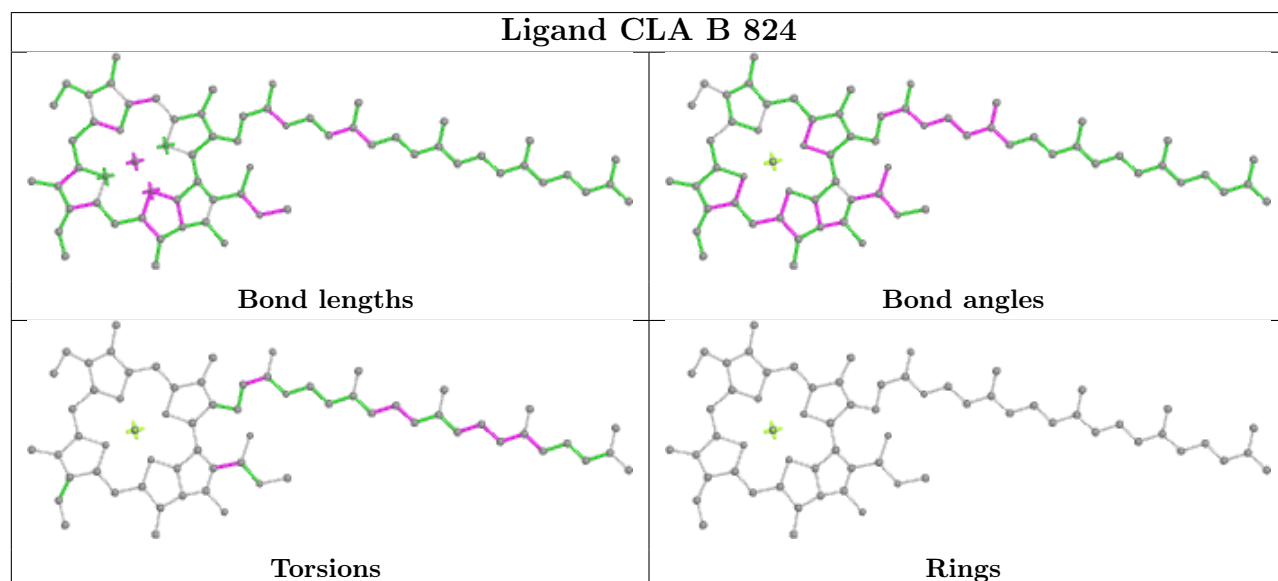
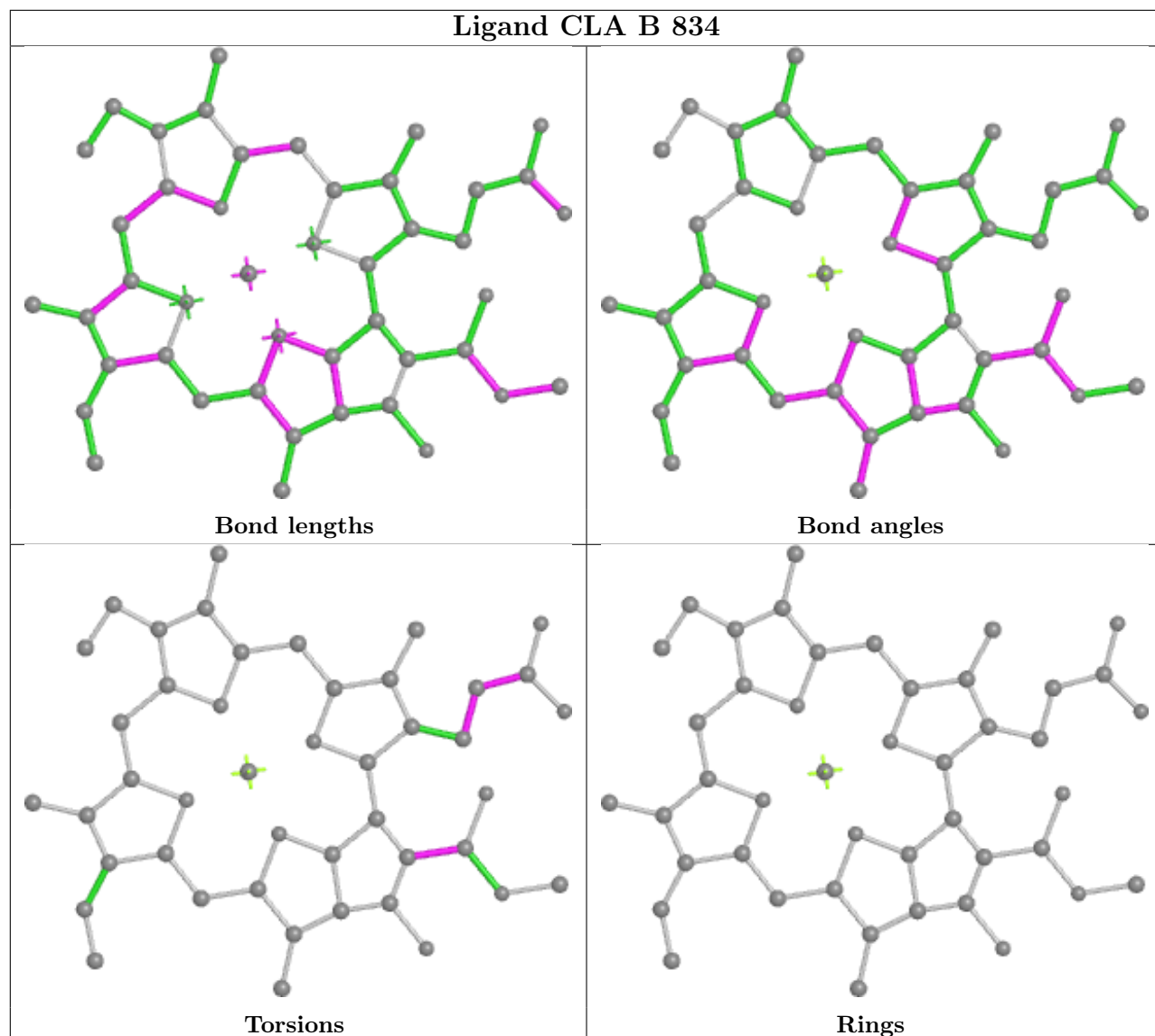


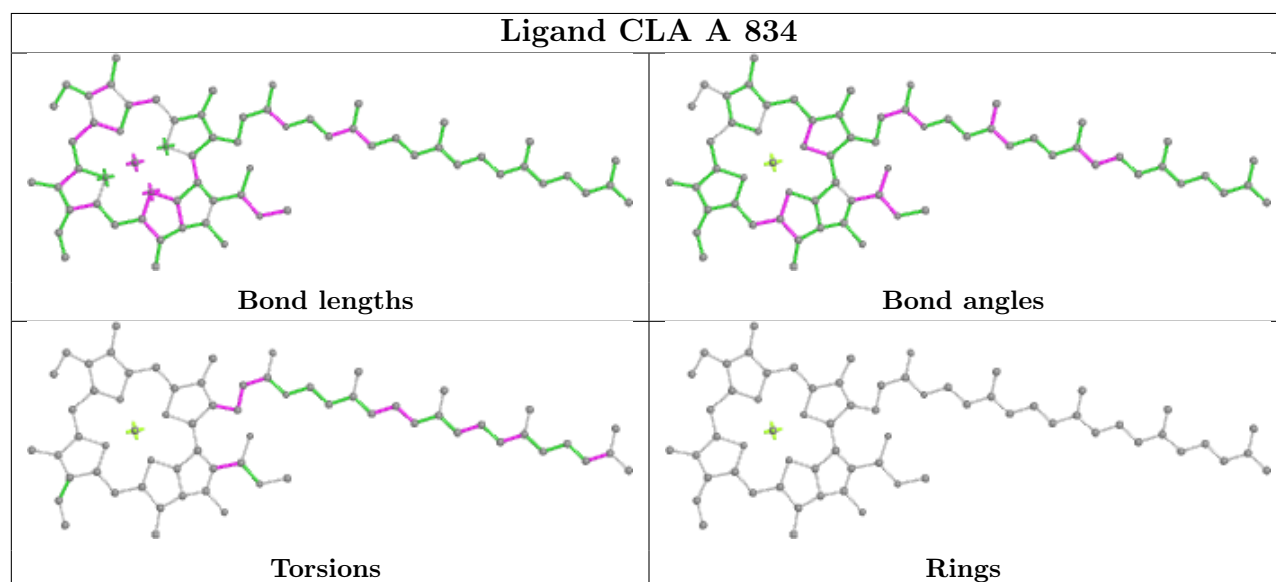
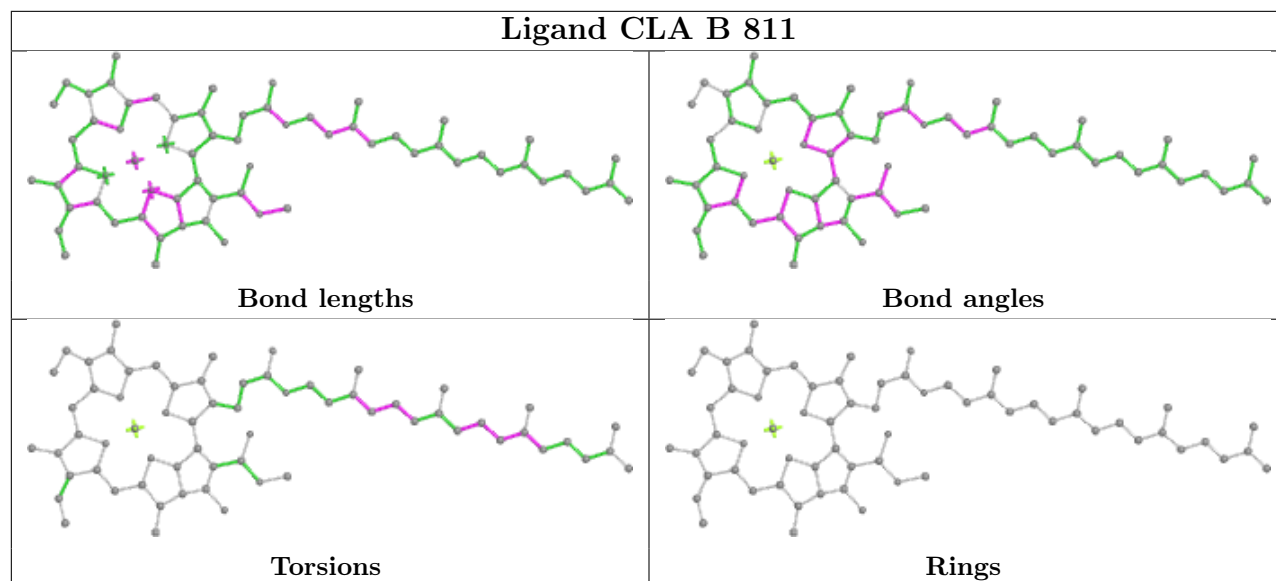
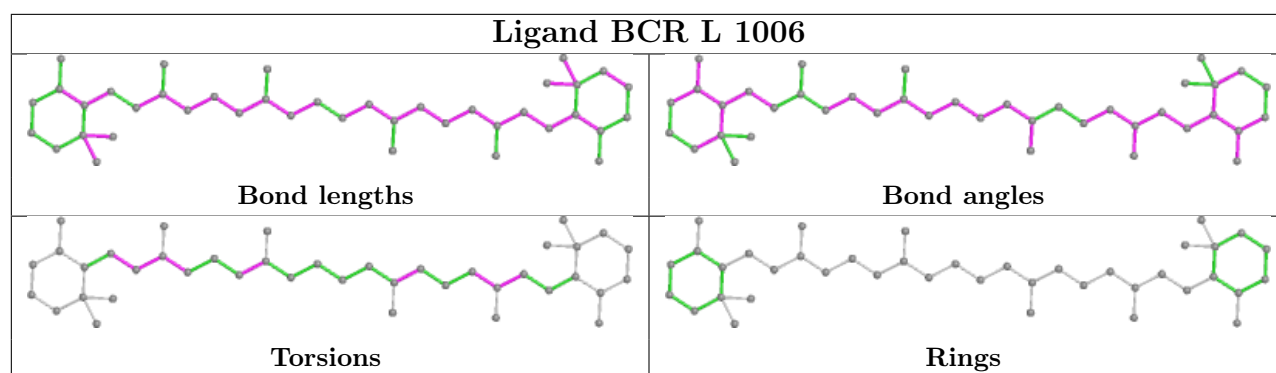


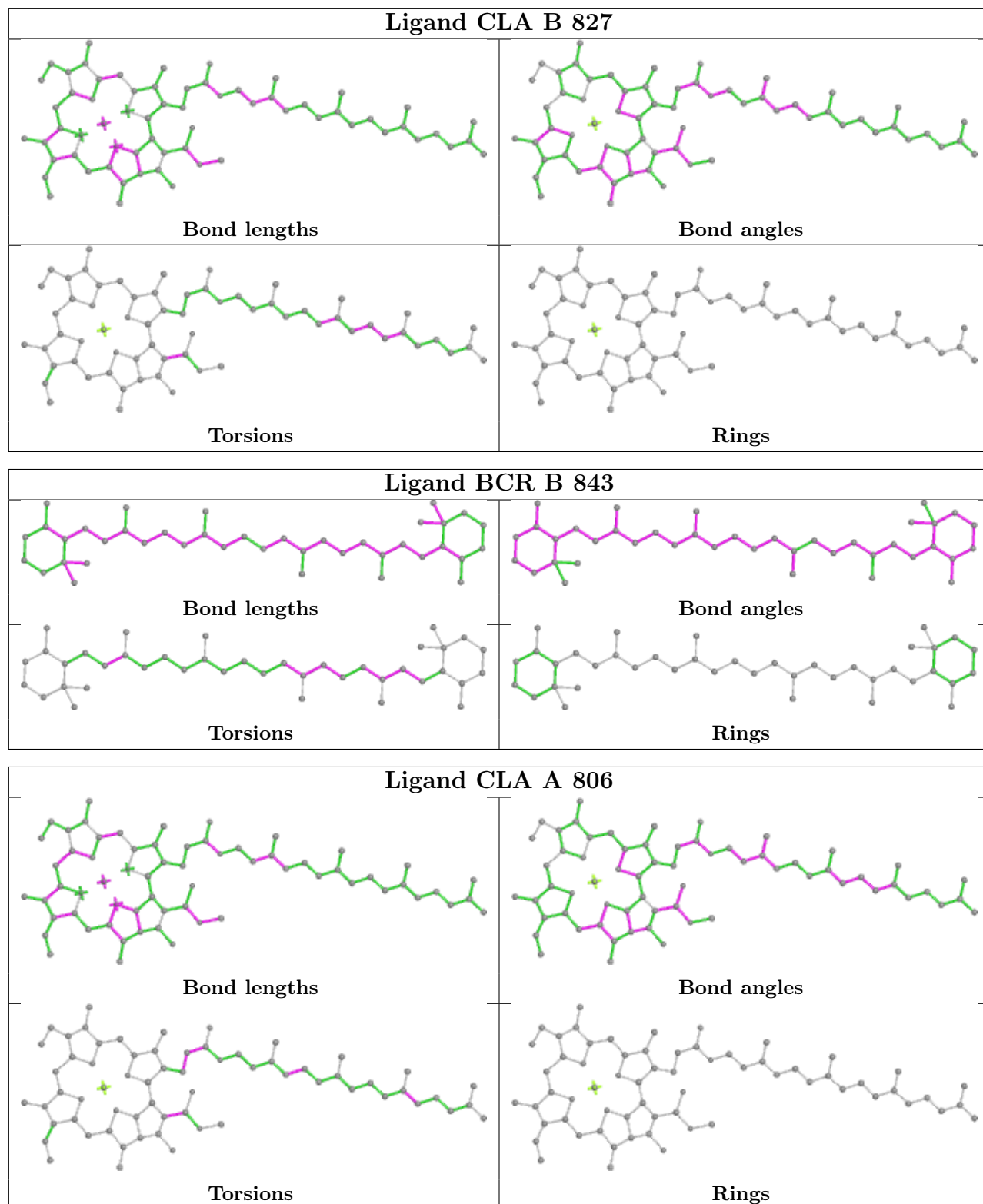


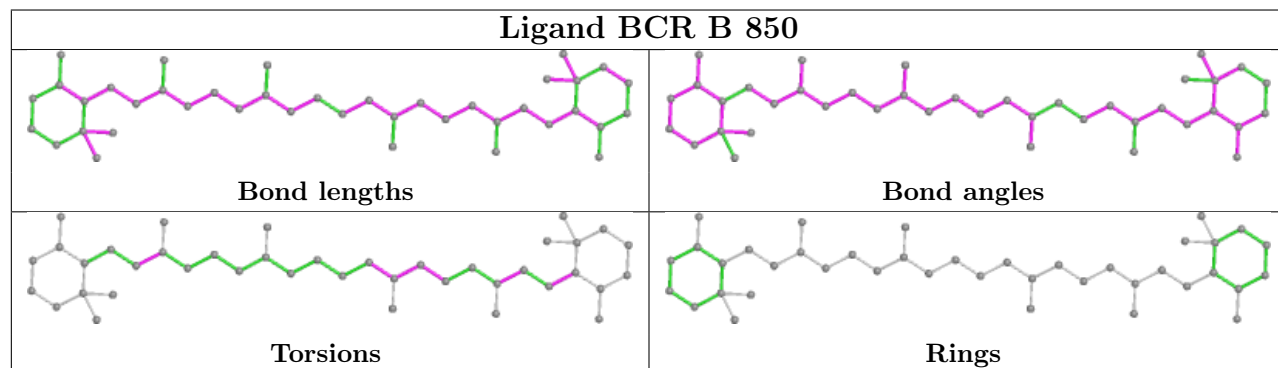
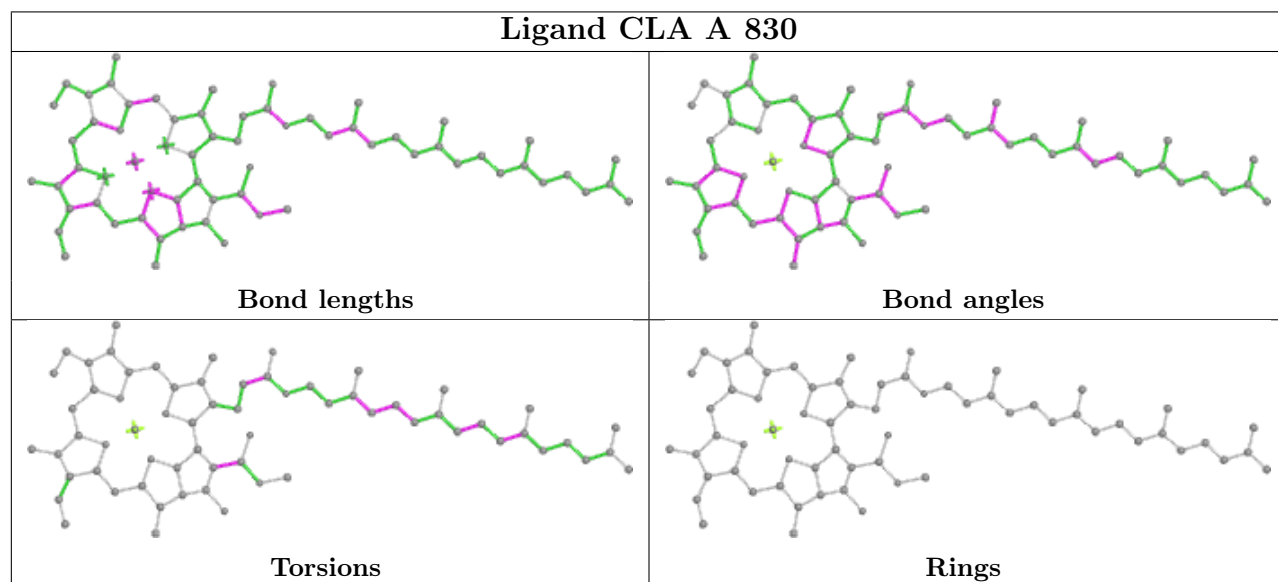
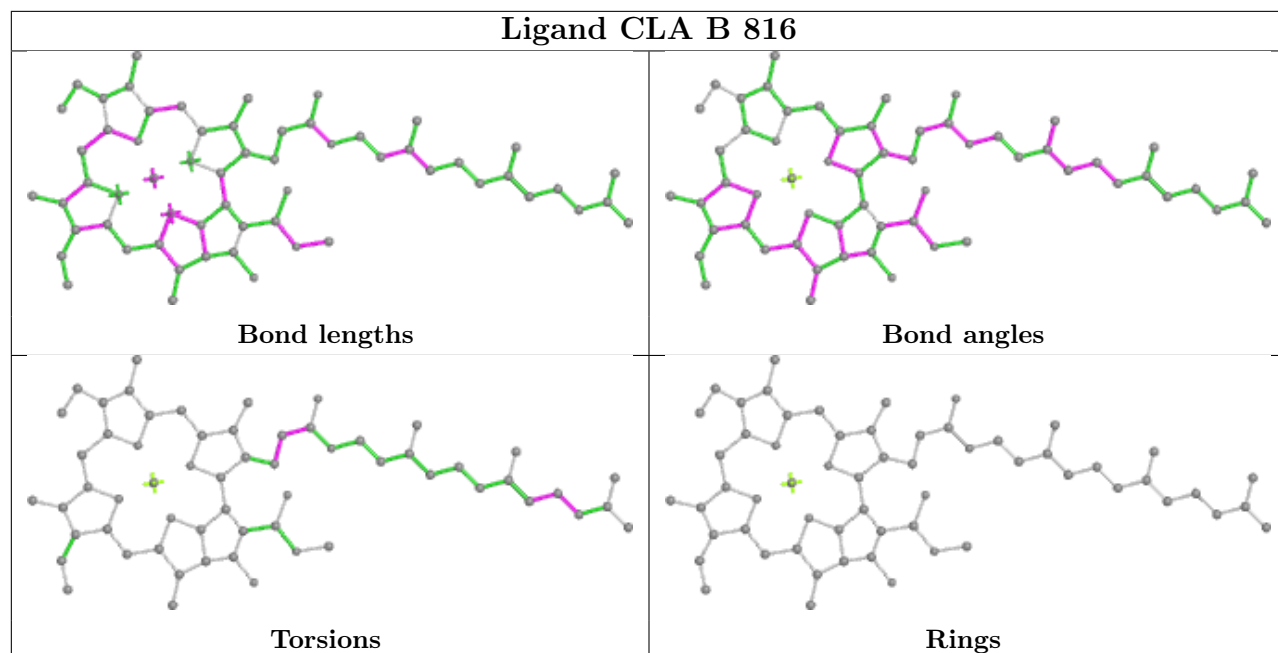


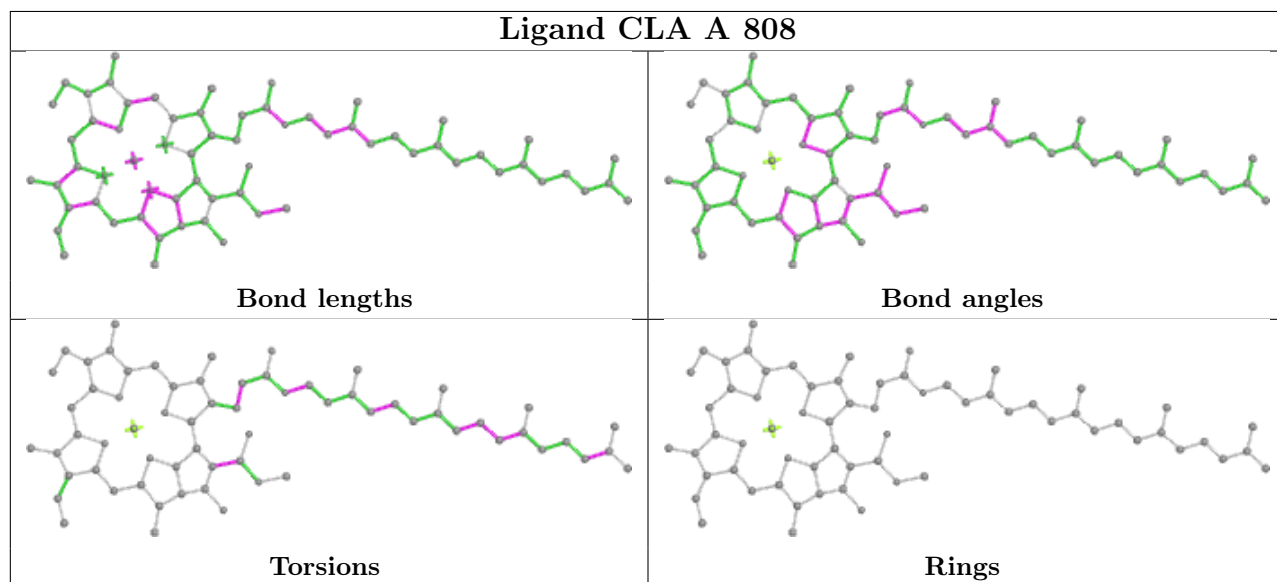
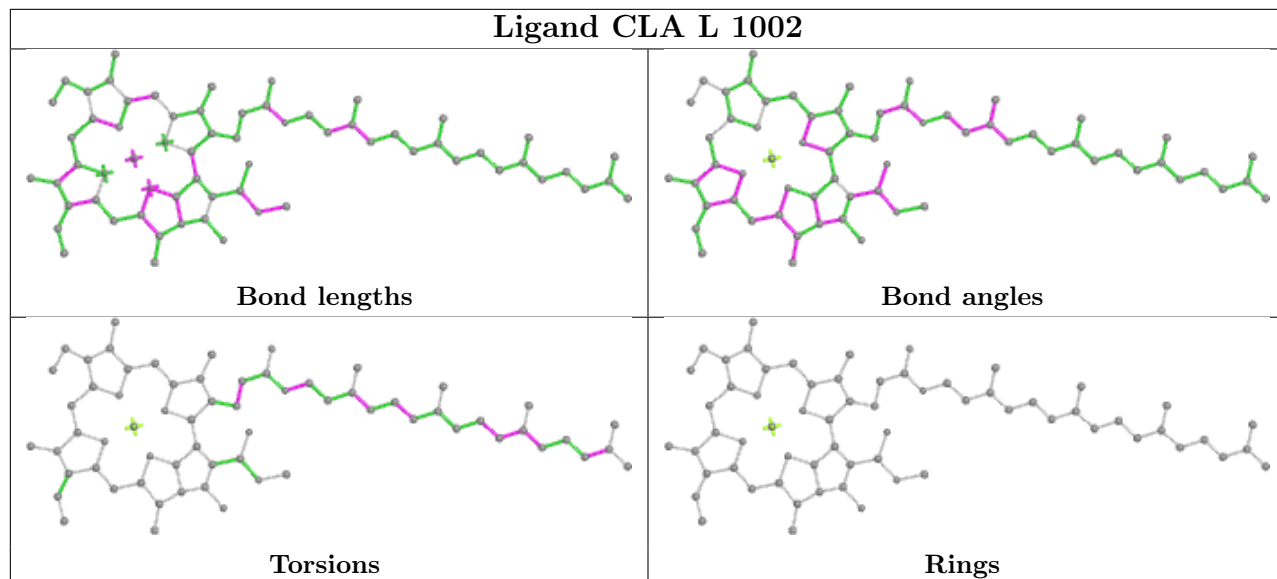
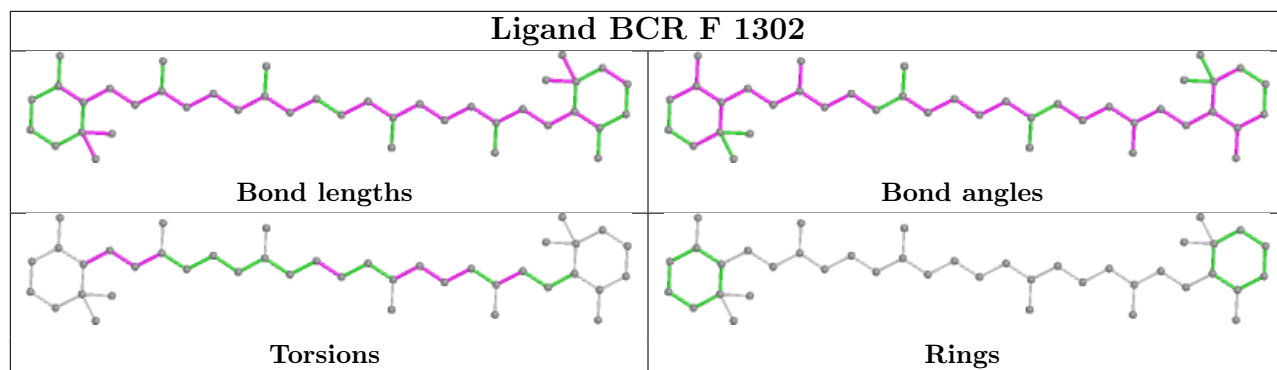


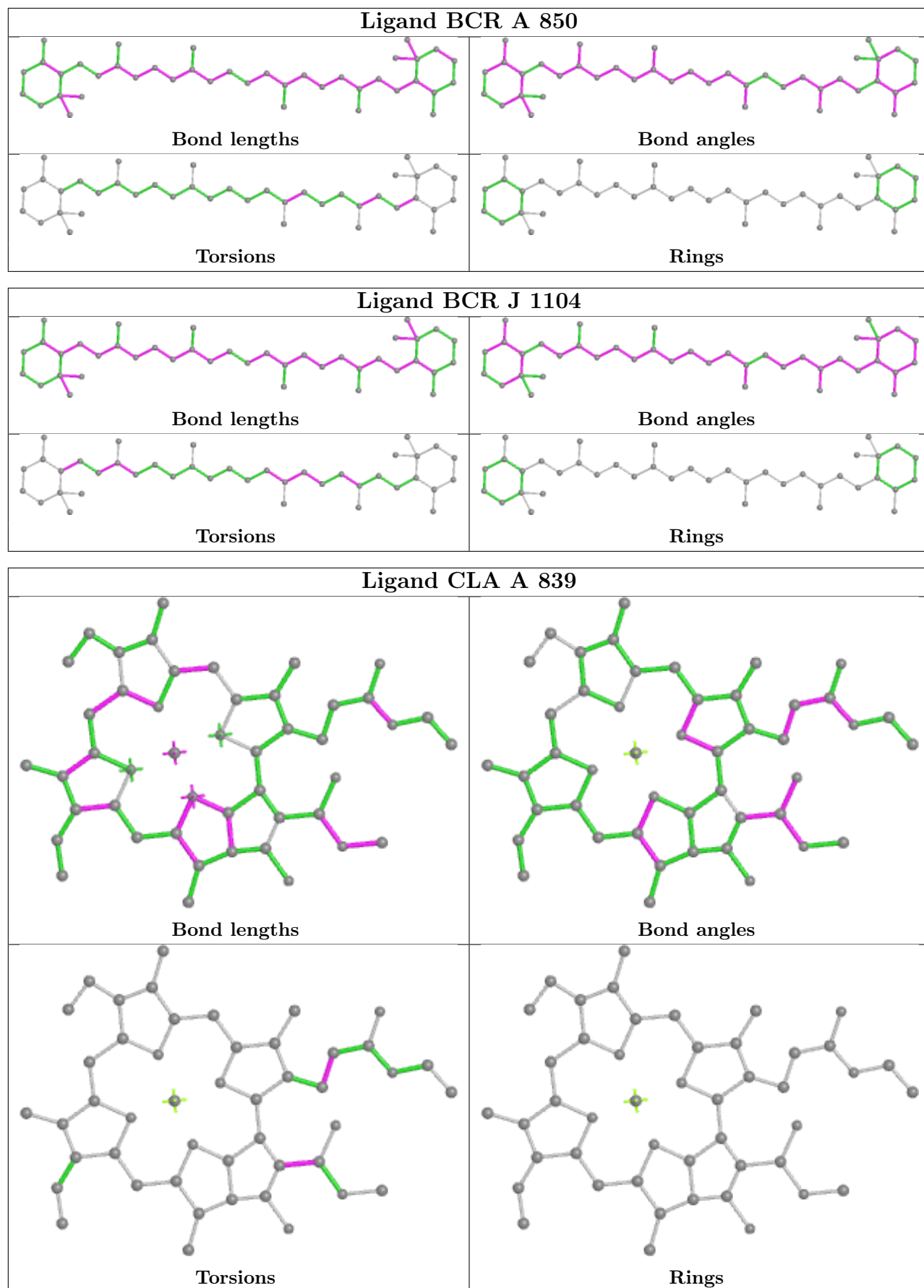


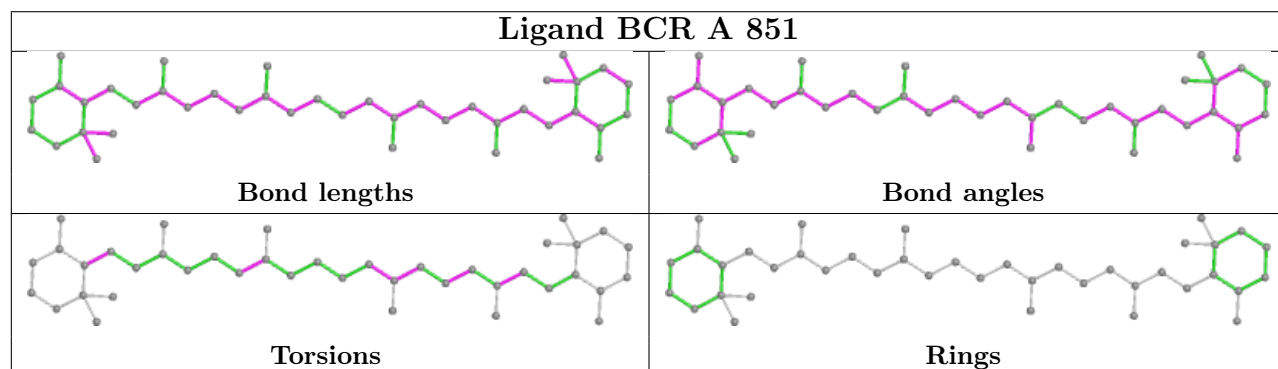
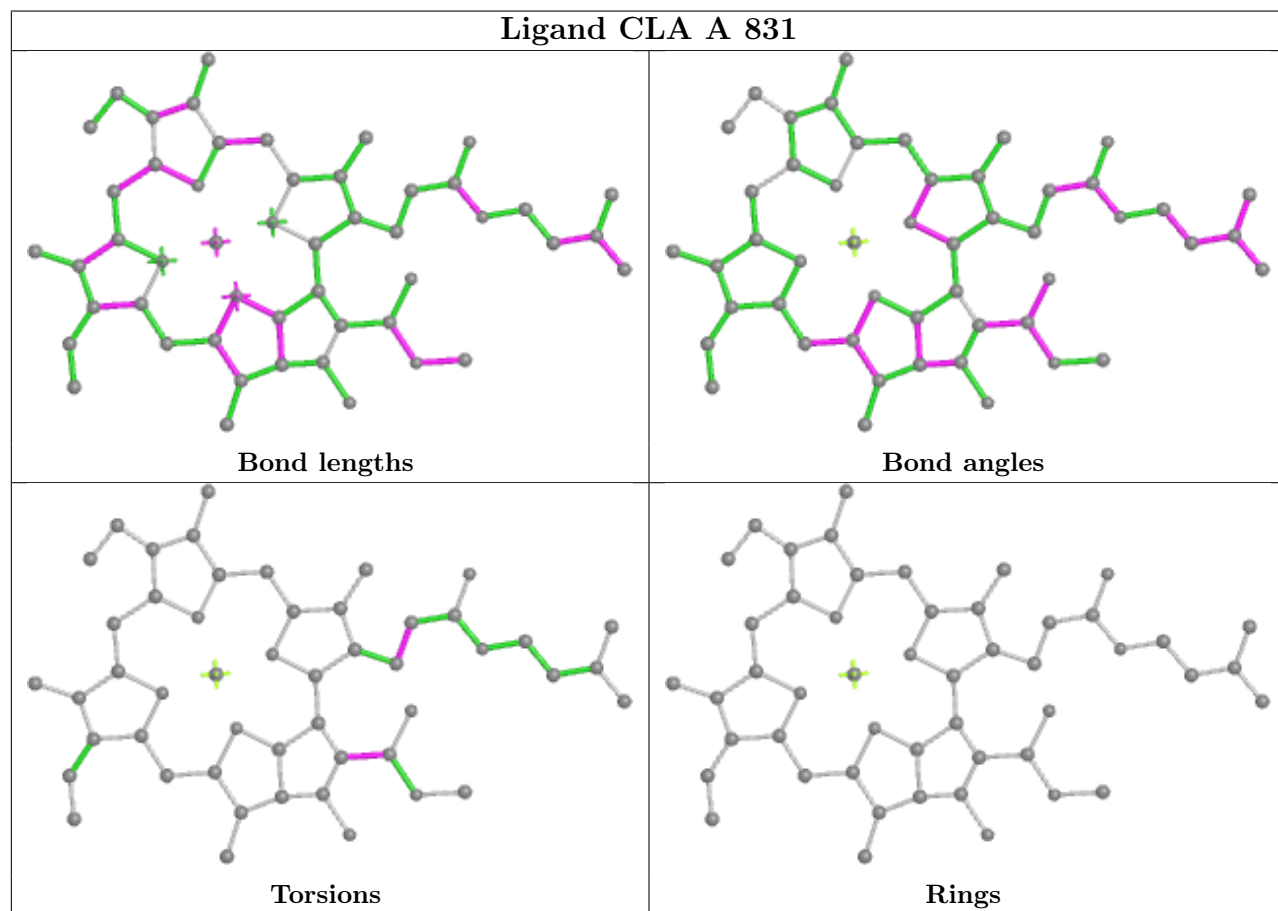
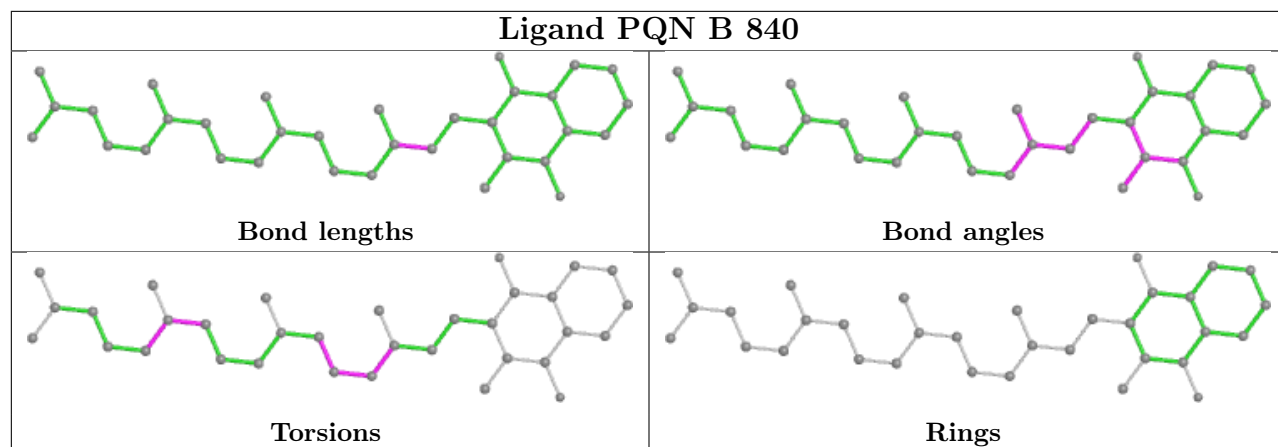


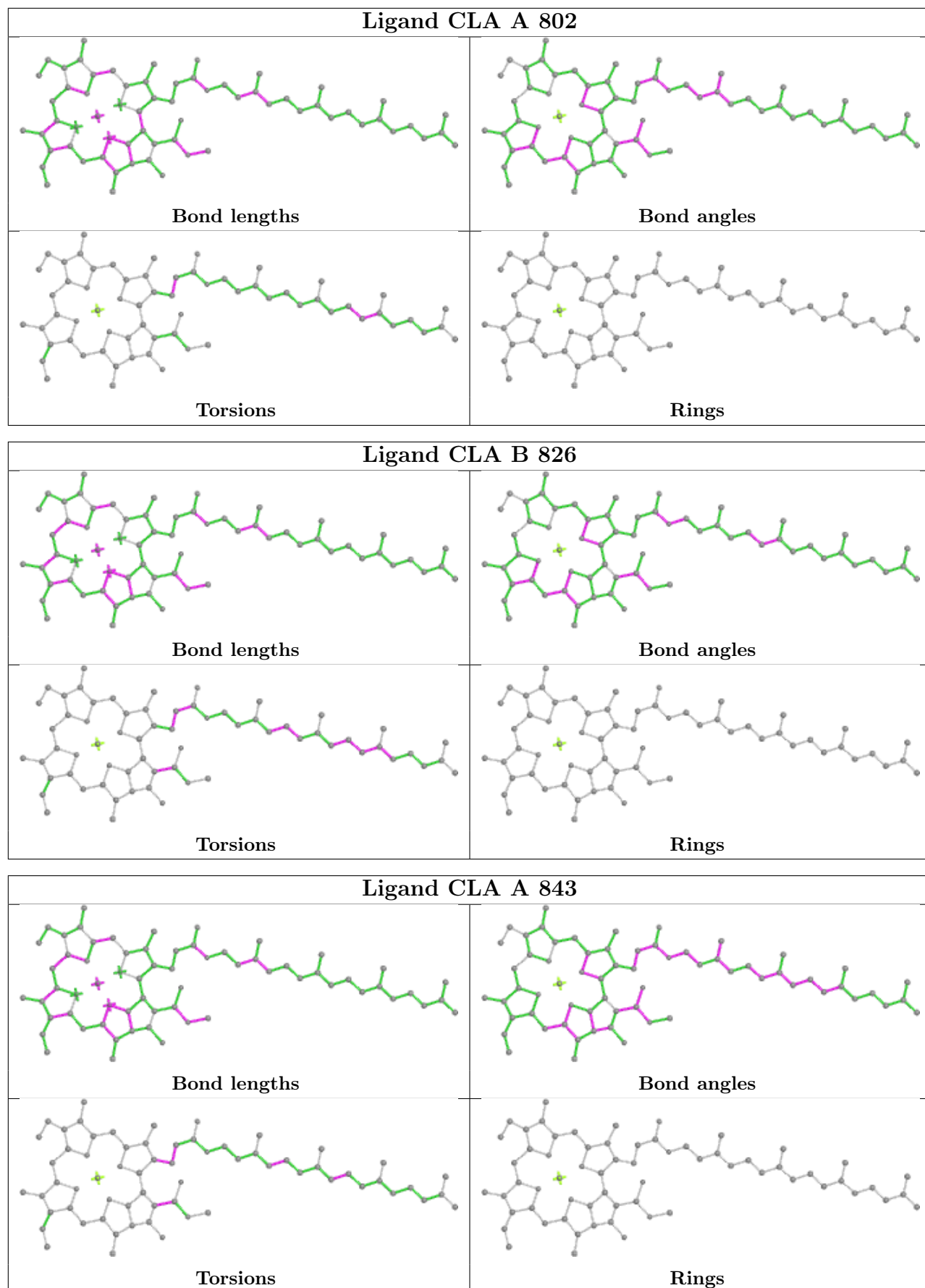


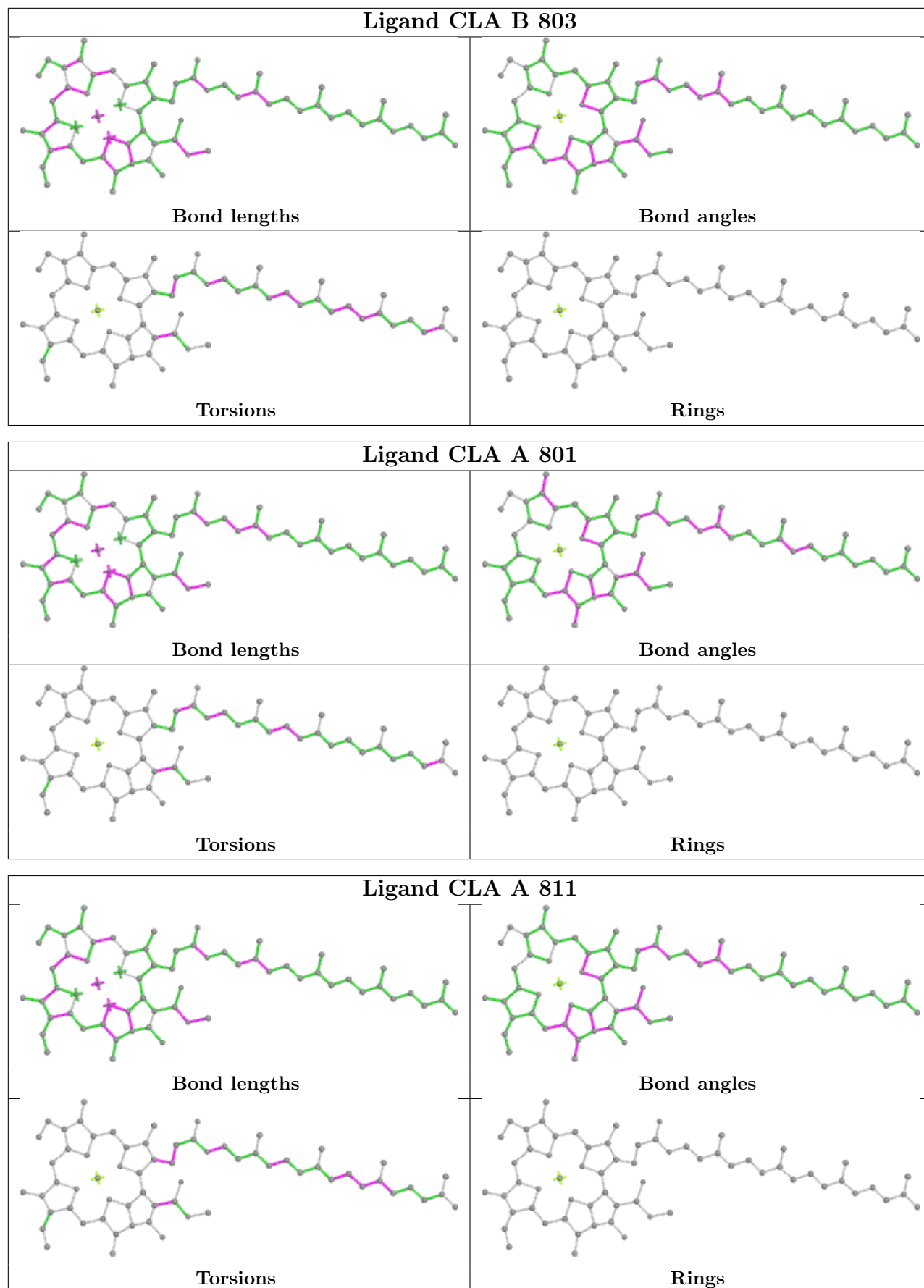


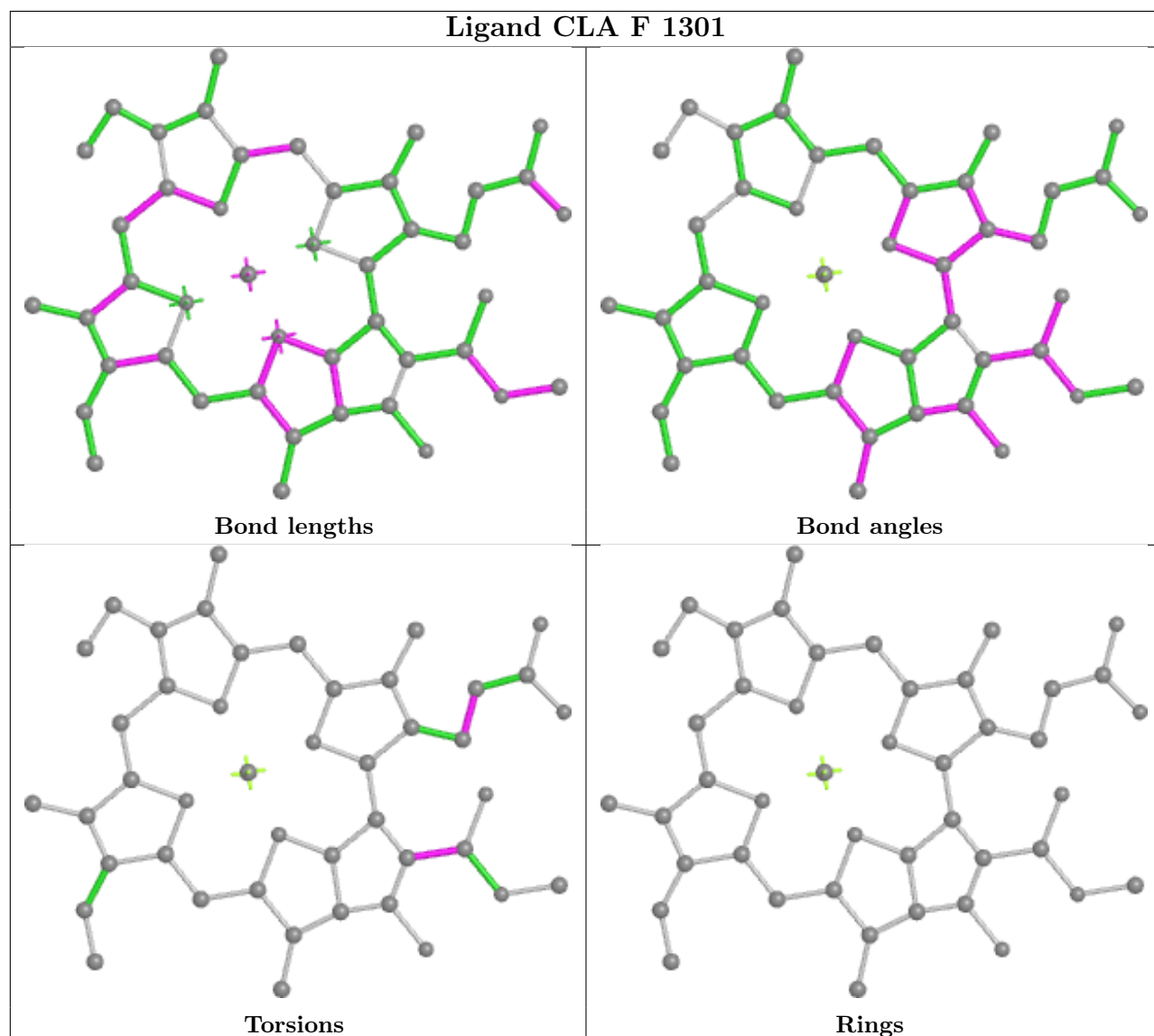
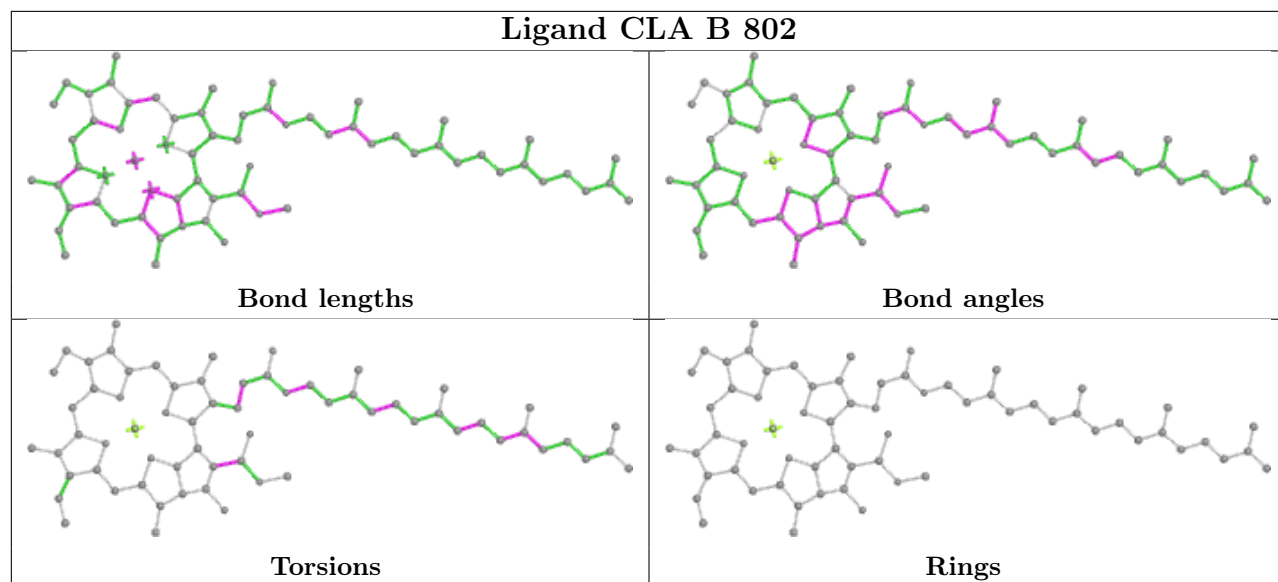


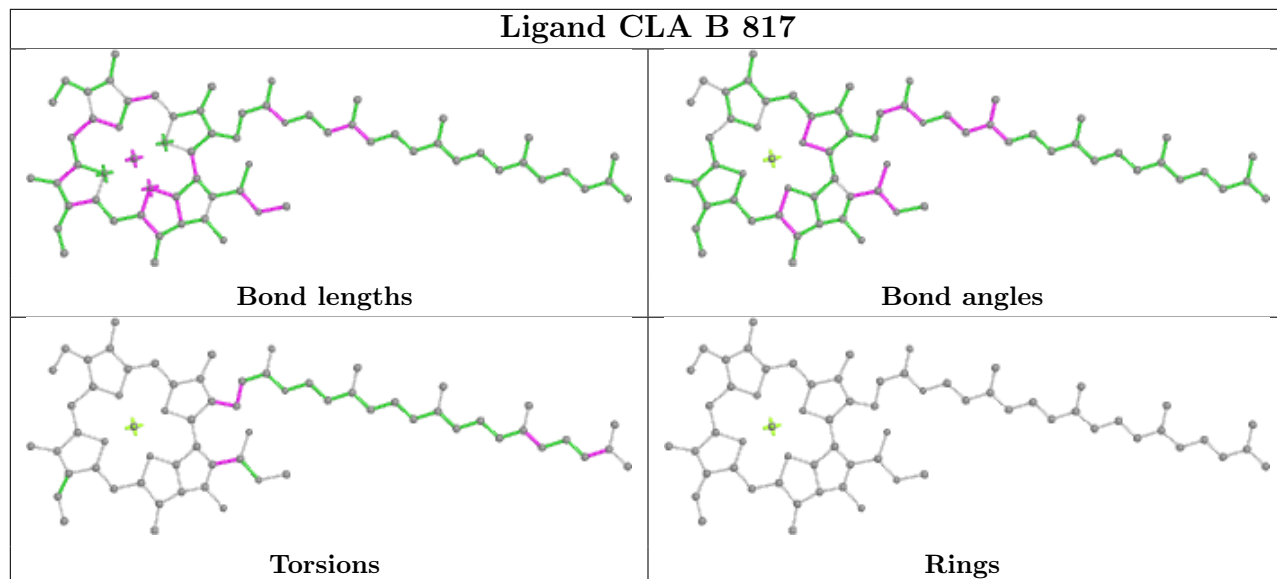
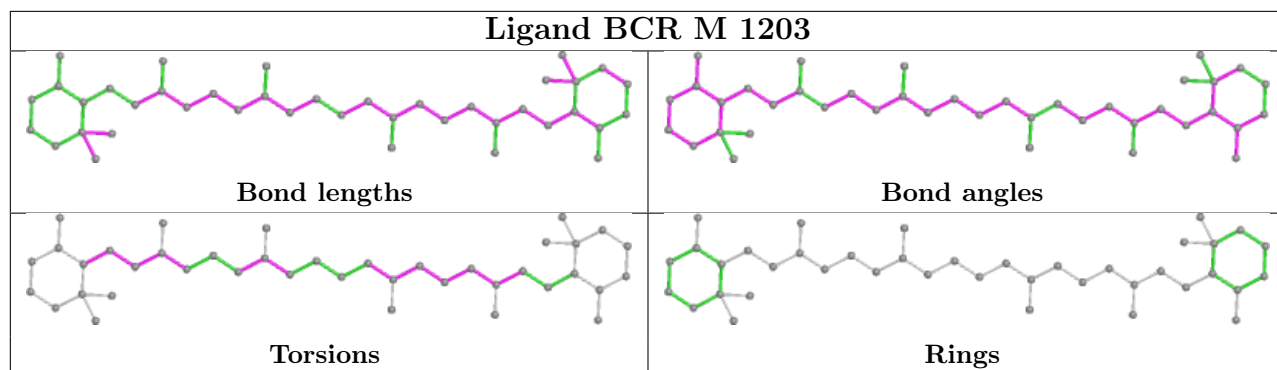


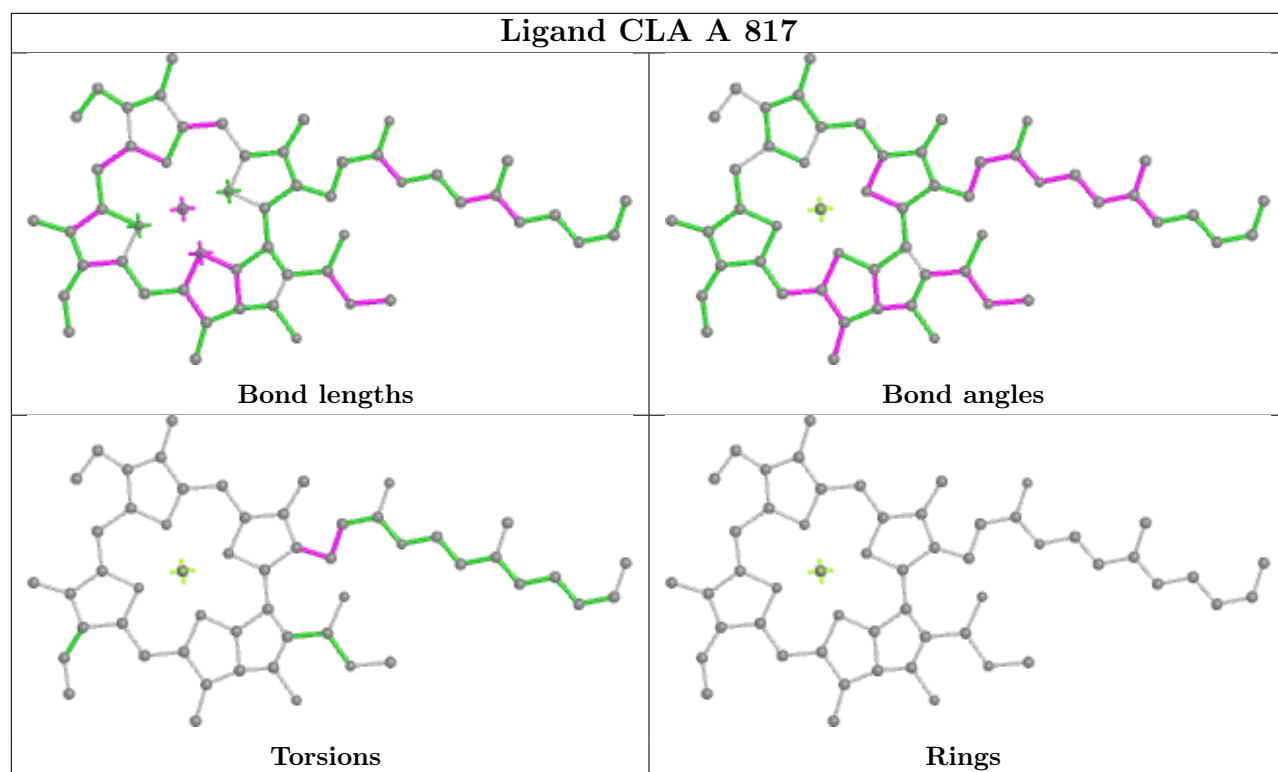
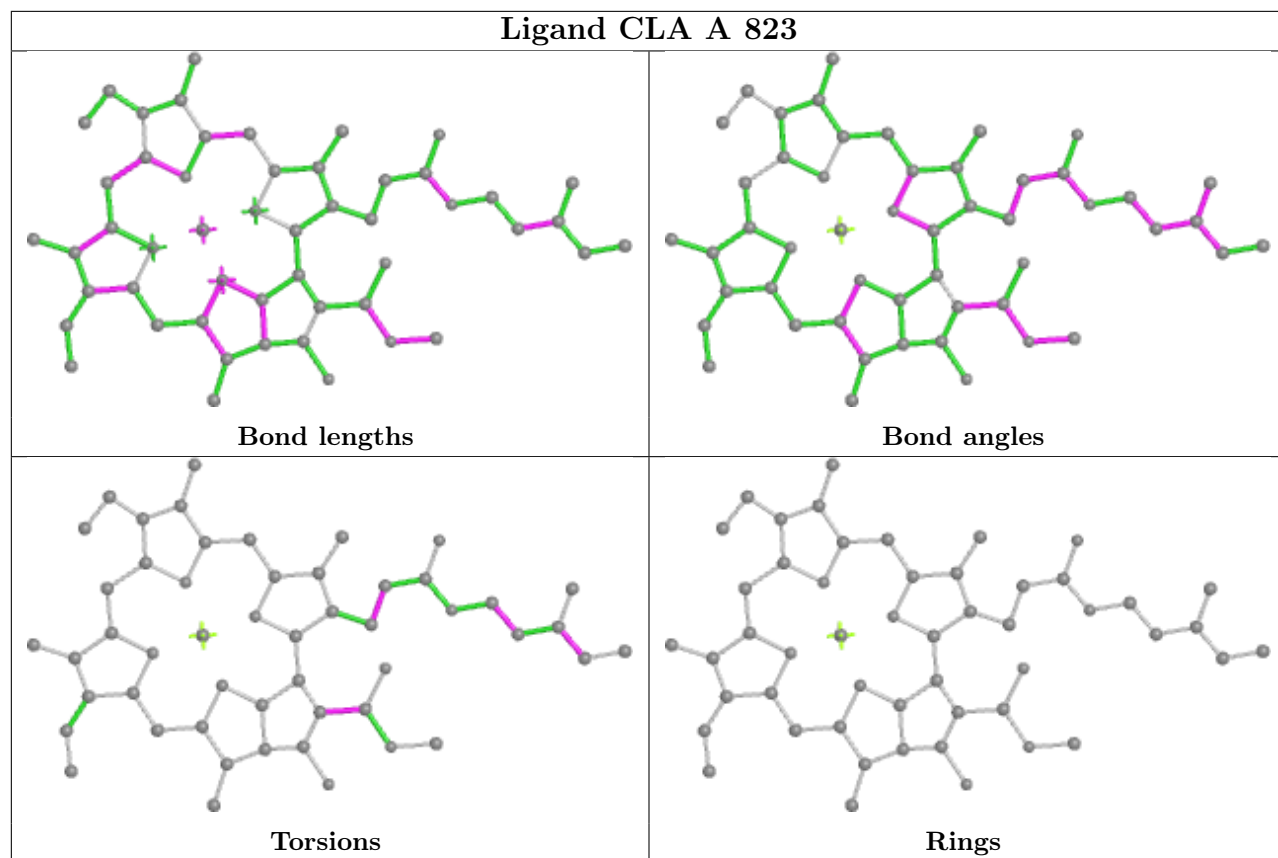


