



Full wwPDB EM Validation Report ⓘ

Aug 5, 2026 – 08:15 AM EDT

PDB ID : 8EQM / pdb_00008eqm
EMDB ID : EMD-28539
Title : Structure of a dimeric photosystem II complex acclimated to far-red light
Authors : Gisriel, C.J.; Shen, G.; Flesher, D.A.; Kurashov, V.; Golbeck, J.H.; Brudvig, G.W.; Amin, M.; Bryant, D.A.
Deposited on : 2022-10-08
Resolution : 2.60 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

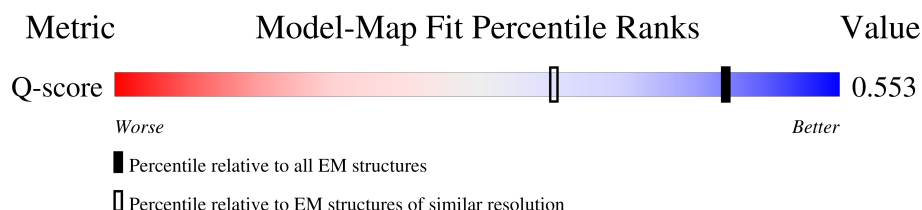
The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev133
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : **FAILED**
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

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ELECTRON MICROSCOPY

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	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Q-score	25397	8728 (2.10 - 3.10)

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
25	BCT	A	411	-	X	-	-
25	BCT	a	411	-	X	-	-

2 Entry composition

There are 34 unique types of molecules in this entry. The entry contains 42502 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Photosystem II protein D1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	333	Total	C	N	O	S	0	0
			2630	1723	431	461	15		
1	a	333	Total	C	N	O	S	0	0
			2630	1723	431	461	15		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	483	Total	C	N	O	S	0	0
			3784	2491	627	653	13		
2	b	483	Total	C	N	O	S	0	0
			3784	2491	627	653	13		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	453	Total	C	N	O	S	0	0
			3498	2290	591	604	13		
3	c	453	Total	C	N	O	S	0	0
			3498	2290	591	604	13		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	338	Total	C	N	O	S	1	0
			2709	1797	439	459	14		
4	d	338	Total	C	N	O	S	1	0
			2709	1797	439	459	14		

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

Mol	Chain	Residues	Atoms				AltConf	Trace
5	E	48	Total	C	N	O	0	0
			371	246	59	66		
5	e	48	Total	C	N	O	0	0
			371	246	59	66		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	30	Total	C	N	O	S	0	0
			237	159	41	36	1		
6	f	30	Total	C	N	O	S	0	0
			237	159	41	36	1		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
7	H	65	Total	C	N	O	S	0	0
			479	318	76	83	2		
7	h	65	Total	C	N	O	S	0	0
			479	318	76	83	2		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
8	I	34	Total	C	N	O	S	0	0
			261	178	39	43	1		
8	i	34	Total	C	N	O	S	0	0
			261	178	39	43	1		

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

Mol	Chain	Residues	Atoms				AltConf	Trace
9	K	37	Total	C	N	O	0	0
			291	203	45	43		
9	k	37	Total	C	N	O	0	0
			291	203	45	43		

- Molecule 10 is a protein called Photosystem II reaction center protein L.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	L	30	Total	C	N	O	0	0
			245	166	36	43		

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Mol	Chain	Residues	Atoms				AltConf	Trace
10	l	30	Total	C	N	O	0	0
			245	166	36	43		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
11	M	31	Total	C	N	O	S	0	0
			244	168	34	41	1		
11	m	31	Total	C	N	O	S	0	0
			244	168	34	41	1		

- Molecule 12 is a protein called Photosystem II manganese-stabilizing polypeptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	O	182	Total	C	N	O	S	0	0
			1238	788	221	228	1		
12	o	182	Total	C	N	O	S	0	0
			1238	788	221	228	1		

- Molecule 13 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	T	30	Total	C	N	O	S	0	0
			236	163	34	37	2		
13	t	30	Total	C	N	O	S	0	0
			236	163	34	37	2		

- Molecule 14 is a protein called Photosystem II 12 kDa extrinsic protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
14	U	79	Total	C	N	O	0	0
			525	329	96	100		
14	u	79	Total	C	N	O	0	0
			525	329	96	100		

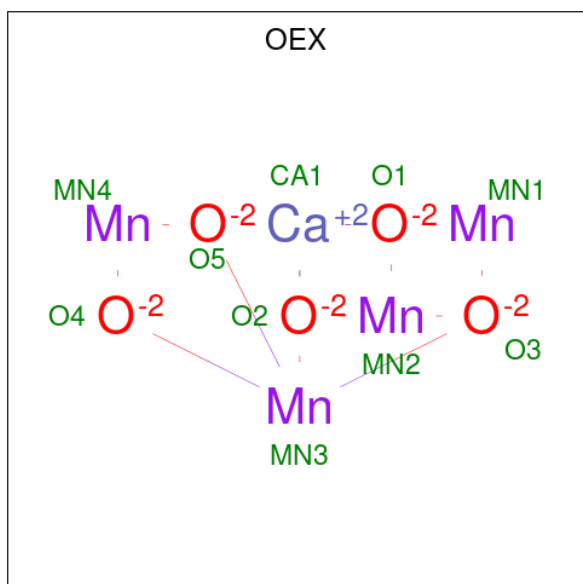
- Molecule 15 is a protein called Cytochrome c-550.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	V	131	Total	C	N	O	S	0	0
			826	518	153	151	4		
15	v	131	Total	C	N	O	S	0	0
			826	518	153	151	4		

- Molecule 16 is a protein called Photosystem II reaction center X protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	X	35	Total	C	N	O	S	0	0
			261	174	41	44	2		
16	x	35	Total	C	N	O	S	0	0
			261	174	41	44	2		

- Molecule 17 is CA-MN4-O5 CLUSTER (CCD ID: OEX) (formula: CaMn_4O_5).



Mol	Chain	Residues	Atoms			AltConf
17	A	1	Total	Ca	Mn	0
			5	1	4	
17	a	1	Total	Ca	Mn	0
			5	1	4	

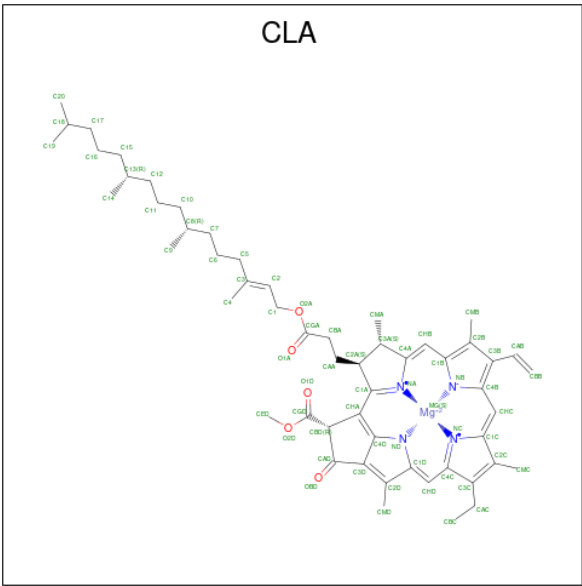
- Molecule 18 is FE (II) ION (CCD ID: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms		AltConf
18	A	1	Total	Fe	0
			1	1	
18	a	1	Total	Fe	0
			1	1	

- Molecule 19 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		AltConf
19	A	1	Total	Cl	0
			1	1	
19	C	1	Total	Cl	0
			1	1	
19	a	1	Total	Cl	0
			1	1	
19	c	1	Total	Cl	0
			1	1	

- Molecule 20 is CHLOROPHYLL A (CCD ID: CLA) (formula: C₅₅H₇₂MgN₄O₅).



Mol	Chain	Residues	Atoms					AltConf
20	A	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	A	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
20	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	B	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	C	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	D	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	D	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

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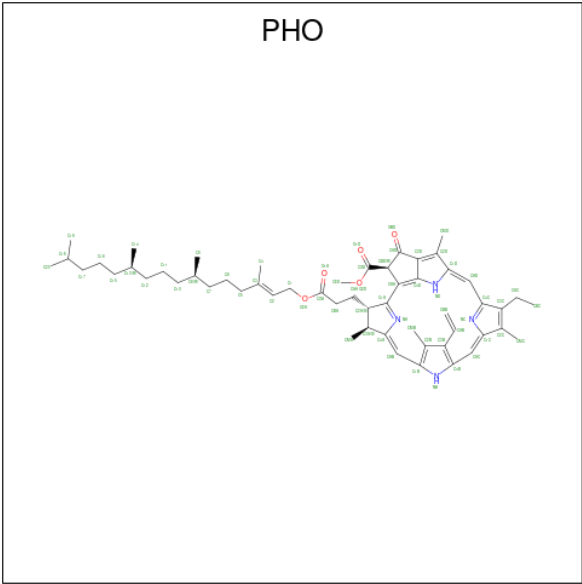
Mol	Chain	Residues	Atoms					AltConf
20	H	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	a	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	a	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	b	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			60	50	1	4	5	

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Mol	Chain	Residues	Atoms					AltConf
20	c	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			50	40	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	c	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	d	1	Total	C	Mg	N	O	0
			60	50	1	4	5	
20	d	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
20	h	1	Total	C	Mg	N	O	0
			50	40	1	4	5	

- Molecule 21 is PHEOPHYTIN A (CCD ID: PHO) (formula: C₅₅H₇₄N₄O₅).



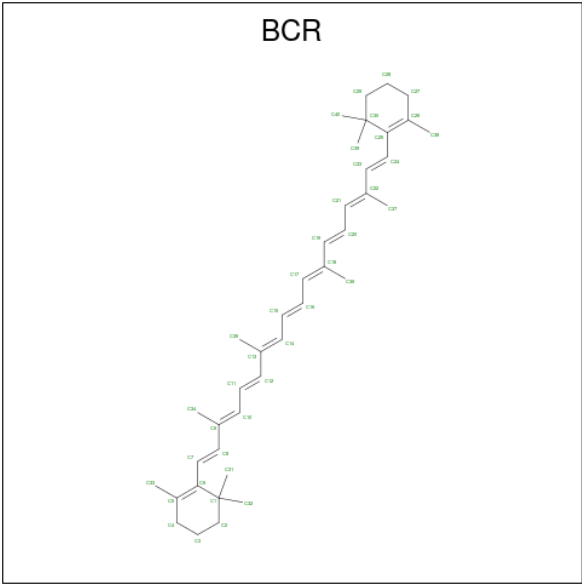
Mol	Chain	Residues	Atoms				AltConf
21	A	1	Total	C	N	O	0
			64	55	4	5	

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Mol	Chain	Residues	Atoms				AltConf
21	D	1	Total	C	N	O	0
			64	55	4	5	
21	a	1	Total	C	N	O	0
			64	55	4	5	
21	d	1	Total	C	N	O	0
			64	55	4	5	

- Molecule 22 is BETA-CAROTENE (CCD ID: BCR) (formula: C₄₀H₅₆).



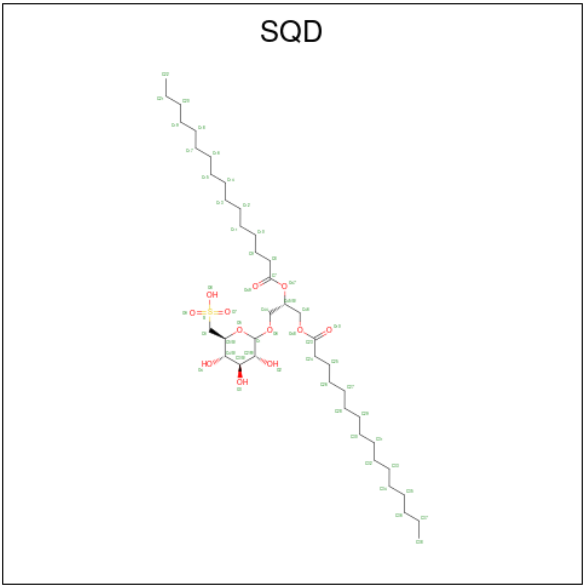
Mol	Chain	Residues	Atoms		AltConf
22	A	1	Total	C	0
			40	40	
22	B	1	Total	C	0
			40	40	
22	B	1	Total	C	0
			40	40	
22	B	1	Total	C	0
			40	40	
22	C	1	Total	C	0
			40	40	
22	C	1	Total	C	0
			20	20	
22	D	1	Total	C	0
			26	26	
22	a	1	Total	C	0
			40	40	

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Mol	Chain	Residues	Atoms		AltConf
22	b	1	Total	C	0
			40	40	
22	b	1	Total	C	0
			40	40	
22	b	1	Total	C	0
			40	40	
22	c	1	Total	C	0
			40	40	
22	c	1	Total	C	0
			20	20	
22	d	1	Total	C	0
			26	26	

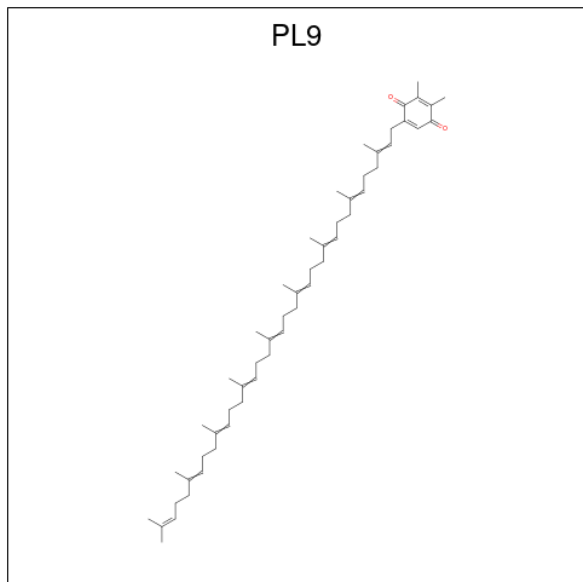
- Molecule 23 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (CCD ID: SQD) (formula: C₄₁H₇₈O₁₂S).



Mol	Chain	Residues	Atoms				AltConf
23	A	1	Total	C	O	S	0
			52	39	12	1	
23	L	1	Total	C	O	S	0
			54	41	12	1	
23	a	1	Total	C	O	S	0
			52	39	12	1	
23	l	1	Total	C	O	S	0
			54	41	12	1	

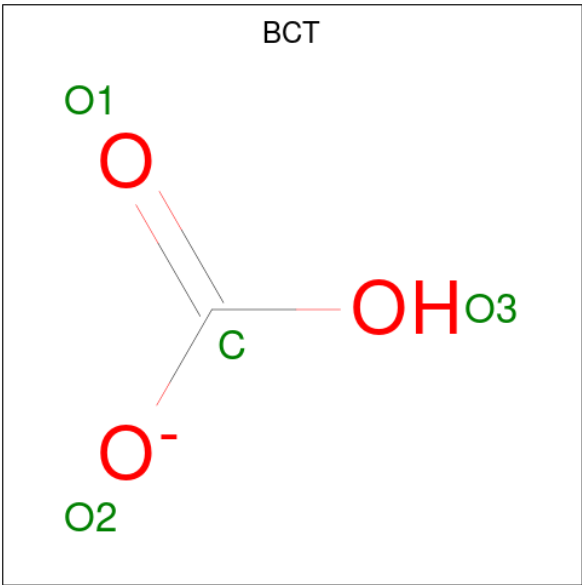
- Molecule 24 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22

,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (CCD ID: PL9) (formula: $C_{53}H_{80}O_2$).



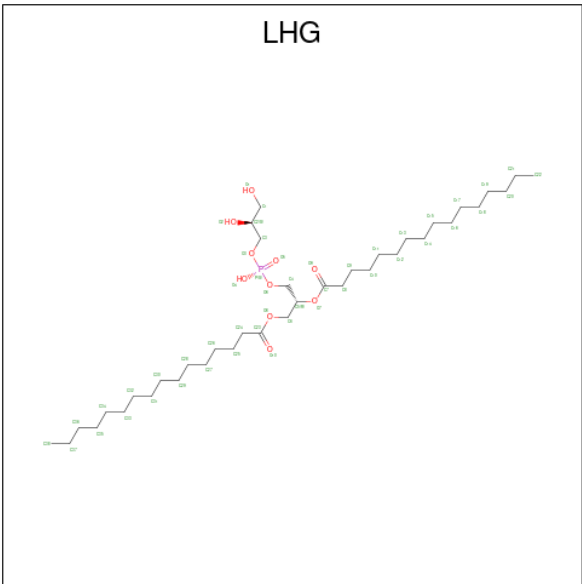
Mol	Chain	Residues	Atoms			AltConf
24	A	1	Total	C	O	0
			20	18	2	
24	D	1	Total	C	O	0
			45	43	2	
24	a	1	Total	C	O	0
			20	18	2	
24	d	1	Total	C	O	0
			45	43	2	

- Molecule 25 is BICARBONATE ION (CCD ID: BCT) (formula: CHO_3).



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

- Molecule 26 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: C₃₈H₇₅O₁₀P).



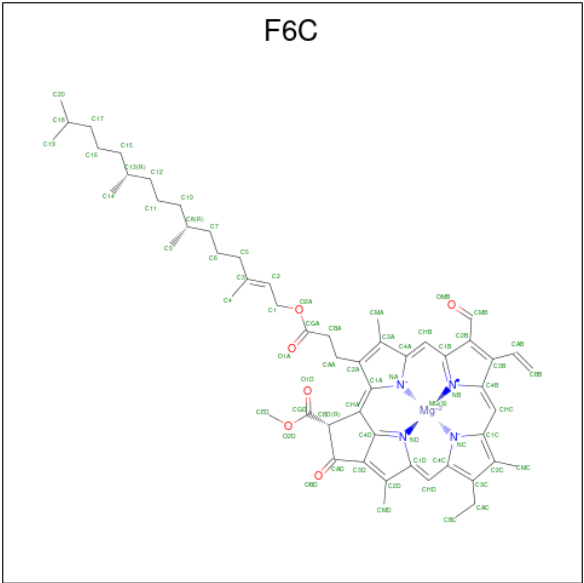
Mol	Chain	Residues	Atoms				AltConf
26	A	1	Total	C	O	P	0
			37	26	10	1	

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Mol	Chain	Residues	Atoms				AltConf
26	D	1	Total	C	O	P	0
			49	38	10	1	
26	D	1	Total	C	O	P	0
			47	36	10	1	
26	L	1	Total	C	O	P	0
			49	38	10	1	
26	a	1	Total	C	O	P	0
			37	26	10	1	
26	d	1	Total	C	O	P	0
			49	38	10	1	
26	d	1	Total	C	O	P	0
			47	36	10	1	
26	l	1	Total	C	O	P	0
			49	38	10	1	

- Molecule 27 is Chlorophyll F (CCD ID: F6C) (formula: C₅₅H₆₈MgN₄O₆) (labeled as "Ligand of Interest" by depositor).



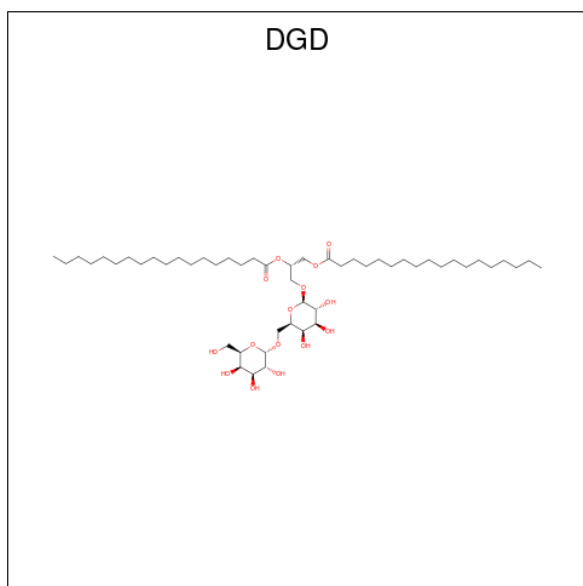
Mol	Chain	Residues	Atoms					AltConf
27	B	1	Total 66	C 55	Mg 1	N 4	O 6	0
27	B	1	Total 61	C 50	Mg 1	N 4	O 6	0
27	B	1	Total 66	C 55	Mg 1	N 4	O 6	0
27	C	1	Total 61	C 50	Mg 1	N 4	O 6	0

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Mol	Chain	Residues	Atoms					AltConf
27	b	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
27	b	1	Total	C	Mg	N	O	0
			61	50	1	4	6	
27	b	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
27	c	1	Total	C	Mg	N	O	0
			61	50	1	4	6	

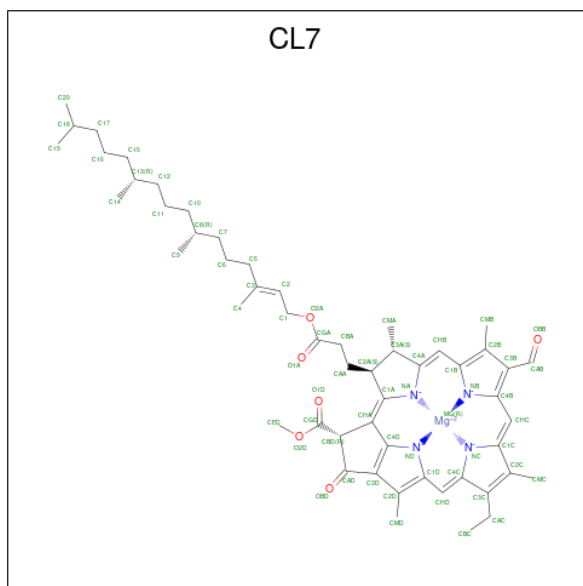
- Molecule 28 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$).



Mol	Chain	Residues	Atoms			AltConf
28	C	1	Total	C	O	0
			49	34	15	
28	C	1	Total	C	O	0
			34	25	9	
28	D	1	Total	C	O	0
			45	36	9	
28	c	1	Total	C	O	0
			49	34	15	
28	c	1	Total	C	O	0
			34	25	9	
28	d	1	Total	C	O	0
			45	36	9	

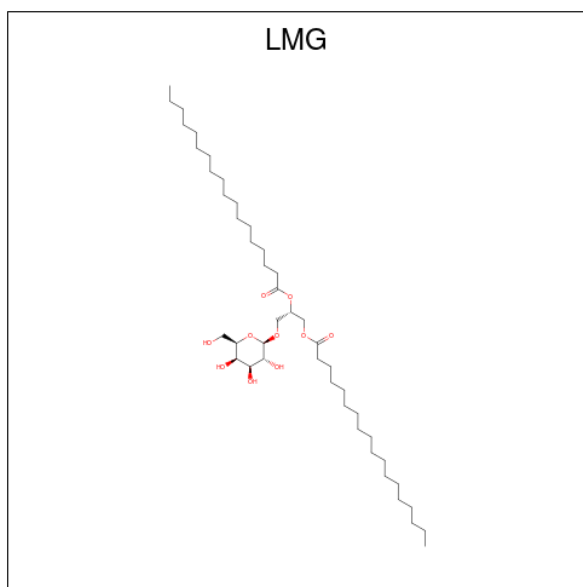
- Molecule 29 is CHLOROPHYLL D (CCD ID: CL7) (formula: $C_{54}H_{70}MgN_4O_6$) (labeled as

"Ligand of Interest" by depositor).



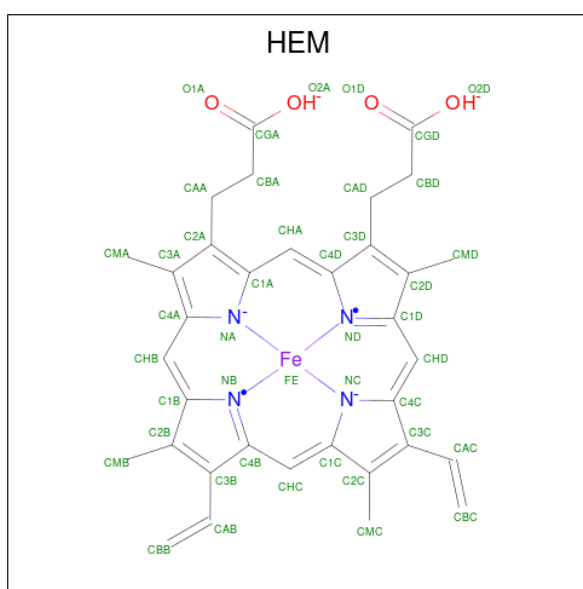
Mol	Chain	Residues	Atoms					AltConf
29	D	1	Total 65	C 54	Mg 1	N 4	O 6	0
29	d	1	Total 65	C 54	Mg 1	N 4	O 6	0

- Molecule 30 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (CCD ID: LMG) (formula: $C_{45}H_{86}O_{10}$).



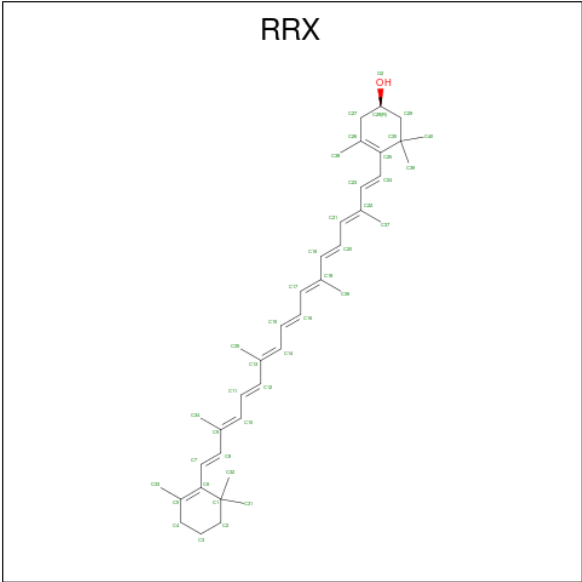
Mol	Chain	Residues	Atoms			AltConf
30	D	1	Total 33	C 23	O 10	0
30	M	1	Total 40	C 30	O 10	0
30	d	1	Total 33	C 23	O 10	0
30	m	1	Total 40	C 30	O 10	0

- Molecule 31 is PROTOPORPHYRIN IX CONTAINING FE (CCD ID: HEM) (formula: $C_{34}H_{32}FeN_4O_4$).



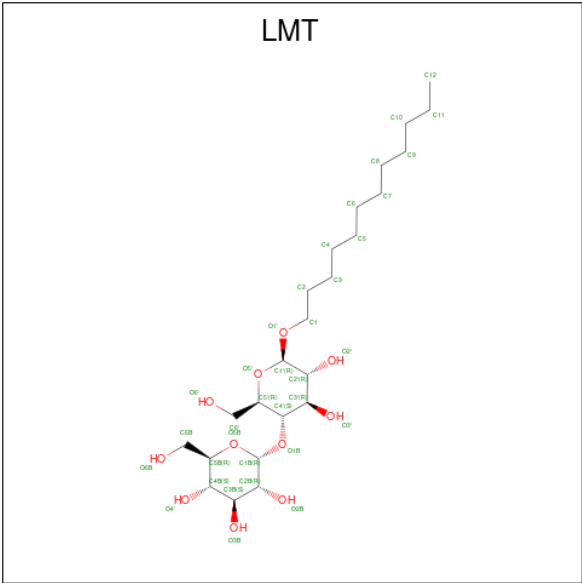
Mol	Chain	Residues	Atoms					AltConf
31	E	1	Total 43	C 34	Fe 1	N 4	O 4	0
31	V	1	Total 43	C 34	Fe 1	N 4	O 4	0
31	e	1	Total 43	C 34	Fe 1	N 4	O 4	0
31	v	1	Total 43	C 34	Fe 1	N 4	O 4	0

- Molecule 32 is (3R)-beta,beta-caroten-3-ol (CCD ID: RRX) (formula: $C_{40}H_{56}O$).



Mol	Chain	Residues	Atoms			AltConf
32	H	1	Total	C	O	0
			41	40	1	
32	h	1	Total	C	O	0
			41	40	1	

- Molecule 33 is DODECYL-BETA-D-MALTOSE (CCD ID: LMT) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms			AltConf
33	M	1	Total	C	O	0
			35	24	11	
33	m	1	Total	C	O	0
			35	24	11	

- Molecule 34 is water.

Mol	Chain	Residues	Atoms		AltConf
34	A	75	Total 75	O 75	0
34	B	69	Total 69	O 69	0
34	C	63	Total 63	O 63	0
34	D	60	Total 60	O 60	0
34	E	1	Total 1	O 1	0
34	F	1	Total 1	O 1	0
34	H	7	Total 7	O 7	0
34	L	6	Total 6	O 6	0
34	M	4	Total 4	O 4	0
34	O	3	Total 3	O 3	0
34	T	5	Total 5	O 5	0
34	X	1	Total 1	O 1	0
34	a	75	Total 75	O 75	0
34	b	69	Total 69	O 69	0
34	c	63	Total 63	O 63	0
34	d	60	Total 60	O 60	0
34	e	1	Total 1	O 1	0
34	f	1	Total 1	O 1	0
34	h	7	Total 7	O 7	0
34	l	6	Total 6	O 6	0
34	m	4	Total 4	O 4	0

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Mol	Chain	Residues	Atoms		AltConf
34	o	3	Total 3	O 3	0
34	t	5	Total 5	O 5	0
34	x	1	Total 1	O 1	0

MolProbity failed to run properly - this section is therefore empty.

3 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	90191	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	41.1	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.032	Depositor
Minimum map value	-0.017	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.001	Depositor
Recommended contour level	0.0013	Depositor
Map size (Å)	319.488, 319.488, 319.488	wwPDB
Map dimensions	384, 384, 384	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.832, 0.832, 0.832	Depositor

