



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 6, 2024 – 06:18 PM JST

PDB ID : 5GTI
Title : Native XFEL structure of photosystem II (two flash dataset)
Authors : Suga, M.; Shen, J.R.
Deposited on : 2016-08-20
Resolution : 2.50 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)
Xtriage (Phenix) : 1.13
EDS : 3.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.003 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

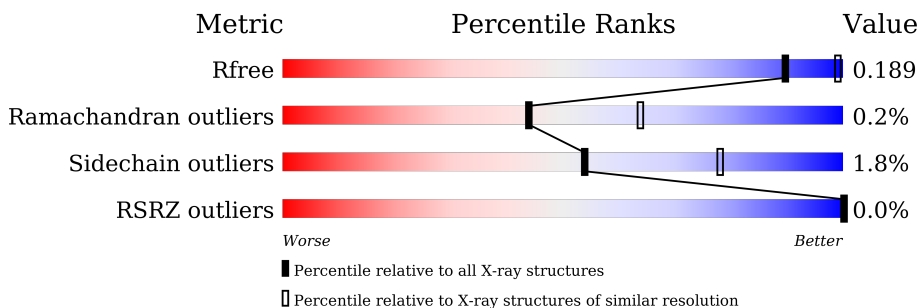
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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.



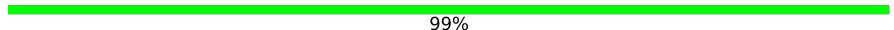









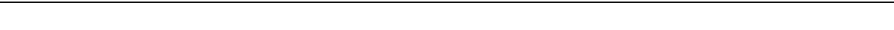

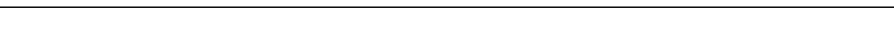
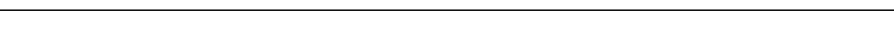
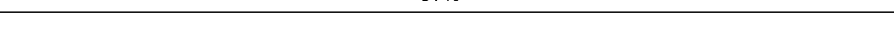
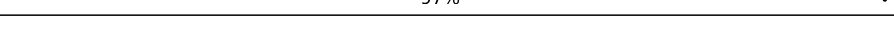


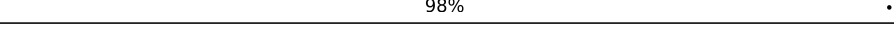
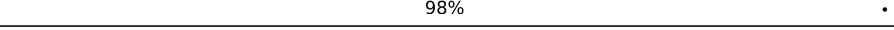




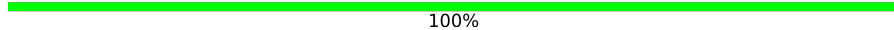
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	5504 (2.50-2.50)
Ramachandran outliers	177936	6191 (2.50-2.50)
Sidechain outliers	177891	6193 (2.50-2.50)
RSRZ outliers	164620	5504 (2.50-2.50)

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	344	97%
1	a	344	97%
2	B	505	98%
2	b	505	97%
3	C	455	98%
3	c	455	98%
4	D	342	100%

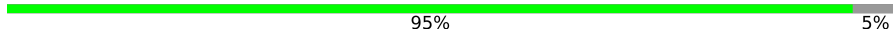
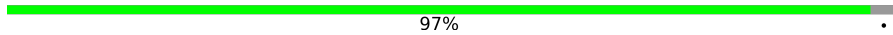
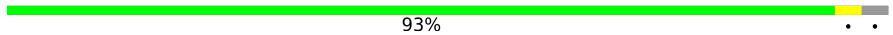
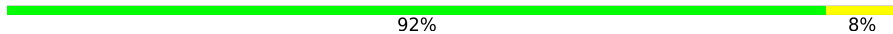
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Mol	Chain	Length	Quality of chain
4	d	342	 99%
5	E	84	 95%
5	e	84	 90% 6%
6	F	44	 77% 23%
6	f	44	 68% 30%
7	H	65	 2% 94% 5%
7	h	65	 97%
8	I	38	 95% 5%
8	i	38	 92% 5%
9	J	39	 92% 5%
9	j	39	 100%
10	K	37	 92% 8%
10	k	37	 92% 8%
11	L	37	 97%
11	l	37	 97%
12	M	36	 89% 6% 8%
12	m	36	 89% 6% 6%
13	O	244	 98%
13	o	244	 98%
14	T	32	 91% 6%
14	t	32	 88% 6% 6%
15	U	104	 91% 8%
15	u	104	 91% 7%
16	V	137	 100%
16	v	137	 100%

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Mol	Chain	Length	Quality of chain
17	X	40	 92% 5%
17	x	40	 95% 5%
18	Y	30	 97%
18	y	30	 93%
19	Z	62	 94% 6%
19	z	62	 92% 8%
20	R	34	 100%

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
23	CLA	A	404	X	-	-	-
23	CLA	A	407	X	-	-	-
23	CLA	B	602	X	-	-	-
23	CLA	B	603	X	-	-	-
23	CLA	B	604	X	-	-	-
23	CLA	B	605	X	-	-	-
23	CLA	B	606	X	-	-	-
23	CLA	B	607	X	-	-	-
23	CLA	B	608	X	-	-	-
23	CLA	B	609	X	-	-	-
23	CLA	B	610	X	-	-	-
23	CLA	B	611	X	-	-	-
23	CLA	B	612	X	-	-	-
23	CLA	B	613	X	-	-	-
23	CLA	B	614	X	-	-	-
23	CLA	B	615	X	-	-	-
23	CLA	B	616	X	-	-	-
23	CLA	B	617	X	-	-	-
23	CLA	C	502	X	-	-	-
23	CLA	C	503	X	-	-	-
23	CLA	C	504	X	-	-	-
23	CLA	C	505	X	-	-	-
23	CLA	C	506	X	-	-	-
23	CLA	C	507	X	-	-	-
23	CLA	C	508	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
23	CLA	C	509	X	-	-	-
23	CLA	C	510	X	-	-	-
23	CLA	C	511	X	-	-	-
23	CLA	C	512	X	-	-	-
23	CLA	C	513	X	-	-	-
23	CLA	D	401	X	-	-	-
23	CLA	D	404	X	-	-	-
23	CLA	D	405	X	-	-	-
23	CLA	a	404	X	-	-	-
23	CLA	a	405	X	-	-	-
23	CLA	a	409	X	-	-	-
23	CLA	b	601	X	-	-	-
23	CLA	b	602	X	-	-	-
23	CLA	b	603	X	-	-	-
23	CLA	b	604	X	-	-	-
23	CLA	b	605	X	-	-	-
23	CLA	b	606	X	-	-	-
23	CLA	b	607	X	-	-	-
23	CLA	b	609	X	-	-	-
23	CLA	b	610	X	-	-	-
23	CLA	b	611	X	-	-	-
23	CLA	b	612	X	-	-	-
23	CLA	b	613	X	-	-	-
23	CLA	b	614	X	-	-	-
23	CLA	b	615	X	-	-	-
23	CLA	b	616	X	-	-	-
23	CLA	c	501	X	-	-	-
23	CLA	c	502	X	-	-	-
23	CLA	c	503	X	-	-	-
23	CLA	c	504	X	-	-	-
23	CLA	c	505	X	-	-	-
23	CLA	c	506	X	-	-	-
23	CLA	c	507	X	-	-	-
23	CLA	c	508	X	-	-	-
23	CLA	c	509	X	-	-	-
23	CLA	c	510	X	-	-	-
23	CLA	c	511	X	-	-	-
23	CLA	c	512	X	-	-	-
23	CLA	d	402	X	-	-	-
23	CLA	d	403	X	-	-	-

2 Entry composition

There are 41 unique types of molecules in this entry. The entry contains 52752 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 II D1 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	334	Total 2620	C 1716	N 431	O 458	S 15	0	0	0
1	a	334	Total 2620	C 1716	N 431	O 458	S 15	0	0	0

- Molecule 2 is a protein called Photosystem II CP47 reaction center protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	504	Total 3969	C 2605	N 661	O 690	S 13	0	0	0
2	b	504	Total 3969	C 2605	N 661	O 690	S 13	0	0	0

- Molecule 3 is a protein called Photosystem II CP43 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	451	Total 3486	C 2281	N 584	O 608	S 13	0	0	0
3	c	455	Total 3519	C 2303	N 589	O 614	S 13	0	0	0

- Molecule 4 is a protein called Photosystem II D2 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	D	342	Total 2726	C 1805	N 445	O 464	S 12	0	0	0
4	d	341	Total 2717	C 1800	N 444	O 461	S 12	0	0	0

- Molecule 5 is a protein called Cytochrome b559 subunit alpha.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	E	81	Total	C	N	O	0	0	0
			662	432	107	123			
5	e	79	Total	C	N	O	0	0	0
			648	424	105	119			

- Molecule 6 is a protein called Cytochrome b559 subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	34	Total	C	N	O	S	0	0	0
			275	187	45	42	1			
6	f	31	Total	C	N	O	S	0	0	0
			250	170	42	37	1			

- Molecule 7 is a protein called Photosystem II reaction center protein H.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	H	64	Total	C	N	O	S	0	0	0
			506	339	81	84	2			
7	h	65	Total	C	N	O	S	0	0	0
			511	341	82	86	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	I	38	Total	C	N	O	S	0	0	0
			314	211	48	54	1			
8	i	38	Total	C	N	O	S	0	0	0
			314	211	48	54	1			

- Molecule 9 is a protein called Photosystem II reaction center protein J.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	J	38	Total	C	N	O	S	0	0	0
			272	182	42	47	1			
9	j	39	Total	C	N	O	S	0	0	0
			277	185	43	48	1			

- Molecule 10 is a protein called Photosystem II PsbK protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	K	37	Total	C	N	O	0	0	0
			293	204	43	46			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
10	k	37	293	204	43	46	0	0	0

- Molecule 11 is a protein called Photosystem II reaction center protein L.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
11	L	36	296	197	47	52	0	0	0
11	l	36	296	197	47	52	0	0	0

- Molecule 12 is a protein called Photosystem II PsbM protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	M	33	260	173	38	48	1	0	0	0
12	m	34	269	179	40	49	1	0	0	0

- Molecule 13 is a protein called Photosystem II manganese-stabilizing polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	O	243	1865	1165	315	381	4	0	0	0
13	o	243	1865	1165	315	381	4	0	0	0

- Molecule 14 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
14	T	30	258	181	36	39	2	0	0	0
14	t	30	258	181	36	39	2	0	0	0

- Molecule 15 is a protein called Photosystem II 12 kDa extrinsic protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
15	U	96	765	486	128	151	0	0	0
15	u	97	774	491	129	154	0	0	0

- Molecule 16 is a protein called Cytochrome c-550.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	V	137	Total	C	N	O	S	0	0	0
			1064	675	177	208	4			
16	v	137	Total	C	N	O	S	0	0	0
			1064	675	177	208	4			

- Molecule 17 is a protein called Photosystem II reaction center protein X.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	X	38	Total	C	N	O		0	0	0
			281	188	45	48				
17	x	38	Total	C	N	O		0	0	0
			281	188	45	48				

- Molecule 18 is a protein called Photosystem II reaction center protein Ycf12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	Y	29	Total	C	N	O	S	0	0	0
			215	142	37	33	3			
18	y	29	Total	C	N	O	S	0	0	0
			215	142	37	33	3			

- Molecule 19 is a protein called Photosystem II reaction center protein Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	Z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			
19	z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			

- Molecule 20 is a protein called Photosystem II protein Y.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
20	R	34	Total	C	N	O		0	0	0
			273	186	47	40				

- Molecule 21 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
21	A	1	Total	Fe	0	0
			1	1		

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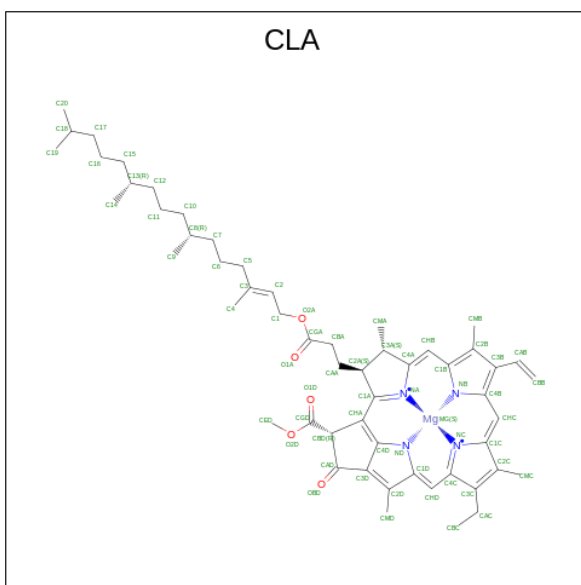
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
21	a	1	Total Fe 1 1	0	0

- Molecule 22 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
22	A	2	Total Cl 2 2	0	0
22	a	2	Total Cl 2 2	0	0

- Molecule 23 is CHLOROPHYLL A (three-letter code: CLA) (formula: C₅₅H₇₂MgN₄O₅).



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

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	D	1	65	55	1	4	5	0	0
23	D	1	65	55	1	4	5	0	0
23	D	1	65	55	1	4	5	0	0
23	a	1	65	55	1	4	5	0	0
23	a	1	65	55	1	4	5	0	0
23	a	1	65	55	1	4	5	0	0
23	a	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0
23	b	1	65	55	1	4	5	0	0

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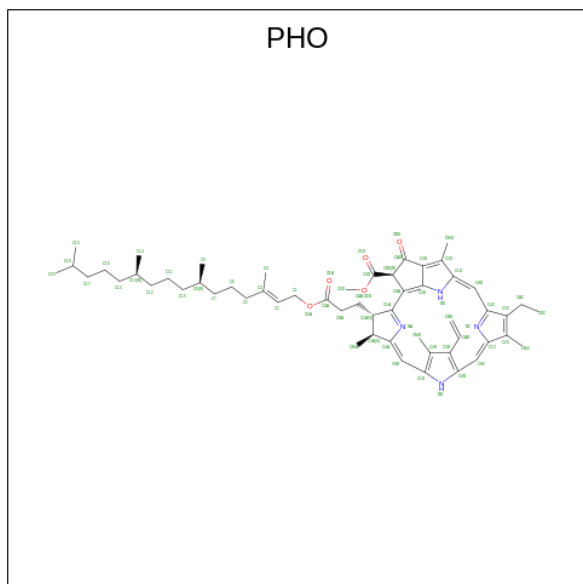
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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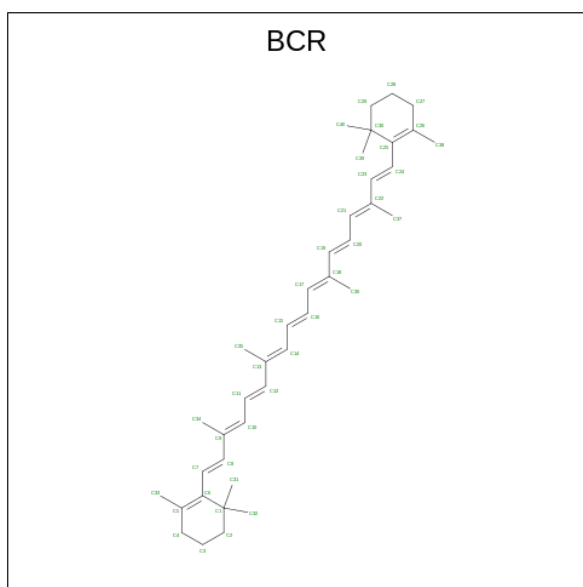
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
23	d	1	65	55	1	4	5	0	0

- Molecule 24 is PHEOPHYTIN A (three-letter code: PHO) (formula: $C_{55}H_{74}N_4O_5$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
24	A	1	64	55	4	5	0	0
24	D	1	64	55	4	5	0	0
24	a	1	64	55	4	5	0	0
24	a	1	64	55	4	5	0	0

- Molecule 25 is BETA-CAROTENE (three-letter code: BCR) (formula: $C_{40}H_{56}$).



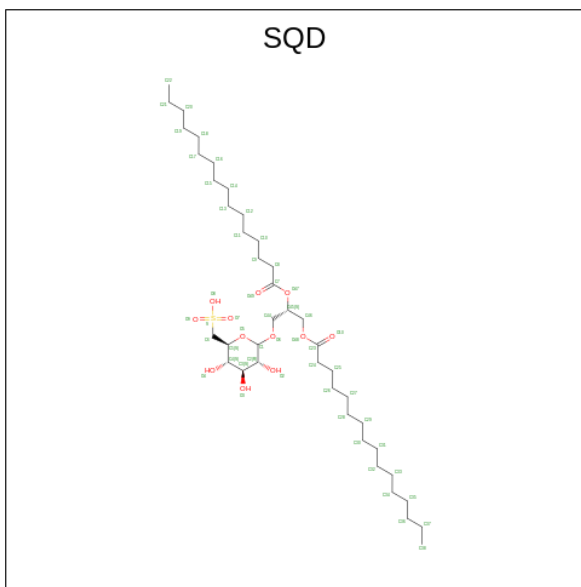
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
25	A	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	C	1	Total C 40 40	0	0
25	C	1	Total C 40 40	0	0
25	C	1	Total C 40 40	0	0
25	D	1	Total C 40 40	0	0
25	H	1	Total C 40 40	0	0
25	T	1	Total C 40 40	0	0
25	Y	1	Total C 40 40	0	0
25	a	1	Total C 40 40	0	0
25	b	1	Total C 40 40	0	0
25	b	1	Total C 40 40	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
25	b	1	Total C 40 40	0	0
25	c	1	Total C 40 40	0	0
25	c	1	Total C 40 40	0	0
25	d	1	Total C 40 40	0	0
25	h	1	Total C 40 40	0	0
25	k	1	Total C 40 40	0	0
25	t	1	Total C 40 40	0	0
25	y	1	Total C 40 40	0	0

- Molecule 26 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula: C₄₁H₇₈O₁₂S).



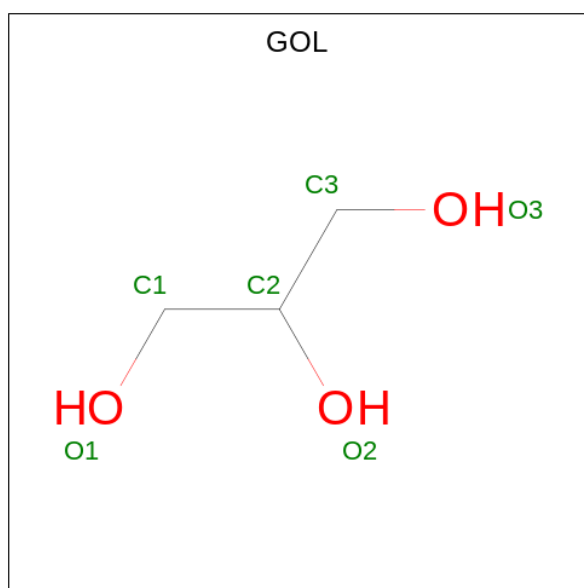
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	A	1	Total C O S 54 41 12 1	0	0
26	A	1	Total C O S 54 41 12 1	0	0
26	B	1	Total C O S 54 41 12 1	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	S		
26	D	1	Total 43	C 30	O 12	S 1	0	0
26	L	1	Total 54	C 41	O 12	S 1	0	0
26	a	1	Total 54	C 41	O 12	S 1	0	0
26	a	1	Total 54	C 41	O 12	S 1	0	0
26	f	1	Total 43	C 30	O 12	S 1	0	0

- Molecule 27 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



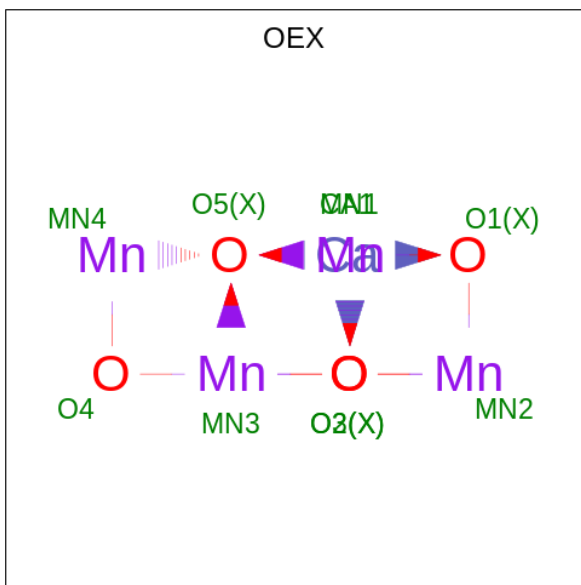
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
27	A	1	Total 6	C 3	O 3	0	0
27	B	1	Total 6	C 3	O 3	0	0
27	B	1	Total 6	C 3	O 3	0	0
27	C	1	Total 6	C 3	O 3	0	0
27	O	1	Total 6	C 3	O 3	0	0
27	a	1	Total 6	C 3	O 3	0	0

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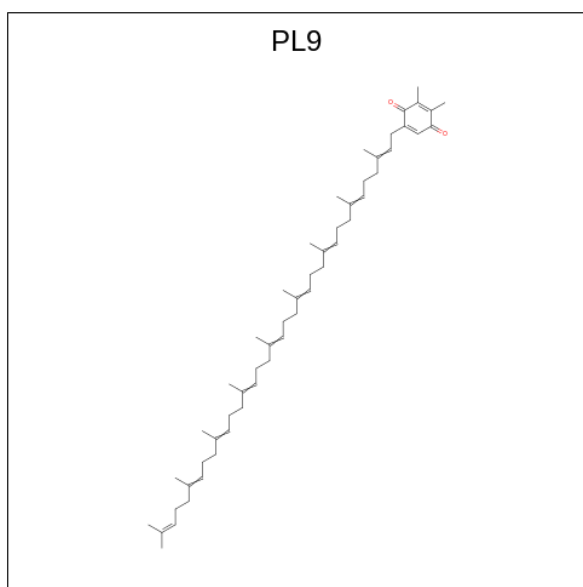
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
27	b	1	Total	C	O	0	0
			6	3	3		
27	d	1	Total	C	O	0	0
			6	3	3		

- Molecule 28 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula: CaMn_4O_5).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
28	A	1	Total	Ca	Mn	O	0	0
			10	1	4	5		
28	a	1	Total	Ca	Mn	O	0	0
			10	1	4	5		

- Molecule 29 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (three-letter code: PL9) (formula: $\text{C}_{53}\text{H}_{80}\text{O}_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
29	A	1	Total	C	O	0	0
			55	53	2		
29	D	1	Total	C	O	0	0
			55	53	2		
29	a	1	Total	C	O	0	0
			55	53	2		
29	d	1	Total	C	O	0	0
			55	53	2		

- Molecule 30 is UNKNOWN LIGAND (three-letter code: UNL) (formula:).

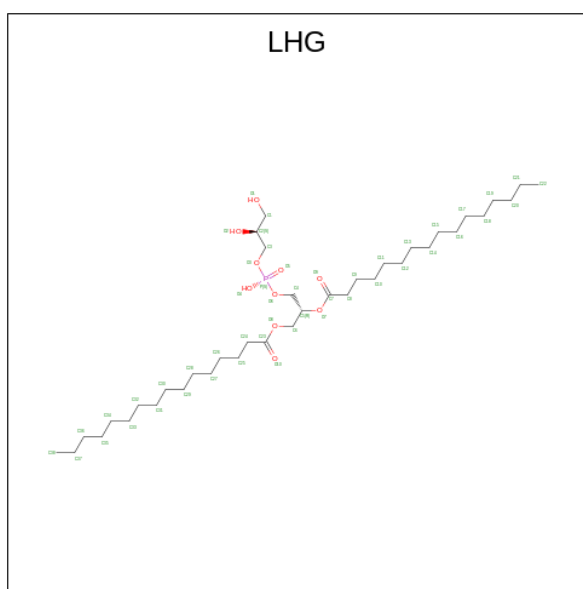
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
30	A	1	Total	C	O	0	0
			28	23	5		
30	B	1	Total	C	O	0	0
			33	28	5		
30	D	2	Total	C	O	0	0
			57	51	6		
30	I	1	Total	C	O	0	0
			40	35	5		
30	J	1	Total	C		0	0
			10	10			
30	K	1	Total	C	O	0	0
			34	29	5		
30	M	1	Total	C		0	0
			10	10			
30	X	1	Total	C	O	0	0
			18	16	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
30	a	1	Total	C	O	0	0
			30	25	5		
30	b	2	Total	C	O	0	0
			69	59	10		
30	c	1	Total	C	O	0	0
			32	27	5		
30	d	1	Total	C	O	0	0
			17	16	1		
30	i	1	Total	C	O	0	0
			40	35	5		
30	j	1	Total	C		0	0
			10	10			
30	m	1	Total	C		0	0
			10	10			
30	x	1	Total	C	O	0	0
			18	16	2		

- Molecule 31 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$).



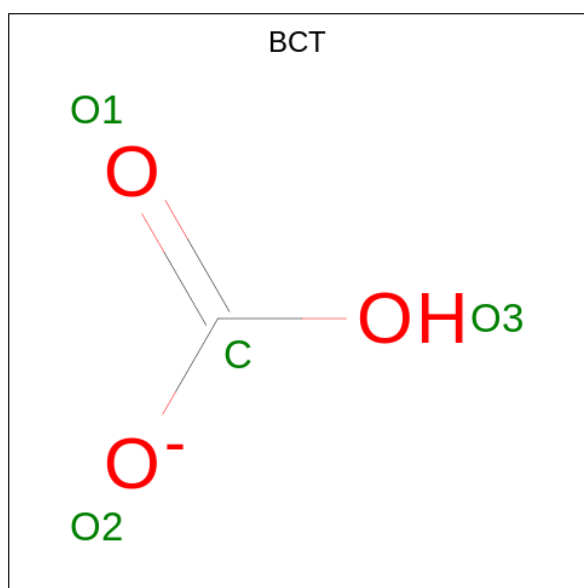
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
31	A	1	Total	C	O	P	0	0
			49	38	10	1		
31	D	1	Total	C	O	P	0	0
			49	38	10	1		
31	D	1	Total	C	O	P	0	0
			49	38	10	1		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	P		
31	E	1	Total 42	C 31	O 10	P 1	0	0
31	L	1	Total 49	C 38	O 10	P 1	0	0
31	b	1	Total 49	C 38	O 10	P 1	0	0
31	d	1	Total 49	C 38	O 10	P 1	0	0
31	d	1	Total 49	C 38	O 10	P 1	0	0
31	d	1	Total 49	C 38	O 10	P 1	0	0
31	e	1	Total 42	C 31	O 10	P 1	0	0

- Molecule 32 is BICARBONATE ION (three-letter code: BCT) (formula: CHO_3).

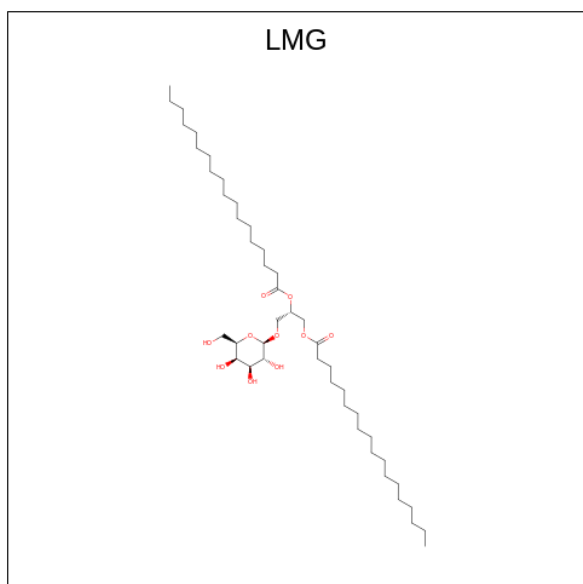


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
32	A	1	Total 4	C 1	O 3	0	0
32	a	1	Total 4	C 1	O 3	0	0

- Molecule 33 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
33	B	1	Total Ca 1 1	0	0
33	C	1	Total Ca 1 1	0	0
33	O	1	Total Ca 1 1	0	0
33	V	1	Total Ca 1 1	0	0
33	c	2	Total Ca 2 2	0	0
33	o	1	Total Ca 1 1	0	0

- Molecule 34 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).



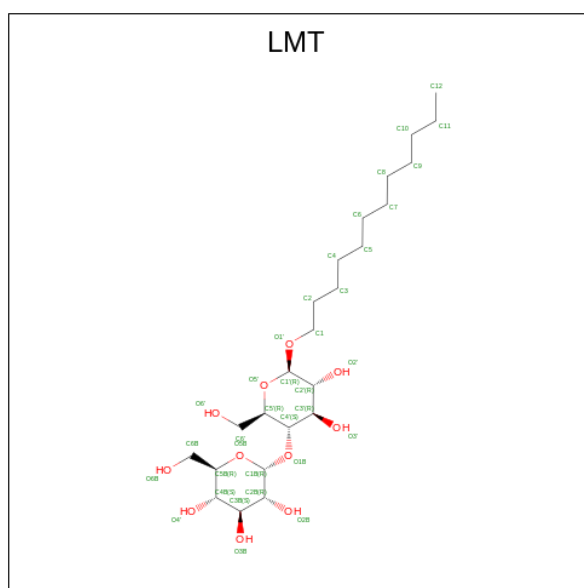
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
34	B	1	Total C O 51 41 10	0	0
34	C	1	Total C O 51 41 10	0	0
34	C	1	Total C O 51 41 10	0	0
34	C	1	Total C O 51 41 10	0	0
34	J	1	Total C O 51 41 10	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
34	Z	1	Total	C	O	0	0
			37	27	10		
34	a	1	Total	C	O	0	0
			51	41	10		
34	c	1	Total	C	O	0	0
			51	41	10		
34	c	1	Total	C	O	0	0
			51	41	10		
34	j	1	Total	C	O	0	0
			51	41	10		
34	m	1	Total	C	O	0	0
			51	41	10		
34	z	1	Total	C	O	0	0
			39	29	10		

- Molecule 35 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



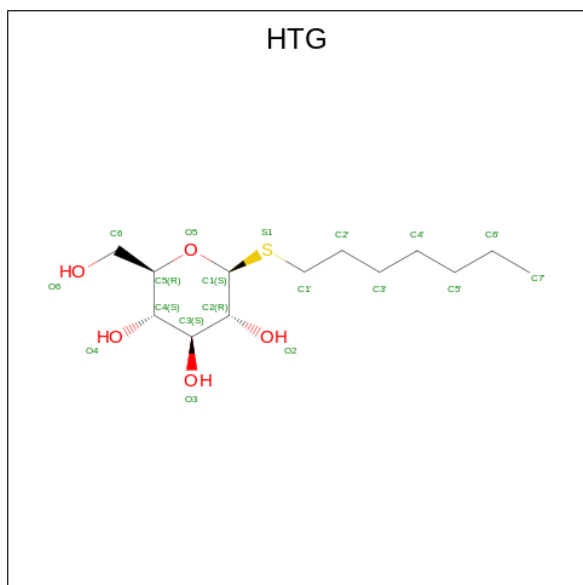
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
35	B	1	Total	C	O	0	0
			35	24	11		
35	B	1	Total	C	O	0	0
			25	19	6		
35	B	1	Total	C	O	0	0
			35	24	11		
35	B	1	Total	C	O	0	0
			26	19	7		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
35	C	1	Total	C	O	0	0
			35	24	11		
35	D	1	Total	C	O	0	0
			35	24	11		
35	E	1	Total	C	O	0	0
			35	24	11		
35	M	1	Total	C	O	0	0
			35	24	11		
35	M	1	Total	C	O	0	0
			35	24	11		
35	a	1	Total	C	O	0	0
			35	24	11		
35	b	1	Total	C	O	0	0
			25	19	6		
35	b	1	Total	C	O	0	0
			25	19	6		
35	e	1	Total	C	O	0	0
			35	24	11		
35	m	1	Total	C	O	0	0
			35	24	11		

- Molecule 36 is heptyl 1-thio-beta-D-glucopyranoside (three-letter code: HTG) (formula: $C_{13}H_{26}O_5S$).



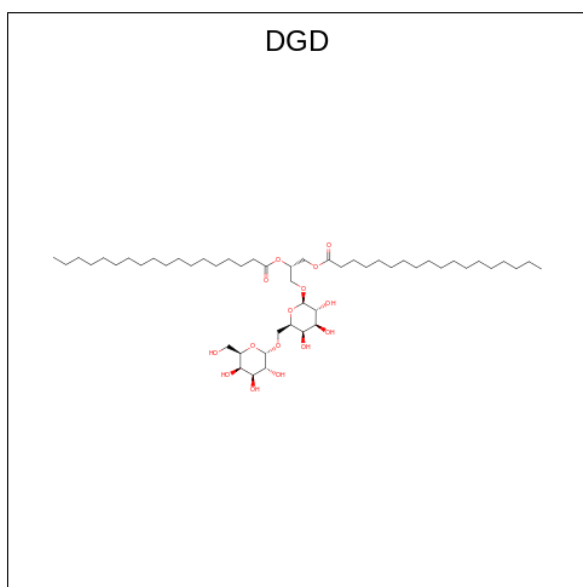
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
36	B	1	Total	C	O	S	0	0
			19	13	5	1		

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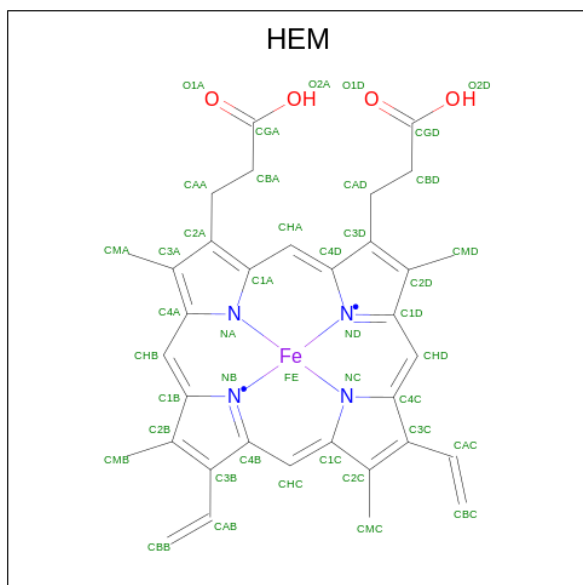
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	S		
36	B	1	19	13	5	1	0	0
36	B	1	19	13	5	1	0	0
36	B	1	19	13	5	1	0	0
36	B	1	19	13	5	1	0	0
36	C	1	19	13	5	1	0	0
36	C	1	9	8	1		0	0
36	D	1	16	10	5	1	0	0
36	V	1	11	6	5		0	0
36	b	1	19	13	5	1	0	0
36	b	1	19	13	5	1	0	0
36	b	1	19	13	5	1	0	0
36	b	1	19	13	5	1	0	0
36	b	1	19	13	5	1	0	0
36	c	1	19	13	5	1	0	0
36	c	1	19	13	5	1	0	0
36	h	1	16	10	5	1	0	0

- Molecule 37 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: C₅₁H₉₆O₁₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
37	C	1	Total	C	O	0	0
			62	47	15		
37	C	1	Total	C	O	0	0
			62	47	15		
37	C	1	Total	C	O	0	0
			62	47	15		
37	H	1	Total	C	O	0	0
			62	47	15		
37	c	1	Total	C	O	0	0
			62	47	15		
37	c	1	Total	C	O	0	0
			62	47	15		
37	c	1	Total	C	O	0	0
			62	47	15		
37	h	1	Total	C	O	0	0
			62	47	15		

- Molecule 38 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: $C_{34}H_{32}FeN_4O_4$).

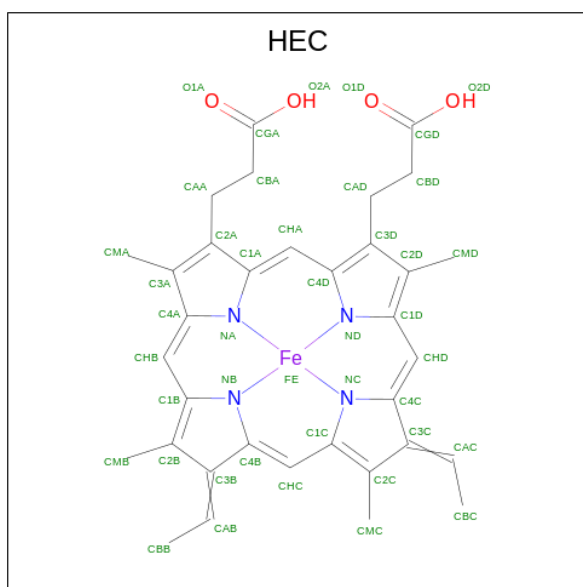


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
38	E	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
38	e	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

- Molecule 39 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
39	J	1	Total	Mg	0	0
			1	1		
39	j	1	Total	Mg	0	0
			1	1		

- Molecule 40 is HEME C (three-letter code: HEC) (formula: $C_{34}H_{34}FeN_4O_4$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
40	V	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
40	v	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

- Molecule 41 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
41	A	135	Total	O	0	0
			135	135		
41	B	195	Total	O	0	0
			195	195		
41	C	151	Total	O	0	0
			151	151		
41	D	118	Total	O	0	0
			118	118		
41	E	25	Total	O	0	0
			25	25		
41	F	5	Total	O	0	0
			5	5		
41	H	22	Total	O	0	0
			22	22		
41	I	6	Total	O	0	0
			6	6		
41	J	4	Total	O	0	0
			4	4		
41	K	6	Total	O	0	0
			6	6		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
41	L	6	Total O 6 6	0	0
41	M	15	Total O 15 15	0	0
41	O	105	Total O 105 105	0	0
41	T	13	Total O 13 13	0	0
41	U	51	Total O 51 51	0	0
41	V	81	Total O 81 81	0	0
41	X	4	Total O 4 4	0	0
41	Y	1	Total O 1 1	0	0
41	Z	1	Total O 1 1	0	0
41	R	1	Total O 1 1	0	0
41	a	132	Total O 132 132	0	0
41	b	206	Total O 206 206	0	0
41	c	153	Total O 153 153	0	0
41	d	115	Total O 115 115	0	0
41	e	16	Total O 16 16	0	0
41	f	5	Total O 5 5	0	0
41	h	27	Total O 27 27	0	0
41	i	3	Total O 3 3	0	0
41	j	3	Total O 3 3	0	0
41	k	6	Total O 6 6	0	0
41	l	9	Total O 9 9	0	0

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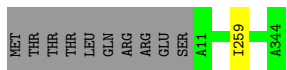
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
41	m	18	Total O 18 18	0	0
41	o	115	Total O 115 115	0	0
41	t	9	Total O 9 9	0	0
41	u	62	Total O 62 62	0	0
41	v	78	Total O 78 78	0	0
41	x	8	Total O 8 8	0	0
41	z	1	Total O 1 1	0	0

3 Residue-property plots [i](#)

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

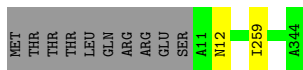
- Molecule 1: Photosystem II D1 protein

Chain A:  97%



- Molecule 1: Photosystem II D1 protein

Chain a:  97%



- Molecule 2: Photosystem II CP47 reaction center protein

Chain B:  98%



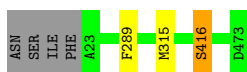
- Molecule 2: Photosystem II CP47 reaction center protein

Chain b:  97%



- Molecule 3: Photosystem II CP43 protein

Chain C:  98%

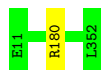


- Molecule 3: Photosystem II CP43 protein

Chain c:  98%



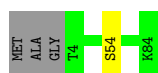
- Molecule 4: Photosystem II D2 protein



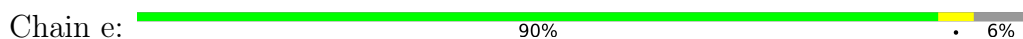
- Molecule 4: Photosystem II D2 protein



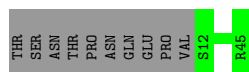
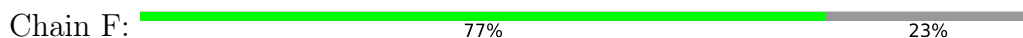
- Molecule 5: Cytochrome b559 subunit alpha



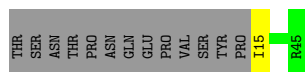
- Molecule 5: Cytochrome b559 subunit alpha



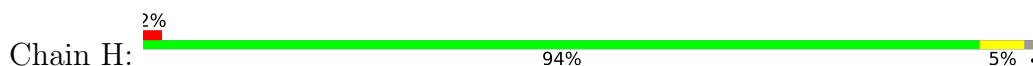
- Molecule 6: Cytochrome b559 subunit beta



- Molecule 6: Cytochrome b559 subunit beta



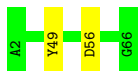
- Molecule 7: Photosystem II reaction center protein H





- Molecule 7: Photosystem II reaction center protein H

Chain h: 97%



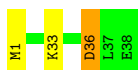
- Molecule 8: Photosystem II reaction center protein I

Chain I: 95%



- Molecule 8: Photosystem II reaction center protein I

Chain i: 92%



- Molecule 9: Photosystem II reaction center protein J

Chain J: 92%



- Molecule 9: Photosystem II reaction center protein J

Chain j: 100%

There are no outlier residues recorded for this chain.

- Molecule 10: Photosystem II PsbK protein

Chain K: 92%



- Molecule 10: Photosystem II PsbK protein

Chain k: 92%



- Molecule 11: Photosystem II reaction center protein L

Chain L: 97%



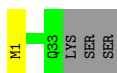
- Molecule 11: Photosystem II reaction center protein L

Chain l: 97%



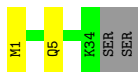
- Molecule 12: Photosystem II PsbM protein

Chain M: 89% 8%



- Molecule 12: Photosystem II PsbM protein

Chain m: 89% 6% 6%



- Molecule 13: Photosystem II manganese-stabilizing polypeptide

Chain O: 98%



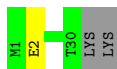
- Molecule 13: Photosystem II manganese-stabilizing polypeptide

Chain o: 98%



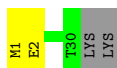
- Molecule 14: Photosystem II reaction center protein T

Chain T: 91% 6%



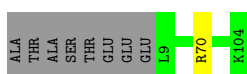
- Molecule 14: Photosystem II reaction center protein T

Chain t: 88% 6% 6%



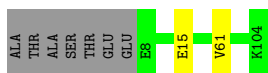
- Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain U: 91% 8%



- Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain u: 91% 7%



- Molecule 16: Cytochrome c-550

Chain V: 100%

There are no outlier residues recorded for this chain.

- Molecule 16: Cytochrome c-550

Chain v: 100%

There are no outlier residues recorded for this chain.

- Molecule 17: Photosystem II reaction center protein X

Chain X: 92% 5%



- Molecule 17: Photosystem II reaction center protein X

Chain x: 95% 5%



- Molecule 18: Photosystem II reaction center protein Ycf12

Chain Y:  97%



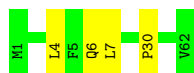
- Molecule 18: Photosystem II reaction center protein Ycf12

Chain y:  93%



- Molecule 19: Photosystem II reaction center protein Z

Chain Z:  94%



- Molecule 19: Photosystem II reaction center protein Z

Chain z:  92%



- Molecule 20: Photosystem II protein Y

Chain R:  100%

There are no outlier residues recorded for this chain.

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	126.52Å 231.23Å 287.46Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.98 – 2.50 19.98 – 2.50	Depositor EDS
% Data completeness (in resolution range)	100.0 (19.98-2.50) 99.7 (19.98-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.56 (at 2.51Å)	Xtrriage
Refinement program	PHENIX 1.8_1069	Depositor
R, R_{free}	0.139 , 0.187 0.142 , 0.189	Depositor DCC
R_{free} test set	14585 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	71.4	Xtrriage
Anisotropy	0.612	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 66.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	52752	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.74% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PHO, OEX, FME, UNL, CA, LHG, BCR, BCT, SQD, DGD, PL9, FE2, HEC, LMT, LMG, GOL, MG, CL, HTG, CLA, HEM

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	0.44	0/2705	0.56	0/3689
1	a	0.43	0/2705	0.54	0/3689
2	B	0.42	0/4109	0.54	0/5600
2	b	0.41	0/4109	0.54	0/5600
3	C	0.39	0/3599	0.51	0/4900
3	c	0.39	0/3633	0.53	0/4946
4	D	0.43	0/2821	0.54	0/3844
4	d	0.43	0/2812	0.54	0/3832
5	E	0.35	0/681	0.53	0/928
5	e	0.37	0/667	0.49	0/908
6	F	0.34	0/284	0.48	0/387
6	f	0.40	0/257	0.49	0/349
7	H	0.36	0/519	0.53	0/708
7	h	0.35	0/524	0.49	0/713
8	I	0.37	0/311	0.51	0/419
8	i	0.36	0/311	0.54	0/419
9	J	0.36	0/278	0.46	0/376
9	j	0.35	0/283	0.47	0/383
10	K	0.35	0/303	0.53	0/416
10	k	0.32	0/303	0.51	0/416
11	L	0.42	0/303	0.51	0/412
11	l	0.38	0/303	0.53	0/412
12	M	0.44	0/253	0.58	0/346
12	m	0.42	0/262	0.58	0/357
13	O	0.38	0/1896	0.58	0/2571
13	o	0.39	0/1896	0.58	0/2571
14	T	0.54	0/257	0.56	0/349
14	t	0.52	0/257	0.52	0/349
15	U	0.40	0/776	0.57	0/1052
15	u	0.41	0/785	0.57	0/1064
16	V	0.37	0/1085	0.52	0/1473

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	v	0.37	0/1085	0.53	0/1473
17	X	0.33	0/284	0.49	0/384
17	x	0.31	0/284	0.46	0/384
18	Y	0.30	0/216	0.44	0/289
18	y	0.31	0/216	0.50	0/289
19	Z	0.32	0/490	0.46	0/669
19	z	0.32	0/490	0.43	0/669
20	R	0.27	0/279	0.43	0/383
All	All	0.40	0/42631	0.53	0/58018

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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	332/344 (96%)	326 (98%)	5 (2%)	1 (0%)	37	56
1	a	332/344 (96%)	327 (98%)	4 (1%)	1 (0%)	37	56
2	B	502/505 (99%)	498 (99%)	4 (1%)	0	100	100
2	b	502/505 (99%)	494 (98%)	8 (2%)	0	100	100
3	C	449/455 (99%)	440 (98%)	8 (2%)	1 (0%)	44	64
3	c	453/455 (100%)	442 (98%)	10 (2%)	1 (0%)	44	64

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	D	340/342 (99%)	330 (97%)	10 (3%)	0	100	100
4	d	339/342 (99%)	333 (98%)	6 (2%)	0	100	100
5	E	79/84 (94%)	78 (99%)	1 (1%)	0	100	100
5	e	77/84 (92%)	76 (99%)	1 (1%)	0	100	100
6	F	32/44 (73%)	32 (100%)	0	0	100	100
6	f	29/44 (66%)	29 (100%)	0	0	100	100
7	H	62/65 (95%)	60 (97%)	2 (3%)	0	100	100
7	h	63/65 (97%)	59 (94%)	4 (6%)	0	100	100
8	I	36/38 (95%)	33 (92%)	3 (8%)	0	100	100
8	i	36/38 (95%)	31 (86%)	4 (11%)	1 (3%)	4	6
9	J	36/39 (92%)	36 (100%)	0	0	100	100
9	j	37/39 (95%)	36 (97%)	1 (3%)	0	100	100
10	K	35/37 (95%)	35 (100%)	0	0	100	100
10	k	35/37 (95%)	35 (100%)	0	0	100	100
11	L	34/37 (92%)	34 (100%)	0	0	100	100
11	l	34/37 (92%)	34 (100%)	0	0	100	100
12	M	31/36 (86%)	31 (100%)	0	0	100	100
12	m	32/36 (89%)	31 (97%)	1 (3%)	0	100	100
13	O	241/244 (99%)	232 (96%)	9 (4%)	0	100	100
13	o	241/244 (99%)	232 (96%)	9 (4%)	0	100	100
14	T	28/32 (88%)	28 (100%)	0	0	100	100
14	t	28/32 (88%)	28 (100%)	0	0	100	100
15	U	94/104 (90%)	89 (95%)	5 (5%)	0	100	100
15	u	95/104 (91%)	91 (96%)	4 (4%)	0	100	100
16	V	135/137 (98%)	132 (98%)	3 (2%)	0	100	100
16	v	135/137 (98%)	132 (98%)	3 (2%)	0	100	100
17	X	36/40 (90%)	36 (100%)	0	0	100	100
17	x	36/40 (90%)	36 (100%)	0	0	100	100
18	Y	27/30 (90%)	26 (96%)	1 (4%)	0	100	100
18	y	27/30 (90%)	25 (93%)	1 (4%)	1 (4%)	2	3
19	Z	60/62 (97%)	59 (98%)	0	1 (2%)	7	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	z	60/62 (97%)	59 (98%)	0	1 (2%)	7	14
20	R	32/34 (94%)	32 (100%)	0	0	100	100
All	All	5212/5384 (97%)	5097 (98%)	107 (2%)	8 (0%)	44	64

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
8	i	36	ASP
3	C	416	SER
3	c	416	SER
19	Z	30	PRO
1	a	259	ILE
19	z	30	PRO
18	y	45	ASN
1	A	259	ILE

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	269/279 (96%)	269 (100%)	0	100	100
1	a	269/279 (96%)	268 (100%)	1 (0%)	89	96
2	B	402/403 (100%)	395 (98%)	7 (2%)	56	79
2	b	402/403 (100%)	390 (97%)	12 (3%)	36	63
3	C	352/356 (99%)	349 (99%)	3 (1%)	75	90
3	c	356/356 (100%)	348 (98%)	8 (2%)	47	73
4	D	277/277 (100%)	276 (100%)	1 (0%)	89	96
4	d	276/277 (100%)	275 (100%)	1 (0%)	89	96
5	E	72/73 (99%)	71 (99%)	1 (1%)	62	83
5	e	70/73 (96%)	67 (96%)	3 (4%)	25	48
6	F	28/38 (74%)	28 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	f	25/38 (66%)	24 (96%)	1 (4%)	27	51
7	H	54/54 (100%)	51 (94%)	3 (6%)	17	36
7	h	54/54 (100%)	52 (96%)	2 (4%)	29	55
8	I	34/34 (100%)	33 (97%)	1 (3%)	37	64
8	i	34/34 (100%)	32 (94%)	2 (6%)	16	33
9	J	26/27 (96%)	24 (92%)	2 (8%)	10	22
9	j	26/27 (96%)	26 (100%)	0	100	100
10	K	30/30 (100%)	27 (90%)	3 (10%)	6	13
10	k	30/30 (100%)	27 (90%)	3 (10%)	6	13
11	L	34/35 (97%)	34 (100%)	0	100	100
11	l	34/35 (97%)	34 (100%)	0	100	100
12	M	29/32 (91%)	29 (100%)	0	100	100
12	m	30/32 (94%)	29 (97%)	1 (3%)	33	59
13	O	206/207 (100%)	201 (98%)	5 (2%)	44	70
13	o	206/207 (100%)	203 (98%)	3 (2%)	60	82
14	T	26/28 (93%)	25 (96%)	1 (4%)	28	53
14	t	26/28 (93%)	25 (96%)	1 (4%)	28	53
15	U	83/89 (93%)	82 (99%)	1 (1%)	67	86
15	u	84/89 (94%)	82 (98%)	2 (2%)	44	70
16	V	117/117 (100%)	117 (100%)	0	100	100
16	v	117/117 (100%)	117 (100%)	0	100	100
17	X	31/33 (94%)	30 (97%)	1 (3%)	34	60
17	x	31/33 (94%)	31 (100%)	0	100	100
18	Y	22/23 (96%)	22 (100%)	0	100	100
18	y	22/23 (96%)	22 (100%)	0	100	100
19	Z	52/52 (100%)	49 (94%)	3 (6%)	17	34
19	z	52/52 (100%)	48 (92%)	4 (8%)	10	22
20	R	29/29 (100%)	29 (100%)	0	100	100
All	All	4317/4403 (98%)	4241 (98%)	76 (2%)	54	78

All (76) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	53	ASN
2	B	161	LEU
2	B	223	GLN
2	B	362	PHE
2	B	472	ARG
2	B	495	PHE
2	B	505	ARG
3	C	289	PHE
3	C	315	MET
3	C	416	SER
4	D	180	ARG
5	E	54	SER
7	H	12	ARG
7	H	49	TYR
7	H	56	ASP
8	I	33	LYS
9	J	3	GLU
9	J	6	ARG
10	K	10	LYS
10	K	17	ILE
10	K	19	ASP
13	O	24	ASP
13	O	118	LEU
13	O	135	SER
13	O	219	GLN
13	O	234	LYS
14	T	2	GLU
15	U	70	ARG
17	X	2	THR
19	Z	4	LEU
19	Z	6	GLN
19	Z	7	LEU
1	a	12	ASN
2	b	53	ASN
2	b	121	GLU
2	b	128	THR
2	b	161	LEU
2	b	223	GLN
2	b	362	PHE
2	b	472	ARG
2	b	477	ASP
2	b	485	GLU
2	b	486	LEU

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Mol	Chain	Res	Type
2	b	491	VAL
2	b	505	ARG
3	c	19	ASN
3	c	24	THR
3	c	240	ILE
3	c	279	LEU
3	c	289	PHE
3	c	315	MET
3	c	355	THR
3	c	416	SER
4	d	180	ARG
5	e	16	SER
5	e	54	SER
5	e	74	GLN
6	f	15	ILE
7	h	49	TYR
7	h	56	ASP
8	i	33	LYS
8	i	36	ASP
10	k	10	LYS
10	k	17	ILE
10	k	19	ASP
12	m	5	GLN
13	o	37	THR
13	o	118	LEU
13	o	132	ASN
14	t	2	GLU
15	u	15	GLU
15	u	61	VAL
19	z	4	LEU
19	z	6	GLN
19	z	7	LEU
19	z	32	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (25) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	53	ASN
2	B	331	ASN
3	C	201	ASN
4	D	61	HIS
4	D	83	ASN

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Mol	Chain	Res	Type
4	D	142	ASN
5	E	60	GLN
6	F	44	GLN
13	O	124	ASN
13	O	130	GLN
15	U	73	GLN
19	Z	58	ASN
2	b	53	ASN
2	b	223	GLN
2	b	331	ASN
3	c	201	ASN
4	d	83	ASN
4	d	142	ASN
5	e	60	GLN
5	e	75	GLN
6	f	44	GLN
12	m	5	GLN
13	o	124	ASN
13	o	130	GLN
19	z	58	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](#)

6 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
12	FME	M	1	12	8,9,10	0.55	0	7,9,11	1.35	1 (14%)
14	FME	t	1	14	8,9,10	0.68	0	7,9,11	1.72	2 (28%)
12	FME	m	1	12	8,9,10	0.61	0	7,9,11	1.64	3 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
8	FME	i	1	8	8,9,10	0.61	0	7,9,11	1.26	1 (14%)
14	FME	T	1	14	8,9,10	0.64	0	7,9,11	1.22	0
8	FME	I	1	8	8,9,10	0.64	0	7,9,11	1.00	1 (14%)

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
12	FME	M	1	12	-	0/7/9/11	-
14	FME	t	1	14	-	0/7/9/11	-
12	FME	m	1	12	-	2/7/9/11	-
8	FME	i	1	8	-	2/7/9/11	-
14	FME	T	1	14	-	3/7/9/11	-
8	FME	I	1	8	-	0/7/9/11	-

There are no bond length outliers.

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	t	1	FME	CA-N-CN	-2.74	118.61	122.82
14	t	1	FME	O-C-CA	-2.68	117.76	124.78
12	M	1	FME	O-C-CA	-2.52	118.17	124.78
12	m	1	FME	CA-N-CN	-2.39	119.15	122.82
8	i	1	FME	O-C-CA	-2.30	118.75	124.78
12	m	1	FME	O1-CN-N	-2.26	119.33	125.27
12	m	1	FME	C-CA-N	2.20	113.70	109.73
8	I	1	FME	O-C-CA	-2.01	119.51	124.78

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
14	T	1	FME	O1-CN-N-CA
14	T	1	FME	C-CA-CB-CG
12	m	1	FME	O1-CN-N-CA
12	m	1	FME	CB-CA-N-CN
14	T	1	FME	N-CA-CB-CG
8	i	1	FME	CA-CB-CG-SD

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Mol	Chain	Res	Type	Atoms
8	i	1	FME	C-CA-CB-CG

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 218 ligands modelled in this entry, 15 are monoatomic and 18 are unknown - leaving 185 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
31	LHG	D	409	-	48,48,48	0.94	2 (4%)	51,54,54	1.06	3 (5%)
23	CLA	c	506	3	65,73,73	2.03	17 (26%)	76,113,113	2.68	28 (36%)
25	BCR	b	617	-	41,41,41	1.06	1 (2%)	56,56,56	1.39	6 (10%)
25	BCR	C	527	-	41,41,41	1.01	1 (2%)	56,56,56	1.57	12 (21%)
36	HTG	b	625	-	19,19,19	0.99	2 (10%)	23,24,24	1.48	3 (13%)
23	CLA	B	611	41	65,73,73	2.06	16 (24%)	76,113,113	2.84	29 (38%)
35	LMT	M	101	-	36,36,36	0.56	0	47,47,47	1.10	3 (6%)
36	HTG	B	625	-	19,19,19	0.83	1 (5%)	23,24,24	1.60	1 (4%)
25	BCR	C	516	-	41,41,41	1.05	1 (2%)	56,56,56	1.50	11 (19%)
23	CLA	C	504	3	65,73,73	2.03	16 (24%)	76,113,113	2.74	24 (31%)
25	BCR	b	618	-	41,41,41	0.98	1 (2%)	56,56,56	1.53	12 (21%)
27	GOL	d	401	-	5,5,5	0.35	0	5,5,5	0.52	0
31	LHG	e	101	-	41,41,48	1.03	2 (4%)	44,47,54	0.94	2 (4%)
37	DGD	C	519	-	63,63,67	0.83	2 (3%)	77,77,81	0.99	4 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
25	BCR	B	619	-	41,41,41	0.97	1 (2%)	56,56,56	1.56	13 (23%)
27	GOL	O	302	-	5,5,5	0.34	0	5,5,5	0.34	0
40	HEC	v	201	16	32,50,50	1.47	4 (12%)	24,82,82	1.53	6 (25%)
23	CLA	b	602	2	65,73,73	2.07	16 (24%)	76,113,113	2.85	32 (42%)
26	SQD	A	409	-	53,54,54	0.98	3 (5%)	62,65,65	1.84	13 (20%)
23	CLA	c	509	3	65,73,73	2.11	17 (26%)	76,113,113	2.76	27 (35%)
37	DGD	c	517	-	63,63,67	0.91	3 (4%)	77,77,81	0.98	4 (5%)
23	CLA	d	403	4	65,73,73	2.06	16 (24%)	76,113,113	2.83	27 (35%)
31	LHG	A	415	-	48,48,48	0.86	2 (4%)	51,54,54	1.18	6 (11%)
23	CLA	b	611	2	65,73,73	2.05	15 (23%)	76,113,113	2.80	27 (35%)
26	SQD	A	411	-	53,54,54	1.03	3 (5%)	62,65,65	1.11	4 (6%)
23	CLA	a	406	41	65,73,73	2.03	13 (20%)	76,113,113	2.83	27 (35%)
23	CLA	b	613	2	65,73,73	2.10	16 (24%)	76,113,113	2.73	28 (36%)
23	CLA	D	401	41	65,73,73	2.05	16 (24%)	76,113,113	2.86	29 (38%)
26	SQD	f	101	-	42,43,54	1.18	3 (7%)	51,54,65	1.53	8 (15%)
23	CLA	c	502	3	65,73,73	2.08	15 (23%)	76,113,113	2.77	25 (32%)
31	LHG	b	630	-	48,48,48	0.93	2 (4%)	51,54,54	1.06	2 (3%)
23	CLA	D	404	4	65,73,73	2.06	16 (24%)	76,113,113	2.87	28 (36%)
35	LMT	b	628	-	25,25,36	0.54	1 (4%)	30,30,47	1.21	4 (13%)
23	CLA	A	407	1	65,73,73	2.06	17 (26%)	76,113,113	2.82	26 (34%)
34	LMG	z	101	-	39,39,55	1.09	2 (5%)	47,47,63	1.12	4 (8%)
23	CLA	B	612	2	65,73,73	2.05	15 (23%)	76,113,113	2.84	29 (38%)
36	HTG	D	412	-	16,16,19	1.03	2 (12%)	20,21,24	1.40	1 (5%)
23	CLA	a	405	41	65,73,73	2.11	15 (23%)	76,113,113	2.77	30 (39%)
25	BCR	Y	101	-	41,41,41	0.98	1 (2%)	56,56,56	1.82	17 (30%)
34	LMG	m	101	-	51,51,55	0.89	2 (3%)	59,59,63	1.17	6 (10%)
23	CLA	c	505	3	65,73,73	2.03	16 (24%)	76,113,113	2.69	25 (32%)
25	BCR	H	101	-	41,41,41	1.08	1 (2%)	56,56,56	1.59	11 (19%)
26	SQD	L	102	-	53,54,54	1.03	3 (5%)	62,65,65	1.53	10 (16%)
23	CLA	B	603	2	65,73,73	2.12	17 (26%)	76,113,113	2.74	27 (35%)
34	LMG	c	520	-	51,51,55	0.97	2 (3%)	59,59,63	1.21	7 (11%)
23	CLA	b	616	2	65,73,73	2.08	16 (24%)	76,113,113	2.66	29 (38%)
34	LMG	c	519	-	51,51,55	0.96	3 (5%)	59,59,63	1.05	5 (8%)
23	CLA	b	612	2	65,73,73	2.06	16 (24%)	76,113,113	2.73	27 (35%)
29	PL9	D	407	-	55,55,55	0.67	2 (3%)	68,69,69	1.66	19 (27%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
35	LMT	e	102	-	36,36,36	0.48	0	47,47,47	0.84	3 (6%)
23	CLA	B	614	2	65,73,73	2.07	16 (24%)	76,113,113	2.66	27 (35%)
31	LHG	d	408	-	48,48,48	0.96	2 (4%)	51,54,54	0.99	3 (5%)
23	CLA	c	504	41	65,73,73	2.10	18 (27%)	76,113,113	2.77	28 (36%)
23	CLA	c	513	3	65,73,73	2.08	17 (26%)	76,113,113	2.86	28 (36%)
27	GOL	B	627	-	5,5,5	0.35	0	5,5,5	0.37	0
23	CLA	c	510	3	65,73,73	2.03	16 (24%)	76,113,113	2.76	32 (42%)
23	CLA	b	615	2	65,73,73	2.00	16 (24%)	76,113,113	2.76	28 (36%)
23	CLA	B	609	2	65,73,73	1.95	16 (24%)	76,113,113	2.77	27 (35%)
23	CLA	C	506	3	65,73,73	2.04	16 (24%)	76,113,113	2.72	27 (35%)
23	CLA	C	513	3	65,73,73	2.06	15 (23%)	76,113,113	2.71	29 (38%)
35	LMT	D	403	-	36,36,36	0.57	1 (2%)	47,47,47	1.20	4 (8%)
23	CLA	b	601	41	65,73,73	2.12	16 (24%)	76,113,113	2.68	26 (34%)
23	CLA	B	610	2	65,73,73	2.01	17 (26%)	76,113,113	2.74	23 (30%)
28	OEX	a	414	41,3,1	0,15,15	-	-	-	-	-
25	BCR	B	618	-	41,41,41	1.04	1 (2%)	56,56,56	1.63	10 (17%)
24	PHO	D	402	-	51,69,69	1.87	8 (15%)	47,99,99	1.85	11 (23%)
27	GOL	A	410	-	5,5,5	0.37	0	5,5,5	0.25	0
37	DGD	H	102	-	63,63,67	0.89	2 (3%)	77,77,81	0.98	3 (3%)
23	CLA	A	404	1	65,73,73	2.11	15 (23%)	76,113,113	2.79	30 (39%)
23	CLA	D	405	4	65,73,73	2.06	15 (23%)	76,113,113	2.82	27 (35%)
26	SQD	D	413	-	42,43,54	1.14	3 (7%)	51,54,65	1.63	12 (23%)
36	HTG	b	621	-	19,19,19	1.24	2 (10%)	23,24,24	1.76	5 (21%)
25	BCR	C	515	-	41,41,41	1.03	1 (2%)	56,56,56	1.54	7 (12%)
23	CLA	d	402	4	65,73,73	2.01	17 (26%)	76,113,113	2.70	28 (36%)
23	CLA	C	514	3	65,73,73	2.06	17 (26%)	76,113,113	2.83	28 (36%)
26	SQD	a	411	-	53,54,54	0.98	3 (5%)	62,65,65	1.60	11 (17%)
35	LMT	B	632	-	25,25,36	0.45	0	30,30,47	0.71	0
35	LMT	a	418	-	36,36,36	0.49	1 (2%)	47,47,47	0.74	1 (2%)
23	CLA	C	509	3	65,73,73	2.07	17 (26%)	76,113,113	2.76	28 (36%)
23	CLA	C	505	41	65,73,73	2.09	16 (24%)	76,113,113	2.69	29 (38%)
29	PL9	d	405	-	55,55,55	0.64	2 (3%)	68,69,69	1.86	22 (32%)
23	CLA	B	613	2	65,73,73	2.03	17 (26%)	76,113,113	2.71	28 (36%)
23	CLA	c	503	3	65,73,73	2.06	16 (24%)	76,113,113	2.73	27 (35%)
36	HTG	V	203	-	11,11,19	0.28	0	15,15,24	1.35	1 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
23	CLA	C	503	3	65,73,73	2.04	16 (24%)	76,113,113	2.65	25 (32%)
23	CLA	B	605	2	65,73,73	2.01	15 (23%)	76,113,113	2.76	28 (36%)
34	LMG	C	501	-	51,51,55	0.95	2 (3%)	59,59,63	1.26	6 (10%)
38	HEM	e	103	6,5	41,50,50	1.32	6 (14%)	45,82,82	1.83	10 (22%)
25	BCR	k	101	-	41,41,41	1.03	1 (2%)	56,56,56	1.61	13 (23%)
23	CLA	B	616	2	65,73,73	2.03	14 (21%)	76,113,113	2.67	29 (38%)
23	CLA	c	508	3	65,73,73	2.10	16 (24%)	76,113,113	2.74	25 (32%)
37	DGD	c	518	-	63,63,67	0.86	3 (4%)	77,77,81	1.09	4 (5%)
37	DGD	C	517	-	63,63,67	0.85	2 (3%)	77,77,81	1.19	7 (9%)
23	CLA	b	614	2	65,73,73	2.05	16 (24%)	76,113,113	2.77	27 (35%)
31	LHG	d	407	-	48,48,48	0.91	2 (4%)	51,54,54	0.93	3 (5%)
34	LMG	B	622	-	51,51,55	0.90	2 (3%)	59,59,63	1.15	5 (8%)
23	CLA	C	502	3	65,73,73	2.05	16 (24%)	76,113,113	2.75	27 (35%)
25	BCR	d	404	-	41,41,41	1.12	1 (2%)	56,56,56	1.68	13 (23%)
35	LMT	B	623	-	36,36,36	0.42	0	47,47,47	1.14	4 (8%)
23	CLA	c	512	3	65,73,73	2.03	16 (24%)	76,113,113	2.77	27 (35%)
23	CLA	b	604	2	65,73,73	2.00	15 (23%)	76,113,113	2.74	27 (35%)
28	OEX	A	412	41,3,1	0,15,15	-	-	-	-	-
23	CLA	A	405	41	65,73,73	2.05	17 (26%)	76,113,113	2.75	29 (38%)
23	CLA	B	604	2	65,73,73	2.04	16 (24%)	76,113,113	2.82	28 (36%)
26	SQD	a	413	-	53,54,54	1.09	4 (7%)	62,65,65	1.23	8 (12%)
38	HEM	E	103	6,5	41,50,50	1.34	6 (14%)	45,82,82	1.88	13 (28%)
36	HTG	B	630	-	19,19,19	1.01	2 (10%)	23,24,24	1.33	1 (4%)
23	CLA	B	607	2	65,73,73	1.98	15 (23%)	76,113,113	2.81	28 (36%)
31	LHG	D	408	-	48,48,48	0.90	2 (4%)	51,54,54	1.00	3 (5%)
23	CLA	a	409	1	65,73,73	2.08	17 (26%)	76,113,113	2.70	32 (42%)
35	LMT	E	102	-	36,36,36	0.51	1 (2%)	47,47,47	0.86	0
35	LMT	C	522	-	36,36,36	0.53	1 (2%)	47,47,47	1.02	4 (8%)
23	CLA	b	603	2	65,73,73	2.03	15 (23%)	76,113,113	2.83	27 (35%)
27	GOL	C	525	-	5,5,5	0.39	0	5,5,5	0.20	0
23	CLA	B	606	2	65,73,73	2.05	17 (26%)	76,113,113	2.78	29 (38%)
23	CLA	c	511	3	65,73,73	2.09	15 (23%)	76,113,113	2.76	26 (34%)
35	LMT	M	103	-	36,36,36	0.46	0	47,47,47	0.78	1 (2%)
25	BCR	c	514	-	41,41,41	1.01	1 (2%)	56,56,56	1.87	15 (26%)
25	BCR	b	619	-	41,41,41	1.08	2 (4%)	56,56,56	1.81	12 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
27	GOL	b	624	-	5,5,5	0.36	0	5,5,5	0.41	0
23	CLA	b	608	2	65,73,73	2.06	16 (24%)	76,113,113	2.74	28 (36%)
25	BCR	c	515	-	41,41,41	0.98	1 (2%)	56,56,56	1.67	14 (25%)
31	LHG	E	101	-	41,41,48	1.02	2 (4%)	44,47,54	1.09	3 (6%)
36	HTG	b	623	-	19,19,19	1.08	2 (10%)	23,24,24	1.63	3 (13%)
34	LMG	C	520	-	51,51,55	0.94	2 (3%)	59,59,63	1.08	3 (5%)
25	BCR	A	408	-	41,41,41	0.99	1 (2%)	56,56,56	1.65	16 (28%)
23	CLA	b	607	41	65,73,73	1.96	17 (26%)	76,113,113	2.75	27 (35%)
34	LMG	J	101	39	51,51,55	0.91	3 (5%)	59,59,63	1.07	5 (8%)
34	LMG	Z	101	-	37,37,55	0.99	3 (8%)	45,45,63	1.54	8 (17%)
32	BCT	a	419	21	2,3,3	0.65	0	2,3,3	0.46	0
37	DGD	c	516	-	63,63,67	0.85	2 (3%)	77,77,81	1.08	6 (7%)
23	CLA	c	501	3	65,73,73	2.07	17 (26%)	76,113,113	2.72	27 (35%)
36	HTG	B	624	-	19,19,19	0.98	1 (5%)	23,24,24	1.38	4 (17%)
23	CLA	b	606	2	65,73,73	1.99	16 (24%)	76,113,113	2.81	26 (34%)
23	CLA	b	610	41	65,73,73	2.11	16 (24%)	76,113,113	2.78	28 (36%)
36	HTG	B	629	-	19,19,19	0.97	2 (10%)	23,24,24	1.35	3 (13%)
36	HTG	h	101	-	16,16,19	1.09	2 (12%)	20,21,24	1.30	1 (5%)
25	BCR	h	102	-	41,41,41	1.05	1 (2%)	56,56,56	1.47	10 (17%)
23	CLA	C	510	3	65,73,73	2.09	17 (26%)	76,113,113	2.83	27 (35%)
36	HTG	C	523	-	19,19,19	0.96	1 (5%)	23,24,24	1.50	3 (13%)
35	LMT	B	634	-	26,26,36	0.49	0	31,31,47	0.90	1 (3%)
35	LMT	m	103	-	36,36,36	0.50	0	47,47,47	0.93	1 (2%)
40	HEC	V	202	16	32,50,50	1.46	4 (12%)	24,82,82	1.49	5 (20%)
23	CLA	b	605	2	65,73,73	2.04	17 (26%)	76,113,113	2.79	28 (36%)
23	CLA	C	508	41	65,73,73	2.04	15 (23%)	76,113,113	2.68	27 (35%)
25	BCR	B	620	-	41,41,41	1.06	1 (2%)	56,56,56	1.50	12 (21%)
31	LHG	d	406	-	48,48,48	0.87	3 (6%)	51,54,54	1.09	5 (9%)
34	LMG	a	417	-	51,51,55	0.96	3 (5%)	59,59,63	1.11	4 (6%)
23	CLA	C	507	3	65,73,73	2.06	17 (26%)	76,113,113	2.76	29 (38%)
34	LMG	j	101	39	51,51,55	0.91	2 (3%)	59,59,63	1.08	6 (10%)
24	PHO	A	406	-	51,69,69	1.88	7 (13%)	47,99,99	1.90	12 (25%)
35	LMT	b	620	-	25,25,36	0.46	0	30,30,47	0.66	0
25	BCR	t	101	-	41,41,41	1.01	1 (2%)	56,56,56	1.84	13 (23%)
25	BCR	a	410	-	41,41,41	0.99	1 (2%)	56,56,56	1.57	13 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
36	HTG	C	524	-	8,8,19	0.39	0	7,7,24	1.15	1 (14%)
26	SQD	B	621	-	53,54,54	1.04	3 (5%)	62,65,65	1.45	8 (12%)
36	HTG	B	626	-	19,19,19	0.96	1 (5%)	23,24,24	1.59	2 (8%)
37	DGD	C	518	-	63,63,67	0.86	2 (3%)	77,77,81	0.98	5 (6%)
27	GOL	B	628	-	5,5,5	0.54	0	5,5,5	0.49	0
24	PHO	a	408	-	51,69,69	1.96	8 (15%)	47,99,99	1.88	12 (25%)
23	CLA	B	617	2	65,73,73	2.05	16 (24%)	76,113,113	2.79	27 (35%)
23	CLA	c	507	41	65,73,73	2.08	17 (26%)	76,113,113	2.79	29 (38%)
27	GOL	a	412	-	5,5,5	0.43	0	5,5,5	0.27	0
29	PL9	a	415	-	55,55,55	0.65	1 (1%)	68,69,69	2.00	20 (29%)
31	LHG	L	101	-	48,48,48	0.91	2 (4%)	51,54,54	1.17	4 (7%)
36	HTG	b	622	-	19,19,19	1.01	2 (10%)	23,24,24	1.39	2 (8%)
23	CLA	B	602	41	65,73,73	2.06	16 (24%)	76,113,113	2.76	29 (38%)
23	CLA	B	615	2	65,73,73	2.00	16 (24%)	76,113,113	2.86	26 (34%)
24	PHO	a	407	-	51,69,69	1.85	7 (13%)	47,99,99	1.92	12 (25%)
25	BCR	T	101	-	41,41,41	1.04	1 (2%)	56,56,56	1.85	10 (17%)
25	BCR	y	101	-	41,41,41	1.09	1 (2%)	56,56,56	1.66	12 (21%)
23	CLA	C	512	3	65,73,73	2.08	17 (26%)	76,113,113	2.69	27 (35%)
34	LMG	C	521	-	51,51,55	0.98	3 (5%)	59,59,63	1.21	4 (6%)
37	DGD	h	103	-	63,63,67	0.89	3 (4%)	77,77,81	0.96	3 (3%)
23	CLA	b	609	2	65,73,73	2.08	17 (26%)	76,113,113	2.80	26 (34%)
36	HTG	c	521	-	19,19,19	0.93	1 (5%)	23,24,24	1.46	1 (4%)
25	BCR	D	406	-	41,41,41	1.03	1 (2%)	56,56,56	1.77	13 (23%)
36	HTG	b	626	-	19,19,19	1.08	2 (10%)	23,24,24	1.28	2 (8%)
23	CLA	a	404	1	65,73,73	2.05	15 (23%)	76,113,113	2.73	32 (42%)
23	CLA	C	511	3	65,73,73	2.05	14 (21%)	76,113,113	2.73	26 (34%)
29	PL9	A	413	-	55,55,55	0.63	2 (3%)	68,69,69	1.96	22 (32%)
32	BCT	A	416	21	2,3,3	0.66	0	2,3,3	0.33	0
23	CLA	B	608	41	65,73,73	2.07	17 (26%)	76,113,113	2.76	29 (38%)
36	HTG	c	522	-	19,19,19	1.00	2 (10%)	23,24,24	1.47	3 (13%)
35	LMT	B	633	-	36,36,36	0.56	1 (2%)	47,47,47	0.97	1 (2%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	LHG	D	409	-	-	14/53/53/53	-
23	CLA	c	506	3	1/1/15/20	12/37/115/115	-
25	BCR	b	617	-	-	2/29/63/63	0/2/2/2
25	BCR	C	527	-	-	1/29/63/63	0/2/2/2
36	HTG	b	625	-	-	5/10/30/30	0/1/1/1
23	CLA	B	611	41	1/1/15/20	7/37/115/115	-
35	LMT	M	101	-	-	2/21/61/61	0/2/2/2
36	HTG	B	625	-	-	5/10/30/30	0/1/1/1
25	BCR	C	516	-	-	1/29/63/63	0/2/2/2
23	CLA	C	504	3	1/1/15/20	3/37/115/115	-
25	BCR	b	618	-	-	2/29/63/63	0/2/2/2
27	GOL	d	401	-	-	2/4/4/4	-
31	LHG	e	101	-	-	14/46/46/53	-
37	DGD	C	519	-	-	7/51/91/95	0/2/2/2
25	BCR	B	619	-	-	0/29/63/63	0/2/2/2
27	GOL	O	302	-	-	2/4/4/4	-
40	HEC	v	201	16	-	2/10/54/54	-
23	CLA	b	602	2	1/1/15/20	4/37/115/115	-
26	SQD	A	409	-	-	14/49/69/69	0/1/1/1
23	CLA	c	509	3	1/1/15/20	15/37/115/115	-
37	DGD	c	517	-	-	14/51/91/95	0/2/2/2
23	CLA	d	403	4	1/1/15/20	6/37/115/115	-
31	LHG	A	415	-	-	11/53/53/53	-
23	CLA	b	611	2	1/1/15/20	10/37/115/115	-
26	SQD	A	411	-	-	14/49/69/69	0/1/1/1
23	CLA	a	406	41	-	8/37/115/115	-
23	CLA	b	613	2	1/1/15/20	7/37/115/115	-
23	CLA	D	401	41	1/1/15/20	8/37/115/115	-
26	SQD	f	101	-	-	16/38/58/69	0/1/1/1
23	CLA	c	502	3	1/1/15/20	8/37/115/115	-
31	LHG	b	630	-	-	19/53/53/53	-
23	CLA	D	404	4	1/1/15/20	2/37/115/115	-
35	LMT	b	628	-	-	9/17/37/61	0/1/1/2
23	CLA	A	407	1	1/1/15/20	8/37/115/115	-
34	LMG	z	101	-	-	15/34/54/70	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	CLA	B	612	2	1/1/15/20	4/37/115/115	-
36	HTG	D	412	-	-	1/7/27/30	0/1/1/1
23	CLA	a	405	41	1/1/15/20	5/37/115/115	-
25	BCR	Y	101	-	-	3/29/63/63	0/2/2/2
34	LMG	m	101	-	-	16/46/66/70	0/1/1/1
23	CLA	c	505	3	1/1/15/20	7/37/115/115	-
25	BCR	H	101	-	-	4/29/63/63	0/2/2/2
26	SQD	L	102	-	-	22/49/69/69	0/1/1/1
23	CLA	B	603	2	1/1/15/20	8/37/115/115	-
34	LMG	c	520	-	-	8/46/66/70	0/1/1/1
23	CLA	b	616	2	1/1/15/20	12/37/115/115	-
34	LMG	c	519	-	-	13/46/66/70	0/1/1/1
23	CLA	b	612	2	1/1/15/20	5/37/115/115	-
29	PL9	D	407	-	-	7/53/73/73	0/1/1/1
35	LMT	e	102	-	-	8/21/61/61	0/2/2/2
23	CLA	B	614	2	1/1/15/20	5/37/115/115	-
31	LHG	d	408	-	-	17/53/53/53	-
23	CLA	c	504	41	1/1/15/20	12/37/115/115	-
23	CLA	c	513	3	-	6/37/115/115	-
27	GOL	B	627	-	-	4/4/4/4	-
23	CLA	c	510	3	1/1/15/20	8/37/115/115	-
23	CLA	b	615	2	1/1/15/20	7/37/115/115	-
23	CLA	B	609	2	1/1/15/20	4/37/115/115	-
23	CLA	C	506	3	1/1/15/20	7/37/115/115	-
23	CLA	C	513	3	1/1/15/20	7/37/115/115	-
35	LMT	D	403	-	-	8/21/61/61	0/2/2/2
23	CLA	b	601	41	1/1/15/20	19/37/115/115	-
23	CLA	B	610	2	1/1/15/20	9/37/115/115	-
25	BCR	B	618	-	-	2/29/63/63	0/2/2/2
24	PHO	D	402	-	-	5/37/103/103	0/5/6/6
27	GOL	A	410	-	-	4/4/4/4	-
37	DGD	H	102	-	-	10/51/91/95	0/2/2/2
23	CLA	A	404	1	1/1/15/20	3/37/115/115	-
23	CLA	D	405	4	1/1/15/20	7/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	SQD	D	413	-	-	14/38/58/69	0/1/1/1
36	HTG	b	621	-	-	2/10/30/30	0/1/1/1
25	BCR	C	515	-	-	1/29/63/63	0/2/2/2
23	CLA	d	402	4	1/1/15/20	3/37/115/115	-
23	CLA	C	514	3	-	8/37/115/115	-
26	SQD	a	411	-	-	14/49/69/69	0/1/1/1
35	LMT	B	632	-	-	7/17/37/61	0/1/1/2
35	LMT	a	418	-	-	3/21/61/61	0/2/2/2
23	CLA	C	509	3	1/1/15/20	6/37/115/115	-
23	CLA	C	505	41	1/1/15/20	6/37/115/115	-
29	PL9	d	405	-	-	6/53/73/73	0/1/1/1
23	CLA	B	613	2	1/1/15/20	4/37/115/115	-
23	CLA	c	503	3	1/1/15/20	3/37/115/115	-
36	HTG	V	203	-	-	0/2/19/30	0/1/1/1
23	CLA	C	503	3	1/1/15/20	9/37/115/115	-
23	CLA	B	605	2	1/1/15/20	13/37/115/115	-
34	LMG	C	501	-	-	11/46/66/70	0/1/1/1
38	HEM	e	103	6,5	-	6/12/54/54	-
25	BCR	k	101	-	-	1/29/63/63	0/2/2/2
23	CLA	B	616	2	1/1/15/20	10/37/115/115	-
23	CLA	c	508	3	1/1/15/20	6/37/115/115	-
37	DGD	c	518	-	-	6/51/91/95	0/2/2/2
37	DGD	C	517	-	-	15/51/91/95	0/2/2/2
23	CLA	b	614	2	1/1/15/20	15/37/115/115	-
31	LHG	d	407	-	-	23/53/53/53	-
34	LMG	B	622	-	-	12/46/66/70	0/1/1/1
23	CLA	C	502	3	1/1/15/20	5/37/115/115	-
25	BCR	d	404	-	-	8/29/63/63	0/2/2/2
35	LMT	B	623	-	-	8/21/61/61	0/2/2/2
23	CLA	c	512	3	1/1/15/20	9/37/115/115	-
23	CLA	b	604	2	1/1/15/20	9/37/115/115	-
23	CLA	B	604	2	1/1/15/20	6/37/115/115	-
23	CLA	A	405	41	-	8/37/115/115	-
26	SQD	a	413	-	-	16/49/69/69	0/1/1/1
38	HEM	E	103	6,5	-	4/12/54/54	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	HTG	B	630	-	-	1/10/30/30	0/1/1/1
23	CLA	B	607	2	1/1/15/20	5/37/115/115	-
31	LHG	D	408	-	-	18/53/53/53	-
23	CLA	a	409	1	1/1/15/20	7/37/115/115	-
35	LMT	E	102	-	-	10/21/61/61	0/2/2/2
35	LMT	C	522	-	-	9/21/61/61	0/2/2/2
23	CLA	b	603	2	1/1/15/20	4/37/115/115	-
27	GOL	C	525	-	-	2/4/4/4	-
23	CLA	B	606	2	1/1/15/20	11/37/115/115	-
23	CLA	c	511	3	1/1/15/20	5/37/115/115	-
35	LMT	M	103	-	-	14/21/61/61	0/2/2/2
25	BCR	c	514	-	-	2/29/63/63	0/2/2/2
25	BCR	b	619	-	-	0/29/63/63	0/2/2/2
27	GOL	b	624	-	-	2/4/4/4	-
23	CLA	b	608	2	-	5/37/115/115	-
25	BCR	c	515	-	-	0/29/63/63	0/2/2/2
31	LHG	E	101	-	-	17/46/46/53	-
36	HTG	b	623	-	-	2/10/30/30	0/1/1/1
34	LMG	C	520	-	-	16/46/66/70	0/1/1/1
25	BCR	A	408	-	-	1/29/63/63	0/2/2/2
23	CLA	b	607	41	1/1/15/20	9/37/115/115	-
34	LMG	J	101	39	-	10/46/66/70	0/1/1/1
34	LMG	Z	101	-	-	14/31/51/70	0/1/1/1
37	DGD	c	516	-	-	15/51/91/95	0/2/2/2
23	CLA	c	501	3	1/1/15/20	8/37/115/115	-
36	HTG	B	624	-	-	4/10/30/30	0/1/1/1
23	CLA	b	606	2	1/1/15/20	10/37/115/115	-
23	CLA	b	610	41	1/1/15/20	7/37/115/115	-
36	HTG	B	629	-	-	1/10/30/30	0/1/1/1
36	HTG	h	101	-	-	3/7/27/30	0/1/1/1
25	BCR	h	102	-	-	0/29/63/63	0/2/2/2
23	CLA	C	510	3	1/1/15/20	14/37/115/115	-
36	HTG	C	523	-	-	0/10/30/30	0/1/1/1
35	LMT	B	634	-	-	6/17/38/61	0/1/1/2
35	LMT	m	103	-	-	8/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
40	HEC	V	202	16	-	2/10/54/54	-
23	CLA	b	605	2	1/1/15/20	13/37/115/115	-
23	CLA	C	508	41	1/1/15/20	7/37/115/115	-
25	BCR	B	620	-	-	0/29/63/63	0/2/2/2
31	LHG	d	406	-	-	12/53/53/53	-
34	LMG	a	417	-	-	14/46/66/70	0/1/1/1
23	CLA	C	507	3	1/1/15/20	14/37/115/115	-
34	LMG	j	101	39	-	8/46/66/70	0/1/1/1
24	PHO	A	406	-	-	5/37/103/103	0/5/6/6
35	LMT	b	620	-	-	5/17/37/61	0/1/1/2
25	BCR	t	101	-	-	1/29/63/63	0/2/2/2
25	BCR	a	410	-	-	0/29/63/63	0/2/2/2
36	HTG	C	524	-	-	1/6/6/30	-
26	SQD	B	621	-	-	21/49/69/69	0/1/1/1
36	HTG	B	626	-	-	4/10/30/30	0/1/1/1
37	DGD	C	518	-	-	15/51/91/95	0/2/2/2
27	GOL	B	628	-	-	4/4/4/4	-
24	PHO	a	408	-	-	2/37/103/103	0/5/6/6
23	CLA	B	617	2	1/1/15/20	7/37/115/115	-
23	CLA	c	507	41	1/1/15/20	8/37/115/115	-
27	GOL	a	412	-	-	2/4/4/4	-
29	PL9	a	415	-	-	16/53/73/73	0/1/1/1
31	LHG	L	101	-	-	16/53/53/53	-
36	HTG	b	622	-	-	1/10/30/30	0/1/1/1
23	CLA	B	602	41	1/1/15/20	13/37/115/115	-
23	CLA	B	615	2	1/1/15/20	12/37/115/115	-
24	PHO	a	407	-	-	5/37/103/103	0/5/6/6
25	BCR	T	101	-	-	5/29/63/63	0/2/2/2
25	BCR	y	101	-	-	4/29/63/63	0/2/2/2
23	CLA	C	512	3	1/1/15/20	6/37/115/115	-
34	LMG	C	521	-	-	9/46/66/70	0/1/1/1
37	DGD	h	103	-	-	11/51/91/95	0/2/2/2
23	CLA	b	609	2	1/1/15/20	8/37/115/115	-
36	HTG	c	521	-	-	3/10/30/30	0/1/1/1
25	BCR	D	406	-	-	7/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
36	HTG	b	626	-	-	0/10/30/30	0/1/1/1
23	CLA	a	404	1	1/1/15/20	5/37/115/115	-
23	CLA	C	511	3	1/1/15/20	13/37/115/115	-
29	PL9	A	413	-	-	11/53/73/73	0/1/1/1
23	CLA	B	608	41	1/1/15/20	3/37/115/115	-
36	HTG	c	522	-	-	2/10/30/30	0/1/1/1
35	LMT	B	633	-	-	5/21/61/61	0/2/2/2