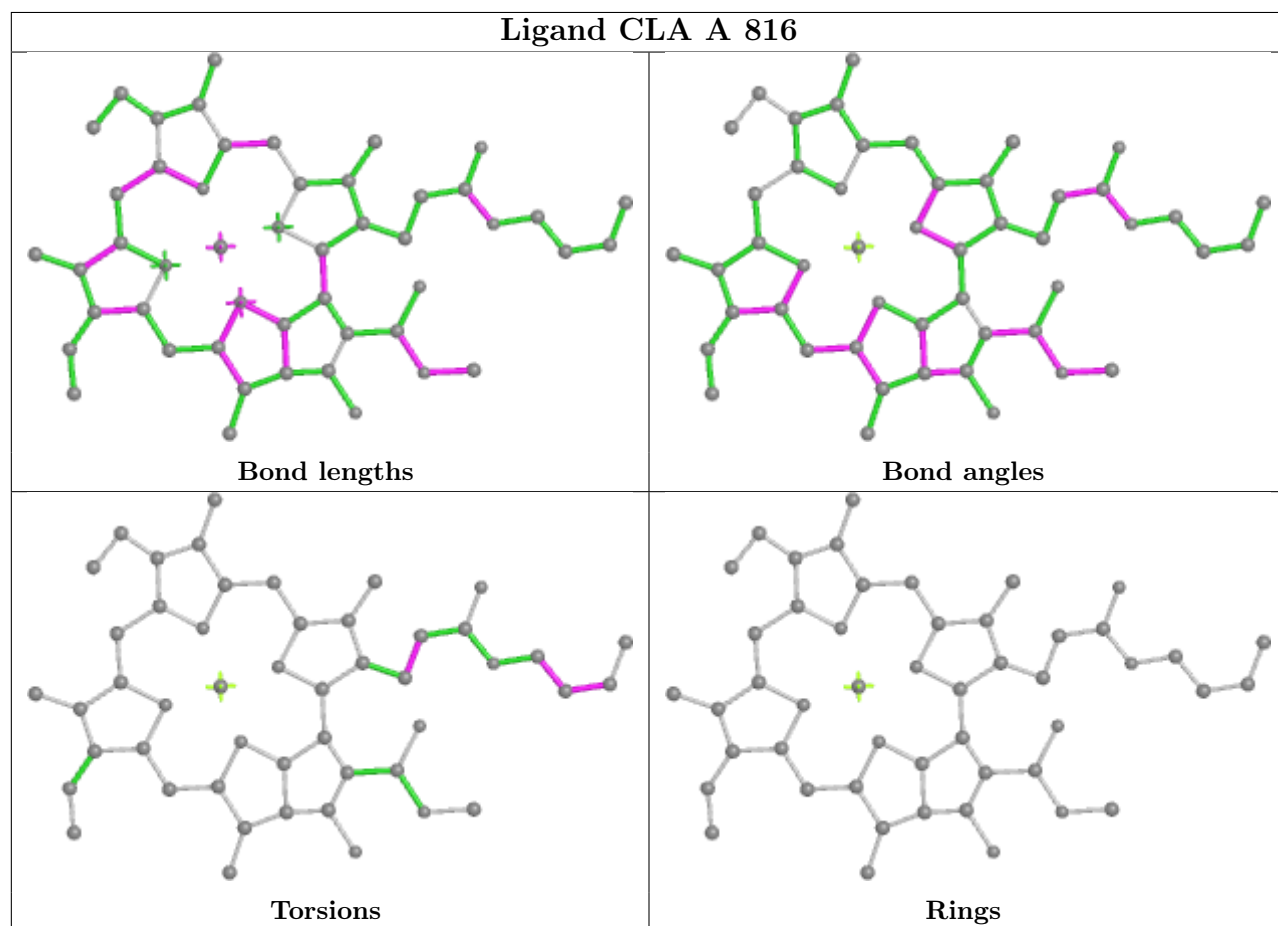
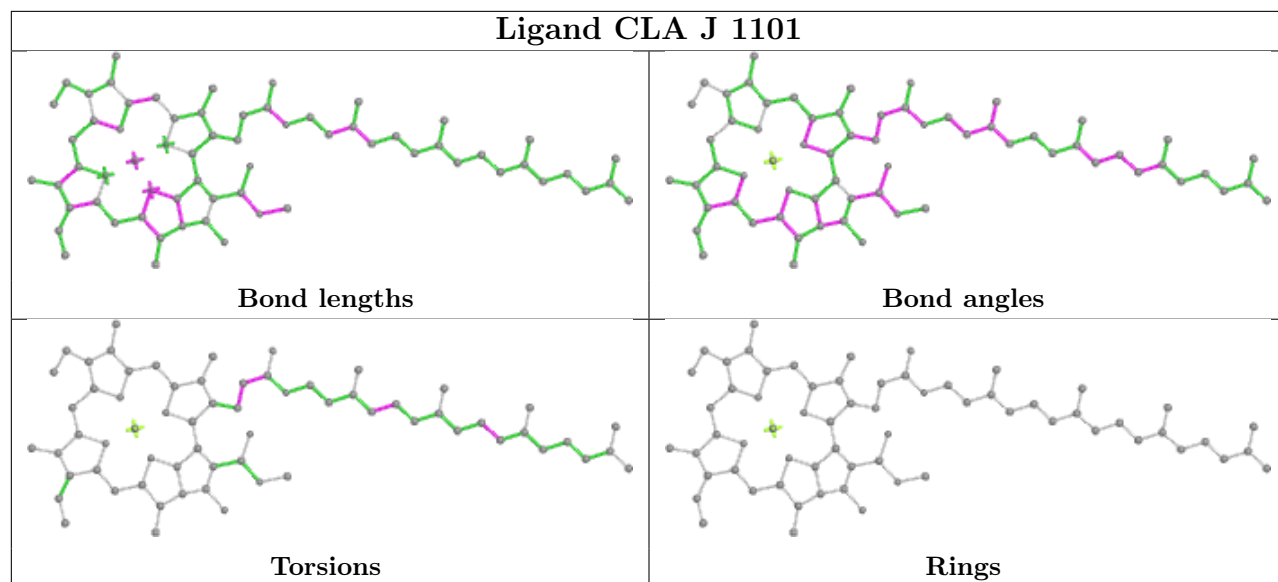


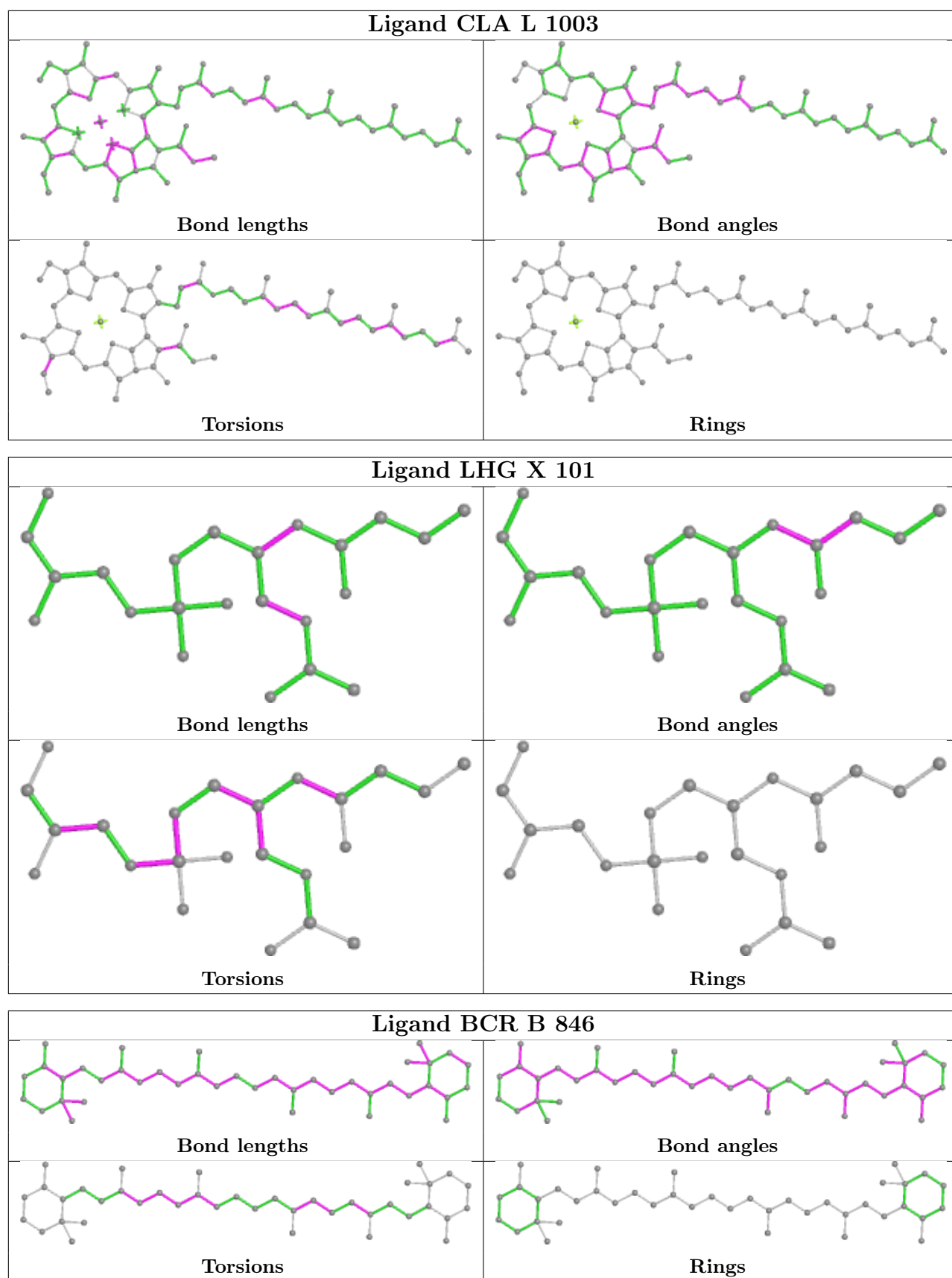


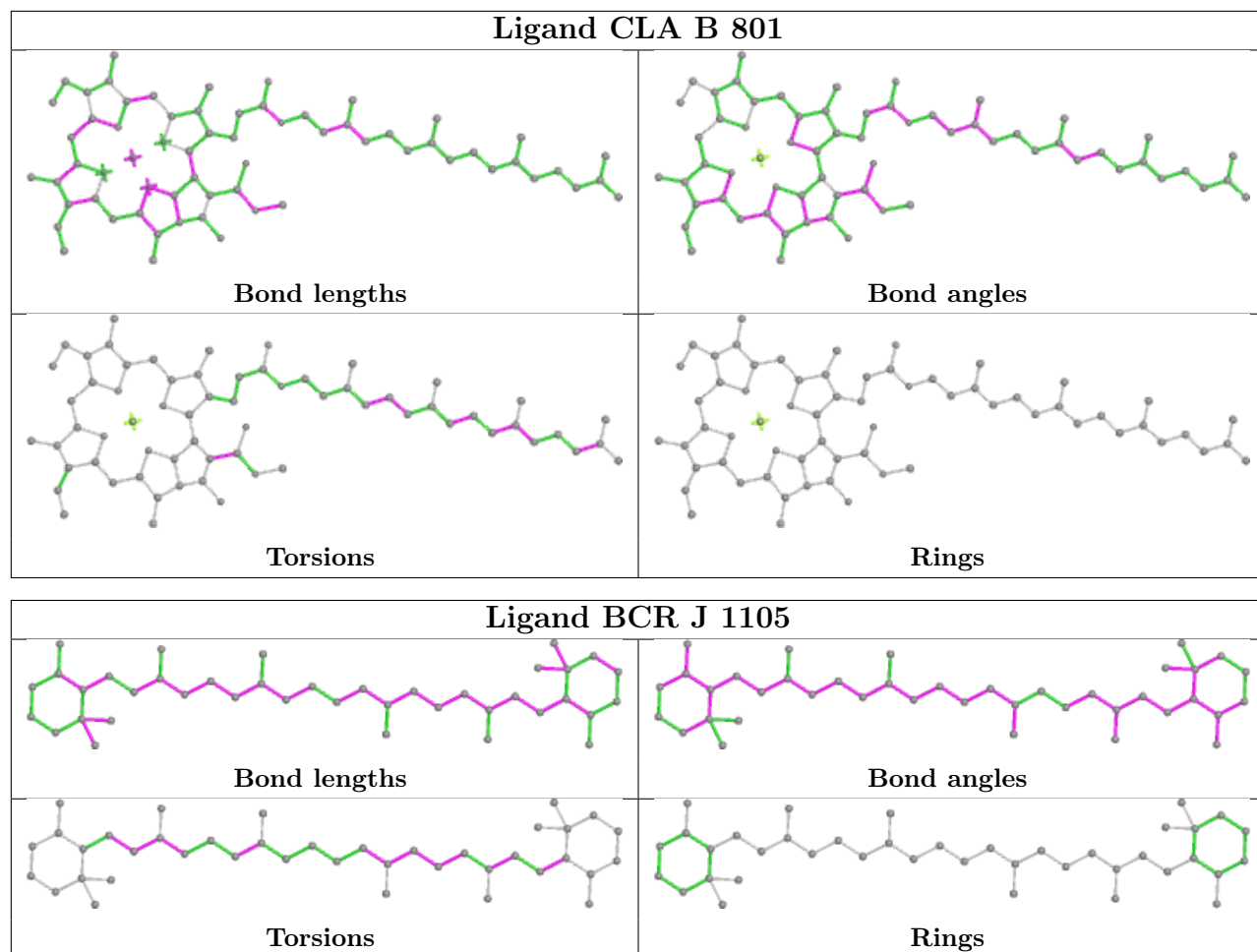


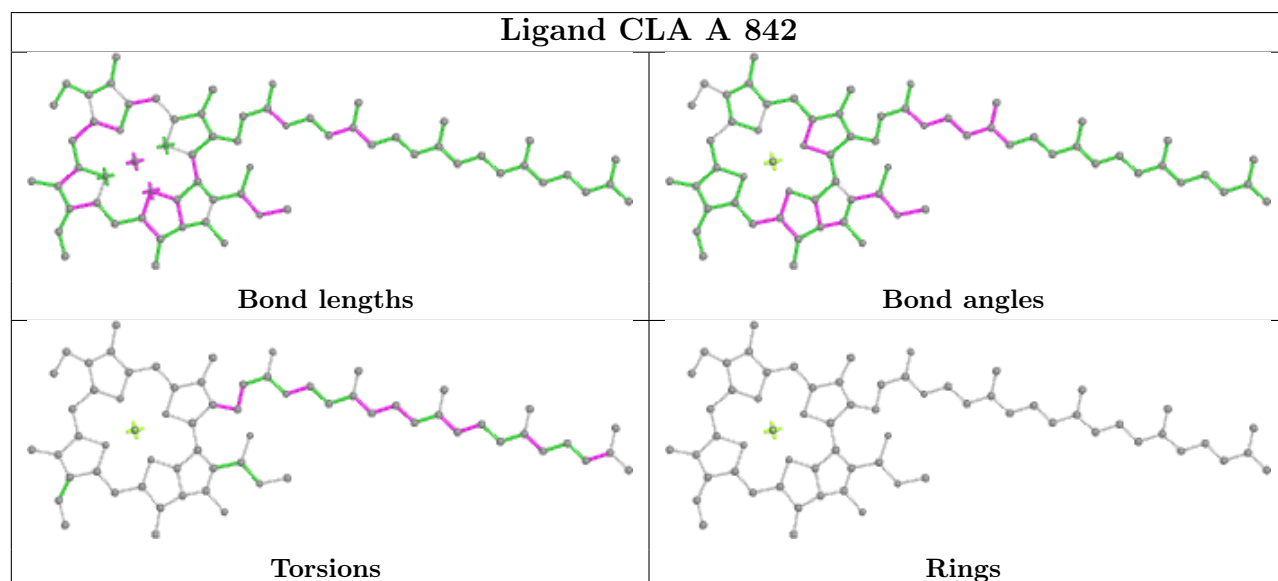
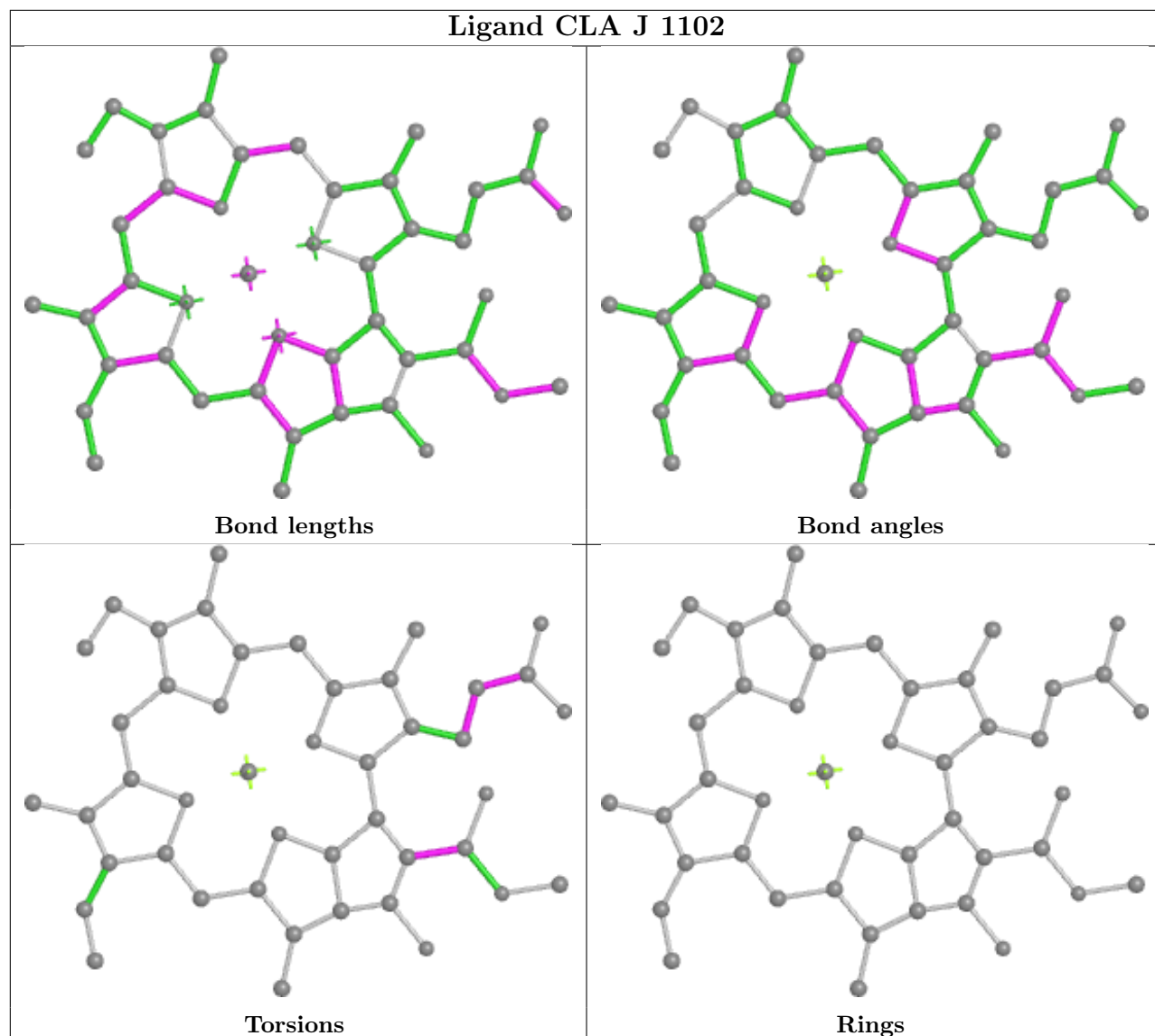


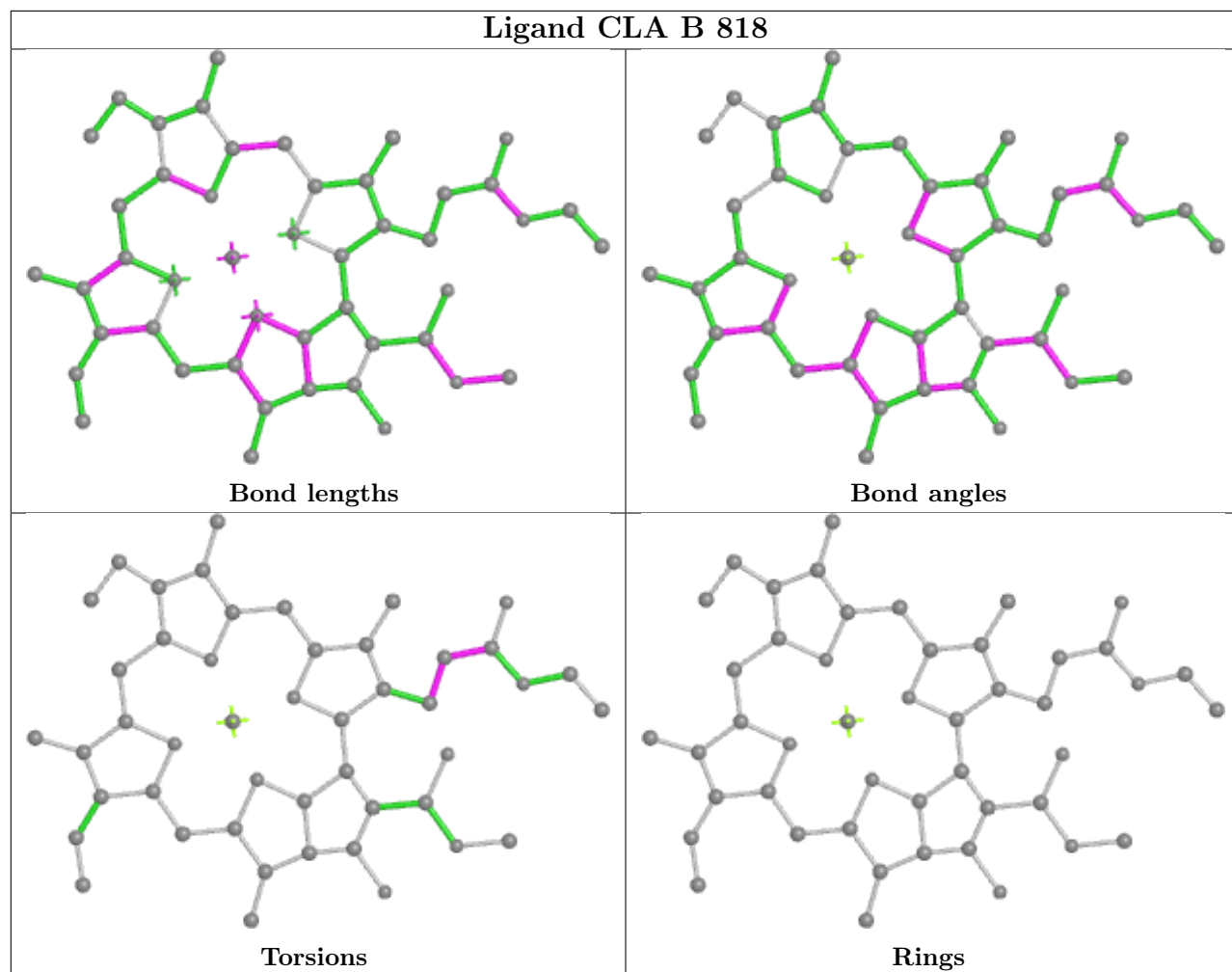


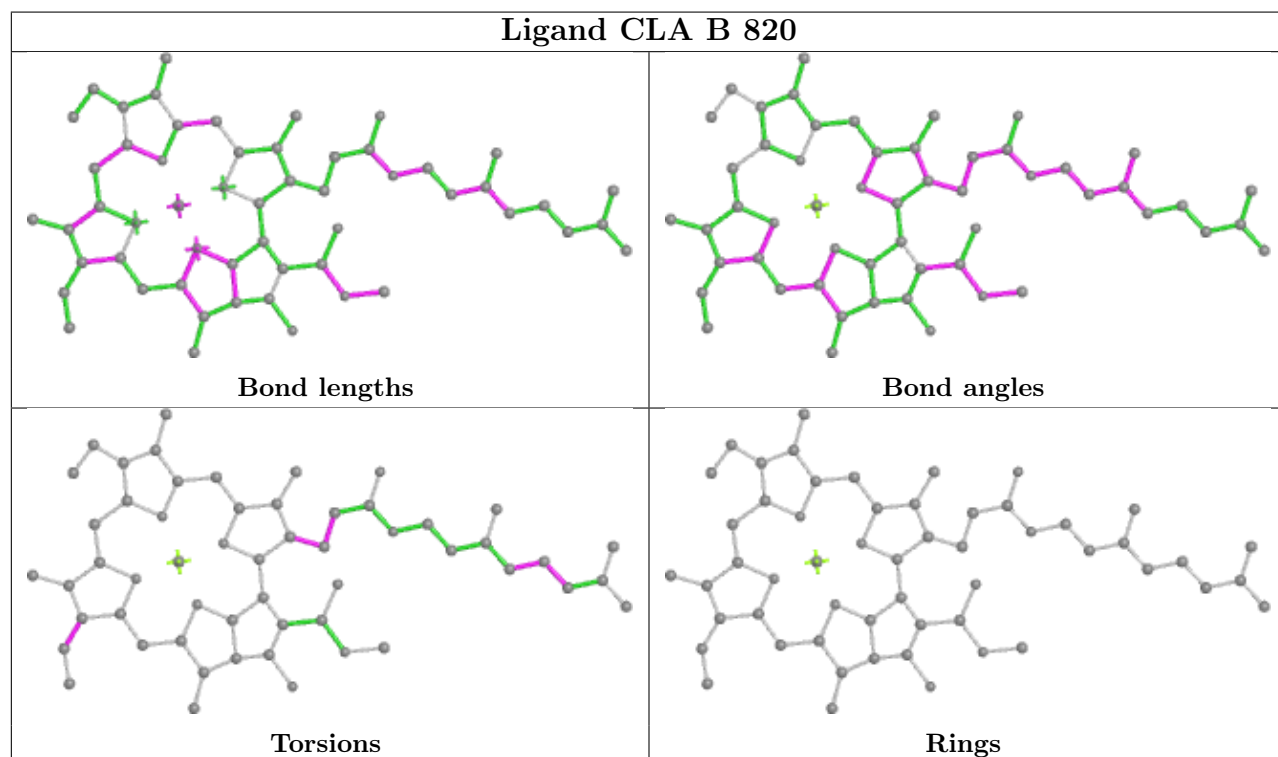
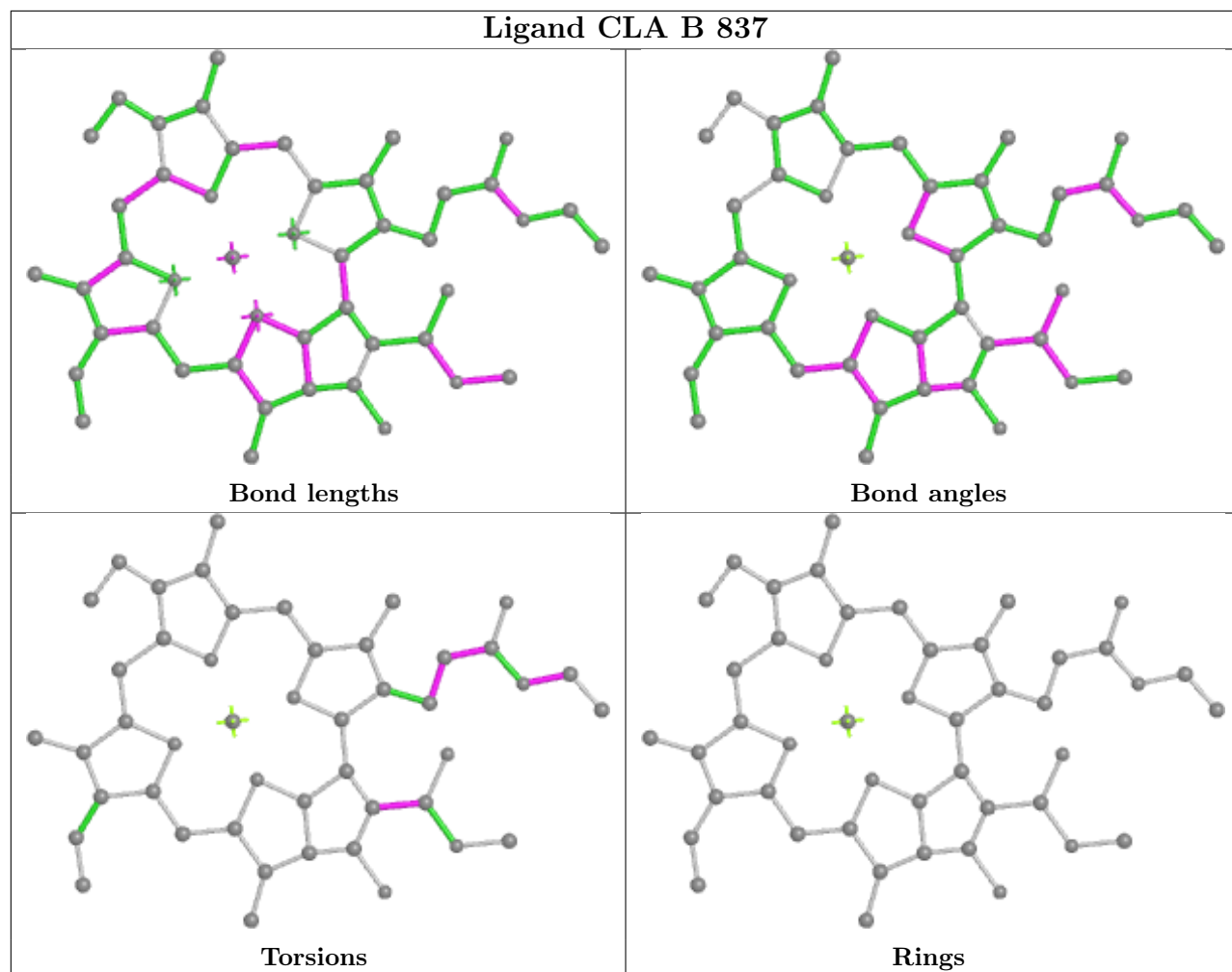


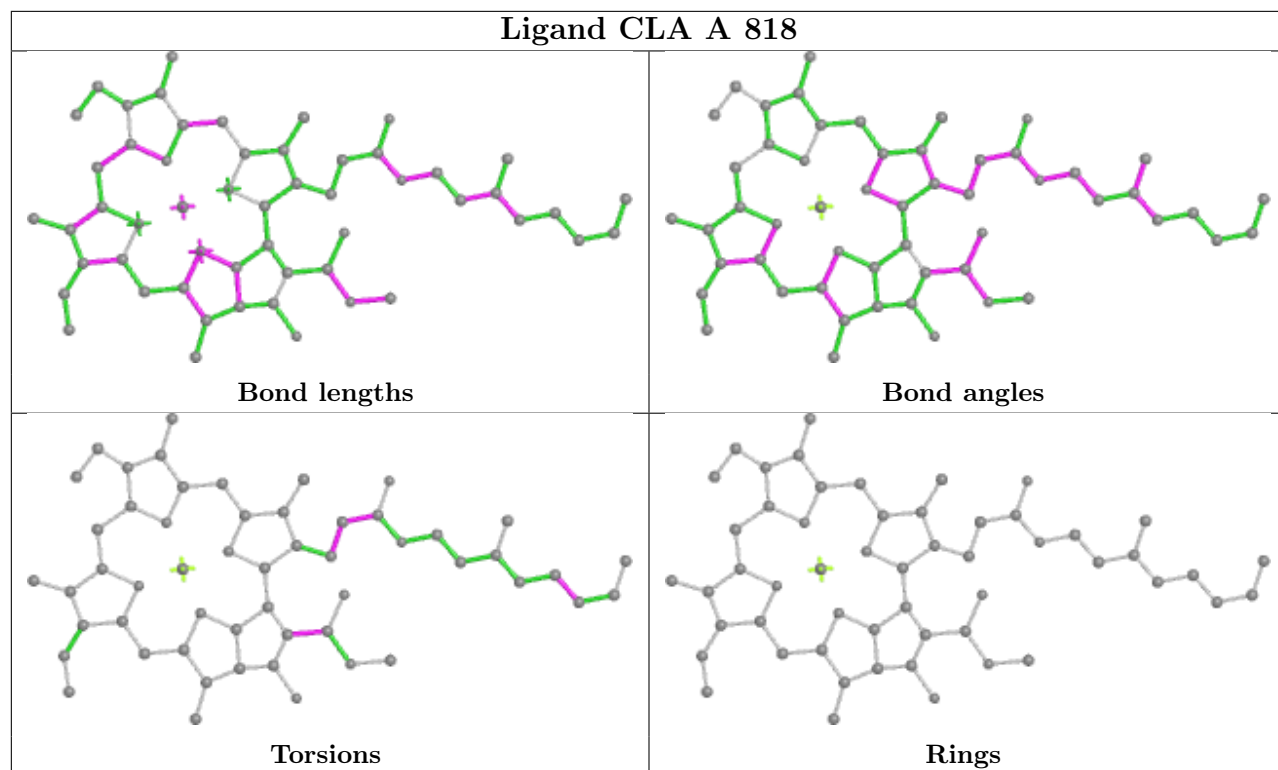


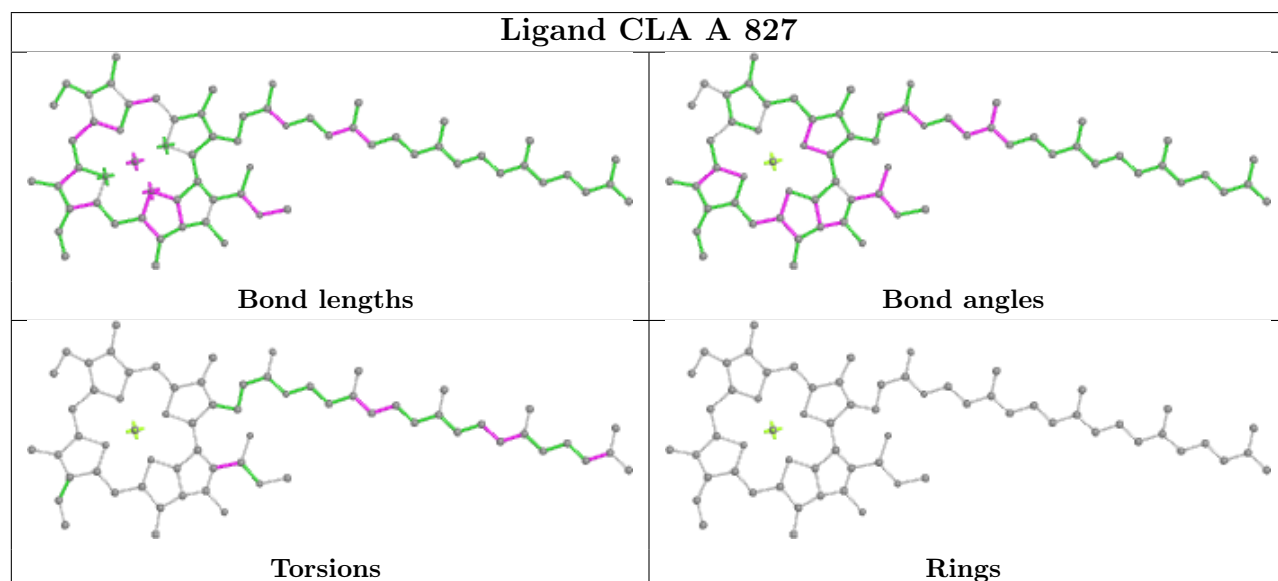
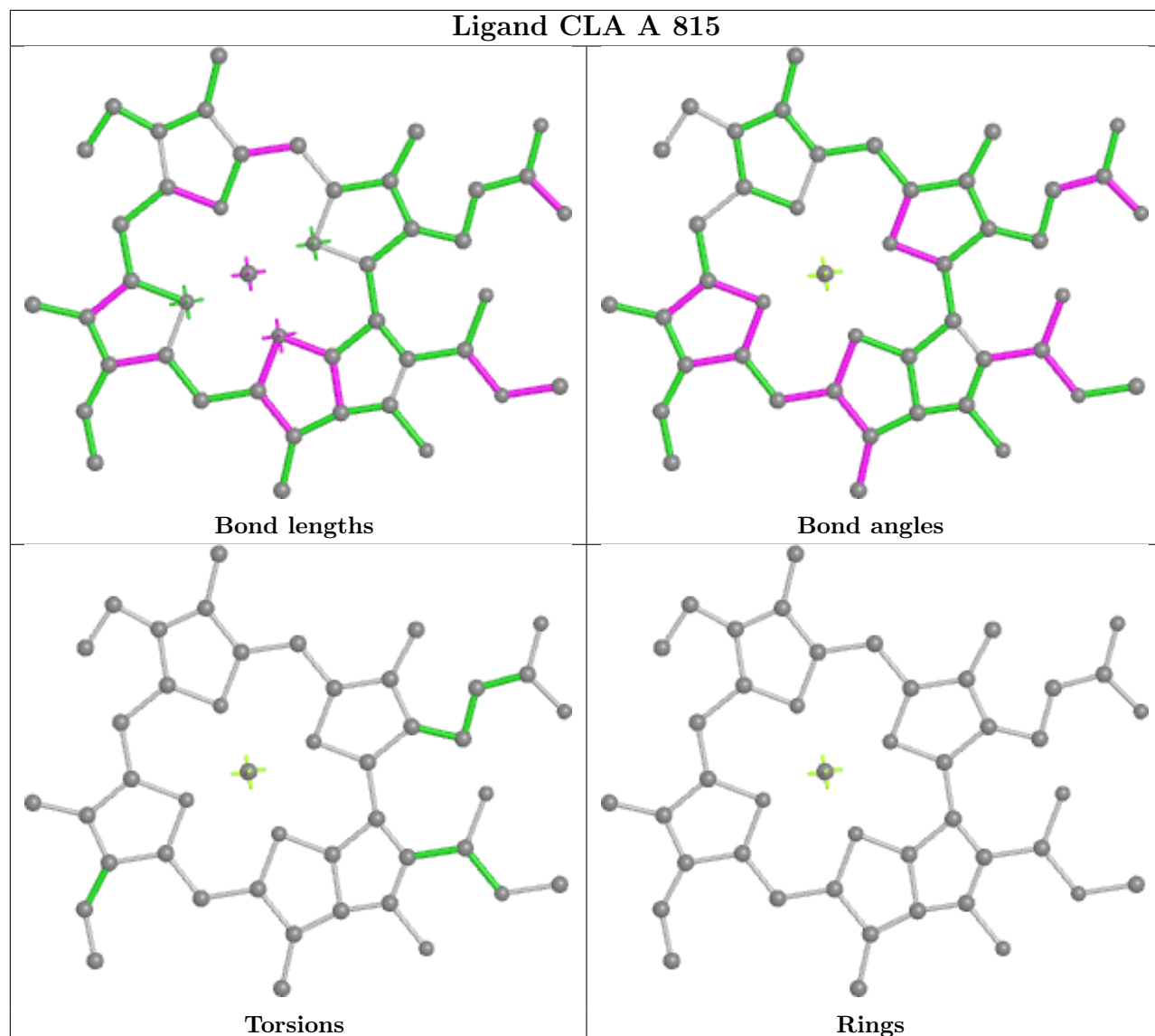


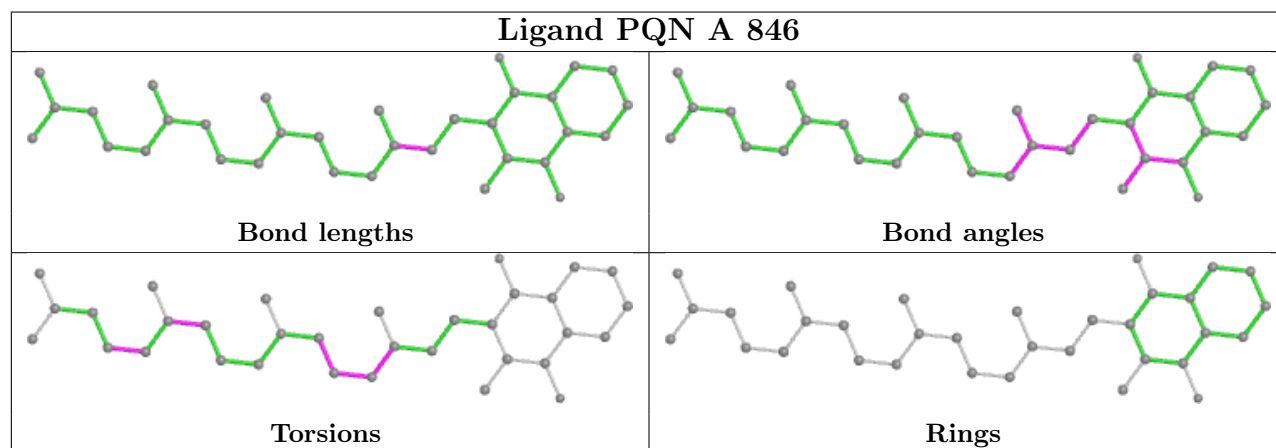
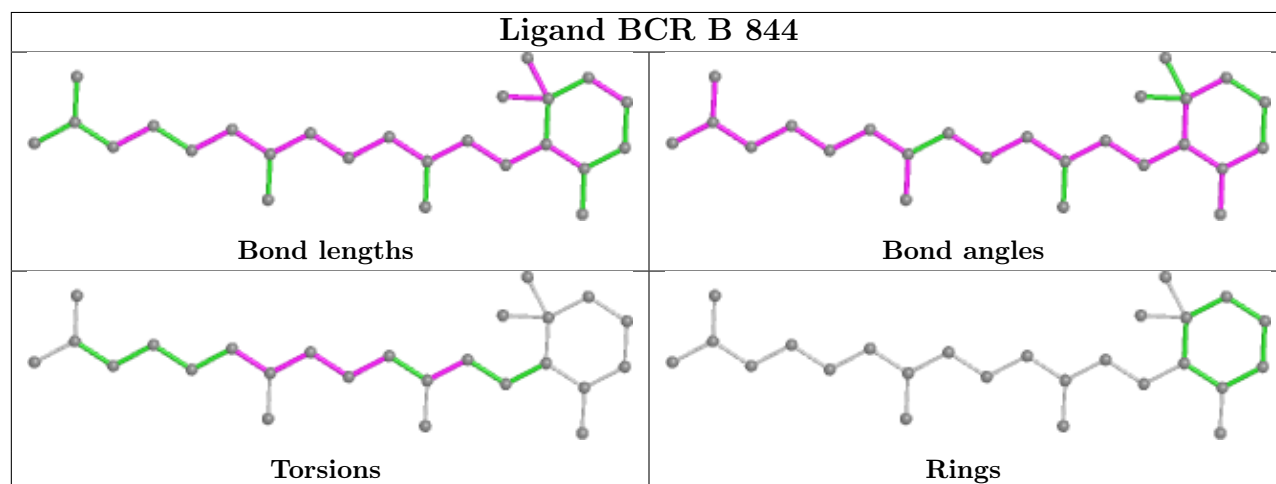
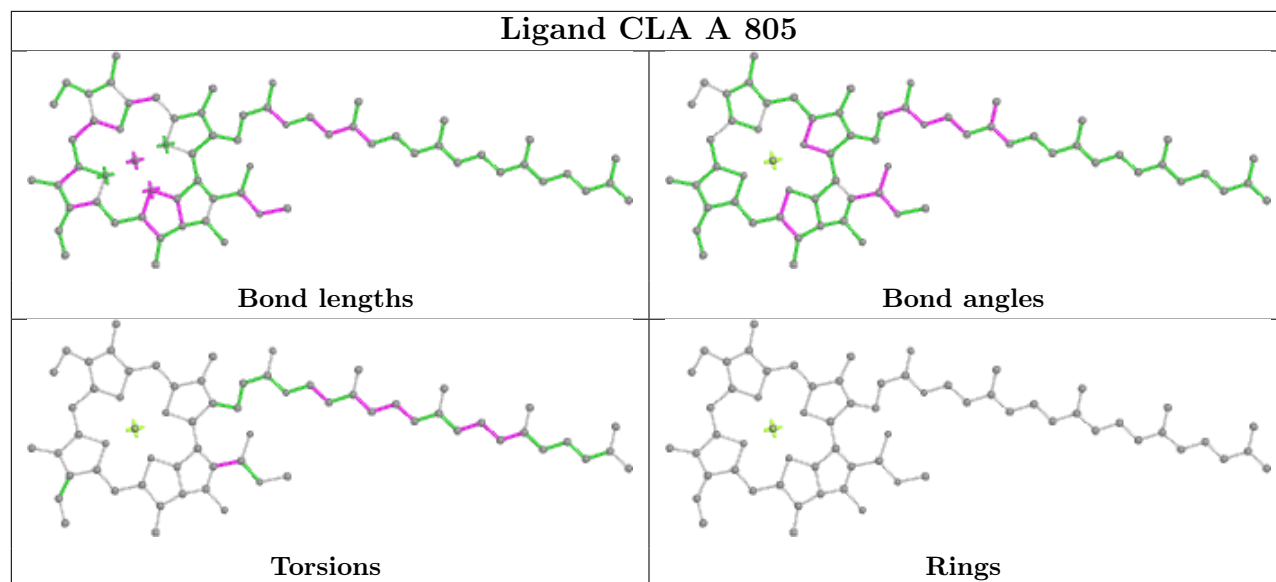


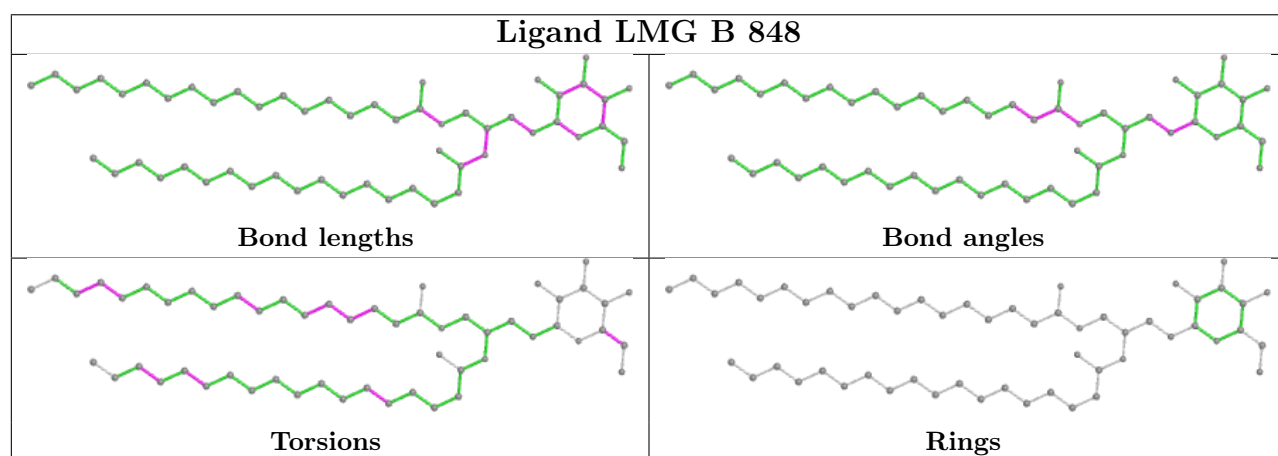
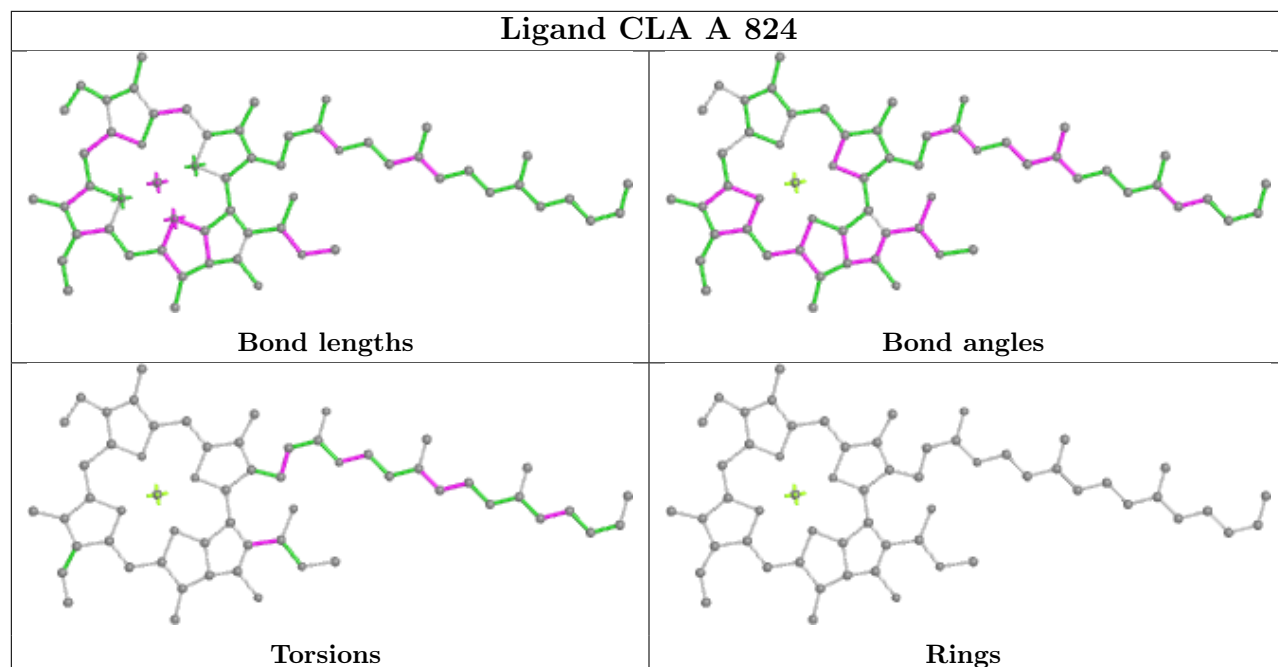
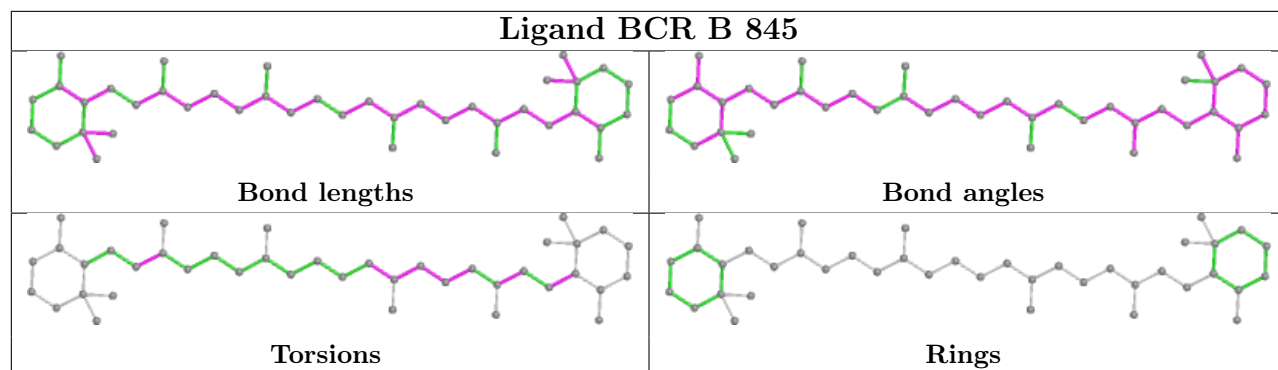


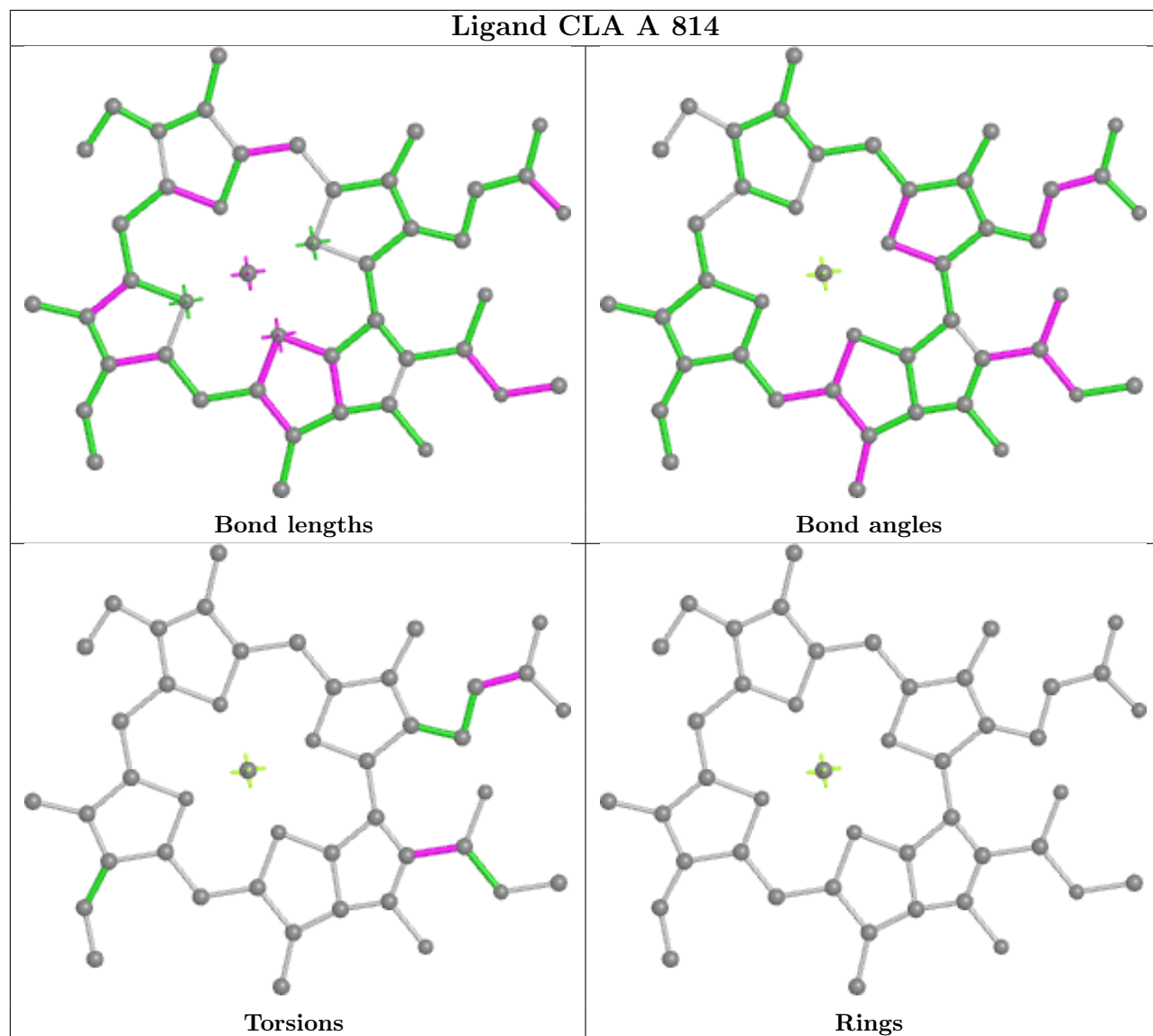


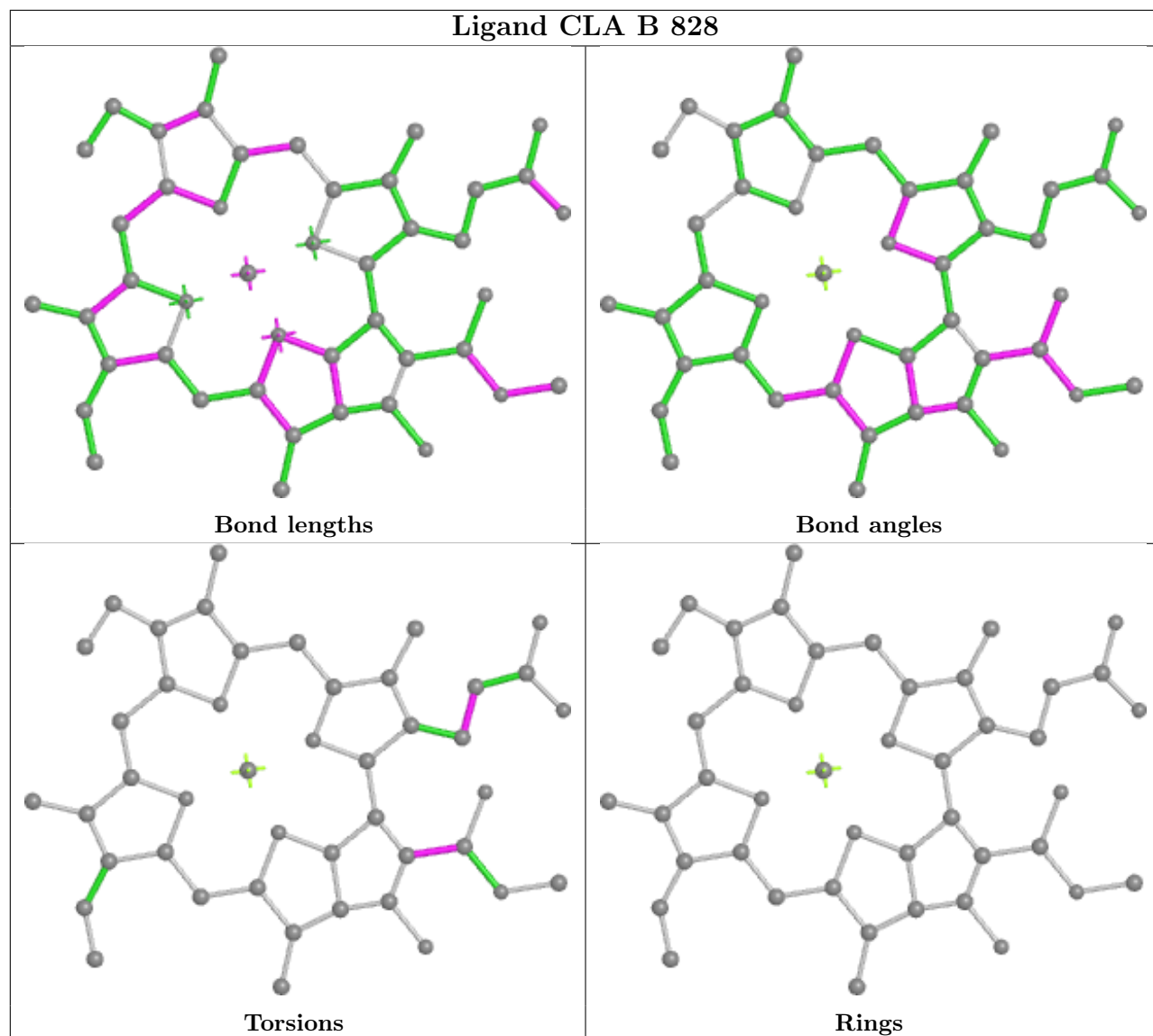


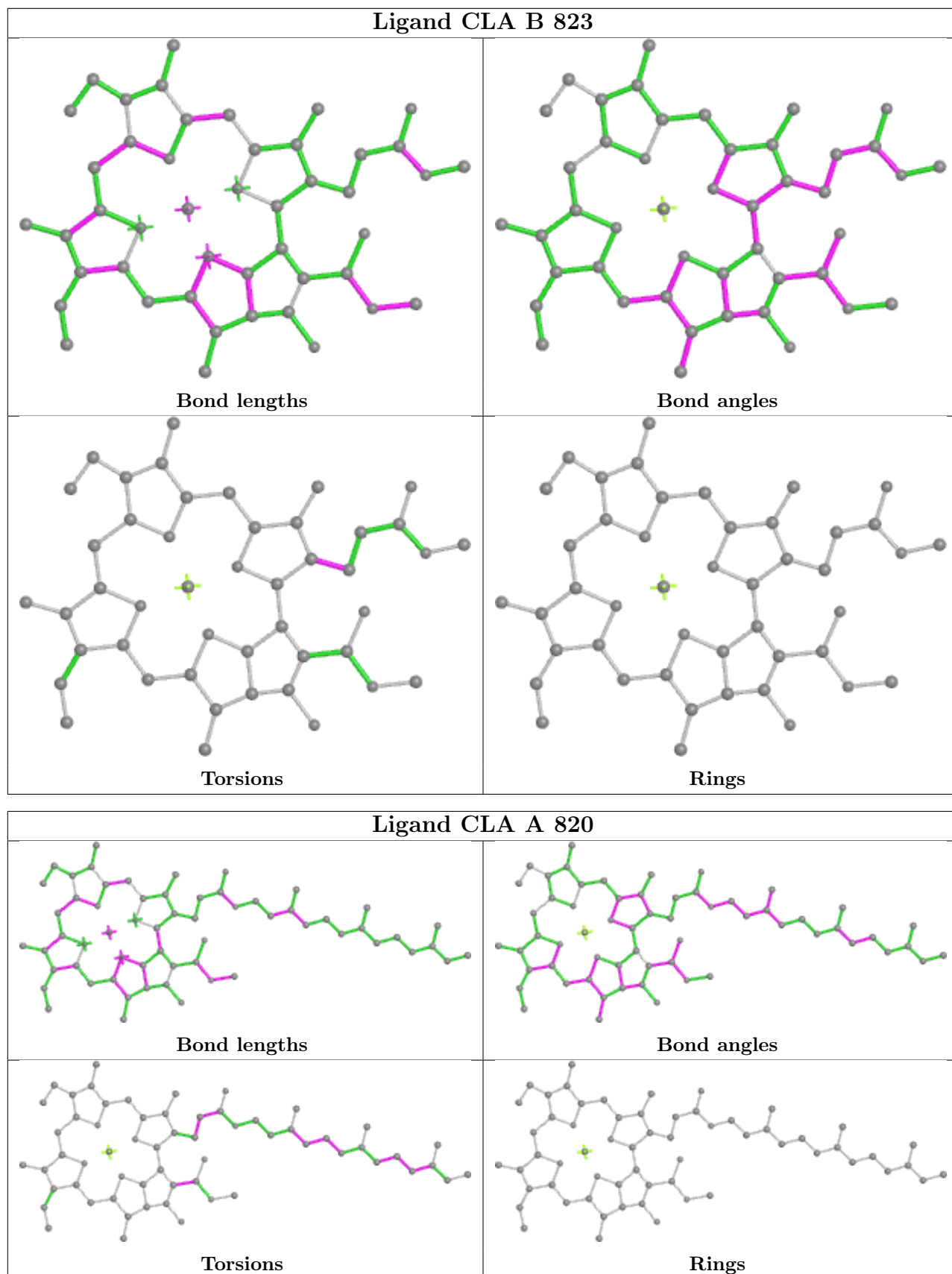


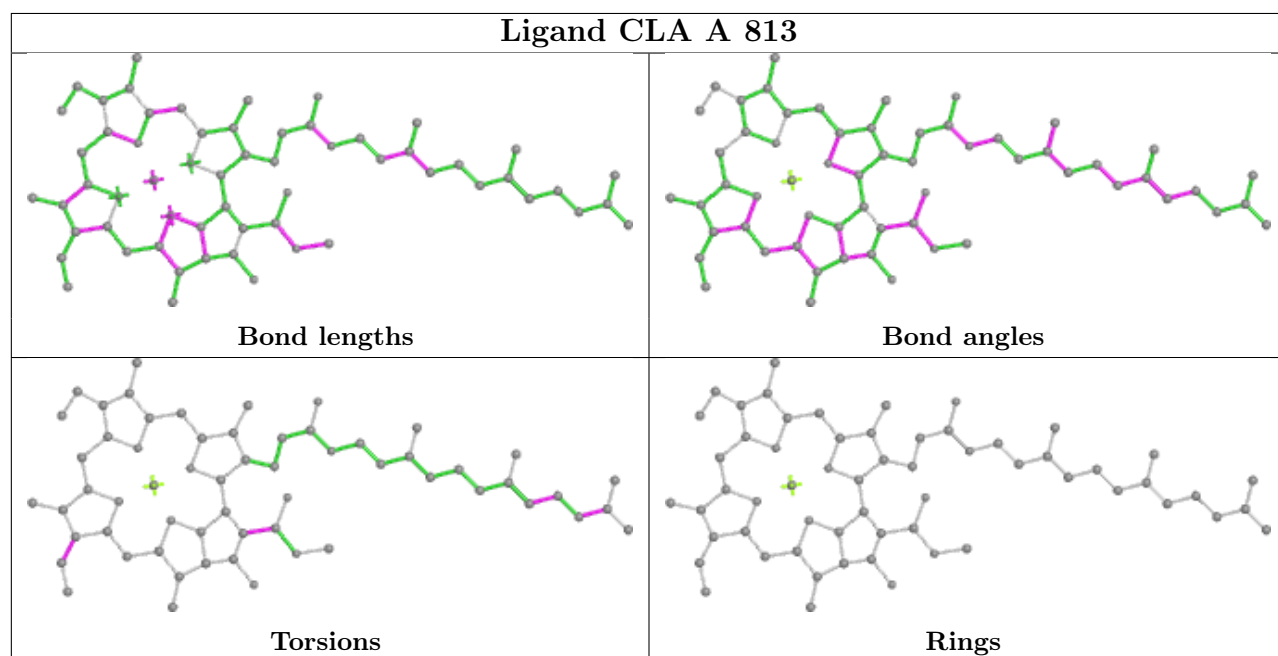
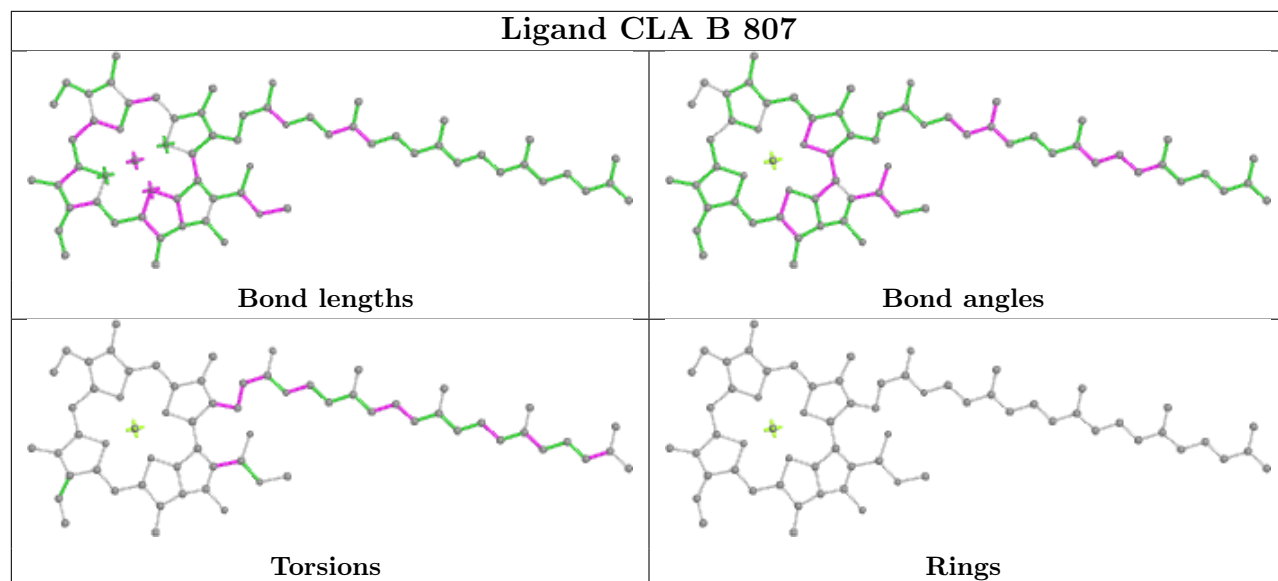
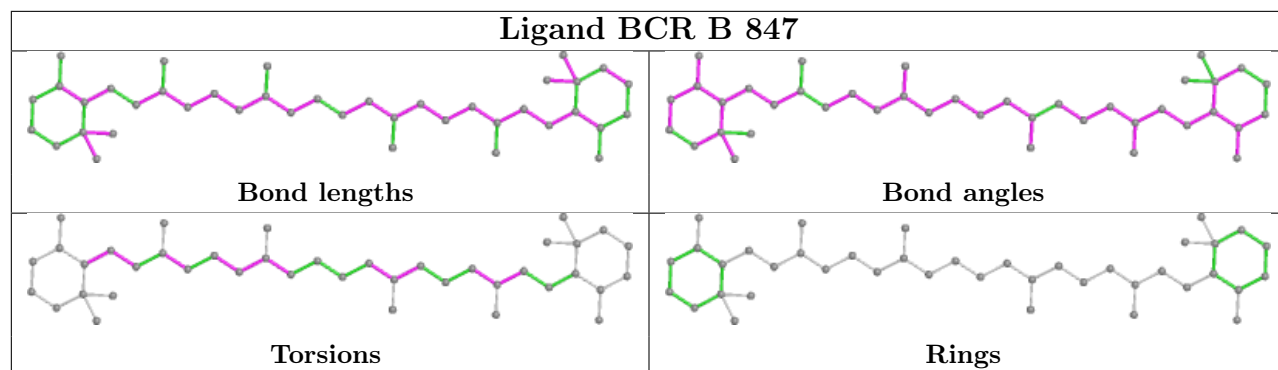