4 Model quality [i](#)

4.1 Standard geometry [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

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

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

4.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

4.6 Ligand geometry [i](#)

Of 132 ligands modelled in this entry, 6 are monoatomic - leaving 126 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
20	CLA	b	605	2	69,73,73	2.24	20 (28%)	82,113,113	2.59	34 (41%)
20	CLA	c	514	3	49,53,73	2.55	21 (42%)	58,89,113	2.76	24 (41%)
29	CL7	D	401	34	69,73,73	2.28	23 (33%)	80,113,113	2.38	23 (28%)
21	PHO	A	406	-	58,69,69	2.06	11 (18%)	55,99,99	1.65	13 (23%)
20	CLA	B	606	-	59,63,73	2.44	23 (38%)	70,101,113	2.64	25 (35%)
22	BCR	A	408	-	41,41,41	2.68	6 (14%)	56,56,56	6.54	21 (37%)
20	CLA	b	606	-	59,63,73	2.44	23 (38%)	70,101,113	2.64	25 (35%)
20	CLA	A	404	1	69,73,73	2.26	23 (33%)	82,113,113	2.46	25 (30%)
20	CLA	B	605	2	69,73,73	2.24	20 (28%)	82,113,113	2.59	34 (41%)
24	PL9	d	406	-	45,45,55	1.97	11 (24%)	56,57,69	1.56	10 (17%)
20	CLA	d	404	-	49,53,73	2.52	20 (40%)	58,89,113	2.86	22 (37%)
26	LHG	L	101	-	48,48,48	0.94	3 (6%)	51,54,54	1.04	4 (7%)
20	CLA	b	611	2	69,73,73	2.15	20 (28%)	82,113,113	2.41	27 (32%)
30	LMG	D	409	-	33,33,55	1.14	2 (6%)	41,41,63	1.24	4 (9%)
20	CLA	C	510	3	69,73,73	2.21	20 (28%)	82,113,113	2.48	30 (36%)
25	BCT	A	411	18	3,3,3	1.53	1 (33%)	2,3,3	4.50	2 (100%)
23	SQD	L	102	-	52,54,54	0.95	5 (9%)	62,65,65	1.91	13 (20%)
22	BCR	b	616	-	41,41,41	2.60	6 (14%)	56,56,56	6.66	30 (53%)
20	CLA	C	503	3	69,73,73	2.21	20 (28%)	82,113,113	2.53	31 (37%)
27	F6C	b	613	2	72,74,74	2.62	26 (36%)	83,114,114	3.20	31 (37%)
20	CLA	C	505	34	54,58,73	2.46	22 (40%)	64,95,113	2.76	25 (39%)
20	CLA	B	612	2	69,73,73	2.22	21 (30%)	82,113,113	2.58	30 (36%)
20	CLA	c	503	3	69,73,73	2.21	20 (28%)	82,113,113	2.53	31 (37%)
20	CLA	c	511	3	69,73,73	2.22	20 (28%)	82,113,113	2.57	25 (30%)
27	F6C	B	607	34	67,69,74	2.83	30 (44%)	77,108,114	3.23	34 (44%)
20	CLA	c	509	3	64,68,73	2.30	20 (31%)	76,107,113	2.45	30 (39%)
26	LHG	d	408	-	46,46,48	0.94	4 (8%)	49,52,54	1.04	4 (8%)
27	F6C	b	604	2	72,74,74	2.66	24 (33%)	83,114,114	3.16	36 (43%)
22	BCR	B	616	-	41,41,41	2.60	6 (14%)	56,56,56	6.66	29 (51%)
21	PHO	a	406	-	58,69,69	2.06	11 (18%)	55,99,99	1.65	13 (23%)
20	CLA	c	504	3	69,73,73	2.22	22 (31%)	82,113,113	2.51	28 (34%)
22	BCR	d	405	-	25,26,41	2.92	5 (20%)	32,34,56	7.35	12 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
28	DGD	C	517	-	34,34,67	1.19	5 (14%)	42,42,81	1.31	3 (7%)
20	CLA	c	505	34	54,58,73	2.46	22 (40%)	64,95,113	2.75	25 (39%)
20	CLA	D	403	4	64,68,73	2.27	22 (34%)	76,107,113	2.71	22 (28%)
26	LHG	D	408	-	46,46,48	0.95	4 (8%)	49,52,54	1.04	3 (6%)
24	PL9	A	410	-	20,20,55	2.84	7 (35%)	26,27,69	1.93	7 (26%)
20	CLA	B	610	34	69,73,73	2.13	20 (28%)	82,113,113	2.66	30 (36%)
27	F6C	B	604	2	72,74,74	2.66	24 (33%)	83,114,114	3.16	36 (43%)
20	CLA	a	404	1	69,73,73	2.26	23 (33%)	82,113,113	2.47	25 (30%)
21	PHO	d	402	-	58,69,69	2.09	10 (17%)	55,99,99	1.49	8 (14%)
20	CLA	b	609	2	49,53,73	2.54	19 (38%)	58,89,113	2.83	22 (37%)
31	HEM	E	101	5	50,50,50	1.39	7 (14%)	67,82,82	1.15	5 (7%)
33	LMT	M	102	-	36,36,36	1.25	7 (19%)	47,47,47	0.99	0
20	CLA	B	614	2	59,63,73	2.33	21 (35%)	70,101,113	2.62	24 (34%)
20	CLA	C	513	3	49,53,73	2.50	19 (38%)	58,89,113	2.74	22 (37%)
32	RRX	H	102	-	42,42,42	1.33	8 (19%)	56,58,58	1.52	12 (21%)
28	DGD	c	516	-	50,50,67	1.29	8 (16%)	64,64,81	1.47	13 (20%)
26	LHG	l	101	-	48,48,48	0.94	3 (6%)	51,54,54	1.04	4 (7%)
20	CLA	C	514	3	49,53,73	2.55	21 (42%)	58,89,113	2.76	24 (41%)
26	LHG	D	407	-	48,48,48	0.90	3 (6%)	51,54,54	1.33	6 (11%)
20	CLA	b	601	-	49,53,73	2.51	20 (40%)	58,89,113	2.71	22 (37%)
28	DGD	D	410	-	45,45,67	0.90	2 (4%)	53,53,81	1.21	2 (3%)
20	CLA	C	504	3	69,73,73	2.22	22 (31%)	82,113,113	2.51	28 (34%)
22	BCR	B	618	-	41,41,41	2.70	6 (14%)	56,56,56	6.71	21 (37%)
20	CLA	B	611	2	69,73,73	2.15	20 (28%)	82,113,113	2.42	27 (32%)
20	CLA	b	612	2	69,73,73	2.22	21 (30%)	82,113,113	2.58	30 (36%)
20	CLA	c	512	3	54,58,73	2.43	20 (37%)	64,95,113	2.93	26 (40%)
20	CLA	a	405	34	54,58,73	2.46	20 (37%)	64,95,113	2.90	28 (43%)
20	CLA	h	101	2	54,58,73	2.44	20 (37%)	64,95,113	2.86	27 (42%)
20	CLA	c	502	3	64,68,73	2.29	21 (32%)	76,107,113	2.51	22 (28%)
25	BCT	a	411	18	3,3,3	1.53	1 (33%)	2,3,3	4.50	2 (100%)
22	BCR	D	405	-	25,26,41	2.92	5 (20%)	32,34,56	7.36	11 (34%)
20	CLA	c	506	3	64,68,73	2.26	20 (31%)	76,107,113	2.62	27 (35%)
26	LHG	a	412	1	36,36,48	1.06	4 (11%)	39,42,54	1.41	5 (12%)
30	LMG	M	101	-	40,40,55	1.16	4 (10%)	48,48,63	1.29	5 (10%)
23	SQD	a	409	-	50,52,54	0.38	1 (2%)	60,63,65	0.40	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
20	CLA	C	507	3	59,63,73	2.48	22 (37%)	70,101,113	2.75	31 (44%)
20	CLA	B	608	2	59,63,73	2.42	20 (33%)	70,101,113	2.58	28 (40%)
20	CLA	c	510	3	69,73,73	2.21	20 (28%)	82,113,113	2.48	30 (36%)
20	CLA	b	614	2	59,63,73	2.33	20 (33%)	70,101,113	2.62	24 (34%)
22	BCR	c	518	-	20,20,41	2.53	3 (15%)	27,27,56	5.86	10 (37%)
32	RRX	h	102	-	42,42,42	1.33	8 (19%)	56,58,58	1.51	12 (21%)
22	BCR	C	518	-	20,20,41	2.54	3 (15%)	27,27,56	5.85	10 (37%)
20	CLA	a	407	1	54,58,73	2.55	23 (42%)	64,95,113	2.75	25 (39%)
24	PL9	a	410	-	20,20,55	2.84	7 (35%)	26,27,69	1.92	7 (26%)
20	CLA	b	602	-	69,73,73	2.26	24 (34%)	82,113,113	2.49	25 (30%)
22	BCR	c	515	-	41,41,41	2.65	6 (14%)	56,56,56	6.82	23 (41%)
26	LHG	A	412	1	36,36,48	1.06	4 (11%)	39,42,54	1.41	5 (12%)
27	F6C	B	613	2	72,74,74	2.61	26 (36%)	83,114,114	3.20	31 (37%)
22	BCR	b	618	-	41,41,41	2.70	6 (14%)	56,56,56	6.72	21 (37%)
24	PL9	D	406	-	45,45,55	1.97	11 (24%)	56,57,69	1.55	10 (17%)
22	BCR	a	408	-	41,41,41	2.67	7 (17%)	56,56,56	6.54	21 (37%)
20	CLA	c	513	3	49,53,73	2.49	19 (38%)	58,89,113	2.74	22 (37%)
20	CLA	A	405	34	54,58,73	2.45	20 (37%)	64,95,113	2.89	28 (43%)
31	HEM	v	201	15	50,50,50	1.41	9 (18%)	67,82,82	1.18	8 (11%)
20	CLA	B	602	-	69,73,73	2.26	23 (33%)	82,113,113	2.49	24 (29%)
20	CLA	B	615	2	64,68,73	2.18	21 (32%)	76,107,113	2.75	27 (35%)
20	CLA	c	507	3	59,63,73	2.48	22 (37%)	70,101,113	2.75	31 (44%)
30	LMG	m	101	-	40,40,55	1.16	4 (10%)	48,48,63	1.29	5 (10%)
20	CLA	C	502	3	64,68,73	2.29	21 (32%)	76,107,113	2.51	22 (28%)
21	PHO	D	402	-	58,69,69	2.09	10 (17%)	55,99,99	1.49	8 (14%)
20	CLA	C	506	3	64,68,73	2.27	20 (31%)	76,107,113	2.62	27 (35%)
28	DGD	c	517	-	34,34,67	1.19	5 (14%)	42,42,81	1.31	3 (7%)
26	LHG	d	407	-	48,48,48	0.90	3 (6%)	51,54,54	1.33	6 (11%)
28	DGD	C	516	-	50,50,67	1.29	9 (18%)	64,64,81	1.47	13 (20%)
31	HEM	V	201	15	50,50,50	1.41	9 (18%)	67,82,82	1.18	8 (11%)
20	CLA	d	403	4	64,68,73	2.26	22 (34%)	76,107,113	2.71	22 (28%)
20	CLA	b	603	-	59,63,73	2.44	23 (38%)	70,101,113	2.66	26 (37%)
20	CLA	C	509	3	64,68,73	2.30	20 (31%)	76,107,113	2.44	30 (39%)
22	BCR	C	515	-	41,41,41	2.65	6 (14%)	56,56,56	6.82	23 (41%)
27	F6C	c	508	34	67,69,74	2.84	29 (43%)	77,108,114	3.23	33 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
20	CLA	B	601	-	49,53,73	2.51	20 (40%)	58,89,113	2.71	22 (37%)
27	F6C	C	508	34	67,69,74	2.83	30 (44%)	77,108,114	3.23	33 (42%)
30	LMG	d	409	-	33,33,55	1.14	2 (6%)	41,41,63	1.24	4 (9%)
20	CLA	b	615	2	64,68,73	2.18	21 (32%)	76,107,113	2.75	27 (35%)
22	BCR	b	617	-	41,41,41	2.68	6 (14%)	56,56,56	6.62	23 (41%)
20	CLA	b	608	2	59,63,73	2.42	20 (33%)	70,101,113	2.59	28 (40%)
23	SQD	l	102	-	52,54,54	0.95	5 (9%)	62,65,65	1.91	13 (20%)
20	CLA	H	101	2	54,58,73	2.44	20 (37%)	64,95,113	2.86	28 (43%)
31	HEM	e	101	5	50,50,50	1.38	7 (14%)	67,82,82	1.15	5 (7%)
20	CLA	b	610	34	69,73,73	2.13	20 (28%)	82,113,113	2.66	30 (36%)
29	CL7	d	401	34	69,73,73	2.29	23 (33%)	80,113,113	2.38	23 (28%)
33	LMT	m	102	-	36,36,36	1.25	7 (19%)	47,47,47	0.99	0
20	CLA	C	512	3	54,58,73	2.43	20 (37%)	64,95,113	2.93	26 (40%)
20	CLA	A	407	1	54,58,73	2.55	23 (42%)	64,95,113	2.75	26 (40%)
27	F6C	b	607	34	67,69,74	2.83	30 (44%)	77,108,114	3.23	34 (44%)
20	CLA	B	603	-	59,63,73	2.44	23 (38%)	70,101,113	2.67	26 (37%)
22	BCR	B	617	-	41,41,41	2.68	6 (14%)	56,56,56	6.62	23 (41%)
20	CLA	C	511	3	69,73,73	2.22	20 (28%)	82,113,113	2.57	25 (30%)
20	CLA	B	609	2	49,53,73	2.54	19 (38%)	58,89,113	2.83	22 (37%)
23	SQD	A	409	-	50,52,54	0.38	1 (2%)	60,63,65	0.40	0
20	CLA	D	404	-	49,53,73	2.52	20 (40%)	58,89,113	2.86	21 (36%)
28	DGD	d	410	-	45,45,67	0.90	2 (4%)	53,53,81	1.21	2 (3%)

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
20	CLA	b	605	2	-	12/39/115/115	-
20	CLA	c	514	3	-	3/15/91/115	-
29	CL7	D	401	34	2/2/15/20	12/39/115/115	-
21	PHO	A	406	-	-	17/37/103/103	0/5/6/6
20	CLA	B	606	-	-	7/27/103/115	-
22	BCR	A	408	-	-	6/29/63/63	0/2/2/2
20	CLA	b	606	-	-	7/27/103/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	CLA	A	404	1	-	10/39/115/115	-
20	CLA	B	605	2	-	12/39/115/115	-
24	PL9	d	406	-	-	13/41/61/73	0/1/1/1
20	CLA	d	404	-	-	7/15/91/115	-
26	LHG	L	101	-	-	24/53/53/53	-
20	CLA	b	611	2	-	12/39/115/115	-
30	LMG	D	409	-	-	7/28/48/70	0/1/1/1
20	CLA	C	510	3	-	10/39/115/115	-
23	SQD	L	102	-	-	21/49/69/69	0/1/1/1
22	BCR	b	616	-	-	12/29/63/63	0/2/2/2
20	CLA	C	503	3	-	14/39/115/115	-
27	F6C	b	613	2	1/1/10/16	20/41/97/97	-
20	CLA	C	505	34	-	5/21/97/115	-
20	CLA	B	612	2	-	14/39/115/115	-
20	CLA	c	503	3	-	14/39/115/115	-
20	CLA	c	511	3	-	15/39/115/115	-
27	F6C	B	607	34	1/1/9/16	19/35/91/97	-
20	CLA	c	509	3	-	7/33/109/115	-
26	LHG	d	408	-	-	22/51/51/53	-
27	F6C	b	604	2	1/1/10/16	17/41/97/97	-
22	BCR	B	616	-	-	12/29/63/63	0/2/2/2
21	PHO	a	406	-	-	17/37/103/103	0/5/6/6
20	CLA	c	504	3	-	18/39/115/115	-
22	BCR	d	405	-	-	7/20/37/63	0/1/1/2
28	DGD	C	517	-	-	12/28/48/95	0/1/1/2
20	CLA	c	505	34	-	5/21/97/115	-
20	CLA	D	403	4	-	7/33/109/115	-
26	LHG	D	408	-	-	22/51/51/53	-
24	PL9	A	410	-	-	5/11/31/73	0/1/1/1
20	CLA	B	610	34	-	16/39/115/115	-
27	F6C	B	604	2	1/1/10/16	17/41/97/97	-
20	CLA	a	404	1	-	10/39/115/115	-
21	PHO	d	402	-	-	6/37/103/103	0/5/6/6
20	CLA	b	609	2	-	8/15/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	HEM	E	101	5	-	6/14/54/54	-
33	LMT	M	102	-	-	7/21/61/61	0/2/2/2
20	CLA	B	614	2	-	9/27/103/115	-
20	CLA	C	513	3	-	9/15/91/115	-
32	RRX	H	102	-	-	20/29/65/65	0/2/2/2
28	DGD	c	516	-	-	16/38/78/95	0/2/2/2
26	LHG	l	101	-	-	24/53/53/53	-
20	CLA	C	514	3	-	3/15/91/115	-
26	LHG	D	407	-	-	28/53/53/53	-
20	CLA	b	601	-	-	11/15/91/115	-
28	DGD	D	410	-	-	12/39/59/95	0/1/1/2
20	CLA	C	504	3	-	18/39/115/115	-
22	BCR	B	618	-	-	11/29/63/63	0/2/2/2
20	CLA	B	611	2	-	12/39/115/115	-
20	CLA	b	612	2	-	14/39/115/115	-
20	CLA	c	512	3	-	9/21/97/115	-
20	CLA	a	405	34	-	5/21/97/115	-
20	CLA	h	101	2	-	6/21/97/115	-
20	CLA	c	502	3	-	10/33/109/115	-
22	BCR	D	405	-	-	7/20/37/63	0/1/1/2
20	CLA	c	506	3	-	17/33/109/115	-
26	LHG	a	412	1	-	26/41/41/53	-
30	LMG	M	101	-	-	11/35/55/70	0/1/1/1
23	SQD	a	409	-	-	26/47/67/69	0/1/1/1
20	CLA	C	507	3	-	11/27/103/115	-
20	CLA	B	608	2	-	9/27/103/115	-
20	CLA	c	510	3	-	10/39/115/115	-
20	CLA	b	614	2	-	8/27/103/115	-
22	BCR	c	518	-	-	6/13/30/63	0/1/1/2
32	RRX	h	102	-	-	20/29/65/65	0/2/2/2
22	BCR	C	518	-	-	6/13/30/63	0/1/1/2
20	CLA	a	407	1	-	6/21/97/115	-
27	F6C	B	613	2	1/1/10/16	20/41/97/97	-
20	CLA	b	602	-	-	15/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	BCR	c	515	-	-	5/29/63/63	0/2/2/2
24	PL9	a	410	-	-	5/11/31/73	0/1/1/1
26	LHG	A	412	1	-	26/41/41/53	-
22	BCR	b	618	-	-	11/29/63/63	0/2/2/2
24	PL9	D	406	-	-	13/41/61/73	0/1/1/1
22	BCR	a	408	-	-	6/29/63/63	0/2/2/2
20	CLA	c	513	3	-	9/15/91/115	-
20	CLA	A	405	34	-	5/21/97/115	-
31	HEM	v	201	15	-	6/14/54/54	-
20	CLA	B	602	-	-	15/39/115/115	-
20	CLA	B	615	2	-	13/33/109/115	-
20	CLA	c	507	3	-	11/27/103/115	-
30	LMG	m	101	-	-	11/35/55/70	0/1/1/1
20	CLA	C	502	3	-	10/33/109/115	-
21	PHO	D	402	-	-	6/37/103/103	0/5/6/6
20	CLA	C	506	3	-	17/33/109/115	-
28	DGD	c	517	-	-	12/28/48/95	0/1/1/2
26	LHG	d	407	-	-	28/53/53/53	-
28	DGD	C	516	-	-	16/38/78/95	0/2/2/2
31	HEM	V	201	15	-	6/14/54/54	-
20	CLA	d	403	4	-	7/33/109/115	-
20	CLA	b	603	-	-	9/27/103/115	-
27	F6C	c	508	34	1/1/9/16	22/35/91/97	-
20	CLA	C	509	3	-	7/33/109/115	-
22	BCR	C	515	-	-	6/29/63/63	0/2/2/2
20	CLA	B	601	-	-	11/15/91/115	-
27	F6C	C	508	34	1/1/9/16	21/35/91/97	-
30	LMG	d	409	-	-	7/28/48/70	0/1/1/1
20	CLA	b	615	2	-	12/33/109/115	-
22	BCR	b	617	-	-	5/29/63/63	0/2/2/2
20	CLA	b	608	2	-	9/27/103/115	-
23	SQD	l	102	-	-	21/49/69/69	0/1/1/1
20	CLA	H	101	2	-	6/21/97/115	-
31	HEM	e	101	5	-	6/14/54/54	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	CLA	b	610	34	-	16/39/115/115	-
29	CL7	d	401	34	2/2/15/20	12/39/115/115	-
33	LMT	m	102	-	-	7/21/61/61	0/2/2/2
20	CLA	C	512	3	-	9/21/97/115	-
20	CLA	A	407	1	-	6/21/97/115	-
27	F6C	b	607	34	1/1/9/16	19/35/91/97	-
20	CLA	B	603	-	-	9/27/103/115	-
22	BCR	B	617	-	-	5/29/63/63	0/2/2/2
20	CLA	C	511	3	-	15/39/115/115	-
20	CLA	B	609	2	-	8/15/91/115	-
23	SQD	A	409	-	-	26/47/67/69	0/1/1/1
20	CLA	D	404	-	-	7/15/91/115	-
28	DGD	d	410	-	-	12/39/59/95	0/1/1/2