All (1328) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	502	CLA	C3B-C2B	6.96	1.50	1.40
23	B	614	CLA	C3B-C2B	6.74	1.49	1.40
24	a	407	PHO	C3B-C2B	6.71	1.49	1.40
24	A	406	PHO	C3B-C2B	6.68	1.49	1.40
23	A	404	CLA	C3B-C2B	6.65	1.49	1.40
24	a	408	PHO	C3B-C2B	6.62	1.49	1.40
23	C	509	CLA	C3B-C2B	6.56	1.49	1.40
23	b	613	CLA	C3B-C2B	6.54	1.49	1.40
23	D	404	CLA	C3B-C2B	6.49	1.49	1.40
23	c	504	CLA	C3B-C2B	6.48	1.49	1.40
23	b	612	CLA	C3B-C2B	6.45	1.49	1.40
23	b	611	CLA	C3B-C2B	6.44	1.49	1.40
23	C	505	CLA	C3B-C2B	6.41	1.49	1.40
23	b	614	CLA	C3B-C2B	6.37	1.49	1.40
23	C	512	CLA	C3B-C2B	6.36	1.49	1.40
23	B	613	CLA	C3B-C2B	6.31	1.49	1.40
23	C	502	CLA	C3B-C2B	6.31	1.49	1.40
23	b	602	CLA	C3B-C2B	6.29	1.49	1.40
23	A	404	CLA	C1D-ND	6.28	1.45	1.37
23	a	404	CLA	C3B-C2B	6.28	1.49	1.40
23	b	608	CLA	C3B-C2B	6.26	1.49	1.40
23	b	610	CLA	C3B-C2B	6.24	1.49	1.40
23	B	612	CLA	C3B-C2B	6.22	1.49	1.40
23	c	508	CLA	C3B-C2B	6.22	1.49	1.40
23	a	405	CLA	C3B-C2B	6.15	1.48	1.40
23	C	510	CLA	C3B-C2B	6.14	1.48	1.40
23	c	511	CLA	C3B-C2B	6.12	1.48	1.40
23	B	604	CLA	C3B-C2B	6.09	1.48	1.40
23	a	406	CLA	C3B-C2B	6.07	1.48	1.40
23	B	617	CLA	C3B-C2B	6.06	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	509	CLA	C3B-C2B	6.05	1.48	1.40
23	b	616	CLA	C3B-C2B	6.04	1.48	1.40
23	B	602	CLA	C3B-C2B	5.94	1.48	1.40
23	b	601	CLA	C3B-C2B	5.93	1.48	1.40
23	c	501	CLA	C3B-C2B	5.93	1.48	1.40
23	B	611	CLA	C3B-C2B	5.90	1.48	1.40
23	d	403	CLA	C3B-C2B	5.90	1.48	1.40
23	C	513	CLA	C3B-C2B	5.88	1.48	1.40
23	b	609	CLA	C3B-C2B	5.86	1.48	1.40
24	D	402	PHO	C3B-C2B	5.86	1.48	1.40
23	B	603	CLA	C3B-C2B	5.84	1.48	1.40
23	A	407	CLA	C3B-C2B	5.82	1.48	1.40
23	C	509	CLA	C3C-C2C	5.80	1.49	1.36
23	c	510	CLA	C3B-C2B	5.77	1.48	1.40
23	C	514	CLA	C3B-C2B	5.77	1.48	1.40
23	b	605	CLA	C3B-C2B	5.77	1.48	1.40
23	c	513	CLA	C3B-C2B	5.75	1.48	1.40
23	B	605	CLA	C3B-C2B	5.74	1.48	1.40
23	D	404	CLA	C3C-C2C	5.69	1.48	1.36
23	C	506	CLA	C3B-C2B	5.67	1.48	1.40
23	d	402	CLA	C3B-C2B	5.67	1.48	1.40
23	A	405	CLA	CHC-C1C	5.65	1.49	1.35
23	b	604	CLA	C3B-C2B	5.65	1.48	1.40
23	b	610	CLA	C3C-C2C	5.65	1.48	1.36
23	B	617	CLA	C3C-C2C	5.59	1.48	1.36
23	c	503	CLA	C3B-C2B	5.59	1.48	1.40
23	C	507	CLA	C3B-C2B	5.58	1.48	1.40
23	B	602	CLA	C3C-C2C	5.58	1.48	1.36
24	A	406	PHO	C3D-C2D	5.55	1.49	1.39
24	a	407	PHO	C3D-C2D	5.54	1.49	1.39
23	C	508	CLA	C3C-C2C	5.54	1.48	1.36
24	a	408	PHO	C3D-C2D	5.54	1.49	1.39
23	b	613	CLA	C3C-C2C	5.54	1.48	1.36
23	B	608	CLA	C3B-C2B	5.53	1.48	1.40
23	C	511	CLA	C3B-C2B	5.53	1.48	1.40
23	b	615	CLA	C3C-C2C	5.53	1.48	1.36
23	c	508	CLA	C3C-C2C	5.53	1.48	1.36
23	B	603	CLA	C3C-C2C	5.53	1.48	1.36
25	d	404	BCR	C23-C22	-5.52	1.34	1.45
23	c	512	CLA	C3C-C2C	5.51	1.48	1.36
23	b	606	CLA	C3B-C2B	5.50	1.48	1.40
23	A	407	CLA	C3C-C2C	5.50	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	D	402	PHO	C3D-C2D	5.50	1.49	1.39
23	a	406	CLA	C3C-C2C	5.49	1.48	1.36
23	a	405	CLA	C3C-C2C	5.48	1.48	1.36
23	B	616	CLA	C1D-ND	5.48	1.44	1.37
23	a	409	CLA	C3B-C2B	5.46	1.47	1.40
23	d	403	CLA	CHC-C1C	5.46	1.49	1.35
23	B	606	CLA	C1D-ND	5.45	1.44	1.37
23	A	404	CLA	CHC-C1C	5.44	1.48	1.35
23	B	611	CLA	C3C-C2C	5.44	1.48	1.36
23	c	511	CLA	C3C-C2C	5.43	1.48	1.36
23	D	405	CLA	C3C-C2C	5.43	1.48	1.36
23	b	616	CLA	C3C-C2C	5.43	1.48	1.36
23	C	504	CLA	C3C-C2C	5.42	1.48	1.36
23	B	609	CLA	C3B-C2B	5.42	1.47	1.40
23	B	615	CLA	C3B-C2B	5.41	1.47	1.40
23	C	513	CLA	CHC-C1C	5.41	1.48	1.35
23	C	504	CLA	C3B-C2B	5.41	1.47	1.40
23	b	612	CLA	C3C-C2C	5.41	1.48	1.36
23	c	501	CLA	C3C-C2C	5.40	1.48	1.36
23	b	611	CLA	C3C-C2C	5.40	1.48	1.36
23	D	405	CLA	CHC-C1C	5.39	1.48	1.35
23	b	603	CLA	C3C-C2C	5.39	1.48	1.36
23	b	601	CLA	C1D-ND	5.39	1.44	1.37
23	b	606	CLA	C3C-C2C	5.39	1.48	1.36
23	C	514	CLA	C1D-ND	5.38	1.44	1.37
23	B	612	CLA	C1D-ND	5.37	1.44	1.37
23	C	504	CLA	C1D-ND	5.37	1.44	1.37
23	c	505	CLA	C3C-C2C	5.37	1.48	1.36
23	C	505	CLA	C3C-C2C	5.37	1.48	1.36
23	c	513	CLA	C3C-C2C	5.36	1.48	1.36
23	c	507	CLA	C3B-C2B	5.36	1.47	1.40
23	b	609	CLA	CHC-C1C	5.36	1.48	1.35
23	c	507	CLA	CHC-C1C	5.35	1.48	1.35
23	B	605	CLA	CHC-C1C	5.35	1.48	1.35
23	c	506	CLA	C3B-C2B	5.35	1.47	1.40
23	c	502	CLA	C3C-C2C	5.34	1.48	1.36
23	A	405	CLA	C3B-C2B	5.34	1.47	1.40
23	C	514	CLA	CHC-C1C	5.34	1.48	1.35
23	b	603	CLA	C3B-C2B	5.33	1.47	1.40
23	A	407	CLA	CHC-C1C	5.33	1.48	1.35
23	B	611	CLA	CHC-C1C	5.32	1.48	1.35
23	c	505	CLA	C3B-C2B	5.32	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	a	409	CLA	CHC-C1C	5.31	1.48	1.35
23	C	512	CLA	CHC-C1C	5.31	1.48	1.35
23	D	401	CLA	CHC-C1C	5.31	1.48	1.35
23	B	604	CLA	C3C-C2C	5.31	1.48	1.36
23	B	612	CLA	O2D-CGD	5.31	1.46	1.33
23	b	615	CLA	C3B-C2B	5.31	1.47	1.40
23	B	607	CLA	C3C-C2C	5.30	1.48	1.36
23	a	405	CLA	C1D-ND	5.30	1.44	1.37
23	c	509	CLA	C1D-ND	5.29	1.44	1.37
23	d	403	CLA	C3C-C2C	5.29	1.48	1.36
23	B	608	CLA	C3C-C2C	5.29	1.48	1.36
23	b	614	CLA	C3C-C2C	5.28	1.48	1.36
23	c	513	CLA	C1D-ND	5.28	1.44	1.37
23	C	513	CLA	C3C-C2C	5.28	1.48	1.36
23	b	601	CLA	C3C-C2C	5.28	1.48	1.36
23	c	510	CLA	O2D-CGD	5.28	1.46	1.33
23	B	609	CLA	C3C-C2C	5.27	1.47	1.36
23	b	605	CLA	C1D-ND	5.27	1.44	1.37
23	C	511	CLA	C3C-C2C	5.26	1.47	1.36
23	C	503	CLA	CHC-C1C	5.26	1.48	1.35
23	D	405	CLA	C3B-C2B	5.26	1.47	1.40
23	B	608	CLA	CHC-C1C	5.26	1.48	1.35
23	c	511	CLA	C1D-ND	5.26	1.44	1.37
23	D	401	CLA	C3C-C2C	5.26	1.47	1.36
23	C	503	CLA	C3B-C2B	5.26	1.47	1.40
24	a	408	PHO	O2D-CGD	5.26	1.46	1.33
23	c	512	CLA	C3B-C2B	5.25	1.47	1.40
23	B	606	CLA	CHC-C1C	5.25	1.48	1.35
23	b	605	CLA	C3C-C2C	5.25	1.47	1.36
23	b	602	CLA	CHC-C1C	5.24	1.48	1.35
25	y	101	BCR	C23-C22	-5.24	1.34	1.45
23	B	603	CLA	CHC-C1C	5.24	1.48	1.35
23	a	409	CLA	C3C-C2C	5.23	1.47	1.36
23	b	606	CLA	C1D-ND	5.23	1.44	1.37
23	c	509	CLA	C3C-C2C	5.23	1.47	1.36
23	b	602	CLA	C3C-C2C	5.23	1.47	1.36
23	d	403	CLA	C1D-ND	5.23	1.44	1.37
23	c	505	CLA	CHC-C1C	5.23	1.48	1.35
23	b	616	CLA	C1D-ND	5.23	1.44	1.37
23	B	615	CLA	C3C-C2C	5.23	1.47	1.36
23	B	606	CLA	C3C-C2C	5.23	1.47	1.36
23	b	608	CLA	C3C-C2C	5.23	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	507	CLA	C1D-ND	5.22	1.44	1.37
23	c	507	CLA	C3C-C2C	5.22	1.47	1.36
23	c	504	CLA	O2D-CGD	5.21	1.45	1.33
23	c	501	CLA	C1D-ND	5.21	1.44	1.37
23	C	507	CLA	O2D-CGD	5.21	1.45	1.33
23	b	601	CLA	CHC-C1C	5.20	1.48	1.35
23	b	610	CLA	CHC-C1C	5.20	1.48	1.35
23	C	502	CLA	C3C-C2C	5.20	1.47	1.36
23	A	404	CLA	C3C-C2C	5.20	1.47	1.36
23	c	512	CLA	CHC-C1C	5.19	1.48	1.35
23	c	508	CLA	CHC-C1C	5.19	1.48	1.35
23	B	604	CLA	CHC-C1C	5.19	1.48	1.35
23	B	607	CLA	C3B-C2B	5.19	1.47	1.40
23	C	506	CLA	CHC-C1C	5.19	1.48	1.35
23	b	607	CLA	C3B-C2B	5.19	1.47	1.40
23	c	503	CLA	C1D-ND	5.18	1.44	1.37
24	D	402	PHO	OBD-CAD	5.18	1.29	1.22
23	A	405	CLA	C3C-C2C	5.18	1.47	1.36
23	C	506	CLA	C3C-C2C	5.18	1.47	1.36
23	D	405	CLA	C1D-ND	5.17	1.44	1.37
25	b	619	BCR	C23-C22	-5.17	1.34	1.45
23	C	507	CLA	C3C-C2C	5.17	1.47	1.36
25	k	101	BCR	C23-C22	-5.16	1.34	1.45
23	b	612	CLA	CHC-C1C	5.16	1.48	1.35
23	b	609	CLA	C1D-ND	5.16	1.44	1.37
23	C	510	CLA	C3C-C2C	5.15	1.47	1.36
23	b	604	CLA	CHC-C1C	5.15	1.48	1.35
23	B	616	CLA	C3B-C2B	5.15	1.47	1.40
23	b	602	CLA	O2D-CGD	5.14	1.45	1.33
23	B	603	CLA	C1D-ND	5.14	1.44	1.37
23	a	404	CLA	C3C-C2C	5.14	1.47	1.36
23	B	610	CLA	C3B-C2B	5.14	1.47	1.40
23	B	613	CLA	C3C-C2C	5.14	1.47	1.36
23	c	509	CLA	O2D-CGD	5.14	1.45	1.33
23	c	506	CLA	O2D-CGD	5.14	1.45	1.33
23	B	610	CLA	C3C-C2C	5.13	1.47	1.36
23	b	614	CLA	CHC-C1C	5.13	1.48	1.35
23	C	513	CLA	C1D-ND	5.13	1.44	1.37
23	C	502	CLA	CHC-C1C	5.13	1.48	1.35
23	D	401	CLA	C3B-C2B	5.13	1.47	1.40
23	D	401	CLA	O2D-CGD	5.13	1.45	1.33
23	C	508	CLA	CHC-C1C	5.13	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	601	CLA	O2D-CGD	5.13	1.45	1.33
23	c	508	CLA	C1D-ND	5.13	1.44	1.37
23	c	511	CLA	CHC-C1C	5.13	1.48	1.35
23	B	614	CLA	O2D-CGD	5.13	1.45	1.33
23	B	610	CLA	O2D-CGD	5.12	1.45	1.33
23	c	502	CLA	CHC-C1C	5.11	1.48	1.35
23	C	503	CLA	C3C-C2C	5.11	1.47	1.36
23	C	514	CLA	C3C-C2C	5.11	1.47	1.36
23	C	502	CLA	C1D-ND	5.11	1.44	1.37
23	C	512	CLA	O2D-CGD	5.10	1.45	1.33
23	C	510	CLA	C1D-ND	5.10	1.44	1.37
23	C	503	CLA	C1D-ND	5.10	1.44	1.37
23	C	506	CLA	C1D-ND	5.10	1.44	1.37
23	d	402	CLA	CHC-C1C	5.10	1.48	1.35
23	B	616	CLA	O2D-CGD	5.09	1.45	1.33
23	c	513	CLA	CHC-C1C	5.09	1.48	1.35
23	B	605	CLA	C3C-C2C	5.09	1.47	1.36
23	B	610	CLA	CHC-C1C	5.09	1.48	1.35
23	C	504	CLA	CHC-C1C	5.08	1.48	1.35
23	a	404	CLA	CHC-C1C	5.08	1.48	1.35
23	b	603	CLA	CHC-C1C	5.08	1.48	1.35
23	C	508	CLA	C3B-C2B	5.08	1.47	1.40
23	b	604	CLA	C3C-C2C	5.08	1.47	1.36
23	b	604	CLA	C1D-ND	5.08	1.44	1.37
23	b	616	CLA	O2D-CGD	5.08	1.45	1.33
23	c	503	CLA	C3C-C2C	5.07	1.47	1.36
23	c	503	CLA	CHC-C1C	5.07	1.48	1.35
23	A	407	CLA	O2D-CGD	5.07	1.45	1.33
23	b	603	CLA	C1D-ND	5.07	1.44	1.37
24	a	408	PHO	OBD-CAD	5.07	1.29	1.22
23	B	617	CLA	CHC-C1C	5.07	1.48	1.35
23	c	504	CLA	C3C-C2C	5.06	1.47	1.36
23	B	614	CLA	C3C-C2C	5.05	1.47	1.36
25	B	620	BCR	C23-C22	-5.04	1.35	1.45
23	C	507	CLA	CHC-C1C	5.04	1.47	1.35
25	T	101	BCR	C23-C22	-5.03	1.35	1.45
23	B	616	CLA	C3C-C2C	5.03	1.47	1.36
23	C	510	CLA	CHC-C1C	5.03	1.47	1.35
23	c	501	CLA	CHC-C1C	5.03	1.47	1.35
25	H	101	BCR	C23-C22	-5.02	1.35	1.45
23	a	406	CLA	CHC-C1C	5.02	1.47	1.35
23	b	614	CLA	O2D-CGD	5.02	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	610	CLA	C1D-ND	5.02	1.44	1.37
23	B	602	CLA	O2D-CGD	5.01	1.45	1.33
23	c	510	CLA	C3C-C2C	5.01	1.47	1.36
23	b	613	CLA	CHC-C1C	5.01	1.47	1.35
23	B	602	CLA	CHC-C1C	5.01	1.47	1.35
23	c	509	CLA	CHC-C1C	5.01	1.47	1.35
25	C	527	BCR	C23-C22	-5.01	1.35	1.45
23	b	609	CLA	O2D-CGD	5.01	1.45	1.33
23	D	404	CLA	O2D-CGD	5.01	1.45	1.33
23	B	606	CLA	O2D-CGD	5.00	1.45	1.33
23	b	613	CLA	C1D-ND	5.00	1.43	1.37
23	a	404	CLA	C1D-ND	5.00	1.43	1.37
23	b	603	CLA	O2D-CGD	5.00	1.45	1.33
23	b	608	CLA	CHC-C1C	4.99	1.47	1.35
23	B	608	CLA	O2D-CGD	4.99	1.45	1.33
25	C	516	BCR	C23-C22	-4.99	1.35	1.45
23	b	609	CLA	C3C-C2C	4.99	1.47	1.36
23	B	607	CLA	CHC-C1C	4.99	1.47	1.35
23	D	405	CLA	O2D-CGD	4.99	1.45	1.33
23	c	505	CLA	C1D-ND	4.99	1.43	1.37
23	C	505	CLA	O2D-CGD	4.99	1.45	1.33
23	a	405	CLA	CHC-C1C	4.98	1.47	1.35
23	b	606	CLA	CHC-C1C	4.98	1.47	1.35
23	c	502	CLA	C1D-ND	4.98	1.43	1.37
23	C	510	CLA	O2D-CGD	4.97	1.45	1.33
23	B	614	CLA	C1D-ND	4.97	1.43	1.37
23	B	611	CLA	C1D-ND	4.97	1.43	1.37
23	B	612	CLA	CHC-C1C	4.96	1.47	1.35
23	C	511	CLA	CHC-C1C	4.96	1.47	1.35
23	a	409	CLA	C1D-ND	4.96	1.43	1.37
23	c	502	CLA	O2D-CGD	4.95	1.45	1.33
23	a	406	CLA	C1D-ND	4.95	1.43	1.37
23	A	407	CLA	C1D-ND	4.95	1.43	1.37
23	B	603	CLA	O2D-CGD	4.95	1.45	1.33
23	B	606	CLA	C3B-C2B	4.94	1.47	1.40
23	c	506	CLA	C3C-C2C	4.94	1.47	1.36
23	B	615	CLA	CHC-C1C	4.93	1.47	1.35
23	B	613	CLA	CHC-C1C	4.93	1.47	1.35
23	a	405	CLA	O2D-CGD	4.93	1.45	1.33
24	A	406	PHO	O2D-CGD	4.92	1.45	1.33
23	B	616	CLA	CHC-C1C	4.92	1.47	1.35
23	c	505	CLA	O2D-CGD	4.92	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	605	CLA	O2D-CGD	4.91	1.45	1.33
23	D	404	CLA	CHC-C1C	4.91	1.47	1.35
23	c	504	CLA	C1D-ND	4.91	1.43	1.37
23	b	613	CLA	O2D-CGD	4.90	1.45	1.33
23	b	616	CLA	CHC-C1C	4.90	1.47	1.35
23	B	602	CLA	C1D-ND	4.90	1.43	1.37
23	B	613	CLA	O2D-CGD	4.90	1.45	1.33
23	B	615	CLA	O2D-CGD	4.90	1.45	1.33
23	c	506	CLA	C1D-ND	4.90	1.43	1.37
23	C	512	CLA	C3C-C2C	4.89	1.47	1.36
23	C	505	CLA	CHC-C1C	4.89	1.47	1.35
23	a	409	CLA	O2D-CGD	4.89	1.45	1.33
23	b	612	CLA	O2D-CGD	4.89	1.45	1.33
23	C	507	CLA	C1D-ND	4.89	1.43	1.37
25	C	515	BCR	C23-C22	-4.88	1.35	1.45
23	B	612	CLA	C3C-C2C	4.88	1.47	1.36
23	b	615	CLA	CHC-C1C	4.88	1.47	1.35
23	B	615	CLA	C1D-ND	4.88	1.43	1.37
23	b	604	CLA	O2D-CGD	4.87	1.45	1.33
23	C	503	CLA	O2D-CGD	4.87	1.45	1.33
23	b	607	CLA	O2D-CGD	4.87	1.45	1.33
23	b	615	CLA	O2D-CGD	4.86	1.45	1.33
23	C	509	CLA	CHC-C1C	4.86	1.47	1.35
23	B	607	CLA	C1D-ND	4.86	1.43	1.37
23	c	510	CLA	CHC-C1C	4.86	1.47	1.35
23	c	510	CLA	C1D-ND	4.85	1.43	1.37
25	D	406	BCR	C23-C22	-4.85	1.35	1.45
23	b	605	CLA	O2D-CGD	4.85	1.45	1.33
24	a	407	PHO	O2D-CGD	4.84	1.45	1.33
23	b	607	CLA	C3C-C2C	4.84	1.47	1.36
23	b	610	CLA	O2D-CGD	4.84	1.45	1.33
23	c	513	CLA	O2D-CGD	4.83	1.45	1.33
23	A	405	CLA	O2D-CGD	4.83	1.45	1.33
23	B	609	CLA	O2D-CGD	4.83	1.45	1.33
23	C	509	CLA	O2D-CGD	4.83	1.45	1.33
23	b	611	CLA	C1D-ND	4.83	1.43	1.37
25	c	514	BCR	C23-C22	-4.83	1.35	1.45
23	c	512	CLA	C1D-ND	4.83	1.43	1.37
23	b	607	CLA	CHC-C1C	4.83	1.47	1.35
23	b	608	CLA	O2D-CGD	4.82	1.45	1.33
25	B	618	BCR	C23-C22	-4.82	1.35	1.45
23	d	402	CLA	C3C-C2C	4.82	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	617	CLA	O2D-CGD	4.82	1.45	1.33
23	c	512	CLA	O2D-CGD	4.81	1.44	1.33
23	B	611	CLA	O2D-CGD	4.81	1.44	1.33
23	B	604	CLA	O2D-CGD	4.80	1.44	1.33
24	D	402	PHO	O2D-CGD	4.80	1.44	1.33
23	C	512	CLA	C1D-ND	4.80	1.43	1.37
23	a	404	CLA	O2D-CGD	4.80	1.44	1.33
25	A	408	BCR	C23-C22	-4.79	1.35	1.45
25	h	102	BCR	C23-C22	-4.79	1.35	1.45
23	C	508	CLA	C1D-ND	4.79	1.43	1.37
23	C	511	CLA	O2D-CGD	4.78	1.44	1.33
23	c	507	CLA	O2D-CGD	4.77	1.44	1.33
25	t	101	BCR	C23-C22	-4.77	1.35	1.45
23	D	401	CLA	C1D-ND	4.76	1.43	1.37
23	C	505	CLA	C1D-ND	4.76	1.43	1.37
23	a	406	CLA	O2D-CGD	4.76	1.44	1.33
23	c	503	CLA	CHD-C1D	4.76	1.47	1.38
23	B	617	CLA	C1D-ND	4.75	1.43	1.37
23	B	604	CLA	C1D-ND	4.75	1.43	1.37
24	a	407	PHO	OBD-CAD	4.75	1.28	1.22
23	c	501	CLA	O2D-CGD	4.75	1.44	1.33
23	c	506	CLA	CHC-C1C	4.74	1.47	1.35
23	b	605	CLA	CHC-C1C	4.74	1.47	1.35
23	B	614	CLA	CHC-C1C	4.74	1.47	1.35
23	B	609	CLA	CHC-C1C	4.73	1.47	1.35
23	D	404	CLA	C1D-ND	4.73	1.43	1.37
23	c	501	CLA	CHD-C1D	4.72	1.47	1.38
23	C	506	CLA	O2D-CGD	4.72	1.44	1.33
23	C	508	CLA	O2D-CGD	4.72	1.44	1.33
25	b	617	BCR	C23-C22	-4.72	1.35	1.45
23	c	508	CLA	O2D-CGD	4.72	1.44	1.33
23	b	615	CLA	C1D-ND	4.72	1.43	1.37
23	c	504	CLA	CHC-C1C	4.71	1.47	1.35
23	b	602	CLA	C1D-ND	4.69	1.43	1.37
23	C	513	CLA	O2D-CGD	4.69	1.44	1.33
25	a	410	BCR	C23-C22	-4.67	1.35	1.45
23	d	402	CLA	O2D-CGD	4.67	1.44	1.33
23	b	601	CLA	CHD-C1D	4.67	1.47	1.38
23	C	511	CLA	C1D-ND	4.66	1.43	1.37
23	b	612	CLA	C1D-ND	4.64	1.43	1.37
26	a	413	SQD	O48-C23	4.64	1.46	1.33
23	b	611	CLA	O2D-CGD	4.63	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	607	CLA	O2D-CGD	4.62	1.44	1.33
23	b	608	CLA	C1D-ND	4.61	1.43	1.37
23	A	404	CLA	O2D-CGD	4.61	1.44	1.33
25	b	618	BCR	C23-C22	-4.61	1.36	1.45
23	C	502	CLA	O2D-CGD	4.61	1.44	1.33
23	a	409	CLA	CHD-C1D	4.59	1.47	1.38
23	B	603	CLA	CHD-C1D	4.58	1.47	1.38
36	b	621	HTG	C1'-S1	-4.57	1.75	1.81
23	c	507	CLA	CHD-C1D	4.56	1.47	1.38
25	c	515	BCR	C23-C22	-4.55	1.36	1.45
23	C	514	CLA	O2D-CGD	4.54	1.44	1.33
23	c	503	CLA	O2D-CGD	4.54	1.44	1.33
23	c	511	CLA	O2D-CGD	4.54	1.44	1.33
23	C	503	CLA	CHD-C1D	4.53	1.47	1.38
23	A	405	CLA	C1D-ND	4.53	1.43	1.37
34	z	101	LMG	O8-C28	4.53	1.46	1.33
23	C	507	CLA	CHD-C1D	4.53	1.47	1.38
23	c	511	CLA	CHD-C1D	4.51	1.47	1.38
23	C	508	CLA	CHD-C1D	4.50	1.47	1.38
23	b	601	CLA	O2A-CGA	4.50	1.46	1.33
23	B	609	CLA	C1D-ND	4.49	1.43	1.37
23	B	602	CLA	O2A-CGA	4.48	1.46	1.33
23	b	608	CLA	O2A-CGA	4.47	1.46	1.33
23	C	511	CLA	CHD-C1D	4.47	1.47	1.38
23	d	403	CLA	O2D-CGD	4.46	1.44	1.33
23	C	504	CLA	O2D-CGD	4.45	1.44	1.33
26	D	413	SQD	O47-C7	4.45	1.46	1.34
23	d	402	CLA	O2A-CGA	4.44	1.46	1.33
23	B	608	CLA	O2A-CGA	4.44	1.46	1.33
23	b	606	CLA	O2D-CGD	4.44	1.44	1.33
23	c	509	CLA	CHD-C1D	4.44	1.47	1.38
23	b	611	CLA	CHC-C1C	4.44	1.46	1.35
23	C	513	CLA	CHD-C1D	4.43	1.47	1.38
23	b	610	CLA	CHD-C1D	4.43	1.47	1.38
23	B	608	CLA	C1D-ND	4.41	1.43	1.37
26	f	101	SQD	O47-C7	4.40	1.46	1.34
23	b	611	CLA	O2A-CGA	4.40	1.46	1.33
23	b	614	CLA	C1D-ND	4.40	1.43	1.37
23	b	609	CLA	CHD-C1D	4.40	1.46	1.38
23	a	409	CLA	CHD-C4C	4.39	1.49	1.39
23	C	510	CLA	CHD-C1D	4.39	1.46	1.38
23	B	605	CLA	C1D-ND	4.39	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	d	408	LHG	O7-C7	4.39	1.46	1.34
26	A	411	SQD	O48-C23	4.39	1.46	1.33
23	B	616	CLA	CHD-C1D	4.38	1.46	1.38
23	c	506	CLA	CHD-C1D	4.38	1.46	1.38
23	c	507	CLA	O2A-CGA	4.38	1.46	1.33
23	C	503	CLA	O2A-CGA	4.38	1.46	1.33
26	B	621	SQD	O47-C7	4.38	1.46	1.34
23	C	508	CLA	O2A-CGA	4.37	1.46	1.33
23	c	504	CLA	CHD-C1D	4.37	1.46	1.38
25	Y	101	BCR	C23-C22	-4.37	1.36	1.45
23	a	405	CLA	O2A-CGA	4.37	1.46	1.33
23	D	401	CLA	CHD-C1D	4.37	1.46	1.38
23	b	605	CLA	CHD-C1D	4.37	1.46	1.38
23	B	610	CLA	O2A-CGA	4.36	1.46	1.33
34	C	521	LMG	O8-C28	4.36	1.46	1.33
26	a	413	SQD	O47-C7	4.36	1.46	1.34
23	c	513	CLA	CHD-C1D	4.36	1.46	1.38
23	c	513	CLA	O2A-CGA	4.35	1.46	1.33
23	c	512	CLA	O2A-CGA	4.35	1.46	1.33
23	C	514	CLA	CHD-C1D	4.35	1.46	1.38
23	b	615	CLA	O2A-CGA	4.35	1.46	1.33
34	c	520	LMG	O7-C10	4.34	1.46	1.34
23	A	405	CLA	O2A-CGA	4.34	1.46	1.33
24	A	406	PHO	OBD-CAD	4.34	1.28	1.22
23	A	405	CLA	CHD-C1D	4.34	1.46	1.38
24	a	408	PHO	O2A-CGA	4.34	1.46	1.33
23	c	509	CLA	O2A-CGA	4.34	1.46	1.33
31	E	101	LHG	O8-C23	4.33	1.46	1.33
23	C	502	CLA	CHD-C1D	4.33	1.46	1.38
37	H	102	DGD	O1G-C1A	4.33	1.46	1.33
34	C	521	LMG	O7-C10	4.33	1.46	1.34
23	b	611	CLA	CHD-C1D	4.33	1.46	1.38
23	c	508	CLA	O2A-CGA	4.33	1.46	1.33
31	e	101	LHG	O8-C23	4.32	1.46	1.33
23	C	504	CLA	O2A-CGA	4.32	1.46	1.33
23	B	607	CLA	O2A-CGA	4.32	1.46	1.33
26	B	621	SQD	O48-C23	4.32	1.46	1.33
26	L	102	SQD	O47-C7	4.31	1.46	1.34
34	c	519	LMG	O8-C28	4.30	1.45	1.33
23	b	616	CLA	CHD-C1D	4.30	1.46	1.38
23	C	512	CLA	O2A-CGA	4.30	1.45	1.33
23	c	513	CLA	CHD-C4C	4.30	1.49	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	d	403	CLA	O2A-CGA	4.30	1.45	1.33
23	C	505	CLA	O2A-CGA	4.30	1.45	1.33
37	c	517	DGD	O1G-C1A	4.29	1.45	1.33
23	C	514	CLA	O2A-CGA	4.29	1.45	1.33
23	a	404	CLA	CHD-C1D	4.29	1.46	1.38
23	B	603	CLA	O2A-CGA	4.28	1.45	1.33
23	b	606	CLA	CHD-C1D	4.27	1.46	1.38
23	d	403	CLA	CHD-C1D	4.27	1.46	1.38
23	d	402	CLA	C1D-ND	4.27	1.43	1.37
23	b	612	CLA	O2A-CGA	4.27	1.45	1.33
23	B	614	CLA	O2A-CGA	4.26	1.45	1.33
34	j	101	LMG	O8-C28	4.26	1.45	1.33
23	a	405	CLA	CHD-C1D	4.26	1.46	1.38
31	L	101	LHG	O8-C23	4.26	1.45	1.33
34	C	501	LMG	O7-C10	4.26	1.46	1.34
23	B	610	CLA	C1D-ND	4.25	1.43	1.37
23	C	512	CLA	CHD-C1D	4.25	1.46	1.38
23	D	401	CLA	O2A-CGA	4.25	1.45	1.33
34	C	501	LMG	O8-C28	4.25	1.45	1.33
26	L	102	SQD	O48-C23	4.25	1.45	1.33
23	c	502	CLA	O2A-CGA	4.24	1.45	1.33
26	f	101	SQD	O48-C23	4.24	1.45	1.33
34	c	520	LMG	O8-C28	4.24	1.45	1.33
23	B	616	CLA	C3D-C2D	4.24	1.50	1.39
23	C	513	CLA	O2A-CGA	4.24	1.45	1.33
23	c	510	CLA	CHD-C1D	4.24	1.46	1.38
23	C	505	CLA	CHD-C1D	4.23	1.46	1.38
23	B	604	CLA	CHD-C1D	4.23	1.46	1.38
37	C	517	DGD	O2G-C1B	4.23	1.46	1.34
23	b	604	CLA	CHD-C1D	4.23	1.46	1.38
26	A	409	SQD	O48-C23	4.23	1.45	1.33
23	C	506	CLA	CHD-C1D	4.22	1.46	1.38
23	c	511	CLA	O2A-CGA	4.22	1.45	1.33
34	a	417	LMG	O7-C10	4.22	1.46	1.34
34	C	520	LMG	O8-C28	4.22	1.45	1.33
23	C	509	CLA	C1D-ND	4.22	1.43	1.37
26	A	411	SQD	O47-C7	4.22	1.46	1.34
23	B	610	CLA	CHD-C1D	4.21	1.46	1.38
23	c	506	CLA	O2A-CGA	4.21	1.45	1.33
40	V	202	HEC	CBB-CAB	-4.21	1.33	1.49
23	B	613	CLA	CHD-C1D	4.21	1.46	1.38
40	V	202	HEC	CBC-CAC	-4.21	1.33	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	613	CLA	CHD-C1D	4.21	1.46	1.38
23	C	511	CLA	CHD-C4C	4.21	1.48	1.39
34	m	101	LMG	O8-C28	4.21	1.45	1.33
23	B	606	CLA	CHD-C1D	4.20	1.46	1.38
23	b	614	CLA	CHD-C1D	4.20	1.46	1.38
34	B	622	LMG	O8-C28	4.20	1.45	1.33
23	b	609	CLA	CHD-C4C	4.20	1.48	1.39
23	b	615	CLA	CHD-C1D	4.20	1.46	1.38
23	C	507	CLA	O2A-CGA	4.20	1.45	1.33
23	c	503	CLA	O2A-CGA	4.19	1.45	1.33
40	v	201	HEC	CBC-CAC	-4.19	1.33	1.49
23	a	405	CLA	C3D-C2D	4.19	1.50	1.39
23	b	614	CLA	O2A-CGA	4.19	1.45	1.33
23	B	605	CLA	O2A-CGA	4.19	1.45	1.33
23	a	409	CLA	O2A-CGA	4.19	1.45	1.33
23	C	511	CLA	O2A-CGA	4.18	1.45	1.33
25	B	619	BCR	C23-C22	-4.18	1.37	1.45
37	c	516	DGD	O1G-C1A	4.18	1.45	1.33
31	b	630	LHG	O8-C23	4.18	1.45	1.33
23	b	601	CLA	CHD-C4C	4.18	1.48	1.39
23	c	507	CLA	CHD-C4C	4.18	1.48	1.39
31	e	101	LHG	O7-C7	4.17	1.46	1.34
23	c	510	CLA	CHD-C4C	4.16	1.48	1.39
23	b	616	CLA	C3D-C2D	4.16	1.50	1.39
23	c	512	CLA	CHD-C1D	4.16	1.46	1.38
31	D	409	LHG	O7-C7	4.16	1.46	1.34
23	B	616	CLA	O2A-CGA	4.16	1.45	1.33
34	J	101	LMG	O8-C28	4.16	1.45	1.33
40	v	201	HEC	CBB-CAB	-4.16	1.33	1.49
34	a	417	LMG	O8-C28	4.15	1.45	1.33
23	B	613	CLA	C1D-ND	4.15	1.42	1.37
26	a	411	SQD	O48-C23	4.15	1.45	1.33
23	B	602	CLA	CHD-C1D	4.14	1.46	1.38
23	B	607	CLA	CHD-C1D	4.14	1.46	1.38
23	C	502	CLA	O2A-CGA	4.14	1.45	1.33
23	B	606	CLA	O2A-CGA	4.13	1.45	1.33
23	B	612	CLA	O2A-CGA	4.13	1.45	1.33
24	A	406	PHO	O2A-CGA	4.13	1.45	1.33
23	C	508	CLA	CHD-C4C	4.13	1.48	1.39
23	D	405	CLA	O2A-CGA	4.13	1.45	1.33
23	b	609	CLA	O2A-CGA	4.13	1.45	1.33
34	Z	101	LMG	O7-C10	4.13	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	605	CLA	CHD-C1D	4.12	1.46	1.38
31	E	101	LHG	O7-C7	4.12	1.45	1.34
23	D	405	CLA	CHD-C1D	4.12	1.46	1.38
23	b	613	CLA	O2A-CGA	4.12	1.45	1.33
31	d	408	LHG	O8-C23	4.12	1.45	1.33
23	B	617	CLA	O2A-CGA	4.12	1.45	1.33
23	c	505	CLA	O2A-CGA	4.11	1.45	1.33
23	A	407	CLA	CHD-C1D	4.11	1.46	1.38
23	b	602	CLA	CHD-C1D	4.11	1.46	1.38
31	D	409	LHG	O8-C23	4.11	1.45	1.33
23	b	602	CLA	O2A-CGA	4.11	1.45	1.33
23	B	608	CLA	CHD-C1D	4.11	1.46	1.38
23	b	603	CLA	CHD-C1D	4.10	1.46	1.38
34	C	520	LMG	O7-C10	4.10	1.45	1.34
23	B	603	CLA	CHD-C4C	4.10	1.48	1.39
31	b	630	LHG	O7-C7	4.09	1.45	1.34
23	B	615	CLA	CHD-C4C	4.09	1.48	1.39
23	b	613	CLA	C3D-C2D	4.09	1.50	1.39
23	a	406	CLA	CHD-C1D	4.09	1.46	1.38
23	B	616	CLA	OBD-CAD	4.08	1.29	1.22
23	C	510	CLA	CHD-C4C	4.08	1.48	1.39
34	c	519	LMG	O7-C10	4.08	1.45	1.34
23	b	606	CLA	O2A-CGA	4.08	1.45	1.33
23	c	505	CLA	CHD-C1D	4.08	1.46	1.38
26	a	411	SQD	O47-C7	4.07	1.45	1.34
37	C	518	DGD	O1G-C1A	4.07	1.45	1.33
23	c	502	CLA	CHD-C1D	4.07	1.46	1.38
23	A	407	CLA	O2A-CGA	4.07	1.45	1.33
37	H	102	DGD	O2G-C1B	4.06	1.45	1.34
23	B	615	CLA	O2A-CGA	4.06	1.45	1.33
23	C	504	CLA	CHD-C4C	4.06	1.48	1.39
23	c	501	CLA	CHD-C4C	4.05	1.48	1.39
23	b	607	CLA	O2A-CGA	4.05	1.45	1.33
23	B	611	CLA	O2A-CGA	4.05	1.45	1.33
23	C	506	CLA	O2A-CGA	4.05	1.45	1.33
23	b	608	CLA	CHD-C1D	4.05	1.46	1.38
31	D	408	LHG	O7-C7	4.05	1.45	1.34
31	d	407	LHG	O7-C7	4.04	1.45	1.34
23	b	612	CLA	CHD-C1D	4.04	1.46	1.38
23	c	512	CLA	C3D-C2D	4.04	1.50	1.39
37	c	518	DGD	O1G-C1A	4.04	1.45	1.33
23	b	616	CLA	O2A-CGA	4.04	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	508	CLA	CHD-C1D	4.04	1.46	1.38
23	B	609	CLA	O2A-CGA	4.04	1.45	1.33
23	C	510	CLA	O2A-CGA	4.04	1.45	1.33
23	c	503	CLA	CHD-C4C	4.04	1.48	1.39
23	B	611	CLA	OBD-CAD	4.03	1.29	1.22
23	c	508	CLA	C3D-C2D	4.03	1.50	1.39
23	C	509	CLA	O2A-CGA	4.03	1.45	1.33
37	h	103	DGD	O2G-C1B	4.02	1.45	1.34
23	B	603	CLA	C3D-C2D	4.02	1.50	1.39
23	c	504	CLA	O2A-CGA	4.02	1.45	1.33
23	C	507	CLA	CHD-C4C	4.02	1.48	1.39
34	z	101	LMG	O7-C10	4.02	1.45	1.34
23	b	605	CLA	O2A-CGA	4.00	1.45	1.33
23	B	613	CLA	C3D-C2D	4.00	1.50	1.39
37	C	519	DGD	O1G-C1A	4.00	1.45	1.33
23	B	617	CLA	C3D-C2D	4.00	1.50	1.39
23	B	613	CLA	O2A-CGA	3.99	1.45	1.33
23	C	509	CLA	C3D-C2D	3.99	1.50	1.39
23	C	503	CLA	CHD-C4C	3.99	1.48	1.39
23	d	403	CLA	C3D-C2D	3.98	1.50	1.39
23	C	509	CLA	CHD-C1D	3.98	1.46	1.38
23	B	614	CLA	CHD-C1D	3.98	1.46	1.38
23	C	508	CLA	C3D-C2D	3.98	1.50	1.39
23	A	404	CLA	CHD-C4C	3.98	1.48	1.39
23	B	606	CLA	C3D-C2D	3.98	1.50	1.39
23	c	506	CLA	CHD-C4C	3.97	1.48	1.39
23	a	406	CLA	O2A-CGA	3.97	1.45	1.33
23	C	504	CLA	CHD-C1D	3.97	1.46	1.38
23	a	406	CLA	C3D-C2D	3.97	1.50	1.39
23	B	610	CLA	C3D-C2D	3.97	1.50	1.39
23	C	512	CLA	CHD-C4C	3.97	1.48	1.39
23	c	501	CLA	C3D-C2D	3.97	1.50	1.39
23	C	512	CLA	C3D-C2D	3.97	1.50	1.39
23	C	514	CLA	C3D-C2D	3.97	1.50	1.39
23	A	407	CLA	CHD-C4C	3.96	1.48	1.39
23	D	404	CLA	CHD-C4C	3.96	1.48	1.39
23	C	514	CLA	CHD-C4C	3.96	1.48	1.39
26	D	413	SQD	O48-C23	3.95	1.44	1.33
23	c	511	CLA	OBD-CAD	3.95	1.29	1.22
23	C	509	CLA	OBD-CAD	3.95	1.29	1.22
23	B	609	CLA	CHD-C1D	3.95	1.46	1.38
23	B	611	CLA	CHD-C1D	3.95	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	602	CLA	CHD-C4C	3.95	1.48	1.39
23	a	404	CLA	CHD-C4C	3.94	1.48	1.39
23	c	510	CLA	O2A-CGA	3.94	1.44	1.33
23	B	605	CLA	OBD-CAD	3.94	1.29	1.22
23	C	506	CLA	CHD-C4C	3.94	1.48	1.39
23	b	610	CLA	CHD-C4C	3.94	1.48	1.39
23	c	501	CLA	O2A-CGA	3.93	1.44	1.33
23	b	601	CLA	C3D-C2D	3.93	1.49	1.39
37	c	516	DGD	O2G-C1B	3.93	1.45	1.34
23	C	511	CLA	OBD-CAD	3.93	1.29	1.22
23	B	614	CLA	C3D-C2D	3.93	1.49	1.39
23	B	617	CLA	CHD-C1D	3.92	1.46	1.38
23	B	615	CLA	CHD-C1D	3.92	1.46	1.38
23	c	504	CLA	C3D-C2D	3.92	1.49	1.39
23	B	611	CLA	C3D-C2D	3.92	1.49	1.39
23	d	402	CLA	CHD-C1D	3.92	1.46	1.38
23	B	608	CLA	CHD-C4C	3.92	1.48	1.39
23	C	505	CLA	CHD-C4C	3.92	1.48	1.39
23	B	607	CLA	C3D-C2D	3.91	1.49	1.39
23	B	607	CLA	CHD-C4C	3.91	1.48	1.39
23	B	604	CLA	O2A-CGA	3.91	1.44	1.33
23	C	502	CLA	CHD-C4C	3.90	1.48	1.39
23	C	513	CLA	CHD-C4C	3.90	1.48	1.39
37	C	519	DGD	O2G-C1B	3.90	1.45	1.34
23	d	403	CLA	CHD-C4C	3.90	1.48	1.39
23	B	615	CLA	C3D-C2D	3.89	1.49	1.39
34	B	622	LMG	O7-C10	3.89	1.45	1.34
23	b	605	CLA	C3D-C2D	3.89	1.49	1.39
23	b	615	CLA	CHD-C4C	3.89	1.48	1.39
23	b	603	CLA	OBD-CAD	3.88	1.29	1.22
23	b	601	CLA	OBD-CAD	3.88	1.29	1.22
23	B	602	CLA	C3D-C2D	3.88	1.49	1.39
23	b	614	CLA	OBD-CAD	3.88	1.29	1.22
23	D	404	CLA	O2A-CGA	3.87	1.44	1.33
24	a	407	PHO	C3C-C2C	3.87	1.49	1.37
23	b	611	CLA	C3D-C2D	3.87	1.49	1.39
23	b	607	CLA	C1D-ND	3.87	1.42	1.37
23	b	607	CLA	CHD-C1D	3.87	1.45	1.38
23	b	602	CLA	C3D-C2D	3.86	1.49	1.39
24	a	408	PHO	C3C-C2C	3.86	1.49	1.37
23	b	606	CLA	CHD-C4C	3.86	1.48	1.39
23	c	509	CLA	CHD-C4C	3.86	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	A	404	CLA	CHD-C1D	3.86	1.45	1.38
34	m	101	LMG	O7-C10	3.86	1.45	1.34
23	c	511	CLA	CHD-C4C	3.86	1.48	1.39
23	b	604	CLA	O2A-CGA	3.86	1.44	1.33
23	B	604	CLA	C3D-C2D	3.85	1.49	1.39
37	c	518	DGD	O2G-C1B	3.85	1.45	1.34
23	C	511	CLA	C3D-C2D	3.85	1.49	1.39
23	c	503	CLA	C3D-C2D	3.85	1.49	1.39
37	C	518	DGD	O2G-C1B	3.85	1.45	1.34
37	h	103	DGD	O1G-C1A	3.85	1.44	1.33
23	c	506	CLA	C3D-C2D	3.85	1.49	1.39
23	b	608	CLA	CHD-C4C	3.85	1.48	1.39
23	c	512	CLA	CHD-C4C	3.85	1.48	1.39
23	B	612	CLA	OBD-CAD	3.84	1.29	1.22
23	A	404	CLA	C3D-C2D	3.84	1.49	1.39
23	C	507	CLA	C3D-C2D	3.84	1.49	1.39
23	A	405	CLA	CHD-C4C	3.84	1.48	1.39
23	a	406	CLA	CHD-C4C	3.83	1.48	1.39
23	b	608	CLA	C3D-C2D	3.83	1.49	1.39
37	c	517	DGD	O2G-C1B	3.83	1.45	1.34
23	b	603	CLA	CHD-C4C	3.83	1.48	1.39
36	b	623	HTG	C1'-S1	-3.83	1.76	1.81
23	c	507	CLA	C3D-C2D	3.83	1.49	1.39
23	B	610	CLA	CHD-C4C	3.82	1.48	1.39
31	d	407	LHG	O8-C23	3.82	1.44	1.33
23	B	602	CLA	OBD-CAD	3.82	1.29	1.22
23	c	513	CLA	C3D-C2D	3.82	1.49	1.39
23	b	609	CLA	C3D-C2D	3.82	1.49	1.39
23	a	405	CLA	CHD-C4C	3.82	1.47	1.39
23	A	405	CLA	C3D-C2D	3.81	1.49	1.39
23	a	409	CLA	C3D-C2D	3.81	1.49	1.39
23	D	401	CLA	C3D-C2D	3.81	1.49	1.39
23	c	504	CLA	CHD-C4C	3.81	1.47	1.39
23	B	603	CLA	OBD-CAD	3.81	1.29	1.22
23	B	604	CLA	CHD-C4C	3.81	1.47	1.39
23	C	505	CLA	C3D-C2D	3.80	1.49	1.39
23	b	610	CLA	C3D-C2D	3.80	1.49	1.39
23	b	605	CLA	CHD-C4C	3.80	1.47	1.39
23	A	407	CLA	C3D-C2D	3.80	1.49	1.39
23	b	609	CLA	OBD-CAD	3.80	1.29	1.22
23	c	505	CLA	CHD-C4C	3.80	1.47	1.39
23	b	603	CLA	O2A-CGA	3.80	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	D	401	CLA	CHD-C4C	3.79	1.47	1.39
23	D	405	CLA	OBD-CAD	3.79	1.29	1.22
23	a	404	CLA	C3D-C2D	3.79	1.49	1.39
23	b	605	CLA	OBD-CAD	3.79	1.29	1.22
36	b	626	HTG	C1'-S1	-3.79	1.76	1.81
23	C	502	CLA	C3D-C2D	3.79	1.49	1.39
23	C	512	CLA	OBD-CAD	3.78	1.29	1.22
23	C	513	CLA	C3D-C2D	3.78	1.49	1.39
23	b	614	CLA	CHD-C4C	3.78	1.47	1.39
26	A	409	SQD	O47-C7	3.78	1.45	1.34
23	C	510	CLA	OBD-CAD	3.78	1.29	1.22
23	B	612	CLA	C3D-C2D	3.78	1.49	1.39
23	b	612	CLA	C3D-C2D	3.77	1.49	1.39
23	C	503	CLA	C3D-C2D	3.77	1.49	1.39
23	b	611	CLA	CHD-C4C	3.77	1.47	1.39
23	d	402	CLA	C3D-C2D	3.77	1.49	1.39
23	c	502	CLA	CHD-C4C	3.76	1.47	1.39
23	d	402	CLA	CHD-C4C	3.76	1.47	1.39
23	C	510	CLA	C3D-C2D	3.76	1.49	1.39
36	B	624	HTG	C1'-S1	-3.76	1.76	1.81
23	b	607	CLA	C3D-C2D	3.76	1.49	1.39
23	b	608	CLA	OBD-CAD	3.76	1.29	1.22
23	b	613	CLA	CHD-C4C	3.75	1.47	1.39
23	D	405	CLA	CHD-C4C	3.74	1.47	1.39
23	B	609	CLA	C3D-C2D	3.74	1.49	1.39
23	D	404	CLA	CHD-C1D	3.74	1.45	1.38
31	L	101	LHG	O7-C7	3.73	1.44	1.34
23	B	606	CLA	CHD-C4C	3.73	1.47	1.39
23	c	509	CLA	OBD-CAD	3.73	1.28	1.22
23	B	602	CLA	CHD-C4C	3.73	1.47	1.39
31	d	406	LHG	O8-C23	3.73	1.44	1.33
23	b	612	CLA	CHD-C4C	3.73	1.47	1.39
23	b	607	CLA	CHD-C4C	3.72	1.47	1.39
23	b	616	CLA	CHD-C4C	3.72	1.47	1.39
23	c	502	CLA	C3D-C2D	3.72	1.49	1.39
23	b	615	CLA	C3D-C2D	3.72	1.49	1.39
23	B	608	CLA	C3D-C2D	3.71	1.49	1.39
23	B	614	CLA	OBD-CAD	3.70	1.28	1.22
23	c	509	CLA	C3D-C2D	3.70	1.49	1.39
23	a	405	CLA	OBD-CAD	3.70	1.28	1.22
23	B	616	CLA	CHD-C4C	3.70	1.47	1.39
23	b	610	CLA	OBD-CAD	3.70	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	j	101	LMG	O7-C10	3.69	1.44	1.34
23	c	503	CLA	OBD-CAD	3.69	1.28	1.22
23	C	506	CLA	OBD-CAD	3.69	1.28	1.22
23	c	504	CLA	OBD-CAD	3.68	1.28	1.22
31	A	415	LHG	O7-C7	3.68	1.44	1.34
23	C	503	CLA	OBD-CAD	3.68	1.28	1.22
23	C	504	CLA	C3D-C2D	3.67	1.49	1.39
23	c	508	CLA	CHD-C4C	3.67	1.47	1.39
37	C	517	DGD	O1G-C1A	3.67	1.44	1.33
23	b	604	CLA	CHD-C4C	3.66	1.47	1.39
23	b	610	CLA	O2A-CGA	3.66	1.44	1.33
23	c	507	CLA	OBD-CAD	3.66	1.28	1.22
23	a	404	CLA	OBD-CAD	3.66	1.28	1.22
23	B	612	CLA	CHD-C4C	3.66	1.47	1.39
23	B	614	CLA	CHD-C4C	3.65	1.47	1.39
24	a	407	PHO	O2A-CGA	3.65	1.44	1.33
23	C	505	CLA	OBD-CAD	3.65	1.28	1.22
23	D	404	CLA	C3D-C2D	3.64	1.49	1.39
23	c	506	CLA	OBD-CAD	3.64	1.28	1.22
23	A	405	CLA	OBD-CAD	3.64	1.28	1.22
23	b	616	CLA	OBD-CAD	3.64	1.28	1.22
23	D	401	CLA	OBD-CAD	3.64	1.28	1.22
23	b	603	CLA	C3D-C2D	3.63	1.49	1.39
23	B	611	CLA	CHD-C4C	3.63	1.47	1.39
23	C	513	CLA	OBD-CAD	3.62	1.28	1.22
23	d	402	CLA	OBD-CAD	3.62	1.28	1.22
23	c	513	CLA	OBD-CAD	3.62	1.28	1.22
31	D	408	LHG	O8-C23	3.62	1.43	1.33
23	A	407	CLA	OBD-CAD	3.62	1.28	1.22
23	b	606	CLA	C3D-C2D	3.61	1.49	1.39
23	b	614	CLA	C3D-C2D	3.61	1.49	1.39
23	B	617	CLA	CHD-C4C	3.60	1.47	1.39
23	B	613	CLA	CHD-C4C	3.60	1.47	1.39
23	D	404	CLA	OBD-CAD	3.59	1.28	1.22
23	c	508	CLA	OBD-CAD	3.59	1.28	1.22
36	b	622	HTG	C1'-S1	-3.58	1.76	1.81
23	D	405	CLA	C3D-C2D	3.58	1.48	1.39
31	A	415	LHG	O8-C23	3.58	1.43	1.33
23	B	617	CLA	OBD-CAD	3.57	1.28	1.22
23	c	510	CLA	OBD-CAD	3.57	1.28	1.22
24	D	402	PHO	O2A-CGA	3.56	1.43	1.33
23	c	512	CLA	OBD-CAD	3.56	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	D	402	PHO	C3C-C2C	3.55	1.48	1.37
23	c	511	CLA	C3D-C2D	3.54	1.48	1.39
23	b	613	CLA	OBD-CAD	3.54	1.28	1.22
36	B	630	HTG	C1'-S1	-3.53	1.76	1.81
23	b	602	CLA	OBD-CAD	3.53	1.28	1.22
23	a	406	CLA	OBD-CAD	3.53	1.28	1.22
23	A	404	CLA	OBD-CAD	3.52	1.28	1.22
23	a	404	CLA	O2A-CGA	3.52	1.43	1.33
23	B	608	CLA	OBD-CAD	3.52	1.28	1.22
23	b	604	CLA	OBD-CAD	3.51	1.28	1.22
36	h	101	HTG	C1'-S1	-3.49	1.77	1.81
23	c	505	CLA	OBD-CAD	3.49	1.28	1.22
34	J	101	LMG	O7-C10	3.49	1.44	1.34
23	B	610	CLA	OBD-CAD	3.49	1.28	1.22
23	B	613	CLA	OBD-CAD	3.49	1.28	1.22
23	c	502	CLA	OBD-CAD	3.48	1.28	1.22
36	c	522	HTG	C1'-S1	-3.48	1.77	1.81
23	b	615	CLA	OBD-CAD	3.48	1.28	1.22
23	C	507	CLA	OBD-CAD	3.47	1.28	1.22
38	e	103	HEM	C4D-ND	-3.47	1.34	1.40
23	C	504	CLA	OBD-CAD	3.47	1.28	1.22
31	d	406	LHG	O7-C7	3.47	1.44	1.34
23	B	605	CLA	CHD-C4C	3.47	1.47	1.39
23	c	505	CLA	C3D-C2D	3.46	1.48	1.39
23	B	604	CLA	OBD-CAD	3.45	1.28	1.22
38	E	103	HEM	C1B-NB	-3.45	1.34	1.40
23	B	612	CLA	CHD-C1D	3.45	1.45	1.38
40	v	201	HEC	C2B-C3B	-3.44	1.37	1.40
36	b	625	HTG	C1'-S1	-3.44	1.77	1.81
23	b	612	CLA	OBD-CAD	3.44	1.28	1.22
23	b	611	CLA	OBD-CAD	3.41	1.28	1.22
38	E	103	HEM	C4D-ND	-3.40	1.34	1.40
24	A	406	PHO	CHA-CBD	-3.40	1.48	1.52
24	A	406	PHO	C3C-C2C	3.40	1.47	1.37
23	c	510	CLA	C3D-C2D	3.39	1.48	1.39
23	b	604	CLA	C3D-C2D	3.38	1.48	1.39
23	C	508	CLA	OBD-CAD	3.37	1.28	1.22
23	B	609	CLA	CHD-C4C	3.37	1.46	1.39
23	d	403	CLA	OBD-CAD	3.36	1.28	1.22
23	B	605	CLA	C3D-C2D	3.36	1.48	1.39
23	A	404	CLA	O2A-CGA	3.35	1.43	1.33
23	a	409	CLA	OBD-CAD	3.34	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	C	523	HTG	C1'-S1	-3.34	1.77	1.81
36	B	626	HTG	C1'-S1	-3.32	1.77	1.81
23	B	609	CLA	OBD-CAD	3.32	1.28	1.22
23	b	607	CLA	OBD-CAD	3.32	1.28	1.22
23	C	509	CLA	CHD-C4C	3.30	1.46	1.39
38	e	103	HEM	C1B-NB	-3.29	1.34	1.40
36	B	629	HTG	C1'-S1	-3.29	1.77	1.81
23	C	514	CLA	OBD-CAD	3.28	1.28	1.22
23	b	606	CLA	OBD-CAD	3.27	1.28	1.22
23	B	606	CLA	OBD-CAD	3.26	1.28	1.22
23	B	615	CLA	OBD-CAD	3.24	1.28	1.22
23	B	607	CLA	OBD-CAD	3.24	1.28	1.22
23	C	502	CLA	OBD-CAD	3.22	1.28	1.22
24	D	402	PHO	CHA-CBD	-3.21	1.48	1.52
23	D	401	CLA	C1C-C2C	3.21	1.50	1.44
23	C	506	CLA	C3D-C2D	3.20	1.47	1.39
40	V	202	HEC	C2B-C3B	-3.20	1.37	1.40
23	c	501	CLA	OBD-CAD	3.16	1.27	1.22
23	C	510	CLA	C1C-C2C	3.16	1.50	1.44
36	D	412	HTG	C1'-S1	-3.12	1.77	1.81
36	c	521	HTG	C1'-S1	-3.10	1.77	1.81
24	a	408	PHO	CHA-CBD	-3.09	1.48	1.52
23	D	404	CLA	C1C-C2C	3.05	1.50	1.44
23	B	608	CLA	C1C-C2C	3.04	1.50	1.44
24	D	402	PHO	C3A-C2A	-3.03	1.51	1.54
23	c	505	CLA	C1B-CHB	2.99	1.49	1.41
23	D	405	CLA	C1C-C2C	2.98	1.50	1.44
36	B	625	HTG	C1'-S1	-2.97	1.77	1.81
23	C	511	CLA	C4C-C3C	2.97	1.50	1.45
23	C	514	CLA	C1C-C2C	2.97	1.50	1.44
38	e	103	HEM	FE-NB	2.94	2.11	1.96
40	v	201	HEC	C4B-C3B	2.92	1.48	1.43
23	c	508	CLA	C1C-C2C	2.88	1.50	1.44
38	E	103	HEM	FE-NB	2.88	2.11	1.96
23	c	511	CLA	C1B-CHB	2.87	1.49	1.41
23	b	611	CLA	C1B-CHB	2.87	1.49	1.41
23	c	503	CLA	C4C-C3C	2.84	1.49	1.45
23	b	613	CLA	C1C-C2C	2.84	1.50	1.44
23	D	405	CLA	C4B-CHC	2.84	1.48	1.41
23	C	513	CLA	C1C-C2C	2.83	1.50	1.44
29	a	415	PL9	C6-C5	2.82	1.50	1.35
23	c	501	CLA	C4D-CHA	2.82	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	f	101	SQD	C6-S	-2.82	1.67	1.77
23	b	604	CLA	C1C-C2C	2.80	1.50	1.44
23	D	401	CLA	C4B-CHC	2.80	1.48	1.41
23	c	504	CLA	C4C-C3C	2.79	1.49	1.45
23	b	603	CLA	C1C-C2C	2.79	1.50	1.44
26	D	413	SQD	C6-S	-2.79	1.67	1.77
23	B	613	CLA	C1C-C2C	2.79	1.50	1.44
26	A	411	SQD	C6-S	-2.79	1.67	1.77
23	d	403	CLA	C4B-CHC	2.79	1.48	1.41
23	B	612	CLA	C1C-C2C	2.78	1.49	1.44
23	b	613	CLA	C4B-CHC	2.78	1.48	1.41
23	B	608	CLA	C4B-CHC	2.78	1.48	1.41
23	B	615	CLA	C4C-C3C	2.78	1.49	1.45
23	c	507	CLA	C1C-C2C	2.77	1.49	1.44
23	D	404	CLA	C4C-C3C	2.77	1.49	1.45
23	a	409	CLA	C4C-C3C	2.75	1.49	1.45
23	B	608	CLA	C1B-NB	-2.75	1.32	1.35
23	c	505	CLA	C1C-C2C	2.75	1.49	1.44
23	b	610	CLA	C4B-CHC	2.75	1.48	1.41
23	B	608	CLA	C4D-CHA	2.74	1.48	1.38
23	C	511	CLA	C4D-CHA	2.74	1.48	1.38
23	C	512	CLA	C1C-C2C	2.74	1.49	1.44
29	A	413	PL9	C6-C5	2.74	1.49	1.35
23	b	604	CLA	C4D-CHA	2.73	1.48	1.38
23	A	404	CLA	C1C-C2C	2.73	1.49	1.44
23	b	616	CLA	C4D-CHA	2.73	1.48	1.38
23	A	404	CLA	C4B-CHC	2.73	1.48	1.41
23	b	610	CLA	C4C-C3C	2.73	1.49	1.45
23	c	512	CLA	C4D-CHA	2.72	1.48	1.38
26	L	102	SQD	C6-S	-2.72	1.67	1.77
23	B	611	CLA	C4B-CHC	2.72	1.48	1.41
23	B	605	CLA	C1C-C2C	2.72	1.49	1.44
23	C	504	CLA	C4D-CHA	2.72	1.48	1.38
23	b	607	CLA	C1C-C2C	2.72	1.49	1.44
23	C	504	CLA	C4C-C3C	2.71	1.49	1.45
23	B	606	CLA	C1C-C2C	2.71	1.49	1.44
23	C	506	CLA	C1C-C2C	2.71	1.49	1.44
23	C	508	CLA	C1C-C2C	2.70	1.49	1.44
23	C	508	CLA	C4D-CHA	2.69	1.48	1.38
23	b	613	CLA	C4D-CHA	2.69	1.48	1.38
23	b	615	CLA	C4D-CHA	2.68	1.47	1.38
26	A	409	SQD	C6-S	-2.68	1.67	1.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	607	CLA	C4D-CHA	2.67	1.47	1.38
23	c	507	CLA	C4D-CHA	2.67	1.47	1.38
23	B	605	CLA	C4D-CHA	2.67	1.47	1.38
23	C	505	CLA	C1B-CHB	2.67	1.48	1.41
23	C	502	CLA	C4D-CHA	2.67	1.47	1.38
23	c	512	CLA	C4B-CHC	2.66	1.48	1.41
23	b	611	CLA	C4D-CHA	2.66	1.47	1.38
23	D	404	CLA	C3D-C4D	-2.66	1.38	1.44
23	C	506	CLA	C1B-CHB	2.66	1.48	1.41
23	C	505	CLA	C1C-C2C	2.65	1.49	1.44
26	B	621	SQD	C6-S	-2.65	1.67	1.77
23	a	404	CLA	C1C-C2C	2.64	1.49	1.44
40	V	202	HEC	C4B-C3B	2.64	1.47	1.43
23	a	409	CLA	C4D-CHA	2.64	1.47	1.38
23	B	617	CLA	C4D-CHA	2.63	1.47	1.38
23	B	603	CLA	C4C-C3C	2.63	1.49	1.45
23	c	511	CLA	C4D-CHA	2.62	1.47	1.38
23	B	614	CLA	C1C-C2C	2.62	1.49	1.44
23	b	602	CLA	C1C-C2C	2.62	1.49	1.44
26	a	413	SQD	C6-S	-2.62	1.67	1.77
23	c	513	CLA	C1C-C2C	2.61	1.49	1.44
23	C	509	CLA	C1B-CHB	2.61	1.48	1.41
23	C	505	CLA	C4D-CHA	2.61	1.47	1.38
23	D	401	CLA	C4D-CHA	2.61	1.47	1.38
23	b	610	CLA	C4D-CHA	2.61	1.47	1.38
23	C	506	CLA	C3D-C4D	-2.61	1.38	1.44
23	B	612	CLA	C1B-CHB	2.61	1.48	1.41
23	a	409	CLA	C1C-C2C	2.60	1.49	1.44
23	A	407	CLA	C4D-CHA	2.59	1.47	1.38
26	a	411	SQD	C6-S	-2.59	1.67	1.77
23	C	513	CLA	C4B-CHC	2.59	1.48	1.41
23	b	608	CLA	C3D-C4D	-2.59	1.38	1.44
34	Z	101	LMG	O8-C28	2.59	1.46	1.33
23	B	608	CLA	C4C-C3C	2.58	1.49	1.45
23	c	504	CLA	C4D-CHA	2.58	1.47	1.38
23	b	610	CLA	C1C-C2C	2.58	1.49	1.44
23	B	613	CLA	C4D-CHA	2.58	1.47	1.38
23	c	509	CLA	C1B-CHB	2.58	1.48	1.41
23	c	509	CLA	C1C-C2C	2.58	1.49	1.44
23	B	602	CLA	C1C-C2C	2.58	1.49	1.44
23	b	613	CLA	C1B-CHB	2.58	1.48	1.41
23	B	613	CLA	C1B-NB	-2.58	1.32	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	606	CLA	C4D-CHA	2.57	1.47	1.38
23	c	510	CLA	C1B-CHB	2.57	1.48	1.41
23	b	609	CLA	C1B-CHB	2.57	1.48	1.41
23	B	616	CLA	C4D-CHA	2.57	1.47	1.38
23	C	503	CLA	C1B-CHB	2.57	1.48	1.41
23	c	507	CLA	C4B-CHC	2.57	1.48	1.41
23	B	604	CLA	C4D-CHA	2.56	1.47	1.38
23	B	609	CLA	C4D-CHA	2.56	1.47	1.38
35	D	403	LMT	O1'-C1'	2.56	1.44	1.40
23	B	614	CLA	C4C-C3C	2.56	1.49	1.45
23	b	610	CLA	C1B-CHB	2.56	1.48	1.41
23	b	607	CLA	C1B-CHB	2.56	1.48	1.41
23	c	501	CLA	C4C-C3C	2.56	1.49	1.45
23	C	507	CLA	C4D-CHA	2.55	1.47	1.38
23	B	604	CLA	C4C-C3C	2.55	1.49	1.45
23	c	508	CLA	C1B-CHB	2.55	1.48	1.41
23	b	602	CLA	C4B-CHC	2.55	1.48	1.41
23	b	602	CLA	C4D-CHA	2.55	1.47	1.38
23	D	404	CLA	C1B-CHB	2.54	1.48	1.41
23	C	512	CLA	C4D-CHA	2.54	1.47	1.38
23	C	510	CLA	C4D-CHA	2.54	1.47	1.38
23	a	404	CLA	C4D-CHA	2.54	1.47	1.38
23	B	603	CLA	C4D-CHA	2.54	1.47	1.38
23	B	606	CLA	C1B-CHB	2.53	1.48	1.41
29	D	407	PL9	C6-C5	2.53	1.48	1.35
23	c	511	CLA	C1C-C2C	2.53	1.49	1.44
23	C	513	CLA	C4D-CHA	2.53	1.47	1.38
23	c	502	CLA	C1B-CHB	2.53	1.48	1.41
23	a	406	CLA	C4D-CHA	2.53	1.47	1.38
23	B	610	CLA	C1C-C2C	2.53	1.49	1.44
23	C	502	CLA	C3D-C4D	-2.53	1.38	1.44
23	b	601	CLA	C4D-CHA	2.53	1.47	1.38
23	B	604	CLA	C4B-CHC	2.53	1.48	1.41
23	c	510	CLA	C4D-CHA	2.53	1.47	1.38
23	c	503	CLA	C4D-CHA	2.52	1.47	1.38
23	B	611	CLA	C1B-CHB	2.52	1.48	1.41
23	b	612	CLA	C1C-C2C	2.52	1.49	1.44
23	b	608	CLA	C4D-CHA	2.52	1.47	1.38
23	b	606	CLA	C1C-C2C	2.51	1.49	1.44
23	B	615	CLA	C4D-CHA	2.51	1.47	1.38
24	a	407	PHO	CHA-CBD	-2.51	1.49	1.52
29	d	405	PL9	C6-C5	2.51	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	605	CLA	C1B-CHB	2.51	1.48	1.41
23	D	405	CLA	C4D-CHA	2.51	1.47	1.38
23	d	402	CLA	C1C-C2C	2.51	1.49	1.44
23	b	605	CLA	C4D-CHA	2.50	1.47	1.38
23	C	509	CLA	C1C-C2C	2.50	1.49	1.44
23	A	407	CLA	C4B-CHC	2.50	1.48	1.41
23	c	505	CLA	C4B-CHC	2.50	1.47	1.41
23	B	603	CLA	C3D-C4D	-2.50	1.38	1.44
23	c	506	CLA	C3D-C4D	-2.50	1.38	1.44
23	b	611	CLA	C4C-C3C	2.50	1.49	1.45
23	C	509	CLA	C4C-C3C	2.50	1.49	1.45
23	d	402	CLA	C4D-CHA	2.50	1.47	1.38
23	d	403	CLA	C1C-C2C	2.49	1.49	1.44
23	B	612	CLA	C4D-CHA	2.49	1.47	1.38
23	B	609	CLA	C1B-CHB	2.49	1.47	1.41
23	B	602	CLA	C4D-CHA	2.49	1.47	1.38
23	b	614	CLA	C4D-CHA	2.49	1.47	1.38
23	D	405	CLA	C1B-CHB	2.49	1.47	1.41
23	b	609	CLA	C4D-CHA	2.49	1.47	1.38
23	A	404	CLA	C4C-C3C	2.49	1.49	1.45
23	B	610	CLA	C4B-CHC	2.49	1.47	1.41
23	b	614	CLA	C1B-CHB	2.49	1.47	1.41
23	d	402	CLA	C3D-C4D	-2.48	1.38	1.44
23	b	616	CLA	C3D-C4D	-2.48	1.38	1.44
23	C	502	CLA	C1C-C2C	2.48	1.49	1.44
23	c	503	CLA	C4B-CHC	2.48	1.47	1.41
23	B	606	CLA	C4B-CHC	2.48	1.47	1.41
23	c	502	CLA	C4D-CHA	2.47	1.47	1.38
23	B	607	CLA	C1C-C2C	2.47	1.49	1.44
23	b	614	CLA	C1C-C2C	2.47	1.49	1.44
23	c	505	CLA	C4D-CHA	2.47	1.47	1.38
23	c	506	CLA	C4D-CHA	2.47	1.47	1.38
23	C	509	CLA	C4D-CHA	2.47	1.47	1.38
23	C	503	CLA	C4B-CHC	2.47	1.47	1.41
23	C	514	CLA	C4D-CHA	2.47	1.47	1.38
23	B	612	CLA	C3D-C4D	-2.46	1.38	1.44
23	C	503	CLA	C4D-CHA	2.46	1.47	1.38
23	b	609	CLA	C1C-C2C	2.46	1.49	1.44
23	a	405	CLA	C4D-CHA	2.46	1.47	1.38
23	B	610	CLA	C4D-CHA	2.45	1.47	1.38
23	b	603	CLA	C4D-CHA	2.45	1.47	1.38
23	C	514	CLA	C1B-CHB	2.45	1.47	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	607	CLA	C4D-CHA	2.45	1.47	1.38
23	B	611	CLA	C4D-CHA	2.45	1.47	1.38
23	c	501	CLA	C1B-CHB	2.44	1.47	1.41
23	c	512	CLA	C1C-C2C	2.44	1.49	1.44
23	C	507	CLA	C1C-C2C	2.44	1.49	1.44
23	B	617	CLA	C4B-CHC	2.44	1.47	1.41
23	c	509	CLA	C4D-CHA	2.44	1.47	1.38
23	B	615	CLA	C1B-CHB	2.44	1.47	1.41
23	b	615	CLA	C1B-CHB	2.44	1.47	1.41
23	C	507	CLA	C3D-C4D	-2.44	1.38	1.44
23	c	504	CLA	C1C-C2C	2.44	1.49	1.44
37	c	518	DGD	O2G-C2G	-2.44	1.40	1.46
23	C	504	CLA	C4B-CHC	2.44	1.47	1.41
23	B	617	CLA	C1B-CHB	2.43	1.47	1.41
23	b	609	CLA	C4B-CHC	2.43	1.47	1.41
23	C	502	CLA	C4B-CHC	2.43	1.47	1.41
23	A	405	CLA	C3D-C4D	-2.43	1.38	1.44
23	b	616	CLA	C4C-C3C	2.43	1.49	1.45
23	a	406	CLA	C3D-C4D	-2.43	1.38	1.44
23	b	615	CLA	C3D-C4D	-2.43	1.38	1.44
23	C	508	CLA	C4B-CHC	2.43	1.47	1.41
23	C	507	CLA	C4B-CHC	2.42	1.47	1.41
23	C	508	CLA	C3D-C4D	-2.42	1.38	1.44
23	B	605	CLA	C1B-CHB	2.42	1.47	1.41
23	b	602	CLA	C3D-C4D	-2.42	1.38	1.44
23	b	608	CLA	C1C-C2C	2.42	1.49	1.44
23	b	612	CLA	C4D-CHA	2.42	1.47	1.38
23	b	612	CLA	C4B-CHC	2.42	1.47	1.41
23	B	609	CLA	C1C-NC	-2.41	1.34	1.37
23	b	614	CLA	C4B-CHC	2.41	1.47	1.41
23	C	503	CLA	C3D-C4D	-2.41	1.38	1.44
23	B	614	CLA	C4D-CHA	2.41	1.47	1.38
23	a	409	CLA	C3D-C4D	-2.41	1.38	1.44
23	B	604	CLA	C1B-CHB	2.41	1.47	1.41
23	C	512	CLA	C1B-CHB	2.40	1.47	1.41
23	c	508	CLA	C4D-CHA	2.40	1.46	1.38
23	B	615	CLA	C4B-CHC	2.40	1.47	1.41
23	c	509	CLA	C3D-C4D	-2.40	1.38	1.44
23	B	613	CLA	C1B-CHB	2.40	1.47	1.41
23	c	513	CLA	C4B-CHC	2.40	1.47	1.41
23	d	402	CLA	C4C-C3C	2.40	1.49	1.45
23	B	603	CLA	C1C-C2C	2.40	1.49	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	502	CLA	C1B-CHB	2.40	1.47	1.41
23	a	404	CLA	C1B-CHB	2.40	1.47	1.41
23	A	405	CLA	C4C-C3C	2.40	1.49	1.45
23	B	617	CLA	C1C-C2C	2.40	1.49	1.44
23	b	606	CLA	C1B-CHB	2.40	1.47	1.41
23	B	611	CLA	C1C-C2C	2.40	1.49	1.44
23	a	409	CLA	C4B-CHC	2.39	1.47	1.41
38	e	103	HEM	C1D-ND	-2.39	1.33	1.38
23	c	503	CLA	C3D-C4D	-2.39	1.38	1.44
23	b	612	CLA	C4C-C3C	2.39	1.49	1.45
23	A	405	CLA	C4D-CHA	2.39	1.46	1.38
23	C	505	CLA	C3D-C4D	-2.39	1.38	1.44
23	c	506	CLA	C1B-NB	-2.39	1.33	1.35
23	b	610	CLA	C3D-C4D	-2.39	1.38	1.44
23	B	604	CLA	C1C-C2C	2.39	1.49	1.44
23	b	601	CLA	C4B-CHC	2.39	1.47	1.41
23	C	510	CLA	C1B-CHB	2.39	1.47	1.41
23	a	404	CLA	C3D-C4D	-2.39	1.38	1.44
23	C	506	CLA	C4C-C3C	2.39	1.49	1.45
23	b	616	CLA	C1B-CHB	2.39	1.47	1.41
23	c	510	CLA	C4C-C3C	2.39	1.49	1.45
23	b	608	CLA	C4B-CHC	2.38	1.47	1.41
23	c	513	CLA	C4D-CHA	2.38	1.46	1.38
35	B	633	LMT	O1'-C1'	2.38	1.44	1.40
23	B	612	CLA	C4B-CHC	2.38	1.47	1.41
23	b	614	CLA	C3D-C4D	-2.38	1.38	1.44
23	B	610	CLA	C1B-CHB	2.37	1.47	1.41
23	b	603	CLA	C3D-C4D	-2.37	1.38	1.44
23	c	504	CLA	C4B-NB	-2.37	1.33	1.35
23	d	402	CLA	C4B-CHC	2.37	1.47	1.41
23	c	510	CLA	C3D-C4D	-2.36	1.38	1.44
23	c	503	CLA	C1B-CHB	2.36	1.47	1.41
23	d	402	CLA	C1B-CHB	2.36	1.47	1.41
36	b	621	HTG	C1-S1	-2.36	1.77	1.80
23	b	606	CLA	C4B-CHC	2.36	1.47	1.41
23	b	606	CLA	C4D-CHA	2.36	1.46	1.38
23	c	510	CLA	C1C-C2C	2.36	1.49	1.44
23	b	603	CLA	C4C-C3C	2.36	1.49	1.45
23	C	512	CLA	C4C-C3C	2.35	1.49	1.45
23	B	613	CLA	C4C-C3C	2.35	1.49	1.45
23	c	510	CLA	C4B-CHC	2.35	1.47	1.41
23	C	506	CLA	C4D-CHA	2.35	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	617	CLA	C3D-C4D	-2.35	1.38	1.44
23	C	511	CLA	C3D-C4D	-2.35	1.38	1.44
23	B	606	CLA	C3D-C4D	-2.35	1.38	1.44
23	b	607	CLA	C4C-C3C	2.35	1.49	1.45
23	c	511	CLA	C4B-CHC	2.34	1.47	1.41
23	c	509	CLA	C4C-C3C	2.34	1.49	1.45
23	C	514	CLA	C4B-CHC	2.34	1.47	1.41
23	C	511	CLA	C1B-CHB	2.34	1.47	1.41
23	B	606	CLA	C1C-NC	-2.34	1.34	1.37
23	c	508	CLA	C4B-CHC	2.34	1.47	1.41
23	B	616	CLA	C1C-C2C	2.34	1.49	1.44
23	A	405	CLA	C1C-C2C	2.34	1.49	1.44
23	C	510	CLA	C3D-C4D	-2.34	1.38	1.44
23	B	605	CLA	C4B-CHC	2.34	1.47	1.41
23	b	612	CLA	C3D-C4D	-2.34	1.38	1.44
23	c	505	CLA	C3D-C4D	-2.33	1.38	1.44
23	B	602	CLA	C4B-CHC	2.33	1.47	1.41
23	c	504	CLA	C1B-CHB	2.33	1.47	1.41
23	C	505	CLA	C4C-C3C	2.33	1.49	1.45
23	B	603	CLA	C1B-CHB	2.33	1.47	1.41
23	B	607	CLA	C4B-CHC	2.33	1.47	1.41
23	d	403	CLA	C3D-C4D	-2.33	1.38	1.44
23	c	503	CLA	C1C-C2C	2.33	1.49	1.44
23	c	502	CLA	C3D-C4D	-2.33	1.38	1.44
35	C	522	LMT	O1'-C1'	2.33	1.44	1.40
23	c	501	CLA	C4B-CHC	2.33	1.47	1.41
23	C	505	CLA	C4B-CHC	2.32	1.47	1.41
23	b	604	CLA	C3D-C4D	-2.32	1.38	1.44
23	C	510	CLA	C4B-CHC	2.32	1.47	1.41
23	c	513	CLA	C1B-CHB	2.32	1.47	1.41
36	B	629	HTG	C1-S1	-2.32	1.77	1.80
23	A	405	CLA	C4B-CHC	2.32	1.47	1.41
23	C	502	CLA	C4C-C3C	2.32	1.49	1.45
23	b	606	CLA	C3D-C4D	-2.31	1.39	1.44
23	C	504	CLA	C1B-CHB	2.31	1.47	1.41
36	b	626	HTG	C1-S1	-2.31	1.77	1.80
23	a	404	CLA	C4B-CHC	2.31	1.47	1.41
23	b	603	CLA	C4B-CHC	2.31	1.47	1.41
23	c	508	CLA	C3D-C4D	-2.31	1.39	1.44
23	b	602	CLA	C1B-CHB	2.31	1.47	1.41
23	B	609	CLA	C1C-C2C	2.30	1.49	1.44
23	B	603	CLA	C4B-CHC	2.30	1.47	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	a	406	CLA	C1C-NC	-2.30	1.34	1.37
23	D	401	CLA	C1B-CHB	2.30	1.47	1.41
23	B	613	CLA	C3D-C4D	-2.30	1.39	1.44
23	b	605	CLA	C1C-C2C	2.30	1.49	1.44
23	c	502	CLA	C1C-C2C	2.30	1.49	1.44
36	D	412	HTG	C1-S1	-2.29	1.77	1.80
23	c	506	CLA	C1B-CHB	2.29	1.47	1.41
23	D	401	CLA	C3D-C4D	-2.29	1.39	1.44
23	b	611	CLA	C3D-C4D	-2.29	1.39	1.44
23	a	405	CLA	C3D-C4D	-2.29	1.39	1.44
23	C	507	CLA	C4C-C3C	2.29	1.49	1.45
23	A	405	CLA	C1B-CHB	2.29	1.47	1.41
23	c	505	CLA	C4C-C3C	2.29	1.49	1.45
23	d	403	CLA	C4D-CHA	2.29	1.46	1.38
23	A	405	CLA	C1B-NB	-2.28	1.33	1.35
23	a	405	CLA	C1B-NB	-2.28	1.33	1.35
24	a	408	PHO	C3A-C2A	-2.28	1.52	1.54
23	A	407	CLA	C1C-C2C	2.28	1.49	1.44
23	b	601	CLA	C1C-C2C	2.28	1.49	1.44
23	c	507	CLA	C1D-C2D	2.27	1.49	1.45
23	b	605	CLA	C4C-C3C	2.27	1.49	1.45
23	b	601	CLA	C1B-CHB	2.27	1.47	1.41
23	B	604	CLA	C3D-C4D	-2.27	1.39	1.44
23	b	604	CLA	C4B-CHC	2.27	1.47	1.41
23	b	614	CLA	C4C-C3C	2.27	1.49	1.45
23	B	614	CLA	C1B-CHB	2.27	1.47	1.41
23	B	614	CLA	C4B-CHC	2.27	1.47	1.41
23	b	607	CLA	C3D-C4D	-2.27	1.39	1.44
23	c	501	CLA	C1C-C2C	2.27	1.49	1.44
23	d	403	CLA	C1B-CHB	2.27	1.47	1.41
23	b	604	CLA	C1B-CHB	2.26	1.47	1.41
23	b	615	CLA	C4C-C3C	2.26	1.48	1.45
23	B	616	CLA	C3D-C4D	-2.26	1.39	1.44
23	A	404	CLA	C4D-CHA	2.26	1.46	1.38
23	B	607	CLA	C3D-C4D	-2.26	1.39	1.44
23	A	404	CLA	C3D-C4D	-2.26	1.39	1.44
23	b	605	CLA	C4B-CHC	2.26	1.47	1.41
23	c	513	CLA	C4C-C3C	2.26	1.48	1.45
23	c	512	CLA	C1B-CHB	2.25	1.47	1.41
23	B	605	CLA	C3D-C4D	-2.25	1.39	1.44
23	c	506	CLA	C4C-C3C	2.25	1.48	1.45
23	C	503	CLA	C1C-C2C	2.25	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	D	404	CLA	C4B-CHC	2.25	1.47	1.41
23	c	509	CLA	C4B-CHC	2.25	1.47	1.41
23	B	608	CLA	C1B-CHB	2.24	1.47	1.41
23	B	610	CLA	C3D-C4D	-2.24	1.39	1.44
23	C	509	CLA	C4B-CHC	2.24	1.47	1.41
23	b	607	CLA	C1B-NB	-2.23	1.33	1.35
23	B	613	CLA	C4B-CHC	2.23	1.47	1.41
23	a	409	CLA	C1B-CHB	2.23	1.47	1.41
23	B	602	CLA	C1B-CHB	2.23	1.47	1.41
23	B	608	CLA	C3D-C4D	-2.23	1.39	1.44
36	c	522	HTG	C1-S1	-2.23	1.77	1.80
37	h	103	DGD	O5D-C1E	2.22	1.44	1.40
23	c	501	CLA	C3D-C4D	-2.22	1.39	1.44
23	B	602	CLA	C4C-C3C	2.22	1.48	1.45
23	c	502	CLA	C4B-CHC	2.22	1.47	1.41
23	c	513	CLA	C3D-C4D	-2.22	1.39	1.44
23	b	612	CLA	C1B-CHB	2.21	1.47	1.41
38	E	103	HEM	C3B-C4B	2.21	1.49	1.44
23	c	504	CLA	C3D-C4D	-2.21	1.39	1.44
23	a	405	CLA	C1C-C2C	2.21	1.48	1.44
23	B	611	CLA	C3D-C4D	-2.21	1.39	1.44
23	c	507	CLA	C4C-C3C	2.21	1.48	1.45
23	C	509	CLA	C3D-C4D	-2.21	1.39	1.44
23	c	507	CLA	C3D-C4D	-2.21	1.39	1.44
36	b	623	HTG	C1-S1	-2.20	1.77	1.80
23	D	405	CLA	C3D-C4D	-2.20	1.39	1.44
23	c	508	CLA	C4C-C3C	2.20	1.48	1.45
23	C	512	CLA	C3D-C4D	-2.20	1.39	1.44
23	B	609	CLA	C3D-C4D	-2.20	1.39	1.44
23	A	407	CLA	C3D-C4D	-2.19	1.39	1.44
23	b	601	CLA	C3D-C4D	-2.19	1.39	1.44
23	A	407	CLA	C1B-NB	-2.19	1.33	1.35
23	c	509	CLA	C4B-NB	-2.19	1.33	1.35
23	c	504	CLA	C4B-CHC	2.19	1.47	1.41
23	b	608	CLA	C1B-CHB	2.18	1.47	1.41
23	C	513	CLA	C3D-C4D	-2.18	1.39	1.44
23	c	511	CLA	C4C-C3C	2.18	1.48	1.45
23	b	605	CLA	C3D-C4D	-2.18	1.39	1.44
23	C	509	CLA	C1C-NC	-2.18	1.34	1.37
34	Z	101	LMG	O1-C1	2.18	1.43	1.40
23	b	616	CLA	C4B-CHC	2.18	1.47	1.41
23	C	504	CLA	C3D-C4D	-2.18	1.39	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	D	404	CLA	C4D-CHA	2.17	1.46	1.38
36	B	630	HTG	C1-S1	-2.17	1.77	1.80
23	A	407	CLA	C1B-CHB	2.17	1.47	1.41
23	C	507	CLA	C1D-C2D	2.17	1.49	1.45
23	d	402	CLA	C1B-NB	-2.17	1.33	1.35
23	B	615	CLA	C1C-C2C	2.15	1.48	1.44
23	b	607	CLA	C4B-CHC	2.15	1.47	1.41
36	b	625	HTG	C1-S1	-2.15	1.77	1.80
23	c	512	CLA	C4C-C3C	2.15	1.48	1.45
38	e	103	HEM	CHB-C1B	2.15	1.40	1.35
23	C	507	CLA	C1B-CHB	2.15	1.47	1.41
23	B	602	CLA	C3D-C4D	-2.15	1.39	1.44
23	c	512	CLA	C3D-C4D	-2.14	1.39	1.44
23	C	513	CLA	C1B-CHB	2.14	1.47	1.41
23	c	507	CLA	C1B-CHB	2.14	1.46	1.41
38	E	103	HEM	CHB-C1B	2.14	1.40	1.35
23	b	609	CLA	C3D-C4D	-2.14	1.39	1.44
34	a	417	LMG	O1-C1	2.14	1.43	1.40
23	B	617	CLA	C1C-NC	-2.13	1.34	1.37
23	B	607	CLA	C1B-CHB	2.13	1.46	1.41
23	b	602	CLA	C4C-C3C	2.13	1.48	1.45
23	C	514	CLA	C3D-C4D	-2.13	1.39	1.44
23	C	506	CLA	C4B-CHC	2.12	1.46	1.41
23	c	506	CLA	C4B-CHC	2.12	1.46	1.41
23	B	616	CLA	C1B-CHB	2.12	1.46	1.41
23	C	512	CLA	C4B-CHC	2.12	1.46	1.41
37	c	517	DGD	O3G-C1D	2.11	1.43	1.40
23	b	608	CLA	C1C-NC	-2.10	1.34	1.37
23	C	514	CLA	C1D-C2D	2.10	1.49	1.45
23	C	508	CLA	C4C-C3C	2.10	1.48	1.45
23	c	506	CLA	C1C-NC	-2.10	1.34	1.37
23	C	510	CLA	C4C-C3C	2.09	1.48	1.45
23	B	606	CLA	C4C-C3C	2.09	1.48	1.45
23	a	409	CLA	C1B-NB	-2.09	1.33	1.35
36	h	101	HTG	C1-S1	-2.08	1.77	1.80
26	a	413	SQD	O6-C1	2.08	1.43	1.40
34	c	519	LMG	O1-C1	2.08	1.43	1.40
23	B	615	CLA	C3D-C4D	-2.08	1.39	1.44
23	b	613	CLA	C3D-C4D	-2.08	1.39	1.44
23	b	601	CLA	C1D-C2D	2.07	1.49	1.45
23	C	512	CLA	C1C-NC	-2.07	1.34	1.37
35	E	102	LMT	O1'-C1'	2.07	1.43	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	615	CLA	C4B-CHC	2.07	1.46	1.41
23	B	610	CLA	C1D-C2D	2.07	1.49	1.45
23	b	609	CLA	C1D-C2D	2.06	1.49	1.45
23	c	513	CLA	C1D-C2D	2.06	1.49	1.45
23	C	504	CLA	C1C-C2C	2.06	1.48	1.44
23	A	407	CLA	C1D-C2D	2.06	1.49	1.45
23	B	611	CLA	C4C-C3C	2.06	1.48	1.45
38	e	103	HEM	C4B-NB	-2.06	1.34	1.38
23	a	405	CLA	C4B-CHC	2.06	1.46	1.41
23	c	504	CLA	C1D-C2D	2.06	1.49	1.45
29	D	407	PL9	C2-C1	-2.06	1.39	1.44
23	B	609	CLA	C4B-CHC	2.05	1.46	1.41
34	C	521	LMG	O1-C1	2.05	1.43	1.40
29	A	413	PL9	C2-C3	2.05	1.40	1.34
35	b	628	LMT	O1'-C1'	2.04	1.43	1.40
25	b	619	BCR	C30-C25	-2.04	1.51	1.53
36	b	622	HTG	C1-S1	-2.04	1.77	1.80
23	b	609	CLA	C4C-C3C	2.04	1.48	1.45
38	E	103	HEM	C1D-ND	-2.04	1.34	1.38
23	B	610	CLA	C1B-NB	-2.03	1.33	1.35
23	D	401	CLA	C1D-C2D	2.03	1.49	1.45
23	b	615	CLA	C1C-NC	-2.03	1.34	1.37
23	b	616	CLA	C1C-C2C	2.03	1.48	1.44
23	b	611	CLA	C4B-CHC	2.03	1.46	1.41
23	c	501	CLA	C1D-C2D	2.03	1.49	1.45
29	d	405	PL9	C2-C3	2.02	1.40	1.34
23	B	603	CLA	C1D-C2D	2.02	1.49	1.45
34	J	101	LMG	O1-C1	2.02	1.43	1.40
35	a	418	LMT	O1'-C1'	2.02	1.43	1.40
31	d	406	LHG	O7-C5	-2.02	1.41	1.46
23	b	613	CLA	C4C-C3C	2.02	1.48	1.45
23	B	614	CLA	C3D-C4D	-2.02	1.39	1.44
23	C	510	CLA	C1C-NC	-2.02	1.34	1.37
23	b	606	CLA	C4C-C3C	2.01	1.48	1.45
23	d	403	CLA	C1D-C2D	2.01	1.49	1.45
23	b	605	CLA	C1D-C2D	2.01	1.49	1.45
23	C	514	CLA	C4C-C3C	2.00	1.48	1.45
23	C	503	CLA	C4C-C3C	2.00	1.48	1.45