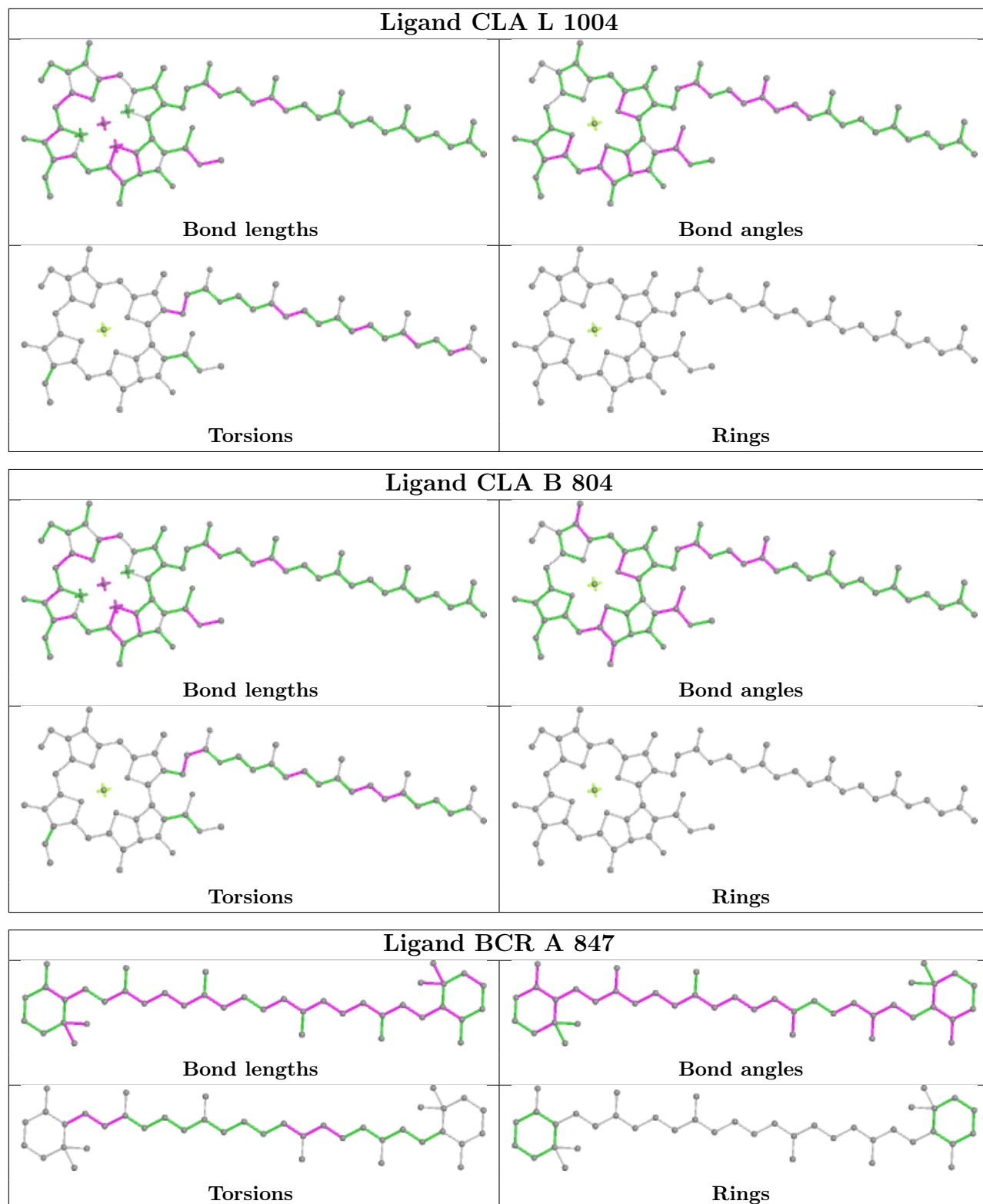


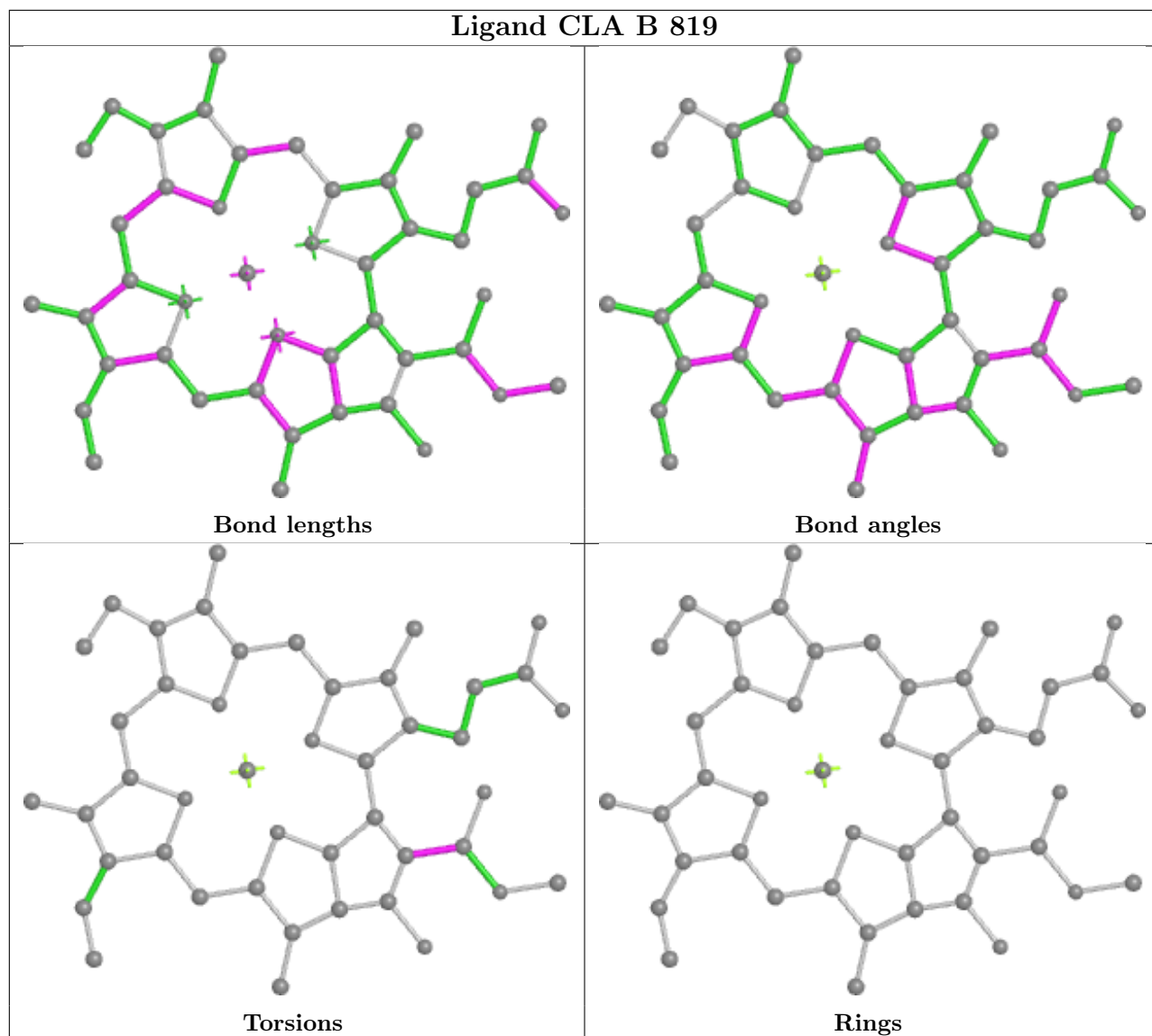


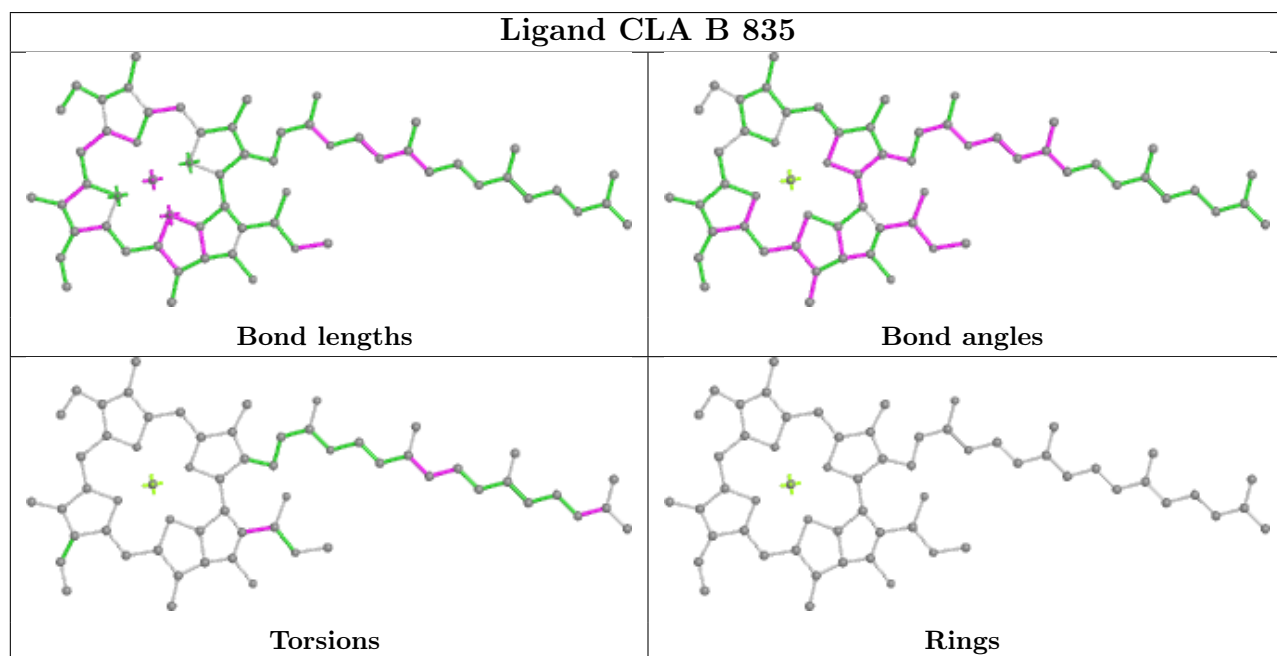
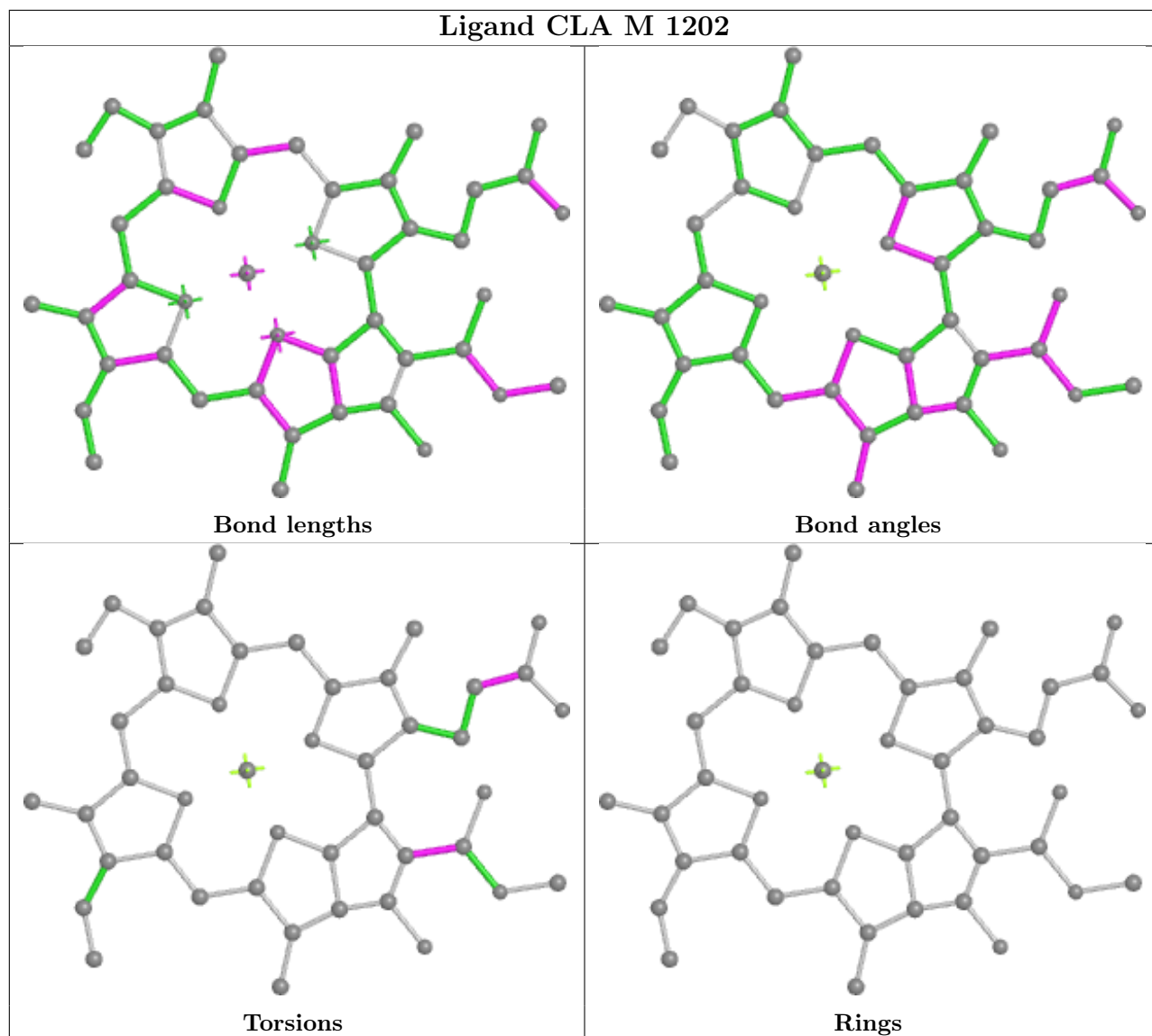


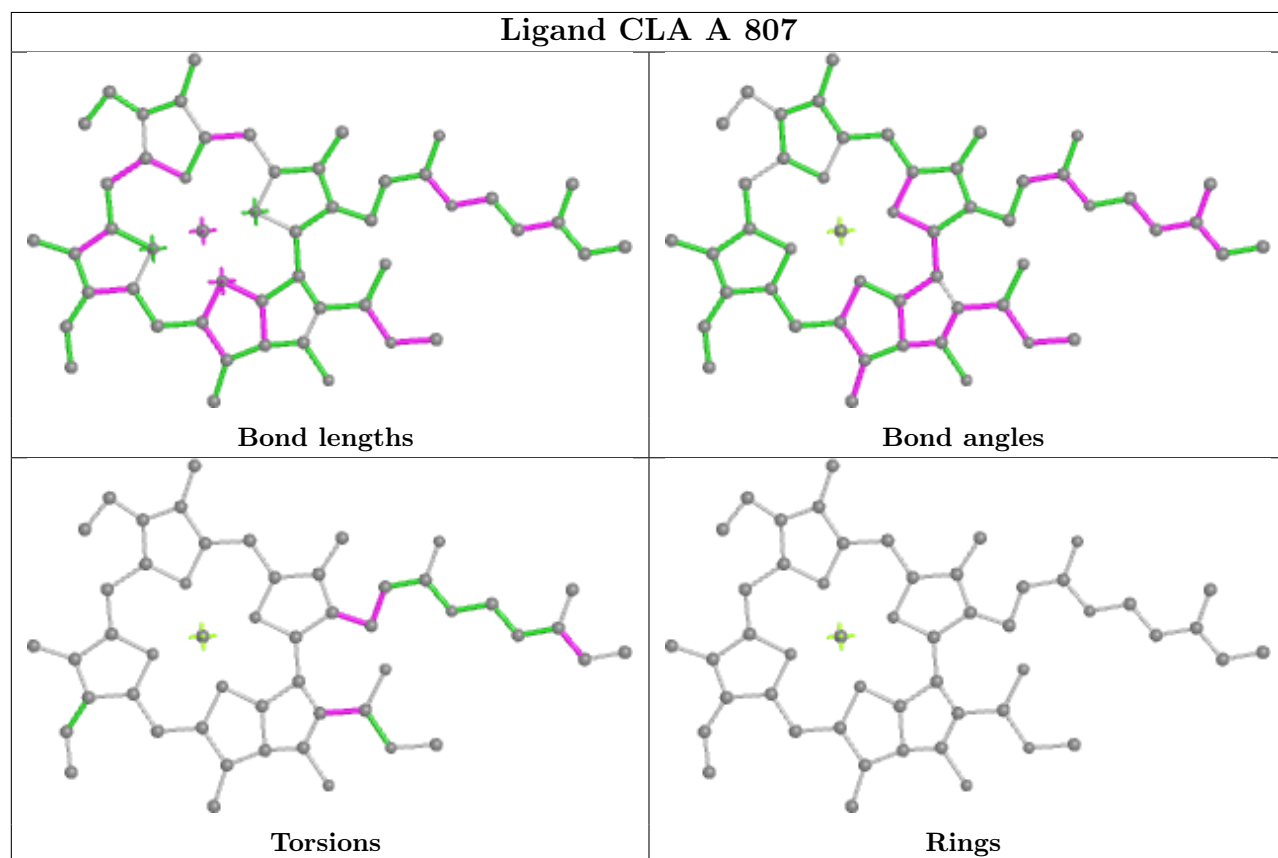
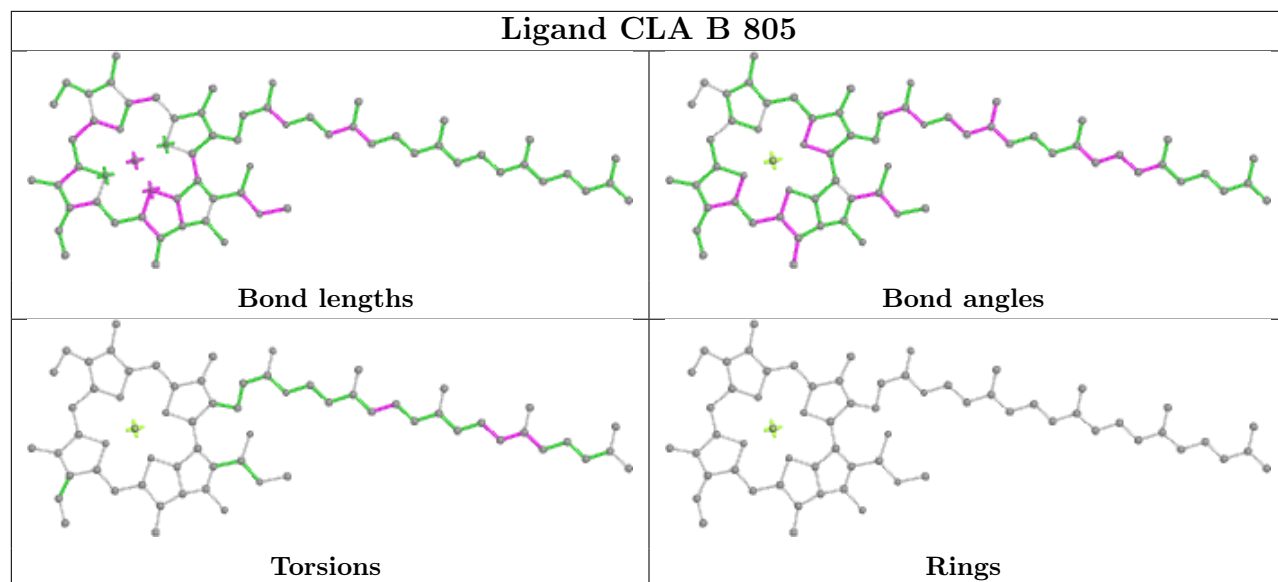


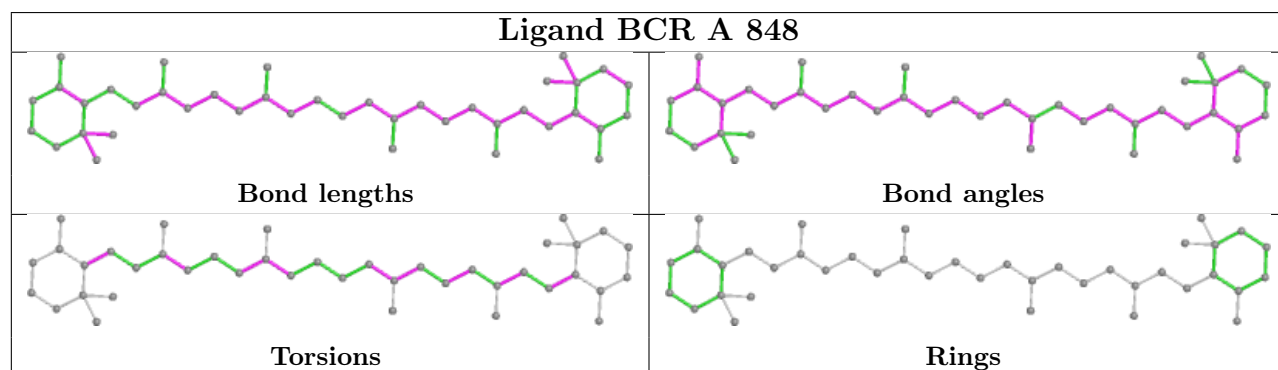
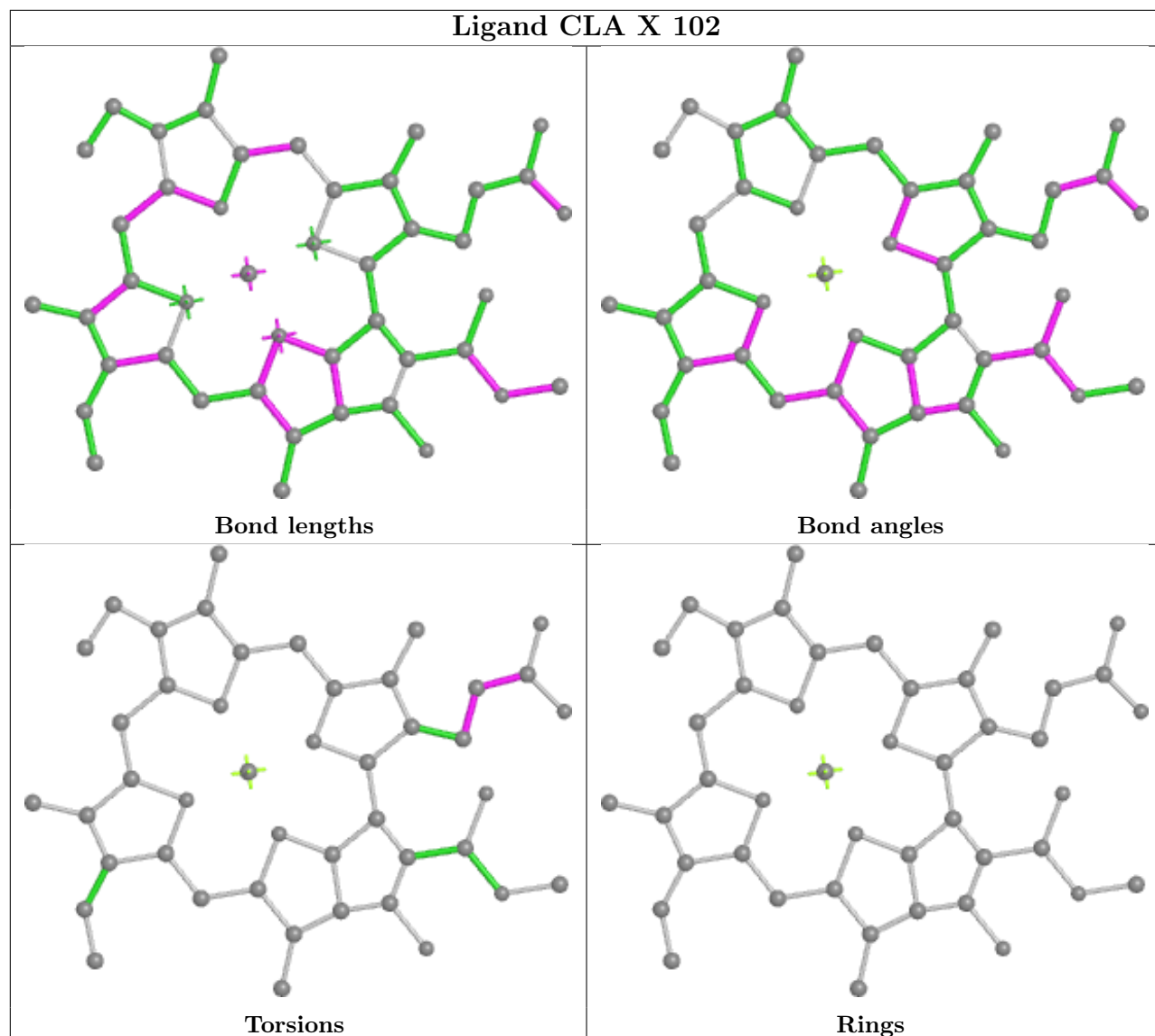


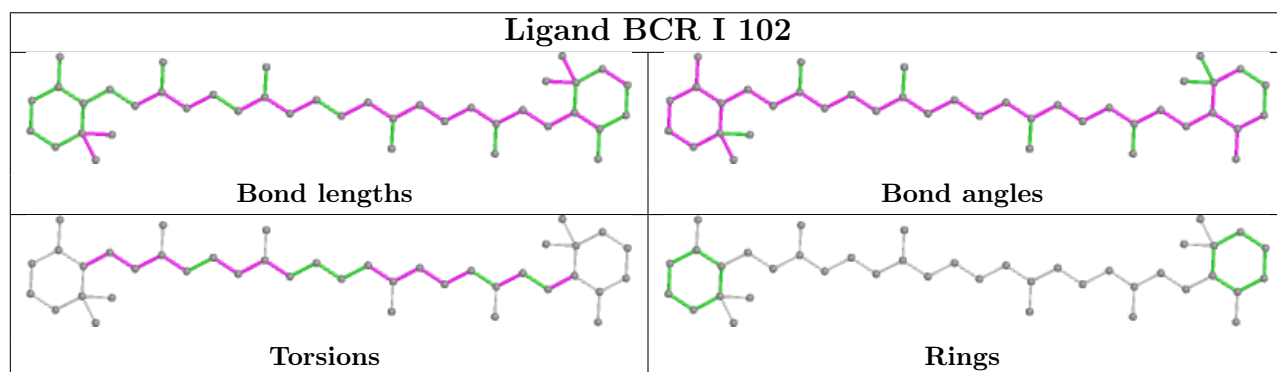
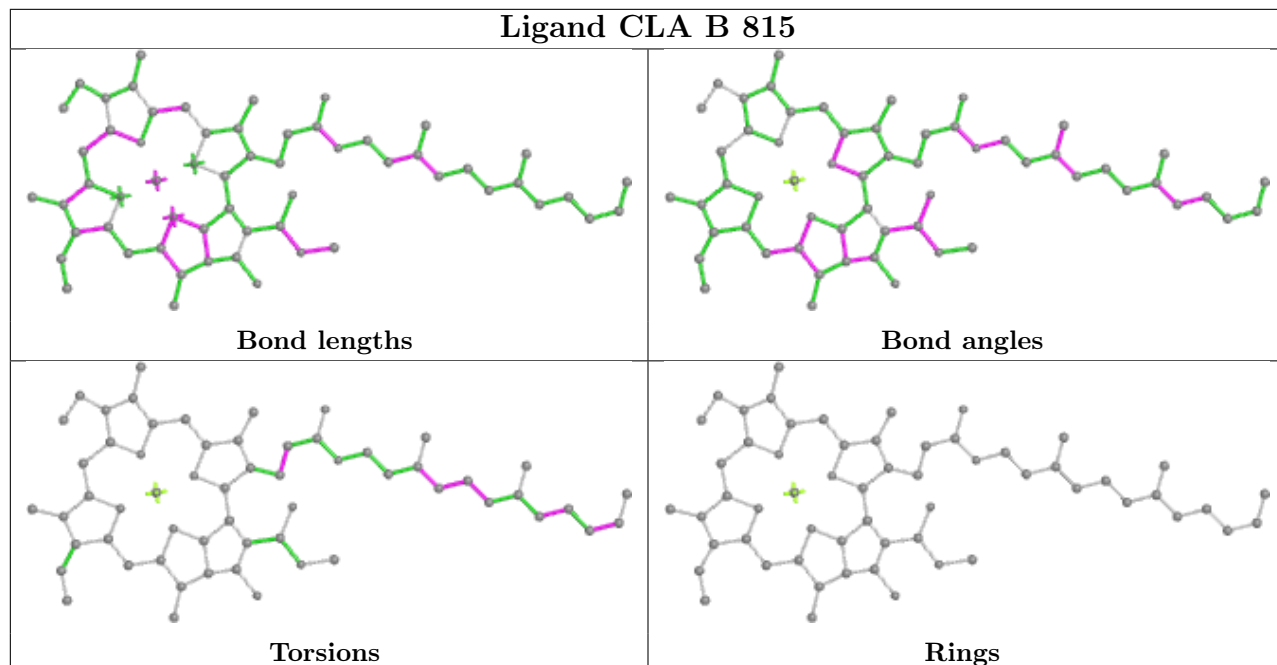
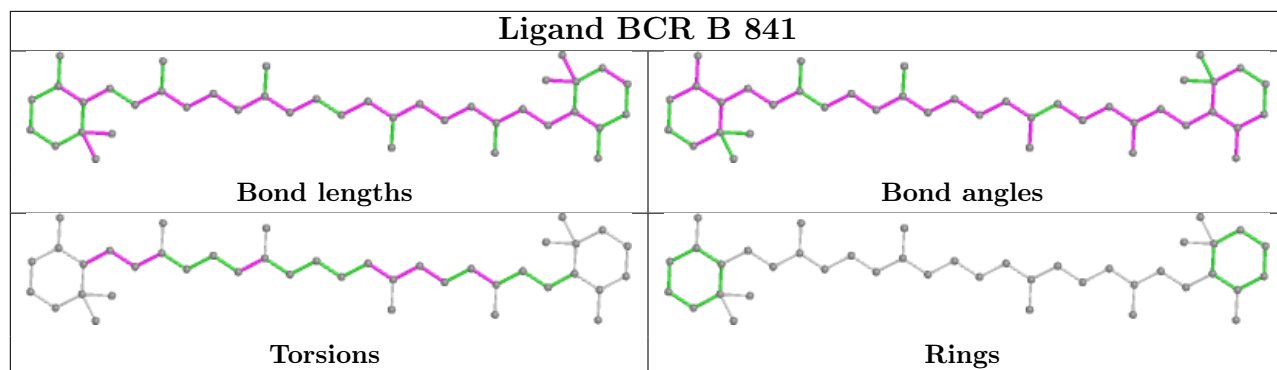


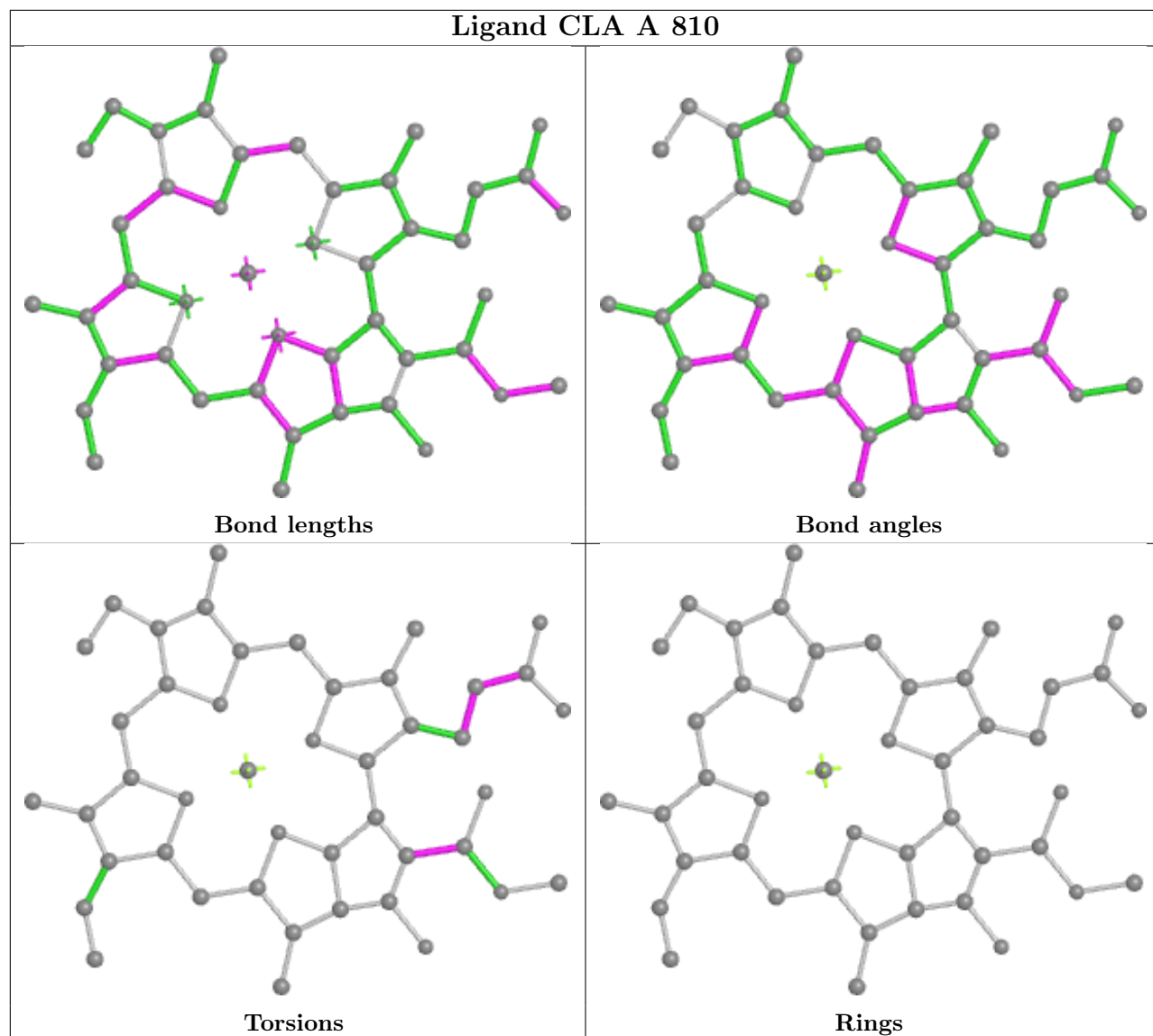


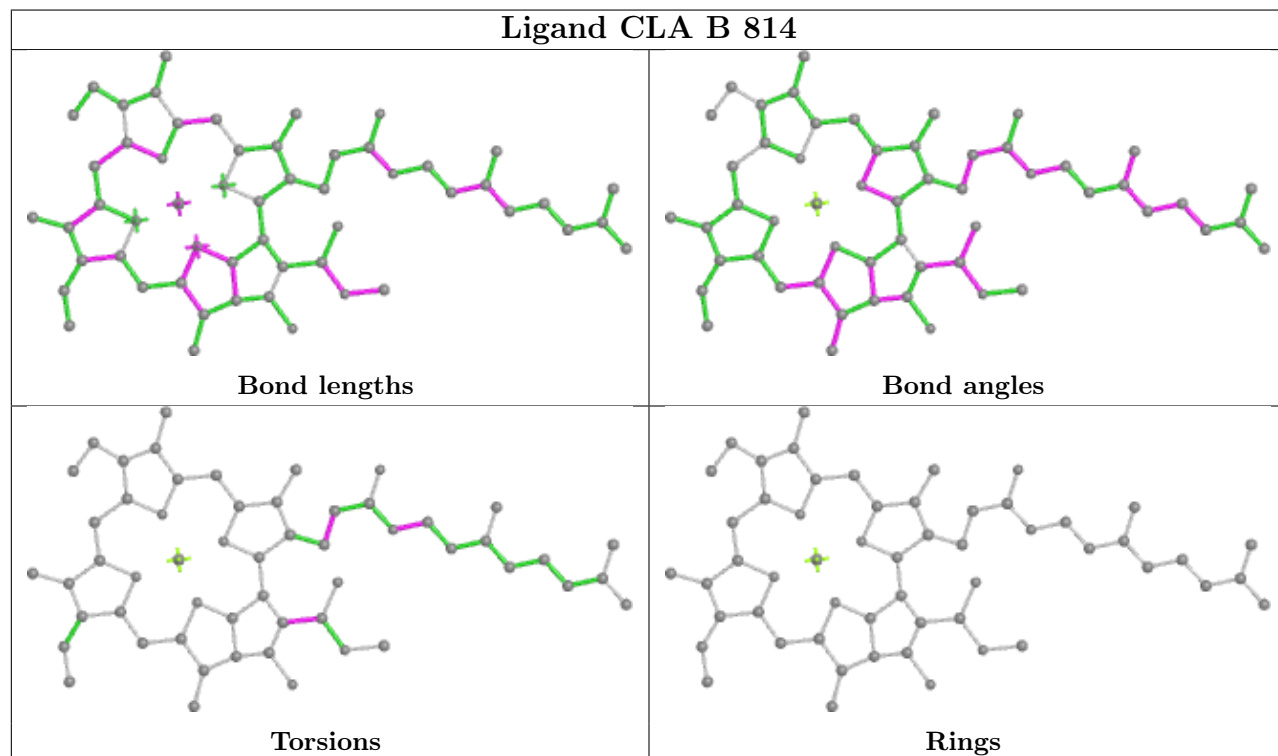
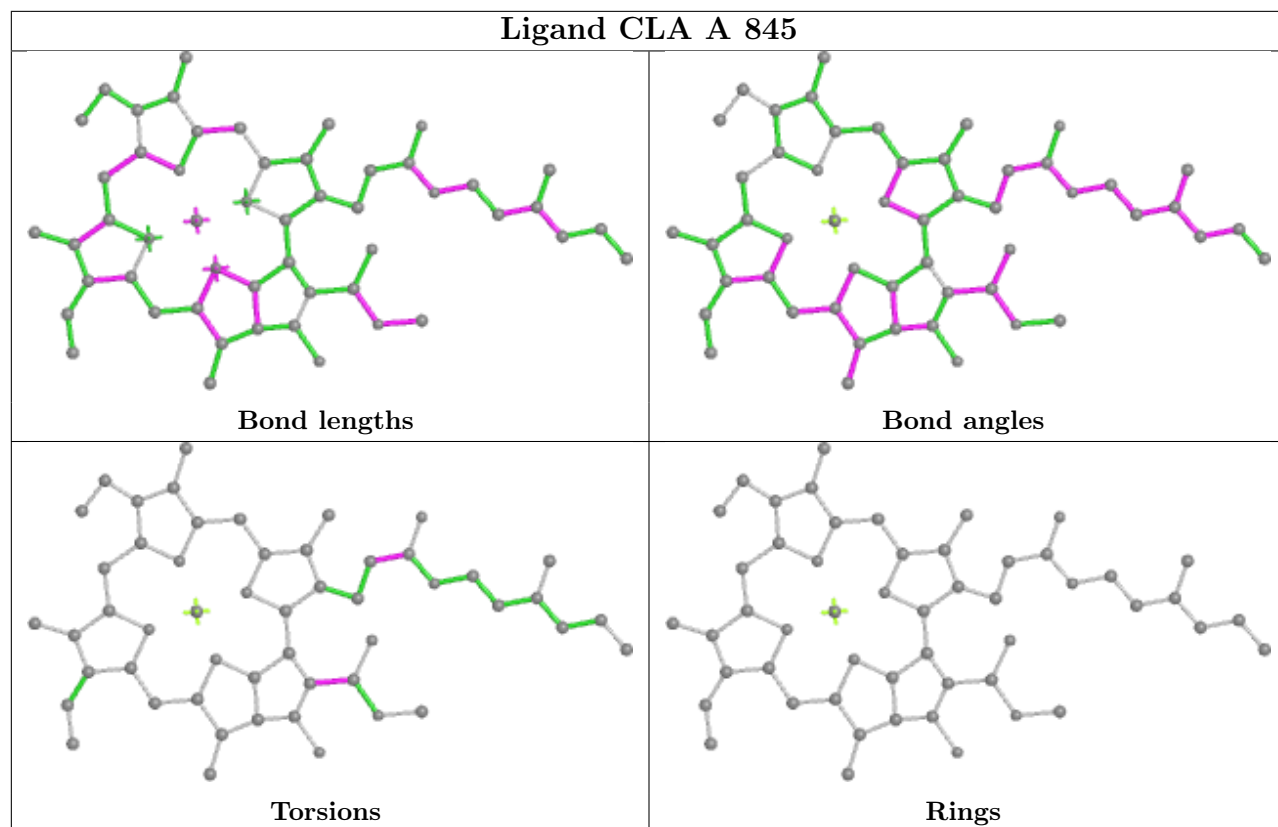


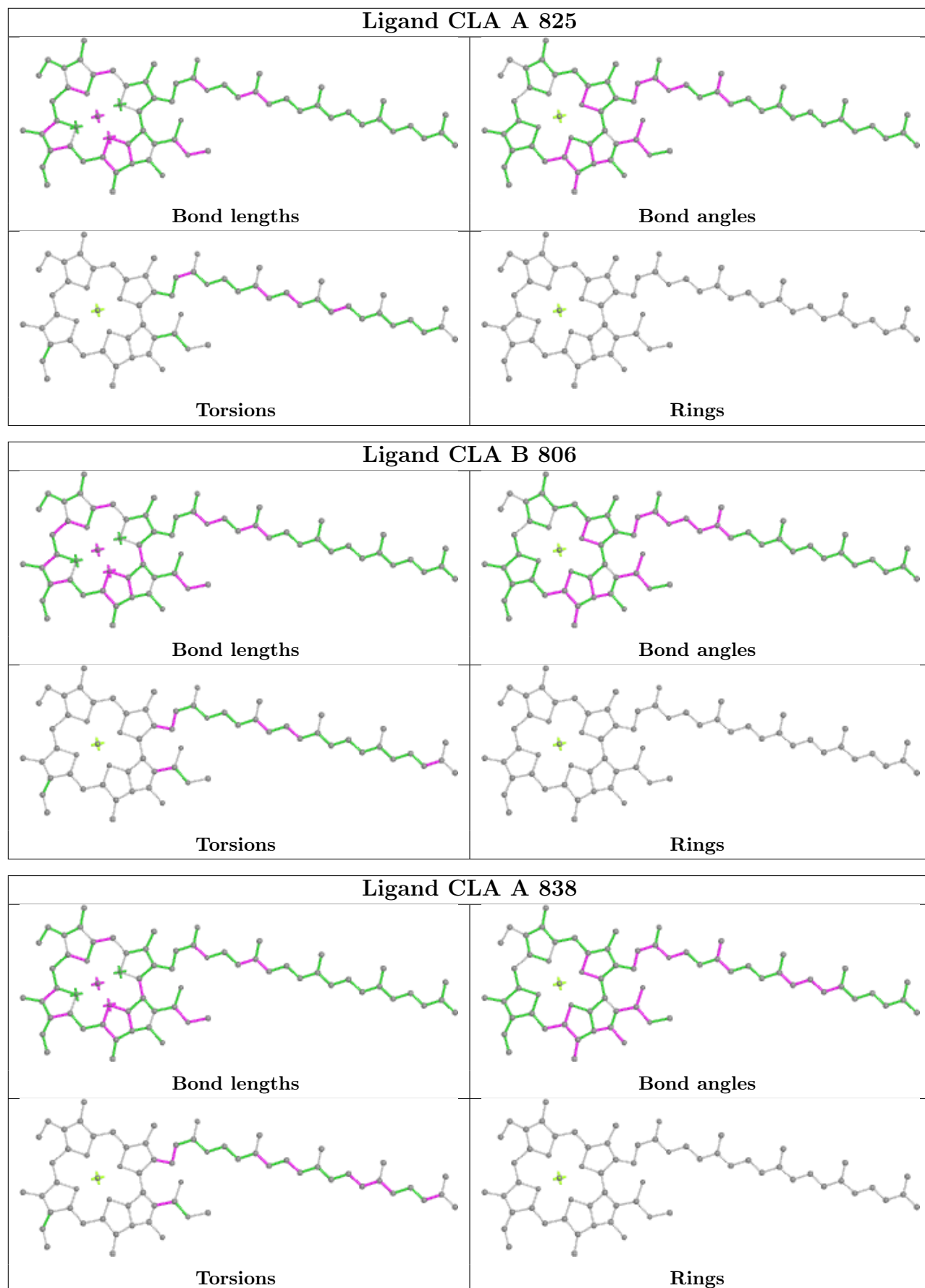


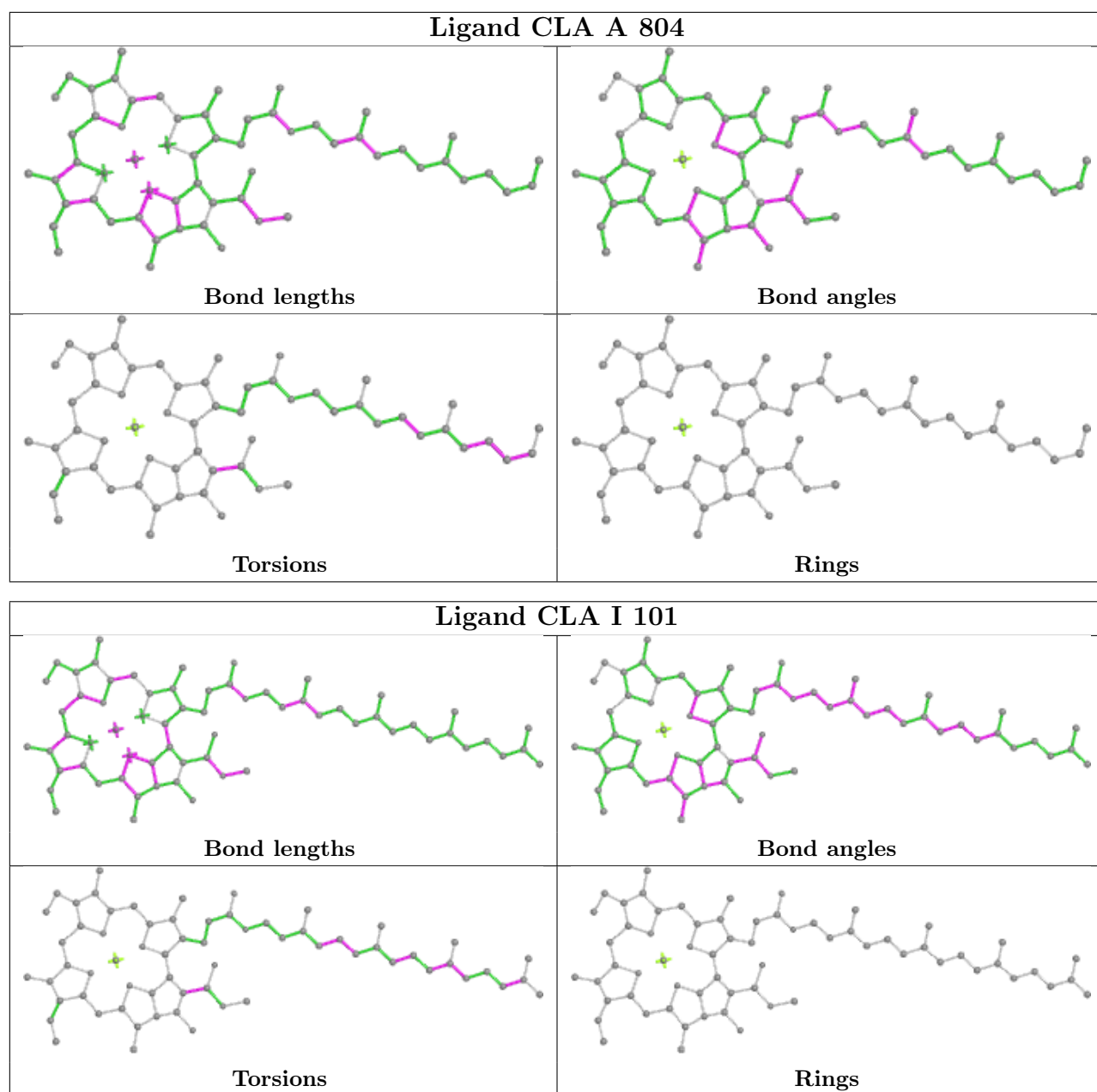


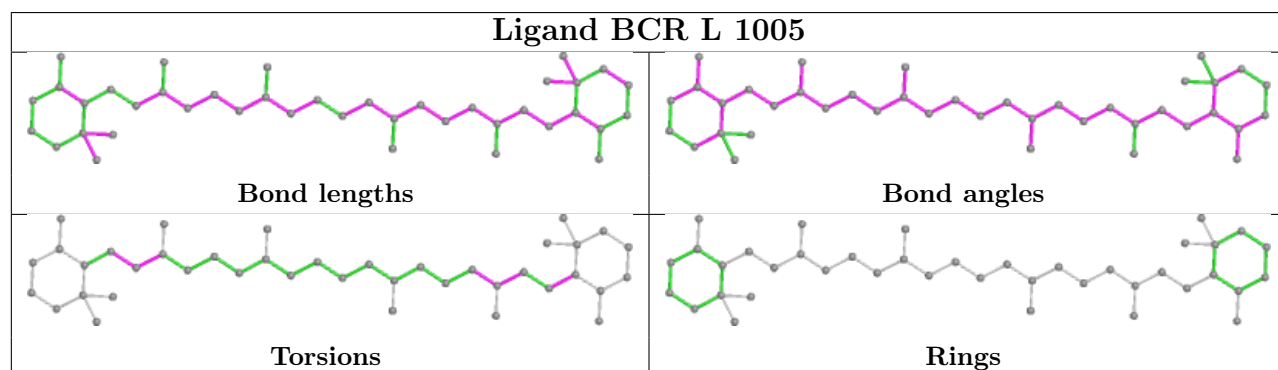
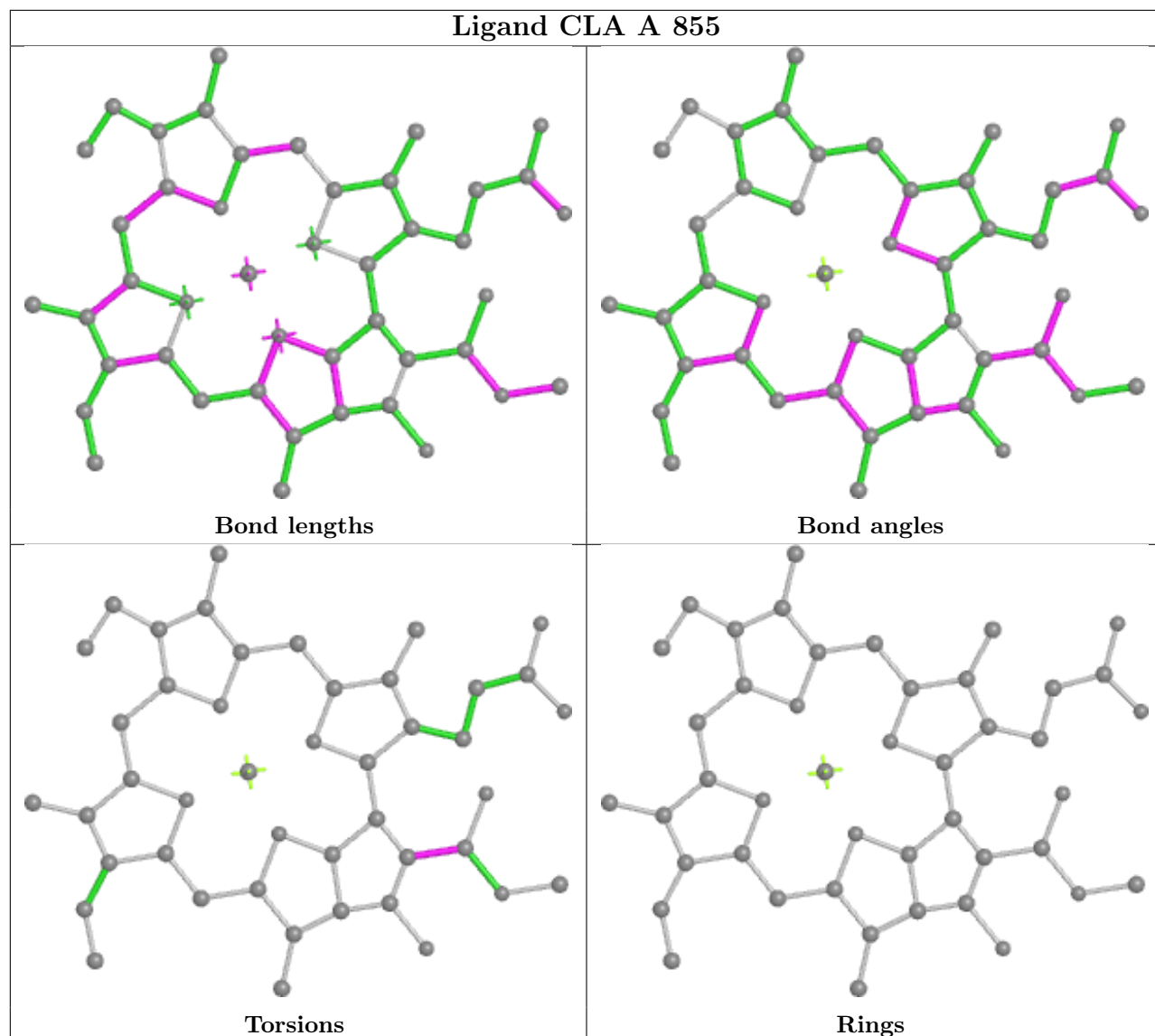


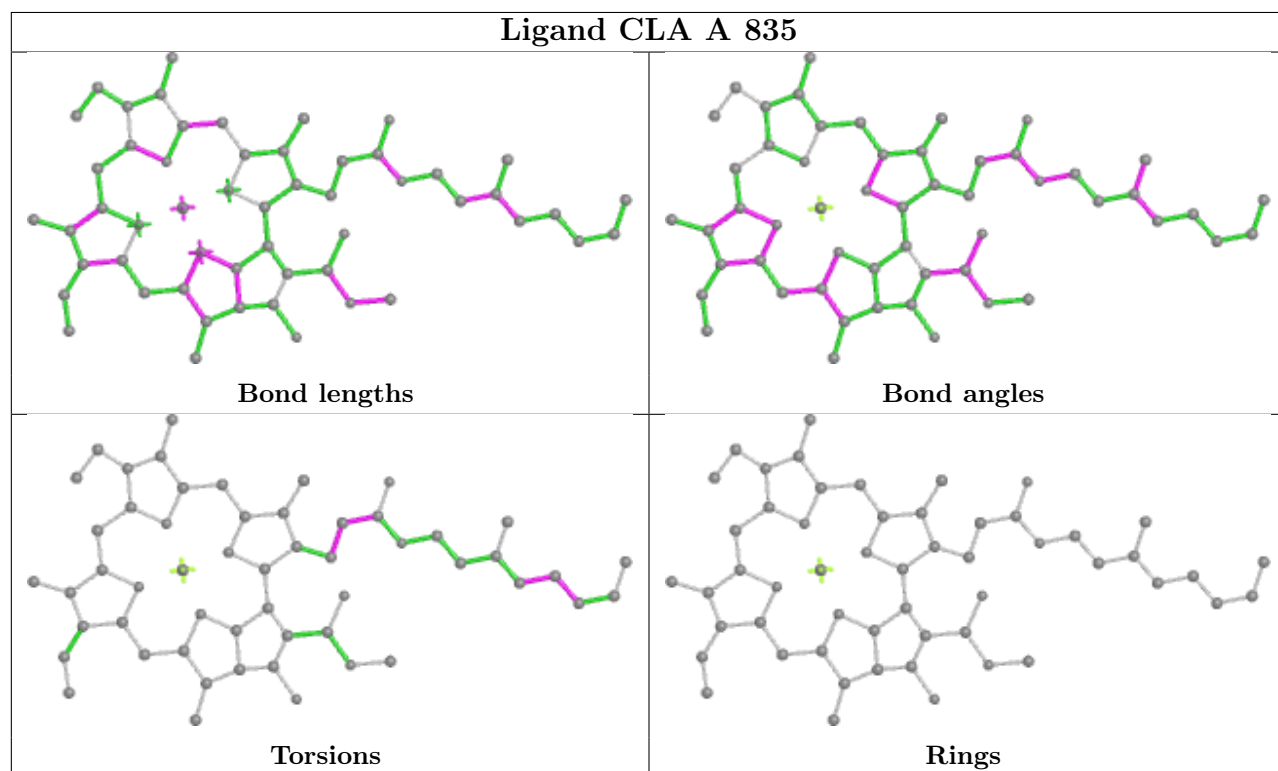
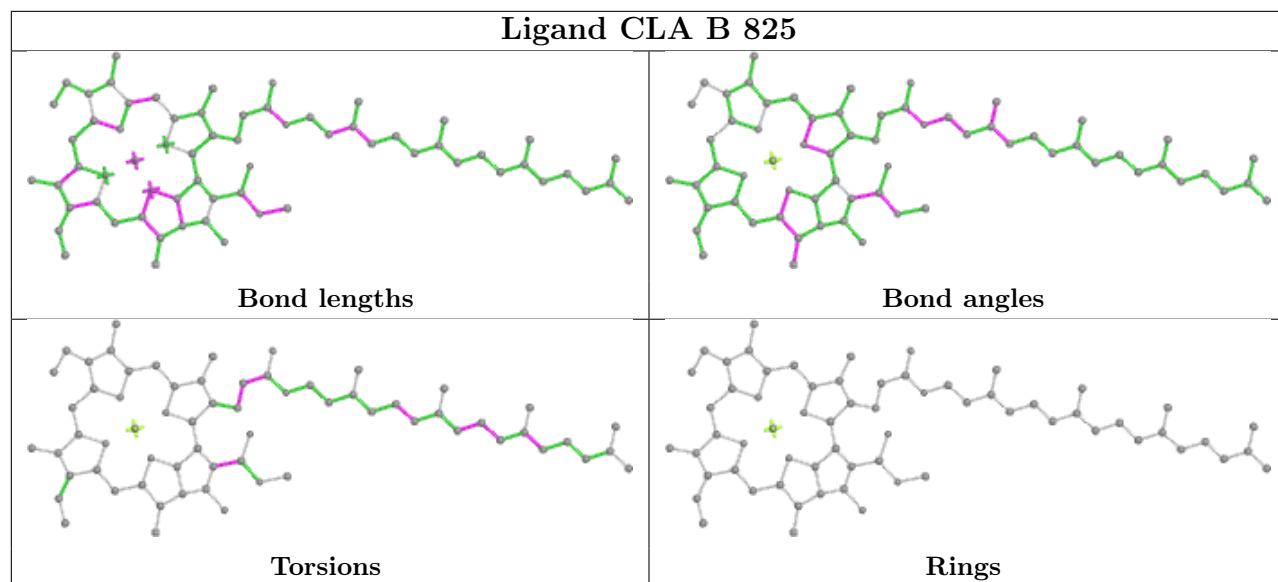


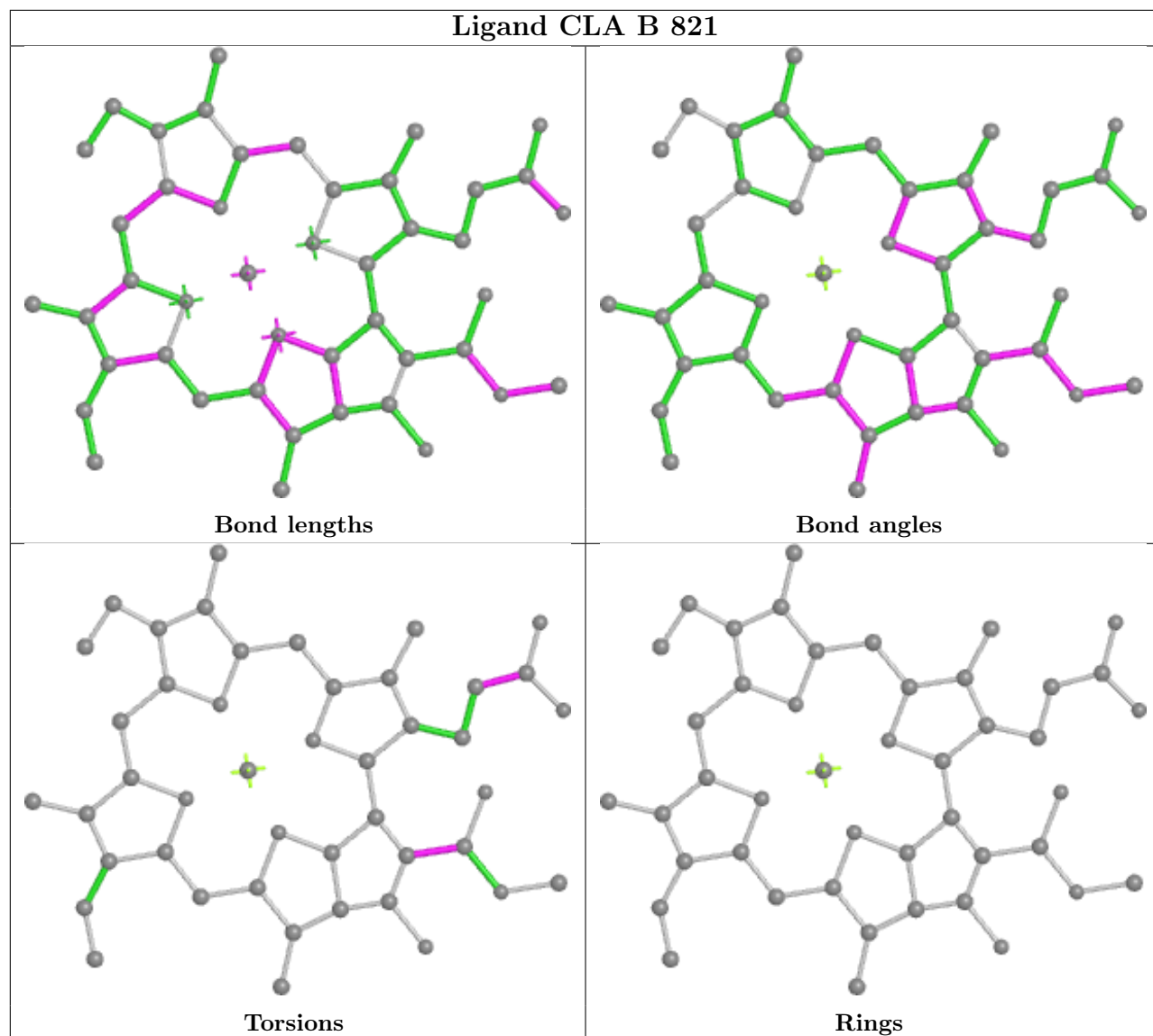


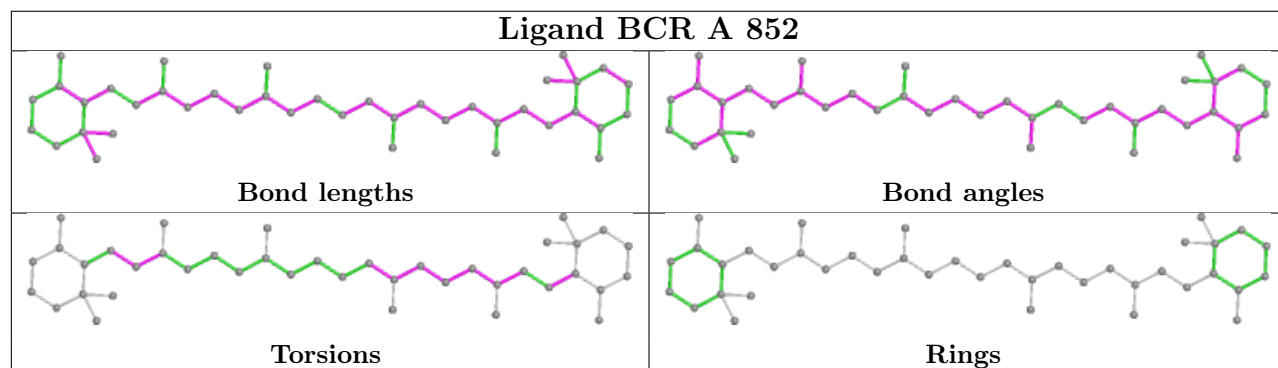
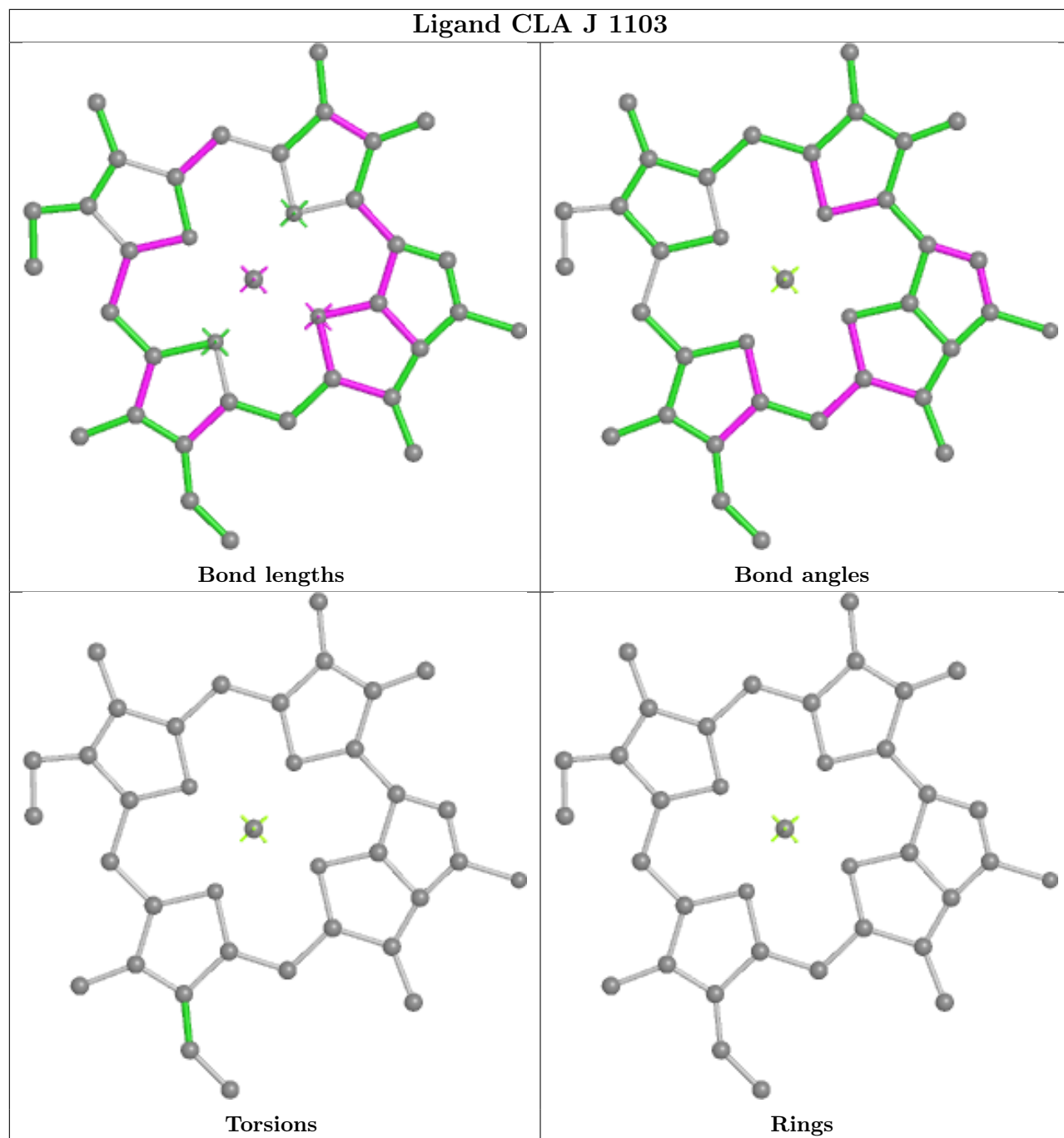