All (1819) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	613	F6C	C1A-CHA	9.72	1.51	1.35
27	b	613	F6C	C1A-CHA	9.72	1.51	1.35
27	B	604	F6C	MG-NA	9.21	2.24	2.05
27	b	604	F6C	MG-NA	9.21	2.24	2.05
21	a	406	PHO	C3B-C4B	9.19	1.50	1.41
27	c	508	F6C	MG-NA	9.19	2.24	2.05
27	B	607	F6C	MG-NA	9.18	2.24	2.05
27	C	508	F6C	MG-NA	9.17	2.24	2.05
27	b	607	F6C	MG-NA	9.17	2.24	2.05
21	A	406	PHO	C3B-C4B	9.15	1.50	1.41
27	B	604	F6C	C1A-CHA	9.09	1.50	1.35
27	b	604	F6C	C1A-CHA	9.07	1.50	1.35
21	D	402	PHO	C3B-C4B	8.99	1.50	1.41
21	d	402	PHO	C3B-C4B	8.98	1.50	1.41
27	b	613	F6C	MG-NA	8.91	2.23	2.05
27	B	613	F6C	MG-NA	8.89	2.23	2.05
27	c	508	F6C	C1A-CHA	8.88	1.49	1.35
27	C	508	F6C	C1A-CHA	8.84	1.49	1.35
27	b	607	F6C	C1A-CHA	8.82	1.49	1.35
27	B	607	F6C	C1A-CHA	8.82	1.49	1.35
21	d	402	PHO	C1B-C2B	8.73	1.49	1.39
21	D	402	PHO	C1B-C2B	8.70	1.49	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	618	BCR	C8-C9	-8.60	1.27	1.46
22	B	618	BCR	C8-C9	-8.59	1.27	1.46
22	b	617	BCR	C8-C9	-8.31	1.28	1.46
22	B	617	BCR	C8-C9	-8.29	1.28	1.46
29	D	401	CL7	MG-NA	8.23	2.22	2.05
29	d	401	CL7	MG-NA	8.23	2.22	2.05
22	B	618	BCR	C11-C10	-8.21	1.17	1.43
22	A	408	BCR	C8-C9	-8.21	1.28	1.46
22	a	408	BCR	C8-C9	-8.20	1.28	1.46
22	b	618	BCR	C11-C10	-8.20	1.17	1.43
22	C	515	BCR	C11-C10	-8.09	1.18	1.43
22	c	515	BCR	C11-C10	-8.09	1.18	1.43
22	c	515	BCR	C8-C9	-8.08	1.28	1.46
22	C	515	BCR	C8-C9	-8.07	1.28	1.46
21	A	406	PHO	C1B-C2B	8.04	1.48	1.39
22	A	408	BCR	C11-C10	-8.03	1.18	1.43
22	a	408	BCR	C11-C10	-8.03	1.18	1.43
22	B	617	BCR	C11-C10	-8.02	1.18	1.43
22	b	617	BCR	C11-C10	-8.02	1.18	1.43
22	d	405	BCR	C11-C10	-8.00	1.18	1.43
22	D	405	BCR	C11-C10	-8.00	1.18	1.43
21	a	406	PHO	C1B-C2B	7.99	1.48	1.39
22	b	616	BCR	C8-C9	-7.97	1.28	1.46
22	B	616	BCR	C8-C9	-7.97	1.28	1.46
22	b	616	BCR	C11-C10	-7.83	1.18	1.43
22	B	616	BCR	C11-C10	-7.82	1.18	1.43
22	D	405	BCR	C8-C9	-7.80	1.29	1.46
22	C	518	BCR	C15-C14	-7.80	1.20	1.49
22	d	405	BCR	C8-C9	-7.78	1.29	1.46
22	c	518	BCR	C15-C14	-7.78	1.20	1.49
24	A	410	PL9	C7-C3	-7.74	1.41	1.51
24	a	410	PL9	C7-C3	-7.74	1.41	1.51
20	b	608	CLA	MG-NA	7.61	2.24	2.06
27	C	508	F6C	C2A-C3A	7.61	1.53	1.36
20	B	608	CLA	MG-NA	7.59	2.24	2.06
27	c	508	F6C	C2A-C3A	7.59	1.53	1.36
27	B	607	F6C	C2A-C3A	7.58	1.53	1.36
27	b	607	F6C	C2A-C3A	7.58	1.53	1.36
22	B	617	BCR	C16-C17	-7.58	1.19	1.43
22	b	617	BCR	C16-C17	-7.58	1.19	1.43
20	B	601	CLA	MG-NA	7.53	2.24	2.06
20	b	601	CLA	MG-NA	7.53	2.24	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	617	BCR	C20-C21	-7.51	1.19	1.43
22	b	617	BCR	C20-C21	-7.50	1.19	1.43
20	B	603	CLA	MG-NA	7.50	2.24	2.06
22	A	408	BCR	C20-C21	-7.50	1.19	1.43
20	b	603	CLA	MG-NA	7.49	2.24	2.06
22	a	408	BCR	C20-C21	-7.48	1.20	1.43
20	b	602	CLA	MG-NA	7.47	2.24	2.06
20	C	504	CLA	MG-NA	7.46	2.24	2.06
20	B	602	CLA	MG-NA	7.46	2.24	2.06
20	A	404	CLA	MG-NA	7.46	2.24	2.06
20	c	504	CLA	MG-NA	7.45	2.24	2.06
20	A	407	CLA	MG-NA	7.45	2.24	2.06
20	B	606	CLA	MG-NA	7.45	2.24	2.06
20	a	407	CLA	MG-NA	7.45	2.24	2.06
20	a	404	CLA	MG-NA	7.45	2.24	2.06
20	b	606	CLA	MG-NA	7.44	2.24	2.06
22	c	518	BCR	C11-C10	-7.42	1.20	1.43
22	c	515	BCR	C20-C21	-7.41	1.20	1.43
22	C	515	BCR	C20-C21	-7.40	1.20	1.43
22	C	518	BCR	C11-C10	-7.40	1.20	1.43
22	B	618	BCR	C20-C21	-7.39	1.20	1.43
22	b	618	BCR	C20-C21	-7.39	1.20	1.43
22	C	515	BCR	C16-C17	-7.37	1.20	1.43
22	c	515	BCR	C16-C17	-7.37	1.20	1.43
22	A	408	BCR	C16-C17	-7.36	1.20	1.43
22	a	408	BCR	C16-C17	-7.36	1.20	1.43
22	b	616	BCR	C20-C21	-7.33	1.20	1.43
22	B	616	BCR	C20-C21	-7.31	1.20	1.43
22	b	618	BCR	C16-C17	-7.29	1.20	1.43
20	C	510	CLA	MG-NA	7.29	2.23	2.06
22	B	618	BCR	C16-C17	-7.28	1.20	1.43
20	c	510	CLA	MG-NA	7.28	2.23	2.06
27	B	604	F6C	C2A-C3A	7.26	1.52	1.36
27	b	604	F6C	C2A-C3A	7.26	1.52	1.36
22	d	405	BCR	C16-C17	-7.24	1.20	1.43
22	D	405	BCR	C16-C17	-7.24	1.20	1.43
20	C	513	CLA	MG-NA	7.23	2.23	2.06
20	c	513	CLA	MG-NA	7.23	2.23	2.06
20	d	404	CLA	MG-NA	7.23	2.23	2.06
20	B	609	CLA	MG-NA	7.23	2.23	2.06
20	b	609	CLA	MG-NA	7.21	2.23	2.06
22	b	616	BCR	C16-C17	-7.21	1.20	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	C	514	CLA	MG-NA	7.21	2.23	2.06
20	D	404	CLA	MG-NA	7.21	2.23	2.06
22	B	616	BCR	C16-C17	-7.20	1.20	1.43
20	b	605	CLA	MG-NA	7.20	2.23	2.06
20	B	605	CLA	MG-NA	7.19	2.23	2.06
20	c	505	CLA	MG-NA	7.18	2.23	2.06
20	c	514	CLA	MG-NA	7.18	2.23	2.06
20	C	505	CLA	MG-NA	7.17	2.23	2.06
20	C	503	CLA	MG-NA	7.15	2.23	2.06
20	A	405	CLA	MG-NA	7.13	2.23	2.06
20	c	503	CLA	MG-NA	7.12	2.23	2.06
20	a	405	CLA	MG-NA	7.11	2.23	2.06
20	C	511	CLA	MG-NA	7.03	2.23	2.06
20	c	511	CLA	MG-NA	7.01	2.22	2.06
20	h	101	CLA	MG-NA	6.97	2.22	2.06
20	b	614	CLA	MG-NA	6.96	2.22	2.06
20	B	614	CLA	MG-NA	6.96	2.22	2.06
20	H	101	CLA	MG-NA	6.95	2.22	2.06
20	b	612	CLA	MG-NA	6.91	2.22	2.06
20	B	612	CLA	MG-NA	6.90	2.22	2.06
20	B	615	CLA	MG-NA	6.82	2.22	2.06
20	b	615	CLA	MG-NA	6.81	2.22	2.06
20	c	512	CLA	MG-NA	6.81	2.22	2.06
20	C	512	CLA	MG-NA	6.80	2.22	2.06
20	C	507	CLA	MG-NA	6.78	2.22	2.06
20	c	507	CLA	MG-NA	6.78	2.22	2.06
20	B	610	CLA	MG-NA	6.77	2.22	2.06
20	b	610	CLA	MG-NA	6.77	2.22	2.06
20	c	502	CLA	MG-NA	6.76	2.22	2.06
20	C	502	CLA	MG-NA	6.74	2.22	2.06
20	C	506	CLA	MG-NA	6.66	2.22	2.06
20	c	506	CLA	MG-NA	6.64	2.22	2.06
20	B	611	CLA	MG-NA	6.64	2.22	2.06
20	b	611	CLA	MG-NA	6.63	2.22	2.06
20	c	509	CLA	MG-NA	6.56	2.21	2.06
20	C	509	CLA	MG-NA	6.54	2.21	2.06
20	d	403	CLA	MG-NA	6.40	2.21	2.06
20	D	403	CLA	MG-NA	6.39	2.21	2.06
27	B	613	F6C	C2A-C3A	6.15	1.50	1.36
27	b	613	F6C	C2A-C3A	6.15	1.50	1.36
24	D	406	PL9	C6-C1	-6.09	1.38	1.48
24	d	406	PL9	C6-C1	-6.08	1.38	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	613	F6C	C4A-NA	-5.57	1.30	1.37
27	b	613	F6C	C4A-NA	-5.57	1.30	1.37
29	d	401	CL7	O2A-C1	5.49	1.60	1.46
29	D	401	CL7	O2A-C1	5.46	1.60	1.46
20	c	507	CLA	O2A-C1	5.42	1.60	1.46
27	B	604	F6C	C4A-NA	-5.41	1.30	1.37
27	b	604	F6C	C4A-NA	-5.41	1.30	1.37
20	C	507	CLA	O2A-C1	5.40	1.60	1.46
20	C	507	CLA	C3C-C2C	5.38	1.48	1.36
20	c	507	CLA	C3C-C2C	5.38	1.48	1.36
20	C	512	CLA	O2A-C1	5.37	1.60	1.46
20	c	512	CLA	O2A-C1	5.37	1.60	1.46
20	a	407	CLA	O2A-C1	5.35	1.60	1.46
20	A	407	CLA	O2A-C1	5.34	1.60	1.46
27	C	508	F6C	O2A-C1	5.34	1.60	1.46
27	c	508	F6C	O2A-C1	5.34	1.60	1.46
20	B	615	CLA	O2A-C1	5.33	1.60	1.46
20	B	606	CLA	O2A-C1	5.33	1.60	1.46
24	d	406	PL9	C7-C3	-5.33	1.44	1.51
20	b	615	CLA	O2A-C1	5.32	1.60	1.46
20	b	606	CLA	O2A-C1	5.32	1.60	1.46
27	B	607	F6C	O2A-C1	5.31	1.60	1.46
27	b	607	F6C	O2A-C1	5.31	1.60	1.46
20	c	510	CLA	O2A-C1	5.31	1.60	1.46
20	C	510	CLA	O2A-C1	5.31	1.60	1.46
20	h	101	CLA	O2A-C1	5.29	1.60	1.46
20	H	101	CLA	O2A-C1	5.29	1.60	1.46
24	D	406	PL9	C7-C3	-5.29	1.44	1.51
20	B	603	CLA	O2A-C1	5.29	1.60	1.46
20	b	603	CLA	O2A-C1	5.29	1.60	1.46
20	c	502	CLA	O2A-C1	5.29	1.60	1.46
20	A	404	CLA	O2A-C1	5.28	1.60	1.46
20	b	602	CLA	O2A-C1	5.28	1.60	1.46
20	B	614	CLA	O2A-C1	5.27	1.60	1.46
20	D	403	CLA	O2A-C1	5.27	1.60	1.46
20	B	602	CLA	O2A-C1	5.27	1.60	1.46
20	b	614	CLA	O2A-C1	5.27	1.60	1.46
20	C	502	CLA	O2A-C1	5.26	1.60	1.46
20	a	404	CLA	O2A-C1	5.26	1.60	1.46
20	d	403	CLA	O2A-C1	5.24	1.60	1.46
20	a	405	CLA	O2A-C1	5.21	1.60	1.46
20	A	405	CLA	O2A-C1	5.20	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	C	503	CLA	O2A-C1	5.20	1.60	1.46
20	a	404	CLA	O2D-CGD	5.20	1.46	1.33
20	B	605	CLA	O2A-C1	5.19	1.60	1.46
20	b	605	CLA	O2A-C1	5.19	1.60	1.46
20	c	503	CLA	O2A-C1	5.19	1.60	1.46
20	C	507	CLA	C3D-C4D	-5.17	1.32	1.44
20	A	404	CLA	O2D-CGD	5.17	1.45	1.33
20	c	507	CLA	C3D-C4D	-5.16	1.32	1.44
20	b	608	CLA	O2A-C1	5.16	1.60	1.46
20	B	608	CLA	O2A-C1	5.15	1.60	1.46
20	d	403	CLA	C3D-C4D	-5.14	1.32	1.44
20	B	602	CLA	O2D-CGD	5.14	1.45	1.33
20	D	403	CLA	C3D-C4D	-5.14	1.32	1.44
20	a	407	CLA	O2D-CGD	5.14	1.45	1.33
20	c	511	CLA	O2A-C1	5.13	1.59	1.46
27	c	508	F6C	O2D-CGD	5.13	1.45	1.33
20	b	602	CLA	O2D-CGD	5.13	1.45	1.33
20	C	511	CLA	O2A-C1	5.12	1.59	1.46
27	C	508	F6C	O2D-CGD	5.12	1.45	1.33
20	b	606	CLA	O2D-CGD	5.11	1.45	1.33
20	A	407	CLA	O2D-CGD	5.10	1.45	1.33
20	B	606	CLA	O2D-CGD	5.09	1.45	1.33
27	B	607	F6C	O2D-CGD	5.09	1.45	1.33
20	C	503	CLA	O2D-CGD	5.09	1.45	1.33
27	b	607	F6C	O2D-CGD	5.09	1.45	1.33
20	c	503	CLA	O2D-CGD	5.08	1.45	1.33
20	b	603	CLA	O2D-CGD	5.05	1.45	1.33
20	B	603	CLA	O2D-CGD	5.05	1.45	1.33
20	a	405	CLA	C3D-C4D	-5.05	1.32	1.44
20	b	611	CLA	O2A-C1	5.05	1.59	1.46
20	A	405	CLA	C3D-C4D	-5.04	1.32	1.44
20	B	611	CLA	O2A-C1	5.04	1.59	1.46
20	C	504	CLA	O2A-C1	5.04	1.59	1.46
20	C	506	CLA	O2A-C1	5.03	1.59	1.46
20	c	506	CLA	O2A-C1	5.02	1.59	1.46
20	c	504	CLA	O2A-C1	5.02	1.59	1.46
20	C	509	CLA	O2A-C1	5.02	1.59	1.46
20	C	505	CLA	O2A-C1	5.01	1.59	1.46
20	c	505	CLA	O2A-C1	5.01	1.59	1.46
24	A	410	PL9	C3-C4	-5.01	1.41	1.49
20	C	510	CLA	C3D-C4D	-5.00	1.32	1.44
20	c	510	CLA	C3D-C4D	-5.00	1.32	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	c	509	CLA	O2A-C1	4.99	1.59	1.46
24	a	410	PL9	C3-C4	-4.99	1.41	1.49
20	B	610	CLA	O2A-C1	4.98	1.59	1.46
20	a	404	CLA	CHC-C1C	4.98	1.48	1.38
20	c	503	CLA	C3D-C4D	-4.98	1.33	1.44
20	b	610	CLA	O2A-C1	4.98	1.59	1.46
20	B	603	CLA	CHC-C1C	4.96	1.48	1.38
20	H	101	CLA	C3D-C4D	-4.96	1.33	1.44
20	C	511	CLA	C3D-C4D	-4.95	1.33	1.44
20	b	603	CLA	CHC-C1C	4.95	1.48	1.38
20	c	511	CLA	C3D-C4D	-4.95	1.33	1.44
20	A	404	CLA	CHC-C1C	4.94	1.48	1.38
20	C	503	CLA	C3D-C4D	-4.94	1.33	1.44
20	c	509	CLA	C1D-ND	-4.93	1.31	1.37
20	B	601	CLA	O2D-CGD	4.93	1.45	1.33
20	h	101	CLA	C3D-C4D	-4.92	1.33	1.44
20	b	611	CLA	C3D-C4D	-4.92	1.33	1.44
20	b	605	CLA	C3D-C4D	-4.92	1.33	1.44
20	B	605	CLA	C3D-C4D	-4.91	1.33	1.44
20	A	407	CLA	CHC-C1C	4.91	1.48	1.38
20	a	407	CLA	CHC-C1C	4.91	1.48	1.38
20	B	611	CLA	C3D-C4D	-4.91	1.33	1.44
20	B	612	CLA	O2A-C1	4.91	1.59	1.46
20	b	614	CLA	C3D-C4D	-4.91	1.33	1.44
20	b	601	CLA	O2D-CGD	4.90	1.45	1.33
20	B	606	CLA	CHC-C1C	4.90	1.48	1.38
20	b	612	CLA	O2A-C1	4.90	1.59	1.46
20	c	509	CLA	C3D-C4D	-4.90	1.33	1.44
20	C	509	CLA	C3D-C4D	-4.90	1.33	1.44
20	C	509	CLA	C1D-ND	-4.90	1.31	1.37
20	B	614	CLA	C3D-C4D	-4.89	1.33	1.44
27	c	508	F6C	CHC-C4B	4.88	1.48	1.38
20	b	606	CLA	CHC-C1C	4.87	1.48	1.38
27	C	508	F6C	CHC-C4B	4.87	1.48	1.38
20	B	602	CLA	CHC-C1C	4.87	1.48	1.38
20	b	602	CLA	CHC-C1C	4.85	1.48	1.38
20	H	101	CLA	O2D-CGD	4.85	1.45	1.33
20	c	514	CLA	O2D-CGD	4.85	1.45	1.33
20	h	101	CLA	O2D-CGD	4.84	1.45	1.33
20	B	609	CLA	C3D-C4D	-4.84	1.33	1.44
20	b	609	CLA	C3D-C4D	-4.84	1.33	1.44
27	B	607	F6C	CHC-C4B	4.84	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	C	514	CLA	CHC-C1C	4.84	1.48	1.38
20	c	514	CLA	CHC-C1C	4.84	1.48	1.38
20	B	615	CLA	C3D-C4D	-4.83	1.33	1.44
22	b	618	BCR	C10-C9	-4.83	1.24	1.35
20	C	506	CLA	C1D-ND	-4.83	1.31	1.37
20	C	507	CLA	O2D-CGD	4.83	1.45	1.33
27	B	604	F6C	O2A-C1	4.83	1.59	1.46
27	b	607	F6C	CHC-C4B	4.82	1.48	1.38
20	c	507	CLA	O2D-CGD	4.82	1.45	1.33
20	C	514	CLA	O2D-CGD	4.82	1.45	1.33
22	B	618	BCR	C10-C9	-4.82	1.24	1.35
20	b	615	CLA	C3D-C4D	-4.81	1.33	1.44
27	b	604	F6C	O2A-C1	4.81	1.59	1.46
20	C	502	CLA	O2D-CGD	4.81	1.45	1.33
20	c	506	CLA	C1D-ND	-4.80	1.31	1.37
20	D	404	CLA	C3D-C4D	-4.80	1.33	1.44
20	d	404	CLA	C3D-C4D	-4.80	1.33	1.44
20	c	512	CLA	C3D-C4D	-4.79	1.33	1.44
20	c	502	CLA	O2D-CGD	4.78	1.45	1.33
20	B	609	CLA	O2D-CGD	4.78	1.45	1.33
20	b	612	CLA	C1D-ND	-4.78	1.31	1.37
20	B	608	CLA	O2D-CGD	4.78	1.45	1.33
20	b	609	CLA	O2D-CGD	4.78	1.45	1.33
20	b	608	CLA	O2D-CGD	4.78	1.45	1.33
20	C	505	CLA	O2D-CGD	4.77	1.45	1.33
20	c	505	CLA	O2D-CGD	4.77	1.45	1.33
27	B	613	F6C	O2A-C1	4.76	1.59	1.46
24	a	410	PL9	C7-C8	-4.76	1.43	1.50
20	C	512	CLA	C3D-C4D	-4.75	1.33	1.44
20	B	605	CLA	O2D-CGD	4.75	1.44	1.33
20	b	605	CLA	O2D-CGD	4.75	1.44	1.33
20	b	611	CLA	C1D-ND	-4.75	1.31	1.37
27	b	613	F6C	O2A-C1	4.75	1.58	1.46
24	A	410	PL9	C7-C8	-4.75	1.43	1.50
20	D	403	CLA	C1D-ND	-4.74	1.31	1.37
20	B	612	CLA	C1D-ND	-4.74	1.31	1.37
20	C	509	CLA	O2D-CGD	4.74	1.44	1.33
20	d	403	CLA	C1D-ND	-4.74	1.31	1.37
20	c	509	CLA	O2D-CGD	4.73	1.44	1.33
29	d	401	CL7	CHD-C4C	4.73	1.47	1.38
20	b	612	CLA	O2D-CGD	4.73	1.44	1.33
20	B	611	CLA	C1D-ND	-4.72	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	B	612	CLA	CHC-C1C	4.71	1.47	1.38
20	c	511	CLA	O2D-CGD	4.71	1.44	1.33
20	C	506	CLA	C3D-C4D	-4.71	1.33	1.44
20	C	511	CLA	O2D-CGD	4.71	1.44	1.33
20	C	504	CLA	CHC-C1C	4.70	1.47	1.38
20	c	504	CLA	CHC-C1C	4.70	1.47	1.38
20	B	612	CLA	O2D-CGD	4.70	1.44	1.33
29	D	401	CL7	CHD-C4C	4.70	1.47	1.38
24	D	406	PL9	C3-C4	-4.69	1.42	1.49
20	c	506	CLA	C3D-C4D	-4.69	1.33	1.44
20	D	403	CLA	CHC-C1C	4.68	1.47	1.38
20	b	612	CLA	CHC-C1C	4.67	1.47	1.38
20	d	403	CLA	CHC-C1C	4.67	1.47	1.38
20	a	405	CLA	O2D-CGD	4.66	1.44	1.33
20	b	610	CLA	C3D-C4D	-4.66	1.33	1.44
24	d	406	PL9	C3-C4	-4.66	1.42	1.49
20	A	405	CLA	O2D-CGD	4.66	1.44	1.33
20	B	610	CLA	C3D-C4D	-4.65	1.33	1.44
20	c	513	CLA	C3D-C4D	-4.65	1.33	1.44
20	C	513	CLA	C3D-C4D	-4.63	1.33	1.44
20	C	506	CLA	O2D-CGD	4.62	1.44	1.33
20	c	506	CLA	O2D-CGD	4.62	1.44	1.33
20	b	615	CLA	O2D-CGD	4.61	1.44	1.33
20	B	615	CLA	O2D-CGD	4.60	1.44	1.33
20	c	504	CLA	O2D-CGD	4.59	1.44	1.33
20	b	610	CLA	O2D-CGD	4.58	1.44	1.33
20	b	602	CLA	C3C-C2C	4.58	1.46	1.36
20	A	407	CLA	CHD-C1D	4.58	1.47	1.38
20	B	602	CLA	C3C-C2C	4.58	1.46	1.36
20	C	510	CLA	O2D-CGD	4.57	1.44	1.33
20	B	610	CLA	O2D-CGD	4.57	1.44	1.33
20	C	504	CLA	O2D-CGD	4.57	1.44	1.33
20	c	510	CLA	O2D-CGD	4.57	1.44	1.33
20	c	512	CLA	O2D-CGD	4.57	1.44	1.33
20	C	512	CLA	O2D-CGD	4.56	1.44	1.33
20	B	606	CLA	CHD-C1D	4.56	1.47	1.38
20	a	404	CLA	C3C-C2C	4.56	1.46	1.36
20	b	606	CLA	CHD-C1D	4.56	1.47	1.38
20	B	603	CLA	C3C-C2C	4.55	1.46	1.36
20	a	407	CLA	CHD-C1D	4.55	1.47	1.38
20	C	514	CLA	C3D-C4D	-4.55	1.34	1.44
20	c	514	CLA	C3D-C4D	-4.55	1.34	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	A	404	CLA	CHD-C1D	4.55	1.47	1.38
20	b	602	CLA	CHD-C1D	4.54	1.47	1.38
20	A	404	CLA	C3C-C2C	4.54	1.46	1.36
22	A	408	BCR	C10-C9	-4.54	1.25	1.35
22	a	408	BCR	C10-C9	-4.54	1.25	1.35
20	c	511	CLA	CHC-C1C	4.53	1.47	1.38
20	b	603	CLA	C3C-C2C	4.53	1.46	1.36
20	B	602	CLA	CHD-C1D	4.53	1.47	1.38
20	a	404	CLA	CHD-C1D	4.53	1.47	1.38
20	C	511	CLA	CHC-C1C	4.53	1.47	1.38
20	C	510	CLA	CHC-C1C	4.53	1.47	1.38
20	c	510	CLA	CHC-C1C	4.52	1.47	1.38
20	B	612	CLA	C3D-C4D	-4.52	1.34	1.44
20	b	612	CLA	C3D-C4D	-4.52	1.34	1.44
20	B	603	CLA	CHD-C1D	4.51	1.47	1.38
20	b	609	CLA	MG-ND	-4.51	1.96	2.05
20	B	601	CLA	CHC-C1C	4.51	1.47	1.38
29	D	401	CL7	C1C-NC	-4.51	1.31	1.37
20	C	504	CLA	C3C-C2C	4.51	1.46	1.36
20	c	504	CLA	C3C-C2C	4.50	1.46	1.36
20	b	614	CLA	CHC-C1C	4.50	1.47	1.38
20	a	407	CLA	C3C-C2C	4.50	1.46	1.36
20	A	407	CLA	C3C-C2C	4.49	1.46	1.36
20	b	603	CLA	CHD-C1D	4.49	1.47	1.38
20	b	601	CLA	CHC-C1C	4.49	1.47	1.38
20	b	606	CLA	C3C-C2C	4.49	1.46	1.36
20	B	611	CLA	O2D-CGD	4.48	1.44	1.33
20	b	614	CLA	O2D-CGD	4.48	1.44	1.33
20	B	614	CLA	CHC-C1C	4.48	1.47	1.38
20	B	609	CLA	MG-ND	-4.47	1.96	2.05
20	B	606	CLA	C3C-C2C	4.47	1.46	1.36
20	B	614	CLA	O2D-CGD	4.46	1.44	1.33
20	b	611	CLA	O2D-CGD	4.45	1.44	1.33
29	d	401	CL7	C1C-NC	-4.44	1.32	1.37
20	C	504	CLA	C3D-C4D	-4.44	1.34	1.44
22	B	617	BCR	C10-C9	-4.44	1.25	1.35
20	c	504	CLA	C3D-C4D	-4.44	1.34	1.44
20	D	404	CLA	CHC-C1C	4.44	1.47	1.38
20	B	608	CLA	C1B-NB	-4.43	1.32	1.37
20	C	505	CLA	CHC-C1C	4.43	1.47	1.38
20	c	505	CLA	CHC-C1C	4.43	1.47	1.38
22	b	617	BCR	C10-C9	-4.43	1.25	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	C	507	CLA	CHD-C1D	4.43	1.47	1.38
20	b	608	CLA	C1B-NB	-4.43	1.32	1.37
27	B	607	F6C	CHD-C1D	4.42	1.47	1.38
20	c	505	CLA	C3D-C4D	-4.42	1.34	1.44
27	b	607	F6C	CHD-C1D	4.41	1.47	1.38
20	C	505	CLA	C3D-C4D	-4.41	1.34	1.44
27	C	508	F6C	CHD-C1D	4.41	1.47	1.38
20	d	404	CLA	CHC-C1C	4.41	1.47	1.38
27	c	508	F6C	CHD-C1D	4.40	1.47	1.38
20	c	507	CLA	CHD-C1D	4.40	1.47	1.38
29	d	401	CL7	C3C-C2C	4.39	1.46	1.36
20	C	513	CLA	CHC-C1C	4.39	1.47	1.38
20	c	514	CLA	CHD-C1D	4.39	1.47	1.38
20	c	513	CLA	CHC-C1C	4.39	1.47	1.38
29	D	401	CL7	C3C-C2C	4.38	1.46	1.36
22	c	515	BCR	C10-C9	-4.38	1.25	1.35
20	B	601	CLA	C3C-C2C	4.38	1.46	1.36
20	C	514	CLA	CHD-C1D	4.38	1.47	1.38
20	B	608	CLA	C1D-ND	-4.37	1.32	1.37
20	c	511	CLA	C3C-C2C	4.37	1.46	1.36
20	C	509	CLA	C1B-NB	-4.37	1.32	1.37
20	b	601	CLA	C3C-C2C	4.37	1.46	1.36
20	C	511	CLA	C3C-C2C	4.37	1.46	1.36
22	C	515	BCR	C10-C9	-4.36	1.25	1.35
20	d	404	CLA	O2D-CGD	4.36	1.43	1.33
20	b	608	CLA	C1D-ND	-4.35	1.32	1.37
20	a	404	CLA	C3D-C4D	-4.35	1.34	1.44
20	c	509	CLA	C1B-NB	-4.35	1.32	1.37
27	b	604	F6C	O2D-CGD	4.35	1.43	1.33
20	c	513	CLA	CHD-C1D	4.34	1.46	1.38
20	C	513	CLA	C3C-C2C	4.34	1.46	1.36
20	D	404	CLA	O2D-CGD	4.34	1.43	1.33
20	b	608	CLA	C3D-C4D	-4.33	1.34	1.44
27	B	604	F6C	O2D-CGD	4.33	1.43	1.33
20	B	608	CLA	C3D-C4D	-4.33	1.34	1.44
20	B	603	CLA	C3D-C4D	-4.33	1.34	1.44
20	A	404	CLA	C3D-C4D	-4.32	1.34	1.44
20	h	101	CLA	CHC-C1C	4.32	1.47	1.38
20	C	513	CLA	CHD-C1D	4.32	1.46	1.38
20	c	502	CLA	C3C-C2C	4.32	1.46	1.36
20	c	513	CLA	C3C-C2C	4.32	1.46	1.36
20	C	502	CLA	C3D-C4D	-4.31	1.34	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	c	511	CLA	CHD-C1D	4.31	1.46	1.38
20	D	403	CLA	C3C-C2C	4.31	1.46	1.36
20	C	502	CLA	C3C-C2C	4.31	1.46	1.36
20	C	509	CLA	MG-ND	-4.31	1.97	2.05
27	B	604	F6C	C3D-C4D	-4.31	1.32	1.44
20	c	502	CLA	C3D-C4D	-4.31	1.34	1.44
20	a	407	CLA	C3D-C4D	-4.31	1.34	1.44
20	b	606	CLA	C3D-C4D	-4.30	1.34	1.44
20	c	509	CLA	MG-ND	-4.30	1.97	2.05
20	b	603	CLA	C3D-C4D	-4.30	1.34	1.44
24	a	410	PL9	C53-C6	-4.30	1.42	1.50
27	b	604	F6C	C3D-C4D	-4.30	1.32	1.44