All (2636) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	D	405	CLA	C1D-ND-C4D	-10.30	99.02	106.33
23	D	401	CLA	C1D-ND-C4D	-10.24	99.06	106.33
23	C	514	CLA	C1D-ND-C4D	-10.04	99.20	106.33
23	d	403	CLA	C1D-ND-C4D	-9.92	99.29	106.33
23	A	407	CLA	C1D-ND-C4D	-9.85	99.33	106.33
23	c	511	CLA	C1D-ND-C4D	-9.82	99.36	106.33
23	c	513	CLA	C1D-ND-C4D	-9.80	99.37	106.33
23	C	510	CLA	C1D-ND-C4D	-9.76	99.40	106.33
23	D	404	CLA	C1D-ND-C4D	-9.76	99.40	106.33
23	B	615	CLA	C1D-ND-C4D	-9.71	99.44	106.33
23	B	606	CLA	C1D-ND-C4D	-9.69	99.45	106.33
23	B	609	CLA	C1D-ND-C4D	-9.66	99.47	106.33
23	c	502	CLA	C1D-ND-C4D	-9.64	99.49	106.33
23	a	406	CLA	C1D-ND-C4D	-9.63	99.49	106.33
23	A	405	CLA	C1D-ND-C4D	-9.63	99.50	106.33
23	c	505	CLA	C1D-ND-C4D	-9.61	99.51	106.33
23	B	602	CLA	C1D-ND-C4D	-9.58	99.53	106.33
23	b	606	CLA	C1D-ND-C4D	-9.55	99.55	106.33
23	b	605	CLA	C1D-ND-C4D	-9.55	99.55	106.33
23	B	604	CLA	C1D-ND-C4D	-9.54	99.56	106.33
23	b	603	CLA	C1D-ND-C4D	-9.53	99.57	106.33
23	b	609	CLA	C1D-ND-C4D	-9.49	99.59	106.33
23	c	504	CLA	C1D-ND-C4D	-9.48	99.60	106.33
23	C	512	CLA	C1D-ND-C4D	-9.46	99.61	106.33
23	B	607	CLA	C1D-ND-C4D	-9.41	99.65	106.33
23	C	504	CLA	C1D-ND-C4D	-9.35	99.69	106.33
23	B	612	CLA	C1D-ND-C4D	-9.34	99.70	106.33
23	b	608	CLA	C1D-ND-C4D	-9.30	99.73	106.33
23	C	509	CLA	C1D-ND-C4D	-9.30	99.73	106.33
23	b	610	CLA	C1D-ND-C4D	-9.29	99.74	106.33
23	B	611	CLA	C1D-ND-C4D	-9.25	99.76	106.33
23	B	610	CLA	C1D-ND-C4D	-9.21	99.79	106.33
23	b	613	CLA	C1D-ND-C4D	-9.21	99.79	106.33
23	c	509	CLA	C1D-ND-C4D	-9.17	99.82	106.33
23	a	405	CLA	C1D-ND-C4D	-9.15	99.83	106.33
23	b	614	CLA	C1D-ND-C4D	-9.11	99.87	106.33
23	b	602	CLA	C1D-ND-C4D	-9.10	99.87	106.33
23	C	503	CLA	C1D-ND-C4D	-9.09	99.88	106.33
23	B	617	CLA	C1D-ND-C4D	-9.07	99.89	106.33
23	d	402	CLA	C1D-ND-C4D	-9.05	99.91	106.33
23	A	407	CLA	C2D-C1D-ND	8.94	116.69	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	605	CLA	C1D-ND-C4D	-8.93	99.99	106.33
23	c	503	CLA	C1D-ND-C4D	-8.92	100.00	106.33
23	b	612	CLA	C1D-ND-C4D	-8.91	100.01	106.33
23	C	509	CLA	C2D-C1D-ND	8.90	116.66	110.10
23	c	512	CLA	C1D-ND-C4D	-8.90	100.02	106.33
23	B	609	CLA	C2D-C1D-ND	8.87	116.64	110.10
23	B	608	CLA	C1D-ND-C4D	-8.87	100.03	106.33
23	b	613	CLA	C2D-C1D-ND	8.87	116.64	110.10
23	b	615	CLA	C1D-ND-C4D	-8.85	100.05	106.33
23	b	607	CLA	C1D-ND-C4D	-8.83	100.06	106.33
23	B	613	CLA	C1D-ND-C4D	-8.82	100.07	106.33
23	b	607	CLA	C2D-C1D-ND	8.82	116.60	110.10
23	C	502	CLA	C1D-ND-C4D	-8.77	100.11	106.33
23	C	511	CLA	C1D-ND-C4D	-8.77	100.11	106.33
23	c	508	CLA	C1D-ND-C4D	-8.73	100.13	106.33
23	C	505	CLA	C1D-ND-C4D	-8.71	100.15	106.33
23	B	612	CLA	C2D-C1D-ND	8.71	116.52	110.10
23	c	501	CLA	C1D-ND-C4D	-8.70	100.16	106.33
23	C	513	CLA	C1D-ND-C4D	-8.69	100.16	106.33
23	B	611	CLA	C2D-C1D-ND	8.67	116.50	110.10
23	B	615	CLA	C2D-C1D-ND	8.66	116.49	110.10
23	C	506	CLA	C1D-ND-C4D	-8.66	100.18	106.33
23	b	601	CLA	C1D-ND-C4D	-8.66	100.19	106.33
23	a	409	CLA	C1D-ND-C4D	-8.62	100.21	106.33
23	a	404	CLA	C1D-ND-C4D	-8.62	100.21	106.33
23	c	510	CLA	C1D-ND-C4D	-8.61	100.22	106.33
23	c	506	CLA	C1D-ND-C4D	-8.60	100.22	106.33
23	c	507	CLA	C1D-ND-C4D	-8.59	100.23	106.33
23	D	405	CLA	C2D-C1D-ND	8.57	116.42	110.10
23	B	616	CLA	C1D-ND-C4D	-8.55	100.26	106.33
23	B	603	CLA	C1D-ND-C4D	-8.54	100.27	106.33
23	A	404	CLA	C1D-ND-C4D	-8.53	100.27	106.33
23	C	514	CLA	C2D-C1D-ND	8.52	116.38	110.10
23	B	614	CLA	C1D-ND-C4D	-8.51	100.29	106.33
23	b	604	CLA	C1D-ND-C4D	-8.51	100.29	106.33
24	a	407	PHO	O2D-CGD-CBD	8.50	121.77	111.00
23	D	404	CLA	C2D-C1D-ND	8.50	116.37	110.10
23	D	401	CLA	C2D-C1D-ND	8.49	116.36	110.10
23	a	406	CLA	C2D-C1D-ND	8.46	116.34	110.10
23	b	611	CLA	C1D-ND-C4D	-8.43	100.35	106.33
23	B	606	CLA	C2D-C1D-ND	8.35	116.25	110.10
23	C	504	CLA	C2D-C1D-ND	8.33	116.24	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	504	CLA	C2D-C1D-ND	8.32	116.23	110.10
23	b	606	CLA	C2D-C1D-ND	8.31	116.23	110.10
23	c	511	CLA	C2D-C1D-ND	8.31	116.23	110.10
23	C	507	CLA	C1D-ND-C4D	-8.31	100.43	106.33
23	B	617	CLA	C2D-C1D-ND	8.30	116.22	110.10
23	c	512	CLA	C2D-C1D-ND	8.29	116.21	110.10
23	B	614	CLA	C2D-C1D-ND	8.27	116.20	110.10
23	C	508	CLA	C1D-ND-C4D	-8.27	100.46	106.33
23	B	610	CLA	C2D-C1D-ND	8.25	116.18	110.10
23	B	607	CLA	C2D-C1D-ND	8.24	116.18	110.10
23	c	508	CLA	C2D-C1D-ND	8.21	116.16	110.10
23	B	604	CLA	C2D-C1D-ND	8.19	116.14	110.10
23	C	510	CLA	C2D-C1D-ND	8.18	116.13	110.10
23	d	403	CLA	C2D-C1D-ND	8.13	116.10	110.10
23	b	614	CLA	C2D-C1D-ND	8.13	116.09	110.10
23	C	512	CLA	C2D-C1D-ND	8.09	116.07	110.10
23	B	605	CLA	C2D-C1D-ND	8.08	116.06	110.10
23	B	602	CLA	C2D-C1D-ND	8.03	116.02	110.10
23	c	513	CLA	C2D-C1D-ND	8.01	116.01	110.10
24	A	406	PHO	O2D-CGD-CBD	7.97	121.10	111.00
23	b	608	CLA	C2D-C1D-ND	7.96	115.97	110.10
23	B	613	CLA	C2D-C1D-ND	7.90	115.92	110.10
23	c	502	CLA	C2D-C1D-ND	7.88	115.91	110.10
23	A	405	CLA	C2D-C1D-ND	7.87	115.90	110.10
23	a	405	CLA	C2D-C1D-ND	7.86	115.90	110.10
23	B	608	CLA	C2D-C1D-ND	7.84	115.89	110.10
23	b	615	CLA	C2D-C1D-ND	7.82	115.87	110.10
23	C	505	CLA	C2D-C1D-ND	7.74	115.81	110.10
23	b	605	CLA	C2D-C1D-ND	7.72	115.79	110.10
23	b	609	CLA	C2D-C1D-ND	7.70	115.78	110.10
23	b	611	CLA	C2D-C1D-ND	7.68	115.77	110.10
23	b	602	CLA	C2D-C1D-ND	7.65	115.74	110.10
23	c	505	CLA	C2D-C1D-ND	7.60	115.71	110.10
23	b	616	CLA	C1D-ND-C4D	-7.60	100.94	106.33
23	b	603	CLA	C2D-C1D-ND	7.59	115.70	110.10
23	C	513	CLA	C2D-C1D-ND	7.59	115.70	110.10
23	C	506	CLA	CMD-C2D-C1D	7.58	138.07	124.71
23	b	604	CLA	C2D-C1D-ND	7.57	115.68	110.10
23	c	509	CLA	C2D-C1D-ND	7.57	115.68	110.10
23	c	506	CLA	C2D-C1D-ND	7.52	115.65	110.10
23	c	507	CLA	CMD-C2D-C1D	7.49	137.91	124.71
23	C	502	CLA	C2D-C1D-ND	7.47	115.61	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	616	CLA	C2D-C1D-ND	7.46	115.60	110.10
23	b	610	CLA	C2D-C1D-ND	7.46	115.60	110.10
23	c	501	CLA	C2D-C1D-ND	7.45	115.59	110.10
23	d	402	CLA	C2D-C1D-ND	7.45	115.59	110.10
23	C	503	CLA	C2D-C1D-ND	7.41	115.57	110.10
23	b	612	CLA	C2D-C1D-ND	7.41	115.56	110.10
23	c	503	CLA	C2D-C1D-ND	7.41	115.56	110.10
23	B	608	CLA	C4A-NA-C1A	-7.32	103.41	106.71
23	C	508	CLA	C2D-C1D-ND	7.31	115.49	110.10
23	a	409	CLA	C2D-C1D-ND	7.27	115.46	110.10
23	A	404	CLA	CMD-C2D-C1D	7.21	137.43	124.71
23	b	616	CLA	C2D-C1D-ND	7.17	115.39	110.10
23	c	510	CLA	CMD-C2D-C1D	7.14	137.30	124.71
24	a	408	PHO	O2D-CGD-CBD	7.14	120.04	111.00
23	c	507	CLA	C2D-C1D-ND	7.13	115.36	110.10
23	C	507	CLA	CMD-C2D-C1D	7.13	137.28	124.71
23	b	615	CLA	CMD-C2D-C1D	7.12	137.27	124.71
23	C	511	CLA	C2D-C1D-ND	7.06	115.31	110.10
23	c	513	CLA	CHD-C1D-ND	-7.02	118.01	124.45
23	b	601	CLA	C2D-C1D-ND	6.99	115.25	110.10
23	B	612	CLA	CHD-C4C-C3C	-6.98	114.58	124.84
23	a	404	CLA	C2D-C1D-ND	6.97	115.24	110.10
23	A	404	CLA	C2D-C1D-ND	6.96	115.23	110.10
23	C	504	CLA	CMD-C2D-C1D	6.93	136.92	124.71
23	B	609	CLA	CHD-C4C-C3C	-6.93	114.66	124.84
23	c	507	CLA	CHD-C1D-ND	-6.89	118.12	124.45
23	c	510	CLA	C2D-C1D-ND	6.86	115.16	110.10
23	b	614	CLA	CMD-C2D-C1D	6.85	136.78	124.71
23	A	407	CLA	CHD-C1D-ND	-6.84	118.16	124.45
23	C	507	CLA	C2D-C1D-ND	6.83	115.14	110.10
23	D	401	CLA	CHD-C1D-ND	-6.81	118.19	124.45
23	c	509	CLA	CMD-C2D-C1D	6.80	136.69	124.71
24	D	402	PHO	O2D-CGD-CBD	6.79	119.59	111.00
23	b	603	CLA	CMD-C2D-C1D	6.78	136.66	124.71
23	C	507	CLA	C4A-NA-C1A	-6.77	103.66	106.71
23	b	609	CLA	C4A-NA-C1A	-6.77	103.66	106.71
23	c	507	CLA	O2D-CGD-CBD	6.75	123.27	111.27
23	B	607	CLA	CHD-C1D-ND	-6.71	118.29	124.45
23	b	611	CLA	C2C-C1C-NC	6.68	116.23	109.97
23	B	617	CLA	CHD-C4C-C3C	-6.68	115.03	124.84
23	B	611	CLA	CHD-C4C-C3C	-6.67	115.04	124.84
23	c	513	CLA	CMD-C2D-C1D	6.67	136.46	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	D	404	CLA	CMD-C2D-C1D	6.65	136.43	124.71
23	A	407	CLA	CMD-C2D-C1D	6.64	136.42	124.71
23	C	514	CLA	CHD-C1D-ND	-6.64	118.35	124.45
23	C	507	CLA	CHD-C1D-ND	-6.64	118.36	124.45
23	C	506	CLA	C2D-C1D-ND	6.63	114.99	110.10
23	D	405	CLA	CHD-C4C-C3C	-6.62	115.11	124.84
23	c	511	CLA	CMD-C2D-C1D	6.61	136.37	124.71
23	b	604	CLA	CMD-C2D-C1D	6.61	136.35	124.71
23	b	601	CLA	CMD-C2D-C1D	6.57	136.30	124.71
23	B	612	CLA	CMD-C2D-C1D	6.57	136.30	124.71
23	B	603	CLA	C2D-C1D-ND	6.57	114.95	110.10
23	b	602	CLA	CMD-C2D-C1D	6.55	136.25	124.71
23	b	602	CLA	C4A-NA-C1A	-6.53	103.77	106.71
23	a	406	CLA	CHD-C1D-ND	-6.53	118.45	124.45
23	B	617	CLA	O2D-CGD-CBD	6.52	122.85	111.27
23	b	616	CLA	C4A-NA-C1A	-6.51	103.78	106.71
23	b	613	CLA	CHD-C4C-C3C	-6.48	115.31	124.84
23	b	615	CLA	CHD-C1D-ND	-6.48	118.50	124.45
23	c	513	CLA	C4A-NA-C1A	-6.47	103.80	106.71
23	C	510	CLA	CMD-C2D-C1D	6.47	136.11	124.71
23	c	507	CLA	C4A-NA-C1A	-6.46	103.80	106.71
23	B	606	CLA	CHD-C4C-C3C	-6.43	115.39	124.84
23	c	503	CLA	CMD-C2D-C1D	6.40	135.99	124.71
23	D	405	CLA	CMD-C2D-C1D	6.39	135.97	124.71
23	A	404	CLA	C4A-NA-C1A	-6.38	103.84	106.71
23	D	401	CLA	CHD-C4C-C3C	-6.38	115.47	124.84
23	d	403	CLA	CHD-C1D-ND	-6.37	118.60	124.45
23	B	615	CLA	CHD-C1D-ND	-6.36	118.61	124.45
23	b	609	CLA	CMD-C2D-C1D	6.36	135.91	124.71
23	B	605	CLA	CMD-C2D-C1D	6.34	135.89	124.71
25	D	406	BCR	C7-C8-C9	-6.34	116.66	126.23
23	B	602	CLA	CMD-C2D-C1D	6.33	135.88	124.71
23	B	608	CLA	CMD-C2D-C1D	6.33	135.88	124.71
23	B	603	CLA	CMD-C2D-C1D	6.32	135.85	124.71
23	a	404	CLA	CMD-C2D-C1D	6.32	135.85	124.71
29	a	415	PL9	C7-C3-C4	6.31	122.01	116.88
23	B	603	CLA	C4A-NA-C1A	-6.31	103.87	106.71
23	C	505	CLA	C2C-C1C-NC	6.31	115.88	109.97
23	c	512	CLA	O2D-CGD-CBD	6.30	122.47	111.27
23	B	610	CLA	CHD-C4C-C3C	-6.27	115.62	124.84
23	c	505	CLA	CMD-C2D-C1D	6.27	135.76	124.71
23	C	510	CLA	CHD-C1D-ND	-6.26	118.70	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	609	CLA	CHD-C1D-ND	-6.26	118.70	124.45
36	B	625	HTG	C1'-S1-C1	6.25	111.79	100.09
23	b	602	CLA	CHD-C1D-ND	-6.25	118.71	124.45
23	c	504	CLA	CHD-C1D-ND	-6.25	118.71	124.45
23	a	409	CLA	C4A-NA-C1A	-6.25	103.90	106.71
23	B	607	CLA	CMD-C2D-C1D	6.25	135.72	124.71
23	b	604	CLA	O2D-CGD-CBD	6.25	122.37	111.27
23	b	611	CLA	CMD-C2D-C1D	6.25	135.72	124.71
23	C	510	CLA	CHD-C4C-C3C	-6.24	115.66	124.84
23	b	606	CLA	CMD-C2D-C1D	6.24	135.71	124.71
23	c	511	CLA	CHD-C1D-ND	-6.23	118.72	124.45
23	d	402	CLA	C2C-C1C-NC	6.23	115.81	109.97
23	B	606	CLA	CMD-C2D-C1D	6.23	135.69	124.71
23	C	514	CLA	CMD-C2D-C1D	6.23	135.69	124.71
23	c	502	CLA	CHD-C4C-C3C	-6.22	115.69	124.84
23	c	505	CLA	CHD-C4C-C3C	-6.22	115.70	124.84
23	b	610	CLA	CMD-C2D-C1D	6.22	135.67	124.71
23	B	617	CLA	C4A-NA-C1A	-6.21	103.91	106.71
23	B	613	CLA	O2D-CGD-CBD	6.21	122.31	111.27
23	A	405	CLA	CMD-C2D-C1D	6.20	135.65	124.71
23	d	403	CLA	CMD-C2D-C1D	6.20	135.65	124.71
23	a	406	CLA	CMD-C2D-C1D	6.20	135.64	124.71
23	B	610	CLA	CHD-C1D-ND	-6.20	118.75	124.45
23	C	513	CLA	CHD-C4C-C3C	-6.20	115.73	124.84
36	B	626	HTG	C1'-S1-C1	6.19	111.68	100.09
23	d	403	CLA	CHD-C4C-C3C	-6.19	115.74	124.84
23	C	508	CLA	O2D-CGD-CBD	6.17	122.24	111.27
23	c	501	CLA	CMD-C2D-C1D	6.17	135.59	124.71
23	B	608	CLA	CHD-C1D-ND	-6.17	118.79	124.45
23	c	502	CLA	CHD-C1D-ND	-6.16	118.79	124.45
23	c	506	CLA	CMD-C2D-C1D	6.16	135.57	124.71
23	C	513	CLA	C4A-NA-C1A	-6.15	103.94	106.71
23	a	406	CLA	CHD-C4C-C3C	-6.15	115.80	124.84
23	b	608	CLA	CHD-C4C-C3C	-6.15	115.80	124.84
23	B	602	CLA	CHD-C1D-ND	-6.15	118.81	124.45
23	a	405	CLA	CHD-C1D-ND	-6.14	118.81	124.45
23	B	605	CLA	O2D-CGD-CBD	6.14	122.17	111.27
23	C	511	CLA	CMD-C2D-C1D	6.12	135.50	124.71
23	C	504	CLA	CHD-C1D-ND	-6.12	118.83	124.45
23	c	503	CLA	C4A-NA-C1A	-6.11	103.96	106.71
23	B	603	CLA	O2D-CGD-CBD	6.11	122.13	111.27
23	b	606	CLA	C4A-NA-C1A	-6.10	103.96	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	509	CLA	CHD-C4C-C3C	-6.10	115.87	124.84
23	b	611	CLA	O2D-CGD-CBD	6.10	122.11	111.27
23	C	503	CLA	CMD-C2D-C1D	6.10	135.46	124.71
23	B	611	CLA	CMD-C2D-C1D	6.10	135.46	124.71
23	B	615	CLA	CMD-C2D-C1D	6.09	135.45	124.71
36	b	623	HTG	C1'-S1-C1	6.08	111.47	100.09
23	c	512	CLA	CHD-C4C-C3C	-6.08	115.91	124.84
23	a	405	CLA	C2C-C1C-NC	6.08	115.67	109.97
23	A	405	CLA	CHD-C1D-ND	-6.08	118.87	124.45
23	c	501	CLA	CHD-C1D-ND	-6.08	118.87	124.45
23	D	401	CLA	CMD-C2D-C1D	6.07	135.42	124.71
23	b	606	CLA	CHD-C4C-C3C	-6.07	115.92	124.84
23	b	605	CLA	CMD-C2D-C1D	6.07	135.41	124.71
23	B	610	CLA	CMD-C2D-C1D	6.07	135.41	124.71
23	A	407	CLA	CHD-C4C-C3C	-6.07	115.92	124.84
23	C	506	CLA	CHD-C4C-C3C	-6.07	115.92	124.84
23	B	615	CLA	O2D-CGD-CBD	6.06	122.05	111.27
23	c	508	CLA	CHD-C4C-C3C	-6.06	115.93	124.84
23	C	512	CLA	CHD-C1D-ND	-6.06	118.89	124.45
23	c	511	CLA	CHD-C4C-C3C	-6.06	115.94	124.84
23	C	514	CLA	CHD-C4C-C3C	-6.05	115.94	124.84
23	b	604	CLA	CHD-C4C-C3C	-6.05	115.94	124.84
23	B	603	CLA	CHD-C1D-ND	-6.04	118.90	124.45
23	b	602	CLA	CHD-C4C-C3C	-6.04	115.96	124.84
23	b	615	CLA	C2C-C1C-NC	6.04	115.63	109.97
23	C	508	CLA	CMD-C2D-C1D	6.03	135.34	124.71
23	B	605	CLA	CHD-C4C-C3C	-6.03	115.98	124.84
23	C	511	CLA	CHD-C1D-ND	-6.02	118.93	124.45
23	b	610	CLA	C4A-NA-C1A	-6.01	104.00	106.71
23	b	605	CLA	CHD-C4C-C3C	-6.00	116.01	124.84
23	C	505	CLA	CMD-C2D-C1D	6.00	135.28	124.71
23	B	613	CLA	CHD-C4C-C3C	-5.99	116.03	124.84
23	b	608	CLA	CHD-C1D-ND	-5.99	118.95	124.45
23	a	405	CLA	CMD-C2D-C1D	5.99	135.26	124.71
23	c	503	CLA	CHD-C1D-ND	-5.98	118.96	124.45
23	c	504	CLA	CMD-C2D-C1D	5.98	135.25	124.71
23	b	606	CLA	CHD-C1D-ND	-5.97	118.96	124.45
23	b	614	CLA	O2D-CGD-CBD	5.97	121.87	111.27
23	c	506	CLA	CHD-C1D-ND	-5.96	118.97	124.45
23	a	404	CLA	C4A-NA-C1A	-5.96	104.03	106.71
23	b	601	CLA	CHD-C1D-ND	-5.95	118.98	124.45
23	B	607	CLA	CHD-C4C-C3C	-5.94	116.11	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	614	CLA	CHD-C1D-ND	-5.94	119.00	124.45
23	b	607	CLA	C2C-C1C-NC	5.93	115.53	109.97
23	C	513	CLA	CMD-C2D-C1D	5.93	135.16	124.71
23	D	404	CLA	C2C-C1C-NC	5.92	115.52	109.97
36	c	521	HTG	C1'-S1-C1	5.92	111.16	100.09
23	a	409	CLA	CMD-C2D-C1D	5.92	135.14	124.71
23	B	614	CLA	CMD-C2D-C1D	5.91	135.13	124.71
23	b	610	CLA	CHD-C4C-C3C	-5.91	116.15	124.84
23	C	511	CLA	C2C-C1C-NC	5.91	115.50	109.97
23	B	616	CLA	CHD-C4C-C3C	-5.88	116.19	124.84
23	C	508	CLA	CHD-C4C-C3C	-5.87	116.21	124.84
23	b	603	CLA	CHD-C4C-C3C	-5.87	116.21	124.84
36	b	621	HTG	C1'-S1-C1	5.87	111.08	100.09
23	B	606	CLA	CHD-C1D-ND	-5.87	119.06	124.45
23	c	504	CLA	C2C-C1C-NC	5.86	115.46	109.97
23	c	510	CLA	C4A-NA-C1A	-5.85	104.08	106.71
23	c	502	CLA	CMD-C2D-C1D	5.85	135.02	124.71
23	c	510	CLA	CHD-C1D-ND	-5.85	119.08	124.45
23	B	602	CLA	CHD-C4C-C3C	-5.84	116.25	124.84
23	c	508	CLA	O2D-CGD-CBD	5.84	121.65	111.27
29	A	413	PL9	C7-C3-C4	5.83	121.62	116.88
23	b	612	CLA	CMD-C2D-C1D	5.83	134.99	124.71
23	B	604	CLA	CHD-C4C-C3C	-5.83	116.28	124.84
23	D	405	CLA	CHD-C1D-ND	-5.83	119.10	124.45
23	D	404	CLA	CHD-C1D-ND	-5.82	119.10	124.45
23	B	604	CLA	O2D-CGD-CBD	5.82	121.61	111.27
23	C	502	CLA	CHD-C4C-C3C	-5.82	116.28	124.84
36	D	412	HTG	C1'-S1-C1	5.82	110.98	100.09
23	b	609	CLA	CHD-C4C-C3C	-5.82	116.29	124.84
23	B	607	CLA	C4A-NA-C1A	-5.81	104.09	106.71
23	b	601	CLA	CHD-C4C-C3C	-5.81	116.30	124.84
23	D	404	CLA	CHD-C4C-C3C	-5.81	116.30	124.84
23	C	508	CLA	CHD-C1D-ND	-5.80	119.12	124.45
23	c	501	CLA	C4A-NA-C1A	-5.80	104.10	106.71
23	b	603	CLA	CHD-C1D-ND	-5.80	119.13	124.45
23	d	402	CLA	CMD-C2D-C1D	5.78	134.90	124.71
23	b	607	CLA	CHD-C4C-C3C	-5.78	116.35	124.84
23	B	611	CLA	O2D-CGD-CBD	5.77	121.52	111.27
23	C	504	CLA	C4A-NA-C1A	-5.77	104.11	106.71
23	C	502	CLA	CMD-C2D-C1D	5.76	134.87	124.71
23	B	615	CLA	C2C-C1C-NC	5.76	115.37	109.97
23	b	601	CLA	O2D-CGD-CBD	5.76	121.50	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	A	409	SQD	O6-C1-C2	5.76	117.29	108.30
23	B	614	CLA	C2C-C1C-NC	5.75	115.36	109.97
26	D	413	SQD	O47-C7-C8	5.74	123.88	111.50
23	B	617	CLA	CMD-C2D-C1D	5.73	134.81	124.71
25	T	101	BCR	C15-C16-C17	-5.72	111.75	123.47
23	C	502	CLA	O2D-CGD-CBD	5.72	121.43	111.27
23	b	612	CLA	CHD-C4C-C3C	-5.72	116.44	124.84
23	b	614	CLA	CHD-C4C-C3C	-5.72	116.44	124.84
23	b	601	CLA	C4A-NA-C1A	-5.71	104.14	106.71
23	b	616	CLA	CHD-C4C-C3C	-5.71	116.44	124.84
23	C	512	CLA	CMD-C2D-C1D	5.71	134.78	124.71
23	c	509	CLA	CHD-C4C-C3C	-5.71	116.45	124.84
23	B	604	CLA	CHD-C1D-ND	-5.70	119.22	124.45
23	C	509	CLA	C2C-C1C-NC	5.70	115.31	109.97
23	B	604	CLA	C4A-NA-C1A	-5.69	104.15	106.71
23	B	602	CLA	O2D-CGD-CBD	5.69	121.37	111.27
23	d	403	CLA	C4A-NA-C1A	-5.68	104.15	106.71
23	B	616	CLA	CMD-C2D-C1D	5.68	134.73	124.71
23	c	508	CLA	C2C-C1C-NC	5.68	115.29	109.97
23	A	404	CLA	CHD-C4C-C3C	-5.68	116.49	124.84
23	c	501	CLA	O2D-CGD-CBD	5.67	121.35	111.27
23	b	616	CLA	O2D-CGD-CBD	5.67	121.34	111.27
23	b	616	CLA	CMD-C2D-C1D	5.67	134.71	124.71
23	B	608	CLA	CHD-C4C-C3C	-5.67	116.51	124.84
23	c	503	CLA	C2C-C1C-NC	5.67	115.28	109.97
23	b	607	CLA	CHD-C1D-ND	-5.66	119.26	124.45
23	b	608	CLA	CMD-C2D-C1D	5.65	134.68	124.71
23	C	511	CLA	O2D-CGD-CBD	5.65	121.31	111.27
23	C	503	CLA	CHD-C4C-C3C	-5.65	116.54	124.84
23	c	509	CLA	CHD-C1D-ND	-5.65	119.27	124.45
23	a	405	CLA	CHD-C4C-C3C	-5.65	116.54	124.84
23	B	611	CLA	C4A-NA-C1A	-5.65	104.17	106.71
23	b	607	CLA	CMD-C2D-C1D	5.64	134.66	124.71
23	C	506	CLA	O2D-CGD-CBD	5.64	121.29	111.27
23	c	508	CLA	CMD-C2D-C1D	5.64	134.65	124.71
23	b	605	CLA	CHD-C1D-ND	-5.62	119.29	124.45
23	b	616	CLA	C2C-C1C-NC	5.61	115.23	109.97
23	b	612	CLA	C4A-NA-C1A	-5.61	104.19	106.71
23	A	404	CLA	CHD-C1D-ND	-5.60	119.31	124.45
23	b	610	CLA	CHD-C1D-ND	-5.60	119.31	124.45
23	a	404	CLA	CHD-C4C-C3C	-5.59	116.62	124.84
23	c	506	CLA	C2C-C1C-NC	5.58	115.20	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	502	CLA	C2C-C1C-NC	5.57	115.19	109.97
23	B	614	CLA	CHD-C4C-C3C	-5.57	116.66	124.84
23	b	611	CLA	CHD-C4C-C3C	-5.56	116.66	124.84
23	C	513	CLA	CHD-C1D-ND	-5.56	119.34	124.45
23	B	604	CLA	CMD-C2D-C1D	5.56	134.51	124.71
23	a	404	CLA	CHD-C1D-ND	-5.56	119.35	124.45
23	B	612	CLA	CHD-C1D-ND	-5.55	119.35	124.45
23	B	610	CLA	C4A-NA-C1A	-5.55	104.21	106.71
23	C	509	CLA	O2D-CGD-CBD	5.55	121.13	111.27
25	Y	101	BCR	C33-C5-C6	-5.54	118.30	124.53
23	b	603	CLA	O2D-CGD-CBD	5.54	121.11	111.27
23	c	510	CLA	C1-C2-C3	-5.54	116.46	126.04
23	C	512	CLA	CHD-C4C-C3C	-5.54	116.70	124.84
23	b	605	CLA	C2C-C1C-NC	5.54	115.16	109.97
23	b	615	CLA	C4A-NA-C1A	-5.53	104.22	106.71
23	c	507	CLA	CHD-C4C-C3C	-5.53	116.71	124.84
23	B	609	CLA	CHD-C1D-ND	-5.53	119.37	124.45
23	C	503	CLA	CHD-C1D-ND	-5.52	119.38	124.45
23	b	613	CLA	CMD-C2D-C1D	5.52	134.44	124.71
23	c	505	CLA	O2D-CGD-CBD	5.52	121.07	111.27
23	A	405	CLA	C4A-NA-C1A	-5.51	104.23	106.71
23	B	611	CLA	CHD-C1D-ND	-5.51	119.39	124.45
23	C	514	CLA	C4A-NA-C1A	-5.51	104.23	106.71
23	C	503	CLA	O2D-CGD-CBD	5.51	121.05	111.27
23	c	512	CLA	CMD-C2D-C1D	5.50	134.41	124.71
23	C	504	CLA	CHD-C4C-C3C	-5.50	116.75	124.84
23	C	506	CLA	CHD-C1D-ND	-5.50	119.40	124.45
23	c	506	CLA	CHD-C4C-C3C	-5.49	116.76	124.84
23	C	506	CLA	C4A-NA-C1A	-5.49	104.24	106.71
23	C	506	CLA	C2C-C1C-NC	5.49	115.11	109.97
23	C	504	CLA	C2C-C1C-NC	5.48	115.10	109.97
36	B	630	HTG	C1'-S1-C1	5.47	110.32	100.09
23	c	513	CLA	CHD-C4C-C3C	-5.47	116.81	124.84
36	C	523	HTG	C1'-S1-C1	5.47	110.31	100.09
23	c	503	CLA	O2D-CGD-CBD	5.46	120.98	111.27
23	C	507	CLA	CHD-C4C-C3C	-5.46	116.81	124.84
23	b	605	CLA	O2D-CGD-CBD	5.46	120.97	111.27
23	b	612	CLA	CHD-C1D-ND	-5.45	119.44	124.45
23	b	610	CLA	O2D-CGD-CBD	5.45	120.95	111.27
23	b	604	CLA	C4A-NA-C1A	-5.45	104.26	106.71
23	d	402	CLA	CHD-C1D-ND	-5.44	119.45	124.45
23	d	402	CLA	C4A-NA-C1A	-5.43	104.26	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	a	404	CLA	C2C-C1C-NC	5.43	115.06	109.97
23	b	611	CLA	CHD-C1D-ND	-5.42	119.47	124.45
23	b	603	CLA	C4A-NA-C1A	-5.42	104.27	106.71
23	a	409	CLA	CHD-C1D-ND	-5.42	119.47	124.45
23	c	502	CLA	C2C-C1C-NC	5.42	115.05	109.97
23	b	606	CLA	O2D-CGD-CBD	5.41	120.89	111.27
23	D	404	CLA	C4A-NA-C1A	-5.41	104.27	106.71
23	C	505	CLA	CHD-C4C-C3C	-5.41	116.89	124.84
23	B	603	CLA	C2C-C1C-NC	5.40	115.03	109.97
23	B	617	CLA	CHD-C1D-ND	-5.40	119.49	124.45
23	b	608	CLA	C4A-NA-C1A	-5.38	104.29	106.71
23	C	505	CLA	CHD-C1D-ND	-5.38	119.51	124.45
23	c	502	CLA	O2D-CGD-CBD	5.38	120.83	111.27
23	B	607	CLA	O2D-CGD-CBD	5.37	120.82	111.27
23	A	404	CLA	C2C-C1C-NC	5.36	114.99	109.97
23	b	613	CLA	C4A-NA-C1A	-5.36	104.30	106.71
23	c	504	CLA	CHD-C4C-C3C	-5.35	116.97	124.84
23	B	616	CLA	C2C-C1C-NC	5.35	114.98	109.97
25	y	101	BCR	C33-C5-C6	-5.35	118.52	124.53
23	B	615	CLA	CHD-C4C-C3C	-5.35	116.98	124.84
23	C	502	CLA	C4A-NA-C1A	-5.34	104.30	106.71
23	B	616	CLA	CHD-C1D-ND	-5.34	119.55	124.45
23	c	501	CLA	C2C-C1C-NC	5.31	114.95	109.97
23	C	502	CLA	CHD-C1D-ND	-5.31	119.57	124.45
23	c	505	CLA	CHD-C1D-ND	-5.31	119.57	124.45
23	a	406	CLA	C4A-NA-C1A	-5.30	104.32	106.71
23	c	509	CLA	C2C-C1C-NC	5.30	114.94	109.97
23	b	613	CLA	CHD-C1D-ND	-5.30	119.58	124.45
26	a	411	SQD	O6-C1-C2	5.29	116.56	108.30
23	B	616	CLA	C4A-NA-C1A	-5.29	104.33	106.71
23	B	608	CLA	C2C-C1C-NC	5.29	114.92	109.97
25	c	514	BCR	C15-C14-C13	-5.28	119.77	127.31
23	c	510	CLA	CHD-C4C-C3C	-5.27	117.09	124.84
23	B	612	CLA	C3D-C2D-C1D	-5.25	98.66	105.83
23	C	511	CLA	C4A-NA-C1A	-5.25	104.34	106.71
23	b	612	CLA	O2D-CGD-CBD	5.25	120.59	111.27
26	f	101	SQD	O47-C7-C8	5.24	122.78	111.50
23	c	512	CLA	CHD-C1D-ND	-5.23	119.65	124.45
23	b	603	CLA	C2C-C1C-NC	5.22	114.86	109.97
23	d	403	CLA	O2D-CGD-CBD	5.22	120.55	111.27
23	A	407	CLA	C3D-C2D-C1D	-5.21	98.72	105.83
23	B	603	CLA	CHD-C4C-C3C	-5.21	117.18	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	505	CLA	O2D-CGD-CBD	5.20	120.52	111.27
23	C	509	CLA	C3C-C4C-NC	5.20	116.40	110.57
23	d	402	CLA	CHD-C4C-C3C	-5.19	117.22	124.84
23	B	605	CLA	CHD-C1D-ND	-5.18	119.69	124.45
23	C	508	CLA	C4A-NA-C1A	-5.18	104.38	106.71
23	B	610	CLA	C2C-C1C-NC	5.18	114.83	109.97
23	C	507	CLA	C2C-C1C-NC	5.18	114.82	109.97
23	C	513	CLA	O2D-CGD-CBD	5.17	120.46	111.27
23	b	602	CLA	O2D-CGD-CBD	5.17	120.45	111.27
23	B	613	CLA	C2C-C1C-NC	5.17	114.81	109.97
23	D	405	CLA	O2D-CGD-CBD	5.16	120.44	111.27
23	c	505	CLA	C2C-C1C-NC	5.16	114.81	109.97
23	C	510	CLA	O2D-CGD-CBD	5.15	120.43	111.27
23	b	604	CLA	C2C-C1C-NC	5.15	114.80	109.97
23	c	501	CLA	CHD-C4C-C3C	-5.15	117.28	124.84
23	c	510	CLA	C2C-C1C-NC	5.14	114.79	109.97
23	c	513	CLA	C2C-C1C-NC	5.14	114.79	109.97
23	c	509	CLA	C4A-NA-C1A	-5.13	104.40	106.71
23	B	609	CLA	C2C-C1C-NC	5.13	114.78	109.97
26	B	621	SQD	O6-C1-C2	5.13	116.31	108.30
23	c	512	CLA	C2C-C1C-NC	5.13	114.77	109.97
23	b	604	CLA	CHD-C1D-ND	-5.12	119.75	124.45
23	C	508	CLA	C2C-C1C-NC	5.12	114.77	109.97
23	b	607	CLA	C3D-C2D-C1D	-5.12	98.84	105.83
23	a	409	CLA	CHD-C4C-C3C	-5.12	117.32	124.84
23	b	610	CLA	C2C-C1C-NC	5.11	114.76	109.97
23	B	605	CLA	C2C-C1C-NC	5.11	114.75	109.97
23	B	612	CLA	C2C-C1C-NC	5.10	114.75	109.97
25	b	619	BCR	C3-C4-C5	-5.10	104.97	114.08
23	B	614	CLA	CHD-C1D-ND	-5.10	119.77	124.45
23	C	503	CLA	C2C-C1C-NC	5.09	114.75	109.97
23	A	407	CLA	C4A-NA-C1A	-5.09	104.42	106.71
23	b	615	CLA	CHD-C4C-C3C	-5.08	117.37	124.84
23	B	611	CLA	C3D-C2D-C1D	-5.08	98.90	105.83
23	c	503	CLA	CHD-C4C-C3C	-5.07	117.38	124.84
23	b	609	CLA	O2D-CGD-CBD	5.07	120.28	111.27
23	A	405	CLA	CHD-C4C-C3C	-5.06	117.40	124.84
23	c	508	CLA	CHD-C1D-ND	-5.06	119.81	124.45
23	a	406	CLA	C3D-C2D-C1D	-5.05	98.94	105.83
23	b	611	CLA	C4A-NA-C1A	-5.04	104.44	106.71
23	b	602	CLA	C2C-C1C-NC	5.04	114.70	109.97
23	b	601	CLA	C2C-C1C-NC	5.04	114.69	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	613	CLA	C2C-C1C-NC	5.03	114.68	109.97
23	C	510	CLA	C4A-NA-C1A	-5.02	104.45	106.71
23	a	405	CLA	C1C-C2C-C3C	-5.02	101.68	106.96
23	c	513	CLA	O2D-CGD-CBD	5.01	120.18	111.27
23	B	607	CLA	C2C-C1C-NC	5.01	114.67	109.97
26	L	102	SQD	O47-C7-C8	5.01	122.29	111.50
23	b	613	CLA	C3D-C2D-C1D	-5.00	99.01	105.83
23	B	609	CLA	CMD-C2D-C1D	4.99	133.52	124.71
23	b	606	CLA	C2C-C1C-NC	4.99	114.65	109.97
29	d	405	PL9	C42-C43-C44	-4.98	115.66	127.66
23	b	612	CLA	C2C-C1C-NC	4.98	114.64	109.97
23	c	508	CLA	C3D-C2D-C1D	-4.98	99.04	105.83
25	B	618	BCR	C33-C5-C6	-4.98	118.94	124.53
23	D	404	CLA	C3D-C2D-C1D	-4.97	99.05	105.83
23	B	602	CLA	C2C-C1C-NC	4.96	114.61	109.97
23	c	512	CLA	C4A-NA-C1A	-4.95	104.48	106.71
23	C	512	CLA	C4A-NA-C1A	-4.94	104.48	106.71
23	c	511	CLA	C2C-C1C-NC	4.94	114.60	109.97
23	c	509	CLA	O2D-CGD-CBD	4.93	120.03	111.27
23	a	409	CLA	C2C-C1C-NC	4.93	114.59	109.97
23	a	409	CLA	O2D-CGD-CBD	4.93	120.02	111.27
23	B	605	CLA	C3C-C4C-NC	4.92	116.09	110.57
23	B	606	CLA	C4A-NA-C1A	-4.92	104.49	106.71
23	B	614	CLA	C3D-C2D-C1D	-4.92	99.11	105.83
23	D	401	CLA	C3D-C4D-ND	4.92	118.20	110.24
34	C	501	LMG	O7-C10-C11	4.92	122.11	111.50
23	B	604	CLA	C2C-C1C-NC	4.92	114.58	109.97
23	B	613	CLA	C3C-C4C-NC	4.91	116.07	110.57
23	C	503	CLA	C4A-NA-C1A	-4.90	104.50	106.71
26	A	409	SQD	O47-C7-C8	4.90	122.06	111.50
23	A	405	CLA	C3D-C4D-ND	4.90	118.17	110.24
23	d	403	CLA	C3D-C4D-ND	4.89	118.15	110.24
24	a	408	PHO	C1-C2-C3	-4.89	117.59	126.04
23	c	504	CLA	C3D-C2D-C1D	-4.89	99.16	105.83
23	a	406	CLA	O2D-CGD-CBD	4.88	119.94	111.27
23	C	504	CLA	C3D-C2D-C1D	-4.88	99.17	105.83
23	c	505	CLA	C3C-C4C-NC	4.87	116.04	110.57
23	C	512	CLA	C2C-C1C-NC	4.87	114.53	109.97
23	B	606	CLA	C3D-C2D-C1D	-4.86	99.20	105.83
23	b	608	CLA	C2C-C1C-NC	4.86	114.52	109.97
23	c	504	CLA	O2D-CGD-CBD	4.85	119.89	111.27
23	A	407	CLA	C2C-C1C-NC	4.84	114.51	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	A	405	CLA	O2D-CGD-CBD	4.83	119.86	111.27
23	b	607	CLA	C3C-C4C-NC	4.83	115.99	110.57
23	B	615	CLA	C3D-C2D-C1D	-4.82	99.26	105.83
23	A	405	CLA	C2C-C1C-NC	4.81	114.48	109.97
23	C	514	CLA	C3D-C2D-C1D	-4.80	99.28	105.83
23	B	612	CLA	O2D-CGD-CBD	4.80	119.80	111.27
25	T	101	BCR	C7-C8-C9	-4.80	118.98	126.23
23	b	607	CLA	O2D-CGD-CBD	4.79	119.78	111.27
23	b	606	CLA	C3D-C2D-C1D	-4.79	99.29	105.83
23	B	606	CLA	O2D-CGD-CBD	4.79	119.78	111.27
23	a	406	CLA	C2C-C1C-NC	4.78	114.45	109.97
23	B	610	CLA	C3D-C2D-C1D	-4.77	99.32	105.83
23	B	610	CLA	C3C-C4C-NC	4.77	115.92	110.57
38	E	103	HEM	CAD-CBD-CGD	4.77	123.86	113.60
23	b	616	CLA	C3D-C2D-C1D	-4.76	99.33	105.83
23	b	614	CLA	C2C-C1C-NC	4.75	114.42	109.97
23	B	606	CLA	C2C-C1C-NC	4.75	114.42	109.97
23	B	615	CLA	C4A-NA-C1A	-4.75	104.57	106.71
23	B	617	CLA	C3D-C2D-C1D	-4.75	99.35	105.83
23	b	611	CLA	C3D-C2D-C1D	-4.74	99.36	105.83
23	C	511	CLA	CHD-C4C-C3C	-4.74	117.88	124.84
23	b	605	CLA	C3D-C4D-ND	4.74	117.90	110.24
23	c	508	CLA	C4A-NA-C1A	-4.73	104.58	106.71
23	B	609	CLA	C3D-C2D-C1D	-4.72	99.39	105.83
23	b	615	CLA	C3D-C2D-C1D	-4.72	99.39	105.83
23	D	401	CLA	C4A-NA-C1A	-4.71	104.59	106.71
23	B	613	CLA	C4A-NA-C1A	-4.70	104.59	106.71
23	B	608	CLA	O2D-CGD-CBD	4.70	119.63	111.27
23	D	405	CLA	C3D-C2D-C1D	-4.70	99.41	105.83
23	C	509	CLA	C3D-C2D-C1D	-4.70	99.42	105.83
23	B	607	CLA	C3D-C2D-C1D	-4.70	99.42	105.83
23	C	514	CLA	C3D-C4D-ND	4.70	117.84	110.24
25	c	515	BCR	C7-C8-C9	-4.70	119.14	126.23
23	c	513	CLA	C3D-C4D-ND	4.69	117.83	110.24
23	b	604	CLA	C3D-C2D-C1D	-4.69	99.43	105.83
23	C	509	CLA	CHD-C1D-ND	-4.68	120.15	124.45
36	c	522	HTG	C1'-S1-C1	4.68	108.85	100.09
23	D	401	CLA	C3D-C2D-C1D	-4.67	99.45	105.83
23	B	602	CLA	C3D-C4D-ND	4.67	117.80	110.24
36	b	622	HTG	C1'-S1-C1	4.67	108.83	100.09
26	L	102	SQD	O6-C1-C2	4.67	115.59	108.30
23	b	614	CLA	C3D-C2D-C1D	-4.67	99.46	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	611	CLA	C3C-C4C-NC	4.67	115.81	110.57
23	c	507	CLA	C2C-C1C-NC	4.67	114.34	109.97
25	Y	101	BCR	C16-C17-C18	-4.66	120.66	127.31
23	c	506	CLA	C3D-C2D-C1D	-4.66	99.47	105.83
23	B	611	CLA	C2C-C1C-NC	4.66	114.33	109.97
23	d	403	CLA	C3D-C2D-C1D	-4.65	99.48	105.83
23	c	502	CLA	C3D-C4D-ND	4.65	117.76	110.24
23	b	608	CLA	O2D-CGD-CBD	4.64	119.52	111.27
23	B	609	CLA	C3C-C4C-NC	4.64	115.78	110.57
36	h	101	HTG	C1'-S1-C1	4.64	108.76	100.09
23	c	508	CLA	C3C-C4C-NC	4.63	115.76	110.57
23	b	610	CLA	C3D-C4D-ND	4.62	117.72	110.24
23	C	510	CLA	C3D-C2D-C1D	-4.62	99.53	105.83
23	D	405	CLA	C3D-C4D-ND	4.62	117.71	110.24
38	e	103	HEM	CHC-C4B-NB	4.61	129.44	124.43
25	C	515	BCR	C15-C14-C13	-4.61	120.73	127.31
23	D	404	CLA	C3C-C4C-NC	4.61	115.74	110.57
23	B	613	CLA	CHD-C1D-ND	-4.61	120.22	124.45
23	a	405	CLA	C3D-C2D-C1D	-4.60	99.55	105.83
23	a	406	CLA	C3D-C4D-ND	4.60	117.68	110.24
25	t	101	BCR	C33-C5-C6	-4.60	119.36	124.53
23	b	609	CLA	C3D-C4D-ND	4.59	117.66	110.24
23	d	402	CLA	O2D-CGD-CBD	4.59	119.42	111.27
23	b	613	CLA	C3C-C4C-NC	4.58	115.71	110.57
23	C	507	CLA	O2D-CGD-CBD	4.58	119.41	111.27
23	B	604	CLA	C3D-C4D-ND	4.58	117.65	110.24
23	b	609	CLA	C2C-C1C-NC	4.58	114.26	109.97
23	C	512	CLA	C3D-C4D-ND	4.58	117.64	110.24
37	C	517	DGD	O2G-C1B-C2B	4.58	121.37	111.50
23	c	513	CLA	C3D-C2D-C1D	-4.57	99.59	105.83
23	d	402	CLA	C3D-C4D-ND	4.57	117.64	110.24
23	C	514	CLA	C2C-C1C-NC	4.57	114.25	109.97
23	c	501	CLA	C3D-C2D-C1D	-4.57	99.60	105.83
23	c	504	CLA	C3D-C4D-ND	4.56	117.62	110.24
23	C	510	CLA	C1-C2-C3	-4.56	118.15	126.04
23	B	610	CLA	C3D-C4D-ND	4.56	117.62	110.24
23	a	409	CLA	C3D-C2D-C1D	-4.56	99.61	105.83
23	b	611	CLA	O2D-CGD-O1D	-4.56	114.93	123.84
23	C	505	CLA	C3D-C2D-C1D	-4.55	99.62	105.83
23	C	511	CLA	C1-C2-C3	-4.55	118.17	126.04
23	B	605	CLA	C3D-C2D-C1D	-4.55	99.62	105.83
23	c	511	CLA	C3D-C2D-C1D	-4.55	99.62	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	510	CLA	C2C-C1C-NC	4.54	114.23	109.97
23	C	505	CLA	C1C-C2C-C3C	-4.54	102.18	106.96
23	C	513	CLA	C2C-C1C-NC	4.54	114.22	109.97
23	D	405	CLA	C4A-NA-C1A	-4.53	104.67	106.71
23	c	512	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
23	B	605	CLA	C1-C2-C3	-4.53	118.22	126.04
23	b	602	CLA	C3D-C4D-ND	4.53	117.56	110.24
23	b	608	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
23	D	404	CLA	O2D-CGD-CBD	4.52	119.30	111.27
23	B	614	CLA	C4A-NA-C1A	-4.52	104.68	106.71
23	C	513	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
26	a	411	SQD	O47-C7-C8	4.51	121.23	111.50
23	B	603	CLA	C3D-C4D-ND	4.51	117.54	110.24
23	C	510	CLA	C3D-C4D-ND	4.50	117.52	110.24
23	C	511	CLA	C3D-C4D-ND	4.50	117.52	110.24
23	B	617	CLA	C2C-C1C-NC	4.50	114.19	109.97
23	D	401	CLA	O2D-CGD-CBD	4.50	119.26	111.27
23	c	509	CLA	C1-C2-C3	-4.50	118.27	126.04
23	b	603	CLA	C3D-C4D-ND	4.50	117.51	110.24
23	B	612	CLA	C4A-NA-C1A	-4.50	104.69	106.71
23	B	615	CLA	C3D-C4D-ND	4.49	117.50	110.24
23	B	602	CLA	C3D-C2D-C1D	-4.49	99.71	105.83
23	c	509	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
23	b	604	CLA	C3C-C4C-NC	4.48	115.59	110.57
23	B	617	CLA	C3C-C4C-NC	4.48	115.59	110.57
23	a	405	CLA	C3D-C4D-ND	4.47	117.48	110.24
23	b	602	CLA	C3D-C2D-C1D	-4.47	99.73	105.83
23	a	404	CLA	C1C-C2C-C3C	-4.47	102.26	106.96
23	B	606	CLA	C3D-C4D-ND	4.47	117.47	110.24
23	B	604	CLA	C3D-C2D-C1D	-4.47	99.73	105.83
23	c	507	CLA	C3D-C2D-C1D	-4.47	99.73	105.83
23	C	502	CLA	C3D-C2D-C1D	-4.46	99.74	105.83
23	C	506	CLA	C3C-C4C-NC	4.46	115.57	110.57
23	D	405	CLA	C3C-C4C-NC	4.46	115.57	110.57
23	B	609	CLA	O2D-CGD-CBD	4.45	119.18	111.27
23	d	402	CLA	C1C-C2C-C3C	-4.45	102.28	106.96
25	c	514	BCR	C20-C21-C22	-4.45	120.96	127.31
23	B	616	CLA	C3D-C2D-C1D	-4.44	99.77	105.83
23	D	404	CLA	C3D-C4D-ND	4.44	117.42	110.24
23	B	608	CLA	C3D-C2D-C1D	-4.44	99.77	105.83
23	B	612	CLA	C3C-C4C-NC	4.43	115.54	110.57
23	C	502	CLA	C1D-CHD-C4C	-4.43	116.51	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	T	101	BCR	C33-C5-C6	-4.43	119.56	124.53
29	d	405	PL9	C10-C9-C11	4.42	122.71	115.27
23	c	503	CLA	C3D-C2D-C1D	-4.42	99.80	105.83
26	B	621	SQD	O47-C7-C8	4.42	121.03	111.50
23	B	607	CLA	C3D-C4D-ND	4.42	117.38	110.24
23	C	503	CLA	C3D-C4D-ND	4.41	117.38	110.24
23	B	606	CLA	C3C-C4C-NC	4.41	115.52	110.57
23	C	508	CLA	C3D-C2D-C1D	-4.41	99.81	105.83
36	b	625	HTG	C1'-S1-C1	4.41	108.33	100.09
23	b	608	CLA	C3D-C4D-ND	4.40	117.36	110.24
23	C	512	CLA	C3D-C2D-C1D	-4.40	99.82	105.83
23	b	605	CLA	C3D-C2D-C1D	-4.40	99.83	105.83
23	A	404	CLA	C3D-C2D-C1D	-4.39	99.84	105.83
23	c	505	CLA	C4A-NA-C1A	-4.39	104.73	106.71
25	b	617	BCR	C7-C8-C9	-4.39	119.60	126.23
23	C	510	CLA	C3C-C4C-NC	4.39	115.49	110.57
26	f	101	SQD	O7-S-C6	4.39	112.15	106.94
23	C	503	CLA	C3D-C2D-C1D	-4.39	99.85	105.83
23	c	502	CLA	C3D-C2D-C1D	-4.39	99.85	105.83
23	C	508	CLA	C3C-C4C-NC	4.38	115.49	110.57
23	A	405	CLA	C3D-C2D-C1D	-4.38	99.86	105.83
23	b	601	CLA	C3D-C4D-ND	4.37	117.31	110.24
23	A	407	CLA	C3D-C4D-ND	4.36	117.30	110.24
23	b	603	CLA	C1D-CHD-C4C	-4.36	116.65	126.06
23	B	609	CLA	C3D-C4D-ND	4.36	117.29	110.24
23	b	614	CLA	C4A-NA-C1A	-4.36	104.75	106.71
23	c	502	CLA	C4A-NA-C1A	-4.36	104.75	106.71
23	C	507	CLA	C3D-C2D-C1D	-4.36	99.89	105.83
23	b	609	CLA	C3D-C2D-C1D	-4.35	99.89	105.83
23	c	505	CLA	C3D-C4D-ND	4.35	117.28	110.24
23	b	615	CLA	O2D-CGD-CBD	4.35	119.00	111.27
23	C	509	CLA	C3D-C4D-ND	4.35	117.28	110.24
29	a	415	PL9	C7-C3-C2	-4.34	117.60	123.30
23	c	511	CLA	C3D-C4D-ND	4.34	117.25	110.24
23	c	503	CLA	C3D-C4D-ND	4.33	117.25	110.24
23	c	511	CLA	O2D-CGD-CBD	4.33	118.97	111.27
23	B	613	CLA	C3D-C4D-ND	4.33	117.24	110.24
25	d	404	BCR	C7-C8-C9	-4.33	119.70	126.23
23	c	502	CLA	C1C-C2C-C3C	-4.33	102.41	106.96
23	a	409	CLA	C3D-C4D-ND	4.31	117.22	110.24
29	A	413	PL9	C7-C3-C2	-4.31	117.63	123.30
38	E	103	HEM	CHC-C4B-NB	4.30	129.11	124.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	f	101	SQD	C1-O5-C5	4.30	122.13	113.69
23	B	616	CLA	C1D-CHD-C4C	-4.30	116.78	126.06
25	B	619	BCR	C15-C14-C13	-4.30	121.17	127.31
23	c	501	CLA	C3D-C4D-ND	4.29	117.18	110.24
25	t	101	BCR	C15-C16-C17	-4.29	114.69	123.47
23	b	612	CLA	C3D-C4D-ND	4.29	117.17	110.24
23	b	610	CLA	C3D-C2D-C1D	-4.28	99.99	105.83
23	d	403	CLA	C2C-C1C-NC	4.28	113.98	109.97
23	b	606	CLA	C3D-C4D-ND	4.27	117.15	110.24
25	B	618	BCR	C7-C8-C9	-4.27	119.78	126.23
23	b	616	CLA	CHD-C1D-ND	-4.27	120.53	124.45
31	E	101	LHG	O7-C7-C8	4.27	120.70	111.50
23	b	607	CLA	C4A-NA-C1A	-4.27	104.79	106.71
23	b	616	CLA	C1D-CHD-C4C	-4.27	116.86	126.06
26	A	411	SQD	O8-S-C6	4.26	112.54	105.74
23	b	611	CLA	C3C-C4C-NC	4.26	115.35	110.57
23	B	606	CLA	C1D-CHD-C4C	-4.26	116.86	126.06
23	b	601	CLA	C3D-C2D-C1D	-4.26	100.02	105.83
23	C	514	CLA	O2D-CGD-CBD	4.26	118.84	111.27
23	C	514	CLA	C3C-C4C-NC	4.26	115.34	110.57
23	b	603	CLA	C3D-C2D-C1D	-4.26	100.02	105.83
23	a	404	CLA	C3D-C4D-ND	4.25	117.12	110.24
23	b	606	CLA	O2D-CGD-O1D	-4.25	115.52	123.84
26	A	409	SQD	C1-C2-C3	-4.25	101.15	110.00
23	b	611	CLA	C3B-C4B-NB	4.25	114.70	109.21
23	c	509	CLA	C3D-C4D-ND	4.25	117.11	110.24
23	D	404	CLA	C1C-C2C-C3C	-4.25	102.49	106.96
23	B	613	CLA	CMD-C2D-C1D	4.25	132.19	124.71
23	a	404	CLA	C1D-CHD-C4C	-4.24	116.90	126.06
23	D	401	CLA	C2C-C1C-NC	4.24	113.94	109.97
23	b	616	CLA	C3C-C4C-NC	4.24	115.32	110.57
23	B	608	CLA	C3D-C4D-ND	4.22	117.07	110.24
23	B	602	CLA	C4A-NA-C1A	-4.22	104.81	106.71
23	c	506	CLA	C4A-NA-C1A	-4.22	104.81	106.71
26	A	409	SQD	C1-O5-C5	-4.22	105.41	113.69
23	C	509	CLA	CMD-C2D-C1D	4.22	132.15	124.71
23	B	616	CLA	O2D-CGD-CBD	4.22	118.76	111.27
23	c	508	CLA	C1C-C2C-C3C	-4.21	102.53	106.96
23	b	611	CLA	C1C-C2C-C3C	-4.21	102.53	106.96
34	J	101	LMG	O7-C10-C11	4.21	120.58	111.50
34	Z	101	LMG	O7-C10-C11	4.21	120.57	111.50
23	B	614	CLA	C1C-C2C-C3C	-4.20	102.54	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	507	CLA	C3D-C4D-ND	4.20	117.04	110.24
23	c	508	CLA	C3D-C4D-ND	4.20	117.03	110.24
23	B	611	CLA	C3D-C4D-ND	4.20	117.03	110.24
23	d	402	CLA	C3C-C4C-NC	4.20	115.28	110.57
23	B	605	CLA	C4A-NA-C1A	-4.20	104.82	106.71
23	C	507	CLA	C3D-C4D-ND	4.19	117.01	110.24
23	B	617	CLA	C3D-C4D-ND	4.18	117.00	110.24
23	c	509	CLA	C3C-C4C-NC	4.18	115.26	110.57
23	c	510	CLA	C3D-C4D-ND	4.18	116.99	110.24
23	B	612	CLA	C1C-C2C-C3C	-4.17	102.58	106.96
23	B	616	CLA	C3D-C4D-ND	4.16	116.97	110.24
23	b	614	CLA	C3D-C4D-ND	4.16	116.97	110.24
37	c	516	DGD	O2G-C1B-C2B	4.16	120.47	111.50
36	b	626	HTG	C1'-S1-C1	4.16	107.87	100.09
31	D	409	LHG	O7-C7-C8	4.15	120.45	111.50
23	b	613	CLA	C3D-C4D-ND	4.15	116.96	110.24
23	B	609	CLA	C1D-CHD-C4C	-4.15	117.10	126.06
23	b	614	CLA	C3C-C4C-NC	4.15	115.22	110.57
23	C	505	CLA	C3C-C4C-NC	4.13	115.21	110.57
23	D	401	CLA	C1C-C2C-C3C	-4.13	102.62	106.96
23	a	405	CLA	C3B-C4B-NB	4.13	114.55	109.21
23	B	613	CLA	C3D-C2D-C1D	-4.13	100.20	105.83
29	a	415	PL9	C32-C33-C34	-4.12	117.73	127.66
23	C	506	CLA	C3D-C2D-C1D	-4.12	100.21	105.83
23	c	506	CLA	C3D-C4D-ND	4.12	116.90	110.24
25	T	101	BCR	C11-C10-C9	-4.11	121.44	127.31
23	C	502	CLA	O2D-CGD-O1D	-4.10	115.81	123.84
23	c	512	CLA	C3C-C4C-NC	4.10	115.17	110.57
23	A	407	CLA	C3C-C4C-NC	4.10	115.17	110.57
23	C	513	CLA	C3D-C4D-ND	4.10	116.87	110.24
23	B	608	CLA	C1C-C2C-C3C	-4.10	102.65	106.96
23	B	617	CLA	C1D-CHD-C4C	-4.10	117.22	126.06
23	C	505	CLA	C3D-C4D-ND	4.09	116.86	110.24
36	B	629	HTG	C1'-S1-C1	4.09	107.74	100.09
23	C	502	CLA	C3C-C4C-NC	4.09	115.16	110.57
23	B	610	CLA	O2D-CGD-CBD	4.09	118.53	111.27
23	C	513	CLA	C3C-C4C-NC	4.09	115.16	110.57
23	b	615	CLA	C3D-C4D-ND	4.08	116.84	110.24
23	a	404	CLA	C3D-C2D-C1D	-4.08	100.26	105.83
25	b	619	BCR	C7-C8-C9	-4.08	120.07	126.23
23	B	607	CLA	C3C-C4C-NC	4.08	115.15	110.57
23	C	504	CLA	C3D-C4D-ND	4.08	116.83	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	607	CLA	C3D-C4D-ND	4.07	116.83	110.24
23	b	612	CLA	C3D-C2D-C1D	-4.07	100.27	105.83
23	b	612	CLA	C3C-C4C-NC	4.07	115.14	110.57
23	C	505	CLA	C1D-CHD-C4C	-4.07	117.28	126.06
23	c	510	CLA	C3D-C2D-C1D	-4.07	100.28	105.83
23	B	614	CLA	C3C-C4C-NC	4.07	115.13	110.57
23	B	615	CLA	C1C-C2C-C3C	-4.07	102.68	106.96
23	D	405	CLA	C2C-C1C-NC	4.06	113.77	109.97
23	C	505	CLA	C3B-C4B-NB	4.06	114.45	109.21
23	c	503	CLA	C1D-CHD-C4C	-4.06	117.31	126.06
23	C	502	CLA	C3D-C4D-ND	4.05	116.80	110.24
23	d	402	CLA	C3D-C2D-C1D	-4.05	100.30	105.83
23	A	404	CLA	C1D-CHD-C4C	-4.05	117.32	126.06
26	D	413	SQD	O6-C1-C2	4.05	114.63	108.30
38	e	103	HEM	CAD-CBD-CGD	4.05	122.32	113.60
23	C	511	CLA	C3D-C2D-C1D	-4.05	100.31	105.83
23	C	506	CLA	C3D-C4D-ND	4.05	116.78	110.24
23	b	605	CLA	C4A-NA-C1A	-4.04	104.89	106.71
23	b	606	CLA	C1D-CHD-C4C	-4.04	117.34	126.06
24	D	402	PHO	C1-C2-C3	-4.03	119.06	126.04
23	B	608	CLA	C3C-C4C-NC	4.03	115.09	110.57
23	C	513	CLA	C1D-CHD-C4C	-4.02	117.38	126.06
23	B	603	CLA	C3D-C2D-C1D	-4.02	100.34	105.83
23	b	610	CLA	C3C-C4C-NC	4.02	115.08	110.57
23	a	406	CLA	C1D-CHD-C4C	-4.02	117.39	126.06
23	A	404	CLA	C3D-C4D-ND	4.02	116.74	110.24
23	C	508	CLA	C3D-C4D-ND	4.01	116.72	110.24
23	B	613	CLA	C1-C2-C3	-4.00	119.12	126.04
23	b	605	CLA	C1D-CHD-C4C	-4.00	117.42	126.06
23	B	604	CLA	C1D-CHD-C4C	-4.00	117.43	126.06
34	c	519	LMG	O7-C10-C11	4.00	120.12	111.50
23	a	405	CLA	O2D-CGD-CBD	4.00	118.38	111.27
38	E	103	HEM	C1B-NB-C4B	4.00	109.20	105.07
23	C	512	CLA	O2D-CGD-CBD	3.99	118.37	111.27
23	d	403	CLA	O2D-CGD-O1D	-3.99	116.03	123.84
23	c	512	CLA	C3D-C4D-ND	3.99	116.69	110.24
23	A	404	CLA	O2A-CGA-CBA	3.99	124.43	111.91
23	D	405	CLA	C1D-CHD-C4C	-3.99	117.46	126.06
23	D	404	CLA	C1-C2-C3	-3.99	119.15	126.04
23	c	506	CLA	O2D-CGD-CBD	3.99	118.35	111.27
23	b	611	CLA	C3D-C4D-ND	3.98	116.68	110.24
23	c	511	CLA	C3C-C4C-NC	3.98	115.04	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	505	CLA	C3D-C2D-C1D	-3.98	100.40	105.83
23	b	603	CLA	C1C-C2C-C3C	-3.97	102.78	106.96
23	b	615	CLA	C1C-C2C-C3C	-3.97	102.78	106.96
23	c	504	CLA	C3C-C4C-NC	3.97	115.02	110.57
23	c	507	CLA	C3C-C4C-NC	3.96	115.02	110.57
23	b	606	CLA	C3C-C4C-NC	3.96	115.01	110.57
23	d	403	CLA	C3C-C4C-NC	3.96	115.01	110.57
23	C	512	CLA	CAC-C3C-C4C	3.96	129.94	124.81
23	c	510	CLA	O2D-CGD-CBD	3.95	118.29	111.27
23	b	602	CLA	C1D-CHD-C4C	-3.95	117.53	126.06
23	C	511	CLA	C3B-C4B-NB	3.95	114.32	109.21
23	C	504	CLA	O2D-CGD-CBD	3.95	118.29	111.27
23	B	612	CLA	C3D-C4D-ND	3.94	116.61	110.24
23	C	502	CLA	C1C-C2C-C3C	-3.94	102.81	106.96
25	b	619	BCR	C15-C14-C13	-3.94	121.69	127.31
23	b	607	CLA	C3B-C4B-NB	3.94	114.30	109.21
23	c	511	CLA	C1-C2-C3	-3.93	119.24	126.04
34	c	520	LMG	O6-C5-C4	3.93	116.84	109.69
25	C	515	BCR	C16-C17-C18	-3.93	121.70	127.31
34	C	521	LMG	O7-C10-C11	3.93	119.98	111.50
23	C	509	CLA	C4C-C3C-C2C	-3.93	101.17	106.90
23	A	405	CLA	C1C-C2C-C3C	-3.93	102.83	106.96
23	c	512	CLA	C1D-CHD-C4C	-3.93	117.59	126.06
23	C	503	CLA	C3C-C4C-NC	3.93	114.97	110.57
23	C	508	CLA	C1D-CHD-C4C	-3.92	117.60	126.06
31	L	101	LHG	O7-C7-C8	3.92	119.95	111.50
23	b	608	CLA	C3C-C4C-NC	3.92	114.97	110.57
23	B	605	CLA	C3D-C4D-ND	3.92	116.58	110.24
23	C	504	CLA	C1D-CHD-C4C	-3.91	117.61	126.06
23	B	612	CLA	C1D-CHD-C4C	-3.91	117.62	126.06
23	B	616	CLA	C1C-C2C-C3C	-3.91	102.84	106.96
23	B	614	CLA	C3D-C4D-ND	3.91	116.56	110.24
23	C	506	CLA	C1D-CHD-C4C	-3.91	117.63	126.06
31	b	630	LHG	O7-C7-C8	3.91	119.92	111.50
23	c	504	CLA	C3B-C4B-NB	3.91	114.26	109.21
25	d	404	BCR	C38-C26-C25	-3.90	120.14	124.53
23	C	509	CLA	C3B-C4B-NB	3.90	114.26	109.21
23	C	512	CLA	C3C-C4C-NC	3.90	114.95	110.57
23	b	610	CLA	C1D-CHD-C4C	-3.90	117.64	126.06
23	c	506	CLA	C3C-C4C-NC	3.90	114.95	110.57
25	c	514	BCR	C16-C17-C18	-3.90	121.74	127.31
23	c	513	CLA	C3C-C4C-NC	3.90	114.94	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	B	621	SQD	O7-S-C6	3.90	111.57	106.94
23	B	611	CLA	C1D-CHD-C4C	-3.90	117.65	126.06
23	b	602	CLA	C3C-C4C-NC	3.89	114.94	110.57
25	k	101	BCR	C11-C10-C9	-3.89	121.75	127.31
29	D	407	PL9	C42-C43-C44	-3.89	118.30	127.66
23	b	609	CLA	C1-C2-C3	-3.88	119.33	126.04
25	k	101	BCR	C24-C23-C22	-3.88	120.37	126.23
23	A	407	CLA	O2D-CGD-CBD	3.88	118.16	111.27
29	a	415	PL9	C27-C28-C29	-3.88	118.32	127.66
23	b	605	CLA	C3C-C4C-NC	3.88	114.92	110.57
23	c	503	CLA	C3C-C4C-NC	3.88	114.92	110.57
23	B	602	CLA	C3C-C4C-NC	3.87	114.92	110.57
23	c	510	CLA	C1C-C2C-C3C	-3.87	102.89	106.96
23	a	405	CLA	C1D-CHD-C4C	-3.87	117.72	126.06
25	C	527	BCR	C7-C8-C9	-3.86	120.40	126.23
25	H	101	BCR	C7-C8-C9	-3.86	120.40	126.23
23	c	502	CLA	C3C-C4C-NC	3.86	114.90	110.57
23	b	612	CLA	C1-C2-C3	-3.86	119.37	126.04
23	b	614	CLA	C1D-CHD-C4C	-3.86	117.74	126.06
23	b	611	CLA	C1-C2-C3	-3.85	119.38	126.04
23	c	504	CLA	C1C-C2C-C3C	-3.85	102.91	106.96
23	b	615	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
23	A	407	CLA	C4-C3-C5	3.85	121.74	115.27
23	b	603	CLA	C3C-C4C-NC	3.84	114.88	110.57
23	C	504	CLA	C3C-C4C-NC	3.84	114.88	110.57
25	t	101	BCR	C35-C13-C12	3.84	124.12	118.08
23	b	601	CLA	C1D-CHD-C4C	-3.83	117.79	126.06
23	b	610	CLA	C1-C2-C3	-3.83	119.42	126.04
23	C	509	CLA	O2D-CGD-O1D	-3.83	116.35	123.84
23	A	404	CLA	C3C-C4C-NC	3.82	114.86	110.57
23	b	602	CLA	C1C-C2C-C3C	-3.82	102.94	106.96
23	C	507	CLA	C1C-C2C-C3C	-3.82	102.94	106.96
23	B	615	CLA	O2D-CGD-O1D	-3.82	116.38	123.84
25	H	101	BCR	C16-C17-C18	-3.82	121.86	127.31
23	b	607	CLA	C1C-C2C-C3C	-3.81	102.95	106.96
25	d	404	BCR	C33-C5-C6	-3.81	120.25	124.53
23	c	502	CLA	O2D-CGD-O1D	-3.80	116.41	123.84
23	B	604	CLA	C3C-C4C-NC	3.80	114.83	110.57
23	B	613	CLA	C1D-CHD-C4C	-3.80	117.86	126.06
23	b	609	CLA	C3C-C4C-NC	3.80	114.83	110.57
25	D	406	BCR	C38-C26-C25	-3.80	120.27	124.53
23	b	607	CLA	C1D-CHD-C4C	-3.79	117.87	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	k	101	BCR	C15-C14-C13	-3.79	121.91	127.31
23	b	612	CLA	C1D-CHD-C4C	-3.79	117.89	126.06
23	C	511	CLA	C1C-C2C-C3C	-3.79	102.98	106.96
23	b	604	CLA	C1D-CHD-C4C	-3.78	117.90	126.06
23	c	509	CLA	C1D-CHD-C4C	-3.78	117.90	126.06
23	B	603	CLA	C3C-C4C-NC	3.78	114.81	110.57
23	A	404	CLA	C1C-C2C-C3C	-3.77	102.99	106.96
23	c	510	CLA	C1D-CHD-C4C	-3.77	117.92	126.06
34	a	417	LMG	O7-C10-C11	3.77	119.63	111.50
25	b	617	BCR	C33-C5-C6	-3.77	120.29	124.53
23	b	611	CLA	C1D-CHD-C4C	-3.77	117.92	126.06
35	D	403	LMT	O5'-C5'-C4'	3.77	117.70	109.75
23	B	609	CLA	C4A-NA-C1A	-3.77	105.01	106.71
23	B	607	CLA	C1D-CHD-C4C	-3.76	117.94	126.06
23	b	613	CLA	C1D-CHD-C4C	-3.76	117.94	126.06
23	b	605	CLA	C1C-C2C-C3C	-3.76	103.01	106.96
23	B	616	CLA	C3C-C4C-NC	3.76	114.78	110.57
25	A	408	BCR	C15-C14-C13	-3.75	121.95	127.31
23	b	604	CLA	C1C-C2C-C3C	-3.75	103.01	106.96
23	a	405	CLA	CBC-CAC-C3C	-3.75	102.10	112.43
23	a	409	CLA	C1D-CHD-C4C	-3.74	117.98	126.06
23	c	513	CLA	C1D-CHD-C4C	-3.74	117.98	126.06
23	c	506	CLA	C3B-C4B-NB	3.74	114.04	109.21
25	C	516	BCR	C11-C10-C9	-3.74	121.98	127.31
23	c	503	CLA	CAC-C3C-C4C	3.74	129.66	124.81
23	B	603	CLA	C1C-C2C-C3C	-3.74	103.03	106.96
23	B	611	CLA	C1-C2-C3	-3.74	119.58	126.04
23	b	616	CLA	C3D-C4D-ND	3.74	116.28	110.24
23	c	501	CLA	O2D-CGD-O1D	-3.73	116.54	123.84
25	H	101	BCR	C24-C23-C22	-3.73	120.60	126.23
23	B	615	CLA	C1D-CHD-C4C	-3.73	118.01	126.06
23	B	605	CLA	C1C-C2C-C3C	-3.73	103.04	106.96
23	c	512	CLA	C1C-C2C-C3C	-3.73	103.04	106.96
23	c	513	CLA	C1C-C2C-C3C	-3.73	103.04	106.96
24	a	408	PHO	C4-C3-C5	3.72	121.54	115.27
23	b	615	CLA	C3B-C4B-NB	3.72	114.02	109.21
23	C	514	CLA	C1D-CHD-C4C	-3.72	118.03	126.06
23	c	501	CLA	CAC-C3C-C4C	3.72	129.64	124.81
23	c	511	CLA	C1D-CHD-C4C	-3.72	118.03	126.06
23	B	607	CLA	C1C-C2C-C3C	-3.72	103.05	106.96
23	B	614	CLA	C1-C2-C3	-3.72	119.61	126.04
23	c	501	CLA	C3C-C4C-NC	3.72	114.74	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	608	CLA	C1C-C2C-C3C	-3.72	103.05	106.96
31	A	415	LHG	O7-C7-C8	3.72	119.51	111.50
23	C	511	CLA	C1D-CHD-C4C	-3.71	118.05	126.06
26	A	409	SQD	C44-O6-C1	-3.71	106.49	113.74
23	b	604	CLA	C3D-C4D-ND	3.71	116.24	110.24
23	C	510	CLA	CMC-C2C-C1C	3.71	130.69	125.04
23	c	502	CLA	C1D-CHD-C4C	-3.70	118.07	126.06
34	B	622	LMG	O7-C10-C11	3.70	119.48	111.50
23	B	606	CLA	O2D-CGD-O1D	-3.70	116.60	123.84
29	D	407	PL9	C10-C9-C11	3.70	121.50	115.27
23	D	401	CLA	CHD-C4C-NC	3.70	130.03	124.20
25	t	101	BCR	C11-C10-C9	-3.69	122.04	127.31
23	B	610	CLA	C1C-C2C-C3C	-3.69	103.08	106.96
23	A	407	CLA	C1C-C2C-C3C	-3.69	103.08	106.96
23	C	509	CLA	C1D-CHD-C4C	-3.69	118.10	126.06
23	a	404	CLA	CMB-C2B-C3B	3.69	131.58	124.68
23	a	406	CLA	C3C-C4C-NC	3.69	114.70	110.57
23	D	401	CLA	C1D-CHD-C4C	-3.68	118.12	126.06
23	C	508	CLA	C1C-C2C-C3C	-3.68	103.09	106.96
23	C	503	CLA	C1C-C2C-C3C	-3.68	103.09	106.96
38	e	103	HEM	C1B-NB-C4B	3.68	108.87	105.07
23	C	511	CLA	C4-C3-C5	3.67	121.45	115.27
23	C	502	CLA	C1-C2-C3	-3.66	119.70	126.04
23	b	609	CLA	O2D-CGD-O1D	-3.66	116.67	123.84
34	c	520	LMG	O7-C10-C11	3.66	119.38	111.50
23	b	615	CLA	C3C-C4C-NC	3.66	114.67	110.57
25	D	406	BCR	C33-C5-C6	-3.66	120.42	124.53
23	C	508	CLA	O2D-CGD-O1D	-3.65	116.69	123.84
38	E	103	HEM	CBA-CAA-C2A	-3.65	106.39	112.62
29	d	405	PL9	C25-C24-C26	3.65	121.42	115.27
23	d	403	CLA	C1D-CHD-C4C	-3.65	118.18	126.06
23	c	512	CLA	C1-C2-C3	-3.65	119.73	126.04
23	c	506	CLA	C1D-CHD-C4C	-3.65	118.19	126.06
24	A	406	PHO	C1A-C2A-C3A	-3.65	99.37	102.84
23	C	509	CLA	C4A-NA-C1A	-3.65	105.07	106.71
23	c	501	CLA	C1D-CHD-C4C	-3.64	118.19	126.06
37	C	518	DGD	O2G-C1B-C2B	3.64	119.36	111.50
35	M	101	LMT	O1'-C1'-C2'	3.64	113.99	108.30
23	B	613	CLA	C3B-C4B-NB	3.64	113.92	109.21
23	b	609	CLA	C1D-CHD-C4C	-3.63	118.22	126.06
26	L	102	SQD	O7-S-C6	3.63	111.26	106.94
23	c	505	CLA	C1D-CHD-C4C	-3.63	118.22	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	601	CLA	C3C-C4C-NC	3.63	114.64	110.57
35	B	623	LMT	O5'-C5'-C4'	3.63	117.40	109.75
23	b	601	CLA	C1C-C2C-C3C	-3.62	103.15	106.96
23	b	608	CLA	C1D-CHD-C4C	-3.62	118.24	126.06
23	c	504	CLA	C4A-NA-C1A	-3.62	105.08	106.71
23	D	401	CLA	CMC-C2C-C1C	3.62	130.56	125.04
35	C	522	LMT	C1'-O5'-C5'	3.62	120.80	113.69
26	A	411	SQD	O47-C7-C8	3.62	119.30	111.50
23	a	404	CLA	C3B-C4B-NB	3.62	113.89	109.21
23	b	616	CLA	C3B-C4B-NB	3.62	113.89	109.21
23	b	606	CLA	C1C-C2C-C3C	-3.62	103.15	106.96
29	a	415	PL9	C15-C14-C16	3.62	121.35	115.27
23	B	602	CLA	C1C-C2C-C3C	-3.61	103.16	106.96
23	C	510	CLA	C1D-CHD-C4C	-3.61	118.27	126.06
23	b	614	CLA	C1-C2-C3	-3.61	119.80	126.04
31	d	408	LHG	O7-C7-C8	3.61	119.28	111.50
37	H	102	DGD	O2G-C1B-C2B	3.61	119.28	111.50
23	B	612	CLA	CMC-C2C-C1C	3.61	130.53	125.04
23	C	506	CLA	C1C-C2C-C3C	-3.61	103.16	106.96
23	C	507	CLA	C3C-C4C-NC	3.61	114.62	110.57
34	C	501	LMG	C7-O1-C1	-3.61	106.69	113.74
23	B	609	CLA	C1C-C2C-C3C	-3.61	103.17	106.96
26	a	411	SQD	C1-C2-C3	-3.61	102.49	110.00
23	C	512	CLA	C3B-C4B-NB	3.60	113.86	109.21
23	c	504	CLA	C1D-CHD-C4C	-3.60	118.29	126.06
34	Z	101	LMG	C1-C2-C3	3.59	117.48	110.00
25	c	514	BCR	C11-C10-C9	-3.59	122.19	127.31
23	a	404	CLA	C3C-C4C-NC	3.59	114.59	110.57
23	B	617	CLA	C4C-C3C-C2C	-3.59	101.67	106.90
23	B	612	CLA	CHD-C4C-NC	3.59	129.85	124.20
25	C	515	BCR	C33-C5-C6	-3.59	120.50	124.53
23	B	602	CLA	C1D-CHD-C4C	-3.58	118.33	126.06
25	Y	101	BCR	C15-C14-C13	-3.58	122.20	127.31
23	A	404	CLA	CAA-C2A-C3A	-3.58	102.98	112.78
23	a	409	CLA	C3B-C4B-NB	3.58	113.83	109.21
23	B	614	CLA	CMB-C2B-C3B	3.58	131.37	124.68
23	a	404	CLA	CAA-C2A-C3A	-3.57	102.99	112.78
38	e	103	HEM	C4D-ND-C1D	3.57	108.76	105.07
23	b	613	CLA	C1C-C2C-C3C	-3.57	103.21	106.96
23	c	501	CLA	C1C-C2C-C3C	-3.57	103.21	106.96
23	B	613	CLA	O2D-CGD-O1D	-3.56	116.87	123.84
23	b	614	CLA	O2D-CGD-O1D	-3.56	116.87	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	A	409	SQD	O7-S-C6	3.56	111.17	106.94
23	c	507	CLA	C1C-C2C-C3C	-3.56	103.22	106.96
23	C	507	CLA	C1-C2-C3	-3.55	119.90	126.04
23	c	509	CLA	C1C-C2C-C3C	-3.55	103.22	106.96
23	b	605	CLA	O2D-CGD-O1D	-3.55	116.89	123.84
23	B	603	CLA	CAA-C2A-C3A	-3.55	103.05	112.78
23	a	409	CLA	C3C-C4C-NC	3.55	114.55	110.57
23	c	508	CLA	O2D-CGD-O1D	-3.55	116.90	123.84
23	c	508	CLA	C1D-CHD-C4C	-3.55	118.40	126.06
23	b	612	CLA	C1C-C2C-C3C	-3.55	103.23	106.96
23	a	409	CLA	C4-C3-C5	3.55	121.24	115.27
34	C	521	LMG	C3-C4-C5	3.55	116.57	110.24
25	B	619	BCR	C29-C30-C25	3.55	115.94	110.48
23	B	614	CLA	CMC-C2C-C1C	3.53	130.42	125.04
23	c	511	CLA	C4A-NA-C1A	-3.53	105.12	106.71
23	B	607	CLA	O2D-CGD-O1D	-3.53	116.93	123.84
23	C	503	CLA	C1D-CHD-C4C	-3.53	118.44	126.06
25	b	619	BCR	C24-C23-C22	-3.53	120.90	126.23
23	d	402	CLA	C3B-C4B-NB	3.53	113.77	109.21
25	B	618	BCR	C16-C17-C18	-3.53	122.27	127.31
35	D	403	LMT	C1'-O5'-C5'	3.52	120.60	113.69
23	B	615	CLA	C3B-C4B-NB	3.52	113.76	109.21
31	d	406	LHG	O7-C7-C8	3.52	119.08	111.50
23	A	405	CLA	C3C-C4C-NC	3.51	114.51	110.57
36	V	203	HTG	C1-C2-C3	3.51	113.99	109.67
25	T	101	BCR	C12-C13-C14	-3.51	113.55	118.94
23	D	405	CLA	O2D-CGD-O1D	-3.51	116.98	123.84
29	A	413	PL9	C37-C38-C39	-3.51	119.21	127.66
23	C	513	CLA	C1C-C2C-C3C	-3.51	103.27	106.96
23	c	506	CLA	CAC-C3C-C4C	3.50	129.36	124.81
23	B	611	CLA	C4C-C3C-C2C	-3.50	101.79	106.90
23	B	612	CLA	C3B-C4B-NB	3.50	113.74	109.21
23	D	401	CLA	C3C-C4C-NC	3.50	114.50	110.57
25	t	101	BCR	C12-C13-C14	-3.50	113.58	118.94
24	a	407	PHO	O2D-CGD-O1D	-3.49	117.01	123.84
34	z	101	LMG	O7-C10-C11	3.49	119.03	111.50
23	b	611	CLA	CHC-C1C-C2C	-3.49	117.07	126.72
23	C	512	CLA	C1D-CHD-C4C	-3.49	118.53	126.06
23	b	615	CLA	CHC-C1C-C2C	-3.48	117.09	126.72
37	c	517	DGD	O2G-C1B-C2B	3.48	119.00	111.50
23	C	506	CLA	C3B-C4B-NB	3.48	113.71	109.21
40	V	202	HEC	CBA-CAA-C2A	-3.48	106.74	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	T	101	BCR	C15-C14-C13	3.48	132.27	127.31
36	c	522	HTG	C1-O5-C5	3.47	118.99	112.58
23	C	514	CLA	O2D-CGD-O1D	-3.47	117.05	123.84
25	b	619	BCR	C10-C11-C12	-3.47	112.39	123.22
29	A	413	PL9	C32-C33-C34	-3.47	119.31	127.66
23	A	404	CLA	CMC-C2C-C1C	3.47	130.32	125.04
23	c	502	CLA	C1-C2-C3	-3.47	120.05	126.04
23	C	504	CLA	C1C-C2C-C3C	-3.47	103.31	106.96
23	c	511	CLA	C1C-C2C-C3C	-3.47	103.31	106.96
23	b	603	CLA	C3B-C4B-NB	3.47	113.69	109.21
23	B	605	CLA	C1D-CHD-C4C	-3.46	118.59	126.06
29	a	415	PL9	C42-C43-C44	-3.46	119.33	127.66
34	C	521	LMG	O6-C5-C4	3.46	115.97	109.69
25	D	406	BCR	C24-C23-C22	-3.46	121.01	126.23
25	b	618	BCR	C7-C8-C9	-3.45	121.02	126.23
23	a	406	CLA	C1-C2-C3	-3.45	120.07	126.04
23	B	614	CLA	C1D-CHD-C4C	-3.45	118.61	126.06
23	B	615	CLA	C3C-C4C-NC	3.45	114.44	110.57
23	a	406	CLA	C3B-C4B-NB	3.45	113.67	109.21
37	h	103	DGD	O1G-C1A-C2A	3.45	122.73	111.91
23	c	505	CLA	C4C-C3C-C2C	-3.45	101.87	106.90
23	b	610	CLA	C1C-C2C-C3C	-3.45	103.33	106.96
23	c	503	CLA	C1C-C2C-C3C	-3.45	103.33	106.96
25	a	410	BCR	C15-C14-C13	-3.45	122.39	127.31
25	B	618	BCR	C28-C27-C26	-3.44	107.93	114.08
29	a	415	PL9	C30-C29-C31	3.44	121.06	115.27
34	j	101	LMG	O7-C10-C11	3.44	118.92	111.50
23	c	506	CLA	C1C-C2C-C3C	-3.44	103.34	106.96
23	b	605	CLA	C3B-C4B-NB	3.44	113.66	109.21
25	h	102	BCR	C16-C17-C18	-3.44	122.40	127.31
23	c	511	CLA	C3B-C4B-NB	3.43	113.65	109.21
29	d	405	PL9	C20-C19-C21	3.43	121.05	115.27
25	b	619	BCR	C38-C26-C25	-3.43	120.67	124.53
29	d	405	PL9	C22-C23-C24	-3.43	119.39	127.66
23	a	405	CLA	CAA-C2A-C3A	-3.43	103.38	112.78
23	A	405	CLA	C1D-CHD-C4C	-3.43	118.66	126.06
23	b	613	CLA	O2D-CGD-CBD	3.43	117.36	111.27
23	B	614	CLA	O2D-CGD-CBD	3.43	117.36	111.27
23	B	606	CLA	C4C-C3C-C2C	-3.42	101.91	106.90
23	B	616	CLA	C3B-C4B-NB	3.42	113.63	109.21
26	a	411	SQD	O8-S-C6	3.42	111.19	105.74
23	a	406	CLA	C1C-C2C-C3C	-3.42	103.36	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	603	CLA	C1D-CHD-C4C	-3.42	118.69	126.06
23	a	405	CLA	C3C-C4C-NC	3.42	114.40	110.57
25	t	101	BCR	C37-C22-C23	3.41	123.46	118.08
23	d	402	CLA	C1-C2-C3	-3.41	120.14	126.04
23	B	608	CLA	C1D-CHD-C4C	-3.41	118.69	126.06
23	C	512	CLA	C1C-C2C-C3C	-3.41	103.37	106.96
23	d	402	CLA	C1D-CHD-C4C	-3.41	118.71	126.06
23	b	603	CLA	CAA-C2A-C3A	-3.41	103.45	112.78
23	B	609	CLA	C3B-C4B-NB	3.40	113.61	109.21
23	B	614	CLA	C3B-C4B-NB	3.40	113.61	109.21
25	y	101	BCR	C15-C14-C13	-3.40	122.45	127.31
23	B	609	CLA	CHD-C4C-NC	3.40	129.56	124.20
24	a	407	PHO	O2A-CGA-CBA	3.40	122.58	111.91
23	A	407	CLA	C1D-CHD-C4C	-3.40	118.72	126.06
23	C	511	CLA	CHC-C1C-C2C	-3.40	117.32	126.72
23	B	604	CLA	C1C-C2C-C3C	-3.40	103.38	106.96
23	a	409	CLA	C1C-C2C-C3C	-3.40	103.39	106.96
23	c	504	CLA	CAC-C3C-C4C	3.39	129.21	124.81
23	b	615	CLA	C11-C10-C8	-3.39	104.97	115.92
23	B	613	CLA	C4C-C3C-C2C	-3.39	101.96	106.90
25	C	527	BCR	C11-C10-C9	-3.39	122.48	127.31
25	a	410	BCR	C20-C21-C22	-3.39	122.48	127.31
23	b	609	CLA	C1C-C2C-C3C	-3.38	103.40	106.96
23	c	508	CLA	C3B-C4B-NB	3.38	113.58	109.21
34	C	520	LMG	O7-C10-C11	3.38	118.78	111.50
23	b	616	CLA	C4C-C3C-C2C	-3.38	101.97	106.90
23	B	615	CLA	CHC-C1C-C2C	-3.37	117.39	126.72
29	a	415	PL9	C22-C23-C24	-3.37	119.54	127.66
38	e	103	HEM	CHD-C1D-ND	3.37	128.09	124.43
23	C	503	CLA	O2D-CGD-O1D	-3.37	117.25	123.84
23	B	604	CLA	O2A-CGA-O1A	-3.37	115.09	123.59
34	m	101	LMG	O7-C10-C11	3.37	118.75	111.50
23	b	604	CLA	CMC-C2C-C1C	3.37	130.16	125.04
23	b	614	CLA	C3B-C4B-NB	3.36	113.56	109.21
23	c	508	CLA	CMB-C2B-C3B	3.36	130.97	124.68
23	C	505	CLA	C4A-NA-C1A	-3.36	105.19	106.71
23	A	404	CLA	O2A-CGA-O1A	-3.36	115.11	123.59
23	a	406	CLA	CHD-C4C-NC	3.36	129.50	124.20
23	B	608	CLA	CMC-C2C-C1C	3.36	130.15	125.04
23	C	511	CLA	C3C-C4C-NC	3.35	114.33	110.57
23	b	612	CLA	C3B-C4B-NB	3.35	113.54	109.21
23	b	612	CLA	O2A-CGA-CBA	3.35	122.42	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	A	407	CLA	C3B-C4B-NB	3.35	113.54	109.21
23	C	507	CLA	C1D-CHD-C4C	-3.34	118.84	126.06
23	C	512	CLA	C4-C3-C5	3.34	120.89	115.27
25	b	618	BCR	C37-C22-C21	-3.34	118.24	122.92
23	B	616	CLA	CED-O2D-CGD	3.34	123.49	115.94
23	A	404	CLA	O2D-CGD-CBD	3.33	117.19	111.27
23	c	510	CLA	CBC-CAC-C3C	-3.33	103.25	112.43
26	a	413	SQD	O48-C23-C24	3.33	122.36	111.91
23	c	509	CLA	C1-O2A-CGA	3.33	125.18	116.44
26	A	409	SQD	C45-O47-C7	-3.33	109.60	117.79
25	h	102	BCR	C38-C26-C25	-3.33	120.79	124.53
23	C	504	CLA	C4-C3-C5	3.32	120.85	115.27
25	A	408	BCR	C38-C26-C25	-3.32	120.80	124.53
23	c	512	CLA	CMA-C3A-C4A	-3.32	102.86	111.77
23	C	509	CLA	C1C-C2C-C3C	-3.31	103.47	106.96
23	C	502	CLA	C3B-C4B-NB	3.31	113.49	109.21
29	A	413	PL9	C30-C29-C31	3.31	120.84	115.27
23	c	502	CLA	C3B-C4B-NB	3.31	113.49	109.21
23	C	506	CLA	C1-C2-C3	-3.30	120.33	126.04
23	c	502	CLA	CHD-C4C-NC	3.30	129.41	124.20
23	B	610	CLA	C1D-CHD-C4C	-3.30	118.94	126.06
23	b	604	CLA	C1-C2-C3	-3.30	120.34	126.04
23	C	514	CLA	C1C-C2C-C3C	-3.30	103.49	106.96
23	B	609	CLA	C4C-C3C-C2C	-3.30	102.09	106.90
23	c	510	CLA	C3B-C4B-NB	3.29	113.46	109.21
23	b	607	CLA	CAA-C2A-C3A	-3.29	103.78	112.78
23	b	609	CLA	O2A-CGA-CBA	3.29	122.22	111.91
23	B	617	CLA	CHD-C4C-NC	3.28	129.38	124.20
23	c	509	CLA	C3B-C4B-NB	3.28	113.45	109.21
23	c	506	CLA	C1-C2-C3	-3.28	120.37	126.04
23	B	615	CLA	CBC-CAC-C3C	-3.28	103.39	112.43
23	D	405	CLA	C4C-C3C-C2C	-3.28	102.12	106.90
29	A	413	PL9	C15-C14-C16	3.27	120.78	115.27
23	C	504	CLA	C3B-C4B-NB	3.27	113.44	109.21
23	C	510	CLA	C1C-C2C-C3C	-3.27	103.52	106.96
23	c	501	CLA	C1-C2-C3	-3.26	120.40	126.04
23	B	605	CLA	C3B-C4B-NB	3.26	113.43	109.21
38	e	103	HEM	CHA-C4D-ND	3.26	128.41	124.38
36	b	625	HTG	C1-O5-C5	3.26	118.59	112.58
23	b	606	CLA	C3B-C4B-NB	3.26	113.42	109.21
23	B	603	CLA	O2D-CGD-O1D	-3.26	117.47	123.84
23	A	404	CLA	CMB-C2B-C3B	3.26	130.77	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	b	618	BCR	C38-C26-C25	-3.26	120.87	124.53
23	c	510	CLA	CMC-C2C-C1C	3.26	130.00	125.04
23	B	613	CLA	C1C-C2C-C3C	-3.26	103.53	106.96
23	d	403	CLA	CMC-C2C-C1C	3.25	130.00	125.04
25	B	619	BCR	C37-C22-C21	-3.25	118.36	122.92
23	C	502	CLA	CBC-CAC-C3C	-3.25	103.47	112.43
23	D	405	CLA	CHD-C4C-NC	3.25	129.33	124.20
25	B	620	BCR	C38-C26-C25	-3.25	120.88	124.53
25	A	408	BCR	C24-C23-C22	-3.25	121.33	126.23
23	b	616	CLA	C1C-C2C-C3C	-3.24	103.55	106.96
23	A	405	CLA	C3B-C4B-NB	3.24	113.40	109.21
23	c	505	CLA	C1C-C2C-C3C	-3.24	103.55	106.96
23	B	617	CLA	C3B-C4B-NB	3.24	113.39	109.21
23	c	503	CLA	C1-C2-C3	-3.23	120.45	126.04
23	B	602	CLA	C1-C2-C3	-3.23	120.46	126.04
23	c	510	CLA	C3C-C4C-NC	3.23	114.19	110.57
23	C	504	CLA	CHC-C1C-C2C	-3.23	117.79	126.72
23	c	512	CLA	O2D-CGD-O1D	-3.23	117.53	123.84
23	C	513	CLA	O2A-CGA-CBA	3.23	122.03	111.91
23	a	409	CLA	CAC-C3C-C4C	3.22	128.99	124.81
23	c	503	CLA	O2D-CGD-O1D	-3.22	117.54	123.84
29	D	407	PL9	C53-C6-C1	3.22	121.57	114.99
23	b	601	CLA	C4-C3-C5	3.22	120.68	115.27
23	b	612	CLA	O2D-CGD-O1D	-3.22	117.55	123.84
31	d	407	LHG	O7-C7-C8	3.22	118.43	111.50
31	e	101	LHG	O7-C7-C8	3.22	118.43	111.50
23	B	611	CLA	O2A-CGA-CBA	3.22	122.00	111.91
23	C	511	CLA	O2D-CGD-O1D	-3.22	117.55	123.84
23	c	507	CLA	O2D-CGD-O1D	-3.22	117.55	123.84
23	c	512	CLA	C4-C3-C5	3.21	120.67	115.27
35	b	628	LMT	C1'-O5'-C5'	3.21	119.99	113.69
23	c	507	CLA	C1D-CHD-C4C	-3.21	119.14	126.06
23	B	605	CLA	O2A-CGA-CBA	3.21	121.98	111.91
23	B	609	CLA	C1-C2-C3	-3.21	120.50	126.04
23	b	604	CLA	O2A-CGA-CBA	3.21	121.97	111.91
40	v	201	HEC	CBA-CAA-C2A	-3.21	107.20	112.60
23	c	510	CLA	CAC-C3C-C4C	3.20	128.97	124.81
23	D	404	CLA	O2A-CGA-CBA	3.20	121.96	111.91
23	a	405	CLA	CHC-C1C-C2C	-3.20	117.86	126.72
24	D	402	PHO	C1A-C2A-C3A	-3.20	99.79	102.84
23	b	610	CLA	O2A-CGA-CBA	3.20	121.95	111.91
23	c	503	CLA	C3B-C4B-NB	3.20	113.35	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	607	CLA	CAC-C3C-C4C	3.20	128.96	124.81
23	a	409	CLA	O2D-CGD-O1D	-3.20	117.58	123.84
23	d	403	CLA	C1C-C2C-C3C	-3.20	103.59	106.96
35	b	628	LMT	O5'-C1'-C2'	3.20	117.12	110.35
23	d	403	CLA	CHD-C4C-NC	3.20	129.24	124.20
23	B	602	CLA	C3B-C4B-NB	3.20	113.34	109.21
23	B	603	CLA	C3B-C4B-NB	3.20	113.34	109.21
23	D	404	CLA	C3B-C4B-NB	3.20	113.34	109.21
23	c	505	CLA	O2D-CGD-O1D	-3.20	117.59	123.84
23	B	615	CLA	C4-C3-C5	3.19	120.64	115.27
29	A	413	PL9	C27-C28-C29	-3.19	119.97	127.66
23	C	503	CLA	C3B-C4B-NB	3.19	113.34	109.21
23	b	616	CLA	CHC-C1C-C2C	-3.19	117.90	126.72
23	b	608	CLA	CHD-C4C-NC	3.19	129.23	124.20
23	b	614	CLA	O2A-CGA-CBA	3.19	121.91	111.91
25	t	101	BCR	C3-C4-C5	-3.19	108.39	114.08
23	b	603	CLA	O2D-CGD-O1D	-3.19	117.61	123.84
23	D	405	CLA	CMC-C2C-C1C	3.18	129.89	125.04
29	A	413	PL9	C22-C23-C24	-3.18	120.01	127.66
23	B	615	CLA	O2A-CGA-O1A	-3.18	115.57	123.59
24	A	406	PHO	O1D-CGD-CBD	-3.18	119.45	124.74
23	C	507	CLA	C4-C3-C5	3.17	120.61	115.27
23	b	605	CLA	CAC-C3C-C4C	3.17	128.92	124.81
23	B	617	CLA	O2D-CGD-O1D	-3.17	117.64	123.84
34	Z	101	LMG	C4-C3-C2	3.17	116.35	110.82
23	b	607	CLA	C4C-C3C-C2C	-3.17	102.28	106.90
23	B	610	CLA	C4C-C3C-C2C	-3.16	102.28	106.90
29	a	415	PL9	C37-C38-C39	-3.16	120.04	127.66
23	c	502	CLA	CBC-CAC-C3C	-3.16	103.71	112.43
23	D	401	CLA	CAA-C2A-C3A	-3.16	104.12	112.78
23	b	613	CLA	CMB-C2B-C3B	3.16	130.59	124.68
23	C	510	CLA	C4C-C3C-C2C	-3.15	102.30	106.90
23	B	604	CLA	O2A-CGA-CBA	3.15	121.80	111.91
23	b	608	CLA	O2D-CGD-O1D	-3.15	117.68	123.84
25	k	101	BCR	C29-C30-C25	3.15	115.33	110.48
23	C	514	CLA	C2A-C1A-CHA	-3.15	118.36	123.86
23	b	614	CLA	C1C-C2C-C3C	-3.14	103.65	106.96
23	a	405	CLA	C4A-NA-C1A	-3.14	105.29	106.71
23	B	614	CLA	CAC-C3C-C4C	3.14	128.89	124.81
23	B	611	CLA	CHD-C4C-NC	3.14	129.15	124.20
23	C	507	CLA	CAC-C3C-C4C	3.14	128.88	124.81
23	D	404	CLA	C1D-CHD-C4C	-3.14	119.29	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	A	409	SQD	O48-C23-C24	3.14	121.75	111.91
23	c	501	CLA	CHC-C1C-C2C	-3.14	118.05	126.72
23	a	406	CLA	C4C-C3C-C2C	-3.14	102.33	106.90
23	B	604	CLA	C4-C3-C5	3.13	120.54	115.27
25	Y	101	BCR	C16-C15-C14	-3.13	117.06	123.47
24	A	406	PHO	CMB-C2B-C3B	3.13	130.53	124.68
23	b	609	CLA	CBC-CAC-C3C	-3.12	103.82	112.43
23	C	506	CLA	C4C-C3C-C2C	-3.12	102.34	106.90
23	B	615	CLA	O2A-CGA-CBA	3.12	121.71	111.91
26	a	413	SQD	O47-C7-C8	3.12	118.23	111.50
23	b	613	CLA	C4C-C3C-C2C	-3.12	102.35	106.90
23	c	511	CLA	C4-C3-C5	3.12	120.52	115.27
23	C	508	CLA	C4C-C3C-C2C	-3.12	102.35	106.90
26	a	411	SQD	C45-O47-C7	-3.12	110.11	117.79
34	Z	101	LMG	C3-C4-C5	3.12	115.80	110.24
25	y	101	BCR	C40-C30-C25	-3.12	105.25	110.30
23	a	409	CLA	CAA-C2A-C3A	-3.11	104.25	112.78
23	C	513	CLA	CHD-C4C-NC	3.11	129.11	124.20
25	H	101	BCR	C38-C26-C25	-3.11	121.03	124.53
23	B	611	CLA	C1C-C2C-C3C	-3.11	103.68	106.96
34	m	101	LMG	O8-C28-C29	3.11	121.68	111.91
23	B	616	CLA	CMC-C2C-C1C	3.11	129.78	125.04
23	b	610	CLA	C4C-C3C-C2C	-3.11	102.36	106.90
23	B	613	CLA	CAC-C3C-C4C	3.11	128.84	124.81
23	a	404	CLA	O2D-CGD-CBD	3.11	116.79	111.27
23	B	607	CLA	C3B-C4B-NB	3.11	113.23	109.21
29	A	413	PL9	C20-C19-C21	3.11	120.50	115.27
23	D	405	CLA	C3B-C4B-NB	3.11	113.22	109.21
23	c	513	CLA	CAA-C2A-C3A	-3.11	104.27	112.78
23	b	602	CLA	CHD-C4C-NC	3.11	129.10	124.20
23	B	606	CLA	CHD-C4C-NC	3.10	129.09	124.20
23	c	501	CLA	C3B-C4B-NB	3.10	113.22	109.21
23	C	512	CLA	CMC-C2C-C1C	3.10	129.76	125.04
25	C	527	BCR	C24-C23-C22	-3.10	121.55	126.23
23	c	505	CLA	C3B-C4B-NB	3.10	113.22	109.21
23	b	608	CLA	C3B-C4B-NB	3.10	113.21	109.21
31	A	415	LHG	O8-C23-O10	-3.09	115.79	123.59
23	b	616	CLA	CAC-C3C-C4C	3.09	128.82	124.81
23	b	613	CLA	O2A-CGA-CBA	3.09	121.61	111.91
23	C	514	CLA	C1-C2-C3	-3.09	120.70	126.04
23	c	506	CLA	CHC-C1C-C2C	-3.09	118.17	126.72
23	b	606	CLA	CHD-C4C-NC	3.09	129.07	124.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	504	CLA	CMB-C2B-C3B	3.09	130.46	124.68
23	c	507	CLA	CMC-C2C-C1C	3.09	129.74	125.04
23	b	602	CLA	C3B-C4B-NB	3.09	113.20	109.21
23	B	605	CLA	C4C-C3C-C2C	-3.08	102.40	106.90
23	b	605	CLA	CHD-C4C-NC	3.08	129.06	124.20
23	C	502	CLA	CHC-C1C-C2C	-3.08	118.19	126.72
23	A	404	CLA	C3B-C4B-NB	3.08	113.19	109.21
23	b	614	CLA	C4C-C3C-C2C	-3.08	102.41	106.90
23	b	601	CLA	CHD-C4C-NC	3.08	129.06	124.20
25	c	515	BCR	C11-C10-C9	-3.08	122.92	127.31
23	a	405	CLA	CHD-C4C-NC	3.07	129.05	124.20
23	b	603	CLA	O2A-CGA-CBA	3.07	121.55	111.91
23	B	615	CLA	CAC-C3C-C4C	3.07	128.80	124.81
23	C	510	CLA	CAC-C3C-C4C	3.07	128.80	124.81
23	d	402	CLA	O2A-CGA-CBA	3.07	121.55	111.91
38	E	103	HEM	CHB-C1B-NB	3.07	128.17	124.38
26	L	102	SQD	C3-C4-C5	3.07	115.72	110.24
23	C	509	CLA	C4-C3-C5	3.07	120.43	115.27
36	b	622	HTG	O5-C1-C2	3.07	114.17	110.31
23	c	509	CLA	O2A-CGA-CBA	3.07	121.53	111.91
23	B	605	CLA	O2D-CGD-O1D	-3.07	117.84	123.84
23	B	610	CLA	C3B-C4B-NB	3.07	113.17	109.21
23	D	404	CLA	C2A-C1A-CHA	-3.07	118.50	123.86
23	C	507	CLA	CMC-C2C-C1C	3.07	129.71	125.04
23	B	606	CLA	C1C-C2C-C3C	-3.06	103.73	106.96
23	b	612	CLA	CMB-C2B-C3B	3.06	130.41	124.68
23	C	514	CLA	CMC-C2C-C1C	3.06	129.70	125.04
25	Y	101	BCR	C37-C22-C23	3.06	122.90	118.08
23	C	504	CLA	C4C-C3C-C2C	-3.06	102.44	106.90
24	A	406	PHO	C1-O2A-CGA	3.06	124.47	116.44
23	B	616	CLA	CHD-C4C-NC	3.06	129.02	124.20
26	a	413	SQD	C3-C4-C5	3.06	115.69	110.24
23	c	511	CLA	O2D-CGD-O1D	-3.06	117.86	123.84
29	A	413	PL9	C42-C43-C44	-3.06	120.30	127.66
23	C	507	CLA	CBC-CAC-C3C	-3.06	104.00	112.43
25	a	410	BCR	C24-C23-C22	-3.05	121.62	126.23
23	c	506	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
23	c	509	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
23	c	511	CLA	CHD-C4C-NC	3.05	129.01	124.20
23	c	513	CLA	CAC-C3C-C4C	3.05	128.77	124.81
29	d	405	PL9	C35-C34-C36	3.05	120.40	115.27
23	c	513	CLA	CMC-C2C-C1C	3.05	129.68	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	c	515	BCR	C38-C26-C25	-3.05	121.10	124.53
23	b	606	CLA	C4-C3-C5	3.05	120.40	115.27
23	b	612	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
23	B	603	CLA	CHC-C1C-C2C	-3.05	118.29	126.72
23	C	512	CLA	CMB-C2B-C3B	3.05	130.38	124.68
38	e	103	HEM	CHB-C1B-NB	3.04	128.14	124.38
36	b	621	HTG	C1-O5-C5	3.04	118.19	112.58
23	C	505	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
23	D	401	CLA	C4-C3-C5	3.04	120.39	115.27
23	b	613	CLA	C3B-C4B-NB	3.04	113.14	109.21
23	b	602	CLA	CAA-C2A-C3A	-3.03	104.47	112.78
34	C	520	LMG	O8-C28-C29	3.03	121.42	111.91
23	B	612	CLA	C1-C2-C3	-3.03	120.80	126.04
23	b	613	CLA	CHD-C4C-NC	3.03	128.98	124.20
23	C	514	CLA	C4C-C3C-C2C	-3.03	102.48	106.90
23	A	404	CLA	CAA-C2A-C1A	-3.03	102.05	111.97
26	a	413	SQD	O9-S-C6	3.03	110.54	106.94
23	B	604	CLA	O2D-CGD-O1D	-3.03	117.92	123.84
23	a	404	CLA	O2A-CGA-CBA	3.03	121.41	111.91
23	b	616	CLA	O2A-CGA-CBA	3.03	121.41	111.91
23	C	503	CLA	C1-C2-C3	-3.03	120.81	126.04
23	d	402	CLA	O2D-CGD-O1D	-3.02	117.92	123.84
23	A	407	CLA	CMB-C2B-C3B	3.02	130.33	124.68
23	b	601	CLA	C3B-C4B-NB	3.02	113.11	109.21
23	c	504	CLA	CHC-C1C-C2C	-3.02	118.38	126.72
25	T	101	BCR	C35-C13-C12	3.02	122.83	118.08
25	d	404	BCR	C15-C14-C13	-3.02	123.01	127.31
23	a	404	CLA	O2A-CGA-O1A	-3.01	115.99	123.59
23	a	405	CLA	C1-C2-C3	-3.01	120.83	126.04
23	C	509	CLA	CHC-C1C-C2C	-3.01	118.39	126.72
25	b	618	BCR	C20-C21-C22	-3.01	123.01	127.31
23	C	511	CLA	O2A-CGA-CBA	3.01	121.36	111.91
23	b	602	CLA	CMC-C2C-C1C	3.01	129.62	125.04
23	B	608	CLA	CAA-C2A-C3A	-3.01	104.55	112.78
25	B	620	BCR	C15-C14-C13	-3.00	123.02	127.31
23	c	502	CLA	CMB-C2B-C3B	3.00	130.30	124.68
23	c	506	CLA	C4-C3-C5	3.00	120.32	115.27
34	c	519	LMG	O8-C28-C29	3.00	121.32	111.91
23	a	406	CLA	CHC-C1C-C2C	-3.00	118.43	126.72
25	B	620	BCR	C7-C8-C9	-3.00	121.70	126.23
23	B	604	CLA	CAA-C2A-C3A	-3.00	104.57	112.78
23	C	513	CLA	CMC-C2C-C1C	2.99	129.60	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	604	CLA	C3B-C4B-NB	2.99	113.08	109.21
23	c	512	CLA	CHD-C4C-NC	2.99	128.92	124.20
23	B	604	CLA	C3B-C4B-NB	2.99	113.08	109.21
23	D	404	CLA	C4C-C3C-C2C	-2.99	102.54	106.90
23	b	603	CLA	CHD-C4C-NC	2.99	128.91	124.20
23	b	605	CLA	O2A-CGA-CBA	2.98	121.27	111.91
23	A	407	CLA	CHD-C4C-NC	2.98	128.91	124.20
31	D	408	LHG	O8-C23-O10	-2.98	116.07	123.59
23	b	616	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
23	c	506	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
25	c	515	BCR	C3-C4-C5	-2.98	108.75	114.08
23	B	607	CLA	O2A-CGA-CBA	2.98	121.26	111.91
37	C	517	DGD	O6D-C1D-O3G	-2.98	102.92	109.97
23	B	611	CLA	CAA-C2A-C3A	-2.98	104.62	112.78
24	D	402	PHO	O2D-CGD-O1D	-2.98	118.02	123.84
23	b	611	CLA	C4C-C3C-C2C	-2.98	102.56	106.90
23	B	616	CLA	CHC-C1C-C2C	-2.98	118.49	126.72
23	c	513	CLA	C3B-C4B-NB	2.98	113.06	109.21
36	B	624	HTG	C1'-S1-C1	2.98	105.66	100.09
23	B	604	CLA	CHD-C4C-NC	2.97	128.89	124.20
23	B	616	CLA	CAC-C3C-C4C	2.97	128.67	124.81
23	C	502	CLA	C4-C3-C5	2.97	120.27	115.27
23	D	404	CLA	CMC-C2C-C1C	2.97	129.56	125.04
25	A	408	BCR	C11-C10-C9	-2.97	123.07	127.31
23	b	610	CLA	C4-C3-C5	2.97	120.27	115.27
23	B	605	CLA	O2A-CGA-O1A	-2.97	116.10	123.59
23	B	603	CLA	C4C-C3C-C2C	-2.97	102.57	106.90
35	M	101	LMT	C1-O1'-C1'	-2.97	108.92	113.84
29	a	415	PL9	C25-C24-C26	2.97	120.26	115.27
23	b	601	CLA	O2D-CGD-O1D	-2.97	118.04	123.84
23	D	405	CLA	C1C-C2C-C3C	-2.97	103.84	106.96
34	m	101	LMG	C7-O1-C1	-2.96	107.95	113.74
24	a	408	PHO	CMB-C2B-C3B	2.96	130.22	124.68
25	T	101	BCR	C16-C15-C14	2.96	129.54	123.47
23	b	609	CLA	CHD-C4C-NC	2.96	128.87	124.20
23	d	403	CLA	C4C-C3C-C2C	-2.96	102.58	106.90
24	D	402	PHO	C6-C5-C3	-2.96	105.69	113.45
23	d	403	CLA	O2A-CGA-CBA	2.96	121.19	111.91
23	c	503	CLA	C4C-C3C-C2C	-2.96	102.58	106.90
25	h	102	BCR	C7-C8-C9	-2.96	121.77	126.23
38	E	103	HEM	CBD-CAD-C3D	-2.96	104.42	112.63
23	c	501	CLA	C4C-C3C-C2C	-2.95	102.59	106.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	D	404	CLA	C4-C3-C5	2.95	120.24	115.27
23	c	508	CLA	C4C-C3C-C2C	-2.95	102.60	106.90
23	B	613	CLA	C4-C3-C5	2.95	120.23	115.27
23	C	512	CLA	C4C-C3C-C2C	-2.95	102.60	106.90
25	c	515	BCR	C2-C1-C6	2.95	115.02	110.48
23	c	508	CLA	O2A-CGA-CBA	2.95	121.16	111.91
23	c	504	CLA	C4C-C3C-C2C	-2.95	102.60	106.90
23	B	614	CLA	C4-C3-C5	2.95	120.23	115.27
23	a	406	CLA	CAA-C2A-C3A	-2.94	104.71	112.78
25	a	410	BCR	C37-C22-C21	-2.94	118.80	122.92
23	C	510	CLA	CHD-C4C-NC	2.94	128.84	124.20
23	D	404	CLA	O2D-CGD-O1D	-2.94	118.08	123.84
23	b	610	CLA	CAA-C2A-C3A	-2.94	104.72	112.78
23	b	605	CLA	CHC-C1C-C2C	-2.94	118.58	126.72
23	B	602	CLA	C4C-C3C-C2C	-2.94	102.61	106.90
23	c	510	CLA	O2A-CGA-CBA	2.94	121.13	111.91
23	B	616	CLA	CBC-CAC-C3C	-2.94	104.33	112.43
23	b	603	CLA	O2A-CGA-O1A	-2.94	116.18	123.59
23	B	602	CLA	CHD-C4C-NC	2.94	128.83	124.20
23	A	407	CLA	C4C-C3C-C2C	-2.94	102.62	106.90
23	b	615	CLA	C4C-C3C-C2C	-2.94	102.62	106.90
23	b	607	CLA	CHC-C1C-C2C	-2.94	118.60	126.72
25	C	527	BCR	C20-C21-C22	-2.94	123.12	127.31
23	A	405	CLA	O2A-CGA-O1A	-2.93	116.19	123.59
23	b	605	CLA	CMC-C2C-C1C	2.93	129.51	125.04
23	C	514	CLA	CAC-C3C-C4C	2.93	128.61	124.81
23	D	404	CLA	O2A-CGA-O1A	-2.93	116.20	123.59
23	b	602	CLA	C1-C2-C3	-2.93	120.98	126.04
23	C	505	CLA	CHC-C1C-C2C	-2.93	118.62	126.72
31	D	409	LHG	O8-C23-C24	2.93	121.10	111.91
23	B	610	CLA	O2A-CGA-CBA	2.93	121.09	111.91
23	B	607	CLA	C4C-C3C-C2C	-2.93	102.63	106.90
23	b	605	CLA	C2A-C1A-CHA	-2.92	118.75	123.86
23	c	510	CLA	C4-C3-C5	2.92	120.19	115.27
23	d	403	CLA	CAC-C3C-C4C	2.92	128.60	124.81
37	h	103	DGD	O1G-C1A-O1A	-2.92	116.22	123.59
23	A	405	CLA	CHC-C1C-C2C	-2.92	118.66	126.72
23	B	604	CLA	C4C-C3C-C2C	-2.92	102.65	106.90
23	C	504	CLA	O2A-CGA-CBA	2.91	121.05	111.91
25	C	516	BCR	C33-C5-C6	-2.91	121.26	124.53
23	c	512	CLA	C4C-C3C-C2C	-2.91	102.66	106.90
23	b	611	CLA	O2A-CGA-CBA	2.91	121.04	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	613	CLA	CMC-C2C-C1C	2.91	129.47	125.04
23	c	510	CLA	CHC-C1C-C2C	-2.91	118.68	126.72
23	B	602	CLA	O2A-CGA-CBA	2.91	121.03	111.91
34	z	101	LMG	O8-C28-C29	2.91	121.03	111.91
23	c	507	CLA	C1-C2-C3	-2.91	121.01	126.04
23	b	609	CLA	CAC-C3C-C4C	2.91	128.58	124.81
23	B	603	CLA	CAC-C3C-C4C	2.91	128.58	124.81
23	b	604	CLA	C4C-C3C-C2C	-2.90	102.66	106.90
23	b	608	CLA	C4C-C3C-C2C	-2.90	102.66	106.90
23	C	509	CLA	CMB-C2B-C3B	2.90	130.11	124.68
23	c	511	CLA	C4C-C3C-C2C	-2.90	102.67	106.90
23	b	603	CLA	CMC-C2C-C1C	2.90	129.46	125.04
23	b	605	CLA	C4C-C3C-C2C	-2.90	102.67	106.90
23	b	614	CLA	O2A-CGA-O1A	-2.90	116.27	123.59
23	c	503	CLA	CHC-C1C-C2C	-2.90	118.70	126.72
31	b	630	LHG	O8-C23-C24	2.90	121.01	111.91
23	a	404	CLA	CHD-C4C-NC	2.90	128.77	124.20
23	b	605	CLA	C4-C3-C5	2.90	120.15	115.27
25	y	101	BCR	C23-C24-C25	-2.90	119.06	127.20
23	b	610	CLA	CHD-C4C-NC	2.90	128.77	124.20
23	c	507	CLA	CAC-C3C-C4C	2.89	128.57	124.81
23	A	405	CLA	O2A-CGA-CBA	2.89	120.99	111.91
23	C	510	CLA	C3B-C4B-NB	2.89	112.95	109.21
23	b	612	CLA	C4-C3-C5	2.89	120.14	115.27
29	d	405	PL9	C36-C37-C38	-2.89	102.38	111.88
29	D	407	PL9	C12-C13-C14	-2.89	120.70	127.66
38	E	103	HEM	CHD-C1D-ND	2.89	127.57	124.43
23	C	503	CLA	CBC-CAC-C3C	-2.89	104.47	112.43
25	C	527	BCR	C3-C4-C5	-2.88	108.93	114.08
23	D	401	CLA	C1-C2-C3	-2.88	121.06	126.04
36	b	621	HTG	O5-C1-C2	2.88	113.94	110.31
23	A	405	CLA	O2D-CGD-O1D	-2.88	118.21	123.84
29	D	407	PL9	C7-C3-C4	2.88	119.22	116.88
34	J	101	LMG	O8-C28-C29	2.88	120.94	111.91
23	B	607	CLA	CHD-C4C-NC	2.88	128.74	124.20
23	C	507	CLA	C2A-C1A-CHA	-2.88	118.83	123.86
37	c	516	DGD	C2G-O2G-C1B	-2.88	110.70	117.79
23	b	604	CLA	CAC-C3C-C4C	2.87	128.54	124.81
23	c	512	CLA	CHB-C4A-NA	2.87	128.49	124.51
23	b	614	CLA	CAC-C3C-C4C	2.87	128.54	124.81
36	B	626	HTG	O5-C1-C2	2.87	113.92	110.31
23	b	609	CLA	CMC-C2C-C1C	2.87	129.41	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	507	CLA	O2A-CGA-CBA	2.87	120.91	111.91
23	A	404	CLA	CAA-CBA-CGA	-2.87	104.88	113.25
31	A	415	LHG	C5-O7-C7	-2.87	110.73	117.79
23	C	512	CLA	CHC-C1C-C2C	-2.87	118.79	126.72
23	b	612	CLA	C2A-C1A-CHA	-2.87	118.85	123.86
23	C	514	CLA	CHD-C4C-NC	2.86	128.71	124.20
23	c	510	CLA	CHD-C4C-NC	2.86	128.71	124.20
25	b	619	BCR	C39-C30-C25	-2.86	105.66	110.30
23	C	508	CLA	CMC-C2C-C1C	2.86	129.39	125.04
23	C	502	CLA	CAC-C3C-C4C	2.86	128.52	124.81
23	B	617	CLA	C1C-C2C-C3C	-2.85	103.96	106.96
36	C	524	HTG	C1-S1-C1'	2.85	110.19	100.40
37	c	518	DGD	O2G-C1B-C2B	2.85	117.65	111.50
23	c	512	CLA	CHC-C1C-C2C	-2.85	118.84	126.72
29	A	413	PL9	C17-C18-C19	-2.85	120.80	127.66
23	B	602	CLA	CHC-C1C-C2C	-2.85	118.84	126.72
25	D	406	BCR	C40-C30-C25	-2.85	105.68	110.30
23	c	511	CLA	O2A-CGA-CBA	2.85	120.84	111.91
25	B	620	BCR	C20-C21-C22	-2.85	123.25	127.31
23	b	604	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
23	C	509	CLA	C1-C2-C3	-2.84	121.12	126.04
23	B	604	CLA	CBC-CAC-C3C	-2.84	104.59	112.43
34	B	622	LMG	O8-C28-C29	2.84	120.83	111.91
23	C	507	CLA	C3B-C4B-NB	2.84	112.88	109.21
23	a	404	CLA	CHC-C1C-C2C	-2.84	118.86	126.72
25	H	101	BCR	C11-C10-C9	-2.84	123.26	127.31
23	a	409	CLA	C4C-C3C-C2C	-2.84	102.76	106.90
23	c	513	CLA	C4C-C3C-C2C	-2.84	102.76	106.90
23	b	608	CLA	CMB-C2B-C3B	2.84	129.99	124.68
23	B	605	CLA	C4-C3-C5	2.84	120.04	115.27
26	A	411	SQD	O48-C23-C24	2.84	120.81	111.91
29	D	407	PL9	C37-C38-C39	-2.84	120.83	127.66
25	A	408	BCR	C20-C21-C22	-2.83	123.26	127.31
34	c	520	LMG	O8-C28-C29	2.83	120.80	111.91
23	c	505	CLA	C1-C2-C3	-2.83	121.14	126.04
23	A	405	CLA	CBC-CAC-C3C	-2.83	104.62	112.43
25	t	101	BCR	C21-C20-C19	-2.83	114.38	123.22
25	c	514	BCR	C37-C22-C21	-2.83	118.96	122.92
23	C	511	CLA	C4C-C3C-C2C	-2.83	102.78	106.90
23	b	616	CLA	C4-C3-C5	2.83	120.03	115.27
26	A	409	SQD	O9-S-C6	2.83	110.30	106.94
23	B	605	CLA	CMC-C2C-C1C	2.83	129.34	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	508	CLA	C1-C2-C3	-2.83	121.16	126.04
23	c	501	CLA	C4-C3-C5	2.82	120.02	115.27
36	b	625	HTG	O5-C5-C4	2.82	114.82	109.69
23	b	601	CLA	CHC-C1C-C2C	-2.82	118.91	126.72
34	a	417	LMG	O6-C5-C4	2.82	114.82	109.69
25	D	406	BCR	C28-C27-C26	-2.82	109.04	114.08
23	c	504	CLA	C4-C3-C5	2.82	120.02	115.27
23	B	612	CLA	CBC-CAC-C3C	-2.82	104.65	112.43
23	b	608	CLA	CMC-C2C-C1C	2.82	129.34	125.04
23	b	605	CLA	CED-O2D-CGD	2.82	122.32	115.94
25	t	101	BCR	C1-C6-C7	2.82	123.76	115.78
23	c	506	CLA	CGD-CBD-CAD	-2.82	101.60	110.73
23	c	512	CLA	C3B-C4B-NB	2.82	112.85	109.21
37	c	516	DGD	O3G-C3G-C2G	-2.82	104.10	110.90
23	A	404	CLA	CHD-C4C-NC	2.82	128.64	124.20
23	b	606	CLA	C4C-C3C-C2C	-2.82	102.79	106.90
35	C	522	LMT	O1B-C4'-C3'	2.82	114.78	107.28
23	b	605	CLA	C1-C2-C3	-2.82	121.17	126.04
23	A	404	CLA	CAC-C3C-C4C	2.81	128.46	124.81
25	c	514	BCR	C38-C26-C25	-2.81	121.37	124.53
23	B	609	CLA	O2A-CGA-O1A	-2.81	116.50	123.59
23	C	503	CLA	CHC-C1C-C2C	-2.81	118.95	126.72
23	c	502	CLA	CHC-C1C-C2C	-2.81	118.95	126.72
23	C	507	CLA	O2D-CGD-O1D	-2.81	118.35	123.84
23	B	614	CLA	CHC-C1C-C2C	-2.81	118.96	126.72
23	b	602	CLA	C11-C10-C8	-2.80	106.86	115.92
23	d	403	CLA	O2A-CGA-O1A	-2.80	116.52	123.59
23	b	610	CLA	CMB-C2B-C3B	2.80	129.92	124.68
23	b	605	CLA	O2A-CGA-O1A	-2.80	116.53	123.59
25	k	101	BCR	C3-C4-C5	-2.80	109.08	114.08
25	y	101	BCR	C28-C27-C26	-2.80	109.08	114.08
24	D	402	PHO	CMB-C2B-C3B	2.80	129.91	124.68
23	B	613	CLA	CMB-C2B-C3B	2.80	129.91	124.68
23	c	507	CLA	C4C-C3C-C2C	-2.80	102.82	106.90
23	b	608	CLA	C1-C2-C3	-2.80	121.21	126.04
23	B	609	CLA	O2A-CGA-CBA	2.79	120.68	111.91
23	c	506	CLA	O2A-CGA-CBA	2.79	120.67	111.91
25	A	408	BCR	C7-C8-C9	-2.79	122.02	126.23
23	C	507	CLA	CHC-C1C-C2C	-2.79	119.00	126.72
23	B	617	CLA	O2A-CGA-CBA	2.79	120.67	111.91
23	B	606	CLA	C3B-C4B-NB	2.79	112.82	109.21
23	B	607	CLA	CHC-C1C-C2C	-2.79	119.01	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B	629	HTG	C1-O5-C5	2.79	117.72	112.58
31	d	406	LHG	O8-C23-O10	-2.78	116.56	123.59
23	b	612	CLA	O2A-CGA-O1A	-2.78	116.56	123.59
25	A	408	BCR	C8-C7-C6	-2.78	119.39	127.20
25	b	618	BCR	C29-C30-C25	2.78	114.76	110.48
25	c	514	BCR	C28-C27-C26	-2.78	109.11	114.08
36	b	623	HTG	O5-C1-C2	2.78	113.81	110.31
25	C	515	BCR	C7-C8-C9	-2.78	122.04	126.23
23	B	610	CLA	C1-C2-C3	-2.78	121.24	126.04
23	B	608	CLA	CED-O2D-CGD	2.78	122.22	115.94
23	C	514	CLA	C3B-C4B-NB	2.78	112.80	109.21
26	B	621	SQD	O48-C23-C24	2.78	120.62	111.91
23	b	606	CLA	CMC-C2C-C1C	2.78	129.27	125.04
31	D	408	LHG	O7-C7-C8	2.77	117.48	111.50
23	C	513	CLA	C4C-C3C-C2C	-2.77	102.85	106.90
23	C	511	CLA	CAC-C3C-C4C	2.77	128.41	124.81
23	C	503	CLA	C4C-C3C-C2C	-2.77	102.86	106.90
23	C	507	CLA	CHD-C4C-NC	2.77	128.57	124.20
23	B	615	CLA	CHD-C4C-NC	2.77	128.57	124.20
26	D	413	SQD	O47-C7-O49	-2.77	117.01	123.70
25	t	101	BCR	C20-C21-C22	-2.77	123.36	127.31
23	B	613	CLA	O2A-CGA-CBA	2.77	120.59	111.91
23	D	405	CLA	C2A-C1A-CHA	-2.77	119.02	123.86
23	d	402	CLA	CHC-C1C-C2C	-2.77	119.06	126.72
23	C	502	CLA	CHD-C4C-NC	2.76	128.56	124.20
23	b	609	CLA	C3B-C4B-NB	2.76	112.78	109.21
25	B	618	BCR	C29-C30-C25	2.76	114.73	110.48
23	B	604	CLA	CHC-C1C-C2C	-2.76	119.09	126.72
23	B	606	CLA	C2A-C1A-CHA	-2.76	119.04	123.86
23	C	503	CLA	CAC-C3C-C4C	2.75	128.38	124.81
29	d	405	PL9	C40-C39-C41	2.75	119.90	115.27
23	b	604	CLA	O2A-CGA-O1A	-2.75	116.64	123.59
23	B	608	CLA	C3B-C4B-NB	2.75	112.77	109.21
23	b	609	CLA	C4C-C3C-C2C	-2.75	102.89	106.90
24	a	407	PHO	CMA-C3A-C4A	-2.75	108.35	114.38
23	A	405	CLA	CAC-C3C-C4C	2.75	128.38	124.81
25	b	619	BCR	C4-C5-C6	-2.75	118.74	122.73
23	B	610	CLA	CMC-C2C-C1C	2.75	129.22	125.04
23	d	403	CLA	C2A-C1A-CHA	-2.75	119.06	123.86
23	C	506	CLA	C4-C3-C5	2.75	119.89	115.27
26	f	101	SQD	C4-C3-C2	-2.74	106.03	110.82
23	B	609	CLA	CHC-C1C-C2C	-2.74	119.13	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	c	514	BCR	C35-C13-C14	-2.74	119.08	122.92
23	B	611	CLA	C3B-C4B-NB	2.74	112.75	109.21
25	A	408	BCR	C37-C22-C21	-2.74	119.08	122.92
23	b	610	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
24	A	406	PHO	C4A-C3A-C2A	-2.74	100.23	102.84
23	b	603	CLA	C4-C3-C5	2.74	119.88	115.27
23	c	511	CLA	CHC-C1C-C2C	-2.74	119.15	126.72
23	d	403	CLA	C3B-C4B-NB	2.74	112.75	109.21
31	A	415	LHG	O8-C23-C24	2.74	120.49	111.91
31	E	101	LHG	O8-C23-C24	2.74	120.49	111.91
23	a	409	CLA	C1-C2-C3	-2.74	121.31	126.04
23	b	603	CLA	CHC-C1C-C2C	-2.73	119.16	126.72
29	d	405	PL9	C7-C8-C9	-2.73	122.24	126.79
23	C	506	CLA	CHD-C4C-NC	2.73	128.51	124.20
29	D	407	PL9	C51-C49-C50	2.73	120.64	114.60
23	c	512	CLA	O2A-CGA-CBA	2.73	120.48	111.91
35	B	633	LMT	O5'-C5'-C4'	2.73	115.51	109.75
25	d	404	BCR	C23-C24-C25	-2.73	119.55	127.20
31	d	408	LHG	O8-C23-C24	2.73	120.46	111.91
25	A	408	BCR	C33-C5-C6	-2.72	121.47	124.53
23	D	401	CLA	CBC-CAC-C3C	-2.72	104.93	112.43
29	d	405	PL9	C37-C38-C39	-2.72	121.11	127.66
23	b	611	CLA	O2A-CGA-O1A	-2.72	116.72	123.59
25	c	514	BCR	C2-C1-C6	2.72	114.67	110.48
23	a	409	CLA	CHC-C1C-C2C	-2.72	119.20	126.72
23	b	611	CLA	CAC-C3C-C4C	2.72	128.34	124.81
29	a	415	PL9	C35-C34-C36	2.72	119.84	115.27
23	C	503	CLA	CHD-C4C-NC	2.72	128.49	124.20
23	C	506	CLA	O2D-CGD-O1D	-2.71	118.53	123.84
23	d	402	CLA	CBC-CAC-C3C	-2.71	104.95	112.43
23	b	602	CLA	C4C-C3C-C2C	-2.71	102.95	106.90
29	A	413	PL9	C35-C34-C36	2.71	119.83	115.27
23	b	607	CLA	O2A-CGA-O1A	-2.71	116.75	123.59
23	B	608	CLA	CBC-CAC-C3C	-2.71	104.96	112.43
23	B	606	CLA	O2A-CGA-O1A	-2.71	116.76	123.59
29	a	415	PL9	C20-C19-C21	2.71	119.83	115.27
23	b	601	CLA	C4C-C3C-C2C	-2.71	102.95	106.90
23	B	612	CLA	OBD-CAD-C3D	-2.71	122.00	128.52
23	D	404	CLA	CHC-C1C-C2C	-2.71	119.23	126.72
23	c	504	CLA	CMC-C2C-C1C	2.71	129.16	125.04
25	a	410	BCR	C38-C26-C25	-2.71	121.49	124.53
37	C	517	DGD	C4E-C3E-C2E	-2.70	106.10	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	604	CLA	CHD-C4C-NC	2.70	128.46	124.20
23	C	506	CLA	CMC-C2C-C1C	2.70	129.16	125.04
25	B	619	BCR	C36-C18-C19	2.70	122.33	118.08
23	c	508	CLA	C2A-C1A-CHA	-2.70	119.14	123.86
23	b	606	CLA	CHC-C1C-C2C	-2.70	119.25	126.72
29	A	413	PL9	C25-C24-C26	2.70	119.81	115.27
23	B	610	CLA	CHD-C4C-NC	2.70	128.46	124.20
23	b	603	CLA	C4C-C3C-C2C	-2.70	102.97	106.90
23	c	502	CLA	O2A-CGA-CBA	2.70	120.37	111.91
26	D	413	SQD	O5-C5-C4	2.70	114.59	109.69
23	A	404	CLA	C4-C3-C5	2.70	119.81	115.27
23	A	405	CLA	CAA-C2A-C3A	-2.70	105.39	112.78
23	C	506	CLA	CHC-C1C-C2C	-2.70	119.27	126.72
23	b	610	CLA	C2A-C1A-CHA	-2.70	119.15	123.86
23	a	404	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
23	a	406	CLA	C4-C3-C5	2.69	119.80	115.27
23	c	506	CLA	CAA-C2A-C3A	-2.69	105.40	112.78
23	B	602	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
23	b	607	CLA	C4-C3-C5	2.69	119.80	115.27
23	B	607	CLA	C2A-C1A-CHA	-2.69	119.15	123.86
29	a	415	PL9	C10-C9-C11	2.69	119.80	115.27
23	B	617	CLA	CBC-CAC-C3C	-2.69	105.01	112.43
23	B	603	CLA	O2A-CGA-CBA	2.69	120.35	111.91
23	b	610	CLA	O2A-CGA-O1A	-2.69	116.81	123.59
23	b	608	CLA	O2A-CGA-CBA	2.69	120.34	111.91
29	D	407	PL9	C15-C14-C16	2.69	119.79	115.27
25	t	101	BCR	C7-C6-C5	-2.69	114.95	121.46
24	A	406	PHO	C1-C2-C3	-2.69	121.40	126.04
23	a	409	CLA	C2A-C1A-CHA	-2.69	119.16	123.86
23	b	610	CLA	C3B-C4B-NB	2.68	112.68	109.21
23	c	513	CLA	O2A-CGA-CBA	2.68	120.33	111.91
23	A	407	CLA	CAA-C2A-C3A	-2.68	105.43	112.78
23	D	405	CLA	CAC-C3C-C4C	2.68	128.29	124.81
31	L	101	LHG	O8-C23-C24	2.68	120.33	111.91
25	H	101	BCR	C29-C30-C25	2.68	114.61	110.48
23	B	604	CLA	C2A-C1A-CHA	-2.68	119.17	123.86
23	C	502	CLA	C4C-C3C-C2C	-2.68	102.99	106.90
23	b	608	CLA	CBC-CAC-C3C	-2.68	105.04	112.43
29	d	405	PL9	C53-C6-C1	2.68	120.47	114.99
23	b	612	CLA	CHD-C4C-NC	2.68	128.42	124.20
25	t	101	BCR	C37-C22-C21	-2.68	119.17	122.92
23	B	613	CLA	CMC-C2C-C1C	2.67	129.11	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	a	404	CLA	C2A-C1A-CHA	-2.67	119.19	123.86
23	C	505	CLA	C1-C2-C3	-2.67	121.42	126.04
23	b	614	CLA	CHC-C1C-C2C	-2.67	119.33	126.72
23	B	610	CLA	CHC-C1C-C2C	-2.67	119.34	126.72
23	B	611	CLA	CAC-C3C-C4C	2.67	128.27	124.81
25	b	618	BCR	C37-C22-C23	2.67	122.28	118.08
23	C	505	CLA	C4C-C3C-C2C	-2.67	103.01	106.90
37	C	519	DGD	O1G-C1A-C2A	2.67	120.28	111.91
37	c	518	DGD	O1G-C1A-C2A	2.67	120.28	111.91
23	b	613	CLA	O2A-CGA-O1A	-2.67	116.86	123.59
25	B	620	BCR	C24-C23-C22	-2.67	122.21	126.23
23	C	513	CLA	C3B-C4B-NB	2.67	112.66	109.21
25	y	101	BCR	C10-C11-C12	-2.66	114.90	123.22
38	E	103	HEM	CHA-C4D-ND	2.66	127.67	124.38
23	D	401	CLA	C2A-C1A-CHA	-2.66	119.20	123.86
23	A	404	CLA	C4C-C3C-C2C	-2.66	103.01	106.90
23	B	608	CLA	CHD-C4C-NC	2.66	128.40	124.20
26	a	411	SQD	C1-O5-C5	-2.66	108.46	113.69
23	c	513	CLA	C4-C3-C5	2.66	119.75	115.27
25	B	620	BCR	C37-C22-C21	-2.66	119.20	122.92
23	B	606	CLA	O2A-CGA-CBA	2.66	120.25	111.91
31	d	407	LHG	O8-C23-C24	2.66	120.25	111.91
23	b	608	CLA	CHC-C1C-C2C	-2.66	119.37	126.72
29	A	413	PL9	C10-C9-C11	2.66	119.74	115.27
23	b	612	CLA	CHC-C1C-C2C	-2.66	119.37	126.72
26	a	411	SQD	C44-O6-C1	-2.66	108.55	113.74
23	b	609	CLA	CHC-C1C-C2C	-2.66	119.38	126.72
29	d	405	PL9	C17-C18-C19	-2.65	121.27	127.66
23	B	617	CLA	CHC-C1C-C2C	-2.65	119.39	126.72
23	C	508	CLA	C3B-C4B-NB	2.65	112.64	109.21
23	B	616	CLA	C1-C2-C3	-2.65	121.46	126.04
23	c	511	CLA	CMB-C2B-C3B	2.65	129.64	124.68
37	h	103	DGD	O2G-C1B-C2B	2.65	117.21	111.50
23	b	610	CLA	CHC-C1C-C2C	-2.65	119.40	126.72
25	b	618	BCR	C28-C27-C26	-2.65	109.35	114.08
23	B	602	CLA	C2A-C1A-CHA	-2.65	119.23	123.86
23	B	606	CLA	CAC-C3C-C4C	2.65	128.24	124.81
23	C	507	CLA	C4C-C3C-C2C	-2.65	103.04	106.90
23	D	401	CLA	O2A-CGA-O1A	-2.65	116.91	123.59
40	v	201	HEC	CBD-CAD-C3D	-2.65	108.10	112.62
23	c	513	CLA	O2D-CGD-O1D	-2.65	118.67	123.84
23	c	513	CLA	C1-C2-C3	-2.64	121.47	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	615	CLA	C4-C3-C5	2.64	119.72	115.27
23	a	406	CLA	O2D-CGD-O1D	-2.64	118.67	123.84
23	C	504	CLA	CHD-C4C-NC	2.64	128.37	124.20
25	C	516	BCR	C15-C14-C13	-2.64	123.54	127.31
23	B	608	CLA	C2A-C1A-CHA	-2.64	119.24	123.86
23	b	602	CLA	O2A-CGA-CBA	2.64	120.19	111.91
23	C	510	CLA	O2D-CGD-O1D	-2.64	118.68	123.84
23	C	510	CLA	C1-O2A-CGA	2.64	123.36	116.44
29	A	413	PL9	C53-C6-C1	2.64	120.38	114.99
29	d	405	PL9	C31-C32-C33	-2.64	103.22	111.88
23	C	505	CLA	CMC-C2C-C1C	2.63	129.05	125.04
23	D	405	CLA	CAA-C2A-C3A	-2.63	105.56	112.78
23	b	602	CLA	CHC-C1C-C2C	-2.63	119.44	126.72
23	C	512	CLA	CHD-C4C-NC	2.63	128.35	124.20
23	D	401	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
23	c	512	CLA	CBC-CAC-C3C	-2.63	105.17	112.43
23	C	503	CLA	CMC-C2C-C1C	2.63	129.05	125.04
23	D	401	CLA	CMA-C3A-C2A	-2.63	103.21	113.83
34	c	520	LMG	C3-C4-C5	2.63	114.93	110.24
23	C	508	CLA	O2A-CGA-CBA	2.63	120.16	111.91
23	b	601	CLA	CMB-C2B-C3B	2.63	129.60	124.68
23	B	617	CLA	C4-C3-C5	2.63	119.69	115.27
23	c	505	CLA	CAC-C3C-C4C	2.63	128.22	124.81
38	E	103	HEM	C4D-ND-C1D	2.63	107.79	105.07
23	b	614	CLA	CHD-C4C-NC	2.63	128.34	124.20
23	b	602	CLA	CMB-C2B-C3B	2.63	129.59	124.68
23	c	507	CLA	C3B-C4B-NB	2.62	112.60	109.21
25	A	408	BCR	C16-C17-C18	-2.62	123.56	127.31
26	L	102	SQD	O48-C23-C24	2.62	120.14	111.91
23	b	604	CLA	CHC-C1C-C2C	-2.62	119.46	126.72
23	b	602	CLA	C2A-C1A-CHA	-2.62	119.27	123.86
23	c	503	CLA	O2A-CGA-CBA	2.62	120.14	111.91
23	C	504	CLA	CAC-C3C-C4C	2.62	128.21	124.81
23	c	508	CLA	CHC-C1C-C2C	-2.62	119.48	126.72
23	a	409	CLA	CMA-C3A-C2A	-2.62	103.26	113.83
23	b	615	CLA	CAC-C3C-C4C	2.62	128.21	124.81
23	B	613	CLA	CHC-C1C-C2C	-2.62	119.48	126.72
36	C	523	HTG	C1-O5-C5	2.62	117.41	112.58
23	c	509	CLA	CHC-C1C-C2C	-2.62	119.48	126.72
23	b	615	CLA	CBC-CAC-C3C	-2.62	105.22	112.43
23	C	511	CLA	CBC-CAC-C3C	-2.62	105.22	112.43
23	C	506	CLA	CAC-C3C-C4C	2.62	128.20	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	D	413	SQD	O48-C23-C24	2.61	120.11	111.91
23	C	514	CLA	O2A-CGA-CBA	2.61	120.11	111.91
23	B	604	CLA	CAC-C3C-C4C	2.61	128.20	124.81
25	d	404	BCR	C28-C27-C26	-2.61	109.41	114.08
37	C	518	DGD	C2G-O2G-C1B	-2.61	111.36	117.79
23	c	505	CLA	CHC-C1C-C2C	-2.61	119.50	126.72
23	c	507	CLA	O1D-CGD-CBD	-2.61	119.15	124.48
29	D	407	PL9	C20-C19-C21	2.61	119.66	115.27
23	B	611	CLA	CMC-C2C-C1C	2.61	129.01	125.04
23	A	407	CLA	CHC-C1C-C2C	-2.61	119.51	126.72
29	A	413	PL9	C40-C39-C41	2.61	119.65	115.27
23	C	509	CLA	O2A-CGA-CBA	2.61	120.08	111.91
26	D	413	SQD	C3-C4-C5	2.60	114.89	110.24
23	c	508	CLA	CHD-C4C-NC	2.60	128.31	124.20
23	B	603	CLA	C2A-C1A-CHA	-2.60	119.31	123.86
23	c	501	CLA	CMB-C2B-C3B	2.60	129.54	124.68
23	C	513	CLA	CBC-CAC-C3C	-2.60	105.26	112.43
23	B	606	CLA	CMC-C2C-C1C	2.60	129.00	125.04
23	C	504	CLA	O2A-CGA-O1A	-2.60	117.03	123.59
34	j	101	LMG	O8-C28-C29	2.60	120.06	111.91
23	C	513	CLA	CHC-C1C-C2C	-2.60	119.54	126.72
25	B	619	BCR	C38-C26-C25	-2.60	121.61	124.53
23	A	405	CLA	C2A-C1A-CHA	-2.60	119.32	123.86
23	a	405	CLA	O2D-CGD-O1D	-2.60	118.76	123.84
23	A	405	CLA	C4C-C3C-C2C	-2.59	103.12	106.90
23	a	409	CLA	CMC-C2C-C1C	2.59	128.99	125.04
26	A	409	SQD	O47-C7-O49	-2.59	117.44	123.70
31	d	408	LHG	O8-C23-O10	-2.59	117.05	123.59
23	c	506	CLA	CHD-C4C-NC	2.59	128.29	124.20
23	C	508	CLA	CHD-C4C-NC	2.59	128.28	124.20
23	c	509	CLA	CHD-C4C-NC	2.59	128.28	124.20
26	a	413	SQD	O5-C5-C4	2.59	114.39	109.69
23	c	510	CLA	O2A-CGA-O1A	-2.58	117.08	123.59
34	Z	101	LMG	O6-C1-C2	2.58	115.81	110.35
23	b	602	CLA	C11-C12-C13	-2.58	107.58	115.92
23	B	608	CLA	C4C-C3C-C2C	-2.58	103.14	106.90
23	b	614	CLA	CMC-C2C-C1C	2.58	128.96	125.04
25	T	101	BCR	C16-C17-C18	-2.58	123.63	127.31
23	c	505	CLA	CHD-C4C-NC	2.58	128.26	124.20
23	c	507	CLA	CHD-C4C-NC	2.58	128.26	124.20
24	a	408	PHO	C1A-C2A-C3A	-2.57	100.39	102.84
23	C	514	CLA	CAA-C2A-C3A	-2.57	105.73	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	A	404	CLA	C2A-C1A-CHA	-2.57	119.36	123.86
29	A	413	PL9	C12-C13-C14	-2.57	121.46	127.66
23	b	605	CLA	CBC-CAC-C3C	-2.57	105.34	112.43
23	B	611	CLA	CHC-C1C-C2C	-2.57	119.60	126.72
23	c	507	CLA	C4-C3-C5	2.57	119.60	115.27
25	D	406	BCR	C3-C4-C5	-2.57	109.48	114.08
23	B	616	CLA	O2A-CGA-CBA	2.57	119.98	111.91
34	J	101	LMG	C8-O7-C10	-2.57	111.46	117.79
23	c	513	CLA	CMB-C2B-C3B	2.57	129.49	124.68
25	c	515	BCR	C33-C5-C6	-2.57	121.64	124.53
23	B	615	CLA	C4C-C3C-C2C	-2.57	103.15	106.90
23	B	612	CLA	C2A-C1A-CHA	-2.57	119.37	123.86
23	c	502	CLA	CMC-C2C-C1C	2.57	128.95	125.04
35	D	403	LMT	O5B-C5B-C4B	2.57	114.36	109.69
23	c	502	CLA	C4C-C3C-C2C	-2.57	103.16	106.90
23	C	505	CLA	C4-C3-C5	2.57	119.59	115.27
23	B	616	CLA	C4C-C3C-C2C	-2.57	103.16	106.90
23	C	504	CLA	C1-C2-C3	-2.56	121.61	126.04
23	C	506	CLA	CMD-C2D-C3D	-2.56	121.72	127.61
23	B	606	CLA	CMB-C2B-C1B	2.56	132.41	128.46
31	d	406	LHG	O8-C23-C24	2.56	119.95	111.91
29	D	407	PL9	C22-C23-C24	-2.56	121.49	127.66
23	B	614	CLA	O2A-CGA-CBA	2.56	119.95	111.91
23	c	513	CLA	CHD-C4C-NC	2.56	128.24	124.20
23	c	513	CLA	CHC-C1C-C2C	-2.56	119.64	126.72
23	c	501	CLA	O2A-CGA-O1A	-2.56	117.13	123.59
24	D	402	PHO	C4-C3-C5	2.56	119.58	115.27
23	b	604	CLA	O1D-CGD-CBD	-2.56	119.25	124.48
23	b	616	CLA	CHD-C4C-NC	2.56	128.24	124.20
23	C	509	CLA	O2A-CGA-O1A	-2.56	117.14	123.59
25	C	527	BCR	C38-C26-C25	-2.56	121.66	124.53
23	c	509	CLA	CAC-C3C-C4C	2.56	128.13	124.81
23	A	407	CLA	C1-C2-C3	-2.56	121.62	126.04
23	C	513	CLA	O1D-CGD-CBD	-2.55	119.26	124.48
23	B	615	CLA	CMC-C2C-C1C	2.55	128.93	125.04
25	C	527	BCR	C10-C11-C12	-2.55	115.25	123.22
23	b	601	CLA	C2A-C1A-CHA	-2.55	119.39	123.86
24	a	408	PHO	CMA-C3A-C4A	-2.55	108.79	114.38
23	C	513	CLA	C4-C3-C5	2.55	119.56	115.27
25	b	618	BCR	C24-C23-C22	-2.55	122.38	126.23
23	B	611	CLA	O2D-CGD-O1D	-2.55	118.85	123.84
23	B	615	CLA	C2A-C1A-CHA	-2.55	119.40	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	602	CLA	C4-C3-C5	2.55	119.56	115.27
23	b	615	CLA	C11-C12-C13	-2.55	107.68	115.92
34	c	520	LMG	C1-O6-C5	2.55	118.69	113.69
23	c	510	CLA	O1D-CGD-CBD	-2.55	119.27	124.48
23	B	605	CLA	CHC-C1C-C2C	-2.55	119.68	126.72
23	c	508	CLA	CMC-C2C-C1C	2.55	128.92	125.04
26	B	621	SQD	C1-C2-C3	-2.55	104.69	110.00
23	B	614	CLA	CHD-C4C-NC	2.54	128.21	124.20
25	B	620	BCR	C21-C20-C19	-2.54	115.28	123.22
23	C	508	CLA	CHC-C1C-C2C	-2.54	119.69	126.72
23	B	614	CLA	C4C-C3C-C2C	-2.54	103.19	106.90
23	C	507	CLA	CAA-C2A-C3A	-2.54	105.82	112.78
23	c	513	CLA	C2A-C1A-CHA	-2.54	119.42	123.86
25	b	618	BCR	C3-C4-C5	-2.54	109.54	114.08
36	b	626	HTG	C1-O5-C5	2.54	117.26	112.58
24	a	407	PHO	O2A-CGA-O1A	-2.54	117.19	123.59
37	c	517	DGD	O1G-C1A-C2A	2.53	119.86	111.91
23	b	611	CLA	CBC-CAC-C3C	-2.53	105.45	112.43
23	B	607	CLA	O2A-CGA-O1A	-2.53	117.20	123.59
25	d	404	BCR	C37-C22-C23	2.53	122.06	118.08
23	B	606	CLA	C1-C2-C3	-2.53	121.67	126.04
24	a	408	PHO	CBA-CAA-C2A	-2.53	106.43	113.81
23	c	501	CLA	O2A-CGA-CBA	2.52	119.83	111.91
29	a	415	PL9	C53-C6-C1	2.52	120.15	114.99
23	c	511	CLA	CMC-C2C-C1C	2.52	128.88	125.04
25	y	101	BCR	C16-C17-C18	-2.52	123.71	127.31
23	c	503	CLA	C4-C3-C5	2.52	119.51	115.27
25	C	516	BCR	C7-C8-C9	-2.52	122.43	126.23
24	a	407	PHO	CMB-C2B-C3B	2.52	129.39	124.68
23	c	502	CLA	C2A-C1A-CHA	-2.52	119.45	123.86
25	B	618	BCR	C15-C14-C13	-2.52	123.72	127.31
29	a	415	PL9	C17-C18-C19	-2.52	121.60	127.66
23	c	507	CLA	C6-C7-C8	-2.52	107.78	115.92
25	k	101	BCR	C10-C11-C12	-2.52	115.36	123.22
23	B	612	CLA	C4C-C3C-C2C	-2.51	103.23	106.90
23	B	616	CLA	CMB-C2B-C1B	2.51	132.33	128.46
23	C	505	CLA	CAC-C3C-C4C	2.51	128.07	124.81
23	b	608	CLA	C2A-C1A-CHA	-2.51	119.46	123.86
23	b	616	CLA	C1-C2-C3	-2.51	121.70	126.04
23	b	603	CLA	C2A-C1A-CHA	-2.51	119.47	123.86
23	d	403	CLA	CBC-CAC-C3C	-2.51	105.51	112.43
23	C	502	CLA	CMC-C2C-C1C	2.51	128.86	125.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	a	409	CLA	O2A-CGA-CBA	2.51	119.78	111.91
29	d	405	PL9	C12-C13-C14	-2.51	121.62	127.66
23	c	507	CLA	CHC-C1C-C2C	-2.51	119.78	126.72
23	b	616	CLA	O2A-CGA-O1A	-2.51	117.26	123.59
29	a	415	PL9	C51-C49-C50	2.51	120.14	114.60
23	d	402	CLA	C4-C3-C5	2.51	119.49	115.27
23	B	602	CLA	CAC-C3C-C4C	2.51	128.06	124.81
23	C	502	CLA	CMB-C2B-C3B	2.51	129.37	124.68
25	C	527	BCR	C15-C14-C13	-2.50	123.73	127.31
23	a	406	CLA	O2A-CGA-CBA	2.50	119.77	111.91
26	f	101	SQD	O5-C5-C4	2.50	114.24	109.69
23	c	509	CLA	CMC-C2C-C1C	2.50	128.85	125.04
23	D	401	CLA	CHC-C1C-C2C	-2.50	119.80	126.72
29	D	407	PL9	C7-C8-C9	-2.50	122.63	126.79
23	c	505	CLA	C4-C3-C5	2.50	119.48	115.27
25	d	404	BCR	C16-C17-C18	-2.50	123.74	127.31
23	B	608	CLA	CHC-C1C-C2C	-2.50	119.81	126.72
23	B	603	CLA	CMB-C2B-C3B	2.50	129.35	124.68
23	b	610	CLA	CAC-C3C-C4C	2.50	128.05	124.81
26	A	409	SQD	O9-S-O7	-2.50	105.30	113.95
23	A	404	CLA	CHC-C1C-C2C	-2.50	119.81	126.72
23	B	602	CLA	C4-C3-C5	2.50	119.47	115.27
26	a	413	SQD	C1-O5-C5	2.50	118.59	113.69
23	D	401	CLA	C3B-C4B-NB	2.50	112.44	109.21
23	C	510	CLA	O2A-CGA-CBA	2.50	119.74	111.91
34	j	101	LMG	C8-O7-C10	-2.50	111.65	117.79
23	D	401	CLA	O2A-CGA-CBA	2.49	119.74	111.91
25	B	618	BCR	C11-C10-C9	-2.49	123.75	127.31
25	C	516	BCR	C34-C9-C10	-2.49	119.43	122.92
26	a	411	SQD	O47-C7-O49	-2.49	117.68	123.70
23	a	409	CLA	CHD-C4C-NC	2.49	128.13	124.20
23	B	612	CLA	CHC-C1C-C2C	-2.49	119.83	126.72
23	b	604	CLA	C4-C3-C5	2.49	119.46	115.27
29	D	407	PL9	C30-C29-C31	2.49	119.46	115.27
23	c	507	CLA	O2A-CGA-CBA	2.48	119.70	111.91
34	J	101	LMG	O7-C10-O9	-2.48	117.70	123.70
25	H	101	BCR	C7-C6-C5	2.48	127.48	121.46
38	E	103	HEM	C4B-C3B-C2B	-2.48	105.15	107.11
23	B	613	CLA	O2A-CGA-O1A	-2.48	117.33	123.59
23	B	607	CLA	C4-C3-C5	2.48	119.44	115.27
23	b	610	CLA	CMC-C2C-C1C	2.48	128.81	125.04
23	D	405	CLA	C4-C3-C5	2.48	119.44	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	c	515	BCR	C36-C18-C19	2.47	121.97	118.08
23	d	402	CLA	C4C-C3C-C2C	-2.47	103.29	106.90
23	C	506	CLA	O2A-CGA-CBA	2.47	119.67	111.91
25	a	410	BCR	C33-C5-C6	-2.47	121.75	124.53
23	B	607	CLA	CBC-CAC-C3C	-2.47	105.62	112.43
23	c	504	CLA	CBC-CAC-C3C	-2.47	105.62	112.43
25	c	514	BCR	C34-C9-C10	-2.47	119.46	122.92
23	a	404	CLA	C1-C2-C3	-2.47	121.77	126.04
31	e	101	LHG	O8-C23-C24	2.47	119.66	111.91
25	C	515	BCR	C38-C26-C25	-2.47	121.76	124.53
23	c	504	CLA	C1-O2A-CGA	2.47	122.92	116.44
29	d	405	PL9	C51-C49-C50	2.47	120.05	114.60
37	C	519	DGD	C3G-C2G-C1G	-2.47	105.96	111.79
29	D	407	PL9	C7-C3-C2	-2.46	120.06	123.30
23	B	607	CLA	CMC-C2C-C1C	2.46	128.79	125.04
23	B	606	CLA	CHC-C1C-C2C	-2.46	119.91	126.72
23	C	511	CLA	C4-C3-C2	-2.46	117.36	123.68
37	C	518	DGD	O1G-C1A-C2A	2.46	119.63	111.91
26	f	101	SQD	O48-C23-C24	2.46	119.63	111.91
23	b	606	CLA	C2A-C1A-CHA	-2.46	119.56	123.86
25	c	515	BCR	C15-C14-C13	-2.46	123.80	127.31
31	d	406	LHG	C5-O7-C7	-2.46	111.74	117.79
23	a	404	CLA	CHB-C4A-NA	2.46	127.91	124.51
25	b	618	BCR	C15-C14-C13	-2.46	123.80	127.31
26	D	413	SQD	O7-S-C6	2.46	109.86	106.94
23	C	505	CLA	C1-O2A-CGA	2.46	122.89	116.44
29	a	415	PL9	C40-C39-C41	2.46	119.40	115.27
35	B	623	LMT	C1'-O5'-C5'	2.46	118.51	113.69
34	B	622	LMG	O1-C1-C2	-2.45	104.47	108.30
23	A	405	CLA	CHD-C4C-NC	2.45	128.07	124.20
25	y	101	BCR	C21-C20-C19	-2.45	115.56	123.22
26	f	101	SQD	O47-C7-O49	-2.45	117.78	123.70
26	L	102	SQD	O8-S-C6	2.45	109.64	105.74
23	C	513	CLA	O2A-CGA-O1A	-2.45	117.41	123.59
23	c	505	CLA	O2A-CGA-CBA	2.45	119.59	111.91
37	c	517	DGD	O5D-C1E-C2E	2.45	112.12	108.30
23	b	601	CLA	O2A-CGA-CBA	2.45	119.59	111.91
23	a	406	CLA	O2A-CGA-O1A	-2.45	117.42	123.59
37	C	517	DGD	C3G-C2G-C1G	-2.45	106.00	111.79
36	B	624	HTG	C1-O5-C5	2.44	117.09	112.58
23	a	405	CLA	CAA-CBA-CGA	2.44	120.40	113.25
23	C	513	CLA	CBA-CAA-C2A	-2.44	106.65	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	a	404	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
23	c	511	CLA	CAC-C3C-C4C	2.44	127.98	124.81
26	D	413	SQD	C44-O6-C1	-2.44	108.97	113.74
25	a	410	BCR	C2-C1-C6	2.44	114.23	110.48
23	d	403	CLA	CHC-C1C-C2C	-2.44	119.98	126.72
25	Y	101	BCR	C29-C28-C27	-2.44	105.93	111.38
24	A	406	PHO	CMA-C3A-C4A	-2.44	109.04	114.38
23	B	616	CLA	O2D-CGD-O1D	-2.43	119.08	123.84
23	c	506	CLA	O2A-CGA-O1A	-2.43	117.45	123.59
25	h	102	BCR	C16-C15-C14	-2.43	118.49	123.47
23	C	513	CLA	CMA-C3A-C4A	-2.43	105.24	111.77
23	B	617	CLA	O1D-CGD-CBD	-2.43	119.51	124.48
23	C	507	CLA	CMB-C2B-C3B	2.43	129.22	124.68
23	b	613	CLA	CHC-C1C-C2C	-2.43	120.01	126.72
29	D	407	PL9	C25-C24-C26	2.42	119.35	115.27
25	A	408	BCR	C3-C4-C5	-2.42	109.75	114.08
23	b	603	CLA	CAC-C3C-C4C	2.42	127.95	124.81
23	C	507	CLA	O2A-CGA-O1A	-2.42	117.48	123.59
23	a	405	CLA	CMB-C2B-C3B	2.42	129.21	124.68
23	b	602	CLA	O2D-CGD-O1D	-2.42	119.11	123.84
23	B	613	CLA	C2A-C1A-CHA	-2.42	119.63	123.86
25	Y	101	BCR	C36-C18-C19	2.42	121.89	118.08
25	H	101	BCR	C15-C14-C13	-2.42	123.86	127.31
23	B	607	CLA	C11-C10-C8	-2.42	108.10	115.92
23	b	607	CLA	CMC-C2C-C1C	2.42	128.72	125.04
23	B	603	CLA	CHD-C4C-NC	2.42	128.01	124.20
34	m	101	LMG	C8-O7-C10	-2.42	111.84	117.79
26	L	102	SQD	C44-O6-C1	-2.42	109.02	113.74
25	C	516	BCR	C21-C20-C19	-2.41	115.69	123.22
23	d	402	CLA	CMC-C2C-C1C	2.41	128.71	125.04
23	c	509	CLA	O2D-CGD-O1D	-2.41	119.12	123.84
23	c	504	CLA	CHD-C4C-NC	2.41	128.00	124.20
23	b	613	CLA	CED-O2D-CGD	2.41	121.39	115.94
36	b	623	HTG	C1-O5-C5	2.41	117.02	112.58
25	b	617	BCR	C3-C4-C5	-2.41	109.78	114.08
23	d	402	CLA	C2A-C1A-CHA	-2.41	119.65	123.86
36	C	523	HTG	O5-C1-C2	2.41	113.34	110.31
25	a	410	BCR	C11-C10-C9	-2.41	123.88	127.31
23	C	513	CLA	CMB-C2B-C3B	2.41	129.18	124.68
24	a	408	PHO	O2D-CGD-O1D	-2.41	119.14	123.84
23	c	509	CLA	CED-O2D-CGD	2.40	121.38	115.94
29	D	407	PL9	C40-C39-C41	2.40	119.31	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	D	413	SQD	C1-C2-C3	-2.40	104.99	110.00
23	A	405	CLA	C4-C3-C5	2.40	119.31	115.27
23	B	608	CLA	C1-O2A-CGA	2.40	122.75	116.44
23	c	509	CLA	C2A-C1A-CHA	-2.40	119.66	123.86
23	b	603	CLA	CBC-CAC-C3C	-2.40	105.81	112.43
23	B	604	CLA	CMC-C2C-C1C	2.40	128.70	125.04
23	a	405	CLA	O2A-CGA-CBA	2.40	119.44	111.91
26	a	411	SQD	O48-C23-C24	2.40	119.44	111.91
23	b	611	CLA	CHD-C4C-NC	2.40	127.98	124.20
23	C	512	CLA	O2A-CGA-CBA	2.40	119.44	111.91
23	b	614	CLA	CMB-C2B-C3B	2.40	129.16	124.68
23	c	508	CLA	CAA-C2A-C3A	-2.40	106.21	112.78
23	b	606	CLA	CBC-CAC-C3C	-2.40	105.82	112.43
23	C	514	CLA	C4-C3-C5	2.40	119.30	115.27
23	c	509	CLA	C4-C3-C5	2.40	119.30	115.27
23	c	501	CLA	CHD-C4C-NC	2.40	127.98	124.20
23	d	402	CLA	O2A-CGA-O1A	-2.39	117.56	123.59
23	B	608	CLA	O2A-CGA-CBA	2.39	119.40	111.91
23	D	404	CLA	CHD-C4C-NC	2.39	127.96	124.20
23	b	615	CLA	CHD-C4C-NC	2.38	127.96	124.20
23	c	506	CLA	C2A-C1A-CHA	-2.38	119.69	123.86
34	a	417	LMG	O8-C28-C29	2.38	119.38	111.91
25	h	102	BCR	C29-C30-C25	2.38	114.14	110.48
23	a	404	CLA	CAA-C2A-C1A	-2.38	104.18	111.97
25	B	619	BCR	C2-C1-C6	2.38	114.14	110.48
31	D	408	LHG	O8-C23-C24	2.38	119.37	111.91
23	b	614	CLA	C2A-C1A-CHA	-2.38	119.70	123.86
23	C	510	CLA	CHC-C1C-C2C	-2.38	120.14	126.72
25	d	404	BCR	C23-C22-C21	-2.38	115.29	118.94
25	C	515	BCR	C23-C24-C25	-2.38	120.53	127.20
29	D	407	PL9	C36-C37-C38	-2.38	104.07	111.88
23	b	614	CLA	CAA-C2A-C3A	-2.38	106.27	112.78
29	A	413	PL9	C45-C44-C46	2.37	119.27	115.27
23	B	611	CLA	O1D-CGD-CBD	-2.37	119.63	124.48
29	d	405	PL9	C27-C28-C29	-2.37	121.94	127.66
34	J	101	LMG	O8-C28-O10	-2.37	117.60	123.59
25	B	620	BCR	C10-C11-C12	-2.37	115.82	123.22
23	B	612	CLA	O2D-CGD-O1D	-2.37	119.20	123.84
23	a	405	CLA	O2A-CGA-O1A	-2.37	117.61	123.59
25	h	102	BCR	C37-C22-C21	-2.37	119.61	122.92
26	a	411	SQD	O9-S-C6	2.37	109.75	106.94
34	C	521	LMG	O8-C28-C29	2.37	119.33	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	618	BCR	C36-C18-C17	-2.37	119.61	122.92
35	B	634	LMT	O1'-C1'-C2'	2.36	112.00	108.30
34	m	101	LMG	O8-C28-O10	-2.36	117.63	123.59
35	B	623	LMT	C3'-C4'-C5'	2.36	116.34	110.93
23	b	612	CLA	CMC-C2C-C1C	2.36	128.64	125.04
23	b	602	CLA	CAC-C3C-C4C	2.36	127.87	124.81
23	A	407	CLA	CMA-C3A-C2A	-2.36	104.30	113.83
25	k	101	BCR	C34-C9-C8	2.36	121.80	118.08
23	a	406	CLA	CBC-CAC-C3C	-2.36	105.92	112.43
25	Y	101	BCR	C37-C22-C21	-2.36	119.62	122.92
25	b	619	BCR	C21-C20-C19	-2.36	115.86	123.22
36	B	629	HTG	O5-C5-C4	2.36	113.98	109.69
29	a	415	PL9	C45-C44-C46	2.36	119.24	115.27
36	c	522	HTG	O5-C5-C4	2.36	113.97	109.69
34	z	101	LMG	C8-O7-C10	-2.36	111.99	117.79
23	b	613	CLA	C4-C3-C5	2.36	119.23	115.27
25	A	408	BCR	C31-C1-C6	-2.36	106.48	110.30
23	b	616	CLA	OBD-CAD-C3D	-2.35	122.86	128.52
23	B	605	CLA	CHD-C4C-NC	2.35	127.91	124.20
24	a	408	PHO	O1D-CGD-CBD	-2.35	120.82	124.74
23	B	612	CLA	CMA-C3A-C4A	-2.35	105.45	111.77
35	b	628	LMT	C1'-C2'-C3'	2.35	114.89	110.00
37	c	516	DGD	O2G-C1B-O1B	-2.35	118.02	123.70
25	D	406	BCR	C21-C20-C19	-2.35	115.88	123.22
25	C	527	BCR	C2-C1-C6	2.35	114.10	110.48
23	d	403	CLA	C4-C3-C5	2.35	119.22	115.27
23	C	503	CLA	C4-C3-C5	2.35	119.22	115.27
23	A	404	CLA	C16-C15-C13	-2.35	108.33	115.92
23	C	505	CLA	CHD-C4C-NC	2.35	127.90	124.20
23	D	404	CLA	CAC-C3C-C4C	2.35	127.85	124.81
23	B	602	CLA	CHB-C4A-NA	2.35	127.75	124.51
23	C	512	CLA	C11-C10-C8	-2.34	108.34	115.92
37	c	518	DGD	C3G-C2G-C1G	-2.34	106.25	111.79
23	B	613	CLA	CHD-C4C-NC	2.34	127.89	124.20
25	Y	101	BCR	C34-C9-C8	2.34	121.76	118.08
23	d	403	CLA	CAA-C2A-C3A	-2.34	106.38	112.78
23	C	508	CLA	C11-C10-C8	-2.34	108.36	115.92
25	h	102	BCR	C10-C11-C12	-2.33	115.94	123.22
23	d	402	CLA	CAA-C2A-C3A	-2.33	106.39	112.78
23	C	505	CLA	CHB-C4A-NA	2.33	127.74	124.51
25	D	406	BCR	C16-C17-C18	-2.33	123.98	127.31
37	C	519	DGD	O2G-C1B-C2B	2.33	116.52	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	510	CLA	CMB-C2B-C3B	2.33	129.04	124.68
37	C	517	DGD	C2G-O2G-C1B	-2.33	112.05	117.79
23	D	405	CLA	CHC-C1C-C2C	-2.33	120.28	126.72
23	C	514	CLA	CHC-C1C-C2C	-2.33	120.28	126.72
23	b	606	CLA	O2A-CGA-CBA	2.33	119.21	111.91
37	c	516	DGD	C3G-C2G-C1G	-2.33	106.29	111.79
23	c	504	CLA	C2A-C1A-CHA	-2.33	119.79	123.86
26	f	101	SQD	O5-C1-C2	2.32	115.27	110.35
31	A	415	LHG	O7-C7-O9	-2.32	118.09	123.70
31	d	406	LHG	O7-C7-O9	-2.32	118.09	123.70
23	C	511	CLA	O2A-CGA-O1A	-2.32	117.73	123.59
24	a	408	PHO	C4-C3-C2	-2.32	117.72	123.68
34	j	101	LMG	O8-C28-O10	-2.32	117.73	123.59
34	Z	101	LMG	C9-C8-C7	-2.32	106.30	111.79
23	b	601	CLA	CBC-CAC-C3C	-2.32	106.04	112.43
26	L	102	SQD	C1-C2-C3	-2.32	105.17	110.00
25	a	410	BCR	C32-C1-C6	-2.32	106.54	110.30
23	b	615	CLA	O2D-CGD-O1D	-2.31	119.31	123.84
25	Y	101	BCR	C21-C20-C19	-2.31	116.00	123.22
23	c	506	CLA	CBC-CAC-C3C	-2.31	106.05	112.43
23	b	607	CLA	O2A-CGA-CBA	2.31	119.17	111.91
23	B	610	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
23	b	601	CLA	CMC-C2C-C1C	2.31	128.56	125.04
23	C	505	CLA	CMB-C2B-C3B	2.31	129.00	124.68
23	C	508	CLA	CAC-C3C-C4C	2.31	127.81	124.81
25	k	101	BCR	C2-C1-C6	2.31	114.04	110.48
23	B	612	CLA	CMB-C2B-C3B	2.31	129.00	124.68
23	C	503	CLA	C2A-C1A-CHA	-2.31	119.82	123.86
34	C	501	LMG	O1-C1-C2	2.31	111.90	108.30
25	h	102	BCR	C36-C18-C17	-2.31	119.69	122.92
23	c	510	CLA	C4-C3-C2	-2.31	117.76	123.68
26	a	411	SQD	O5-C1-C2	-2.30	105.47	110.35
23	B	616	CLA	C6-C7-C8	-2.30	108.47	115.92
23	C	511	CLA	C2A-C1A-CHA	-2.30	119.83	123.86
23	c	508	CLA	O2A-CGA-O1A	-2.30	117.78	123.59
34	C	520	LMG	O8-C28-O10	-2.30	117.78	123.59
23	a	409	CLA	O2A-CGA-O1A	-2.30	117.79	123.59
23	B	611	CLA	C6-C7-C8	-2.30	108.49	115.92
23	c	506	CLA	CMC-C2C-C1C	2.30	128.54	125.04
23	C	514	CLA	CBC-CAC-C3C	-2.30	106.10	112.43
26	B	621	SQD	C3-C4-C5	2.30	114.33	110.24
23	c	507	CLA	C2A-C1A-CHA	-2.30	119.84	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	620	BCR	C3-C4-C5	-2.29	109.98	114.08
23	b	612	CLA	CAC-C3C-C4C	2.29	127.79	124.81
23	C	509	CLA	CHB-C4A-NA	2.29	127.68	124.51
25	b	619	BCR	C33-C5-C4	2.29	118.02	113.62
35	m	103	LMT	O5B-C5B-C4B	2.29	113.85	109.69
25	b	618	BCR	C21-C20-C19	-2.29	116.07	123.22
23	a	404	CLA	CMC-C2C-C1C	2.29	128.53	125.04
23	C	510	CLA	CBC-CAC-C3C	-2.29	106.13	112.43
23	c	507	CLA	CMD-C2D-C3D	-2.28	122.36	127.61
25	c	514	BCR	C3-C4-C5	-2.28	110.00	114.08
31	A	415	LHG	O8-C6-C5	-2.28	101.79	108.43
23	C	506	CLA	O2A-CGA-O1A	-2.28	117.83	123.59
25	Y	101	BCR	C28-C27-C26	-2.28	110.00	114.08
23	b	606	CLA	CAC-C3C-C4C	2.28	127.77	124.81
26	A	409	SQD	O48-C23-O10	-2.28	117.84	123.59
23	B	608	CLA	CAC-C3C-C4C	2.28	127.77	124.81
23	c	510	CLA	C4C-C3C-C2C	-2.28	103.58	106.90
23	C	511	CLA	CHD-C4C-NC	2.28	127.79	124.20
23	B	607	CLA	CAA-C2A-C3A	-2.28	106.54	112.78
23	b	616	CLA	CMB-C2B-C3B	2.28	128.94	124.68
23	B	609	CLA	C4-C3-C5	2.28	119.10	115.27
23	a	404	CLA	C4-C3-C5	2.28	119.10	115.27
25	B	620	BCR	C2-C3-C4	-2.28	106.29	111.38
23	B	609	CLA	CMC-C2C-C1C	2.28	128.51	125.04
25	Y	101	BCR	C10-C11-C12	-2.28	116.11	123.22
23	c	504	CLA	CHB-C4A-NA	2.28	127.66	124.51
23	C	506	CLA	CBC-CAC-C3C	-2.28	106.16	112.43
23	B	602	CLA	CBC-CAC-C3C	-2.28	106.16	112.43
40	V	202	HEC	CMB-C2B-C3B	2.27	128.50	125.82
25	b	619	BCR	C16-C17-C18	-2.27	124.06	127.31
29	A	413	PL9	C51-C49-C50	2.27	119.63	114.60
23	A	405	CLA	CMA-C3A-C4A	-2.27	105.66	111.77
25	A	408	BCR	C35-C13-C12	2.27	121.66	118.08
37	H	102	DGD	O1G-C1A-C2A	2.27	119.04	111.91
23	b	613	CLA	O2D-CGD-O1D	-2.27	119.40	123.84
23	b	609	CLA	C2A-C1A-CHA	-2.27	119.89	123.86
23	B	617	CLA	C2A-C1A-CHA	-2.27	119.89	123.86
23	C	510	CLA	C2A-C1A-CHA	-2.27	119.89	123.86
36	B	624	HTG	O5-C1-C2	2.27	113.17	110.31
23	B	608	CLA	O2D-CGD-O1D	-2.27	119.41	123.84
23	c	505	CLA	CMC-C2C-C1C	2.27	128.49	125.04
25	y	101	BCR	C37-C22-C23	2.27	121.65	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	Z	101	LMG	C1-O6-C5	2.27	118.13	113.69
29	d	405	PL9	C16-C17-C18	-2.26	104.44	111.88
23	C	502	CLA	O2A-CGA-CBA	2.26	119.01	111.91
35	C	522	LMT	O1'-C1'-C2'	2.26	111.83	108.30
25	c	514	BCR	C7-C8-C9	-2.26	122.82	126.23
40	v	201	HEC	O2D-CGD-CBD	2.26	121.30	114.03
23	c	510	CLA	CMD-C2D-C3D	-2.26	122.42	127.61
23	b	607	CLA	C1-O2A-CGA	2.26	122.37	116.44
23	C	508	CLA	C4-C3-C5	2.26	119.07	115.27
26	L	102	SQD	C1-O5-C5	-2.26	109.26	113.69
23	c	503	CLA	CMC-C2C-C1C	2.26	128.48	125.04
36	b	621	HTG	O5-C5-C4	2.26	113.79	109.69
23	b	611	CLA	CMB-C2B-C3B	2.25	128.90	124.68
34	Z	101	LMG	O6-C5-C4	2.25	113.78	109.69
25	k	101	BCR	C20-C21-C22	-2.25	124.10	127.31
25	C	516	BCR	C2-C1-C6	2.25	113.95	110.48
40	V	202	HEC	CBD-CAD-C3D	-2.25	108.78	112.62
23	D	405	CLA	CBC-CAC-C3C	-2.25	106.23	112.43
25	c	515	BCR	C37-C22-C21	-2.25	119.77	122.92
24	a	407	PHO	CBA-CAA-C2A	-2.25	107.24	113.81
26	D	413	SQD	O9-S-C6	2.25	109.61	106.94
23	b	602	CLA	CBC-CAC-C3C	-2.25	106.23	112.43
23	c	504	CLA	O2A-CGA-CBA	2.25	118.96	111.91
37	c	517	DGD	O1G-C1A-O1A	-2.25	117.92	123.59
36	B	624	HTG	O2-C2-C3	-2.25	105.16	110.35
23	B	609	CLA	CHB-C4A-NA	2.25	127.62	124.51
23	B	609	CLA	CBC-CAC-C3C	-2.24	106.24	112.43
25	B	620	BCR	C37-C22-C23	2.24	121.61	118.08
24	A	406	PHO	O2D-CGD-O1D	-2.24	119.45	123.84
25	B	619	BCR	C33-C5-C6	-2.24	122.01	124.53
23	a	405	CLA	CHB-C4A-NA	2.24	127.61	124.51
23	B	605	CLA	O1D-CGD-CBD	-2.24	119.90	124.48
23	c	510	CLA	CMB-C2B-C3B	2.24	128.87	124.68
23	C	503	CLA	O2A-CGA-CBA	2.24	118.93	111.91
23	A	407	CLA	CMA-C3A-C4A	-2.24	105.76	111.77
25	B	619	BCR	C16-C17-C18	-2.24	124.12	127.31
23	C	509	CLA	CHD-C4C-NC	2.24	127.73	124.20
23	c	504	CLA	O1D-CGD-CBD	-2.23	119.91	124.48
25	b	619	BCR	C37-C22-C23	2.23	121.59	118.08
24	D	402	PHO	CMC-C2C-C3C	2.23	129.15	124.94
23	D	401	CLA	C4C-C3C-C2C	-2.23	103.64	106.90
25	t	101	BCR	C16-C17-C18	-2.23	124.13	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	y	101	BCR	C1-C6-C7	2.23	122.09	115.78
37	c	516	DGD	C6D-O5D-C1E	-2.23	109.38	113.74
23	c	511	CLA	CAA-CBA-CGA	-2.23	106.74	113.25
34	C	501	LMG	O7-C10-O9	-2.23	118.32	123.70
29	d	405	PL9	C25-C24-C23	-2.23	117.97	123.68
29	d	405	PL9	C45-C44-C43	-2.22	117.97	123.68
23	C	509	CLA	C2A-C1A-CHA	-2.22	119.97	123.86
23	B	602	CLA	CMA-C3A-C4A	-2.22	105.80	111.77
24	a	407	PHO	C4A-C3A-C2A	-2.22	100.72	102.84
23	C	505	CLA	CBC-CAC-C3C	-2.22	106.31	112.43
23	c	503	CLA	CBC-CAC-C3C	-2.22	106.31	112.43
23	A	407	CLA	O2A-CGA-CBA	2.22	118.87	111.91
26	D	413	SQD	O48-C23-O10	-2.22	117.99	123.59
23	B	607	CLA	CAC-C3C-C4C	2.22	127.69	124.81
23	b	605	CLA	C1-O2A-CGA	2.22	122.26	116.44
29	A	413	PL9	C47-C48-C49	-2.22	120.17	127.75
23	b	613	CLA	CHB-C4A-NA	2.22	127.58	124.51
25	d	404	BCR	C11-C10-C9	-2.22	124.15	127.31
23	c	503	CLA	CHD-C4C-NC	2.22	127.70	124.20
25	Y	101	BCR	C40-C30-C25	-2.22	106.70	110.30
25	H	101	BCR	C2-C1-C6	2.22	113.89	110.48
23	A	407	CLA	CBC-CAC-C3C	-2.22	106.32	112.43
23	C	508	CLA	O2A-CGA-O1A	-2.22	118.00	123.59
38	e	103	HEM	CBD-CAD-C3D	-2.22	106.47	112.63
31	L	101	LHG	O4-P-O5	2.22	123.19	112.24
23	a	406	CLA	CHB-C4A-NA	2.21	127.57	124.51
23	c	505	CLA	C2A-C1A-CHA	-2.21	119.99	123.86
25	k	101	BCR	C28-C27-C26	-2.21	110.13	114.08
23	a	409	CLA	CMB-C2B-C3B	2.21	128.81	124.68
26	A	409	SQD	O8-S-C6	2.21	109.26	105.74
29	d	405	PL9	C36-C34-C33	-2.20	116.66	121.12
23	b	610	CLA	CMA-C3A-C2A	-2.20	104.95	113.83
23	C	513	CLA	CHB-C4A-NA	2.20	127.55	124.51
25	c	515	BCR	C37-C22-C23	2.20	121.54	118.08
23	B	606	CLA	CHB-C4A-NA	2.20	127.55	124.51
31	D	409	LHG	O8-C23-O10	-2.20	118.05	123.59
23	b	604	CLA	CHA-C1A-NA	-2.20	121.37	126.40
23	C	513	CLA	C1-C2-C3	-2.20	122.24	126.04
23	b	607	CLA	CHD-C4C-NC	2.20	127.66	124.20
34	j	101	LMG	O7-C10-O9	-2.20	118.40	123.70
25	D	406	BCR	C29-C30-C25	2.19	113.86	110.48
29	a	415	PL9	C47-C48-C49	-2.19	120.25	127.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	612	CLA	O2A-CGA-CBA	2.19	118.79	111.91
25	B	618	BCR	C31-C1-C6	-2.19	106.75	110.30
23	c	501	CLA	CBC-CAC-C3C	-2.19	106.39	112.43
23	b	609	CLA	O2A-CGA-O1A	-2.19	118.06	123.59
23	B	617	CLA	C1-C2-C3	-2.19	122.25	126.04
23	c	512	CLA	O1D-CGD-CBD	-2.19	120.01	124.48
23	B	613	CLA	C11-C12-C13	-2.18	108.86	115.92
29	A	413	PL9	C37-C36-C34	-2.18	105.80	112.98
23	D	405	CLA	C1-C2-C3	-2.18	122.27	126.04
25	c	515	BCR	C15-C16-C17	-2.18	119.01	123.47
34	z	101	LMG	C7-O1-C1	-2.18	109.48	113.74
23	C	504	CLA	CMB-C2B-C3B	2.18	128.75	124.68
23	a	405	CLA	C4-C3-C5	2.18	118.93	115.27
23	C	509	CLA	CAC-C3C-C4C	2.17	127.63	124.81
38	E	103	HEM	O2D-CGD-CBD	2.17	121.02	114.03
23	C	513	CLA	CAC-C3C-C4C	2.17	127.63	124.81
23	a	404	CLA	CED-O2D-CGD	2.17	120.85	115.94
23	c	501	CLA	CMC-C2C-C1C	2.17	128.34	125.04
25	C	527	BCR	C37-C22-C21	-2.17	119.88	122.92
26	L	102	SQD	O47-C7-O49	-2.17	118.46	123.70
25	B	620	BCR	C29-C30-C25	2.17	113.82	110.48
23	b	603	CLA	CHB-C4A-NA	2.17	127.51	124.51
23	c	511	CLA	CBC-CAC-C3C	-2.17	106.45	112.43
25	c	515	BCR	C21-C20-C19	-2.17	116.45	123.22
25	C	516	BCR	C24-C23-C22	-2.17	122.96	126.23
23	B	602	CLA	O1D-CGD-CBD	-2.16	120.06	124.48
25	k	101	BCR	C7-C8-C9	-2.16	122.97	126.23
23	b	613	CLA	C2A-C1A-CHA	-2.16	120.08	123.86
25	C	527	BCR	C36-C18-C19	2.16	121.48	118.08
23	C	508	CLA	C6-C7-C8	-2.16	108.93	115.92
25	d	404	BCR	C21-C20-C19	-2.16	116.47	123.22
25	a	410	BCR	C36-C18-C19	2.16	121.48	118.08
23	D	404	CLA	CMB-C2B-C3B	2.16	128.72	124.68
24	a	407	PHO	C4-C3-C5	2.16	118.91	115.27
24	a	407	PHO	C1A-C2A-C3A	-2.16	100.78	102.84
40	V	202	HEC	C3B-C4B-NB	-2.16	106.86	110.94
23	C	502	CLA	C2A-C1A-CHA	-2.16	120.08	123.86
23	a	404	CLA	CBC-CAC-C3C	-2.16	106.48	112.43
23	c	513	CLA	CBC-CAC-C3C	-2.16	106.48	112.43
25	h	102	BCR	C35-C13-C12	2.16	121.48	118.08
23	c	504	CLA	CED-O2D-CGD	2.16	120.82	115.94
37	C	518	DGD	O1G-C1A-O1A	-2.16	118.14	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	D	402	PHO	O2A-CGA-CBA	2.16	118.68	111.91
23	B	605	CLA	CHB-C4A-NA	2.16	127.50	124.51
23	b	615	CLA	O2A-CGA-CBA	2.16	118.68	111.91
23	b	616	CLA	C2A-C1A-CHA	-2.16	120.09	123.86
23	B	614	CLA	O2D-CGD-O1D	-2.16	119.62	123.84
25	d	404	BCR	C40-C30-C25	-2.16	106.80	110.30
23	B	609	CLA	C2A-C1A-CHA	-2.16	120.09	123.86
23	B	611	CLA	CAA-CBA-CGA	-2.16	106.95	113.25
23	b	607	CLA	CBC-CAC-C3C	-2.15	106.49	112.43
23	B	617	CLA	CMB-C2B-C3B	2.15	128.71	124.68
38	e	103	HEM	C3C-C4C-NC	-2.15	106.88	110.94
40	v	201	HEC	C3B-C4B-NB	-2.15	106.88	110.94
23	B	611	CLA	CMB-C2B-C3B	2.15	128.70	124.68
23	c	513	CLA	O2A-CGA-O1A	-2.15	118.17	123.59
23	d	403	CLA	C1-C2-C3	-2.15	122.33	126.04
25	k	101	BCR	C34-C9-C10	-2.15	119.92	122.92
23	B	608	CLA	C4-C3-C5	2.15	118.88	115.27
31	L	101	LHG	C5-O7-C7	-2.15	112.51	117.79
23	c	509	CLA	CMB-C2B-C3B	2.15	128.69	124.68
23	b	601	CLA	CAA-C2A-C3A	-2.15	106.90	112.78
23	a	409	CLA	CBC-CAC-C3C	-2.15	106.52	112.43
23	B	605	CLA	CMB-C2B-C3B	2.14	128.69	124.68
25	H	101	BCR	C31-C1-C6	-2.14	106.82	110.30
23	D	405	CLA	CHB-C4A-NA	2.14	127.48	124.51
25	A	408	BCR	C36-C18-C19	2.14	121.45	118.08
23	C	504	CLA	CBC-CAC-C3C	-2.14	106.53	112.43
23	C	509	CLA	CAC-C3C-C2C	2.14	131.19	127.53
23	C	505	CLA	C2A-C1A-CHA	-2.14	120.12	123.86
34	m	101	LMG	C1-C2-C3	-2.14	105.54	110.00
29	d	405	PL9	C42-C41-C39	-2.14	105.94	112.98
23	B	614	CLA	CBC-CAC-C3C	-2.14	106.54	112.43
23	b	608	CLA	C11-C10-C8	-2.14	109.01	115.92
25	b	617	BCR	C16-C17-C18	-2.14	124.26	127.31
23	b	611	CLA	C2A-C1A-CHA	-2.14	120.12	123.86
23	B	609	CLA	O2D-CGD-O1D	-2.14	119.66	123.84
23	b	614	CLA	CBC-CAC-C3C	-2.13	106.55	112.43
23	B	614	CLA	C7-C6-C5	-2.13	107.56	113.36
25	B	619	BCR	C37-C22-C23	2.13	121.44	118.08
23	B	609	CLA	CAC-C3C-C2C	2.13	131.18	127.53
23	a	405	CLA	C4C-C3C-C2C	-2.13	103.79	106.90
31	E	101	LHG	O8-C23-O10	-2.13	118.22	123.59
23	B	611	CLA	C2A-C1A-CHA	-2.13	120.14	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	606	CLA	OBD-CAD-C3D	-2.13	123.40	128.52
23	B	607	CLA	CMB-C2B-C3B	2.13	128.66	124.68
24	a	408	PHO	C4A-C3A-C2A	-2.12	100.82	102.84
23	D	401	CLA	CAA-CBA-CGA	2.12	119.46	113.25
23	c	502	CLA	O2A-CGA-O1A	-2.12	118.23	123.59
23	B	603	CLA	CBC-CAC-C3C	-2.12	106.59	112.43
23	A	404	CLA	CMD-C2D-C3D	-2.12	122.74	127.61
23	a	404	CLA	C4C-C3C-C2C	-2.12	103.81	106.90
23	B	603	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
26	a	413	SQD	O7-S-C6	2.12	109.46	106.94
34	c	519	LMG	O7-C10-O9	-2.12	118.58	123.70
23	c	501	CLA	C2A-C1A-CHA	-2.12	120.16	123.86
23	C	502	CLA	CAA-C2A-C3A	-2.12	106.98	112.78
23	b	615	CLA	C6-C7-C8	-2.12	109.08	115.92
23	a	406	CLA	CMB-C2B-C3B	2.12	128.64	124.68
23	C	505	CLA	CAA-C2A-C3A	-2.12	106.98	112.78
23	b	608	CLA	C4-C3-C5	2.12	118.83	115.27
25	b	617	BCR	C37-C22-C21	-2.11	119.96	122.92
23	B	606	CLA	C4-C3-C5	2.11	118.83	115.27
24	a	407	PHO	O1D-CGD-CBD	-2.11	121.22	124.74
23	b	602	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
23	C	506	CLA	O1D-CGD-CBD	-2.11	120.17	124.48
24	A	406	PHO	CBA-CAA-C2A	-2.11	107.64	113.81
23	B	616	CLA	O2A-CGA-O1A	-2.11	118.27	123.59
25	k	101	BCR	C36-C18-C19	2.11	121.40	118.08
24	a	407	PHO	C1-C2-C3	-2.11	122.40	126.04
25	Y	101	BCR	C36-C18-C17	-2.11	119.97	122.92
23	c	510	CLA	C6-C7-C8	-2.11	109.11	115.92
25	c	514	BCR	C15-C16-C17	-2.11	119.16	123.47
23	B	616	CLA	C2A-C1A-CHA	-2.11	120.18	123.86
35	b	628	LMT	C3 ¹ -C4 ¹ -C5 ¹	-2.11	106.10	110.93
23	c	512	CLA	CMC-C2C-C1C	2.10	128.24	125.04
23	b	613	CLA	C1-C2-C3	-2.10	122.41	126.04
23	b	607	CLA	O1D-CGD-CBD	-2.10	120.18	124.48
23	B	604	CLA	C1-C2-C3	-2.10	122.41	126.04
23	b	606	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
23	b	615	CLA	C1-O2A-CGA	2.10	121.95	116.44
25	Y	101	BCR	C38-C26-C25	-2.10	122.17	124.53
25	A	408	BCR	C37-C22-C23	2.10	121.38	118.08
34	c	519	LMG	O8-C28-O10	-2.10	118.30	123.59
23	a	404	CLA	CMA-C3A-C4A	-2.10	106.14	111.77
26	a	413	SQD	O8-S-C6	2.10	109.08	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	602	CLA	CMC-C2C-C1C	2.10	128.23	125.04
25	Y	101	BCR	C11-C10-C9	-2.10	124.32	127.31
34	c	520	LMG	C9-C8-C7	-2.09	106.83	111.79
23	B	614	CLA	CED-O2D-CGD	2.09	120.67	115.94
23	c	510	CLA	C2A-C1A-CHA	-2.09	120.20	123.86
37	C	517	DGD	O2G-C1B-O1B	-2.09	118.64	123.70
31	d	407	LHG	O8-C23-O10	-2.09	118.31	123.59
23	b	611	CLA	C7-C6-C5	-2.09	107.67	113.36
23	d	402	CLA	CHD-C4C-NC	2.09	127.50	124.20
23	A	405	CLA	CMC-C2C-C1C	2.09	128.22	125.04
26	A	411	SQD	O48-C23-O10	-2.09	118.31	123.59
23	B	612	CLA	C1-O2A-CGA	2.09	121.93	116.44
23	B	617	CLA	O2A-CGA-O1A	-2.09	118.32	123.59
23	C	505	CLA	O2A-CGA-CBA	2.09	118.47	111.91
23	C	512	CLA	CBC-CAC-C3C	-2.09	106.67	112.43
23	B	604	CLA	C5-C3-C2	-2.09	116.89	121.12
23	C	508	CLA	C2A-C1A-CHA	-2.09	120.21	123.86
35	e	102	LMT	O1B-C1B-C2B	2.09	113.51	108.10
23	B	612	CLA	O2A-CGA-O1A	-2.09	118.33	123.59
25	c	515	BCR	C29-C30-C25	2.09	113.69	110.48
26	D	413	SQD	C46-C45-C44	-2.09	106.85	111.79
23	C	514	CLA	CMB-C2B-C3B	2.09	128.58	124.68
40	V	202	HEC	CMB-C2B-C1B	-2.09	125.26	128.46
35	e	102	LMT	C1B-C2B-C3B	2.08	114.34	110.00
34	c	520	LMG	O8-C28-O10	-2.08	118.33	123.59
25	c	515	BCR	C16-C17-C18	-2.08	124.34	127.31
25	h	102	BCR	C20-C21-C22	-2.08	124.34	127.31
25	B	618	BCR	C33-C5-C4	2.08	117.62	113.62
23	b	604	CLA	CBC-CAC-C3C	-2.08	106.69	112.43
23	D	404	CLA	C11-C12-C13	-2.08	109.19	115.92
23	C	512	CLA	C2A-C1A-CHA	-2.08	120.22	123.86
25	T	101	BCR	C7-C6-C5	-2.08	116.43	121.46
35	M	101	LMT	O1B-C1B-C2B	2.08	113.48	108.10
26	B	621	SQD	O48-C23-O10	-2.08	118.35	123.59
23	C	507	CLA	CMD-C2D-C3D	-2.08	122.84	127.61
29	D	407	PL9	C42-C41-C39	-2.08	106.15	112.98
34	j	101	LMG	C7-O1-C1	-2.07	109.69	113.74
37	H	102	DGD	C3G-O3G-C1D	-2.07	109.69	113.74
23	b	602	CLA	C1B-CHB-C4A	-2.07	126.01	130.12
23	b	615	CLA	C2A-C1A-CHA	-2.07	120.24	123.86
23	a	405	CLA	C2A-C1A-CHA	-2.07	120.24	123.86
24	D	402	PHO	C4A-C3A-C2A	-2.07	100.87	102.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	Y	101	BCR	C33-C5-C4	2.07	117.59	113.62
29	d	405	PL9	C7-C3-C4	2.07	118.56	116.88
23	c	512	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
25	D	406	BCR	C32-C1-C6	-2.07	106.95	110.30
24	A	406	PHO	C7-C6-C5	-2.07	107.75	113.36
24	a	408	PHO	O2A-CGA-CBA	2.07	118.39	111.91
25	y	101	BCR	C7-C6-C5	-2.07	116.46	121.46
23	D	401	CLA	CMA-C3A-C4A	-2.07	106.22	111.77
38	E	103	HEM	O2A-CGA-CBA	2.06	120.66	114.03
23	A	407	CLA	O2D-CGD-O1D	-2.06	119.80	123.84
25	C	516	BCR	C15-C16-C17	-2.06	119.25	123.47
25	a	410	BCR	C3-C4-C5	-2.06	110.40	114.08
23	c	503	CLA	C1-O2A-CGA	2.06	121.85	116.44
25	D	406	BCR	C37-C22-C23	2.06	121.32	118.08
23	c	505	CLA	C1-O2A-CGA	2.06	121.85	116.44
23	a	406	CLA	C2A-C1A-CHA	-2.06	120.26	123.86
25	a	410	BCR	C15-C16-C17	-2.06	119.26	123.47
38	E	103	HEM	C3C-C4C-NC	-2.06	107.06	110.94
34	B	622	LMG	C8-O7-C10	-2.06	112.72	117.79
23	C	510	CLA	C16-C15-C13	-2.06	109.27	115.92
40	v	201	HEC	CMB-C2B-C1B	-2.06	125.30	128.46
23	d	402	CLA	CAC-C3C-C4C	2.06	127.48	124.81
23	b	601	CLA	CAC-C3C-C4C	2.05	127.48	124.81
25	A	408	BCR	C35-C13-C14	-2.05	120.05	122.92
23	a	409	CLA	OBD-CAD-C3D	-2.05	123.58	128.52
23	C	512	CLA	O2D-CGD-O1D	-2.05	119.83	123.84
37	C	517	DGD	O1G-C1A-O1A	-2.05	118.42	123.59
25	C	516	BCR	C38-C26-C25	-2.05	122.22	124.53
23	c	510	CLA	CED-O2D-CGD	2.05	120.58	115.94
26	B	621	SQD	O9-S-C6	2.05	109.38	106.94
23	B	612	CLA	CED-O2D-CGD	2.05	120.57	115.94
25	a	410	BCR	C10-C11-C12	-2.05	116.82	123.22
23	C	509	CLA	CAA-C2A-C3A	-2.05	107.17	112.78
35	C	522	LMT	O5'-C5'-C4'	2.05	114.06	109.75
23	c	507	CLA	O2A-CGA-O1A	-2.04	118.43	123.59
23	b	607	CLA	C1B-CHB-C4A	-2.04	126.07	130.12
23	D	405	CLA	CMB-C2B-C1B	2.04	131.60	128.46
23	b	613	CLA	CBC-CAC-C3C	-2.04	106.80	112.43
35	M	103	LMT	O5'-C5'-C4'	2.04	114.06	109.75
25	D	406	BCR	C10-C11-C12	-2.04	116.84	123.22
23	D	404	CLA	OBD-CAD-C3D	-2.04	123.61	128.52
36	b	621	HTG	C3-C4-C5	2.04	113.88	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	616	CLA	CHB-C4A-NA	2.04	127.33	124.51
35	a	418	LMT	C1B-O1B-C4'	-2.04	112.92	117.96
23	b	602	CLA	CMA-C3A-C2A	-2.04	105.60	113.83
23	b	616	CLA	CED-O2D-CGD	2.04	120.55	115.94
40	v	201	HEC	O2A-CGA-CBA	2.04	120.58	114.03
23	B	603	CLA	C11-C10-C8	-2.04	109.34	115.92
29	A	413	PL9	C7-C8-C9	-2.04	123.40	126.79
23	b	608	CLA	C11-C12-C13	-2.04	109.34	115.92
34	c	519	LMG	C8-O7-C10	-2.04	112.78	117.79
35	e	102	LMT	O5'-C5'-C4'	2.03	114.04	109.75
25	d	404	BCR	C29-C30-C25	2.03	113.61	110.48
23	b	608	CLA	CAC-C3C-C4C	2.03	127.45	124.81
29	a	415	PL9	C7-C8-C9	-2.03	123.41	126.79
23	B	611	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
23	B	605	CLA	C6-C7-C8	-2.03	109.36	115.92
23	b	615	CLA	CHC-C1C-NC	2.03	127.28	124.20
23	C	514	CLA	CMA-C3A-C2A	-2.03	105.64	113.83
23	c	507	CLA	C11-C10-C8	-2.03	109.36	115.92
34	B	622	LMG	C12-C11-C10	-2.03	106.25	113.62
23	a	405	CLA	CMC-C2C-C1C	2.03	128.13	125.04
23	B	608	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
25	B	619	BCR	C10-C11-C12	-2.03	116.89	123.22
37	C	519	DGD	O1G-C1A-O1A	-2.03	118.48	123.59
25	B	619	BCR	C28-C27-C26	-2.03	110.46	114.08
35	D	403	LMT	O1B-C1B-C2B	2.02	113.34	108.10
23	b	616	CLA	CBC-CAC-C3C	-2.02	106.85	112.43
23	a	409	CLA	CMA-C3A-C4A	-2.02	106.33	111.77
23	b	612	CLA	C6-C7-C8	-2.02	109.38	115.92
25	B	619	BCR	C35-C13-C14	-2.02	120.09	122.92
34	C	501	LMG	O8-C28-C29	2.02	118.25	111.91
23	B	610	CLA	C1-O2A-CGA	2.02	121.75	116.44
23	C	512	CLA	C1-C2-C3	-2.02	122.55	126.04
25	B	619	BCR	C36-C18-C17	-2.02	120.09	122.92
23	a	409	CLA	CHB-C4A-NA	2.02	127.31	124.51
23	a	405	CLA	CMA-C3A-C2A	-2.02	105.68	113.83
37	c	518	DGD	O6E-C1E-O5D	-2.02	105.19	109.97
34	a	417	LMG	O1-C1-C2	2.02	111.45	108.30
38	e	103	HEM	O2D-CGD-CBD	2.02	120.51	114.03
23	B	617	CLA	CAC-C3C-C4C	2.02	127.43	124.81
34	C	501	LMG	C30-C29-C28	-2.02	106.29	113.62
23	c	503	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
25	b	617	BCR	C38-C26-C25	-2.02	122.27	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	H	101	BCR	C39-C30-C25	-2.01	107.03	110.30
23	A	405	CLA	CMA-C3A-C2A	-2.01	105.71	113.83
25	C	516	BCR	C37-C22-C23	2.01	121.25	118.08
23	c	508	CLA	C1-O2A-CGA	2.01	121.72	116.44
25	y	101	BCR	C16-C15-C14	-2.01	119.35	123.47
35	B	623	LMT	O1B-C4'-C3'	2.01	112.64	107.28
23	A	405	CLA	CMB-C2B-C3B	2.01	128.44	124.68
23	b	609	CLA	C7-C6-C5	-2.01	107.89	113.36
29	D	407	PL9	C47-C48-C49	-2.01	120.88	127.75
37	C	518	DGD	C3G-O3G-C1D	-2.01	109.81	113.74
23	A	404	CLA	C1B-CHB-C4A	-2.01	126.14	130.12
23	B	608	CLA	CMB-C2B-C3B	2.01	128.44	124.68
23	B	610	CLA	C2A-C1A-CHA	-2.01	120.34	123.86
23	b	606	CLA	C1-C2-C3	-2.01	122.57	126.04
23	b	616	CLA	CHA-C1A-NA	-2.01	121.80	126.40
29	D	407	PL9	C17-C18-C19	-2.01	122.82	127.66
25	C	527	BCR	C33-C5-C6	-2.01	122.27	124.53
23	B	613	CLA	C6-C5-C3	-2.01	108.19	113.45
25	c	514	BCR	C29-C28-C27	-2.01	106.89	111.38
23	c	510	CLA	CAA-C2A-C3A	-2.01	107.28	112.78
23	B	602	CLA	CMB-C2B-C3B	2.00	128.43	124.68
25	C	515	BCR	C21-C20-C19	-2.00	116.96	123.22
25	b	618	BCR	C8-C7-C6	-2.00	121.57	127.20
23	d	402	CLA	CHB-C4A-NA	2.00	127.28	124.51
23	c	503	CLA	C2A-C1A-CHA	-2.00	120.35	123.86
24	D	402	PHO	CAA-CBA-CGA	-2.00	107.40	113.25
25	c	514	BCR	C37-C22-C23	2.00	121.23	118.08
24	A	406	PHO	C4-C3-C5	2.00	118.64	115.27
23	B	603	CLA	C11-C12-C13	-2.00	109.45	115.92
23	B	605	CLA	C11-C10-C8	-2.00	109.45	115.92
23	B	615	CLA	CHC-C1C-NC	2.00	127.24	124.20
23	B	606	CLA	CAA-C2A-C3A	-2.00	107.30	112.78
23	b	611	CLA	C11-C12-C13	-2.00	109.45	115.92

All (65) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
23	A	404	CLA	ND
23	A	407	CLA	ND
23	B	602	CLA	ND
23	B	603	CLA	ND
23	B	604	CLA	ND

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Mol	Chain	Res	Type	Atom
23	B	605	CLA	ND
23	B	606	CLA	ND
23	B	607	CLA	ND
23	B	608	CLA	ND
23	B	609	CLA	ND
23	B	610	CLA	ND
23	B	611	CLA	ND
23	B	612	CLA	ND
23	B	613	CLA	ND
23	B	614	CLA	ND
23	B	615	CLA	ND
23	B	616	CLA	ND
23	B	617	CLA	ND
23	C	502	CLA	ND
23	C	503	CLA	ND
23	C	504	CLA	ND
23	C	505	CLA	ND
23	C	506	CLA	ND
23	C	507	CLA	ND
23	C	508	CLA	ND
23	C	509	CLA	ND
23	C	510	CLA	ND
23	C	511	CLA	ND
23	C	512	CLA	ND
23	C	513	CLA	ND
23	D	401	CLA	ND
23	D	404	CLA	ND
23	D	405	CLA	ND
23	a	404	CLA	ND
23	a	405	CLA	ND
23	a	409	CLA	ND
23	b	601	CLA	ND
23	b	602	CLA	ND
23	b	603	CLA	ND
23	b	604	CLA	ND
23	b	605	CLA	ND
23	b	606	CLA	ND
23	b	607	CLA	ND
23	b	609	CLA	ND
23	b	610	CLA	ND
23	b	611	CLA	ND
23	b	612	CLA	ND

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Mol	Chain	Res	Type	Atom
23	b	613	CLA	ND
23	b	614	CLA	ND
23	b	615	CLA	ND
23	b	616	CLA	ND
23	c	501	CLA	ND
23	c	502	CLA	ND
23	c	503	CLA	ND
23	c	504	CLA	ND
23	c	505	CLA	ND
23	c	506	CLA	ND
23	c	507	CLA	ND
23	c	508	CLA	ND
23	c	509	CLA	ND
23	c	510	CLA	ND
23	c	511	CLA	ND
23	c	512	CLA	ND
23	d	402	CLA	ND
23	d	403	CLA	ND

All (1353) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
23	B	604	CLA	C2-C3-C5-C6
23	B	604	CLA	C4-C3-C5-C6
23	B	607	CLA	CHA-CBD-CGD-O1D
23	B	607	CLA	CHA-CBD-CGD-O2D
23	B	615	CLA	CAD-CBD-CGD-O1D
23	B	615	CLA	CAD-CBD-CGD-O2D
23	B	615	CLA	C2-C3-C5-C6
23	B	615	CLA	C4-C3-C5-C6
23	C	504	CLA	CBD-CGD-O2D-CED
23	C	505	CLA	C2-C3-C5-C6
23	C	505	CLA	C4-C3-C5-C6
23	C	507	CLA	C2-C3-C5-C6
23	C	507	CLA	C4-C3-C5-C6
23	C	510	CLA	C2-C1-O2A-CGA
23	C	510	CLA	C6-C7-C8-C9
23	D	401	CLA	CHA-CBD-CGD-O2D
23	b	603	CLA	C4-C3-C5-C6
23	b	604	CLA	C2-C3-C5-C6
23	b	604	CLA	C4-C3-C5-C6
23	b	608	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
23	b	610	CLA	C11-C12-C13-C14
23	b	614	CLA	CHA-CBD-CGD-O1D
23	b	614	CLA	CHA-CBD-CGD-O2D
23	b	614	CLA	CAD-CBD-CGD-O1D
23	b	614	CLA	C4-C3-C5-C6
23	c	502	CLA	C14-C13-C15-C16
23	c	508	CLA	CHA-CBD-CGD-O1D
23	c	508	CLA	CHA-CBD-CGD-O2D
23	c	509	CLA	C2-C1-O2A-CGA
23	d	403	CLA	C4-C3-C5-C6
25	D	406	BCR	C7-C8-C9-C10
25	D	406	BCR	C7-C8-C9-C34
25	D	406	BCR	C21-C22-C23-C24
25	D	406	BCR	C37-C22-C23-C24
25	H	101	BCR	C5-C6-C7-C8
25	H	101	BCR	C7-C8-C9-C34
25	T	101	BCR	C7-C8-C9-C10
25	T	101	BCR	C7-C8-C9-C34
25	T	101	BCR	C13-C14-C15-C16
25	Y	101	BCR	C1-C6-C7-C8
25	Y	101	BCR	C5-C6-C7-C8
25	b	617	BCR	C1-C6-C7-C8
25	d	404	BCR	C7-C8-C9-C10
25	d	404	BCR	C7-C8-C9-C34
25	d	404	BCR	C21-C22-C23-C24
25	d	404	BCR	C37-C22-C23-C24
25	d	404	BCR	C23-C24-C25-C30
25	y	101	BCR	C1-C6-C7-C8
25	y	101	BCR	C5-C6-C7-C8
26	A	411	SQD	C5-C6-S-O7
26	A	411	SQD	C5-C6-S-O8
26	B	621	SQD	O49-C7-O47-C45
26	B	621	SQD	C8-C7-O47-C45
26	B	621	SQD	C5-C6-S-O7
26	D	413	SQD	O49-C7-O47-C45
26	D	413	SQD	C8-C7-O47-C45
26	D	413	SQD	C5-C6-S-O7
26	D	413	SQD	C5-C6-S-O8
26	D	413	SQD	C5-C6-S-O9
26	L	102	SQD	O49-C7-O47-C45
26	L	102	SQD	C8-C7-O47-C45
26	L	102	SQD	C5-C6-S-O7

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Mol	Chain	Res	Type	Atoms
26	L	102	SQD	C5-C6-S-O8
26	L	102	SQD	C5-C6-S-O9
26	a	413	SQD	C5-C6-S-O7
26	a	413	SQD	C5-C6-S-O8
26	a	413	SQD	C5-C6-S-O9
26	f	101	SQD	O49-C7-O47-C45
26	f	101	SQD	C8-C7-O47-C45
26	f	101	SQD	C5-C6-S-O7
26	f	101	SQD	C5-C6-S-O8
26	f	101	SQD	C5-C6-S-O9
27	B	627	GOL	O1-C1-C2-C3
27	B	628	GOL	C1-C2-C3-O3
27	B	628	GOL	O2-C2-C3-O3
27	C	525	GOL	O1-C1-C2-O2
27	C	525	GOL	O1-C1-C2-C3
27	O	302	GOL	O1-C1-C2-C3
27	a	412	GOL	O1-C1-C2-O2
27	a	412	GOL	O1-C1-C2-C3
27	b	624	GOL	O1-C1-C2-C3
27	d	401	GOL	O1-C1-C2-O2
27	d	401	GOL	O1-C1-C2-C3
29	A	413	PL9	C15-C14-C16-C17
29	A	413	PL9	C23-C24-C26-C27
29	A	413	PL9	C25-C24-C26-C27
29	a	415	PL9	C14-C16-C17-C18
29	a	415	PL9	C28-C29-C31-C32
29	a	415	PL9	C30-C29-C31-C32
31	D	408	LHG	C4-O6-P-O4
31	D	408	LHG	C4-O6-P-O5
31	E	101	LHG	C3-O3-P-O4
31	E	101	LHG	C3-O3-P-O5
31	E	101	LHG	C3-O3-P-O6
31	E	101	LHG	O10-C23-O8-C6
31	E	101	LHG	C24-C23-O8-C6
31	L	101	LHG	C4-O6-P-O4
31	b	630	LHG	C4-O6-P-O3
31	b	630	LHG	C4-O6-P-O4
31	b	630	LHG	C4-O6-P-O5
31	d	406	LHG	C3-O3-P-O4
31	d	407	LHG	O2-C2-C3-O3
31	d	407	LHG	C3-O3-P-O5
31	d	407	LHG	C4-O6-P-O4