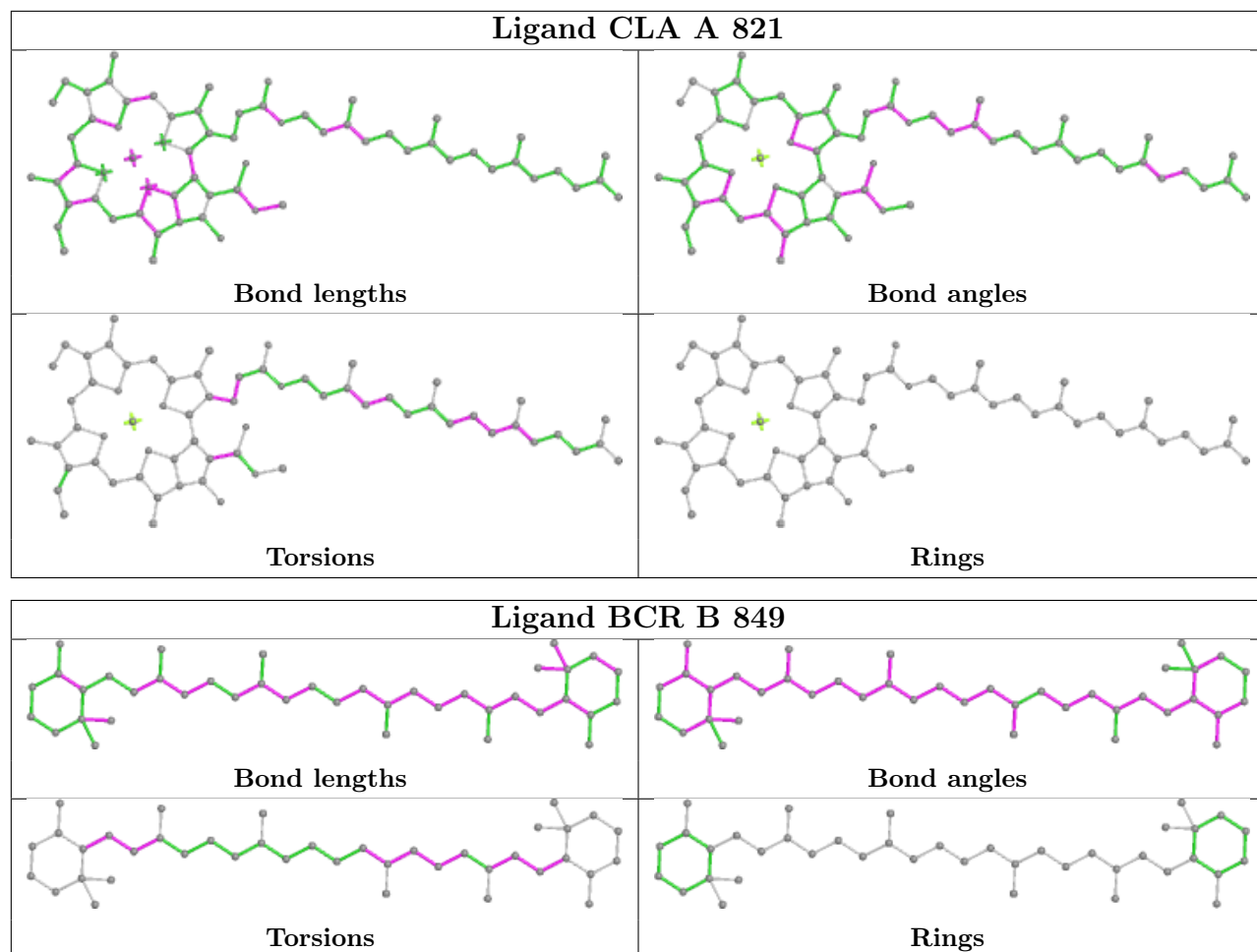


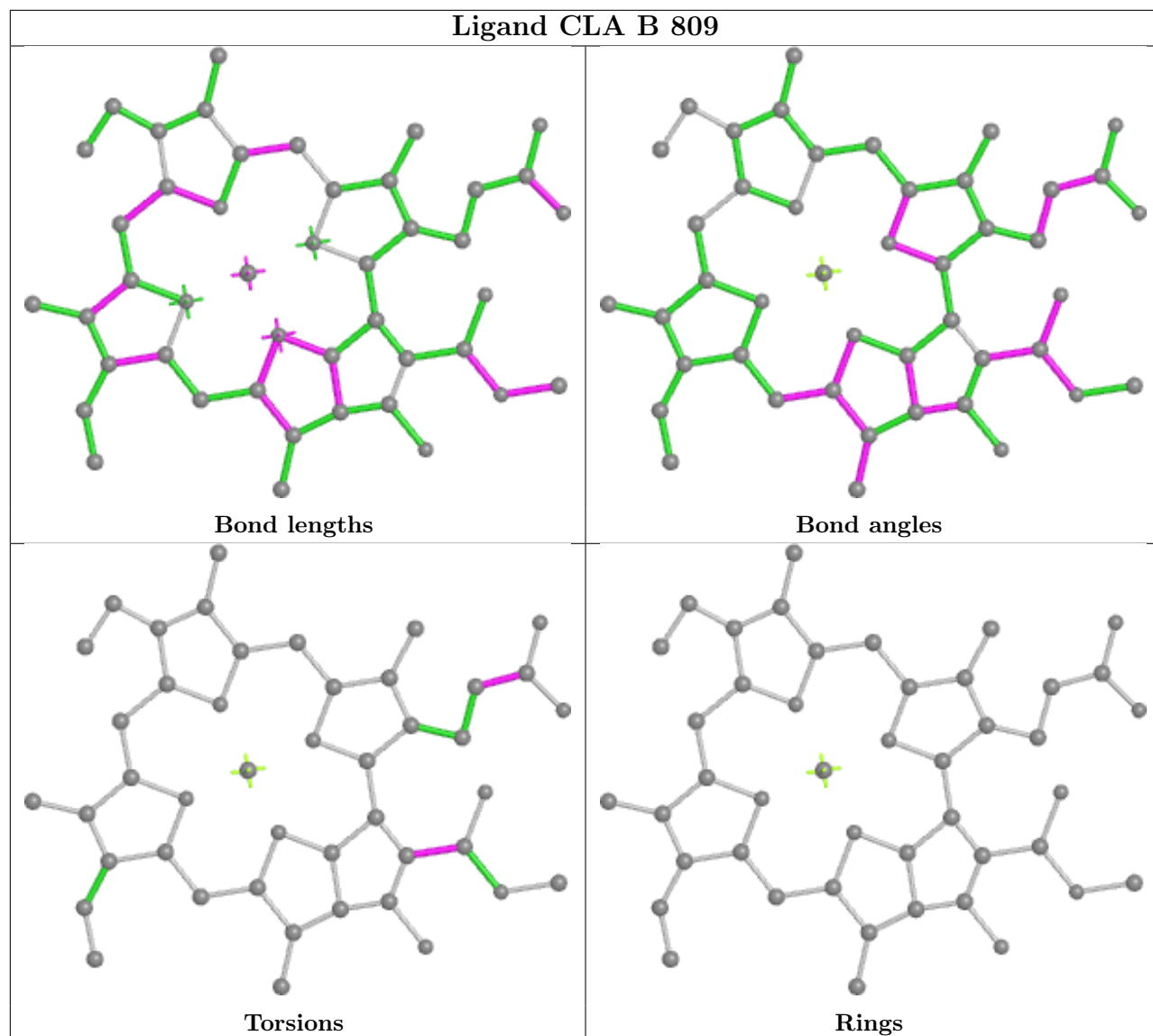


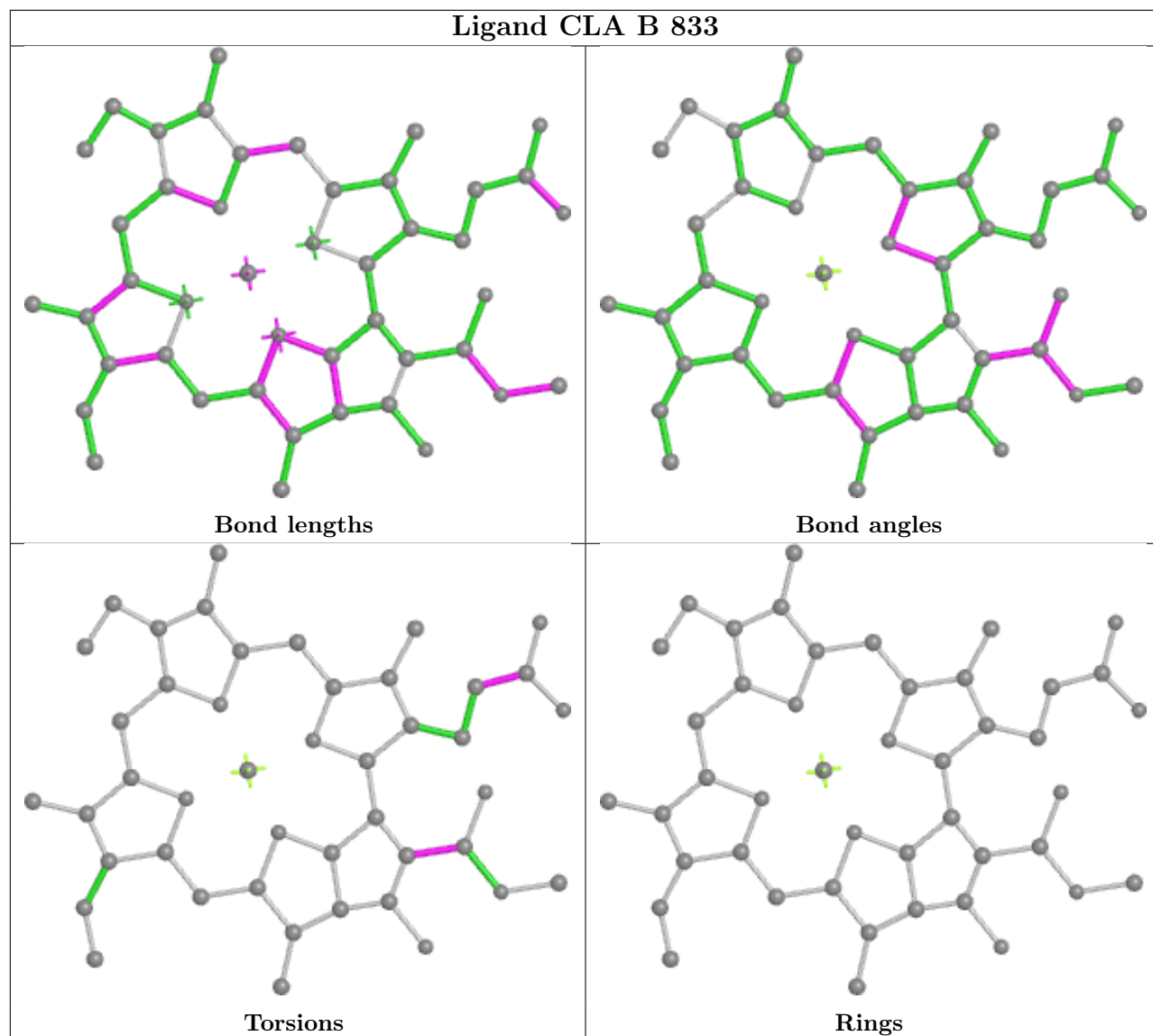


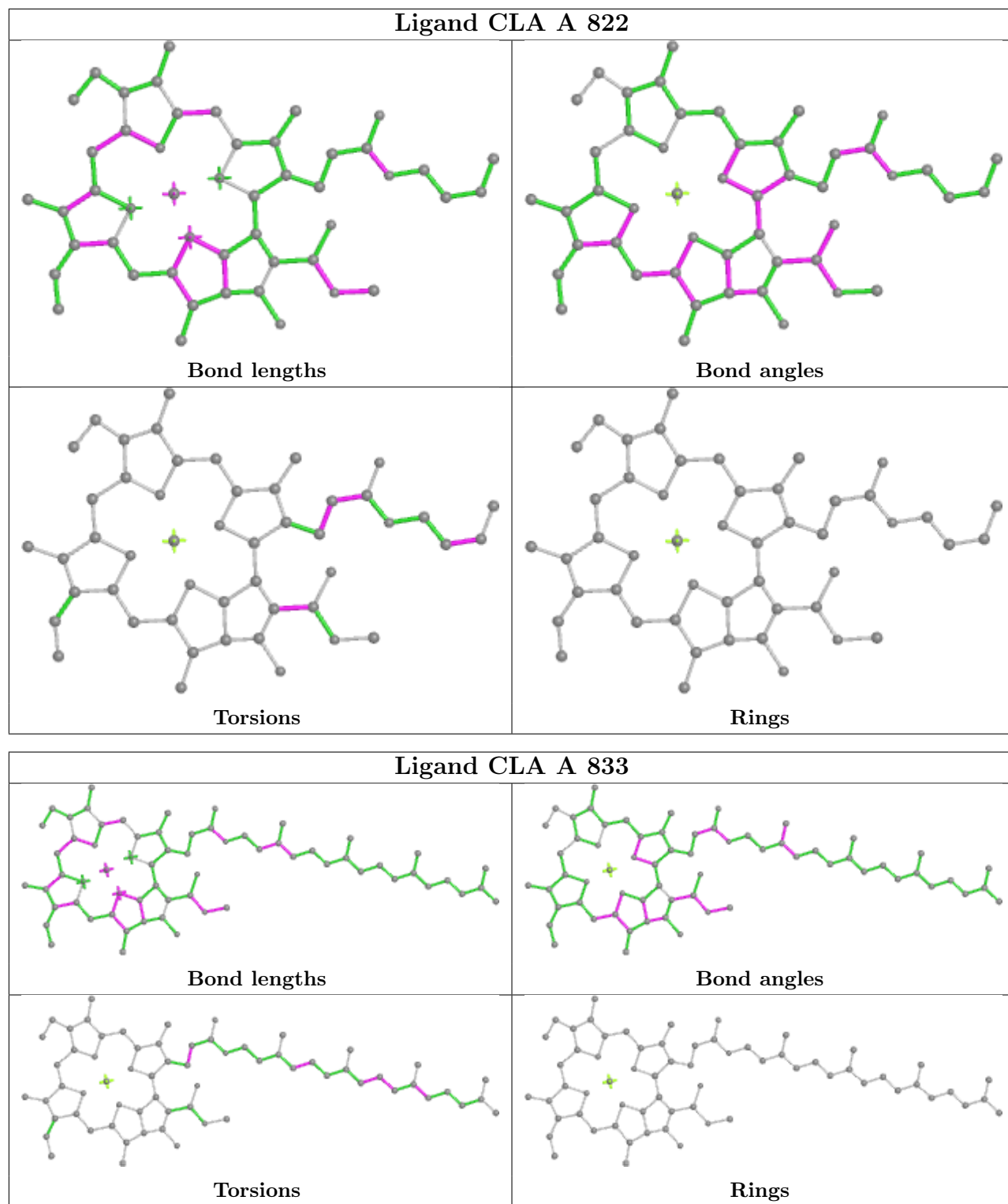


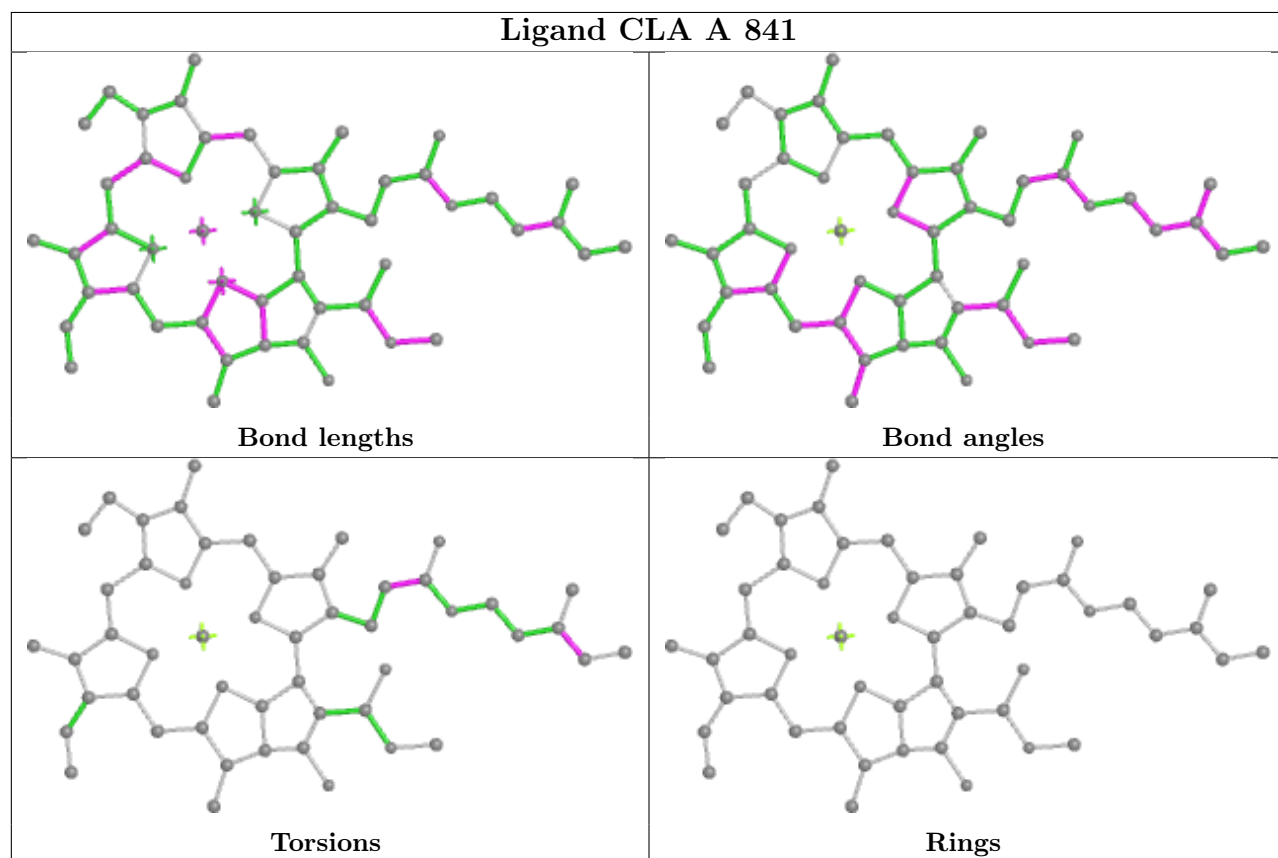
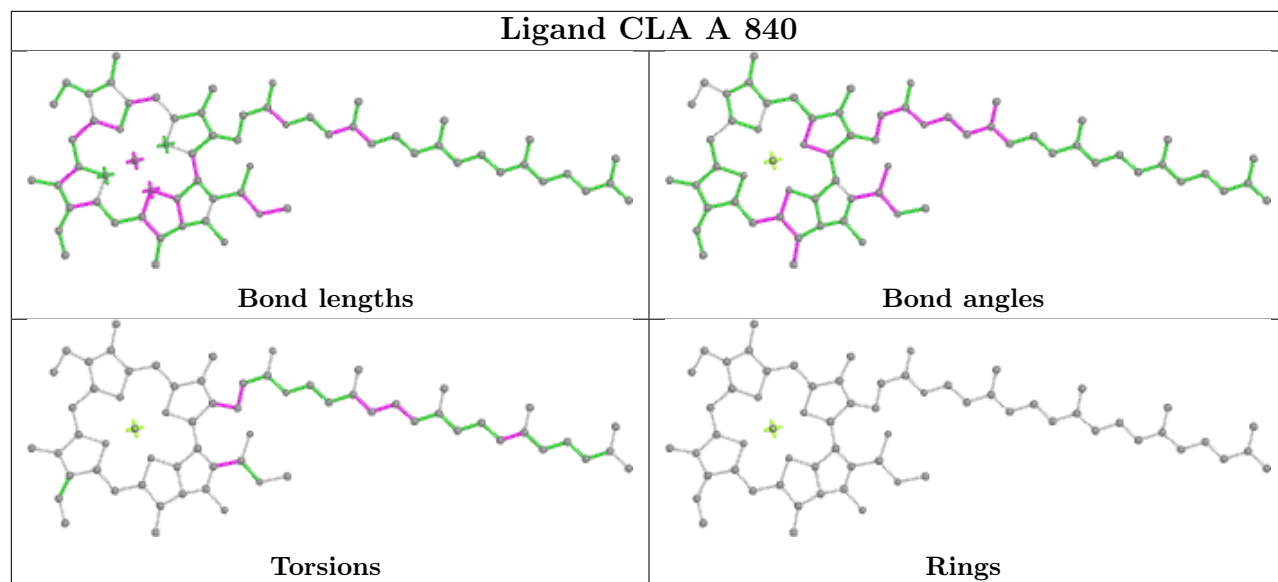


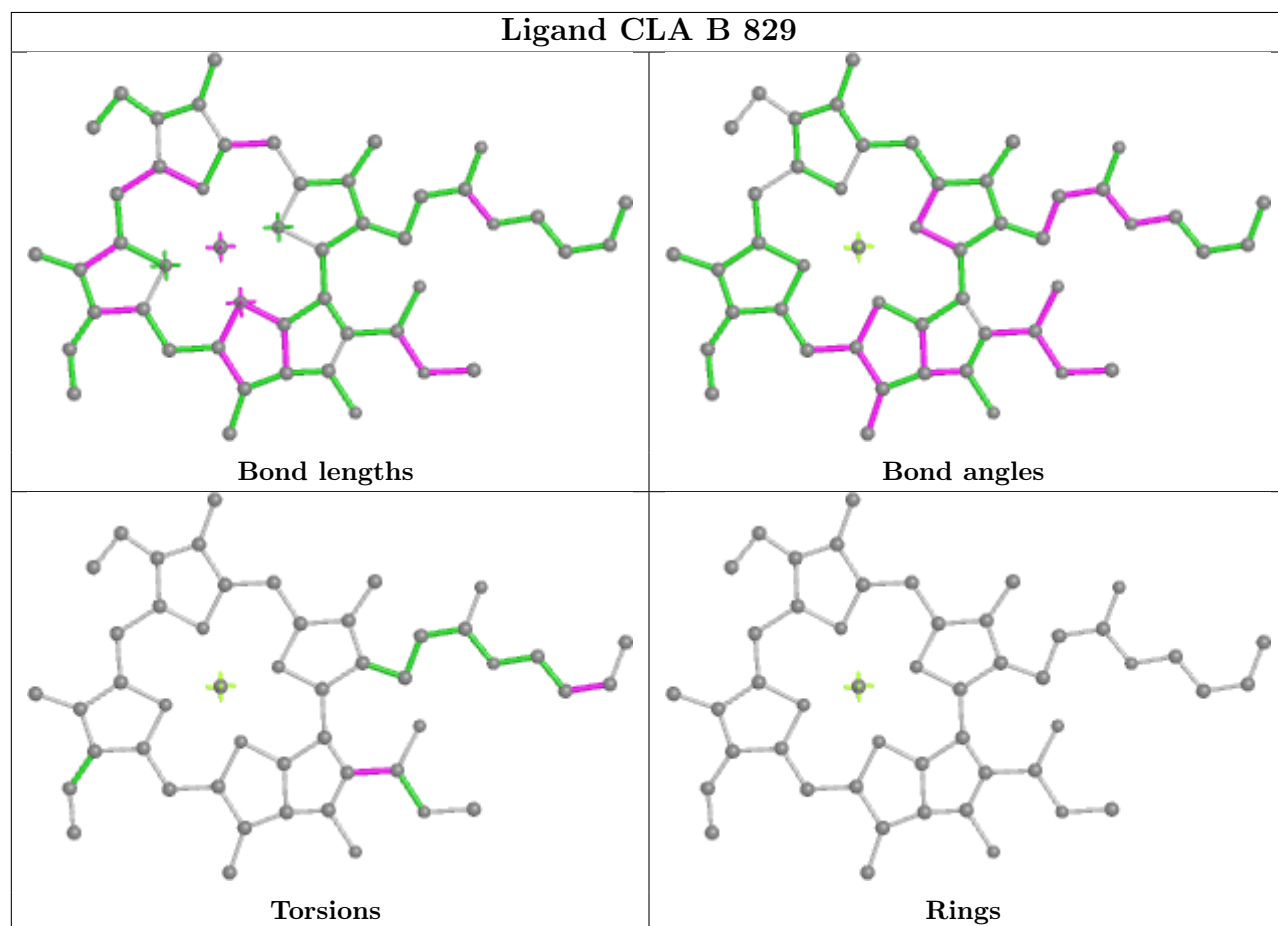
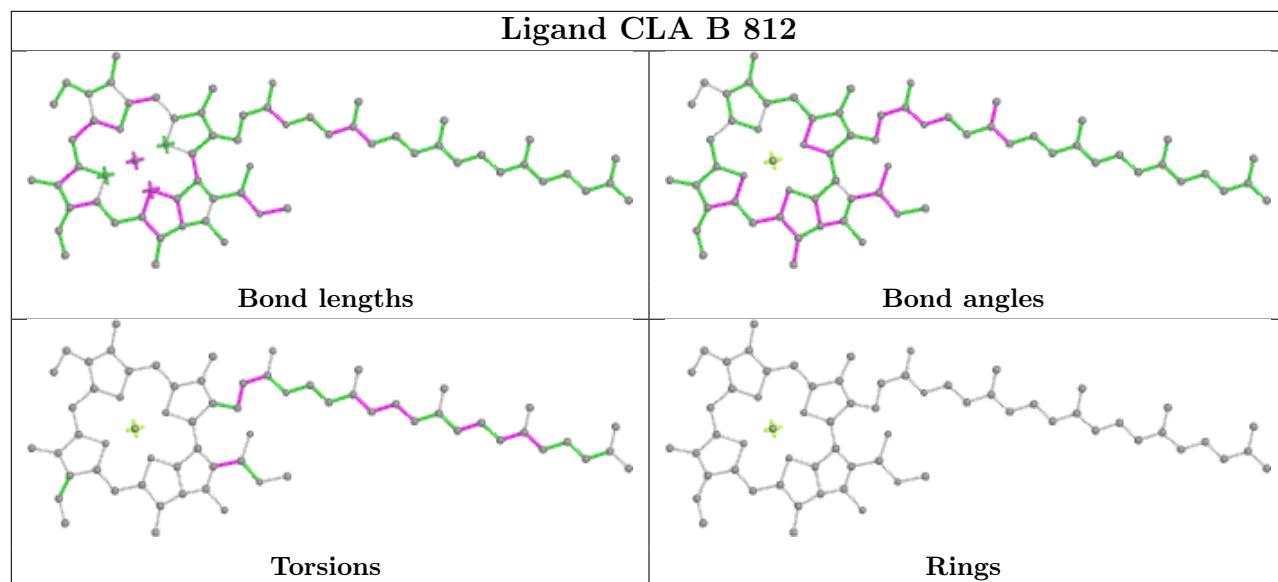


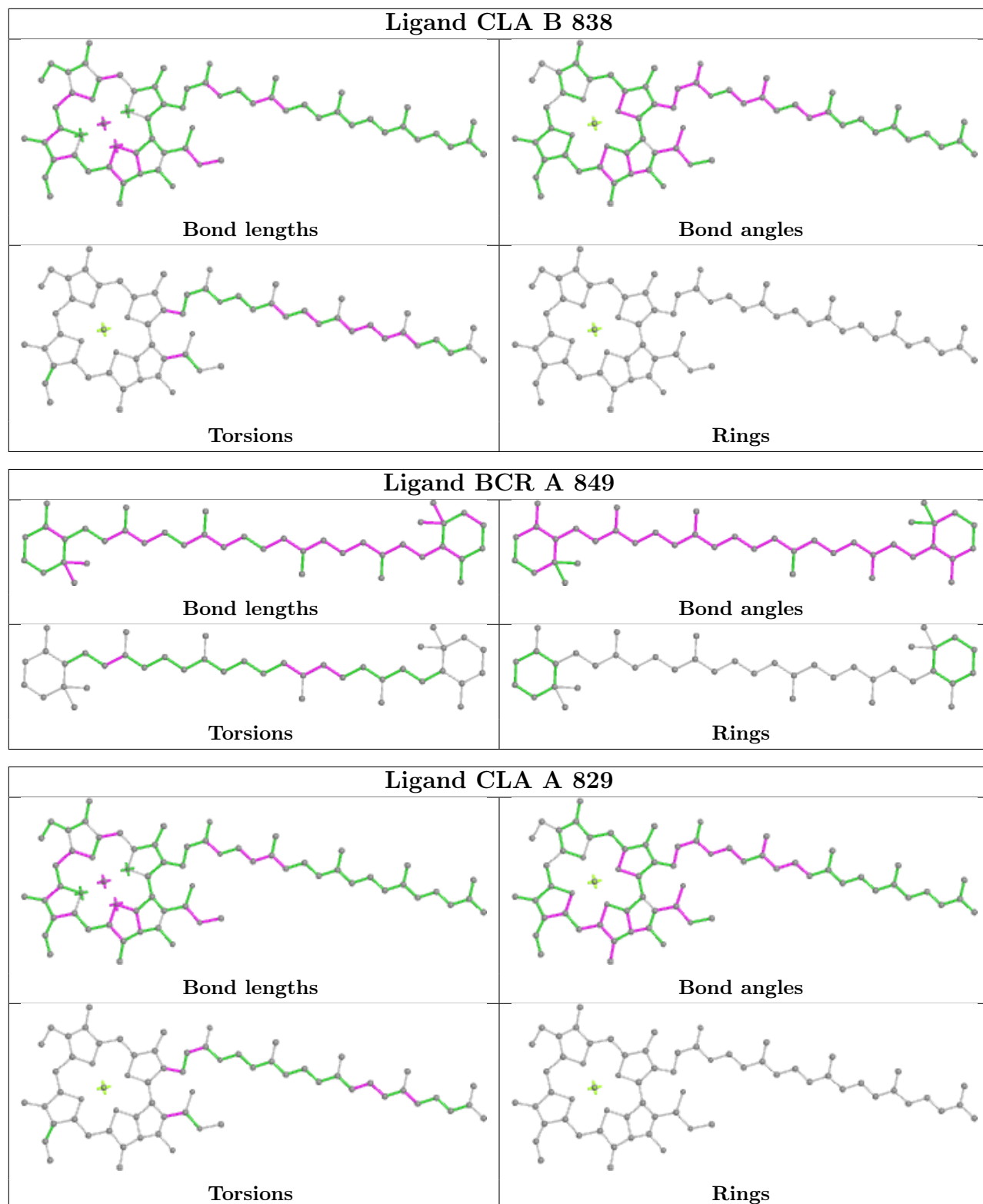


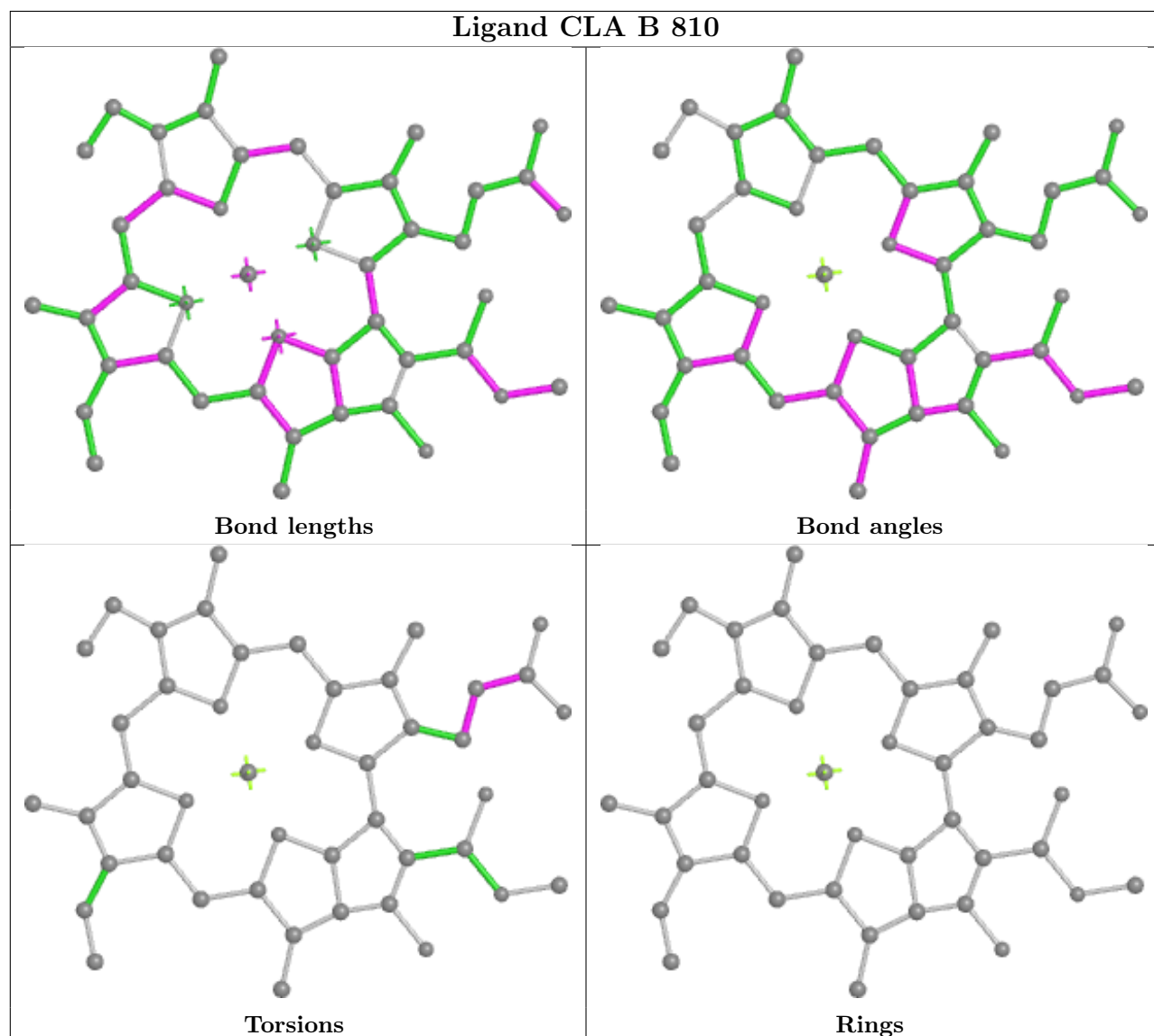
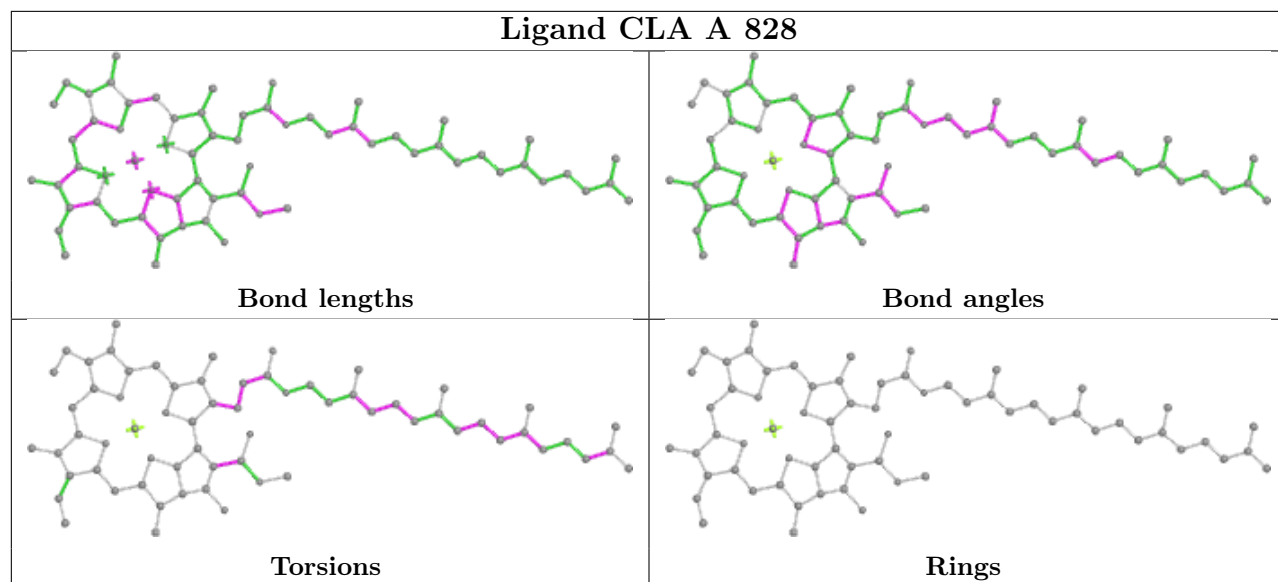


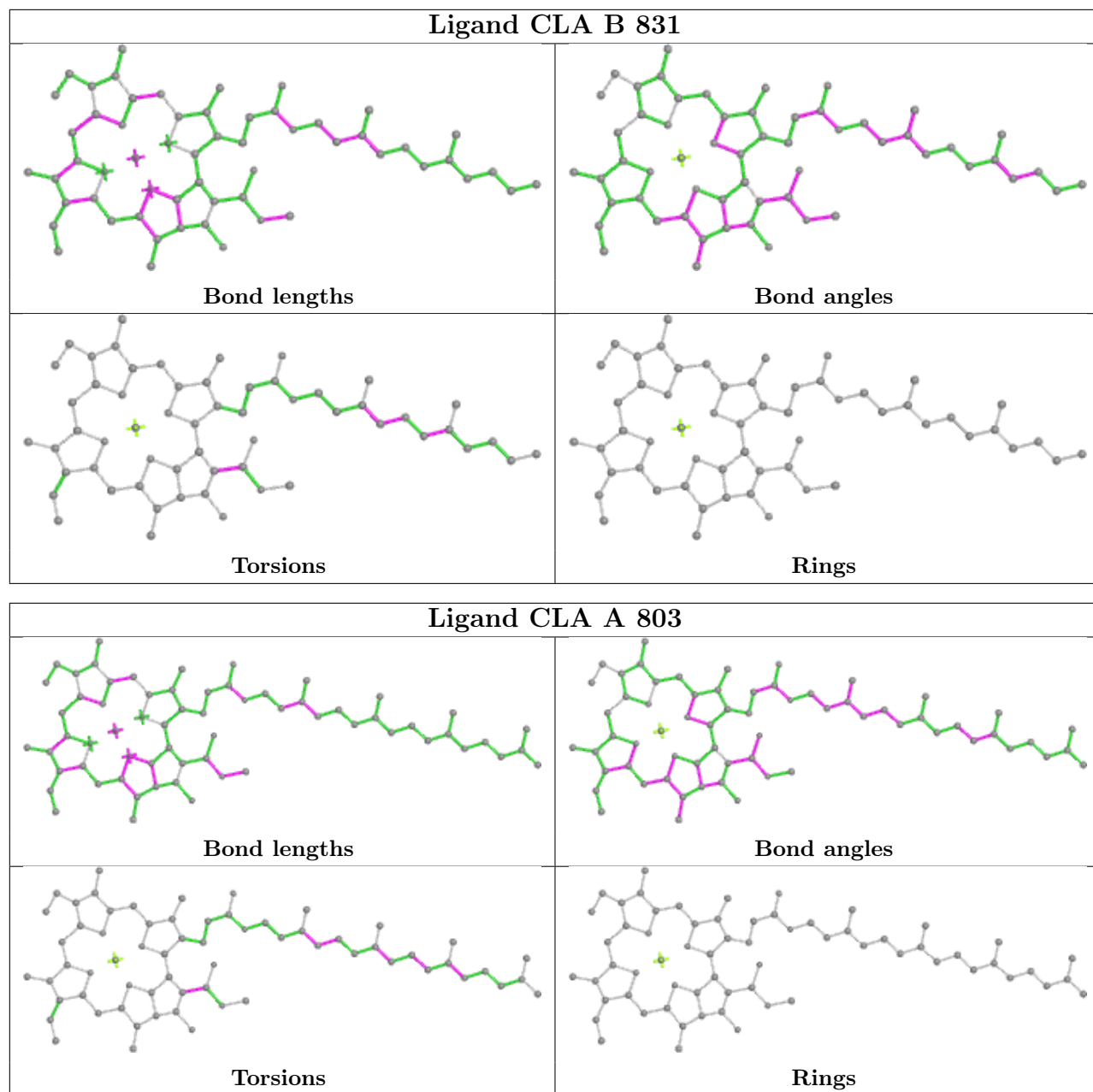


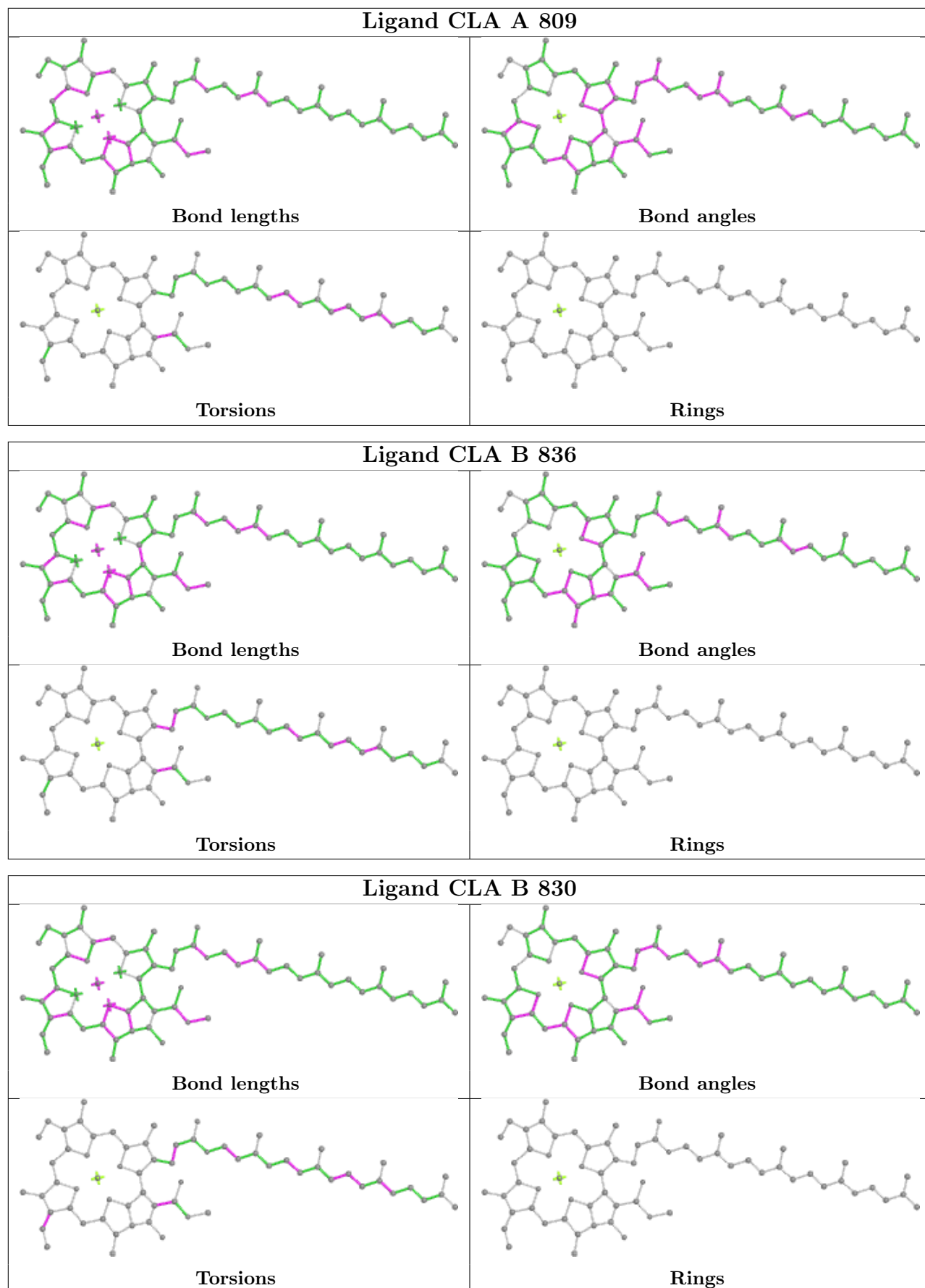












5.7 Other polymers [i](#)

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%)	0.11	22 (2%) 50 40	42, 99, 157, 202	0
2	B	739/740 (99%)	0.01	10 (1%) 75 65	34, 76, 126, 215	0
3	C	80/80 (100%)	-0.41	0 100 100	46, 72, 126, 138	0
4	D	138/138 (100%)	0.00	0 100 100	45, 72, 117, 137	0
5	E	69/75 (92%)	0.39	1 (1%) 75 65	77, 100, 148, 194	0
6	F	141/164 (85%)	-0.23	1 (0%) 87 82	54, 83, 136, 158	0
7	I	38/38 (100%)	0.14	0 100 100	10, 36, 74, 78	0
8	J	41/41 (100%)	-0.62	0 100 100	65, 89, 136, 165	0
9	K	46/83 (55%)	-0.41	0 100 100	55, 87, 141, 169	0
10	L	151/154 (98%)	-0.18	1 (0%) 87 82	14, 49, 104, 140	0
11	M	31/31 (100%)	-0.03	0 100 100	31, 51, 80, 92	0
12	X	29/35 (82%)	-0.27	1 (3%) 45 37	59, 80, 120, 155	0
All	All	2243/2334 (96%)	-0.01	36 (1%) 72 62	10, 81, 141, 215	0

All (36) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	19	ASP	4.2
1	A	24	SER	3.5
10	L	146	ASP	3.4
1	A	18	ASN	3.3
2	B	497	ASN	3.3
2	B	312	THR	3.2
1	A	22	PRO	3.1
2	B	87	ALA	3.1
6	F	95	ASN	3.1
1	A	21	VAL	3.0
1	A	515	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	34	PHE	2.8
5	E	52	ALA	2.8
2	B	309	PHE	2.7
1	A	234	LYS	2.7
1	A	17	ASP	2.7
2	B	90	ILE	2.7
2	B	489	SER	2.6
1	A	40	ARG	2.6
1	A	33	HIS	2.5
1	A	244	LEU	2.5
2	B	672	SER	2.5
2	B	313	LYS	2.5
1	A	692	SER	2.5
1	A	516	ASP	2.4
1	A	182	LYS	2.4
1	A	289	THR	2.4
1	A	183	ARG	2.3
1	A	521	GLY	2.3
1	A	522	GLY	2.2
1	A	20	PRO	2.2
1	A	627	PRO	2.1
2	B	97	LYS	2.1
12	X	8	THR	2.0
1	A	499	GLY	2.0
2	B	407	LYS	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
13	CLA	A	844	41/65	0.67	0.40	116,136,148,281	0
13	CLA	A	815	45/65	0.73	0.64	111,150,177,185	0
13	CLA	M	1202	45/65	0.73	0.73	51,149,183,198	0
15	BCR	A	847	40/40	0.73	0.82	98,140,151,162	0
15	BCR	A	848	40/40	0.74	0.95	112,132,147,157	0
15	BCR	A	849	40/40	0.75	1.28	95,136,179,183	0
13	CLA	A	816	49/65	0.76	0.85	119,163,187,193	0
13	CLA	A	812	54/65	0.77	0.63	136,181,240,396	0
15	BCR	B	841	40/40	0.77	0.84	65,105,151,155	0
13	CLA	J	1102	45/65	0.78	0.38	75,111,128,280	0
13	CLA	A	836	45/65	0.79	0.47	63,96,163,234	0
13	CLA	A	810	45/65	0.79	0.50	109,136,151,223	0
15	BCR	B	850	40/40	0.80	0.42	83,107,144,146	0
16	LHG	X	101	23/49	0.80	0.40	78,81,207,208	0
15	BCR	A	850	40/40	0.81	0.90	56,96,126,139	0
13	CLA	B	834	45/65	0.81	0.54	91,118,151,158	0
13	CLA	A	807	51/65	0.81	0.51	87,100,151,177	0
13	CLA	A	827	65/65	0.81	0.72	68,103,137,248	0
13	CLA	A	813	60/65	0.82	0.60	115,146,178,366	0
13	CLA	B	819	45/65	0.82	0.50	98,131,171,173	0
13	CLA	A	822	49/65	0.82	0.47	102,126,157,235	0
18	LMG	B	848	55/55	0.82	0.67	42,51,67,114	0
13	CLA	A	845	52/65	0.83	0.44	56,78,188,214	0
13	CLA	A	855	45/65	0.83	0.40	95,118,140,153	0
13	CLA	B	814	55/65	0.83	0.70	77,122,182,325	0
15	BCR	F	1302	40/40	0.83	0.66	70,94,125,128	0
13	CLA	A	817	54/65	0.83	0.45	83,104,164,172	0
13	CLA	A	820	61/65	0.83	0.76	119,135,166,198	0
13	CLA	A	821	65/65	0.84	0.56	72,100,164,266	0
15	BCR	J	1105	40/40	0.84	0.43	63,67,71,71	0
13	CLA	B	810	45/65	0.85	0.49	47,84,145,182	0
13	CLA	B	831	58/65	0.85	0.46	80,101,148,333	0
13	CLA	A	835	54/65	0.85	0.50	54,79,117,204	0
13	CLA	B	813	45/65	0.86	0.40	51,86,132,141	0
15	BCR	B	843	40/40	0.86	0.60	45,59,82,86	0
13	CLA	B	820	55/65	0.86	0.49	77,105,141,146	0
13	CLA	B	828	45/65	0.86	0.43	70,80,132,193	0
13	CLA	A	823	51/65	0.86	0.51	74,129,153,156	0
16	LHG	A	853	49/49	0.86	0.69	57,74,107,127	0
13	CLA	B	833	45/65	0.86	0.47	77,104,141,148	0
13	CLA	B	818	47/65	0.86	0.61	56,99,146,292	0
15	BCR	A	852	40/40	0.87	0.82	78,107,149,162	0
13	CLA	B	829	49/65	0.87	0.47	80,85,125,141	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
13	CLA	A	840	65/65	0.87	0.44	77,87,117,198	0
13	CLA	M	1201	54/65	0.88	0.51	34,42,121,127	0
13	CLA	A	829	65/65	0.88	0.60	83,108,179,197	0
13	CLA	A	811	65/65	0.88	0.65	95,134,173,321	0
13	CLA	A	809	65/65	0.88	0.49	78,117,148,152	0
13	CLA	A	802	65/65	0.88	0.59	40,77,110,230	0
13	CLA	A	841	51/65	0.88	0.38	80,105,182,204	0
15	BCR	A	851	40/40	0.88	0.71	50,58,118,132	0
13	CLA	A	842	65/65	0.88	0.57	62,82,149,162	0
13	CLA	A	818	54/65	0.88	0.47	92,136,168,207	0
15	BCR	B	842	40/40	0.88	0.66	48,76,129,134	0
13	CLA	A	824	59/65	0.88	0.54	59,101,164,321	0
13	CLA	A	825	65/65	0.88	0.32	74,102,152,193	0
13	CLA	B	809	45/65	0.88	0.45	39,95,125,308	0
15	BCR	J	1104	40/40	0.88	0.82	64,78,113,120	0
13	CLA	B	835	60/65	0.88	0.32	65,106,240,292	0
15	BCR	M	1203	40/40	0.88	0.53	43,48,87,92	0
13	CLA	B	836	65/65	0.88	0.42	69,98,146,234	0
13	CLA	A	819	65/65	0.88	0.59	97,140,181,328	0
13	CLA	J	1103	37/65	0.88	0.31	85,117,155,158	0
13	CLA	B	832	45/65	0.89	0.39	71,121,142,247	0
13	CLA	A	804	59/65	0.89	0.59	83,99,117,144	0
13	CLA	B	803	65/65	0.89	0.64	40,68,95,180	0
13	CLA	B	806	65/65	0.89	0.45	33,63,107,170	0
13	CLA	B	807	65/65	0.89	0.63	38,65,106,122	0
13	CLA	F	1301	45/65	0.89	0.45	94,137,167,175	0
13	CLA	A	826	65/65	0.89	0.61	53,80,112,127	0
13	CLA	A	805	65/65	0.89	0.58	85,98,117,126	0
13	CLA	A	828	65/65	0.89	0.49	59,74,127,289	0
15	BCR	B	845	40/40	0.90	0.40	60,66,78,82	0
15	BCR	B	846	40/40	0.90	0.70	75,91,131,137	0
13	CLA	A	833	65/65	0.90	0.56	39,45,110,121	0
13	CLA	A	814	45/65	0.90	0.32	108,150,172,174	0
13	CLA	L	1004	65/65	0.90	0.44	21,31,64,72	0
13	CLA	B	817	65/65	0.90	0.48	57,65,113,125	0
13	CLA	A	831	50/65	0.90	0.39	45,76,105,144	0
13	CLA	B	838	65/65	0.90	0.54	35,45,102,125	0
13	CLA	A	843	65/65	0.90	0.49	56,83,169,197	0
15	BCR	B	844	25/40	0.90	0.44	65,68,113,118	0
13	CLA	X	102	45/65	0.91	0.26	67,104,127,283	0
14	PQN	B	840	33/33	0.91	0.73	56,84,105,121	0
13	CLA	B	804	65/65	0.91	0.57	45,51,117,199	0

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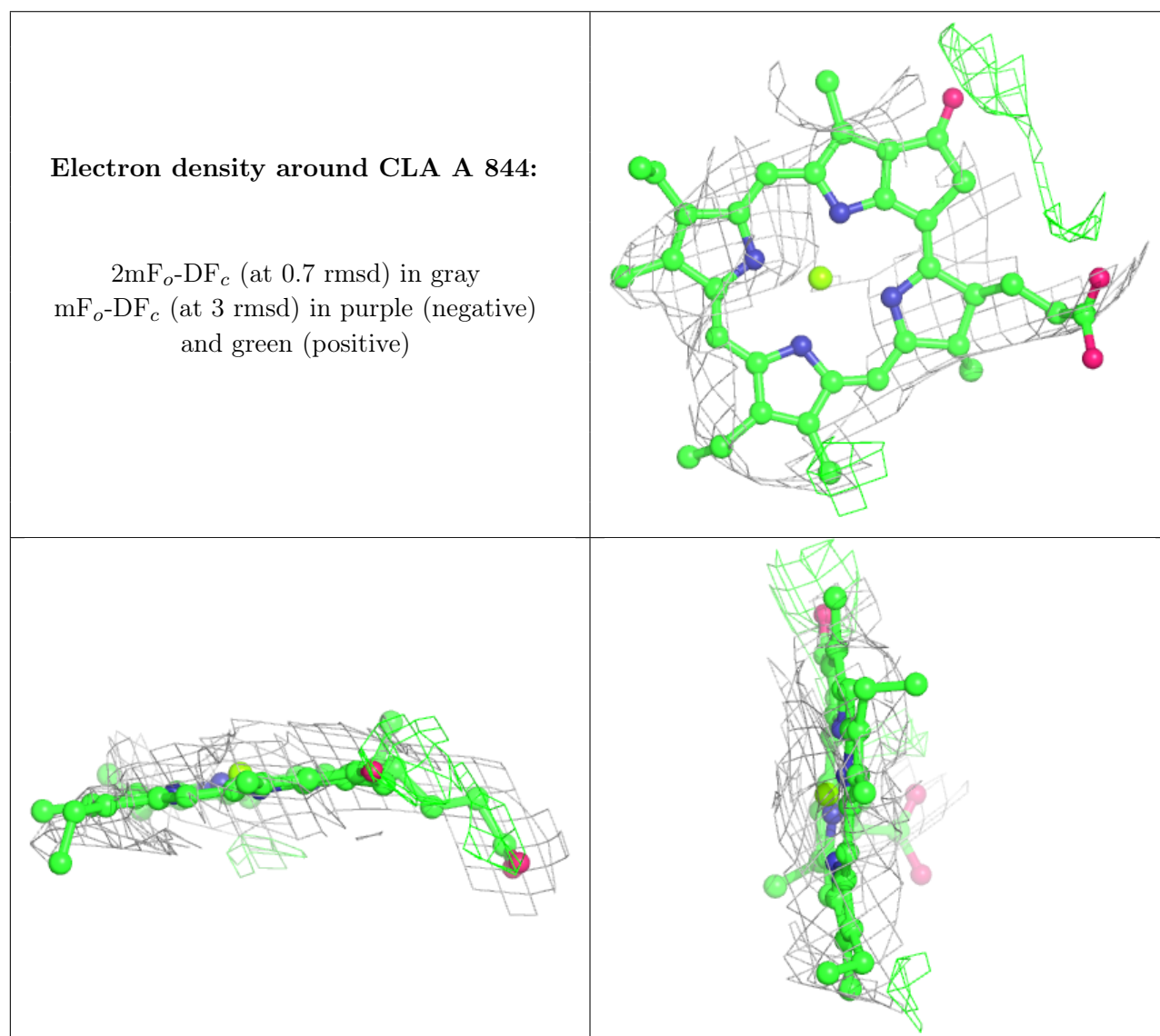
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
13	CLA	B	839	65/65	0.91	0.49	35,49,151,215	0
13	CLA	A	832	65/65	0.91	0.34	42,45,81,134	0
13	CLA	J	1101	65/65	0.91	0.52	77,129,178,357	0
13	CLA	A	806	65/65	0.91	0.57	63,80,155,164	0
13	CLA	A	830	65/65	0.91	0.51	59,71,105,119	0
13	CLA	B	802	65/65	0.91	0.53	61,82,112,165	0
16	LHG	A	854	27/49	0.91	0.37	49,58,88,122	0
13	CLA	B	824	65/65	0.91	0.38	58,65,88,96	0
13	CLA	A	808	65/65	0.91	0.40	72,89,172,177	0
13	CLA	L	1003	65/65	0.92	0.35	16,52,179,216	0
13	CLA	B	821	45/65	0.92	0.35	63,69,105,191	0
13	CLA	B	808	65/65	0.92	0.60	36,41,97,103	0
13	CLA	B	826	65/65	0.92	0.51	42,47,127,149	0
13	CLA	B	837	47/65	0.92	0.27	65,71,119,193	0
15	BCR	B	847	40/40	0.92	0.70	40,51,116,126	0
14	PQN	A	846	33/33	0.92	0.56	55,64,82,82	0
13	CLA	B	815	59/65	0.92	0.48	55,58,76,293	0
15	BCR	I	102	40/40	0.92	0.38	19,20,48,52	0
13	CLA	A	803	65/65	0.92	0.57	76,100,142,222	0
13	CLA	B	830	65/65	0.92	0.61	82,91,129,139	0
13	CLA	I	101	65/65	0.92	0.38	33,57,85,338	0
13	CLA	A	837	51/65	0.92	0.43	52,56,96,147	0
13	CLA	B	812	65/65	0.92	0.41	37,42,111,117	0
13	CLA	A	838	65/65	0.92	0.37	45,81,109,114	0
13	CLA	L	1002	65/65	0.92	0.36	29,65,103,148	0
13	CLA	B	825	65/65	0.93	0.47	40,60,136,157	0
15	BCR	L	1005	40/40	0.93	0.45	11,16,81,93	0
15	BCR	L	1006	40/40	0.93	0.29	16,24,64,78	0
15	BCR	B	849	40/40	0.93	0.41	12,43,147,152	0
13	CLA	B	801	65/65	0.93	0.42	57,68,123,322	0
13	CLA	B	827	65/65	0.93	0.47	44,66,95,108	0
13	CLA	B	811	65/65	0.93	0.58	48,71,108,145	0
13	CLA	A	834	65/65	0.93	0.44	39,40,92,96	0
13	CLA	A	839	47/65	0.94	0.31	48,51,119,202	0
13	CLA	B	816	60/65	0.94	0.54	46,53,111,221	0
13	CLA	A	801	65/65	0.94	0.49	44,53,82,89	0
13	CLA	B	822	54/65	0.94	0.44	61,86,118,158	0
13	CLA	B	823	46/65	0.94	0.28	59,68,120,137	0
13	CLA	B	805	65/65	0.94	0.41	41,48,97,150	0
19	CA	L	1001	1/1	0.94	0.14	22,22,22,22	0
17	SF4	C	102	8/8	0.99	0.16	47,48,122,359	0
17	SF4	A	856	8/8	0.99	0.22	49,50,150,174	0

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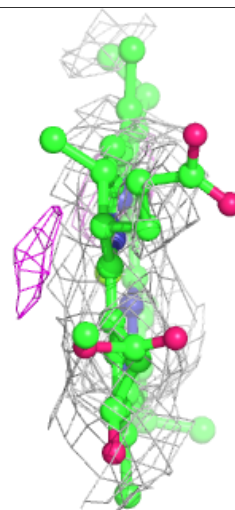
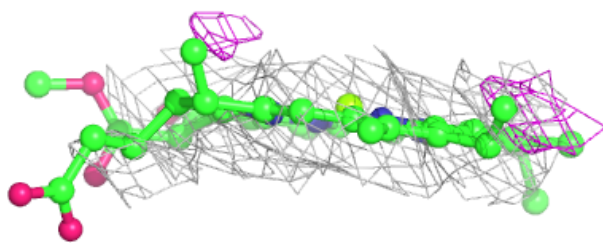
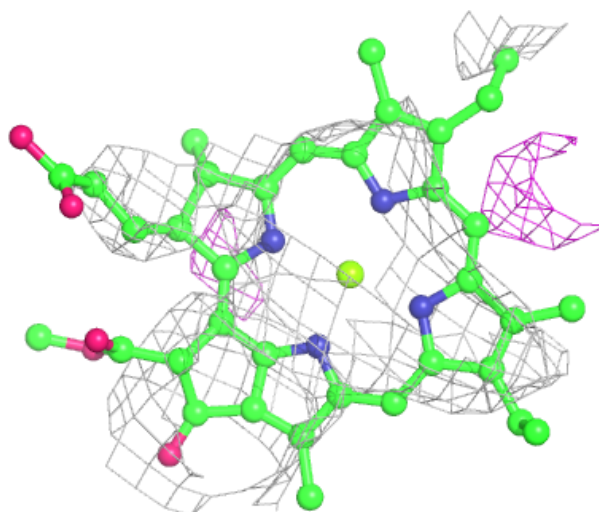
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
17	SF4	C	101	8/8	0.99	0.20	48,48,49,62	0

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.