29	d	401	CL7	O2D-CGD	4.30	1.43	1.33
20	D	404	CLA	C3C-C2C	4.30	1.46	1.36
20	C	513	CLA	O2D-CGD	4.29	1.43	1.33
20	A	407	CLA	C3D-C4D	-4.29	1.34	1.44
20	d	403	CLA	C3C-C2C	4.29	1.46	1.36
20	C	511	CLA	CHD-C1D	4.29	1.46	1.38
20	c	504	CLA	CHD-C1D	4.29	1.46	1.38
20	c	510	CLA	C3C-C2C	4.29	1.46	1.36
20	H	101	CLA	CHC-C1C	4.29	1.47	1.38
20	B	606	CLA	C3D-C4D	-4.28	1.34	1.44
27	b	604	F6C	CHC-C4B	4.28	1.47	1.38
20	d	404	CLA	C3C-C2C	4.28	1.46	1.36
20	C	504	CLA	CHD-C1D	4.28	1.46	1.38
20	C	510	CLA	C3C-C2C	4.28	1.46	1.36
20	b	601	CLA	C3D-C4D	-4.28	1.34	1.44
24	A	410	PL9	C53-C6	-4.28	1.42	1.50
20	c	513	CLA	O2D-CGD	4.28	1.43	1.33
20	B	601	CLA	C3D-C4D	-4.27	1.34	1.44
26	L	101	LHG	O8-C23	4.27	1.45	1.33
26	l	101	LHG	O8-C23	4.27	1.45	1.33
29	D	401	CL7	O2D-CGD	4.26	1.43	1.33
20	c	507	CLA	CHC-C1C	4.26	1.47	1.38
27	B	604	F6C	CHC-C4B	4.25	1.47	1.38
20	b	602	CLA	C3D-C4D	-4.25	1.34	1.44
20	B	602	CLA	C3D-C4D	-4.25	1.34	1.44
20	c	502	CLA	CHD-C1D	4.25	1.46	1.38
20	C	507	CLA	CHC-C1C	4.24	1.47	1.38
20	b	610	CLA	C3C-C2C	4.24	1.45	1.36
20	C	509	CLA	C1C-NC	-4.24	1.31	1.37
29	d	401	CL7	C1B-NB	-4.24	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	B	610	CLA	C3C-C2C	4.23	1.45	1.36
20	C	502	CLA	CHD-C1D	4.23	1.46	1.38
27	B	613	F6C	C3D-C4D	-4.23	1.33	1.44
27	b	613	F6C	C3D-C4D	-4.23	1.33	1.44
20	B	608	CLA	CHC-C1C	4.22	1.46	1.38
20	b	608	CLA	CHC-C1C	4.22	1.46	1.38
20	c	509	CLA	C1C-NC	-4.22	1.31	1.37
20	c	503	CLA	CHD-C1D	4.22	1.46	1.38
29	D	401	CL7	C1B-NB	-4.21	1.32	1.37
27	b	613	F6C	O2D-CGD	4.20	1.43	1.33
20	C	503	CLA	CHD-C1D	4.20	1.46	1.38
20	c	505	CLA	CHD-C1D	4.20	1.46	1.38
20	C	505	CLA	CHD-C1D	4.19	1.46	1.38
27	B	613	F6C	O2D-CGD	4.18	1.43	1.33
20	B	605	CLA	C1C-NC	-4.18	1.31	1.37
20	a	405	CLA	CHC-C1C	4.17	1.46	1.38
20	c	512	CLA	C1D-ND	-4.17	1.32	1.37
20	C	512	CLA	C1D-ND	-4.16	1.32	1.37
20	C	502	CLA	CHC-C1C	4.15	1.46	1.38
20	c	502	CLA	CHC-C1C	4.15	1.46	1.38
20	b	605	CLA	C1C-NC	-4.15	1.31	1.37
22	B	616	BCR	C10-C9	-4.15	1.26	1.35
20	A	405	CLA	CHC-C1C	4.15	1.46	1.38
20	C	505	CLA	C3C-C2C	4.14	1.45	1.36
20	D	403	CLA	O2D-CGD	4.14	1.43	1.33
20	d	403	CLA	O2D-CGD	4.14	1.43	1.33
30	D	409	LMG	O8-C28	4.14	1.45	1.33
20	B	601	CLA	CHD-C1D	4.13	1.46	1.38
20	c	505	CLA	C3C-C2C	4.13	1.45	1.36
30	d	409	LMG	O8-C28	4.13	1.45	1.33
20	b	601	CLA	CHD-C1D	4.13	1.46	1.38
30	m	101	LMG	O8-C28	4.13	1.45	1.33
30	M	101	LMG	O8-C28	4.12	1.45	1.33
22	b	616	BCR	C10-C9	-4.12	1.26	1.35
30	d	409	LMG	O7-C10	4.12	1.45	1.34
20	b	609	CLA	C3C-C2C	4.12	1.45	1.36
20	C	514	CLA	C3C-C2C	4.12	1.45	1.36
20	c	514	CLA	C3C-C2C	4.12	1.45	1.36
20	A	405	CLA	CHD-C1D	4.11	1.46	1.38
20	C	512	CLA	C3C-C2C	4.11	1.45	1.36
20	B	609	CLA	C3C-C2C	4.11	1.45	1.36
20	a	405	CLA	CHD-C1D	4.11	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	D	409	LMG	O7-C10	4.11	1.45	1.34
20	c	510	CLA	CHC-C4B	4.10	1.48	1.39
20	B	615	CLA	CHC-C1C	4.10	1.46	1.38
20	C	510	CLA	CHC-C4B	4.09	1.48	1.39
20	c	503	CLA	C3C-C2C	4.09	1.45	1.36
20	c	512	CLA	C3C-C2C	4.08	1.45	1.36
20	b	605	CLA	C4B-NB	-4.08	1.32	1.37
20	b	608	CLA	C3C-C2C	4.08	1.45	1.36
20	B	608	CLA	C3C-C2C	4.08	1.45	1.36
20	C	503	CLA	C3C-C2C	4.08	1.45	1.36
20	b	615	CLA	CHC-C1C	4.07	1.46	1.38
20	B	609	CLA	CHC-C1C	4.07	1.46	1.38
20	b	609	CLA	CHC-C1C	4.07	1.46	1.38
20	D	404	CLA	CHB-C1B	4.06	1.48	1.39
20	B	605	CLA	C4B-NB	-4.04	1.32	1.37
20	d	404	CLA	CHB-C1B	4.04	1.48	1.39
20	B	609	CLA	CHD-C1D	4.03	1.46	1.38
20	C	506	CLA	CHC-C1C	4.03	1.46	1.38
27	b	613	F6C	CHC-C4B	4.03	1.46	1.38
20	b	609	CLA	CHD-C1D	4.03	1.46	1.38
20	D	404	CLA	CHD-C1D	4.03	1.46	1.38
20	c	506	CLA	CHC-C1C	4.02	1.46	1.38
20	b	605	CLA	C3C-C2C	4.02	1.45	1.36
26	A	412	LHG	O8-C23	4.02	1.45	1.33
20	H	101	CLA	CHD-C1D	4.02	1.46	1.38
20	b	614	CLA	C1D-ND	-4.01	1.32	1.37
20	h	101	CLA	CHD-C1D	4.01	1.46	1.38
26	D	408	LHG	O7-C7	4.01	1.45	1.34
27	B	613	F6C	CHC-C4B	4.01	1.46	1.38
20	C	507	CLA	C1B-NB	-4.00	1.32	1.37
20	B	605	CLA	C3C-C2C	4.00	1.45	1.36
20	C	509	CLA	C3C-C2C	4.00	1.45	1.36
26	a	412	LHG	O8-C23	3.99	1.45	1.33
20	d	404	CLA	CHD-C1D	3.99	1.46	1.38
20	B	614	CLA	C1D-ND	-3.99	1.32	1.37
20	c	509	CLA	C3C-C2C	3.99	1.45	1.36
27	c	508	F6C	CHC-C1C	3.98	1.48	1.39
27	C	508	F6C	CHC-C1C	3.98	1.48	1.39
20	B	606	CLA	CHB-C1B	3.98	1.48	1.39
20	b	606	CLA	CHB-C1B	3.98	1.48	1.39
26	d	408	LHG	O7-C7	3.98	1.45	1.34
20	B	610	CLA	CHD-C1D	3.97	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	A	404	CLA	CHB-C1B	3.97	1.48	1.39
20	c	507	CLA	C1B-NB	-3.97	1.32	1.37
27	B	607	F6C	CHC-C1C	3.97	1.48	1.39
20	C	502	CLA	CHD-C4C	3.96	1.48	1.39
27	b	607	F6C	CHC-C1C	3.96	1.48	1.39
20	a	404	CLA	CHB-C1B	3.96	1.48	1.39
27	c	508	F6C	CHB-C1B	3.95	1.48	1.39
20	b	606	CLA	CHC-C4B	3.95	1.48	1.39
20	c	502	CLA	CHD-C4C	3.95	1.48	1.39
20	b	610	CLA	CHD-C1D	3.95	1.46	1.38
20	B	610	CLA	C1B-NB	-3.95	1.32	1.37
20	B	606	CLA	CHD-C4C	3.95	1.48	1.39
20	b	606	CLA	CHD-C4C	3.95	1.48	1.39
29	d	401	CL7	C1D-ND	-3.94	1.32	1.37
20	B	603	CLA	CHC-C4B	3.94	1.48	1.39
27	B	607	F6C	CHB-C1B	3.94	1.48	1.39
20	c	507	CLA	CHD-C4C	3.94	1.48	1.39
27	b	607	F6C	MG-NC	3.94	2.13	2.05
27	C	508	F6C	CHB-C1B	3.94	1.48	1.39
20	B	606	CLA	CHC-C4B	3.94	1.48	1.39
20	B	605	CLA	CHC-C1C	3.94	1.46	1.38
20	B	602	CLA	CHB-C1B	3.93	1.48	1.39
27	b	607	F6C	CHB-C1B	3.93	1.48	1.39
27	B	607	F6C	MG-NC	3.93	2.13	2.05
22	d	405	BCR	C10-C9	-3.93	1.26	1.35
22	D	405	BCR	C10-C9	-3.93	1.26	1.35
20	B	603	CLA	CHD-C4C	3.92	1.48	1.39
20	b	605	CLA	CHC-C1C	3.92	1.46	1.38
20	A	407	CLA	CHB-C1B	3.92	1.48	1.39
29	d	401	CL7	C4C-NC	-3.92	1.32	1.37
20	b	614	CLA	C3C-C2C	3.92	1.45	1.36
20	C	503	CLA	C1C-NC	-3.92	1.31	1.37
20	c	503	CLA	C1C-NC	-3.92	1.31	1.37
20	a	407	CLA	CHB-C1B	3.92	1.48	1.39
20	C	510	CLA	CHD-C1D	3.92	1.46	1.38
20	B	614	CLA	C3C-C2C	3.92	1.45	1.36
20	b	603	CLA	CHC-C4B	3.92	1.48	1.39
20	b	602	CLA	CHB-C1B	3.91	1.48	1.39
27	b	607	F6C	CHD-C4C	3.91	1.48	1.39
20	B	602	CLA	CHD-C4C	3.91	1.48	1.39
20	a	404	CLA	CHC-C4B	3.91	1.48	1.39
20	C	514	CLA	CHD-C4C	3.91	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	c	514	CLA	CHD-C4C	3.91	1.48	1.39
20	a	404	CLA	CHD-C4C	3.90	1.48	1.39
20	B	609	CLA	C1D-ND	-3.90	1.32	1.37
20	b	611	CLA	C1B-NB	-3.90	1.32	1.37
20	B	603	CLA	CHB-C1B	3.90	1.48	1.39
20	c	510	CLA	CHD-C1D	3.90	1.46	1.38
20	C	507	CLA	CHD-C4C	3.90	1.48	1.39
20	b	602	CLA	CHD-C4C	3.90	1.48	1.39
20	b	603	CLA	CHD-C4C	3.90	1.48	1.39
20	A	404	CLA	CHC-C4B	3.90	1.48	1.39
20	A	404	CLA	CHD-C4C	3.90	1.48	1.39
20	a	407	CLA	CHD-C4C	3.90	1.48	1.39
20	b	609	CLA	C1D-ND	-3.89	1.32	1.37
29	D	401	CL7	C1D-ND	-3.89	1.32	1.37
27	B	604	F6C	CHD-C1D	3.89	1.46	1.38
20	A	407	CLA	CHD-C4C	3.89	1.48	1.39
27	b	604	F6C	CHD-C1D	3.89	1.46	1.38
20	A	407	CLA	CHC-C4B	3.89	1.48	1.39
20	a	407	CLA	CHC-C4B	3.89	1.48	1.39
27	C	508	F6C	MG-NC	3.89	2.13	2.05
29	D	401	CL7	C4C-NC	-3.89	1.32	1.37
27	c	508	F6C	CHD-C4C	3.88	1.48	1.39
27	C	508	F6C	CHD-C4C	3.88	1.48	1.39
20	b	603	CLA	CHB-C1B	3.88	1.48	1.39
20	B	614	CLA	CHD-C1D	3.88	1.46	1.38
27	B	607	F6C	CHD-C4C	3.88	1.48	1.39
20	b	610	CLA	CHC-C1C	3.88	1.46	1.38
27	C	508	F6C	C4A-NA	-3.88	1.32	1.37
20	b	602	CLA	OBD-CAD	3.87	1.29	1.22
26	d	407	LHG	O8-C23	3.87	1.44	1.33
20	b	610	CLA	C1B-NB	-3.87	1.32	1.37
20	B	611	CLA	C1B-NB	-3.87	1.32	1.37
20	d	404	CLA	CHD-C4C	3.87	1.48	1.39
20	C	506	CLA	C3C-C2C	3.87	1.45	1.36
20	b	611	CLA	CHD-C1D	3.87	1.46	1.38
20	C	509	CLA	CHC-C1C	3.87	1.46	1.38
27	c	508	F6C	MG-NC	3.86	2.13	2.05
26	D	407	LHG	O8-C23	3.86	1.44	1.33
20	b	612	CLA	C3C-C2C	3.86	1.45	1.36
20	c	509	CLA	CHC-C1C	3.86	1.46	1.38
20	H	101	CLA	C3C-C2C	3.86	1.45	1.36
20	b	614	CLA	CHD-C1D	3.86	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	B	602	CLA	CHC-C4B	3.86	1.48	1.39
27	B	607	F6C	C4A-NA	-3.86	1.32	1.37
20	B	602	CLA	OBD-CAD	3.86	1.29	1.22
20	b	602	CLA	CHC-C4B	3.85	1.48	1.39
20	B	612	CLA	C3C-C2C	3.85	1.45	1.36
20	B	611	CLA	CHD-C1D	3.85	1.45	1.38
20	c	506	CLA	C3C-C2C	3.85	1.45	1.36
20	c	504	CLA	CHD-C4C	3.84	1.47	1.39
20	h	101	CLA	C3C-C2C	3.84	1.45	1.36
20	C	514	CLA	CHC-C4B	3.84	1.48	1.39
29	d	401	CL7	CHC-C1C	3.83	1.45	1.38
27	c	508	F6C	C4A-NA	-3.83	1.32	1.37
20	D	404	CLA	CHD-C4C	3.83	1.47	1.39
20	C	512	CLA	CHB-C1B	3.83	1.48	1.39
20	B	610	CLA	CHC-C1C	3.82	1.46	1.38
20	C	504	CLA	CHD-C4C	3.82	1.47	1.39
30	M	101	LMG	O7-C10	3.82	1.45	1.34
30	m	101	LMG	O7-C10	3.82	1.45	1.34
20	c	512	CLA	CHB-C1B	3.82	1.48	1.39
29	D	401	CL7	CHC-C1C	3.82	1.45	1.38
20	b	605	CLA	C1D-ND	-3.82	1.32	1.37
20	c	514	CLA	CHC-C4B	3.81	1.48	1.39
20	C	512	CLA	CHC-C1C	3.81	1.46	1.38
20	C	503	CLA	C1B-NB	-3.80	1.32	1.37
20	C	506	CLA	C1B-NB	-3.79	1.32	1.37
20	c	512	CLA	CHC-C1C	3.78	1.46	1.38
27	b	607	F6C	C4A-NA	-3.78	1.32	1.37
20	B	605	CLA	C1D-ND	-3.78	1.32	1.37
20	C	510	CLA	MG-ND	-3.77	1.98	2.05
20	a	405	CLA	C3C-C2C	3.77	1.44	1.36
20	b	615	CLA	C3C-C2C	3.77	1.44	1.36
20	B	603	CLA	OBD-CAD	3.77	1.29	1.22
20	b	603	CLA	OBD-CAD	3.77	1.29	1.22
20	c	510	CLA	MG-ND	-3.77	1.98	2.05
20	b	605	CLA	CHB-C1B	3.77	1.47	1.39
20	c	503	CLA	C1B-NB	-3.77	1.32	1.37
20	c	506	CLA	C1B-NB	-3.76	1.32	1.37
27	C	508	F6C	OBD-CAD	3.75	1.28	1.22
31	E	101	HEM	FE-ND	3.75	2.06	1.94
20	A	405	CLA	C3C-C2C	3.75	1.44	1.36
27	c	508	F6C	OBD-CAD	3.75	1.28	1.22
20	c	506	CLA	MG-ND	-3.74	1.98	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	c	504	CLA	CHC-C4B	3.74	1.47	1.39
27	B	613	F6C	CHB-C1B	3.74	1.47	1.39
20	B	605	CLA	CHB-C1B	3.74	1.47	1.39
20	B	615	CLA	C3C-C2C	3.74	1.44	1.36
20	B	601	CLA	OBD-CAD	3.74	1.28	1.22
20	C	507	CLA	C4B-NB	-3.74	1.33	1.37
31	e	101	HEM	FE-ND	3.73	2.06	1.94
20	c	507	CLA	C4B-NB	-3.73	1.33	1.37
20	B	606	CLA	OBD-CAD	3.73	1.28	1.22
20	b	611	CLA	C1C-NC	-3.73	1.32	1.37
20	D	404	CLA	C1D-ND	-3.73	1.33	1.37
20	d	404	CLA	C1D-ND	-3.73	1.33	1.37
20	a	404	CLA	OBD-CAD	3.73	1.28	1.22
27	b	613	F6C	CHB-C1B	3.73	1.47	1.39
20	C	504	CLA	CHC-C4B	3.72	1.47	1.39
20	b	608	CLA	CHD-C1D	3.72	1.45	1.38
20	B	611	CLA	C1C-NC	-3.71	1.32	1.37
20	B	608	CLA	CHD-C1D	3.71	1.45	1.38
20	a	405	CLA	C1C-NC	-3.71	1.32	1.37
20	A	404	CLA	OBD-CAD	3.71	1.28	1.22
27	B	607	F6C	OBD-CAD	3.70	1.28	1.22
27	b	607	F6C	OBD-CAD	3.70	1.28	1.22
20	b	601	CLA	OBD-CAD	3.70	1.28	1.22
20	C	503	CLA	CHC-C1C	3.70	1.45	1.38
20	c	503	CLA	CHC-C1C	3.70	1.45	1.38
20	b	606	CLA	OBD-CAD	3.70	1.28	1.22
27	b	604	F6C	C1C-NC	-3.70	1.33	1.37
20	C	505	CLA	CHD-C4C	3.69	1.47	1.39
20	C	506	CLA	MG-ND	-3.69	1.98	2.05
20	a	407	CLA	OBD-CAD	3.69	1.28	1.22
20	A	405	CLA	C1C-NC	-3.69	1.32	1.37
20	c	505	CLA	CHD-C4C	3.69	1.47	1.39
24	D	406	PL9	C53-C6	-3.68	1.43	1.50
20	A	407	CLA	OBD-CAD	3.68	1.28	1.22
20	c	512	CLA	C1B-NB	-3.68	1.33	1.37
24	d	406	PL9	C53-C6	-3.68	1.43	1.50
20	a	405	CLA	CHD-C4C	3.68	1.47	1.39
20	B	610	CLA	C1D-ND	-3.67	1.33	1.37
27	b	607	F6C	C3D-C4D	-3.67	1.34	1.44
27	C	508	F6C	C3D-C4D	-3.67	1.34	1.44
27	c	508	F6C	C3D-C4D	-3.67	1.34	1.44
20	C	513	CLA	OBD-CAD	3.67	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	C	512	CLA	C1B-NB	-3.67	1.33	1.37
27	B	604	F6C	C1C-NC	-3.67	1.33	1.37
20	A	405	CLA	CHD-C4C	3.67	1.47	1.39
27	B	607	F6C	C3D-C4D	-3.67	1.34	1.44
31	V	201	HEM	FE-NB	3.66	2.06	1.94
31	v	201	HEM	FE-NB	3.66	2.06	1.94
20	B	612	CLA	CHC-C4B	3.65	1.47	1.39
20	b	612	CLA	CHC-C4B	3.65	1.47	1.39
20	C	510	CLA	C1D-ND	-3.65	1.33	1.37
20	b	601	CLA	CHC-C4B	3.65	1.47	1.39
20	C	511	CLA	CHD-C4C	3.65	1.47	1.39
20	c	511	CLA	CHD-C4C	3.65	1.47	1.39
26	D	407	LHG	O7-C7	3.64	1.44	1.34
20	c	513	CLA	OBD-CAD	3.64	1.28	1.22
20	d	403	CLA	CHB-C1B	3.64	1.47	1.39
20	D	403	CLA	CHB-C1B	3.63	1.47	1.39
20	B	601	CLA	CHC-C4B	3.63	1.47	1.39
20	b	605	CLA	C1B-NB	-3.62	1.33	1.37
20	b	610	CLA	C1D-ND	-3.62	1.33	1.37
20	B	615	CLA	C1B-NB	-3.61	1.33	1.37
20	b	615	CLA	C1B-NB	-3.61	1.33	1.37
26	d	407	LHG	O7-C7	3.61	1.44	1.34
20	B	605	CLA	C1B-NB	-3.61	1.33	1.37
20	b	601	CLA	CHD-C4C	3.61	1.47	1.39
20	C	514	CLA	OBD-CAD	3.60	1.28	1.22
20	c	510	CLA	C1D-ND	-3.60	1.33	1.37
26	D	408	LHG	O8-C23	3.60	1.43	1.33
20	B	601	CLA	CHD-C4C	3.59	1.47	1.39
20	C	506	CLA	CHD-C1D	3.59	1.45	1.38
20	h	101	CLA	C1D-ND	-3.59	1.33	1.37
20	C	513	CLA	CHD-C4C	3.59	1.47	1.39
20	c	506	CLA	CHD-C1D	3.59	1.45	1.38
20	B	605	CLA	CHD-C1D	3.59	1.45	1.38
20	b	605	CLA	CHD-C1D	3.59	1.45	1.38
26	d	408	LHG	O8-C23	3.59	1.43	1.33
20	c	513	CLA	CHD-C4C	3.59	1.47	1.39
20	D	403	CLA	CHD-C4C	3.58	1.47	1.39
20	C	504	CLA	C1D-ND	-3.58	1.33	1.37
20	d	403	CLA	CHD-C4C	3.58	1.47	1.39
20	c	514	CLA	CHB-C1B	3.58	1.47	1.39
20	c	514	CLA	OBD-CAD	3.57	1.28	1.22
27	b	613	F6C	CHD-C1D	3.57	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	H	101	CLA	C1D-ND	-3.57	1.33	1.37
26	l	101	LHG	O7-C7	3.56	1.44	1.34
20	C	514	CLA	CHB-C1B	3.56	1.47	1.39
20	c	504	CLA	C1D-ND	-3.56	1.33	1.37
20	b	615	CLA	CHD-C1D	3.55	1.45	1.38
20	B	601	CLA	CHB-C1B	3.55	1.47	1.39
24	A	410	PL9	C10-C9	-3.55	1.42	1.50
24	a	410	PL9	C10-C9	-3.55	1.42	1.50
20	C	511	CLA	CHB-C1B	3.55	1.47	1.39
26	L	101	LHG	O7-C7	3.55	1.44	1.34
20	b	601	CLA	CHB-C1B	3.55	1.47	1.39
20	C	511	CLA	C1B-NB	-3.55	1.33	1.37
20	c	511	CLA	C1B-NB	-3.55	1.33	1.37
20	D	404	CLA	CHC-C4B	3.54	1.47	1.39
20	d	404	CLA	CHC-C4B	3.54	1.47	1.39
27	B	613	F6C	CHD-C1D	3.54	1.45	1.38
20	c	513	CLA	CHB-C1B	3.53	1.47	1.39
20	C	509	CLA	CHD-C1D	3.53	1.45	1.38
20	b	612	CLA	CHB-C1B	3.53	1.47	1.39
20	C	502	CLA	C1D-ND	-3.53	1.33	1.37
20	c	502	CLA	C1D-ND	-3.53	1.33	1.37
20	B	615	CLA	CHD-C1D	3.53	1.45	1.38
20	b	609	CLA	CHB-C1B	3.53	1.47	1.39
20	c	509	CLA	CHD-C1D	3.53	1.45	1.38
20	c	511	CLA	CHB-C1B	3.52	1.47	1.39
20	B	612	CLA	C1B-NB	-3.52	1.33	1.37
20	C	513	CLA	CHB-C1B	3.52	1.47	1.39
20	D	403	CLA	CHC-C4B	3.52	1.47	1.39
20	C	505	CLA	C1B-NB	-3.52	1.33	1.37
20	d	403	CLA	CHC-C4B	3.51	1.47	1.39
20	B	609	CLA	CHB-C1B	3.50	1.47	1.39
20	b	612	CLA	C1B-NB	-3.50	1.33	1.37
20	B	612	CLA	CHB-C1B	3.50	1.47	1.39
20	C	503	CLA	CHB-C1B	3.50	1.47	1.39
20	c	503	CLA	CHB-C1B	3.50	1.47	1.39
20	c	505	CLA	C1B-NB	-3.50	1.33	1.37
20	C	502	CLA	OBD-CAD	3.49	1.28	1.22
20	C	503	CLA	CHD-C4C	3.49	1.47	1.39
20	c	503	CLA	CHD-C4C	3.49	1.47	1.39
21	d	402	PHO	C1D-C2D	3.48	1.43	1.39
20	b	615	CLA	CHD-C4C	3.48	1.47	1.39
20	b	608	CLA	MG-ND	-3.48	1.98	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	B	608	CLA	CHD-C4C	3.48	1.47	1.39
20	b	610	CLA	C1C-NC	-3.48	1.32	1.37
20	C	510	CLA	CHD-C4C	3.48	1.47	1.39
20	B	615	CLA	CHD-C4C	3.47	1.47	1.39
20	c	505	CLA	CHB-C1B	3.47	1.47	1.39
20	b	609	CLA	C4B-NB	-3.47	1.33	1.37
27	B	604	F6C	CHC-C1C	3.47	1.47	1.39
20	c	502	CLA	OBD-CAD	3.47	1.28	1.22
20	b	608	CLA	CHD-C4C	3.46	1.47	1.39
20	C	505	CLA	OBD-CAD	3.46	1.28	1.22
20	C	511	CLA	CHC-C4B	3.46	1.47	1.39
20	c	505	CLA	C1D-ND	-3.46	1.33	1.37
20	C	509	CLA	CHD-C4C	3.46	1.47	1.39
20	b	614	CLA	CHD-C4C	3.46	1.47	1.39
21	A	406	PHO	C1D-C2D	3.46	1.43	1.39
27	b	604	F6C	CHC-C1C	3.46	1.47	1.39
22	C	515	BCR	C11-C12	-3.45	1.25	1.34
20	c	510	CLA	CHD-C4C	3.45	1.47	1.39
20	C	502	CLA	CHC-C4B	3.45	1.47	1.39
20	c	502	CLA	CHC-C4B	3.45	1.47	1.39
20	C	505	CLA	CHB-C1B	3.45	1.47	1.39
20	H	101	CLA	CHC-C4B	3.45	1.47	1.39
20	h	101	CLA	CHC-C4B	3.45	1.47	1.39
20	A	405	CLA	CHB-C1B	3.45	1.47	1.39
20	B	614	CLA	CHD-C4C	3.45	1.47	1.39
20	c	509	CLA	CHD-C4C	3.45	1.47	1.39
20	c	507	CLA	C1D-ND	-3.45	1.33	1.37
20	c	505	CLA	OBD-CAD	3.45	1.28	1.22
20	b	615	CLA	CHC-C4B	3.44	1.47	1.39
27	B	604	F6C	CHD-C4C	3.44	1.47	1.39
22	c	515	BCR	C11-C12	-3.44	1.25	1.34
20	C	512	CLA	CHD-C1D	3.44	1.45	1.38
20	C	513	CLA	CHC-C4B	3.44	1.47	1.39
20	B	608	CLA	MG-ND	-3.44	1.99	2.05
22	A	408	BCR	C11-C12	-3.44	1.25	1.34
27	b	604	F6C	CHD-C4C	3.44	1.47	1.39
20	B	609	CLA	CHD-C4C	3.44	1.47	1.39
20	b	609	CLA	CHD-C4C	3.44	1.47	1.39
20	B	609	CLA	C4B-NB	-3.44	1.33	1.37
20	D	403	CLA	C1B-NB	-3.44	1.33	1.37
20	a	405	CLA	CHB-C1B	3.44	1.47	1.39
20	c	511	CLA	CHC-C4B	3.44	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	C	506	CLA	CHC-C4B	3.43	1.47	1.39
20	B	610	CLA	C1C-NC	-3.43	1.32	1.37
20	c	503	CLA	C4B-NB	-3.43	1.33	1.37
20	B	615	CLA	CHC-C4B	3.43	1.47	1.39
20	B	610	CLA	CHD-C4C	3.43	1.47	1.39
22	b	617	BCR	C11-C12	-3.43	1.25	1.34
22	B	617	BCR	C11-C12	-3.43	1.25	1.34
22	a	408	BCR	C11-C12	-3.43	1.25	1.34
20	C	503	CLA	C4B-NB	-3.43	1.33	1.37
20	c	513	CLA	CHC-C4B	3.43	1.47	1.39
20	d	403	CLA	C1B-NB	-3.42	1.33	1.37
20	C	507	CLA	C1D-ND	-3.42	1.33	1.37
21	a	406	PHO	C1D-C2D	3.41	1.43	1.39
21	D	402	PHO	C1D-C2D	3.41	1.43	1.39
20	h	101	CLA	CHD-C4C	3.41	1.47	1.39
27	B	613	F6C	CHD-C4C	3.40	1.47	1.39
20	c	506	CLA	CHC-C4B	3.40	1.47	1.39
20	c	512	CLA	CHD-C1D	3.40	1.45	1.38
20	b	615	CLA	C1C-NC	-3.40	1.32	1.37
20	b	611	CLA	CHC-C1C	3.40	1.45	1.38
20	C	505	CLA	C1D-ND	-3.40	1.33	1.37
20	B	615	CLA	C1C-NC	-3.40	1.32	1.37
20	B	609	CLA	C1C-NC	-3.39	1.32	1.37
20	H	101	CLA	CHD-C4C	3.39	1.46	1.39
20	b	610	CLA	CHD-C4C	3.39	1.46	1.39
27	b	613	F6C	CHD-C4C	3.39	1.47	1.39
20	B	608	CLA	OBD-CAD	3.39	1.28	1.22
20	b	612	CLA	CHD-C1D	3.39	1.45	1.38
20	A	405	CLA	C1D-ND	-3.38	1.33	1.37
20	a	405	CLA	C1D-ND	-3.38	1.33	1.37
20	C	505	CLA	CHC-C4B	3.38	1.47	1.39
20	B	612	CLA	CHD-C1D	3.37	1.45	1.38
20	B	611	CLA	C3C-C2C	3.37	1.44	1.36
20	b	609	CLA	C1C-NC	-3.37	1.32	1.37
20	c	506	CLA	C1C-NC	-3.37	1.32	1.37
20	C	511	CLA	OBD-CAD	3.37	1.28	1.22
20	B	611	CLA	CHC-C1C	3.37	1.45	1.38
20	c	505	CLA	CHC-C4B	3.36	1.47	1.39
20	c	513	CLA	C1D-ND	-3.36	1.33	1.37
20	b	611	CLA	C3C-C2C	3.36	1.44	1.36
20	C	506	CLA	C1C-NC	-3.36	1.32	1.37
20	c	507	CLA	CHC-C4B	3.36	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	b	608	CLA	OBD-CAD	3.35	1.28	1.22
20	C	507	CLA	CHC-C4B	3.35	1.46	1.39
20	b	615	CLA	C1D-ND	-3.35	1.33	1.37
20	C	513	CLA	C1D-ND	-3.35	1.33	1.37