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Mol	Chain	Res	Type	Atoms
31	d	407	LHG	C4-O6-P-O5
31	d	408	LHG	C4-O6-P-O4
31	e	101	LHG	C3-O3-P-O5
31	e	101	LHG	O10-C23-O8-C6
31	e	101	LHG	C24-C23-O8-C6
34	C	501	LMG	O9-C10-O7-C8
34	Z	101	LMG	C2-C1-O1-C7
34	Z	101	LMG	O9-C10-O7-C8
34	Z	101	LMG	C11-C10-O7-C8
34	c	520	LMG	O9-C10-O7-C8
34	c	520	LMG	C11-C10-O7-C8
34	z	101	LMG	O6-C1-O1-C7
34	z	101	LMG	O9-C10-O7-C8
34	z	101	LMG	C11-C10-O7-C8
35	B	632	LMT	C2'-C1'-O1'-C1
35	B	632	LMT	O5'-C1'-O1'-C1
35	B	633	LMT	C2'-C1'-O1'-C1
35	B	633	LMT	O5'-C1'-O1'-C1
35	B	634	LMT	O5'-C1'-O1'-C1
35	B	634	LMT	C2-C1-O1'-C1'
35	C	522	LMT	O5'-C1'-O1'-C1
35	D	403	LMT	C2'-C1'-O1'-C1
35	D	403	LMT	O5'-C1'-O1'-C1
35	E	102	LMT	C2'-C1'-O1'-C1
35	E	102	LMT	O5'-C1'-O1'-C1
35	M	103	LMT	C2'-C1'-O1'-C1
35	M	103	LMT	O5'-C1'-O1'-C1
35	a	418	LMT	C2'-C1'-O1'-C1
35	a	418	LMT	O5'-C1'-O1'-C1
35	b	620	LMT	C2'-C1'-O1'-C1
35	b	620	LMT	O5'-C1'-O1'-C1
35	b	628	LMT	O5'-C1'-O1'-C1
35	e	102	LMT	C2'-C1'-O1'-C1
35	e	102	LMT	O5'-C1'-O1'-C1
35	m	103	LMT	C2'-C1'-O1'-C1
36	B	624	HTG	C2'-C1'-S1-C1
36	B	625	HTG	C2'-C1'-S1-C1
36	B	626	HTG	O5-C1-S1-C1'
38	e	103	HEM	C2B-C3B-CAB-CBB
23	b	608	CLA	O1D-CGD-O2D-CED
35	C	522	LMT	C3'-C4'-O1B-C1B
23	c	501	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
23	C	504	CLA	O1D-CGD-O2D-CED
23	B	615	CLA	C3-C5-C6-C7
23	b	614	CLA	C3-C5-C6-C7
23	d	403	CLA	C3-C5-C6-C7
34	C	501	LMG	C11-C10-O7-C8
23	c	509	CLA	CBD-CGD-O2D-CED
23	c	507	CLA	C4-C3-C5-C6
29	a	415	PL9	C25-C24-C26-C27
23	b	603	CLA	C2-C3-C5-C6
29	A	413	PL9	C13-C14-C16-C17
23	c	507	CLA	C2A-CAA-CBA-CGA
23	A	407	CLA	C3-C5-C6-C7
23	c	506	CLA	C3-C5-C6-C7
23	A	405	CLA	CBD-CGD-O2D-CED
23	C	514	CLA	CBD-CGD-O2D-CED
34	C	521	LMG	O6-C5-C6-O5
35	M	103	LMT	C4B-C5B-C6B-O6B
31	A	415	LHG	O2-C2-C3-O3
23	B	617	CLA	C3-C5-C6-C7
23	C	513	CLA	C3-C5-C6-C7
35	B	623	LMT	O5B-C5B-C6B-O6B
35	C	522	LMT	O5B-C5B-C6B-O6B
35	M	103	LMT	O5'-C5'-C6'-O6'
36	B	626	HTG	O5-C5-C6-O6
36	b	625	HTG	O5-C5-C6-O6
34	c	519	LMG	C4-C5-C6-O5
36	h	101	HTG	C4-C5-C6-O6
23	b	614	CLA	CBD-CGD-O2D-CED
34	c	520	LMG	O6-C5-C6-O5
35	E	102	LMT	O5'-C5'-C6'-O6'
23	C	508	CLA	C4-C3-C5-C6
23	b	605	CLA	C4-C3-C5-C6
23	c	504	CLA	C4-C3-C5-C6
29	a	415	PL9	C15-C14-C16-C17
23	C	508	CLA	C2-C3-C5-C6
23	b	605	CLA	C2-C3-C5-C6
23	b	614	CLA	C2-C3-C5-C6
23	c	504	CLA	C2-C3-C5-C6
23	c	507	CLA	C2-C3-C5-C6
23	d	403	CLA	C2-C3-C5-C6
29	a	415	PL9	C13-C14-C16-C17
23	B	607	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
34	c	519	LMG	O6-C5-C6-O5
26	B	621	SQD	O5-C1-O6-C44
35	m	103	LMT	O5'-C1'-O1'-C1
29	A	413	PL9	C14-C16-C17-C18
29	D	407	PL9	C39-C41-C42-C43
29	d	405	PL9	C39-C41-C42-C43
31	d	408	LHG	C33-C34-C35-C36
31	A	415	LHG	C1-C2-C3-O3
31	d	407	LHG	C1-C2-C3-O3
36	h	101	HTG	O5-C5-C6-O6
23	c	509	CLA	C3-C5-C6-C7
23	A	407	CLA	CBA-CGA-O2A-C1
23	B	602	CLA	CBA-CGA-O2A-C1
23	C	510	CLA	CBA-CGA-O2A-C1
25	t	101	BCR	C13-C14-C15-C16
23	B	615	CLA	C5-C6-C7-C8
35	B	623	LMT	C4B-C5B-C6B-O6B
31	D	408	LHG	O2-C2-C3-O3
35	B	634	LMT	C2'-C1'-O1'-C1
26	A	411	SQD	O6-C44-C45-O47
26	a	413	SQD	O6-C44-C45-O47
35	M	103	LMT	O5B-C5B-C6B-O6B
23	B	603	CLA	C6-C7-C8-C9
23	B	606	CLA	C6-C7-C8-C9
23	C	513	CLA	C6-C7-C8-C9
23	b	604	CLA	C11-C10-C8-C9
23	b	616	CLA	C6-C7-C8-C9
23	c	504	CLA	C11-C12-C13-C14
23	c	506	CLA	C6-C7-C8-C9
23	c	512	CLA	C6-C7-C8-C9
23	B	617	CLA	C10-C11-C12-C13
23	a	404	CLA	C15-C16-C17-C18
23	b	606	CLA	C2A-CAA-CBA-CGA
23	b	610	CLA	C2A-CAA-CBA-CGA
25	H	101	BCR	C7-C8-C9-C10
26	A	409	SQD	C8-C7-O47-C45
34	Z	101	LMG	C10-C11-C12-C13
23	B	602	CLA	C5-C6-C7-C8
23	B	615	CLA	C8-C10-C11-C12
23	C	514	CLA	C13-C15-C16-C17
23	b	611	CLA	C15-C16-C17-C18
23	b	616	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
34	z	101	LMG	O6-C5-C6-O5
35	E	102	LMT	C4'-C5'-C6'-O6'
23	C	511	CLA	CBA-CGA-O2A-C1
23	B	602	CLA	C15-C16-C17-C18
23	B	615	CLA	C10-C11-C12-C13
23	b	607	CLA	C13-C15-C16-C17
23	c	507	CLA	C8-C10-C11-C12
23	c	509	CLA	C5-C6-C7-C8
36	c	522	HTG	O5-C5-C6-O6
23	B	606	CLA	C5-C6-C7-C8
23	C	506	CLA	C8-C10-C11-C12
23	b	606	CLA	C13-C15-C16-C17
23	b	614	CLA	C13-C15-C16-C17
23	c	513	CLA	C15-C16-C17-C18
23	C	510	CLA	O1A-CGA-O2A-C1
34	c	519	LMG	C28-C29-C30-C31
37	C	518	DGD	C1A-C2A-C3A-C4A
23	c	502	CLA	C13-C15-C16-C17
23	c	502	CLA	C15-C16-C17-C18
23	c	511	CLA	C3-C5-C6-C7
23	a	409	CLA	CBA-CGA-O2A-C1
23	d	403	CLA	CBA-CGA-O2A-C1
31	d	408	LHG	C24-C23-O8-C6
36	b	623	HTG	O5-C5-C6-O6
23	b	601	CLA	C2-C1-O2A-CGA
23	b	605	CLA	C5-C6-C7-C8
37	c	517	DGD	C1B-C2B-C3B-C4B
23	C	509	CLA	C10-C11-C12-C13
23	b	602	CLA	C15-C16-C17-C18
23	B	603	CLA	C11-C12-C13-C15
23	B	616	CLA	C11-C12-C13-C15
23	C	507	CLA	C6-C7-C8-C10
23	C	511	CLA	C6-C7-C8-C10
23	B	607	CLA	C13-C15-C16-C17
23	b	601	CLA	C8-C10-C11-C12
23	b	604	CLA	C15-C16-C17-C18
23	b	605	CLA	C8-C10-C11-C12
23	c	504	CLA	C5-C6-C7-C8
36	B	624	HTG	C1'-C2'-C3'-C4'
31	D	408	LHG	C32-C33-C34-C35
35	B	623	LMT	C3'-C4'-O1B-C1B
23	A	407	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
23	C	503	CLA	CBD-CGD-O2D-CED
23	c	513	CLA	C13-C15-C16-C17
29	a	415	PL9	C24-C26-C27-C28
29	a	415	PL9	C39-C41-C42-C43
37	c	516	DGD	O6D-C5D-C6D-O5D
26	A	409	SQD	O49-C7-O47-C45
23	b	616	CLA	C3-C5-C6-C7
23	C	502	CLA	C15-C16-C17-C18
35	B	623	LMT	C5'-C4'-O1B-C1B
23	B	602	CLA	O1A-CGA-O2A-C1
23	d	403	CLA	O1A-CGA-O2A-C1
34	c	520	LMG	C4-C5-C6-O5
23	C	507	CLA	C8-C10-C11-C12
23	b	606	CLA	C10-C11-C12-C13
23	b	606	CLA	C15-C16-C17-C18
35	B	634	LMT	O1'-C1-C2-C3
35	M	103	LMT	C4'-C5'-C6'-O6'
23	C	511	CLA	O1A-CGA-O2A-C1
23	a	409	CLA	O1A-CGA-O2A-C1
23	c	509	CLA	O1A-CGA-O2A-C1
26	B	621	SQD	C30-C31-C32-C33
26	L	102	SQD	C18-C19-C20-C21
31	e	101	LHG	C11-C12-C13-C14
23	B	616	CLA	C8-C10-C11-C12
31	D	408	LHG	C4-O6-P-O3
31	L	101	LHG	C4-O6-P-O3
31	d	406	LHG	C3-O3-P-O6
31	d	407	LHG	C4-O6-P-O3
31	e	101	LHG	C3-O3-P-O6
35	b	628	LMT	O1'-C1-C2-C3
23	B	606	CLA	CBA-CGA-O2A-C1
23	c	509	CLA	CBA-CGA-O2A-C1
23	c	510	CLA	C10-C11-C12-C13
34	j	101	LMG	C10-C11-C12-C13
34	a	417	LMG	O9-C10-O7-C8
23	B	605	CLA	C4-C3-C5-C6
23	c	509	CLA	O1D-CGD-O2D-CED
23	B	611	CLA	C2A-CAA-CBA-CGA
23	b	604	CLA	C3-C5-C6-C7
37	C	517	DGD	O6D-C5D-C6D-O5D
23	b	604	CLA	C8-C10-C11-C12
23	b	611	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
34	a	417	LMG	C11-C10-O7-C8
23	B	603	CLA	C15-C16-C17-C18
26	A	409	SQD	C9-C10-C11-C12
26	L	102	SQD	C27-C28-C29-C30
26	a	411	SQD	C9-C10-C11-C12
26	a	411	SQD	C15-C16-C17-C18
31	d	408	LHG	C32-C33-C34-C35
34	j	101	LMG	C21-C22-C23-C24
34	m	101	LMG	C35-C36-C37-C38
37	H	102	DGD	C6A-C7A-C8A-C9A
23	B	616	CLA	C16-C17-C18-C20
34	m	101	LMG	C38-C39-C40-C41
31	L	101	LHG	C25-C26-C27-C28
34	C	521	LMG	C16-C17-C18-C19
34	a	417	LMG	C31-C32-C33-C34
23	c	501	CLA	O1D-CGD-O2D-CED
26	A	409	SQD	C11-C10-C9-C8
26	a	411	SQD	C11-C12-C13-C14
23	c	508	CLA	C5-C6-C7-C8
34	B	622	LMG	C36-C37-C38-C39
35	m	103	LMT	C7-C8-C9-C10
23	C	508	CLA	CBD-CGD-O2D-CED
37	C	518	DGD	C2E-C1E-O5D-C6D
37	c	516	DGD	C2E-C1E-O5D-C6D
26	a	413	SQD	C24-C25-C26-C27
31	E	101	LHG	C24-C25-C26-C27
34	C	501	LMG	C14-C15-C16-C17
31	d	408	LHG	O10-C23-O8-C6
23	B	609	CLA	C16-C17-C18-C20
23	C	514	CLA	O1D-CGD-O2D-CED
23	C	506	CLA	C4-C3-C5-C6
31	A	415	LHG	C32-C33-C34-C35
34	C	520	LMG	C16-C17-C18-C19
34	J	101	LMG	C30-C31-C32-C33
34	a	417	LMG	C30-C31-C32-C33
37	C	517	DGD	C5B-C6B-C7B-C8B
23	C	506	CLA	C2-C3-C5-C6
23	A	407	CLA	C11-C10-C8-C9
23	B	617	CLA	C6-C7-C8-C9
23	C	511	CLA	C14-C13-C15-C16
23	a	406	CLA	C11-C12-C13-C14
23	c	505	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
26	A	411	SQD	C16-C17-C18-C19
31	D	408	LHG	C13-C14-C15-C16
34	Z	101	LMG	C17-C18-C19-C20
37	C	517	DGD	C9A-CAA-CBA-CCA
23	a	404	CLA	C2A-CAA-CBA-CGA
35	C	522	LMT	C4B-C5B-C6B-O6B
37	C	517	DGD	C4D-C5D-C6D-O5D
37	c	516	DGD	C4D-C5D-C6D-O5D
34	c	519	LMG	C33-C34-C35-C36
27	A	410	GOL	O1-C1-C2-C3
27	A	410	GOL	C1-C2-C3-O3
27	B	627	GOL	C1-C2-C3-O3
31	A	415	LHG	O1-C1-C2-C3
31	D	409	LHG	O1-C1-C2-C3
23	c	506	CLA	C10-C11-C12-C13
34	C	521	LMG	C37-C38-C39-C40
34	J	101	LMG	C19-C20-C21-C22
37	C	519	DGD	CBA-CCA-CDA-CEA
37	c	517	DGD	C4B-C5B-C6B-C7B
26	A	409	SQD	C15-C16-C17-C18
26	A	411	SQD	C18-C19-C20-C21
31	e	101	LHG	C26-C27-C28-C29
34	C	520	LMG	C12-C13-C14-C15
34	m	101	LMG	C39-C40-C41-C42
37	H	102	DGD	C5B-C6B-C7B-C8B
23	B	611	CLA	C16-C17-C18-C19
23	B	616	CLA	C16-C17-C18-C19
23	b	615	CLA	C16-C17-C18-C20
34	Z	101	LMG	O6-C1-O1-C7
37	c	516	DGD	O6E-C1E-O5D-C6D
23	B	602	CLA	C10-C11-C12-C13
23	a	404	CLA	C13-C15-C16-C17
29	d	405	PL9	C34-C36-C37-C38
35	B	634	LMT	C6-C7-C8-C9
37	c	516	DGD	C5A-C6A-C7A-C8A
26	D	413	SQD	C30-C31-C32-C33
31	D	409	LHG	C13-C14-C15-C16
31	b	630	LHG	C12-C13-C14-C15
34	C	521	LMG	C17-C18-C19-C20
37	H	102	DGD	CBA-CCA-CDA-CEA
34	B	622	LMG	C28-C29-C30-C31
23	b	615	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
23	B	606	CLA	O1A-CGA-O2A-C1
26	a	413	SQD	C25-C26-C27-C28
34	B	622	LMG	C17-C18-C19-C20
34	m	101	LMG	C14-C15-C16-C17
35	B	633	LMT	C2-C3-C4-C5
36	B	629	HTG	O5-C5-C6-O6
37	C	517	DGD	C7B-C8B-C9B-CAB
37	C	518	DGD	CAB-CBB-CCB-CDB
23	C	508	CLA	C5-C6-C7-C8
23	b	603	CLA	C13-C15-C16-C17
23	c	506	CLA	C13-C15-C16-C17
26	A	409	SQD	C12-C13-C14-C15
23	c	502	CLA	C16-C17-C18-C20
26	L	102	SQD	C24-C25-C26-C27
26	f	101	SQD	C29-C30-C31-C32
31	D	409	LHG	C26-C27-C28-C29
36	B	626	HTG	C3'-C4'-C5'-C6'
37	c	517	DGD	C9A-CAA-CBA-CCA
23	A	405	CLA	O1D-CGD-O2D-CED
23	B	605	CLA	C3-C5-C6-C7
23	D	401	CLA	C15-C16-C17-C18
23	B	616	CLA	C4-C3-C5-C6
23	b	611	CLA	C4-C3-C5-C6
23	c	505	CLA	C4-C3-C5-C6
24	a	407	PHO	C4-C3-C5-C6
29	D	407	PL9	C30-C29-C31-C32
23	b	609	CLA	C2-C3-C5-C6
23	c	505	CLA	C2-C3-C5-C6
24	a	407	PHO	C2-C3-C5-C6
29	D	407	PL9	C28-C29-C31-C32
34	m	101	LMG	C11-C10-O7-C8
31	d	406	LHG	C25-C26-C27-C28
37	C	517	DGD	C8A-C9A-CAA-CBA
27	B	627	GOL	O2-C2-C3-O3
27	O	302	GOL	O1-C1-C2-O2
27	b	624	GOL	O1-C1-C2-O2
35	b	628	LMT	C4'-C5'-C6'-O6'
36	B	626	HTG	C4-C5-C6-O6
26	D	413	SQD	C24-C25-C26-C27
34	m	101	LMG	O9-C10-O7-C8
31	D	408	LHG	C14-C15-C16-C17
23	C	511	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
26	B	621	SQD	C24-C25-C26-C27
26	L	102	SQD	C13-C14-C15-C16
31	E	101	LHG	C27-C28-C29-C30
37	h	103	DGD	CAA-CBA-CCA-CDA
25	B	618	BCR	C1-C6-C7-C8
25	D	406	BCR	C23-C24-C25-C26
25	D	406	BCR	C23-C24-C25-C30
25	H	101	BCR	C1-C6-C7-C8
25	T	101	BCR	C1-C6-C7-C8
25	T	101	BCR	C5-C6-C7-C8
25	b	617	BCR	C5-C6-C7-C8
25	d	404	BCR	C23-C24-C25-C26
26	D	413	SQD	C32-C33-C34-C35
35	b	628	LMT	C4-C5-C6-C7
31	D	409	LHG	C24-C23-O8-C6
31	D	408	LHG	C16-C17-C18-C19
35	M	101	LMT	C2-C3-C4-C5
35	m	103	LMT	C11-C10-C9-C8
36	b	625	HTG	C3'-C4'-C5'-C6'
26	D	413	SQD	C7-C8-C9-C10
26	D	413	SQD	C23-C24-C25-C26
35	b	620	LMT	C1-C2-C3-C4
23	b	601	CLA	C10-C11-C12-C13
37	C	519	DGD	C8B-C9B-CAB-CBB
23	b	609	CLA	C4-C3-C5-C6
29	D	407	PL9	C15-C14-C16-C17
23	A	407	CLA	C11-C10-C8-C7
23	B	616	CLA	C2-C3-C5-C6
23	C	511	CLA	C12-C13-C15-C16
23	D	405	CLA	C11-C10-C8-C7
23	a	406	CLA	C6-C7-C8-C10
23	b	606	CLA	C11-C10-C8-C7
23	b	611	CLA	C2-C3-C5-C6
23	c	504	CLA	C11-C12-C13-C15
23	c	504	CLA	C12-C13-C15-C16
23	c	505	CLA	C11-C12-C13-C15
23	c	509	CLA	C12-C13-C15-C16
29	D	407	PL9	C13-C14-C16-C17
36	h	101	HTG	S1-C1'-C2'-C3'
23	b	605	CLA	C3-C5-C6-C7
31	D	409	LHG	O10-C23-O8-C6
26	L	102	SQD	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
31	L	101	LHG	C17-C18-C19-C20
37	c	517	DGD	C3B-C4B-C5B-C6B
36	B	625	HTG	C4-C5-C6-O6
23	B	611	CLA	C13-C15-C16-C17
23	C	507	CLA	C13-C15-C16-C17
23	D	405	CLA	C10-C11-C12-C13
23	b	608	CLA	C13-C15-C16-C17
26	A	411	SQD	C15-C16-C17-C18
35	M	103	LMT	O1'-C1-C2-C3
34	C	520	LMG	C37-C38-C39-C40
26	a	411	SQD	C27-C28-C29-C30
34	C	521	LMG	C15-C16-C17-C18
37	C	518	DGD	C7B-C8B-C9B-CAB
37	c	517	DGD	C5A-C6A-C7A-C8A
23	B	605	CLA	C2C-C3C-CAC-CBC
26	a	413	SQD	C27-C28-C29-C30
31	L	101	LHG	C34-C35-C36-C37
34	J	101	LMG	C35-C36-C37-C38
23	C	512	CLA	CBD-CGD-O2D-CED
23	b	607	CLA	C16-C17-C18-C19
37	C	518	DGD	O6E-C1E-O5D-C6D
37	c	517	DGD	O6E-C1E-O5D-C6D
26	a	413	SQD	C33-C34-C35-C36
26	A	411	SQD	C8-C7-O47-C45
26	a	413	SQD	C8-C7-O47-C45
31	E	101	LHG	C8-C7-O7-C5
26	L	102	SQD	C10-C11-C12-C13
38	e	103	HEM	C4B-C3B-CAB-CBB
23	B	610	CLA	CBD-CGD-O2D-CED
31	L	101	LHG	C12-C13-C14-C15
26	A	411	SQD	O49-C7-O47-C45
23	b	601	CLA	C3-C5-C6-C7
35	b	628	LMT	C2'-C1'-O1'-C1
26	A	409	SQD	O6-C44-C45-O47
23	B	612	CLA	C8-C10-C11-C12
29	a	415	PL9	C23-C24-C26-C27
29	A	413	PL9	C4-C3-C7-C8
29	a	415	PL9	C4-C3-C7-C8
23	B	603	CLA	C11-C12-C13-C14
23	C	511	CLA	C6-C7-C8-C9
23	D	405	CLA	C11-C10-C8-C9
23	a	406	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
23	b	606	CLA	C11-C10-C8-C9
23	c	504	CLA	C14-C13-C15-C16
23	c	509	CLA	C14-C13-C15-C16
34	j	101	LMG	C29-C30-C31-C32
23	c	510	CLA	C3-C5-C6-C7
35	D	403	LMT	O1'-C1-C2-C3
34	Z	101	LMG	O6-C5-C6-O5
35	B	623	LMT	O5'-C5'-C6'-O6'
26	a	413	SQD	C7-C8-C9-C10
23	C	510	CLA	C8-C10-C11-C12
35	b	628	LMT	C3-C4-C5-C6
23	B	610	CLA	C1A-C2A-CAA-CBA
23	C	502	CLA	C1A-C2A-CAA-CBA
23	C	512	CLA	C1A-C2A-CAA-CBA
23	a	406	CLA	C1A-C2A-CAA-CBA
23	c	501	CLA	C1A-C2A-CAA-CBA
23	c	512	CLA	C1A-C2A-CAA-CBA
23	B	611	CLA	C16-C17-C18-C20
23	b	615	CLA	C16-C17-C18-C19
23	c	502	CLA	C16-C17-C18-C19
26	a	413	SQD	O49-C7-O47-C45
31	E	101	LHG	O9-C7-O7-C5
34	B	622	LMG	O9-C10-O7-C8
35	E	102	LMT	C2B-C1B-O1B-C4'
34	B	622	LMG	C11-C10-O7-C8
31	d	407	LHG	C3-O3-P-O6
37	H	102	DGD	C4A-C5A-C6A-C7A
31	D	408	LHG	C7-C8-C9-C10
34	C	501	LMG	C10-C11-C12-C13
35	C	522	LMT	O5'-C5'-C6'-O6'
35	e	102	LMT	C4'-C5'-C6'-O6'
35	e	102	LMT	C4-C5-C6-C7
23	b	615	CLA	C5-C6-C7-C8
31	b	630	LHG	O6-C4-C5-C6
35	E	102	LMT	O5B-C1B-O1B-C4'
34	J	101	LMG	C12-C13-C14-C15
37	C	518	DGD	C9B-CAB-CBB-CCB
37	H	102	DGD	CDB-CEB-CFB-CGB
23	B	606	CLA	C8-C10-C11-C12
23	B	612	CLA	C16-C17-C18-C20
34	c	519	LMG	C35-C36-C37-C38
37	c	518	DGD	CAB-CBB-CCB-CDB

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Mol	Chain	Res	Type	Atoms
31	A	415	LHG	C25-C26-C27-C28
31	d	408	LHG	C27-C28-C29-C30
23	b	612	CLA	C10-C11-C12-C13
37	h	103	DGD	C5B-C6B-C7B-C8B
37	c	516	DGD	O6E-C5E-C6E-O5E
23	C	511	CLA	C4-C3-C5-C6
29	d	405	PL9	C15-C14-C16-C17
31	L	101	LHG	C30-C31-C32-C33
31	e	101	LHG	C9-C10-C11-C12
23	B	609	CLA	C16-C17-C18-C19
23	a	409	CLA	C16-C17-C18-C20
35	b	628	LMT	O5'-C5'-C6'-O6'
26	B	621	SQD	C44-C45-C46-O48
26	L	102	SQD	C44-C45-C46-O48
35	e	102	LMT	C3-C4-C5-C6
34	j	101	LMG	C38-C39-C40-C41
37	C	518	DGD	C5D-C6D-O5D-C1E
37	c	517	DGD	C5D-C6D-O5D-C1E
31	A	415	LHG	C9-C10-C11-C12
23	b	609	CLA	C13-C15-C16-C17
36	b	623	HTG	S1-C1'-C2'-C3'
31	L	101	LHG	C24-C25-C26-C27
31	d	407	LHG	C34-C35-C36-C37
37	C	518	DGD	CDA-CEA-CFA-CGA
27	A	410	GOL	O1-C1-C2-O2
27	B	627	GOL	O1-C1-C2-O2
34	C	521	LMG	C4-C5-C6-O5
37	c	517	DGD	CBA-CCA-CDA-CEA
35	C	522	LMT	C1-C2-C3-C4
23	B	603	CLA	C13-C15-C16-C17
23	a	405	CLA	C15-C16-C17-C18
34	J	101	LMG	O6-C5-C6-O5
37	C	517	DGD	O6E-C5E-C6E-O5E
31	A	415	LHG	C11-C10-C9-C8
37	C	518	DGD	CCB-CDB-CEB-CFB
37	c	518	DGD	CBA-CCA-CDA-CEA
23	b	601	CLA	CBA-CGA-O2A-C1
23	c	512	CLA	CBA-CGA-O2A-C1
37	c	516	DGD	C2A-C1A-O1G-C1G
35	m	103	LMT	C9-C10-C11-C12
36	b	621	HTG	S1-C1'-C2'-C3'
31	D	408	LHG	C28-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
26	L	102	SQD	C46-C45-O47-C7
34	j	101	LMG	O6-C5-C6-O5
23	C	502	CLA	C2A-CAA-CBA-CGA
23	b	610	CLA	C15-C16-C17-C18
34	a	417	LMG	C35-C36-C37-C38
36	b	625	HTG	C4'-C5'-C6'-C7'
23	C	503	CLA	O1D-CGD-O2D-CED
26	f	101	SQD	C26-C27-C28-C29
26	f	101	SQD	C31-C32-C33-C34
23	b	611	CLA	CBA-CGA-O2A-C1
23	B	612	CLA	C16-C17-C18-C19
37	c	516	DGD	CDA-CEA-CFA-CGA
34	C	501	LMG	C37-C38-C39-C40
23	b	605	CLA	CBD-CGD-O2D-CED
23	B	613	CLA	C10-C11-C12-C13
23	C	510	CLA	C10-C11-C12-C13
34	m	101	LMG	C2-C1-O1-C7
35	C	522	LMT	C2'-C1'-O1'-C1
37	C	517	DGD	C2E-C1E-O5D-C6D
37	c	517	DGD	C2E-C1E-O5D-C6D
37	h	103	DGD	C9B-CAB-CBB-CCB
23	b	601	CLA	CAA-CBA-CGA-O2A
37	h	103	DGD	O2G-C1B-C2B-C3B
26	f	101	SQD	O6-C44-C45-O47
23	c	502	CLA	C10-C11-C12-C13
23	b	611	CLA	O1A-CGA-O2A-C1
26	A	409	SQD	C16-C17-C18-C19
31	b	630	LHG	C32-C33-C34-C35
31	d	407	LHG	C13-C14-C15-C16
34	c	519	LMG	C10-C11-C12-C13
23	A	405	CLA	C12-C13-C15-C16
23	B	605	CLA	C6-C7-C8-C10
23	C	511	CLA	C2-C3-C5-C6
23	a	406	CLA	C11-C12-C13-C15
23	b	601	CLA	C6-C7-C8-C10
23	b	604	CLA	C11-C10-C8-C7
23	b	615	CLA	C12-C13-C15-C16
23	c	506	CLA	C6-C7-C8-C10
29	d	405	PL9	C13-C14-C16-C17
37	H	102	DGD	O2G-C1B-C2B-C3B
23	B	605	CLA	C6-C7-C8-C9
23	B	615	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
23	C	505	CLA	C14-C13-C15-C16
23	C	507	CLA	C6-C7-C8-C9
23	C	514	CLA	C11-C10-C8-C9
23	b	601	CLA	C6-C7-C8-C9
23	b	601	CLA	C11-C10-C8-C9
23	C	502	CLA	CBD-CGD-O2D-CED
34	C	520	LMG	C17-C18-C19-C20
35	m	103	LMT	C3-C4-C5-C6
35	m	103	LMT	C6-C7-C8-C9
26	B	621	SQD	C24-C23-O48-C46
37	c	518	DGD	C2A-C1A-O1G-C1G
34	Z	101	LMG	C15-C16-C17-C18
37	c	516	DGD	O1A-C1A-O1G-C1G
34	C	520	LMG	C11-C10-O7-C8
35	E	102	LMT	C5-C6-C7-C8
36	B	624	HTG	C4'-C5'-C6'-C7'
26	L	102	SQD	C24-C23-O48-C46
23	b	616	CLA	C8-C10-C11-C12
34	z	101	LMG	C16-C17-C18-C19
35	a	418	LMT	C4-C5-C6-C7
23	B	610	CLA	O1D-CGD-O2D-CED
23	B	604	CLA	C3-C5-C6-C7
34	a	417	LMG	C10-C11-C12-C13
31	D	409	LHG	C17-C18-C19-C20
31	b	630	LHG	C14-C15-C16-C17
31	e	101	LHG	C24-C25-C26-C27
23	b	601	CLA	C4-C3-C5-C6
34	c	520	LMG	C21-C22-C23-C24
23	b	601	CLA	O1A-CGA-O2A-C1
23	c	512	CLA	C3-C5-C6-C7
36	B	625	HTG	C2'-C3'-C4'-C5'
23	c	511	CLA	CBA-CGA-O2A-C1
34	C	520	LMG	C36-C37-C38-C39
35	B	632	LMT	C7-C8-C9-C10
23	B	610	CLA	C3A-C2A-CAA-CBA
23	C	507	CLA	C3A-C2A-CAA-CBA
23	c	512	CLA	C3A-C2A-CAA-CBA
26	f	101	SQD	C27-C28-C29-C30
26	A	411	SQD	C19-C20-C21-C22
31	d	407	LHG	C26-C27-C28-C29
37	C	518	DGD	C9A-CAA-CBA-CCA
31	d	406	LHG	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
23	b	605	CLA	CBA-CGA-O2A-C1
31	d	407	LHG	C32-C33-C34-C35
23	D	401	CLA	C13-C15-C16-C17
23	b	610	CLA	C13-C15-C16-C17
26	A	409	SQD	O6-C44-C45-C46
26	A	411	SQD	O6-C44-C45-C46
26	a	413	SQD	O6-C44-C45-C46
31	E	101	LHG	C4-C5-C6-O8
31	e	101	LHG	C4-C5-C6-O8
34	a	417	LMG	C7-C8-C9-O8
37	h	103	DGD	O1G-C1G-C2G-C3G
26	a	411	SQD	C30-C31-C32-C33
37	C	517	DGD	C6B-C7B-C8B-C9B
37	C	517	DGD	CAB-CBB-CCB-CDB
23	B	603	CLA	O2A-C1-C2-C3
34	c	519	LMG	C29-C30-C31-C32
37	c	517	DGD	CAA-CBA-CCA-CDA
34	C	520	LMG	C28-C29-C30-C31
37	c	518	DGD	O1A-C1A-O1G-C1G
23	b	614	CLA	O1D-CGD-O2D-CED
31	D	409	LHG	O1-C1-C2-O2
26	A	411	SQD	C30-C31-C32-C33
31	d	406	LHG	C33-C34-C35-C36
23	B	605	CLA	CBA-CGA-O2A-C1
31	b	630	LHG	C35-C36-C37-C38
23	b	605	CLA	O1A-CGA-O2A-C1
23	c	512	CLA	O1A-CGA-O2A-C1
26	B	621	SQD	O10-C23-O48-C46
23	D	401	CLA	C16-C17-C18-C20
23	a	409	CLA	C16-C17-C18-C19
31	E	101	LHG	C25-C26-C27-C28
26	a	411	SQD	O6-C44-C45-O47
31	e	101	LHG	O7-C5-C6-O8
34	c	520	LMG	O1-C7-C8-O7
31	d	407	LHG	C14-C15-C16-C17
31	d	408	LHG	C9-C10-C11-C12
37	C	517	DGD	C3B-C4B-C5B-C6B
23	A	404	CLA	C13-C15-C16-C17
23	c	506	CLA	C15-C16-C17-C18
23	c	509	CLA	C13-C15-C16-C17
31	D	408	LHG	C1-C2-C3-O3
35	b	620	LMT	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
34	C	520	LMG	O9-C10-O7-C8
23	d	402	CLA	C2-C1-O2A-CGA
23	b	601	CLA	C2-C3-C5-C6
35	M	103	LMT	C2B-C1B-O1B-C4'
23	B	616	CLA	C14-C13-C15-C16
23	b	609	CLA	C6-C7-C8-C9
31	D	409	LHG	C2-C3-O3-P
31	d	408	LHG	C2-C3-O3-P
34	J	101	LMG	C34-C35-C36-C37
23	D	405	CLA	C3-C5-C6-C7
25	d	404	BCR	C1-C6-C7-C8
23	c	501	CLA	C10-C11-C12-C13
34	Z	101	LMG	C19-C20-C21-C22
35	C	522	LMT	O1'-C1-C2-C3
31	b	630	LHG	C34-C35-C36-C37
37	C	517	DGD	C7A-C8A-C9A-CAA
37	c	516	DGD	C4B-C5B-C6B-C7B
34	c	520	LMG	C28-C29-C30-C31
26	D	413	SQD	C29-C30-C31-C32
35	e	102	LMT	C2B-C1B-O1B-C4'
23	b	614	CLA	C15-C16-C17-C18
23	c	511	CLA	O1A-CGA-O2A-C1
34	c	519	LMG	C21-C22-C23-C24
23	b	615	CLA	C15-C16-C17-C18
31	d	407	LHG	O6-C4-C5-C6
23	A	405	CLA	C11-C10-C8-C7
23	B	603	CLA	C6-C7-C8-C10
23	B	615	CLA	C12-C13-C15-C16
23	B	616	CLA	C12-C13-C15-C16
23	C	505	CLA	C12-C13-C15-C16
23	C	510	CLA	C6-C7-C8-C10
23	C	514	CLA	C11-C10-C8-C7
23	b	611	CLA	C6-C7-C8-C10
23	c	502	CLA	C12-C13-C15-C16
23	d	402	CLA	C11-C12-C13-C15
36	C	524	HTG	S1-C1'-C2'-C3'
23	C	513	CLA	C10-C11-C12-C13
23	b	607	CLA	C16-C17-C18-C20
34	B	622	LMG	C18-C19-C20-C21
26	D	413	SQD	C27-C28-C29-C30
34	m	101	LMG	C22-C23-C24-C25
36	c	521	HTG	O5-C1-S1-C1'

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Mol	Chain	Res	Type	Atoms
23	c	512	CLA	C13-C15-C16-C17
23	C	512	CLA	CBA-CGA-O2A-C1
31	d	407	LHG	C24-C23-O8-C6
34	B	622	LMG	C32-C33-C34-C35
31	d	407	LHG	C29-C30-C31-C32
23	B	607	CLA	C10-C11-C12-C13
23	B	617	CLA	CAD-CBD-CGD-O2D
23	b	612	CLA	CAD-CBD-CGD-O2D
23	b	613	CLA	CAD-CBD-CGD-O2D
23	b	614	CLA	CAD-CBD-CGD-O2D
23	b	616	CLA	CAD-CBD-CGD-O2D
23	c	501	CLA	CAD-CBD-CGD-O2D
24	A	406	PHO	CAD-CBD-CGD-O2D
24	a	407	PHO	CAD-CBD-CGD-O2D
35	M	103	LMT	O5B-C1B-O1B-C4'
26	L	102	SQD	O10-C23-O48-C46
23	b	605	CLA	O1D-CGD-O2D-CED
26	a	413	SQD	O5-C1-O6-C44
34	m	101	LMG	O6-C1-O1-C7
37	C	517	DGD	O6E-C1E-O5D-C6D
23	B	606	CLA	C13-C15-C16-C17
35	B	623	LMT	C6-C7-C8-C9
26	a	411	SQD	O6-C44-C45-C46
34	c	520	LMG	O1-C7-C8-C9
34	m	101	LMG	O1-C7-C8-C9
34	z	101	LMG	O1-C7-C8-C9
36	b	625	HTG	C4-C5-C6-O6
31	b	630	LHG	C27-C28-C29-C30
23	C	514	CLA	C3-C5-C6-C7
23	B	602	CLA	CAA-CBA-CGA-O2A
23	B	605	CLA	C4C-C3C-CAC-CBC
31	D	408	LHG	C17-C18-C19-C20
23	B	602	CLA	CHA-CBD-CGD-O1D
23	C	503	CLA	CHA-CBD-CGD-O1D
23	C	503	CLA	CHA-CBD-CGD-O2D
23	C	509	CLA	CHA-CBD-CGD-O1D
23	C	510	CLA	CHA-CBD-CGD-O1D
23	C	510	CLA	CHA-CBD-CGD-O2D
23	D	401	CLA	CHA-CBD-CGD-O1D
23	b	601	CLA	CHA-CBD-CGD-O1D
23	b	601	CLA	CHA-CBD-CGD-O2D
23	b	605	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
23	b	605	CLA	CHA-CBD-CGD-O2D
23	c	504	CLA	CHA-CBD-CGD-O1D
23	c	509	CLA	CHA-CBD-CGD-O1D
23	c	509	CLA	CHA-CBD-CGD-O2D
23	C	507	CLA	C3-C5-C6-C7
23	B	605	CLA	O1A-CGA-O2A-C1
23	C	512	CLA	O1A-CGA-O2A-C1
31	d	407	LHG	O10-C23-O8-C6
26	f	101	SQD	O47-C45-C46-O48
31	E	101	LHG	O7-C5-C6-O8
34	a	417	LMG	O7-C8-C9-O8
34	m	101	LMG	O1-C7-C8-O7
34	z	101	LMG	O1-C7-C8-O7
37	h	103	DGD	O1G-C1G-C2G-O2G
37	C	519	DGD	C2A-C1A-O1G-C1G
23	C	503	CLA	C10-C11-C12-C13
31	A	415	LHG	O1-C1-C2-O2
26	a	411	SQD	C35-C36-C37-C38
31	D	409	LHG	C15-C16-C17-C18
36	B	630	HTG	S1-C1'-C2'-C3'
35	E	102	LMT	C3-C4-C5-C6
34	B	622	LMG	C33-C34-C35-C36
23	B	602	CLA	C11-C10-C8-C9
23	C	513	CLA	C14-C13-C15-C16
23	b	611	CLA	C6-C7-C8-C9
23	C	508	CLA	O1D-CGD-O2D-CED
23	C	512	CLA	O1D-CGD-O2D-CED
26	A	411	SQD	C29-C30-C31-C32
26	B	621	SQD	C5-C6-S-O8
37	H	102	DGD	CCA-CDA-CEA-CFA
31	b	630	LHG	C13-C14-C15-C16
34	c	519	LMG	C31-C32-C33-C34
23	b	609	CLA	O1A-CGA-O2A-C1
37	C	519	DGD	O1A-C1A-O1G-C1G
34	m	101	LMG	C30-C31-C32-C33
27	B	628	GOL	O1-C1-C2-C3
34	J	101	LMG	C36-C37-C38-C39
31	D	409	LHG	C29-C30-C31-C32
23	C	507	CLA	C16-C17-C18-C20
23	b	609	CLA	CBA-CGA-O2A-C1
31	D	408	LHG	C3-O3-P-O6
31	d	408	LHG	C4-O6-P-O3

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Mol	Chain	Res	Type	Atoms
36	B	625	HTG	O5-C5-C6-O6
34	C	520	LMG	C40-C41-C42-C43
29	d	405	PL9	C45-C44-C46-C47
23	B	605	CLA	C2-C3-C5-C6
23	B	610	CLA	C2-C3-C5-C6
35	B	632	LMT	C4-C5-C6-C7
35	B	632	LMT	C5-C6-C7-C8
31	D	408	LHG	C3-O3-P-O4
31	L	101	LHG	C4-O6-P-O5
31	d	406	LHG	C3-O3-P-O5
31	d	407	LHG	C3-O3-P-O4
24	D	402	PHO	C16-C17-C18-C19
34	z	101	LMG	C10-C11-C12-C13
23	B	605	CLA	C13-C15-C16-C17
23	b	602	CLA	C10-C11-C12-C13
34	C	501	LMG	C29-C28-O8-C9
29	D	407	PL9	C29-C31-C32-C33
31	L	101	LHG	C13-C14-C15-C16
35	M	103	LMT	C6-C7-C8-C9
35	M	103	LMT	C9-C10-C11-C12
23	B	609	CLA	C13-C15-C16-C17
23	B	608	CLA	C3-C5-C6-C7
26	a	411	SQD	C26-C27-C28-C29
31	D	408	LHG	C26-C27-C28-C29
34	C	520	LMG	C32-C33-C34-C35
23	B	602	CLA	CAD-CBD-CGD-O1D
23	B	606	CLA	CAD-CBD-CGD-O1D
23	C	503	CLA	CAD-CBD-CGD-O1D
23	b	601	CLA	CAD-CBD-CGD-O1D
23	b	605	CLA	CAD-CBD-CGD-O1D
23	c	502	CLA	CAD-CBD-CGD-O1D
23	c	504	CLA	CAD-CBD-CGD-O1D
23	c	506	CLA	CAD-CBD-CGD-O1D
26	A	411	SQD	C5-C6-S-O9
26	B	621	SQD	C5-C6-S-O9
23	a	406	CLA	C10-C11-C12-C13
35	M	103	LMT	C1-C2-C3-C4
23	c	510	CLA	C16-C17-C18-C20
23	B	605	CLA	C11-C12-C13-C15
23	B	606	CLA	C6-C7-C8-C10
23	B	611	CLA	C12-C13-C15-C16
23	B	617	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
23	C	506	CLA	C12-C13-C15-C16
23	C	513	CLA	C12-C13-C15-C16
23	a	409	CLA	C11-C10-C8-C7
23	b	607	CLA	C12-C13-C15-C16
23	b	616	CLA	C6-C7-C8-C10
23	b	616	CLA	C11-C12-C13-C15
23	c	501	CLA	C11-C12-C13-C15
23	c	504	CLA	C11-C10-C8-C7
23	c	510	CLA	C6-C7-C8-C10
31	E	101	LHG	C23-C24-C25-C26
31	b	630	LHG	O6-C4-C5-O7
36	c	521	HTG	C2-C1-S1-C1'
37	h	103	DGD	C9A-CAA-CBA-CCA
34	C	501	LMG	C13-C14-C15-C16
23	B	610	CLA	O1A-CGA-O2A-C1
23	b	613	CLA	O1A-CGA-O2A-C1
26	B	621	SQD	C33-C34-C35-C36
35	B	634	LMT	C4-C5-C6-C7
35	e	102	LMT	O5B-C1B-O1B-C4'
31	b	630	LHG	C16-C17-C18-C19
31	d	407	LHG	C9-C10-C11-C12
23	C	512	CLA	C3-C5-C6-C7
26	f	101	SQD	C44-C45-C46-O48
31	b	630	LHG	C25-C26-C27-C28
34	C	501	LMG	O10-C28-O8-C9
26	B	621	SQD	O47-C45-C46-O48
26	L	102	SQD	O47-C45-C46-O48
26	a	411	SQD	C16-C17-C18-C19
31	D	409	LHG	C14-C15-C16-C17
31	d	407	LHG	C16-C17-C18-C19
34	C	520	LMG	C35-C36-C37-C38
37	C	518	DGD	C8A-C9A-CAA-CBA
37	c	517	DGD	C2G-C3G-O3G-C1D
23	D	401	CLA	C16-C17-C18-C19
34	C	520	LMG	C11-C12-C13-C14
23	B	617	CLA	C14-C13-C15-C16
23	b	615	CLA	C14-C13-C15-C16
23	c	507	CLA	C11-C12-C13-C14
23	c	508	CLA	C11-C10-C8-C9
23	d	402	CLA	C11-C12-C13-C14
37	h	103	DGD	CBB-CCB-CDB-CEB
23	C	503	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
34	C	520	LMG	C34-C35-C36-C37
34	B	622	LMG	C10-C11-C12-C13
31	d	406	LHG	O10-C23-O8-C6
27	B	628	GOL	O1-C1-C2-O2
31	D	408	LHG	C11-C10-C9-C8
35	B	623	LMT	C5-C6-C7-C8
37	c	517	DGD	C7B-C8B-C9B-CAB
24	a	408	PHO	C8-C10-C11-C12
31	d	406	LHG	C24-C25-C26-C27
34	C	501	LMG	C17-C18-C19-C20
34	B	622	LMG	C13-C14-C15-C16
35	D	403	LMT	C5-C6-C7-C8
23	C	507	CLA	C5-C6-C7-C8
31	D	408	LHG	C11-C12-C13-C14
34	a	417	LMG	C20-C21-C22-C23
35	E	102	LMT	O1'-C1-C2-C3
23	b	616	CLA	O1A-CGA-O2A-C1
35	D	403	LMT	O5B-C5B-C6B-O6B
31	d	406	LHG	C24-C23-O8-C6
26	L	102	SQD	C31-C32-C33-C34
31	d	406	LHG	C34-C35-C36-C37
34	m	101	LMG	C37-C38-C39-C40
26	B	621	SQD	C46-C45-O47-C7
23	b	602	CLA	C2A-CAA-CBA-CGA
23	c	501	CLA	C2A-CAA-CBA-CGA
23	B	614	CLA	C2-C1-O2A-CGA
23	C	511	CLA	C2-C1-O2A-CGA
23	C	514	CLA	C2-C1-O2A-CGA
23	b	610	CLA	C2-C1-O2A-CGA
26	L	102	SQD	C26-C27-C28-C29
31	d	408	LHG	C29-C30-C31-C32
26	L	102	SQD	C11-C10-C9-C8
26	a	413	SQD	C18-C19-C20-C21
34	a	417	LMG	C29-C30-C31-C32
23	b	616	CLA	CBA-CGA-O2A-C1
31	d	407	LHG	O6-C4-C5-O7
25	B	618	BCR	C5-C6-C7-C8
25	c	514	BCR	C23-C24-C25-C26
25	c	514	BCR	C23-C24-C25-C30
25	d	404	BCR	C5-C6-C7-C8
29	d	405	PL9	C43-C44-C46-C47
34	c	519	LMG	O10-C28-O8-C9

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Mol	Chain	Res	Type	Atoms
26	a	413	SQD	C24-C23-O48-C46
23	c	512	CLA	C2A-CAA-CBA-CGA
26	a	413	SQD	O10-C23-O48-C46
31	E	101	LHG	C4-O6-P-O3
26	B	621	SQD	C9-C10-C11-C12
34	m	101	LMG	C21-C22-C23-C24
26	f	101	SQD	O6-C44-C45-C46
35	M	103	LMT	C11-C10-C9-C8
23	C	510	CLA	C11-C12-C13-C15
23	b	601	CLA	C11-C10-C8-C7
23	c	506	CLA	C11-C12-C13-C15
23	c	506	CLA	C12-C13-C15-C16
23	c	508	CLA	C11-C10-C8-C7
26	A	411	SQD	C7-C8-C9-C10
23	A	405	CLA	C11-C10-C8-C9
23	A	405	CLA	C14-C13-C15-C16
23	B	616	CLA	C11-C12-C13-C14
23	a	409	CLA	C11-C10-C8-C9
23	b	607	CLA	C14-C13-C15-C16
23	c	501	CLA	C11-C12-C13-C14
25	k	101	BCR	C9-C10-C11-C12
23	a	404	CLA	C16-C17-C18-C19
34	B	622	LMG	O6-C5-C6-O5
37	c	517	DGD	CCB-CDB-CEB-CFB
34	z	101	LMG	C4-C5-C6-O5
31	E	101	LHG	C15-C16-C17-C18
35	C	522	LMT	C4-C5-C6-C7
23	B	610	CLA	CBA-CGA-O2A-C1
23	A	407	CLA	C4-C3-C5-C6
23	B	610	CLA	C4-C3-C5-C6
31	d	406	LHG	C7-C8-C9-C10
31	D	408	LHG	C34-C35-C36-C37
23	B	604	CLA	CBA-CGA-O2A-C1
23	b	613	CLA	CBA-CGA-O2A-C1
34	z	101	LMG	C12-C13-C14-C15
38	e	103	HEM	CAD-CBD-CGD-O1D
34	z	101	LMG	C18-C19-C20-C21
31	d	407	LHG	C31-C32-C33-C34
34	c	519	LMG	C29-C28-O8-C9
23	C	507	CLA	C16-C17-C18-C19
23	C	510	CLA	CBD-CGD-O2D-CED
23	c	513	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
35	B	633	LMT	C4-C5-C6-C7
23	D	401	CLA	C2C-C3C-CAC-CBC
23	C	509	CLA	C5-C6-C7-C8
23	B	609	CLA	C2-C1-O2A-CGA
23	b	608	CLA	C2-C1-O2A-CGA
23	b	609	CLA	C3A-C2A-CAA-CBA
23	d	403	CLA	C3A-C2A-CAA-CBA
23	C	505	CLA	C8-C10-C11-C12
34	a	417	LMG	C36-C37-C38-C39
23	B	614	CLA	C13-C15-C16-C17
31	L	101	LHG	C28-C29-C30-C31
23	B	611	CLA	C11-C12-C13-C14
23	B	611	CLA	C14-C13-C15-C16
23	B	612	CLA	C11-C12-C13-C14
23	C	503	CLA	C14-C13-C15-C16
23	C	514	CLA	C14-C13-C15-C16
23	D	404	CLA	C11-C10-C8-C9
23	b	607	CLA	C11-C12-C13-C14
23	b	614	CLA	C6-C7-C8-C9
23	c	509	CLA	C11-C12-C13-C14
23	b	601	CLA	C16-C17-C18-C19
24	D	402	PHO	C16-C17-C18-C20
31	d	408	LHG	C34-C35-C36-C37
31	b	630	LHG	C18-C19-C20-C21
24	A	406	PHO	O2A-C1-C2-C3
29	a	415	PL9	C2-C3-C7-C8
23	B	604	CLA	O1A-CGA-O2A-C1
34	j	101	LMG	C36-C37-C38-C39
35	b	620	LMT	C2-C3-C4-C5
26	B	621	SQD	C11-C10-C9-C8
26	L	102	SQD	C16-C17-C18-C19
34	C	521	LMG	C18-C19-C20-C21
36	B	624	HTG	C3'-C4'-C5'-C6'
23	B	602	CLA	C13-C15-C16-C17
29	a	415	PL9	C20-C19-C21-C22
23	b	601	CLA	CAA-CBA-CGA-O1A
23	c	511	CLA	C1A-C2A-CAA-CBA
37	c	516	DGD	CDB-CEB-CFB-CGB
23	C	510	CLA	C11-C10-C8-C7
23	D	405	CLA	C12-C13-C15-C16
23	a	405	CLA	C11-C10-C8-C7
23	b	606	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
23	b	610	CLA	C11-C12-C13-C15
24	A	406	PHO	C2-C3-C5-C6
23	C	509	CLA	C13-C15-C16-C17
34	Z	101	LMG	C29-C28-O8-C9
38	E	103	HEM	CAD-CBD-CGD-O1D
40	V	202	HEC	CAD-CBD-CGD-O2D
37	H	102	DGD	C9B-CAB-CBB-CCB
37	c	516	DGD	CCB-CDB-CEB-CFB
35	D	403	LMT	C4'-C5'-C6'-O6'
23	B	603	CLA	C2A-CAA-CBA-CGA
23	A	407	CLA	C8-C10-C11-C12
23	C	504	CLA	C15-C16-C17-C18
23	c	507	CLA	C5-C6-C7-C8
31	L	101	LHG	C11-C10-C9-C8
34	z	101	LMG	C28-C29-C30-C31
37	h	103	DGD	CDA-CEA-CFA-CGA
23	b	611	CLA	C13-C15-C16-C17
40	V	202	HEC	CAD-CBD-CGD-O1D
23	c	509	CLA	C10-C11-C12-C13
35	b	628	LMT	C6-C7-C8-C9
38	e	103	HEM	CAD-CBD-CGD-O2D
40	v	201	HEC	CAD-CBD-CGD-O2D
35	D	403	LMT	C2B-C1B-O1B-C4'
31	d	407	LHG	O7-C5-C6-O8
31	d	408	LHG	O7-C5-C6-O8
34	C	521	LMG	O7-C8-C9-O8
31	A	415	LHG	C29-C30-C31-C32
25	y	101	BCR	C9-C10-C11-C12
23	C	502	CLA	O1D-CGD-O2D-CED
23	c	503	CLA	C8-C10-C11-C12
34	a	417	LMG	C34-C35-C36-C37
29	A	413	PL9	C30-C29-C31-C32
23	b	613	CLA	C2-C1-O2A-CGA
23	b	614	CLA	C2-C1-O2A-CGA
29	a	415	PL9	C18-C19-C21-C22
40	v	201	HEC	CAD-CBD-CGD-O1D
26	A	409	SQD	C14-C15-C16-C17
23	C	503	CLA	C16-C17-C18-C20
23	c	506	CLA	C11-C10-C8-C9
31	D	409	LHG	C10-C11-C12-C13
29	A	413	PL9	C2-C3-C7-C8
38	E	103	HEM	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
37	h	103	DGD	O1B-C1B-C2B-C3B
34	C	521	LMG	C10-C11-C12-C13
31	e	101	LHG	C14-C15-C16-C17
26	D	413	SQD	O10-C23-O48-C46
25	A	408	BCR	C1-C6-C7-C8
25	C	515	BCR	C1-C6-C7-C8
25	C	516	BCR	C1-C6-C7-C8
25	b	618	BCR	C23-C24-C25-C30
31	L	101	LHG	C33-C34-C35-C36
35	M	101	LMT	C9-C10-C11-C12
31	e	101	LHG	C25-C26-C27-C28
26	B	621	SQD	C45-C44-O6-C1
34	J	101	LMG	C8-C7-O1-C1
37	C	518	DGD	C2G-C3G-O3G-C1D
37	c	517	DGD	C8A-C9A-CAA-CBA
31	d	408	LHG	O6-C4-C5-O7
36	c	521	HTG	C4-C5-C6-O6
38	e	103	HEM	CAA-CBA-CGA-O2A
35	m	103	LMT	O5'-C5'-C6'-O6'
26	D	413	SQD	C24-C23-O48-C46
34	j	101	LMG	C28-C29-C30-C31
34	C	501	LMG	C18-C19-C20-C21
35	B	623	LMT	O5B-C1B-O1B-C4'
26	B	621	SQD	C34-C35-C36-C37
26	a	411	SQD	C19-C20-C21-C22
23	c	513	CLA	C4-C3-C5-C6
29	a	415	PL9	C9-C11-C12-C13
29	A	413	PL9	C28-C29-C31-C32
23	b	613	CLA	CAA-CBA-CGA-O2A
26	L	102	SQD	O48-C23-C24-C25
31	A	415	LHG	O8-C23-C24-C25
34	Z	101	LMG	C11-C12-C13-C14
36	D	412	HTG	C1'-C2'-C3'-C4'
37	c	518	DGD	CCB-CDB-CEB-CFB
31	d	407	LHG	C11-C10-C9-C8
34	Z	101	LMG	C18-C19-C20-C21
37	C	519	DGD	C6B-C7B-C8B-C9B
34	Z	101	LMG	O7-C10-C11-C12
29	a	415	PL9	C45-C44-C46-C47
24	D	402	PHO	C5-C6-C7-C8
37	C	519	DGD	C1B-C2B-C3B-C4B
26	f	101	SQD	O47-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
31	b	630	LHG	O7-C7-C8-C9
23	B	605	CLA	C11-C12-C13-C14
23	C	506	CLA	C14-C13-C15-C16
23	C	510	CLA	C11-C10-C8-C9
23	C	510	CLA	C11-C12-C13-C14
23	D	405	CLA	C14-C13-C15-C16
23	b	605	CLA	C11-C10-C8-C9
23	b	616	CLA	C11-C12-C13-C14
23	c	504	CLA	C11-C10-C8-C9
23	c	506	CLA	C11-C12-C13-C14
23	c	509	CLA	C6-C7-C8-C9
23	c	510	CLA	C11-C12-C13-C14
23	B	602	CLA	C3A-C2A-CAA-CBA
23	b	608	CLA	C3A-C2A-CAA-CBA
31	d	406	LHG	C11-C10-C9-C8
26	B	621	SQD	O48-C23-C24-C25
23	A	404	CLA	CAD-CBD-CGD-O2D
23	B	605	CLA	CAD-CBD-CGD-O2D
23	C	506	CLA	CAD-CBD-CGD-O2D
23	C	509	CLA	CAD-CBD-CGD-O2D
23	C	511	CLA	CAD-CBD-CGD-O2D
23	C	513	CLA	CAD-CBD-CGD-O2D
23	b	603	CLA	CAD-CBD-CGD-O2D
23	b	604	CLA	CAD-CBD-CGD-O2D
23	b	610	CLA	CAD-CBD-CGD-O2D
23	c	510	CLA	CAD-CBD-CGD-O2D
31	D	409	LHG	C9-C10-C11-C12
37	c	516	DGD	CCA-CDA-CEA-CFA
23	b	601	CLA	C13-C15-C16-C17
37	C	517	DGD	CCB-CDB-CEB-CFB
23	B	602	CLA	C2-C1-O2A-CGA
35	e	102	LMT	C5-C6-C7-C8
23	b	616	CLA	C4-C3-C5-C6
23	b	616	CLA	C2-C3-C5-C6
23	B	614	CLA	CAA-CBA-CGA-O2A
31	L	101	LHG	O7-C7-C8-C9
37	h	103	DGD	C8A-C9A-CAA-CBA
25	C	527	BCR	C7-C8-C9-C10
24	D	402	PHO	C2C-C3C-CAC-CBC
24	a	408	PHO	C2C-C3C-CAC-CBC
38	E	103	HEM	CAA-CBA-CGA-O1A
23	B	604	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
23	C	511	CLA	CAA-CBA-CGA-O2A
34	C	520	LMG	O8-C28-C29-C30
34	c	519	LMG	O7-C10-C11-C12
37	H	102	DGD	O1B-C1B-C2B-C3B
34	B	622	LMG	C22-C23-C24-C25
35	B	633	LMT	C5-C6-C7-C8
36	B	625	HTG	C4'-C5'-C6'-C7'
23	b	613	CLA	O2A-C1-C2-C3
24	a	407	PHO	O2A-C1-C2-C3
23	a	409	CLA	C15-C16-C17-C18
31	D	409	LHG	C28-C29-C30-C31
23	A	405	CLA	C3-C5-C6-C7
34	j	101	LMG	C19-C20-C21-C22
23	B	602	CLA	CHA-CBD-CGD-O2D
23	B	606	CLA	CHA-CBD-CGD-O1D
23	B	606	CLA	CHA-CBD-CGD-O2D
23	B	615	CLA	CHA-CBD-CGD-O1D
23	B	615	CLA	CHA-CBD-CGD-O2D
23	C	508	CLA	CHA-CBD-CGD-O1D
23	C	508	CLA	CHA-CBD-CGD-O2D
23	C	509	CLA	CHA-CBD-CGD-O2D
23	a	405	CLA	CHA-CBD-CGD-O2D
23	b	606	CLA	CHA-CBD-CGD-O1D
23	b	606	CLA	CHA-CBD-CGD-O2D
23	b	607	CLA	CHA-CBD-CGD-O1D
23	b	607	CLA	CHA-CBD-CGD-O2D
23	c	503	CLA	CHA-CBD-CGD-O2D
23	c	504	CLA	CHA-CBD-CGD-O2D
23	c	507	CLA	CHA-CBD-CGD-O1D
23	c	507	CLA	CHA-CBD-CGD-O2D
38	E	103	HEM	CAA-CBA-CGA-O2A
24	A	406	PHO	C4-C3-C5-C6
29	A	413	PL9	C45-C44-C46-C47
29	a	415	PL9	C43-C44-C46-C47
23	B	613	CLA	CAA-CBA-CGA-O2A
34	J	101	LMG	O7-C10-C11-C12
23	A	405	CLA	C2C-C3C-CAC-CBC
34	z	101	LMG	C22-C23-C24-C25
37	c	518	DGD	CDB-CEB-CFB-CGB
35	E	102	LMT	C4B-C5B-C6B-O6B
24	A	406	PHO	CHA-CBD-CGD-O1D
24	D	402	PHO	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
24	a	407	PHO	CHA-CBD-CGD-O1D
27	A	410	GOL	O2-C2-C3-O3
29	D	407	PL9	C45-C44-C46-C47
35	D	403	LMT	O5B-C1B-O1B-C4'
23	B	616	CLA	C13-C15-C16-C17
23	C	507	CLA	C12-C13-C15-C16
23	C	513	CLA	C6-C7-C8-C10
23	b	614	CLA	C6-C7-C8-C10
23	b	602	CLA	CAA-CBA-CGA-O2A
23	c	510	CLA	CAA-CBA-CGA-O2A
37	C	518	DGD	O2G-C1B-C2B-C3B
23	C	507	CLA	C14-C13-C15-C16
38	e	103	HEM	CAA-CBA-CGA-O1A
26	A	409	SQD	C30-C31-C32-C33
23	b	612	CLA	CAA-CBA-CGA-O2A
34	z	101	LMG	C13-C14-C15-C16
34	c	519	LMG	O9-C10-C11-C12
23	a	404	CLA	C16-C17-C18-C20
23	c	508	CLA	C4-C3-C5-C6
23	c	513	CLA	C2-C3-C5-C6
31	e	101	LHG	O8-C23-C24-C25
26	f	101	SQD	O49-C7-C8-C9
25	y	101	BCR	C21-C22-C23-C24
23	C	507	CLA	C1A-C2A-CAA-CBA
35	B	632	LMT	C11-C10-C9-C8
31	b	630	LHG	O9-C7-C8-C9
34	C	520	LMG	O10-C28-C29-C30
23	c	511	CLA	C2-C1-O2A-CGA
23	B	614	CLA	CAA-CBA-CGA-O1A
26	L	102	SQD	O10-C23-C24-C25
31	A	415	LHG	O10-C23-C24-C25
26	a	411	SQD	C11-C10-C9-C8
36	c	522	HTG	C4-C5-C6-O6
34	m	101	LMG	O7-C10-C11-C12
31	b	630	LHG	C19-C20-C21-C22
37	H	102	DGD	C7B-C8B-C9B-CAB
23	A	404	CLA	C2A-CAA-CBA-CGA
23	D	404	CLA	C2C-C3C-CAC-CBC
26	B	621	SQD	C35-C36-C37-C38
23	c	513	CLA	C16-C17-C18-C20
26	B	621	SQD	O10-C23-C24-C25
23	c	512	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
31	b	630	LHG	C11-C12-C13-C14
37	C	517	DGD	CDB-CEB-CFB-CGB
31	E	101	LHG	C4-O6-P-O5
31	d	408	LHG	C4-O6-P-O5
23	b	613	CLA	CAA-CBA-CGA-O1A
35	M	103	LMT	C4-C5-C6-C7
37	C	519	DGD	C9B-CAB-CBB-CCB
25	D	406	BCR	C1-C6-C7-C8
25	b	618	BCR	C23-C24-C25-C26
23	D	401	CLA	C4C-C3C-CAC-CBC
34	z	101	LMG	C15-C16-C17-C18
23	C	511	CLA	CAA-CBA-CGA-O1A
23	b	612	CLA	CAA-CBA-CGA-O1A
34	Z	101	LMG	O9-C10-C11-C12
31	d	408	LHG	C28-C29-C30-C31
34	a	417	LMG	C37-C38-C39-C40
36	b	621	HTG	C2'-C3'-C4'-C5'
23	B	614	CLA	C15-C16-C17-C18
23	c	510	CLA	CAA-CBA-CGA-O1A
31	L	101	LHG	O9-C7-C8-C9
31	e	101	LHG	O10-C23-C24-C25
23	c	503	CLA	C15-C16-C17-C18
23	B	608	CLA	CAD-CBD-CGD-O1D
23	B	610	CLA	CAD-CBD-CGD-O1D
23	C	505	CLA	CAD-CBD-CGD-O1D
23	a	405	CLA	CAD-CBD-CGD-O1D
23	b	606	CLA	CAD-CBD-CGD-O1D
23	b	607	CLA	CAD-CBD-CGD-O1D
23	b	609	CLA	CAD-CBD-CGD-O1D
23	b	611	CLA	CAD-CBD-CGD-O1D
23	c	505	CLA	CAD-CBD-CGD-O1D
34	a	417	LMG	C21-C22-C23-C24
37	c	516	DGD	O2G-C1B-C2B-C3B
23	a	405	CLA	C11-C10-C8-C9
23	a	406	CLA	C11-C10-C8-C9
34	J	101	LMG	O9-C10-C11-C12
23	c	505	CLA	CAA-CBA-CGA-O2A
26	A	409	SQD	O47-C7-C8-C9
23	D	405	CLA	C8-C10-C11-C12
26	f	101	SQD	C24-C25-C26-C27
36	b	625	HTG	C1'-C2'-C3'-C4'
23	c	505	CLA	CAA-CBA-CGA-O1A

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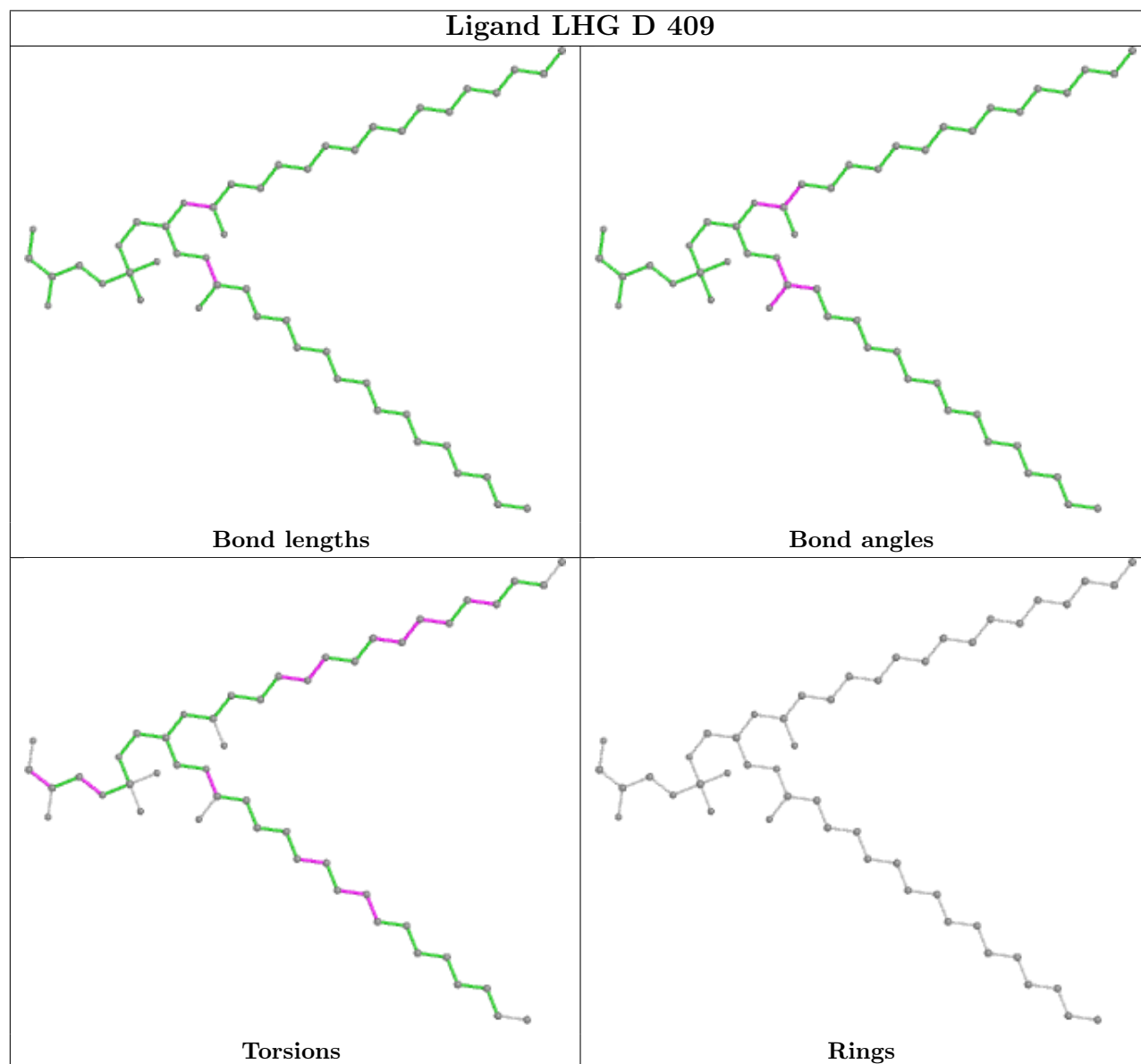
Mol	Chain	Res	Type	Atoms
34	C	520	LMG	C31-C32-C33-C34
23	B	606	CLA	C4-C3-C5-C6
23	c	506	CLA	C4-C3-C5-C6
23	A	407	CLA	C2-C3-C5-C6
23	B	617	CLA	C11-C12-C13-C15
23	a	406	CLA	C11-C10-C8-C7
23	b	614	CLA	C12-C13-C15-C16
31	E	101	LHG	O7-C7-C8-C9
26	A	409	SQD	C13-C14-C15-C16
23	b	604	CLA	C13-C15-C16-C17
23	b	612	CLA	C8-C10-C11-C12
25	Y	101	BCR	C21-C22-C23-C24
23	B	613	CLA	CAA-CBA-CGA-O1A
34	m	101	LMG	O9-C10-C11-C12
37	C	518	DGD	O1B-C1B-C2B-C3B
26	a	411	SQD	C10-C11-C12-C13
35	B	632	LMT	C2-C1-O1'-C1'
35	b	628	LMT	C2-C1-O1'-C1'
23	C	506	CLA	CAA-CBA-CGA-O2A
31	d	408	LHG	O8-C23-C24-C25
29	A	413	PL9	C19-C21-C22-C23
37	C	518	DGD	CBB-CCB-CDB-CEB
31	L	101	LHG	C16-C17-C18-C19
31	d	408	LHG	C25-C26-C27-C28
23	B	613	CLA	C13-C15-C16-C17
23	B	608	CLA	C2A-CAA-CBA-CGA
36	b	622	HTG	C4'-C5'-C6'-C7'
26	A	409	SQD	O49-C7-C8-C9
37	c	516	DGD	O1B-C1B-C2B-C3B
26	a	411	SQD	O47-C7-C8-C9
34	C	501	LMG	O8-C28-C29-C30

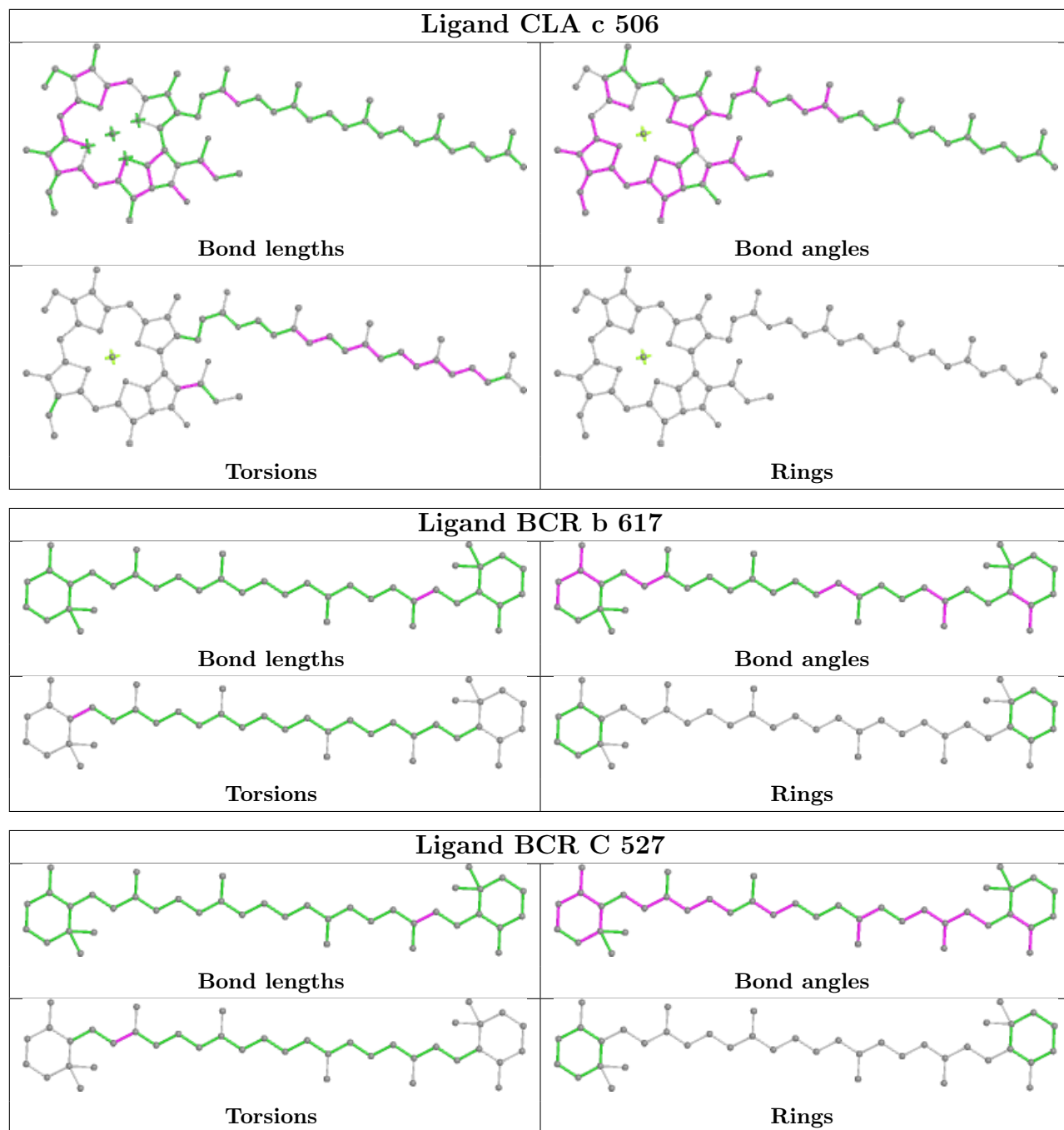
There are no ring outliers.

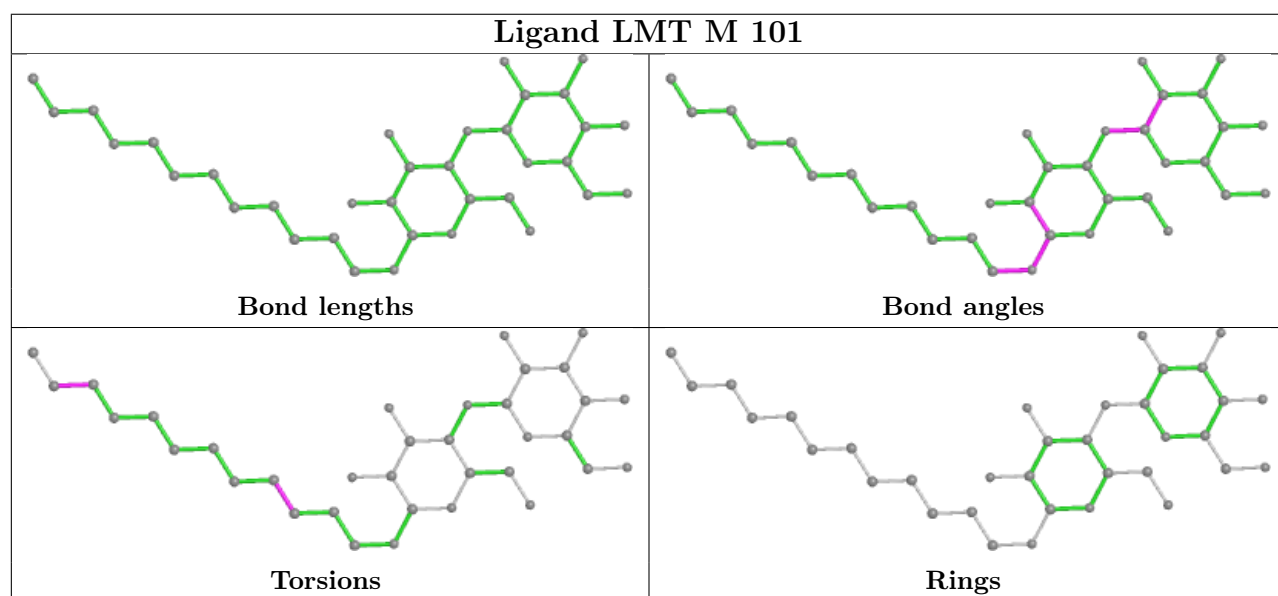
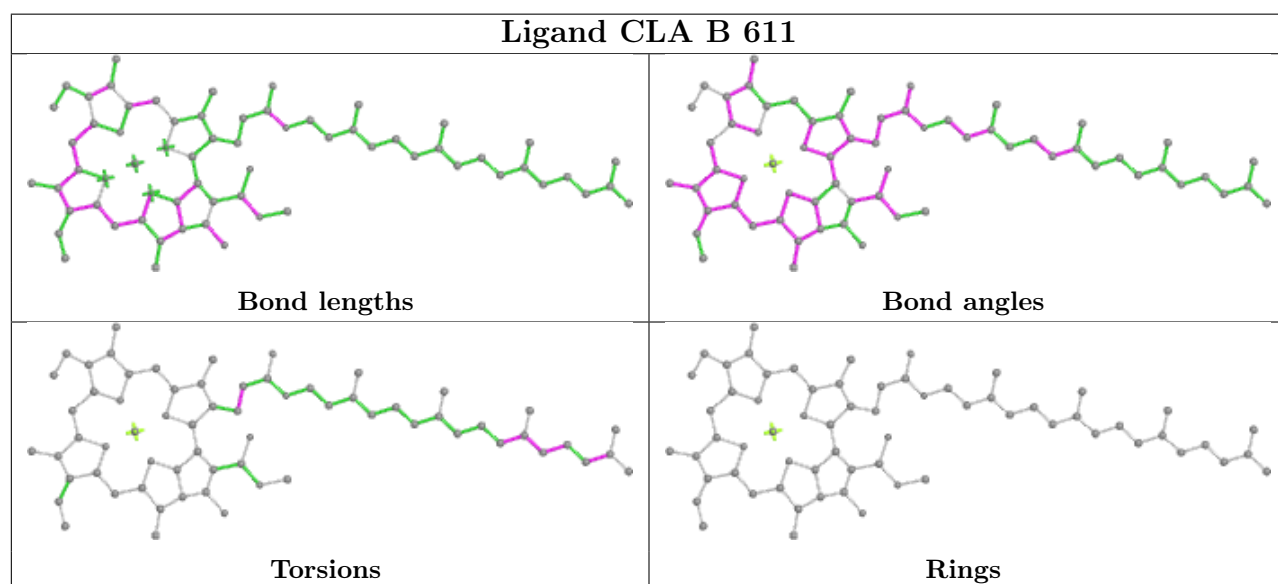
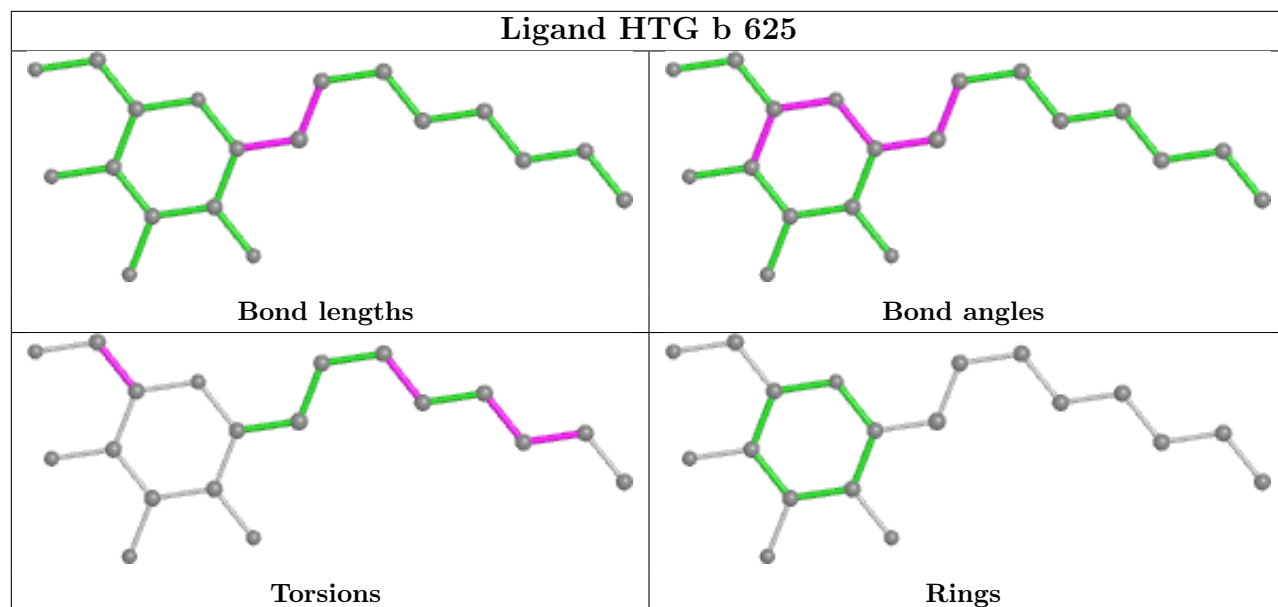
No monomer is involved in short contacts.

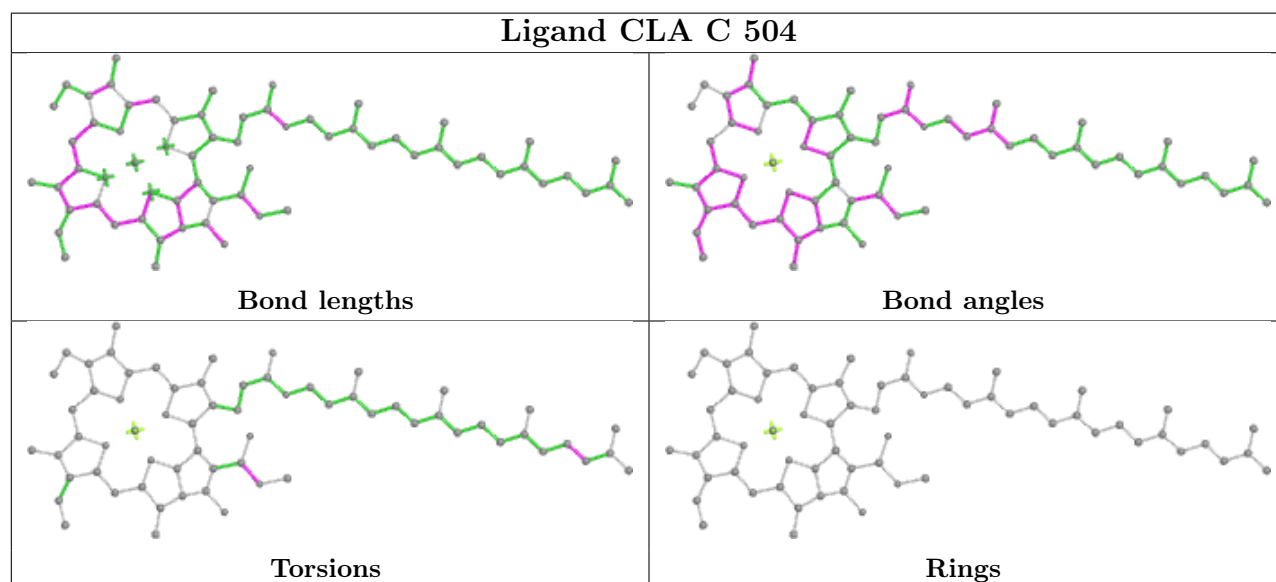
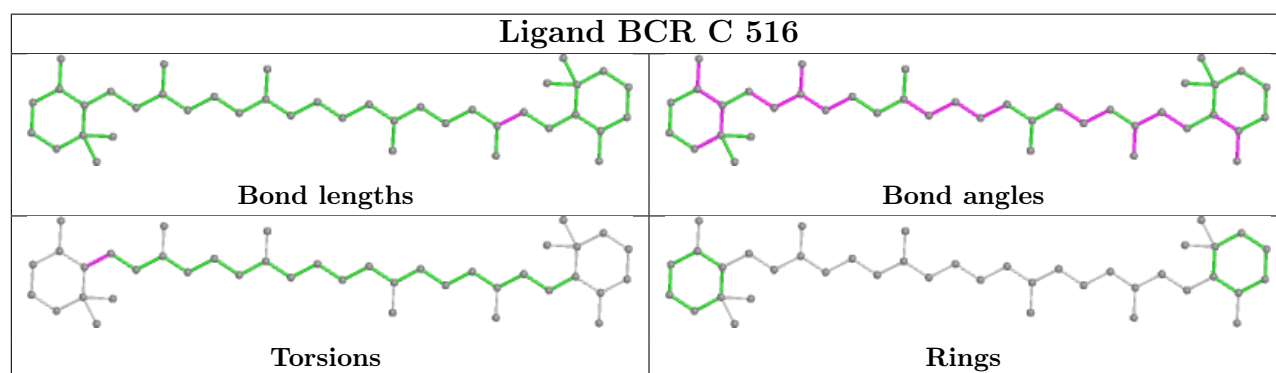
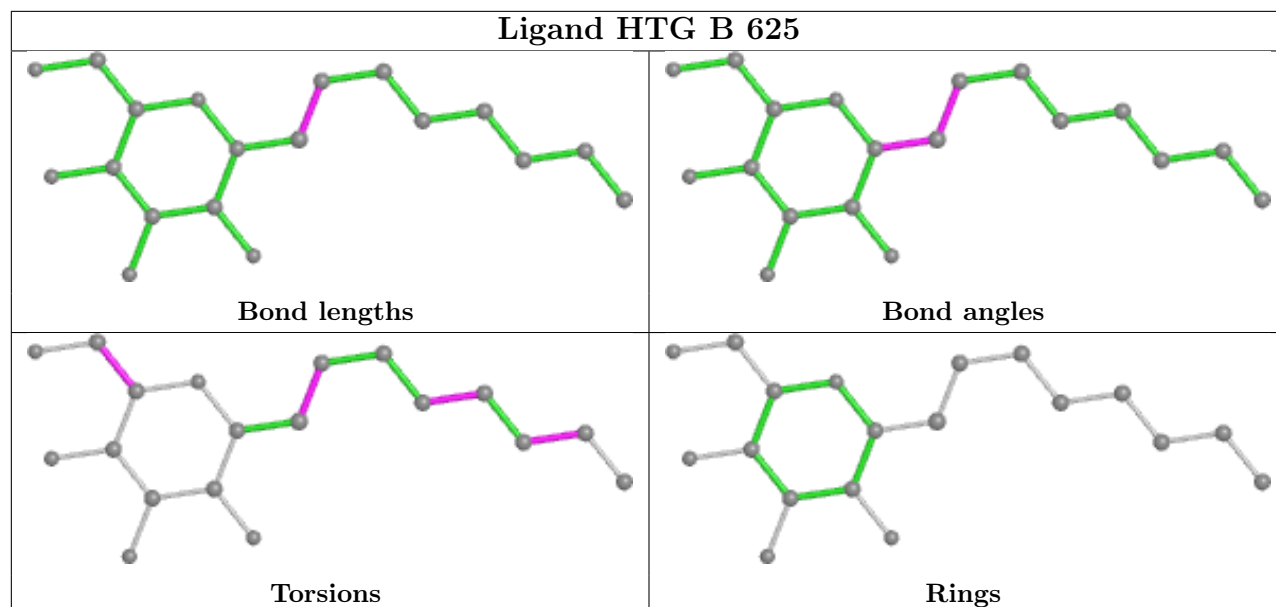
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

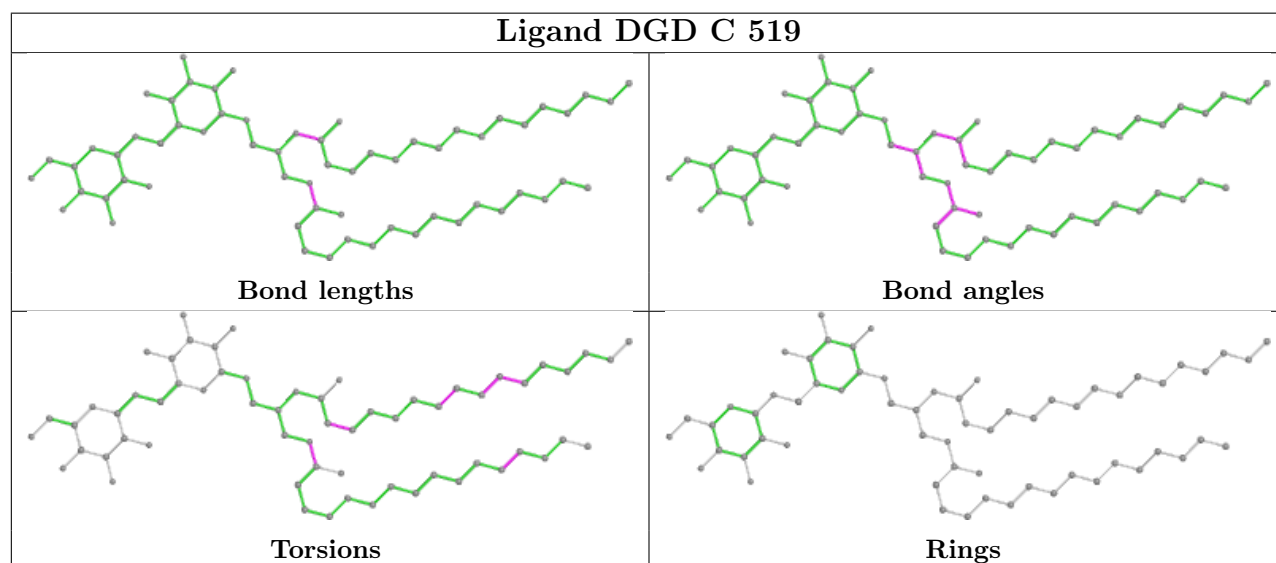
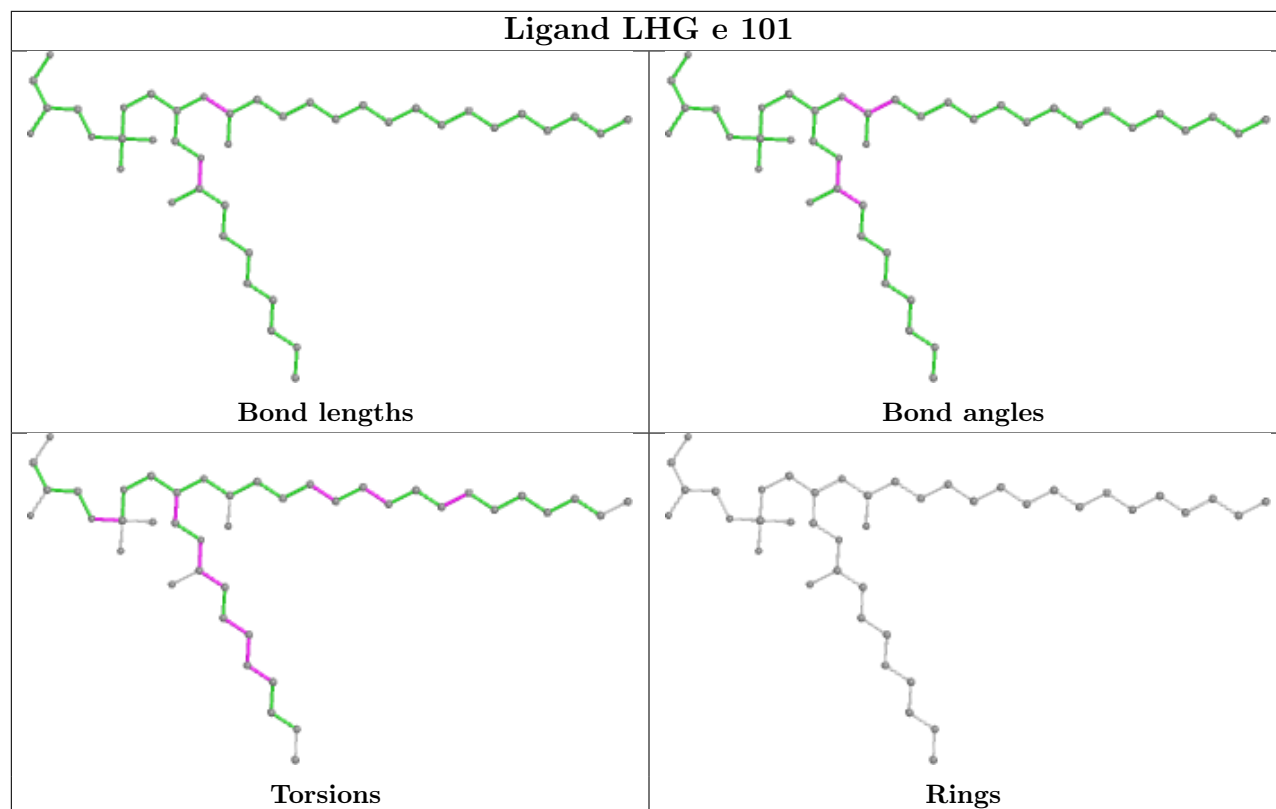
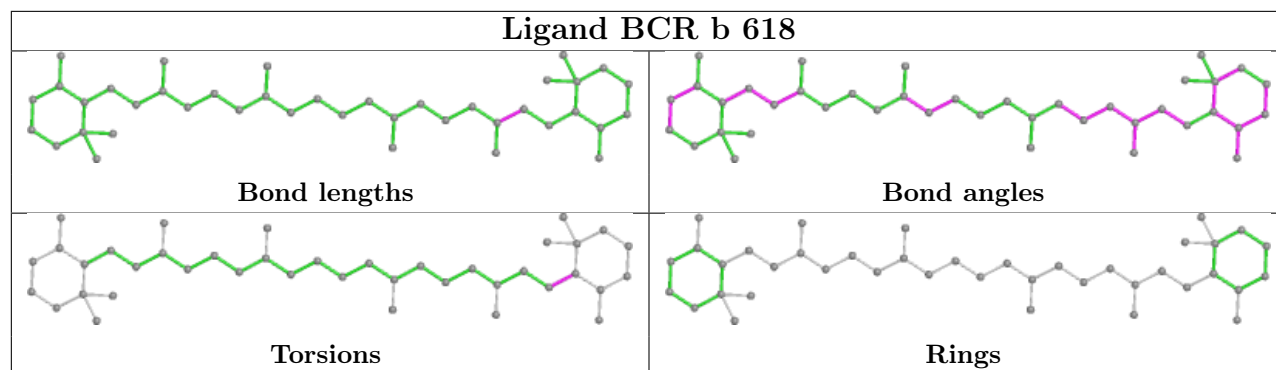
average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

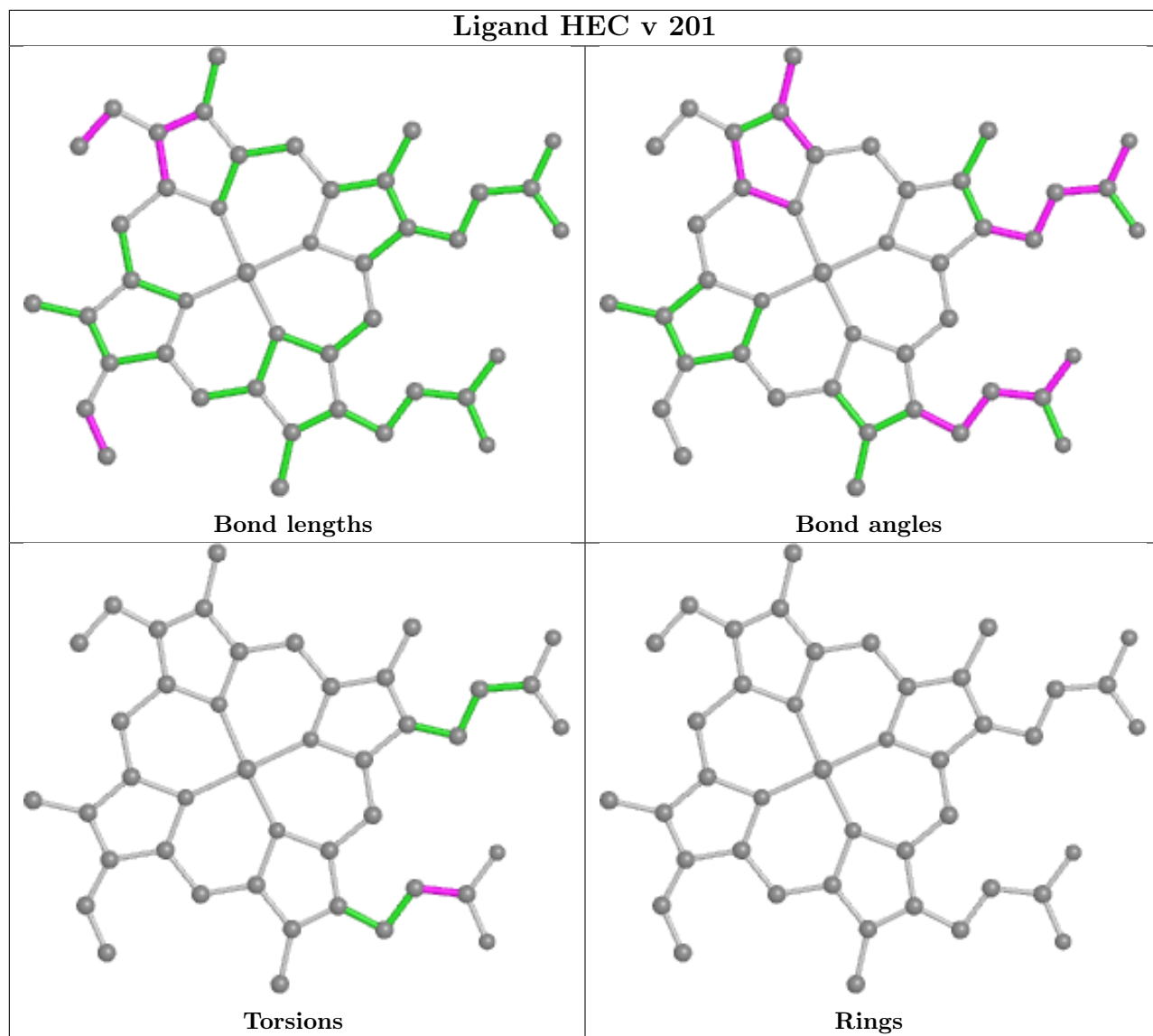
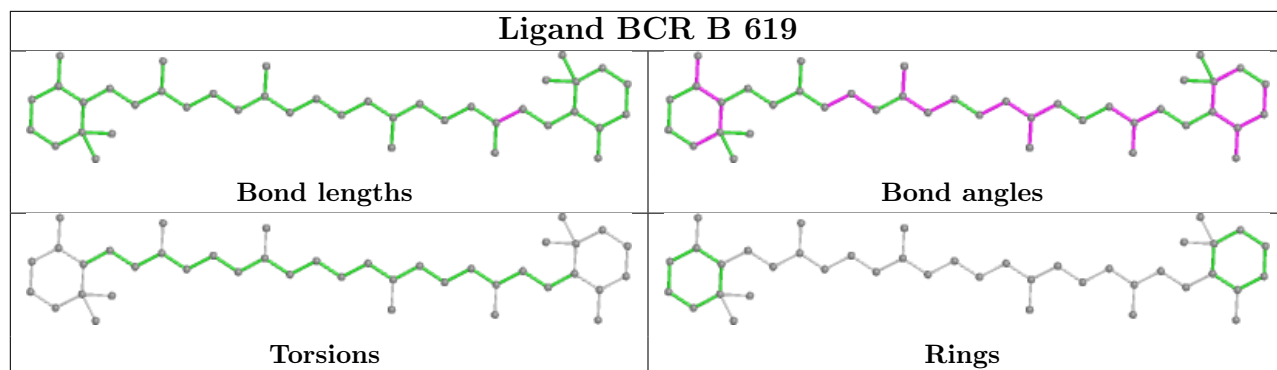


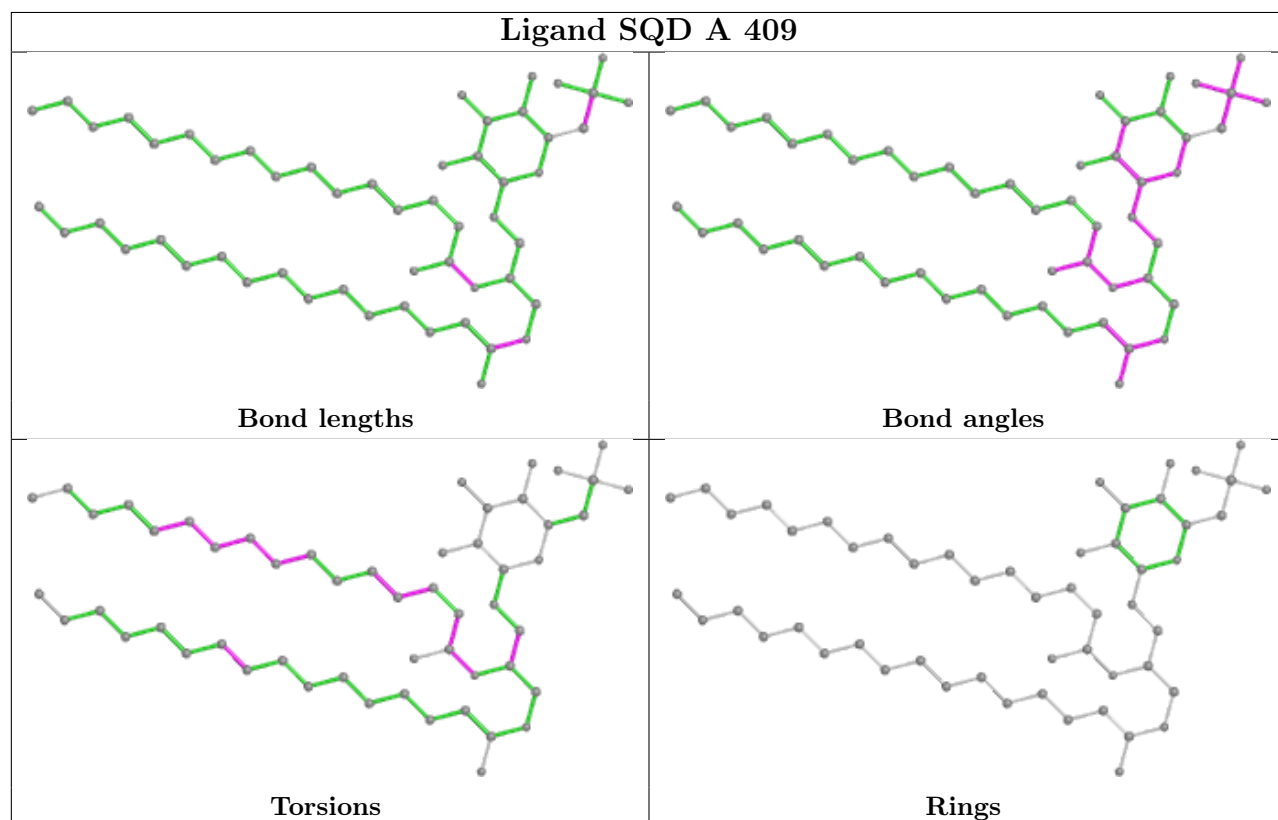
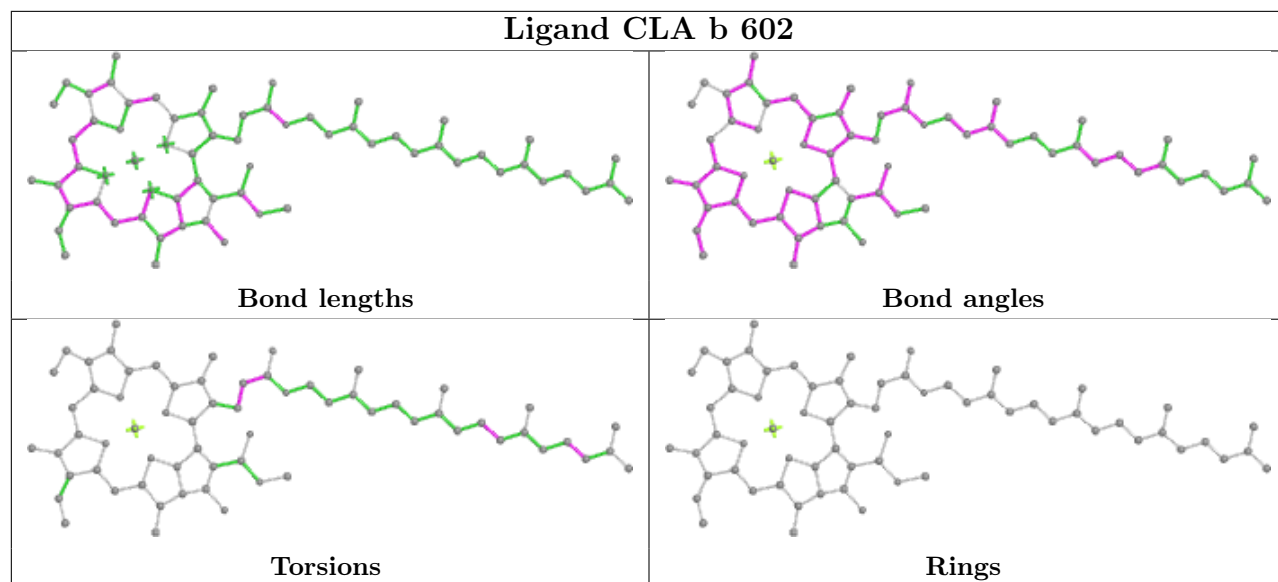


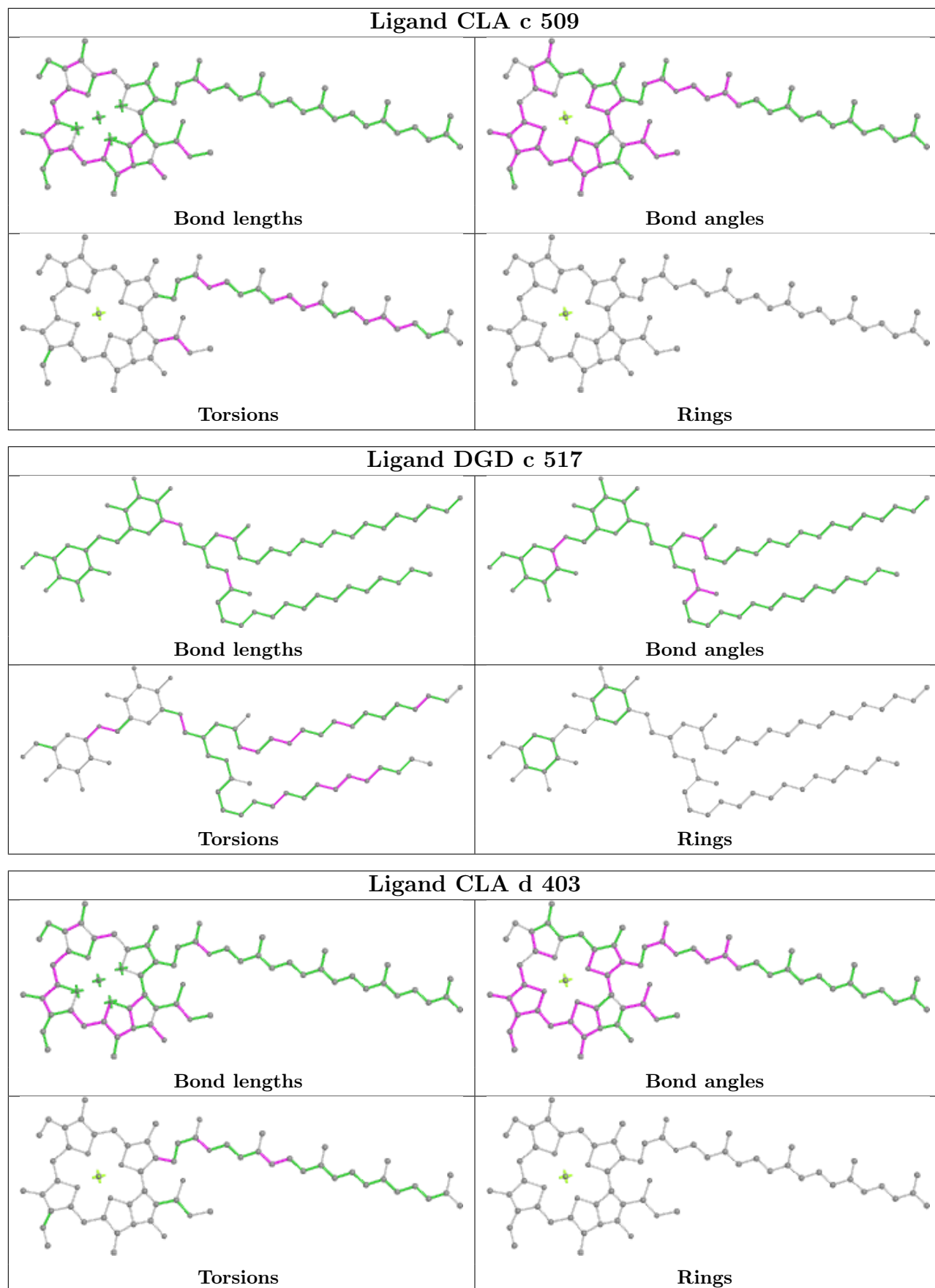


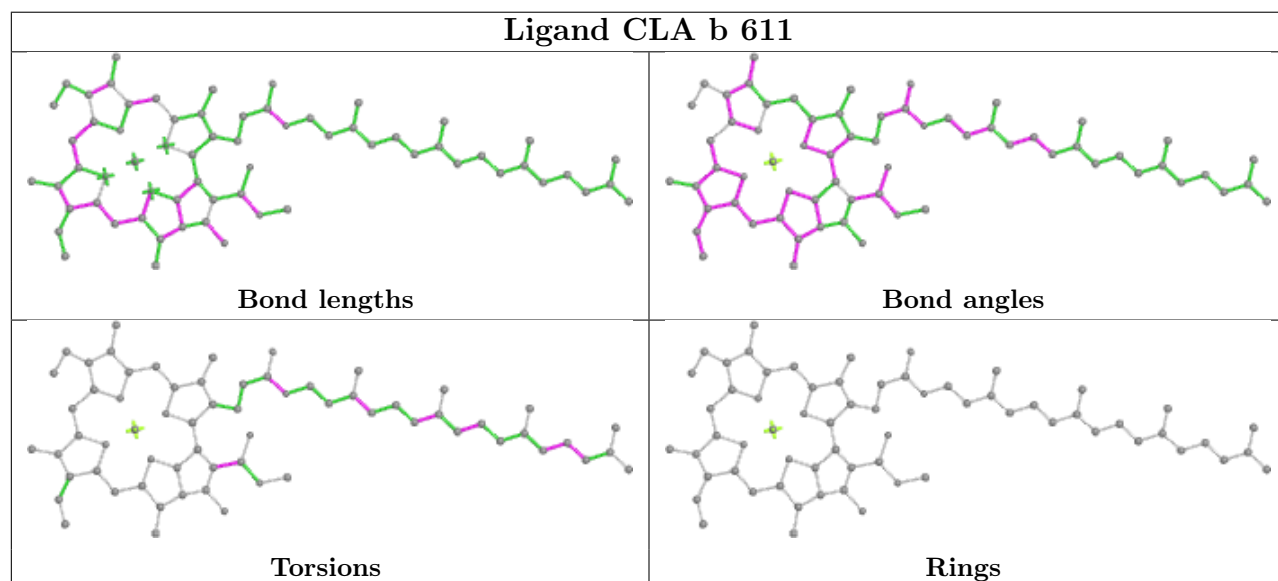
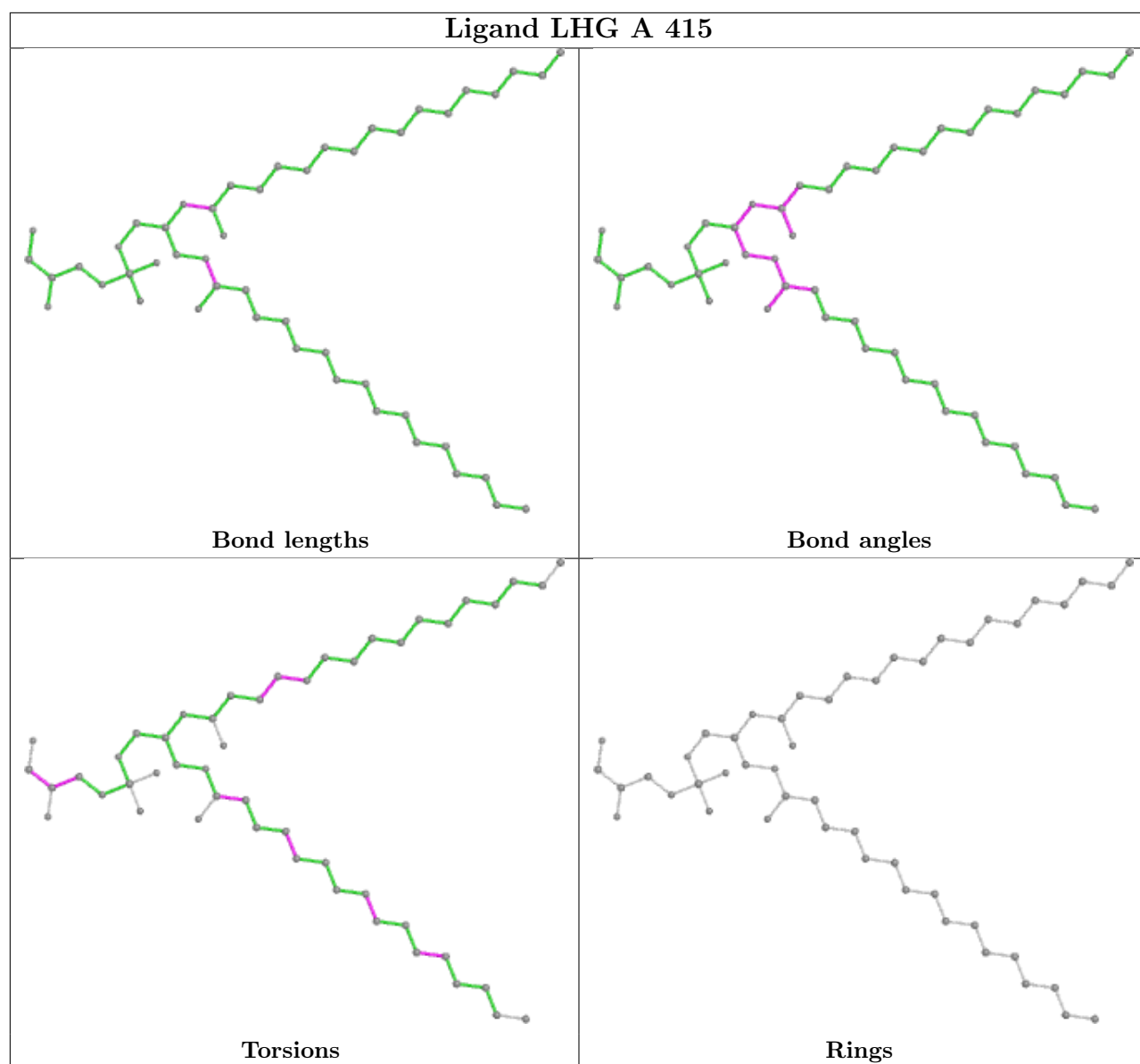


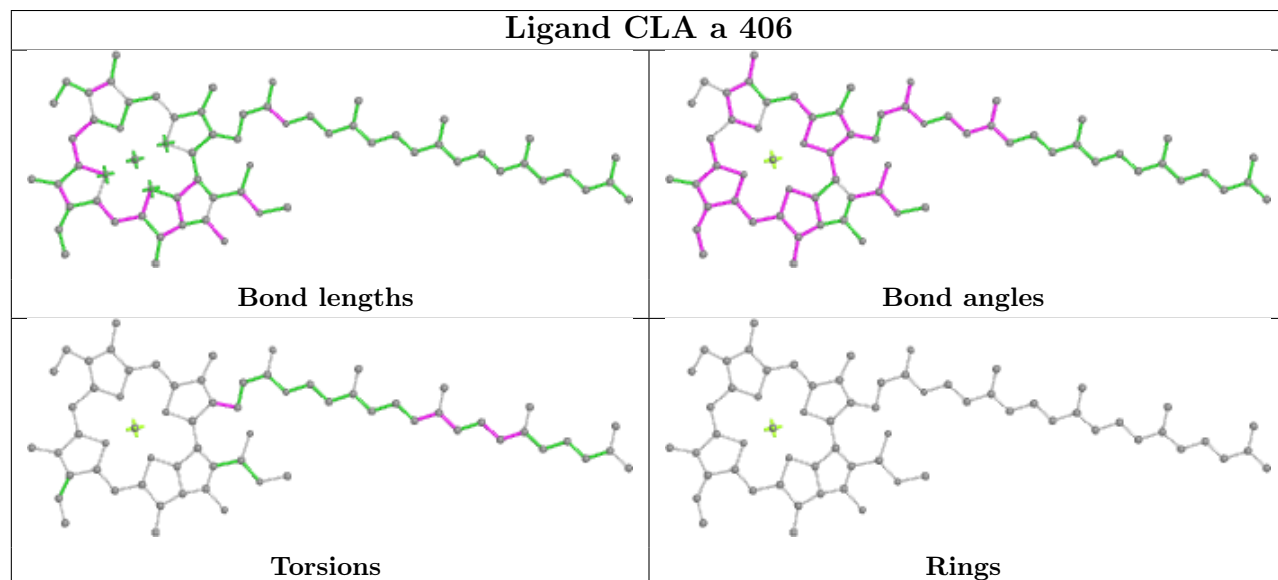
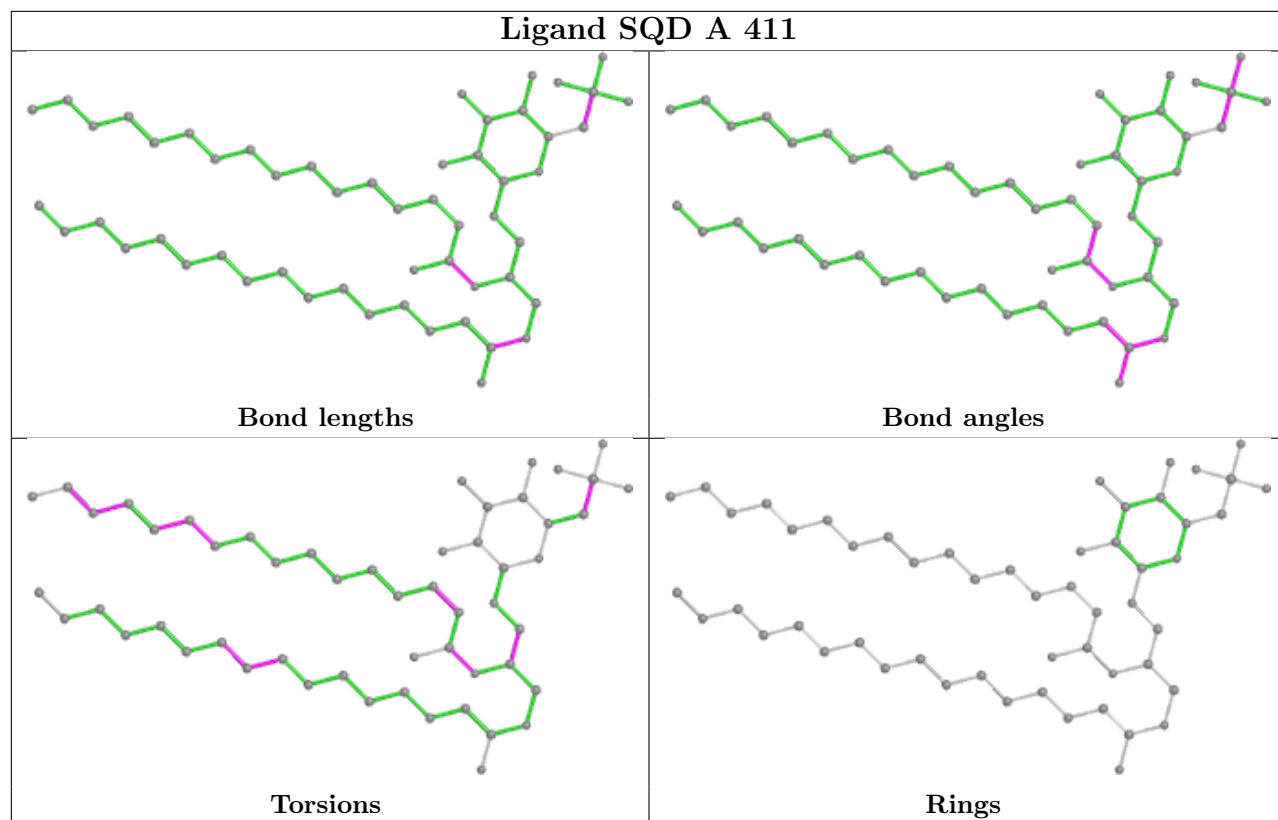


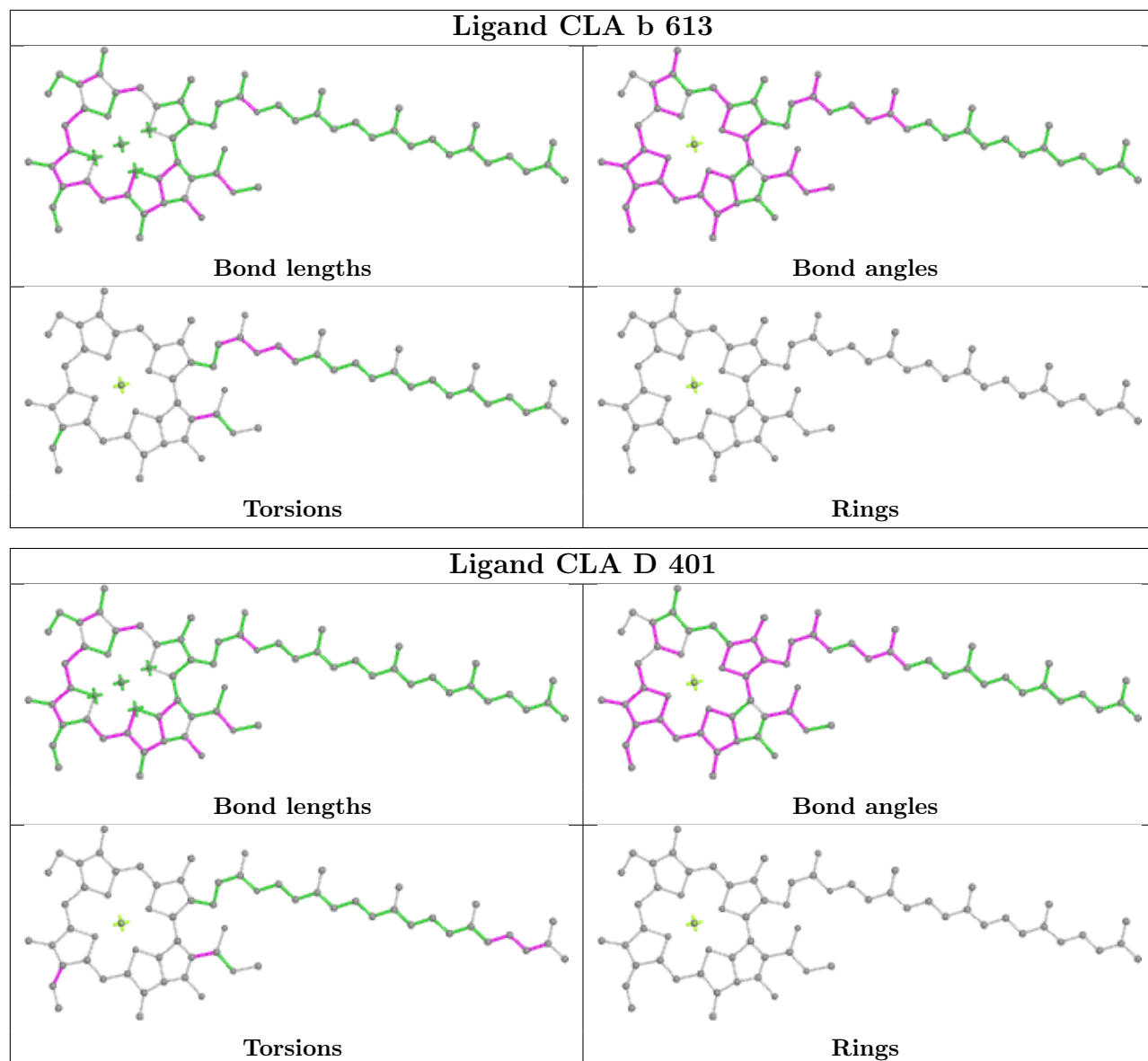


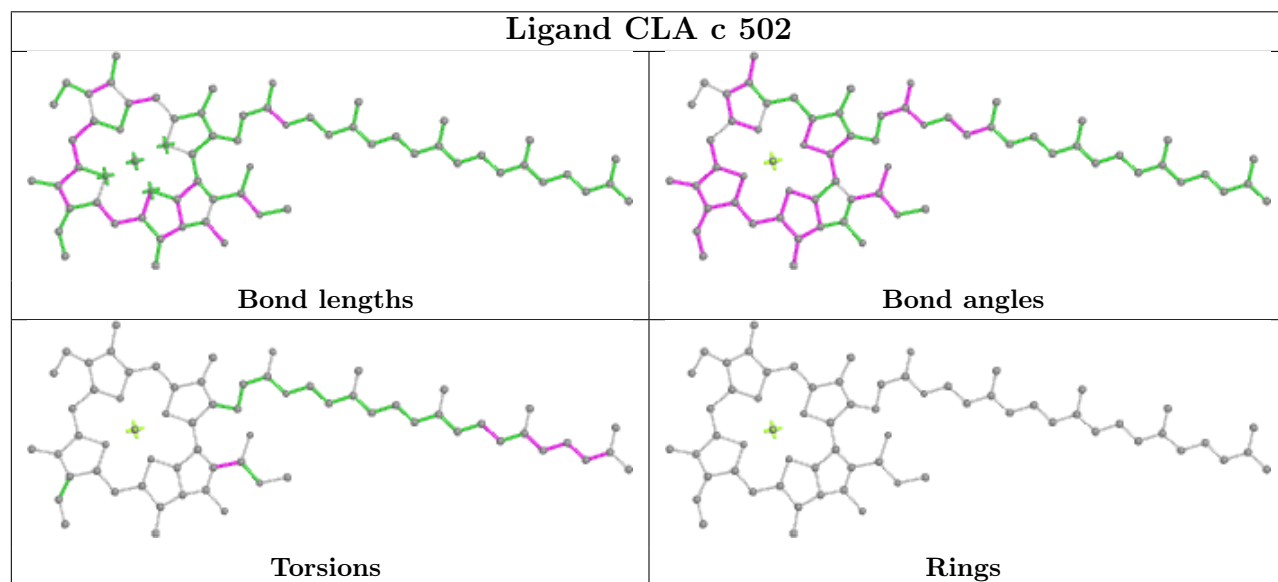
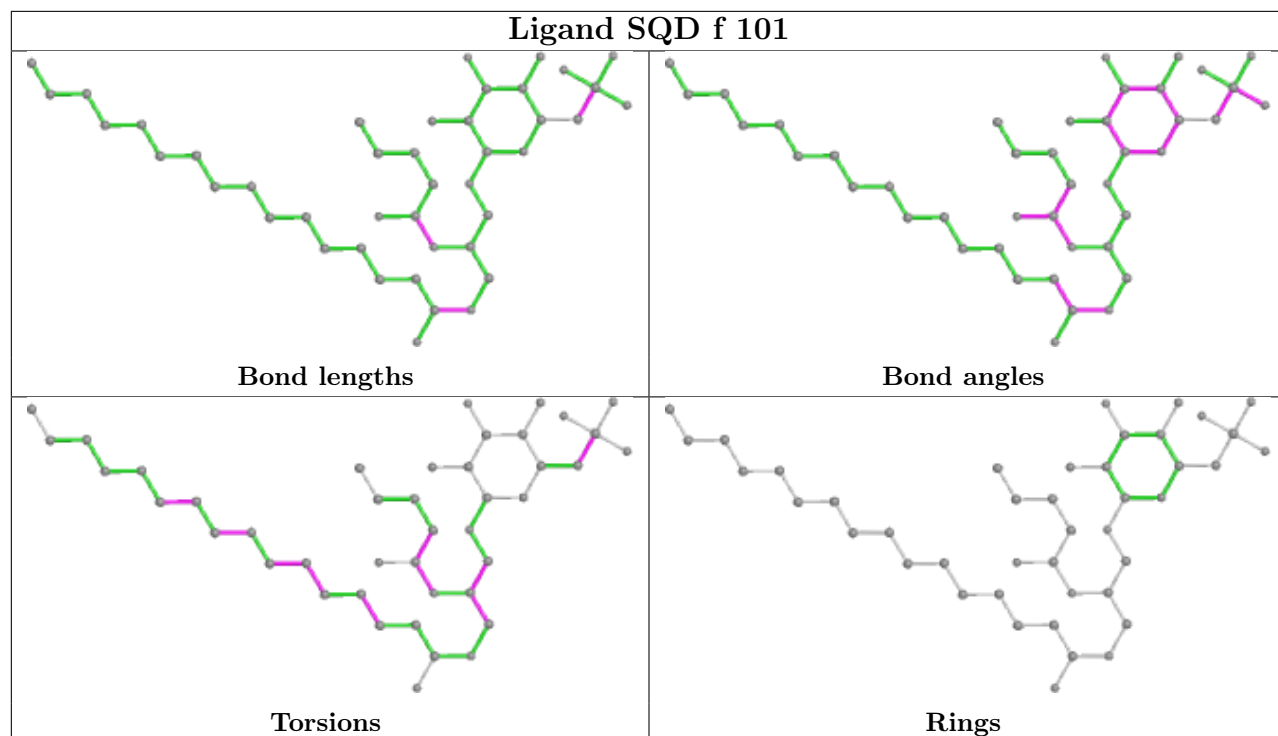


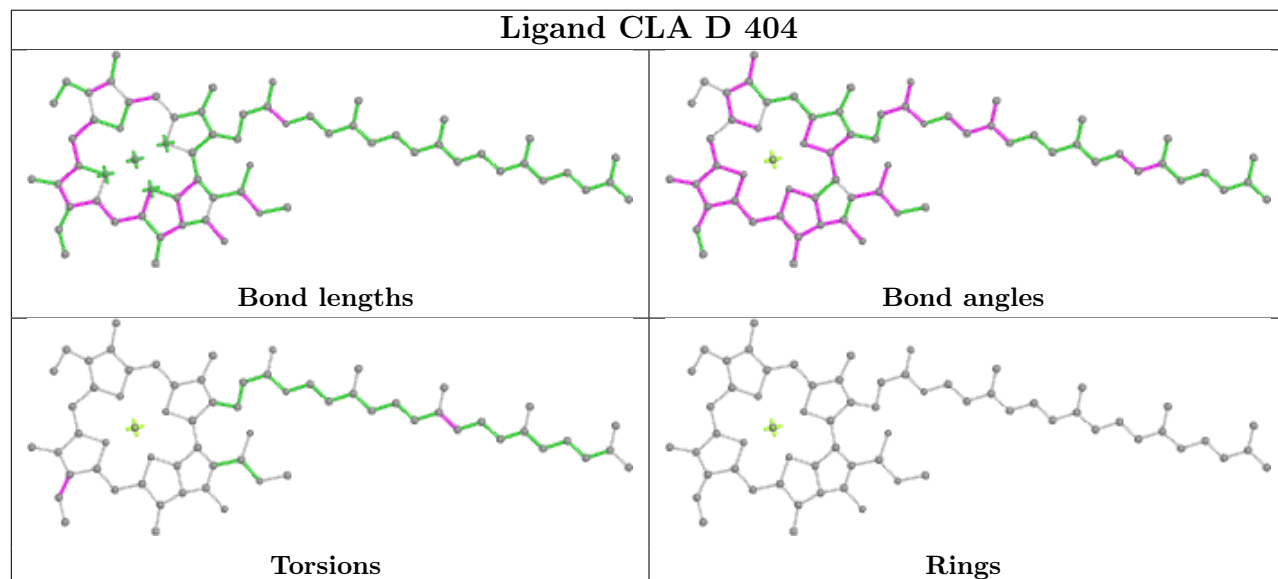
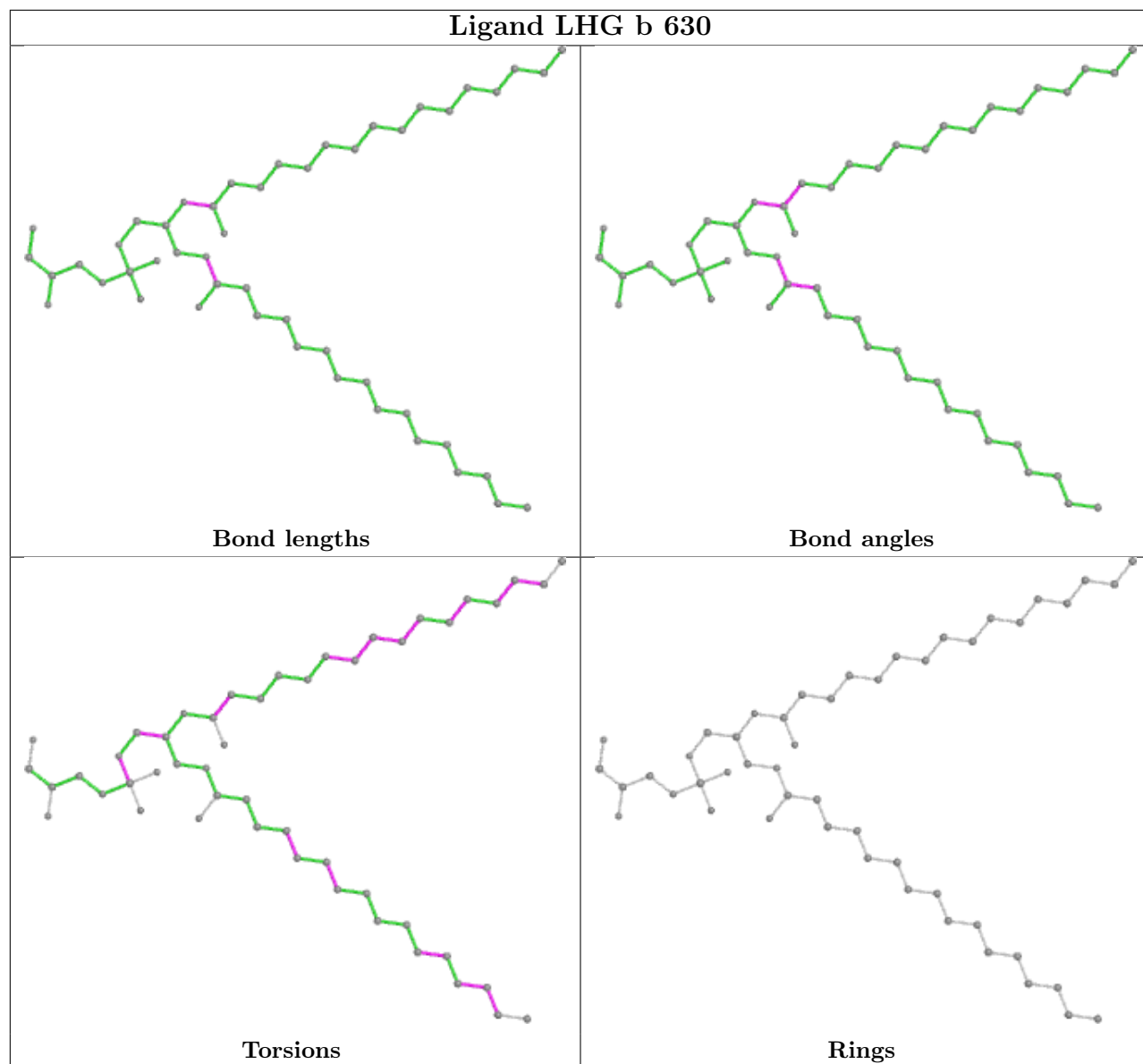