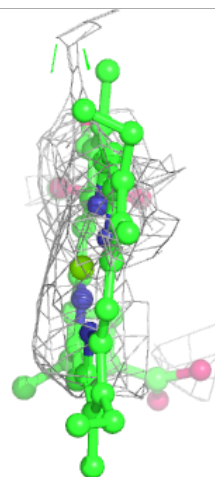
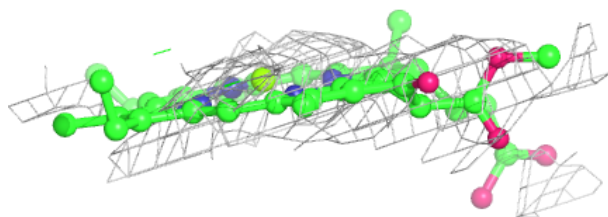
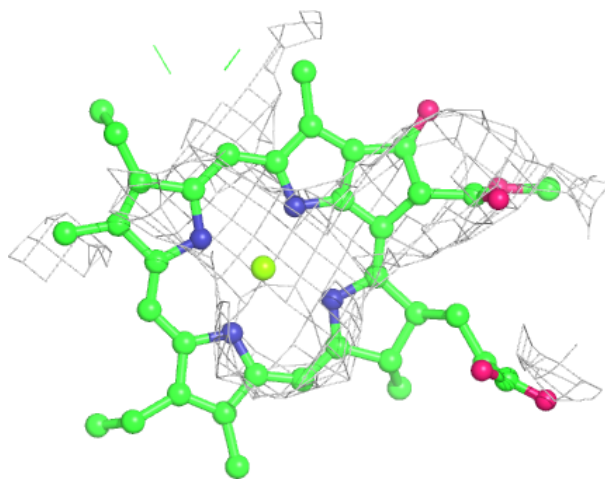
Electron density around CLA A 815:

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

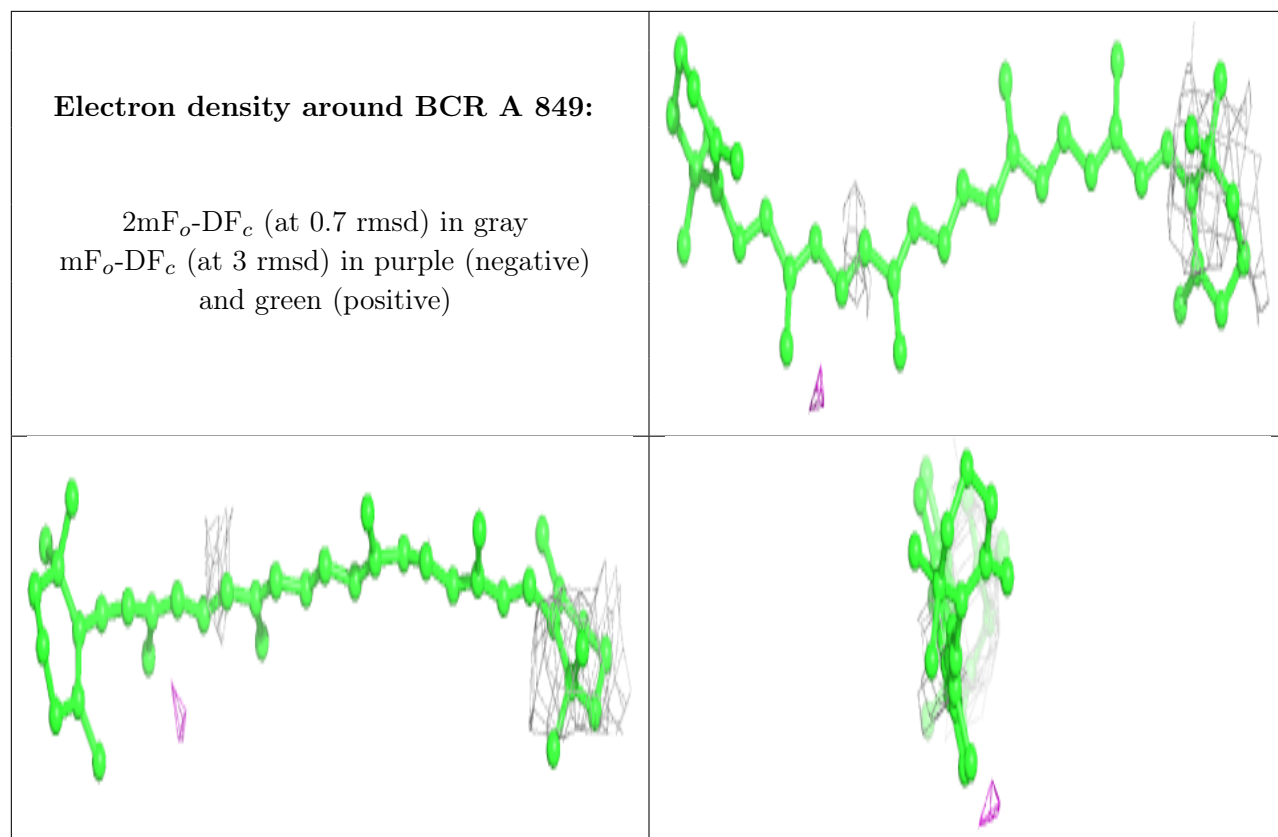


Electron density around CLA M 1202:

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

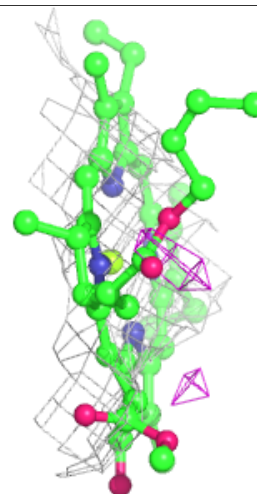
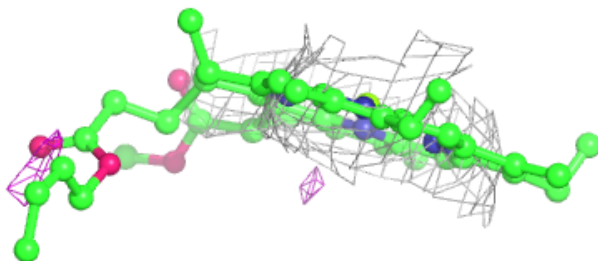
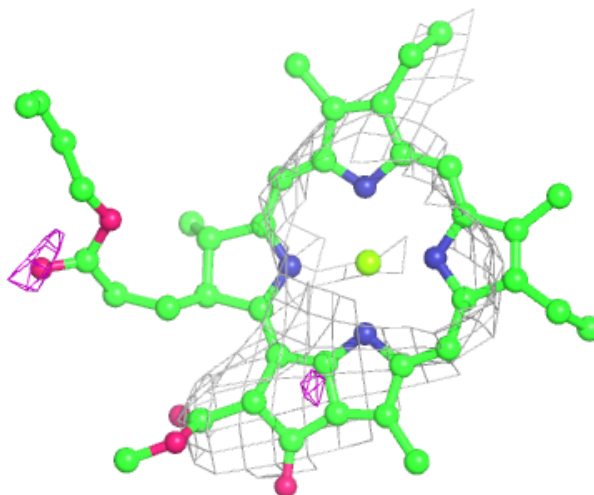






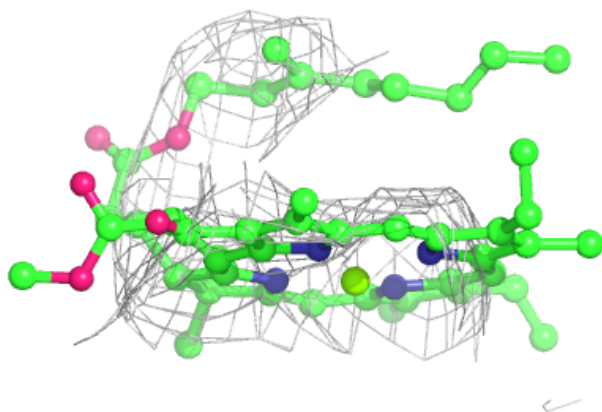
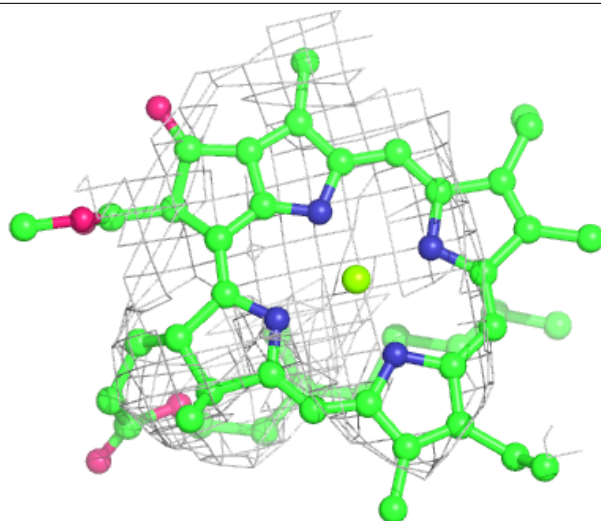
Electron density around CLA A 816:

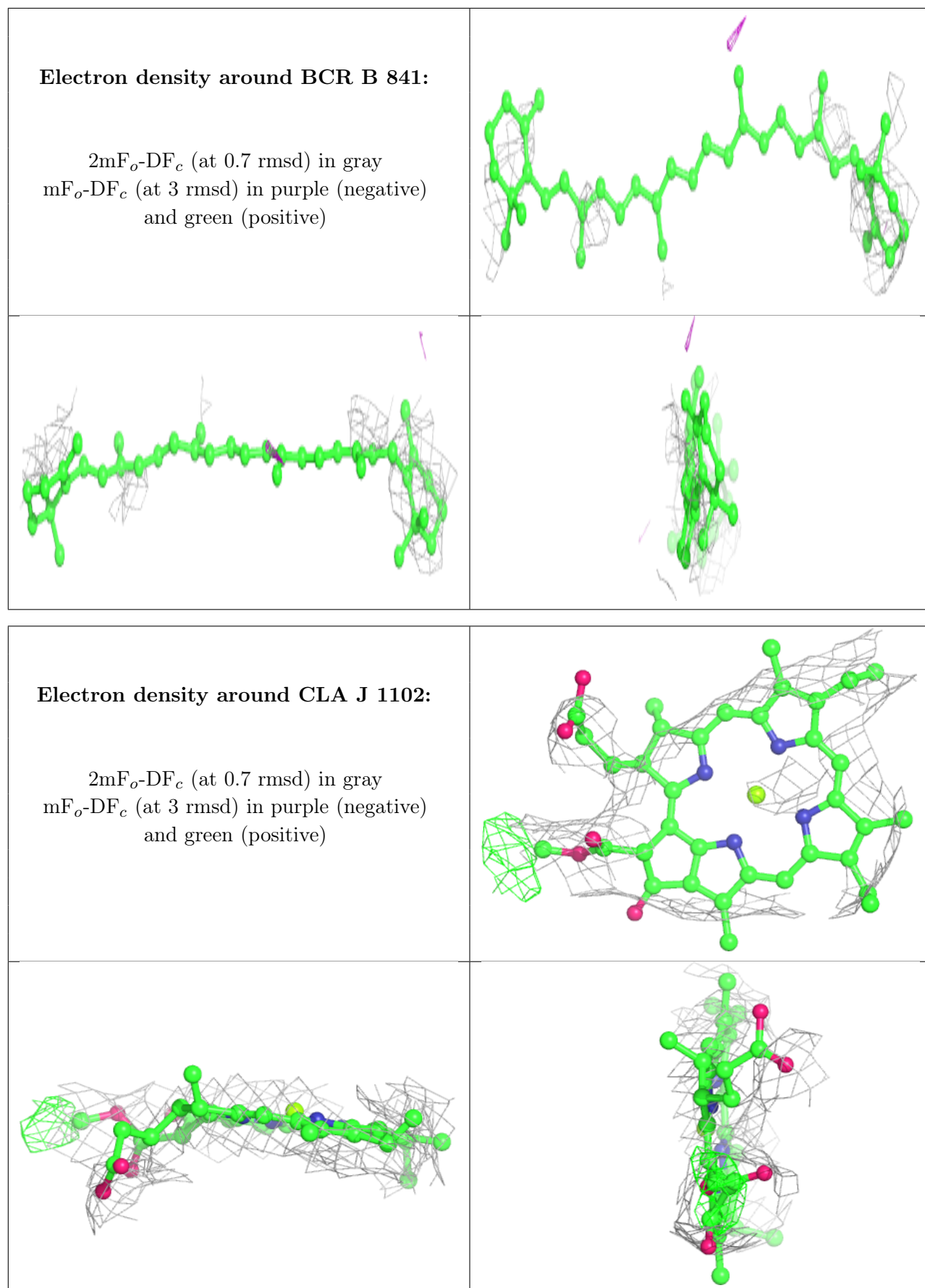
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 812:

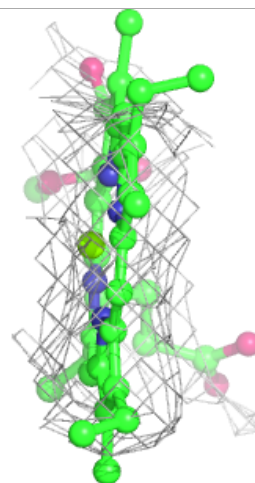
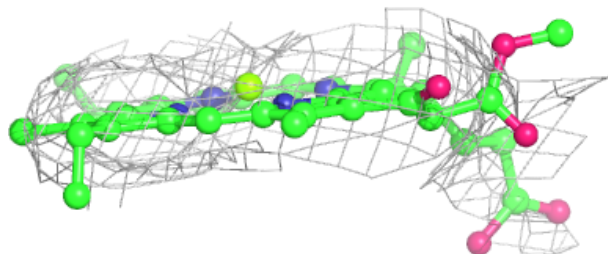
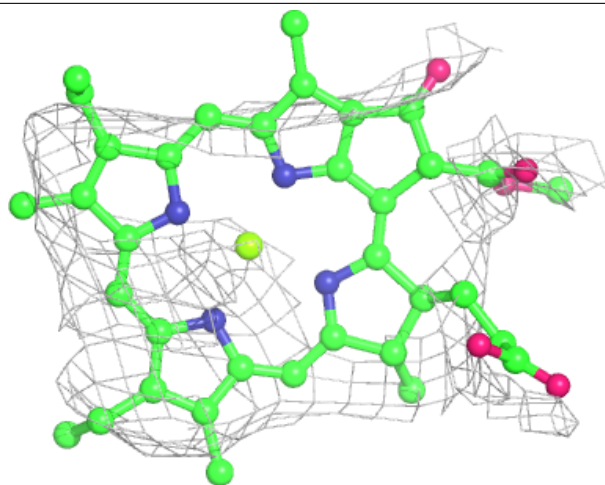
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





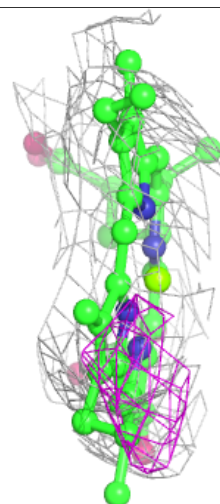
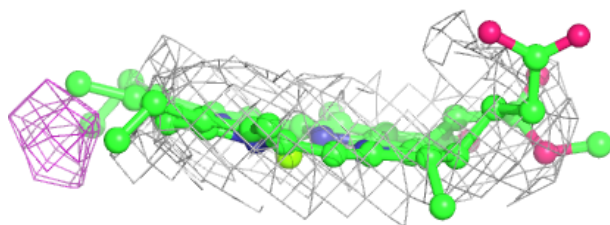
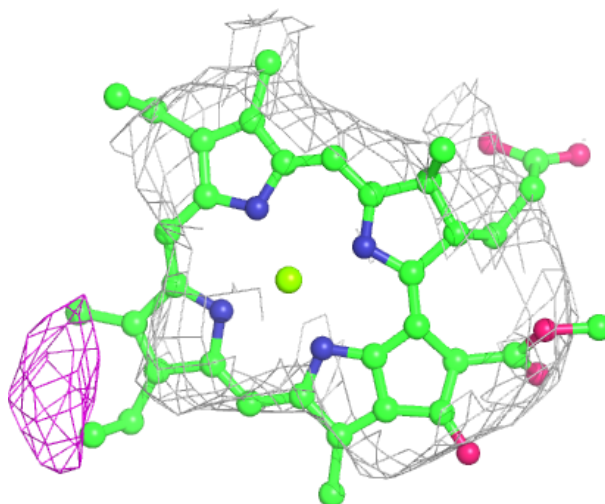
Electron density around CLA A 836:

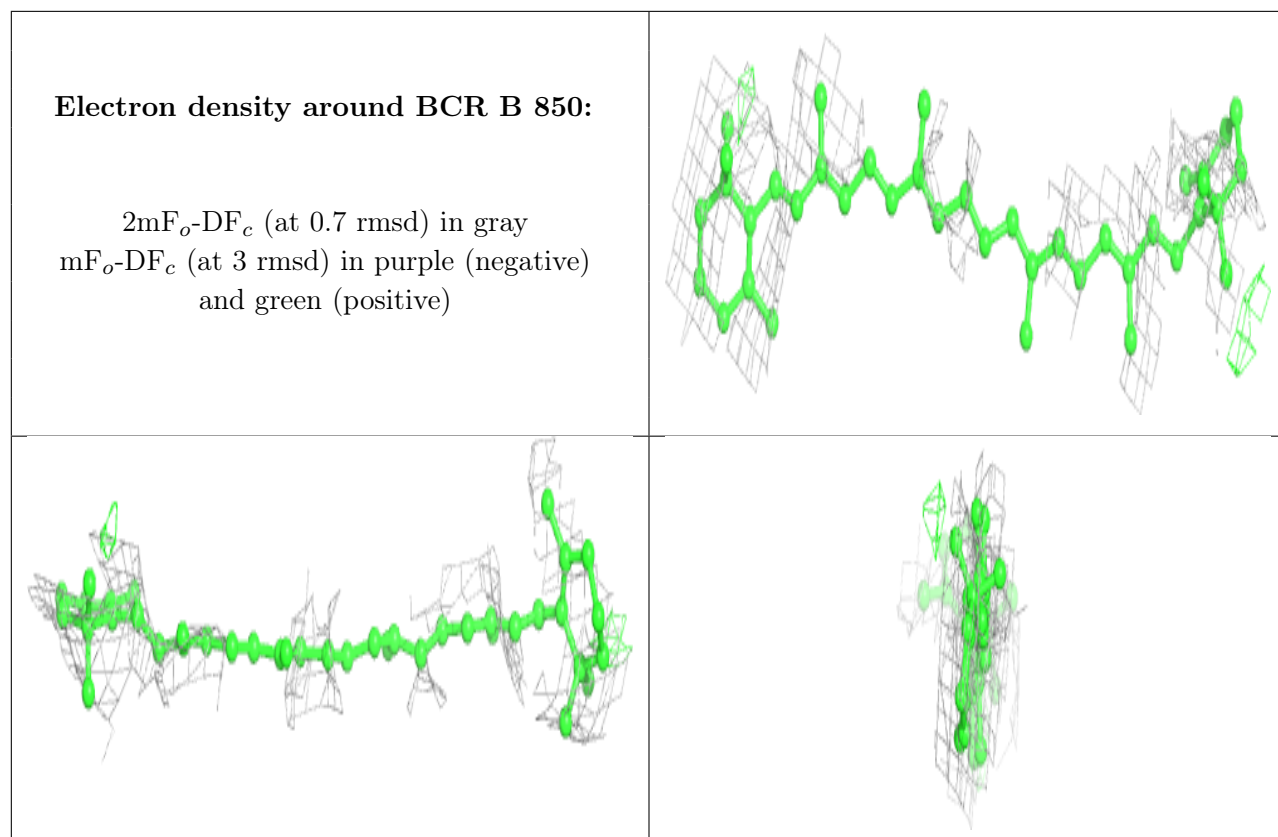
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 810:

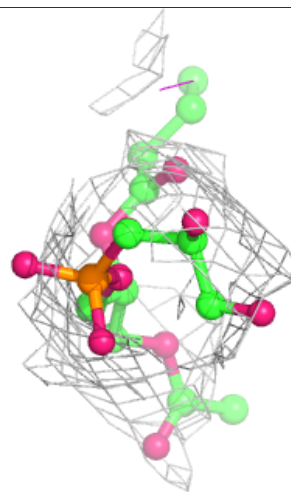
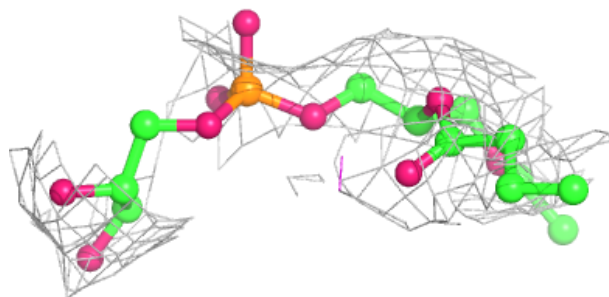
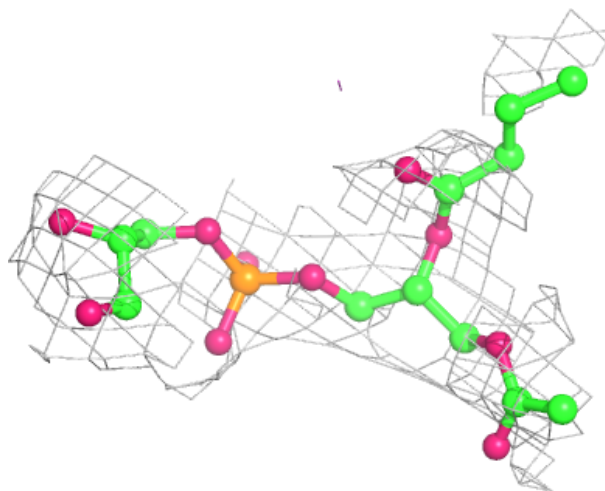
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

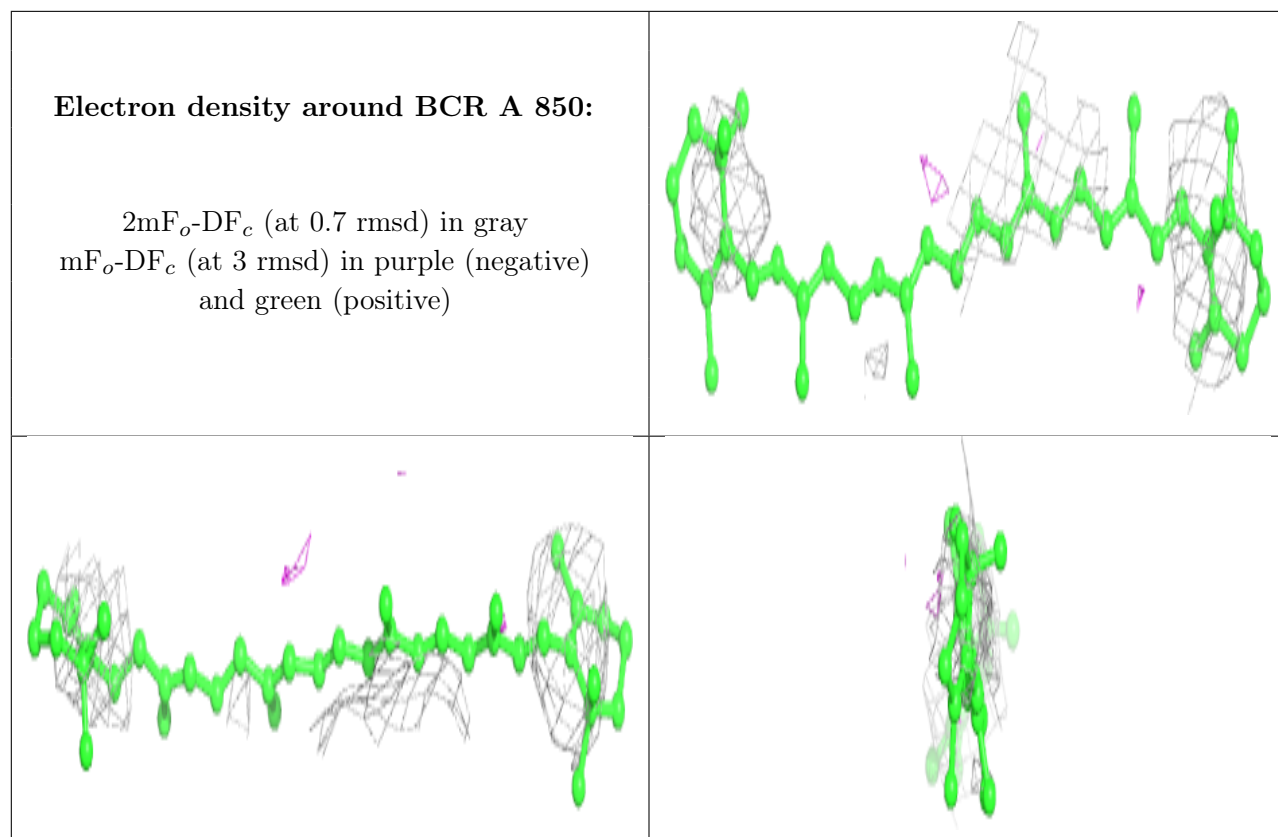




Electron density around LHG X 101:

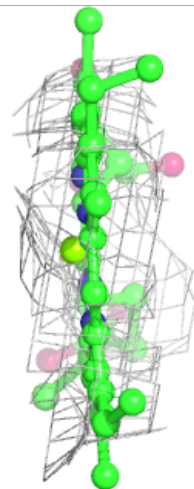
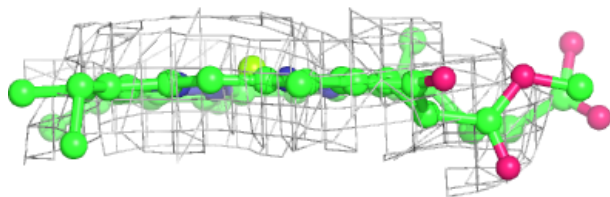
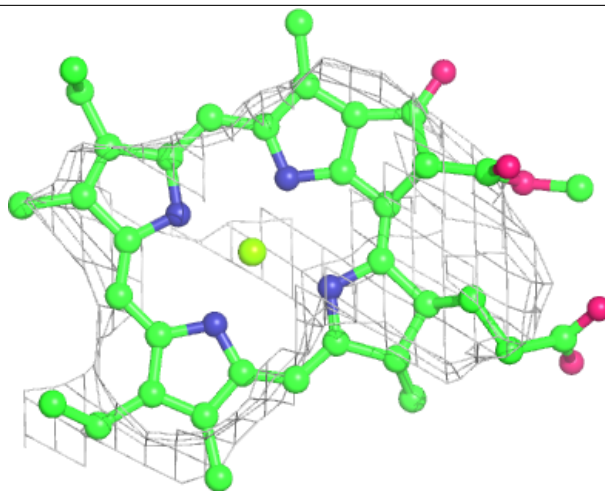
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





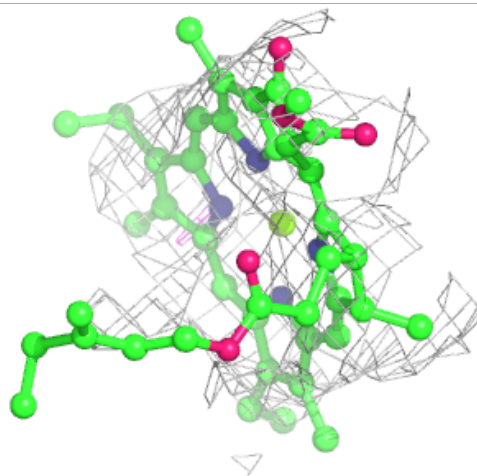
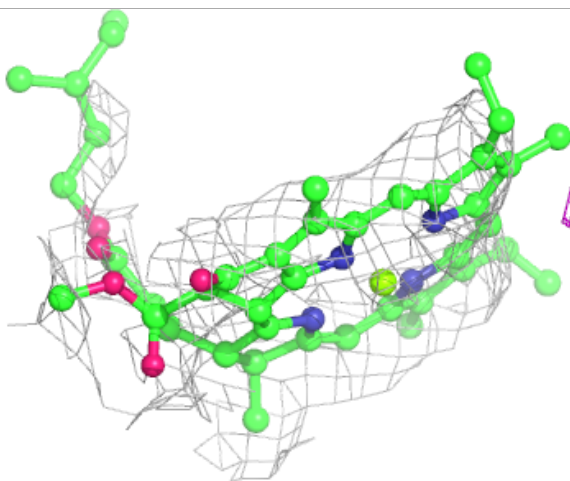
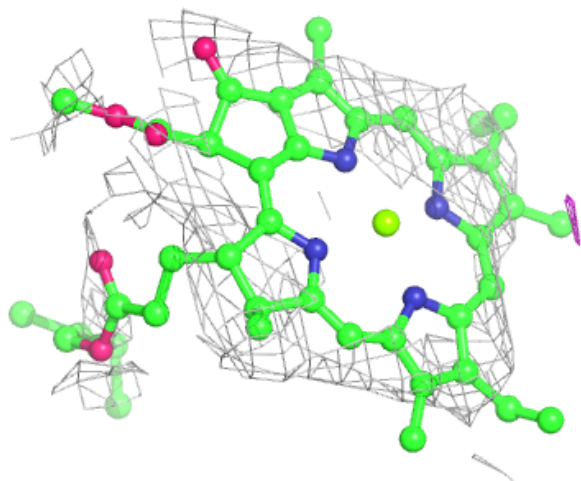
Electron density around CLA B 834:

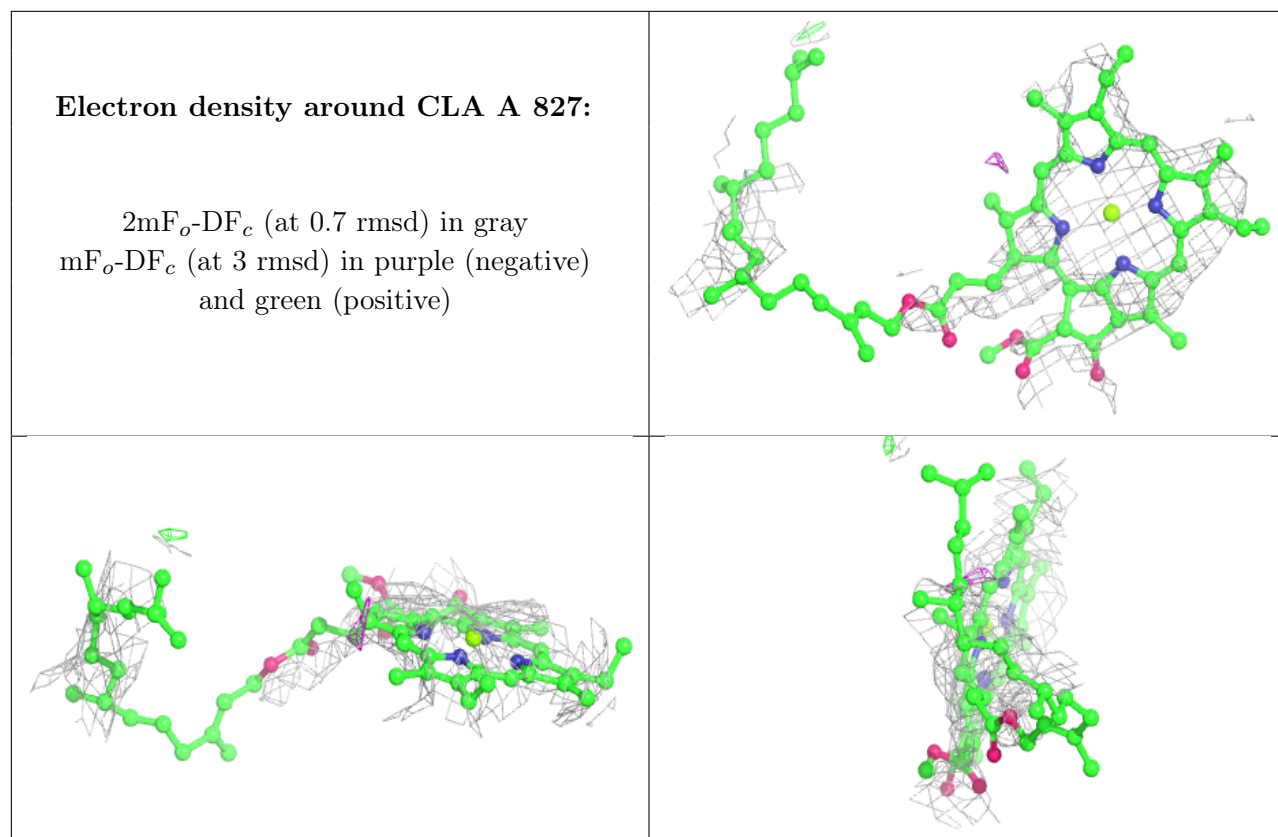
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

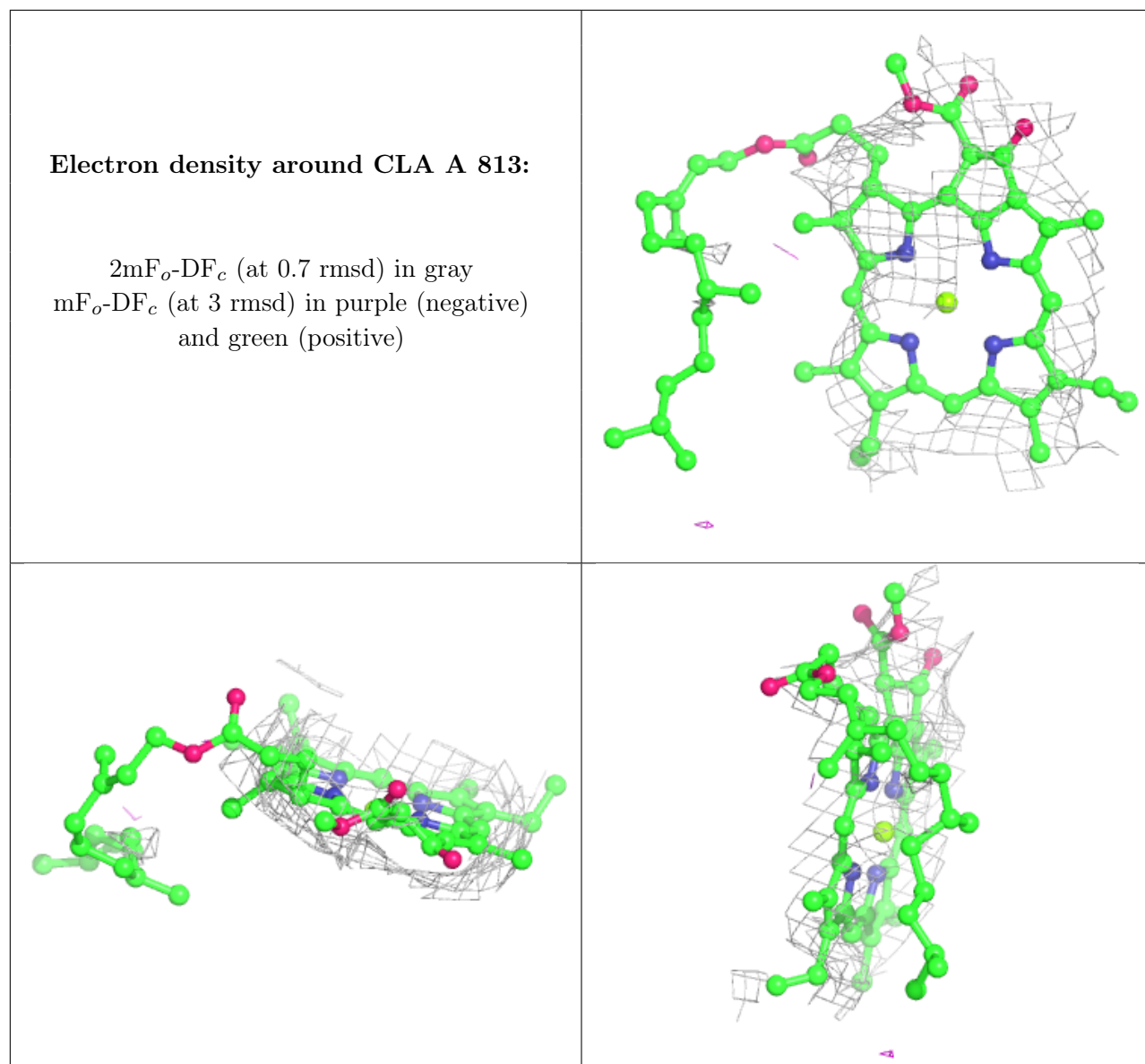


Electron density around CLA A 807:

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and green (positive)

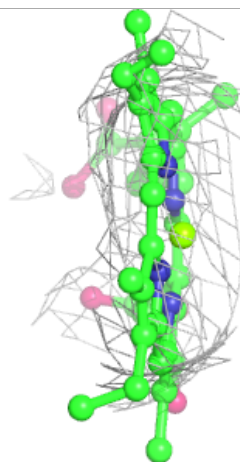
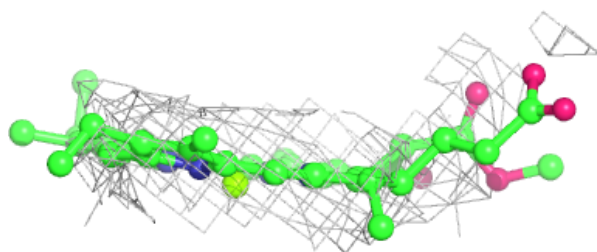
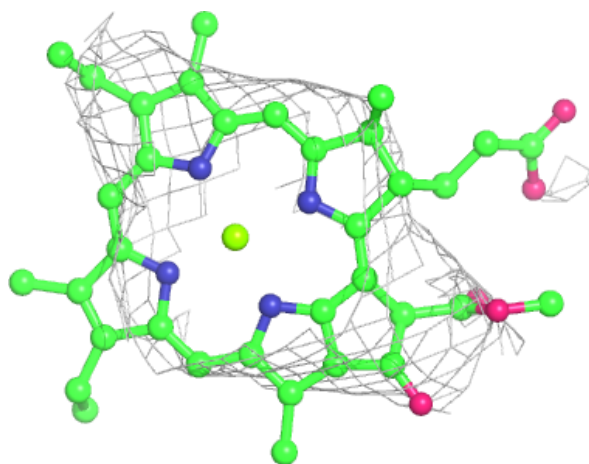






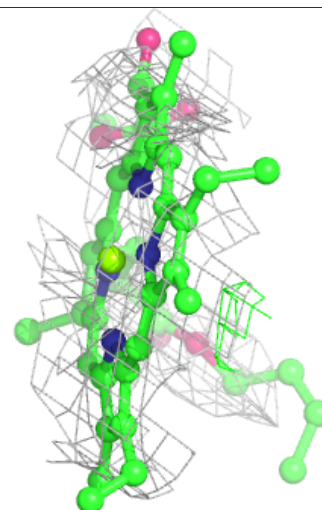
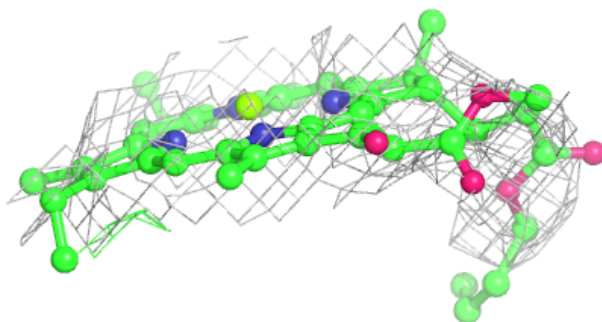
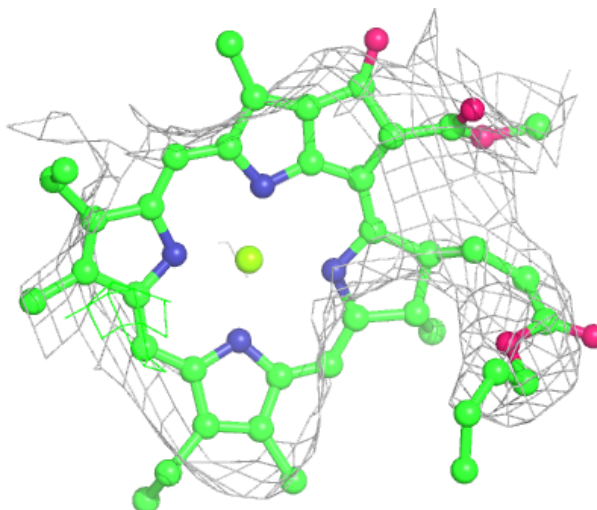
Electron density around CLA B 819:

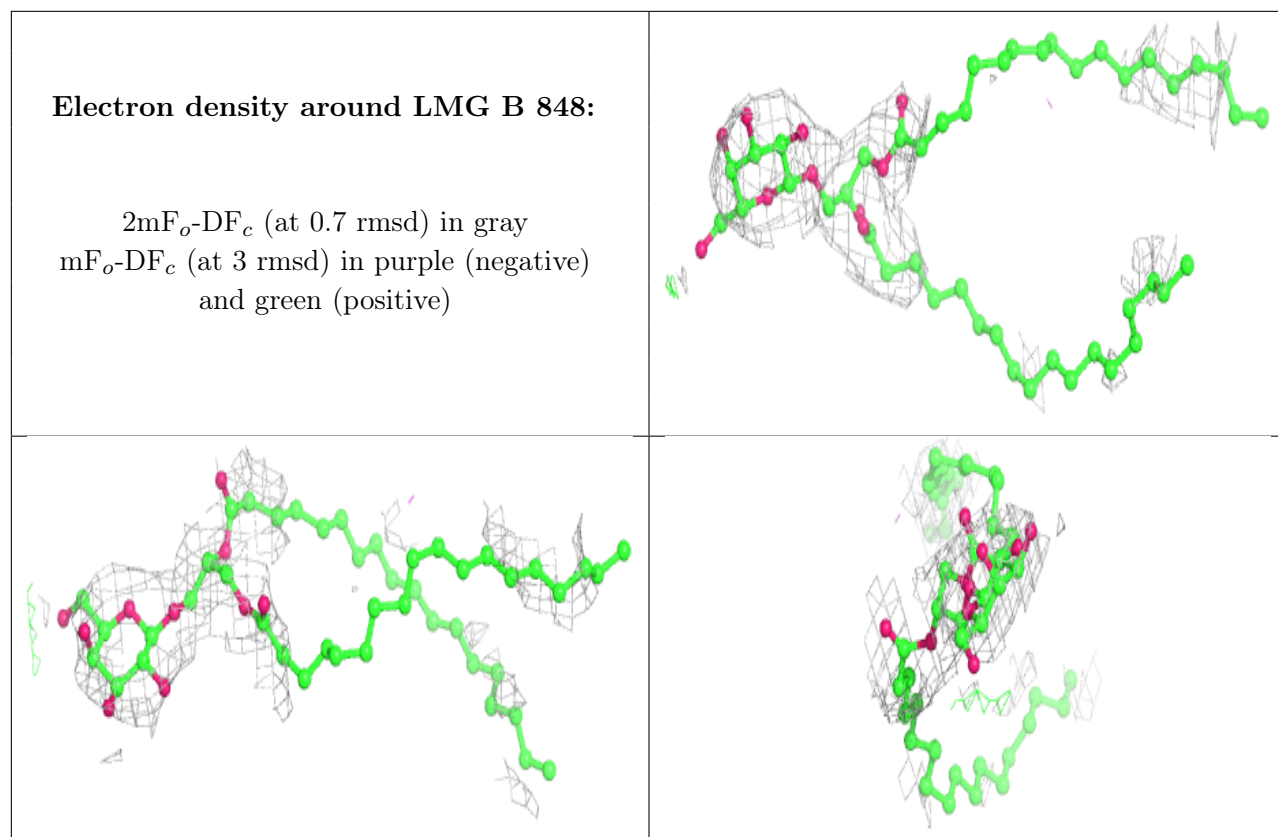
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

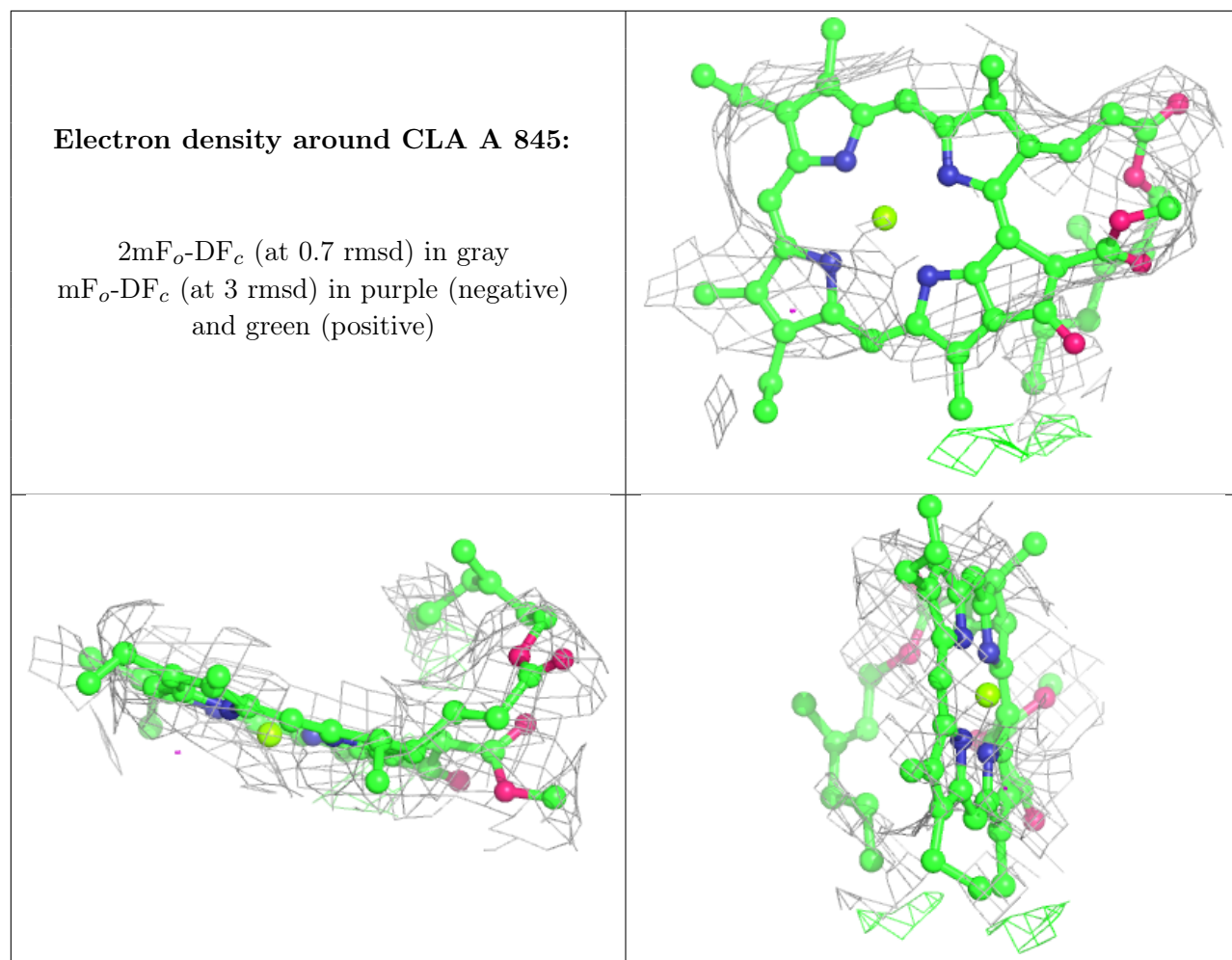


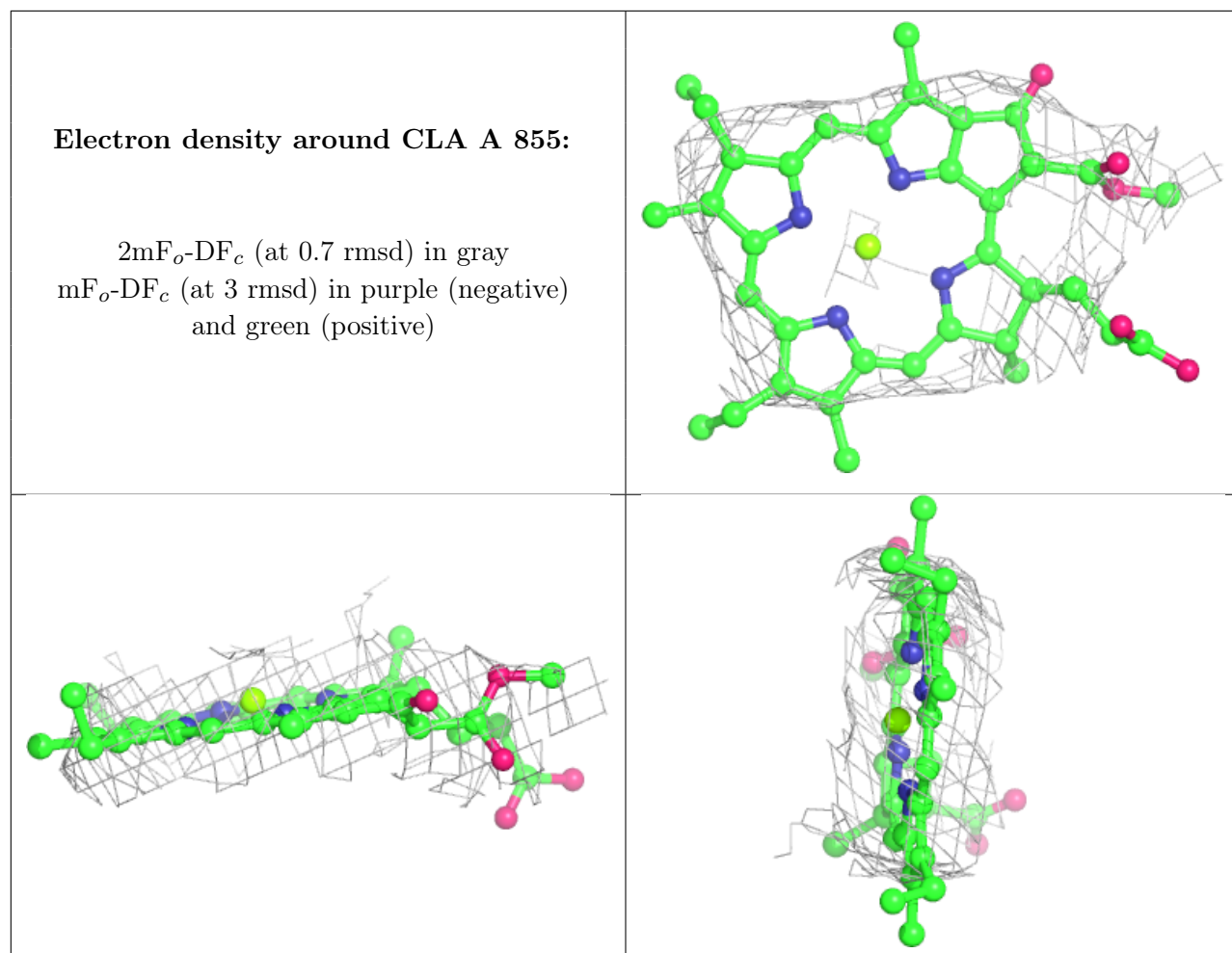
Electron density around CLA A 822:

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



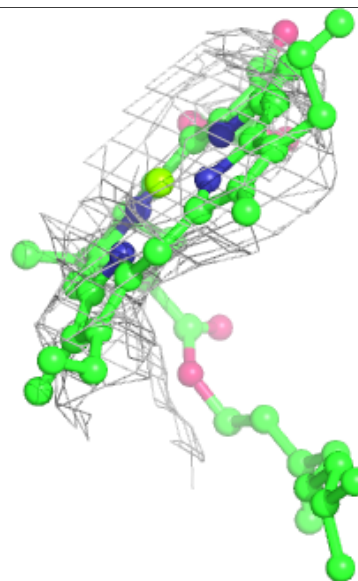
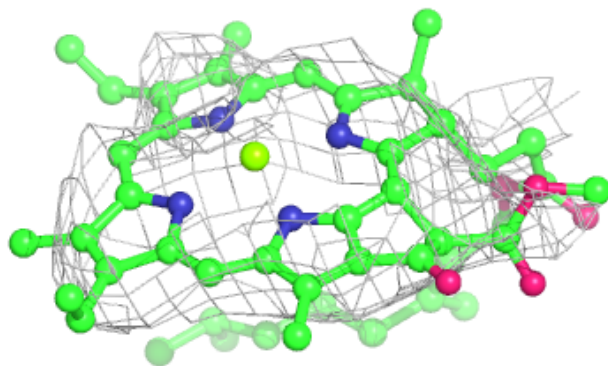
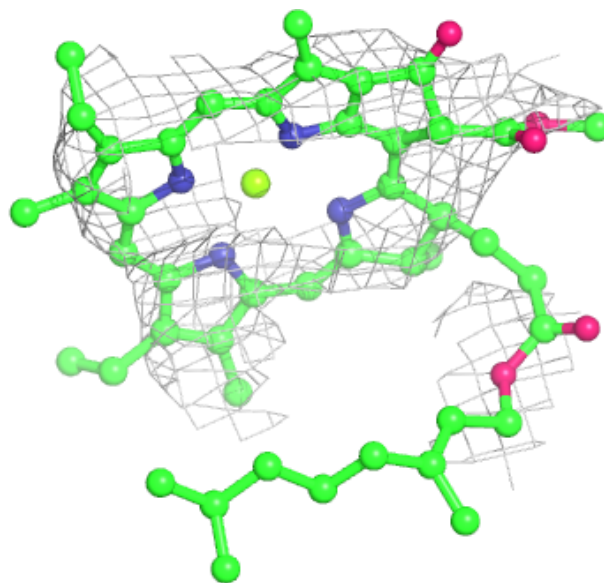


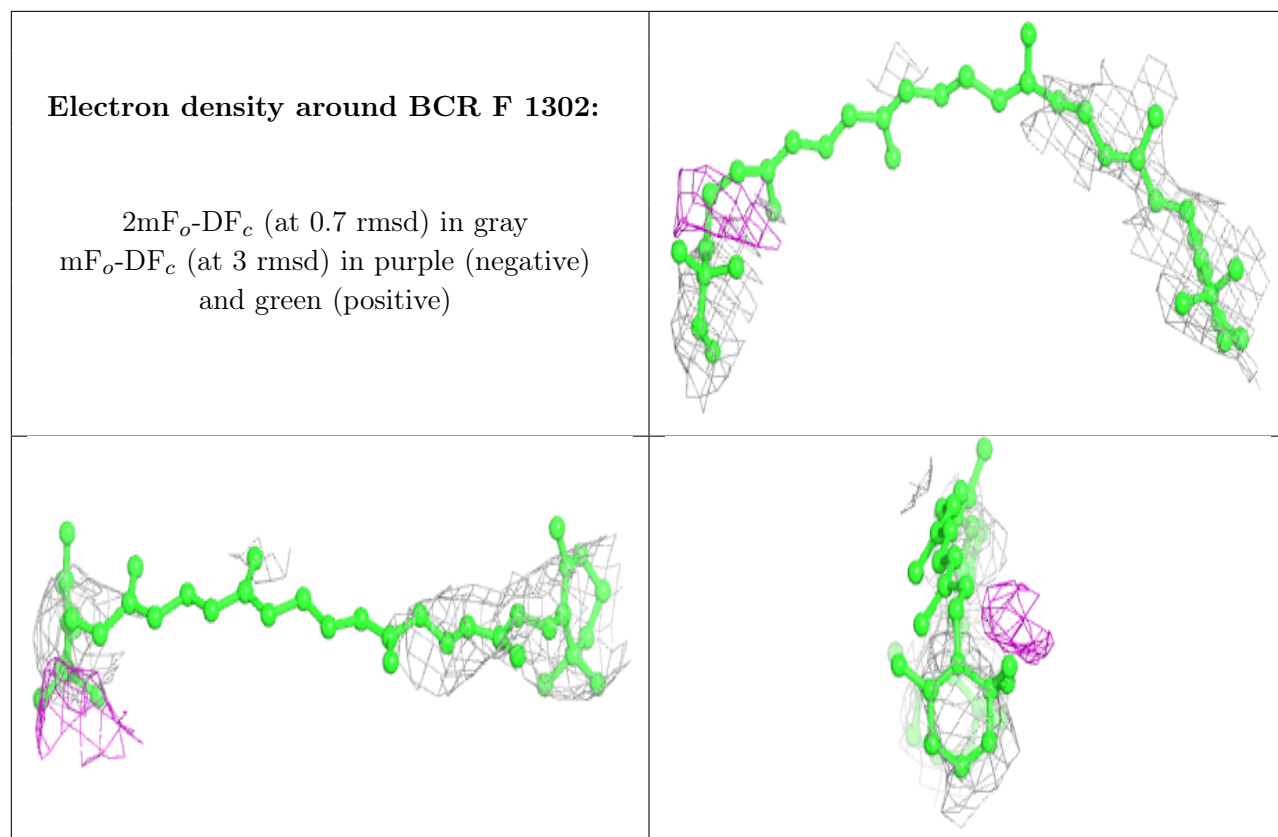




Electron density around CLA B 814:

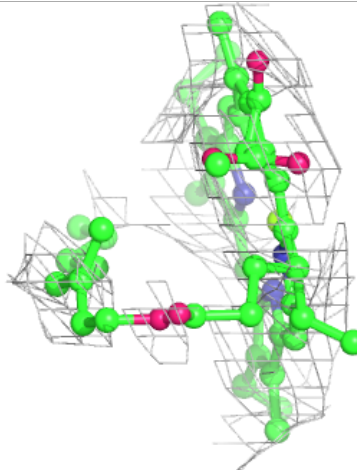
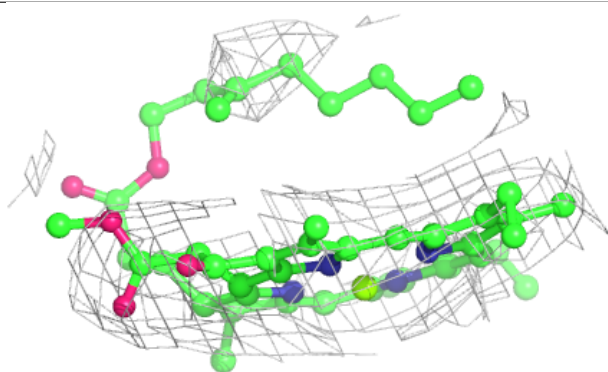
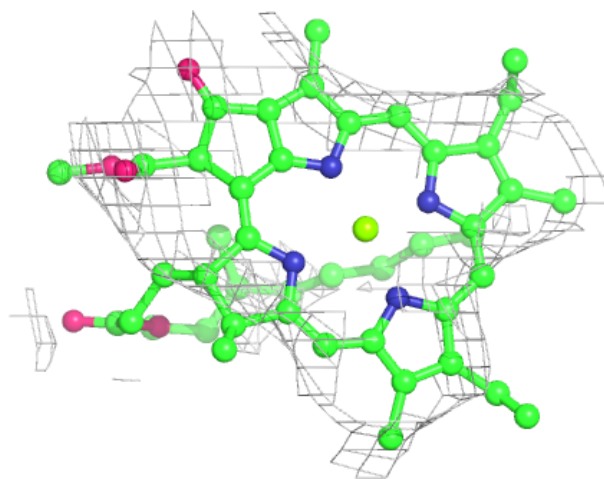
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





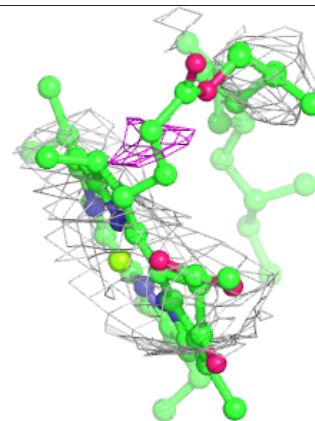
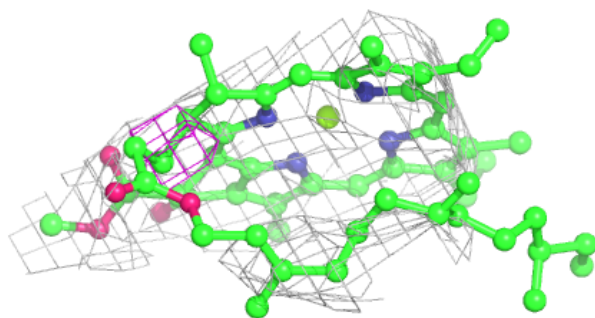
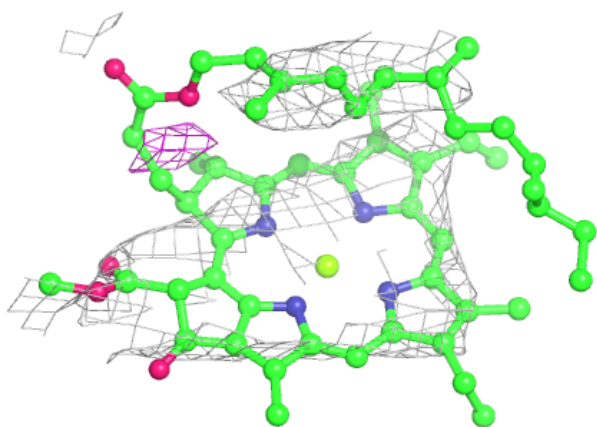
Electron density around CLA A 817:

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

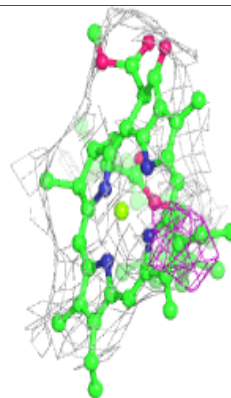
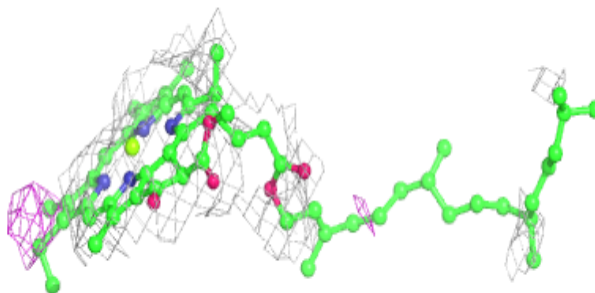
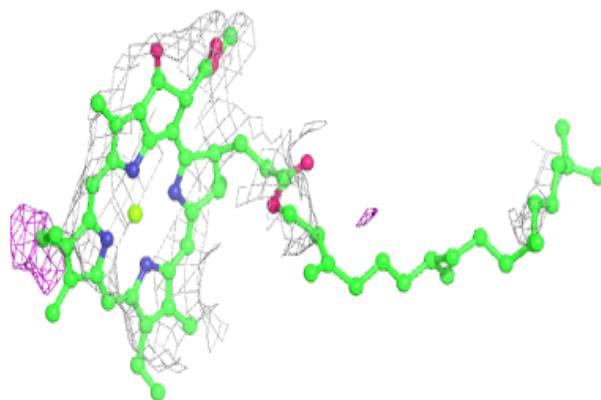


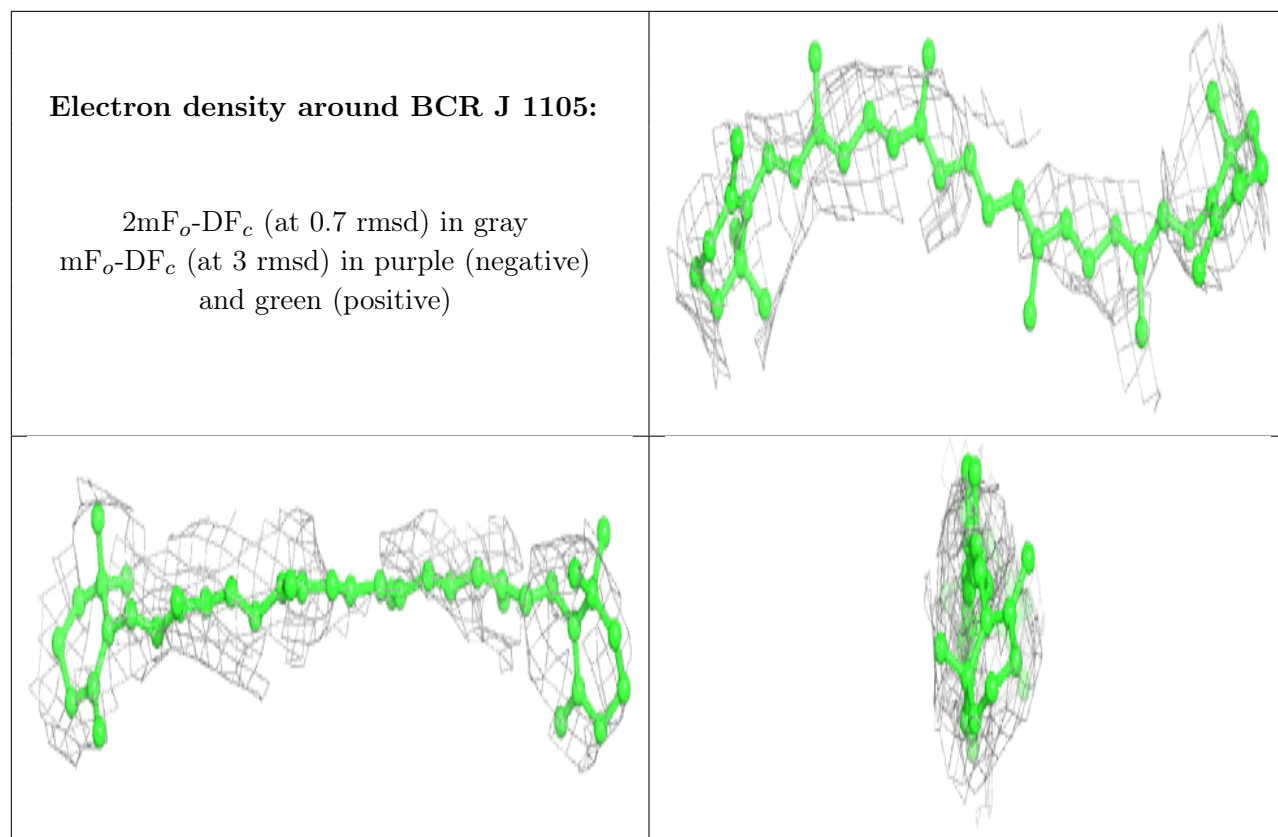
Electron density around CLA A 820:

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and green (positive)