27	b	613	F6C	C1C-NC	-3.35	1.33	1.37
26	A	412	LHG	O7-C7	3.34	1.43	1.34
20	b	608	CLA	CHC-C4B	3.34	1.46	1.39
26	a	412	LHG	O7-C7	3.34	1.43	1.34
20	C	511	CLA	C1D-ND	-3.34	1.33	1.37
20	c	511	CLA	OBD-CAD	3.33	1.28	1.22
22	d	405	BCR	C11-C12	-3.33	1.26	1.34
20	C	502	CLA	C1C-NC	-3.33	1.32	1.37
20	B	615	CLA	C1D-ND	-3.33	1.33	1.37
20	H	101	CLA	CHB-C1B	3.33	1.46	1.39
22	D	405	BCR	C11-C12	-3.33	1.26	1.34
20	c	513	CLA	C1B-NB	-3.32	1.33	1.37
20	b	614	CLA	CHC-C4B	3.32	1.46	1.39
20	h	101	CLA	CHB-C1B	3.32	1.46	1.39
20	B	608	CLA	CHC-C4B	3.32	1.46	1.39
20	C	513	CLA	C1B-NB	-3.31	1.33	1.37
20	h	101	CLA	C1C-NC	-3.31	1.32	1.37
20	c	511	CLA	C1D-ND	-3.31	1.33	1.37
24	D	406	PL9	C52-C5	-3.31	1.44	1.50
20	B	614	CLA	CHC-C4B	3.31	1.46	1.39
20	A	405	CLA	CHC-C4B	3.31	1.46	1.39
20	a	405	CLA	CHC-C4B	3.31	1.46	1.39
20	b	614	CLA	MG-ND	-3.31	1.99	2.05
27	B	613	F6C	C1C-NC	-3.30	1.33	1.37
24	d	406	PL9	C52-C5	-3.30	1.44	1.50
20	c	502	CLA	C1C-NC	-3.30	1.32	1.37
27	b	604	F6C	MG-NC	3.30	2.12	2.05
20	H	101	CLA	C1C-NC	-3.30	1.32	1.37
20	B	614	CLA	CHB-C1B	3.29	1.46	1.39
20	b	611	CLA	CHB-C1B	3.29	1.46	1.39
20	C	512	CLA	CHD-C4C	3.29	1.46	1.39
20	B	614	CLA	MG-ND	-3.29	1.99	2.05
28	C	516	DGD	O5D-C6D	-3.29	1.38	1.43
20	C	503	CLA	C1D-ND	-3.28	1.33	1.37
21	D	402	PHO	CMD-C2D	-3.28	1.45	1.51
20	c	512	CLA	CHD-C4C	3.28	1.46	1.39
20	b	614	CLA	CHB-C1B	3.28	1.46	1.39
20	b	612	CLA	C4B-NB	-3.28	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	B	611	CLA	CHB-C1B	3.28	1.46	1.39
21	d	402	PHO	CMD-C2D	-3.27	1.45	1.51
27	B	604	F6C	MG-NC	3.27	2.12	2.05
28	c	516	DGD	O5D-C6D	-3.27	1.38	1.43
20	B	611	CLA	CHD-C4C	3.27	1.46	1.39
28	C	516	DGD	O2G-C2G	-3.27	1.38	1.46
29	d	401	CL7	C4B-NB	-3.27	1.33	1.37
29	D	401	CL7	C4B-NB	-3.27	1.33	1.37
20	b	611	CLA	CHD-C4C	3.26	1.46	1.39
23	l	102	SQD	O47-C7	3.26	1.43	1.34
20	C	507	CLA	OBD-CAD	3.26	1.28	1.22
20	C	506	CLA	OBD-CAD	3.25	1.28	1.22
23	L	102	SQD	O47-C7	3.25	1.43	1.34
28	c	516	DGD	O2G-C2G	-3.25	1.38	1.46
20	C	502	CLA	C3D-C2D	3.25	1.47	1.39
20	B	612	CLA	C4B-NB	-3.25	1.33	1.37
20	C	514	CLA	C1D-ND	-3.25	1.33	1.37
22	b	616	BCR	C11-C12	-3.25	1.26	1.34
20	b	601	CLA	C3D-C2D	3.24	1.47	1.39
20	c	502	CLA	C3D-C2D	3.24	1.47	1.39
20	B	601	CLA	C3D-C2D	3.24	1.47	1.39
20	c	507	CLA	OBD-CAD	3.24	1.28	1.22
20	c	504	CLA	MG-ND	-3.24	1.99	2.05
20	c	503	CLA	C1D-ND	-3.23	1.33	1.37
22	B	616	BCR	C11-C12	-3.22	1.26	1.34
31	E	101	HEM	CAB-C3B	3.22	1.56	1.47
31	e	101	HEM	CAB-C3B	3.22	1.56	1.47
20	C	511	CLA	C1C-NC	-3.22	1.32	1.37
20	c	511	CLA	C1C-NC	-3.22	1.32	1.37
20	c	507	CLA	CHB-C1B	3.22	1.46	1.39
20	c	506	CLA	OBD-CAD	3.22	1.28	1.22
20	b	609	CLA	OBD-CAD	3.22	1.28	1.22
20	B	605	CLA	OBD-CAD	3.22	1.28	1.22
20	b	605	CLA	OBD-CAD	3.22	1.28	1.22
20	C	504	CLA	MG-ND	-3.22	1.99	2.05
20	c	503	CLA	MG-ND	-3.22	1.99	2.05
27	b	607	F6C	C3B-C2B	3.22	1.46	1.39
20	C	504	CLA	CHB-C1B	3.22	1.46	1.39
24	D	406	PL9	C31-C29	-3.21	1.44	1.51
22	B	618	BCR	C11-C12	-3.21	1.26	1.34
27	B	607	F6C	C3B-C2B	3.21	1.46	1.39
20	c	512	CLA	OBD-CAD	3.21	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	C	512	CLA	OBD-CAD	3.21	1.28	1.22
27	c	508	F6C	C3B-C2B	3.21	1.46	1.39
20	b	611	CLA	OBD-CAD	3.21	1.28	1.22
20	C	506	CLA	CHB-C1B	3.20	1.46	1.39
22	b	618	BCR	C11-C12	-3.20	1.26	1.34
24	d	406	PL9	C31-C29	-3.20	1.44	1.51
20	C	507	CLA	CHB-C1B	3.20	1.46	1.39
20	c	514	CLA	C1D-ND	-3.20	1.33	1.37
20	c	506	CLA	CHB-C1B	3.20	1.46	1.39
20	B	609	CLA	C1B-NB	-3.19	1.33	1.37
20	b	609	CLA	C1B-NB	-3.19	1.33	1.37
27	C	508	F6C	C3B-C2B	3.19	1.46	1.39
20	B	608	CLA	CHB-C1B	3.19	1.46	1.39
20	H	101	CLA	C1B-NB	-3.19	1.33	1.37
20	c	504	CLA	CHB-C1B	3.18	1.46	1.39
20	b	608	CLA	CHB-C1B	3.18	1.46	1.39
20	C	503	CLA	MG-ND	-3.18	1.99	2.05
27	B	613	F6C	C4C-NC	-3.18	1.33	1.37
27	b	613	F6C	C4C-NC	-3.18	1.33	1.37
27	b	613	F6C	MG-ND	-3.18	1.98	2.06
20	B	614	CLA	C1C-NC	-3.17	1.32	1.37
20	B	610	CLA	CHB-C1B	3.17	1.46	1.39
27	B	613	F6C	MG-NC	3.17	2.12	2.05
20	B	609	CLA	OBD-CAD	3.17	1.27	1.22
27	B	613	F6C	MG-ND	-3.17	1.98	2.06
20	A	405	CLA	C1B-NB	-3.17	1.33	1.37
20	a	405	CLA	C1B-NB	-3.17	1.33	1.37
20	B	608	CLA	C1C-NC	-3.17	1.32	1.37
20	b	614	CLA	C1C-NC	-3.17	1.32	1.37
20	b	612	CLA	C1C-NC	-3.17	1.32	1.37
20	B	605	CLA	C1B-C2B	3.16	1.50	1.43
20	b	605	CLA	C1B-C2B	3.16	1.50	1.43
20	h	101	CLA	C1B-NB	-3.16	1.33	1.37
20	c	512	CLA	C4B-NB	-3.16	1.33	1.37
29	D	401	CL7	OBD-CAD	3.16	1.27	1.22
20	b	608	CLA	C1C-NC	-3.16	1.32	1.37
20	B	612	CLA	C1C-NC	-3.16	1.32	1.37
27	b	613	F6C	MG-NC	3.16	2.12	2.05
20	B	611	CLA	OBD-CAD	3.16	1.27	1.22
20	a	405	CLA	MG-ND	-3.16	1.99	2.05
20	B	612	CLA	CHD-C4C	3.16	1.46	1.39
20	b	612	CLA	CHD-C4C	3.16	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	C	507	CLA	MG-ND	-3.15	1.99	2.05
20	C	502	CLA	CHB-C1B	3.15	1.46	1.39
20	c	502	CLA	CHB-C1B	3.15	1.46	1.39
20	b	614	CLA	C1B-NB	-3.15	1.33	1.37
31	V	201	HEM	CAB-C3B	3.15	1.55	1.47
20	c	507	CLA	MG-ND	-3.14	1.99	2.05
20	C	503	CLA	OBD-CAD	3.14	1.27	1.22
29	d	401	CL7	OBD-CAD	3.14	1.27	1.22
20	c	514	CLA	C1C-NC	-3.14	1.32	1.37
20	A	405	CLA	MG-ND	-3.14	1.99	2.05
20	B	614	CLA	C1B-NB	-3.14	1.33	1.37
20	b	610	CLA	CHB-C1B	3.14	1.46	1.39
20	C	506	CLA	CHD-C4C	3.13	1.46	1.39
20	B	610	CLA	CHC-C4B	3.13	1.46	1.39
20	b	610	CLA	CHC-C4B	3.13	1.46	1.39
20	c	506	CLA	CHD-C4C	3.13	1.46	1.39
20	a	404	CLA	MG-NC	3.12	2.13	2.06
31	v	201	HEM	CAB-C3B	3.12	1.55	1.47
20	C	512	CLA	C4B-NB	-3.12	1.33	1.37
20	C	509	CLA	OBD-CAD	3.12	1.27	1.22
21	A	406	PHO	CMD-C2D	-3.12	1.45	1.51
20	b	606	CLA	MG-NC	3.12	2.13	2.06
20	B	609	CLA	C3D-C2D	3.12	1.47	1.39
21	a	406	PHO	C4D-ND	-3.11	1.33	1.38
28	c	516	DGD	O4D-C4D	-3.11	1.35	1.43
20	B	605	CLA	CHD-C4C	3.11	1.46	1.39
20	C	510	CLA	CHB-C1B	3.11	1.46	1.39
20	B	601	CLA	C1D-ND	-3.10	1.33	1.37
27	B	604	F6C	C3B-C2B	3.10	1.46	1.39
20	B	606	CLA	MG-NC	3.10	2.13	2.06
20	b	605	CLA	CHC-C4B	3.10	1.46	1.39
20	C	512	CLA	CHC-C4B	3.10	1.46	1.39
28	C	516	DGD	O4D-C4D	-3.10	1.35	1.43
20	B	602	CLA	MG-NC	3.10	2.13	2.06
20	c	502	CLA	C4B-NB	-3.09	1.33	1.37
20	B	610	CLA	OBD-CAD	3.09	1.27	1.22
20	c	503	CLA	OBD-CAD	3.09	1.27	1.22
21	a	406	PHO	CMD-C2D	-3.09	1.45	1.51
20	c	509	CLA	OBD-CAD	3.09	1.27	1.22
20	b	603	CLA	MG-NC	3.09	2.13	2.06
20	c	512	CLA	CHC-C4B	3.09	1.46	1.39
20	B	605	CLA	CHC-C4B	3.09	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D	401	CL7	MG-ND	-3.09	1.99	2.05
20	b	605	CLA	CHD-C4C	3.09	1.46	1.39
27	B	613	F6C	C1D-ND	-3.09	1.33	1.37
27	b	613	F6C	C1D-ND	-3.09	1.33	1.37
20	A	404	CLA	MG-NC	3.09	2.13	2.06
21	A	406	PHO	C4D-ND	-3.09	1.33	1.38
20	C	514	CLA	C1C-NC	-3.08	1.33	1.37
20	c	510	CLA	CHB-C1B	3.08	1.46	1.39
20	B	603	CLA	MG-NC	3.08	2.13	2.06
20	b	601	CLA	C1D-ND	-3.08	1.33	1.37
29	d	401	CL7	MG-ND	-3.08	1.99	2.05
27	b	604	F6C	C1A-C2A	3.08	1.52	1.45
20	b	609	CLA	C3D-C2D	3.07	1.47	1.39
27	b	604	F6C	C3B-C2B	3.07	1.46	1.39
20	b	602	CLA	MG-NC	3.07	2.13	2.06
27	c	508	F6C	C3D-C2D	3.07	1.47	1.39
20	a	407	CLA	C3D-C2D	3.06	1.47	1.39
20	C	502	CLA	C1B-NB	-3.06	1.33	1.37
20	c	502	CLA	C1B-NB	-3.06	1.33	1.37
20	A	407	CLA	MG-NC	3.06	2.13	2.06
20	b	609	CLA	CHC-C4B	3.06	1.46	1.39
20	a	407	CLA	MG-NC	3.06	2.13	2.06
20	b	610	CLA	OBD-CAD	3.06	1.27	1.22
20	B	611	CLA	CHC-C4B	3.06	1.46	1.39
20	c	509	CLA	CHB-C1B	3.05	1.46	1.39
29	D	401	CL7	C1A-CHA	3.05	1.51	1.38
20	C	513	CLA	MG-ND	-3.05	1.99	2.05
20	B	609	CLA	CHC-C4B	3.05	1.46	1.39
20	C	509	CLA	CHB-C1B	3.05	1.46	1.39
27	C	508	F6C	C3D-C2D	3.05	1.47	1.39
29	d	401	CL7	C1A-CHA	3.05	1.51	1.38
20	C	506	CLA	C4B-NB	-3.05	1.33	1.37
20	B	605	CLA	MG-ND	-3.05	1.99	2.05
27	B	604	F6C	C1A-C2A	3.04	1.51	1.45
20	c	506	CLA	C4B-NB	-3.04	1.33	1.37
20	B	606	CLA	C3D-C2D	3.03	1.47	1.39
20	B	612	CLA	MG-ND	-3.03	1.99	2.05
20	b	612	CLA	MG-ND	-3.03	1.99	2.05
20	C	502	CLA	C4B-NB	-3.03	1.33	1.37
20	A	407	CLA	C3D-C2D	3.03	1.47	1.39
20	C	504	CLA	OBD-CAD	3.03	1.27	1.22
20	b	603	CLA	C3D-C2D	3.03	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	B	603	CLA	C3D-C2D	3.03	1.47	1.39
21	A	406	PHO	C4D-CHA	3.03	1.44	1.39
20	b	611	CLA	CHC-C4B	3.02	1.46	1.39
20	b	606	CLA	C3D-C2D	3.02	1.47	1.39
20	a	404	CLA	C3D-C2D	3.02	1.47	1.39
20	b	605	CLA	MG-ND	-3.02	1.99	2.05
20	c	504	CLA	OBD-CAD	3.02	1.27	1.22
20	C	509	CLA	CHC-C4B	3.02	1.46	1.39
20	A	404	CLA	C3D-C2D	3.02	1.47	1.39
20	B	609	CLA	C1B-C2B	3.02	1.50	1.43
27	B	604	F6C	C1D-ND	-3.02	1.33	1.37
27	b	604	F6C	C1D-ND	-3.02	1.33	1.37
20	C	509	CLA	C4B-NB	-3.01	1.33	1.37
20	c	509	CLA	CHC-C4B	3.01	1.46	1.39
30	m	101	LMG	C37-C36	-3.01	1.33	1.51
27	B	604	F6C	CHB-C1B	3.01	1.46	1.39
27	b	604	F6C	CHB-C1B	3.01	1.46	1.39
27	B	607	F6C	C3D-C2D	3.01	1.47	1.39
20	B	602	CLA	C3D-C2D	3.01	1.47	1.39
21	a	406	PHO	C4D-CHA	3.01	1.44	1.39
20	c	513	CLA	MG-ND	-3.01	1.99	2.05
20	b	602	CLA	C3D-C2D	3.00	1.47	1.39
20	d	403	CLA	CHD-C1D	3.00	1.44	1.38
20	D	403	CLA	C1C-NC	-3.00	1.33	1.37
30	M	101	LMG	C37-C36	-3.00	1.33	1.51
27	b	607	F6C	C3D-C2D	3.00	1.47	1.39
20	C	507	CLA	C1C-NC	-3.00	1.33	1.37
20	b	601	CLA	MG-NC	3.00	2.13	2.06
20	b	609	CLA	C1B-C2B	3.00	1.50	1.43
20	C	512	CLA	MG-ND	-3.00	1.99	2.05
20	B	601	CLA	MG-NC	2.99	2.13	2.06
20	c	512	CLA	MG-ND	-2.99	1.99	2.05
20	b	612	CLA	OBD-CAD	2.99	1.27	1.22
20	d	403	CLA	C1C-NC	-2.99	1.33	1.37
20	D	403	CLA	CHD-C1D	2.99	1.44	1.38
27	B	604	F6C	MG-ND	-2.99	1.99	2.06
20	B	612	CLA	OBD-CAD	2.99	1.27	1.22
27	b	604	F6C	OBD-CAD	2.98	1.27	1.22
27	b	604	F6C	MG-ND	-2.98	1.99	2.06
31	E	101	HEM	FE-NA	2.98	2.05	1.95
31	V	201	HEM	FE-ND	2.98	2.04	1.94
20	D	404	CLA	C1C-NC	-2.98	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	604	F6C	OBD-CAD	2.98	1.27	1.22
20	d	403	CLA	MG-ND	-2.98	1.99	2.05
20	d	404	CLA	MG-ND	-2.98	1.99	2.05
31	e	101	HEM	FE-NA	2.98	2.05	1.95
20	c	507	CLA	C1C-NC	-2.97	1.33	1.37
29	D	401	CL7	CHC-C4B	2.97	1.46	1.39
29	d	401	CL7	CHC-C4B	2.97	1.46	1.39
20	d	404	CLA	C1C-NC	-2.97	1.33	1.37
20	c	504	CLA	MG-NC	2.96	2.13	2.06
29	d	401	CL7	CHD-C1D	2.96	1.46	1.39
20	b	602	CLA	C1B-C2B	2.96	1.50	1.43
20	D	404	CLA	MG-ND	-2.96	1.99	2.05
20	c	509	CLA	C4B-NB	-2.96	1.34	1.37
20	C	511	CLA	C4B-NB	-2.96	1.34	1.37
20	D	403	CLA	MG-ND	-2.96	1.99	2.05
31	v	201	HEM	FE-ND	2.95	2.04	1.94
20	B	602	CLA	C1B-C2B	2.95	1.50	1.43
20	c	511	CLA	C4B-NB	-2.95	1.34	1.37
29	D	401	CL7	CHD-C1D	2.94	1.46	1.39
20	C	503	CLA	CHC-C4B	2.94	1.46	1.39
20	b	608	CLA	C3D-C2D	2.94	1.47	1.39
20	C	504	CLA	MG-NC	2.93	2.13	2.06
20	B	601	CLA	MG-ND	-2.93	2.00	2.05
20	B	608	CLA	C3D-C2D	2.93	1.47	1.39
20	H	101	CLA	MG-ND	-2.92	2.00	2.05
20	c	503	CLA	CHC-C4B	2.92	1.46	1.39
31	v	201	HEM	FE-NC	2.92	2.04	1.95
21	D	402	PHO	C4D-ND	-2.92	1.34	1.38
20	A	405	CLA	OBD-CAD	2.92	1.27	1.22
27	c	508	F6C	C3C-C2C	2.92	1.46	1.38
31	V	201	HEM	FE-NC	2.91	2.04	1.95
20	a	404	CLA	C1B-C2B	2.91	1.50	1.43
20	b	606	CLA	C1B-C2B	2.91	1.50	1.43
27	B	607	F6C	C3C-C2C	2.91	1.46	1.38
27	b	607	F6C	C3C-C2C	2.91	1.46	1.38
20	b	601	CLA	MG-ND	-2.91	2.00	2.05
20	b	601	CLA	C4D-CHA	2.91	1.48	1.38
20	C	513	CLA	C1C-NC	-2.91	1.33	1.37
20	c	513	CLA	C1C-NC	-2.91	1.33	1.37
20	B	601	CLA	C4D-CHA	2.90	1.48	1.38
20	c	509	CLA	C3D-C2D	2.90	1.46	1.39
20	c	513	CLA	MG-NC	2.90	2.13	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	a	407	CLA	C1B-C2B	2.90	1.49	1.43
20	C	513	CLA	MG-NC	2.90	2.13	2.06
27	B	607	F6C	C1D-C2D	2.90	1.50	1.44
20	C	512	CLA	C1C-NC	-2.90	1.33	1.37
20	c	512	CLA	C1C-NC	-2.90	1.33	1.37
27	B	604	F6C	C4C-NC	-2.90	1.34	1.37
27	b	604	F6C	C4C-NC	-2.90	1.34	1.37
20	A	407	CLA	C1B-C2B	2.90	1.49	1.43
27	C	508	F6C	C3C-C2C	2.89	1.46	1.38
20	h	101	CLA	MG-ND	-2.89	2.00	2.05
27	b	613	F6C	C3D-C2D	2.89	1.46	1.39
20	C	504	CLA	C1B-NB	-2.89	1.34	1.37
20	c	514	CLA	C3D-C2D	2.89	1.46	1.39
20	C	509	CLA	C3D-C2D	2.88	1.46	1.39
20	C	514	CLA	C3D-C2D	2.88	1.46	1.39
20	C	505	CLA	MG-ND	-2.88	2.00	2.05
31	E	101	HEM	CAC-C3C	2.88	1.55	1.47
31	e	101	HEM	CAC-C3C	2.88	1.55	1.47
27	b	613	F6C	C3B-C2B	2.88	1.46	1.39
20	B	606	CLA	C1B-C2B	2.88	1.49	1.43
20	a	405	CLA	OBD-CAD	2.88	1.27	1.22
20	C	506	CLA	C3D-C2D	2.88	1.46	1.39
20	D	404	CLA	C3D-C2D	2.88	1.46	1.39
20	c	505	CLA	C3D-C2D	2.88	1.46	1.39
20	d	404	CLA	C3D-C2D	2.88	1.46	1.39
20	c	504	CLA	C1B-NB	-2.88	1.34	1.37
20	A	404	CLA	C1B-C2B	2.87	1.49	1.43
27	B	613	F6C	C3D-C2D	2.87	1.46	1.39
20	C	505	CLA	C3D-C2D	2.87	1.46	1.39
27	B	613	F6C	OBD-CAD	2.87	1.27	1.22
21	d	402	PHO	C4D-ND	-2.87	1.34	1.38
27	b	607	F6C	C1D-C2D	2.86	1.50	1.44
27	C	508	F6C	C1D-C2D	2.86	1.50	1.44
27	c	508	F6C	C1D-C2D	2.86	1.50	1.44
20	c	507	CLA	C3D-C2D	2.86	1.46	1.39
20	B	615	CLA	CHB-C1B	2.86	1.45	1.39
27	B	613	F6C	C3B-C2B	2.86	1.46	1.39
20	c	506	CLA	C3D-C2D	2.86	1.46	1.39
20	C	507	CLA	C3D-C2D	2.85	1.46	1.39
20	C	513	CLA	C4D-CHA	2.85	1.48	1.38
20	c	505	CLA	MG-ND	-2.84	2.00	2.05
20	c	513	CLA	C4D-CHA	2.84	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	d	404	CLA	C1B-C2B	2.84	1.49	1.43
20	D	404	CLA	C4B-NB	-2.84	1.34	1.37
20	C	502	CLA	MG-ND	-2.83	2.00	2.05
20	D	404	CLA	C1B-C2B	2.83	1.49	1.43
27	b	613	F6C	OBD-CAD	2.83	1.27	1.22
20	b	603	CLA	C1B-C2B	2.83	1.49	1.43
20	B	610	CLA	C3D-C2D	2.83	1.46	1.39
20	b	610	CLA	C3D-C2D	2.83	1.46	1.39
20	h	101	CLA	C1B-C2B	2.83	1.49	1.43
20	b	615	CLA	CHB-C1B	2.83	1.45	1.39
20	B	608	CLA	MG-NC	2.82	2.13	2.06
29	D	401	CL7	CHB-C1B	2.82	1.45	1.39
20	D	404	CLA	MG-NC	2.82	2.13	2.06
20	d	404	CLA	MG-NC	2.82	2.13	2.06
20	C	514	CLA	C4B-NB	-2.82	1.34	1.37
20	c	511	CLA	MG-ND	-2.82	2.00	2.05
20	B	615	CLA	C3D-C2D	2.82	1.46	1.39
20	b	615	CLA	C3D-C2D	2.82	1.46	1.39
20	c	504	CLA	C3D-C2D	2.81	1.46	1.39
20	c	502	CLA	MG-ND	-2.81	2.00	2.05
20	d	404	CLA	C4B-NB	-2.81	1.34	1.37
31	V	201	HEM	FE-NA	2.81	2.04	1.95
20	H	101	CLA	C1B-C2B	2.81	1.49	1.43
20	B	603	CLA	C1B-C2B	2.81	1.49	1.43
31	v	201	HEM	FE-NA	2.81	2.04	1.95
20	b	608	CLA	MG-NC	2.81	2.12	2.06
27	B	613	F6C	CHC-C1C	2.80	1.45	1.39
20	c	512	CLA	C3D-C2D	2.80	1.46	1.39
20	C	513	CLA	C3D-C2D	2.80	1.46	1.39
20	C	504	CLA	C3D-C2D	2.79	1.46	1.39
21	a	406	PHO	CMC-C2C	-2.79	1.46	1.50
20	C	503	CLA	C3D-C2D	2.79	1.46	1.39
27	b	613	F6C	CHC-C1C	2.79	1.45	1.39
20	c	503	CLA	C3D-C2D	2.79	1.46	1.39
20	c	513	CLA	C3D-C2D	2.79	1.46	1.39
29	d	401	CL7	CHB-C1B	2.79	1.45	1.39
20	c	505	CLA	C4D-CHA	2.79	1.48	1.38
20	c	502	CLA	C4D-CHA	2.79	1.47	1.38
20	C	505	CLA	C1C-NC	-2.79	1.33	1.37
20	C	512	CLA	C3D-C2D	2.79	1.46	1.39
20	c	505	CLA	C1C-NC	-2.78	1.33	1.37
20	c	514	CLA	C4B-NB	-2.78	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	D	403	CLA	OBD-CAD	2.78	1.27	1.22
20	C	505	CLA	C4D-CHA	2.78	1.47	1.38
29	d	401	CL7	MG-NC	2.78	2.11	2.05
29	D	401	CL7	MG-NC	2.78	2.11	2.05
20	a	404	CLA	C4D-CHA	2.78	1.47	1.38
20	c	514	CLA	C1B-NB	-2.77	1.34	1.37
20	a	407	CLA	C4D-CHA	2.77	1.47	1.38
20	b	610	CLA	MG-ND	-2.77	2.00	2.05
20	d	403	CLA	OBD-CAD	2.77	1.27	1.22
20	c	511	CLA	C1B-C2B	2.77	1.49	1.43
20	C	511	CLA	MG-ND	-2.77	2.00	2.05
20	h	101	CLA	OBD-CAD	2.77	1.27	1.22
21	A	406	PHO	CMC-C2C	-2.77	1.46	1.50
20	B	608	CLA	C4D-CHA	2.77	1.47	1.38
20	C	502	CLA	C4D-CHA	2.77	1.47	1.38
20	a	405	CLA	C4B-NB	-2.77	1.34	1.37
20	A	404	CLA	C4D-CHA	2.77	1.47	1.38
20	d	404	CLA	C1B-NB	-2.77	1.34	1.37
20	b	614	CLA	C4D-CHA	2.76	1.47	1.38
20	b	608	CLA	C4D-CHA	2.76	1.47	1.38
20	H	101	CLA	OBD-CAD	2.76	1.27	1.22
20	b	615	CLA	C4B-NB	-2.76	1.34	1.37
20	A	405	CLA	C4B-NB	-2.76	1.34	1.37
20	A	407	CLA	C4D-CHA	2.76	1.47	1.38
20	C	503	CLA	C1B-C2B	2.75	1.49	1.43
32	h	102	RRX	C23-C22	-2.75	1.40	1.46
20	C	504	CLA	C4D-CHA	2.75	1.47	1.38
20	b	602	CLA	C4D-CHA	2.75	1.47	1.38
20	C	511	CLA	C1B-C2B	2.75	1.49	1.43
20	B	614	CLA	C4D-CHA	2.75	1.47	1.38
32	H	102	RRX	C23-C22	-2.74	1.40	1.46
20	B	606	CLA	C4D-CHA	2.74	1.47	1.38
20	B	603	CLA	C4D-CHA	2.74	1.47	1.38
20	b	603	CLA	C4D-CHA	2.74	1.47	1.38
20	c	504	CLA	C4D-CHA	2.74	1.47	1.38
20	B	610	CLA	MG-ND	-2.74	2.00	2.05
20	C	506	CLA	MG-NC	2.74	2.12	2.06
20	c	503	CLA	C1B-C2B	2.74	1.49	1.43
20	c	506	CLA	MG-NC	2.73	2.12	2.06
20	C	514	CLA	C1B-NB	-2.73	1.34	1.37
20	B	602	CLA	C4D-CHA	2.73	1.47	1.38
32	h	102	RRX	C8-C9	-2.73	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
28	d	410	DGD	O2G-C2G	-2.73	1.40	1.46
20	b	615	CLA	C1B-C2B	2.73	1.49	1.43
20	b	601	CLA	C1B-NB	-2.73	1.34	1.37
20	c	510	CLA	C1B-NB	-2.73	1.34	1.37
20	b	610	CLA	C4D-CHA	2.72	1.47	1.38
20	C	514	CLA	MG-ND	-2.72	2.00	2.05
20	c	514	CLA	MG-ND	-2.72	2.00	2.05
20	b	606	CLA	C4D-CHA	2.72	1.47	1.38
20	B	610	CLA	C4D-CHA	2.72	1.47	1.38
20	B	601	CLA	C1B-NB	-2.72	1.34	1.37
31	v	201	HEM	CAC-C3C	2.72	1.54	1.47
32	H	102	RRX	C8-C9	-2.72	1.40	1.46
20	b	614	CLA	C4B-NB	-2.72	1.34	1.37
20	D	404	CLA	C1B-NB	-2.71	1.34	1.37
20	C	513	CLA	C4B-NB	-2.71	1.34	1.37
28	D	410	DGD	O2G-C2G	-2.71	1.40	1.46
20	B	614	CLA	C4B-NB	-2.71	1.34	1.37
20	C	510	CLA	C1B-NB	-2.71	1.34	1.37
20	B	605	CLA	MG-NC	2.70	2.12	2.06
20	b	605	CLA	MG-NC	2.70	2.12	2.06
20	B	615	CLA	C4D-CHA	2.70	1.47	1.38
20	b	615	CLA	C4D-CHA	2.70	1.47	1.38
27	c	508	F6C	C1C-NC	-2.70	1.34	1.37
20	B	612	CLA	MG-NC	2.70	2.12	2.06
31	V	201	HEM	CAC-C3C	2.69	1.54	1.47
20	B	615	CLA	C1B-C2B	2.69	1.49	1.43
20	b	612	CLA	C4D-CHA	2.69	1.47	1.38
20	B	614	CLA	OBD-CAD	2.69	1.27	1.22
20	B	615	CLA	MG-ND	-2.69	2.00	2.05
20	c	513	CLA	C4B-NB	-2.68	1.34	1.37
20	b	614	CLA	OBD-CAD	2.68	1.27	1.22
20	B	612	CLA	C4D-CHA	2.68	1.47	1.38
20	B	615	CLA	C4B-NB	-2.68	1.34	1.37
20	C	510	CLA	C3D-C2D	2.68	1.46	1.39
20	b	612	CLA	MG-NC	2.68	2.12	2.06
20	C	510	CLA	OBD-CAD	2.68	1.27	1.22
20	c	510	CLA	OBD-CAD	2.68	1.27	1.22
20	b	609	CLA	MG-NC	2.67	2.12	2.06
20	B	609	CLA	MG-NC	2.67	2.12	2.06
20	C	514	CLA	C1B-C2B	2.67	1.49	1.43
29	d	401	CL7	C3D-C4D	-2.67	1.32	1.40