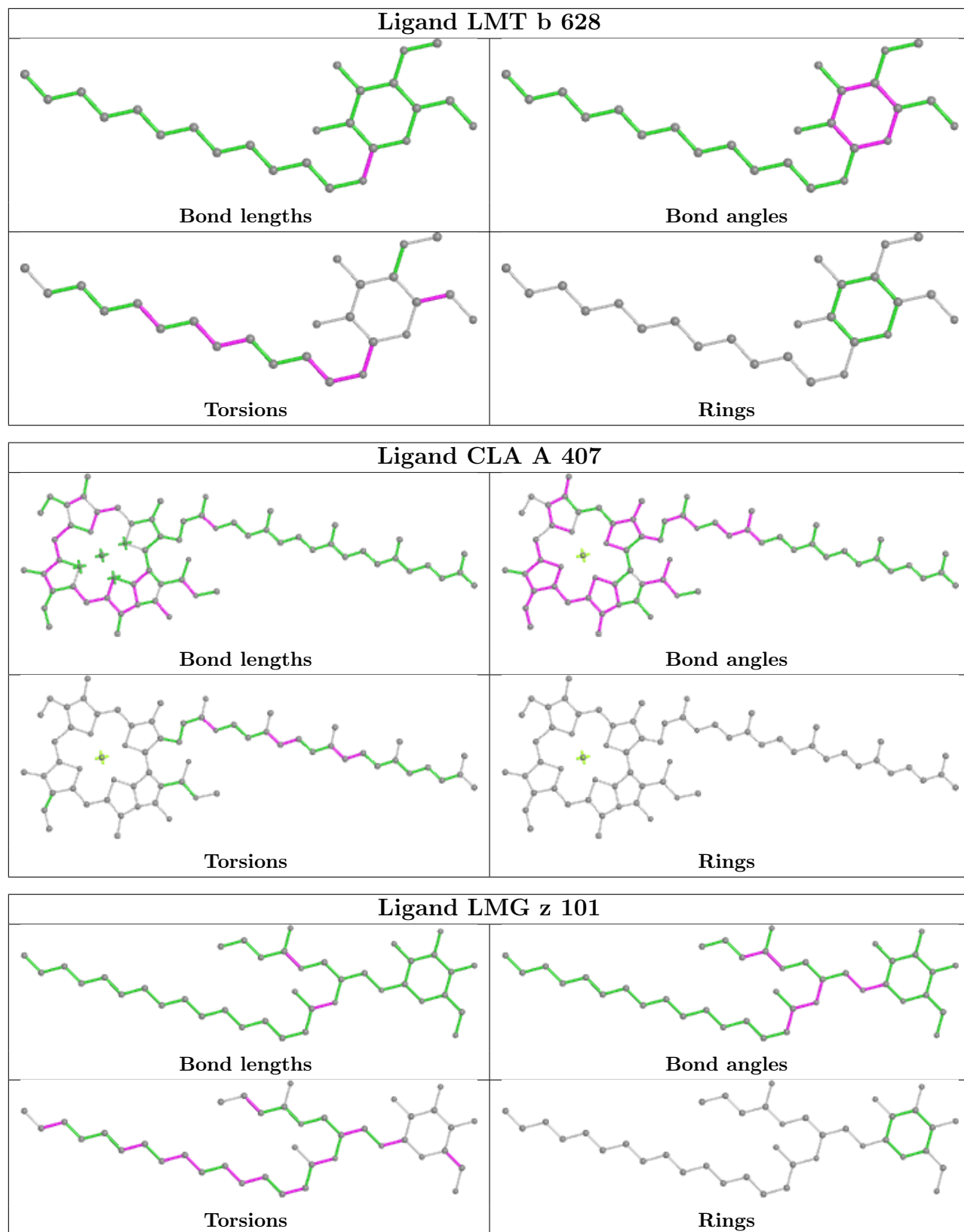


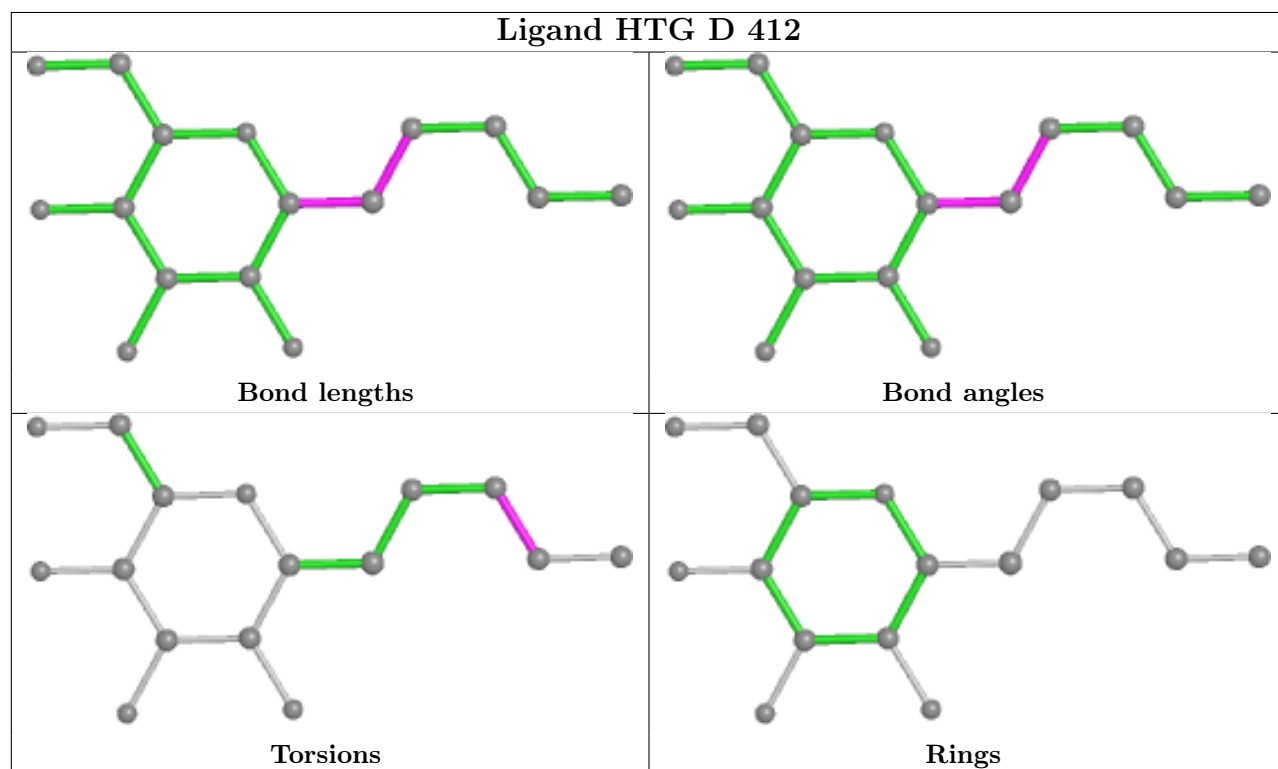
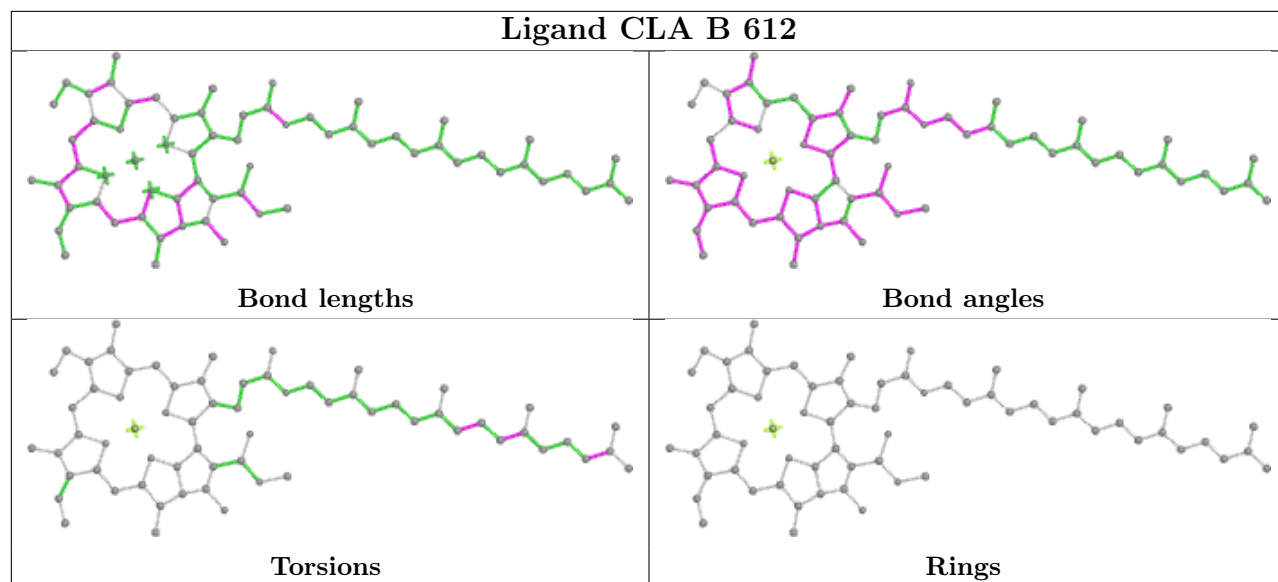


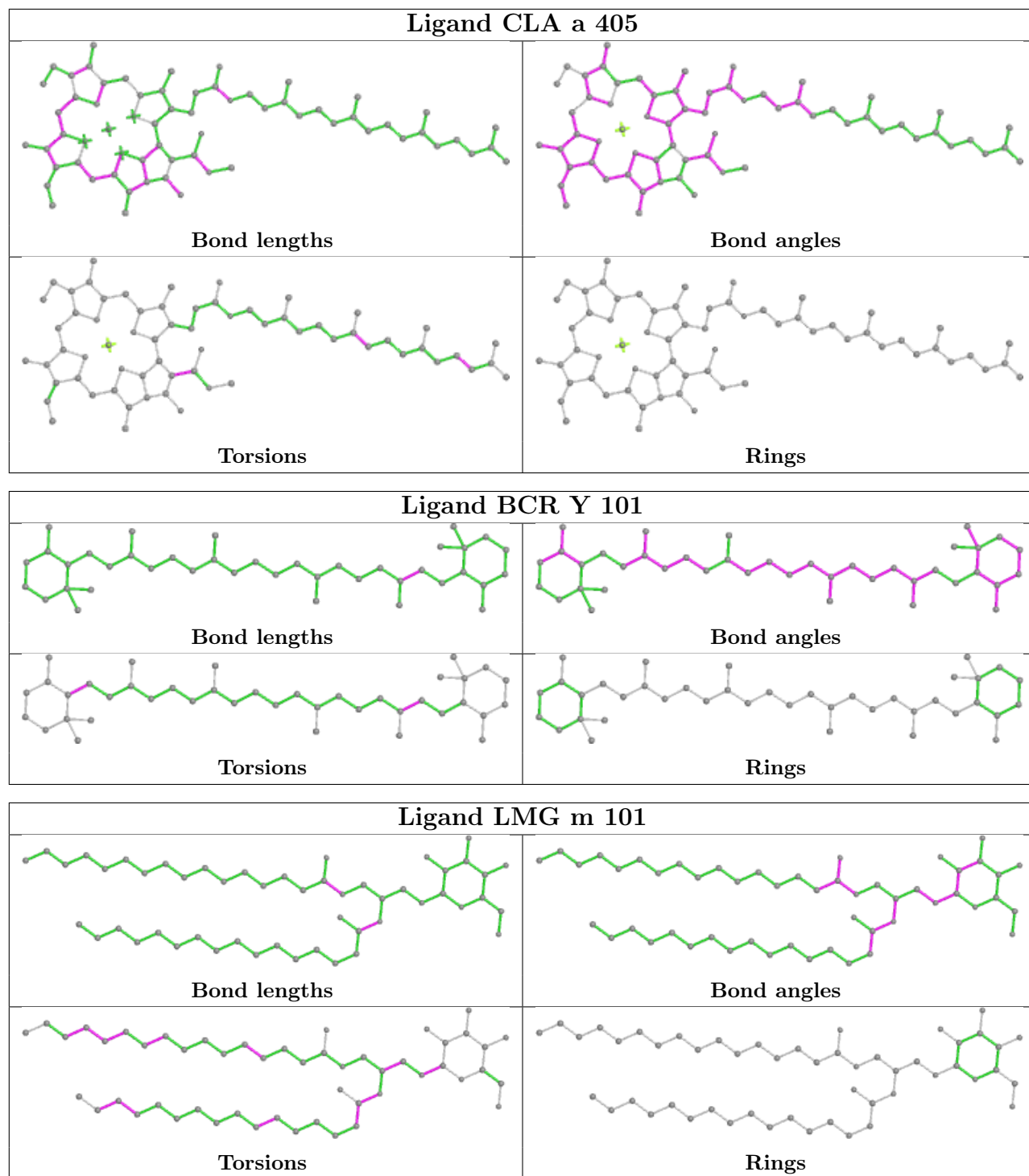


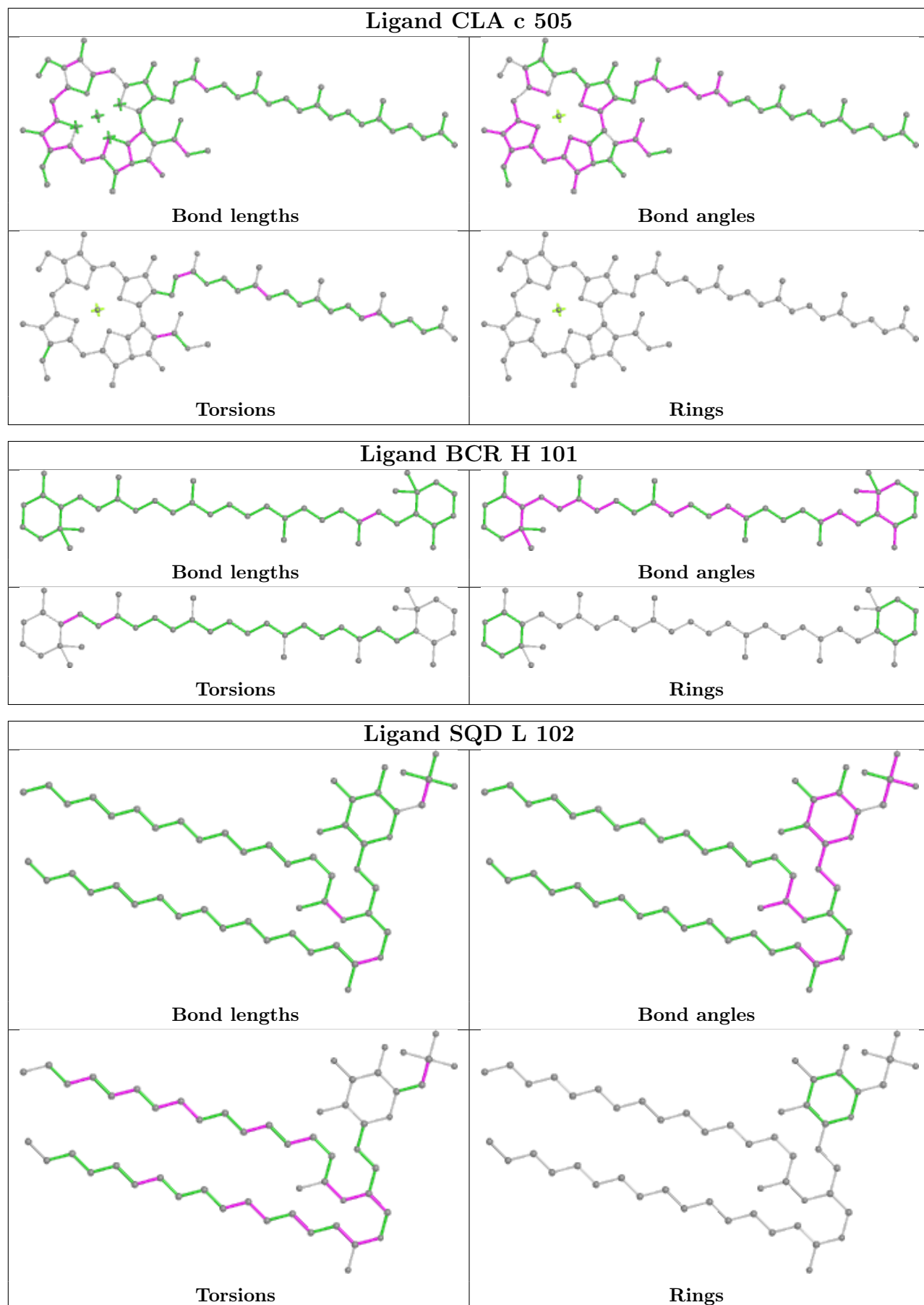


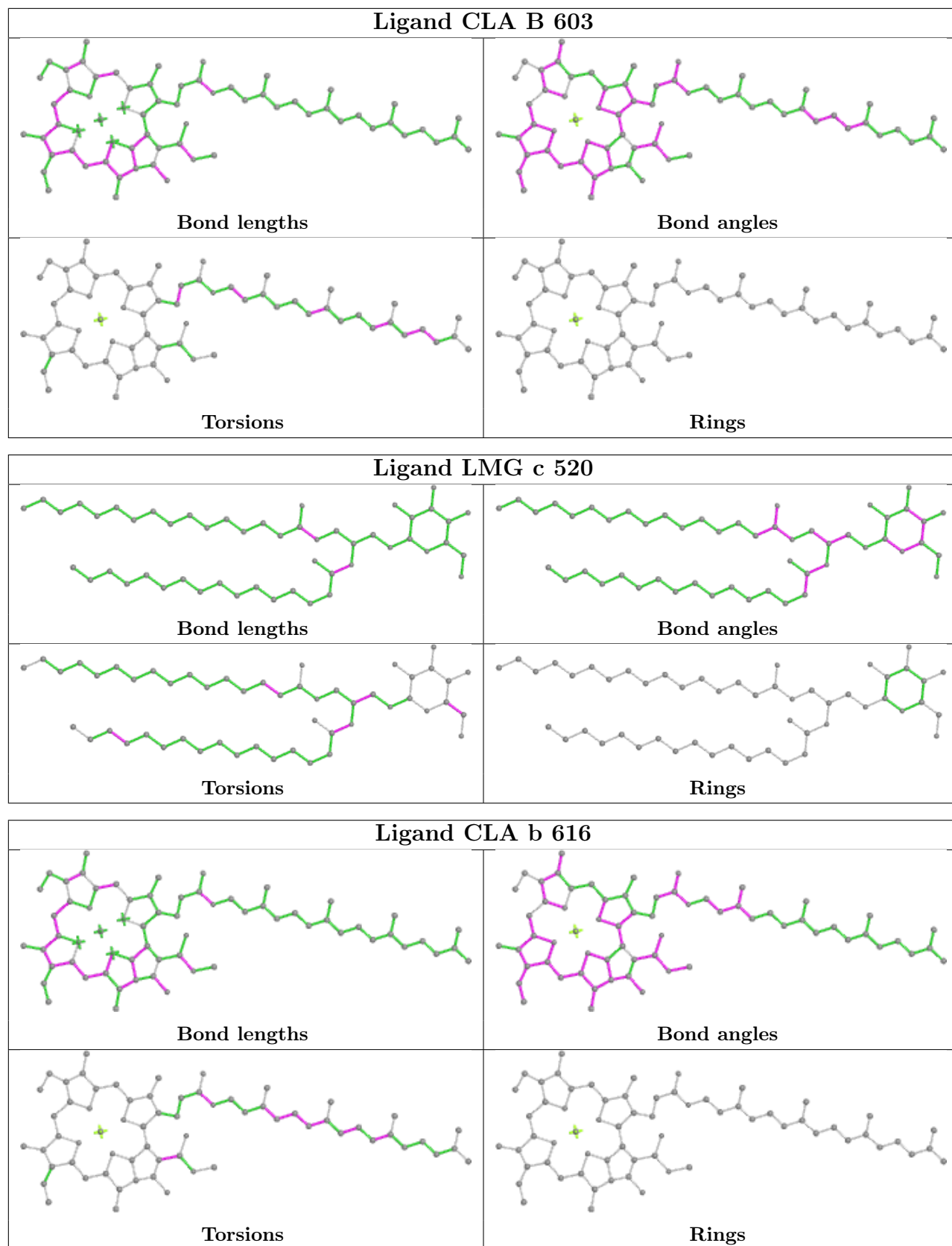


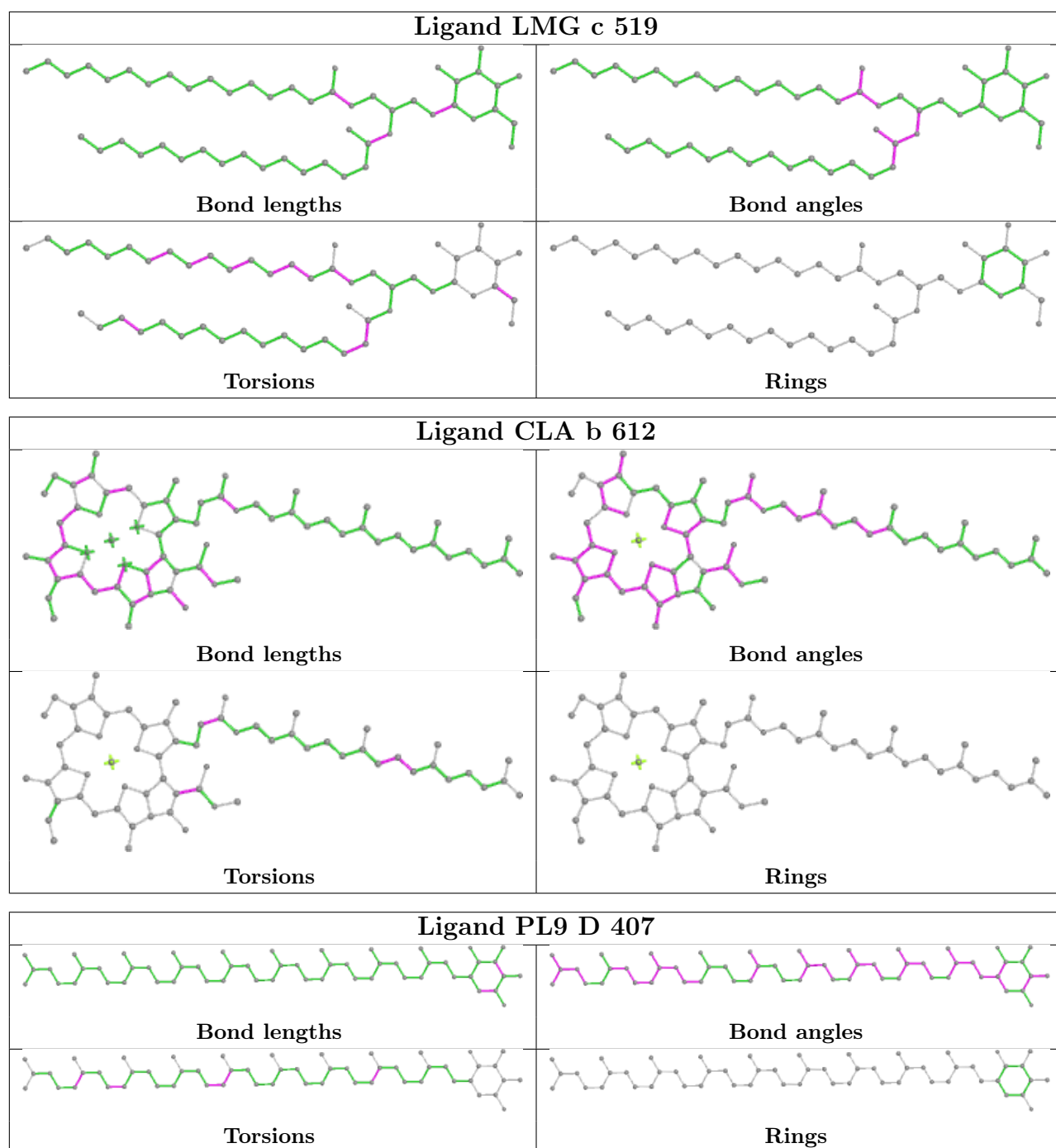


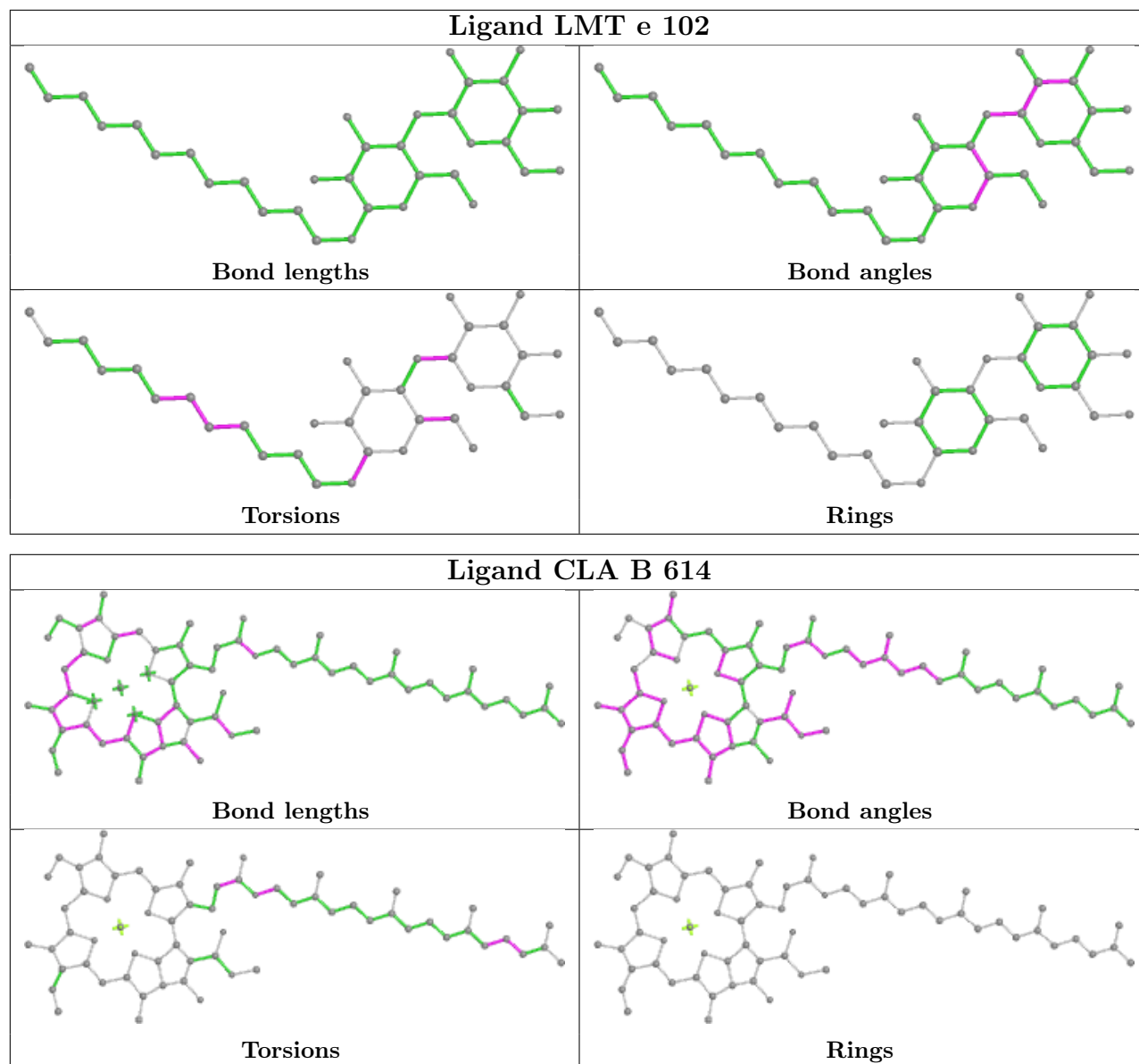


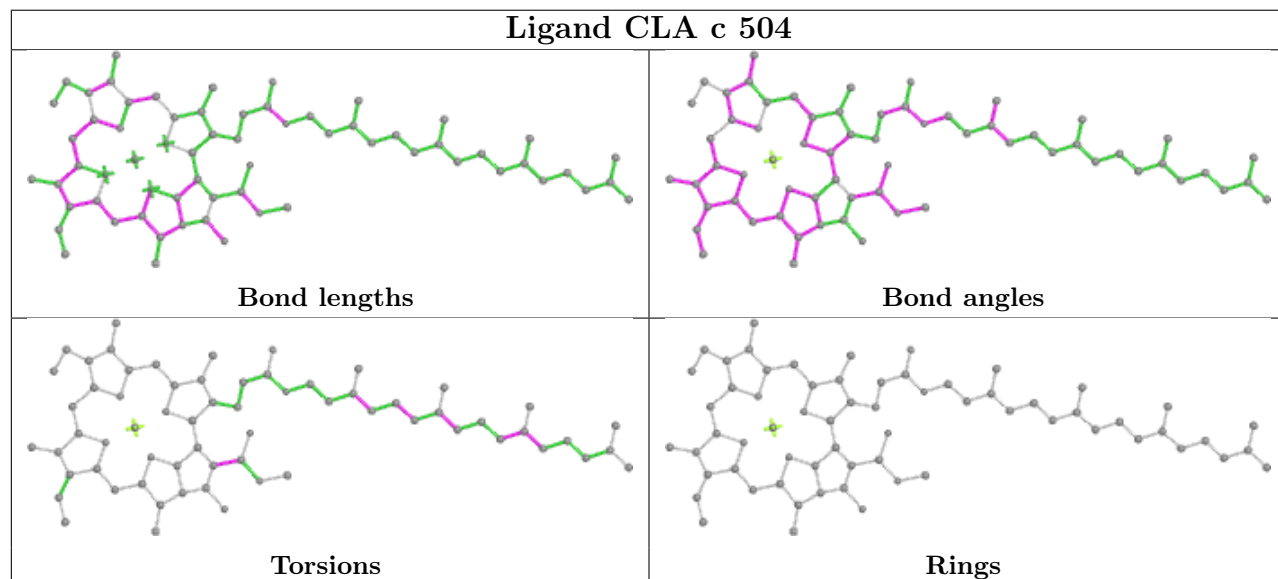
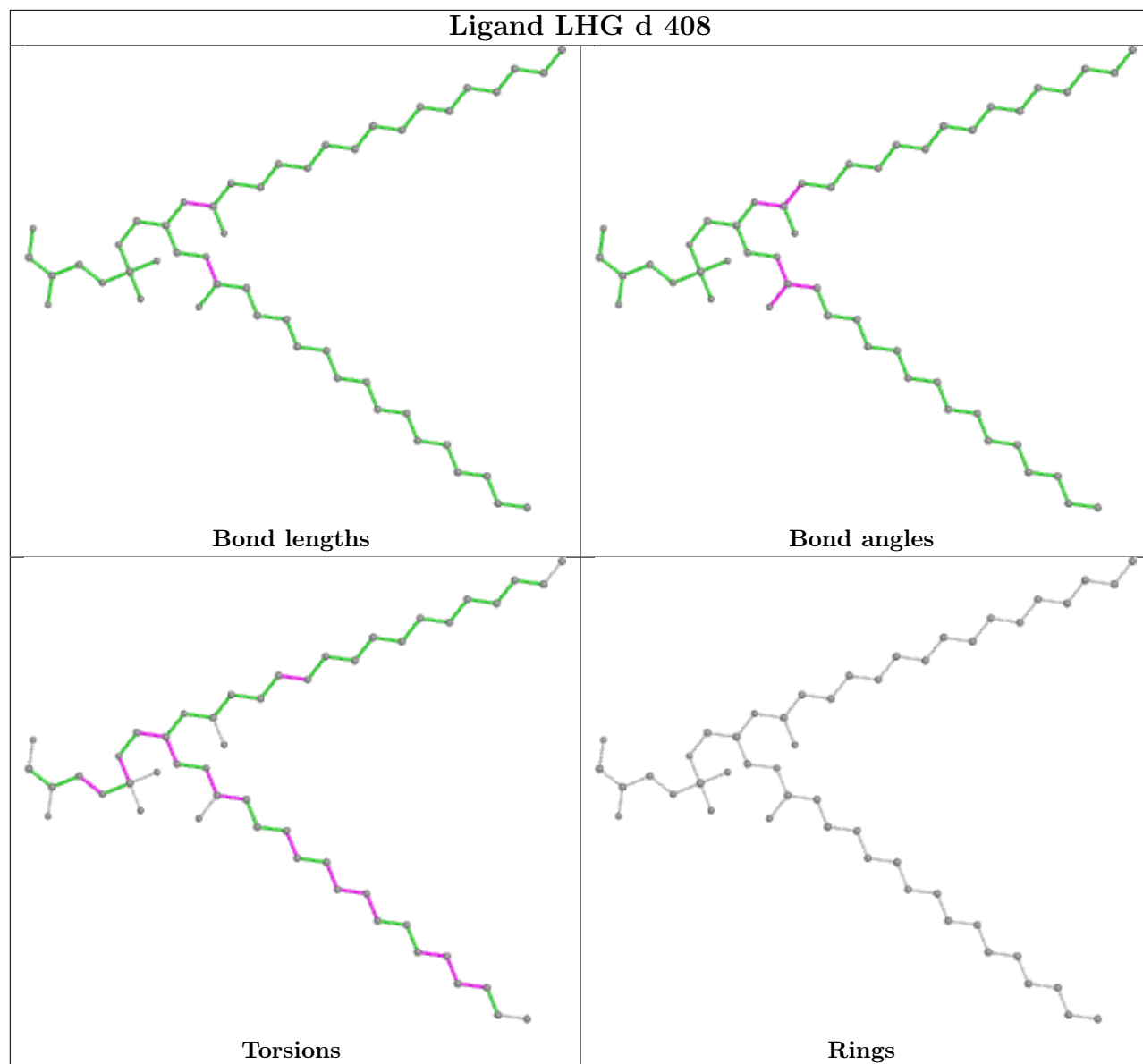


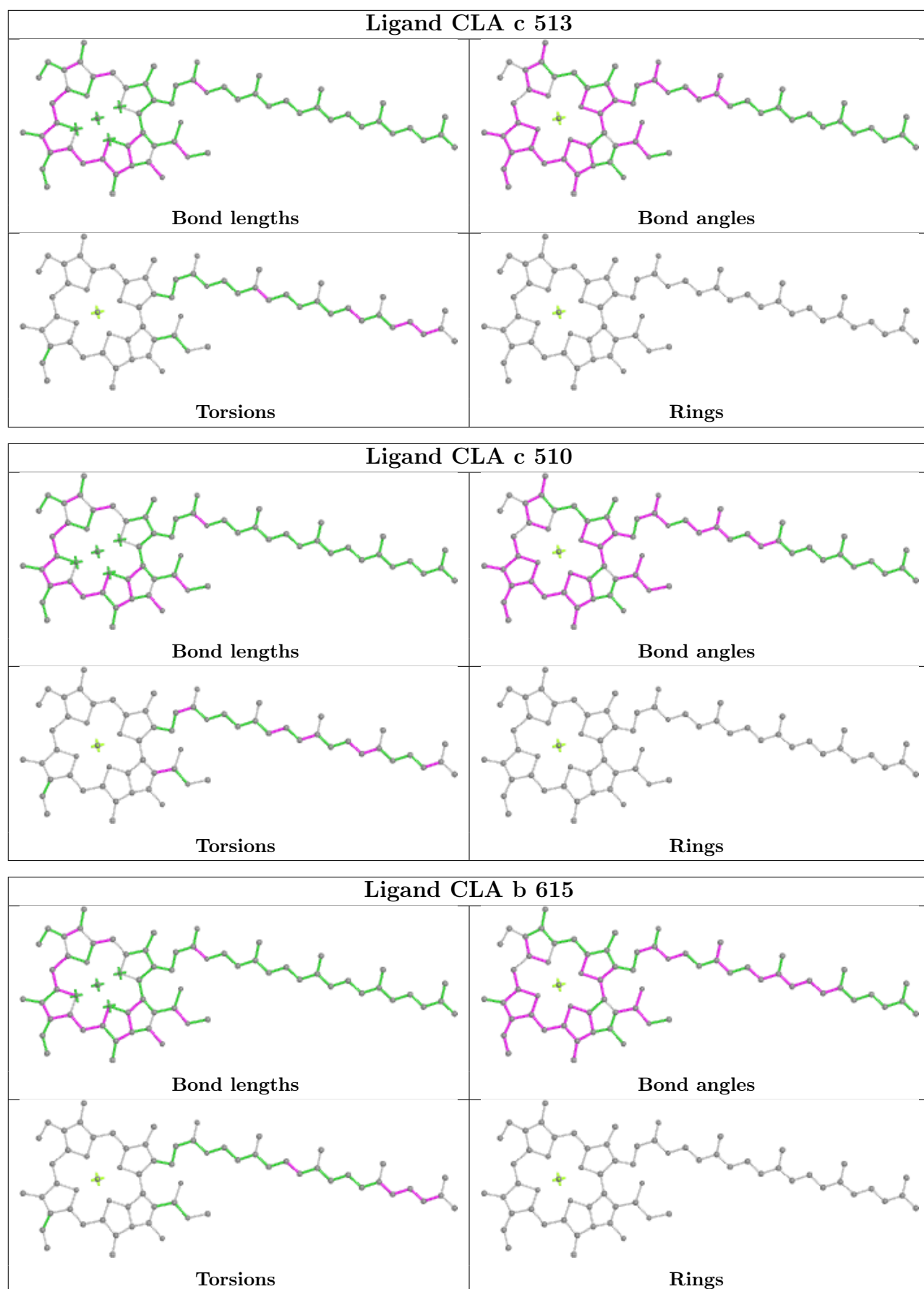


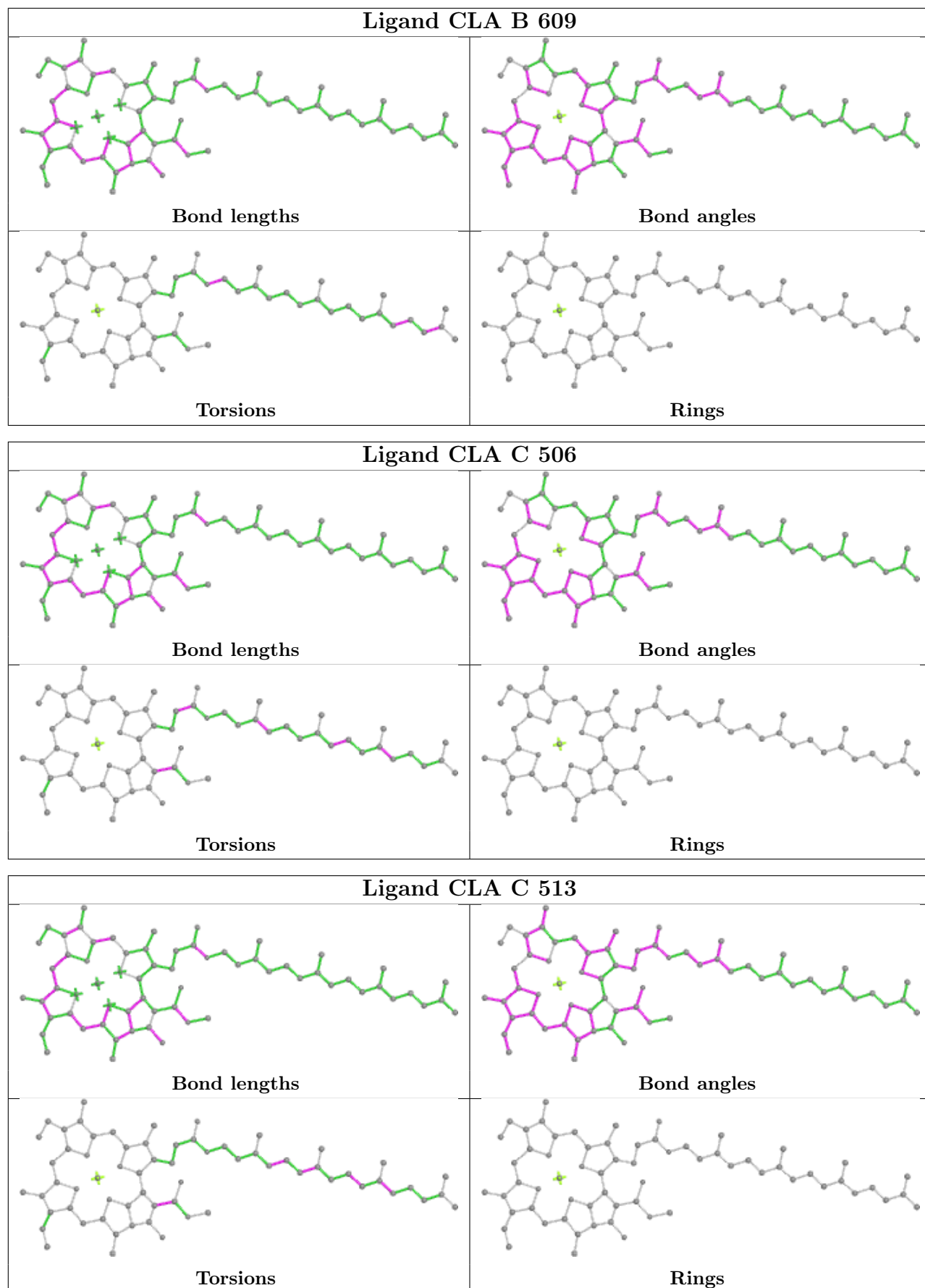


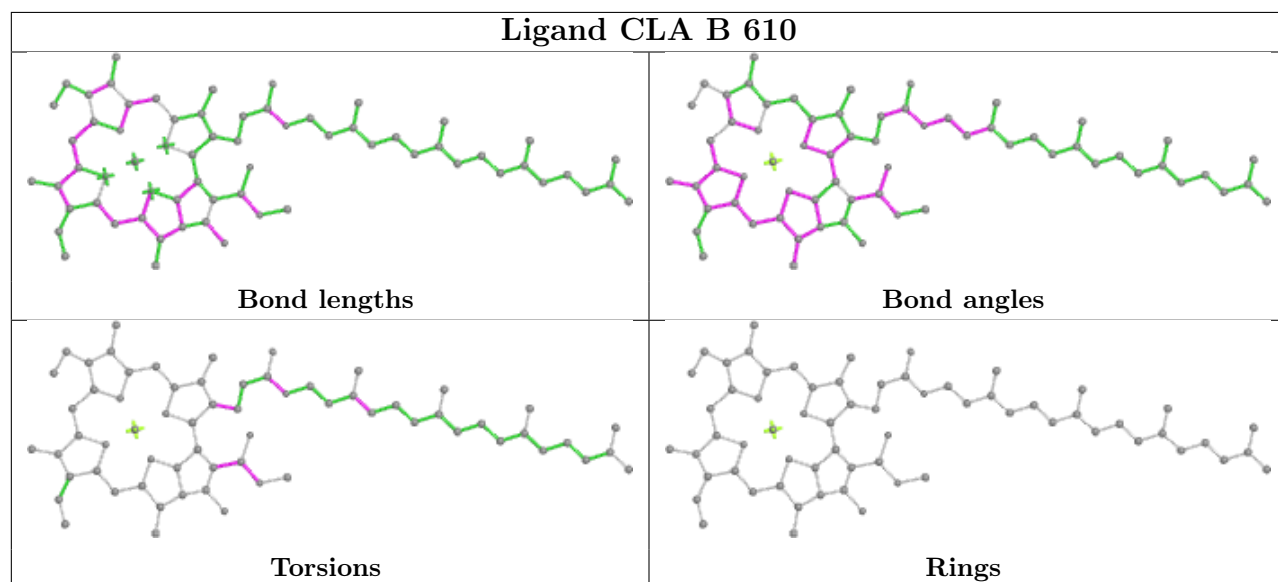
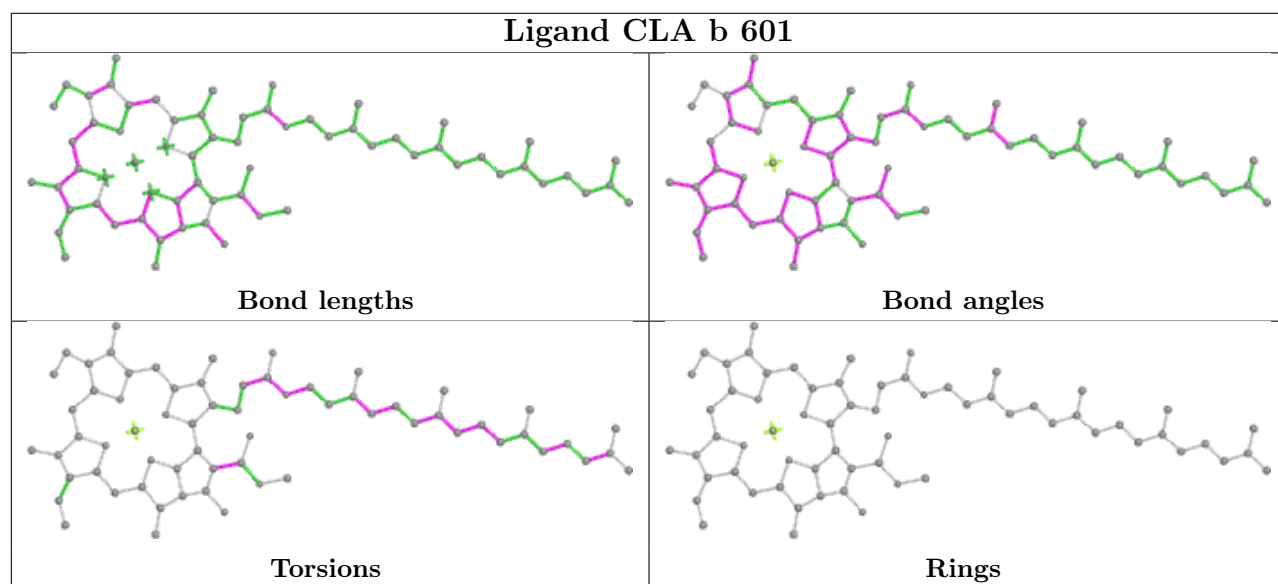
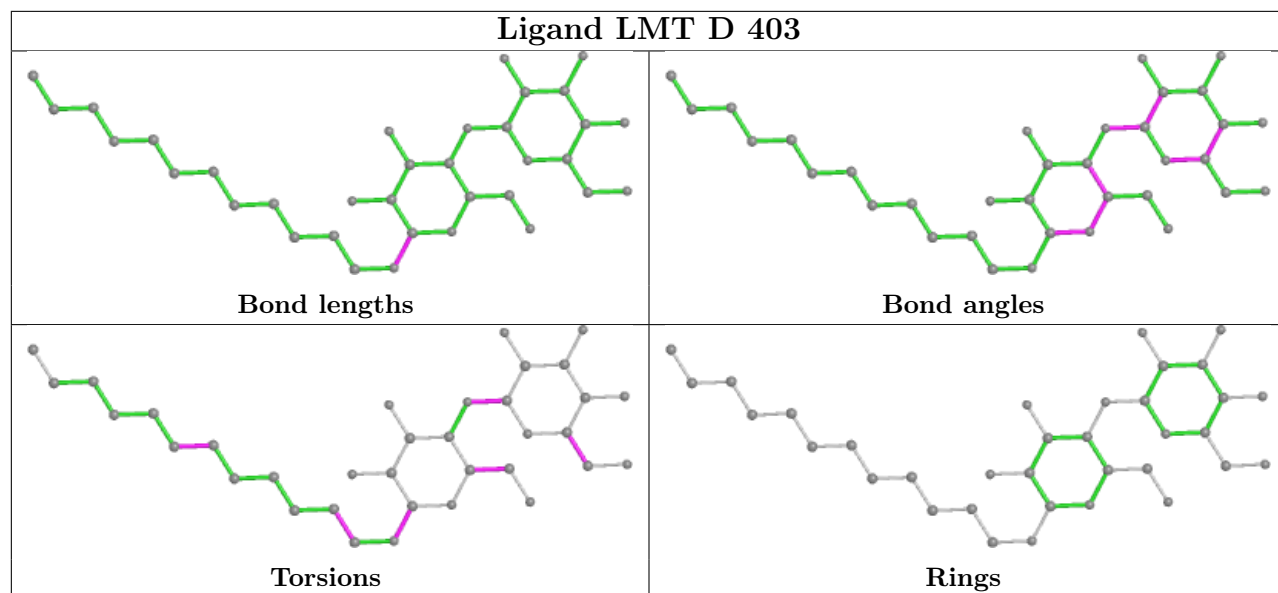


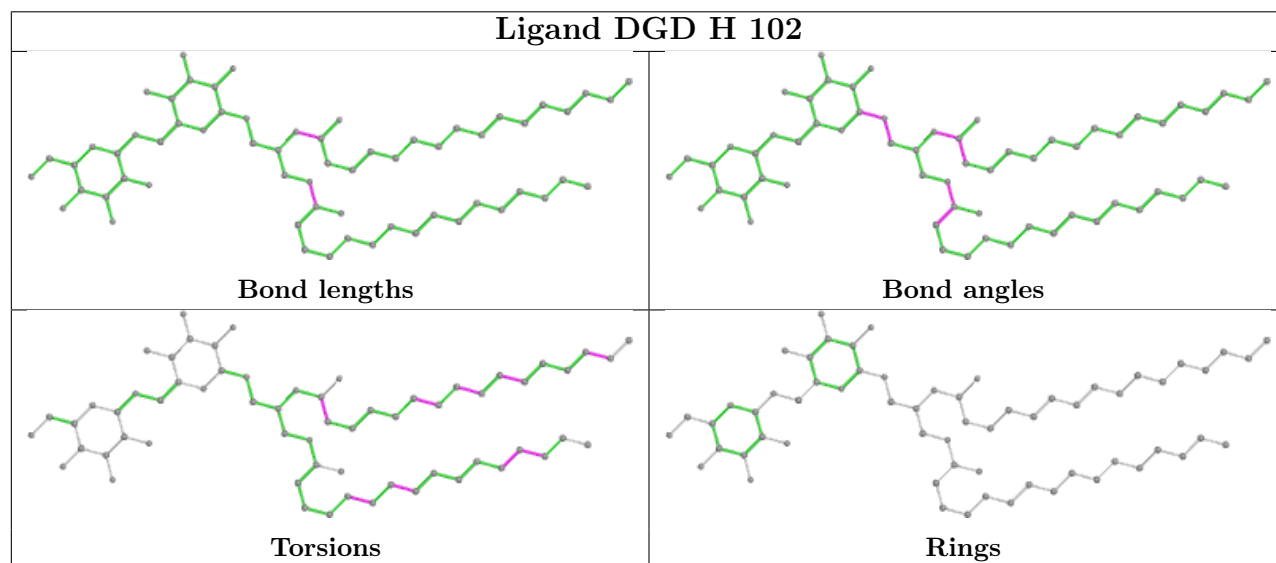
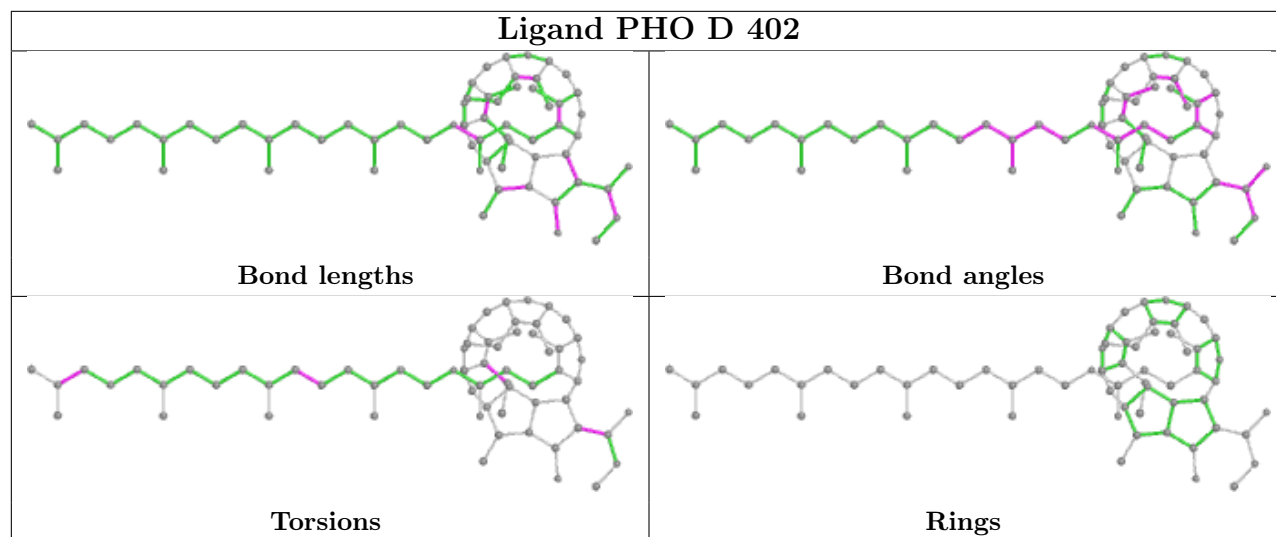
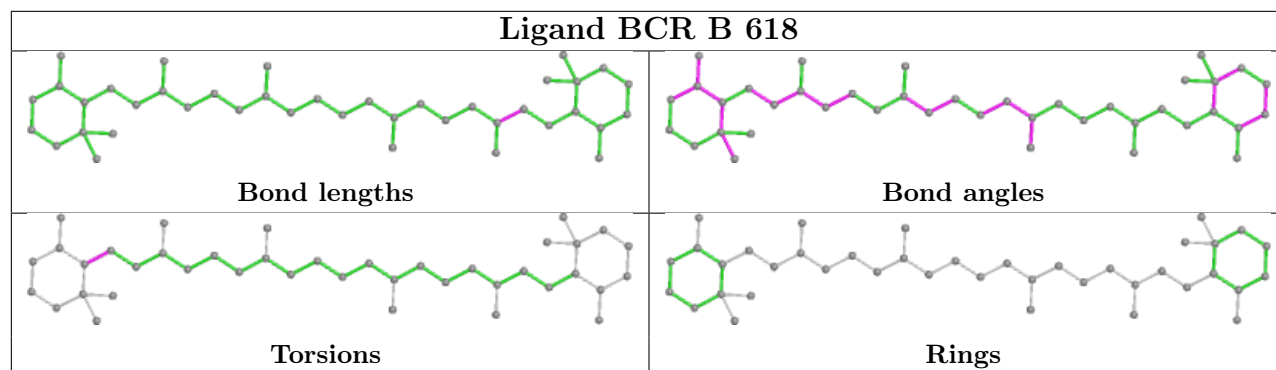


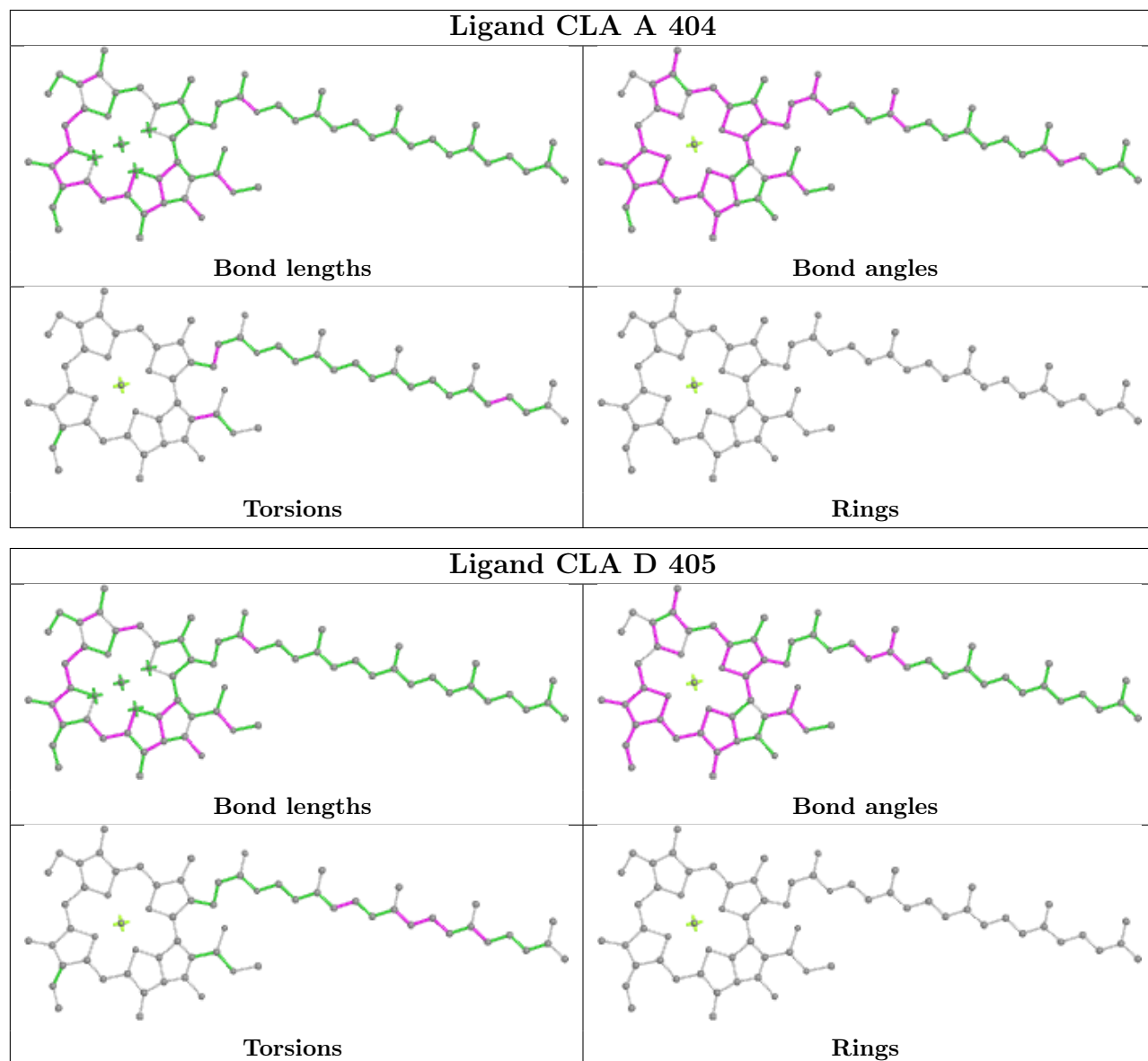


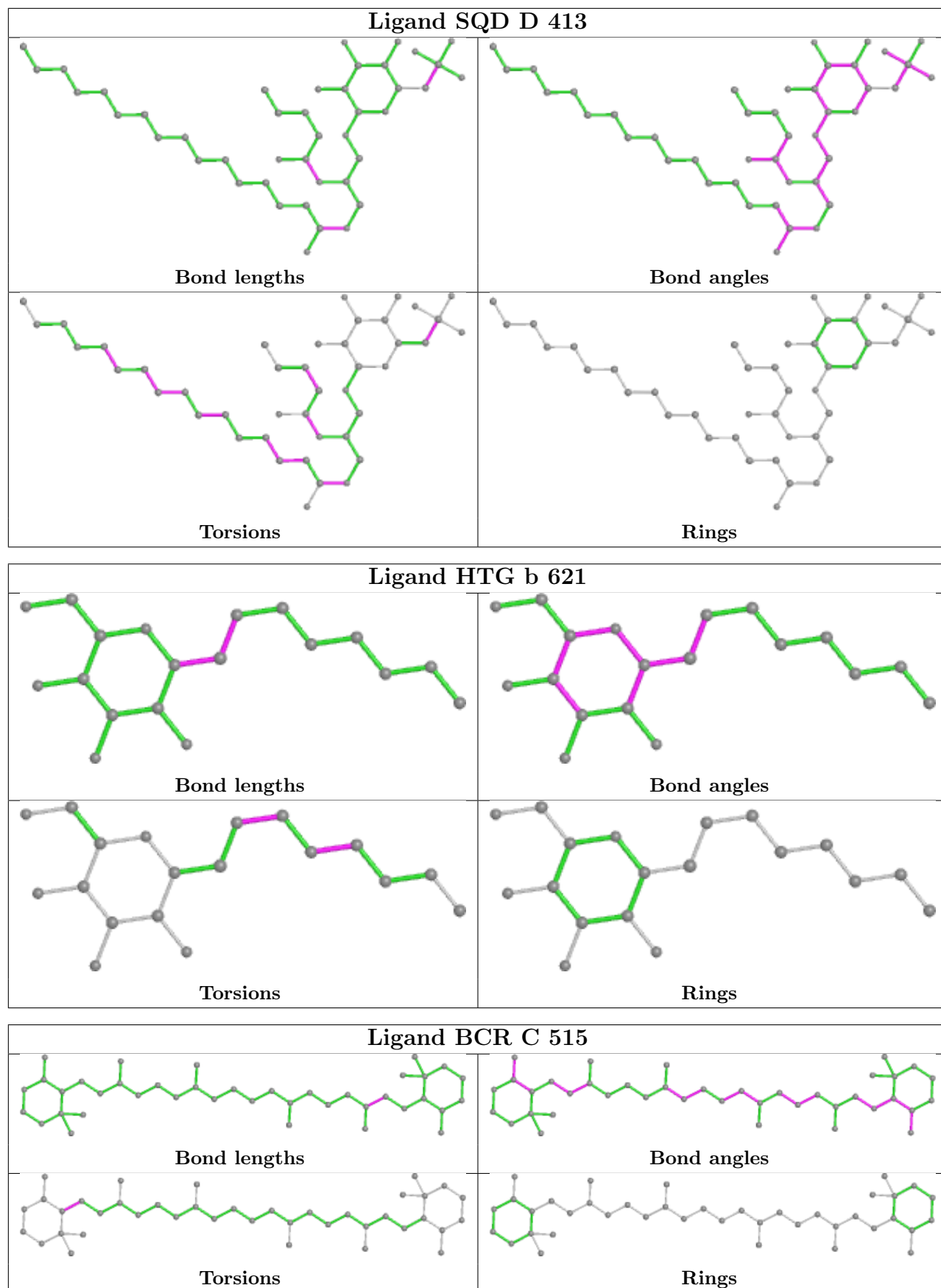


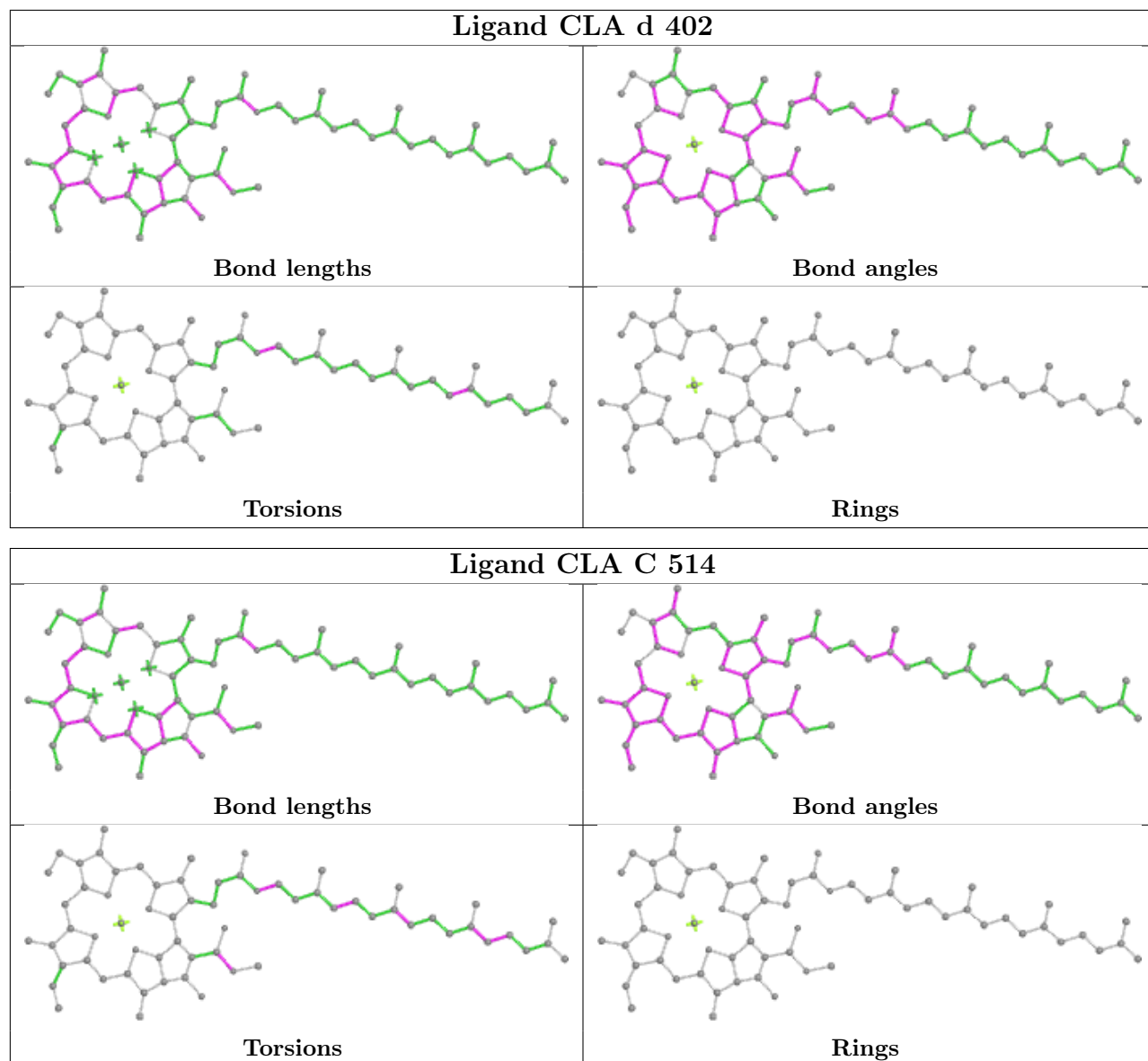


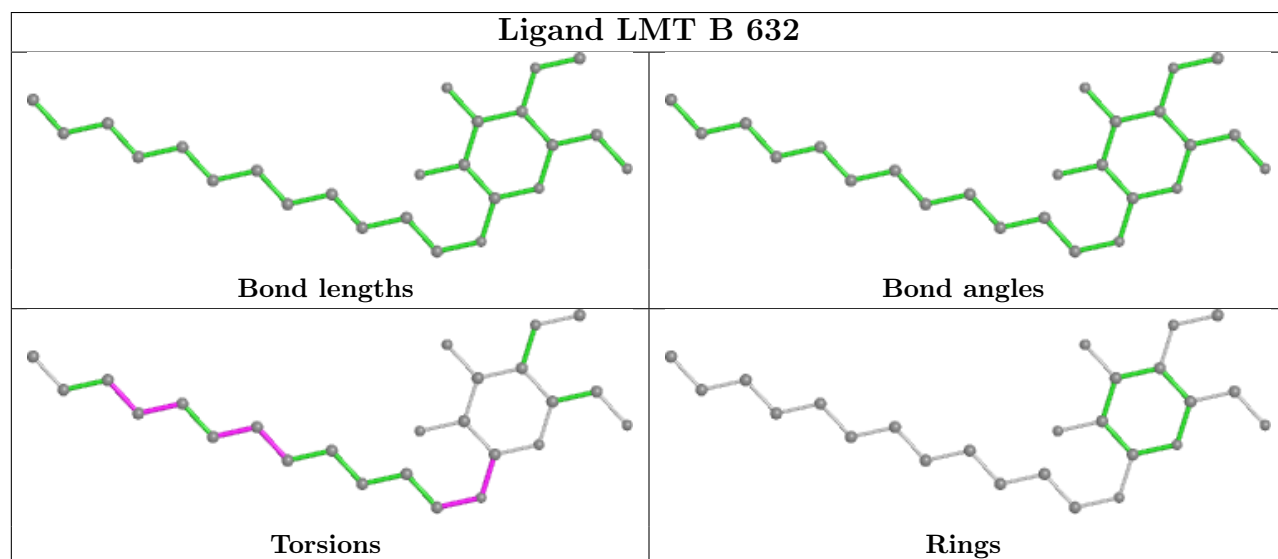
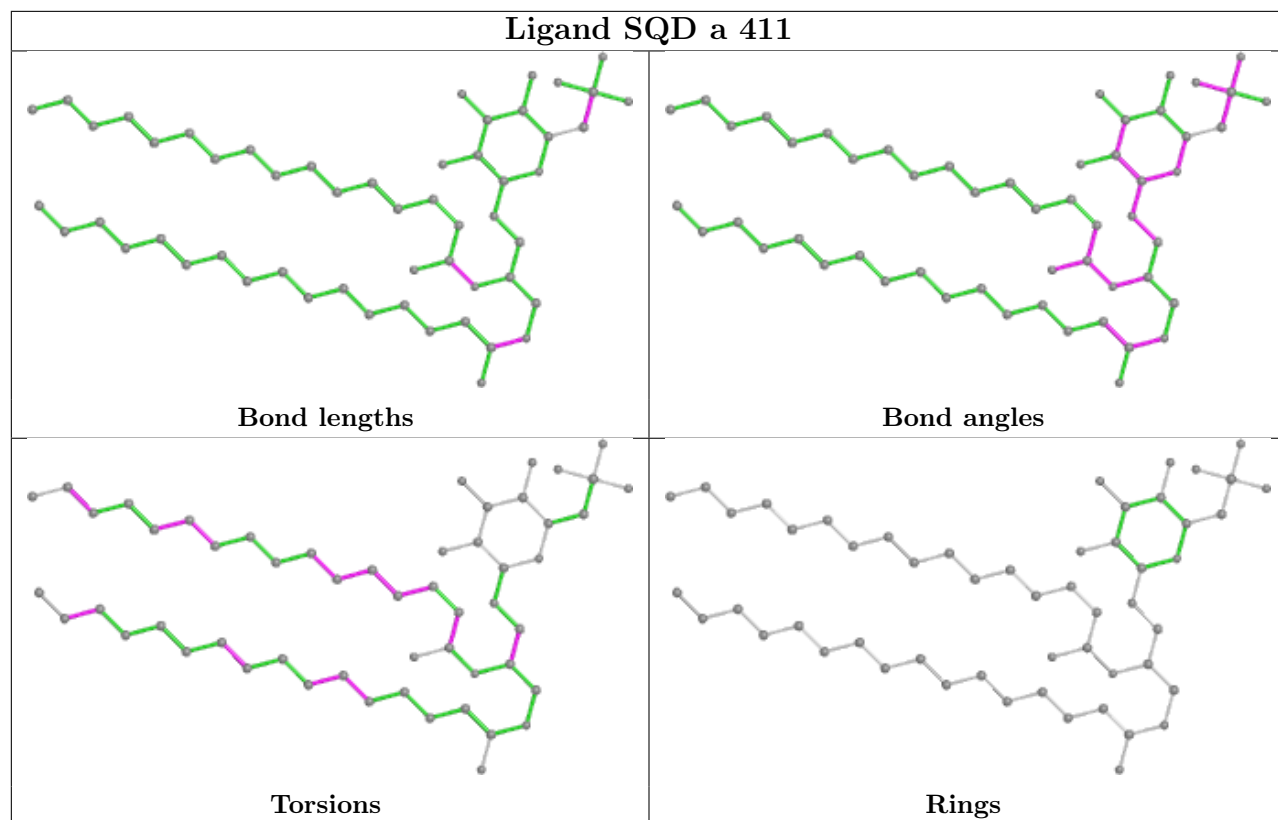


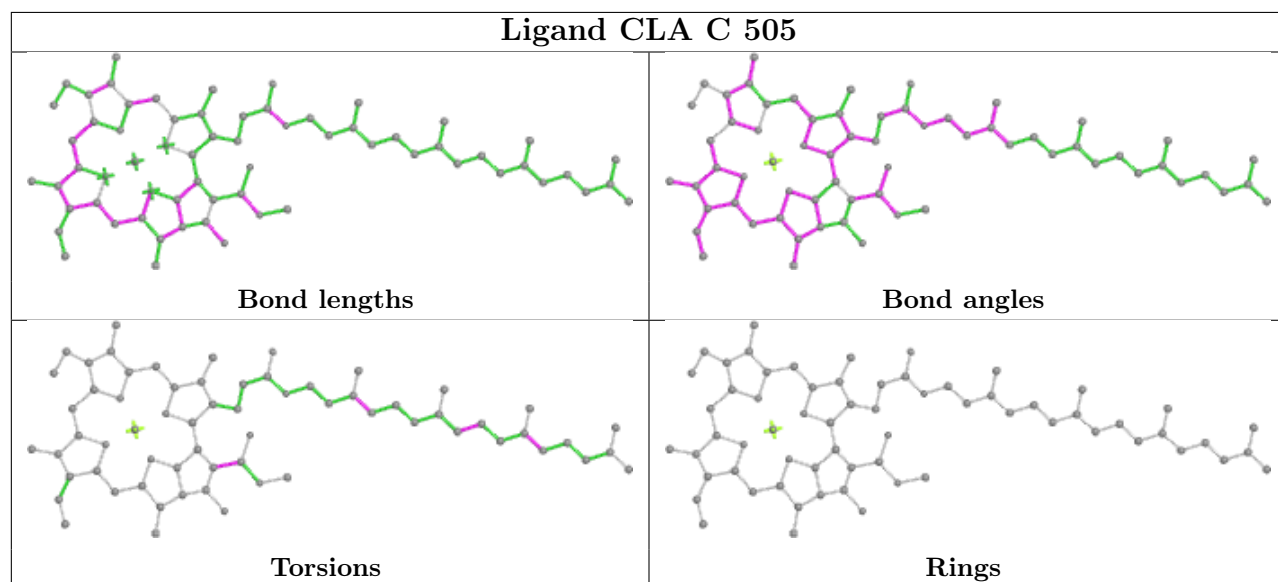
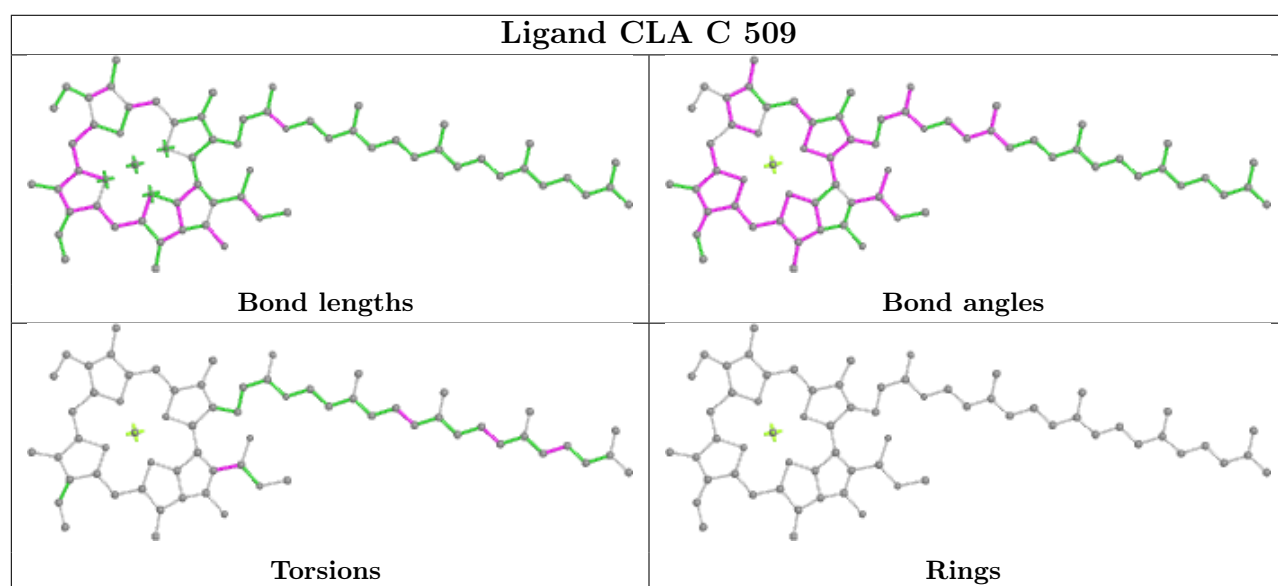
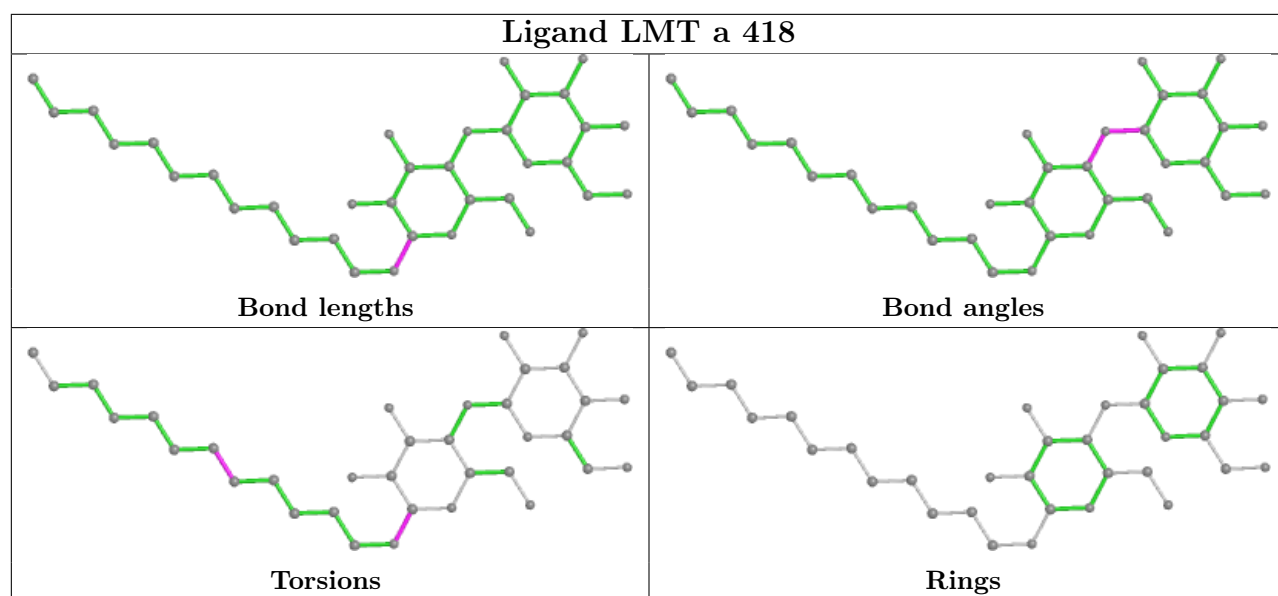


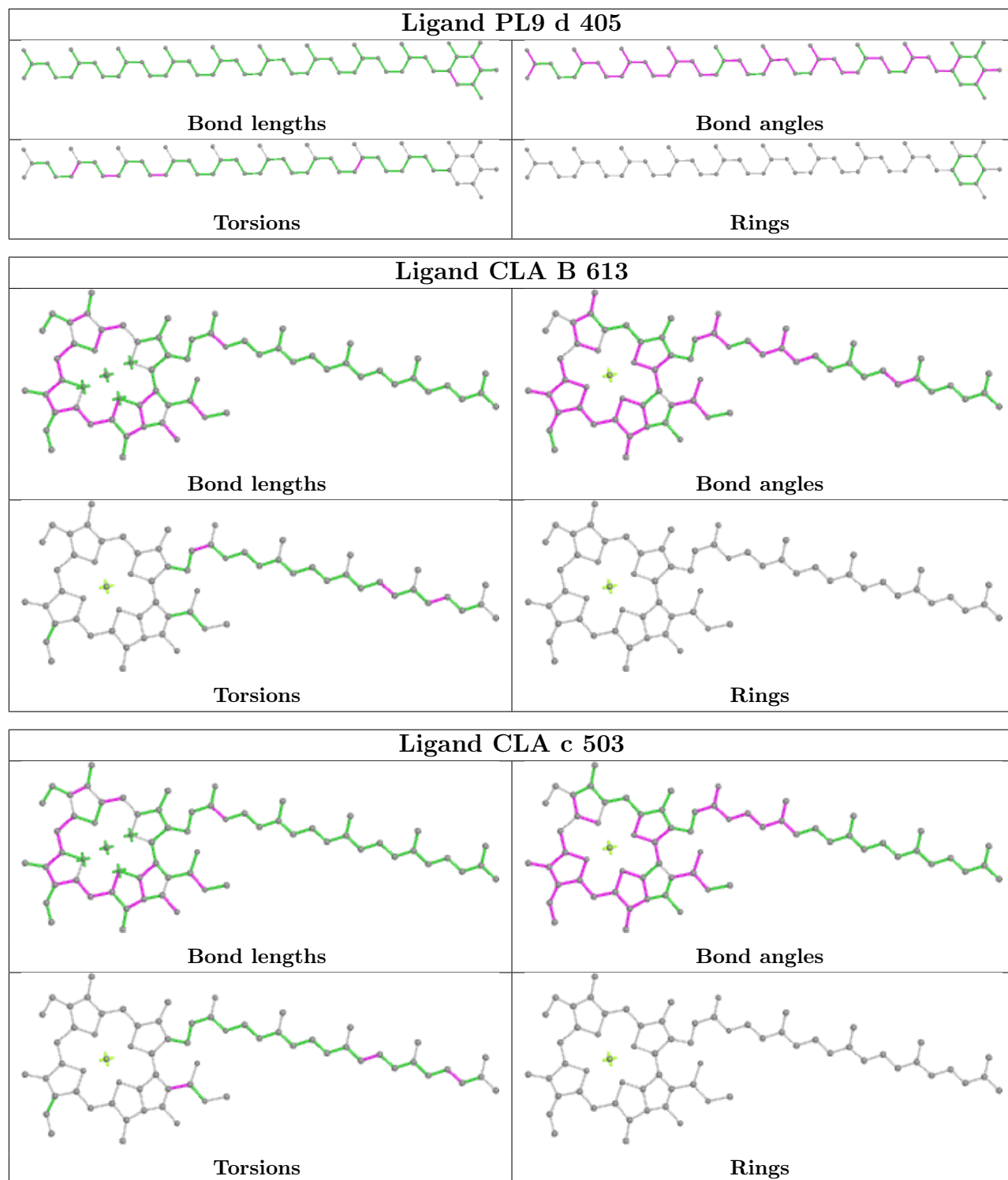


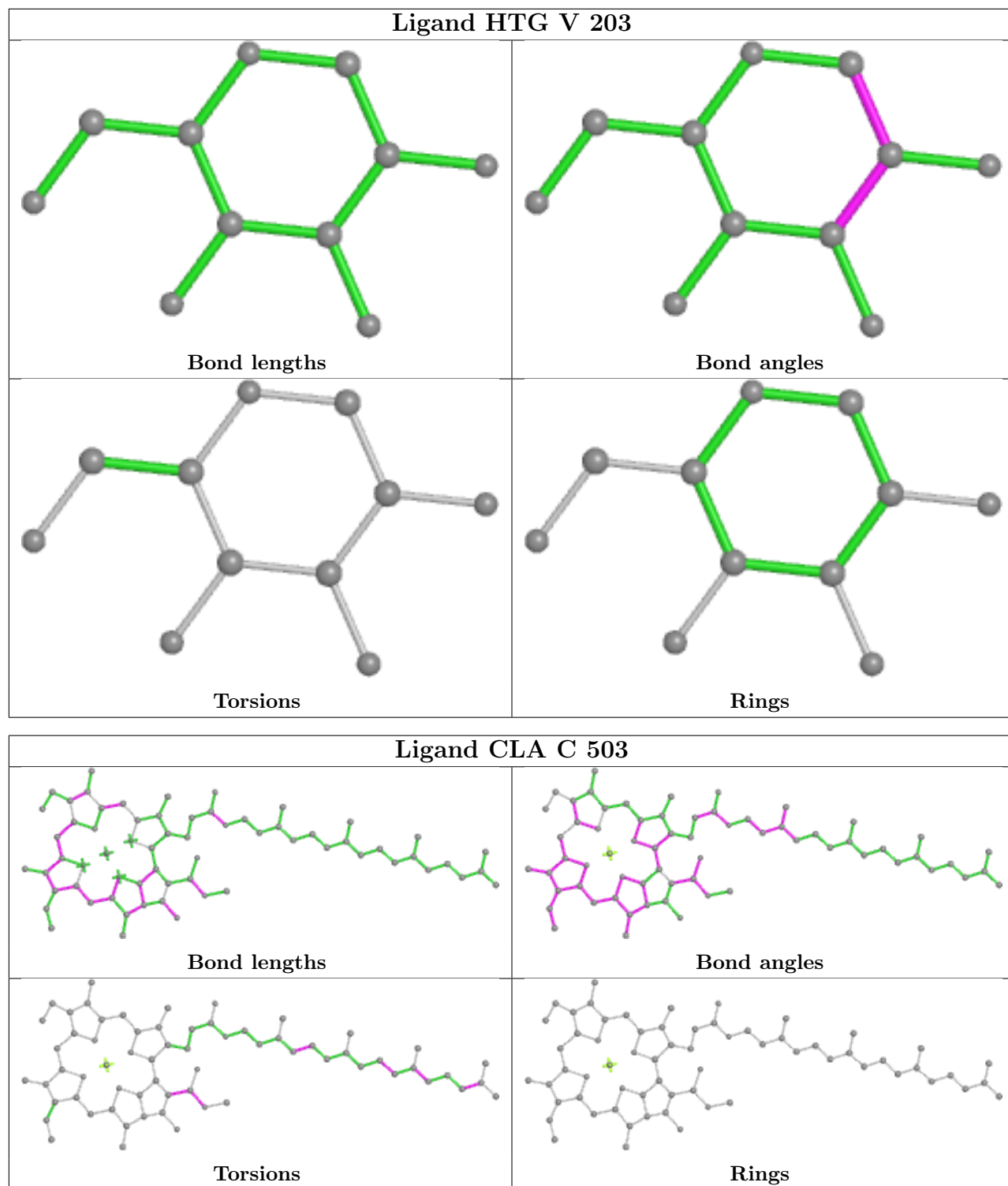


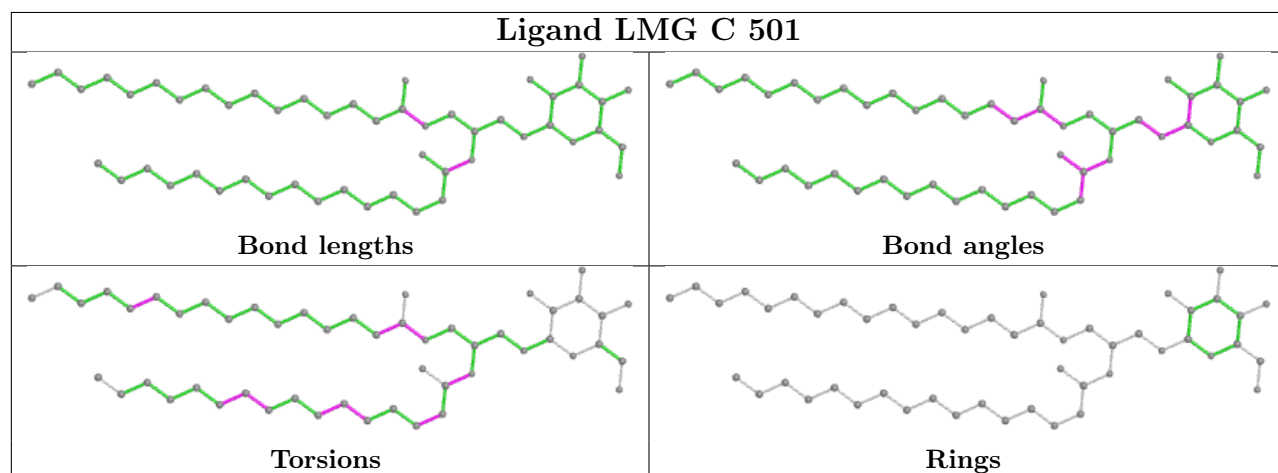
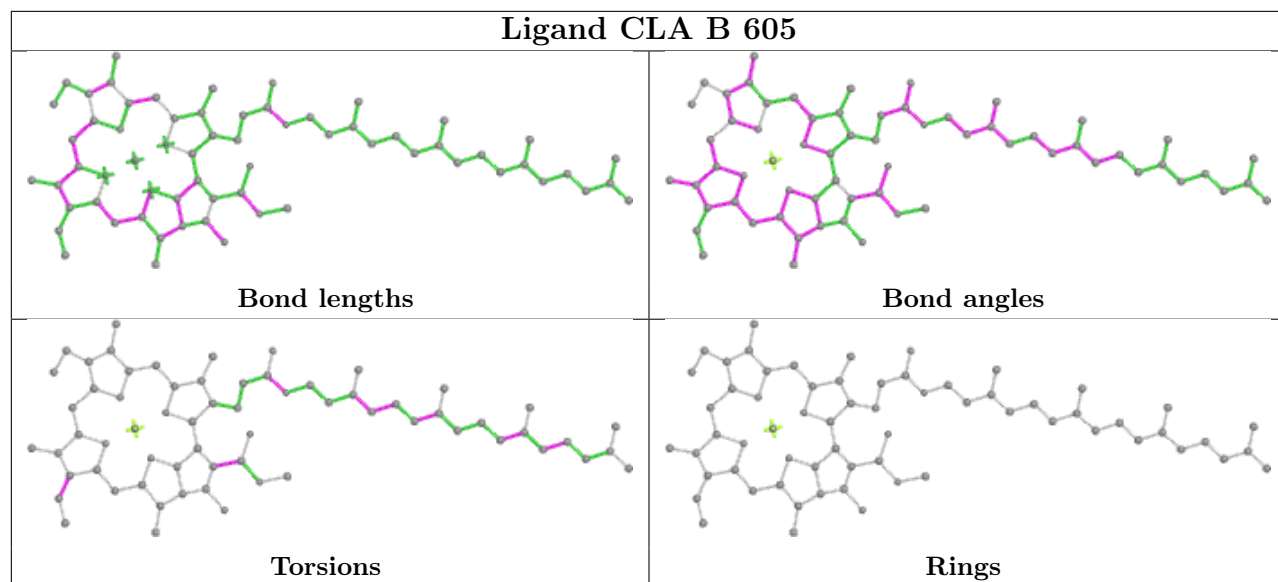


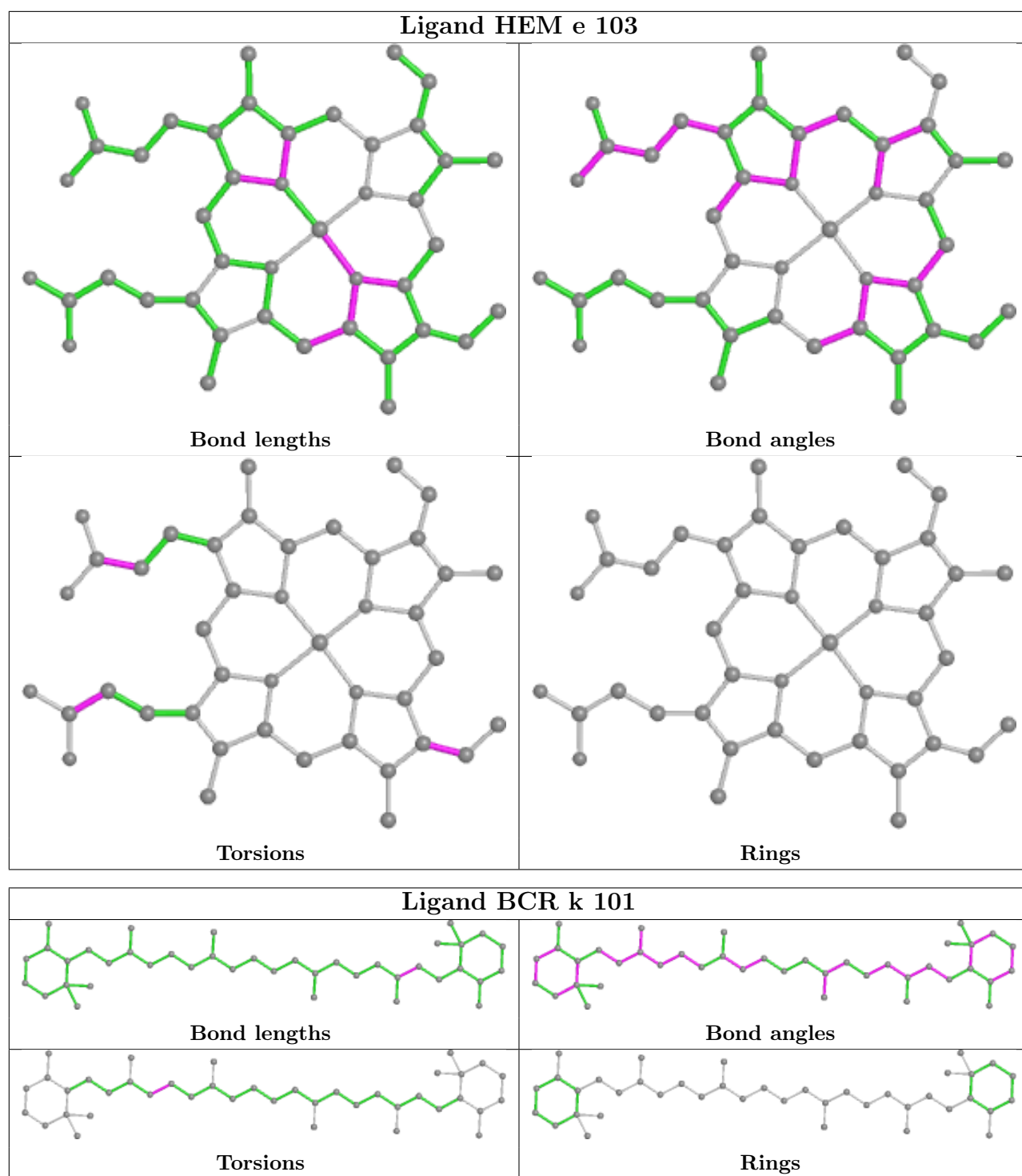


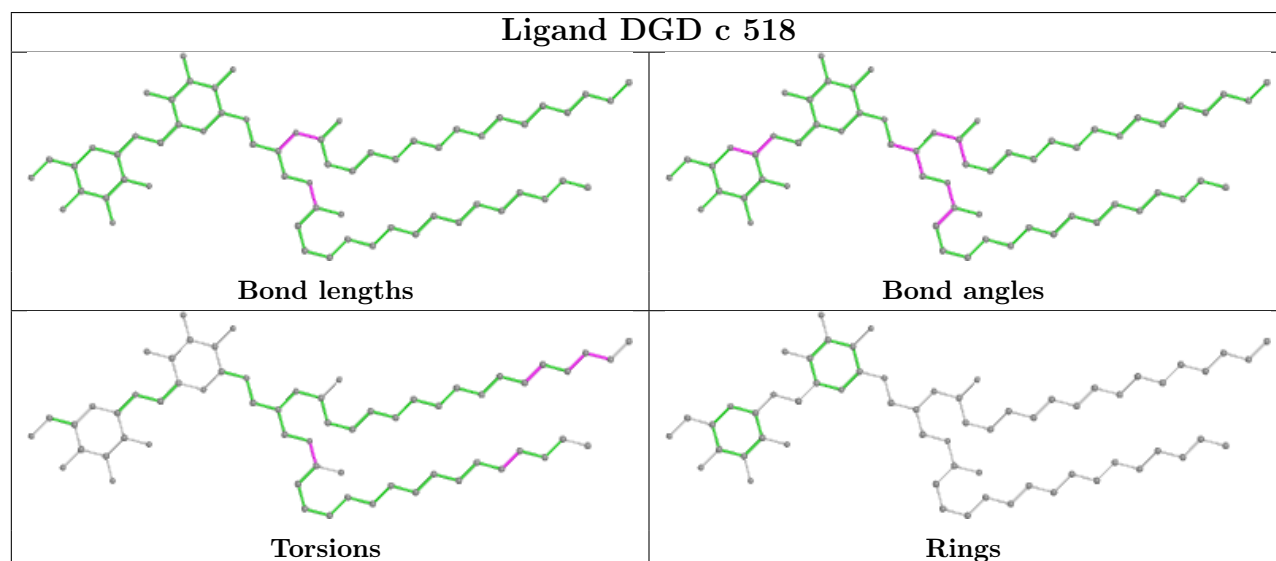
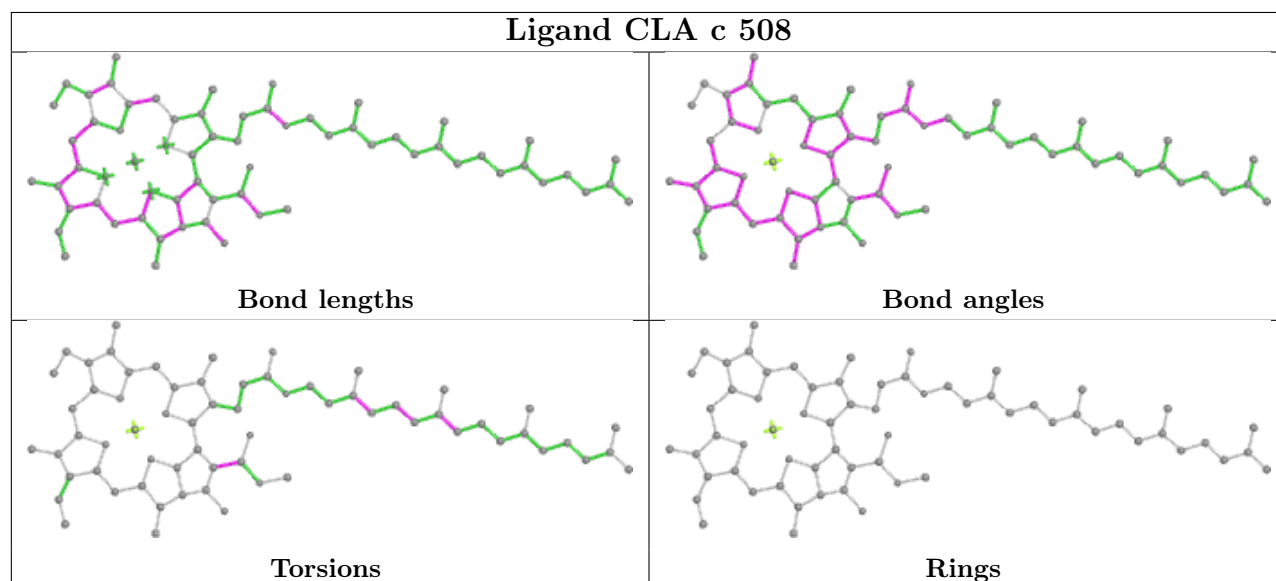
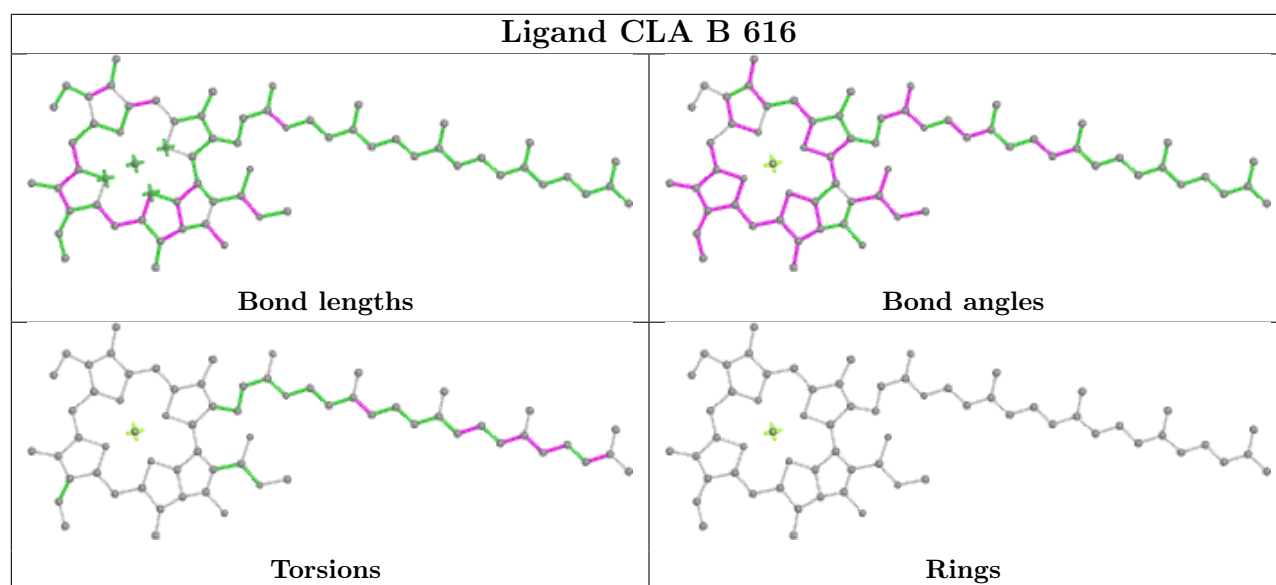


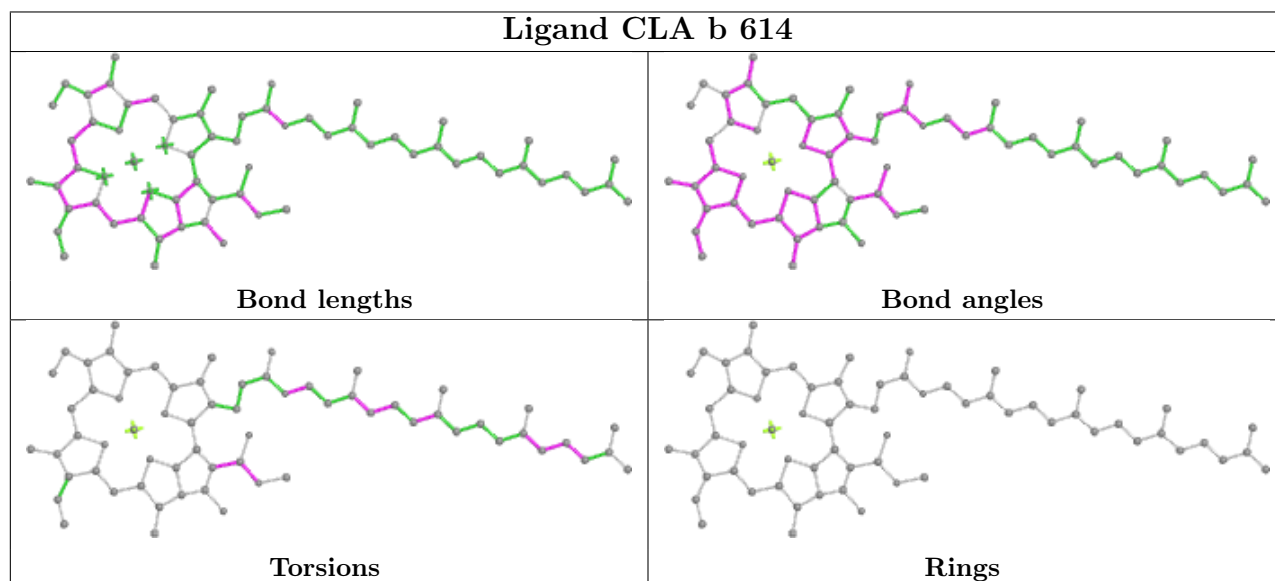
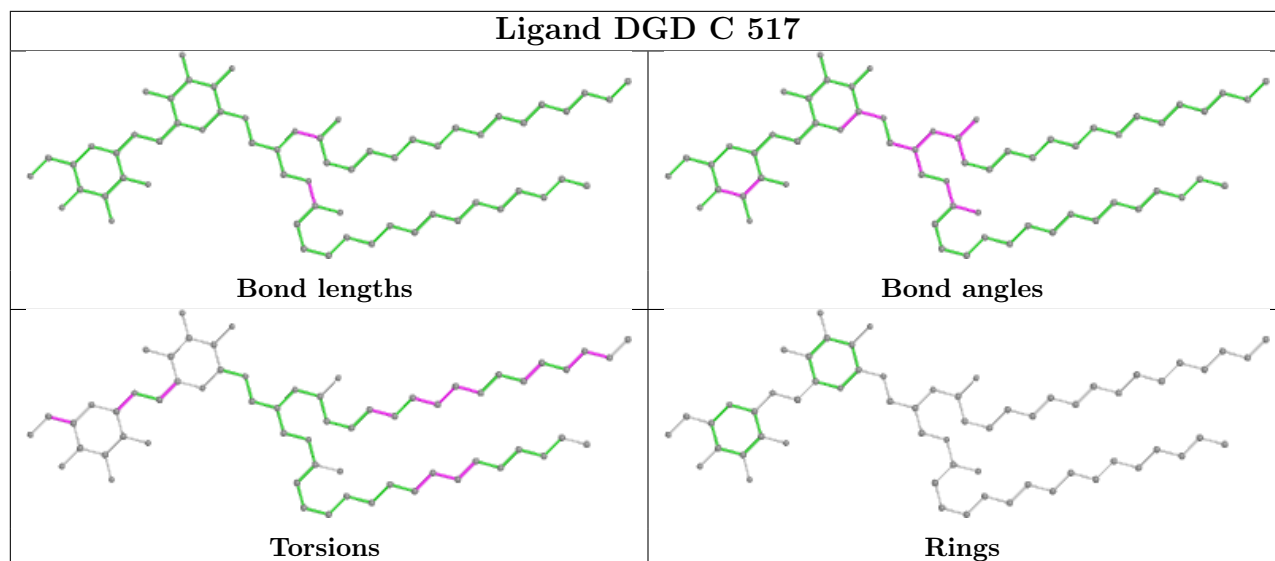


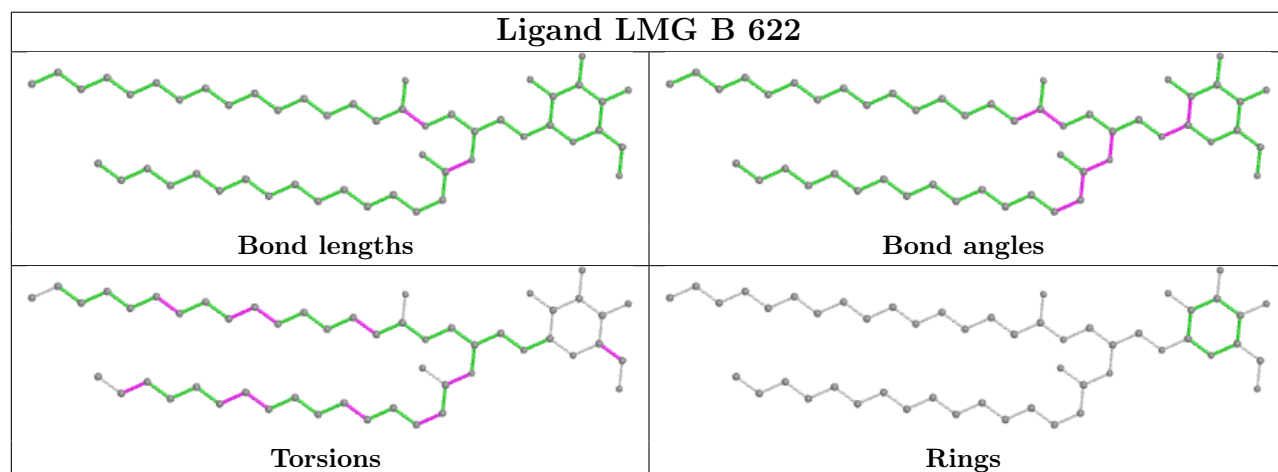
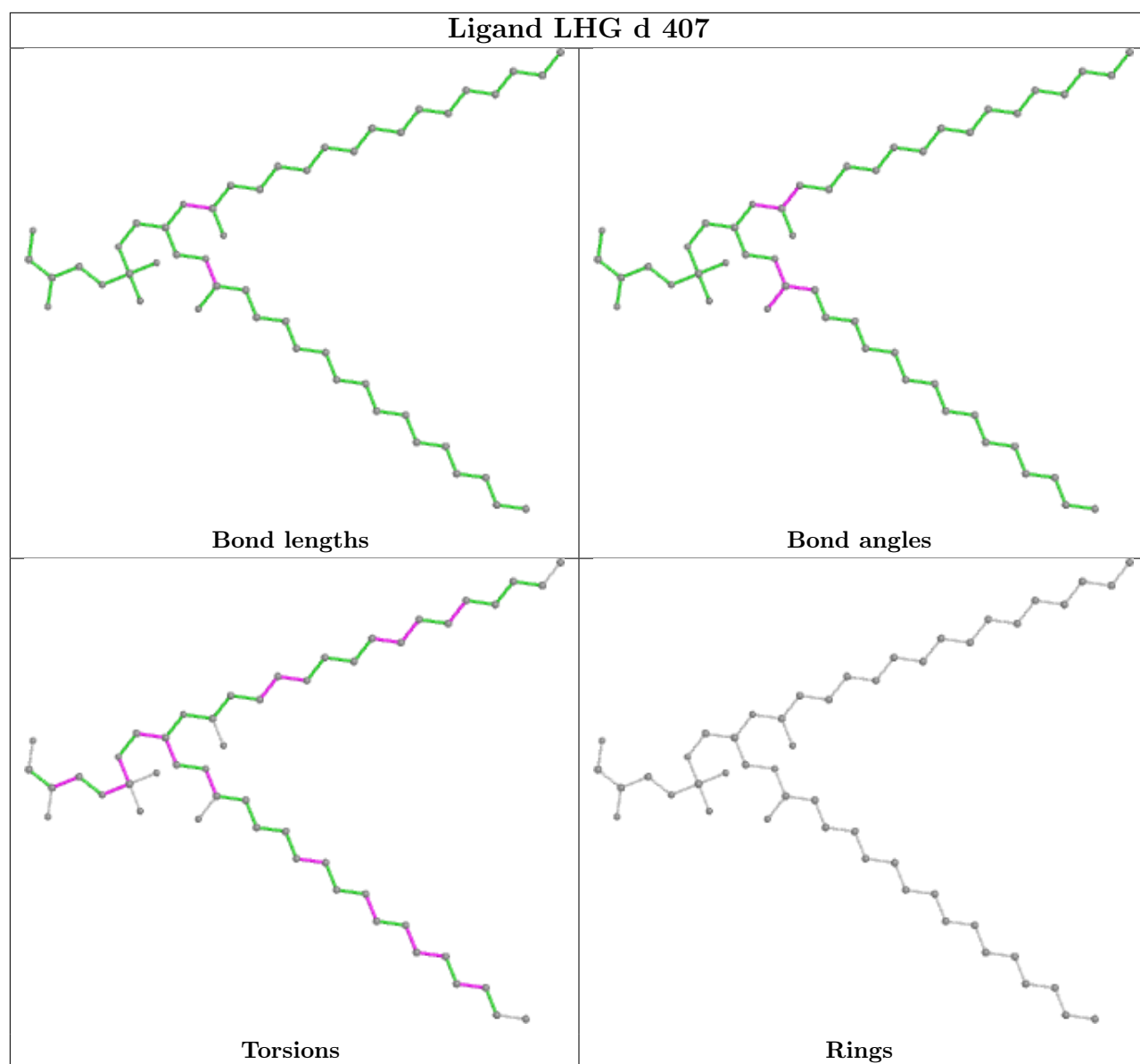


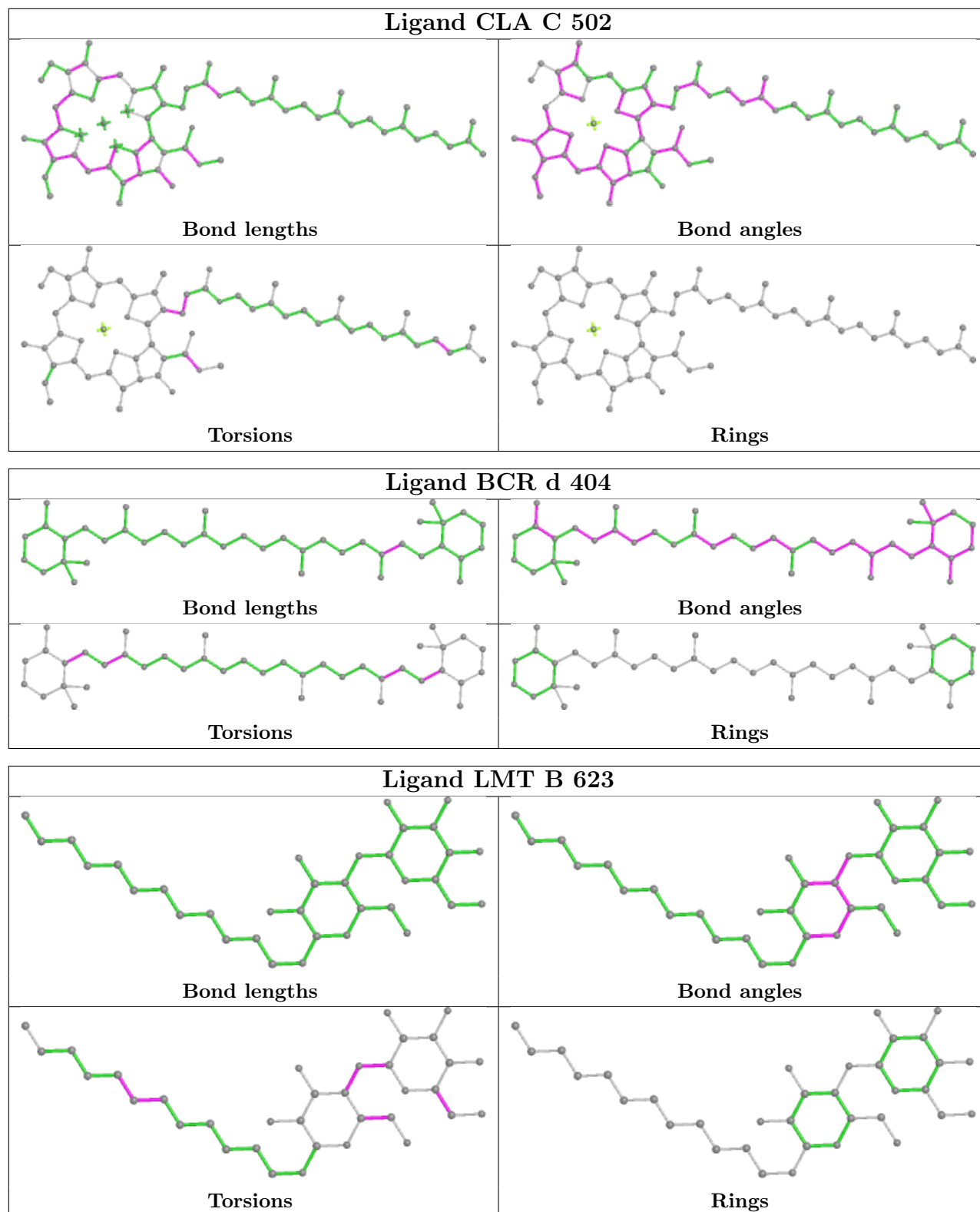


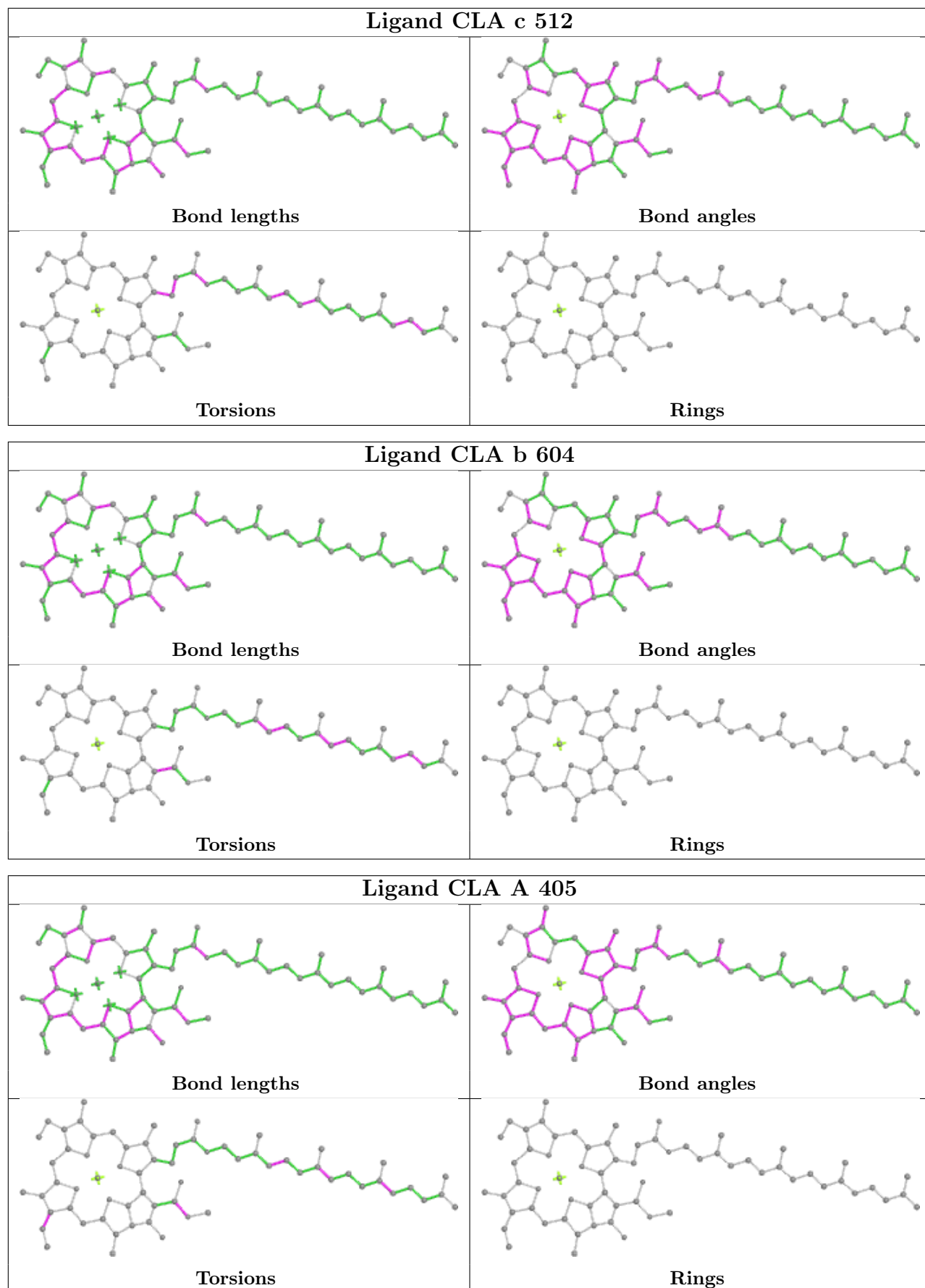


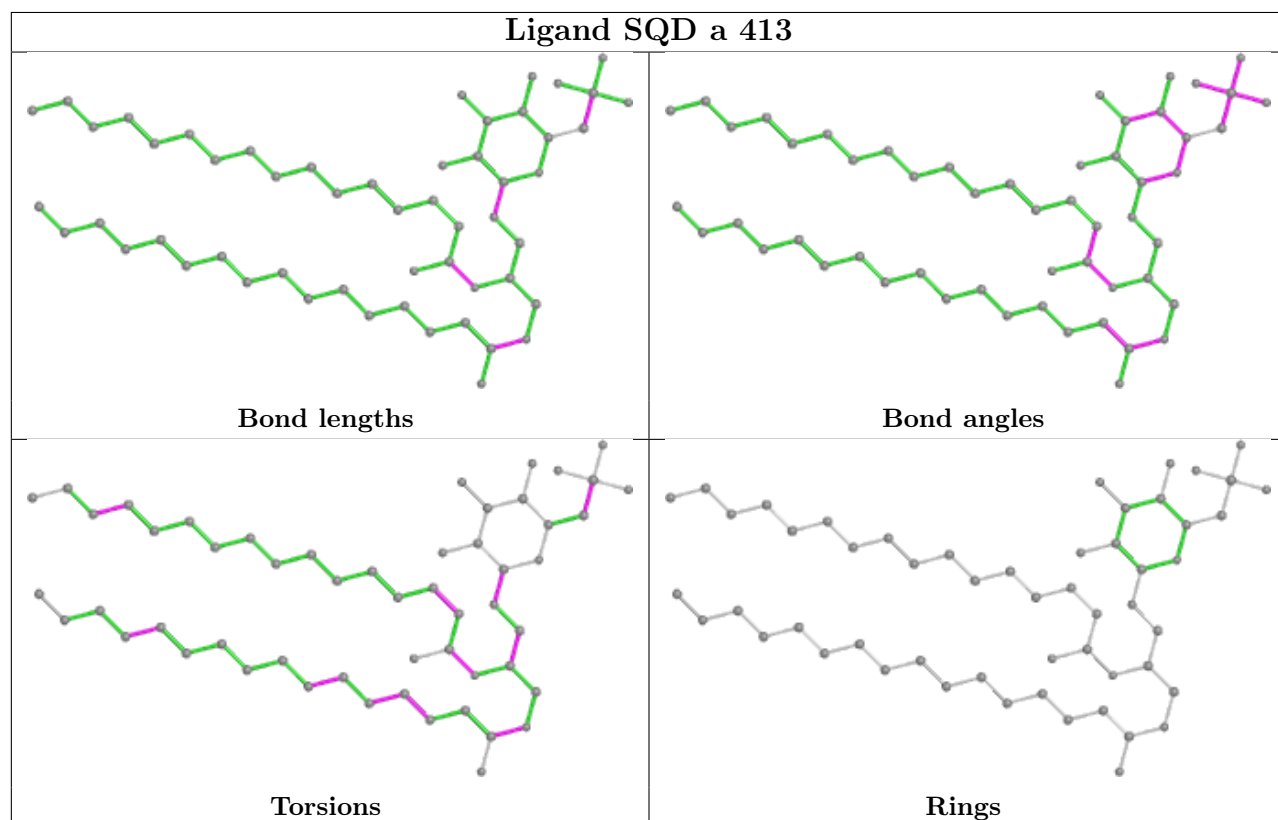
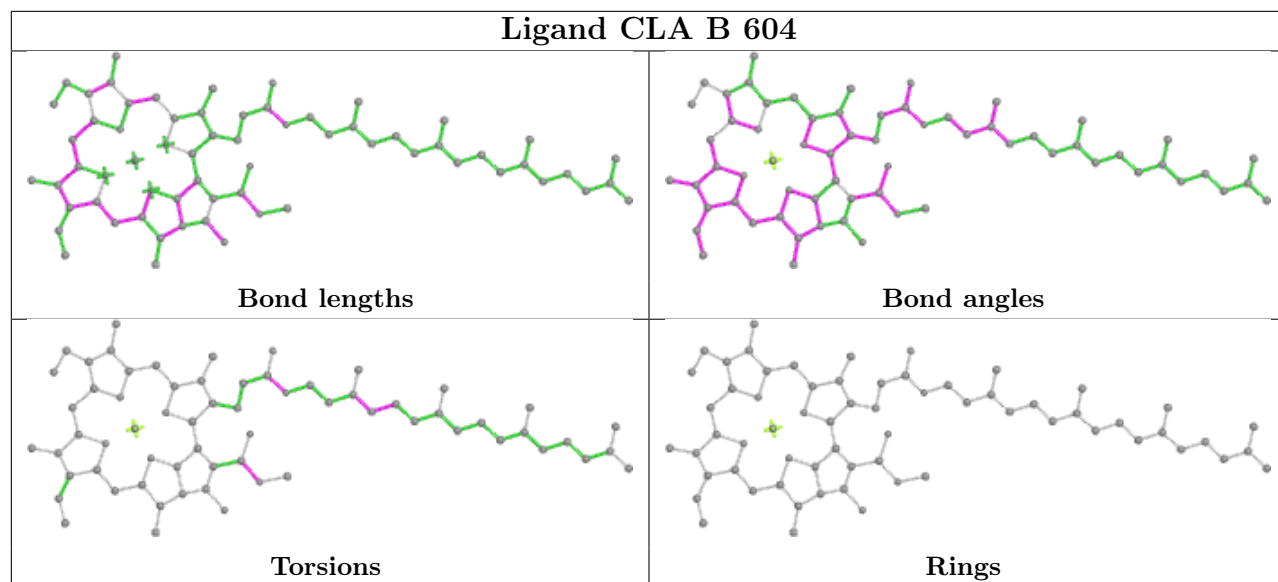


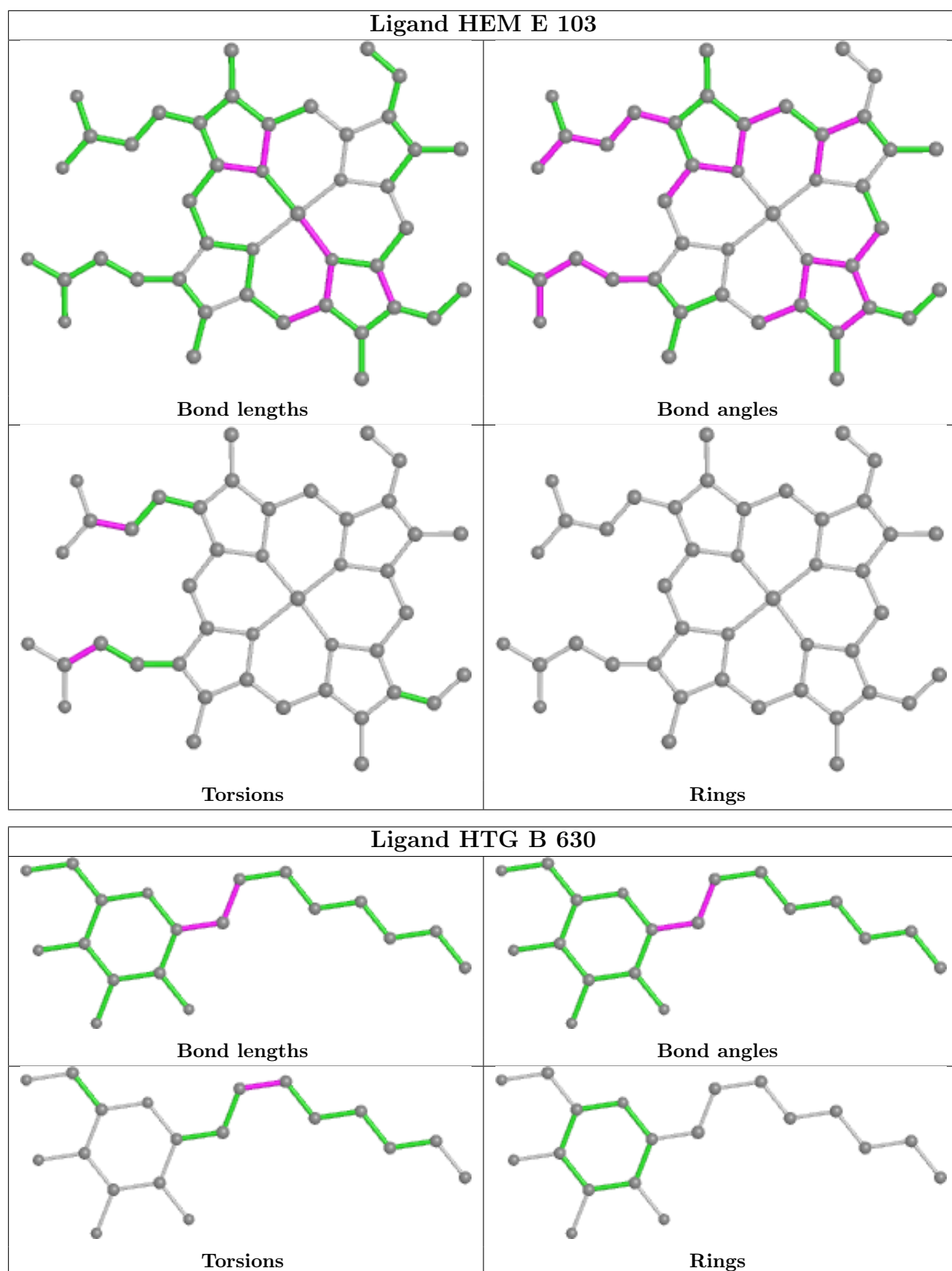


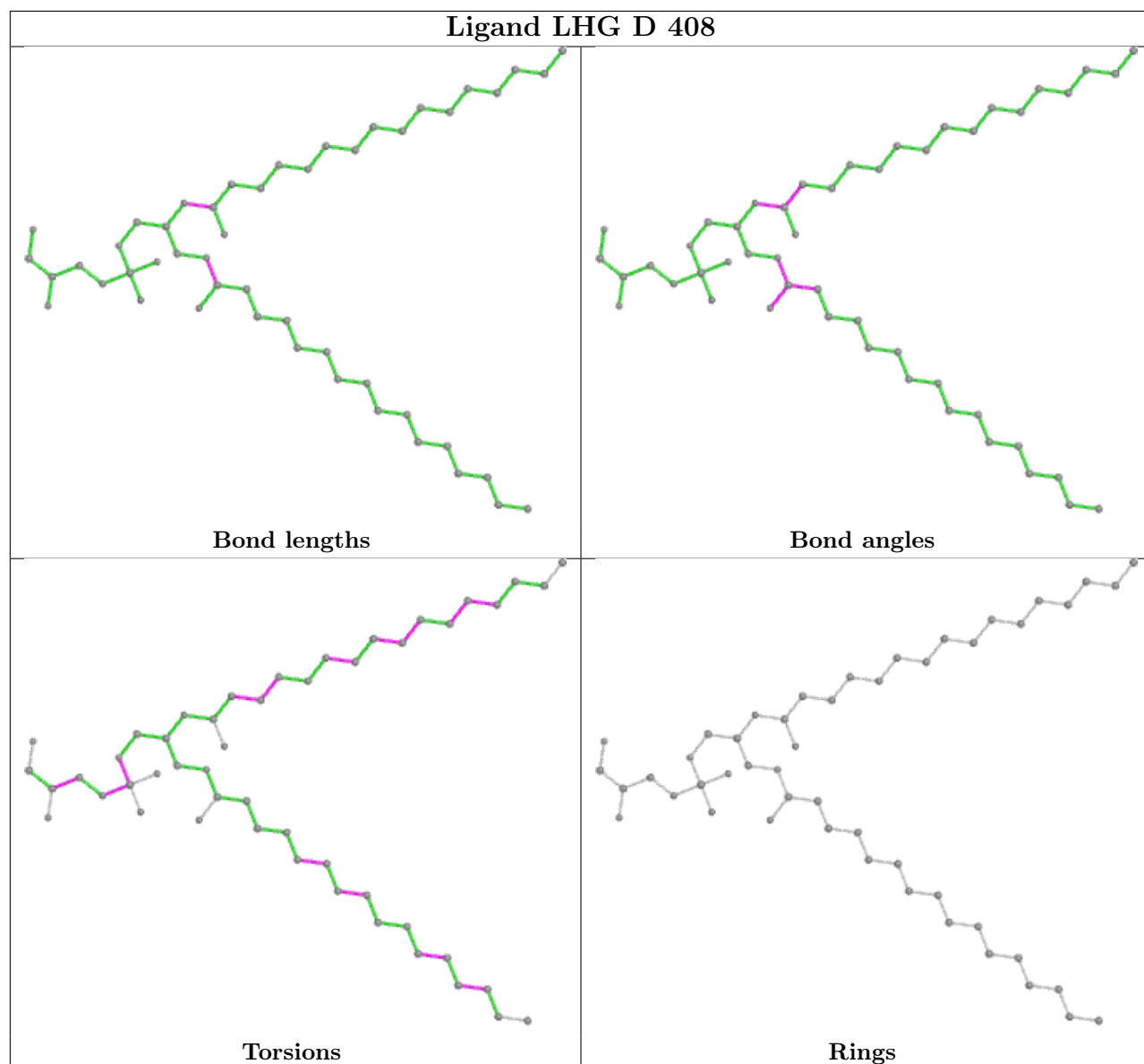
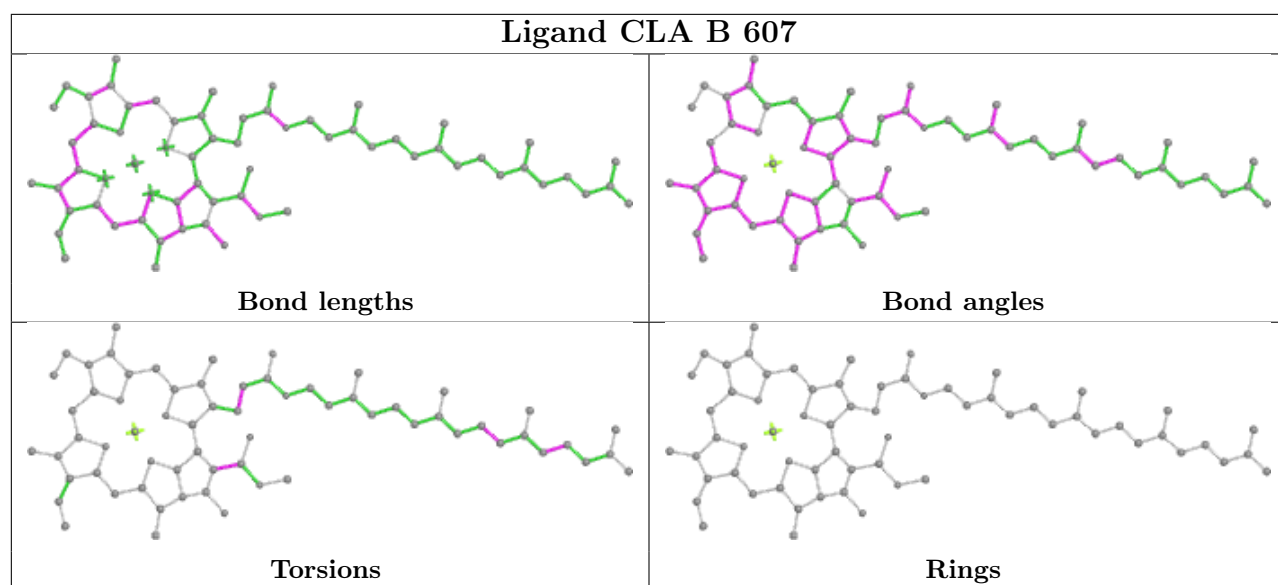