**Electron density around CLA A 821:**

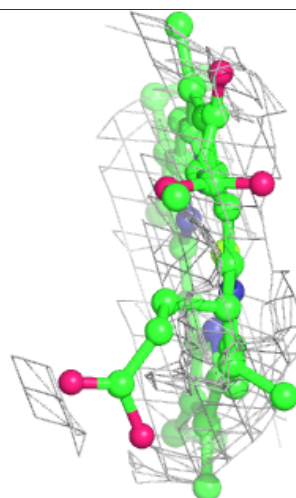
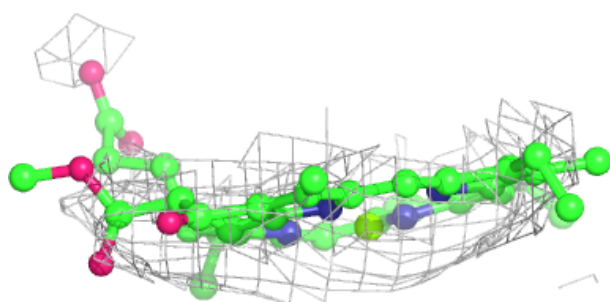
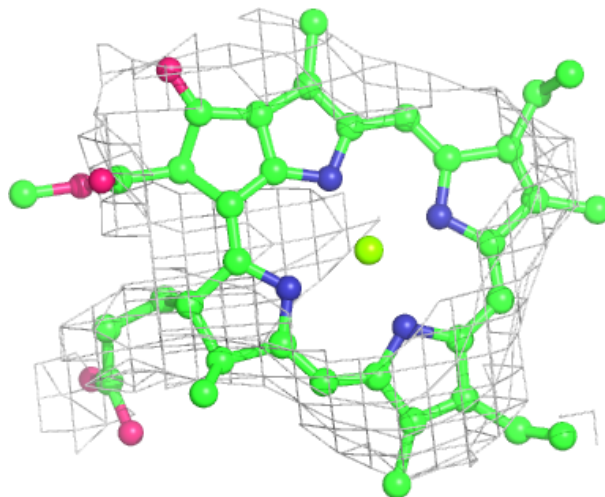
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and green (positive)

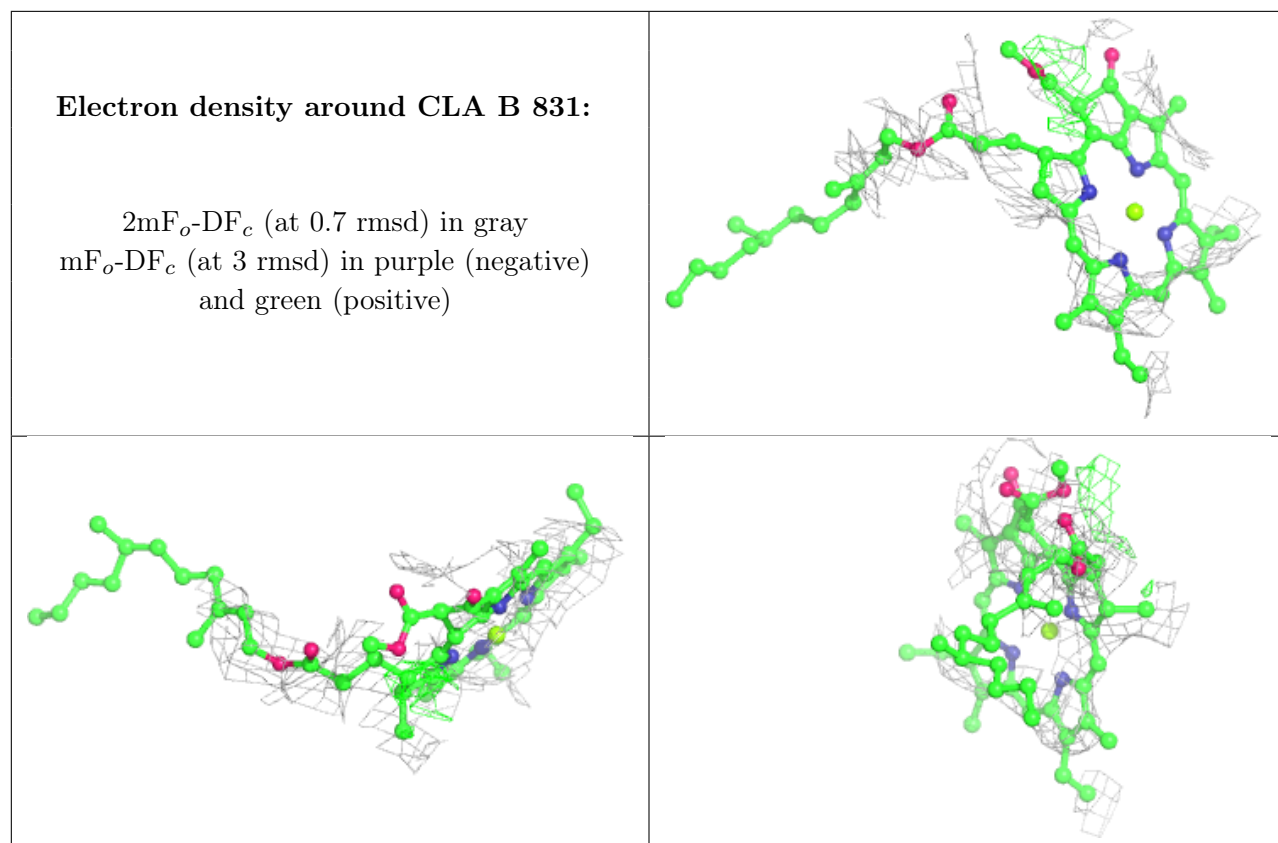




Electron density around CLA B 810:

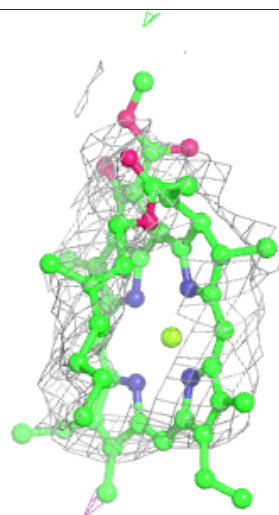
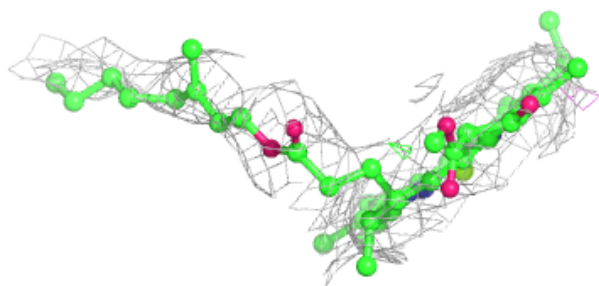
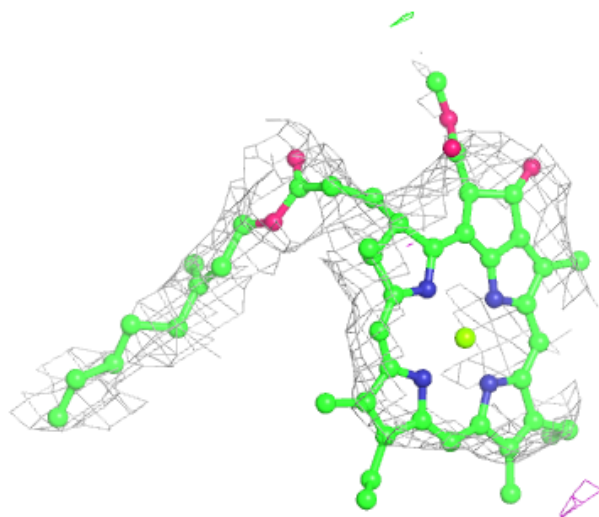
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





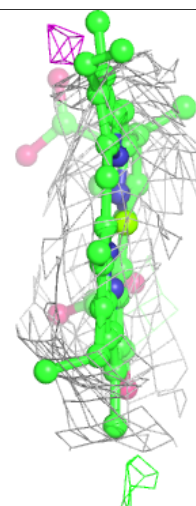
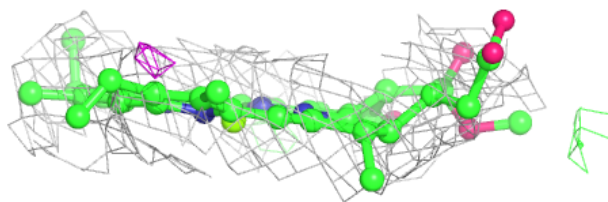
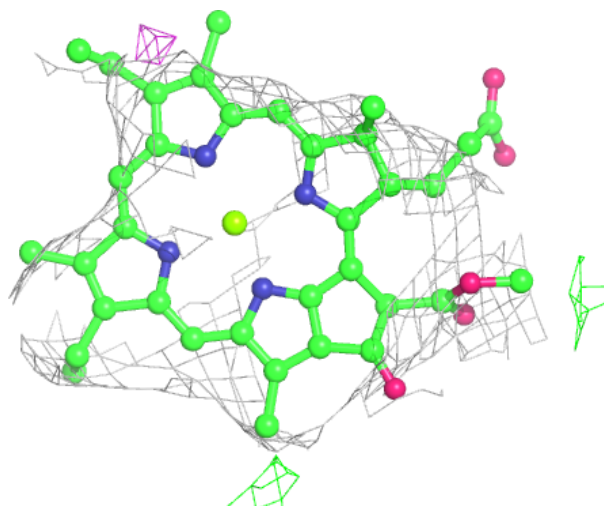
Electron density around CLA A 835:

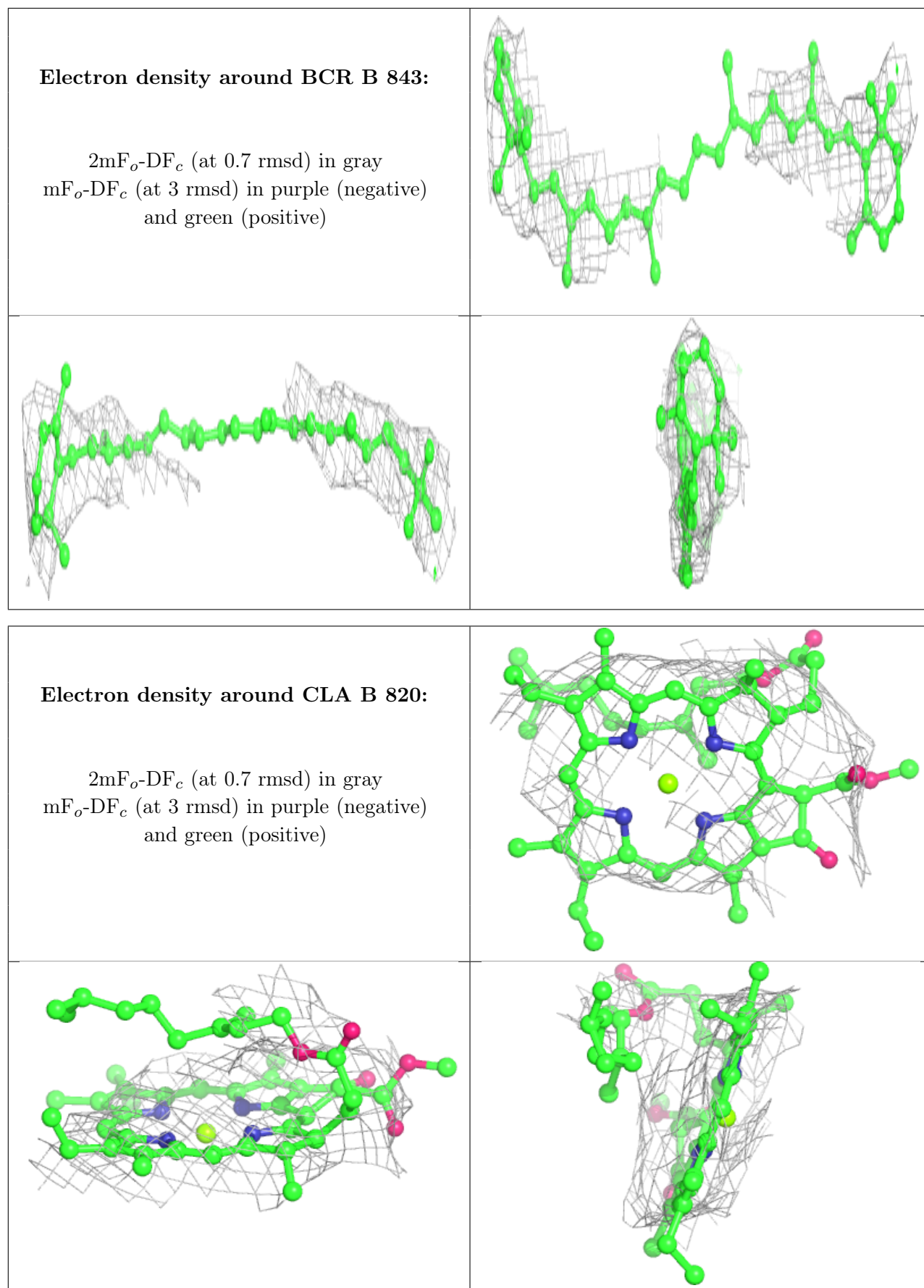
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 813:

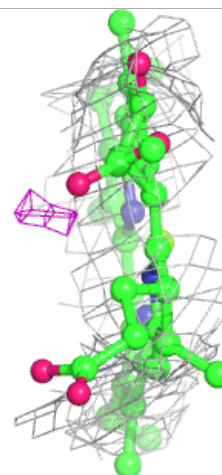
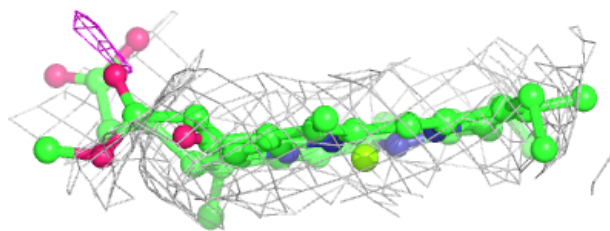
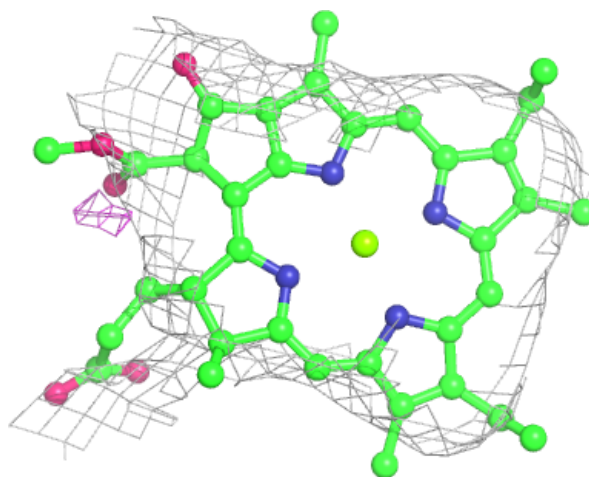
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
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and green (positive)





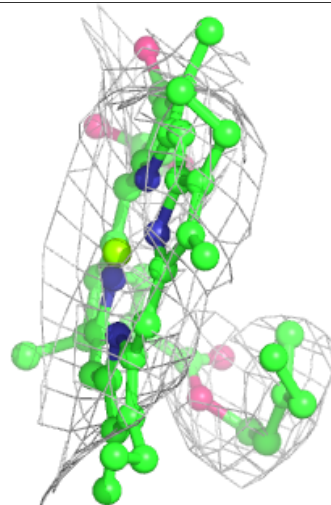
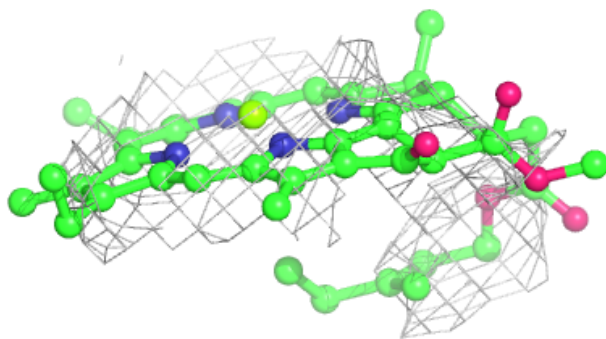
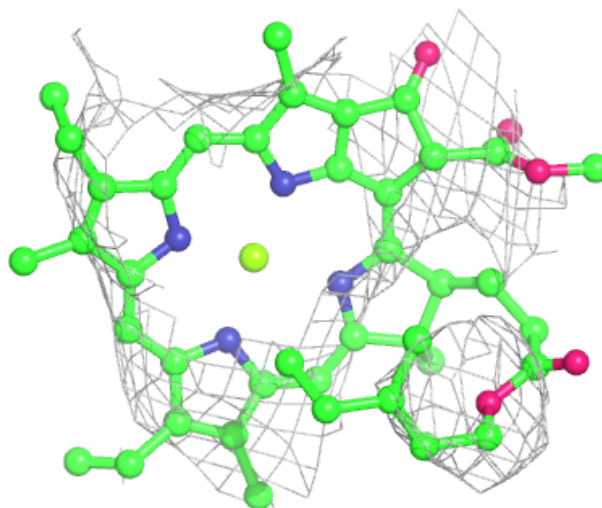
Electron density around CLA B 828:

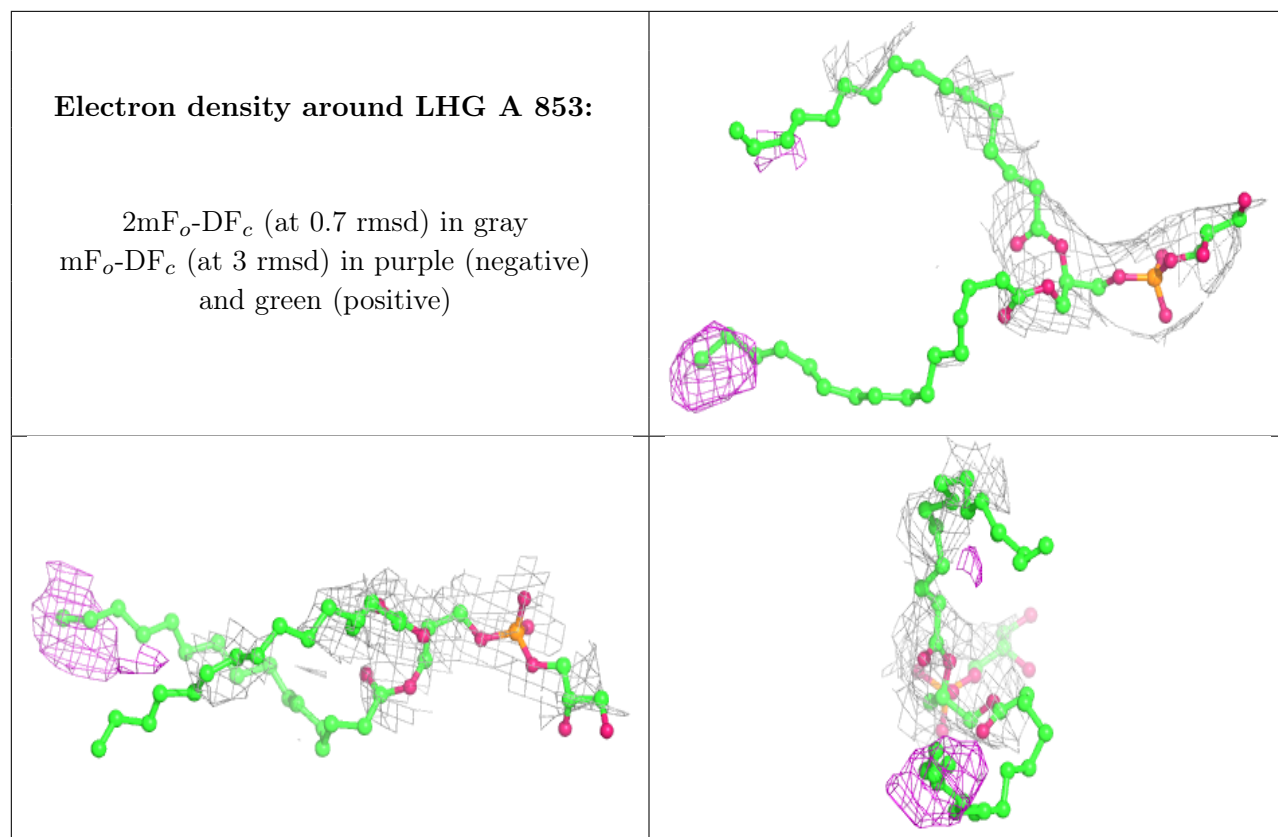
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA A 823:

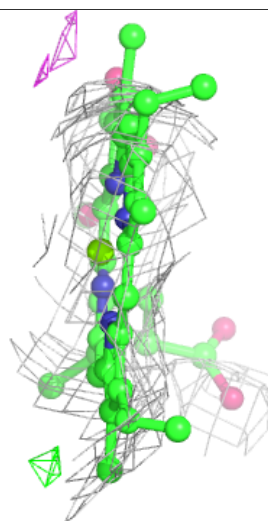
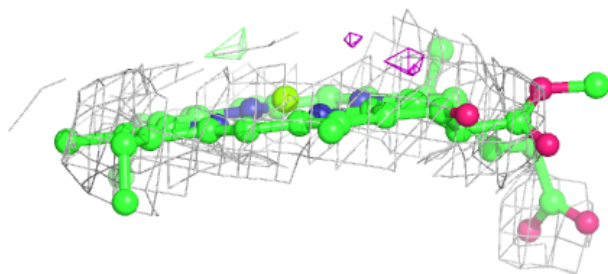
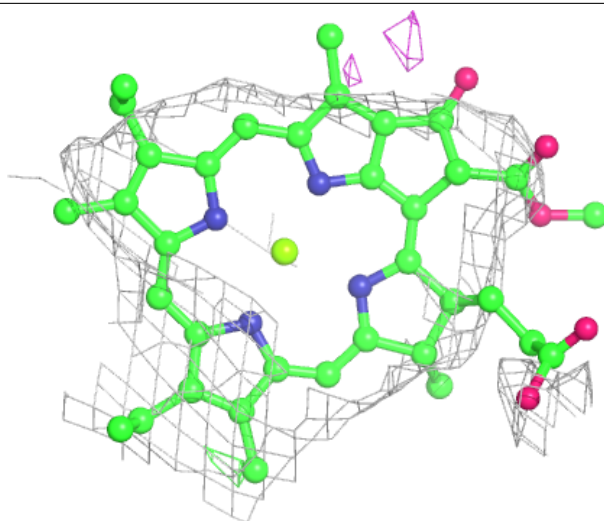
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





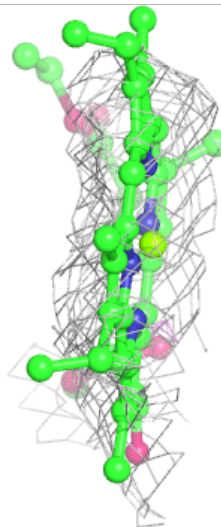
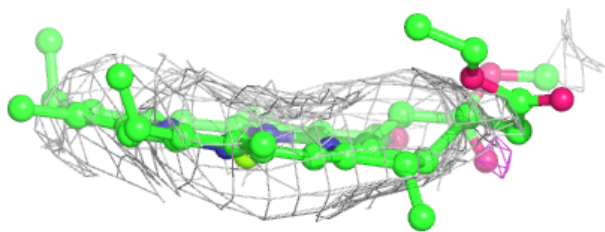
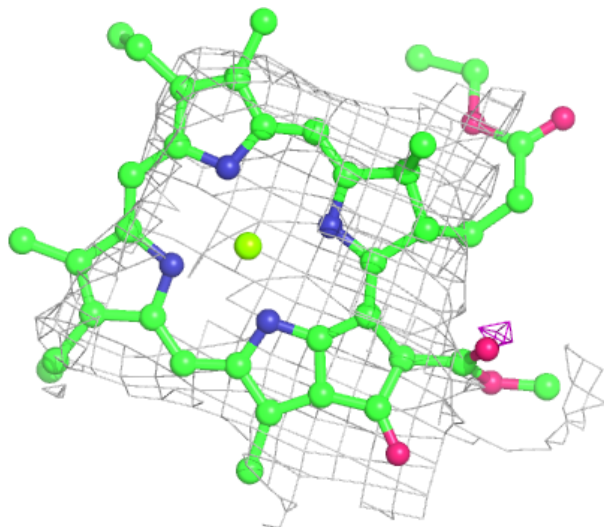
Electron density around CLA B 833:

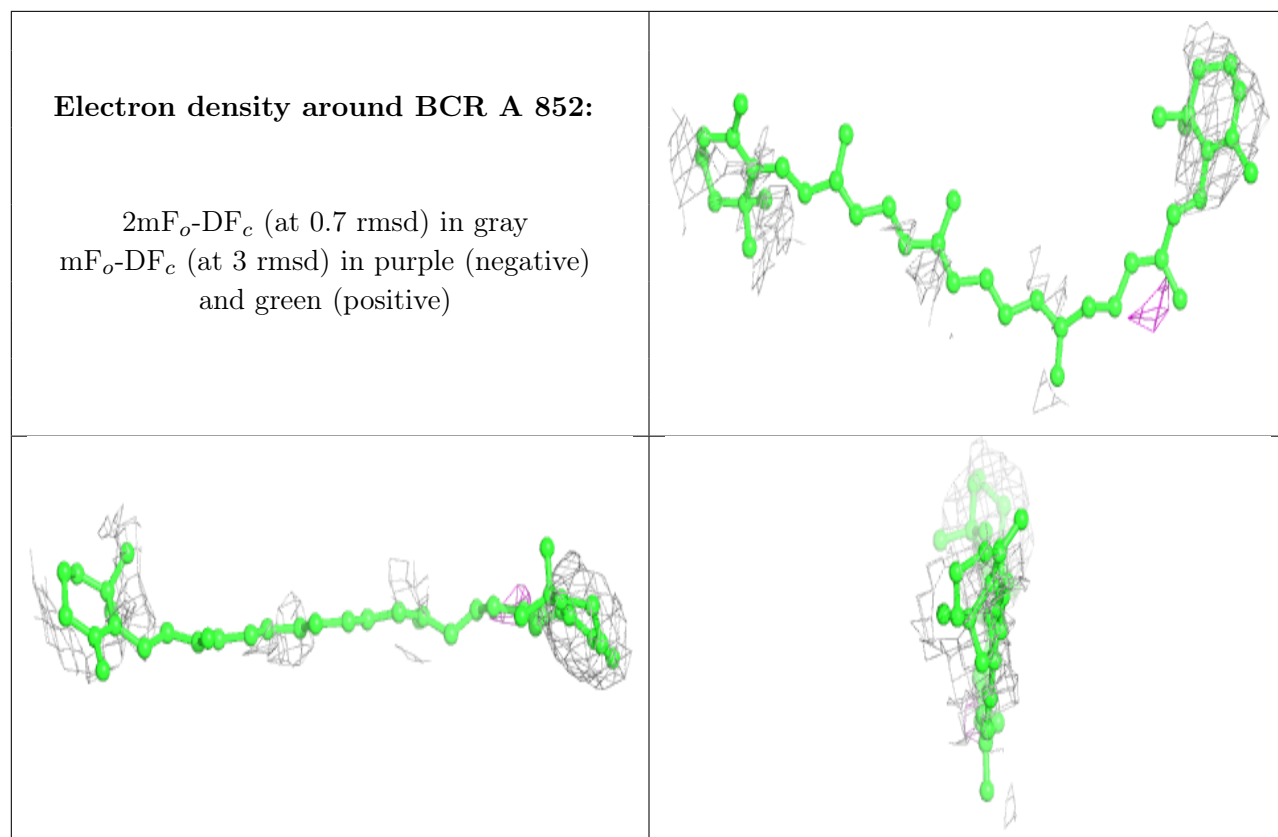
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 818:

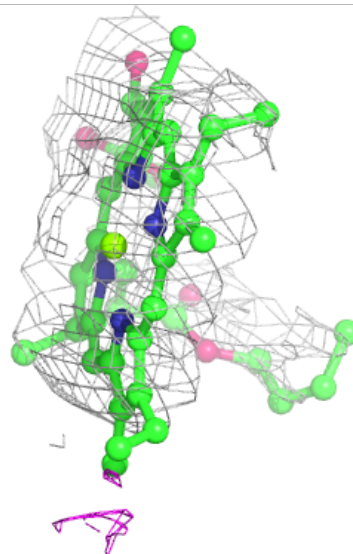
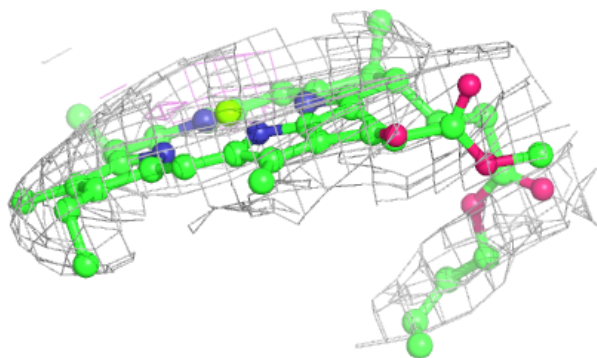
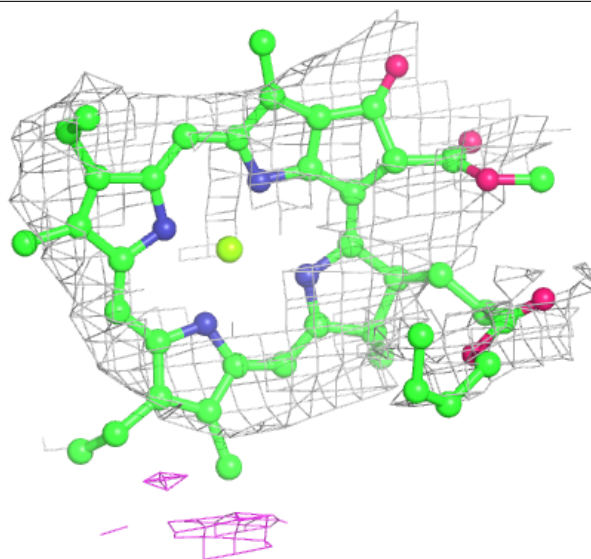
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

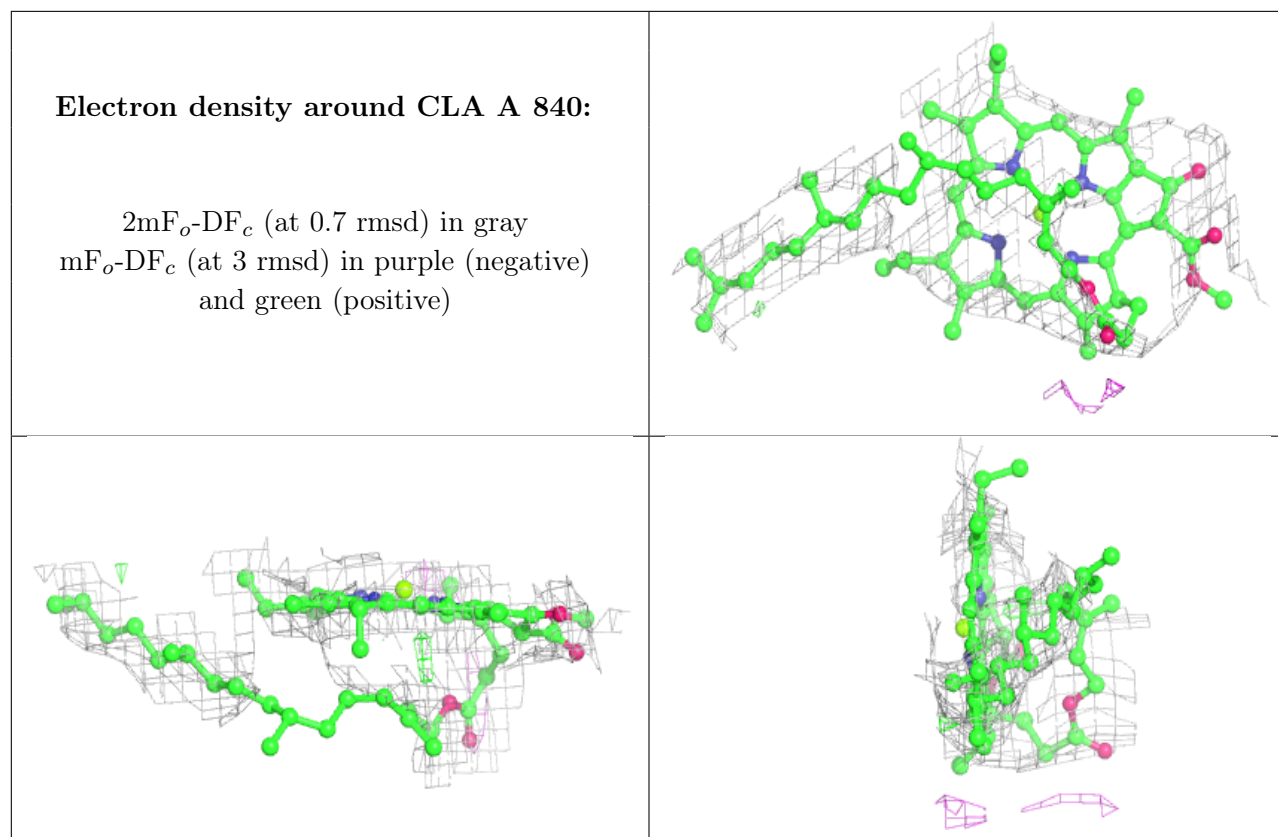




Electron density around CLA B 829:

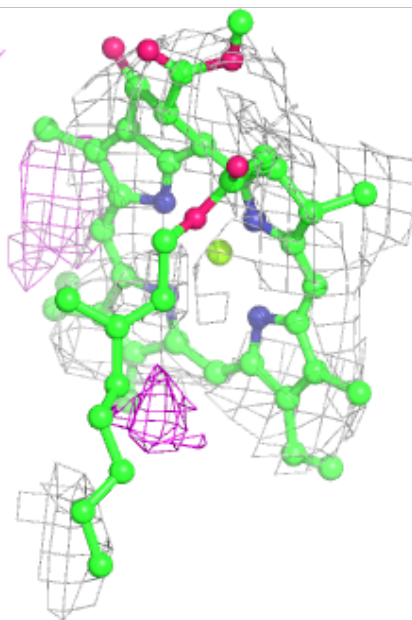
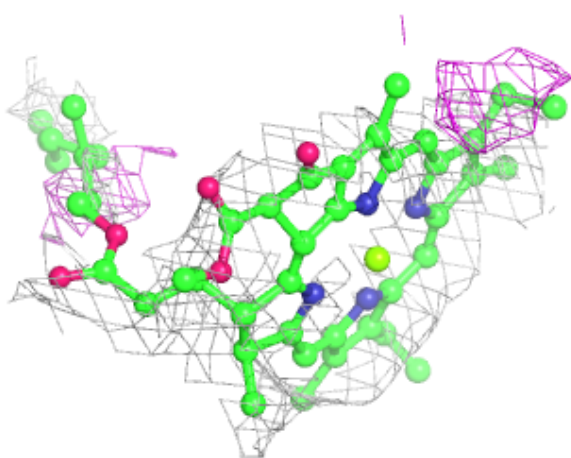
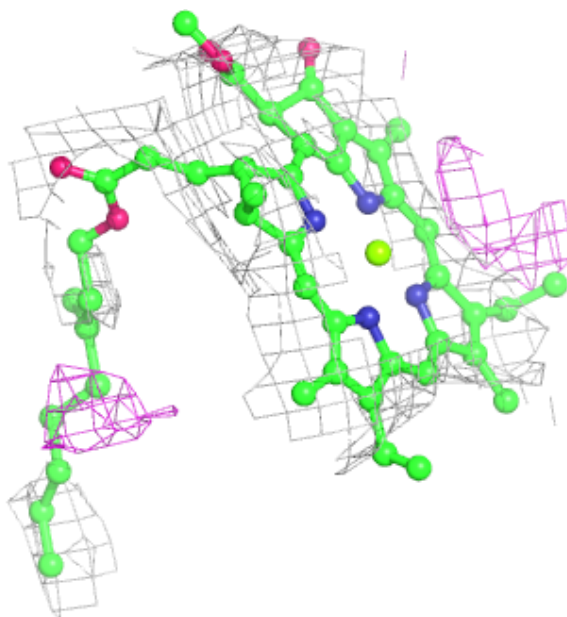
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

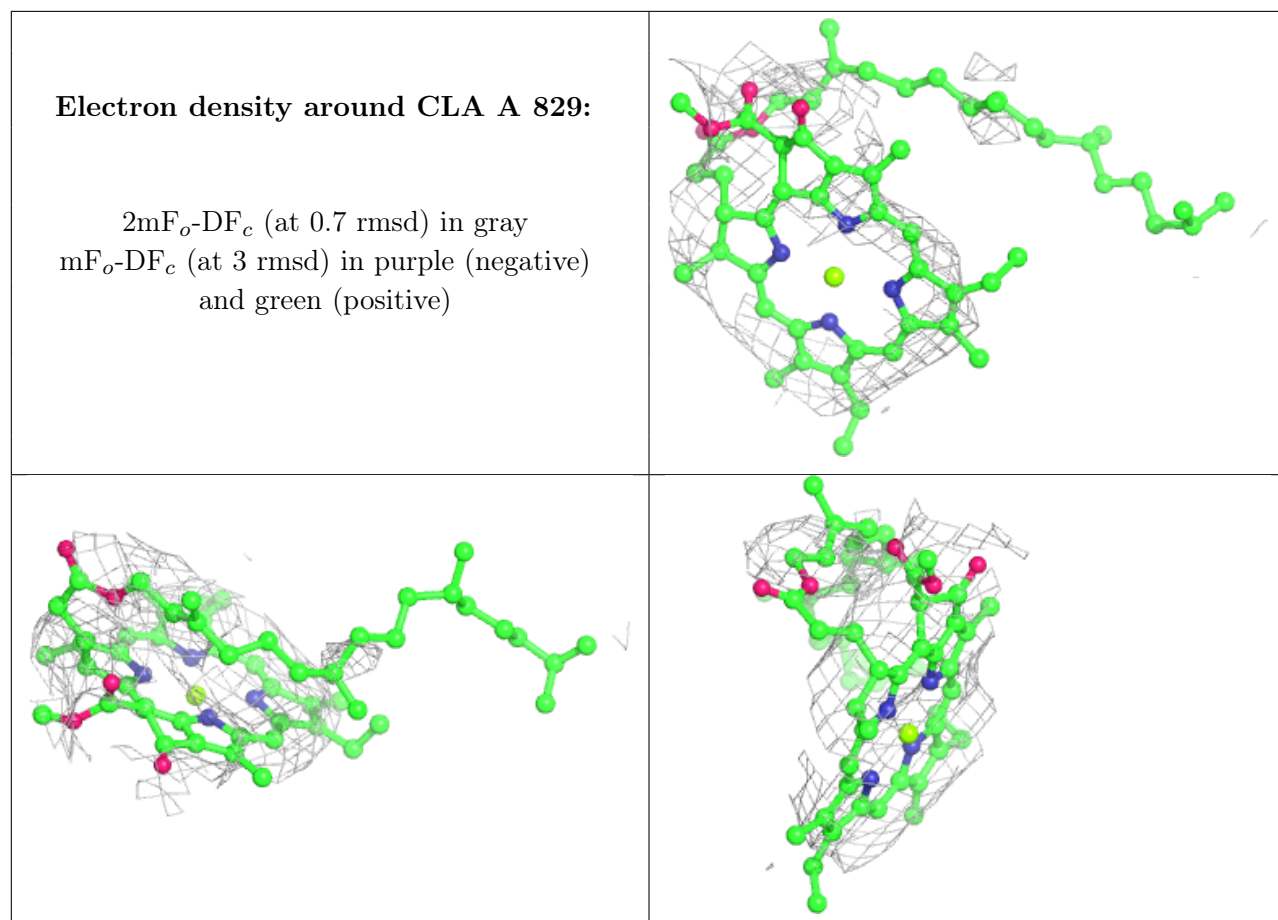




Electron density around CLA M 1201:

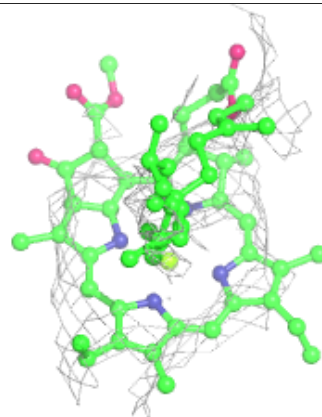
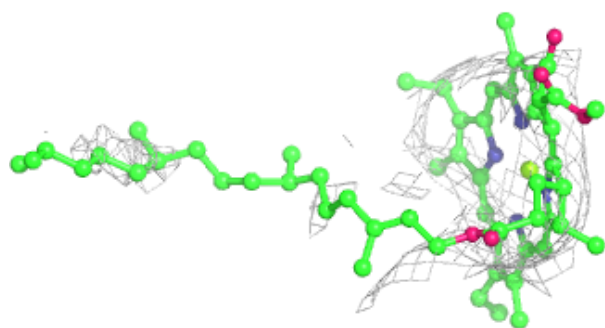
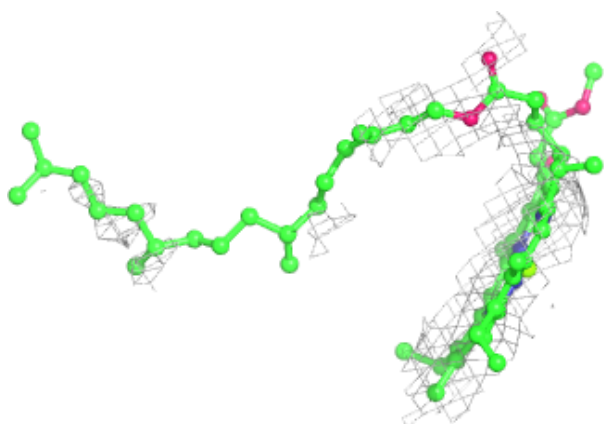
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



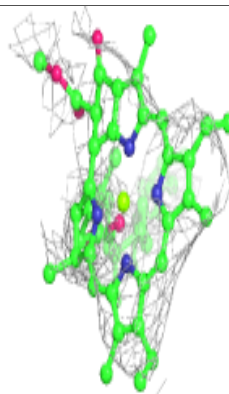
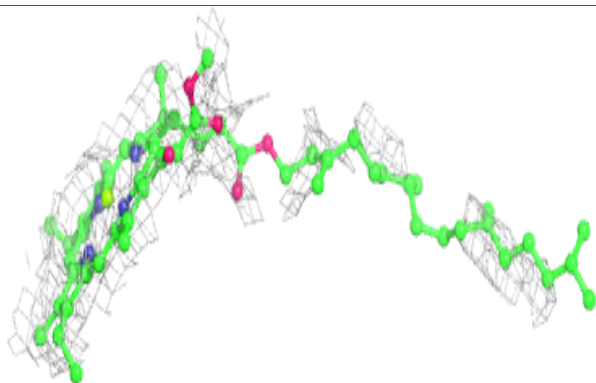
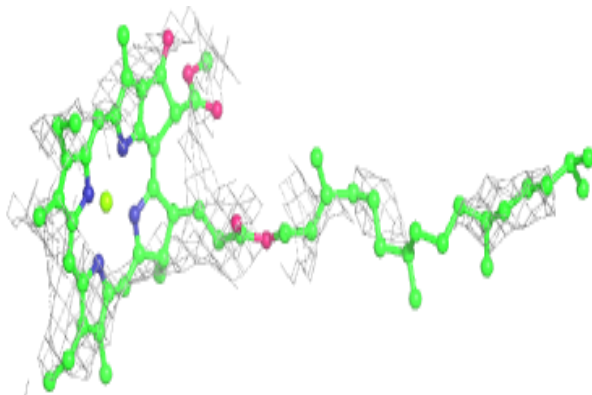


Electron density around CLA A 811:

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

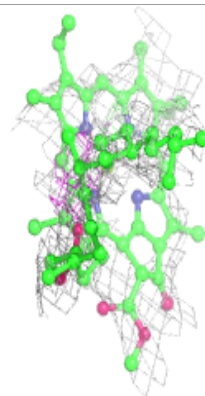
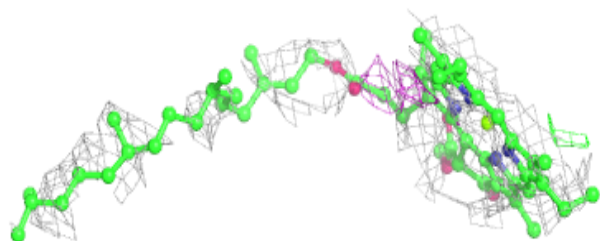
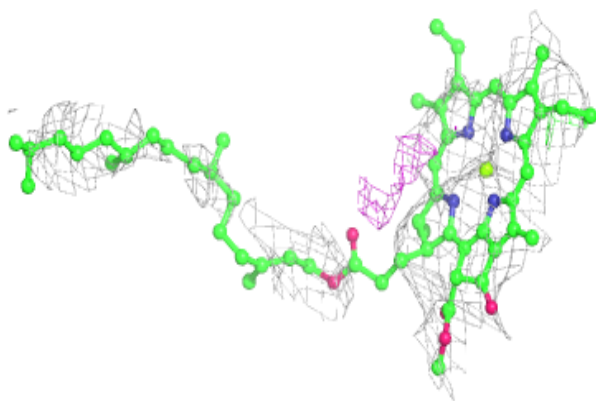
**Electron density around CLA A 809:**

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

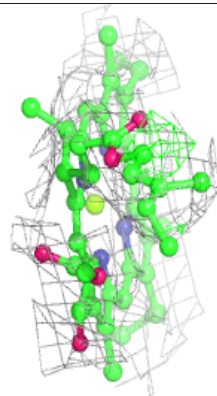
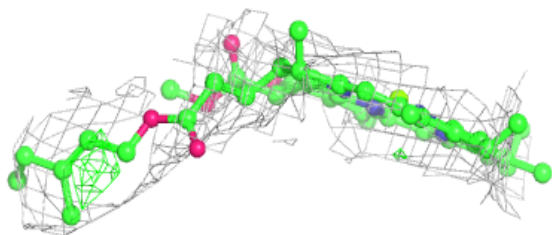
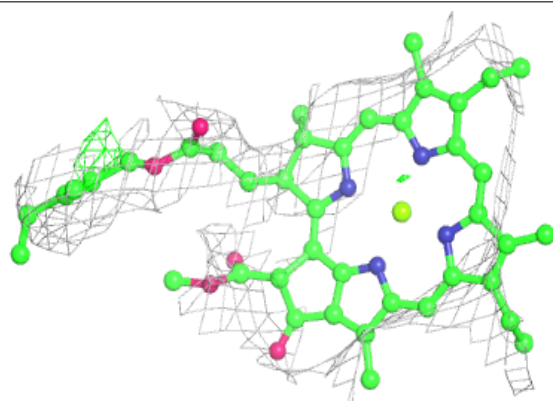


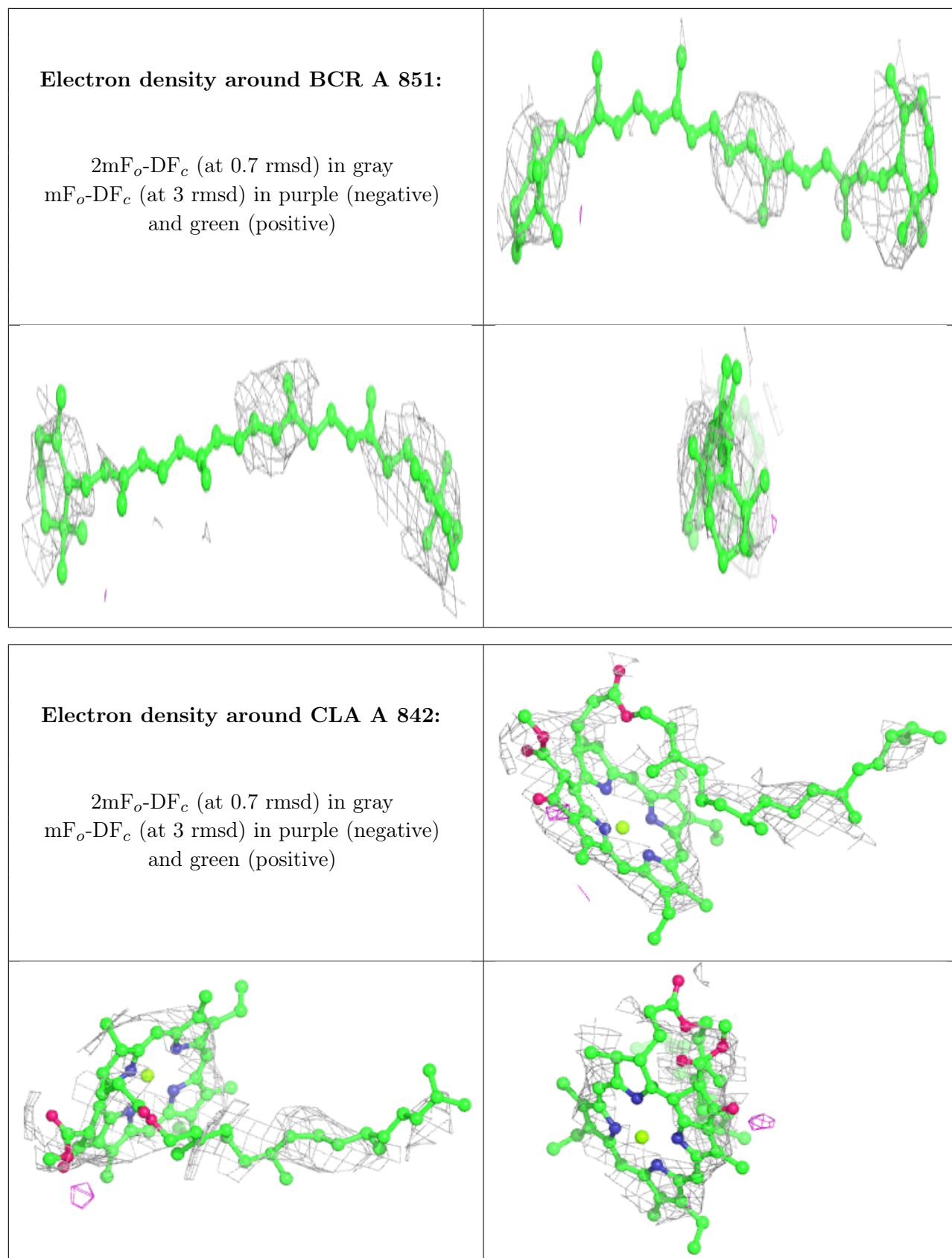
Electron density around CLA A 802:

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

**Electron density around CLA A 841:**

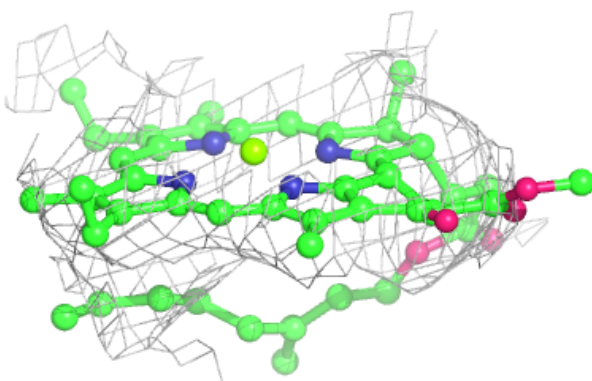
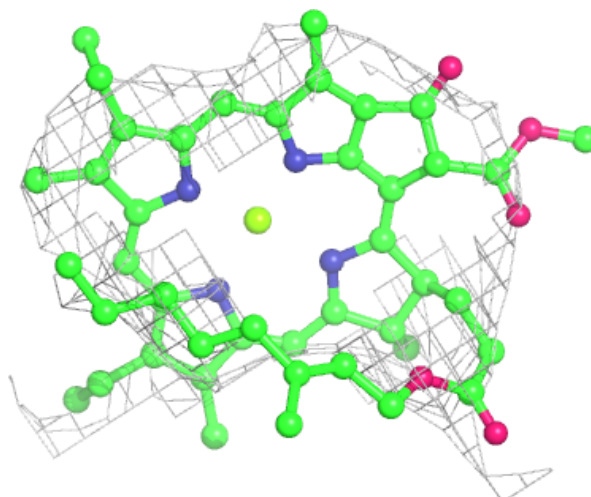
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

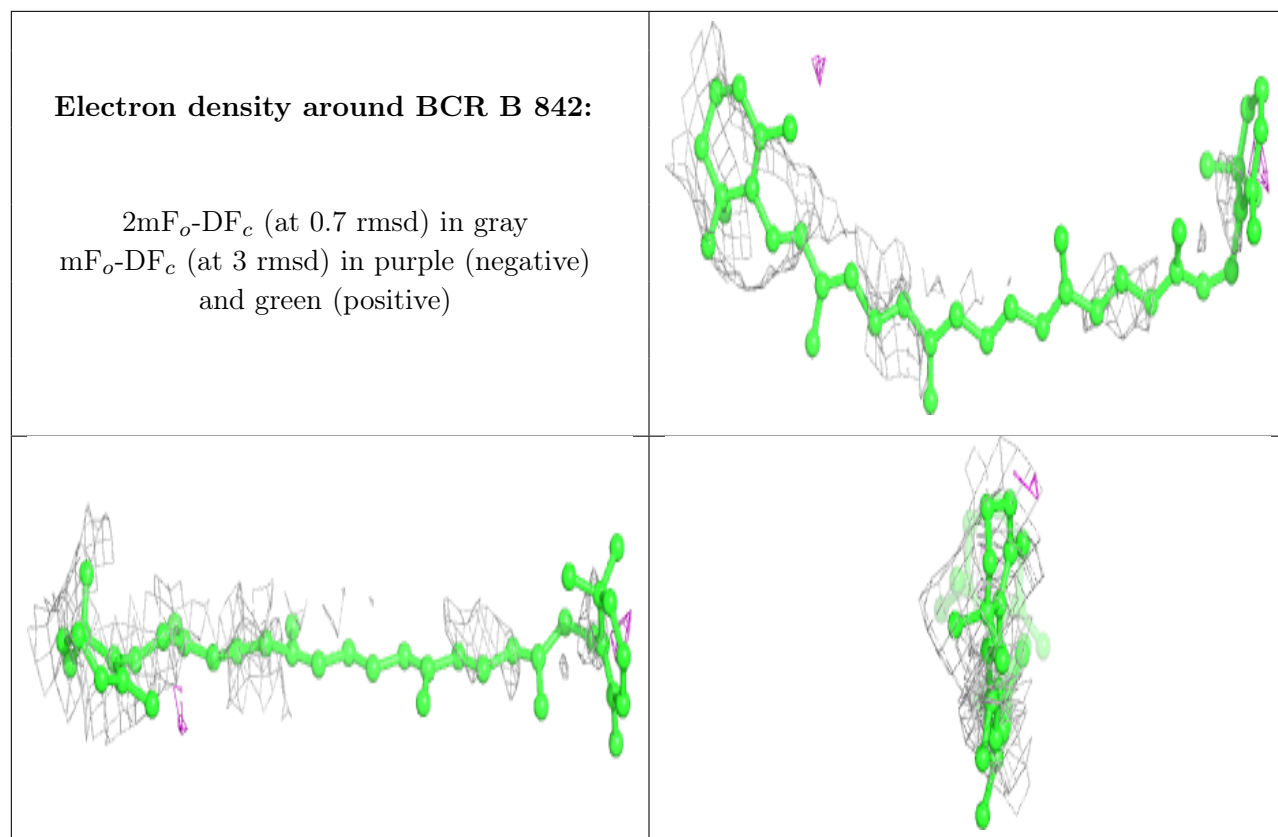




Electron density around CLA A 818:

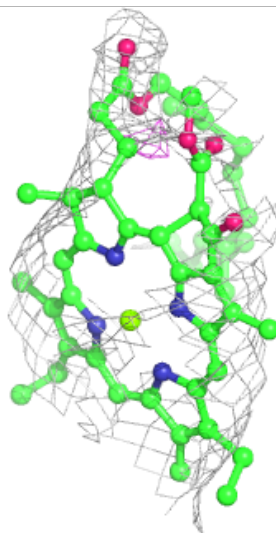
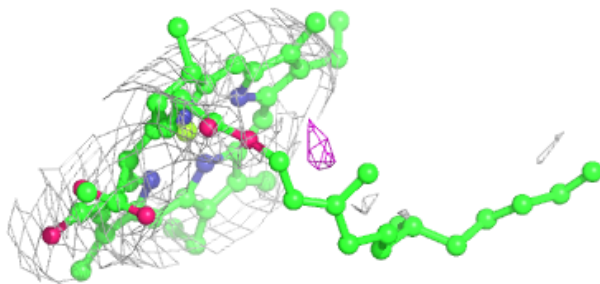
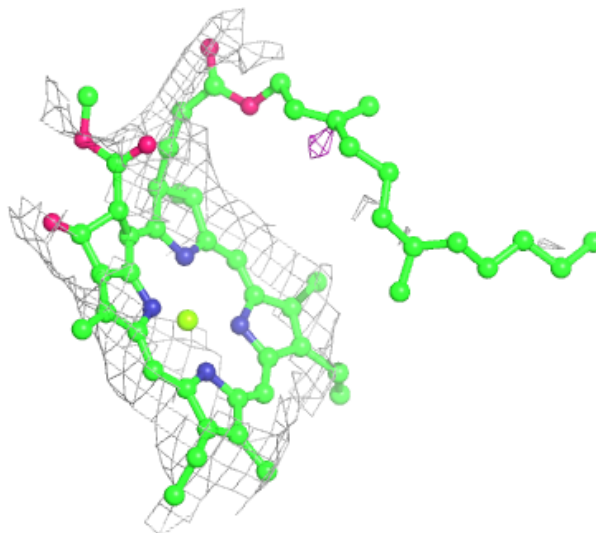
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





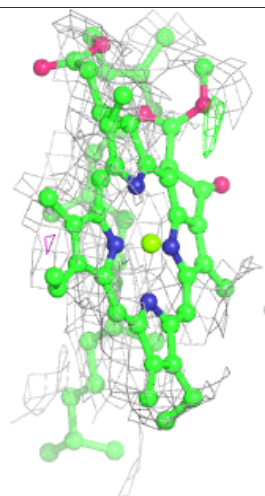
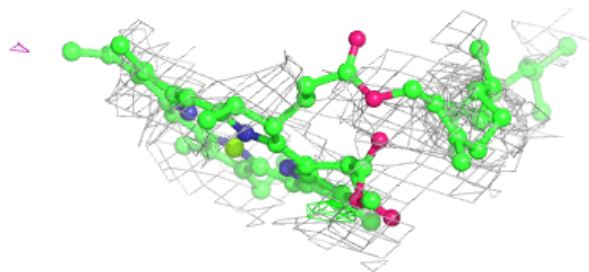
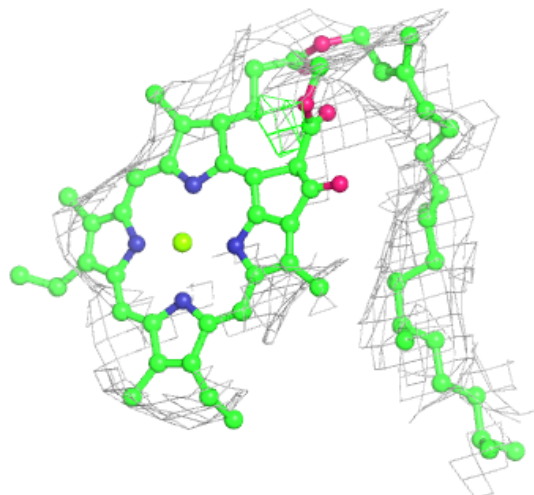
Electron density around CLA A 824:

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



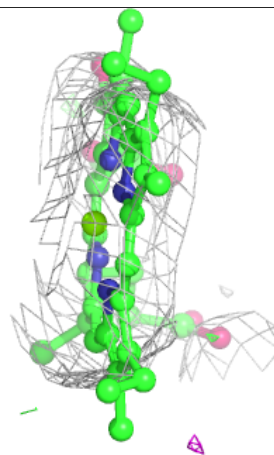
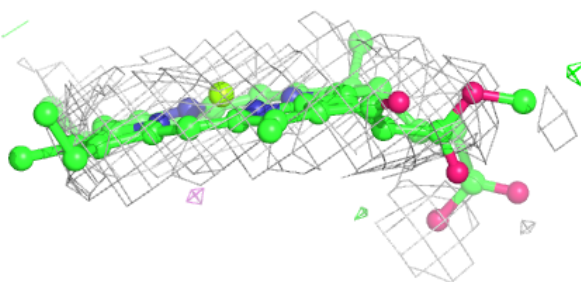
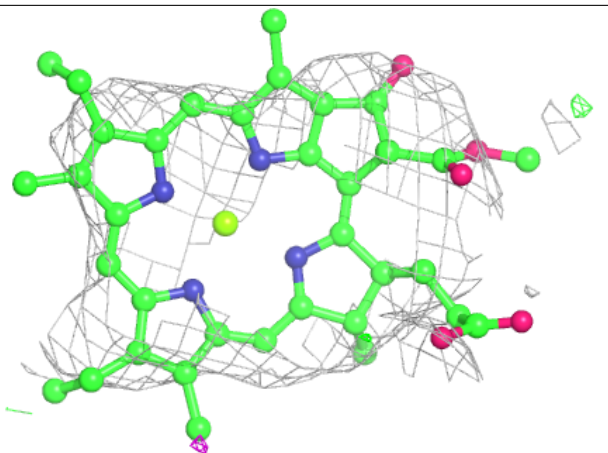
Electron density around CLA A 825:

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

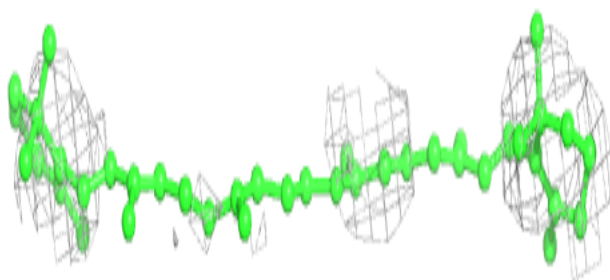
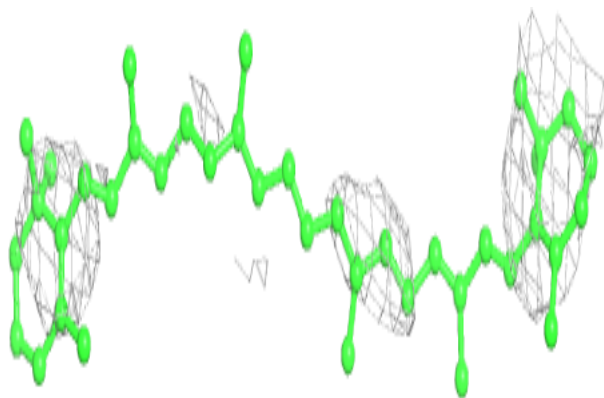


Electron density around CLA B 809:

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

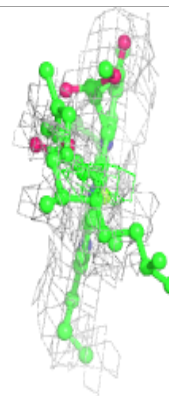
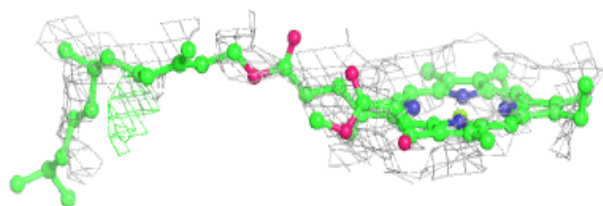
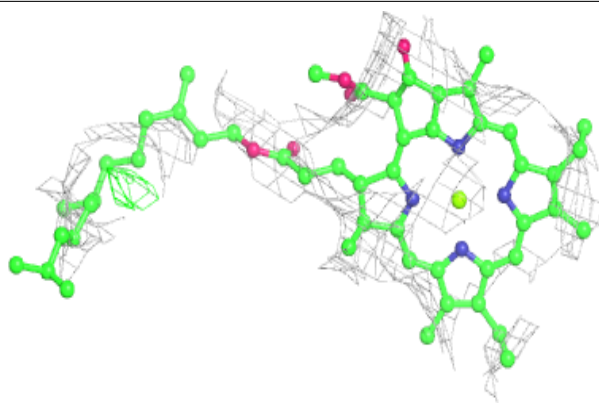
**Electron density around BCR J 1104:**

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

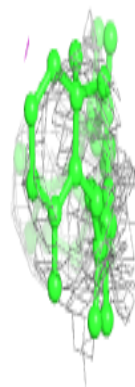
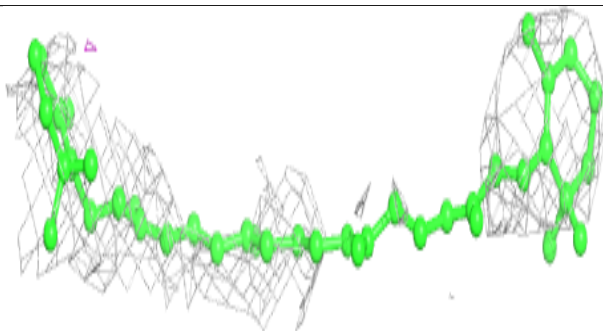
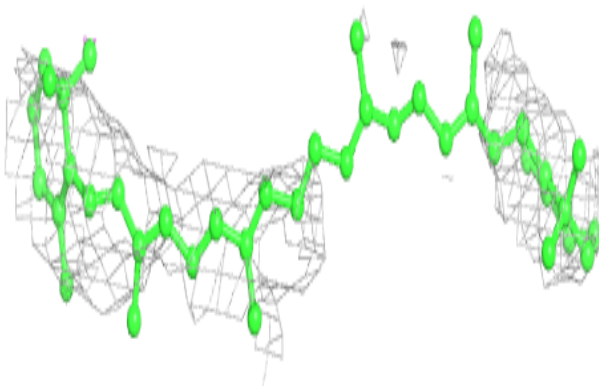