20	c	510	CLA	C3D-C2D	2.67	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	b	605	CLA	C3D-C2D	2.66	1.46	1.39
27	C	508	F6C	C1C-NC	-2.66	1.34	1.37
20	B	605	CLA	C3D-C2D	2.66	1.46	1.39
20	B	614	CLA	MG-NC	2.66	2.12	2.06
29	D	401	CL7	C3D-C4D	-2.66	1.32	1.40
20	b	614	CLA	MG-NC	2.65	2.12	2.06
24	D	406	PL9	C26-C24	-2.65	1.45	1.51
20	c	504	CLA	C1B-C2B	2.65	1.49	1.43
20	b	615	CLA	MG-ND	-2.65	2.00	2.05
20	c	510	CLA	C1C-NC	-2.65	1.33	1.37
27	b	604	F6C	CHB-C4A	-2.65	1.33	1.38
20	C	510	CLA	C1C-NC	-2.65	1.33	1.37
27	B	604	F6C	CHB-C4A	-2.65	1.33	1.38
20	c	514	CLA	C1B-C2B	2.64	1.49	1.43
24	d	406	PL9	C26-C24	-2.64	1.45	1.51
20	C	514	CLA	C4D-CHA	2.64	1.47	1.38
20	c	514	CLA	C4D-CHA	2.64	1.47	1.38
20	c	511	CLA	C4D-CHA	2.64	1.47	1.38
20	C	511	CLA	C4D-CHA	2.64	1.47	1.38
20	C	504	CLA	C1B-C2B	2.64	1.49	1.43
20	b	608	CLA	C4B-NB	-2.63	1.34	1.37
20	b	611	CLA	C3D-C2D	2.63	1.46	1.39
20	C	510	CLA	MG-NC	2.63	2.12	2.06
31	e	101	HEM	FE-NB	2.62	2.03	1.94
21	a	406	PHO	CAC-C3C	-2.62	1.47	1.51
33	M	102	LMT	O2B-C2B	-2.62	1.36	1.43
20	B	611	CLA	C3D-C2D	2.61	1.46	1.39
31	E	101	HEM	FE-NB	2.61	2.02	1.94
20	c	510	CLA	MG-NC	2.61	2.12	2.06
33	m	102	LMT	O2B-C2B	-2.61	1.36	1.43
20	B	608	CLA	C4B-NB	-2.61	1.34	1.37
20	a	407	CLA	C1B-NB	-2.61	1.34	1.37
20	B	602	CLA	C1D-C2D	2.61	1.50	1.45
20	C	503	CLA	C4D-CHA	2.60	1.47	1.38
20	c	503	CLA	C4D-CHA	2.60	1.47	1.38
29	d	401	CL7	C3A-C4A	-2.60	1.47	1.52
20	b	602	CLA	C1D-C2D	2.60	1.50	1.45
20	b	609	CLA	C4D-CHA	2.59	1.47	1.38
20	c	512	CLA	C1B-C2B	2.59	1.49	1.43
20	A	405	CLA	MG-NC	2.59	2.12	2.06
20	c	506	CLA	C4D-CHA	2.59	1.47	1.38
20	A	407	CLA	C1B-NB	-2.59	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	c	507	CLA	C4D-CHA	2.59	1.47	1.38
20	B	609	CLA	C4D-CHA	2.59	1.47	1.38
20	C	507	CLA	C4D-CHA	2.59	1.47	1.38
28	C	517	DGD	C4D-C3D	2.59	1.59	1.52
20	a	407	CLA	C1D-C2D	2.59	1.50	1.45
20	B	610	CLA	C4B-NB	-2.59	1.34	1.37
20	b	610	CLA	C4B-NB	-2.59	1.34	1.37
20	H	101	CLA	C4D-CHA	2.59	1.47	1.38
20	A	407	CLA	C1D-ND	-2.59	1.34	1.37
20	B	611	CLA	C4B-NB	-2.59	1.34	1.37
27	b	607	F6C	C1C-NC	-2.59	1.34	1.37
29	D	401	CL7	C3A-C4A	-2.59	1.47	1.52
20	C	506	CLA	C4D-CHA	2.59	1.47	1.38
20	A	407	CLA	C1D-C2D	2.59	1.50	1.45
28	c	517	DGD	C4D-C3D	2.58	1.59	1.52
20	A	405	CLA	C1B-C2B	2.58	1.49	1.43
20	b	602	CLA	C4B-NB	-2.58	1.34	1.37
20	b	606	CLA	C1B-NB	-2.58	1.34	1.37
27	C	508	F6C	C4A-C3A	2.58	1.50	1.45
27	B	607	F6C	C1C-NC	-2.58	1.34	1.37
21	A	406	PHO	CAC-C3C	-2.58	1.47	1.51
20	H	101	CLA	MG-NC	2.57	2.12	2.06
20	h	101	CLA	MG-NC	2.57	2.12	2.06
20	h	101	CLA	C4D-CHA	2.57	1.47	1.38
20	B	603	CLA	C1D-ND	-2.57	1.34	1.37
20	B	603	CLA	C1D-C2D	2.57	1.50	1.45
20	B	606	CLA	C1D-C2D	2.57	1.50	1.45
20	b	606	CLA	C1D-C2D	2.57	1.50	1.45
20	a	405	CLA	MG-NC	2.57	2.12	2.06
20	a	405	CLA	C1B-C2B	2.57	1.49	1.43
20	a	407	CLA	C1D-ND	-2.57	1.34	1.37
20	B	602	CLA	C4B-NB	-2.57	1.34	1.37
27	c	508	F6C	CMB-C2B	2.57	1.51	1.45
20	C	512	CLA	C1B-C2B	2.57	1.49	1.43
20	c	507	CLA	MG-NC	2.56	2.12	2.06
20	c	510	CLA	C4D-CHA	2.56	1.47	1.38
20	C	510	CLA	C4D-CHA	2.56	1.47	1.38
27	c	508	F6C	C4A-C3A	2.56	1.50	1.45
20	d	404	CLA	C4D-CHA	2.56	1.47	1.38
20	C	513	CLA	C1B-C2B	2.56	1.49	1.43
20	A	405	CLA	C3D-C2D	2.55	1.46	1.39
20	a	405	CLA	C3D-C2D	2.55	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	607	F6C	C4A-C3A	2.55	1.50	1.45
20	C	502	CLA	C1B-C2B	2.55	1.49	1.43
20	c	502	CLA	C1B-C2B	2.55	1.49	1.43
20	a	404	CLA	C1D-C2D	2.55	1.50	1.45
20	c	513	CLA	C1B-C2B	2.55	1.49	1.43
20	b	603	CLA	C1D-C2D	2.55	1.50	1.45
20	B	606	CLA	C1B-NB	-2.54	1.34	1.37
20	A	404	CLA	C1D-C2D	2.54	1.50	1.45
20	B	614	CLA	C3D-C2D	2.54	1.45	1.39
27	C	508	F6C	CMB-C2B	2.54	1.51	1.45
27	B	607	F6C	C2B-C1B	2.54	1.49	1.44
27	b	607	F6C	C2B-C1B	2.54	1.49	1.44
20	B	601	CLA	C1C-NC	-2.54	1.33	1.37
20	D	404	CLA	C4D-CHA	2.54	1.47	1.38
20	C	507	CLA	MG-NC	2.54	2.12	2.06
20	b	601	CLA	C1C-NC	-2.54	1.33	1.37
27	b	607	F6C	C4A-C3A	2.54	1.50	1.45
20	b	611	CLA	C4B-NB	-2.54	1.34	1.37
20	c	504	CLA	C1C-NC	-2.54	1.33	1.37
20	B	606	CLA	C1D-ND	-2.54	1.34	1.37
20	b	614	CLA	C3D-C2D	2.53	1.45	1.39
21	D	402	PHO	CMC-C2C	-2.53	1.46	1.50
21	d	402	PHO	CMC-C2C	-2.53	1.46	1.50
20	b	603	CLA	C1B-NB	-2.53	1.34	1.37
20	c	505	CLA	MG-NC	2.53	2.12	2.06
27	B	607	F6C	CMB-C2B	2.53	1.51	1.45
20	B	603	CLA	C1B-NB	-2.53	1.34	1.37
24	a	410	PL9	C6-C1	-2.53	1.44	1.48
20	b	612	CLA	C3D-C2D	2.52	1.45	1.39
20	C	505	CLA	MG-NC	2.52	2.12	2.06
20	a	404	CLA	C1D-ND	-2.52	1.34	1.37
20	b	603	CLA	C1D-ND	-2.52	1.34	1.37
20	a	404	CLA	C1B-NB	-2.52	1.34	1.37
24	A	410	PL9	C6-C1	-2.52	1.44	1.48
20	b	606	CLA	C1D-ND	-2.51	1.34	1.37
20	B	612	CLA	C3D-C2D	2.51	1.45	1.39
20	A	404	CLA	C1D-ND	-2.51	1.34	1.37
27	C	508	F6C	C2B-C1B	2.51	1.49	1.44
27	c	508	F6C	C2B-C1B	2.51	1.49	1.44
24	D	406	PL9	C35-C34	-2.51	1.44	1.50
24	d	406	PL9	C35-C34	-2.51	1.44	1.50
27	b	607	F6C	CMB-C2B	2.51	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	d	406	PL9	C7-C8	-2.50	1.46	1.50
20	C	509	CLA	C4D-CHA	2.50	1.47	1.38
20	A	404	CLA	C1B-NB	-2.50	1.34	1.37
20	b	612	CLA	C1B-C2B	2.50	1.49	1.43
20	A	405	CLA	C4D-CHA	2.50	1.47	1.38
20	a	405	CLA	C4D-CHA	2.50	1.47	1.38
20	B	612	CLA	C1B-C2B	2.50	1.49	1.43
20	d	404	CLA	OBD-CAD	2.50	1.26	1.22
33	M	102	LMT	O2'-C2'	-2.49	1.36	1.43
20	C	504	CLA	C1C-NC	-2.49	1.34	1.37
24	D	406	PL9	C7-C8	-2.49	1.46	1.50
20	c	514	CLA	MG-NC	2.49	2.12	2.06
20	D	404	CLA	OBD-CAD	2.49	1.26	1.22
20	c	504	CLA	C4B-NB	-2.49	1.34	1.37
33	m	102	LMT	O2'-C2'	-2.49	1.36	1.43
20	c	509	CLA	C4D-CHA	2.48	1.46	1.38
20	c	506	CLA	C1B-C2B	2.48	1.48	1.43
20	B	606	CLA	C4B-NB	-2.47	1.34	1.37
20	b	606	CLA	C4B-NB	-2.47	1.34	1.37
20	C	506	CLA	C1B-C2B	2.47	1.48	1.43
22	C	518	BCR	C1-C6	-2.47	1.50	1.53
26	L	101	LHG	O7-C5	-2.47	1.40	1.46
33	M	102	LMT	O3'-C3'	-2.47	1.36	1.43
33	m	102	LMT	O3'-C3'	-2.46	1.36	1.43
20	D	403	CLA	C3D-C2D	2.46	1.45	1.39
20	C	514	CLA	MG-NC	2.46	2.12	2.06
27	b	613	F6C	C4B-NB	-2.46	1.34	1.37
26	l	101	LHG	O7-C5	-2.45	1.40	1.46
27	B	607	F6C	C1A-C2A	2.45	1.50	1.45
20	d	403	CLA	C3D-C2D	2.44	1.45	1.39
20	B	603	CLA	C4B-NB	-2.44	1.34	1.37
20	b	603	CLA	C4B-NB	-2.44	1.34	1.37
21	D	402	PHO	C4D-CHA	2.44	1.43	1.39
21	d	402	PHO	C4D-CHA	2.44	1.43	1.39
20	D	403	CLA	C4B-NB	-2.44	1.34	1.37
21	D	402	PHO	C3D-CAD	-2.44	1.43	1.47
21	d	402	PHO	C3D-CAD	-2.44	1.43	1.47
20	A	404	CLA	C4B-NB	-2.43	1.34	1.37
27	B	613	F6C	C4B-NB	-2.43	1.34	1.37
27	b	607	F6C	C1A-C2A	2.43	1.50	1.45
20	C	504	CLA	C4B-NB	-2.43	1.34	1.37
20	B	605	CLA	C4D-CHA	2.42	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	m	102	LMT	O1'-C1'	-2.42	1.36	1.40
20	a	404	CLA	C4B-NB	-2.42	1.34	1.37
20	B	611	CLA	MG-ND	-2.42	2.01	2.05
33	M	102	LMT	O1'-C1'	-2.42	1.36	1.40
20	c	511	CLA	MG-NC	2.42	2.12	2.06
28	C	516	DGD	O1G-C1G	-2.42	1.39	1.45
20	c	503	CLA	MG-NC	2.42	2.12	2.06
20	H	101	CLA	C3D-C2D	2.42	1.45	1.39
20	h	101	CLA	C3D-C2D	2.42	1.45	1.39
20	A	407	CLA	C4B-NB	-2.41	1.34	1.37
20	a	407	CLA	C4B-NB	-2.41	1.34	1.37
20	b	611	CLA	MG-ND	-2.40	2.01	2.05
20	B	602	CLA	C1D-ND	-2.40	1.34	1.37
20	d	403	CLA	C4B-NB	-2.40	1.34	1.37
20	b	605	CLA	C4D-CHA	2.40	1.46	1.38
20	b	611	CLA	MG-NC	2.40	2.12	2.06
28	C	516	DGD	O3E-C3E	-2.40	1.37	1.43
22	c	518	BCR	C1-C6	-2.40	1.50	1.53
32	h	102	RRX	C14-C13	2.40	1.41	1.35
20	B	601	CLA	C1B-C2B	2.40	1.48	1.43
20	C	505	CLA	C1B-C2B	2.40	1.48	1.43
20	C	511	CLA	MG-NC	2.40	2.12	2.06
20	C	503	CLA	MG-NC	2.39	2.12	2.06
28	c	516	DGD	O3E-C3E	-2.39	1.37	1.43
27	B	613	F6C	CHB-C4A	-2.39	1.33	1.38
20	c	505	CLA	C1B-C2B	2.39	1.48	1.43
32	h	102	RRX	C10-C9	2.39	1.41	1.35
32	H	102	RRX	C14-C13	2.39	1.41	1.35
27	b	613	F6C	CHB-C4A	-2.39	1.33	1.38
30	m	101	LMG	C19-C18	-2.39	1.33	1.50
30	M	101	LMG	C19-C18	-2.38	1.33	1.50
20	D	404	CLA	C4C-C3C	2.38	1.49	1.45
20	C	511	CLA	C3D-C2D	2.38	1.45	1.39
20	c	511	CLA	C3D-C2D	2.38	1.45	1.39
28	c	516	DGD	O1G-C1G	-2.37	1.39	1.45
20	b	611	CLA	C4D-CHA	2.37	1.46	1.38
20	b	601	CLA	C1B-C2B	2.37	1.48	1.43
20	B	611	CLA	MG-NC	2.37	2.11	2.06
32	h	102	RRX	C17-C18	2.37	1.41	1.35
20	b	602	CLA	C1D-ND	-2.37	1.34	1.37
32	H	102	RRX	C17-C18	2.37	1.41	1.35
32	h	102	RRX	C21-C22	2.37	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	d	404	CLA	C4C-C3C	2.37	1.49	1.45
20	c	512	CLA	C4D-CHA	2.37	1.46	1.38
20	B	611	CLA	C4D-CHA	2.37	1.46	1.38
20	B	602	CLA	C1B-NB	-2.36	1.34	1.37
32	H	102	RRX	C10-C9	2.36	1.41	1.35
32	H	102	RRX	C21-C22	2.36	1.41	1.35
20	b	602	CLA	C1B-NB	-2.35	1.34	1.37
20	C	512	CLA	C4D-CHA	2.35	1.46	1.38
20	b	612	CLA	CMA-C3A	-2.35	1.48	1.53
26	A	412	LHG	O7-C5	-2.34	1.41	1.46
20	B	612	CLA	CMA-C3A	-2.34	1.48	1.53
26	a	412	LHG	O7-C5	-2.34	1.41	1.46
20	B	601	CLA	C4B-NB	-2.33	1.34	1.37
27	c	508	F6C	C1A-C2A	2.32	1.50	1.45
20	C	507	CLA	C1B-C2B	2.32	1.48	1.43
21	a	406	PHO	CBD-CGD	-2.32	1.49	1.52
20	h	101	CLA	C4B-NB	-2.31	1.34	1.37
20	B	606	CLA	C4C-C3C	2.31	1.49	1.45
20	b	606	CLA	MG-ND	-2.31	2.01	2.05
21	A	406	PHO	CBD-CGD	-2.30	1.49	1.52
20	C	502	CLA	MG-NC	2.30	2.11	2.06
20	c	507	CLA	C1B-C2B	2.30	1.48	1.43
27	C	508	F6C	C1A-C2A	2.30	1.50	1.45
20	b	601	CLA	C4B-NB	-2.30	1.34	1.37
23	L	102	SQD	O48-C23	2.29	1.40	1.33
20	b	603	CLA	C4C-C3C	2.29	1.48	1.45
20	B	603	CLA	MG-ND	-2.29	2.01	2.05
20	b	603	CLA	MG-ND	-2.29	2.01	2.05
20	D	403	CLA	C1B-C2B	2.29	1.48	1.43
27	b	607	F6C	C1C-C2C	2.29	1.48	1.43
20	c	502	CLA	MG-NC	2.29	2.11	2.06
20	c	514	CLA	C1D-C2D	2.29	1.49	1.45
27	c	508	F6C	C1C-C2C	2.28	1.48	1.43
20	B	610	CLA	C1B-C2B	2.28	1.48	1.43
20	b	610	CLA	C1B-C2B	2.28	1.48	1.43
20	B	615	CLA	OBD-CAD	2.28	1.26	1.22
20	b	615	CLA	OBD-CAD	2.28	1.26	1.22
23	l	102	SQD	O48-C23	2.28	1.40	1.33
20	b	602	CLA	C4C-C3C	2.28	1.48	1.45
27	B	607	F6C	C1C-C2C	2.28	1.48	1.43
20	d	403	CLA	C1B-C2B	2.28	1.48	1.43
20	a	404	CLA	C1C-NC	-2.28	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	A	407	CLA	C4C-C3C	2.28	1.48	1.45
21	A	406	PHO	CMB-C2B	-2.28	1.47	1.51
21	a	406	PHO	CMB-C2B	-2.28	1.47	1.51
20	H	101	CLA	C4B-NB	-2.27	1.34	1.37
21	d	402	PHO	CMB-C2B	-2.27	1.47	1.51
24	D	406	PL9	C36-C34	-2.27	1.46	1.51
24	d	406	PL9	C36-C34	-2.27	1.46	1.51
20	b	606	CLA	C4C-C3C	2.27	1.48	1.45
20	B	603	CLA	C4C-C3C	2.26	1.48	1.45
27	C	508	F6C	C1C-C2C	2.26	1.48	1.43
20	B	602	CLA	C4C-C3C	2.26	1.48	1.45
20	B	606	CLA	MG-ND	-2.26	2.01	2.05
20	a	404	CLA	MG-ND	-2.26	2.01	2.05
20	C	514	CLA	C1D-C2D	2.26	1.49	1.45
20	A	407	CLA	MG-ND	-2.25	2.01	2.05
20	C	507	CLA	C4C-C3C	2.25	1.48	1.45
20	A	404	CLA	C4C-C3C	2.25	1.48	1.45
20	A	404	CLA	MG-ND	-2.25	2.01	2.05
20	D	403	CLA	C3A-C2A	-2.25	1.48	1.54
20	a	407	CLA	MG-ND	-2.25	2.01	2.05
20	d	403	CLA	C3A-C2A	-2.25	1.48	1.54
20	B	602	CLA	C1C-NC	-2.25	1.34	1.37
28	c	517	DGD	O2G-C2G	-2.25	1.41	1.46
20	C	510	CLA	C3B-C4B	2.25	1.49	1.42
21	D	402	PHO	CMB-C2B	-2.24	1.47	1.51
20	a	407	CLA	C4C-C3C	2.24	1.48	1.45
29	D	401	CL7	C1D-C2D	2.24	1.48	1.43
20	B	614	CLA	C1B-C2B	2.24	1.48	1.43
28	C	517	DGD	O2G-C2G	-2.24	1.41	1.46
20	c	510	CLA	C3B-C4B	2.24	1.49	1.42
20	a	404	CLA	C4C-C3C	2.23	1.48	1.45
29	d	401	CL7	C1D-C2D	2.23	1.48	1.43
20	b	602	CLA	MG-ND	-2.23	2.01	2.05
20	b	614	CLA	C1B-C2B	2.23	1.48	1.43
20	c	507	CLA	C4C-C3C	2.23	1.48	1.45
32	H	102	RRX	C19-C18	-2.22	1.41	1.46
20	A	404	CLA	C1C-NC	-2.22	1.34	1.37
20	b	606	CLA	C1C-NC	-2.22	1.34	1.37
27	B	613	F6C	C2B-C1B	2.22	1.49	1.44
20	c	514	CLA	C3B-C4B	2.21	1.49	1.42
32	h	102	RRX	C19-C18	-2.21	1.41	1.46
32	h	102	RRX	C12-C13	-2.21	1.41	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	V	201	HEM	CMD-C2D	2.21	1.55	1.50
20	B	602	CLA	MG-ND	-2.21	2.01	2.05
20	B	606	CLA	C1C-NC	-2.20	1.34	1.37
27	b	613	F6C	C2B-C1B	2.20	1.49	1.44
28	c	517	DGD	O4D-C4D	-2.20	1.37	1.43
31	v	201	HEM	CMD-C2D	2.20	1.55	1.50
24	d	406	PL9	C5-C4	-2.20	1.39	1.47
20	C	512	CLA	MG-NC	2.19	2.11	2.06
20	b	602	CLA	C1C-NC	-2.19	1.34	1.37
27	C	508	F6C	C1D-ND	-2.19	1.34	1.37
27	c	508	F6C	C1D-ND	-2.19	1.34	1.37
20	a	407	CLA	C1C-NC	-2.19	1.34	1.37
20	B	603	CLA	C1C-NC	-2.19	1.34	1.37
20	b	603	CLA	C1C-NC	-2.19	1.34	1.37
20	c	512	CLA	MG-NC	2.19	2.11	2.06
24	D	406	PL9	C5-C4	-2.18	1.39	1.47
20	A	407	CLA	C1C-NC	-2.18	1.34	1.37
20	C	514	CLA	C3B-C4B	2.18	1.49	1.42
23	L	102	SQD	O2-C2	-2.18	1.37	1.43
28	C	517	DGD	O4D-C4D	-2.18	1.37	1.43
32	H	102	RRX	C12-C13	-2.18	1.41	1.46
23	l	102	SQD	O2-C2	-2.18	1.37	1.43
23	a	409	SQD	O8-S	2.18	1.55	1.47
27	B	607	F6C	C1D-ND	-2.18	1.34	1.37
20	d	403	CLA	C4D-CHA	2.17	1.45	1.38
27	B	607	F6C	C4C-C3C	2.17	1.48	1.44
27	C	508	F6C	C4C-C3C	2.17	1.48	1.44
27	b	607	F6C	C4C-C3C	2.17	1.48	1.44
33	M	102	LMT	O3B-C3B	-2.16	1.37	1.43
33	m	102	LMT	O3B-C3B	-2.16	1.37	1.43
23	A	409	SQD	O8-S	2.16	1.55	1.47
27	B	604	F6C	C3C-C2C	2.16	1.44	1.38
27	b	604	F6C	C3C-C2C	2.16	1.44	1.38
20	c	505	CLA	C1D-C2D	2.16	1.49	1.45
27	B	613	F6C	C4D-CHA	2.16	1.48	1.42
27	c	508	F6C	C4C-C3C	2.16	1.48	1.44
31	e	101	HEM	CMC-C2C	2.16	1.55	1.50
20	D	403	CLA	C4D-CHA	2.16	1.45	1.38
31	E	101	HEM	CMC-C2C	2.15	1.55	1.50
21	d	402	PHO	CBD-CGD	-2.15	1.49	1.52
28	c	516	DGD	O2E-C2E	-2.15	1.37	1.43
27	b	613	F6C	C4D-CHA	2.15	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
28	C	516	DGD	O2E-C2E	-2.15	1.37	1.43
20	D	403	CLA	MG-NC	2.15	2.11	2.06
26	D	407	LHG	O7-C5	-2.15	1.41	1.46
20	d	403	CLA	C2A-C1A	-2.15	1.47	1.52
27	B	613	F6C	C3C-C2C	2.15	1.44	1.38
25	A	411	BCT	O1-C	-2.14	1.18	1.25
20	C	505	CLA	C1D-C2D	2.14	1.49	1.45
26	a	412	LHG	O8-C6	-2.14	1.40	1.45
31	V	201	HEM	CMB-C2B	2.14	1.55	1.50
25	a	411	BCT	O1-C	-2.14	1.18	1.25
27	b	613	F6C	C3C-C2C	2.14	1.44	1.38
27	b	607	F6C	C1D-ND	-2.13	1.34	1.37
31	v	201	HEM	CMB-C2B	2.13	1.55	1.50
20	D	403	CLA	C2A-C1A	-2.13	1.47	1.52
23	L	102	SQD	O48-C46	-2.13	1.40	1.45
27	B	613	F6C	C1A-C2A	2.13	1.50	1.45
27	b	613	F6C	C1A-C2A	2.13	1.50	1.45
26	d	407	LHG	O7-C5	-2.13	1.41	1.46
33	m	102	LMT	O4'-C4B	-2.13	1.37	1.43
27	C	508	F6C	MG-ND	-2.13	2.01	2.06
20	d	403	CLA	MG-NC	2.12	2.11	2.06
20	b	601	CLA	C3B-C4B	2.12	1.48	1.42
23	l	102	SQD	O48-C46	-2.12	1.40	1.45
20	C	505	CLA	C4B-NB	-2.11	1.35	1.37
27	c	508	F6C	MG-ND	-2.11	2.01	2.06
27	b	607	F6C	C4C-NC	-2.11	1.35	1.37
26	A	412	LHG	O8-C6	-2.11	1.40	1.45
20	c	505	CLA	C4B-NB	-2.11	1.35	1.37
20	B	601	CLA	C3B-C4B	2.11	1.48	1.42
27	b	607	F6C	MG-ND	-2.11	2.01	2.06
20	B	611	CLA	C1A-CHA	2.11	1.51	1.43
20	b	608	CLA	C1A-CHA	2.10	1.51	1.43
21	D	402	PHO	CBD-CGD	-2.10	1.49	1.52
20	C	504	CLA	C1D-C2D	2.10	1.49	1.45
20	b	611	CLA	C1A-CHA	2.10	1.51	1.43
31	v	201	HEM	CMC-C2C	2.10	1.55	1.50
33	M	102	LMT	O4'-C4B	-2.10	1.37	1.43
27	B	607	F6C	C4C-NC	-2.10	1.35	1.37
27	C	508	F6C	C4C-NC	-2.10	1.35	1.37
20	B	608	CLA	C1A-CHA	2.09	1.51	1.43
28	c	516	DGD	O6D-C5D	-2.08	1.39	1.44
31	V	201	HEM	CMC-C2C	2.08	1.55	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	B	607	F6C	MG-ND	-2.08	2.01	2.06
20	c	504	CLA	C1D-C2D	2.08	1.49	1.45
20	B	602	CLA	C3B-C4B	2.08	1.48	1.42
20	c	505	CLA	C1A-CHA	2.08	1.51	1.43
28	C	516	DGD	O6D-C5D	-2.07	1.39	1.44
20	C	505	CLA	C1A-CHA	2.07	1.51	1.43
20	b	602	CLA	C3B-C4B	2.07	1.48	1.42
20	c	507	CLA	C1D-C2D	2.07	1.49	1.45
28	c	516	DGD	O3G-C3G	-2.07	1.40	1.43
20	C	509	CLA	MG-NC	2.06	2.11	2.06
31	E	101	HEM	CMB-C2B	2.06	1.55	1.50
31	e	101	HEM	CMB-C2B	2.06	1.55	1.50
29	D	401	CL7	CHB-C4A	-2.06	1.32	1.36
27	c	508	F6C	C4C-NC	-2.05	1.35	1.37
20	b	606	CLA	C3B-C4B	2.05	1.48	1.42
20	C	502	CLA	C1D-C2D	2.05	1.49	1.45
27	b	607	F6C	C4D-CHA	2.05	1.47	1.42
28	D	410	DGD	O2D-C2D	-2.05	1.37	1.43
28	d	410	DGD	O2D-C2D	-2.05	1.37	1.43
20	a	407	CLA	C3B-C4B	2.05	1.48	1.42
27	B	604	F6C	C3D-C2D	2.05	1.44	1.39
26	D	408	LHG	O8-C6	-2.05	1.40	1.45
20	c	510	CLA	C1B-C2B	2.05	1.47	1.43
27	B	607	F6C	C4D-CHA	2.04	1.47	1.42
20	C	504	CLA	C3B-C4B	2.04	1.48	1.42
27	C	508	F6C	C4B-NB	-2.04	1.34	1.37
27	b	607	F6C	C4B-NB	-2.04	1.34	1.37
20	B	603	CLA	C3B-C4B	2.04	1.48	1.42
27	b	604	F6C	C4B-NB	-2.04	1.34	1.37
28	C	516	DGD	O3G-C3G	-2.04	1.40	1.43
20	c	504	CLA	C3B-C4B	2.04	1.48	1.42
33	m	102	LMT	O5'-C5'	-2.03	1.39	1.44
27	B	604	F6C	C4B-NB	-2.03	1.34	1.37
20	c	502	CLA	C1D-C2D	2.03	1.49	1.45
20	B	606	CLA	C3B-C4B	2.03	1.48	1.42
33	M	102	LMT	O5'-C5'	-2.03	1.39	1.44
20	B	615	CLA	MG-NC	2.03	2.11	2.06
20	c	509	CLA	MG-NC	2.03	2.11	2.06
20	C	507	CLA	C1D-C2D	2.03	1.49	1.45
20	A	407	CLA	C3B-C4B	2.03	1.48	1.42
20	B	610	CLA	C3B-C4B	2.03	1.48	1.42
20	b	610	CLA	C3B-C4B	2.03	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	l	102	SQD	O4-C4	-2.03	1.37	1.43
20	b	603	CLA	C3B-C4B	2.03	1.48	1.42
29	D	401	CL7	C3B-C4B	2.03	1.48	1.42
20	C	509	CLA	CHB-C4A	-2.03	1.32	1.37
27	B	607	F6C	C4B-NB	-2.03	1.34	1.37
21	A	406	PHO	C3D-CAD	-2.03	1.43	1.47
29	d	401	CL7	CHB-C4A	-2.03	1.32	1.36
20	C	510	CLA	C1B-C2B	2.03	1.47	1.43
29	d	401	CL7	C3B-C4B	2.03	1.48	1.42
24	A	410	PL9	C11-C9	-2.02	1.47	1.51
23	L	102	SQD	O4-C4	-2.02	1.37	1.43
20	b	615	CLA	MG-NC	2.02	2.11	2.06
26	d	408	LHG	O8-C6	-2.02	1.40	1.45
27	c	508	F6C	C4B-NB	-2.02	1.34	1.37
27	b	604	F6C	C3D-C2D	2.02	1.44	1.39
20	a	404	CLA	C3B-C4B	2.02	1.48	1.42
20	b	615	CLA	C1A-CHA	2.01	1.51	1.43
20	B	614	CLA	C1A-CHA	2.01	1.51	1.43
28	C	517	DGD	C4D-C5D	2.01	1.57	1.52
28	C	517	DGD	O1G-C1G	-2.01	1.40	1.45
28	c	517	DGD	O1G-C1G	-2.01	1.40	1.45
20	b	602	CLA	C1C-C2C	2.01	1.48	1.44
26	D	408	LHG	O7-C5	-2.01	1.41	1.46
26	d	408	LHG	O7-C5	-2.01	1.41	1.46
28	c	517	DGD	C4D-C5D	2.01	1.57	1.52
27	C	508	F6C	C4D-CHA	2.01	1.47	1.42
20	A	404	CLA	C3B-C4B	2.01	1.48	1.42
20	c	509	CLA	CHB-C4A	-2.01	1.32	1.37
24	a	410	PL9	C2-C1	-2.01	1.39	1.44
20	B	615	CLA	C1A-CHA	2.01	1.51	1.43
22	a	408	BCR	C30-C25	-2.00	1.51	1.53
21	a	406	PHO	C3D-CAD	-2.00	1.44	1.47
28	C	516	DGD	O4E-C4E	-2.00	1.38	1.43