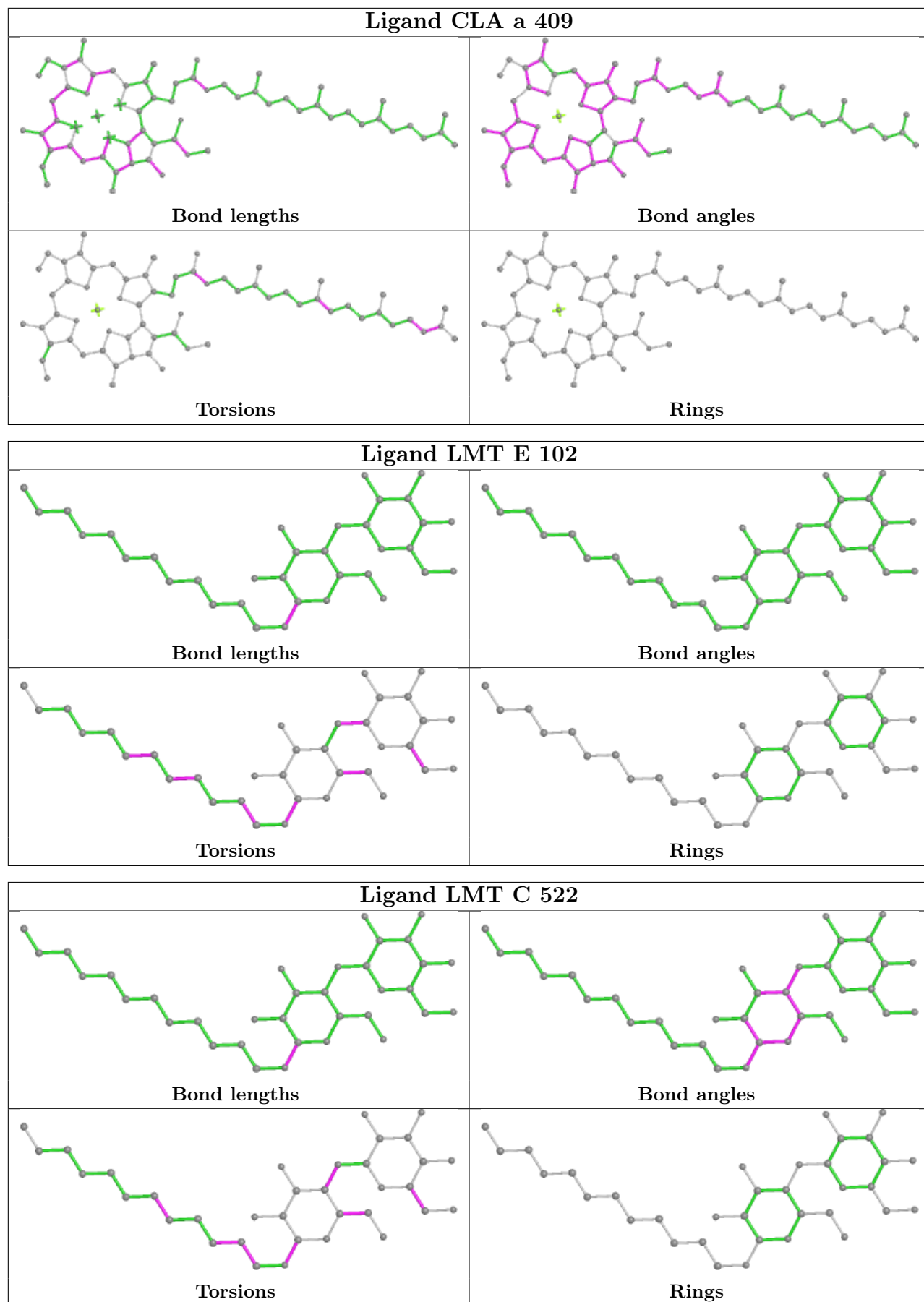


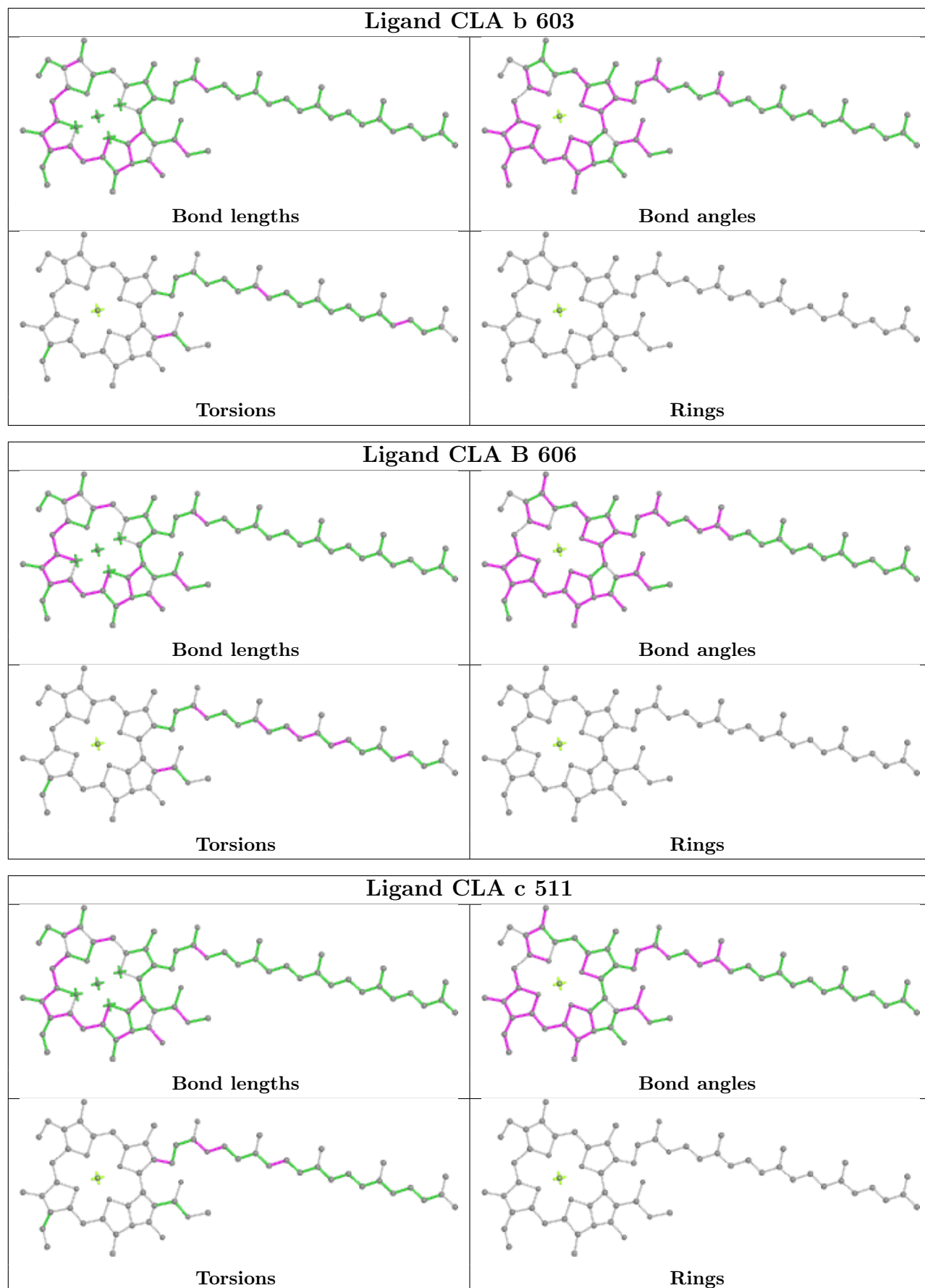


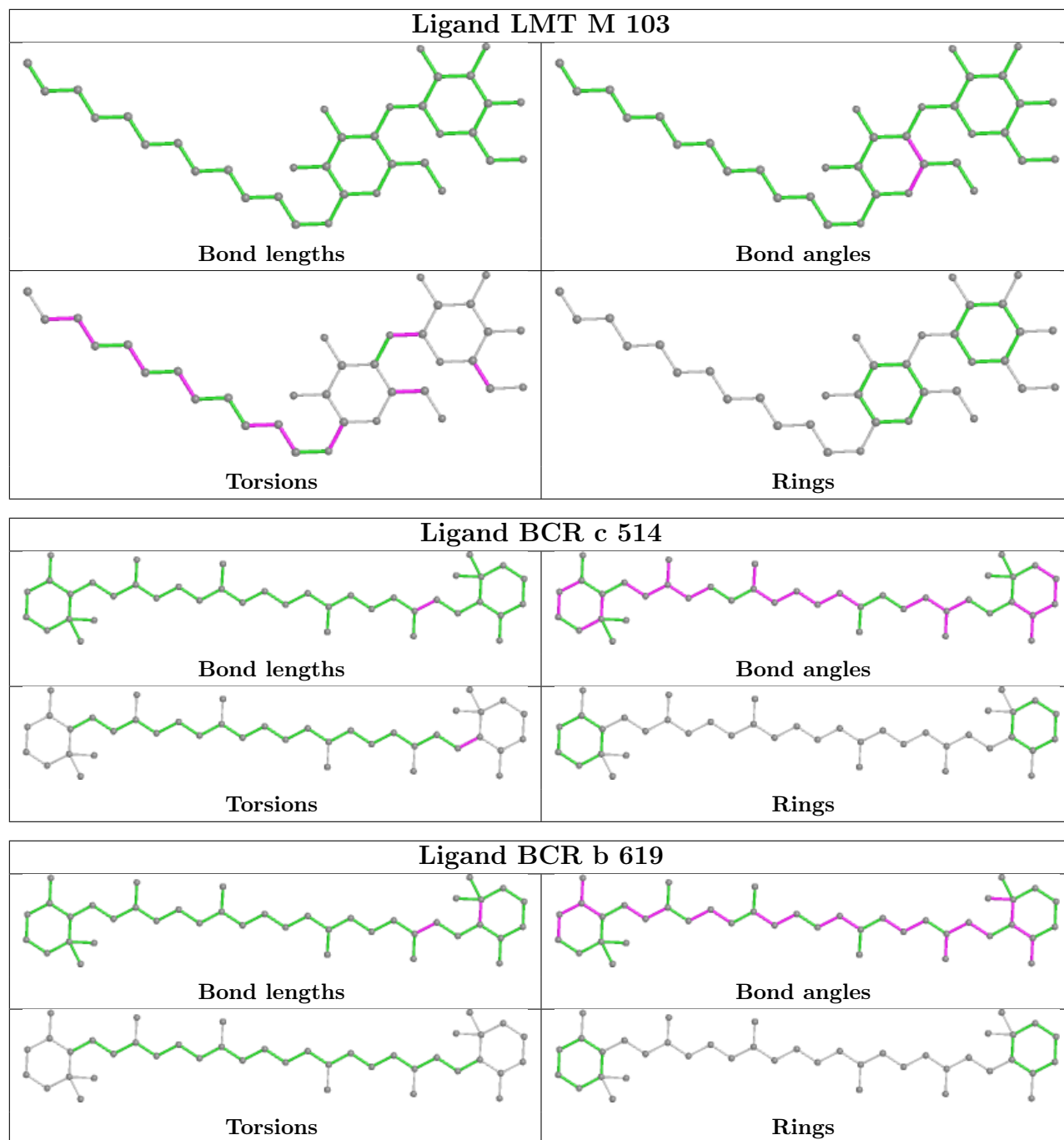


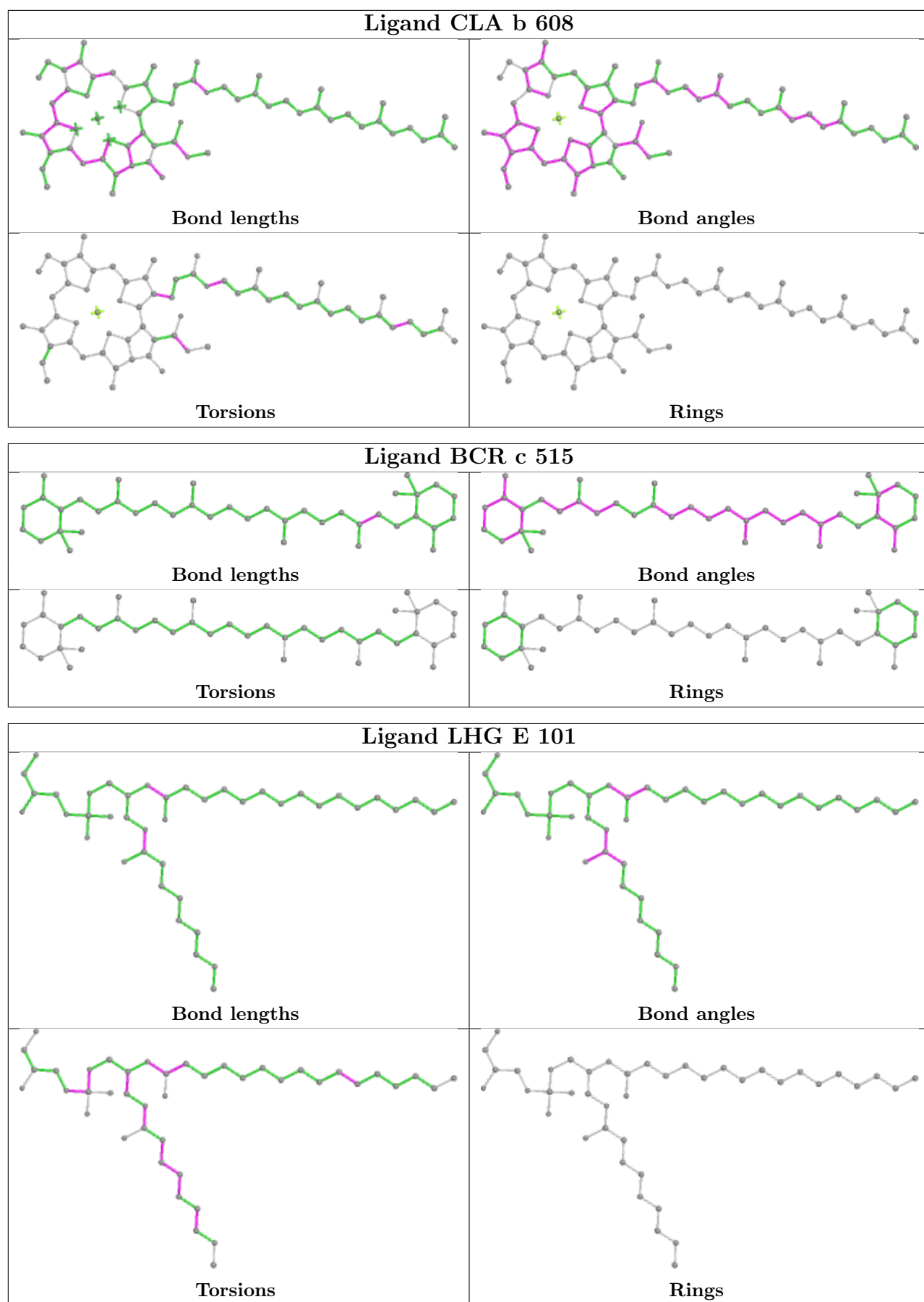


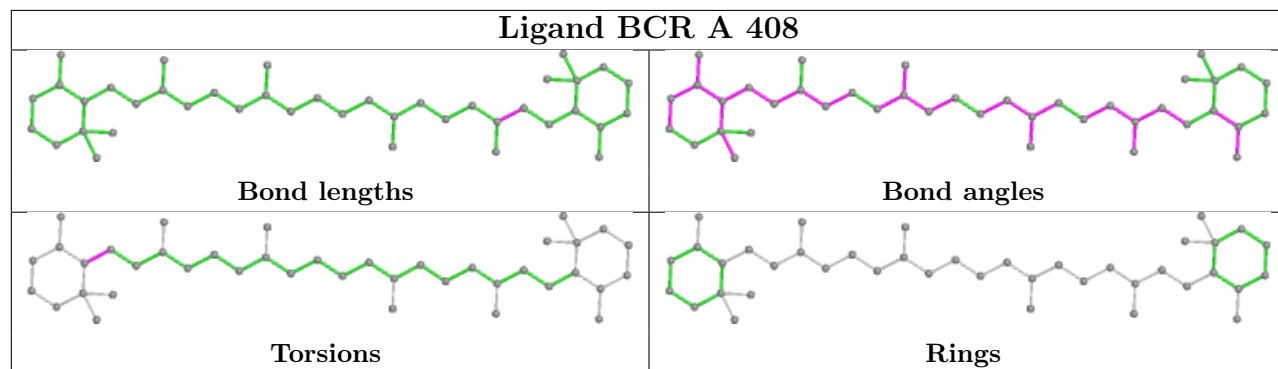
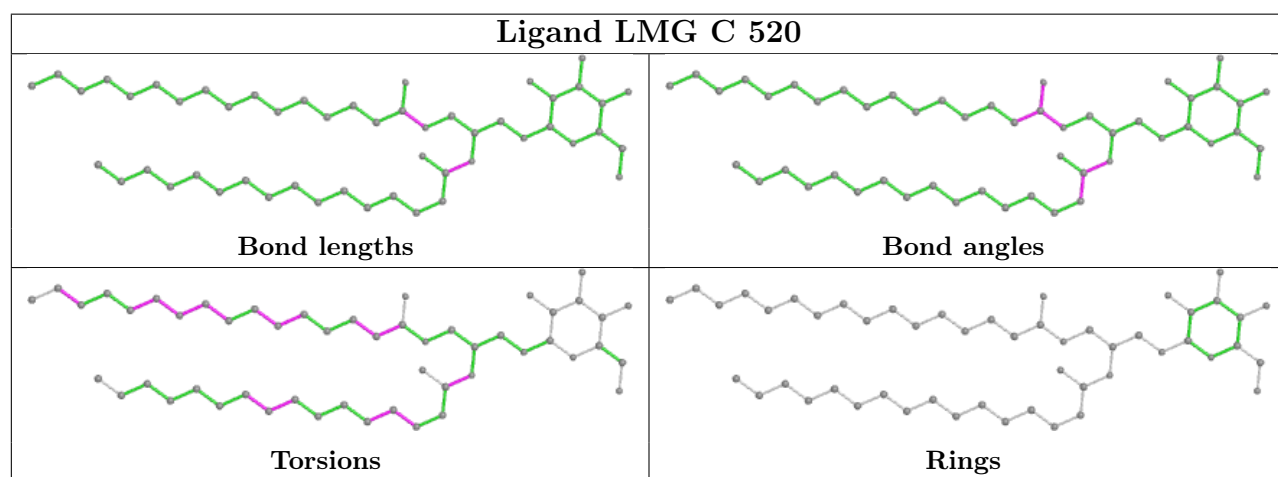
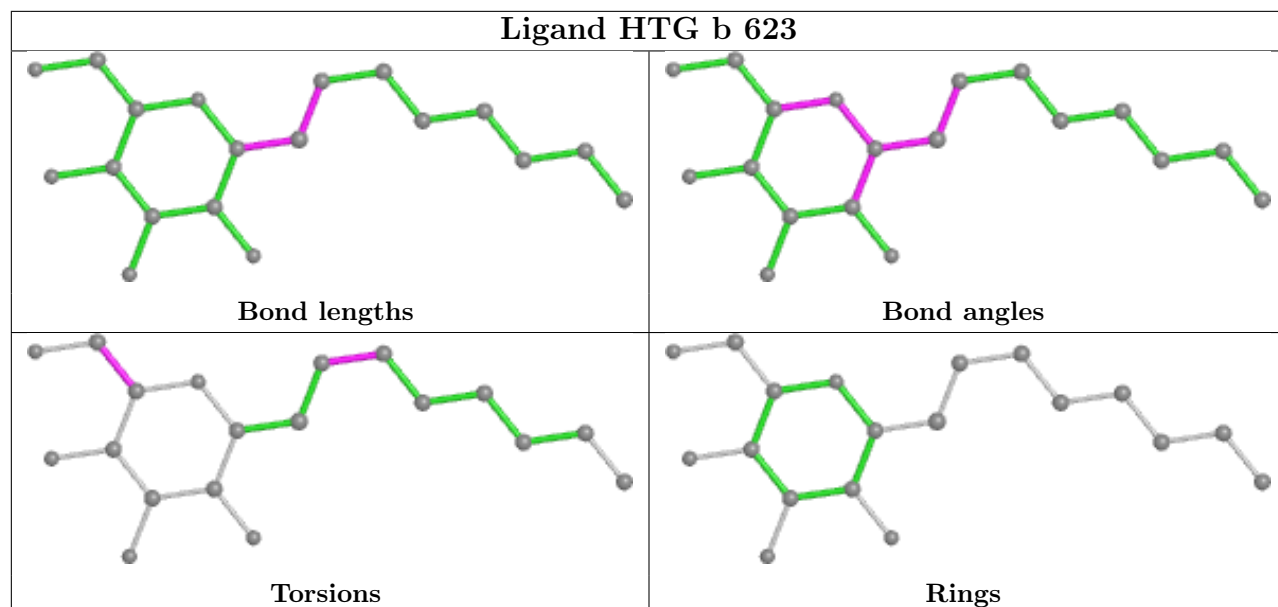


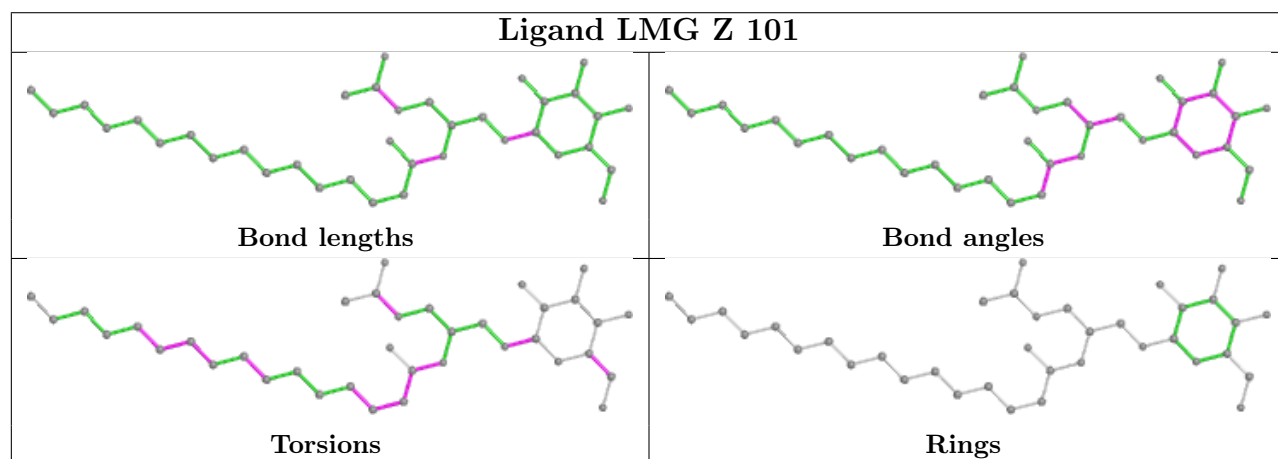
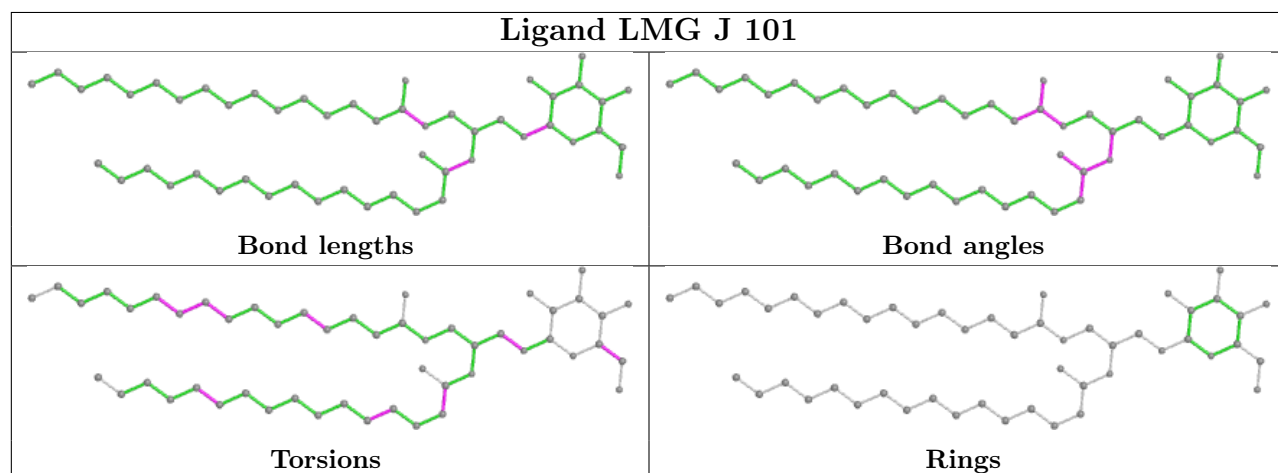
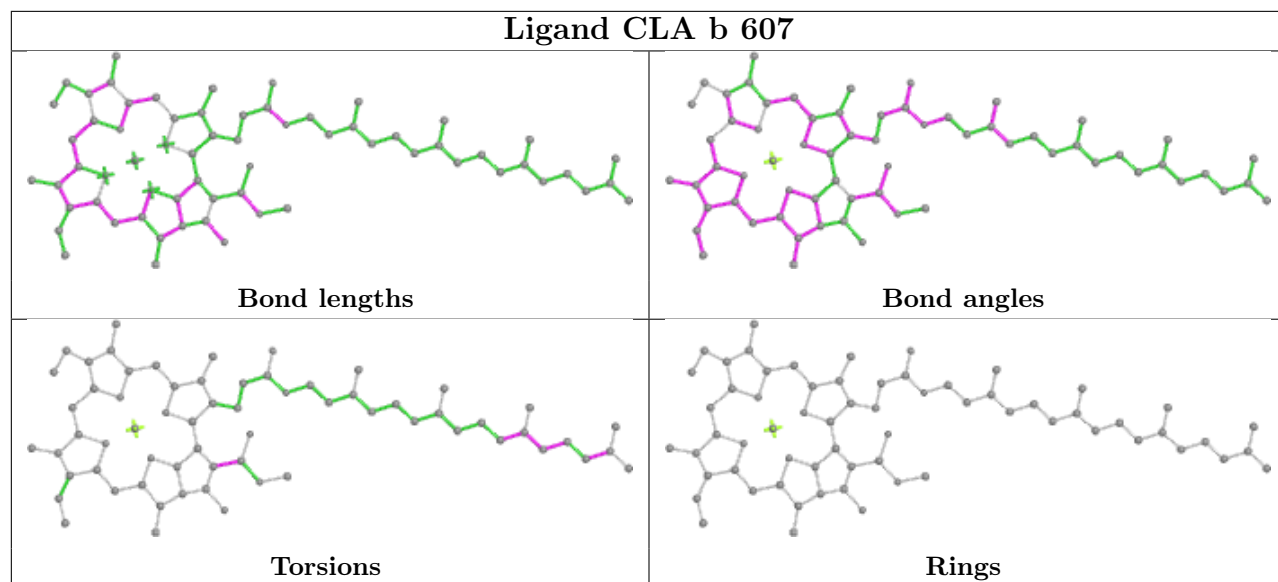


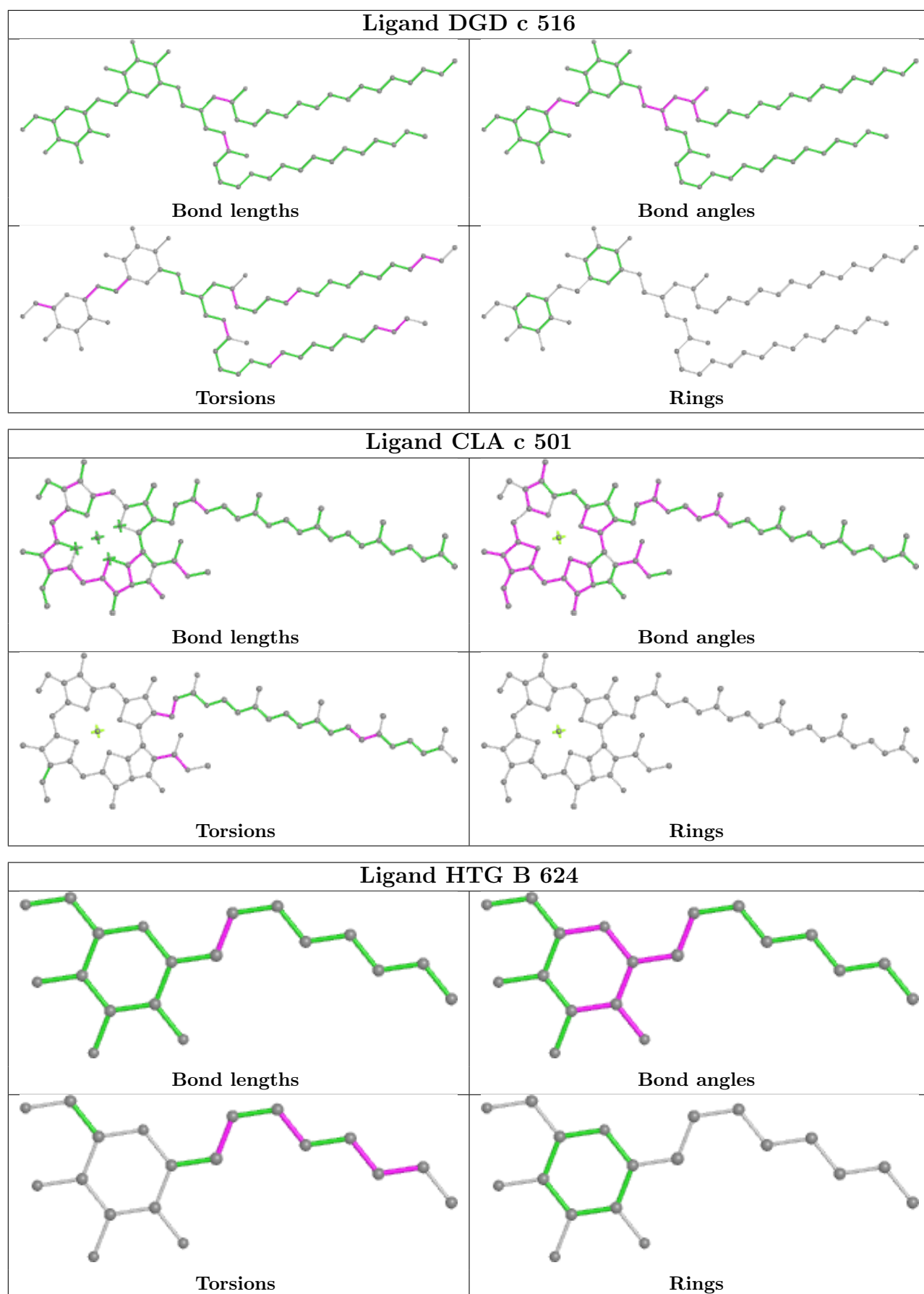


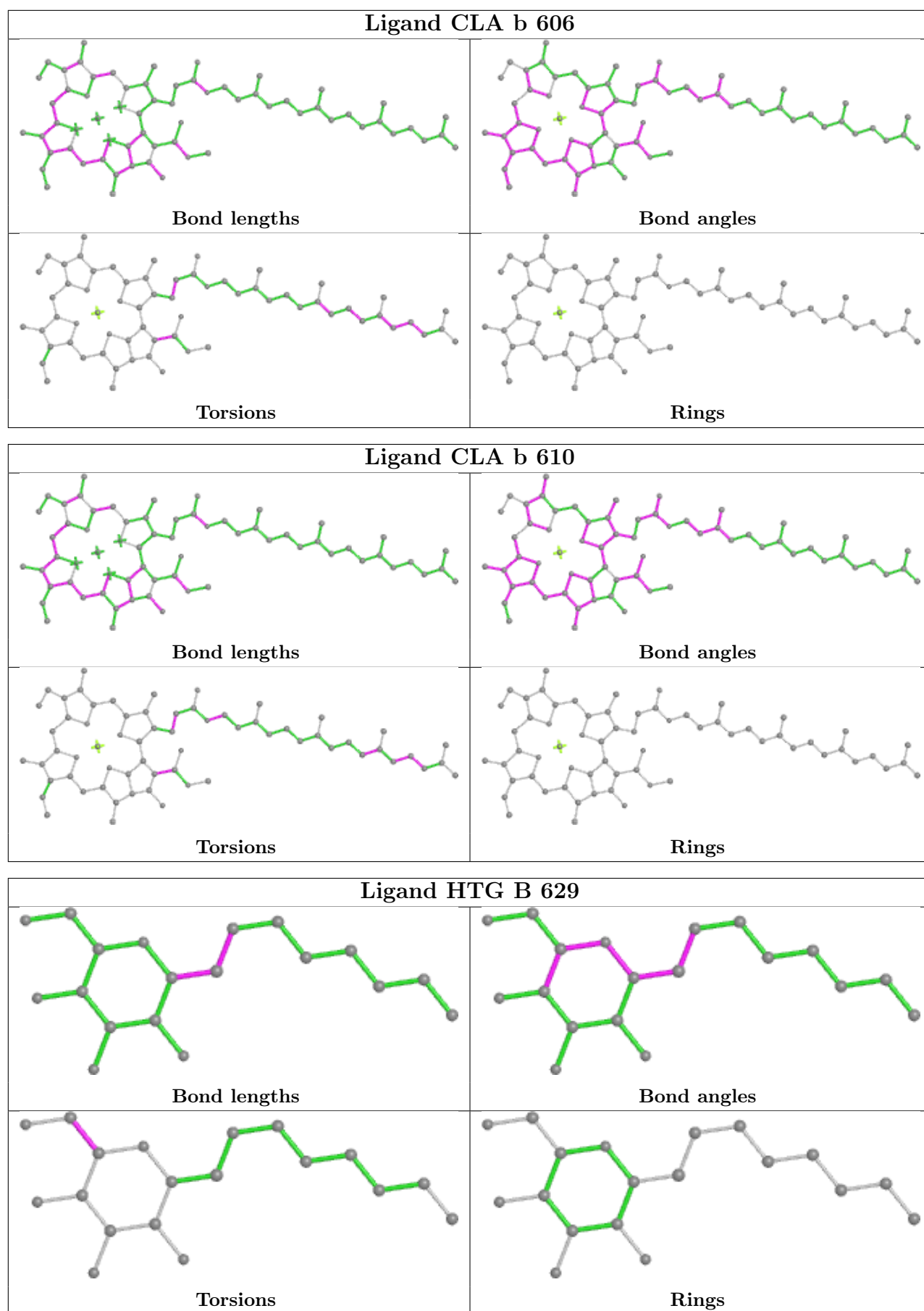


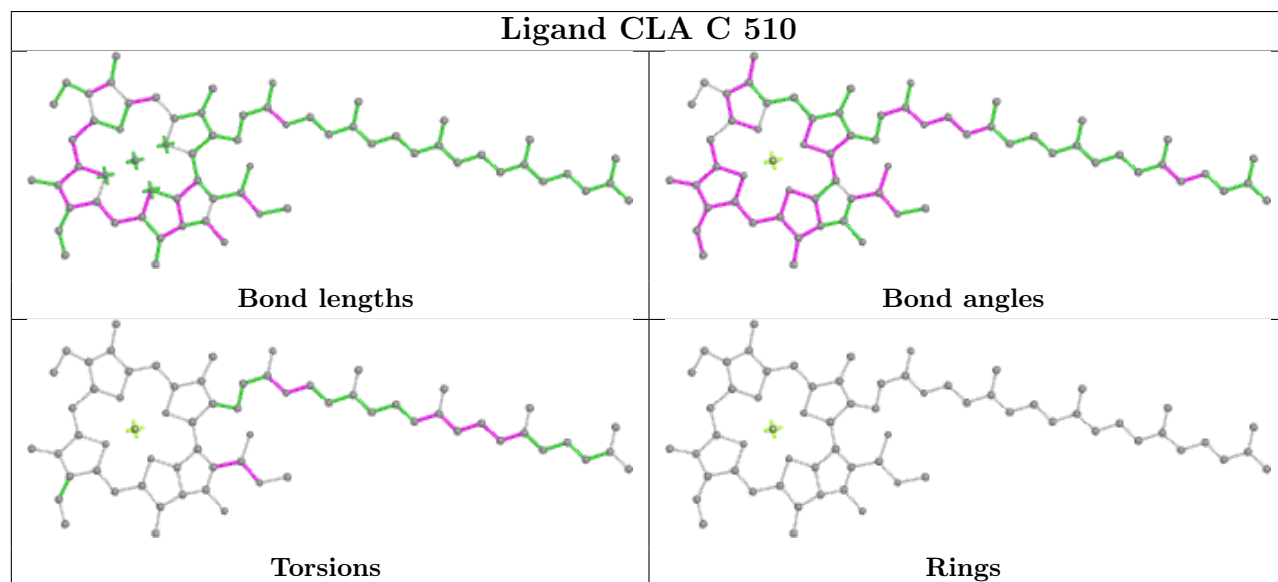
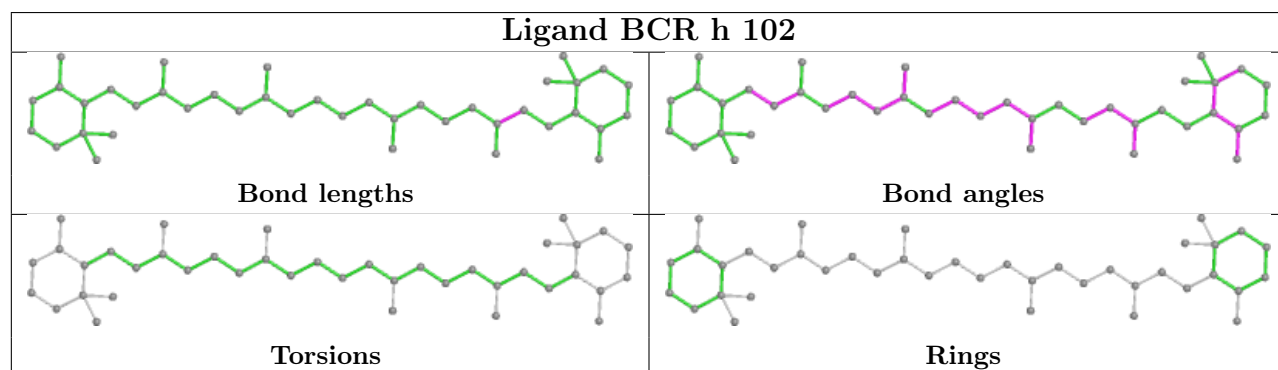
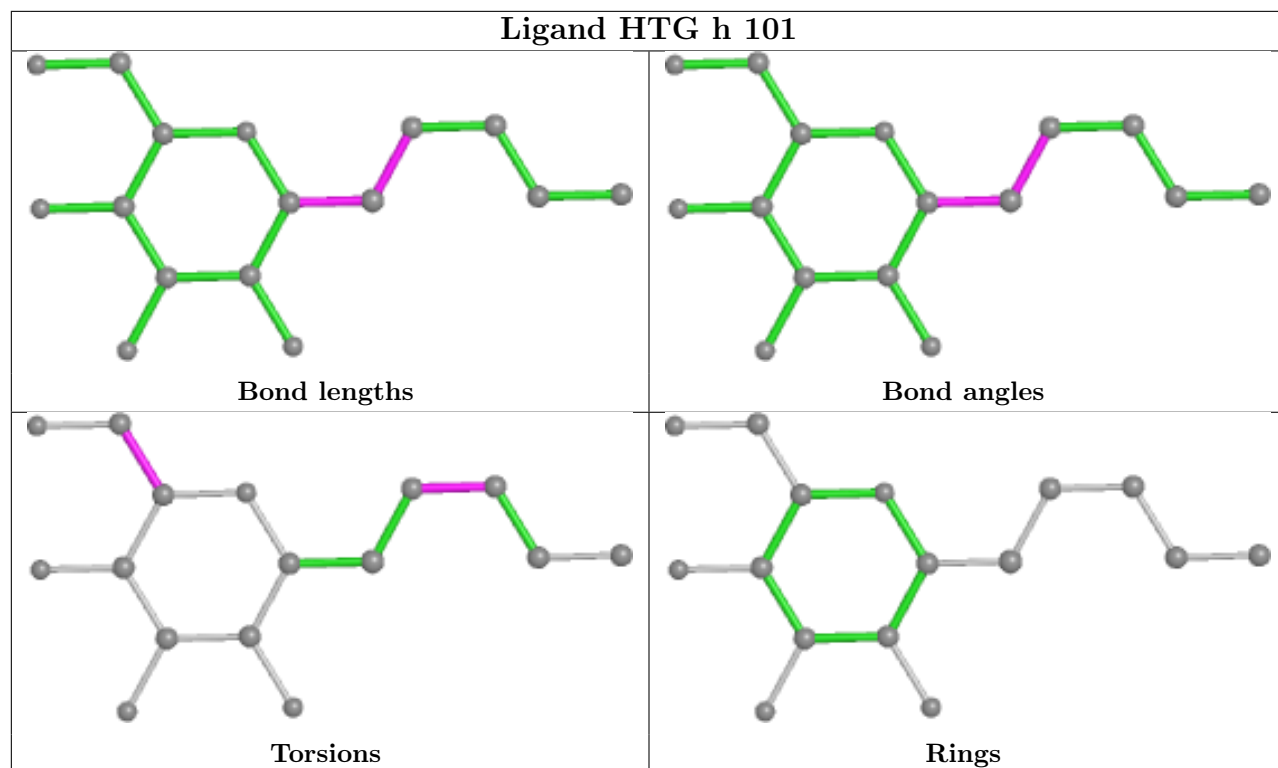


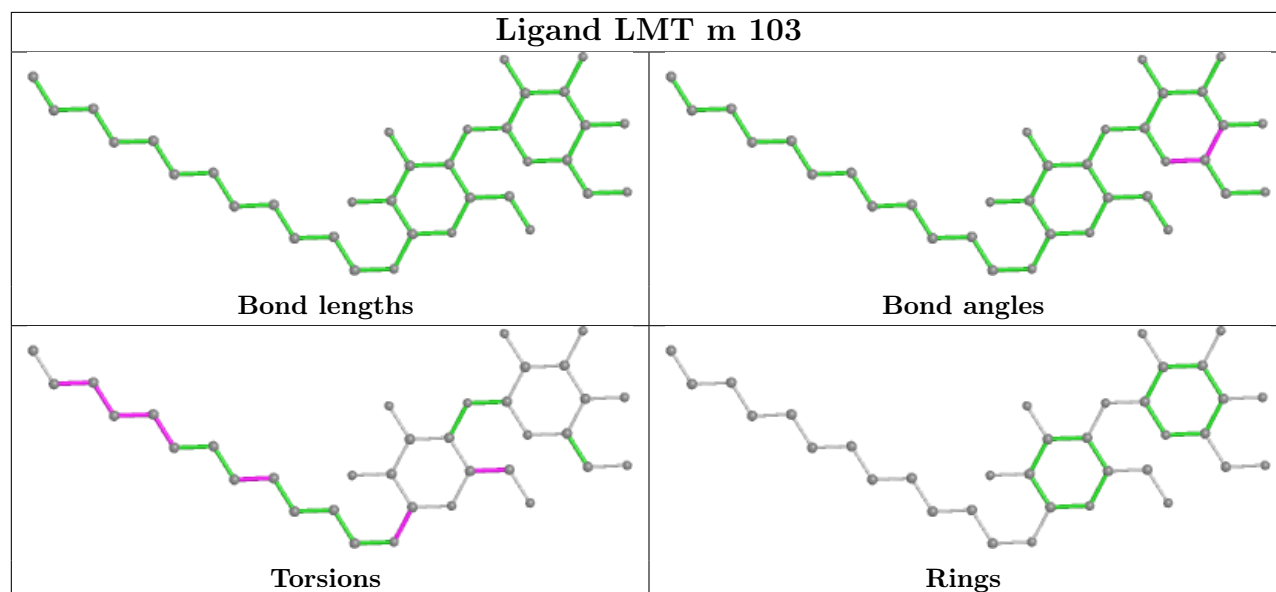
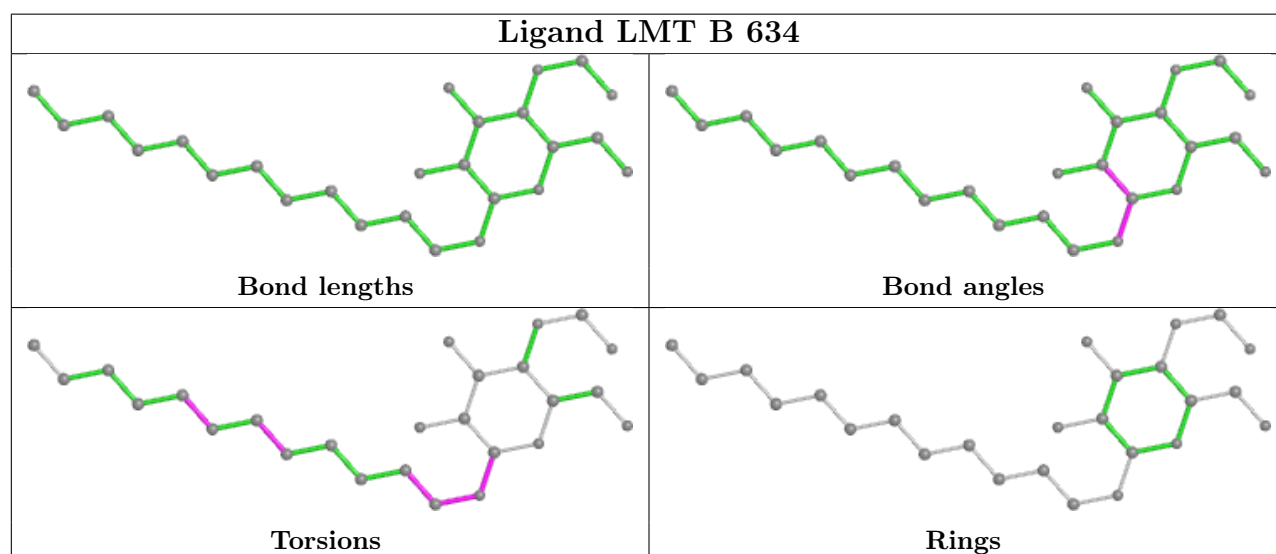
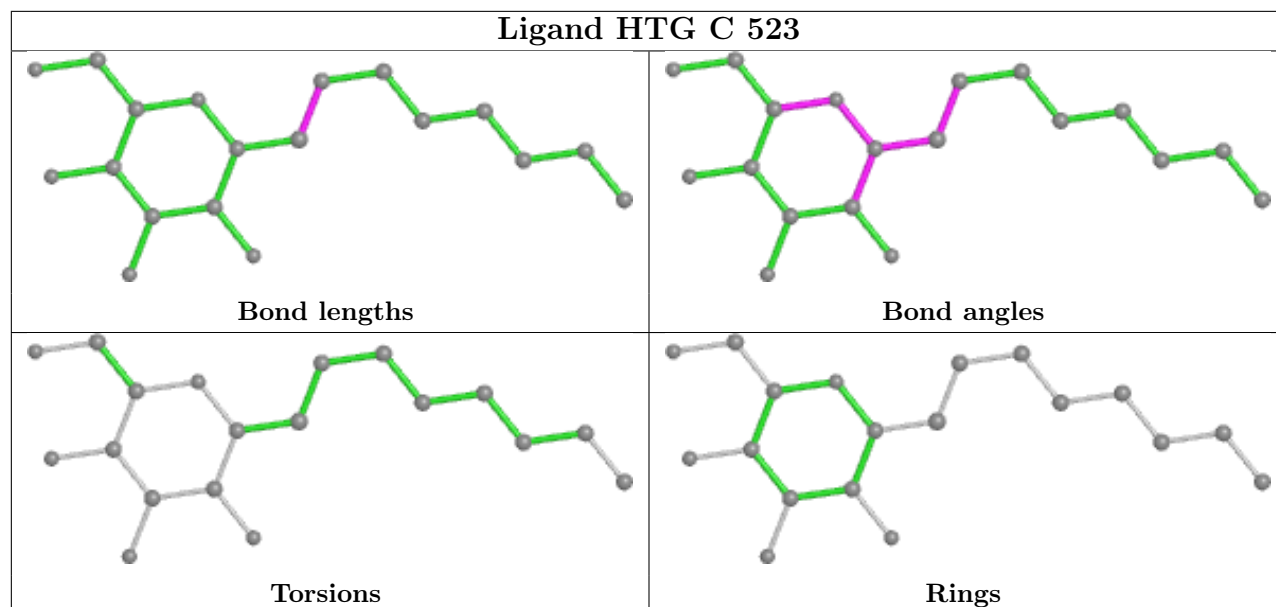


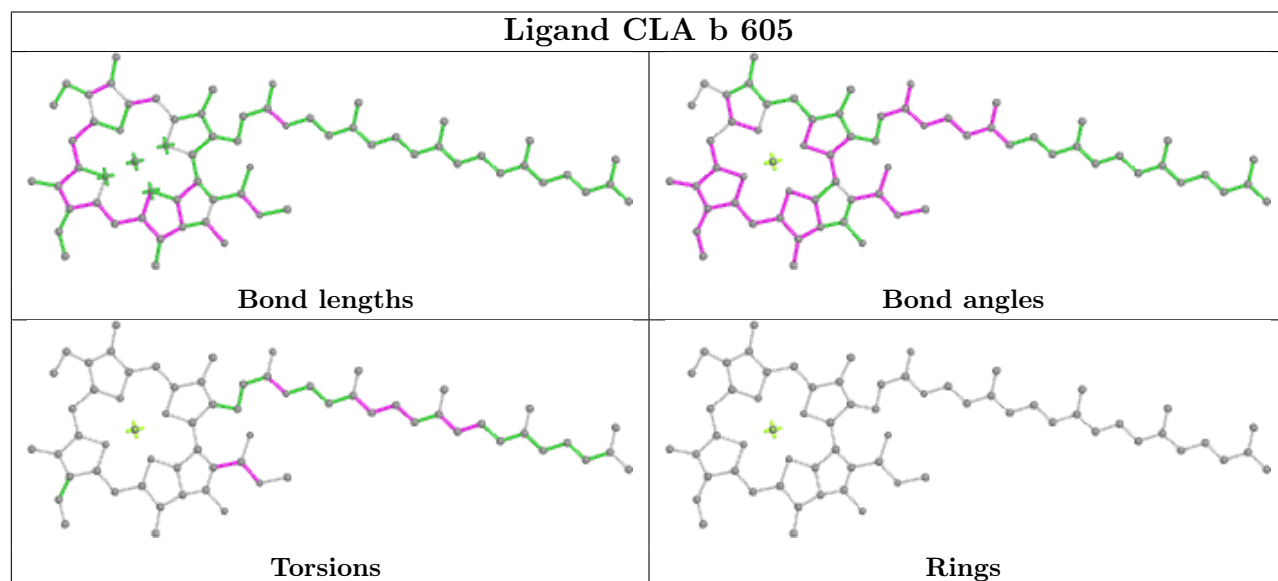
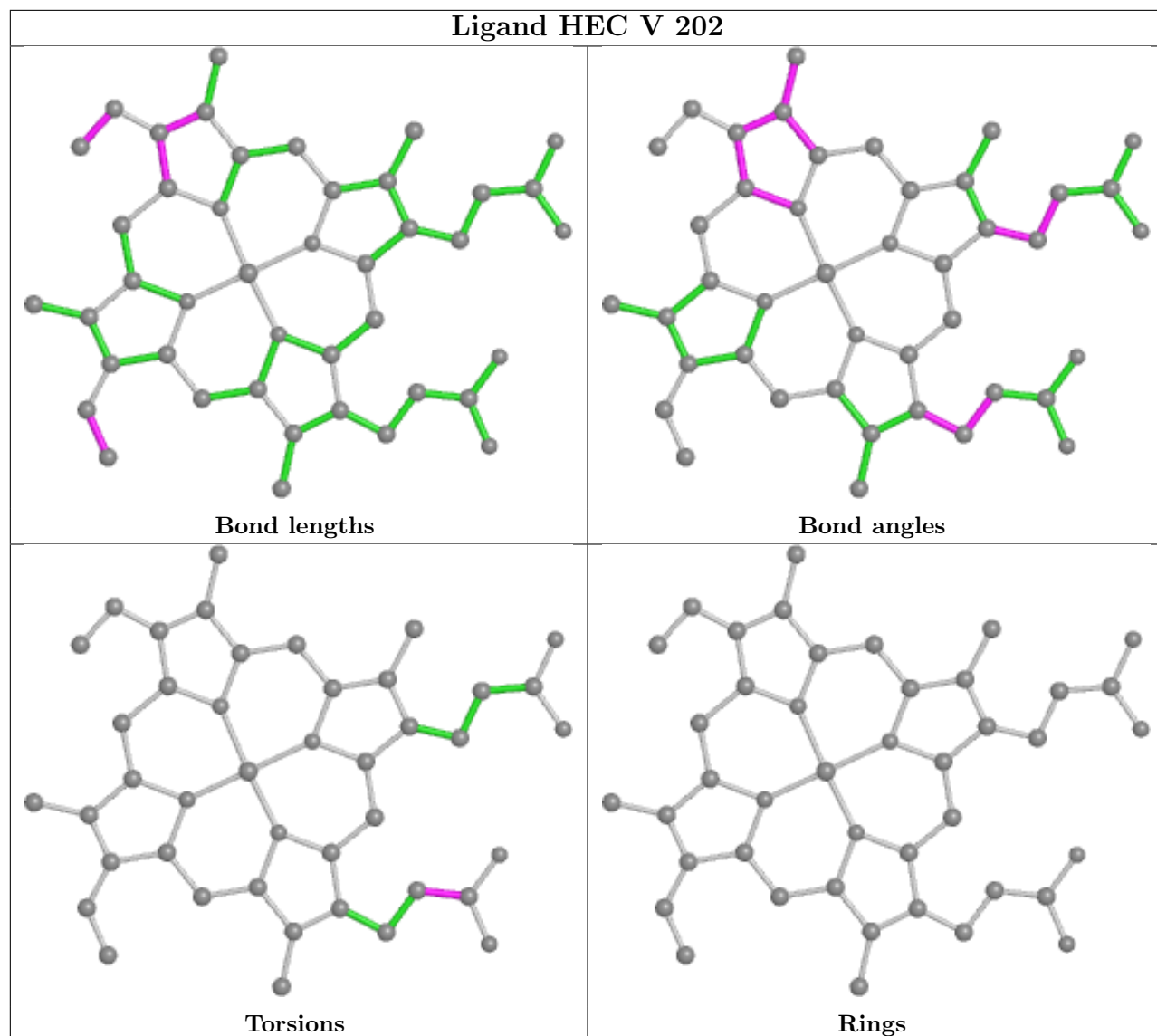


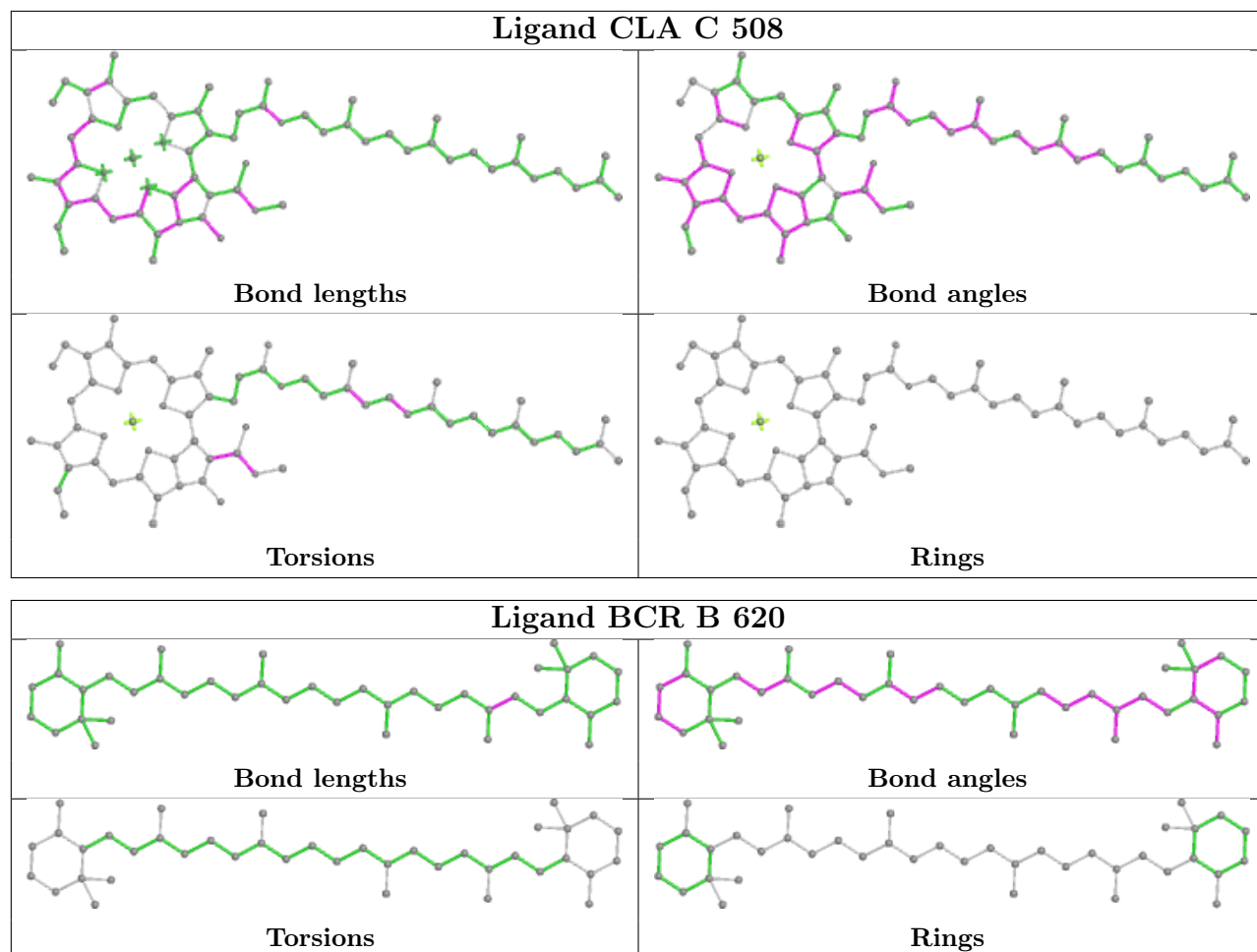


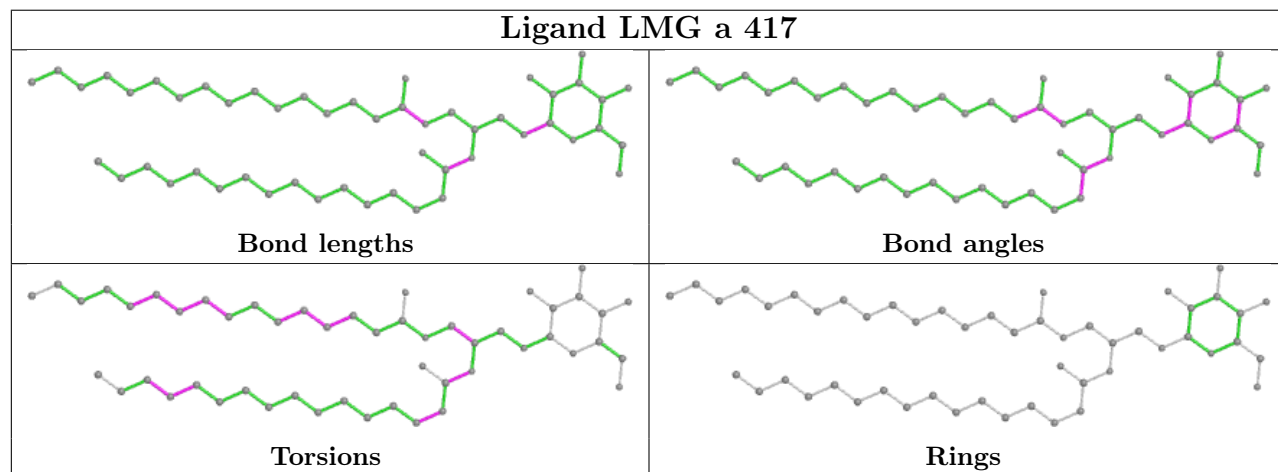
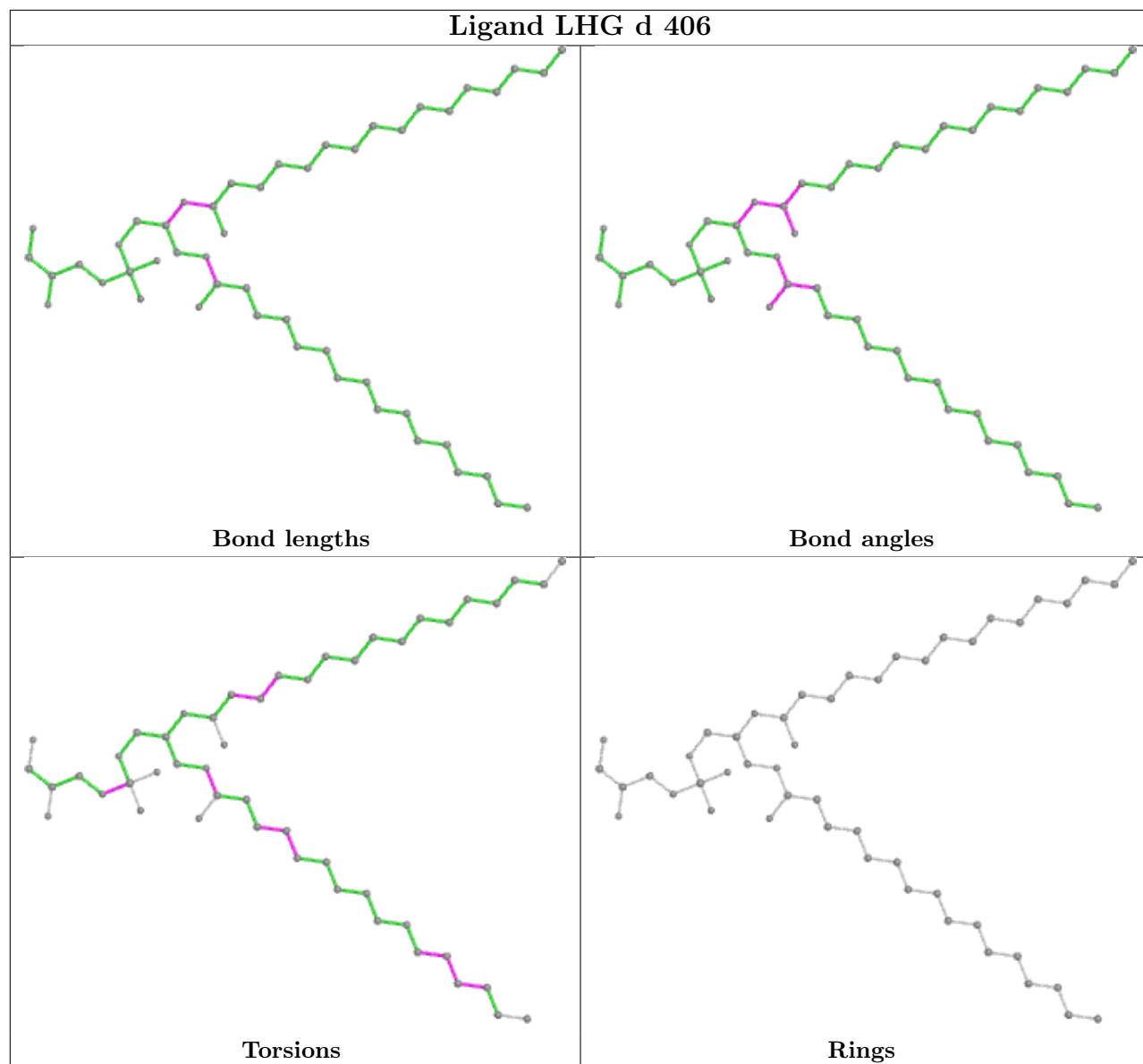


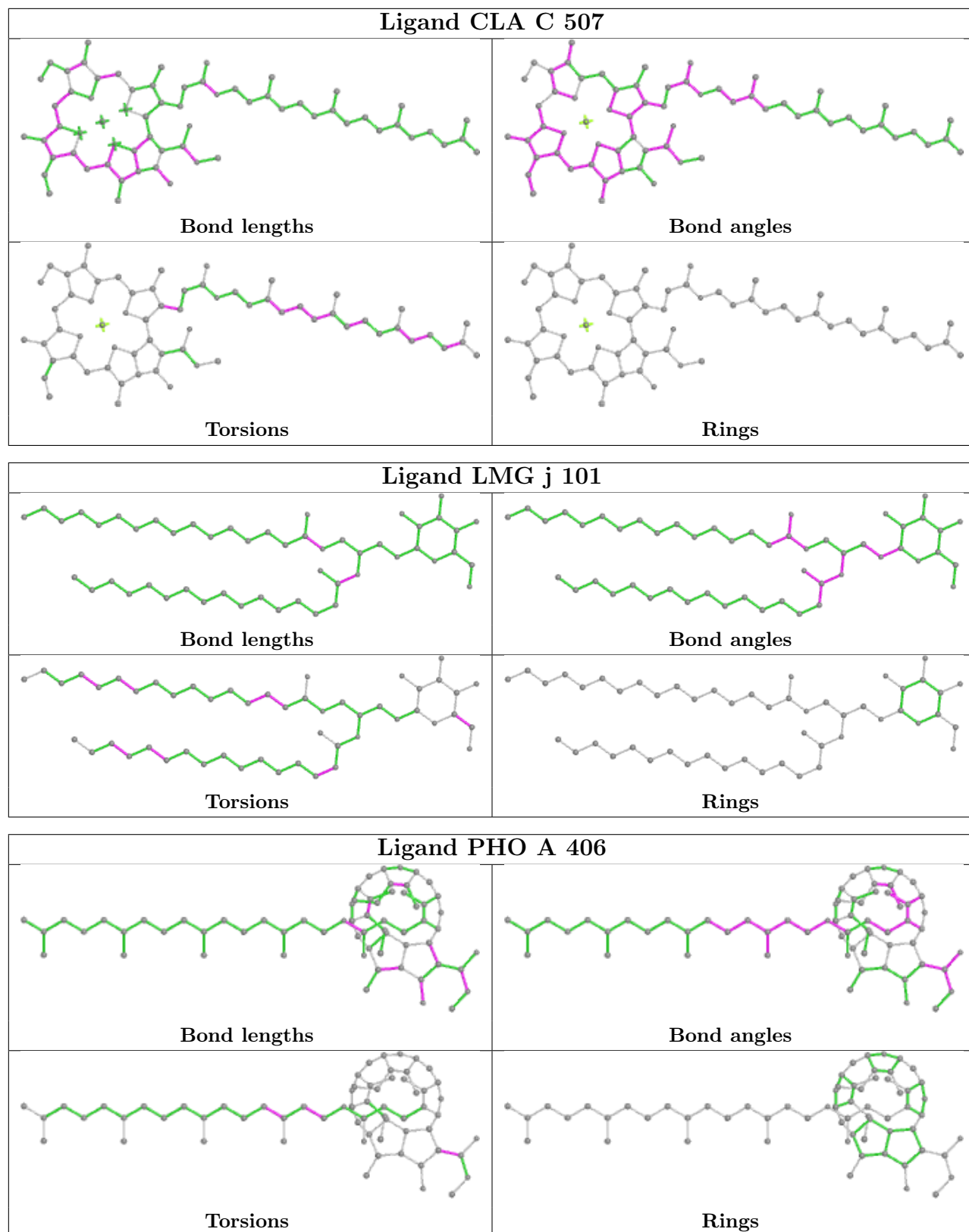


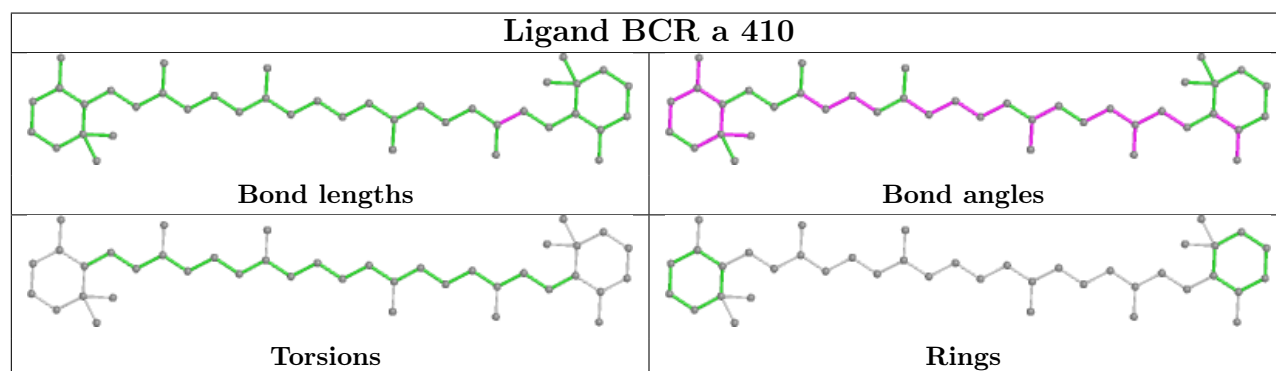
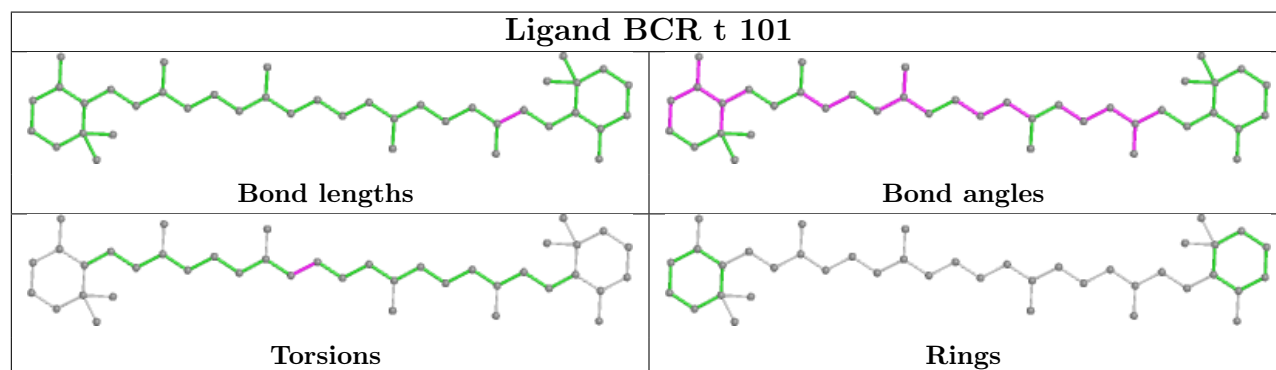
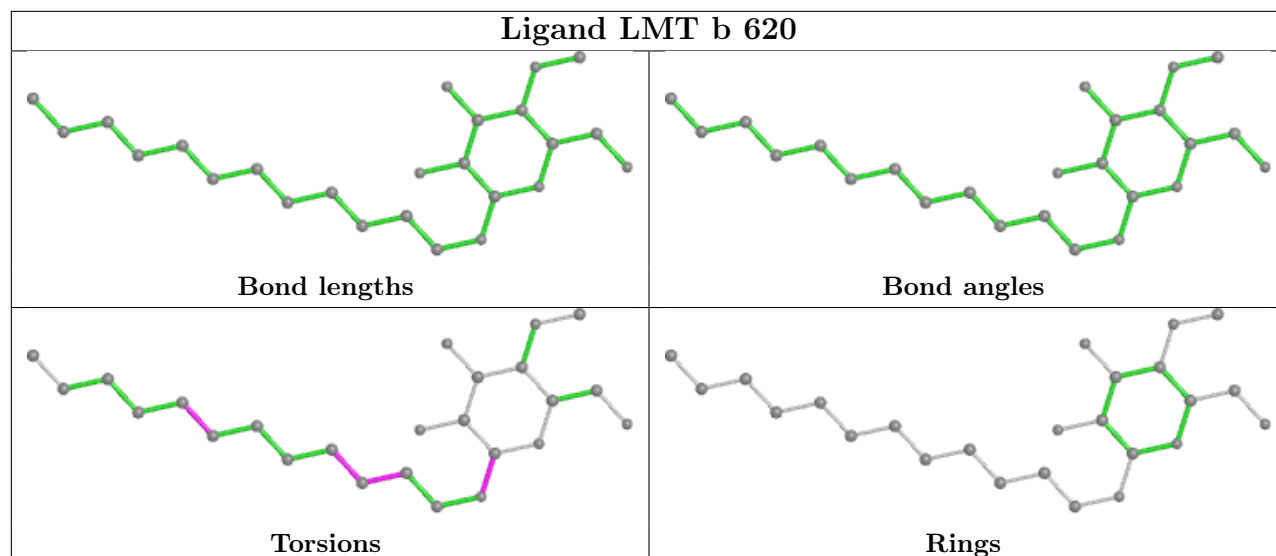


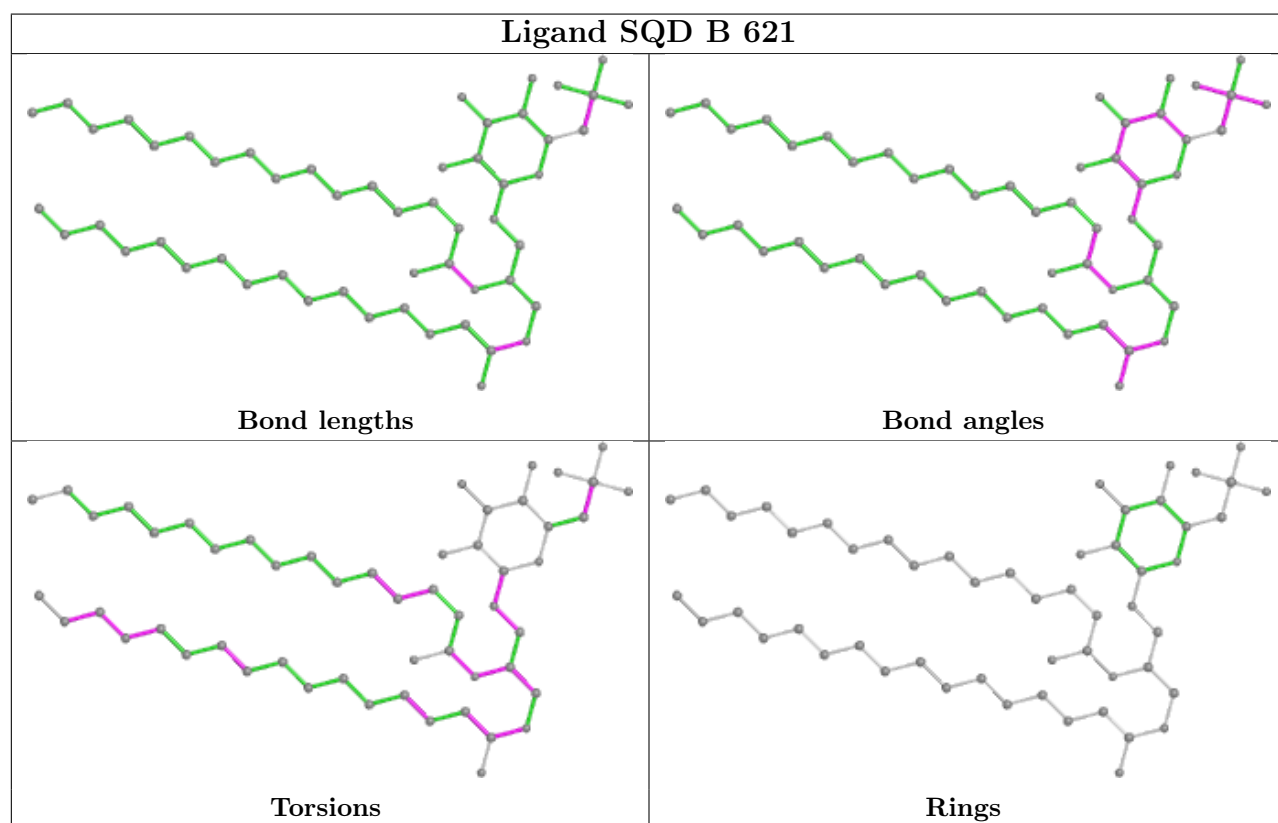
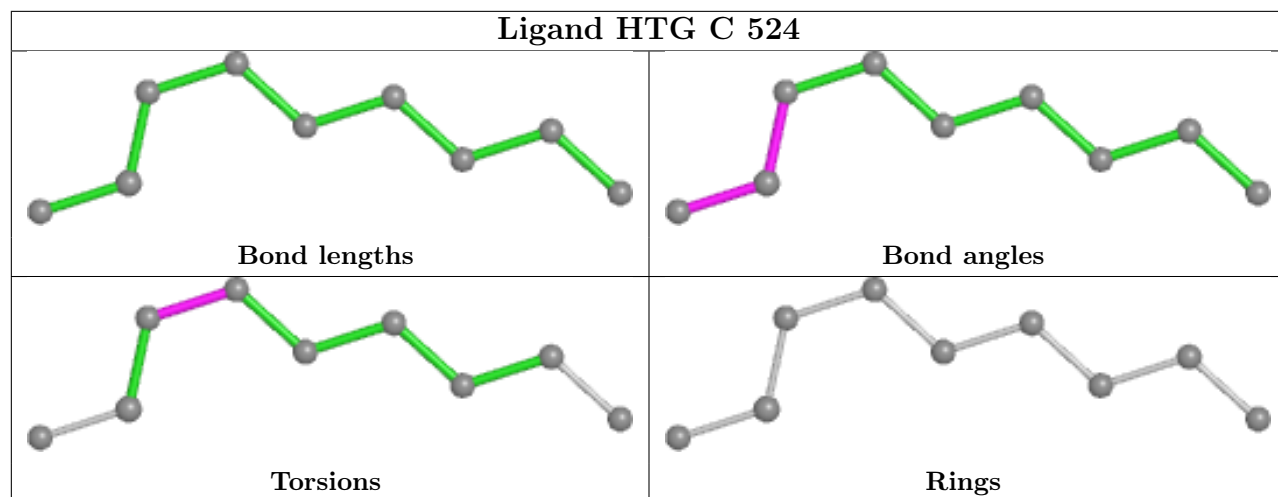


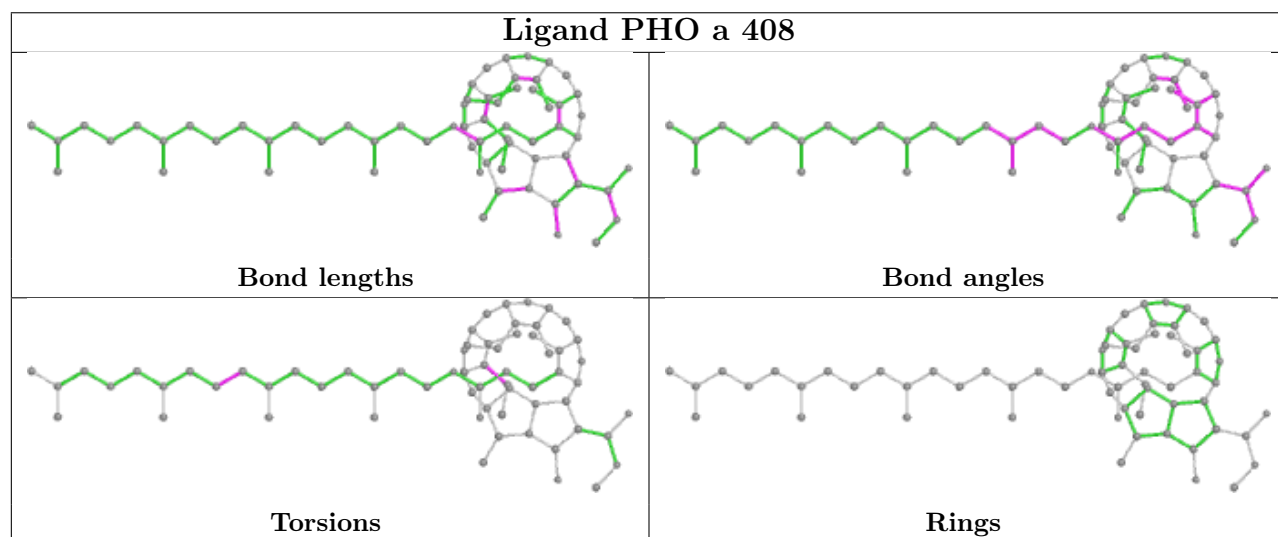
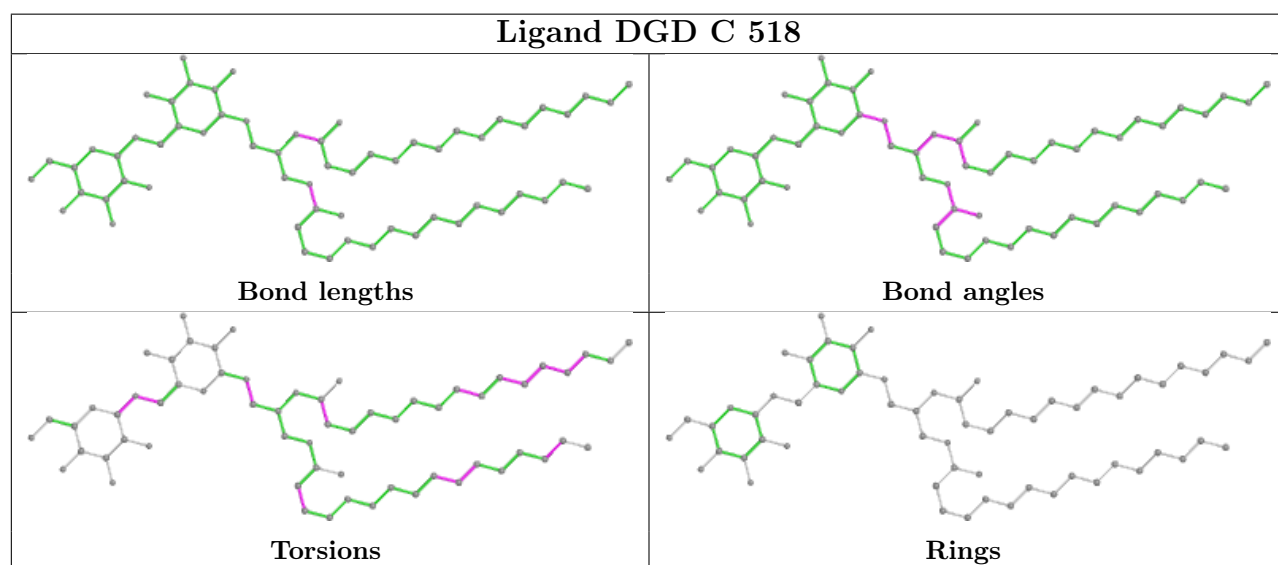
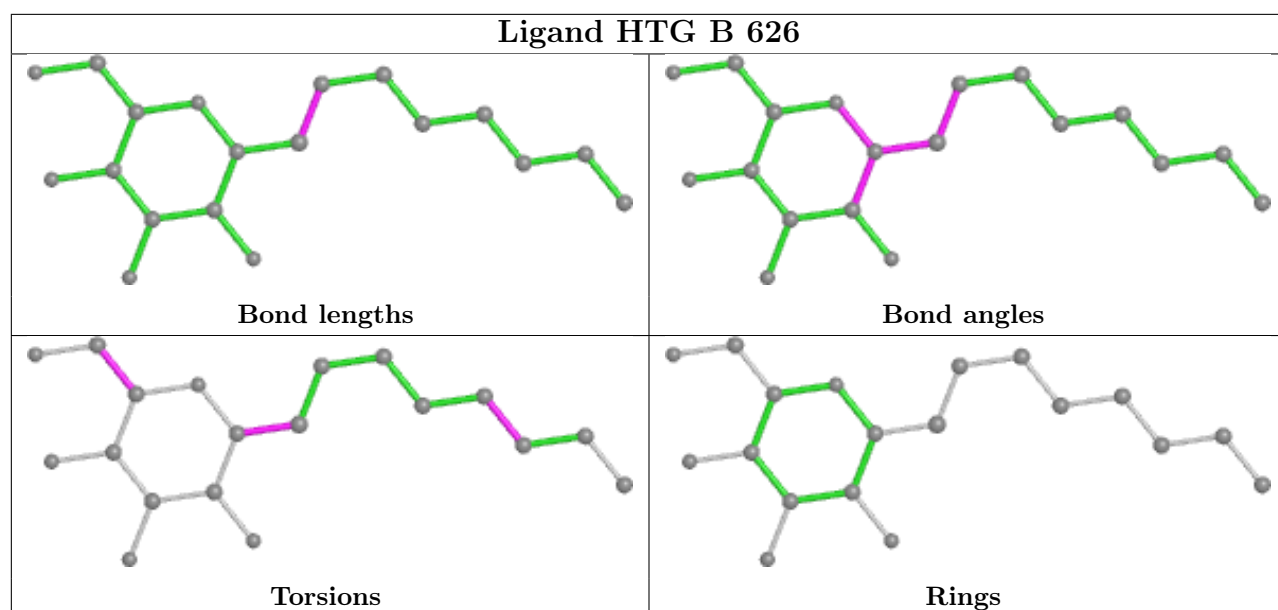


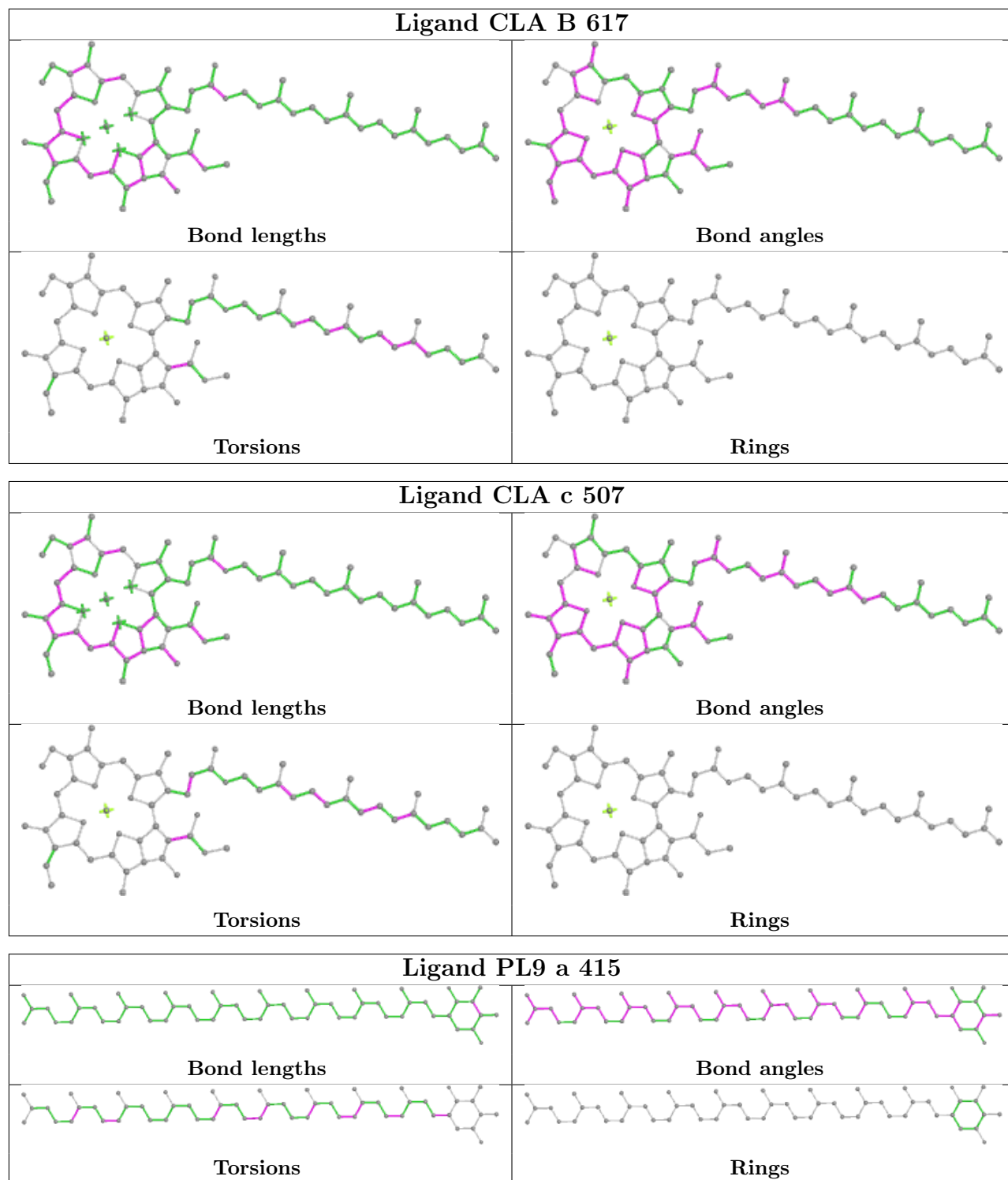


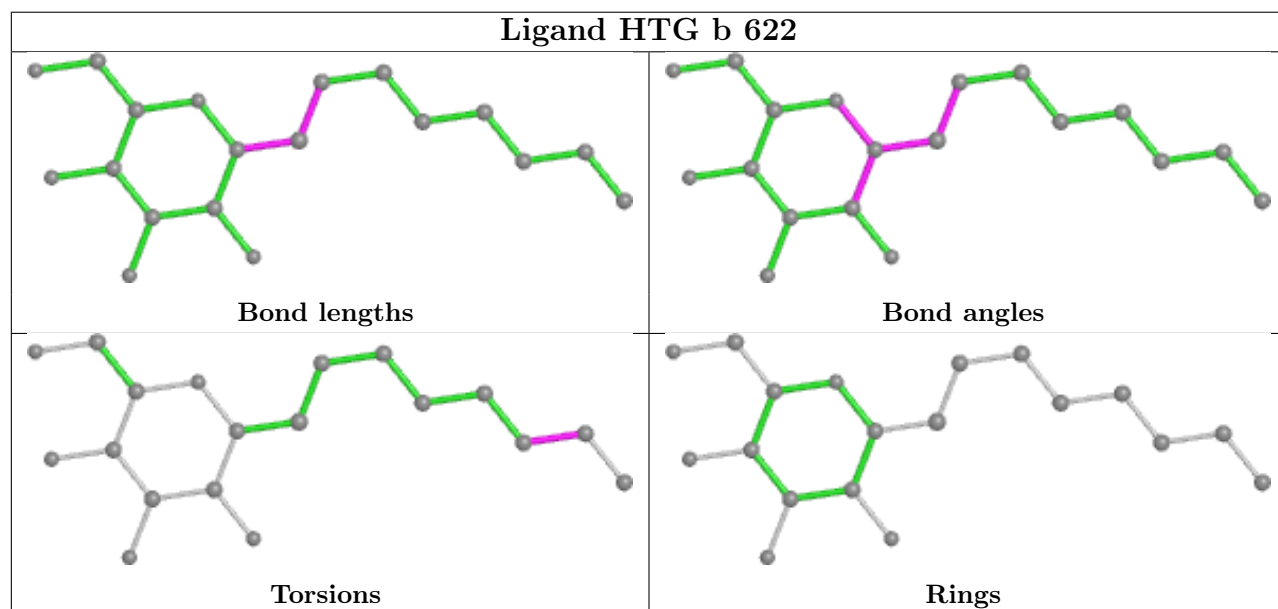
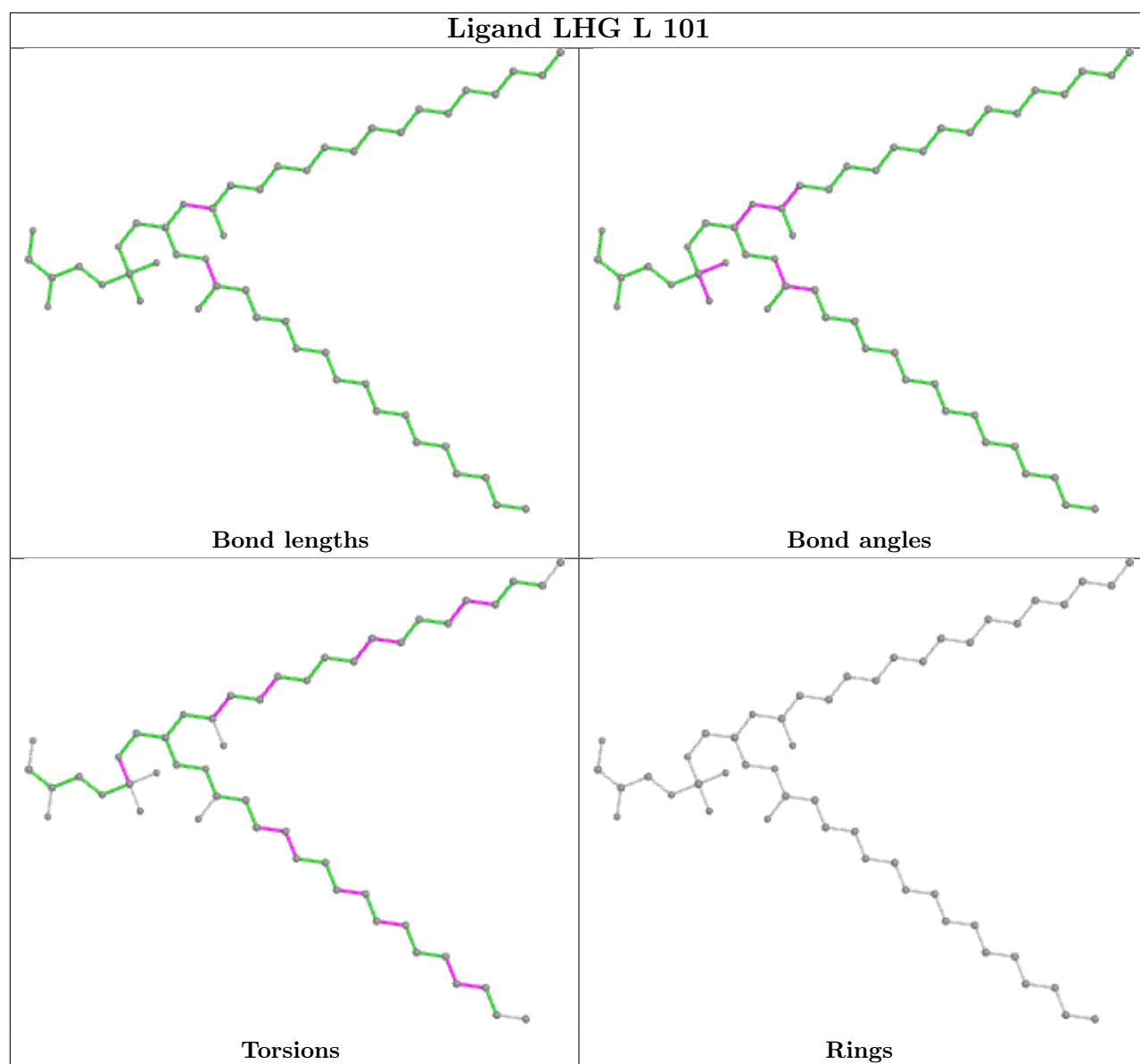


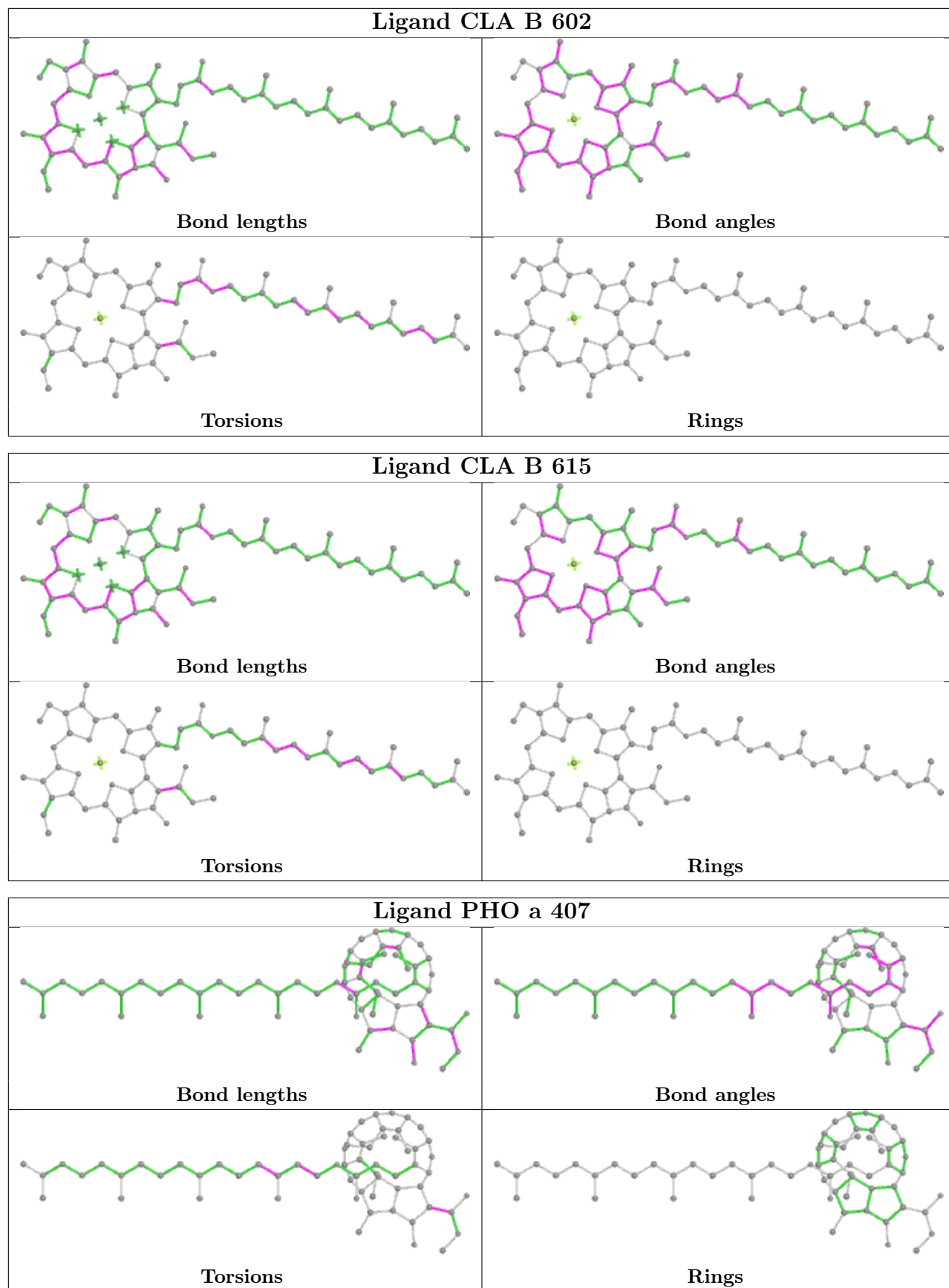


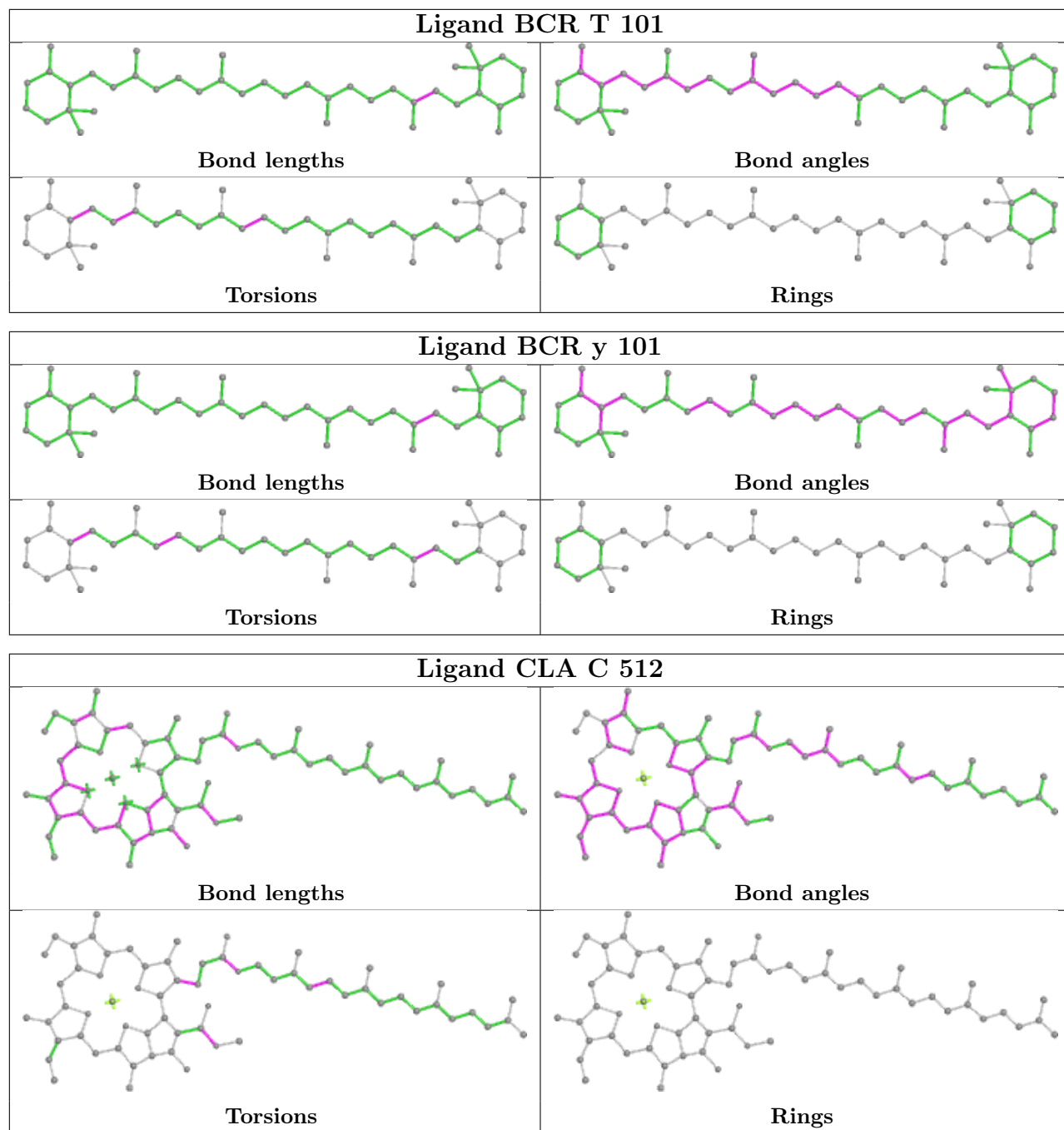


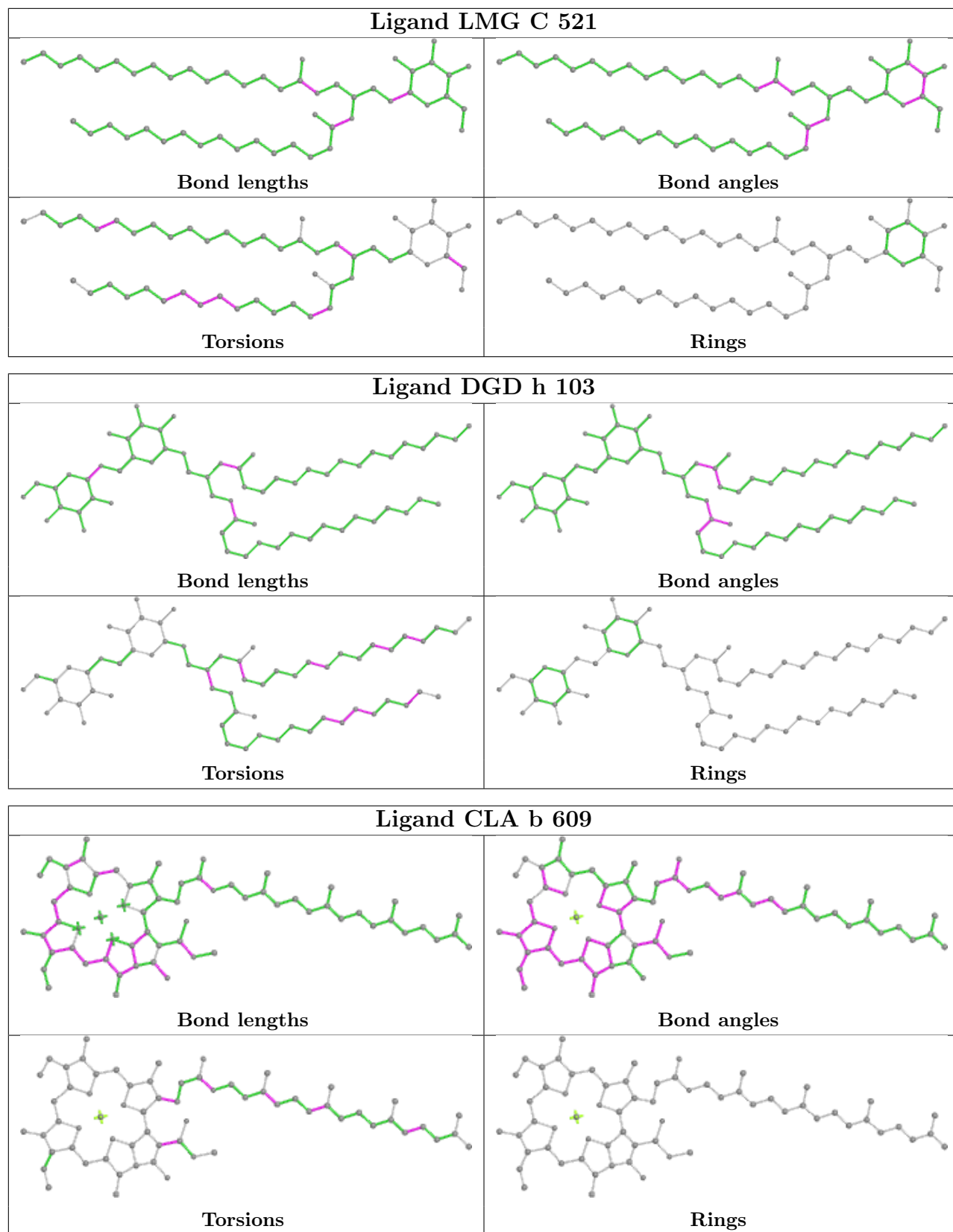


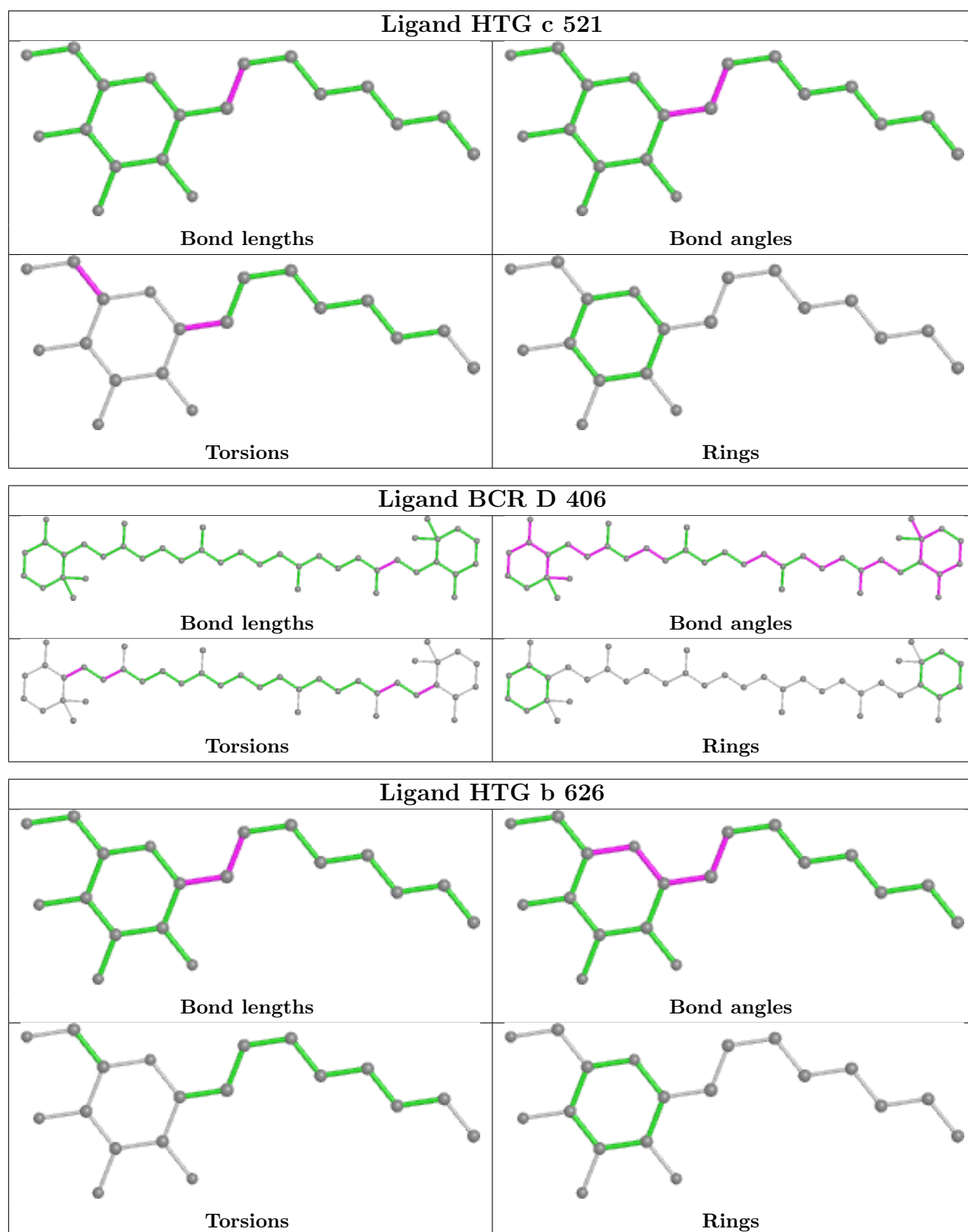


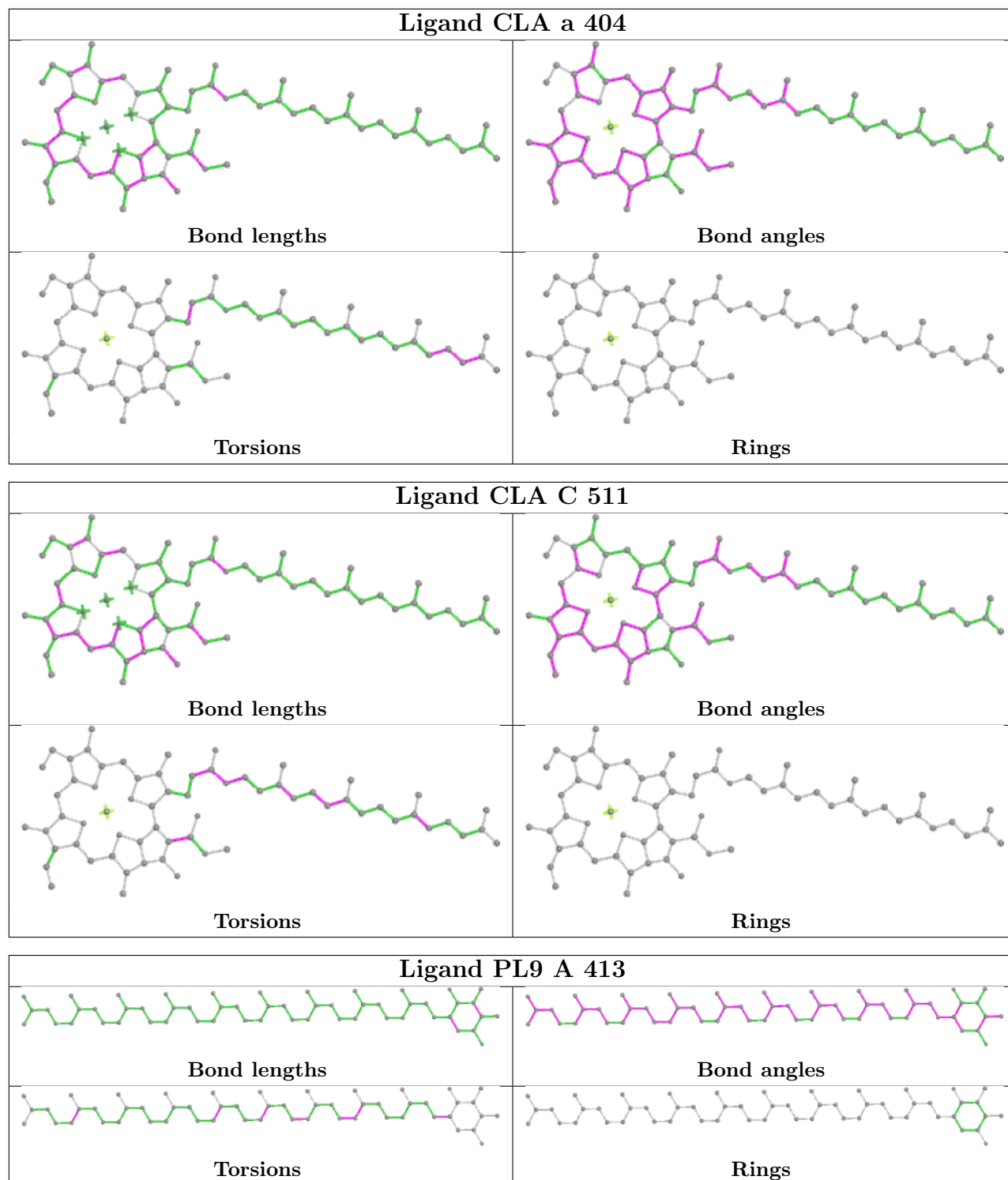


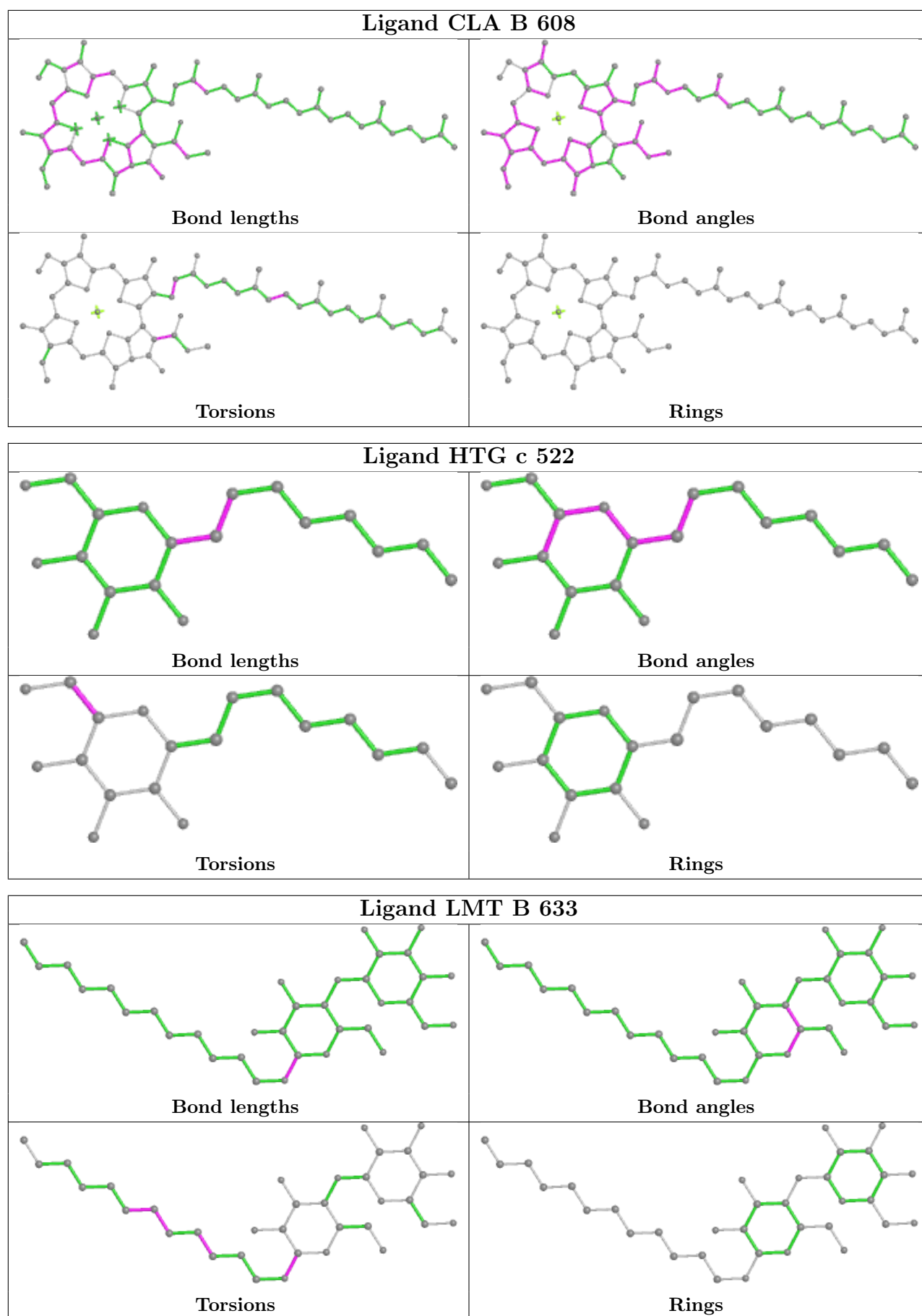












5.7 Other polymers [i](#)

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	334/344 (97%)	-1.23	0 100 100	22, 33, 58, 97	0
1	a	334/344 (97%)	-1.22	0 100 100	24, 36, 65, 113	0
2	B	504/505 (99%)	-1.16	0 100 100	24, 38, 68, 118	0
2	b	504/505 (99%)	-1.14	0 100 100	25, 40, 77, 122	0
3	C	451/455 (99%)	-1.12	0 100 100	27, 48, 70, 108	0
3	c	455/455 (100%)	-1.11	0 100 100	32, 52, 72, 118	0
4	D	342/342 (100%)	-1.23	0 100 100	22, 35, 58, 113	0
4	d	341/342 (99%)	-1.23	0 100 100	24, 39, 59, 124	0
5	E	81/84 (96%)	-1.01	0 100 100	40, 59, 90, 125	0
5	e	79/84 (94%)	-0.99	0 100 100	45, 62, 100, 125	0
6	F	34/44 (77%)	-1.04	0 100 100	41, 51, 81, 96	0
6	f	31/44 (70%)	-0.93	0 100 100	48, 53, 84, 128	0
7	H	64/65 (98%)	-1.00	1 (1%) 70 67	37, 51, 72, 104	0
7	h	65/65 (100%)	-1.10	0 100 100	40, 54, 79, 152	0
8	I	37/38 (97%)	-1.04	0 100 100	36, 48, 98, 129	0
8	i	37/38 (97%)	-0.90	0 100 100	38, 49, 107, 137	0
9	J	38/39 (97%)	-1.07	0 100 100	37, 55, 113, 156	0
9	j	39/39 (100%)	-0.96	0 100 100	46, 56, 109, 137	0
10	K	37/37 (100%)	-1.17	0 100 100	49, 58, 81, 98	0
10	k	37/37 (100%)	-1.15	0 100 100	52, 60, 82, 99	0
11	L	36/37 (97%)	-1.28	0 100 100	23, 30, 98, 143	0
11	l	36/37 (97%)	-1.26	0 100 100	24, 31, 97, 143	0
12	M	32/36 (88%)	-1.23	0 100 100	24, 31, 53, 125	0
12	m	33/36 (91%)	-1.21	0 100 100	24, 32, 66, 126	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	O	243/244 (99%)	-1.13	0 100 100	22, 50, 103, 163	0
13	o	243/244 (99%)	-1.14	0 100 100	26, 50, 108, 151	0
14	T	29/32 (90%)	-1.22	0 100 100	26, 31, 68, 97	0
14	t	29/32 (90%)	-1.22	0 100 100	26, 31, 69, 98	0
15	U	96/104 (92%)	-1.19	0 100 100	32, 44, 72, 86	0
15	u	97/104 (93%)	-1.27	0 100 100	37, 47, 72, 105	0
16	V	137/137 (100%)	-1.16	0 100 100	30, 46, 74, 111	0
16	v	137/137 (100%)	-1.14	0 100 100	37, 54, 79, 112	0
17	X	38/40 (95%)	-0.88	0 100 100	49, 58, 80, 121	0
17	x	38/40 (95%)	-0.70	0 100 100	50, 60, 84, 123	0
18	Y	29/30 (96%)	-0.61	0 100 100	60, 76, 112, 120	0
18	y	29/30 (96%)	-0.85	0 100 100	63, 76, 107, 118	0
19	Z	62/62 (100%)	-0.94	0 100 100	57, 77, 127, 161	0
19	z	62/62 (100%)	-0.70	0 100 100	61, 79, 127, 161	0
20	R	34/34 (100%)	0.36	0 100 100	92, 116, 145, 149	0
All	All	5284/5384 (98%)	-1.13	1 (0%) 100 100	22, 45, 88, 163	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
7	H	65	LEU	2.1

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
12	FME	m	1	10/11	0.96	0.06	26,43,69,74	0
14	FME	t	1	10/11	0.97	0.04	22,34,47,66	0
14	FME	T	1	10/11	0.97	0.05	19,37,45,52	0
8	FME	I	1	10/11	0.98	0.04	29,49,53,54	0
12	FME	M	1	10/11	0.98	0.06	33,41,72,72	0
8	FME	i	1	10/11	0.98	0.04	38,50,63,74	0

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(Å ²)	Q<0.9
30	UNL	m	102	10/-	0.70	0.13	36,47,64,66	0
36	HTG	D	412	16/19	0.72	0.11	43,118,136,138	0
35	LMT	E	102	35/35	0.73	0.13	91,129,157,163	0
36	HTG	B	626	19/19	0.73	0.11	51,135,163,189	0
30	UNL	J	102	10/-	0.73	0.17	59,66,85,90	0
36	HTG	b	622	19/19	0.73	0.15	77,105,127,134	0
34	LMG	C	521	51/55	0.74	0.11	50,107,149,153	0
36	HTG	B	630	19/19	0.74	0.09	67,116,145,154	0
36	HTG	C	524	9/19	0.74	0.18	70,90,106,139	0
35	LMT	D	403	35/35	0.74	0.11	40,112,125,126	0
30	UNL	A	414	28/-	0.74	0.13	66,93,121,126	0
27	GOL	O	302	6/6	0.75	0.09	63,68,72,78	0
30	UNL	i	101	40/-	0.76	0.12	56,91,147,151	0
35	LMT	B	633	35/35	0.76	0.12	39,117,133,139	0
30	UNL	a	416	30/-	0.76	0.11	86,102,121,129	0
35	LMT	a	418	35/35	0.77	0.11	97,118,139,139	0
35	LMT	e	102	35/35	0.77	0.11	75,139,161,171	0
36	HTG	C	523	19/19	0.77	0.10	95,107,121,133	0
30	UNL	j	102	10/-	0.78	0.11	57,81,94,94	0
30	UNL	K	101	34/-	0.78	0.10	62,102,116,137	0
36	HTG	b	626	19/19	0.78	0.09	66,114,151,181	0
36	HTG	B	625	19/19	0.79	0.15	43,101,109,111	0
35	LMT	C	522	35/35	0.79	0.10	83,119,141,151	0
30	UNL	M	102	10/-	0.81	0.09	38,51,60,60	0
36	HTG	c	521	19/19	0.81	0.08	71,125,137,163	0
26	SQD	f	101	43/54	0.82	0.10	86,117,154,157	0
30	UNL	B	631	33/-	0.83	0.12	36,92,134,151	0
30	UNL	b	629	36/-	0.83	0.09	46,85,130,141	0
35	LMT	M	103	35/35	0.83	0.09	37,128,152,157	0
34	LMG	c	520	51/55	0.83	0.09	62,104,135,147	0
35	LMT	B	623	35/35	0.83	0.09	50,95,120,122	0
36	HTG	b	623	19/19	0.83	0.10	73,116,140,180	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
30	UNL	D	411	40/-	0.83	0.10	49,76,125,128	0
30	UNL	I	101	40/-	0.83	0.10	39,89,141,148	0
36	HTG	c	522	19/19	0.83	0.10	83,139,149,158	0
31	LHG	e	101	42/49	0.84	0.09	63,119,140,150	0
30	UNL	b	627	33/-	0.85	0.09	53,80,145,147	0
35	LMT	b	620	25/35	0.85	0.09	55,88,143,147	0
35	LMT	M	101	35/35	0.85	0.08	40,85,105,107	0
35	LMT	m	103	35/35	0.85	0.10	40,85,113,117	0
30	UNL	c	525	32/-	0.85	0.10	74,104,124,132	0
36	HTG	h	101	16/19	0.85	0.09	71,110,125,143	0
27	GOL	a	412	6/6	0.86	0.12	56,70,85,86	0
31	LHG	E	101	42/49	0.86	0.09	47,95,114,121	0
36	HTG	b	621	19/19	0.86	0.10	33,91,127,144	0
34	LMG	Z	101	37/55	0.87	0.10	57,103,134,149	0
26	SQD	B	621	54/54	0.87	0.09	44,82,109,118	0
26	SQD	a	413	54/54	0.87	0.07	37,73,134,146	0
27	GOL	d	401	6/6	0.87	0.24	36,51,76,77	0
36	HTG	V	203	11/19	0.87	0.08	88,101,107,108	0
26	SQD	A	411	54/54	0.87	0.07	41,71,114,129	0
33	CA	B	601	1/1	0.88	0.07	144,144,144,144	0
35	LMT	B	632	25/35	0.88	0.10	41,68,135,136	0
30	UNL	D	410	17/-	0.89	0.09	46,64,94,102	0
27	GOL	B	628	6/6	0.89	0.12	47,58,65,72	0
29	PL9	a	415	55/55	0.89	0.10	56,82,108,115	0
26	SQD	D	413	43/54	0.90	0.10	58,106,117,124	0
35	LMT	b	628	25/35	0.90	0.08	37,63,135,142	0
36	HTG	B	629	19/19	0.90	0.07	47,59,78,83	0
26	SQD	L	102	54/54	0.90	0.07	39,73,114,123	0
34	LMG	z	101	39/55	0.90	0.10	69,117,144,151	0
29	PL9	A	413	55/55	0.91	0.10	44,83,100,110	0
27	GOL	b	624	6/6	0.91	0.10	75,92,97,104	0
34	LMG	C	501	51/55	0.91	0.09	40,81,110,113	0
30	UNL	x	101	18/-	0.91	0.09	47,66,104,105	0
25	BCR	D	406	40/40	0.91	0.07	35,46,78,84	0
35	LMT	B	634	26/35	0.92	0.08	48,90,109,115	0
34	LMG	C	520	51/55	0.92	0.08	43,75,125,134	0
23	CLA	b	601	65/65	0.92	0.07	46,70,107,135	0
30	UNL	X	101	18/-	0.92	0.10	39,66,83,87	0
34	LMG	a	417	51/55	0.92	0.07	42,79,99,115	0
36	HTG	B	624	19/19	0.92	0.07	33,71,128,130	0
34	LMG	c	519	51/55	0.92	0.08	47,78,122,143	0
27	GOL	C	525	6/6	0.93	0.12	45,56,66,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
23	CLA	C	507	65/65	0.93	0.07	42,57,106,115	0
23	CLA	B	602	65/65	0.93	0.08	39,61,93,123	0
36	HTG	b	625	19/19	0.93	0.06	40,60,90,94	0
23	CLA	c	513	65/65	0.93	0.07	58,74,112,119	0
27	GOL	A	410	6/6	0.93	0.08	45,57,60,90	0
25	BCR	C	515	40/40	0.93	0.07	49,60,74,82	0
34	LMG	J	101	51/55	0.93	0.07	33,54,96,105	0
23	CLA	C	505	65/65	0.94	0.07	32,46,91,111	0
25	BCR	C	527	40/40	0.94	0.07	43,55,71,72	0
23	CLA	C	514	65/65	0.94	0.07	50,65,100,107	0
25	BCR	Y	101	40/40	0.94	0.06	40,51,62,71	0
25	BCR	y	101	40/40	0.94	0.06	48,60,74,77	0
25	BCR	B	620	40/40	0.94	0.06	30,43,67,78	0
27	GOL	B	627	6/6	0.94	0.09	60,77,93,95	0
34	LMG	j	101	51/55	0.94	0.06	41,56,92,119	0
34	LMG	B	622	51/55	0.94	0.06	35,53,83,101	0
30	UNL	d	409	17/-	0.94	0.06	48,58,94,99	0
37	DGD	c	517	62/66	0.94	0.06	42,55,110,126	0
23	CLA	C	513	65/65	0.95	0.06	46,60,106,112	0
31	LHG	d	406	49/49	0.95	0.07	27,48,81,84	0
26	SQD	A	409	54/54	0.95	0.07	41,66,99,109	0
23	CLA	b	616	65/65	0.95	0.06	34,51,101,111	0
23	CLA	c	504	65/65	0.95	0.06	41,52,94,117	0
23	CLA	c	506	65/65	0.95	0.06	47,65,98,117	0
23	CLA	c	507	65/65	0.95	0.07	43,57,70,72	0
29	PL9	D	407	55/55	0.95	0.05	20,30,44,53	0
26	SQD	a	411	54/54	0.95	0.07	44,69,108,113	0
23	CLA	c	512	65/65	0.95	0.07	53,66,96,104	0
25	BCR	b	619	40/40	0.95	0.05	33,46,69,80	0
25	BCR	d	404	40/40	0.95	0.06	43,55,79,81	0
25	BCR	k	101	40/40	0.95	0.07	50,60,84,87	0
25	BCR	t	101	40/40	0.95	0.05	23,43,64,68	0
34	LMG	m	101	51/55	0.95	0.05	33,52,85,99	0
37	DGD	C	518	62/66	0.95	0.06	35,51,111,119	0
37	DGD	c	516	62/66	0.95	0.06	35,47,74,93	0
31	LHG	A	415	49/49	0.95	0.06	29,46,67,82	0
37	DGD	c	518	62/66	0.95	0.05	39,50,74,97	0
23	CLA	C	508	65/65	0.96	0.06	40,51,66,78	0
23	CLA	C	509	65/65	0.96	0.05	33,46,93,103	0
23	CLA	d	403	65/65	0.96	0.06	41,52,102,116	0
24	PHO	a	408	64/64	0.96	0.05	30,40,53,60	0
25	BCR	A	408	40/40	0.96	0.05	23,34,48,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
25	BCR	B	619	40/40	0.96	0.04	21,36,52,60	0
23	CLA	C	511	65/65	0.96	0.05	36,48,61,67	0
23	CLA	B	607	65/65	0.96	0.06	28,37,76,93	0
31	LHG	D	409	49/49	0.96	0.07	32,50,107,117	0
25	BCR	C	516	40/40	0.96	0.06	38,50,63,68	0
31	LHG	b	630	49/49	0.96	0.05	26,43,59,64	0
23	CLA	B	617	65/65	0.96	0.07	33,45,121,132	0
31	LHG	d	408	49/49	0.96	0.07	40,55,105,111	0
23	CLA	D	405	65/65	0.96	0.07	33,48,111,119	0
25	BCR	H	101	40/40	0.96	0.05	35,46,66,73	0
25	BCR	T	101	40/40	0.96	0.04	21,37,55,60	0
23	CLA	a	409	65/65	0.96	0.07	30,44,124,130	0
25	BCR	b	617	40/40	0.96	0.04	21,35,45,51	0
25	BCR	b	618	40/40	0.96	0.04	22,36,51,56	0
29	PL9	d	405	55/55	0.96	0.05	24,33,49,66	0
23	CLA	C	502	65/65	0.96	0.06	36,45,67,70	0
25	BCR	c	514	40/40	0.96	0.05	58,68,80,83	0
25	BCR	c	515	40/40	0.96	0.05	41,54,66,70	0
23	CLA	b	602	65/65	0.96	0.06	36,48,68,77	0
25	BCR	h	102	40/40	0.96	0.06	42,57,71,74	0
23	CLA	C	503	65/65	0.96	0.06	33,43,60,67	0
23	CLA	c	501	65/65	0.96	0.05	43,53,67,72	0
23	CLA	C	504	65/65	0.96	0.06	37,47,66,75	0
37	DGD	C	519	62/66	0.96	0.05	30,44,80,109	0
37	DGD	H	102	62/66	0.96	0.06	29,42,64,68	0
23	CLA	A	407	65/65	0.96	0.06	28,38,98,117	0
23	CLA	B	603	65/65	0.96	0.05	31,41,57,69	0
23	CLA	c	511	65/65	0.96	0.06	47,56,78,89	0
23	CLA	b	605	65/65	0.97	0.05	26,34,51,76	0
23	CLA	b	606	65/65	0.97	0.05	29,42,91,110	0
23	CLA	b	607	65/65	0.97	0.05	21,30,58,67	0
23	CLA	b	608	65/65	0.97	0.05	34,44,67,72	0
23	CLA	b	609	65/65	0.97	0.05	39,48,63,74	0
25	BCR	a	410	40/40	0.97	0.05	28,38,55,58	0
23	CLA	b	610	65/65	0.97	0.05	35,44,56,61	0
23	CLA	b	611	65/65	0.97	0.05	27,35,57,62	0
23	CLA	b	612	65/65	0.97	0.06	28,35,48,69	0
23	CLA	b	613	65/65	0.97	0.05	24,36,79,89	0
23	CLA	b	614	65/65	0.97	0.05	25,35,93,107	0
23	CLA	b	615	65/65	0.97	0.05	33,43,65,87	0
23	CLA	C	506	65/65	0.97	0.05	33,44,75,82	0
23	CLA	B	611	65/65	0.97	0.06	29,41,55,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
23	CLA	c	502	65/65	0.97	0.05	40,55,70,74	0
23	CLA	c	503	65/65	0.97	0.05	44,55,67,84	0
23	CLA	B	612	65/65	0.97	0.05	24,32,49,54	0
23	CLA	c	505	65/65	0.97	0.06	36,46,76,82	0
23	CLA	B	613	65/65	0.97	0.05	26,33,45,65	0
23	CLA	B	614	65/65	0.97	0.04	23,31,72,87	0
31	LHG	D	408	49/49	0.97	0.06	25,37,56,78	0
23	CLA	c	508	65/65	0.97	0.05	39,53,121,131	0
23	CLA	c	509	65/65	0.97	0.06	46,56,73,79	0
31	LHG	L	101	49/49	0.97	0.04	26,39,54,75	0
23	CLA	c	510	65/65	0.97	0.05	39,51,67,71	0
23	CLA	C	512	65/65	0.97	0.06	39,54,77,85	0
31	LHG	d	407	49/49	0.97	0.06	24,38,58,65	0
23	CLA	B	615	65/65	0.97	0.05	23,32,86,95	0
23	CLA	B	604	65/65	0.97	0.05	30,43,56,67	0
32	BCT	a	419	4/4	0.97	0.05	41,45,48,58	0
23	CLA	B	605	65/65	0.97	0.05	22,31,101,111	0
33	CA	O	301	1/1	0.97	0.06	101,101,101,101	0
33	CA	V	201	1/1	0.97	0.04	94,94,94,94	0
24	PHO	D	402	64/64	0.97	0.04	25,31,44,55	0
23	CLA	a	406	65/65	0.97	0.05	30,38,98,103	0
37	DGD	C	517	62/66	0.97	0.05	30,41,77,88	0
23	CLA	A	405	65/65	0.97	0.05	24,33,85,94	0
25	BCR	B	618	40/40	0.97	0.04	24,37,48,49	0
23	CLA	B	608	65/65	0.97	0.05	20,28,59,67	0
23	CLA	B	610	65/65	0.97	0.05	31,42,53,89	0
23	CLA	b	603	65/65	0.97	0.05	32,44,61,70	0
23	CLA	b	604	65/65	0.97	0.05	24,33,95,101	0
37	DGD	h	103	62/66	0.97	0.05	34,46,67,76	0
23	CLA	D	404	65/65	0.98	0.05	21,29,50,56	0
22	CL	a	403	1/1	0.98	0.04	41,41,41,41	0
23	CLA	a	404	65/65	0.98	0.05	27,33,52,66	0
32	BCT	A	416	4/4	0.98	0.05	32,45,46,51	0
23	CLA	a	405	65/65	0.98	0.04	23,29,52,60	0
23	CLA	C	510	65/65	0.98	0.06	39,53,71,79	0
23	CLA	d	402	65/65	0.98	0.05	27,32,58,72	0
23	CLA	B	616	65/65	0.98	0.04	29,38,60,67	0
33	CA	c	523	1/1	0.98	0.10	68,68,68,68	0
24	PHO	A	406	64/64	0.98	0.04	22,29,39,46	0
23	CLA	A	404	65/65	0.98	0.04	22,25,39,58	0
24	PHO	a	407	64/64	0.98	0.04	24,31,45,50	0
23	CLA	B	609	65/65	0.98	0.04	30,42,56,66	0