Electron density around CLA B 835:

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

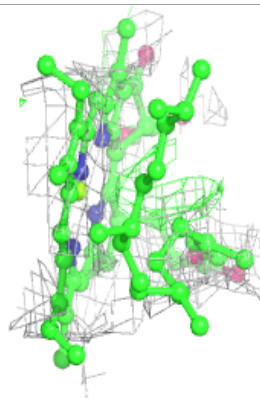
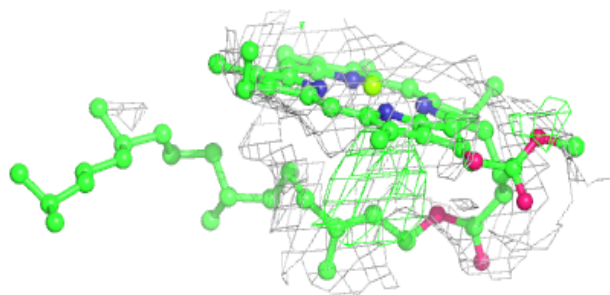
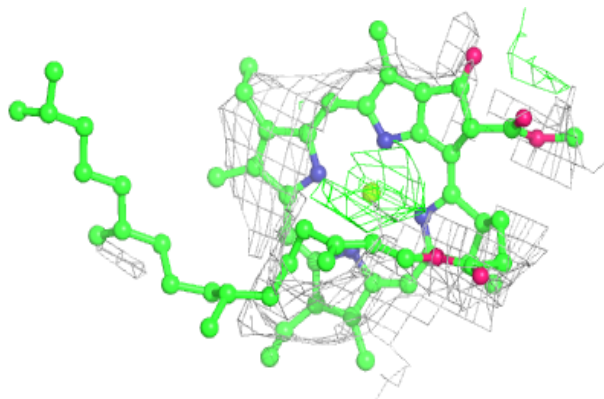
**Electron density around BCR M 1203:**

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

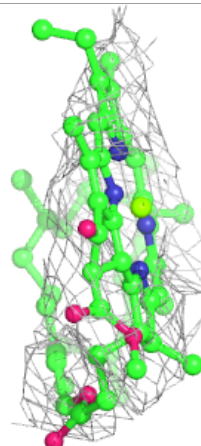
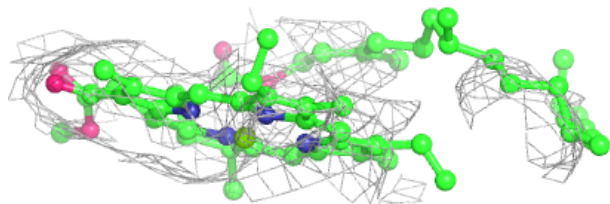
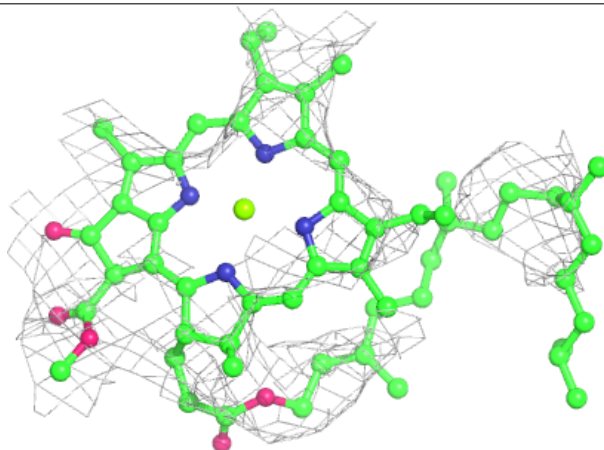


Electron density around CLA B 836:

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

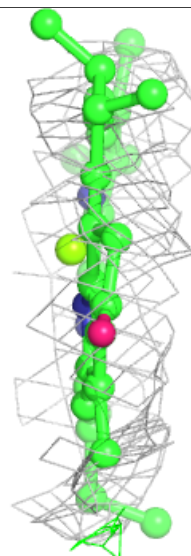
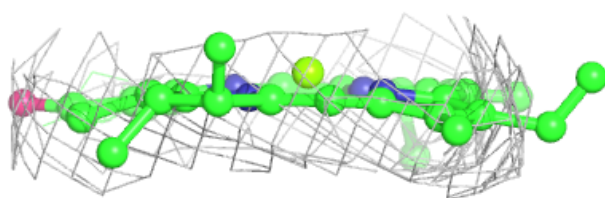
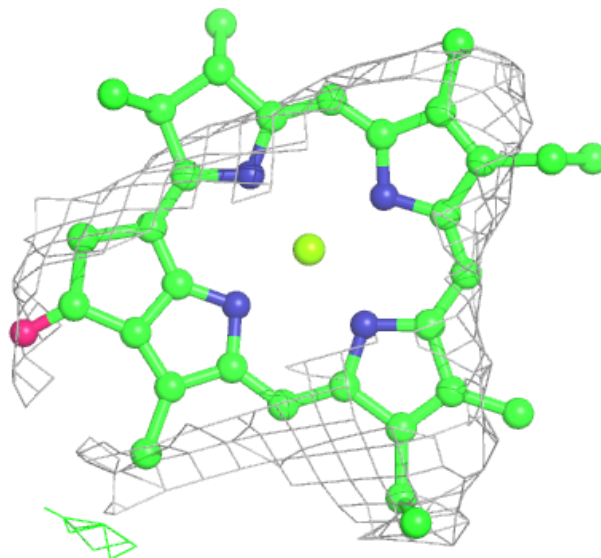
**Electron density around CLA A 819:**

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



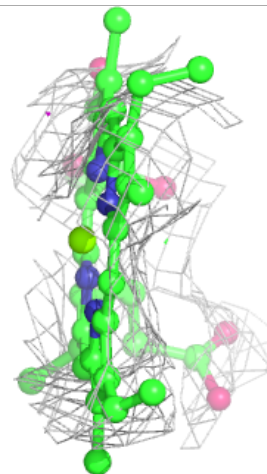
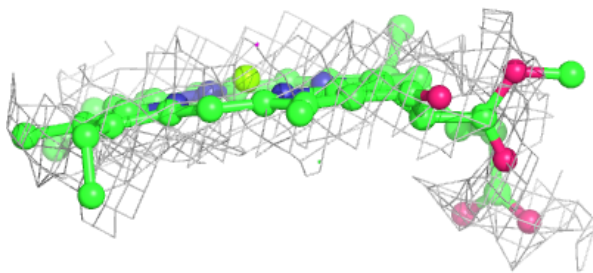
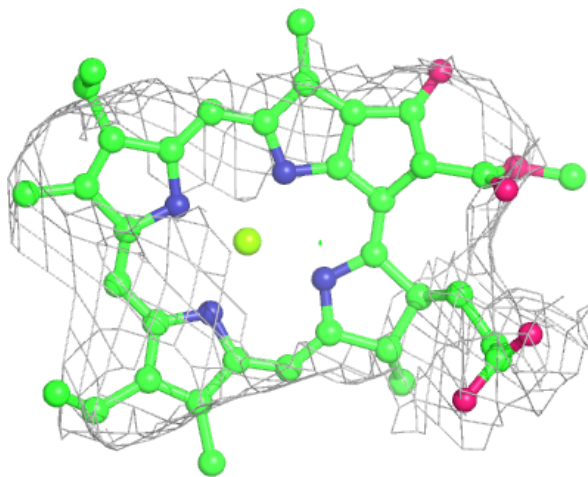
Electron density around CLA J 1103:

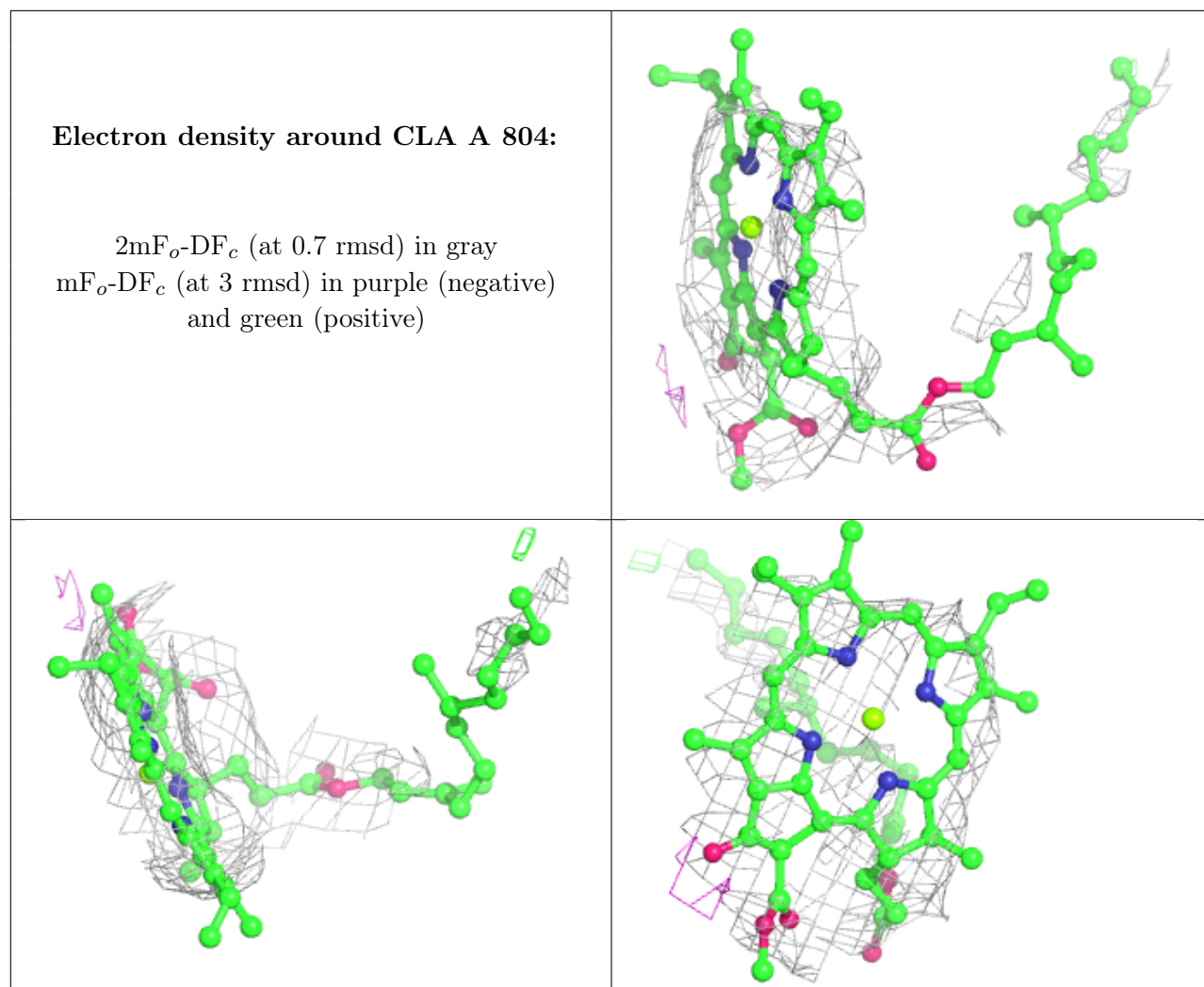
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 832:

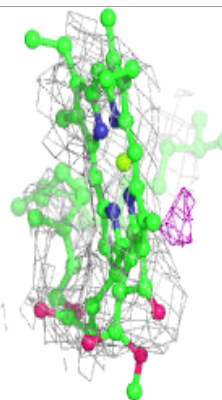
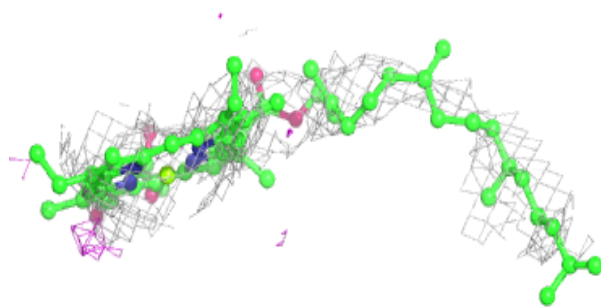
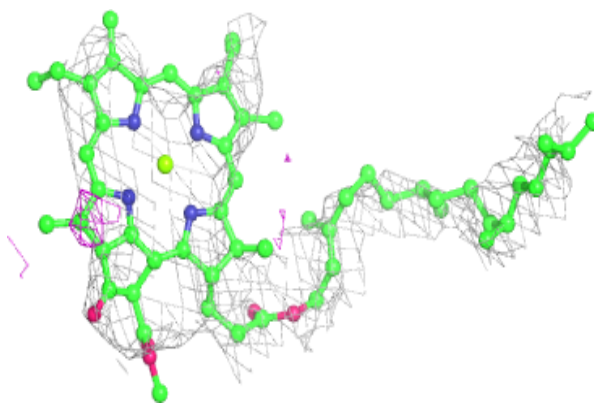
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



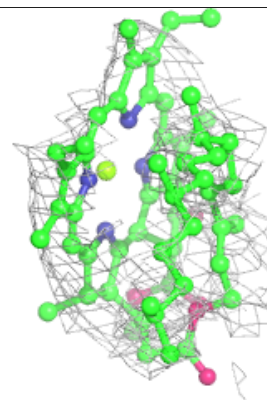
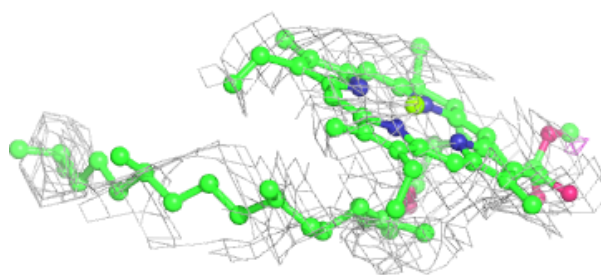
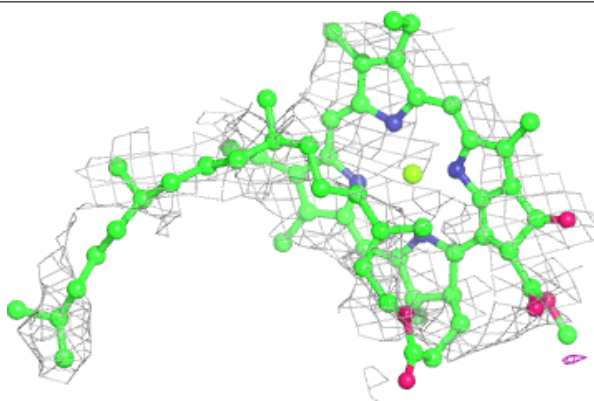


Electron density around CLA B 803:

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

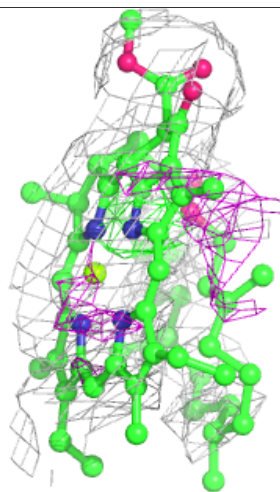
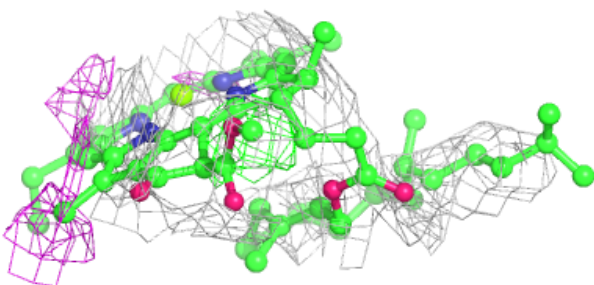
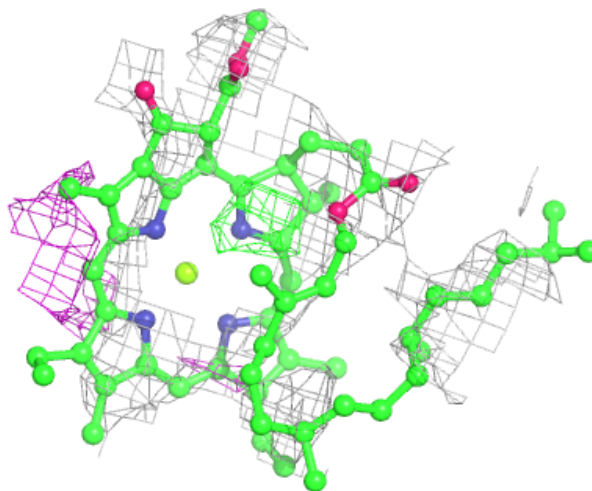
**Electron density around CLA B 806:**

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



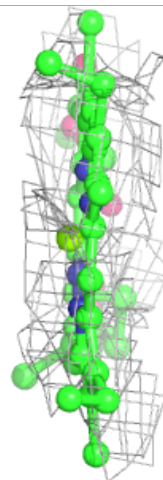
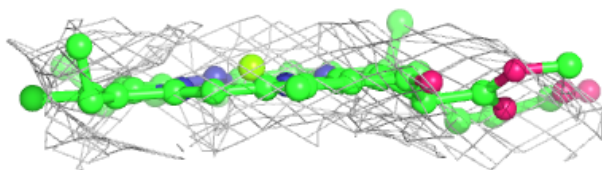
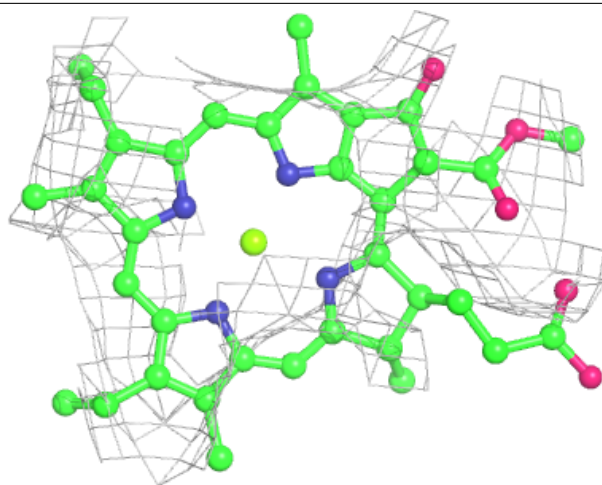
Electron density around CLA B 807:

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



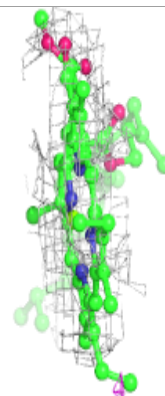
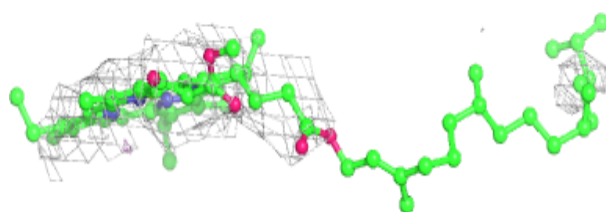
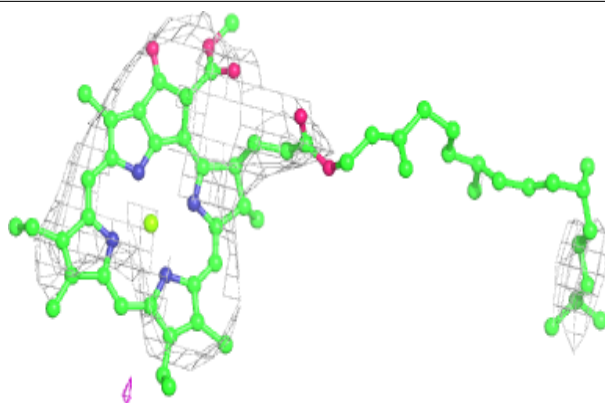
Electron density around CLA F 1301:

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

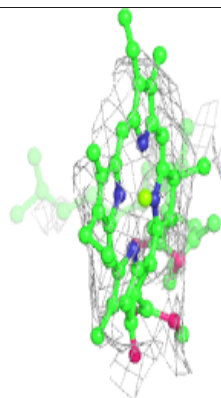
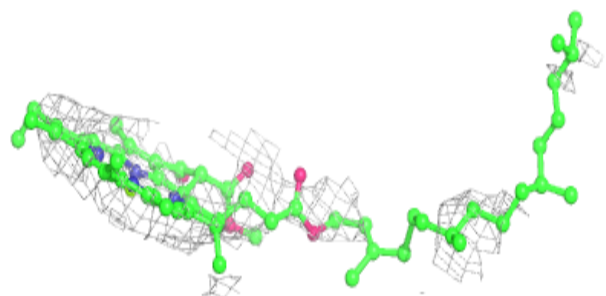
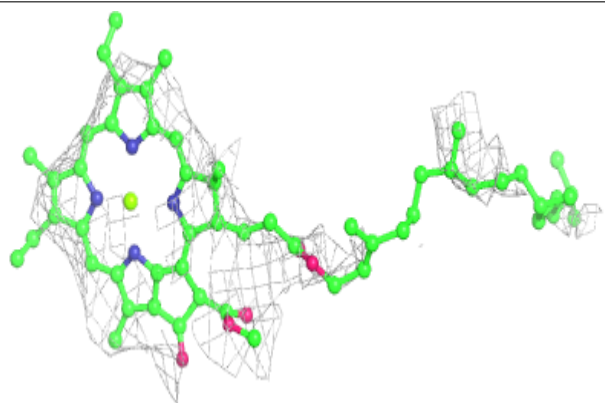


Electron density around CLA A 826:

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

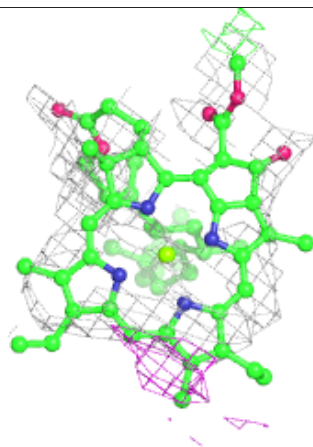
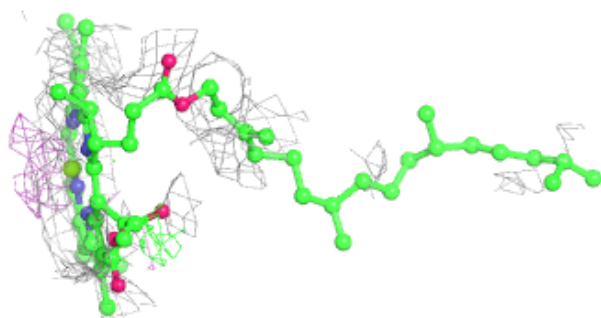
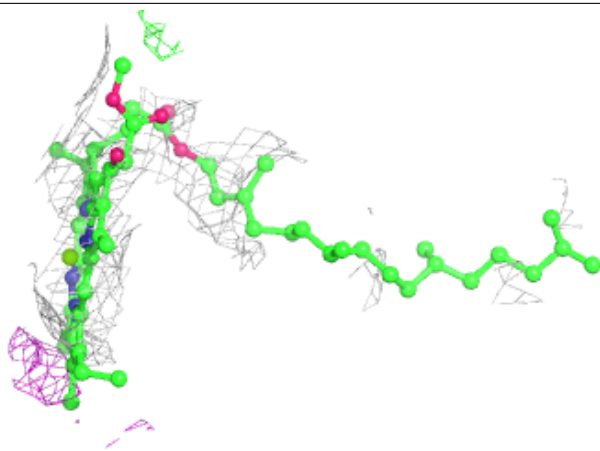
**Electron density around CLA A 805:**

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

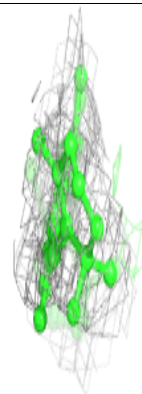
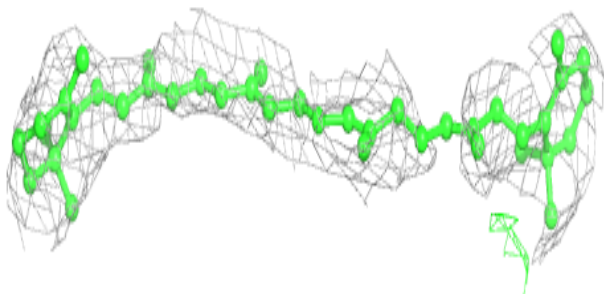
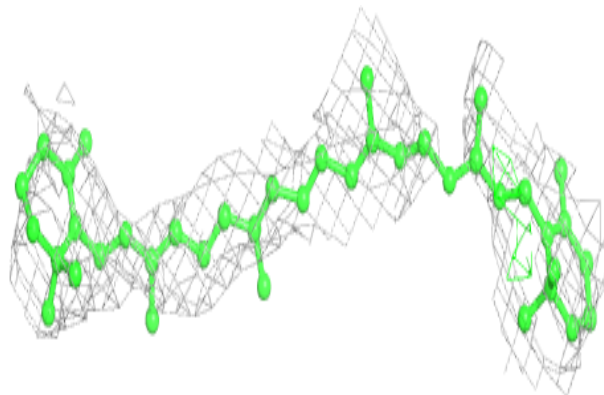


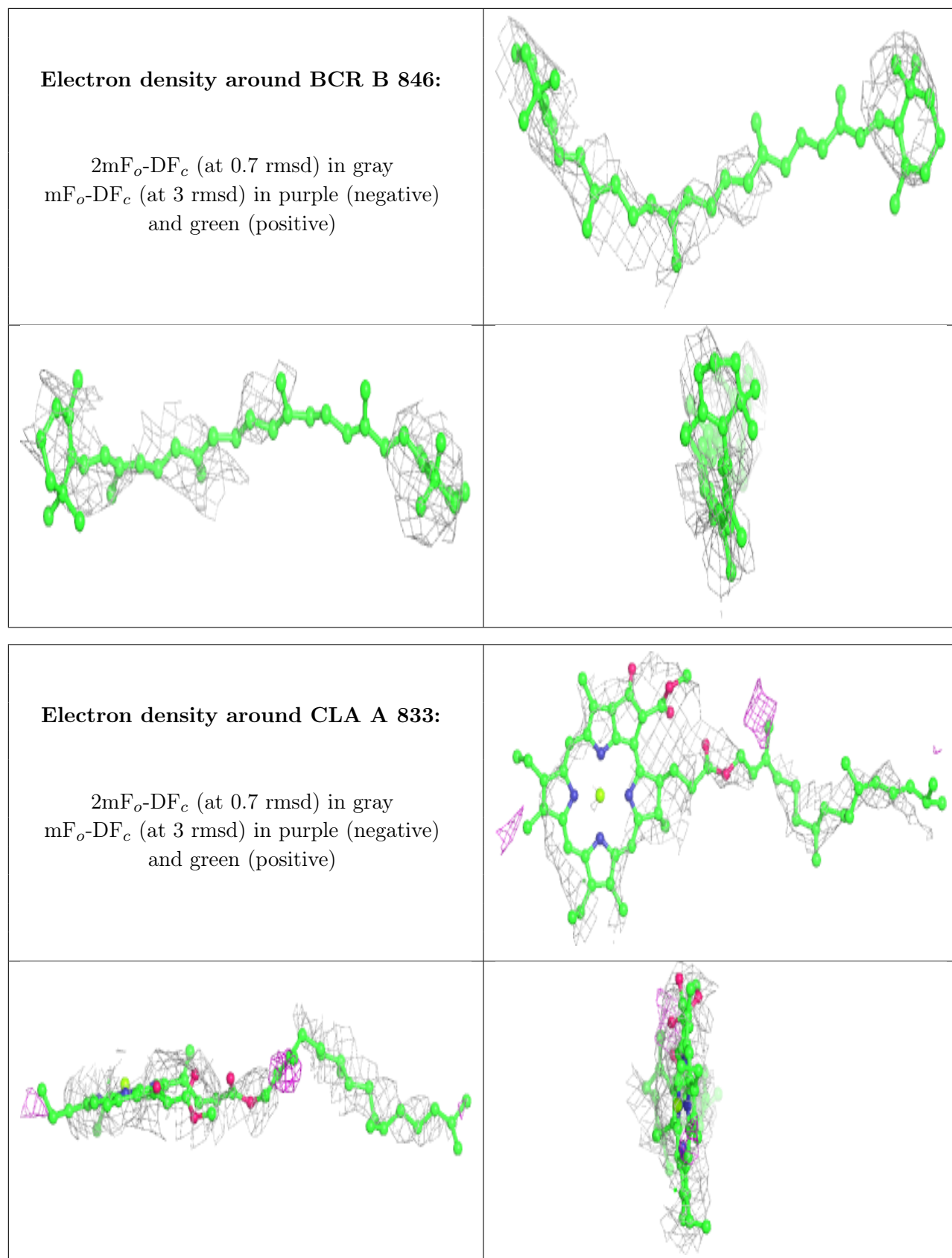
Electron density around CLA A 828:

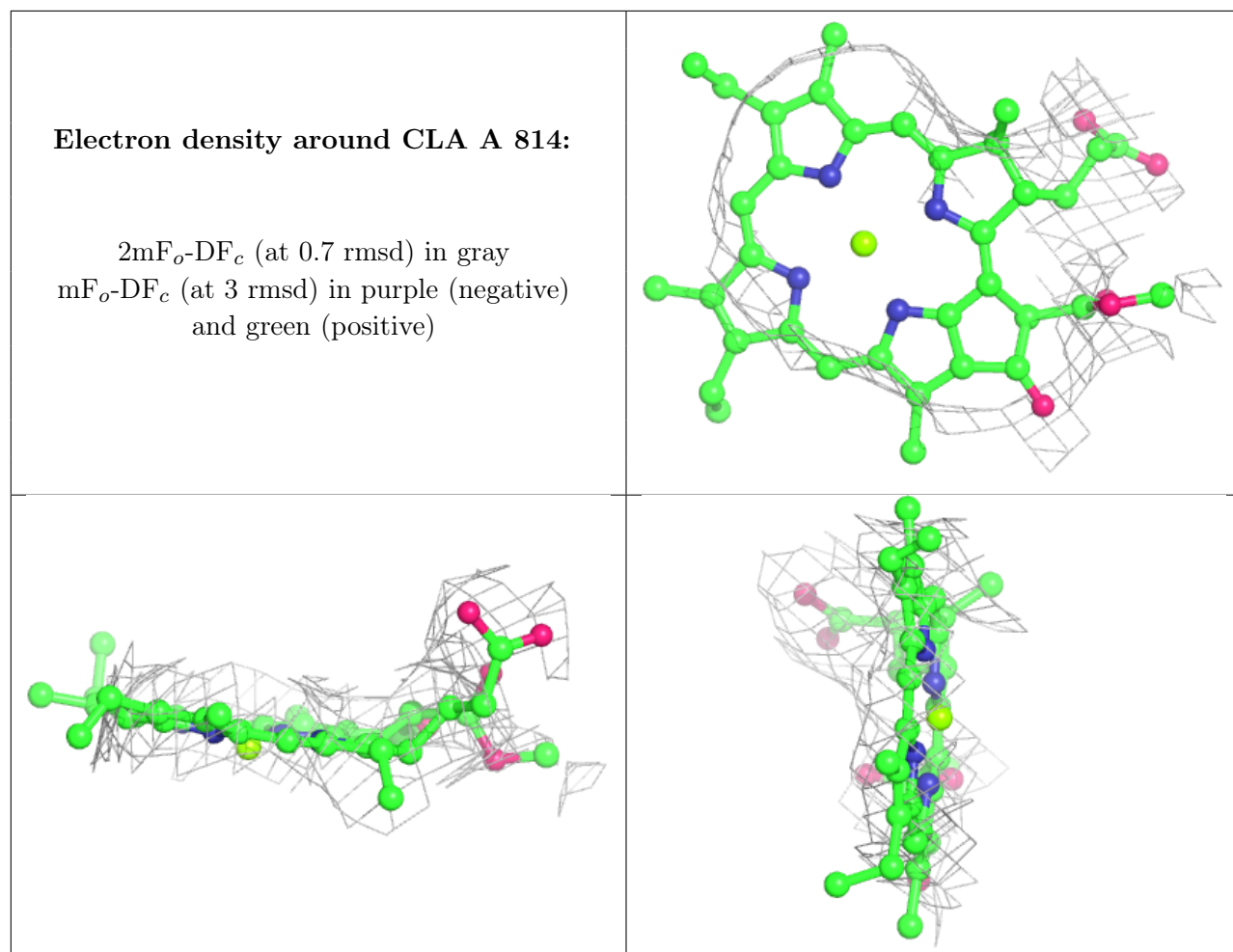
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

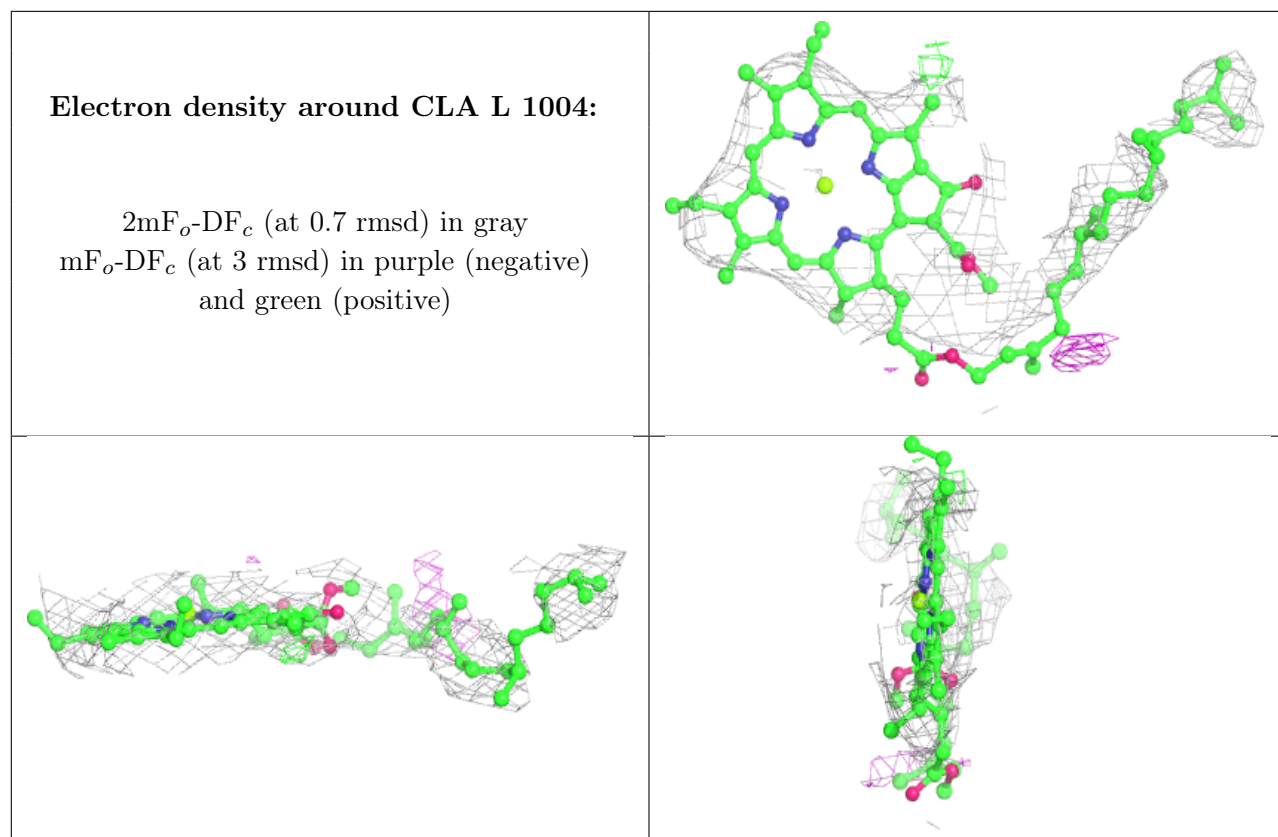
**Electron density around BCR B 845:**

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



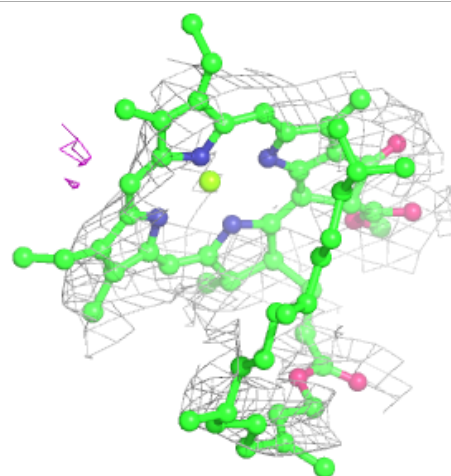
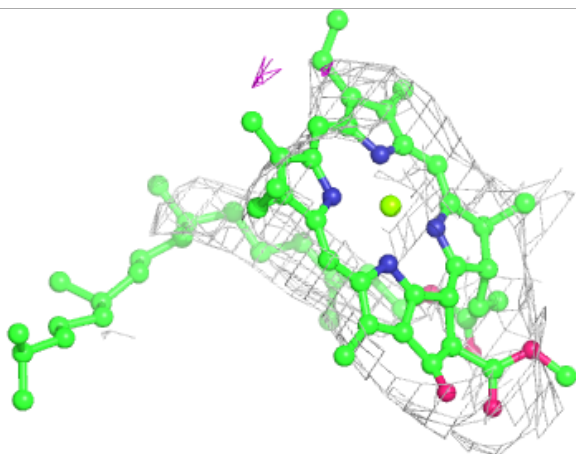
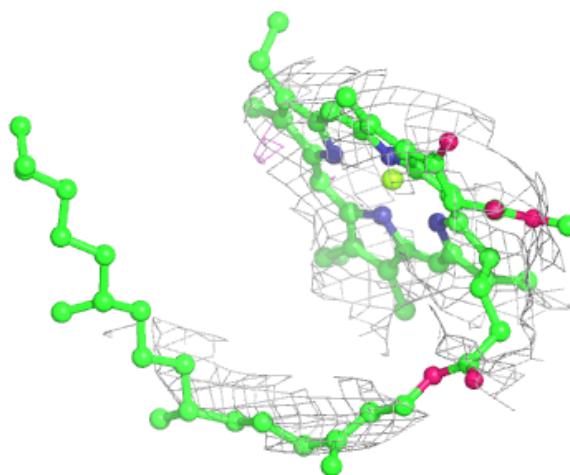






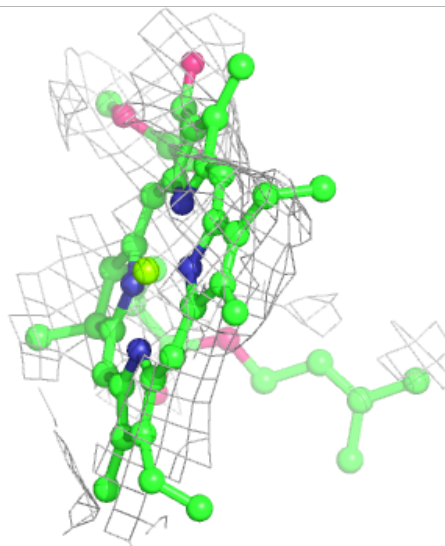
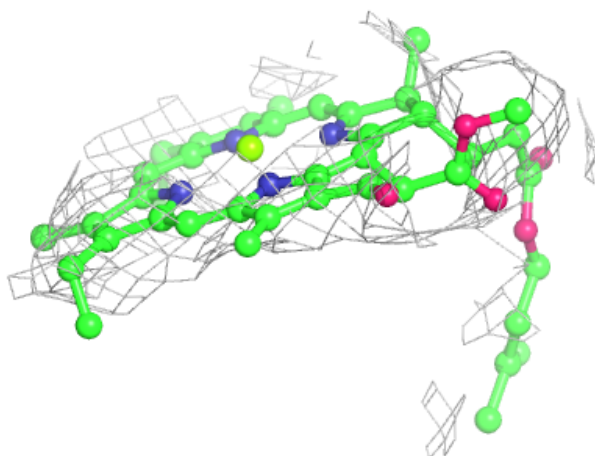
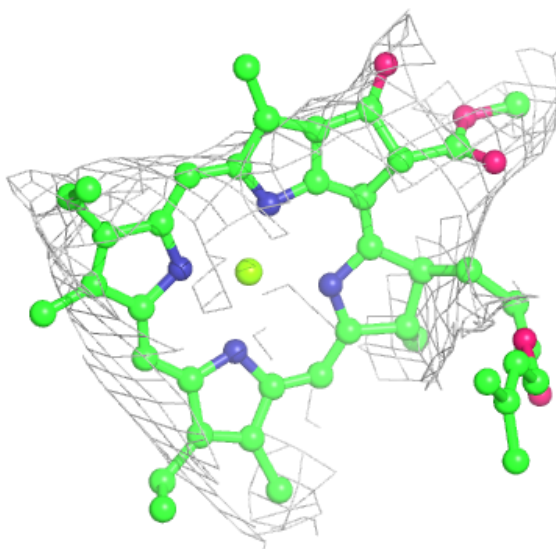
Electron density around CLA B 817:

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



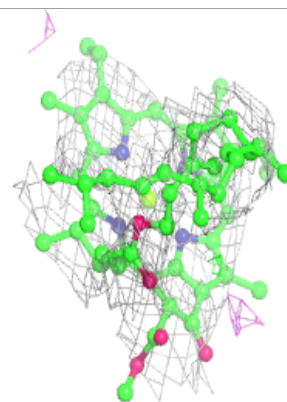
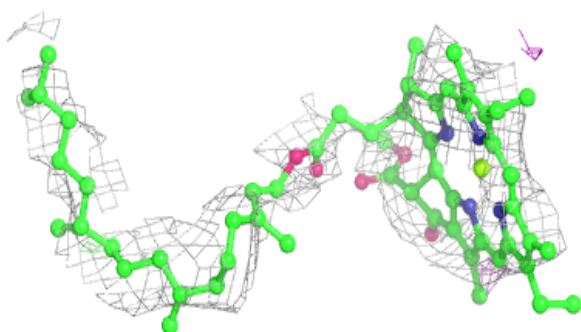
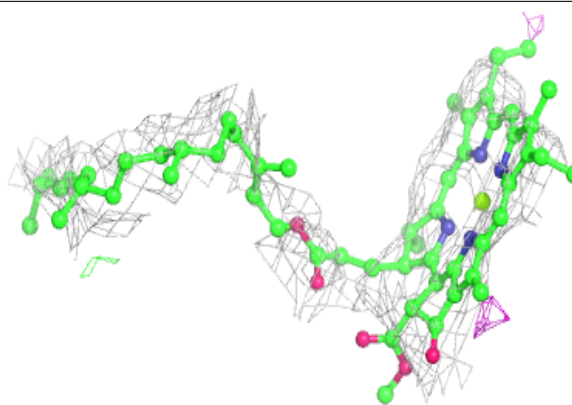
Electron density around CLA A 831:

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

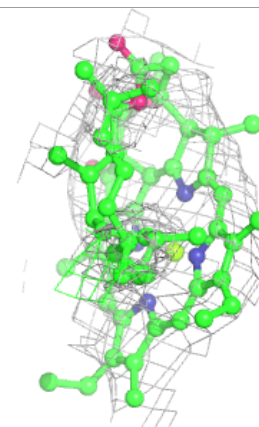
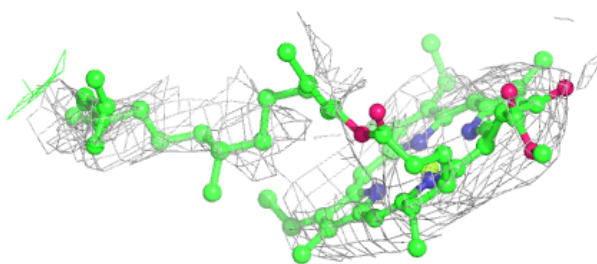
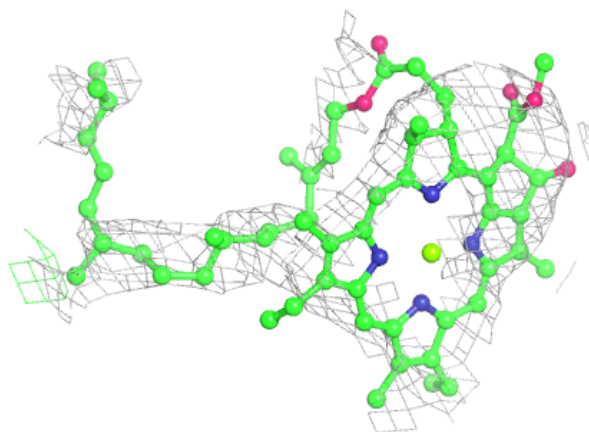


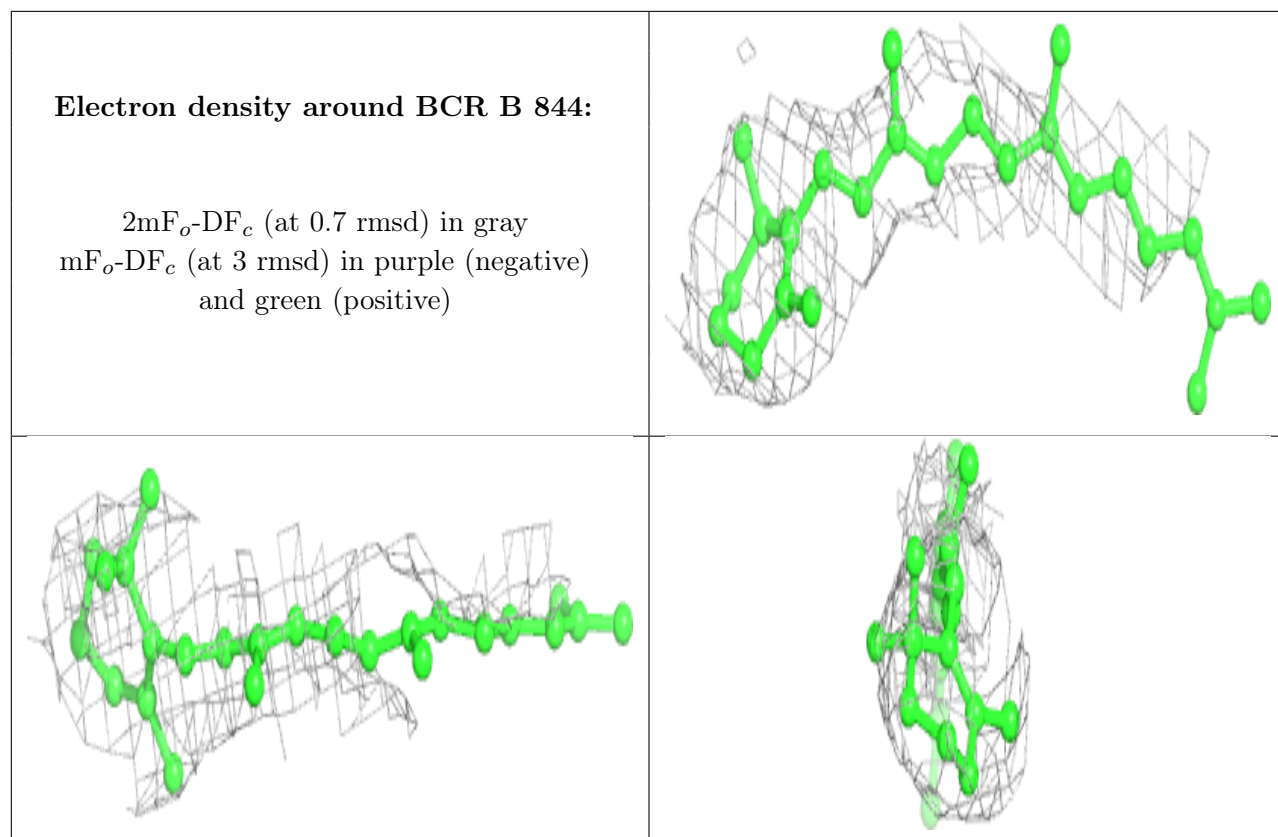
Electron density around CLA B 838:

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

**Electron density around CLA A 843:**

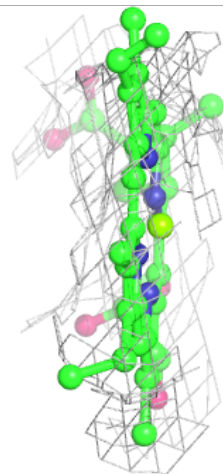
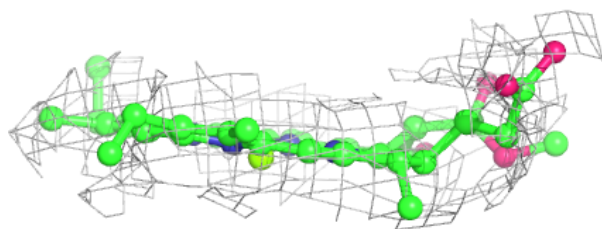
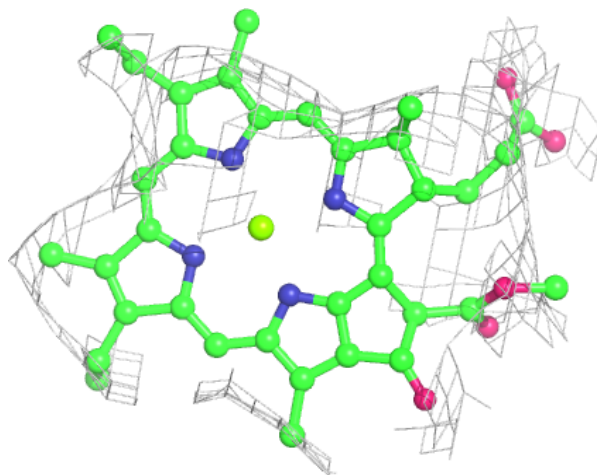
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





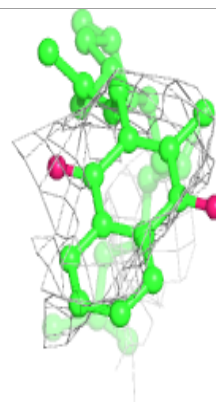
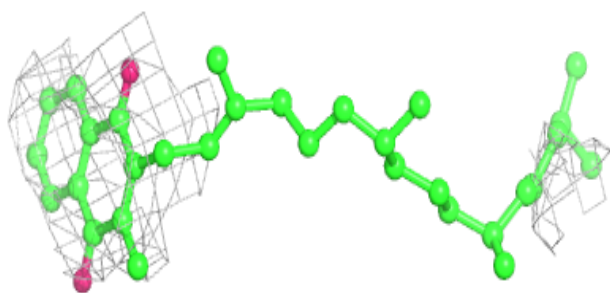
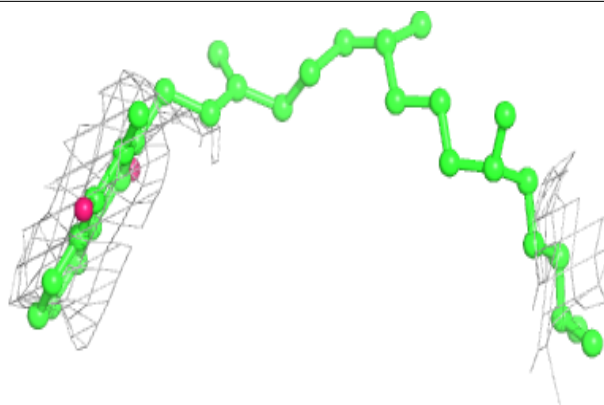
Electron density around CLA X 102:

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

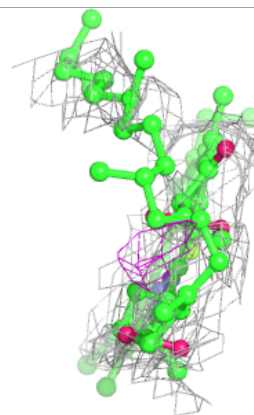
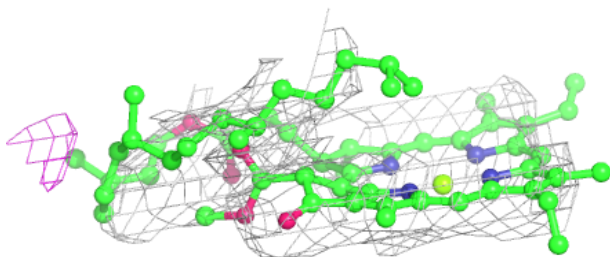
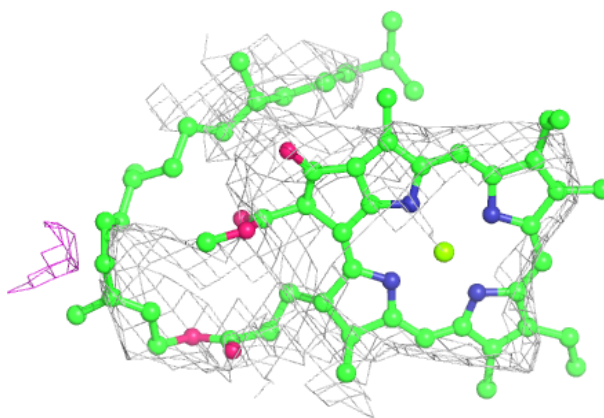


Electron density around PQN B 840:

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

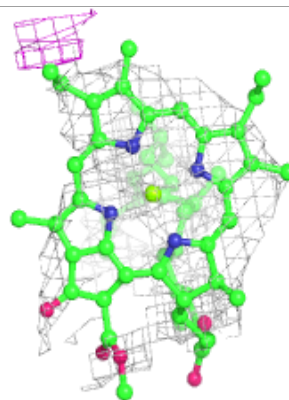
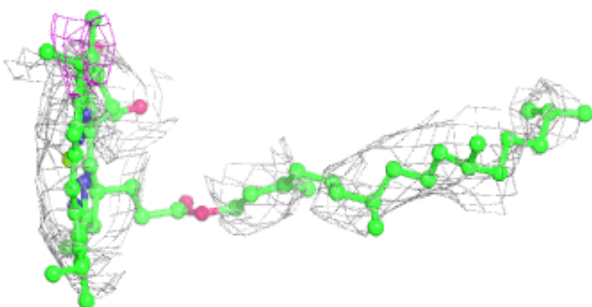
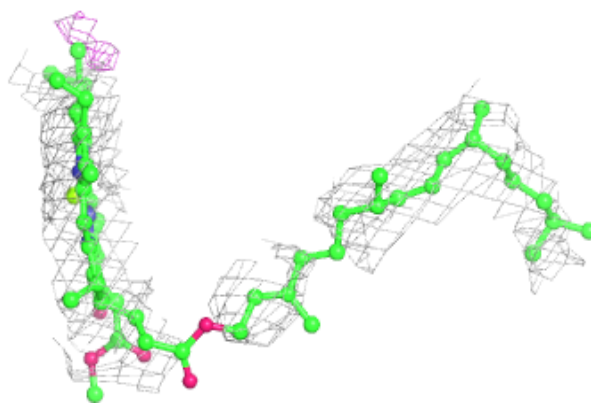
**Electron density around CLA B 804:**

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

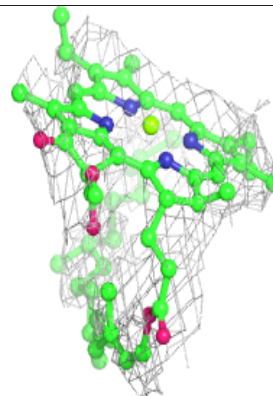
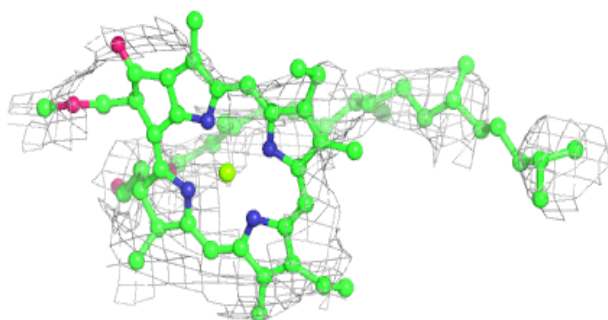
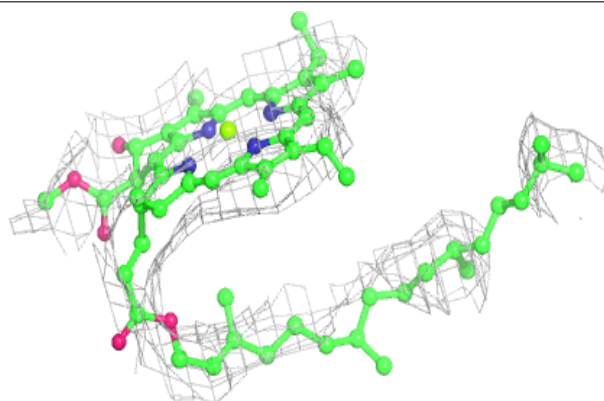


Electron density around CLA B 839:

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

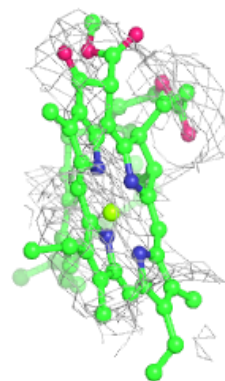
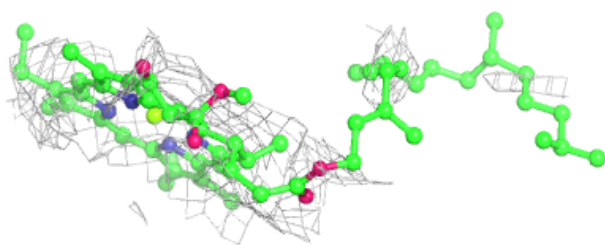
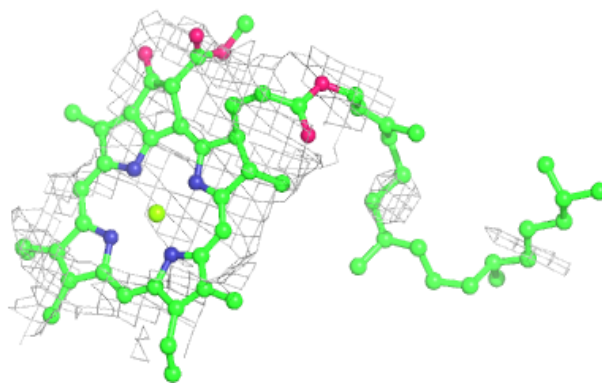
**Electron density around CLA A 832:**

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

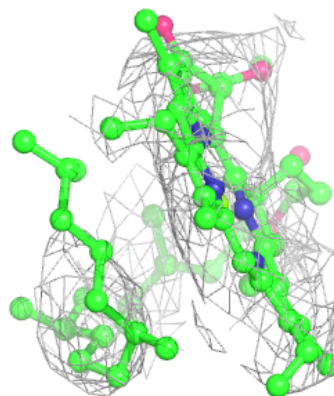
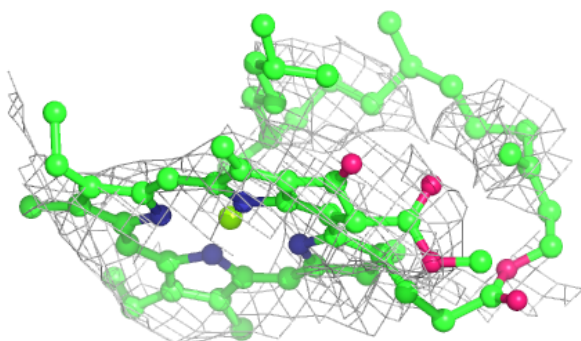
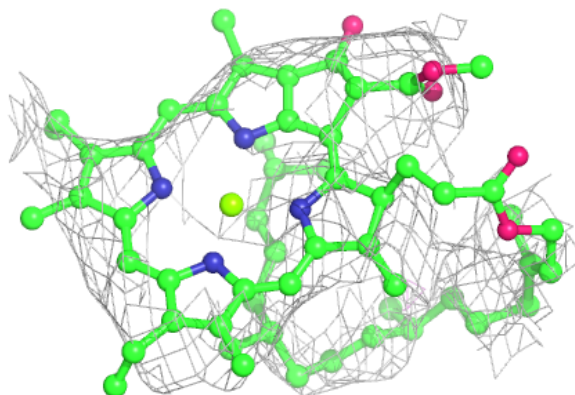


Electron density around CLA J 1101:

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

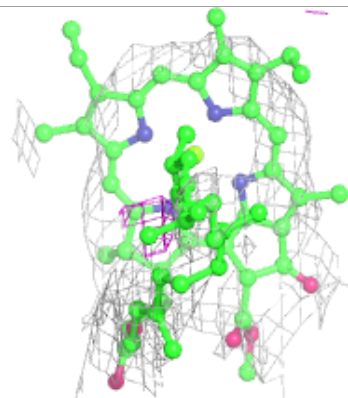
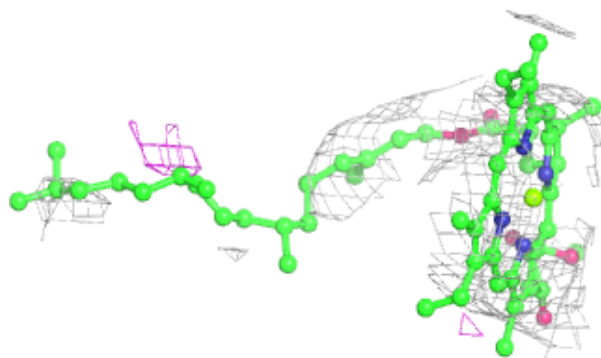
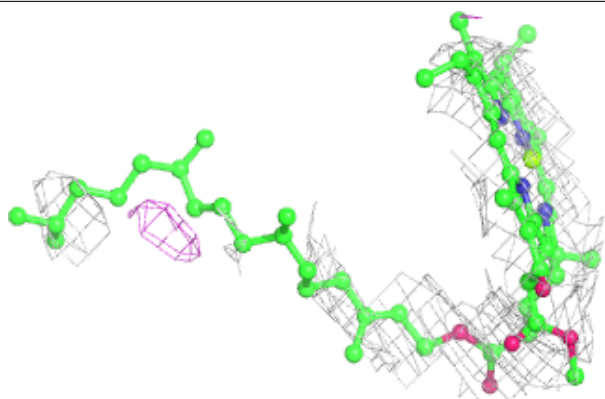
**Electron density around CLA A 806:**

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

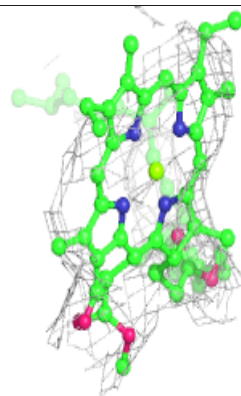
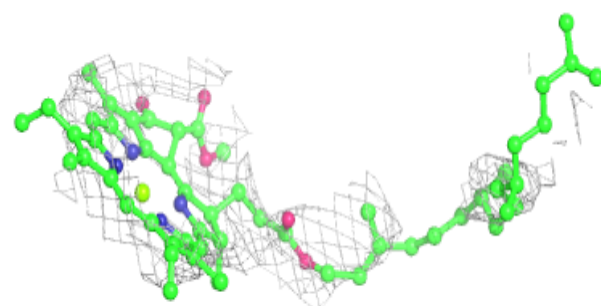
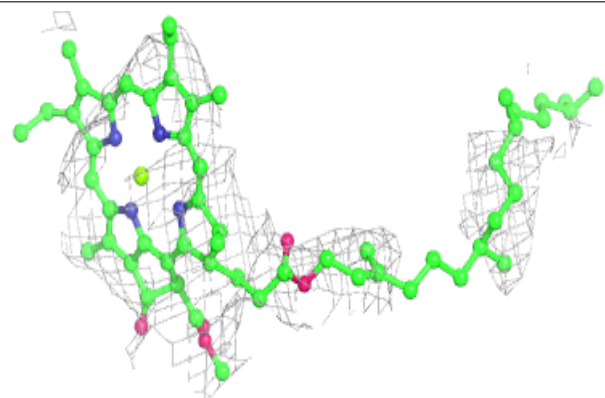


Electron density around CLA A 830:

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

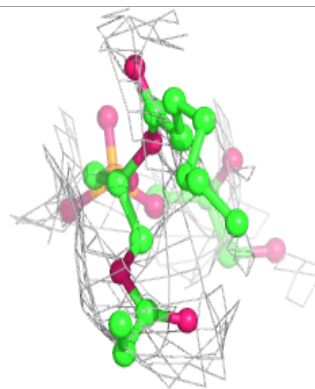
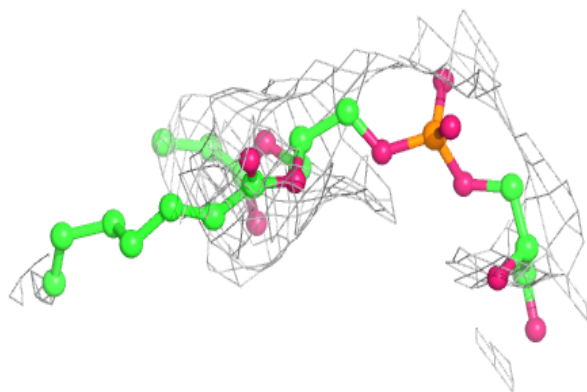
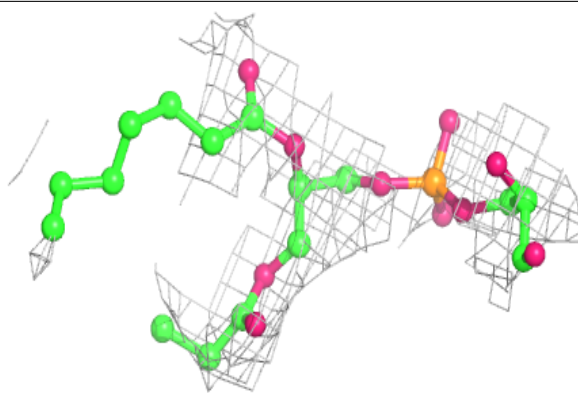
**Electron density around CLA B 802:**