All (2419) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	b	618	BCR	C16-C17-C18	23.63	160.41	127.28
22	B	618	BCR	C16-C17-C18	23.62	160.40	127.28
22	c	518	BCR	C11-C10-C9	23.31	159.97	127.28
22	C	518	BCR	C11-C10-C9	23.27	159.91	127.28
22	C	515	BCR	C16-C17-C18	22.57	158.94	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	c	515	BCR	C16-C17-C18	22.57	158.94	127.28
22	D	405	BCR	C16-C17-C18	22.32	158.59	127.28
22	d	405	BCR	C16-C17-C18	22.32	158.58	127.28
22	B	617	BCR	C20-C21-C22	22.13	158.32	127.28
22	b	617	BCR	C20-C21-C22	22.11	158.28	127.28
22	c	515	BCR	C20-C21-C22	21.86	157.93	127.28
22	C	515	BCR	C20-C21-C22	21.83	157.89	127.28
22	b	618	BCR	C20-C21-C22	21.61	157.59	127.28
22	B	618	BCR	C20-C21-C22	21.60	157.57	127.28
22	a	408	BCR	C15-C16-C17	20.70	165.87	123.52
22	A	408	BCR	C20-C21-C22	20.67	156.27	127.28
22	a	408	BCR	C20-C21-C22	20.67	156.27	127.28
22	A	408	BCR	C15-C16-C17	20.67	165.82	123.52
22	B	616	BCR	C20-C21-C22	20.64	156.23	127.28
22	b	616	BCR	C20-C21-C22	20.63	156.22	127.28
22	c	515	BCR	C15-C16-C17	20.53	165.52	123.52
22	C	515	BCR	C15-C16-C17	20.52	165.51	123.52
22	B	616	BCR	C15-C16-C17	20.52	165.50	123.52
22	b	616	BCR	C15-C16-C17	20.50	165.46	123.52
22	b	617	BCR	C15-C16-C17	20.34	165.14	123.52
22	B	617	BCR	C15-C16-C17	20.33	165.12	123.52
22	B	616	BCR	C16-C17-C18	19.28	154.32	127.28
22	b	616	BCR	C16-C17-C18	19.25	154.28	127.28
22	a	408	BCR	C16-C17-C18	19.24	154.26	127.28
22	A	408	BCR	C16-C17-C18	19.21	154.22	127.28
22	d	405	BCR	C15-C16-C17	18.84	162.06	123.52
22	D	405	BCR	C15-C16-C17	18.84	162.06	123.52
22	b	617	BCR	C16-C17-C18	18.66	153.45	127.28
22	B	617	BCR	C16-C17-C18	18.64	153.42	127.28
22	a	408	BCR	C10-C11-C12	18.46	176.68	123.20
22	d	405	BCR	C10-C11-C12	18.44	176.64	123.20
22	D	405	BCR	C10-C11-C12	18.44	176.64	123.20
22	A	408	BCR	C10-C11-C12	18.44	176.63	123.20
22	B	616	BCR	C10-C11-C12	18.33	176.31	123.20
22	b	616	BCR	C10-C11-C12	18.32	176.28	123.20
22	B	617	BCR	C10-C11-C12	18.29	176.19	123.20
22	b	617	BCR	C10-C11-C12	18.28	176.17	123.20
22	c	515	BCR	C10-C11-C12	18.27	176.15	123.20
22	C	515	BCR	C10-C11-C12	18.26	176.10	123.20
22	b	618	BCR	C10-C11-C12	18.18	175.86	123.20
22	B	618	BCR	C10-C11-C12	18.17	175.85	123.20
22	b	618	BCR	C15-C16-C17	17.49	159.30	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	618	BCR	C15-C16-C17	17.46	159.25	123.52
22	b	616	BCR	C11-C10-C9	14.68	147.86	127.28
22	B	618	BCR	C21-C20-C19	14.65	165.66	123.20
22	b	618	BCR	C21-C20-C19	14.65	165.66	123.20
22	B	616	BCR	C11-C10-C9	14.64	147.81	127.28
22	a	408	BCR	C21-C20-C19	14.39	164.88	123.20
22	A	408	BCR	C21-C20-C19	14.38	164.87	123.20
22	B	618	BCR	C16-C15-C14	14.34	152.87	123.52
22	b	618	BCR	C16-C15-C14	14.32	152.82	123.52
22	B	617	BCR	C21-C20-C19	13.90	163.48	123.20
22	b	617	BCR	C21-C20-C19	13.88	163.42	123.20
22	b	616	BCR	C21-C20-C19	13.84	163.31	123.20
22	B	616	BCR	C21-C20-C19	13.84	163.29	123.20
22	D	405	BCR	C11-C10-C9	13.76	146.57	127.28
22	B	617	BCR	C11-C10-C9	13.74	146.55	127.28
22	d	405	BCR	C11-C10-C9	13.72	146.52	127.28
22	b	617	BCR	C11-C10-C9	13.70	146.49	127.28
22	c	518	BCR	C10-C11-C12	13.28	161.67	123.20
22	C	518	BCR	C10-C11-C12	13.27	161.66	123.20
22	C	515	BCR	C21-C20-C19	12.89	160.56	123.20
22	c	515	BCR	C21-C20-C19	12.89	160.54	123.20
22	B	616	BCR	C16-C15-C14	12.83	149.76	123.52
22	b	616	BCR	C16-C15-C14	12.82	149.75	123.52
22	d	405	BCR	C16-C15-C14	12.69	149.49	123.52
22	D	405	BCR	C16-C15-C14	12.68	149.47	123.52
22	b	617	BCR	C16-C15-C14	12.66	149.41	123.52
22	B	617	BCR	C16-C15-C14	12.65	149.41	123.52
22	c	515	BCR	C11-C10-C9	12.37	144.63	127.28
22	C	515	BCR	C11-C10-C9	12.33	144.57	127.28
22	C	515	BCR	C11-C12-C13	11.99	159.25	126.36
22	c	515	BCR	C11-C12-C13	11.99	159.25	126.36
22	A	408	BCR	C11-C12-C13	11.85	158.87	126.36
22	a	408	BCR	C11-C12-C13	11.85	158.86	126.36
22	B	618	BCR	C11-C10-C9	11.84	143.88	127.28
22	b	618	BCR	C11-C10-C9	11.83	143.87	127.28
22	c	515	BCR	C16-C15-C14	11.79	147.65	123.52
22	C	515	BCR	C16-C15-C14	11.79	147.64	123.52
22	a	408	BCR	C16-C15-C14	11.72	147.50	123.52
22	A	408	BCR	C16-C15-C14	11.71	147.49	123.52
22	d	405	BCR	C11-C12-C13	11.70	158.44	126.36
22	D	405	BCR	C11-C12-C13	11.68	158.40	126.36
22	a	408	BCR	C11-C10-C9	11.67	143.65	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	408	BCR	C11-C10-C9	11.65	143.62	127.28
22	B	618	BCR	C11-C12-C13	11.13	156.89	126.36
22	b	618	BCR	C11-C12-C13	11.13	156.89	126.36
22	B	616	BCR	C11-C12-C13	10.87	156.16	126.36
22	b	616	BCR	C11-C12-C13	10.86	156.14	126.36
27	B	604	F6C	CAA-C2A-C3A	-10.70	107.83	127.87
27	b	604	F6C	CAA-C2A-C3A	-10.70	107.83	127.87
22	b	617	BCR	C11-C12-C13	10.58	155.37	126.36
22	B	617	BCR	C11-C12-C13	10.57	155.35	126.36
27	B	613	F6C	CAA-C2A-C3A	-10.48	108.25	127.87
27	b	613	F6C	CAA-C2A-C3A	-10.46	108.28	127.87
27	b	607	F6C	C3B-C2B-C1B	-10.44	101.07	106.46
27	B	607	F6C	C3B-C2B-C1B	-10.38	101.11	106.46
27	c	508	F6C	C3B-C2B-C1B	-10.24	101.17	106.46
27	C	508	F6C	C3B-C2B-C1B	-10.23	101.18	106.46
27	B	604	F6C	CMD-C2D-C1D	10.03	140.71	125.03
27	b	604	F6C	CMD-C2D-C1D	9.99	140.65	125.03
27	b	613	F6C	C3B-C2B-C1B	-9.87	101.37	106.46
27	B	613	F6C	C3B-C2B-C1B	-9.84	101.38	106.46
20	c	511	CLA	CMD-C2D-C1D	9.34	141.18	124.73
20	C	511	CLA	CMD-C2D-C1D	9.32	141.13	124.73
27	C	508	F6C	C1D-ND-C4D	-9.30	102.43	106.68
27	b	607	F6C	CAA-C2A-C3A	-9.28	110.49	127.87
27	c	508	F6C	C1D-ND-C4D	-9.27	102.45	106.68
27	B	607	F6C	CAA-C2A-C3A	-9.27	110.50	127.87
27	b	607	F6C	C1D-ND-C4D	-9.25	102.46	106.68
27	B	607	F6C	C1D-ND-C4D	-9.19	102.49	106.68
27	c	508	F6C	CMD-C2D-C1D	9.01	139.12	125.03
27	C	508	F6C	CMD-C2D-C1D	8.98	139.06	125.03
27	b	607	F6C	CMD-C2D-C1D	8.93	138.99	125.03
27	B	607	F6C	CMD-C2D-C1D	8.92	138.98	125.03
27	b	613	F6C	CMD-C2D-C1D	8.84	138.85	125.03
27	c	508	F6C	CAA-C2A-C3A	-8.81	111.37	127.87
27	B	613	F6C	CMD-C2D-C1D	8.81	138.80	125.03
27	C	508	F6C	CAA-C2A-C3A	-8.80	111.39	127.87
29	d	401	CL7	CMD-C2D-C1D	8.72	138.70	125.42
29	D	401	CL7	CMD-C2D-C1D	8.71	138.67	125.42
20	a	405	CLA	CMD-C2D-C1D	8.64	139.94	124.73
20	A	405	CLA	CMD-C2D-C1D	8.63	139.92	124.73
23	l	102	SQD	O6-C1-C2	8.34	120.94	108.27
22	b	616	BCR	C20-C19-C18	8.33	149.21	126.36
23	L	102	SQD	O6-C1-C2	8.32	120.90	108.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	616	BCR	C20-C19-C18	8.31	149.16	126.36
20	c	507	CLA	CMD-C2D-C1D	8.30	139.35	124.73
20	C	507	CLA	CMD-C2D-C1D	8.30	139.34	124.73
20	B	610	CLA	CMD-C2D-C1D	8.28	139.31	124.73
20	b	610	CLA	CMD-C2D-C1D	8.28	139.31	124.73
22	C	515	BCR	C20-C19-C18	8.25	148.99	126.36
22	c	515	BCR	C20-C19-C18	8.24	148.97	126.36
20	b	602	CLA	CMD-C2D-C1D	8.19	139.16	124.73
20	B	602	CLA	CMD-C2D-C1D	8.19	139.15	124.73
20	B	603	CLA	CMD-C2D-C1D	8.17	139.12	124.73
20	b	603	CLA	CMD-C2D-C1D	8.17	139.12	124.73
20	C	514	CLA	CMD-C2D-C1D	8.16	139.10	124.73
20	c	514	CLA	CMD-C2D-C1D	8.16	139.10	124.73
20	H	101	CLA	CMD-C2D-C1D	8.12	139.03	124.73
20	a	407	CLA	CMD-C2D-C1D	8.12	139.03	124.73
20	A	407	CLA	CMD-C2D-C1D	8.12	139.02	124.73
20	B	606	CLA	CMD-C2D-C1D	8.11	139.01	124.73
20	C	510	CLA	CMD-C2D-C1D	8.11	139.00	124.73
20	c	510	CLA	CMD-C2D-C1D	8.10	139.00	124.73
20	h	101	CLA	CMD-C2D-C1D	8.10	139.00	124.73
20	b	612	CLA	C4A-NA-C1A	8.10	110.37	106.68
20	b	606	CLA	CMD-C2D-C1D	8.09	138.98	124.73
20	B	612	CLA	C4A-NA-C1A	8.08	110.36	106.68
20	A	404	CLA	CMD-C2D-C1D	8.04	138.90	124.73
20	B	615	CLA	CMD-C2D-C1D	8.04	138.89	124.73
20	C	503	CLA	CMD-C2D-C1D	8.04	138.89	124.73
20	b	615	CLA	CMD-C2D-C1D	8.04	138.88	124.73
20	a	404	CLA	CMD-C2D-C1D	8.03	138.87	124.73
20	c	503	CLA	CMD-C2D-C1D	8.03	138.86	124.73
22	C	518	BCR	C11-C12-C13	7.98	148.24	126.36
22	c	518	BCR	C11-C12-C13	7.98	148.23	126.36
20	b	611	CLA	CMD-C2D-C1D	7.94	138.71	124.73
20	B	611	CLA	CMD-C2D-C1D	7.94	138.71	124.73
20	c	505	CLA	CMD-C2D-C1D	7.94	138.70	124.73
20	C	505	CLA	CMD-C2D-C1D	7.91	138.66	124.73
27	B	604	F6C	C3B-C2B-C1B	-7.89	102.39	106.46
27	b	604	F6C	C3B-C2B-C1B	-7.83	102.42	106.46
20	C	504	CLA	CMD-C2D-C1D	7.83	138.52	124.73
20	c	504	CLA	CMD-C2D-C1D	7.83	138.52	124.73
27	B	604	F6C	O2D-CGD-CBD	7.81	124.88	111.23
27	b	604	F6C	O2D-CGD-CBD	7.81	124.88	111.23
20	D	403	CLA	CMD-C2D-C1D	7.67	138.24	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	d	404	CLA	CMD-C2D-C1D	7.66	138.21	124.73
20	d	403	CLA	CMD-C2D-C1D	7.66	138.21	124.73
20	D	404	CLA	CMD-C2D-C1D	7.65	138.20	124.73
20	B	614	CLA	CMD-C2D-C1D	7.55	138.01	124.73
20	C	512	CLA	C4A-NA-C1A	7.53	110.11	106.68
20	b	614	CLA	CMD-C2D-C1D	7.53	137.98	124.73
20	B	611	CLA	C4A-NA-C1A	7.52	110.11	106.68
20	c	512	CLA	C4A-NA-C1A	7.52	110.11	106.68
20	b	611	CLA	C4A-NA-C1A	7.51	110.11	106.68
20	C	506	CLA	C4A-NA-C1A	7.44	110.07	106.68
20	c	506	CLA	C4A-NA-C1A	7.43	110.07	106.68
20	C	506	CLA	O2D-CGD-CBD	7.42	124.20	111.23
20	c	506	CLA	O2D-CGD-CBD	7.42	124.20	111.23
20	b	601	CLA	CMD-C2D-C1D	7.39	137.75	124.73
27	B	613	F6C	CAA-C2A-C1A	-7.39	107.36	128.01
27	b	613	F6C	CAA-C2A-C1A	-7.38	107.38	128.01
20	B	601	CLA	CMD-C2D-C1D	7.38	137.73	124.73
20	B	605	CLA	CMD-C2D-C1D	7.31	137.60	124.73
20	b	605	CLA	CMD-C2D-C1D	7.31	137.59	124.73
20	c	512	CLA	CMD-C2D-C1D	7.30	137.59	124.73
20	C	512	CLA	CMD-C2D-C1D	7.29	137.56	124.73
22	B	618	BCR	C20-C19-C18	7.17	146.02	126.36
22	b	618	BCR	C20-C19-C18	7.17	146.01	126.36
20	C	502	CLA	CMD-C2D-C1D	7.15	137.33	124.73
20	c	502	CLA	CMD-C2D-C1D	7.15	137.32	124.73
29	D	401	CL7	C2C-C1C-NC	7.15	117.20	110.13
29	d	401	CL7	C2C-C1C-NC	7.13	117.18	110.13
20	C	503	CLA	C2C-C1C-NC	6.96	117.30	109.98
20	c	503	CLA	C2C-C1C-NC	6.94	117.27	109.98
20	D	404	CLA	O2D-CGD-CBD	6.91	123.32	111.23
20	b	614	CLA	C4A-NA-C1A	6.90	109.83	106.68
20	d	404	CLA	O2D-CGD-CBD	6.88	123.25	111.23
20	B	614	CLA	C4A-NA-C1A	6.87	109.81	106.68
20	b	615	CLA	C4A-NA-C1A	6.83	109.80	106.68
20	b	605	CLA	C4A-NA-C1A	6.82	109.79	106.68
20	B	615	CLA	C4A-NA-C1A	6.81	109.79	106.68
22	A	408	BCR	C20-C19-C18	6.80	145.01	126.36
22	a	408	BCR	C20-C19-C18	6.80	145.00	126.36
20	B	605	CLA	C4A-NA-C1A	6.79	109.78	106.68
20	C	513	CLA	CMD-C2D-C1D	6.67	136.48	124.73
20	c	513	CLA	CMD-C2D-C1D	6.67	136.48	124.73
22	C	518	BCR	C7-C8-C9	-6.66	116.38	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	h	101	CLA	C4A-NA-C1A	6.65	109.71	106.68
22	c	518	BCR	C7-C8-C9	-6.64	116.41	126.23
27	b	613	F6C	CMA-C3A-C4A	-6.61	113.09	124.73
27	B	613	F6C	CMA-C3A-C4A	-6.60	113.11	124.73
20	b	610	CLA	C2C-C1C-NC	6.59	116.90	109.98
20	a	405	CLA	C2C-C1C-NC	6.57	116.88	109.98
20	H	101	CLA	C4A-NA-C1A	6.57	109.68	106.68
20	B	612	CLA	O2D-CGD-CBD	6.55	122.67	111.23
20	B	610	CLA	C2C-C1C-NC	6.54	116.86	109.98
20	b	612	CLA	O2D-CGD-CBD	6.53	122.65	111.23
20	A	405	CLA	C2C-C1C-NC	6.53	116.84	109.98
20	C	503	CLA	C4A-NA-C1A	6.50	109.65	106.68
20	b	608	CLA	CMD-C2D-C1D	6.50	136.18	124.73
20	B	608	CLA	C4A-NA-C1A	6.49	109.64	106.68
20	c	511	CLA	O2D-CGD-CBD	6.48	122.56	111.23
27	C	508	F6C	CAA-C2A-C1A	-6.48	109.92	128.01
27	c	508	F6C	CAA-C2A-C1A	-6.47	109.93	128.01
22	B	617	BCR	C20-C19-C18	6.47	144.11	126.36
20	b	608	CLA	C4A-NA-C1A	6.47	109.63	106.68
20	c	509	CLA	CMD-C2D-C1D	6.47	136.12	124.73
20	C	511	CLA	O2D-CGD-CBD	6.47	122.53	111.23
20	B	608	CLA	CMD-C2D-C1D	6.47	136.11	124.73
20	B	610	CLA	O2D-CGD-CBD	6.46	122.53	111.23
20	C	509	CLA	CMD-C2D-C1D	6.46	136.11	124.73
20	b	610	CLA	O2D-CGD-CBD	6.46	122.52	111.23
20	c	503	CLA	C4A-NA-C1A	6.46	109.63	106.68
22	b	617	BCR	C20-C19-C18	6.46	144.07	126.36
20	C	513	CLA	C2C-C1C-NC	6.43	116.74	109.98
20	b	601	CLA	O2D-CGD-CBD	6.43	122.47	111.23
20	B	601	CLA	O2D-CGD-CBD	6.41	122.44	111.23
20	c	513	CLA	C2C-C1C-NC	6.40	116.71	109.98
20	h	101	CLA	O2D-CGD-CBD	6.39	122.39	111.23
20	a	405	CLA	C1C-C2C-C3C	-6.38	100.27	106.98
20	H	101	CLA	O2D-CGD-CBD	6.37	122.37	111.23
20	d	403	CLA	C1D-ND-C4D	-6.36	101.85	106.31
20	A	405	CLA	C1C-C2C-C3C	-6.36	100.29	106.98
20	C	510	CLA	O2D-CGD-CBD	6.36	122.34	111.23
20	c	510	CLA	O2D-CGD-CBD	6.36	122.34	111.23
20	D	403	CLA	C1D-ND-C4D	-6.36	101.85	106.31
20	D	403	CLA	C2D-C1D-ND	6.35	116.41	110.13
20	d	403	CLA	C2D-C1D-ND	6.33	116.39	110.13
27	b	613	F6C	C2C-C1C-NC	6.28	116.84	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	D	403	CLA	C4A-NA-C1A	6.26	109.54	106.68
20	d	403	CLA	C4A-NA-C1A	6.26	109.53	106.68
20	C	506	CLA	C2C-C1C-NC	6.26	116.56	109.98
27	B	613	F6C	C2C-C1C-NC	6.26	116.82	110.33
20	c	506	CLA	C2C-C1C-NC	6.24	116.54	109.98
20	C	507	CLA	C2C-C1C-NC	6.23	116.52	109.98
20	C	510	CLA	O2A-CGA-O1A	-6.22	108.06	123.63
20	c	510	CLA	O2A-CGA-O1A	-6.22	108.08	123.63
20	c	507	CLA	C2C-C1C-NC	6.21	116.50	109.98
20	B	609	CLA	CMD-C2D-C1D	6.18	135.61	124.73
20	C	503	CLA	O2D-CGD-CBD	6.17	122.02	111.23
20	c	503	CLA	O2D-CGD-CBD	6.17	122.01	111.23
20	B	609	CLA	C2C-C1C-NC	6.17	116.46	109.98
20	b	609	CLA	C2C-C1C-NC	6.16	116.45	109.98
20	B	612	CLA	C2D-C1D-ND	6.16	116.22	110.13
20	b	609	CLA	CMD-C2D-C1D	6.15	135.56	124.73
20	b	612	CLA	C2D-C1D-ND	6.15	116.21	110.13
20	B	605	CLA	C2C-C1C-NC	6.15	116.44	109.98
20	C	512	CLA	C1C-C2C-C3C	-6.15	100.52	106.98
20	c	512	CLA	C1C-C2C-C3C	-6.14	100.52	106.98
20	b	605	CLA	C2C-C1C-NC	6.14	116.43	109.98
27	B	604	F6C	C1D-ND-C4D	-6.13	103.88	106.68
27	b	604	F6C	C1A-C2A-C3A	-6.12	100.53	106.97
20	C	505	CLA	C4A-NA-C1A	6.11	109.47	106.68
27	b	604	F6C	C1D-ND-C4D	-6.10	103.89	106.68
20	b	615	CLA	C3D-C2D-C1D	-6.10	97.50	105.83
20	B	610	CLA	C1C-C2C-C3C	-6.10	100.56	106.98
20	b	610	CLA	C1C-C2C-C3C	-6.10	100.57	106.98
20	B	615	CLA	C3D-C2D-C1D	-6.09	97.52	105.83
27	B	604	F6C	C1A-C2A-C3A	-6.09	100.56	106.97
20	c	505	CLA	C4A-NA-C1A	6.08	109.45	106.68
20	B	601	CLA	C2C-C1C-NC	6.02	116.31	109.98
20	b	601	CLA	C2C-C1C-NC	6.02	116.31	109.98
20	C	511	CLA	C1C-C2C-C3C	-6.00	100.67	106.98
20	b	615	CLA	C2D-C1D-ND	5.99	116.06	110.13
20	b	615	CLA	O2D-CGD-CBD	5.99	121.70	111.23
20	c	511	CLA	C1C-C2C-C3C	-5.98	100.69	106.98
20	B	615	CLA	C2D-C1D-ND	5.98	116.05	110.13
20	B	615	CLA	O2D-CGD-CBD	5.97	121.67	111.23
20	c	502	CLA	C3B-C2B-C1B	-5.97	100.14	107.17
20	A	405	CLA	C4A-NA-C1A	5.95	109.39	106.68
20	C	502	CLA	C3B-C2B-C1B	-5.95	100.16	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	c	512	CLA	C2D-C1D-ND	5.94	116.00	110.13
20	C	512	CLA	C2D-C1D-ND	5.93	116.00	110.13
20	b	608	CLA	C2C-C1C-NC	5.92	116.20	109.98
20	B	610	CLA	C3D-C2D-C1D	-5.92	97.75	105.83
20	b	610	CLA	C3D-C2D-C1D	-5.92	97.75	105.83
20	C	511	CLA	C2C-C1C-NC	5.91	116.19	109.98
20	b	609	CLA	C1C-C2C-C3C	-5.91	100.76	106.98
20	c	502	CLA	C4A-NA-C1A	5.91	109.38	106.68
22	C	515	BCR	C24-C23-C22	-5.91	117.49	126.23
20	B	614	CLA	O2D-CGD-CBD	5.91	121.56	111.23
20	B	608	CLA	C2C-C1C-NC	5.91	116.19	109.98
22	c	515	BCR	C24-C23-C22	-5.90	117.51	126.23
20	b	614	CLA	O2D-CGD-CBD	5.89	121.53	111.23
27	B	607	F6C	CAA-C2A-C1A	-5.89	111.55	128.01
20	C	511	CLA	C4A-NA-C1A	5.88	109.36	106.68
20	c	511	CLA	C2C-C1C-NC	5.88	116.16	109.98
20	B	609	CLA	C1C-C2C-C3C	-5.87	100.80	106.98
27	b	607	F6C	CAA-C2A-C1A	-5.87	111.60	128.01
20	A	405	CLA	O2A-CGA-O1A	-5.86	108.97	123.63
20	d	403	CLA	O2A-CGA-O1A	-5.84	109.01	123.63
20	C	504	CLA	O2D-CGD-CBD	5.84	121.44	111.23
20	D	403	CLA	O2A-CGA-O1A	-5.84	109.03	123.63
20	a	405	CLA	O2A-CGA-O1A	-5.84	109.03	123.63
20	a	405	CLA	C4A-NA-C1A	5.83	109.34	106.68
20	C	505	CLA	O2D-CGD-CBD	5.83	121.43	111.23
20	B	608	CLA	O2D-CGD-CBD	5.82	121.41	111.23
20	c	504	CLA	O2D-CGD-CBD	5.82	121.40	111.23
20	c	505	CLA	O2D-CGD-CBD	5.81	121.39	111.23
20	b	609	CLA	O2D-CGD-CBD	5.81	121.39	111.23
20	B	609	CLA	O2D-CGD-CBD	5.81	121.39	111.23
20	b	608	CLA	C2D-C1D-ND	5.81	115.88	110.13
20	B	612	CLA	CMD-C2D-C1D	5.81	134.96	124.73
20	b	608	CLA	O2D-CGD-CBD	5.81	121.38	111.23
20	b	612	CLA	CMD-C2D-C1D	5.81	134.95	124.73
20	C	514	CLA	C3B-C2B-C1B	-5.80	100.33	107.17
20	C	502	CLA	C4A-NA-C1A	5.80	109.33	106.68
20	b	602	CLA	C1D-ND-C4D	-5.80	102.24	106.31
20	c	514	CLA	C3B-C2B-C1B	-5.79	100.34	107.17
20	a	407	CLA	C2C-C1C-NC	5.78	116.06	109.98
20	B	606	CLA	C2C-C1C-NC	5.78	116.06	109.98
20	a	404	CLA	C2C-C1C-NC	5.78	116.05	109.98
20	c	511	CLA	C4A-NA-C1A	5.78	109.31	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	A	407	CLA	C2C-C1C-NC	5.78	116.05	109.98
20	b	606	CLA	C2C-C1C-NC	5.77	116.04	109.98
20	B	608	CLA	C2D-C1D-ND	5.76	115.83	110.13
20	B	610	CLA	C2D-C1D-ND	5.73	115.80	110.13
20	b	609	CLA	C1D-ND-C4D	-5.73	102.29	106.31
20	A	404	CLA	C2C-C1C-NC	5.73	116.00	109.98
20	B	602	CLA	C1D-ND-C4D	-5.72	102.30	106.31
20	B	609	CLA	C2D-C1D-ND	5.72	115.78	110.13
20	c	504	CLA	C2C-C1C-NC	5.72	115.99	109.98
20	b	610	CLA	C2D-C1D-ND	5.71	115.78	110.13
20	B	603	CLA	C2C-C1C-NC	5.70	115.97	109.98
20	C	504	CLA	C2C-C1C-NC	5.70	115.97	109.98
20	b	603	CLA	C2C-C1C-NC	5.70	115.97	109.98
20	b	609	CLA	C2D-C1D-ND	5.70	115.77	110.13
20	B	609	CLA	C1D-ND-C4D	-5.69	102.32	106.31
20	b	615	CLA	C2C-C1C-NC	5.68	115.95	109.98
20	C	512	CLA	C2C-C1C-NC	5.68	115.94	109.98
22	C	518	BCR	C15-C14-C13	5.67	158.10	127.72
20	C	512	CLA	O2D-CGD-CBD	5.67	121.14	111.23
20	B	615	CLA	C2C-C1C-NC	5.66	115.93	109.98
22	c	518	BCR	C15-C14-C13	5.66	158.03	127.72
20	B	609	CLA	C4A-NA-C1A	5.65	109.26	106.68
20	c	512	CLA	O2D-CGD-CBD	5.65	121.10	111.23
20	b	615	CLA	C1C-C2C-C3C	-5.64	101.04	106.98
20	B	615	CLA	C1C-C2C-C3C	-5.63	101.06	106.98
20	c	509	CLA	C2D-C1D-ND	5.63	115.70	110.13
20	c	512	CLA	C2C-C1C-NC	5.63	115.89	109.98
27	b	613	F6C	C1C-C2C-C3C	-5.62	100.38	106.82
20	C	509	CLA	C2D-C1D-ND	5.62	115.69	110.13
27	B	613	F6C	C1C-C2C-C3C	-5.61	100.39	106.82
20	C	513	CLA	C1C-C2C-C3C	-5.61	101.08	106.98
20	B	605	CLA	C2D-C1D-ND	5.61	115.67	110.13
20	c	513	CLA	C4A-NA-C1A	5.60	109.23	106.68
20	c	513	CLA	C1C-C2C-C3C	-5.60	101.09	106.98
20	C	513	CLA	C4A-NA-C1A	5.59	109.23	106.68
20	b	605	CLA	C2D-C1D-ND	5.59	115.66	110.13
20	b	614	CLA	C3D-C2D-C1D	-5.58	98.22	105.83
27	b	607	F6C	C1A-C2A-C3A	-5.57	101.11	106.97
27	B	607	F6C	C1A-C2A-C3A	-5.57	101.11	106.97
20	B	614	CLA	C3D-C2D-C1D	-5.56	98.24	105.83
20	d	403	CLA	C3D-C2D-C1D	-5.55	98.25	105.83
20	D	403	CLA	C3D-C2D-C1D	-5.55	98.26	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	a	404	CLA	C1D-ND-C4D	-5.54	102.42	106.31
20	B	603	CLA	C1D-ND-C4D	-5.54	102.43	106.31
20	b	603	CLA	C1D-ND-C4D	-5.52	102.44	106.31
20	B	602	CLA	C2C-C1C-NC	5.52	115.78	109.98
20	c	509	CLA	C3D-C2D-C1D	-5.52	98.30	105.83
20	C	509	CLA	C3D-C2D-C1D	-5.51	98.31	105.83
20	A	404	CLA	C1D-ND-C4D	-5.51	102.45	106.31
20	B	611	CLA	C3D-C2D-C1D	-5.50	98.32	105.83
20	b	612	CLA	C3B-C2B-C1B	-5.50	100.69	107.17
20	b	611	CLA	C3D-C2D-C1D	-5.50	98.33	105.83
20	b	602	CLA	C2C-C1C-NC	5.50	115.75	109.98
27	c	508	F6C	C2C-C1C-NC	5.50	116.03	110.33
27	c	508	F6C	C1A-C2A-C3A	-5.49	101.19	106.97
20	c	512	CLA	C3D-C2D-C1D	-5.49	98.34	105.83
20	c	504	CLA	C1C-C2C-C3C	-5.49	101.21	106.98
27	B	607	F6C	C2C-C1C-NC	5.48	116.01	110.33
27	C	508	F6C	C2C-C1C-NC	5.48	116.01	110.33
20	B	610	CLA	C4A-NA-C1A	5.48	109.18	106.68
20	C	504	CLA	C1C-C2C-C3C	-5.48	101.22	106.98
20	B	612	CLA	C3B-C2B-C1B	-5.48	100.71	107.17
20	b	609	CLA	C4A-NA-C1A	5.48	109.18	106.68
20	C	512	CLA	C3D-C2D-C1D	-5.48	98.36	105.83
20	b	610	CLA	C4A-NA-C1A	5.48	109.18	106.68
20	c	509	CLA	O2A-CGA-O1A	-5.47	109.94	123.63
20	D	404	CLA	C2C-C1C-NC	5.47	115.72	109.98
20	b	606	CLA	C1D-ND-C4D	-5.46	102.48	106.31
20	C	509	CLA	O2A-CGA-O1A	-5.46	109.97	123.63
27	C	508	F6C	C1A-C2A-C3A	-5.46	101.22	106.97
20	C	502	CLA	C2C-C1C-NC	5.45	115.70	109.98
27	b	607	F6C	C2C-C1C-NC	5.44	115.97	110.33
20	c	507	CLA	O2D-CGD-CBD	5.44	120.74	111.23
20	C	507	CLA	O2D-CGD-CBD	5.43	120.72	111.23
20	c	507	CLA	C3B-C2B-C1B	-5.43	100.77	107.17
20	C	505	CLA	C2C-C1C-NC	5.43	115.68	109.98
20	C	507	CLA	C3B-C2B-C1B	-5.43	100.77	107.17
20	c	502	CLA	C2C-C1C-NC	5.43	115.68	109.98
20	c	505	CLA	C3D-C2D-C1D	-5.42	98.43	105.83
27	b	613	F6C	C3D-C2D-C1D	-5.42	97.98	105.83
20	c	506	CLA	O2A-CGA-O1A	-5.42	110.08	123.63
20	d	404	CLA	C2C-C1C-NC	5.42	115.67	109.98
20	B	610	CLA	O2A-CGA-O1A	-5.41	110.10	123.63
20	b	611	CLA	C2C-C1C-NC	5.41	115.66	109.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	b	602	CLA	C3B-C2B-C1B	-5.40	100.80	107.17
20	C	506	CLA	O2A-CGA-O1A	-5.40	110.11	123.63
20	B	611	CLA	C2C-C1C-NC	5.40	115.66	109.98
20	b	608	CLA	C3D-C2D-C1D	-5.40	98.46	105.83
20	B	609	CLA	C3B-C2B-C1B	-5.40	100.80	107.17
27	B	613	F6C	C3D-C2D-C1D	-5.40	98.01	105.83
20	b	609	CLA	C3B-C2B-C1B	-5.40	100.81	107.17
20	b	610	CLA	O2A-CGA-O1A	-5.39	110.13	123.63
20	B	605	CLA	C3D-C2D-C1D	-5.39	98.47	105.83
20	B	606	CLA	C1D-ND-C4D	-5.39	102.53	106.31
20	C	505	CLA	C3D-C2D-C1D	-5.39	98.47	105.83
20	A	407	CLA	C1D-ND-C4D	-5.39	102.53	106.31
20	B	602	CLA	C3B-C2B-C1B	-5.39	100.82	107.17
20	H	101	CLA	C3D-C2D-C1D	-5.39	98.48	105.83
20	B	608	CLA	C3D-C2D-C1D	-5.38	98.48	105.83
20	h	101	CLA	C3D-C2D-C1D	-5.38	98.48	105.83
20	b	605	CLA	C3D-C2D-C1D	-5.38	98.49	105.83
20	b	615	CLA	C3B-C2B-C1B	-5.38	100.83	107.17
20	h	101	CLA	C2C-C1C-NC	5.38	115.63	109.98
20	c	505	CLA	C2C-C1C-NC	5.38	115.63	109.98
20	c	504	CLA	C3B-C2B-C1B	-5.37	100.84	107.17
20	H	101	CLA	C2C-C1C-NC	5.36	115.61	109.98
20	B	615	CLA	C3B-C2B-C1B	-5.36	100.86	107.17
20	a	407	CLA	C1D-ND-C4D	-5.35	102.56	106.31
20	c	507	CLA	O2A-C1-C2	5.35	128.70	108.11
20	C	510	CLA	C3D-C2D-C1D	-5.35	98.53	105.83
20	C	507	CLA	C1C-C2C-C3C	-5.35	101.35	106.98
20	c	506	CLA	C1C-C2C-C3C	-5.35	101.35	106.98
20	c	510	CLA	C2C-C1C-NC	5.35	115.60	109.98
20	C	504	CLA	C3B-C2B-C1B	-5.35	100.86	107.17
20	C	506	CLA	C1C-C2C-C3C	-5.35	101.36	106.98
20	C	507	CLA	O2A-C1-C2	5.35	128.68	108.11
20	b	603	CLA	O2D-CGD-CBD	5.34	120.57	111.23
20	c	513	CLA	C3B-C2B-C1B	-5.34	100.87	107.17
20	C	513	CLA	C3B-C2B-C1B	-5.34	100.88	107.17
20	A	407	CLA	O2D-CGD-CBD	5.34	120.56	111.23
20	C	510	CLA	C2C-C1C-NC	5.33	115.58	109.98
20	c	507	CLA	C1C-C2C-C3C	-5.33	101.37	106.98
20	a	407	CLA	C1C-C2C-C3C	-5.33	101.37	106.98
20	a	407	CLA	O2D-CGD-CBD	5.33	120.55	111.23
20	D	403	CLA	C1C-C2C-C3C	-5.33	101.38	106.98
20	c	510	CLA	C3D-C2D-C1D	-5.32	98.57	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	B	603	CLA	O2D-CGD-CBD	5.32	120.53	111.23
20	C	504	CLA	C3D-C2D-C1D	-5.32	98.57	105.83
20	a	404	CLA	C1C-C2C-C3C	-5.31	101.39	106.98
20	c	504	CLA	C3D-C2D-C1D	-5.30	98.60	105.83
20	d	403	CLA	C1C-C2C-C3C	-5.30	101.40	106.98
20	a	405	CLA	C3D-C2D-C1D	-5.30	98.60	105.83
20	A	407	CLA	C1C-C2C-C3C	-5.30	101.41	106.98
20	b	606	CLA	C1C-C2C-C3C	-5.29	101.42	106.98
20	B	601	CLA	C1C-C2C-C3C	-5.29	101.42	106.98
20	D	403	CLA	C2C-C1C-NC	5.29	115.54	109.98
20	b	603	CLA	C3B-C2B-C1B	-5.28	100.94	107.17
20	b	601	CLA	C1C-C2C-C3C	-5.28	101.42	106.98
20	B	603	CLA	C1C-C2C-C3C	-5.28	101.43	106.98
20	c	503	CLA	C1C-C2C-C3C	-5.28	101.43	106.98
20	A	405	CLA	C3D-C2D-C1D	-5.28	98.63	105.83
20	B	606	CLA	C1C-C2C-C3C	-5.27	101.44	106.98
20	c	512	CLA	C1D-ND-C4D	-5.27	102.61	106.31
20	d	403	CLA	C2C-C1C-NC	5.27	115.52	109.98
20	D	404	CLA	C3D-C2D-C1D	-5.26	98.65	105.83
20	d	404	CLA	C3D-C2D-C1D	-5.26	98.65	105.83
20	C	512	CLA	C1D-ND-C4D	-5.26	102.62	106.31
20	A	404	CLA	C1C-C2C-C3C	-5.26	101.45	106.98
20	b	601	CLA	C3D-C2D-C1D	-5.26	98.65	105.83
20	D	404	CLA	C2D-C1D-ND	5.26	115.33	110.13
20	d	404	CLA	C2D-C1D-ND	5.26	115.33	110.13
20	B	612	CLA	C1D-ND-C4D	-5.26	102.62	106.31
20	C	503	CLA	C1C-C2C-C3C	-5.26	101.45	106.98
20	b	603	CLA	C1C-C2C-C3C	-5.25	101.46	106.98
20	b	602	CLA	C2D-C1D-ND	5.25	115.32	110.13
20	B	601	CLA	C3D-C2D-C1D	-5.25	98.67	105.83
20	B	603	CLA	C3B-C2B-C1B	-5.24	100.99	107.17
20	b	612	CLA	C1D-ND-C4D	-5.24	102.64	106.31
27	B	607	F6C	O2D-CGD-CBD	5.24	120.39	111.23
27	b	607	F6C	O2D-CGD-CBD	5.24	120.39	111.23
20	B	602	CLA	C2D-C1D-ND	5.23	115.30	110.13
20	B	602	CLA	C1C-C2C-C3C	-5.21	101.50	106.98
20	B	612	CLA	C3D-C2D-C1D	-5.20	98.74	105.83
20	B	614	CLA	C2D-C1D-ND	5.20	115.27	110.13
20	H	101	CLA	C2D-C1D-ND	5.20	115.27	110.13
20	b	602	CLA	C1C-C2C-C3C	-5.19	101.52	106.98
20	b	612	CLA	C3D-C2D-C1D	-5.19	98.75	105.83
20	b	614	CLA	C2D-C1D-ND	5.18	115.26	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	c	504	CLA	O2A-CGA-O1A	-5.18	110.66	123.63
20	c	514	CLA	C3D-C2D-C1D	-5.18	98.76	105.83
20	C	504	CLA	O2A-CGA-O1A	-5.18	110.67	123.63
20	D	404	CLA	C1D-ND-C4D	-5.18	102.68	106.31
20	d	404	CLA	C1D-ND-C4D	-5.18	102.68	106.31
20	h	101	CLA	C2D-C1D-ND	5.18	115.25	110.13
20	c	502	CLA	O2D-CGD-CBD	5.17	120.28	111.23
20	C	503	CLA	C3D-C2D-C1D	-5.17	98.77	105.83
27	B	613	F6C	O2A-CGA-O1A	-5.17	110.69	123.63
20	c	503	CLA	C3D-C2D-C1D	-5.17	98.77	105.83
23	L	102	SQD	O47-C7-C8	5.17	122.66	111.48
20	C	502	CLA	C1C-C2C-C3C	-5.17	101.55	106.98
20	B	602	CLA	C3D-C2D-C1D	-5.17	98.78	105.83
20	B	606	CLA	O2D-CGD-CBD	5.16	120.25	111.23
20	b	606	CLA	C3B-C2B-C1B	-5.16	101.09	107.17
20	b	602	CLA	C3D-C2D-C1D	-5.16	98.79	105.83
20	C	502	CLA	O2D-CGD-CBD	5.16	120.25	111.23
20	C	514	CLA	C3D-C2D-C1D	-5.16	98.79	105.83
20	c	502	CLA	C1C-C2C-C3C	-5.15	101.56	106.98
20	b	606	CLA	O2D-CGD-CBD	5.15	120.24	111.23
23	l	102	SQD	O47-C7-C8	5.15	122.62	111.48
27	b	613	F6C	O2A-CGA-O1A	-5.15	110.76	123.63
20	A	404	CLA	C3B-C2B-C1B	-5.14	101.11	107.17
20	B	606	CLA	C3B-C2B-C1B	-5.14	101.11	107.17
20	a	404	CLA	C3B-C2B-C1B	-5.14	101.11	107.17
27	c	508	F6C	O2D-CGD-CBD	5.13	120.20	111.23
20	c	505	CLA	C2D-C1D-ND	5.13	115.20	110.13
24	A	410	PL9	C7-C3-C2	-5.13	117.34	123.39
24	a	410	PL9	C7-C3-C2	-5.13	117.34	123.39
20	A	407	CLA	C3D-C2D-C1D	-5.13	98.83	105.83
20	C	505	CLA	C2D-C1D-ND	5.12	115.19	110.13
27	C	508	F6C	O2D-CGD-CBD	5.12	120.18	111.23
20	b	605	CLA	C3B-C2B-C1B	-5.11	101.14	107.17
20	B	605	CLA	C3B-C2B-C1B	-5.11	101.15	107.17
20	C	502	CLA	C3D-C2D-C1D	-5.10	98.86	105.83
20	a	407	CLA	C3D-C2D-C1D	-5.10	98.86	105.83
20	A	407	CLA	C3B-C2B-C1B	-5.10	101.16	107.17
20	b	614	CLA	C2C-C1C-NC	5.10	115.34	109.98
20	B	612	CLA	C2C-C1C-NC	5.10	115.34	109.98
20	a	404	CLA	C3D-C2D-C1D	-5.10	98.88	105.83
20	a	407	CLA	C3B-C2B-C1B	-5.09	101.17	107.17
27	B	604	F6C	C1-C2-C3	-5.09	117.86	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	A	404	CLA	C3D-C2D-C1D	-5.09	98.89	105.83
20	c	502	CLA	C3D-C2D-C1D	-5.09	98.89	105.83
20	C	506	CLA	C2D-C1D-ND	5.08	115.16	110.13
20	c	507	CLA	C4A-NA-C1A	5.08	109.00	106.68
20	b	612	CLA	C2C-C1C-NC	5.08	115.32	109.98
20	a	404	CLA	C2D-C1D-ND	5.07	115.15	110.13
20	A	407	CLA	C2D-C1D-ND	5.07	115.15	110.13
27	b	604	F6C	C1-C2-C3	-5.07	117.89	126.20
20	c	506	CLA	C2D-C1D-ND	5.07	115.14	110.13
20	B	614	CLA	C2C-C1C-NC	5.07	115.31	109.98
20	B	606	CLA	C3D-C2D-C1D	-5.07	98.91	105.83
27	B	613	F6C	C1A-C2A-C3A	-5.07	101.63	106.97
27	b	613	F6C	C1A-C2A-C3A	-5.07	101.63	106.97
20	A	404	CLA	C2D-C1D-ND	5.07	115.14	110.13
20	B	615	CLA	C1D-ND-C4D	-5.06	102.76	106.31
20	c	505	CLA	O2A-CGA-O1A	-5.06	110.97	123.63
20	B	603	CLA	C3D-C2D-C1D	-5.06	98.93	105.83
20	C	505	CLA	O2A-CGA-O1A	-5.06	110.98	123.63
20	B	601	CLA	C2D-C1D-ND	5.06	115.13	110.13
20	b	606	CLA	C3D-C2D-C1D	-5.06	98.93	105.83
20	B	603	CLA	C2D-C1D-ND	5.05	115.13	110.13
20	C	505	CLA	C1C-C2C-C3C	-5.05	101.67	106.98
27	B	607	F6C	O2A-CGA-O1A	-5.05	111.00	123.63
20	b	601	CLA	C2D-C1D-ND	5.05	115.12	110.13
20	B	605	CLA	C1D-ND-C4D	-5.04	102.78	106.31
20	C	507	CLA	C4A-NA-C1A	5.04	108.98	106.68
27	b	607	F6C	O2A-CGA-O1A	-5.04	111.03	123.63
20	b	615	CLA	C1D-ND-C4D	-5.03	102.78	106.31