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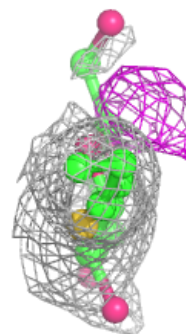
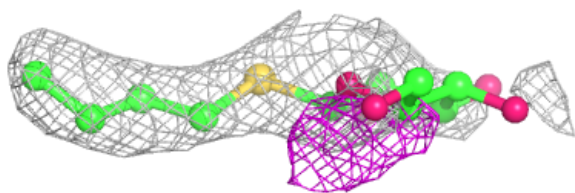
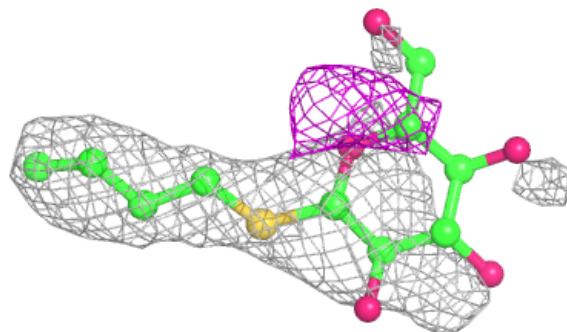
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
23	CLA	B	606	65/65	0.98	0.05	24,33,46,51	0
23	CLA	D	401	65/65	0.98	0.04	21,28,43,47	0
38	HEM	E	103	43/43	0.98	0.06	43,56,69,83	0
38	HEM	e	103	43/43	0.98	0.06	52,78,106,116	0
39	MG	J	103	1/1	0.98	0.10	43,43,43,43	0
40	HEC	v	201	43/43	0.98	0.05	44,53,63,82	0
33	CA	o	301	1/1	0.99	0.02	89,89,89,89	0
21	FE2	a	401	1/1	0.99	0.03	47,47,47,47	0
22	CL	A	402	1/1	0.99	0.07	24,24,24,24	0
33	CA	C	526	1/1	0.99	0.10	59,59,59,59	0
22	CL	A	403	1/1	0.99	0.03	27,27,27,27	0
22	CL	a	402	1/1	0.99	0.06	28,28,28,28	0
39	MG	j	103	1/1	0.99	0.06	48,48,48,48	0
40	HEC	V	202	43/43	0.99	0.05	33,36,48,70	0
21	FE2	A	401	1/1	0.99	0.03	46,46,46,46	0
28	OEX	A	412	10/10	1.00	0.03	23,32,46,47	0
33	CA	c	524	1/1	1.00	0.03	66,66,66,66	0
28	OEX	a	414	10/10	1.00	0.02	29,36,46,48	0

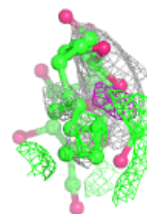
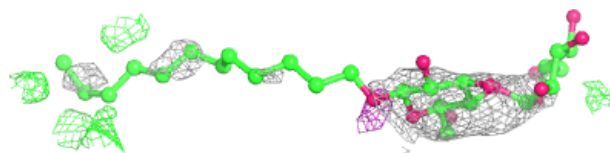
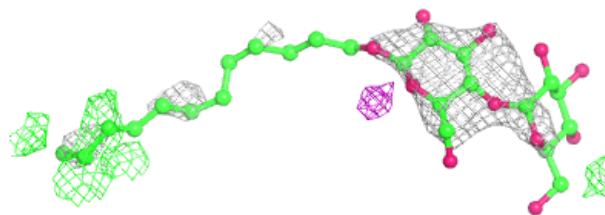
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around HTG D 412:

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

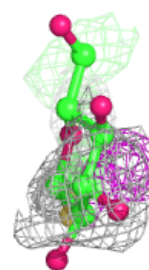
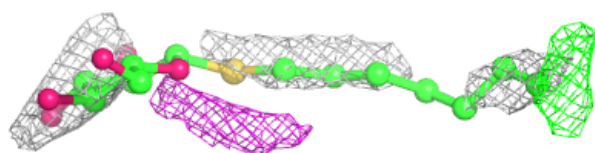
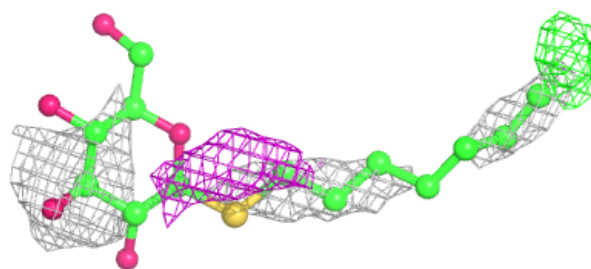
**Electron density around LMT E 102:**

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

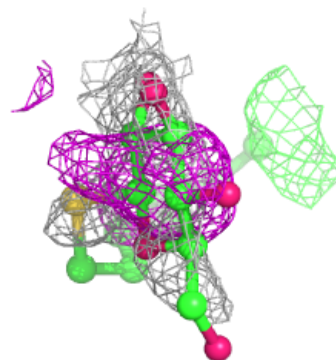
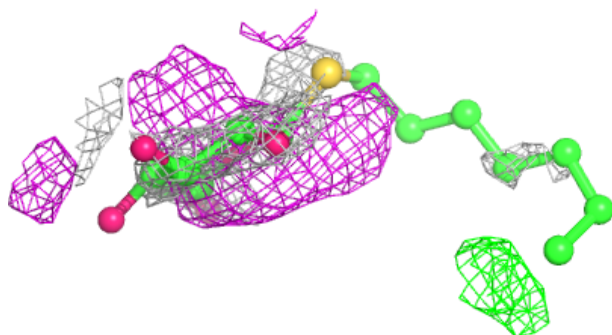
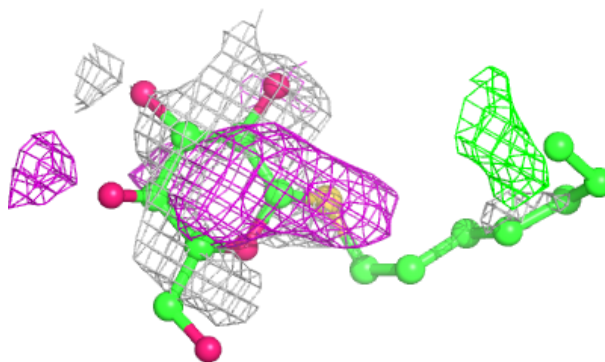


Electron density around HTG B 626:

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

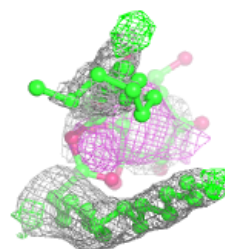
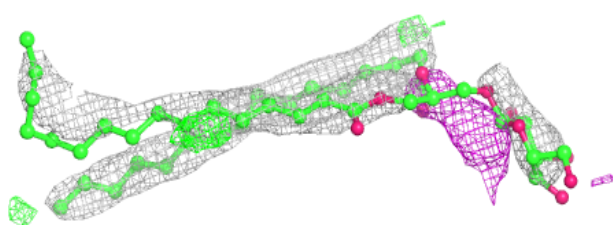
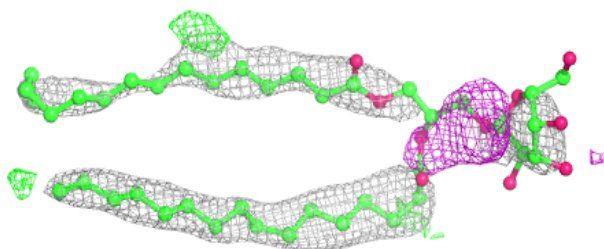
**Electron density around HTG b 622:**

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

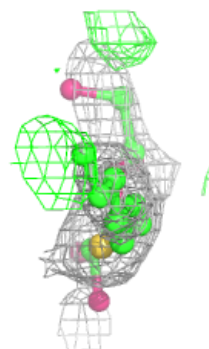
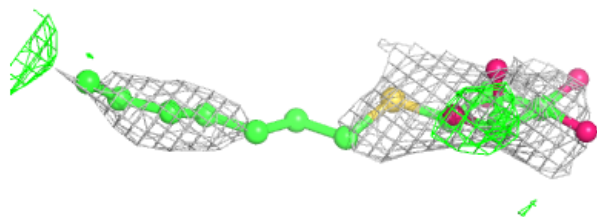
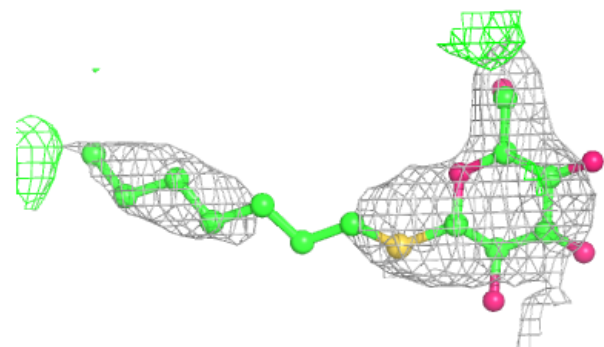


Electron density around LMG C 521:

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

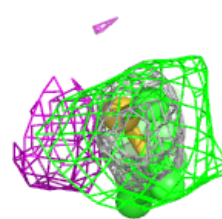
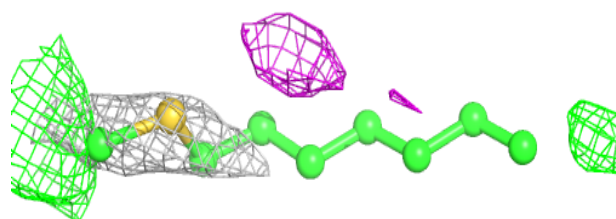
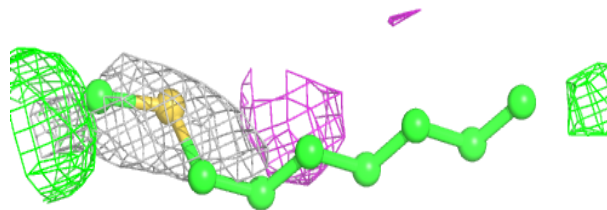
**Electron density around HTG B 630:**

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

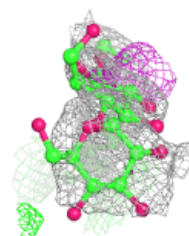
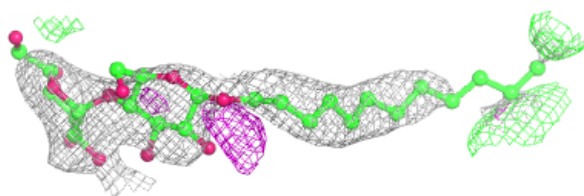
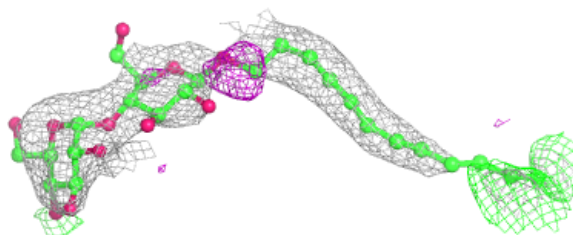


Electron density around HTG C 524:

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

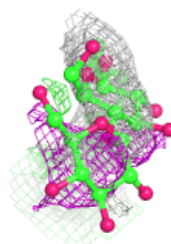
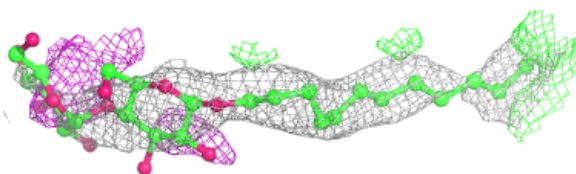
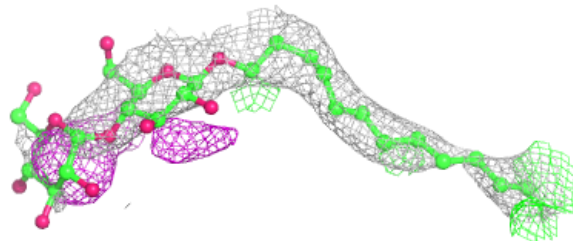
**Electron density around LMT D 403:**

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

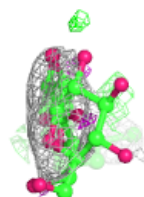
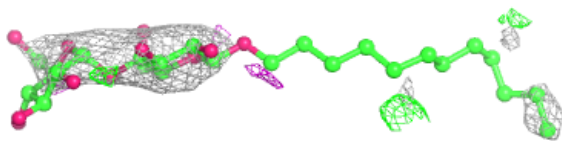
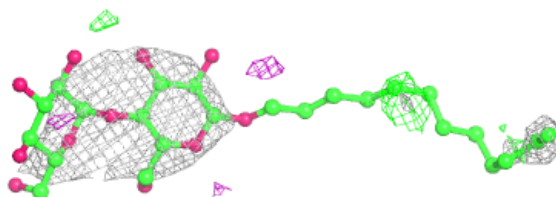


Electron density around LMT B 633:

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

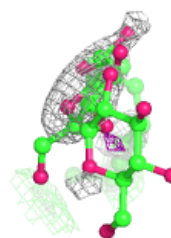
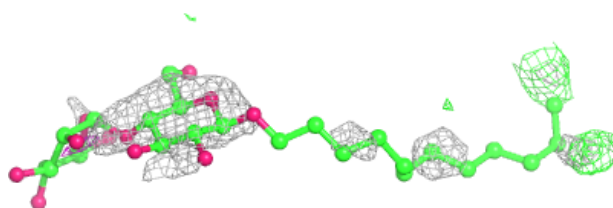
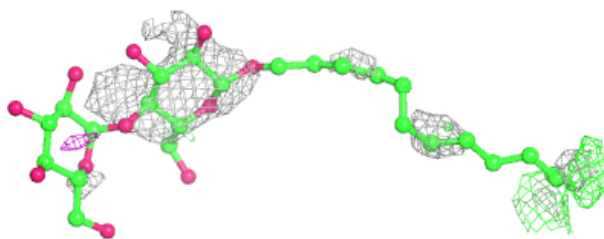
**Electron density around LMT a 418:**

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

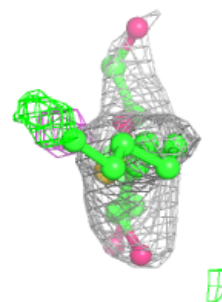
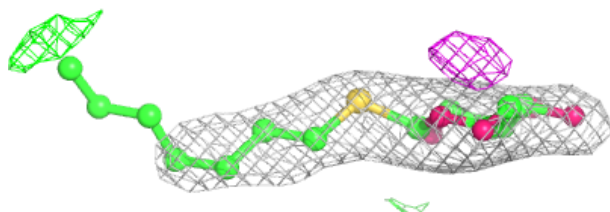
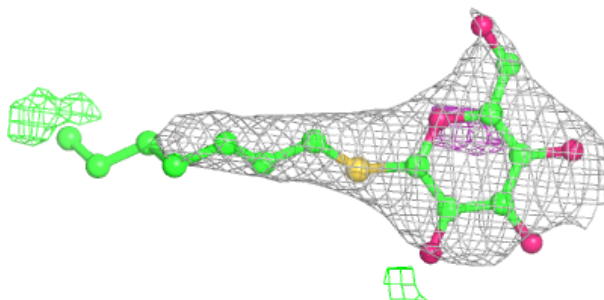


Electron density around LMT e 102:

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

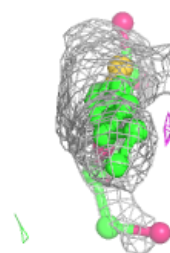
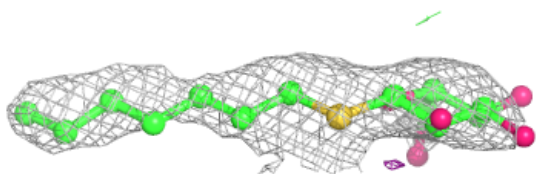
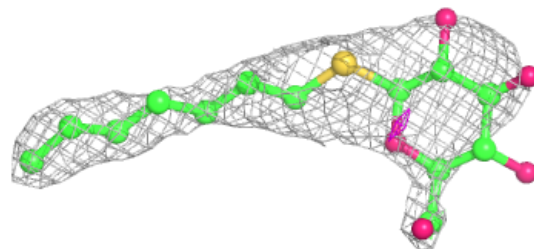
**Electron density around HTG C 523:**

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

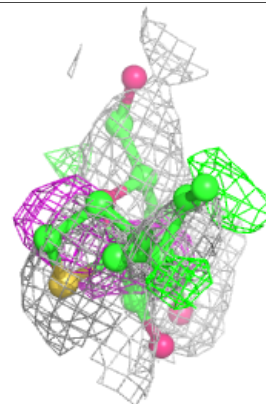
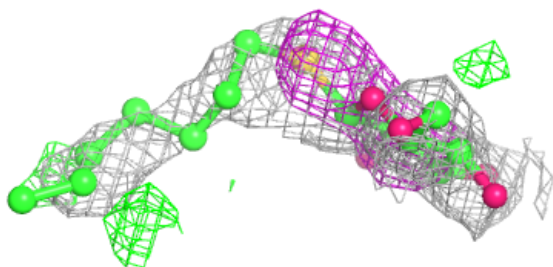
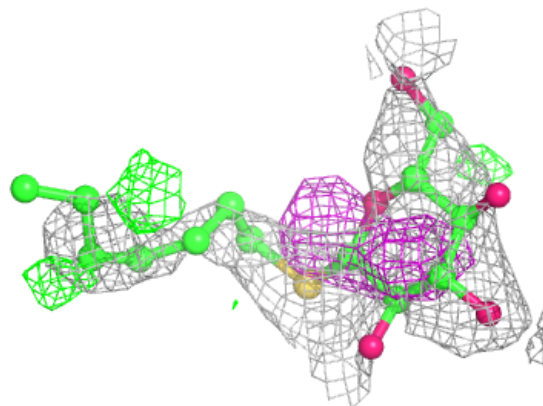


Electron density around HTG b 626:

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

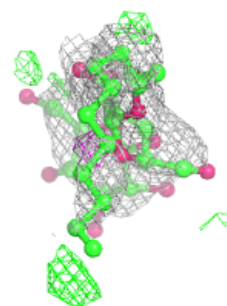
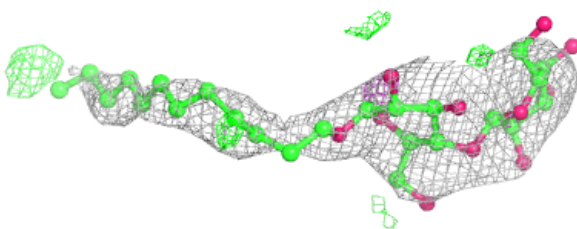
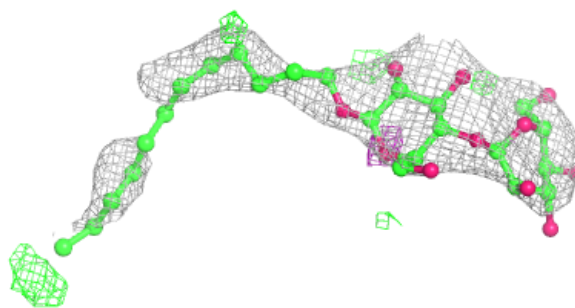
**Electron density around HTG B 625:**

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

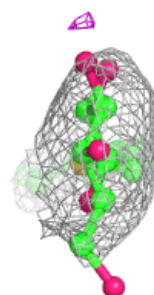
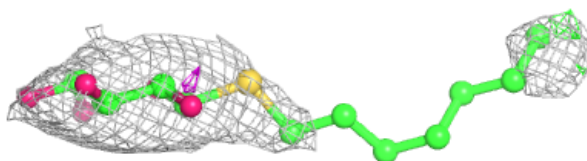
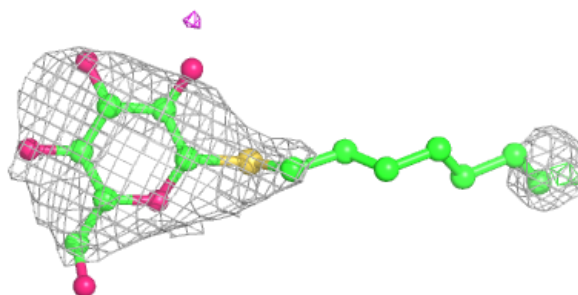


Electron density around LMT C 522:

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

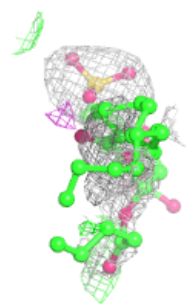
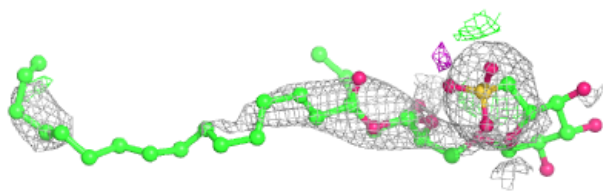
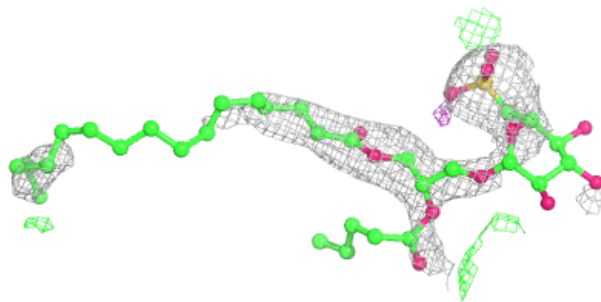
**Electron density around HTG c 521:**

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

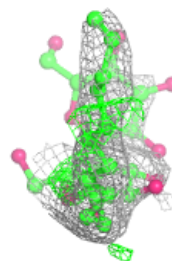
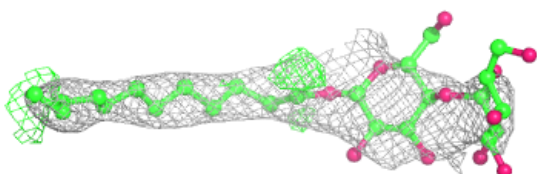
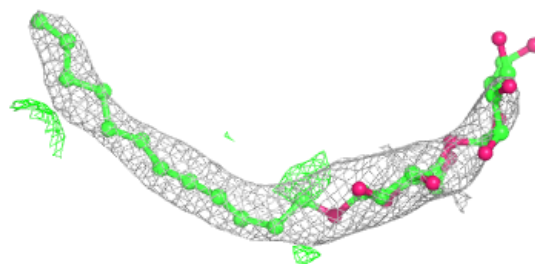


Electron density around SQD f 101:

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

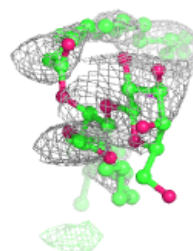
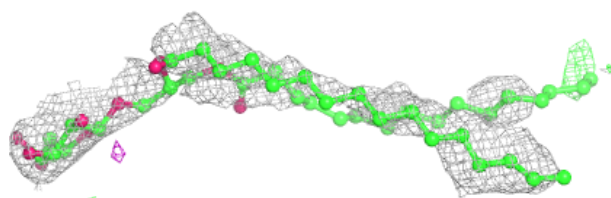
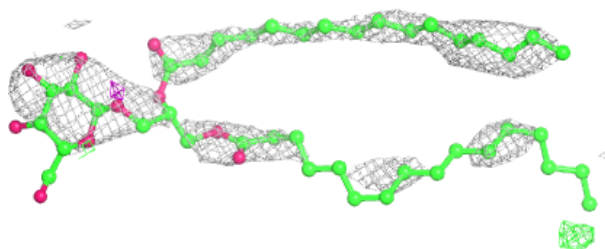
**Electron density around LMT M 103:**

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

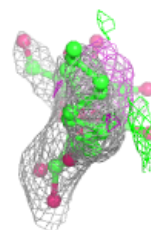
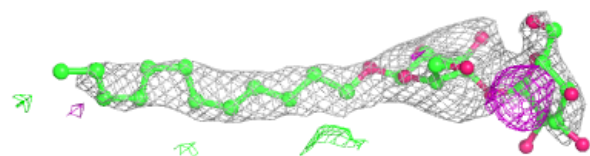
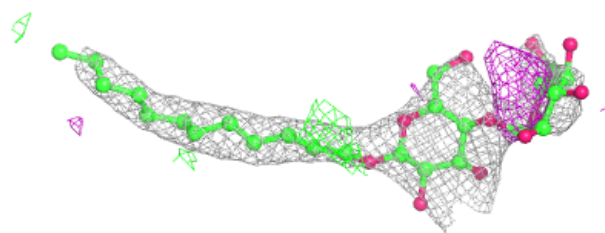


Electron density around LMG c 520:

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

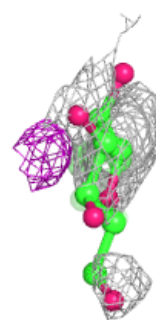
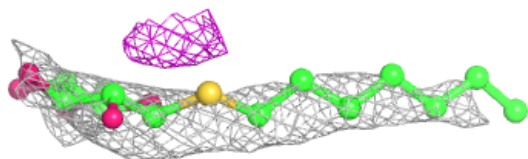
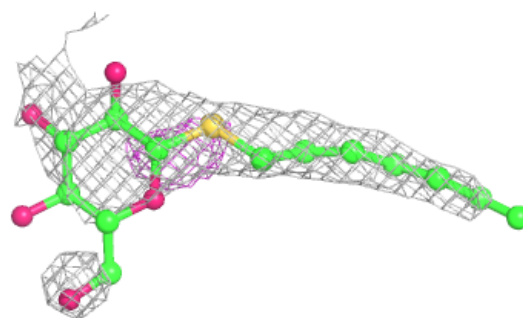
**Electron density around LMT B 623:**

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

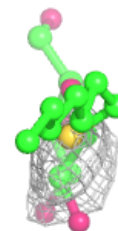
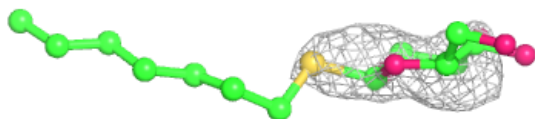
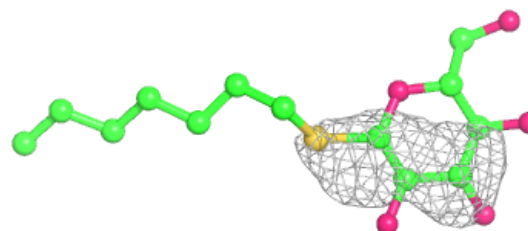


Electron density around HTG b 623:

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

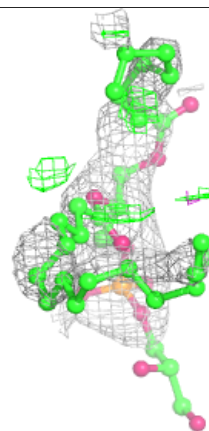
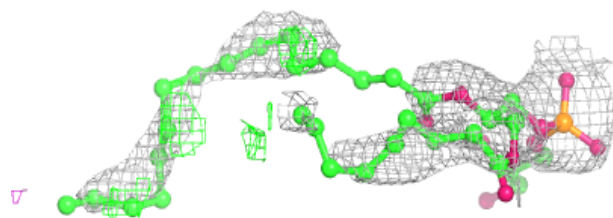
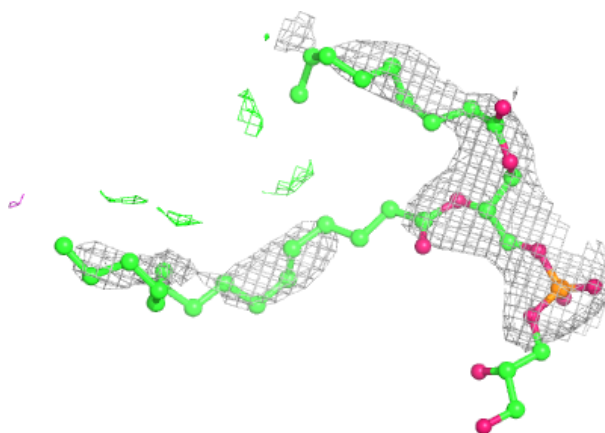
**Electron density around HTG c 522:**

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

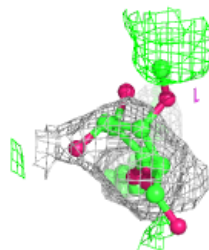
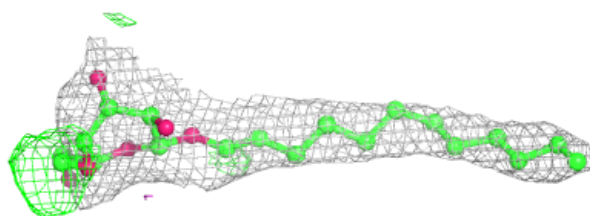
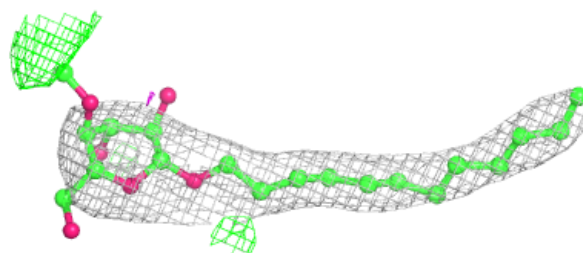


Electron density around LHG e 101:

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

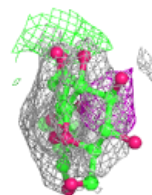
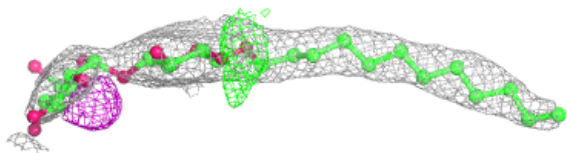
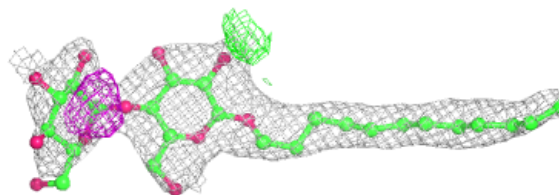
**Electron density around LMT b 620:**

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

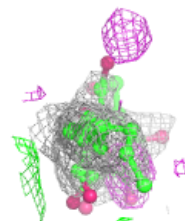
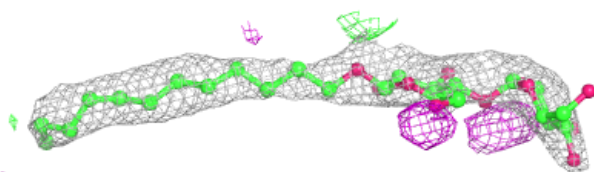
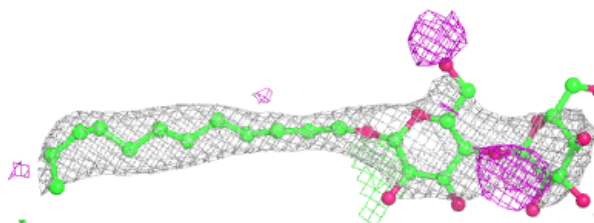


Electron density around LMT M 101:

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

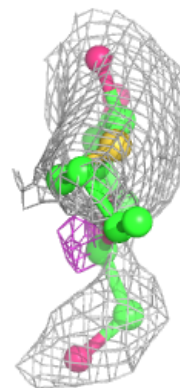
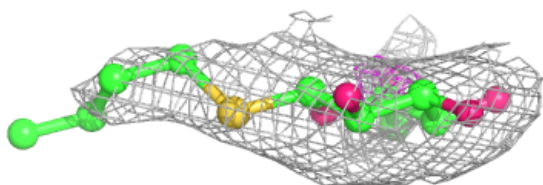
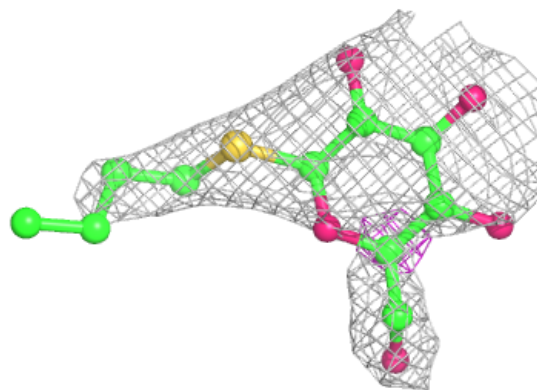
**Electron density around LMT m 103:**

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

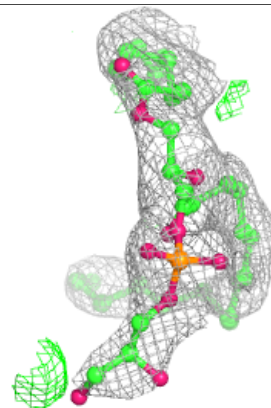
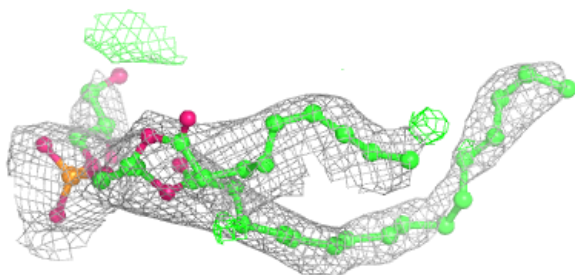
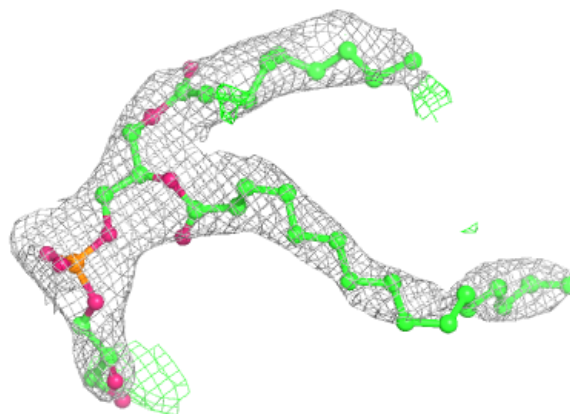


Electron density around HTG h 101:

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

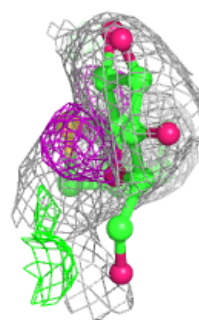
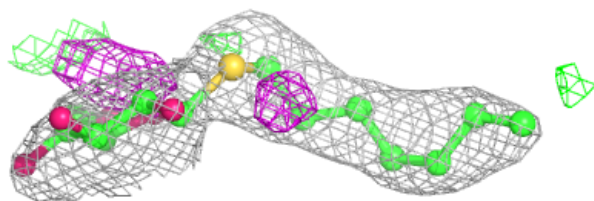
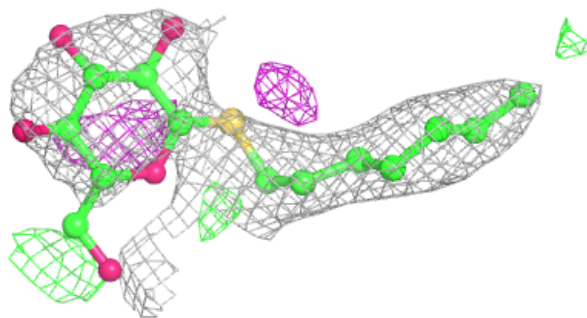
**Electron density around LHG E 101:**

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

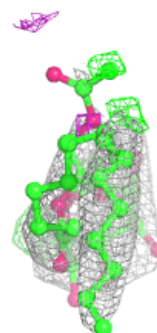
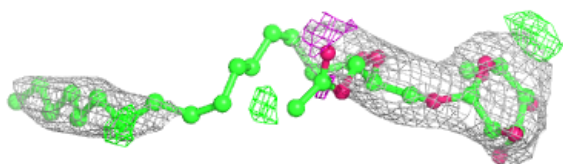
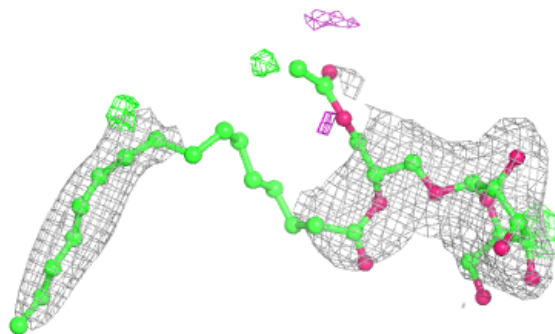


Electron density around HTG b 621:

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

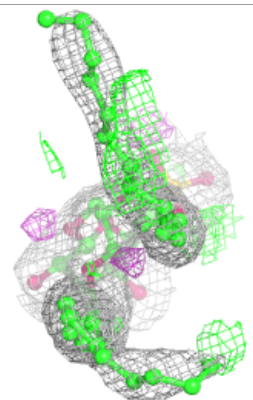
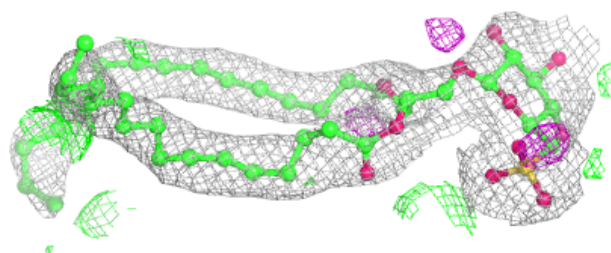
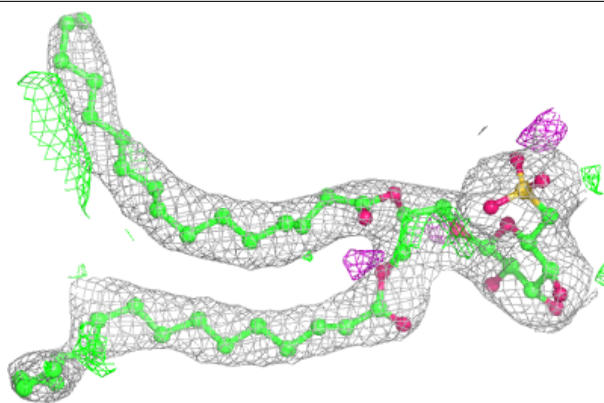
**Electron density around LMG Z 101:**

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

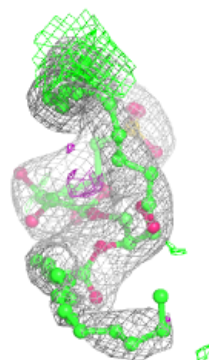
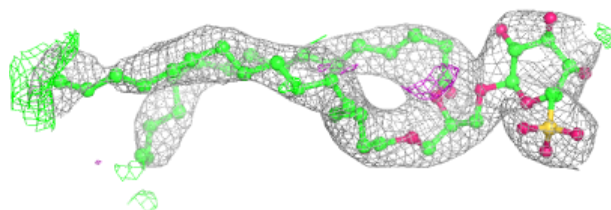
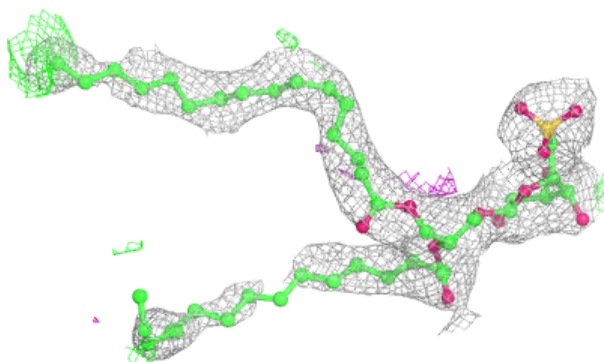


Electron density around SQD B 621:

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

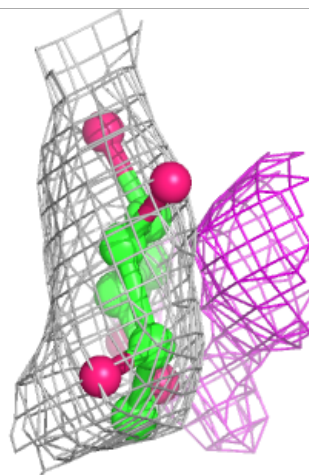
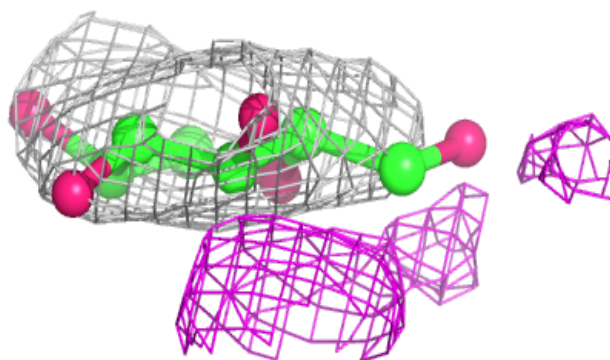
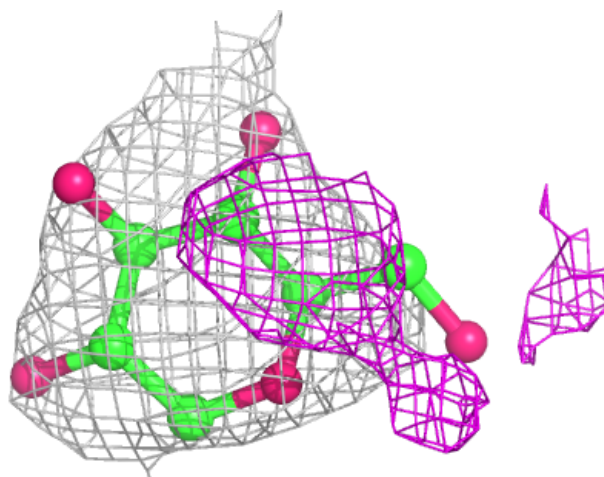
**Electron density around SQD a 413:**

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



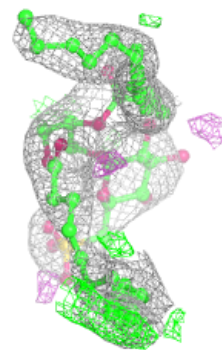
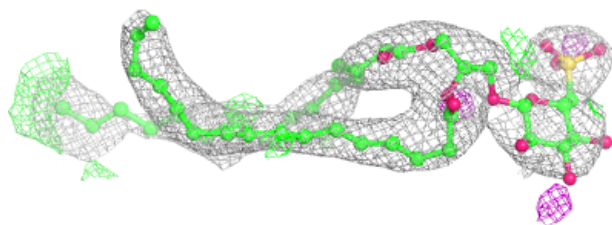
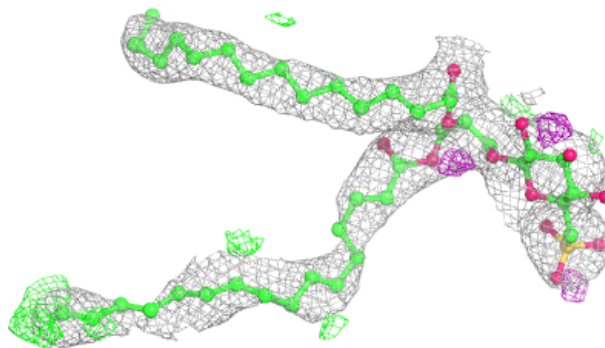
Electron density around HTG V 203:

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

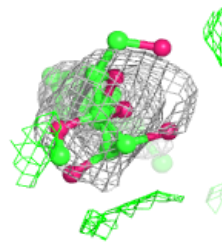
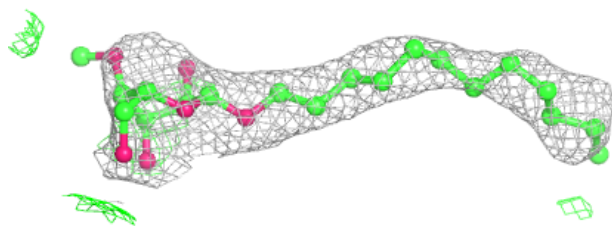
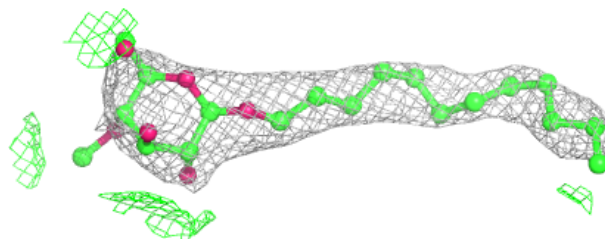


Electron density around SQD A 411:

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

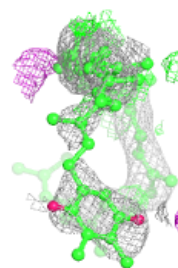
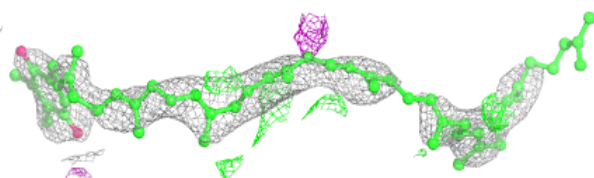
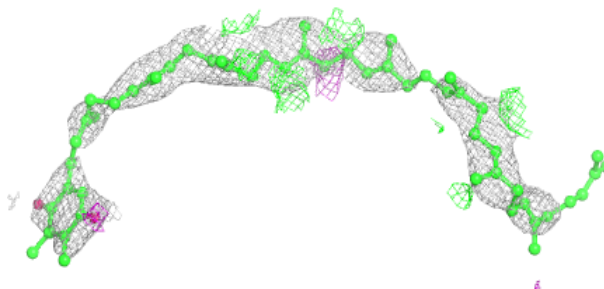
**Electron density around LMT B 632:**

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

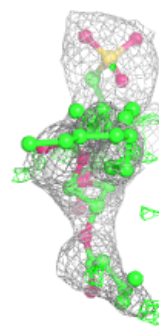
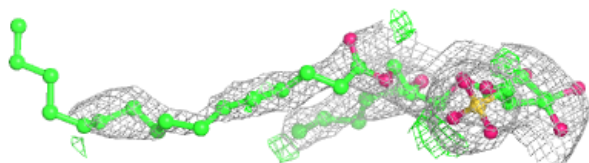
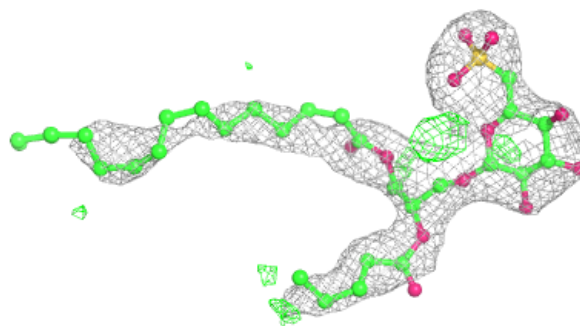


Electron density around PL9 a 415:

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

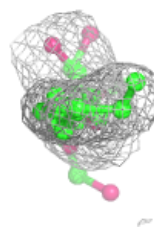
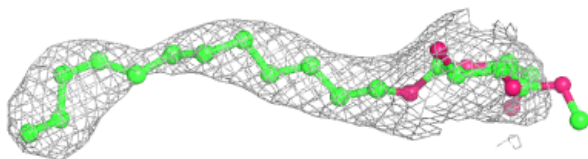
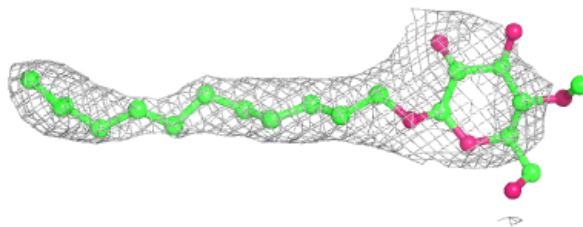
**Electron density around SQD D 413:**

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

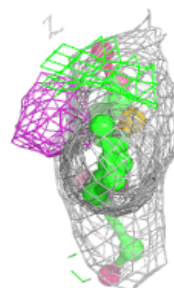
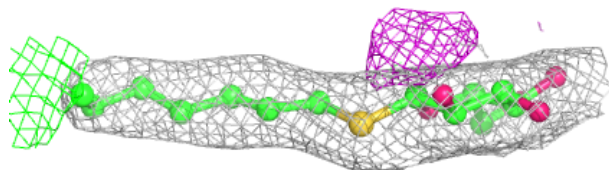
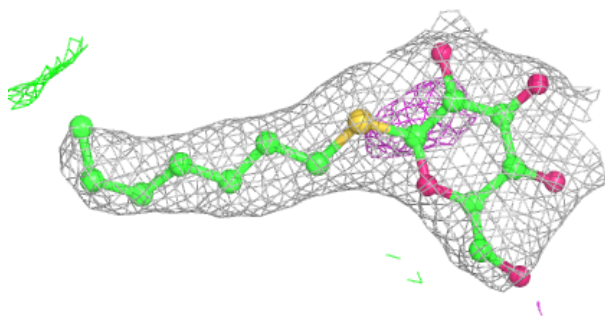


Electron density around LMT b 628:

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

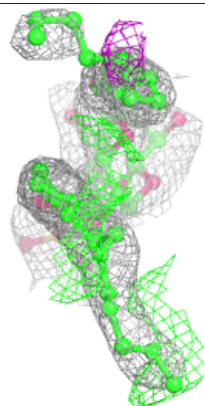
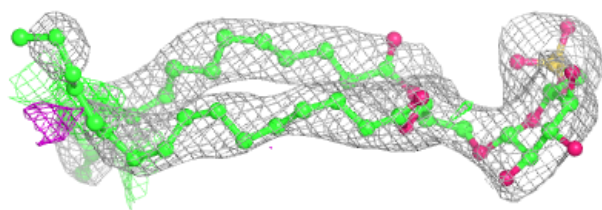
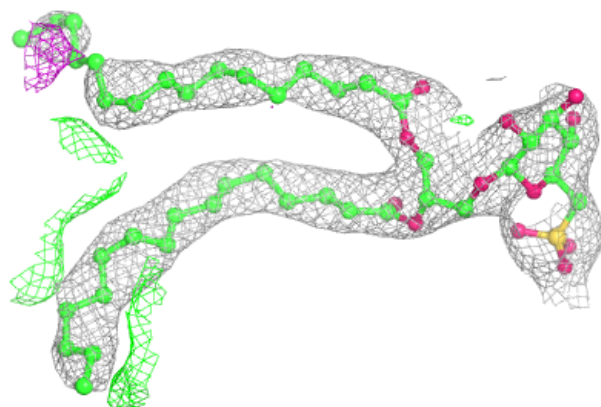
**Electron density around HTG B 629:**

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

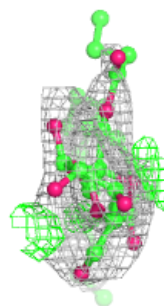
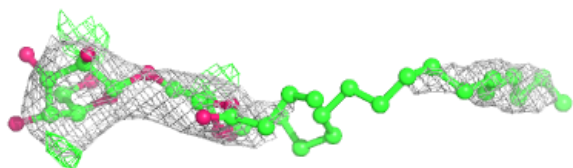
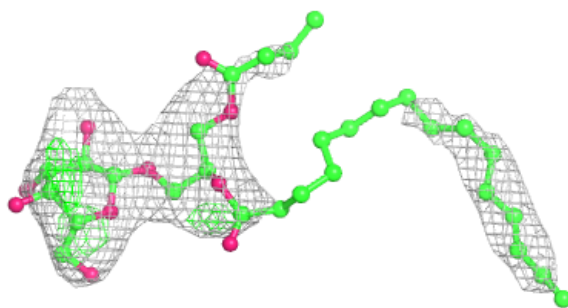


Electron density around SQD L 102:

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

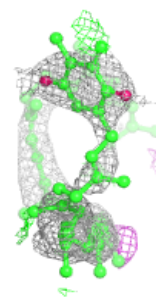
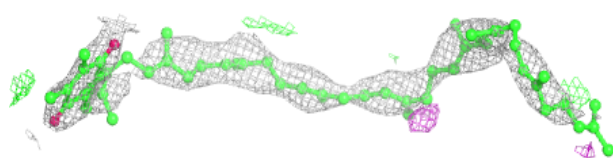
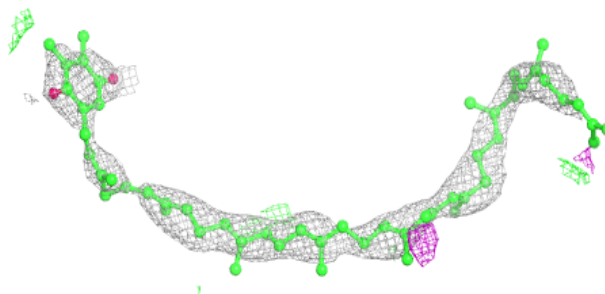
**Electron density around LMG z 101:**

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

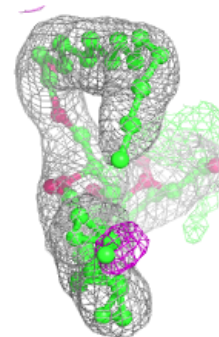
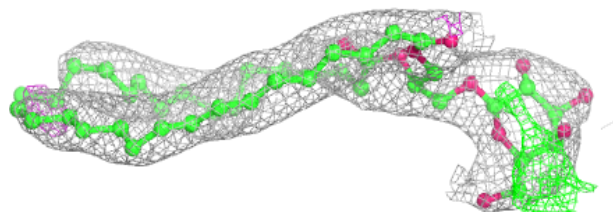
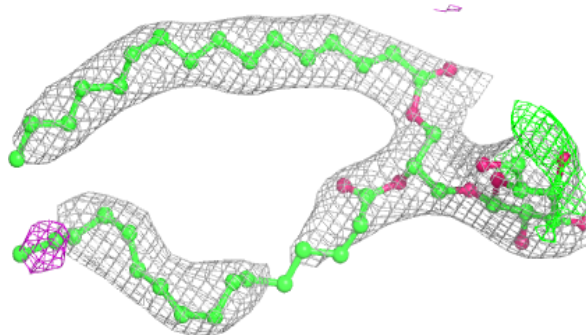


Electron density around PL9 A 413:

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

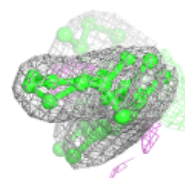
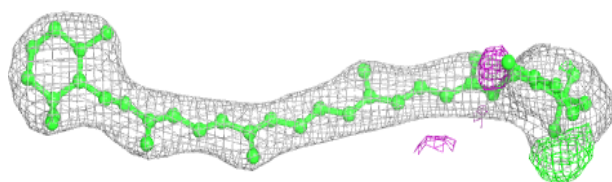
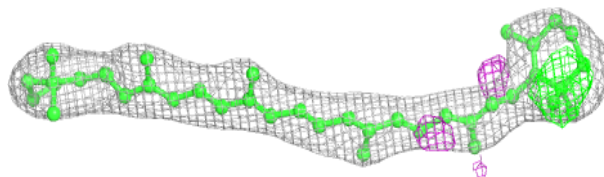
**Electron density around LMG C 501:**

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

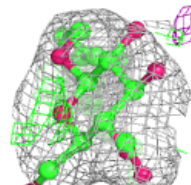
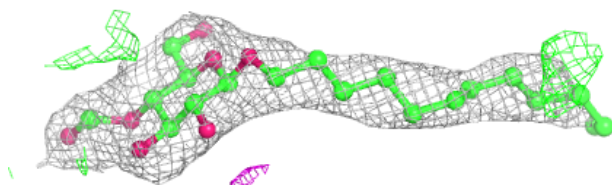
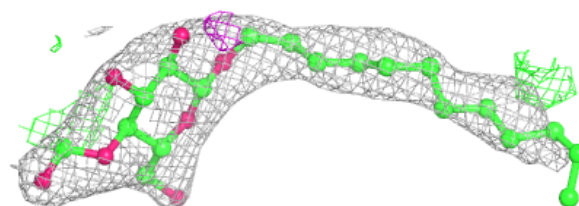


Electron density around BCR D 406:

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

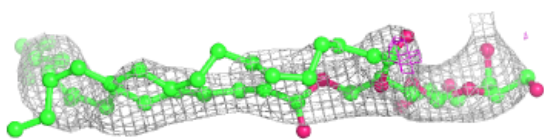
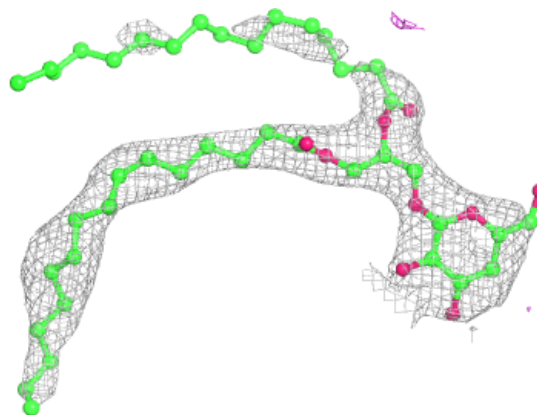
**Electron density around LMT B 634:**

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

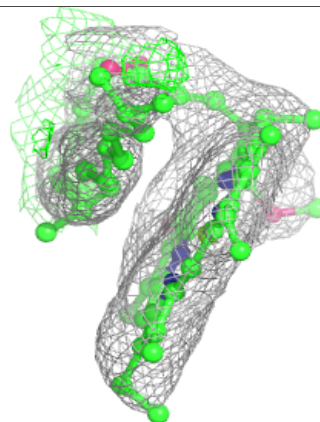
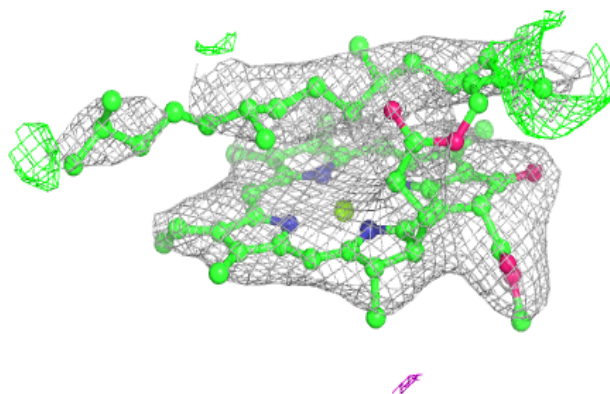
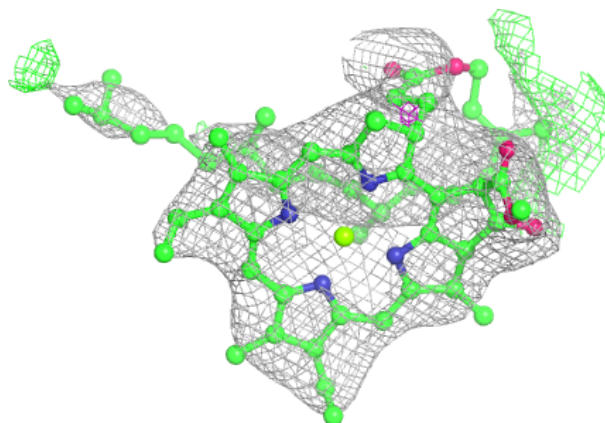


Electron density around LMG C 520:

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

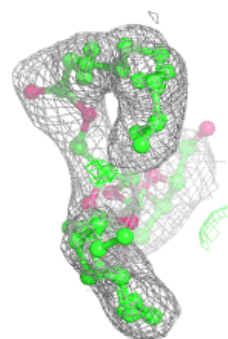
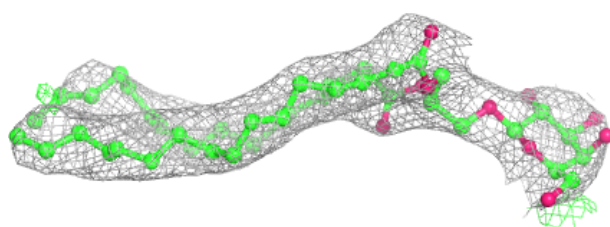
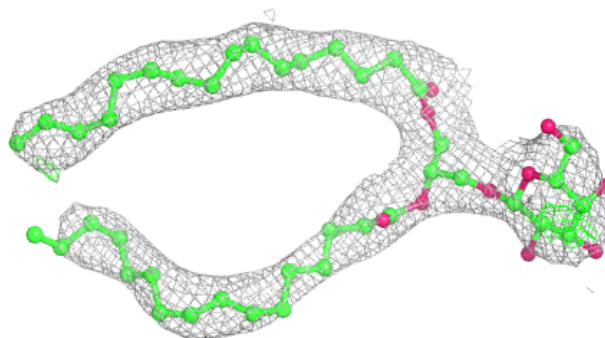
**Electron density around CLA b 601:**

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

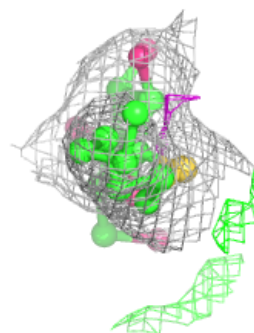
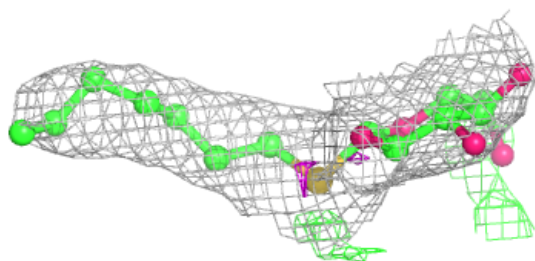
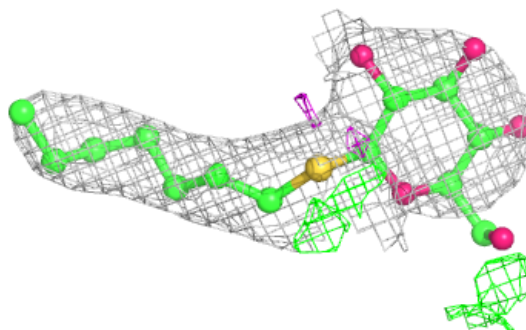


Electron density around LMG a 417:

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

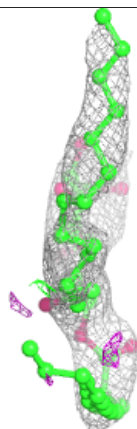
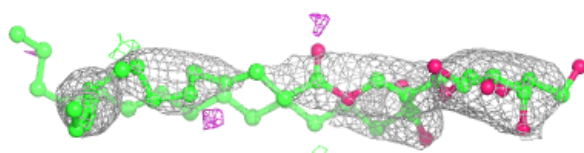
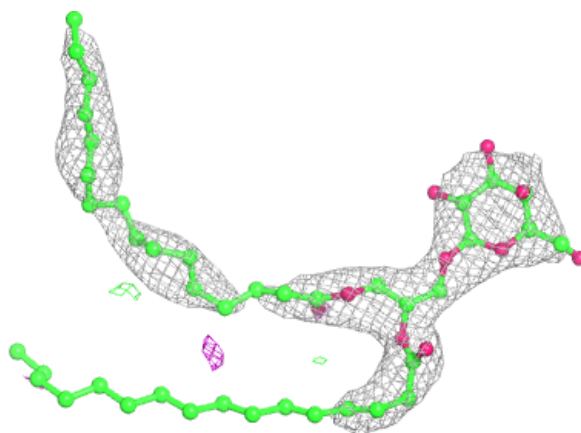
**Electron density around HTG B 624:**

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

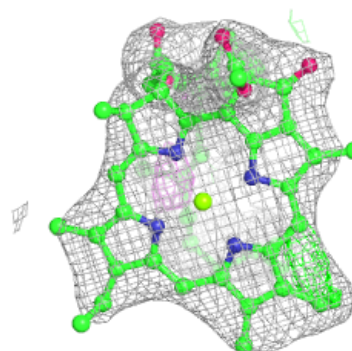
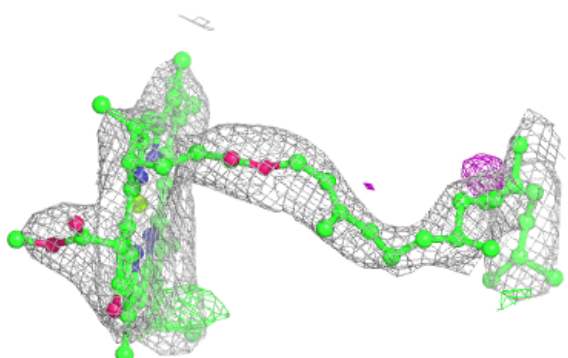
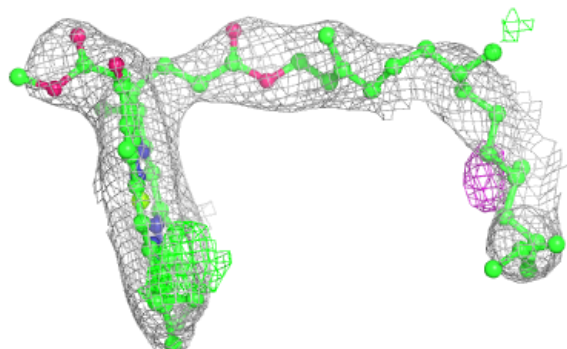


Electron density around LMG c 519:

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

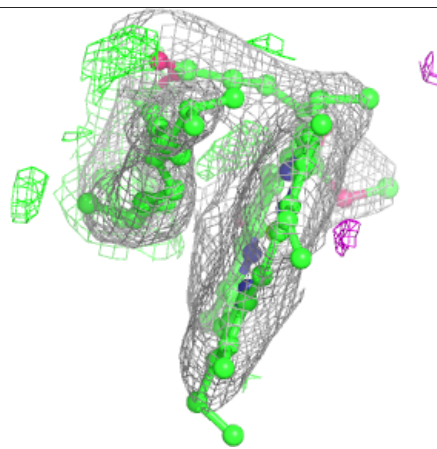
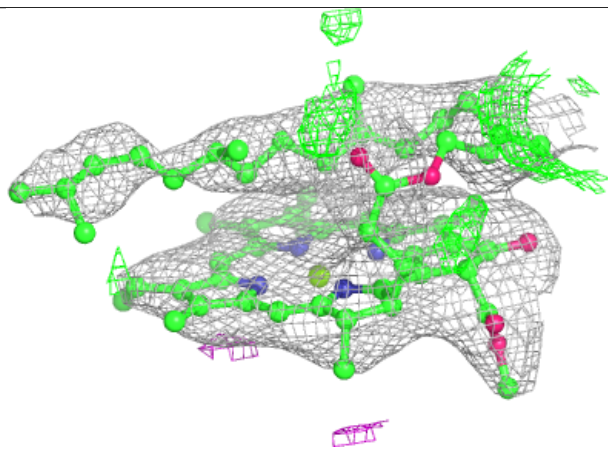
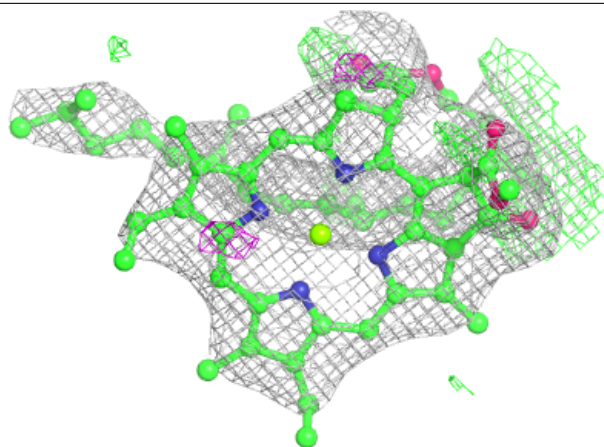
**Electron density around CLA C 507:**

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

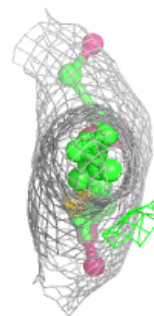
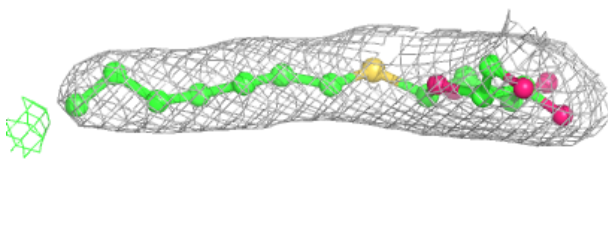
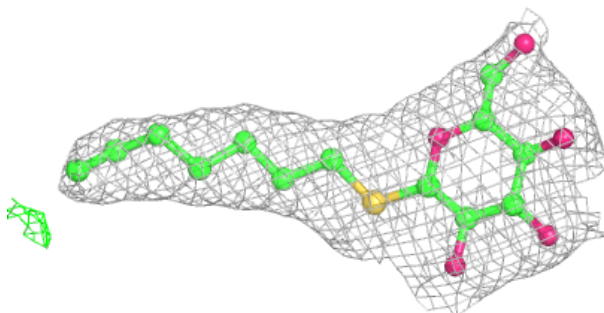


Electron density around CLA B 602:

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

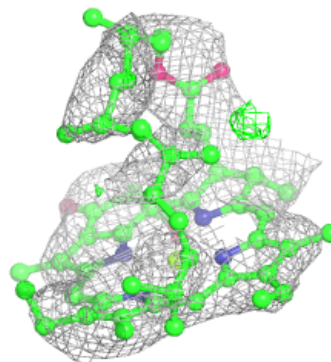
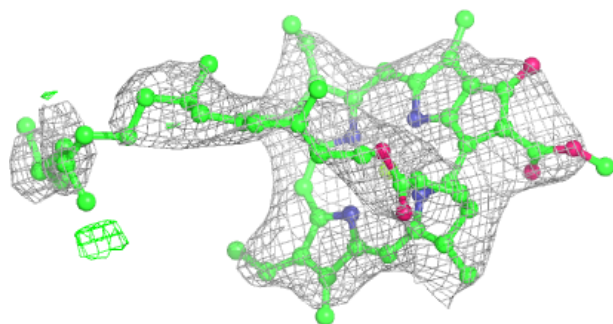
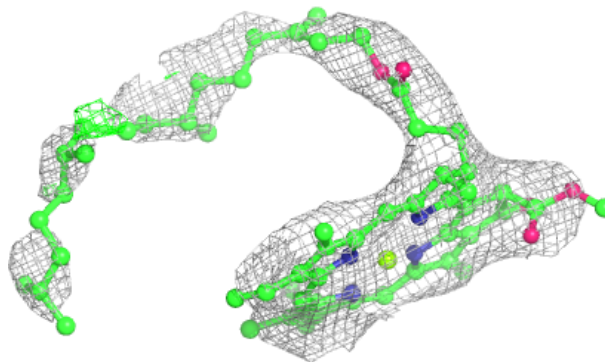
**Electron density around HTG b 625:**

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

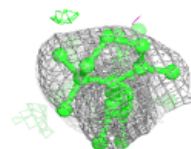
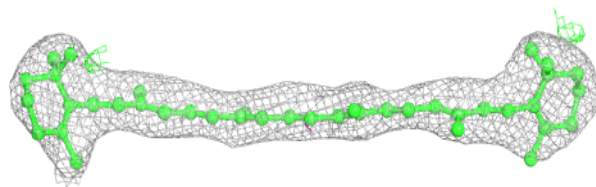
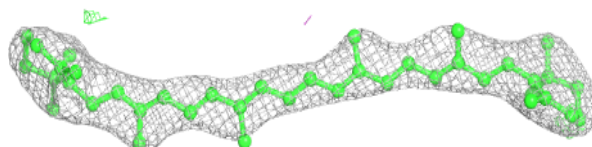


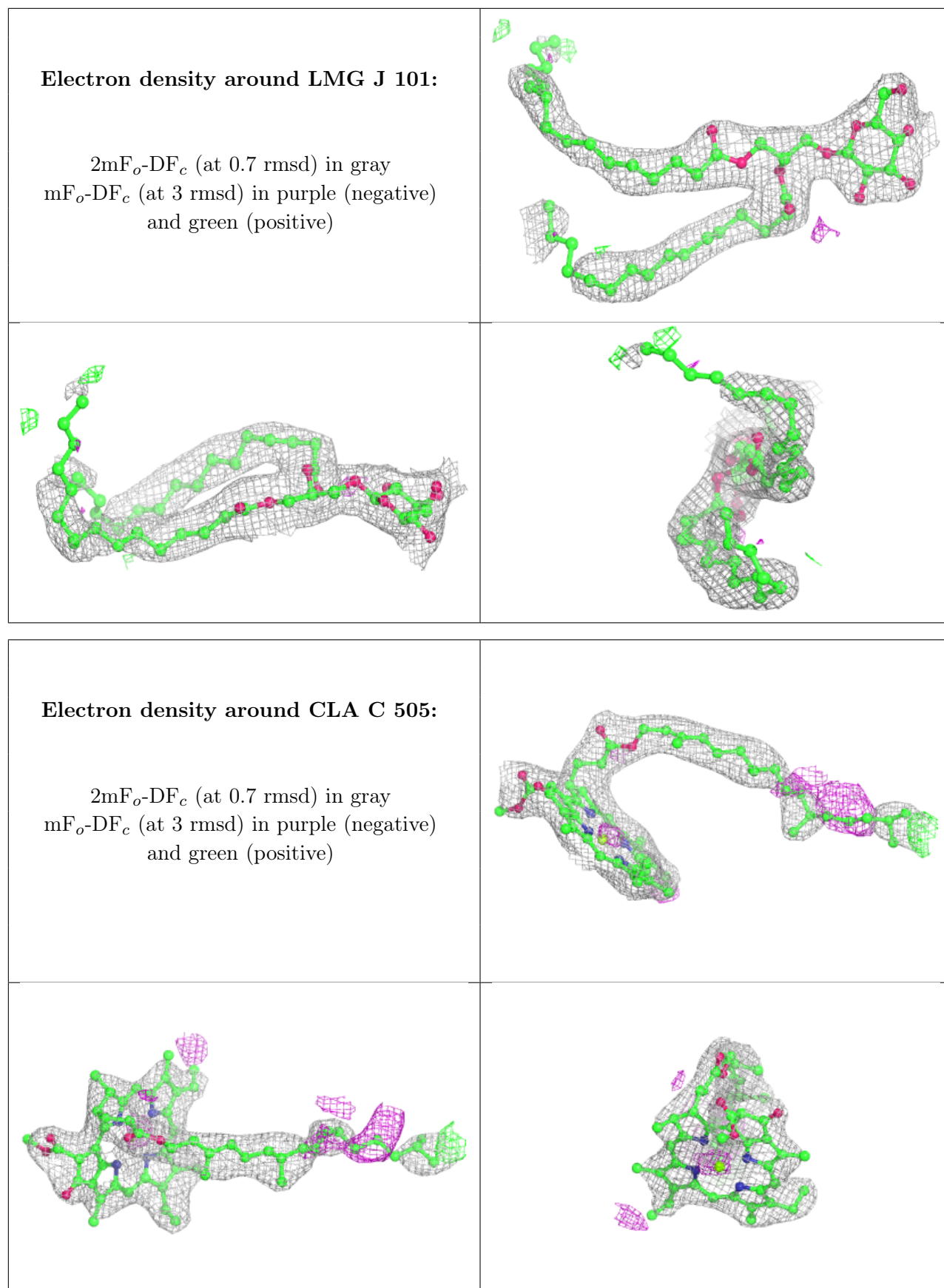
Electron density around CLA c 513:

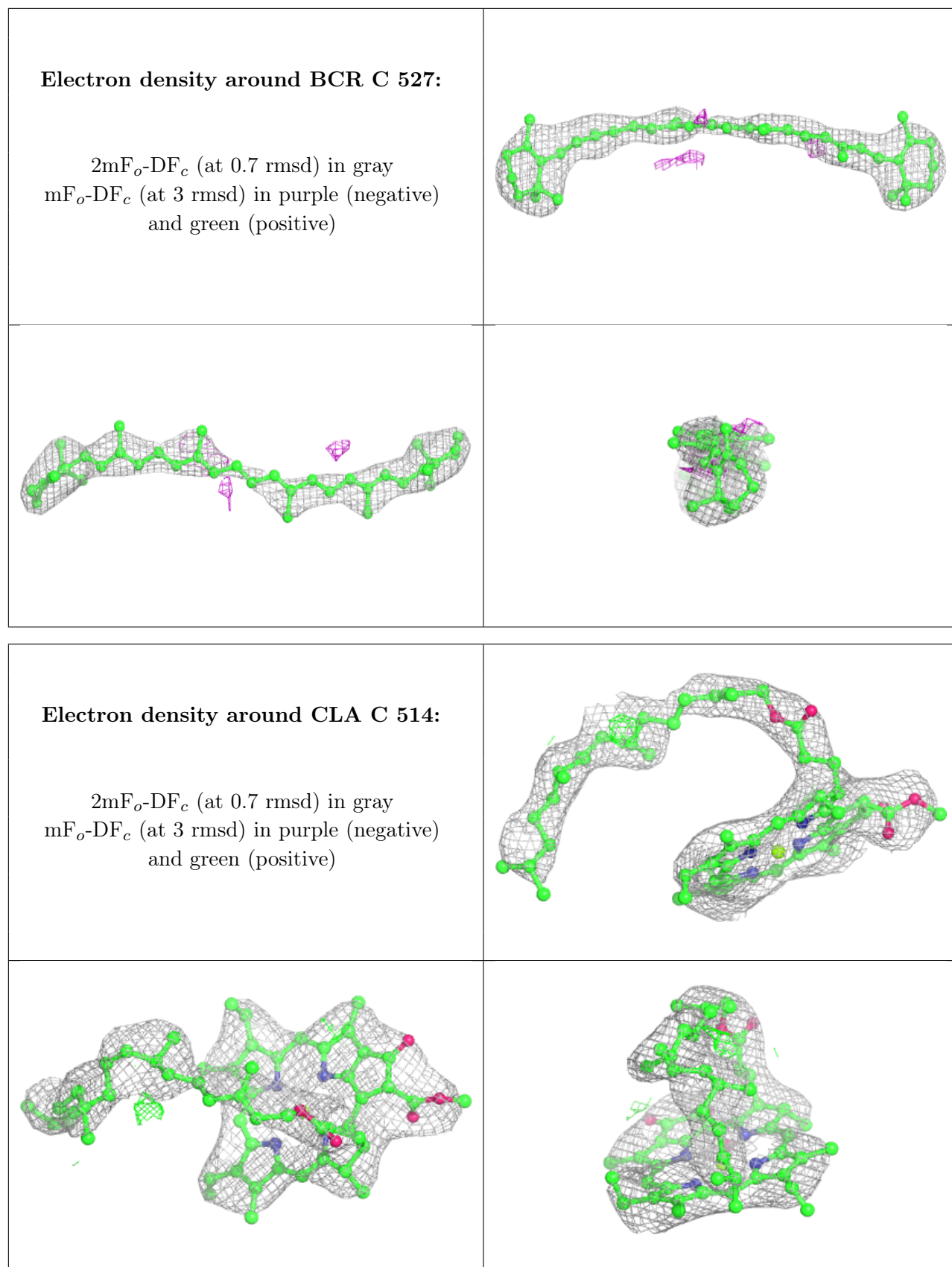
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

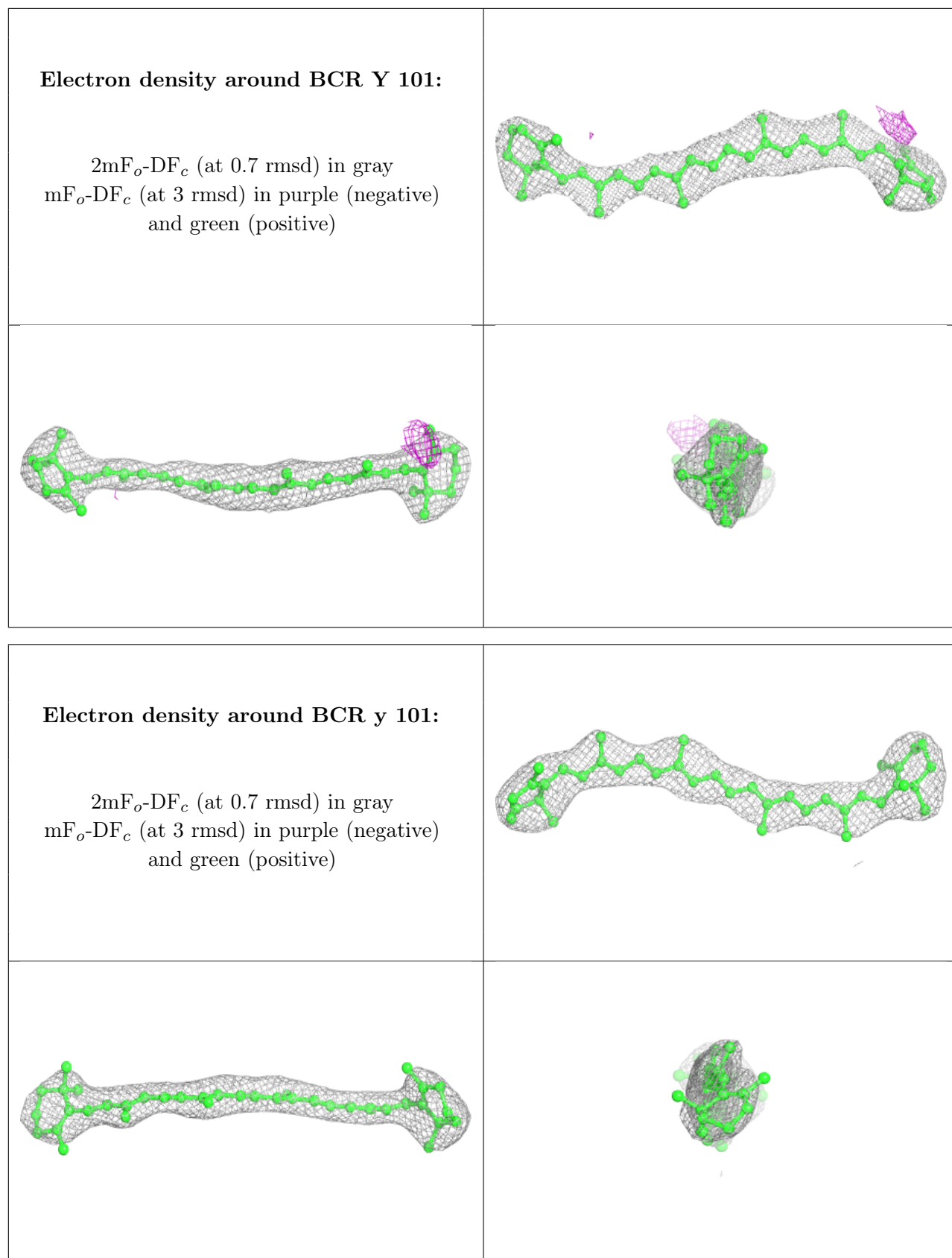
**Electron density around BCR C 515:**

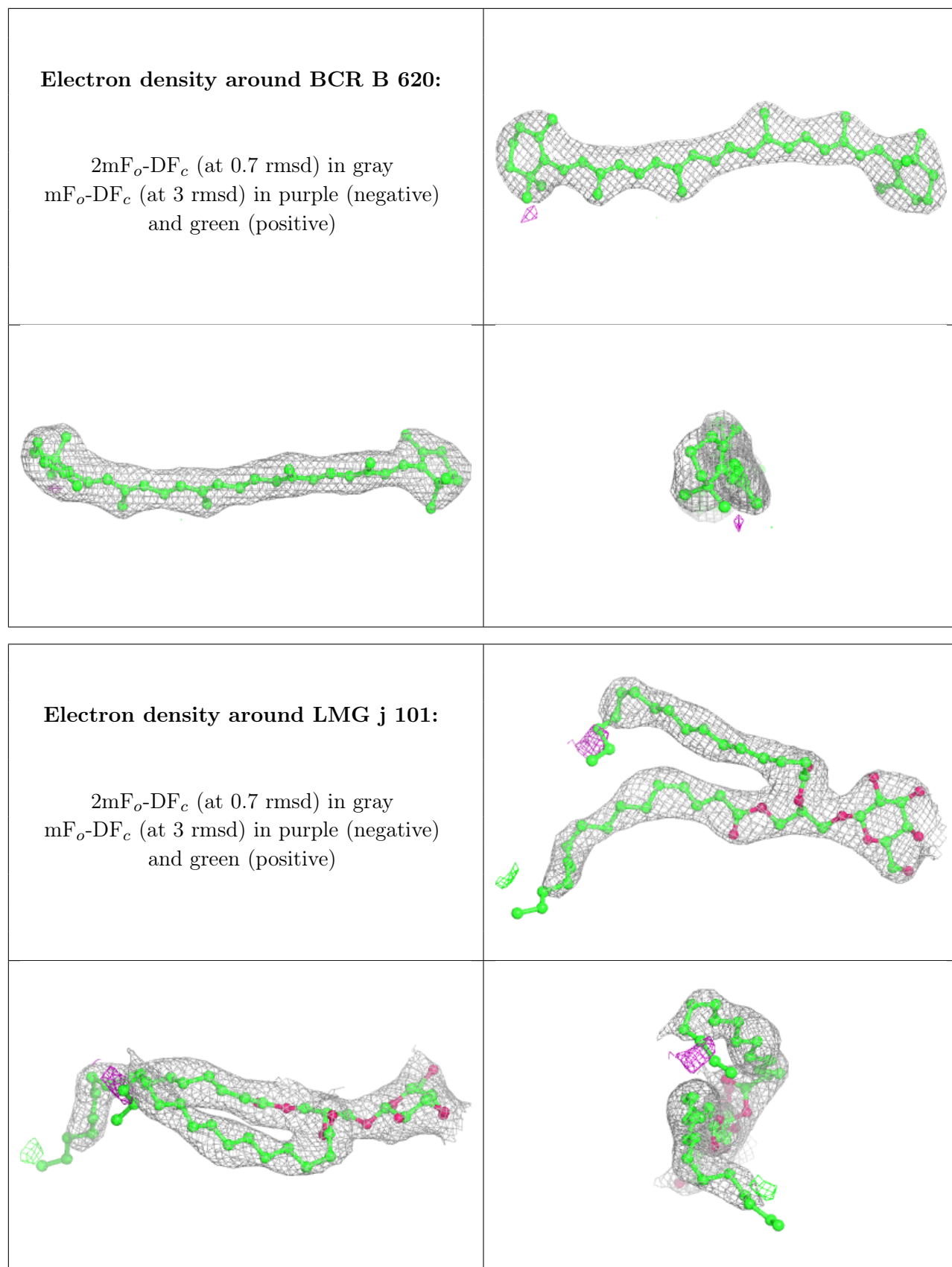
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





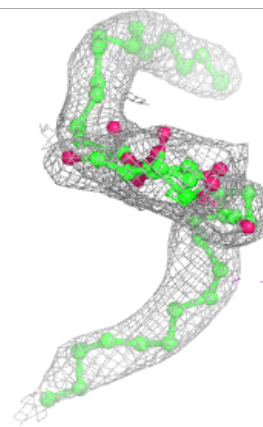
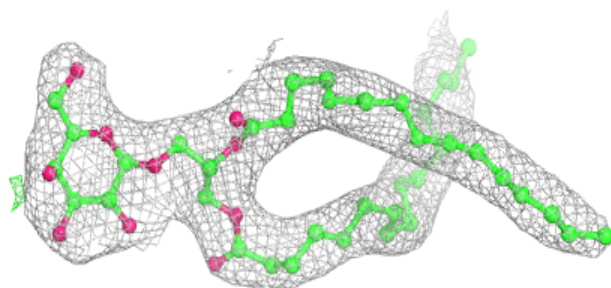
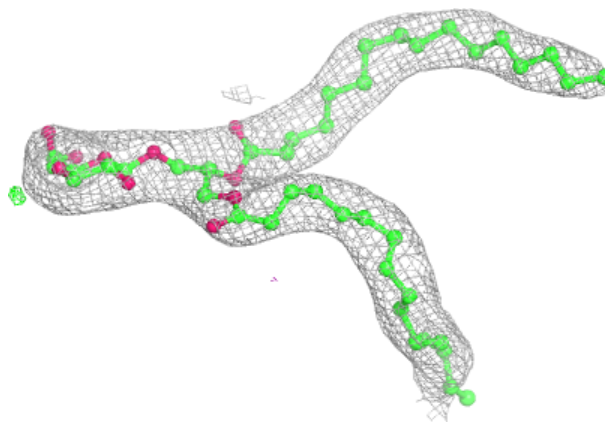






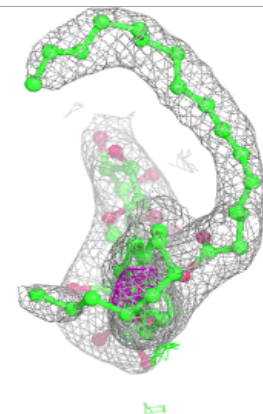
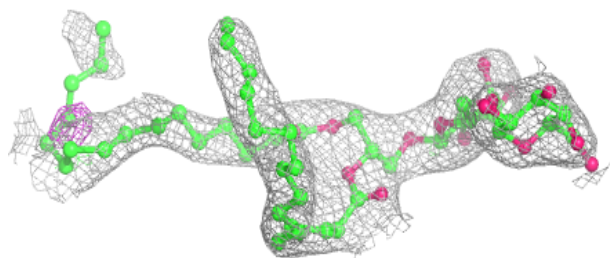
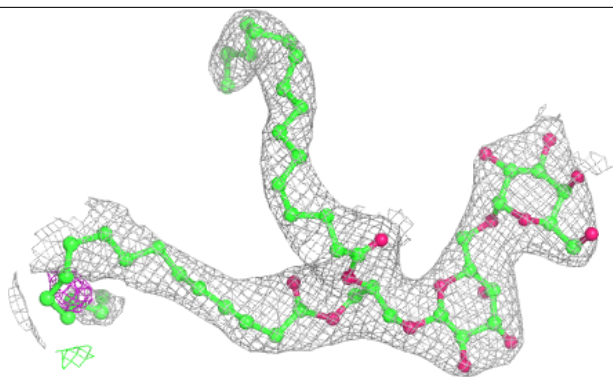
Electron density around LMG B 622:

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



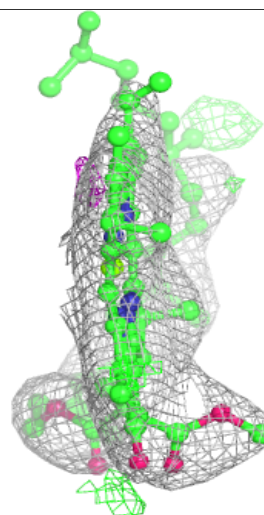
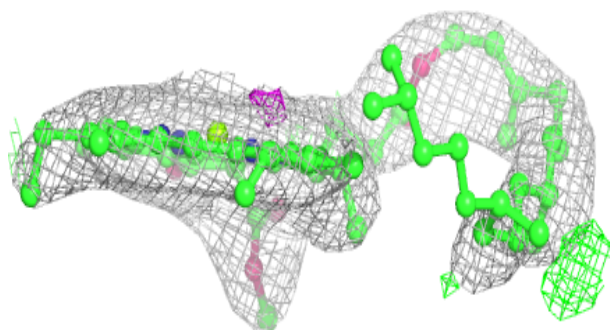
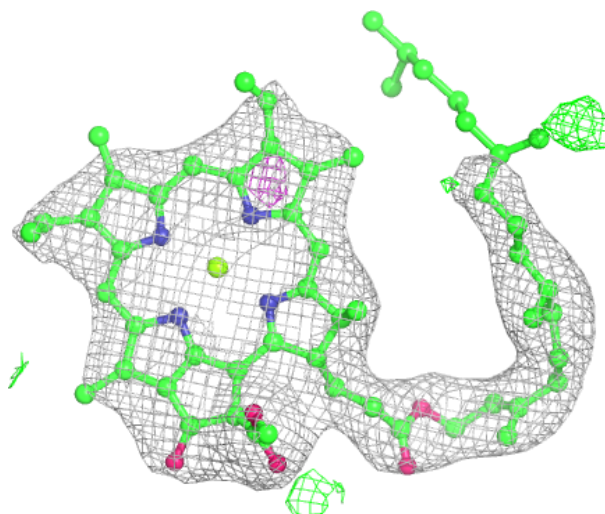
Electron density around DGD c 517:

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



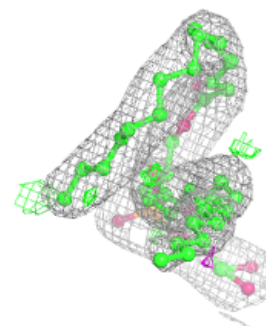
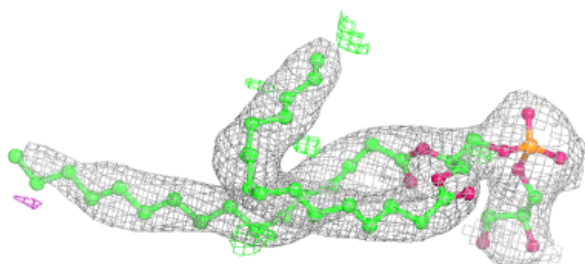
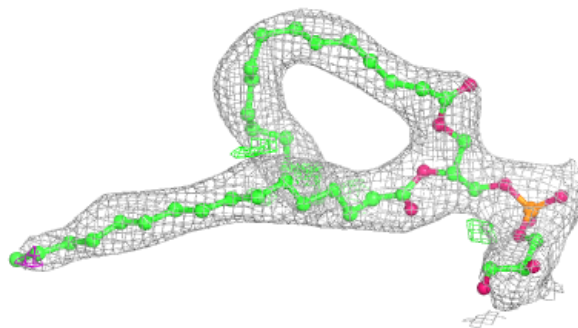
Electron density around CLA C 513:

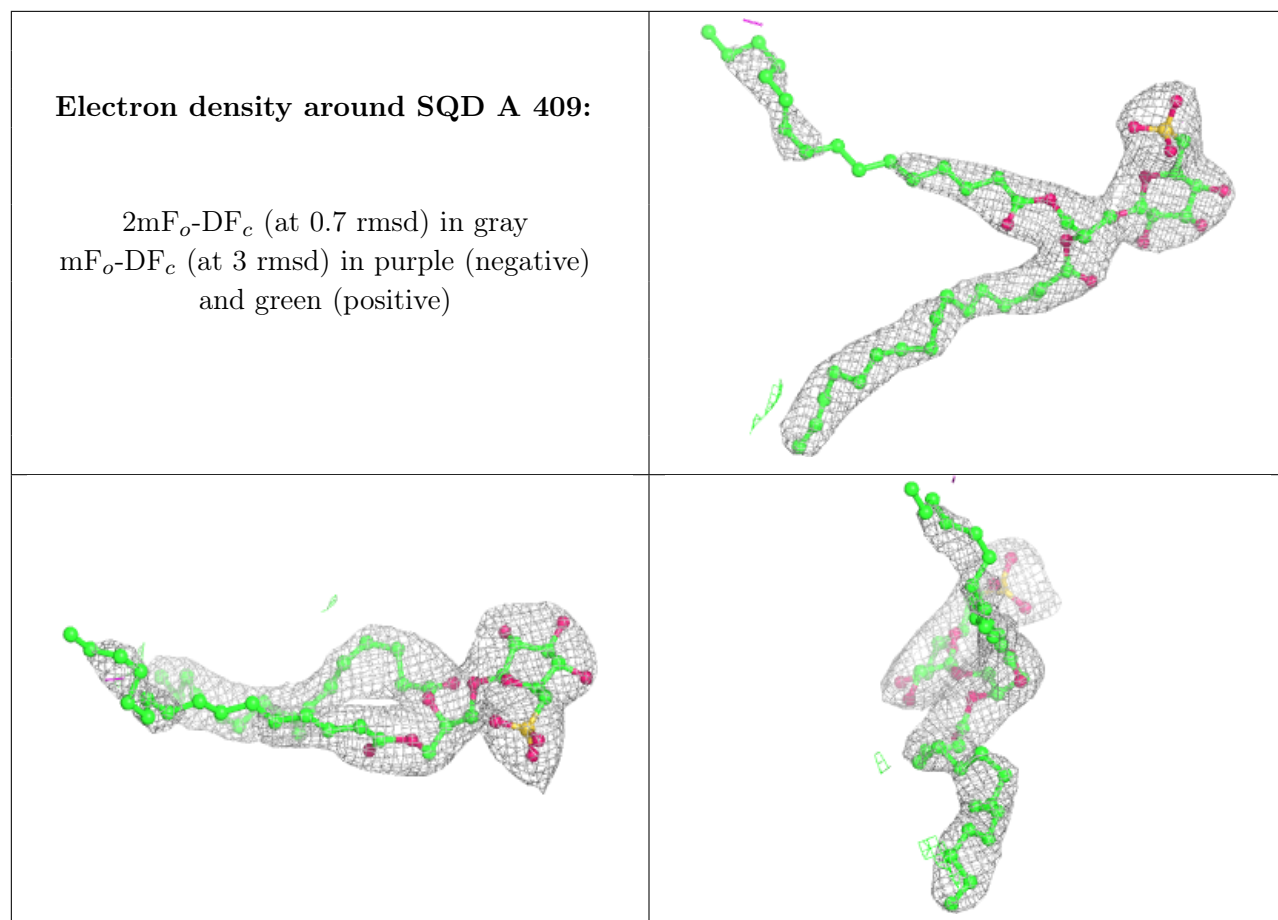
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around LHG d 406:

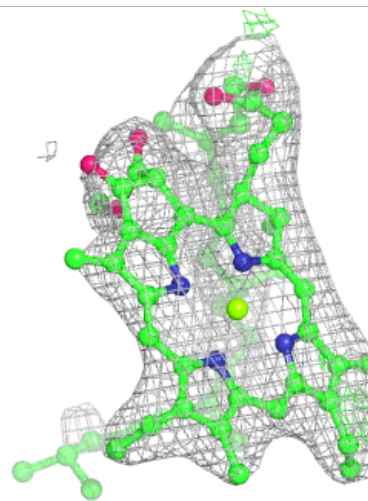
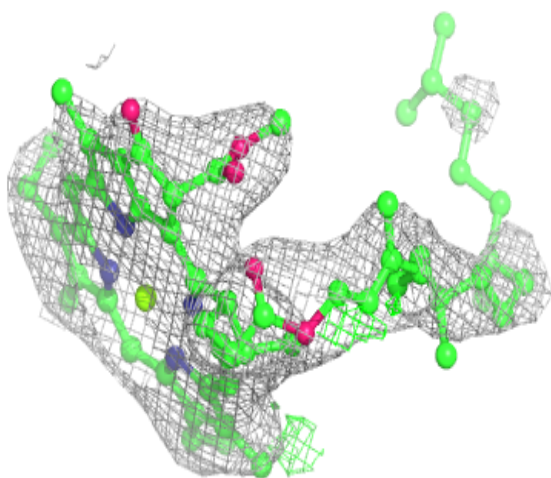
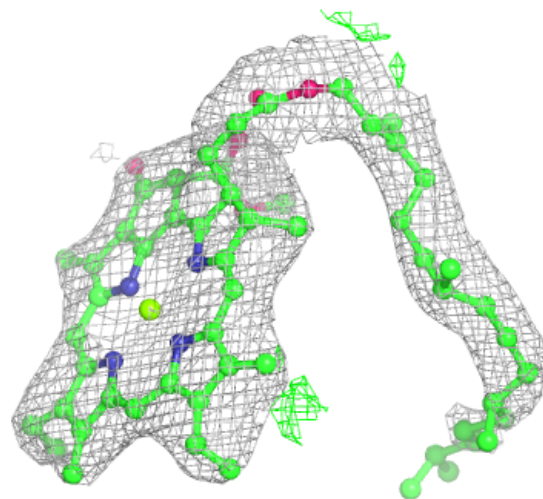
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





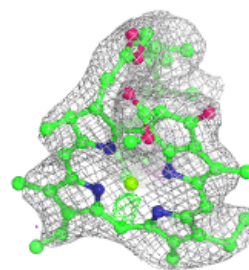
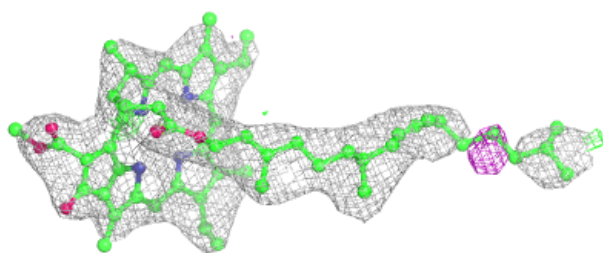
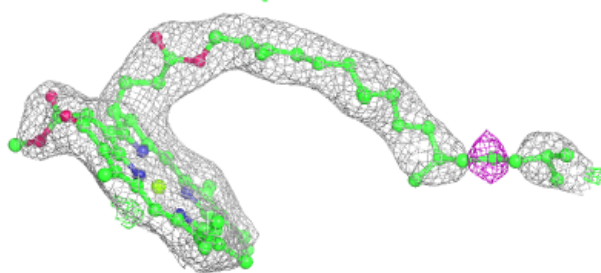
Electron density around CLA b 616:

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

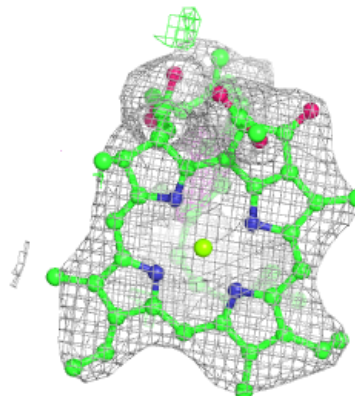
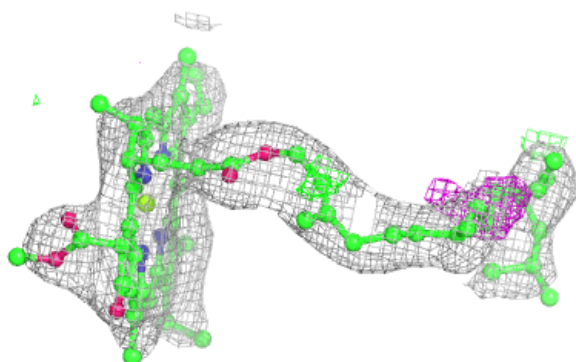
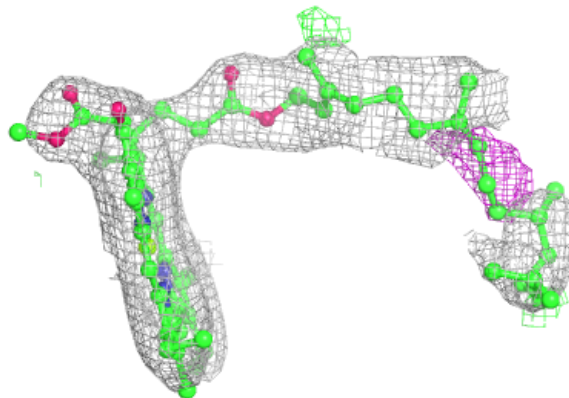


Electron density around CLA c 504:

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

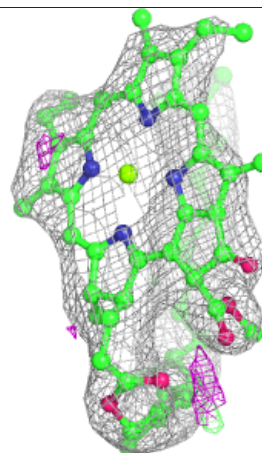
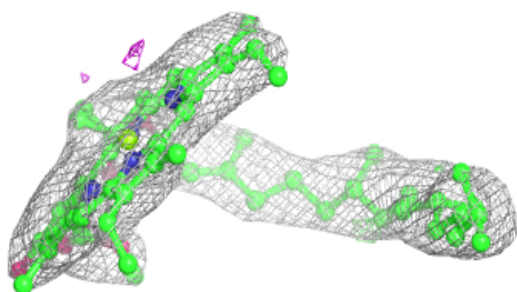
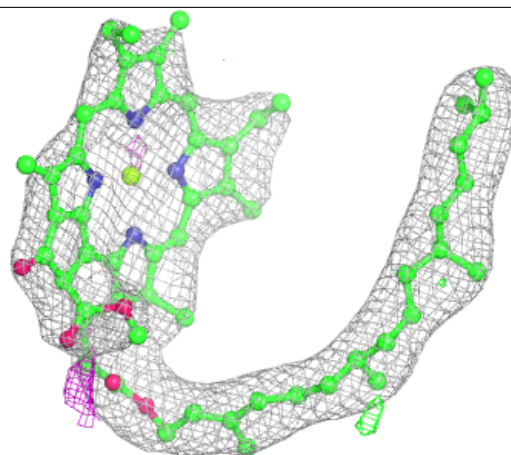
**Electron density around CLA c 506:**

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

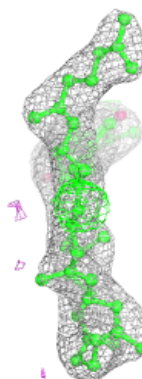
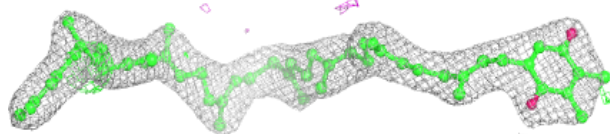
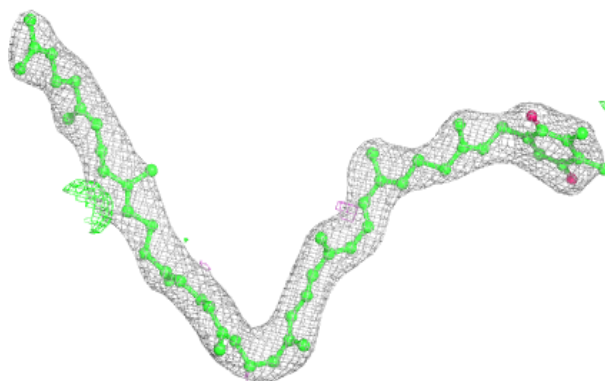


Electron density around CLA c 507:

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

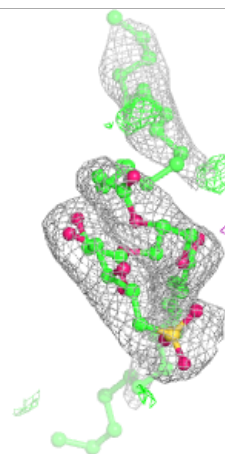
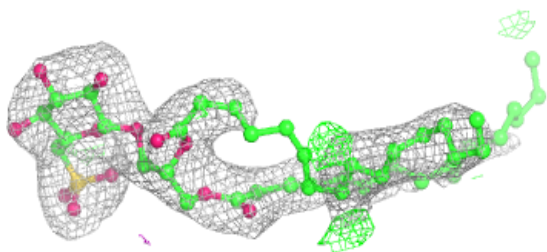
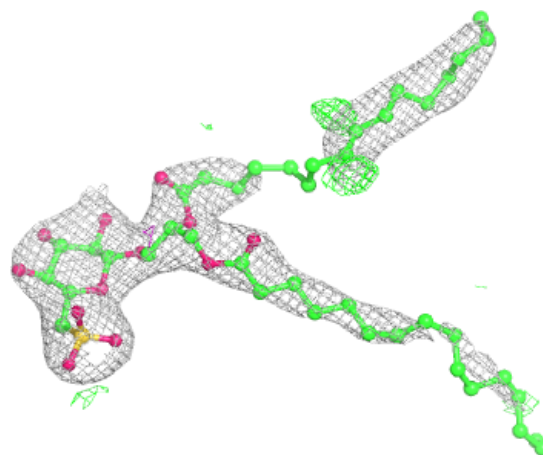
**Electron density around PL9 D 407:**

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



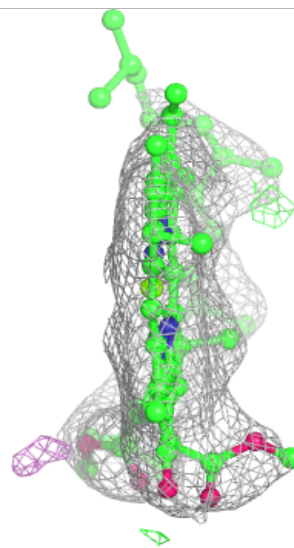
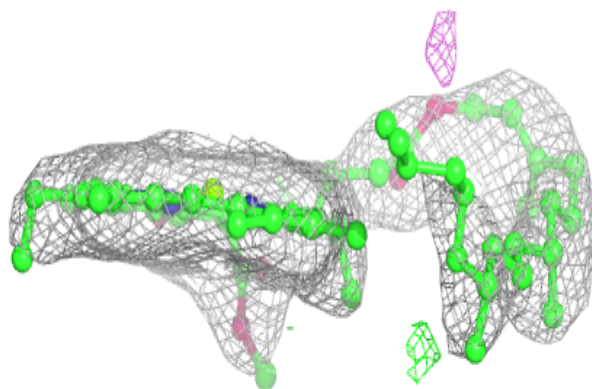
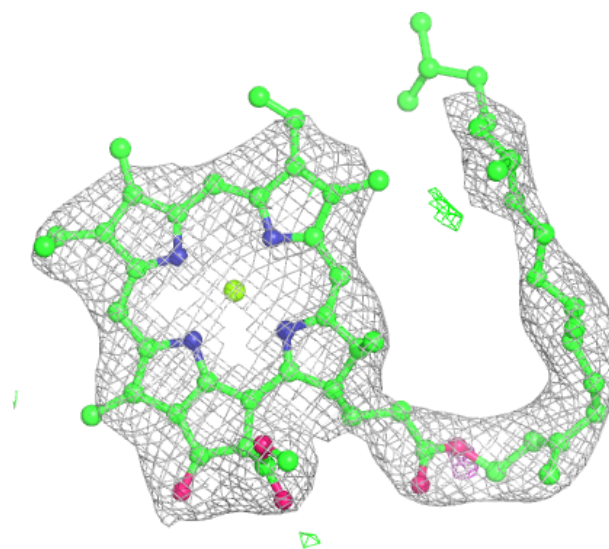
Electron density around SQD a 411:

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



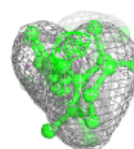
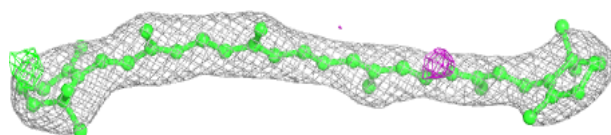
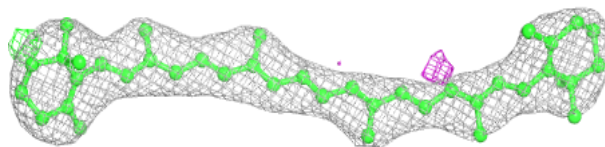
Electron density around CLA c 512:

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

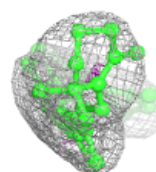
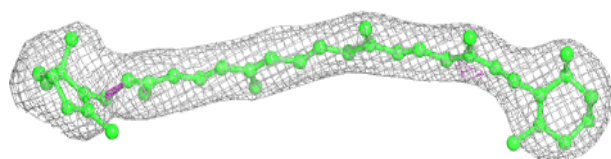
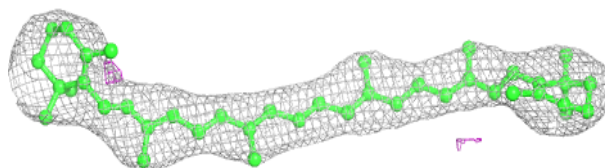


Electron density around BCR b 619:

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

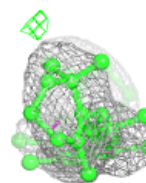
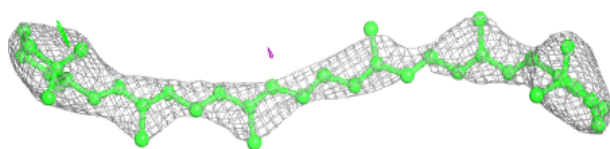
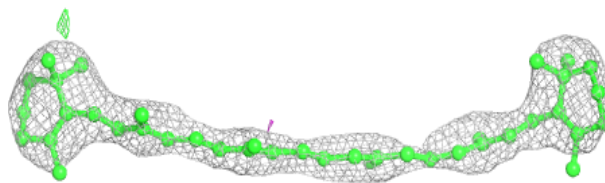
**Electron density around BCR d 404:**

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

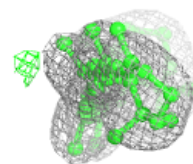
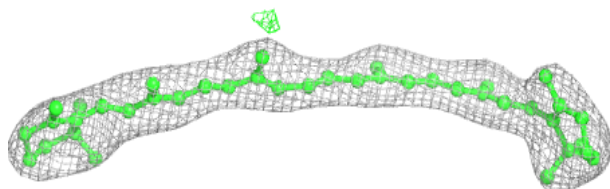
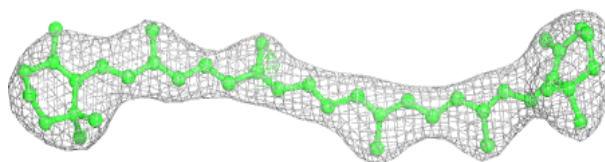


Electron density around BCR k 101:

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

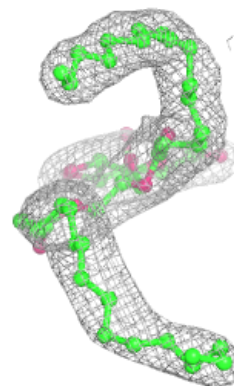
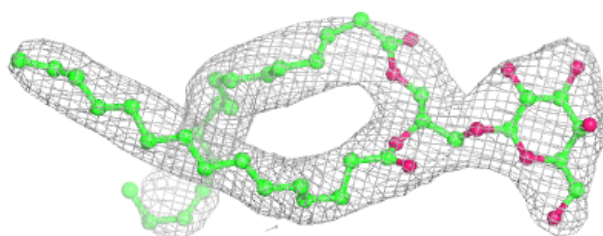
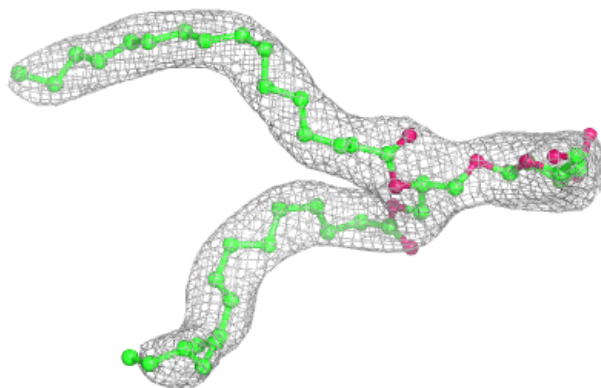
**Electron density around BCR t 101:**

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

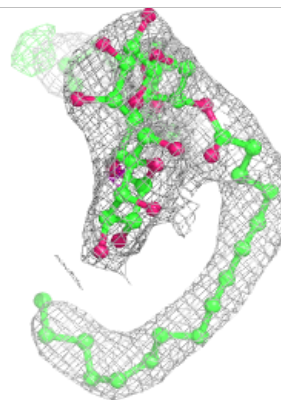
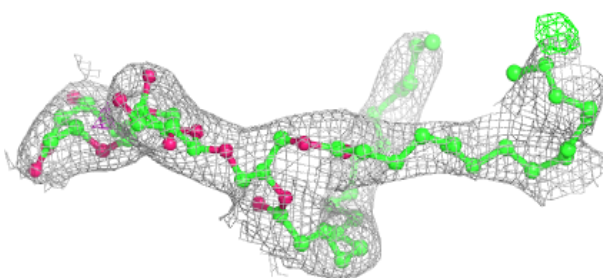
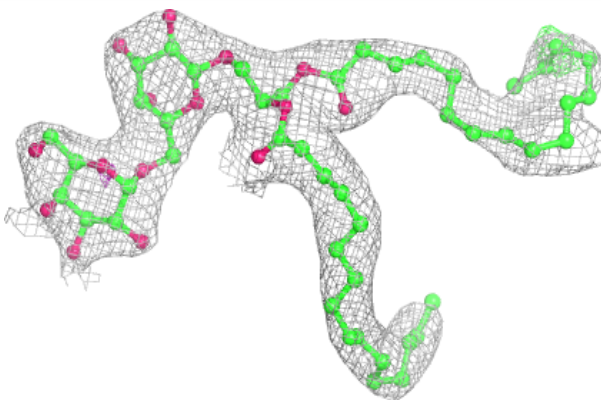


Electron density around LMG m 101:

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

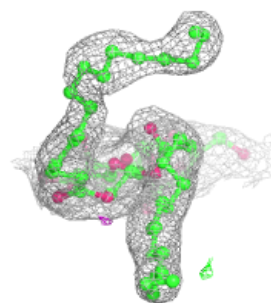
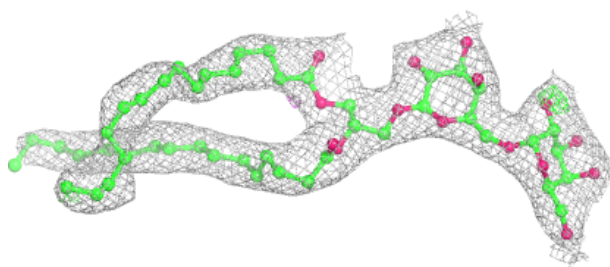
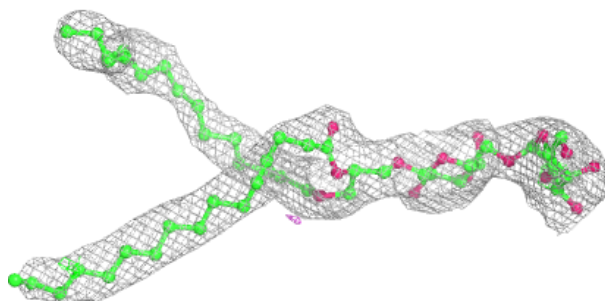
**Electron density around DGD C 518:**

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

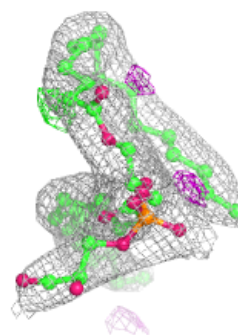
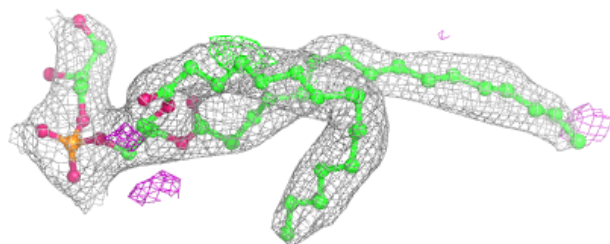
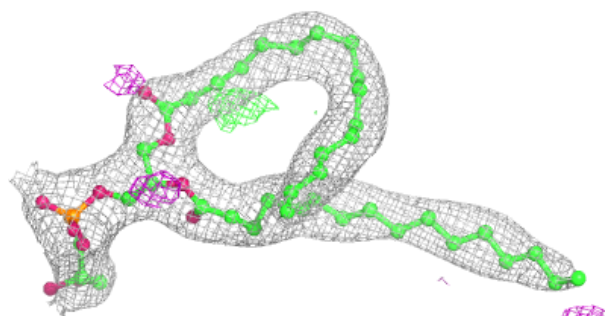


Electron density around DGD c 516:

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

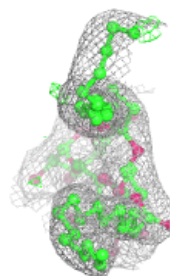
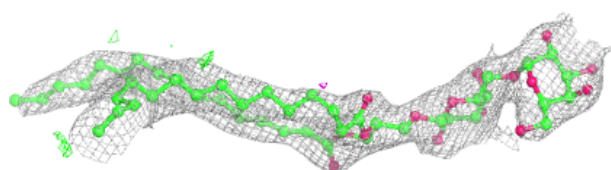
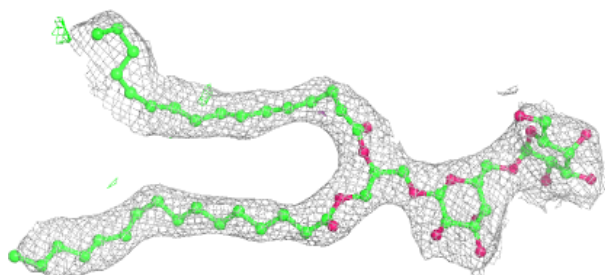
**Electron density around LHG A 415:**

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

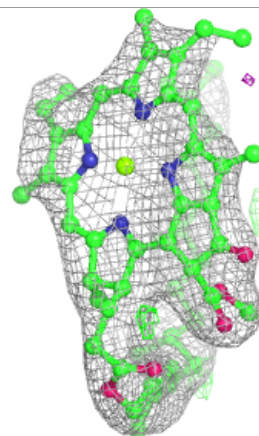
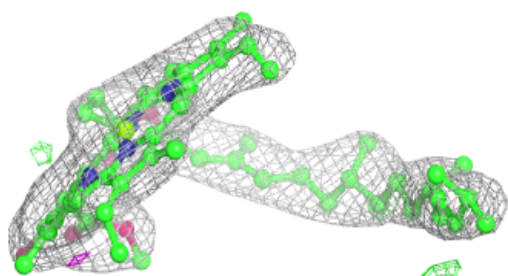
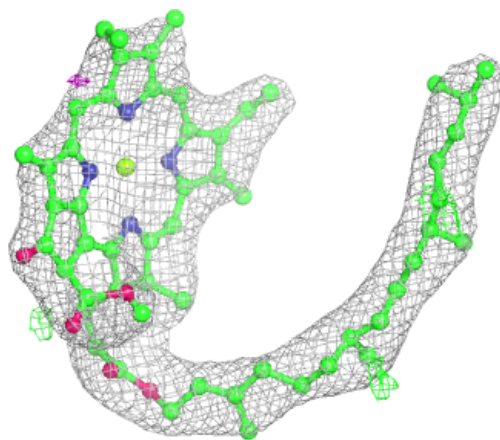


Electron density around DGD c 518:

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

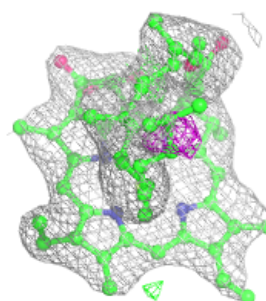
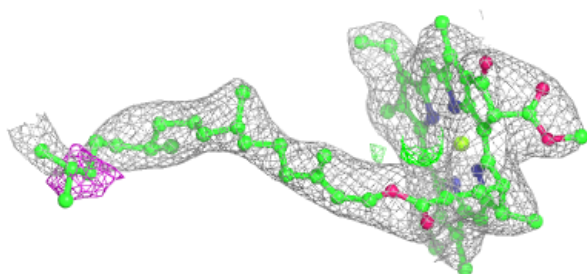
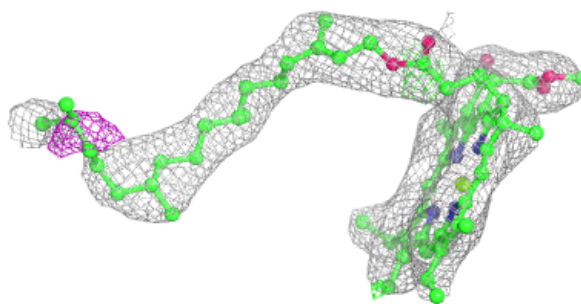
**Electron density around CLA C 508:**

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

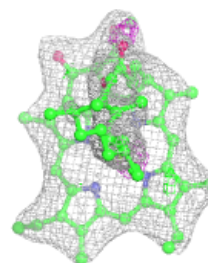
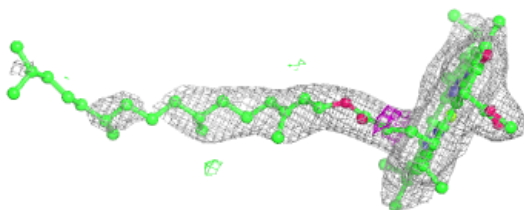
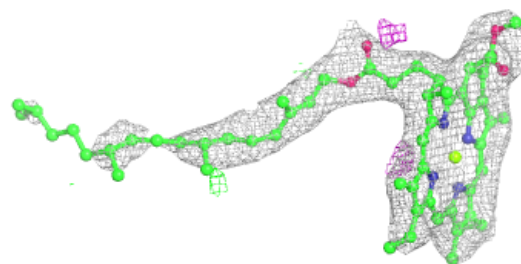


Electron density around CLA C 509:

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

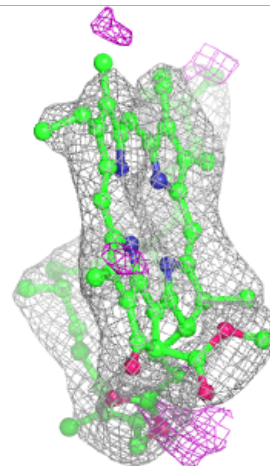
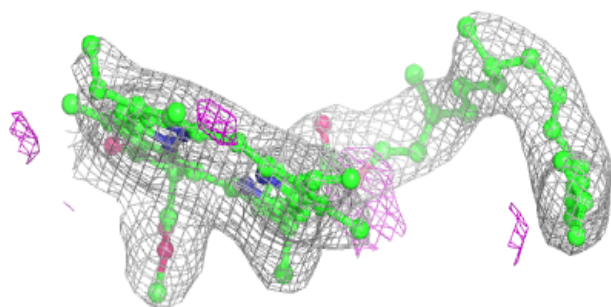
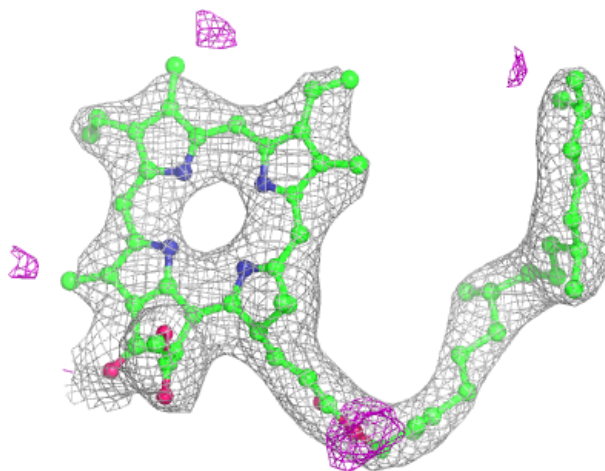
**Electron density around CLA d 403:**

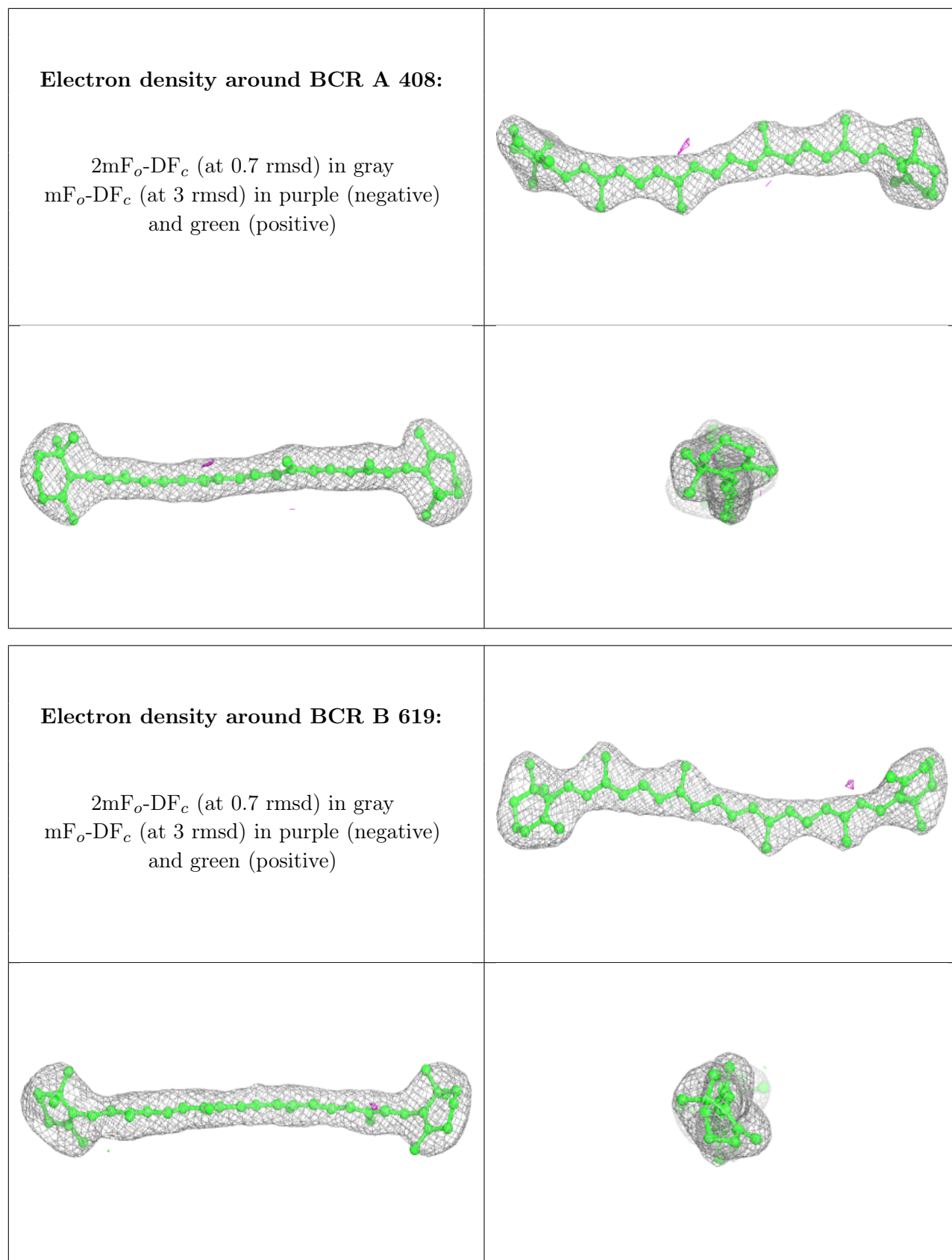
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around PHO a 408:

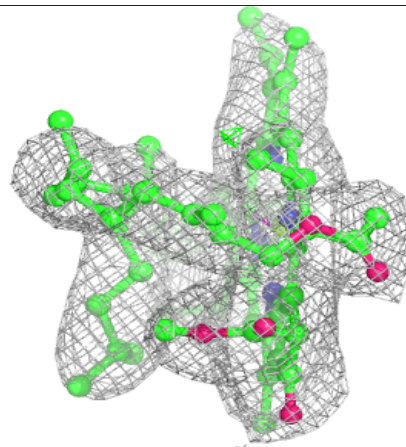
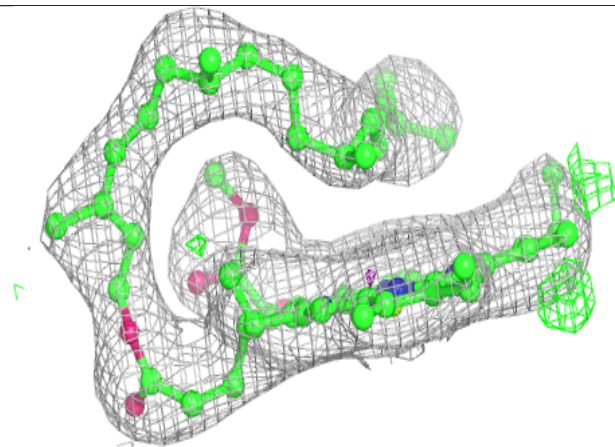
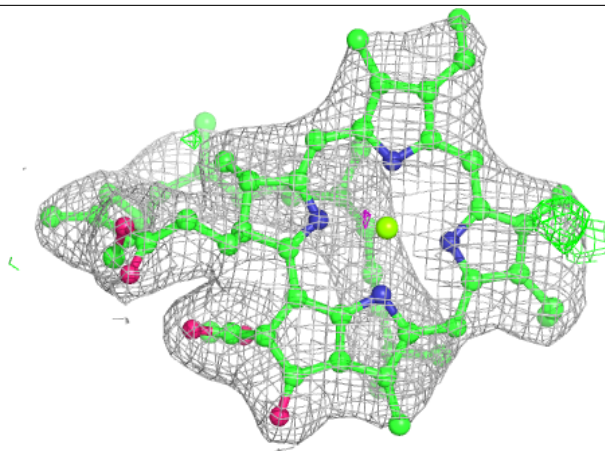
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