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

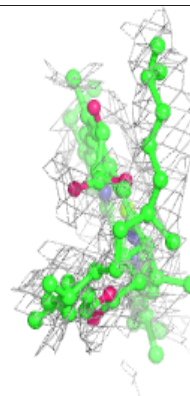
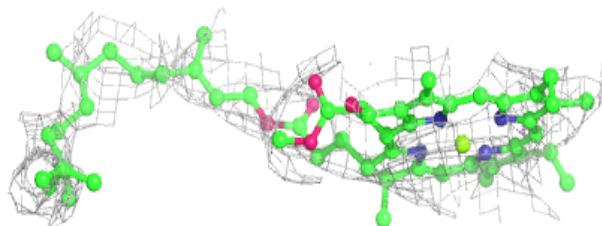
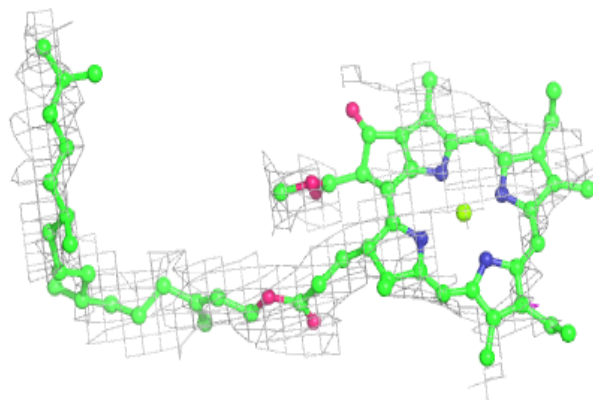


Electron density around LHG A 854:

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

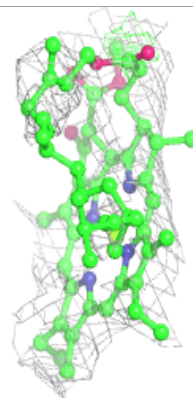
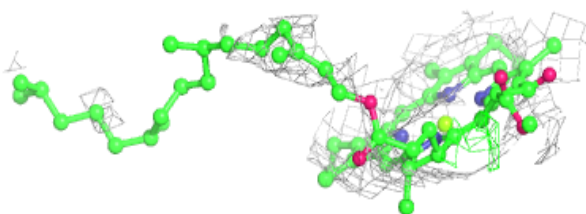
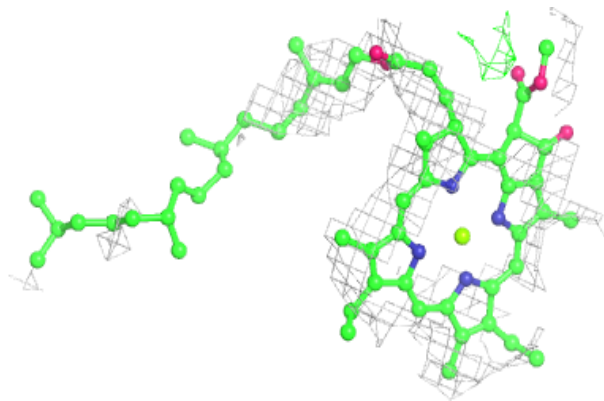
**Electron density around CLA B 824:**

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

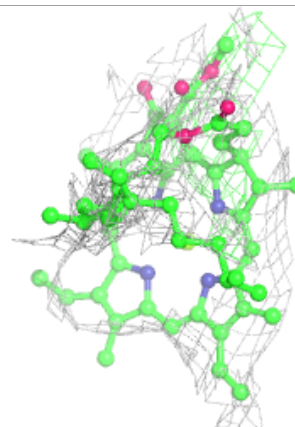
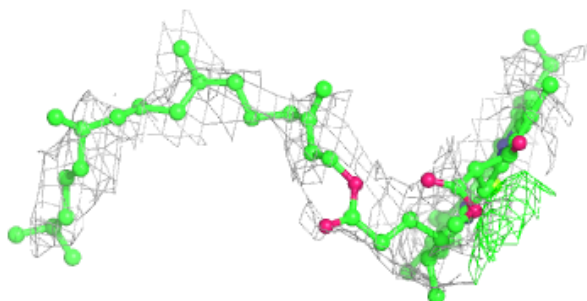
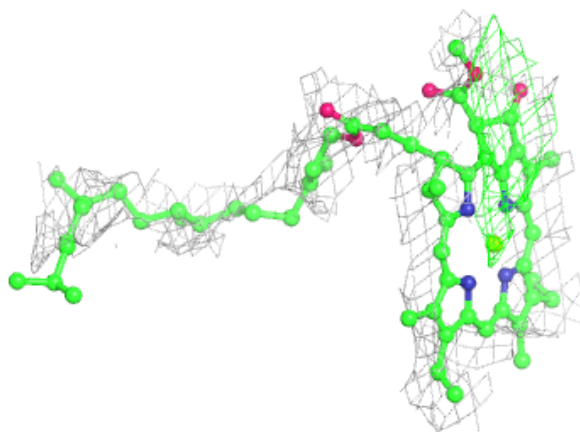


Electron density around CLA A 808:

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

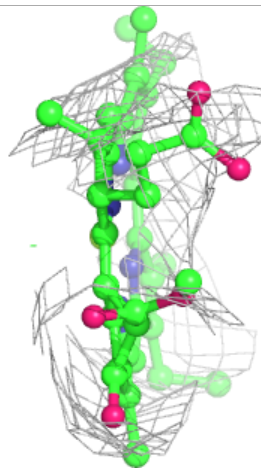
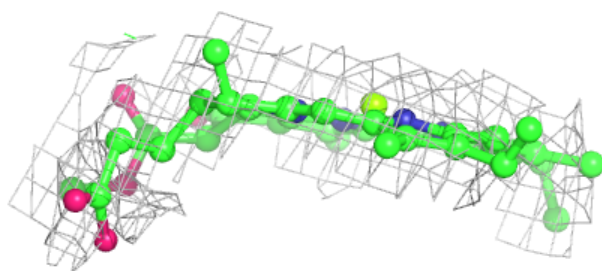
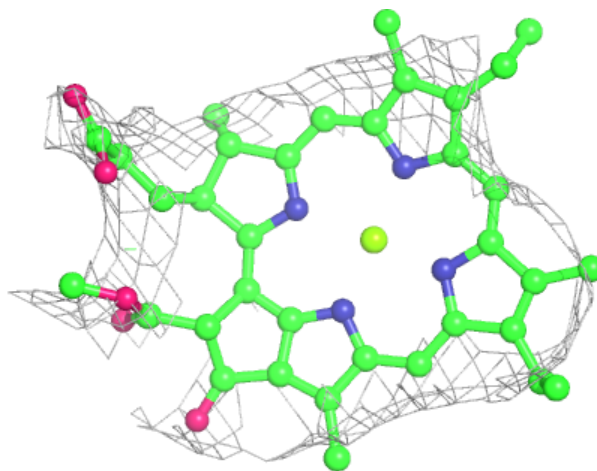
**Electron density around CLA L 1003:**

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



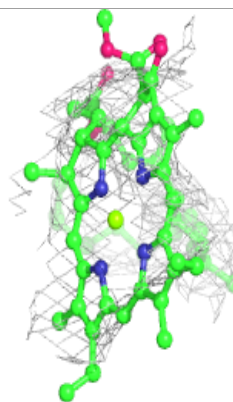
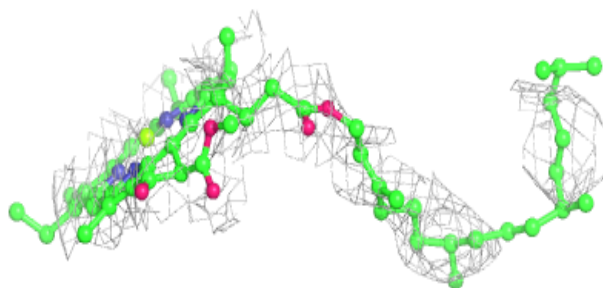
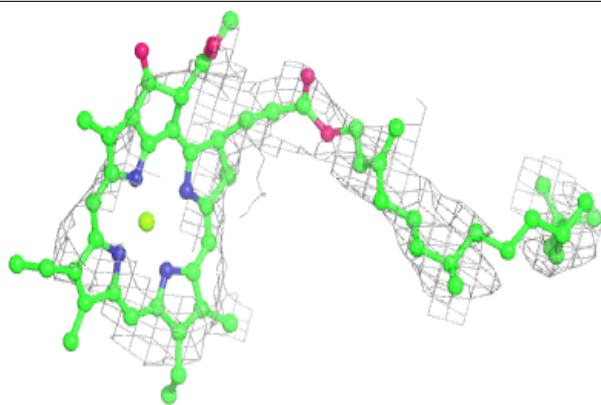
Electron density around CLA B 821:

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

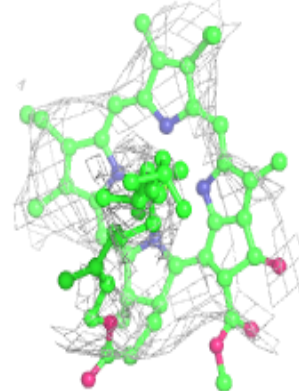
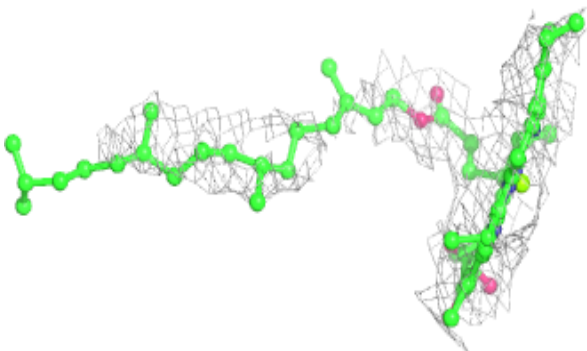
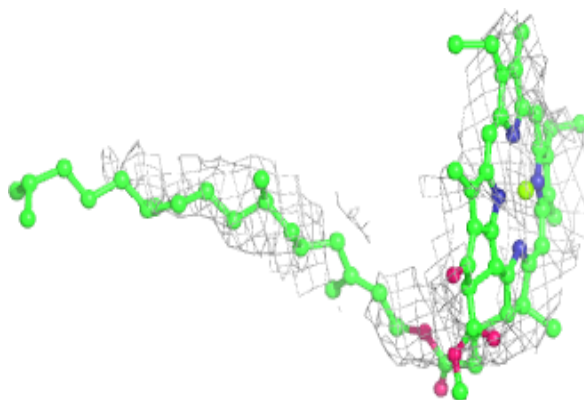


Electron density around CLA B 808:

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

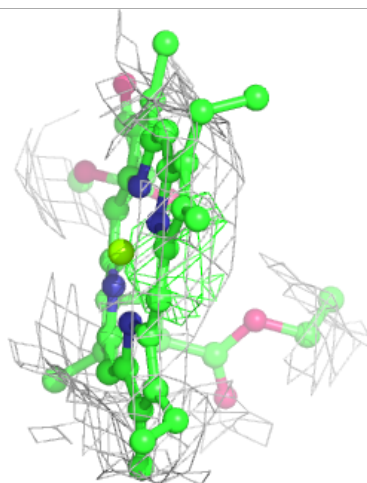
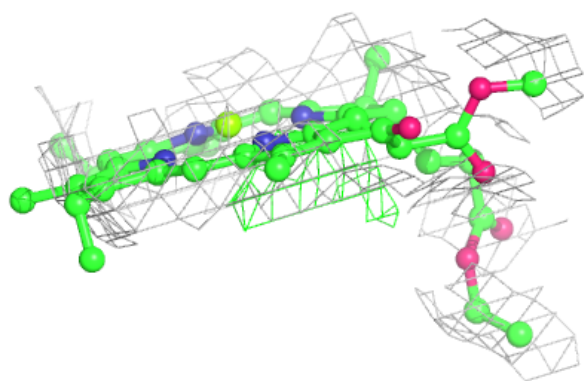
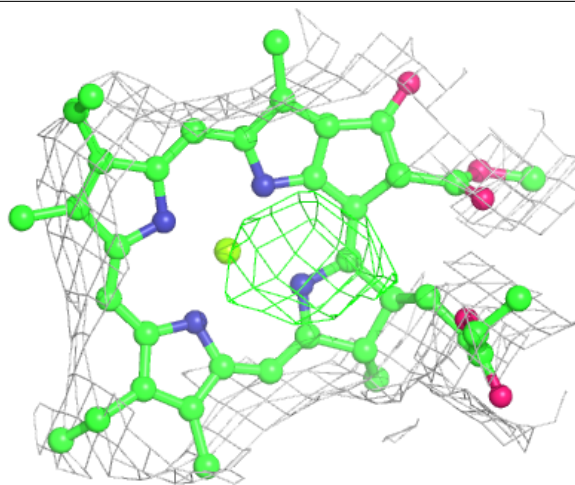
**Electron density around CLA B 826:**

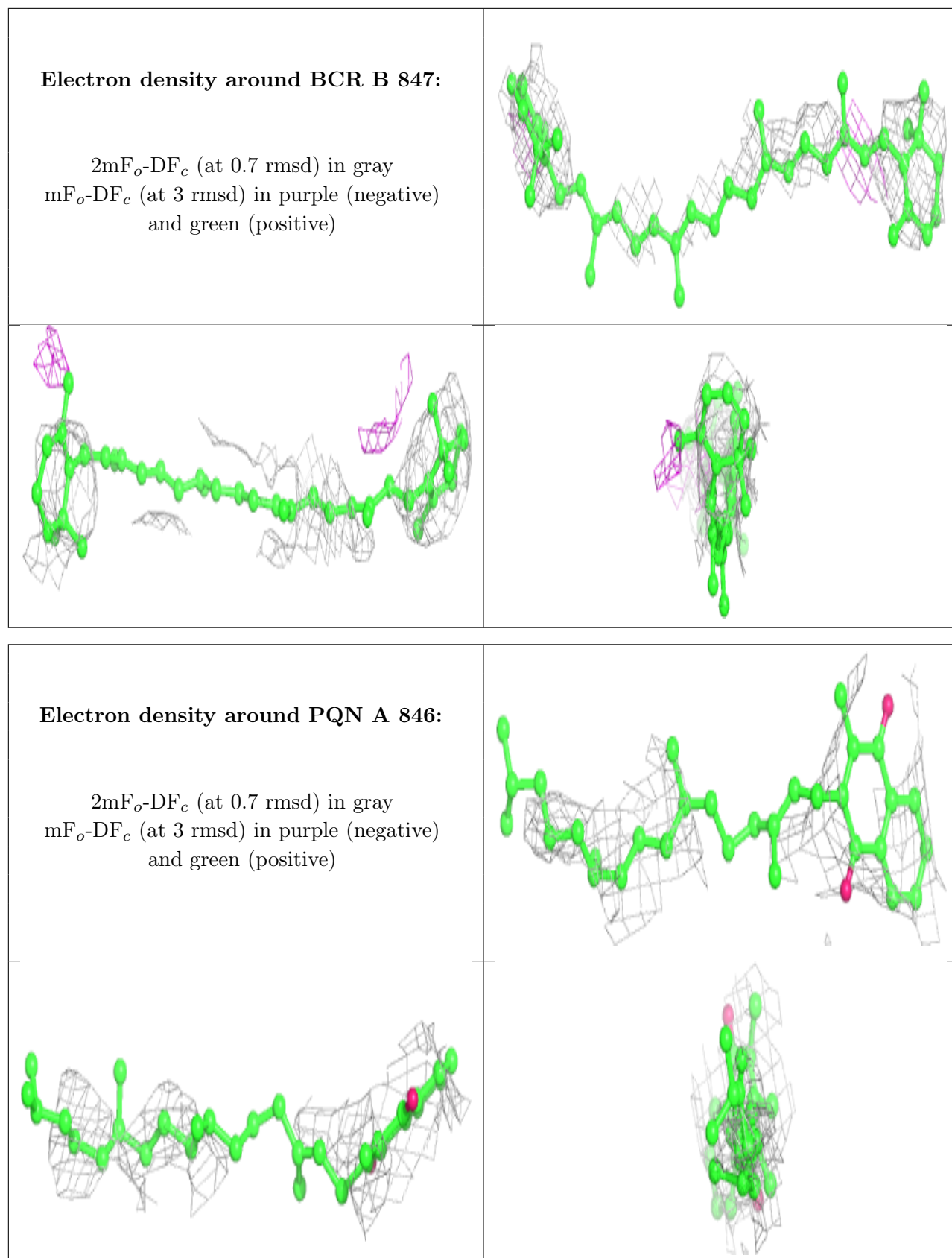
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 837:

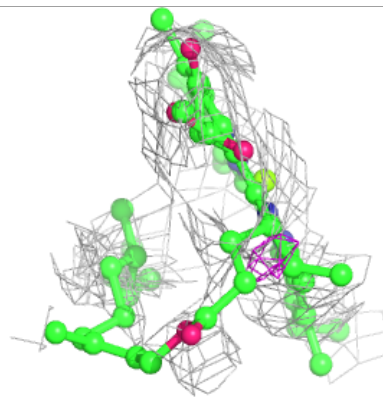
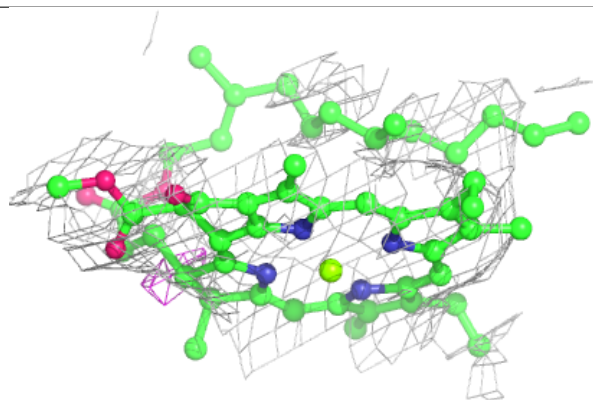
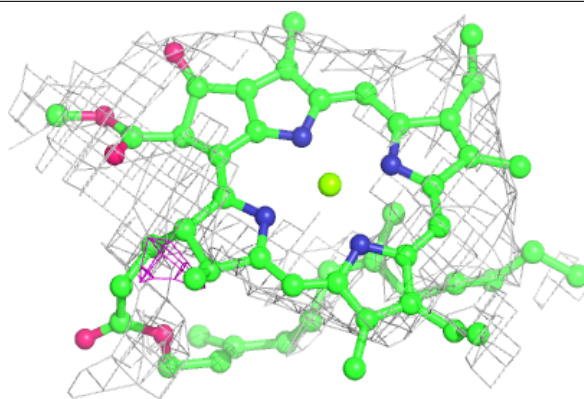
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



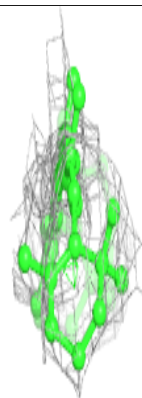
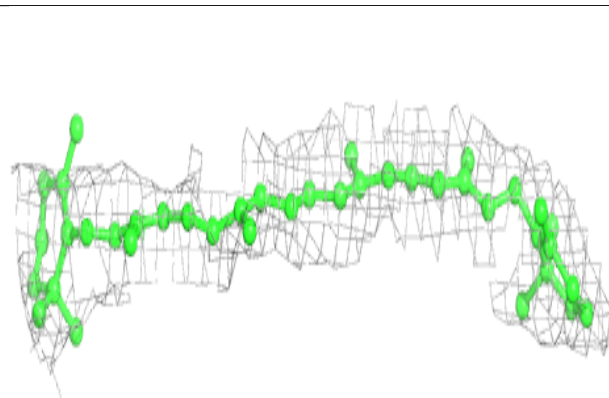
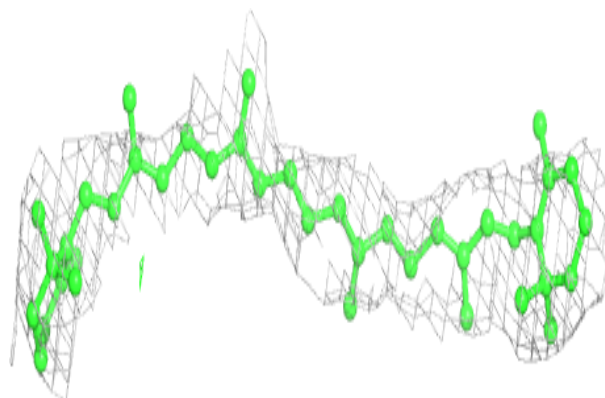


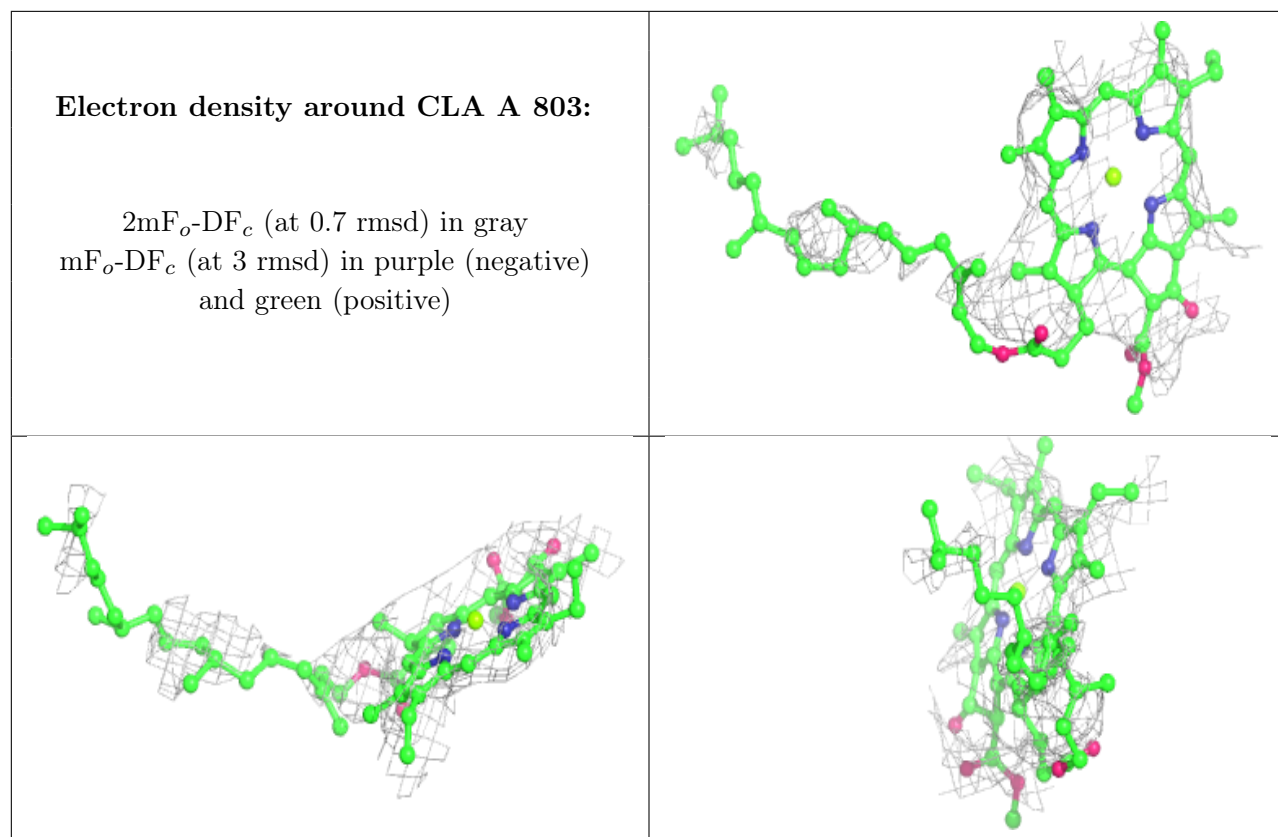
Electron density around CLA B 815:

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

**Electron density around BCR I 102:**

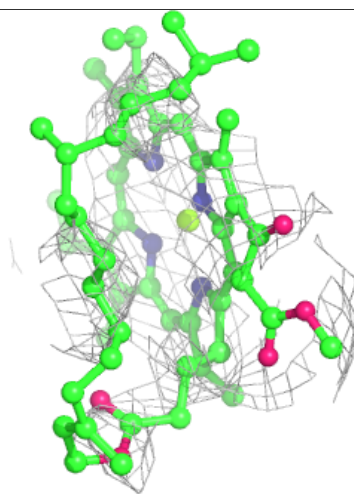
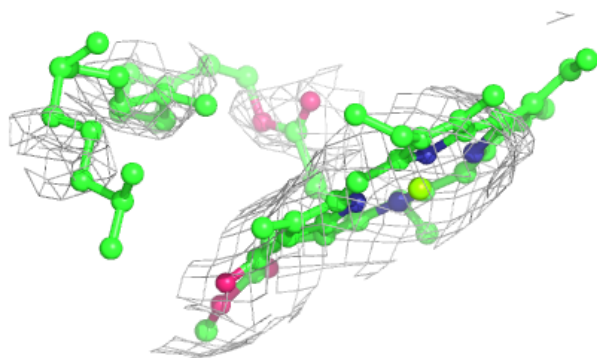
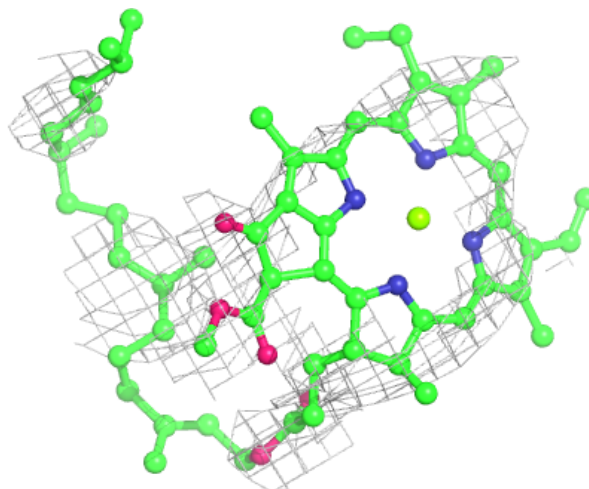
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





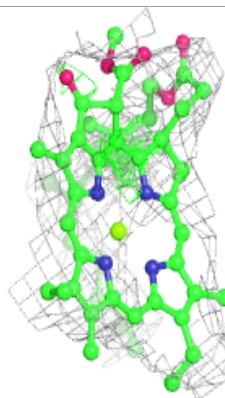
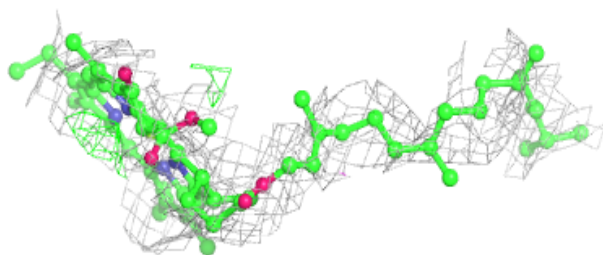
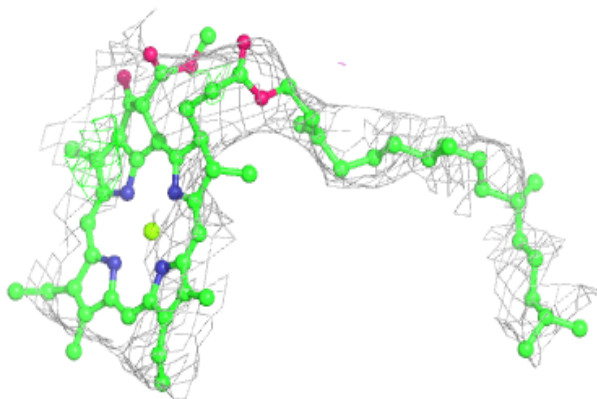
Electron density around CLA B 830:

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

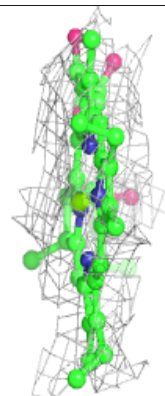
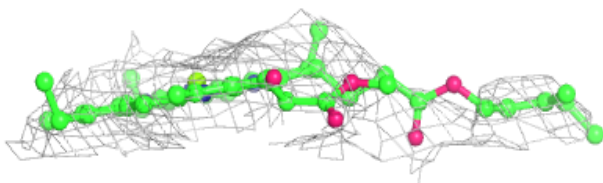
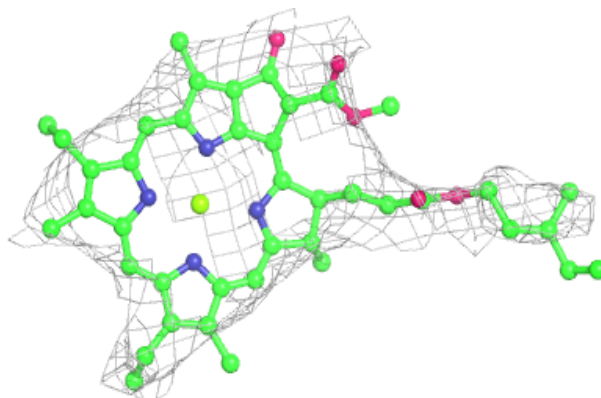


Electron density around CLA I 101:

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

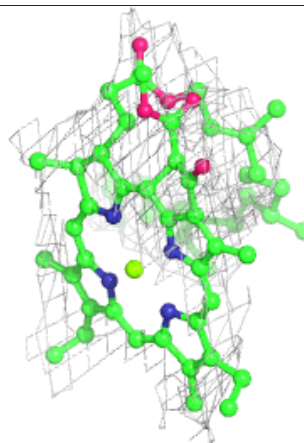
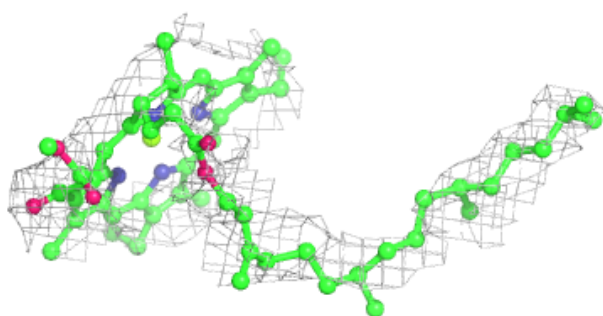
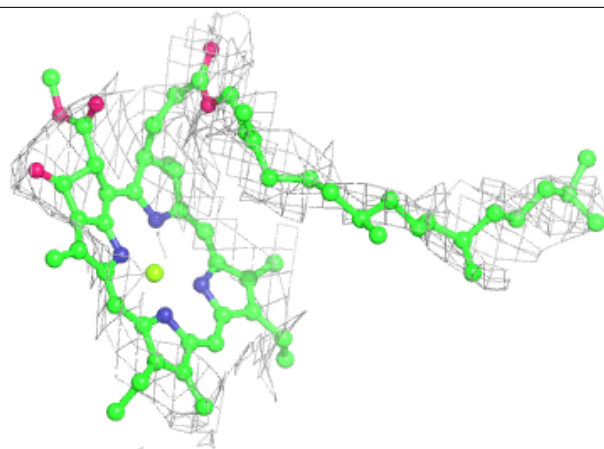
**Electron density around CLA A 837:**

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

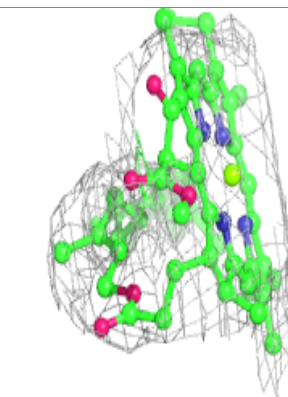
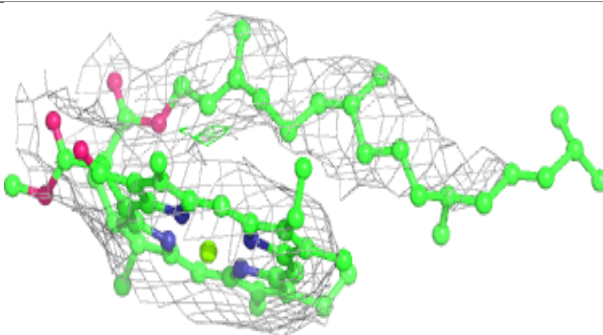
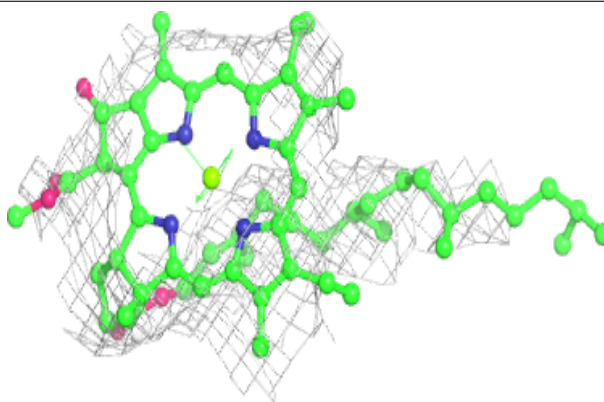


Electron density around CLA B 812:

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

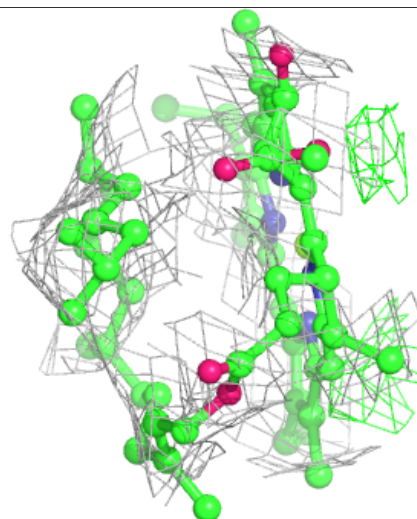
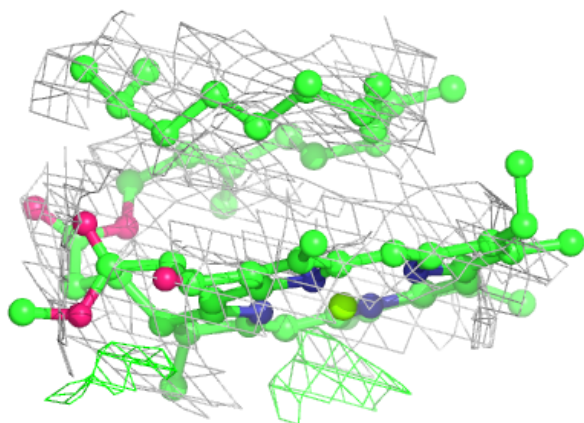
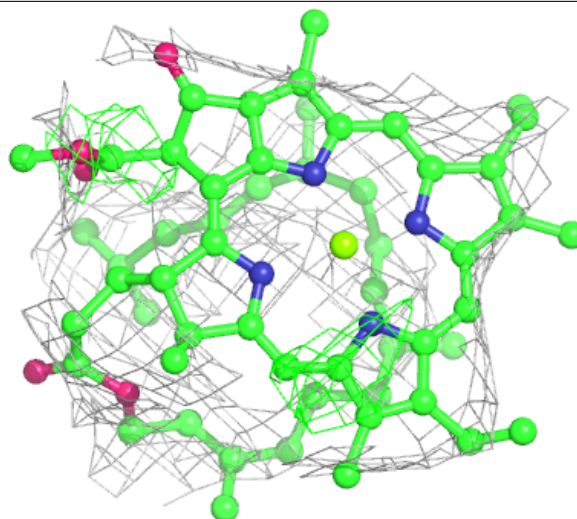
**Electron density around CLA A 838:**

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



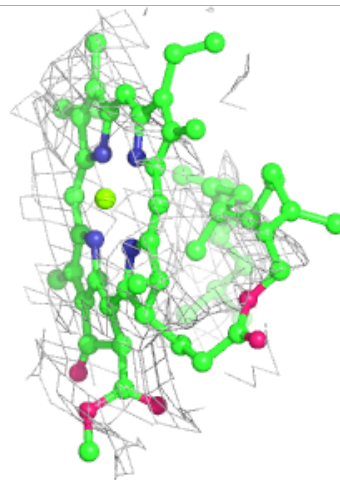
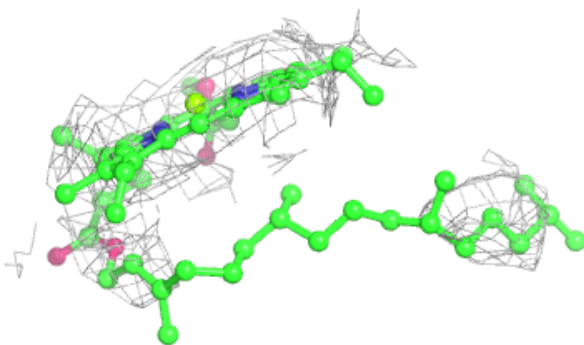
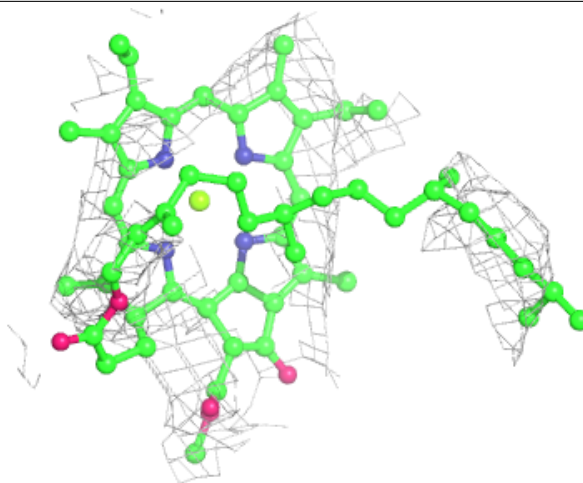
Electron density around CLA L 1002:

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



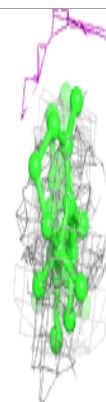
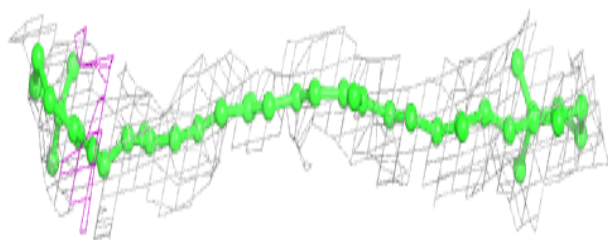
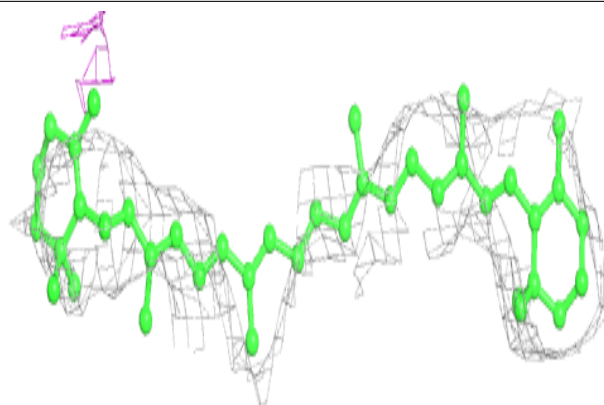
Electron density around CLA B 825:

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

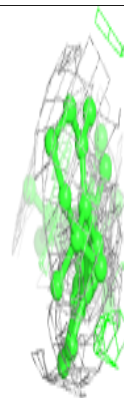
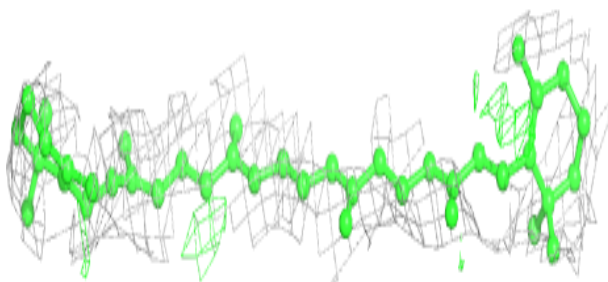
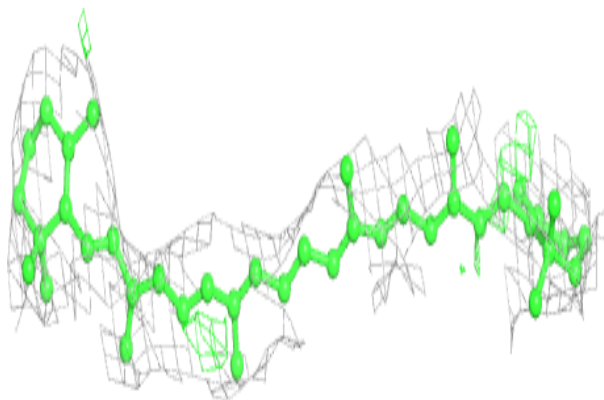


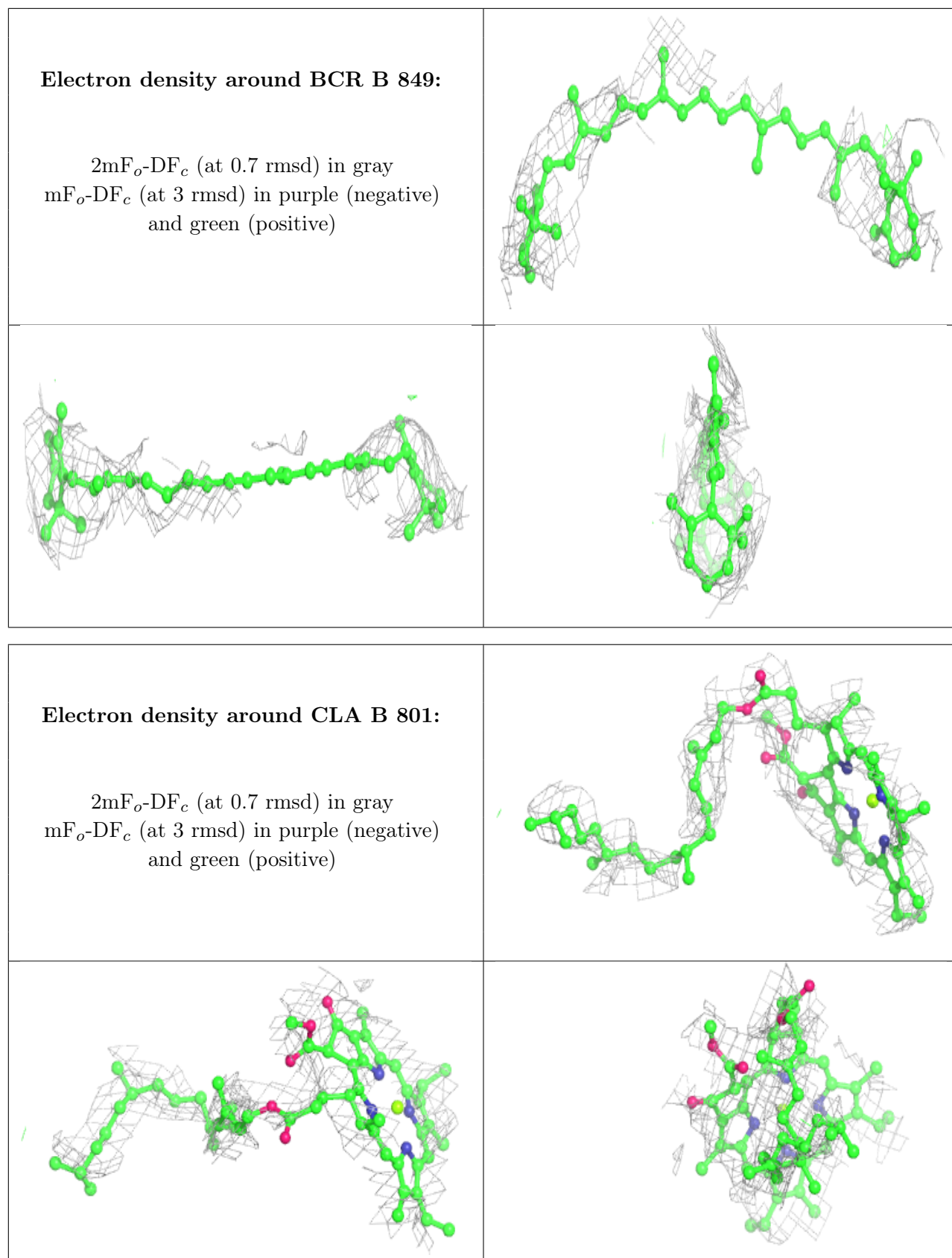
Electron density around BCR L 1005:

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

**Electron density around BCR L 1006:**

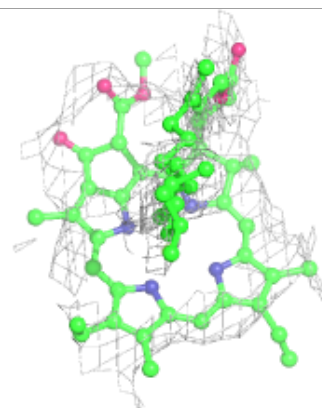
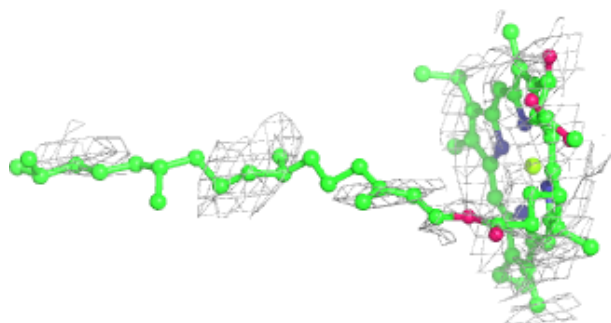
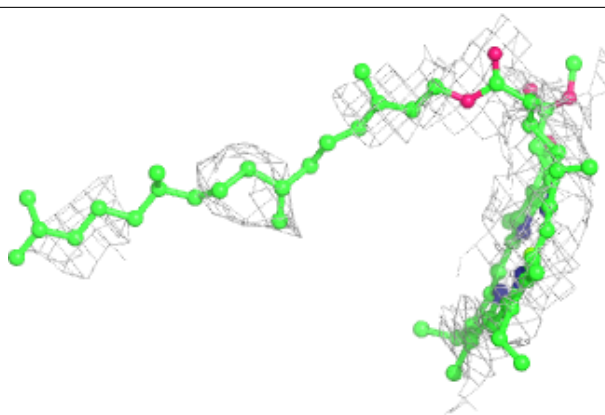
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



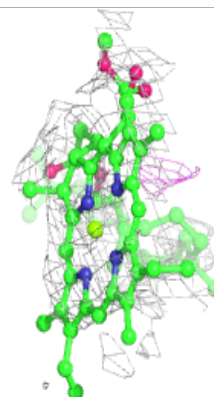
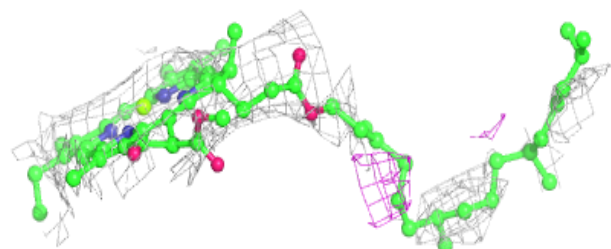
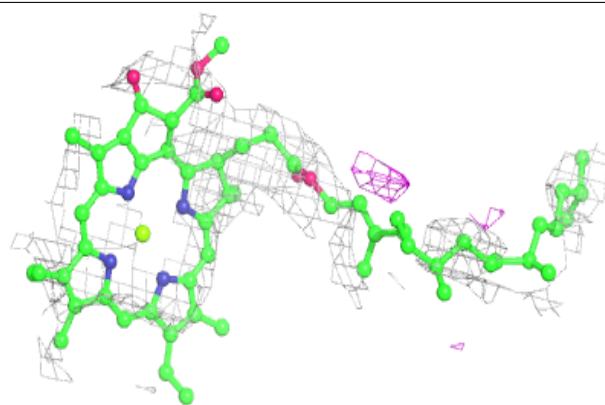


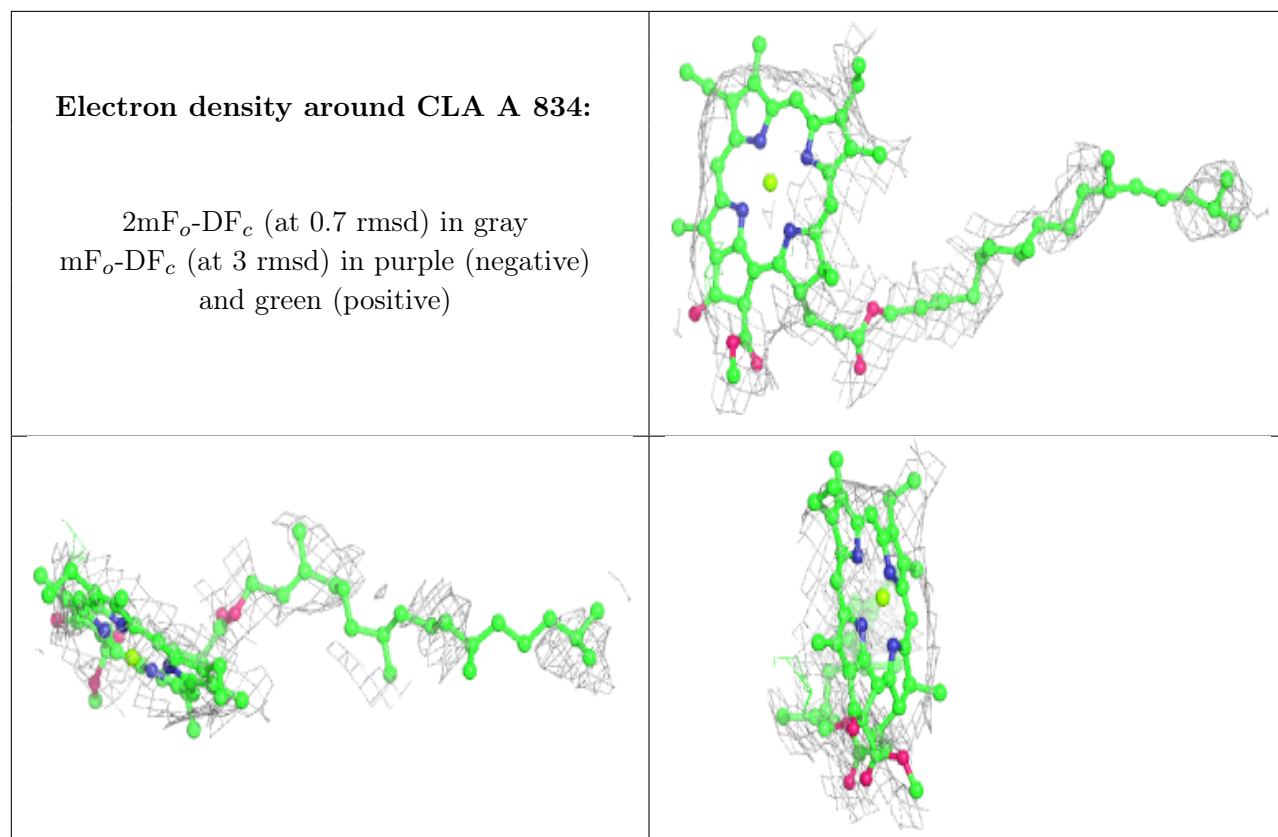
Electron density around CLA B 827:

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

**Electron density around CLA B 811:**

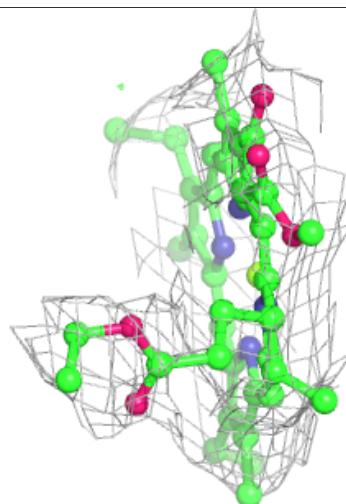
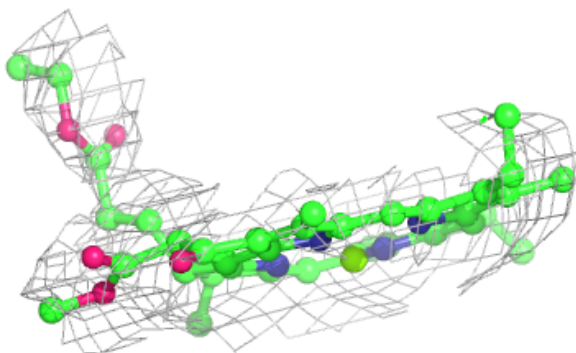
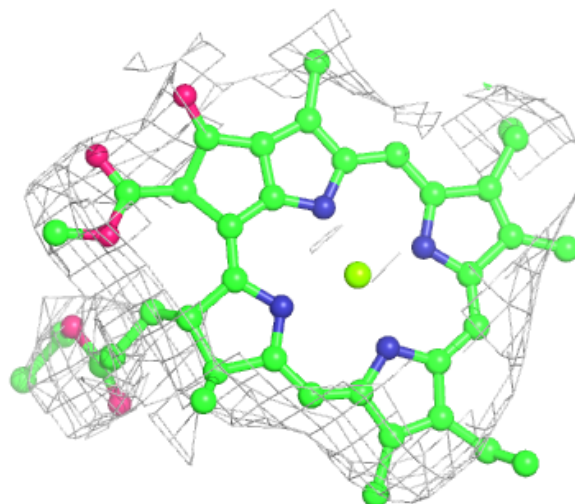
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





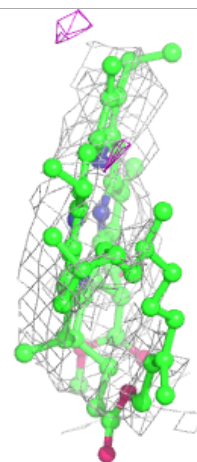
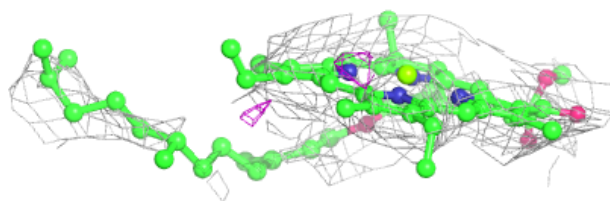
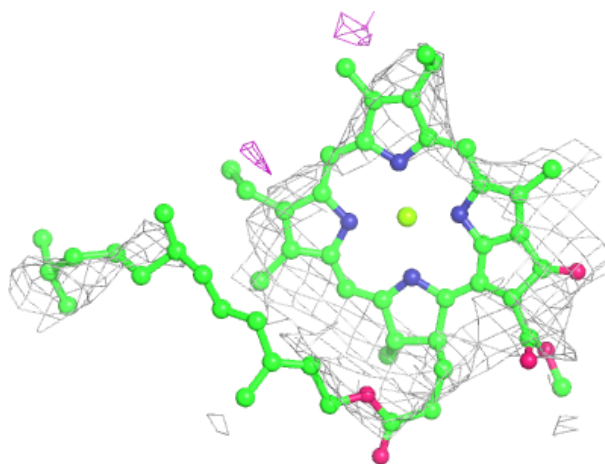
Electron density around CLA A 839:

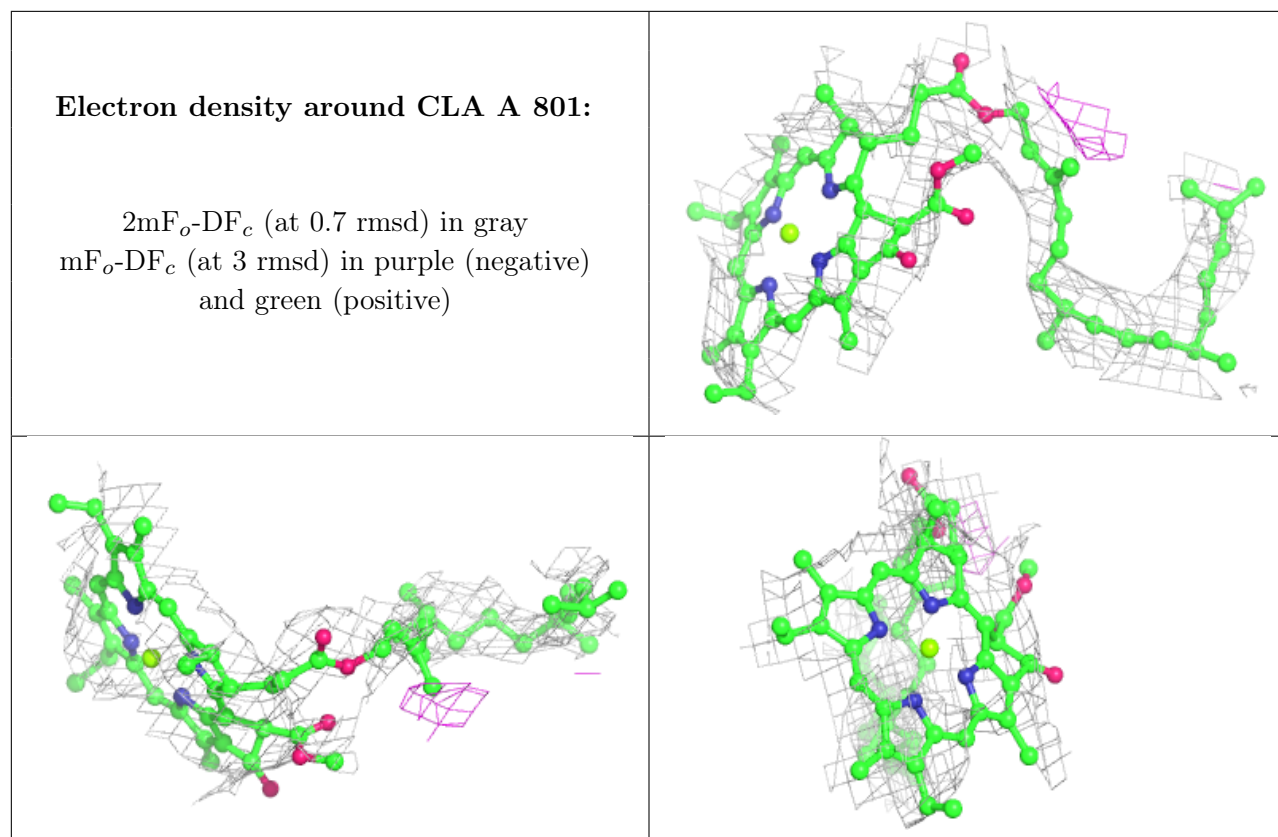
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 816:

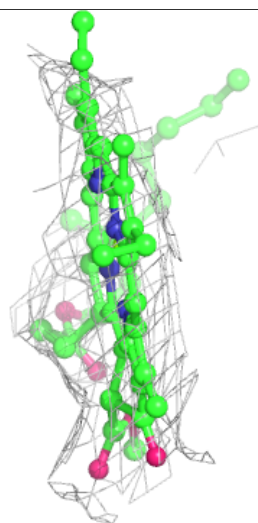
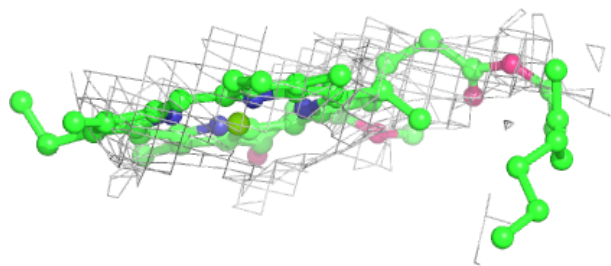
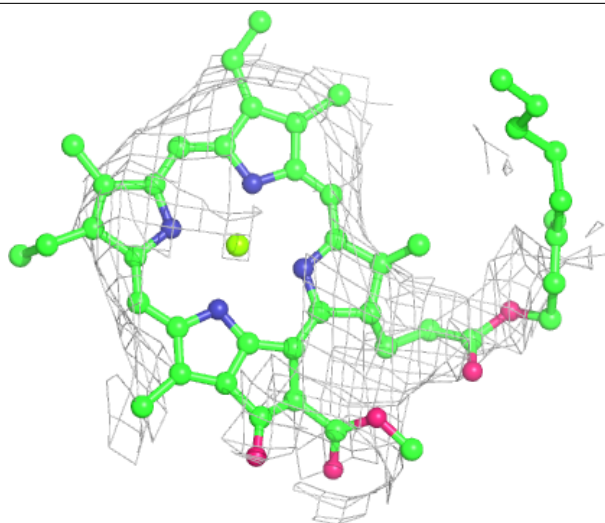
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





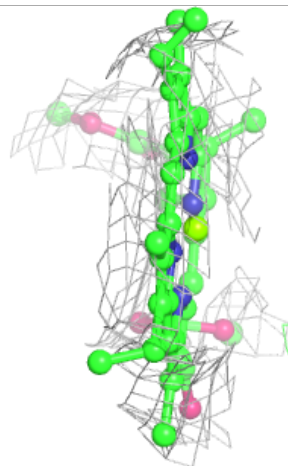
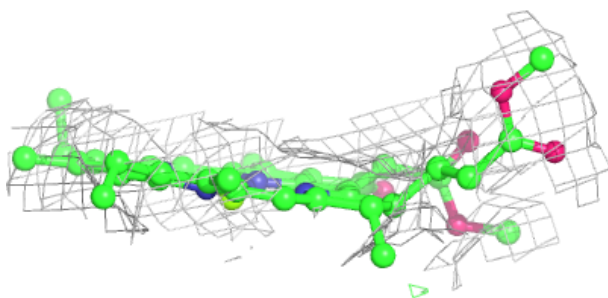
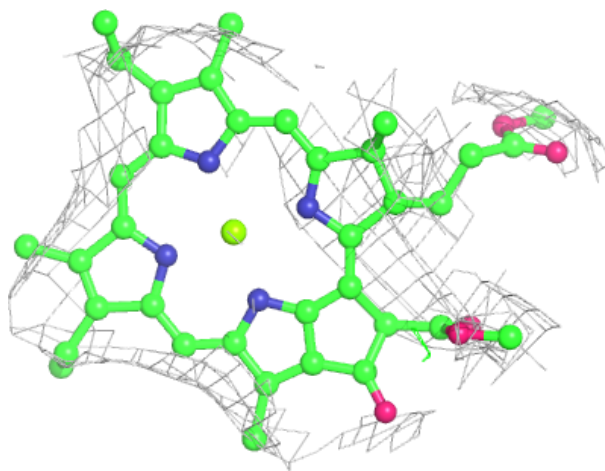
Electron density around CLA B 822:

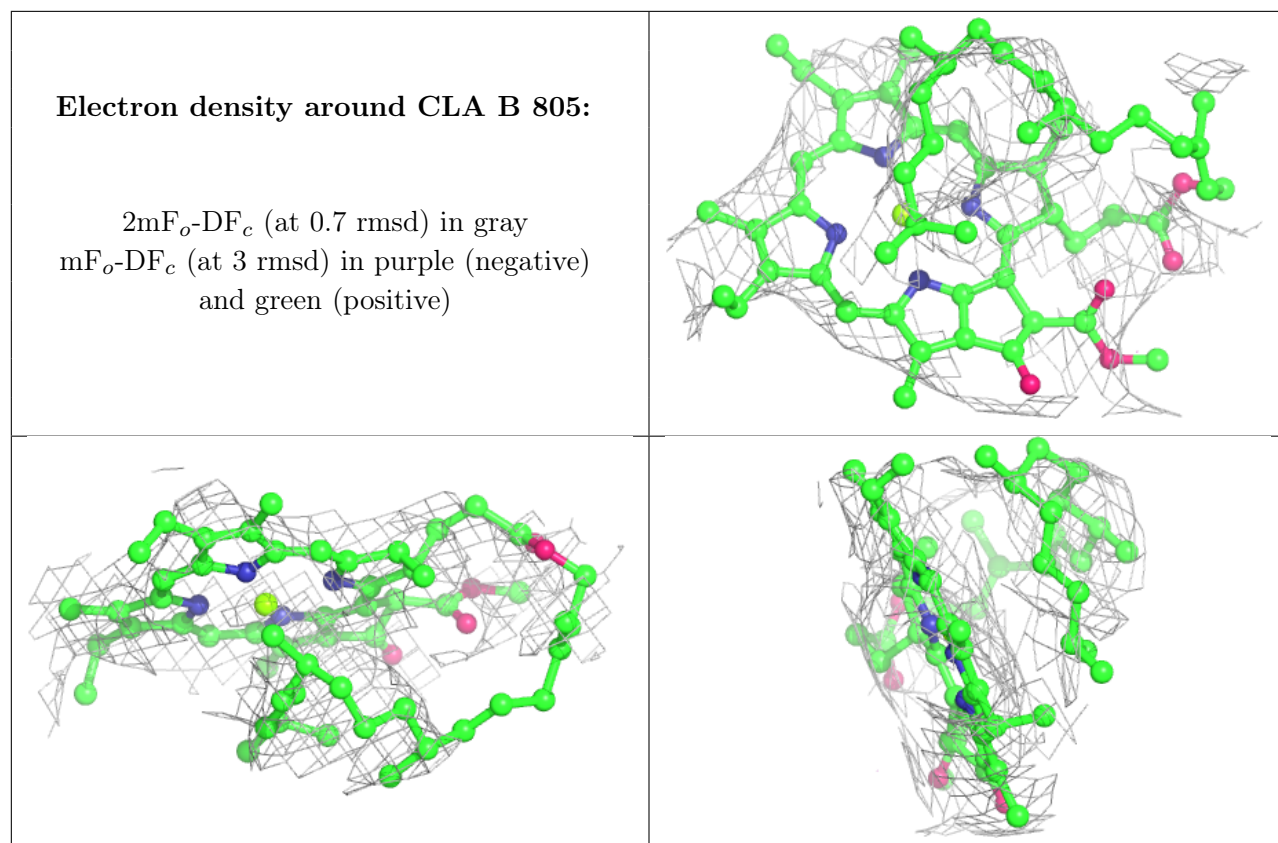
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA 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)





6.5 Other polymers [i](#)

There are no such residues in this entry.