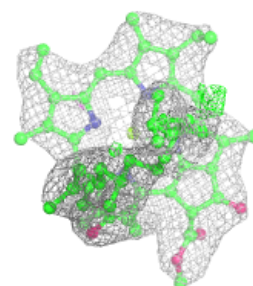
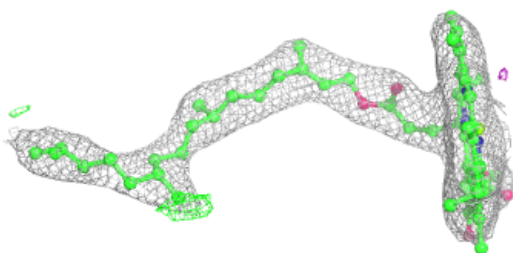
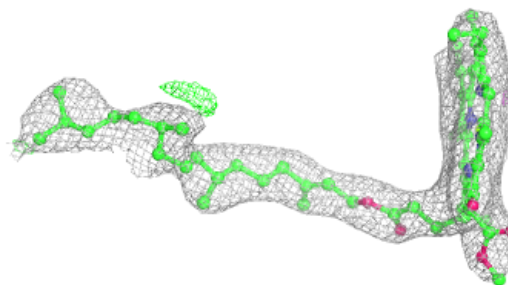
Electron density around CLA C 511:

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

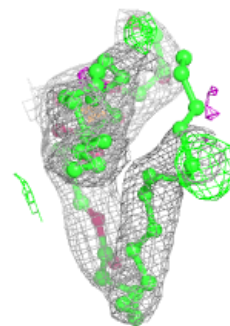
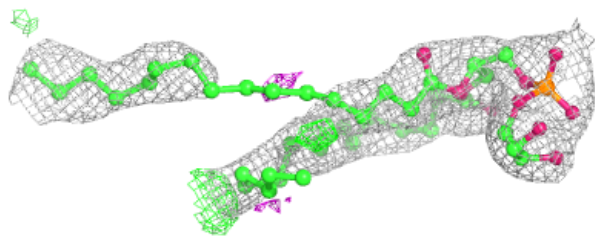
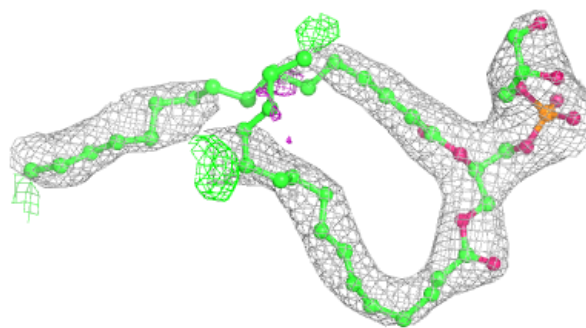


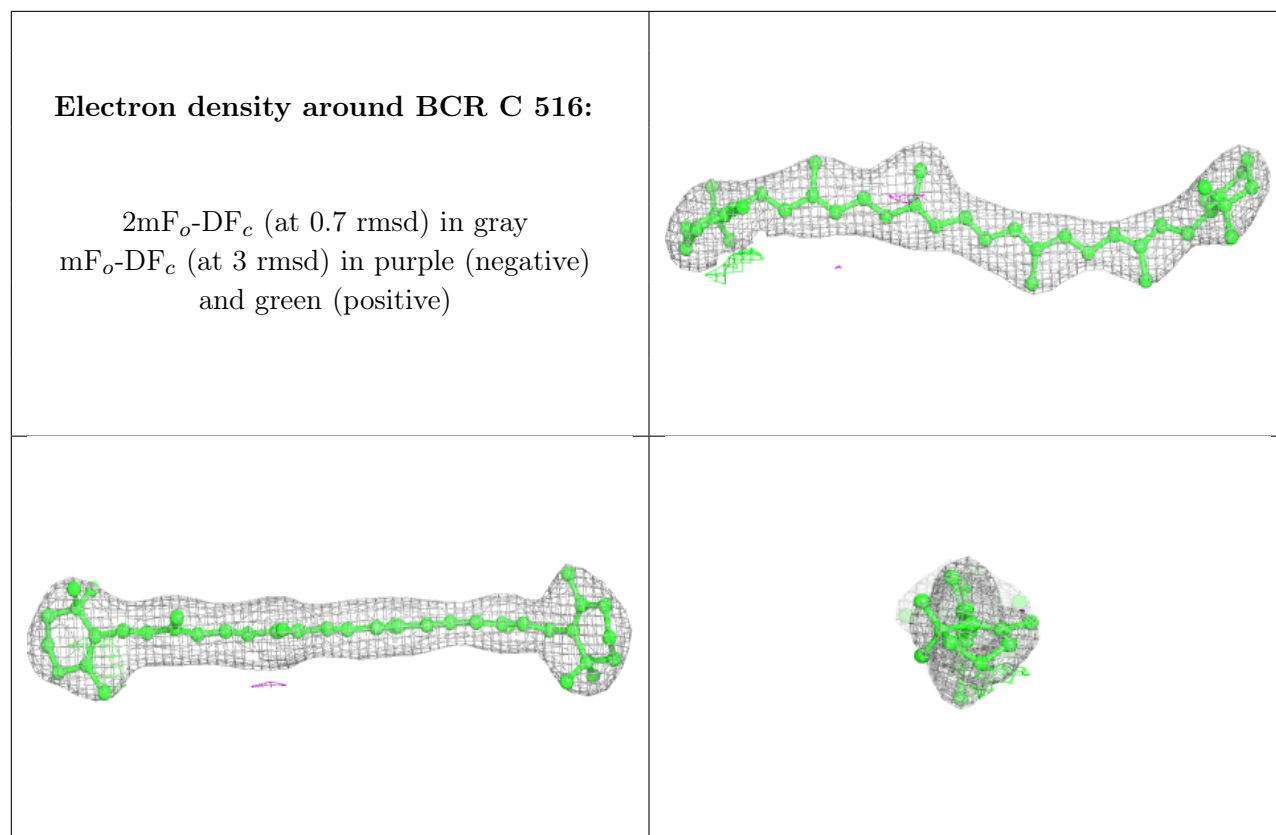
Electron density around CLA B 607:

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

**Electron density around LHG D 409:**

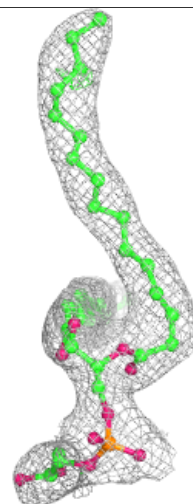
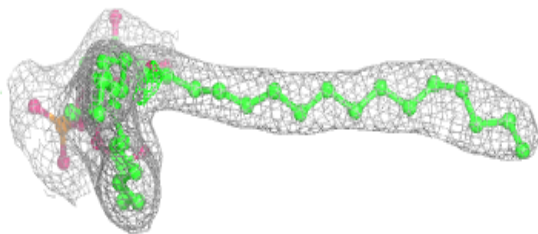
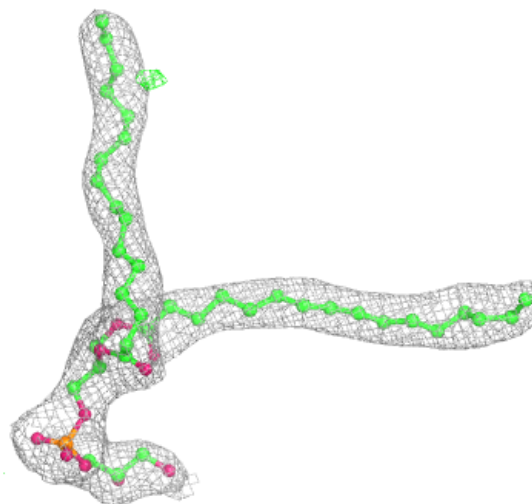
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





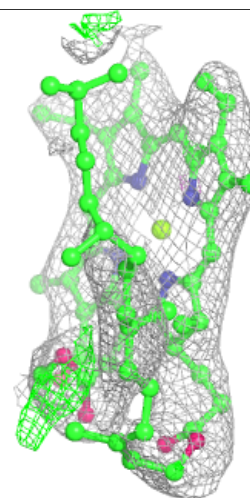
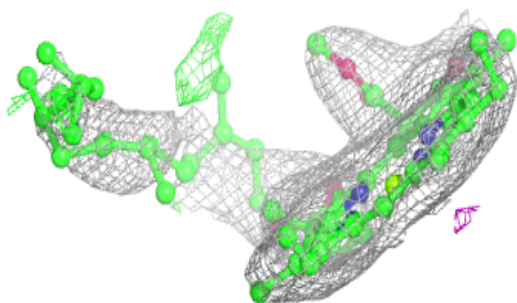
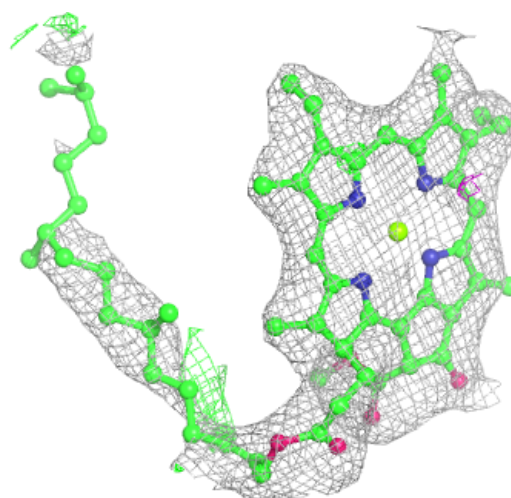
Electron density around LHG b 630:

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



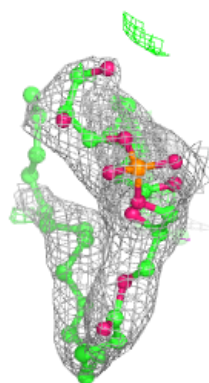
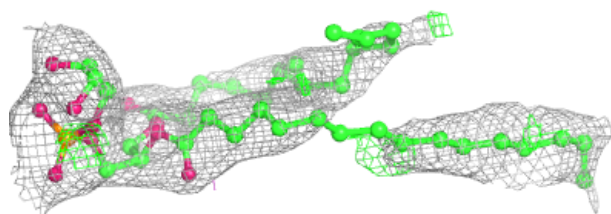
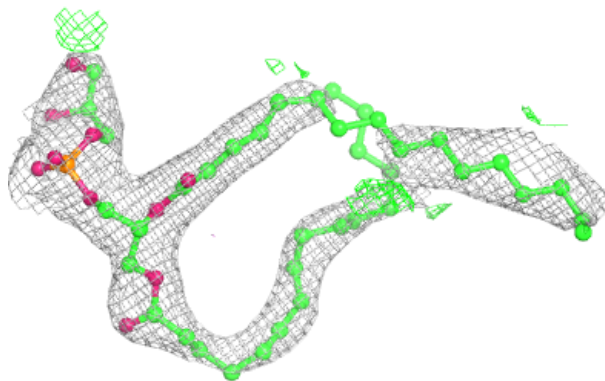
Electron density around CLA B 617:

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

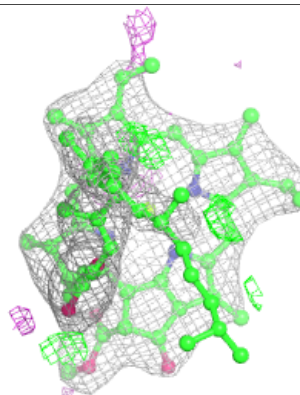
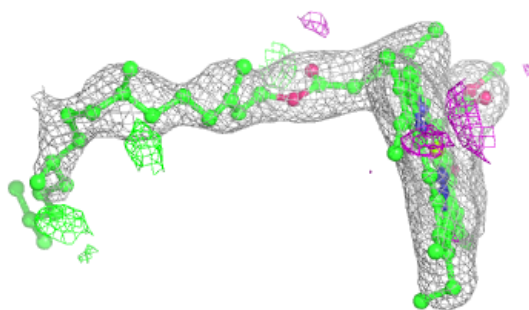
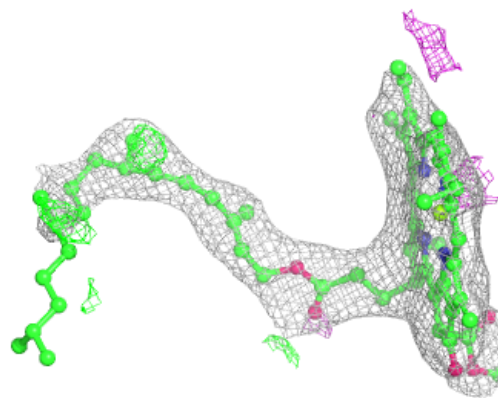


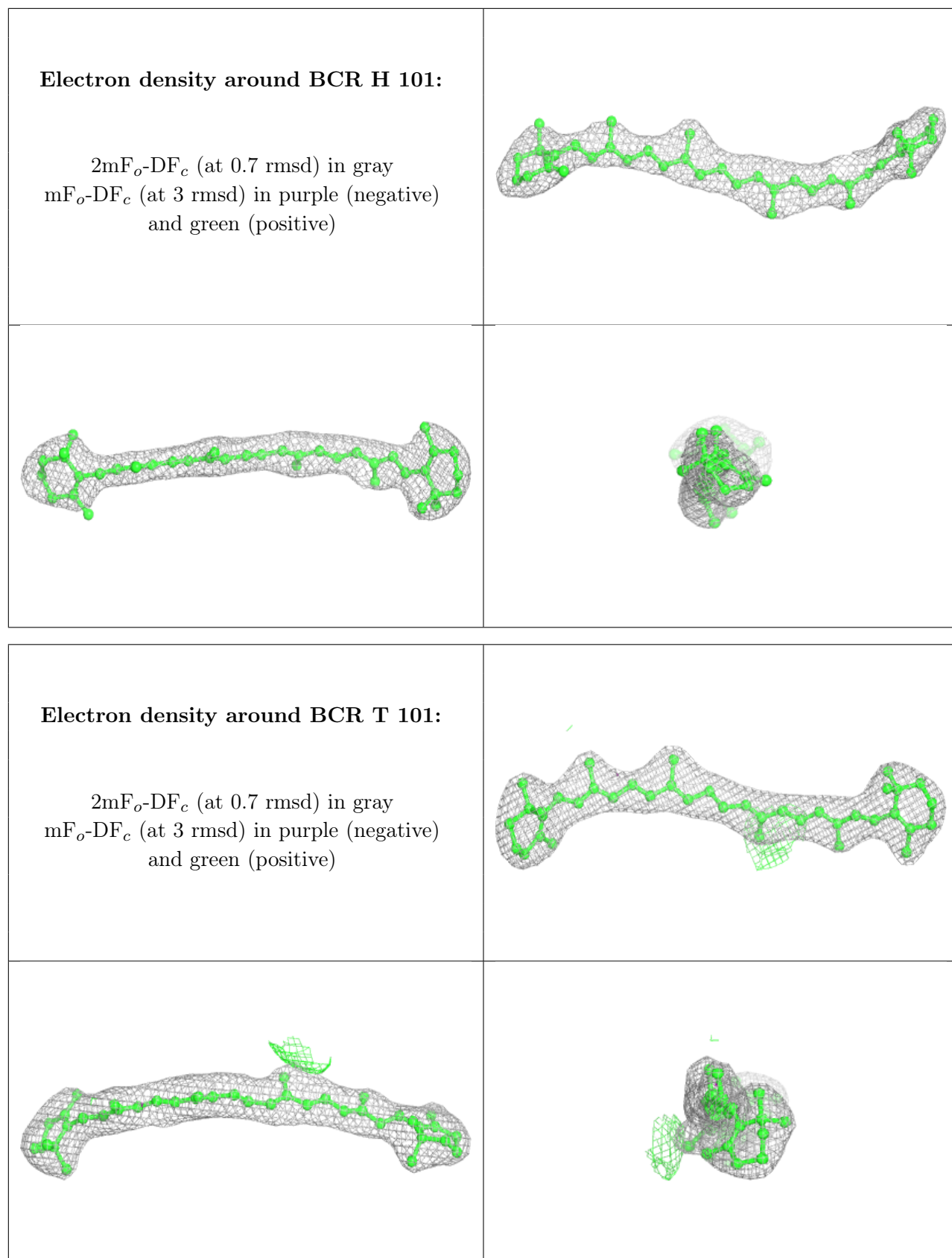
Electron density around LHG d 408:

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

**Electron density around CLA D 405:**

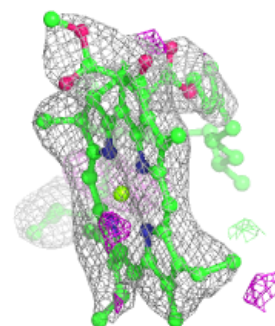
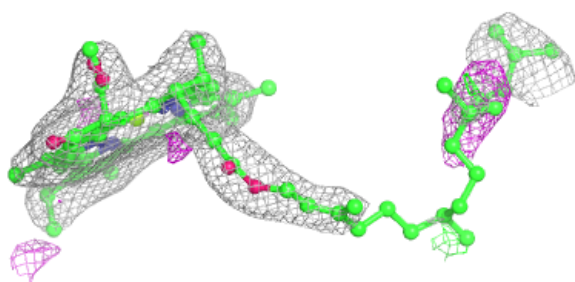
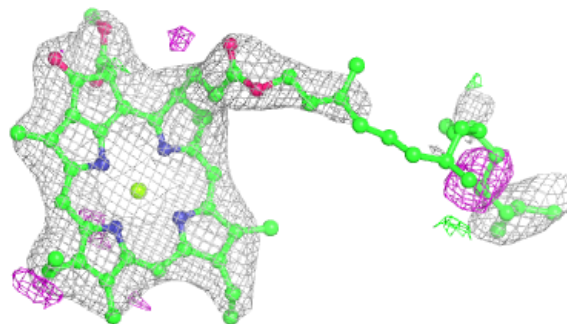
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



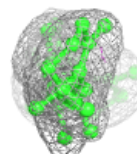
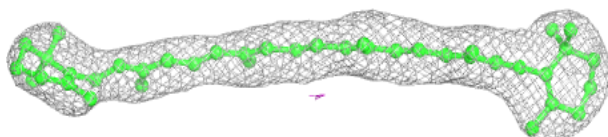
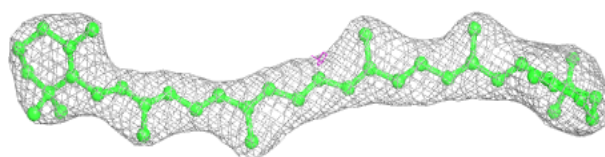


Electron density around CLA a 409:

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

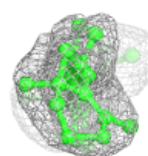
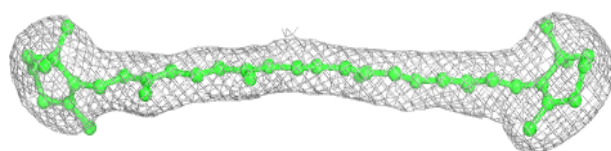
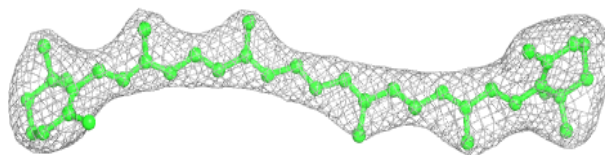
**Electron density around BCR b 617:**

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

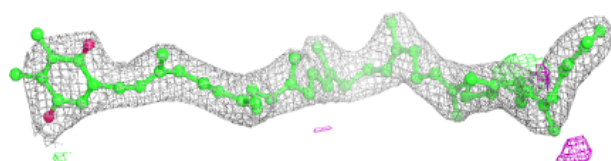
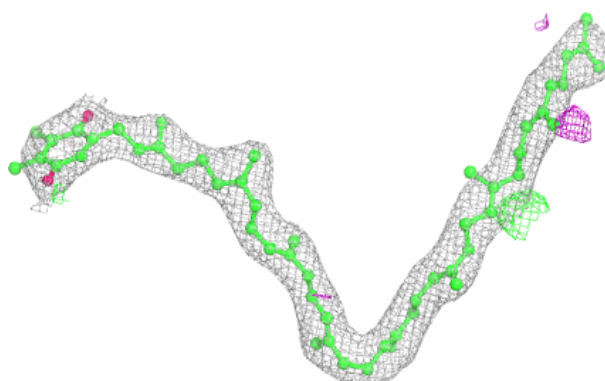


Electron density around BCR b 618:

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

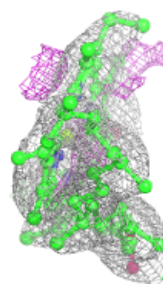
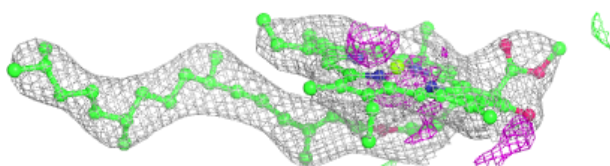
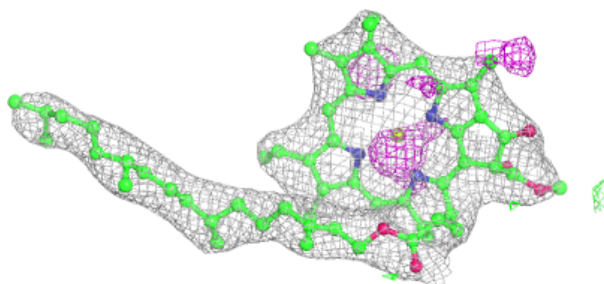
**Electron density around PL9 d 405:**

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

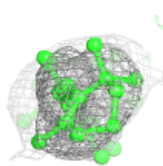
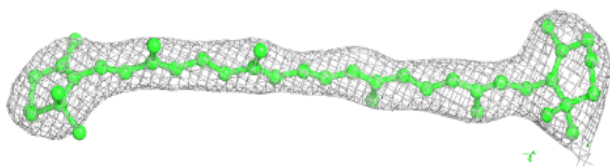
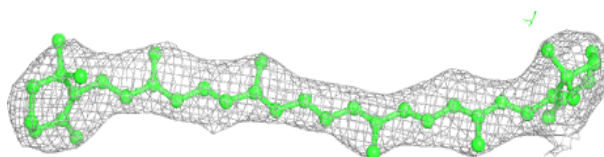


Electron density around CLA C 502:

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

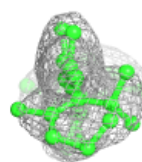
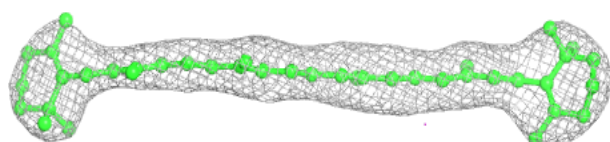
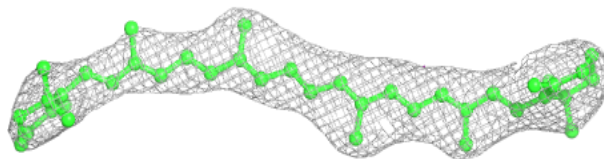
**Electron density around BCR c 514:**

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

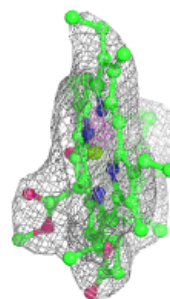
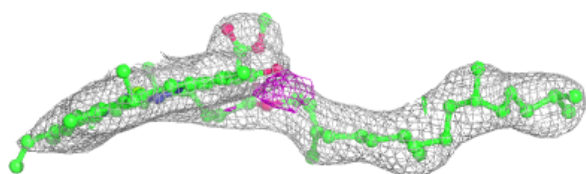
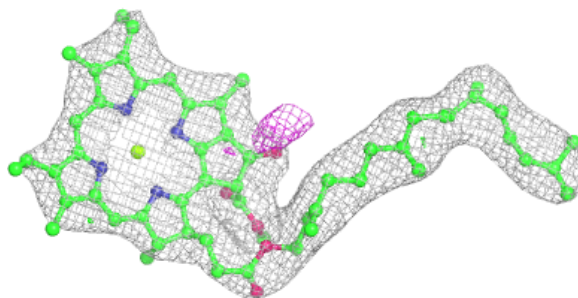


Electron density around BCR c 515:

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

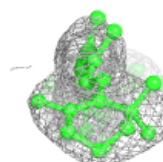
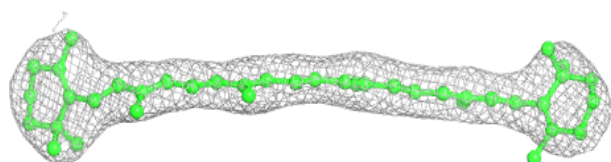
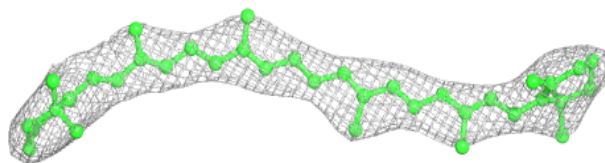
**Electron density around CLA b 602:**

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

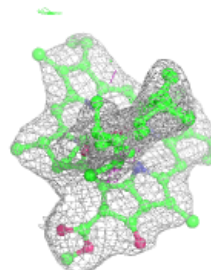
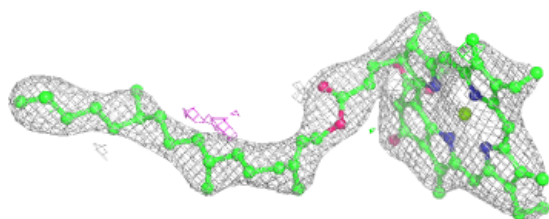
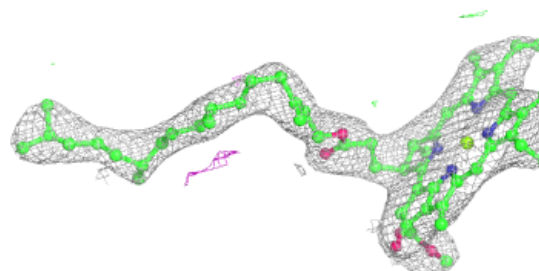


Electron density around BCR h 102:

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

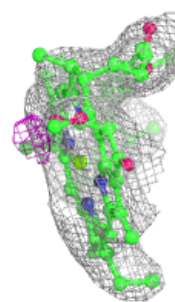
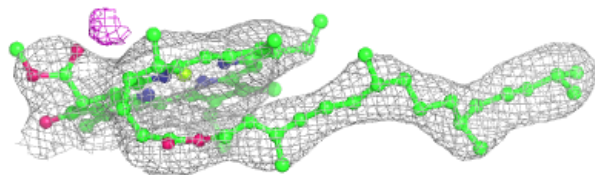
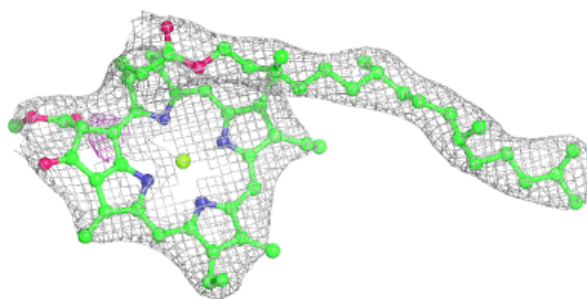
**Electron density around CLA C 503:**

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

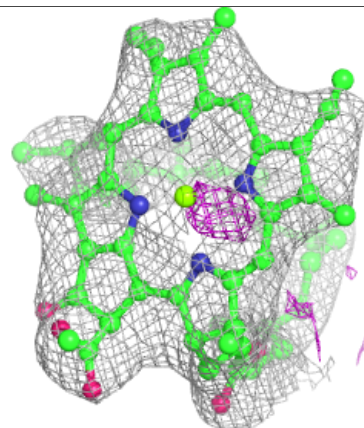
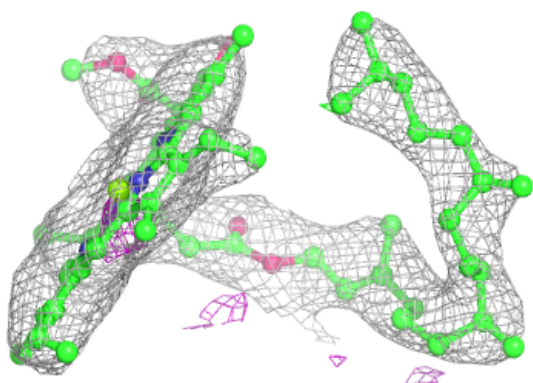
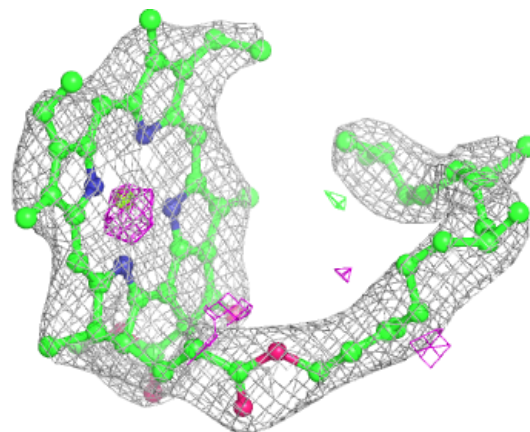


Electron density around CLA c 501:

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

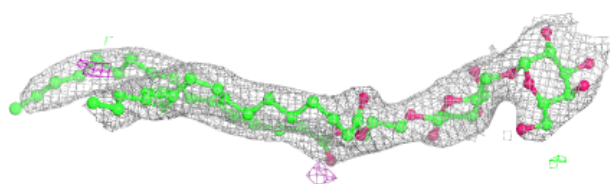
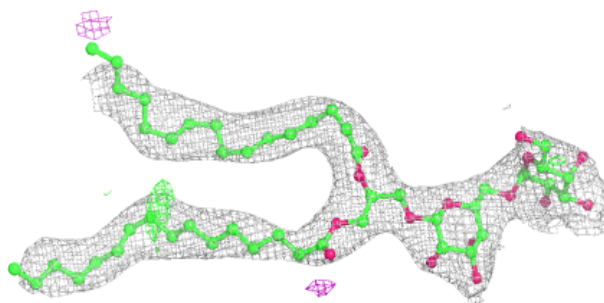
**Electron density around CLA C 504:**

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

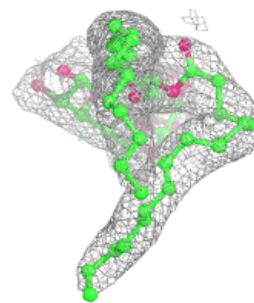
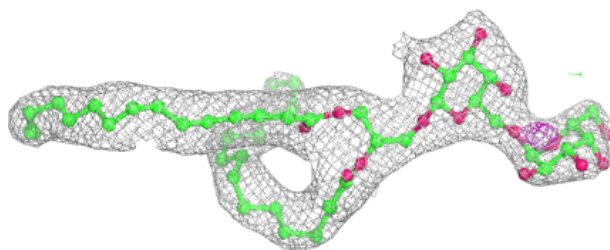
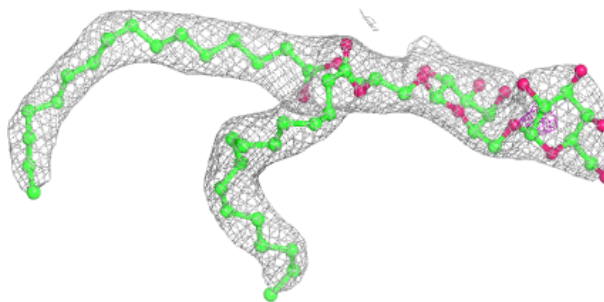


Electron density around DGD C 519:

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

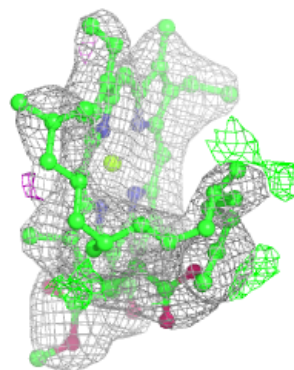
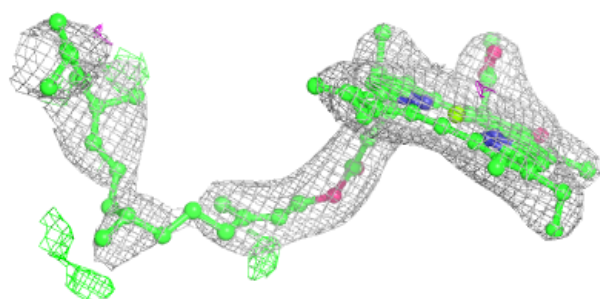
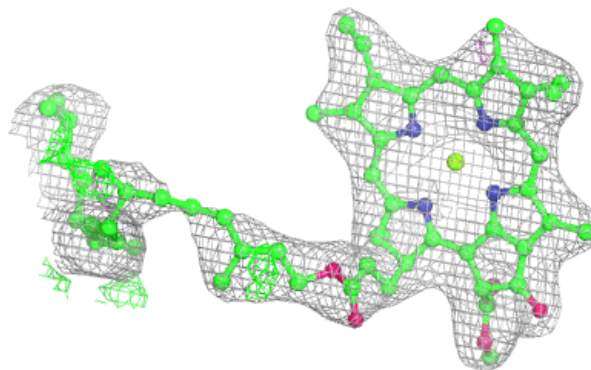
**Electron density around DGD H 102:**

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

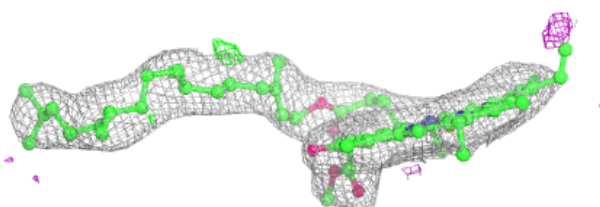
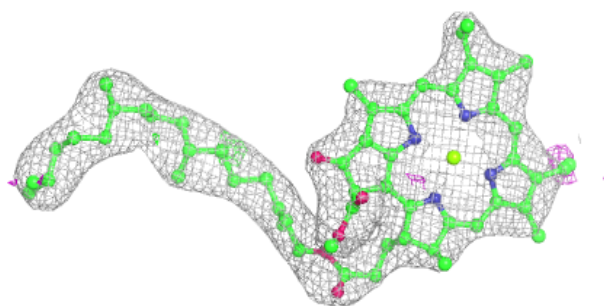


Electron density around CLA A 407:

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

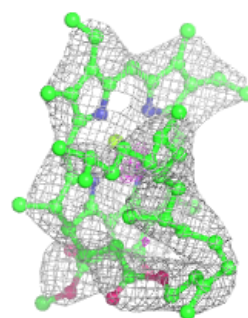
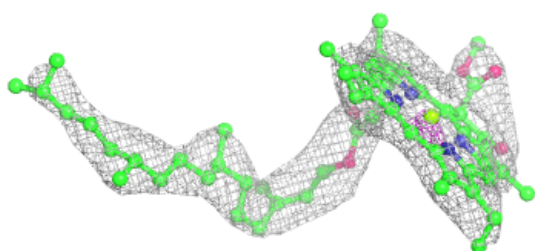
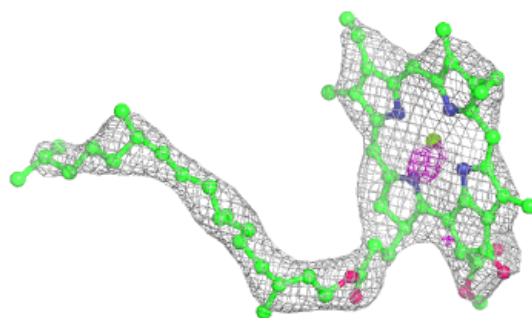
**Electron density around CLA B 603:**

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

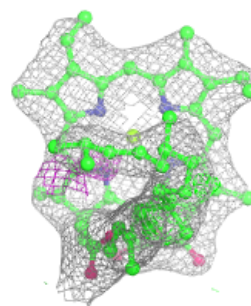
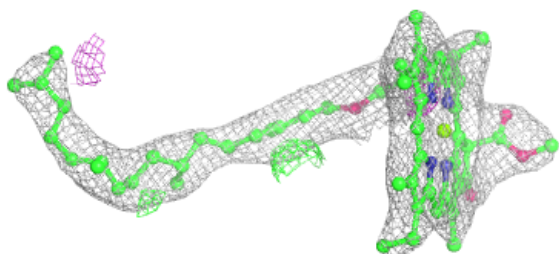
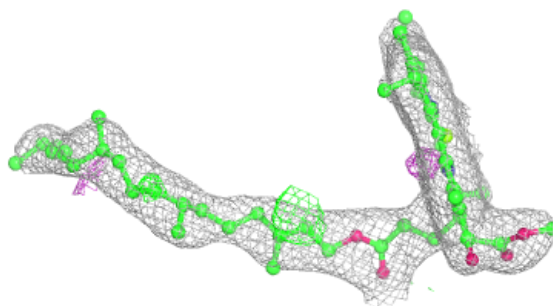


Electron density around CLA c 511:

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

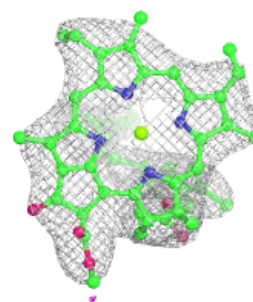
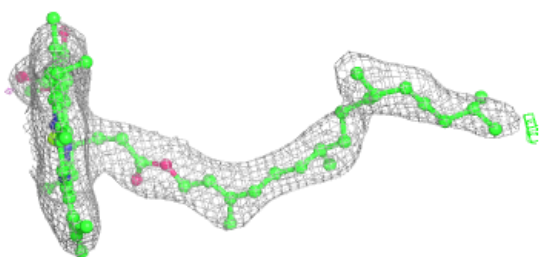
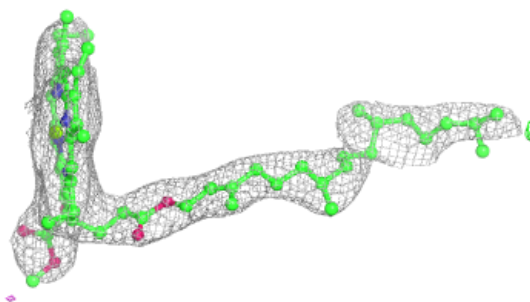
**Electron density around CLA b 605:**

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

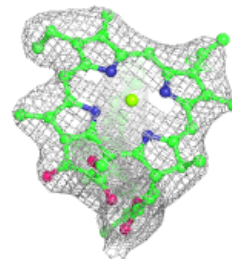
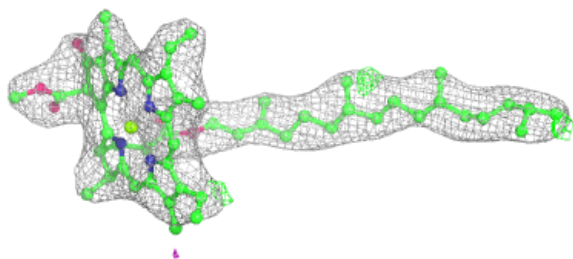
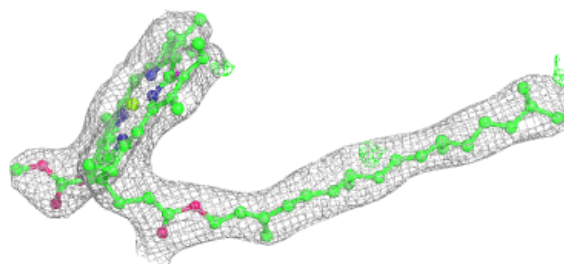


Electron density around CLA b 606:

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

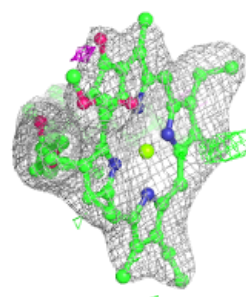
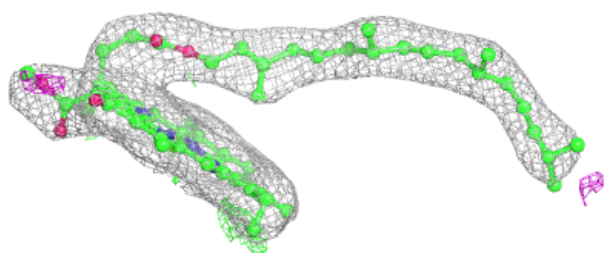
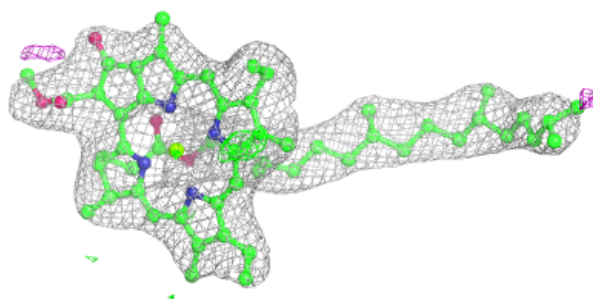
**Electron density around CLA b 607:**

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

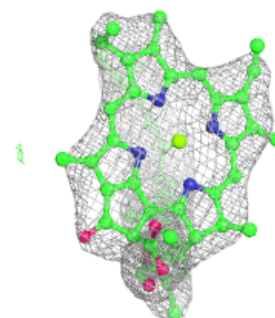
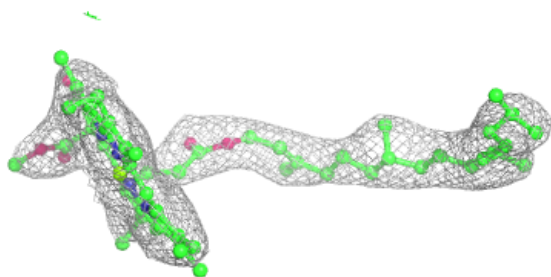
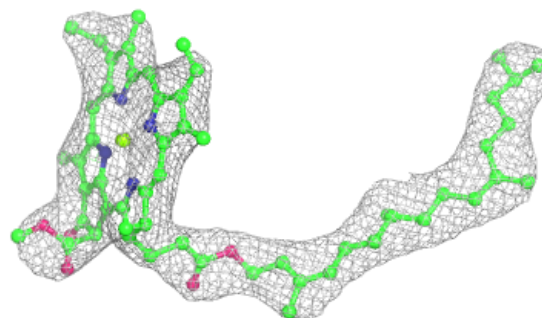


Electron density around CLA b 608:

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

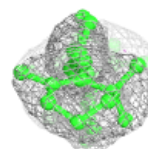
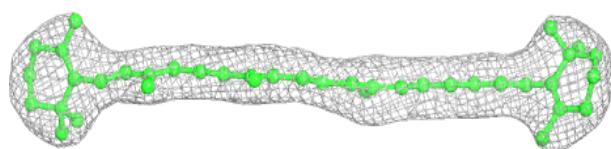
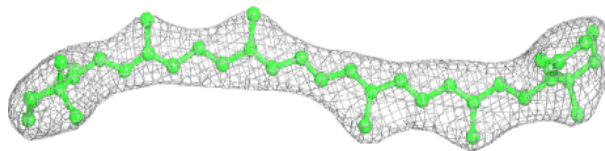
**Electron density around CLA b 609:**

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

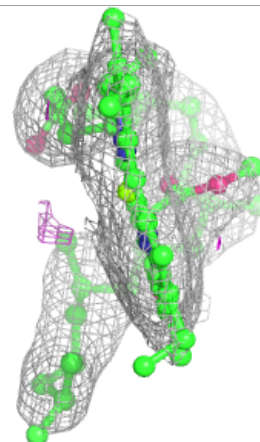
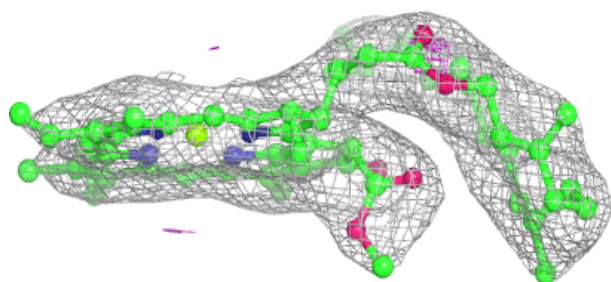
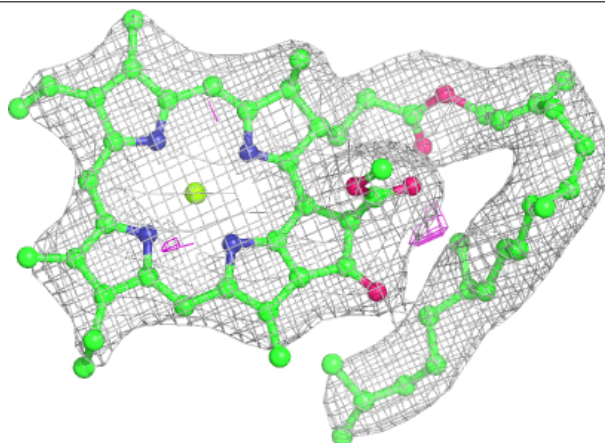


Electron density around BCR a 410:

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

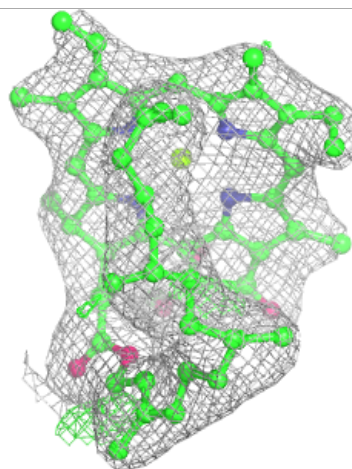
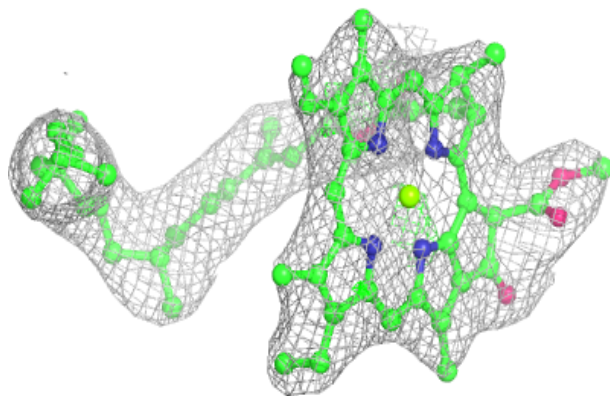
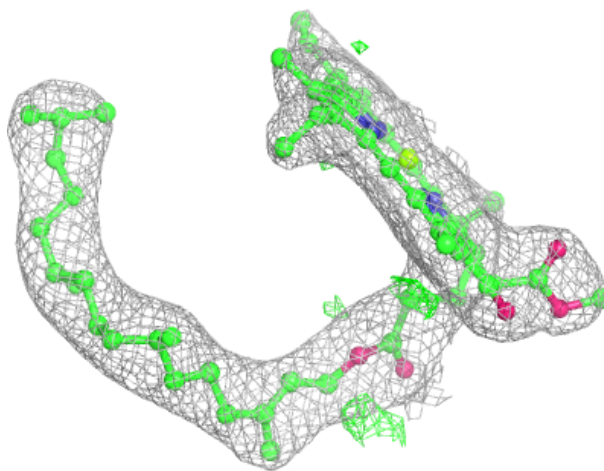
**Electron density around CLA b 610:**

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



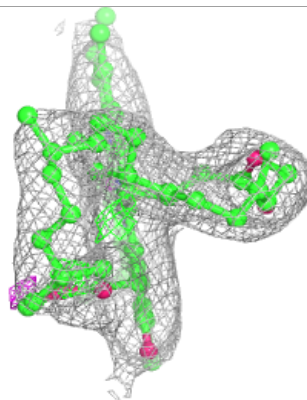
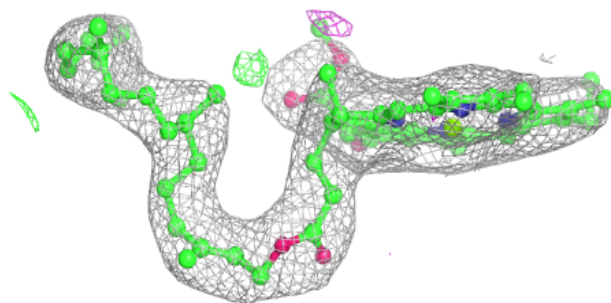
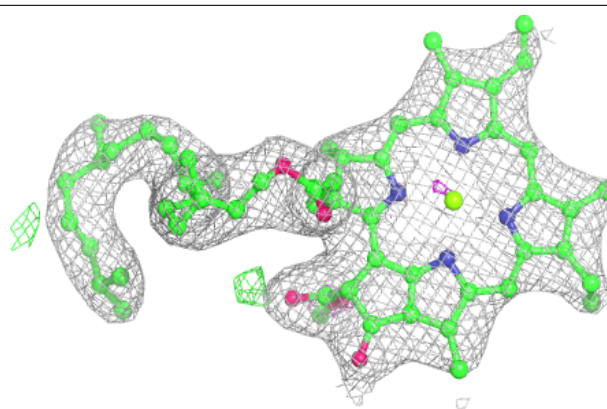
Electron density around CLA b 611:

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



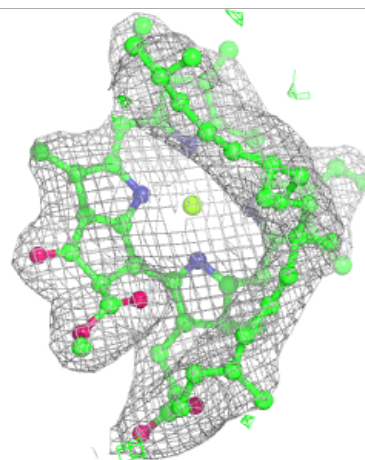
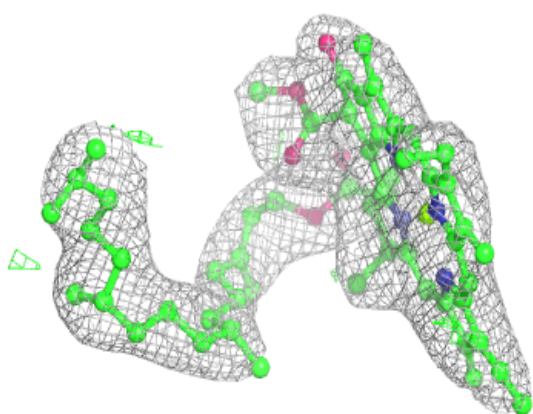
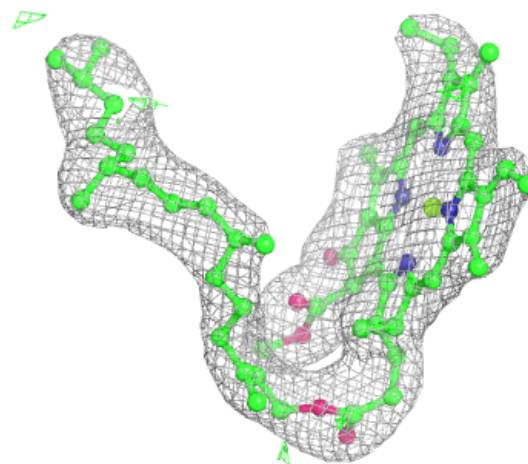
Electron density around CLA b 612:

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



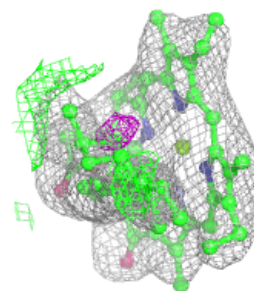
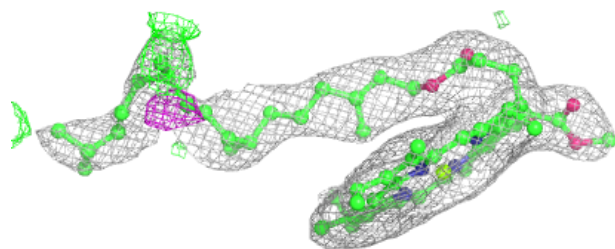
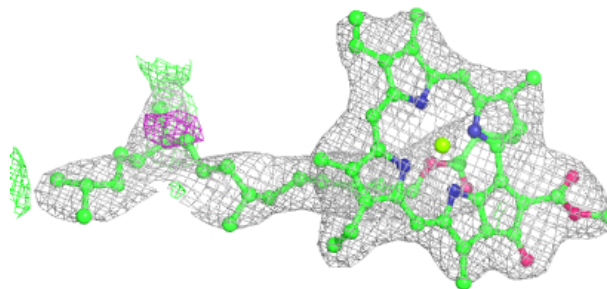
Electron density around CLA b 613:

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



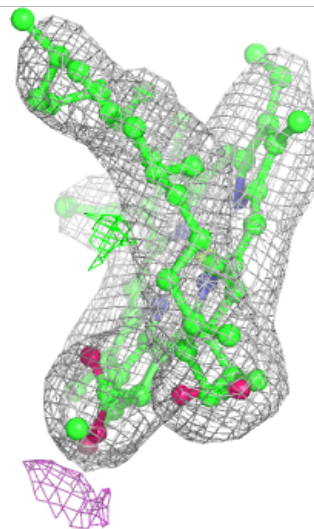
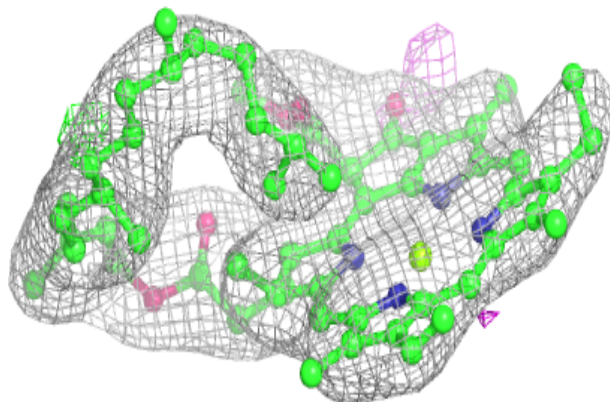
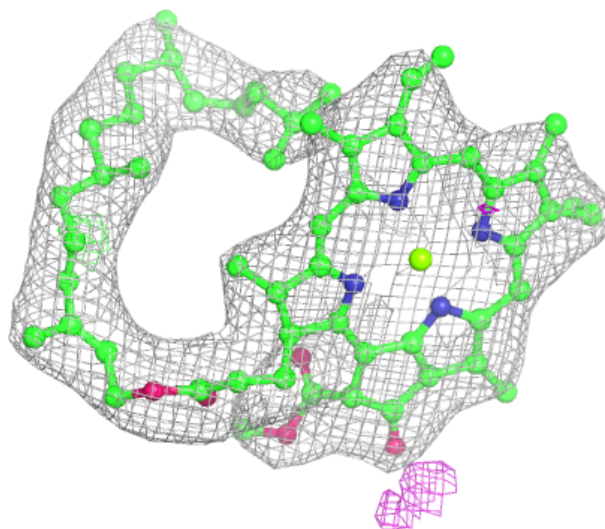
Electron density around CLA b 614:

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



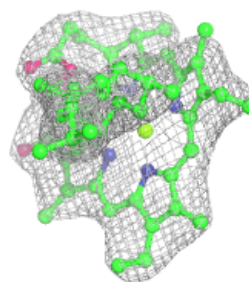
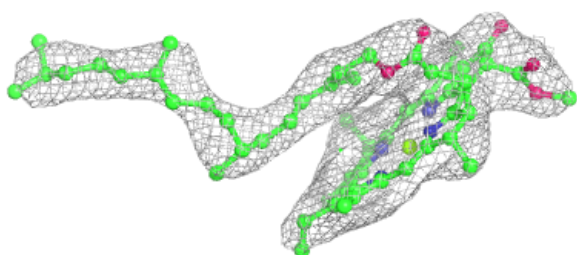
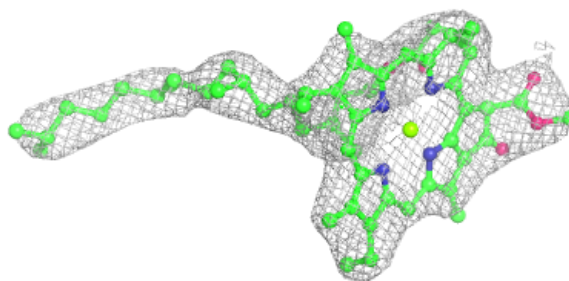
Electron density around CLA b 615:

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

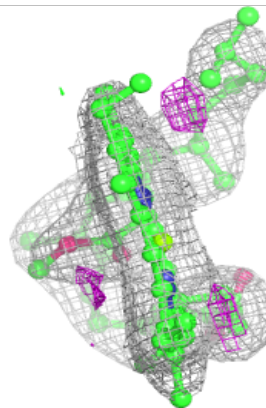
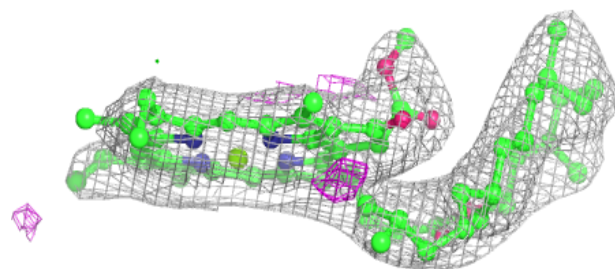
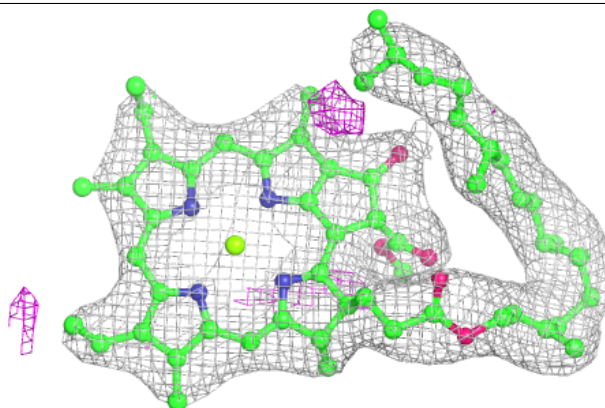


Electron density around CLA C 506:

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

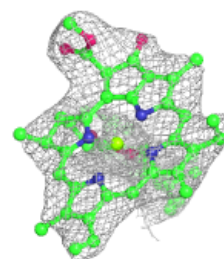
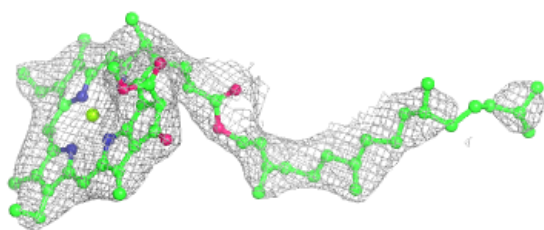
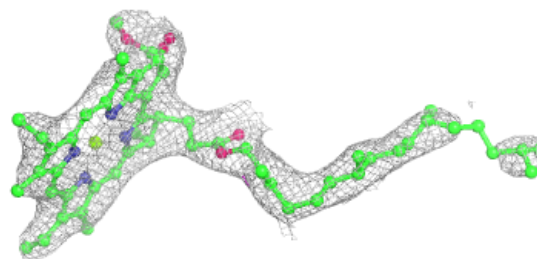
**Electron density around CLA B 611:**

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



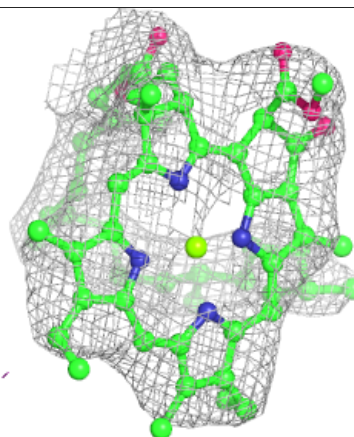
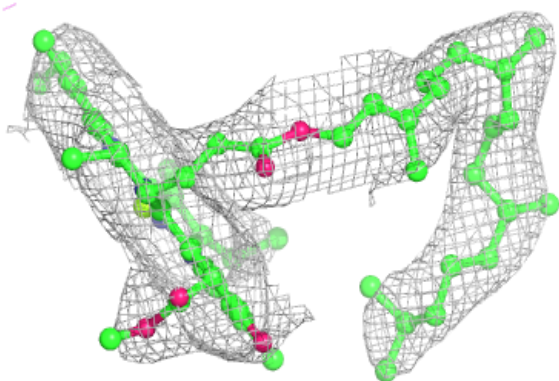
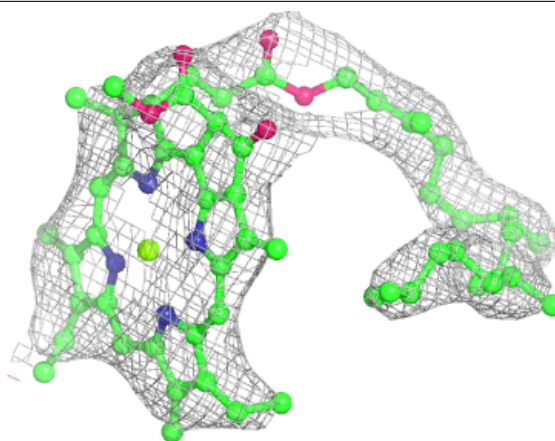
Electron density around CLA c 502:

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



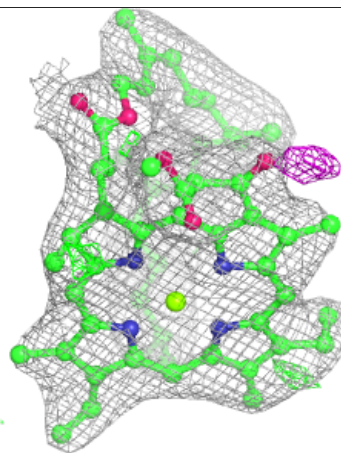
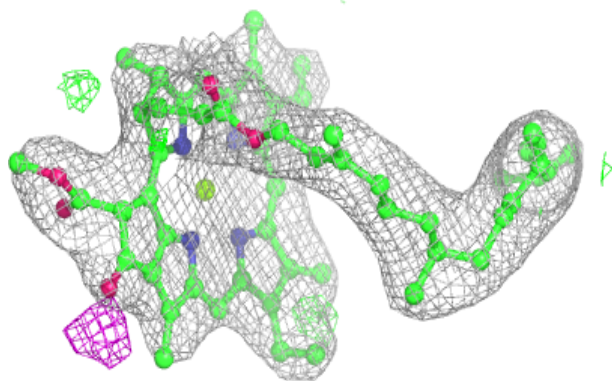
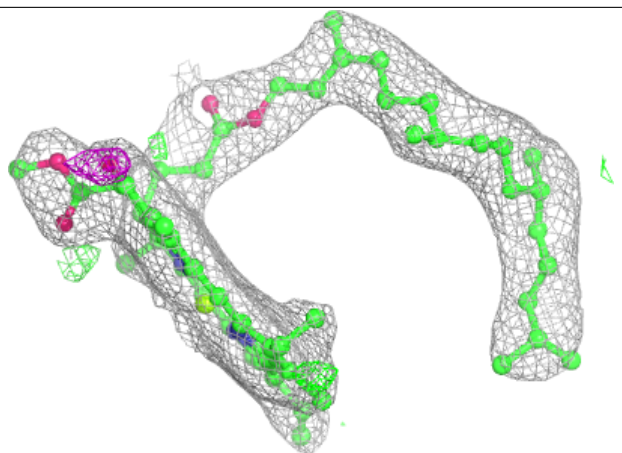
Electron density around CLA c 503:

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



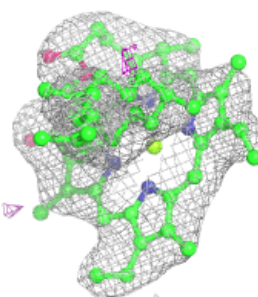
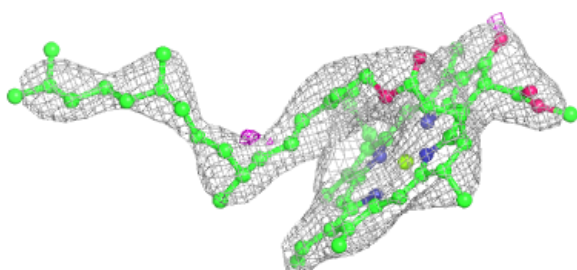
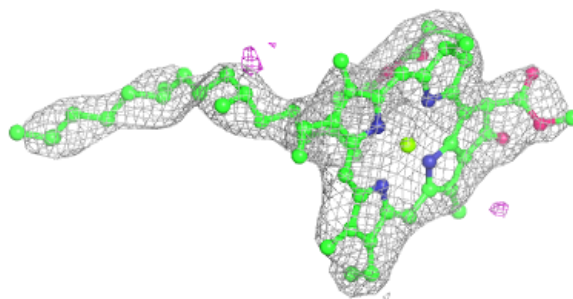
Electron density around CLA B 612:

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

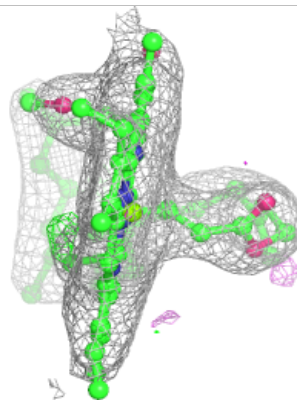
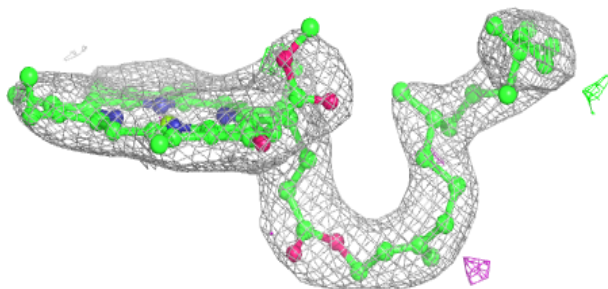
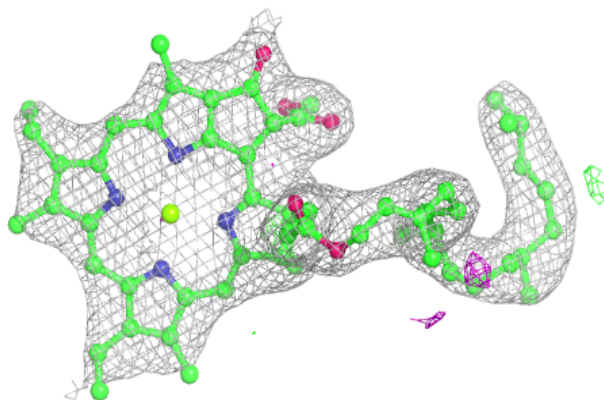


Electron density around CLA c 505:

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

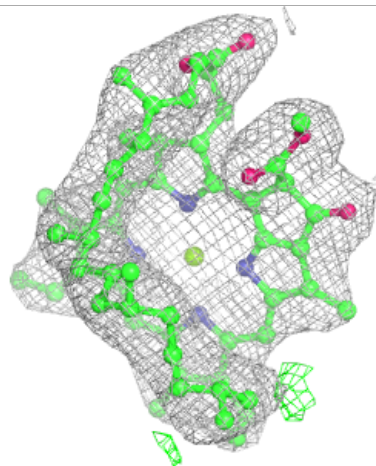
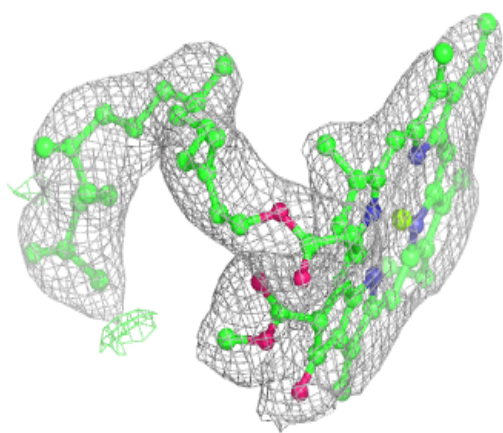
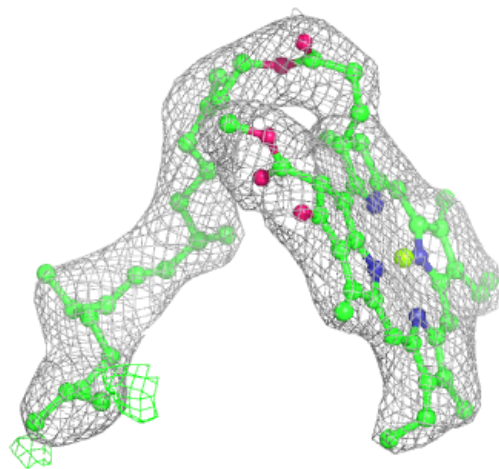
**Electron density around CLA B 613:**

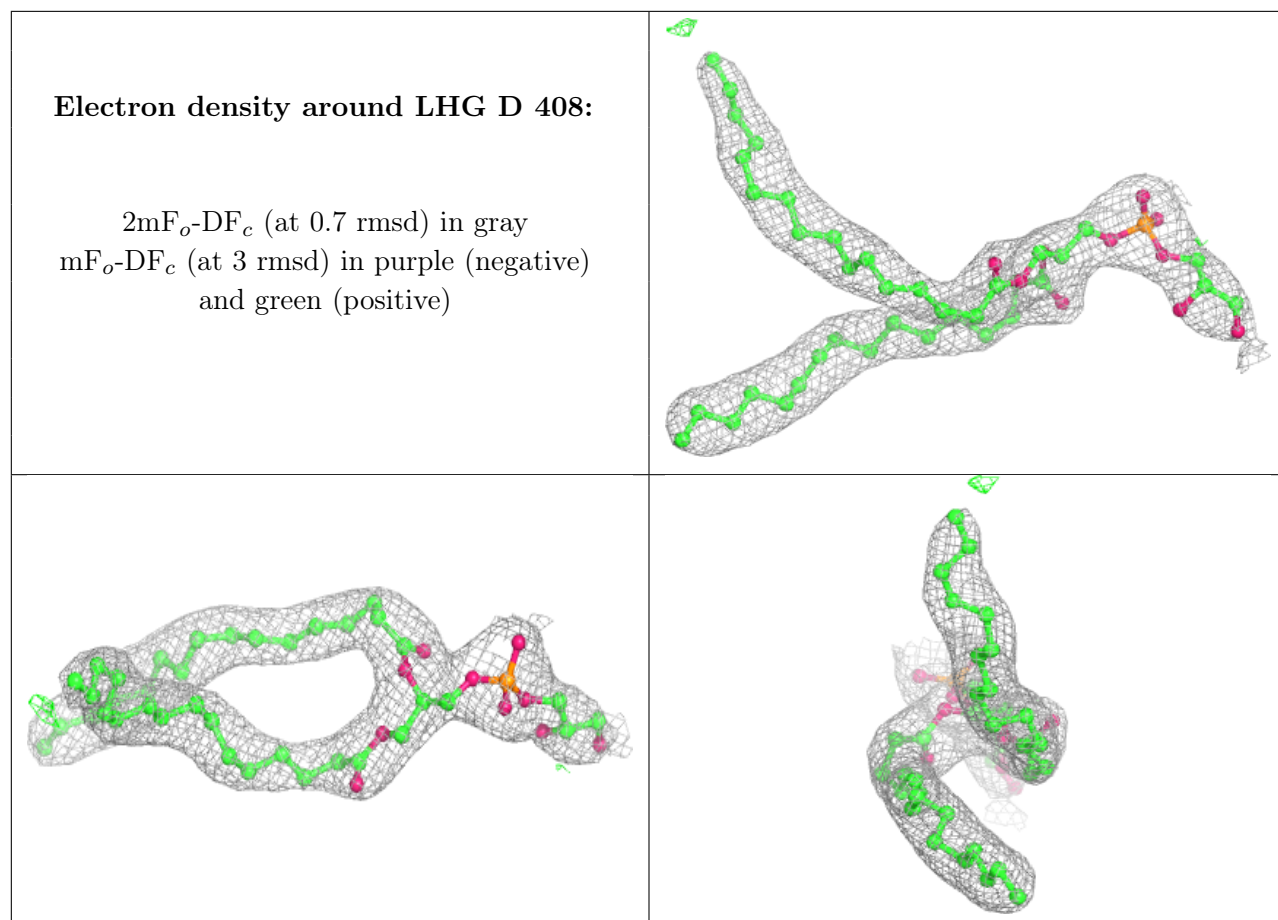
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CLA B 614:

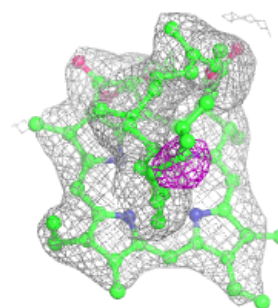
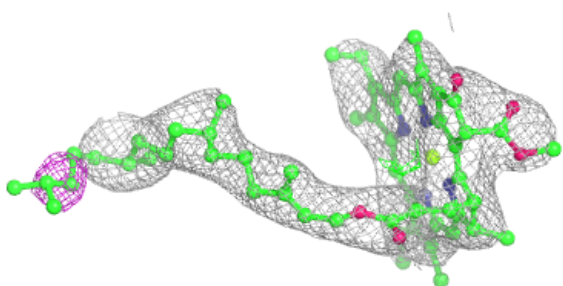
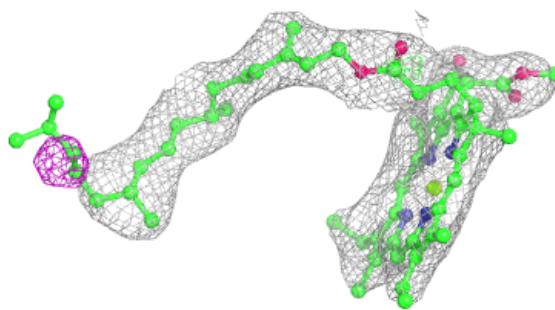
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



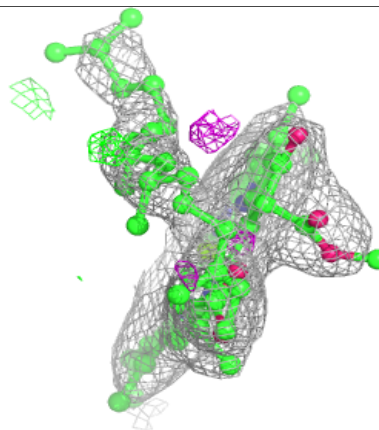
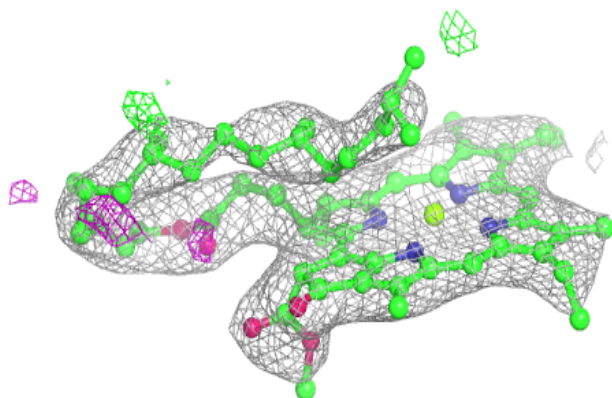
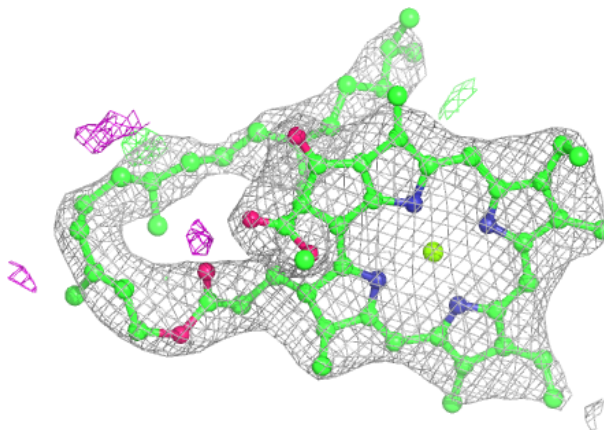


Electron density around CLA c 508:

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

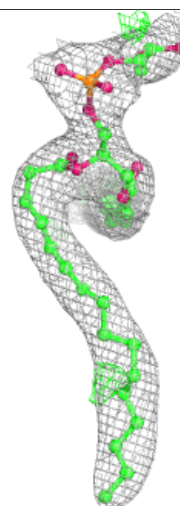
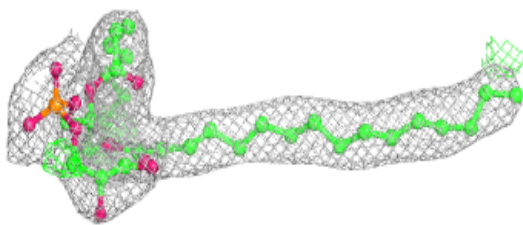
**Electron density around CLA c 509:**

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



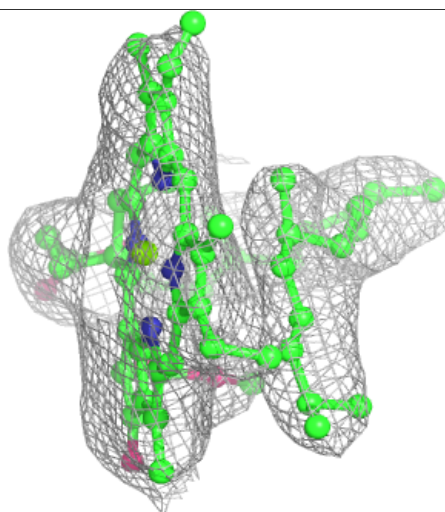
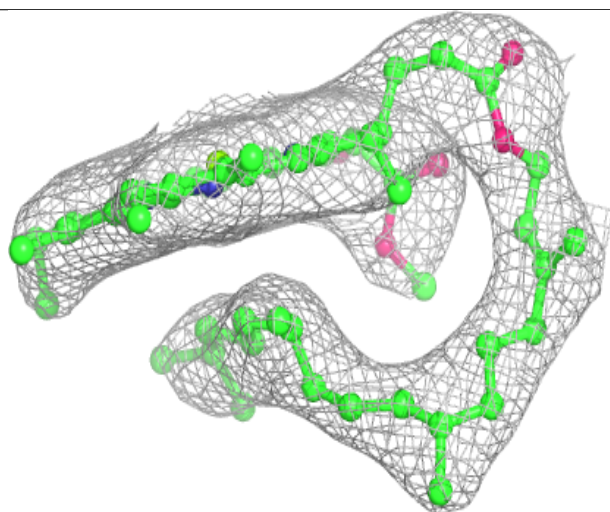
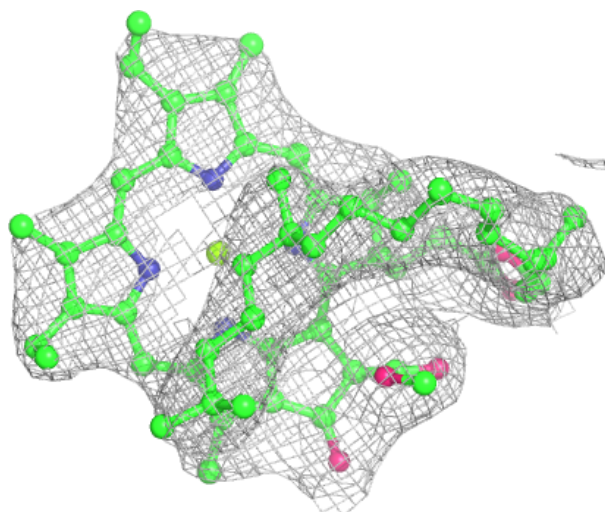
Electron density around LHG L 101:

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



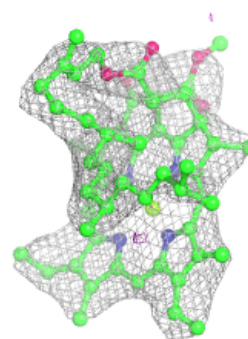
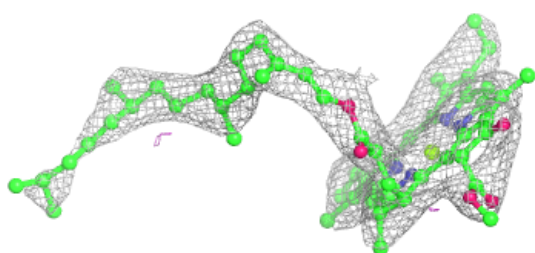
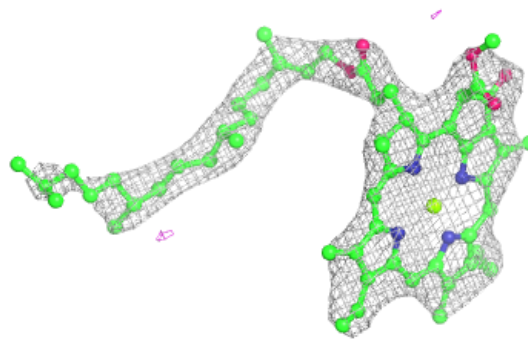
Electron density around CLA c 510:

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

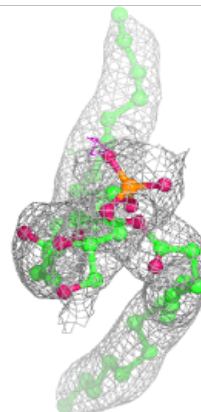
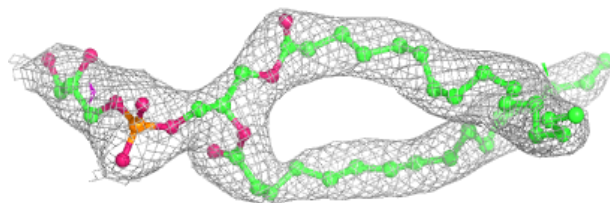
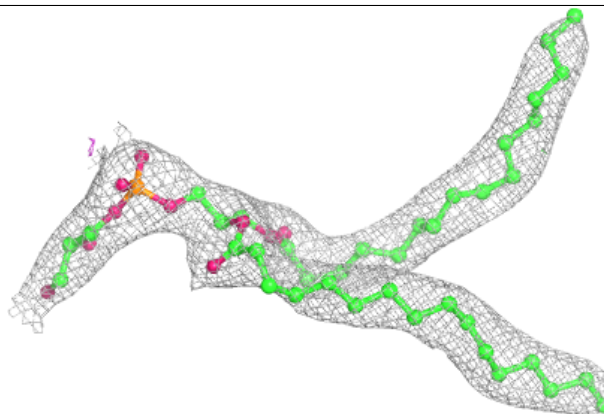


Electron density around CLA C 512:

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

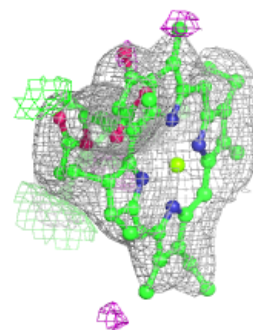
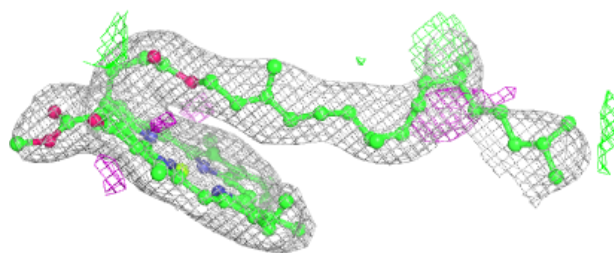
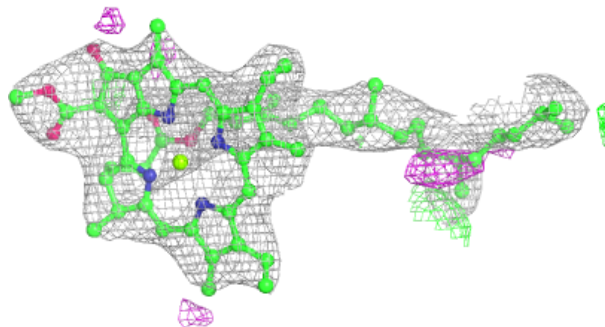
**Electron density around LHG d 407:**

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

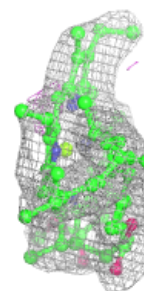
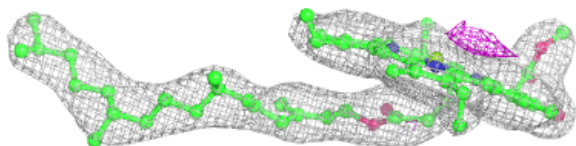
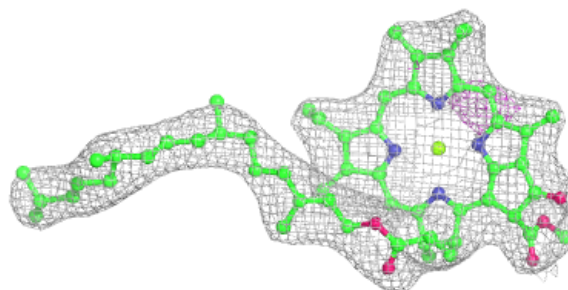


Electron density around CLA B 615:

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

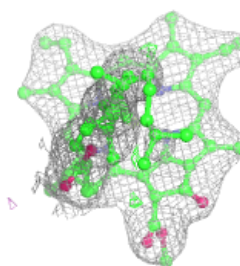
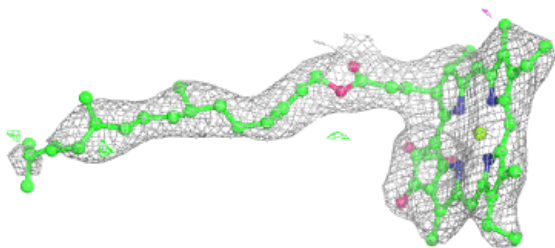
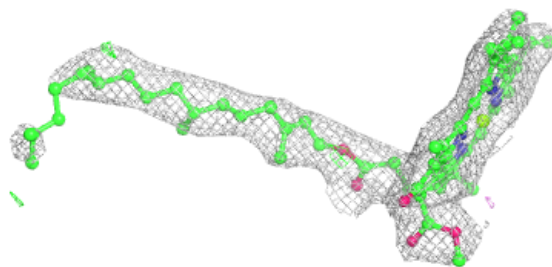
**Electron density around CLA B 604:**

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



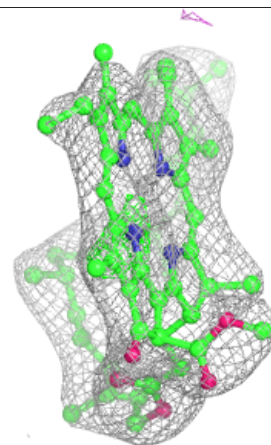
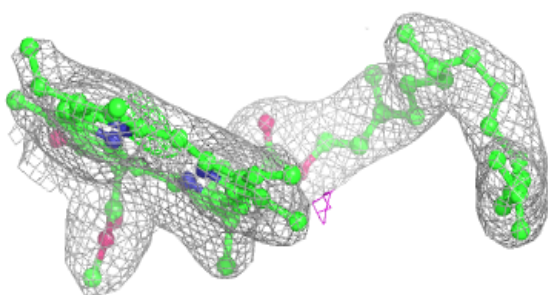
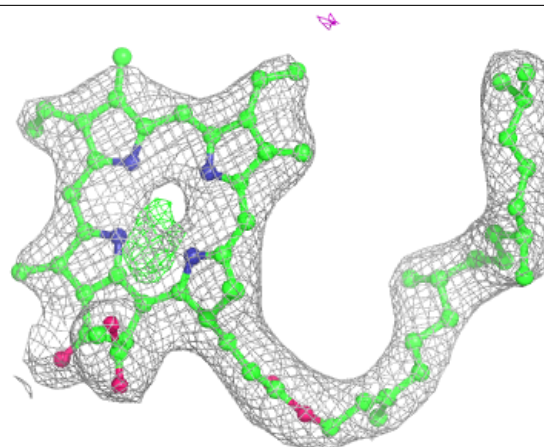
Electron density around CLA B 605:

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



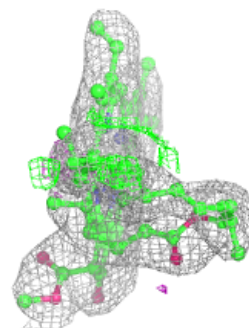
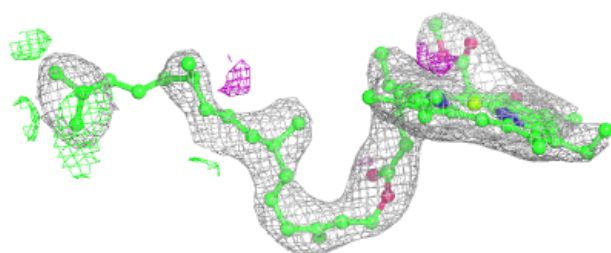
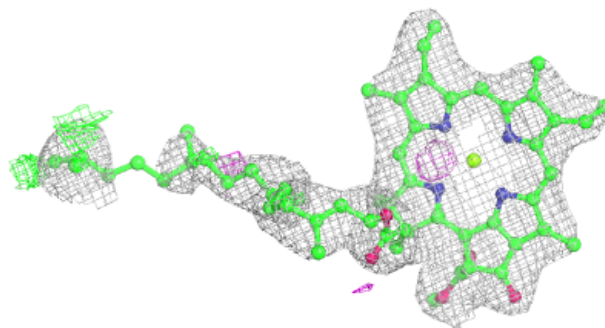
Electron density around PHO D 402:

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

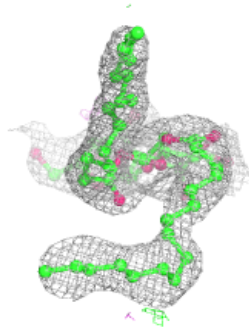
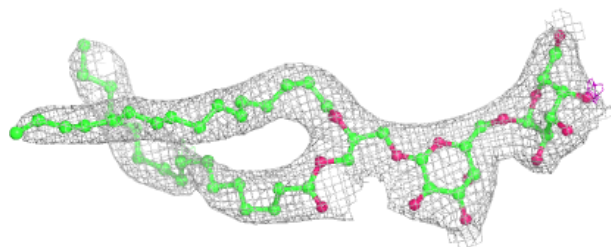
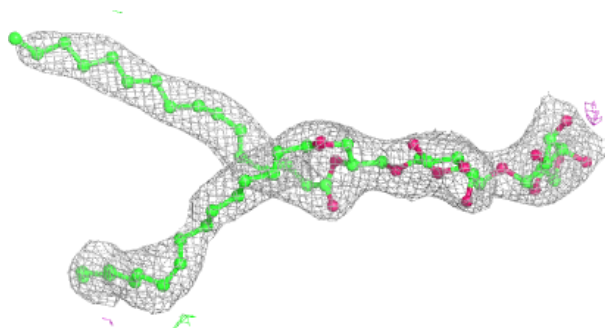


Electron density around CLA a 406:

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

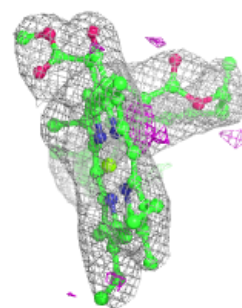
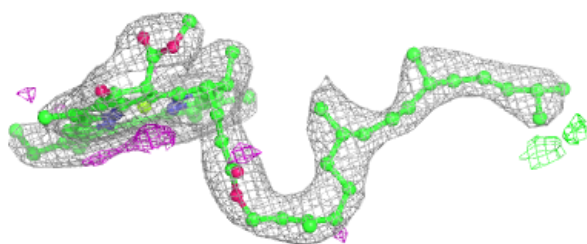
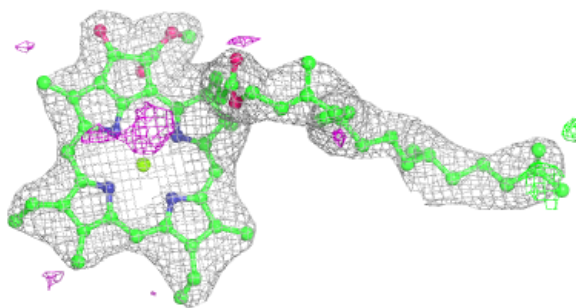
**Electron density around DGD C 517:**

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

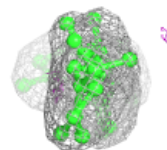
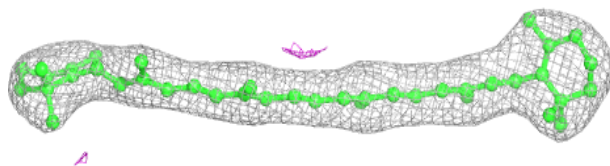
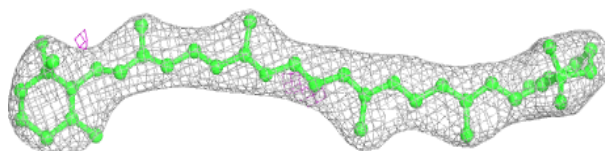


Electron density around CLA A 405:

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

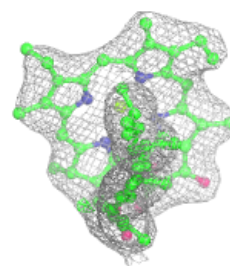
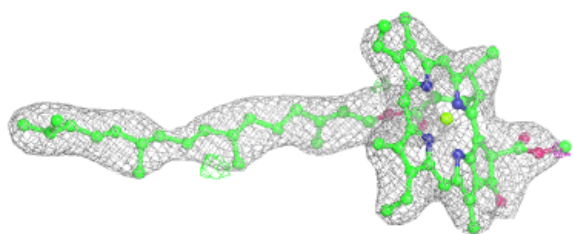
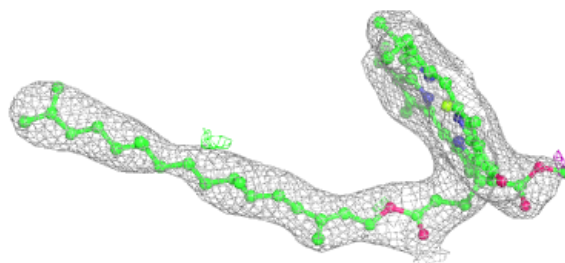
**Electron density around BCR B 618:**

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

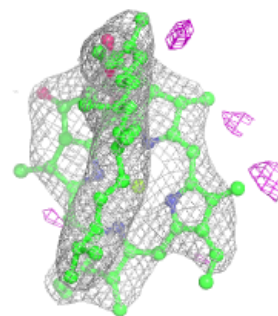
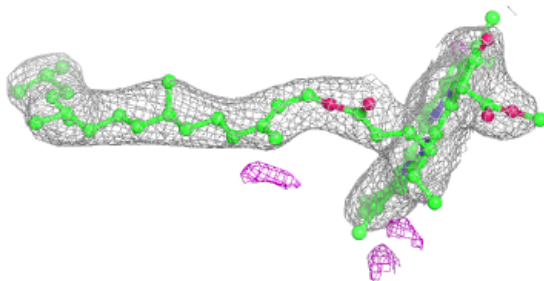
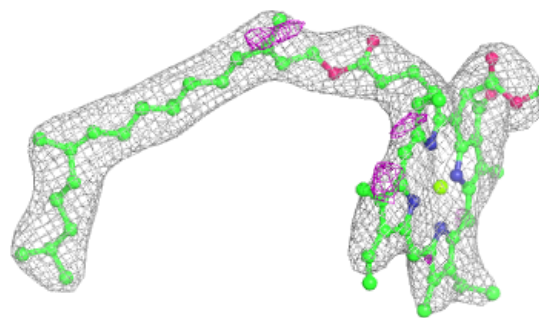


Electron density around CLA B 608:

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

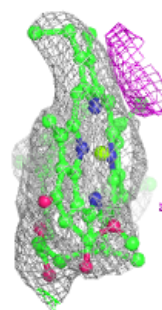
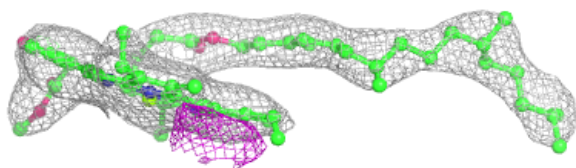
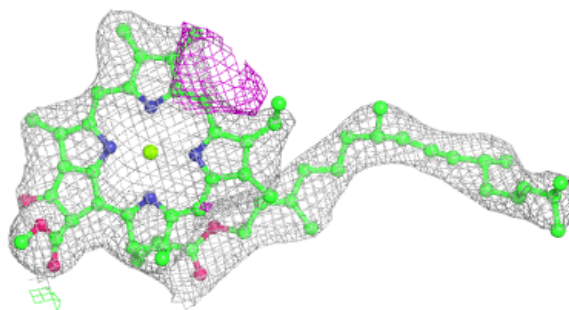
**Electron density around CLA B 610:**

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

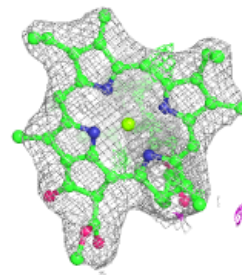
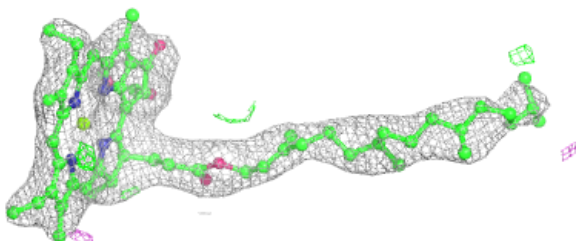
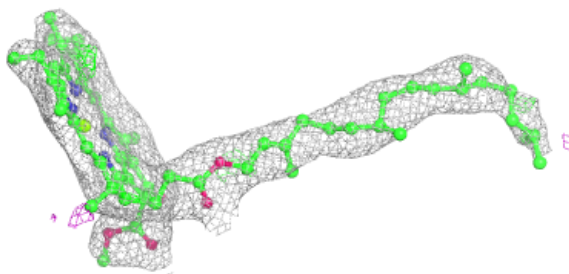


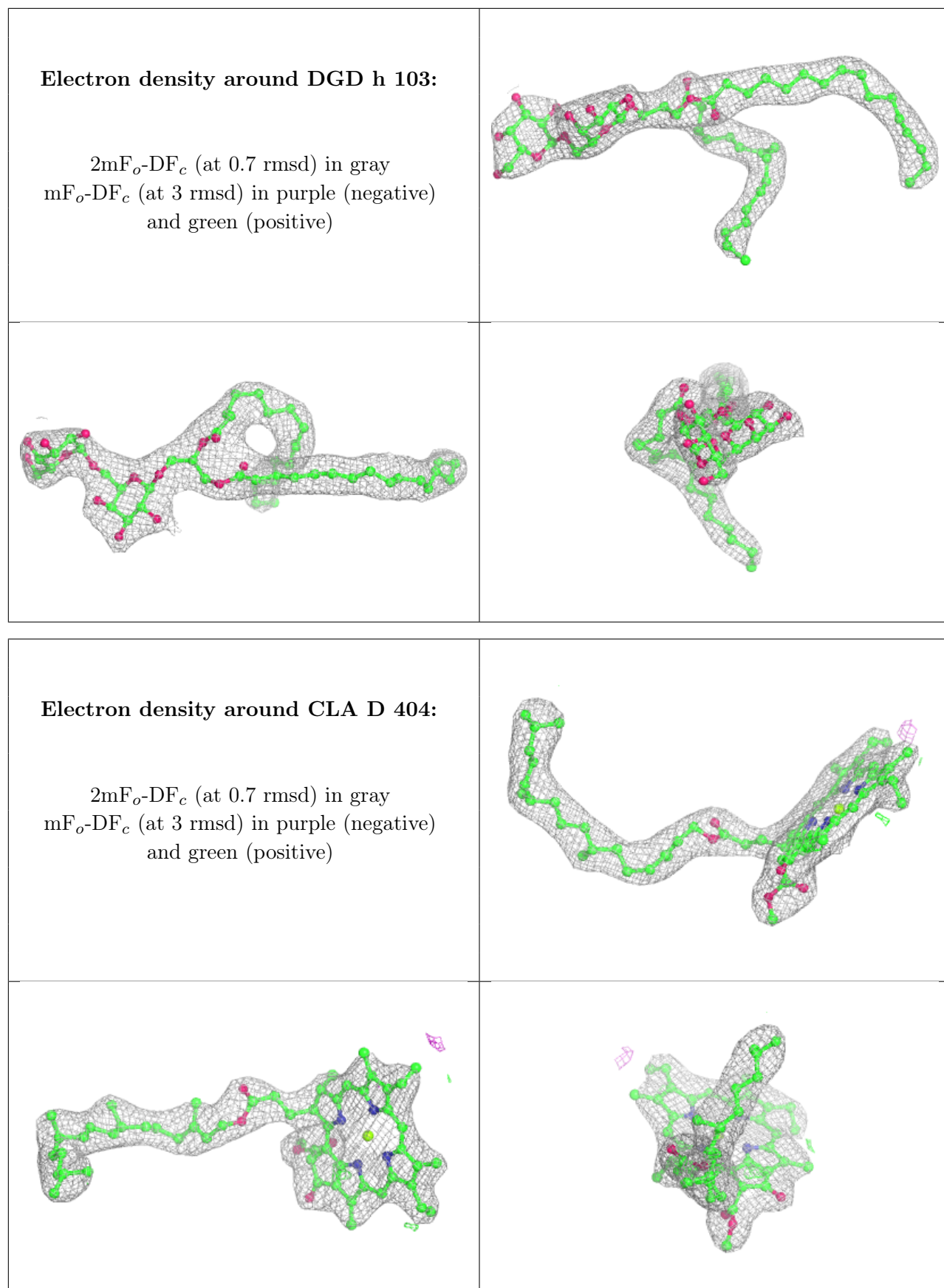
Electron density around CLA b 603:

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

**Electron density around CLA b 604:**

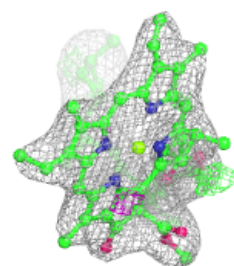
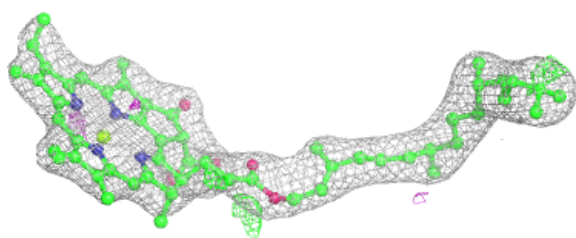
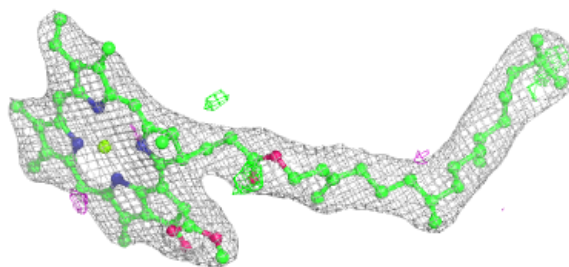
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



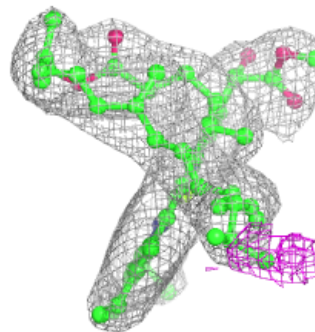
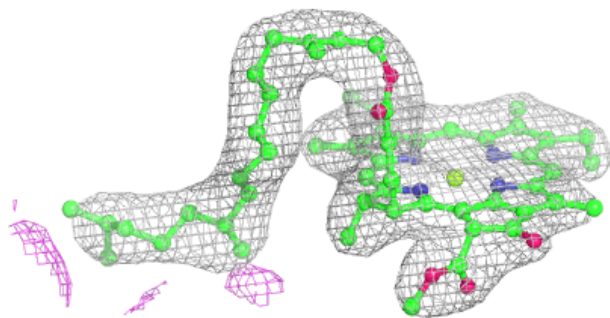
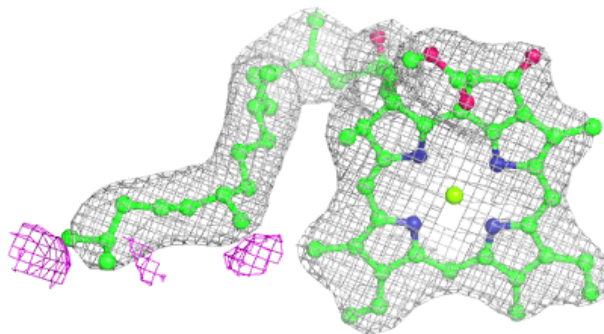


Electron density around CLA a 404:

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

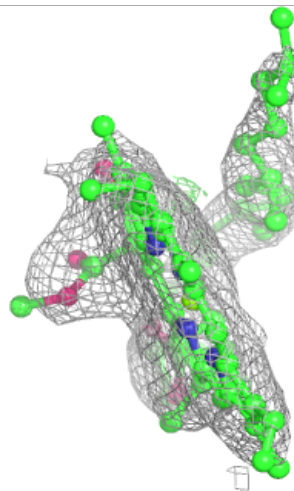
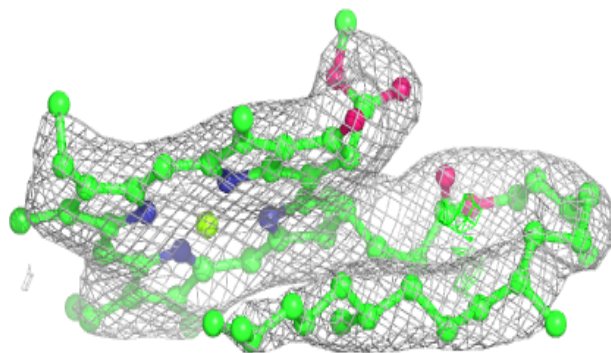
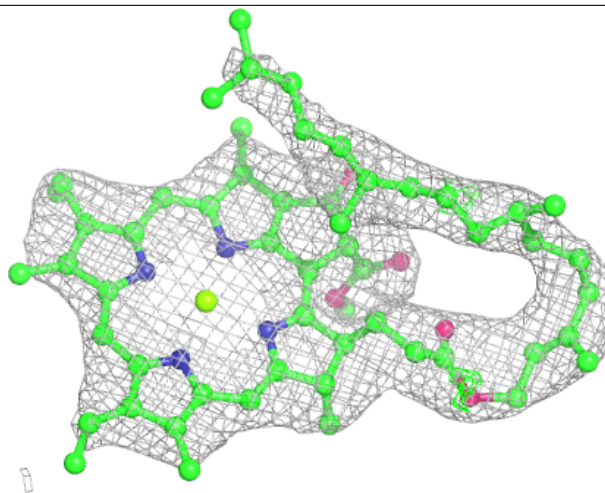
**Electron density around CLA a 405:**

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



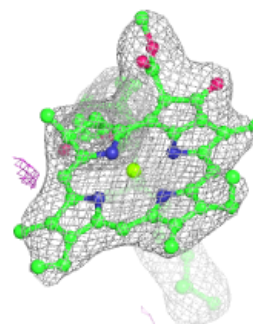
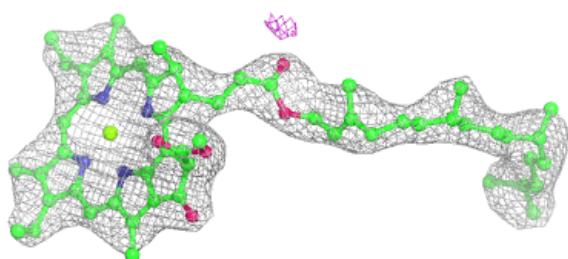
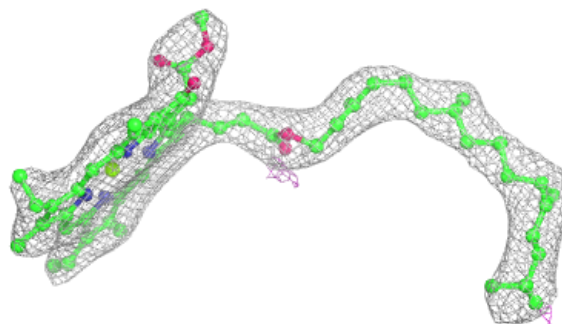
Electron density around CLA C 510:

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



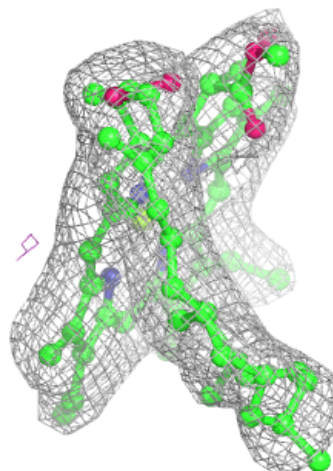
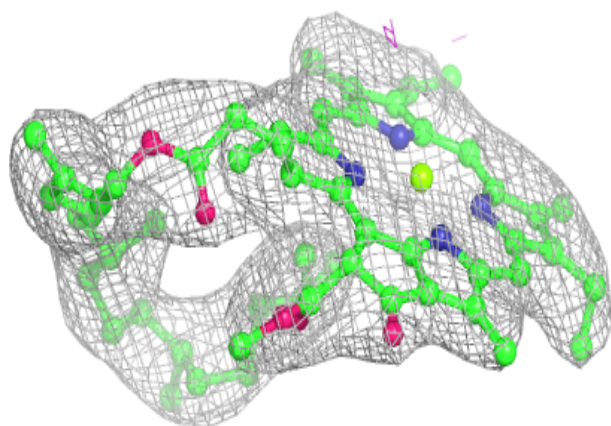
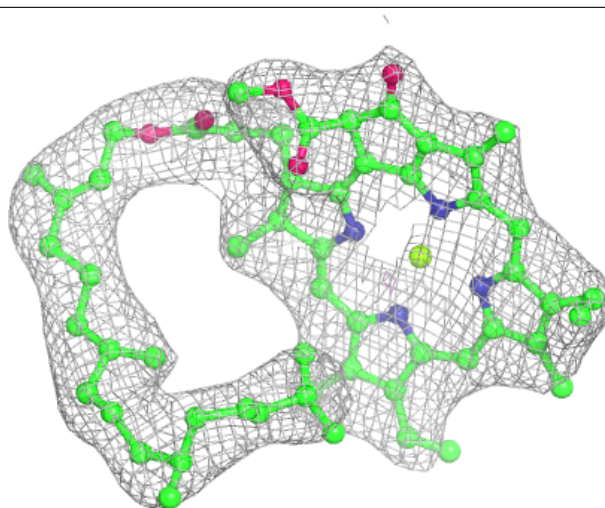
Electron density around CLA d 402:

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



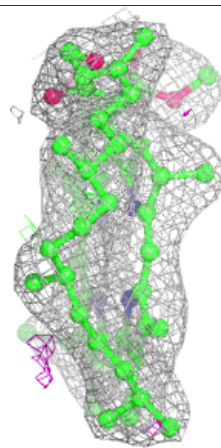
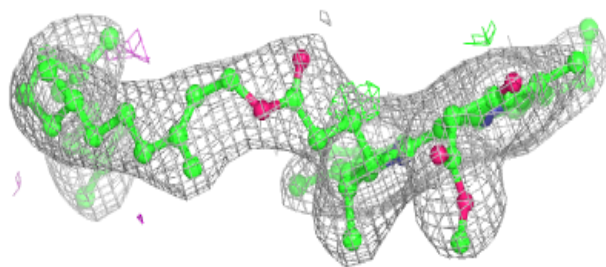
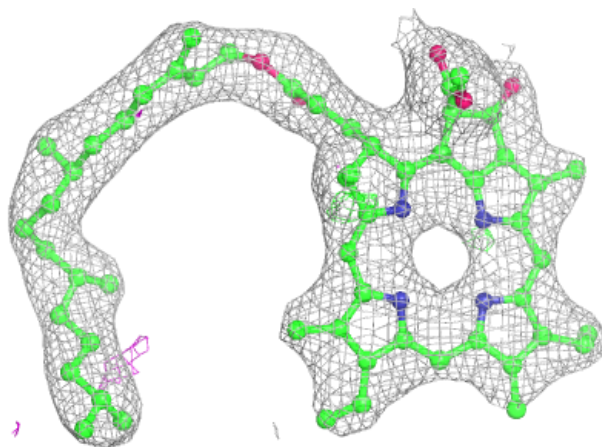
Electron density around CLA B 616:

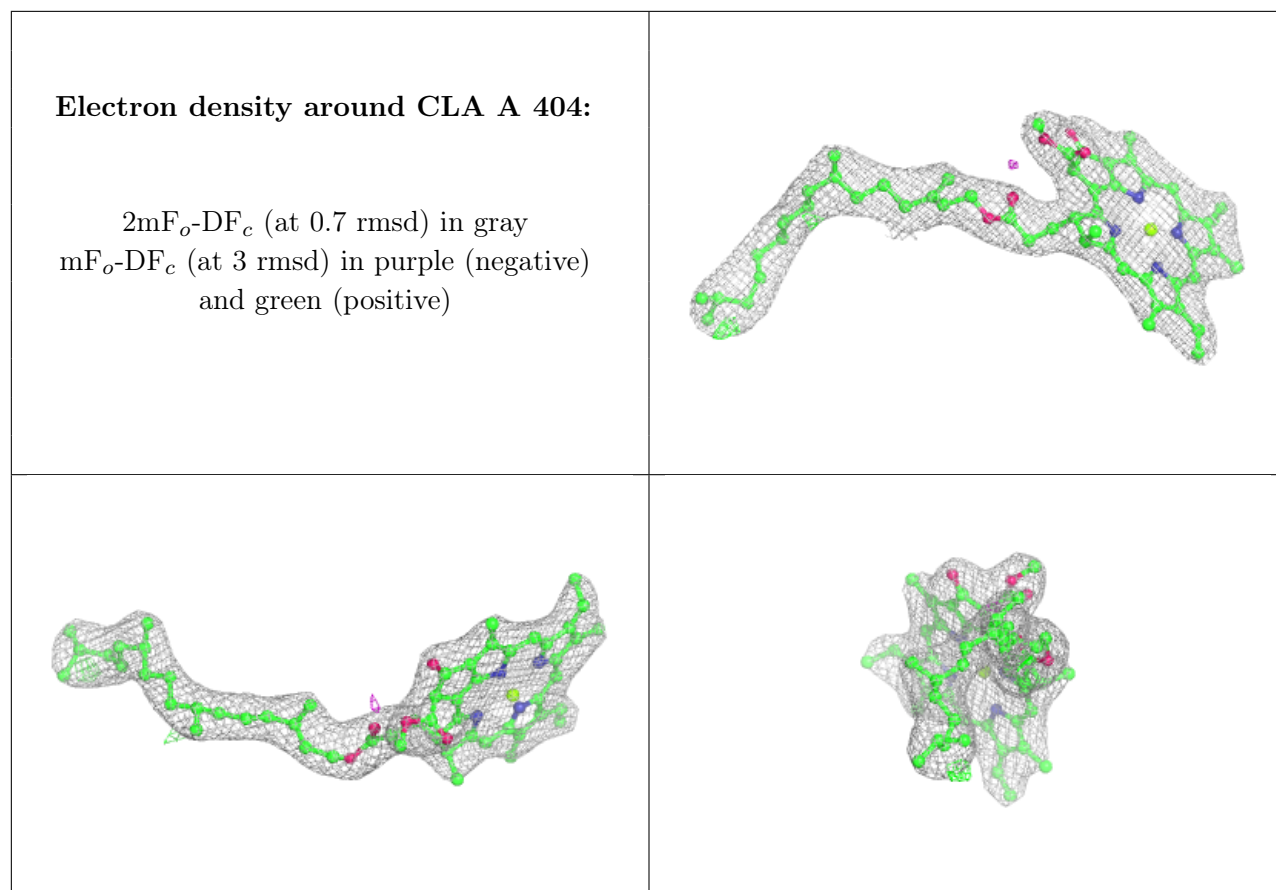
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around PHO A 406:

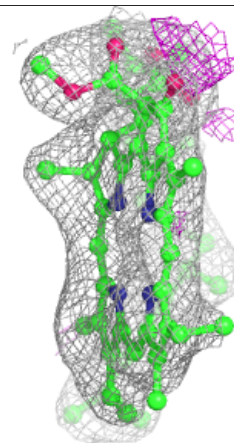
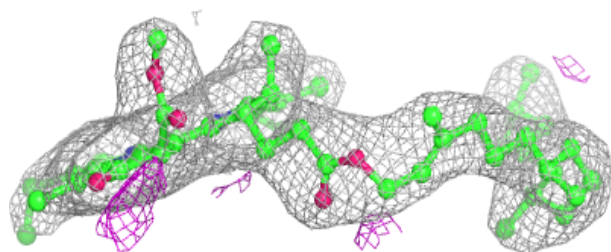
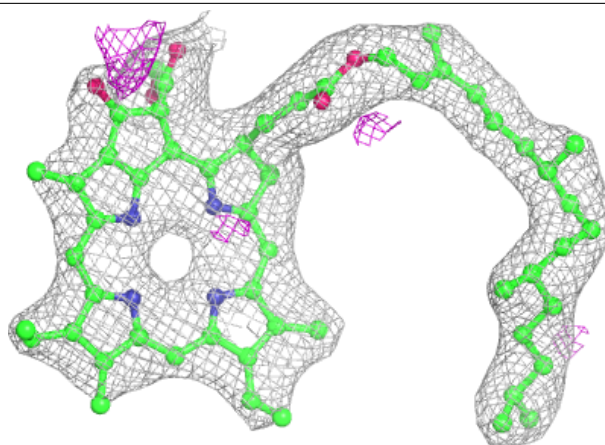
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





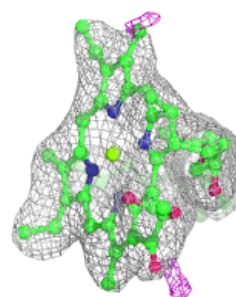
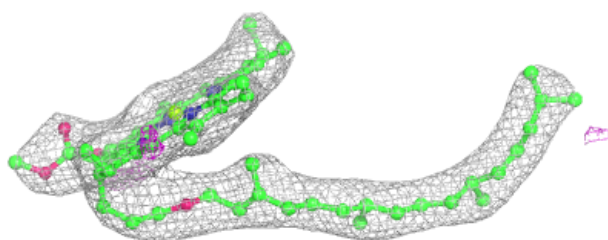
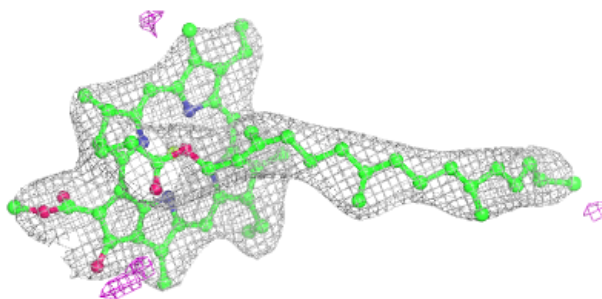
Electron density around PHO a 407:

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

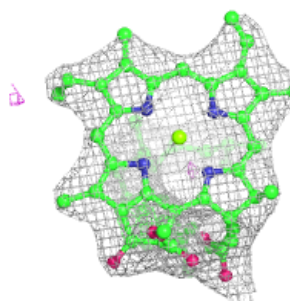
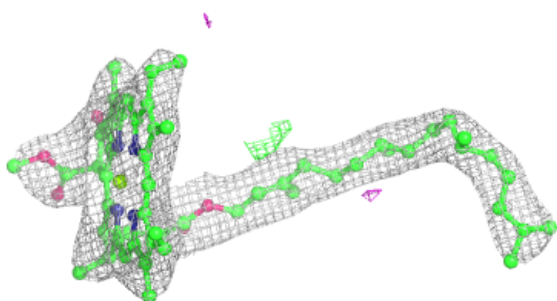
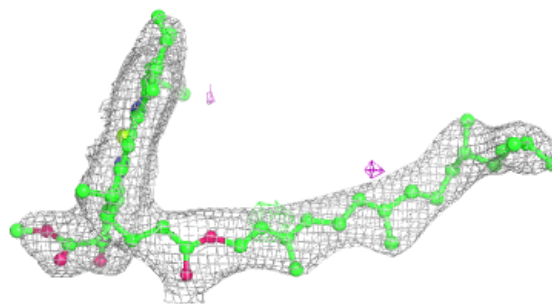


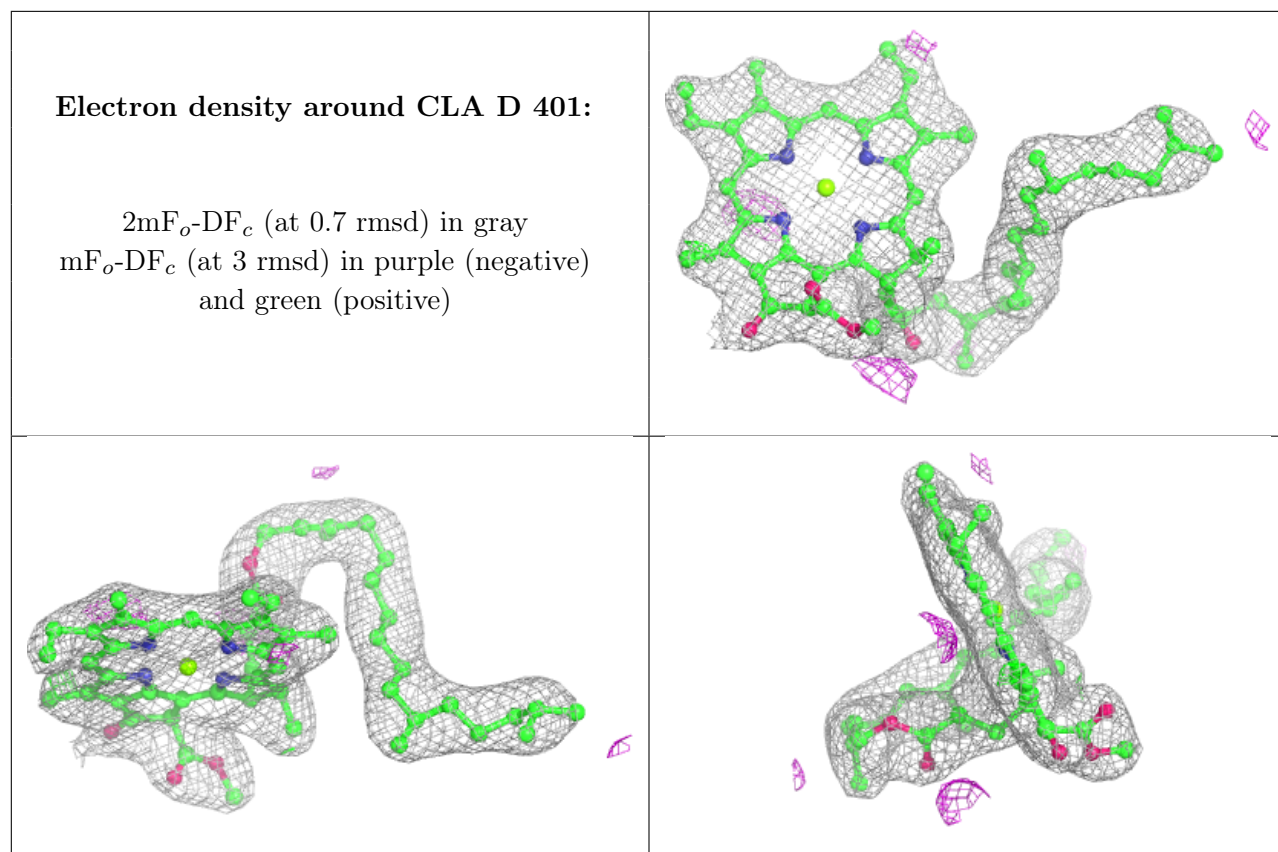
Electron density around CLA B 609:

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

**Electron density around CLA B 606:**

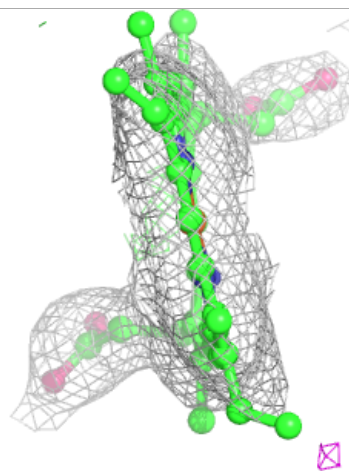
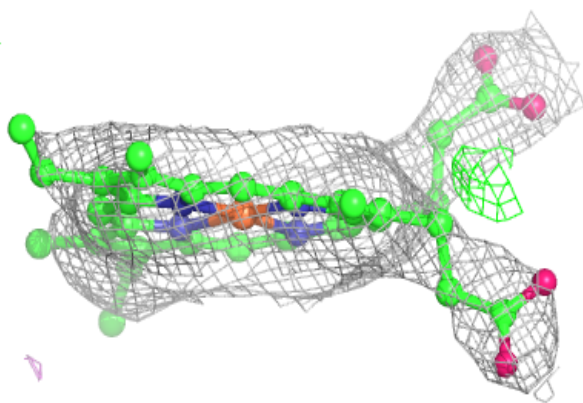
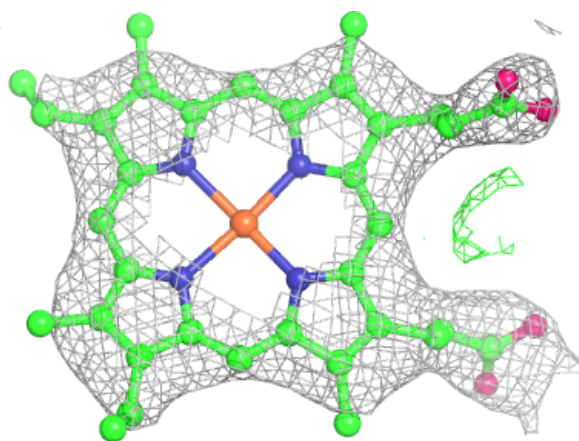
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





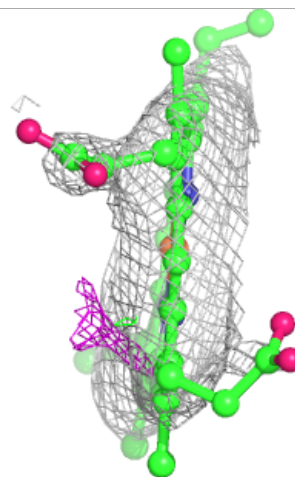
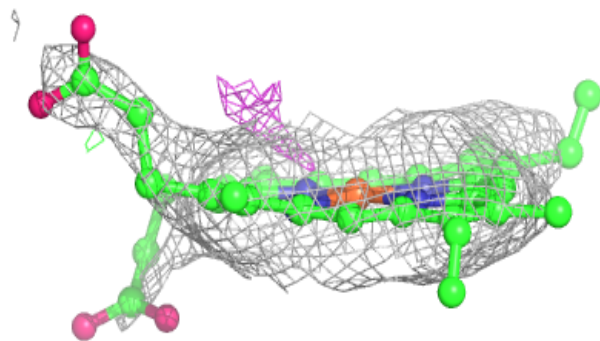
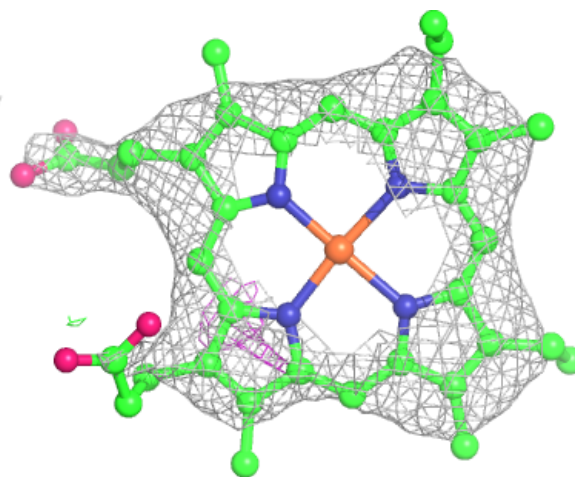
Electron density around HEM E 103:

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



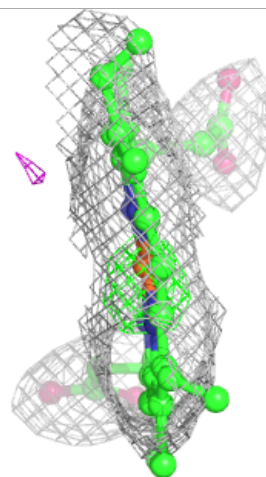
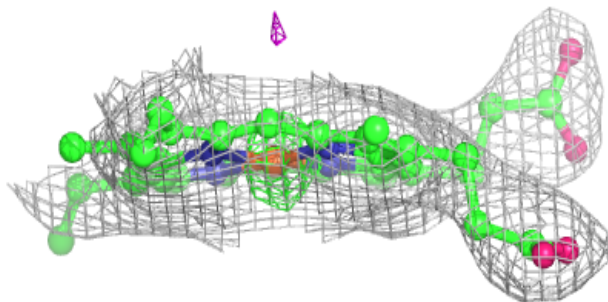
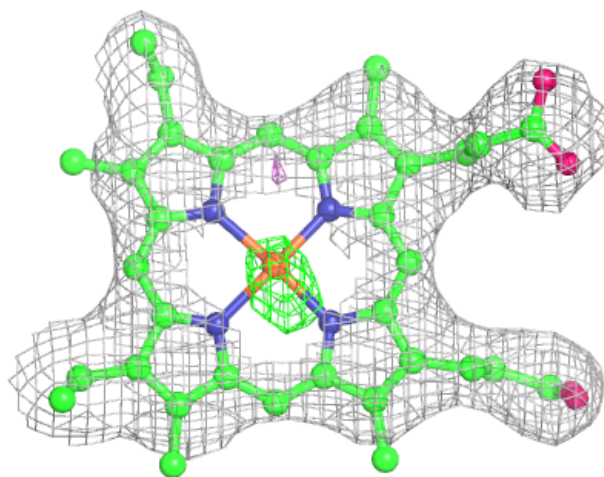
Electron density around HEM e 103:

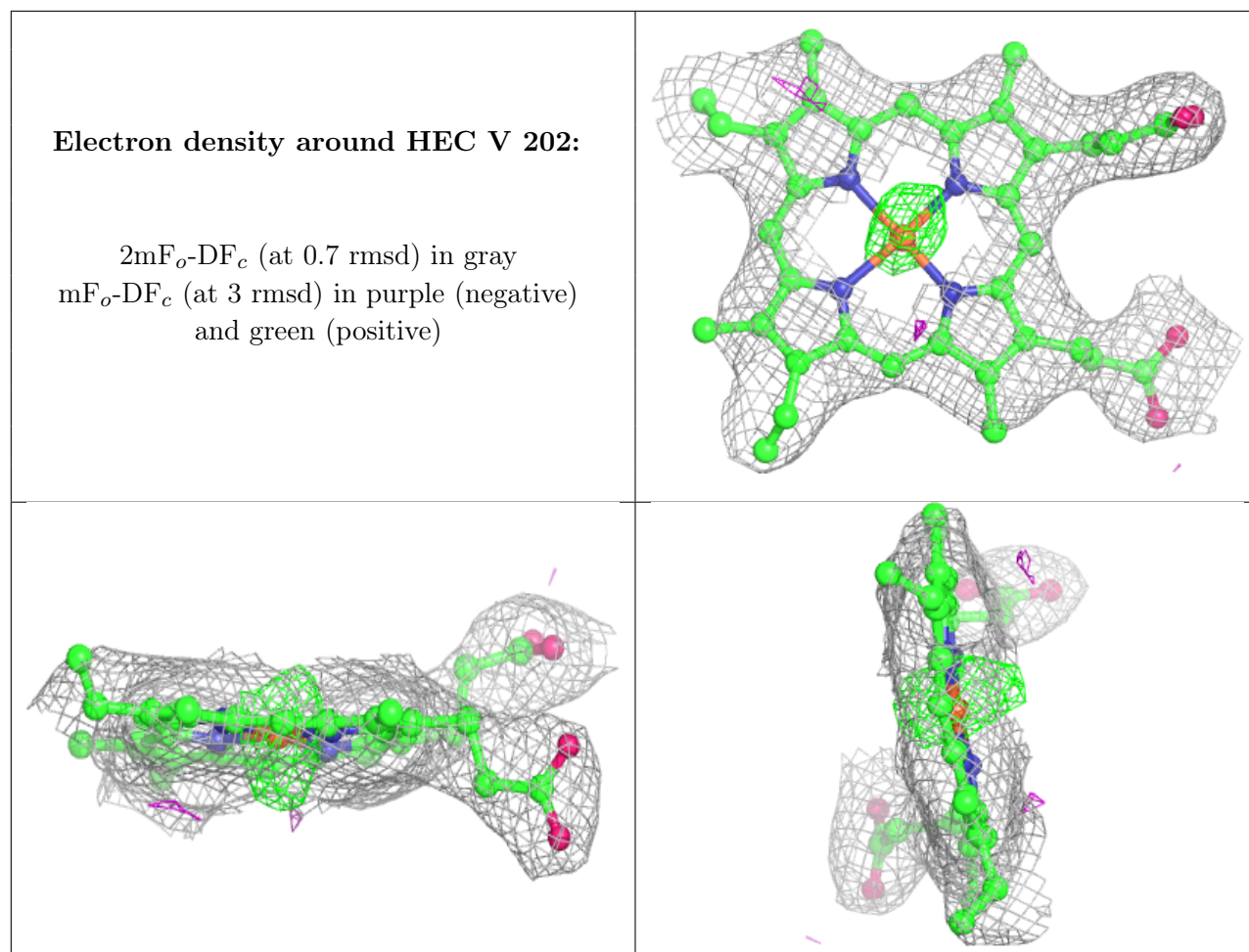
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around HEC v 201:

$2mF_o-DF_c$ (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.