20	b	606	CLA	C2D-C1D-ND	5.03	115.11	110.13
20	C	513	CLA	O2D-CGD-CBD	5.03	120.03	111.23
20	C	509	CLA	O2D-CGD-CBD	5.03	120.02	111.23
20	H	101	CLA	C1D-ND-C4D	-5.03	102.78	106.31
20	B	606	CLA	C2D-C1D-ND	5.03	115.10	110.13
20	a	407	CLA	C2D-C1D-ND	5.02	115.10	110.13
20	c	513	CLA	O2D-CGD-CBD	5.02	120.01	111.23
20	c	509	CLA	O2D-CGD-CBD	5.02	120.01	111.23
20	b	603	CLA	C2D-C1D-ND	5.02	115.09	110.13
20	b	603	CLA	C3D-C2D-C1D	-5.02	98.98	105.83
20	B	608	CLA	C1C-C2C-C3C	-5.02	101.70	106.98
20	c	505	CLA	C1C-C2C-C3C	-5.01	101.71	106.98
20	b	608	CLA	C1C-C2C-C3C	-5.01	101.71	106.98
20	C	513	CLA	O2A-CGA-O1A	-5.01	110.45	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	c	508	F6C	O2A-CGA-O1A	-5.00	111.12	123.63
20	c	513	CLA	O2A-CGA-O1A	-5.00	110.47	123.33
20	a	404	CLA	O2A-CGA-O1A	-5.00	111.13	123.63
27	C	508	F6C	O2A-CGA-O1A	-4.99	111.14	123.63
20	A	404	CLA	O2A-CGA-O1A	-4.99	111.15	123.63
20	b	606	CLA	O2A-CGA-O1A	-4.99	111.15	123.63
20	b	605	CLA	C1D-ND-C4D	-4.99	102.81	106.31
20	c	509	CLA	C4A-NA-C1A	4.98	108.95	106.68
20	h	101	CLA	C1D-ND-C4D	-4.98	102.82	106.31
20	C	512	CLA	O2A-CGA-O1A	-4.98	111.17	123.63
20	b	603	CLA	O2A-CGA-O1A	-4.98	111.17	123.63
20	c	512	CLA	O2A-CGA-O1A	-4.98	111.17	123.63
20	B	603	CLA	O2A-CGA-O1A	-4.98	111.18	123.63
20	B	606	CLA	O2A-CGA-O1A	-4.98	111.18	123.63
20	c	506	CLA	C3B-C2B-C1B	-4.97	101.31	107.17
20	C	504	CLA	C2D-C1D-ND	4.97	115.05	110.13
20	c	504	CLA	C2D-C1D-ND	4.97	115.04	110.13
29	d	401	CL7	C3B-C2B-C1B	-4.97	101.32	107.17
20	C	506	CLA	C3B-C2B-C1B	-4.95	101.33	107.17
20	d	403	CLA	CAA-C2A-C3A	-4.95	99.62	113.00
27	C	508	F6C	C2D-C1D-ND	4.95	115.18	109.98
27	c	508	F6C	C2D-C1D-ND	4.95	115.18	109.98
20	D	403	CLA	CAA-C2A-C3A	-4.95	99.63	113.00
29	D	401	CL7	C3B-C2B-C1B	-4.95	101.34	107.17
23	l	102	SQD	O7-S-C6	4.94	114.14	106.76
20	C	511	CLA	O2A-CGA-O1A	-4.94	111.26	123.63
20	c	502	CLA	O2A-CGA-O1A	-4.94	111.26	123.63
23	L	102	SQD	O7-S-C6	4.94	114.14	106.76
20	C	502	CLA	O2A-CGA-O1A	-4.94	111.27	123.63
20	a	404	CLA	O2D-CGD-CBD	4.94	119.87	111.23
20	C	511	CLA	C3D-C2D-C1D	-4.94	99.09	105.83
20	B	602	CLA	O2D-CGD-CBD	4.94	119.87	111.23
20	A	404	CLA	O2D-CGD-CBD	4.94	119.86	111.23
20	c	511	CLA	C3D-C2D-C1D	-4.93	99.10	105.83
20	b	602	CLA	O2D-CGD-CBD	4.93	119.86	111.23
27	B	604	F6C	C2C-C1C-NC	4.93	115.44	110.33
20	C	506	CLA	CMD-C2D-C1D	4.93	133.41	124.73
20	c	511	CLA	O2A-CGA-O1A	-4.92	111.31	123.63
20	a	405	CLA	C3B-C2B-C1B	-4.92	101.37	107.17
20	A	405	CLA	C3B-C2B-C1B	-4.92	101.37	107.17
20	c	506	CLA	CMD-C2D-C1D	4.92	133.39	124.73
20	A	405	CLA	O2A-CGA-CBA	4.92	126.83	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	d	404	CLA	C3B-C2B-C1B	-4.92	101.37	107.17
20	C	502	CLA	C2B-C1B-NB	4.92	115.42	110.33
20	c	502	CLA	C2B-C1B-NB	4.92	115.42	110.33
20	D	404	CLA	C3B-C2B-C1B	-4.92	101.37	107.17
20	a	405	CLA	O2A-CGA-CBA	4.91	126.82	111.83
20	b	609	CLA	O2A-CGA-O1A	-4.91	110.70	123.33
20	B	609	CLA	O2A-CGA-O1A	-4.91	110.71	123.33
27	b	604	F6C	C2C-C1C-NC	4.91	115.41	110.33
20	C	514	CLA	C2D-C1D-ND	4.90	114.98	110.13
24	A	410	PL9	C7-C3-C4	4.90	120.95	116.91
27	b	613	F6C	C1D-ND-C4D	-4.90	104.44	106.68
20	C	502	CLA	C2D-C1D-ND	4.89	114.97	110.13
27	B	613	F6C	C1D-ND-C4D	-4.89	104.45	106.68
20	b	614	CLA	C1C-C2C-C3C	-4.89	101.83	106.98
20	c	514	CLA	C2D-C1D-ND	4.89	114.97	110.13
20	C	509	CLA	C4A-NA-C1A	4.89	108.91	106.68
20	B	602	CLA	O2A-CGA-O1A	-4.89	111.40	123.63
20	b	602	CLA	O2A-CGA-O1A	-4.89	111.40	123.63
20	D	403	CLA	C3B-C2B-C1B	-4.89	101.41	107.17
29	d	401	CL7	O2A-CGA-O1A	-4.89	111.41	123.63
27	b	604	F6C	O2A-CGA-O1A	-4.88	111.41	123.63
20	B	602	CLA	C4A-NA-C1A	4.88	108.91	106.68
20	d	403	CLA	C3B-C2B-C1B	-4.88	101.41	107.17
20	B	614	CLA	C1C-C2C-C3C	-4.88	101.85	106.98
24	a	410	PL9	C7-C3-C4	4.88	120.93	116.91
29	D	401	CL7	O2A-CGA-O1A	-4.88	111.43	123.63
20	d	403	CLA	O2A-C1-C2	4.87	126.86	108.11
20	c	502	CLA	C2D-C1D-ND	4.87	114.94	110.13
27	B	604	F6C	O2A-CGA-O1A	-4.86	111.46	123.63
20	B	614	CLA	O2A-CGA-O1A	-4.86	111.46	123.63
20	c	510	CLA	C1C-C2C-C3C	-4.86	101.86	106.98
20	D	403	CLA	O2A-C1-C2	4.86	126.82	108.11
20	b	614	CLA	O2A-CGA-O1A	-4.86	111.47	123.63
20	C	510	CLA	C1C-C2C-C3C	-4.86	101.87	106.98
27	B	607	F6C	C2D-C1D-ND	4.85	115.08	109.98
20	C	514	CLA	O2D-CGD-CBD	4.85	119.71	111.23
20	B	612	CLA	O2A-CGA-O1A	-4.85	111.50	123.63
20	b	612	CLA	O2A-CGA-O1A	-4.85	111.50	123.63
27	b	607	F6C	C2D-C1D-ND	4.85	115.08	109.98
20	b	602	CLA	C4A-NA-C1A	4.85	108.89	106.68
20	c	514	CLA	O2D-CGD-CBD	4.83	119.68	111.23
20	C	512	CLA	C3B-C2B-C1B	-4.83	101.47	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	a	405	CLA	O2D-CGD-CBD	4.83	119.68	111.23
20	D	403	CLA	O2A-CGA-CBA	4.83	126.56	111.83
20	B	601	CLA	C3B-C2B-C1B	-4.83	101.48	107.17
20	d	403	CLA	O2A-CGA-CBA	4.83	126.56	111.83
20	h	101	CLA	C3B-C2B-C1B	-4.83	101.48	107.17
20	c	512	CLA	C3B-C2B-C1B	-4.82	101.49	107.17
24	d	406	PL9	C7-C3-C4	4.82	120.88	116.91
20	H	101	CLA	C3B-C2B-C1B	-4.81	101.50	107.17
20	h	101	CLA	O2A-CGA-O1A	-4.81	111.59	123.63
20	b	601	CLA	C3B-C2B-C1B	-4.81	101.50	107.17
20	C	514	CLA	C2C-C1C-NC	4.80	115.03	109.98
20	A	405	CLA	O2D-CGD-CBD	4.80	119.62	111.23
20	H	101	CLA	O2A-CGA-O1A	-4.80	111.62	123.63
27	c	508	F6C	C3D-C2D-C1D	-4.80	98.89	105.83
27	C	508	F6C	C3D-C2D-C1D	-4.79	98.89	105.83
27	B	604	F6C	C3A-C4A-NA	4.79	114.87	110.13
20	c	514	CLA	C2C-C1C-NC	4.79	115.01	109.98
27	b	604	F6C	C3A-C4A-NA	4.79	114.86	110.13
20	b	610	CLA	C1D-ND-C4D	-4.77	102.96	106.31
20	B	610	CLA	C1D-ND-C4D	-4.76	102.97	106.31
20	B	609	CLA	C3D-C2D-C1D	-4.76	99.33	105.83
20	a	407	CLA	O2A-CGA-O1A	-4.76	111.72	123.63
27	B	607	F6C	C3D-C2D-C1D	-4.76	98.94	105.83
20	A	407	CLA	O2A-CGA-O1A	-4.75	111.73	123.63
20	b	601	CLA	O2A-CGA-O1A	-4.75	111.10	123.33
20	B	601	CLA	O2A-CGA-O1A	-4.75	111.11	123.33
27	B	613	F6C	CMA-C3A-C2A	-4.74	113.32	126.15
24	D	406	PL9	C7-C3-C4	4.74	120.82	116.91
27	b	607	F6C	C3D-C2D-C1D	-4.74	98.97	105.83
20	c	511	CLA	C3B-C2B-C1B	-4.73	101.59	107.17
20	B	611	CLA	C2D-C1D-ND	4.73	114.81	110.13
20	b	609	CLA	C3D-C2D-C1D	-4.73	99.38	105.83
27	b	613	F6C	CMA-C3A-C2A	-4.72	113.37	126.15
20	C	511	CLA	C3B-C2B-C1B	-4.72	101.60	107.17
25	a	411	BCT	O2-C-O1	4.72	131.75	119.68
25	A	411	BCT	O2-C-O1	4.72	131.75	119.68
27	B	607	F6C	C1C-C2C-C3C	-4.72	101.41	106.82
20	c	514	CLA	C1D-ND-C4D	-4.71	103.00	106.31
26	d	407	LHG	O7-C7-C8	4.71	121.68	111.48
20	b	611	CLA	C2D-C1D-ND	4.71	114.79	110.13
20	C	514	CLA	C1D-ND-C4D	-4.71	103.00	106.31
26	D	407	LHG	O7-C7-C8	4.71	121.67	111.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	408	BCR	C24-C23-C22	-4.70	119.28	126.23
20	C	513	CLA	C2D-C1D-ND	4.70	114.77	110.13
20	c	513	CLA	C3D-C2D-C1D	-4.69	99.43	105.83
27	b	607	F6C	C1C-C2C-C3C	-4.69	101.44	106.82
22	a	408	BCR	C24-C23-C22	-4.69	119.30	126.23
20	C	509	CLA	C2C-C1C-NC	4.68	114.90	109.98
20	c	509	CLA	C2C-C1C-NC	4.68	114.90	109.98
20	c	514	CLA	C1C-C2C-C3C	-4.68	102.06	106.98
20	C	507	CLA	C3D-C2D-C1D	-4.68	99.44	105.83
20	C	514	CLA	C1C-C2C-C3C	-4.68	102.06	106.98
20	C	513	CLA	C3D-C2D-C1D	-4.68	99.45	105.83
27	c	508	F6C	C1C-C2C-C3C	-4.68	101.46	106.82
20	b	614	CLA	C3B-C2B-C1B	-4.68	101.66	107.17
20	c	513	CLA	C2D-C1D-ND	4.67	114.75	110.13
20	c	507	CLA	C3D-C2D-C1D	-4.67	99.45	105.83
20	D	404	CLA	C1C-C2C-C3C	-4.67	102.07	106.98
20	B	614	CLA	C3B-C2B-C1B	-4.67	101.67	107.17
20	B	610	CLA	C3B-C2B-C1B	-4.67	101.67	107.17
27	C	508	F6C	C1C-C2C-C3C	-4.66	101.48	106.82
20	B	612	CLA	C1C-C2C-C3C	-4.65	102.09	106.98
20	d	404	CLA	C1C-C2C-C3C	-4.65	102.09	106.98
20	b	610	CLA	C3B-C2B-C1B	-4.64	101.69	107.17
20	c	514	CLA	C2B-C1B-NB	4.64	115.14	110.33
20	B	605	CLA	O2D-CGD-CBD	4.64	119.33	111.23
20	b	605	CLA	O2D-CGD-CBD	4.64	119.33	111.23
20	a	405	CLA	C2D-C1D-ND	4.63	114.71	110.13
20	b	612	CLA	C1C-C2C-C3C	-4.62	102.12	106.98
20	b	611	CLA	C1C-C2C-C3C	-4.62	102.12	106.98
20	c	507	CLA	O2A-CGA-O1A	-4.61	112.09	123.63
20	A	405	CLA	C2D-C1D-ND	4.61	114.69	110.13
20	C	507	CLA	O2A-CGA-O1A	-4.61	112.09	123.63
20	B	611	CLA	O2A-C1-C2	4.61	125.85	108.11
20	b	611	CLA	O2A-C1-C2	4.61	125.83	108.11
20	C	514	CLA	C2B-C1B-NB	4.60	115.10	110.33
20	c	504	CLA	O2A-CGA-CBA	4.60	125.87	111.83
27	b	604	F6C	CHA-C4D-ND	4.59	137.44	133.05
20	c	507	CLA	C2B-C1B-NB	4.59	115.09	110.33
20	C	504	CLA	O2A-CGA-CBA	4.59	125.84	111.83
20	B	611	CLA	C1C-C2C-C3C	-4.59	102.15	106.98
20	C	514	CLA	C4A-NA-C1A	4.58	108.77	106.68
20	c	514	CLA	C4A-NA-C1A	4.58	108.77	106.68
27	B	604	F6C	CHA-C4D-ND	4.58	137.43	133.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	507	CLA	C2B-C1B-NB	4.57	115.07	110.33
20	D	404	CLA	O2A-CGA-O1A	-4.57	111.57	123.33
20	d	404	CLA	O2A-CGA-O1A	-4.57	111.57	123.33
20	d	404	CLA	C4A-NA-C1A	4.56	108.76	106.68
29	D	401	CL7	O2D-CGD-CBD	4.55	119.19	111.23
29	d	401	CL7	O2D-CGD-CBD	4.55	119.18	111.23
20	D	404	CLA	O2D-CGD-O1D	-4.55	115.00	123.85
20	C	510	CLA	C2D-C1D-ND	4.54	114.62	110.13
20	d	404	CLA	O2D-CGD-O1D	-4.54	115.01	123.85
20	c	510	CLA	C2D-C1D-ND	4.53	114.61	110.13
20	D	404	CLA	C4A-NA-C1A	4.52	108.74	106.68
21	A	406	PHO	C4D-CHA-CBD	-4.52	106.29	108.45
27	b	613	F6C	C2D-C1D-ND	4.51	114.72	109.98
27	B	613	F6C	O2D-CGD-CBD	4.51	119.12	111.23
27	b	613	F6C	O2D-CGD-CBD	4.50	119.09	111.23
20	C	505	CLA	C1-C2-C3	-4.49	119.49	126.76
22	C	515	BCR	C3-C4-C5	-4.49	106.05	114.06
27	B	613	F6C	C2D-C1D-ND	4.49	114.69	109.98
22	c	515	BCR	C3-C4-C5	-4.48	106.06	114.06
20	c	505	CLA	C1-C2-C3	-4.48	119.51	126.76
29	d	401	CL7	C2D-C1D-ND	4.48	114.97	110.33
27	b	613	F6C	C4A-NA-C1A	4.46	109.44	106.31
29	D	401	CL7	C2D-C1D-ND	4.45	114.94	110.33
20	B	603	CLA	C4A-NA-C1A	4.45	108.71	106.68
22	b	618	BCR	C15-C14-C13	-4.45	121.04	127.28
20	C	514	CLA	O2A-CGA-O1A	-4.44	111.91	123.33
20	B	610	CLA	CAA-C2A-C3A	-4.44	101.00	113.00
20	b	603	CLA	C4A-NA-C1A	4.44	108.70	106.68
20	b	610	CLA	CAA-C2A-C3A	-4.44	101.00	113.00
22	B	618	BCR	C15-C14-C13	-4.44	121.06	127.28
29	D	401	CL7	C1C-C2C-C3C	-4.44	100.39	106.97
29	d	401	CL7	C1C-C2C-C3C	-4.43	100.39	106.97
20	C	506	CLA	C3D-C2D-C1D	-4.43	99.79	105.83
20	c	506	CLA	C3D-C2D-C1D	-4.43	99.79	105.83
20	B	608	CLA	O2A-CGA-O1A	-4.42	112.57	123.63
20	b	608	CLA	O2A-CGA-O1A	-4.42	112.57	123.63
20	c	514	CLA	O2A-CGA-O1A	-4.42	111.97	123.33
27	B	613	F6C	C4A-NA-C1A	4.42	109.41	106.31
21	a	406	PHO	C4D-CHA-CBD	-4.41	106.34	108.45
20	b	611	CLA	O2D-CGD-CBD	4.41	118.94	111.23
20	C	512	CLA	O2A-CGA-CBA	4.41	125.28	111.83
20	c	512	CLA	O2A-CGA-CBA	4.41	125.28	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	506	CLA	O2D-CGD-O1D	-4.40	115.28	123.85
20	c	506	CLA	O2D-CGD-O1D	-4.40	115.28	123.85
20	b	605	CLA	O2A-CGA-O1A	-4.40	112.62	123.63
20	b	610	CLA	CHD-C1D-ND	-4.40	118.61	124.80
20	B	611	CLA	O2D-CGD-CBD	4.40	118.92	111.23
20	c	505	CLA	C3B-C2B-C1B	-4.39	101.99	107.17
20	B	605	CLA	O2A-CGA-O1A	-4.39	112.64	123.63
20	C	505	CLA	C3B-C2B-C1B	-4.39	101.99	107.17
20	c	511	CLA	C1D-ND-C4D	-4.39	103.23	106.31
20	B	610	CLA	CHD-C1D-ND	-4.38	118.64	124.80
20	C	510	CLA	C4A-NA-C1A	4.38	108.68	106.68
26	a	412	LHG	O7-C7-C8	4.38	120.95	111.48
20	a	404	CLA	C4A-NA-C1A	4.38	108.68	106.68
26	A	412	LHG	O7-C7-C8	4.37	120.94	111.48
20	C	513	CLA	C1D-ND-C4D	-4.37	103.25	106.31
20	C	505	CLA	C1D-ND-C4D	-4.36	103.25	106.31
20	c	511	CLA	C2D-C1D-ND	4.36	114.44	110.13
28	c	517	DGD	O3G-C3G-C2G	-4.36	100.22	110.82
20	h	101	CLA	CMB-C2B-C1B	4.35	132.05	125.42
20	D	403	CLA	CHD-C1D-ND	-4.35	118.67	124.80
28	C	517	DGD	O3G-C3G-C2G	-4.35	100.23	110.82
20	c	504	CLA	C4A-NA-C1A	4.35	108.66	106.68
20	c	506	CLA	O2A-CGA-CBA	4.35	125.09	111.83
20	H	101	CLA	CMB-C2B-C1B	4.35	132.03	125.42
20	C	506	CLA	O2A-CGA-CBA	4.34	125.08	111.83
20	c	510	CLA	C4A-NA-C1A	4.34	108.66	106.68
20	B	605	CLA	C1C-C2C-C3C	-4.34	102.41	106.98
20	b	608	CLA	C3B-C2B-C1B	-4.34	102.05	107.17
20	c	513	CLA	C1D-ND-C4D	-4.34	103.27	106.31
20	B	608	CLA	C3B-C2B-C1B	-4.33	102.06	107.17
20	d	403	CLA	CHD-C1D-ND	-4.33	118.70	124.80
20	c	505	CLA	C1D-ND-C4D	-4.33	103.27	106.31
20	b	605	CLA	C1C-C2C-C3C	-4.33	102.43	106.98
20	C	510	CLA	C3B-C2B-C1B	-4.32	102.08	107.17
20	A	404	CLA	C4A-NA-C1A	4.32	108.65	106.68
20	c	510	CLA	C3B-C2B-C1B	-4.32	102.08	107.17
20	B	615	CLA	O2A-CGA-O1A	-4.31	112.86	123.63
20	C	504	CLA	C4A-NA-C1A	4.30	108.64	106.68
20	C	503	CLA	C2D-C1D-ND	4.30	114.39	110.13
29	D	401	CL7	O2A-CGA-CBA	4.30	124.95	111.83
29	d	401	CL7	O2A-CGA-CBA	4.30	124.95	111.83
20	b	615	CLA	O2A-CGA-O1A	-4.30	112.87	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	c	503	CLA	C2D-C1D-ND	4.30	114.38	110.13
20	C	511	CLA	C2D-C1D-ND	4.30	114.38	110.13
20	C	511	CLA	C1D-ND-C4D	-4.28	103.31	106.31
21	d	402	PHO	C4D-CHA-CBD	-4.28	106.40	108.45
25	a	411	BCT	O3-C-O1	-4.28	108.74	119.68
25	A	411	BCT	O3-C-O1	-4.27	108.75	119.68
29	d	401	CL7	C2B-C1B-NB	4.27	114.75	110.33
29	D	401	CL7	C2B-C1B-NB	4.27	114.75	110.33
22	A	408	BCR	C38-C26-C25	-4.26	119.84	124.48
21	D	402	PHO	C4D-CHA-CBD	-4.25	106.42	108.45
20	C	503	CLA	C3B-C2B-C1B	-4.25	102.16	107.17
20	c	503	CLA	C3B-C2B-C1B	-4.24	102.17	107.17
20	a	405	CLA	C1D-ND-C4D	-4.24	103.34	106.31
20	c	503	CLA	O2A-CGA-O1A	-4.24	113.02	123.63
20	B	605	CLA	O2A-CGA-CBA	4.24	124.76	111.83
20	C	504	CLA	C1D-ND-C4D	-4.24	103.34	106.31
20	B	606	CLA	C4A-NA-C1A	4.24	108.61	106.68
30	M	101	LMG	O7-C10-C11	4.24	120.64	111.48
30	m	101	LMG	O7-C10-C11	4.24	120.64	111.48
20	C	503	CLA	O2A-CGA-O1A	-4.24	113.03	123.63
20	c	504	CLA	C1D-ND-C4D	-4.23	103.34	106.31
20	b	605	CLA	O2A-CGA-CBA	4.23	124.74	111.83
22	a	408	BCR	C38-C26-C25	-4.22	119.88	124.48
20	c	511	CLA	O2A-CGA-CBA	4.21	124.68	111.83
20	C	511	CLA	O2A-CGA-CBA	4.21	124.68	111.83
20	C	507	CLA	CHD-C1D-ND	-4.21	118.88	124.80
20	A	405	CLA	C1D-ND-C4D	-4.20	103.36	106.31
30	D	409	LMG	O7-C10-C11	4.20	120.57	111.48
22	c	518	BCR	C33-C5-C6	-4.20	119.91	124.48
20	c	509	CLA	C2B-C1B-NB	4.19	114.67	110.33
30	d	409	LMG	O7-C10-C11	4.19	120.53	111.48
20	C	509	CLA	C2B-C1B-NB	4.18	114.67	110.33
20	B	615	CLA	O2A-CGA-CBA	4.18	124.58	111.83
20	b	615	CLA	O2A-CGA-CBA	4.18	124.58	111.83
20	c	507	CLA	CHD-C1D-ND	-4.18	118.92	124.80
26	d	408	LHG	O7-C7-C8	4.17	120.51	111.48
20	b	606	CLA	C4A-NA-C1A	4.17	108.58	106.68
20	H	101	CLA	OBD-CAD-C3D	-4.16	118.68	128.42
26	D	408	LHG	O7-C7-C8	4.16	120.48	111.48
20	h	101	CLA	OBD-CAD-C3D	-4.16	118.70	128.42
22	C	518	BCR	C33-C5-C6	-4.14	119.96	124.48
28	C	516	DGD	O3G-C3G-C2G	-4.13	100.78	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	c	516	DGD	O3G-C3G-C2G	-4.12	100.79	110.82
20	c	506	CLA	C1D-ND-C4D	-4.12	103.42	106.31
20	c	506	CLA	C1-C2-C3	-4.12	119.45	126.20
21	A	406	PHO	CMB-C2B-C3B	4.12	132.91	124.68
20	C	506	CLA	C1-C2-C3	-4.11	119.46	126.20
20	C	506	CLA	C1D-ND-C4D	-4.11	103.43	106.31
21	a	406	PHO	CMB-C2B-C3B	4.11	132.90	124.68
20	B	603	CLA	O2A-CGA-CBA	4.11	124.36	111.83
20	B	610	CLA	C2B-C1B-NB	4.11	114.59	110.33
20	b	603	CLA	O2A-CGA-CBA	4.11	124.36	111.83
20	D	403	CLA	O2D-CGD-CBD	4.11	118.41	111.23
20	B	612	CLA	O2A-CGA-CBA	4.11	124.35	111.83
20	d	403	CLA	O2D-CGD-CBD	4.10	118.39	111.23
20	C	502	CLA	CHD-C1D-ND	-4.10	119.04	124.80
27	B	607	F6C	O2A-CGA-CBA	4.10	124.33	111.83
20	b	612	CLA	O2A-CGA-CBA	4.09	124.32	111.83
20	b	610	CLA	C2B-C1B-NB	4.09	114.57	110.33
27	b	607	F6C	O2A-CGA-CBA	4.09	124.30	111.83
20	c	502	CLA	CHD-C1D-ND	-4.08	119.06	124.80
20	B	605	CLA	C1-C2-C3	-4.08	119.52	126.20
27	B	604	F6C	C3D-C2D-C1D	-4.07	99.93	105.83
20	b	605	CLA	C1-C2-C3	-4.07	119.53	126.20
20	B	611	CLA	O2A-CGA-CBA	4.07	124.25	111.83
20	b	611	CLA	O2A-CGA-CBA	4.07	124.25	111.83
27	C	508	F6C	O2A-CGA-CBA	4.07	124.24	111.83
21	d	402	PHO	CMB-C2B-C3B	4.07	132.81	124.68
27	c	508	F6C	O2A-CGA-CBA	4.07	124.23	111.83
21	D	402	PHO	CMB-C2B-C3B	4.06	132.80	124.68
27	B	604	F6C	O2A-C1-C2	4.06	123.74	108.11
20	C	509	CLA	C3B-C2B-C1B	-4.06	102.39	107.17
27	b	604	F6C	C3D-C2D-C1D	-4.06	99.96	105.83
27	b	604	F6C	O2A-C1-C2	4.05	123.70	108.11
22	B	617	BCR	C1-C6-C5	-4.05	117.10	122.64
20	a	404	CLA	O2A-CGA-CBA	4.05	124.18	111.83
20	B	614	CLA	O2D-CGD-O1D	-4.05	115.97	123.85
20	A	404	CLA	O2A-CGA-CBA	4.05	124.17	111.83
20	B	614	CLA	C4-C3-C5	4.04	122.24	115.23
29	D	401	CL7	C1D-ND-C4D	-4.04	103.48	106.31
20	B	606	CLA	O2A-CGA-CBA	4.03	124.13	111.83
20	b	606	CLA	O2A-CGA-CBA	4.03	124.12	111.83
20	b	614	CLA	O2D-CGD-O1D	-4.03	116.00	123.85
20	b	614	CLA	C4-C3-C5	4.03	122.22	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	502	CLA	C1D-ND-C4D	-4.02	103.49	106.31
22	c	515	BCR	C4-C5-C6	-4.02	117.27	122.70
29	d	401	CL7	C1D-ND-C4D	-4.02	103.49	106.31
20	c	509	CLA	C3B-C2B-C1B	-4.02	102.43	107.17
20	C	504	CLA	C2B-C1B-NB	4.02	114.49	110.33
20	A	407	CLA	C4A-NA-C1A	4.01	108.51	106.68
22	C	515	BCR	C4-C5-C6	-4.01	117.28	122.70
22	b	617	BCR	C1-C6-C5	-4.01	117.16	122.64
20	B	611	CLA	O2A-CGA-O1A	-4.00	113.61	123.63
20	B	611	CLA	C1-C2-C3	-4.00	119.64	126.20
20	c	504	CLA	C2B-C1B-NB	4.00	114.47	110.33
27	B	604	F6C	CMA-C3A-C4A	-4.00	117.69	124.73
20	c	514	CLA	CHD-C1D-ND	-4.00	119.18	124.80
20	b	611	CLA	C1-C2-C3	-4.00	119.65	126.20
20	C	514	CLA	CHD-C1D-ND	-4.00	119.18	124.80
20	c	502	CLA	C1D-ND-C4D	-3.99	103.51	106.31
20	b	614	CLA	C1D-ND-C4D	-3.99	103.51	106.31
22	B	617	BCR	C24-C23-C22	-3.99	120.33	126.23
20	b	611	CLA	O2A-CGA-O1A	-3.99	113.65	123.63
27	b	604	F6C	CMA-C3A-C4A	-3.99	117.71	124.73
20	B	614	CLA	C1D-ND-C4D	-3.99	103.52	106.31
20	a	407	CLA	C4A-NA-C1A	3.97	108.49	106.68
20	c	513	CLA	O2D-CGD-O1D	-3.96	116.14	123.85
20	C	513	CLA	O2D-CGD-O1D	-3.96	116.15	123.85
22	b	617	BCR	C24-C23-C22	-3.96	120.38	126.23
26	D	407	LHG	C5-O7-C7	-3.94	108.37	117.80
20	b	608	CLA	C1D-ND-C4D	-3.93	103.55	106.31
20	B	601	CLA	C4A-NA-C1A	3.93	108.47	106.68
26	d	407	LHG	C5-O7-C7	-3.93	108.39	117.80
20	C	502	CLA	C1-C2-C3	-3.93	119.76	126.20
20	a	407	CLA	O2A-CGA-CBA	3.92	123.80	111.83
29	d	401	CL7	C3A-C4A-CHB	-3.92	117.90	123.66
20	A	407	CLA	O2A-CGA-CBA	3.92	123.78	111.83
27	b	613	F6C	CHA-C4D-ND	3.92	136.80	133.05
20	C	503	CLA	O2A-CGA-CBA	3.92	123.78	111.83
20	d	404	CLA	CAC-C3C-C4C	3.91	129.88	124.79
22	a	408	BCR	C7-C8-C9	-3.91	120.44	126.23
20	c	509	CLA	O2A-CGA-CBA	3.91	123.77	111.83
20	c	502	CLA	C1-C2-C3	-3.91	119.79	126.20
20	c	503	CLA	O2A-CGA-CBA	3.91	123.76	111.83
20	C	509	CLA	O2A-CGA-CBA	3.91	123.75	111.83
22	A	408	BCR	C7-C8-C9	-3.91	120.45	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D	401	CL7	C3A-C4A-CHB	-3.90	117.92	123.66
20	b	601	CLA	C4A-NA-C1A	3.90	108.46	106.68
20	h	101	CLA	C1C-C2C-C3C	-3.89	102.89	106.98
27	B	613	F6C	O2A-CGA-CBA	3.89	123.69	111.83
20	D	404	CLA	CAC-C3C-C4C	3.89	129.85	124.79
20	H	101	CLA	C1C-C2C-C3C	-3.88	102.90	106.98
27	B	613	F6C	CHA-C4D-ND	3.88	136.76	133.05
27	b	613	F6C	O2A-CGA-CBA	3.88	123.66	111.83
22	b	617	BCR	C15-C14-C13	-3.87	121.85	127.28
27	C	508	F6C	C4A-C3A-C2A	-3.87	101.23	106.97
20	a	407	CLA	C1-C2-C3	-3.86	120.51	126.76
22	B	617	BCR	C15-C14-C13	-3.86	121.87	127.28
20	B	601	CLA	C1D-ND-C4D	-3.85	103.61	106.31
20	A	407	CLA	C1-C2-C3	-3.85	120.53	126.76
20	b	601	CLA	C1D-ND-C4D	-3.85	103.61	106.31
20	B	608	CLA	C1D-ND-C4D	-3.85	103.61	106.31
20	C	509	CLA	C1D-ND-C4D	-3.85	103.61	106.31
22	A	408	BCR	C33-C5-C6	-3.84	120.29	124.48
27	c	508	F6C	C4A-C3A-C2A	-3.84	101.28	106.97
20	D	404	CLA	CHD-C1D-ND	-3.83	119.41	124.80
20	A	405	CLA	O2A-C1-C2	3.83	122.86	108.11
20	c	509	CLA	C1D-ND-C4D	-3.83	103.62	106.31
22	a	408	BCR	C33-C5-C6	-3.83	120.31	124.48
20	b	602	CLA	O2A-CGA-CBA	3.83	123.51	111.83
20	C	510	CLA	CMB-C2B-C1B	3.83	131.25	125.42
20	B	615	CLA	C2B-C1B-NB	3.83	114.30	110.33
20	B	610	CLA	O2A-C1-C2	3.83	122.83	108.11
20	b	610	CLA	O2A-C1-C2	3.82	122.83	108.11
20	B	602	CLA	O2A-CGA-CBA	3.82	123.49	111.83
20	a	405	CLA	O2A-C1-C2	3.82	122.81	108.11
20	d	404	CLA	CHD-C1D-ND	-3.82	119.43	124.80
27	B	607	F6C	C4A-C3A-C2A	-3.81	101.32	106.97
27	b	607	F6C	C4A-C3A-C2A	-3.81	101.32	106.97
32	h	102	RRX	C15-C16-C17	3.80	131.29	123.52
22	b	616	BCR	C7-C8-C9	-3.80	120.61	126.23
20	b	615	CLA	C2B-C1B-NB	3.80	114.27	110.33
20	c	510	CLA	CMB-C2B-C1B	3.80	131.20	125.42
32	H	102	RRX	C15-C16-C17	3.79	131.28	123.52
20	b	605	CLA	O2A-C1-C2	3.79	122.68	108.11
20	B	605	CLA	O2A-C1-C2	3.79	122.68	108.11
22	B	616	BCR	C7-C8-C9	-3.76	120.68	126.23
20	b	609	CLA	CHD-C1D-ND	-3.76	119.52	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	d	403	CLA	C2B-C1B-NB	3.75	114.21	110.33
20	B	609	CLA	CHD-C1D-ND	-3.75	119.53	124.80
20	b	615	CLA	C4-C3-C5	3.74	121.73	115.23
20	B	615	CLA	C4-C3-C5	3.74	121.73	115.23
20	D	403	CLA	C2B-C1B-NB	3.73	114.20	110.33
22	C	515	BCR	C38-C26-C25	-3.73	120.41	124.48
22	c	515	BCR	C38-C26-C25	-3.73	120.41	124.48
20	C	506	CLA	O2A-C1-C2	3.73	122.45	108.11
20	c	512	CLA	CHD-C1D-ND	-3.73	119.56	124.80
20	c	506	CLA	O2A-C1-C2	3.72	122.44	108.11
20	C	509	CLA	CMB-C2B-C3B	3.72	135.31	126.55
20	b	612	CLA	C2B-C1B-NB	3.72	114.18	110.33
32	h	102	RRX	C16-C15-C14	3.72	131.13	123.52
20	C	512	CLA	CHD-C1D-ND	-3.71	119.58	124.80
27	B	604	F6C	C4A-C3A-C2A	-3.71	101.47	106.97
20	c	509	CLA	CMB-C2B-C3B	3.71	135.27	126.55
32	H	102	RRX	C16-C15-C14	3.71	131.10	123.52
20	b	612	CLA	O2A-C1-C2	3.70	122.36	108.11
20	B	612	CLA	C2B-C1B-NB	3.70	114.17	110.33
20	B	612	CLA	O2A-C1-C2	3.70	122.35	108.11
20	c	512	CLA	O2A-C1-C2	3.70	122.35	108.11
20	C	512	CLA	O2A-C1-C2	3.70	122.33	108.11
27	b	604	F6C	C4A-C3A-C2A	-3.69	101.50	106.97
20	c	510	CLA	C1D-ND-C4D	-3.68	103.73	106.31
23	l	102	SQD	O9-S-O7	-3.68	101.85	113.82
23	L	102	SQD	O9-S-O7	-3.68	101.85	113.82
27	b	604	F6C	C2B-C3B-C4B	-3.68	104.56	106.46
27	B	604	F6C	C2B-C3B-C4B	-3.68	104.57	106.46
22	B	616	BCR	C1-C6-C5	-3.68	117.61	122.64
20	C	505	CLA	CHD-C1D-ND	-3.67	119.64	124.80
20	c	503	CLA	C1D-ND-C4D	-3.66	103.74	106.31
20	b	615	CLA	CMB-C2B-C1B	3.66	130.99	125.42
20	B	609	CLA	O2A-CGA-CBA	3.66	125.55	114.00
20	D	404	CLA	CAA-C2A-C3A	-3.65	103.13	113.00
20	B	615	CLA	CMB-C2B-C1B	3.65	130.98	125.42
20	C	510	CLA	C1D-ND-C4D	-3.65	103.75	106.31
22	b	616	BCR	C1-C6-C5	-3.65	117.65	122.64
27	B	604	F6C	CMD-C2D-C3D	-3.65	119.33	127.69
20	b	609	CLA	O2A-CGA-CBA	3.65	125.52	114.00
20	c	505	CLA	CHD-C1D-ND	-3.64	119.67	124.80
20	C	509	CLA	C1C-C2C-C3C	-3.64	103.15	106.98
20	c	503	CLA	O2A-C1-C2	3.64	122.13	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	b	614	CLA	O2A-CGA-CBA	3.64	122.94	111.83
20	C	503	CLA	O2A-C1-C2	3.64	122.10	108.11
20	B	614	CLA	O2A-CGA-CBA	3.63	122.92	111.83
20	a	405	CLA	C2B-C1B-NB	3.63	114.09	110.33
20	d	404	CLA	CAA-C2A-C3A	-3.63	103.19	113.00
20	A	405	CLA	C2B-C1B-NB	3.63	114.09	110.33
20	b	615	CLA	CHD-C1D-ND	-3.63	119.69	124.80
27	b	604	F6C	CMD-C2D-C3D	-3.63	119.37	127.69
20	B	615	CLA	CHD-C1D-ND	-3.62	119.71	124.80
22	b	618	BCR	C7-C8-C9	-3.61	120.89	126.23
27	B	607	F6C	C3A-C4A-NA	3.61	113.70	110.13
27	b	604	F6C	C1C-C2C-C3C	-3.61	102.69	106.82
27	C	508	F6C	C3A-C4A-NA	3.61	113.70	110.13
20	h	101	CLA	O2A-CGA-CBA	3.61	122.83	111.83
27	B	604	F6C	C1C-C2C-C3C	-3.61	102.69	106.82
20	C	503	CLA	C1D-ND-C4D	-3.60	103.78	106.31
20	c	507	CLA	CAC-C3C-C2C	3.60	134.17	127.56
27	b	607	F6C	C3A-C4A-NA	3.59	113.68	110.13
22	B	618	BCR	C7-C8-C9	-3.59	120.92	126.23
20	H	101	CLA	O2A-CGA-CBA	3.59	122.78	111.83
20	C	507	CLA	CAA-C2A-C3A	-3.59	103.30	113.00
20	C	507	CLA	CAC-C3C-C2C	3.59	134.15	127.56
20	c	507	CLA	CAA-C2A-C3A	-3.58	103.31	113.00
20	c	509	CLA	C1C-C2C-C3C	-3.58	103.21	106.98
20	d	404	CLA	CMA-C3A-C4A	3.58	121.39	111.77
20	C	505	CLA	O2A-CGA-CBA	3.58	122.75	111.83
20	B	612	CLA	O2D-CGD-O1D	-3.58	116.89	123.85
20	c	505	CLA	O2A-CGA-CBA	3.58	122.74	111.83
27	c	508	F6C	C3A-C4A-NA	3.58	113.67	110.13
20	b	608	CLA	C2B-C1B-NB	3.57	114.03	110.33
20	b	612	CLA	O2D-CGD-O1D	-3.57	116.90	123.85
20	D	404	CLA	CMA-C3A-C4A	3.57	121.36	111.77
20	A	405	CLA	CHD-C1D-ND	-3.56	119.80	124.80
20	B	608	CLA	C2B-C1B-NB	3.56	114.01	110.33
27	B	613	F6C	C3A-C4A-NA	3.55	113.64	110.13
27	B	613	F6C	C4A-C3A-C2A	-3.55	101.70	106.97
20	a	405	CLA	CHD-C1D-ND	-3.55	119.81	124.80
20	c	513	CLA	C2B-C1B-NB	3.55	114.01	110.33
20	C	504	CLA	CHD-C1D-ND	-3.55	119.81	124.80
20	c	504	CLA	CHD-C1D-ND	-3.55	119.81	124.80
20	C	505	CLA	C2B-C1B-NB	3.55	114.01	110.33
20	c	505	CLA	C2B-C1B-NB	3.54	114.00	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	513	CLA	C2B-C1B-NB	3.54	114.00	110.33
24	D	406	PL9	C7-C3-C2	-3.54	119.22	123.39
32	h	102	RRX	C37-C22-C21	-3.53	117.09	122.82
27	b	613	F6C	C4A-C3A-C2A	-3.53	101.73	106.97
20	B	612	CLA	CMC-C2C-C1C	3.53	130.55	125.03
24	d	406	PL9	C7-C3-C2	-3.53	119.23	123.39
20	b	612	CLA	C3C-C4C-NC	3.53	114.95	110.43
28	C	516	DGD	O6D-C1D-O3G	-3.53	101.71	110.04
20	A	407	CLA	CHD-C1D-ND	-3.52	119.84	124.80
32	H	102	RRX	C37-C22-C21	-3.52	117.11	122.82
20	B	609	CLA	O2D-CGD-O1D	-3.52	116.99	123.85
27	b	613	F6C	C3A-C4A-NA	3.52	113.61	110.13
20	b	612	CLA	CMC-C2C-C1C	3.52	130.53	125.03
28	c	516	DGD	O6D-C1D-O3G	-3.52	101.73	110.04
20	b	602	CLA	CHD-C1D-ND	-3.52	119.85	124.80
20	C	507	CLA	C2D-C1D-ND	3.52	113.61	110.13
20	b	609	CLA	O2D-CGD-O1D	-3.52	117.00	123.85
20	b	603	CLA	CHD-C1D-ND	-3.52	119.85	124.80
27	b	604	F6C	O2A-CGA-CBA	3.51	122.55	111.83
20	B	612	CLA	C3C-C4C-NC	3.51	114.93	110.43
20	B	602	CLA	CHD-C1D-ND	-3.51	119.86	124.80
20	B	603	CLA	CHD-C1D-ND	-3.51	119.86	124.80
27	B	604	F6C	OMB-CMB-C2B	-3.51	117.71	125.62
20	a	404	CLA	CHD-C1D-ND	-3.50	119.87	124.80
20	c	507	CLA	C2D-C1D-ND	3.50	113.59	110.13
20	b	606	CLA	CHD-C1D-ND	-3.50	119.87	124.80
20	b	601	CLA	C2B-C1B-NB	3.50	113.96	110.33
20	a	407	CLA	CHD-C1D-ND	-3.50	119.88	124.80
27	B	604	F6C	O2A-CGA-CBA	3.50	122.49	111.83
27	b	604	F6C	OMB-CMB-C2B	-3.49	117.73	125.62
22	b	617	BCR	C4-C5-C6	-3.49	117.98	122.70
20	B	608	CLA	O2A-CGA-CBA	3.49	122.48	111.83
20	h	101	CLA	O2A-C1-C2	3.49	121.54	108.11
20	H	101	CLA	O2A-C1-C2	3.49	121.54	108.11
20	A	404	CLA	CHD-C1D-ND	-3.49	119.89	124.80
20	C	507	CLA	O2A-CGA-CBA	3.49	122.47	111.83
32	h	102	RRX	C34-C9-C10	-3.49	117.17	122.82
22	B	617	BCR	C4-C5-C6	-3.49	117.99	122.70
20	c	507	CLA	O2A-CGA-CBA	3.48	122.45	111.83
27	B	604	F6C	C2D-C1D-ND	3.48	113.64	109.98
20	b	608	CLA	O2A-CGA-CBA	3.48	122.44	111.83
20	B	601	CLA	O2D-CGD-O1D	-3.48	117.08	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	B	601	CLA	C2B-C1B-NB	3.47	113.93	110.33
20	c	511	CLA	CMD-C2D-C3D	-3.47	119.72	127.69
20	B	606	CLA	CHD-C1D-ND	-3.47	119.92	124.80
32	H	102	RRX	C34-C9-C10	-3.47	117.19	122.82
20	b	601	CLA	O2D-CGD-O1D	-3.47	117.09	123.85
26	a	412	LHG	C5-O7-C7	-3.47	109.50	117.80
20	C	512	CLA	C1-C2-C3	-3.46	121.16	126.76
26	A	412	LHG	C5-O7-C7	-3.46	109.50	117.80
27	B	604	F6C	O1D-CGD-CBD	-3.46	117.69	124.52
21	A	406	PHO	C2B-C1B-NB	-3.46	106.93	109.43
27	b	604	F6C	C2D-C1D-ND	3.46	113.61	109.98
20	c	512	CLA	C1-C2-C3	-3.46	121.17	126.76
21	a	406	PHO	C2B-C1B-NB	-3.45	106.93	109.43
20	C	513	CLA	O2A-CGA-CBA	3.45	124.91	114.00
20	A	404	CLA	C1-C2-C3	-3.45	120.54	126.20
20	C	511	CLA	C2B-C1B-NB	3.45	113.91	110.33
20	C	511	CLA	CMD-C2D-C3D	-3.45	119.78	127.69
27	B	604	F6C	CHB-C4A-C3A	-3.44	118.32	125.49
20	a	404	CLA	C1-C2-C3	-3.44	120.55	126.20
27	b	604	F6C	O1D-CGD-CBD	-3.44	117.72	124.52
27	b	604	F6C	CHB-C4A-C3A	-3.44	118.33	125.49
20	c	513	CLA	O2A-CGA-CBA	3.44	124.86	114.00
22	B	616	BCR	C24-C23-C22	-3.44	121.15	126.23
21	d	402	PHO	CBC-CAC-C3C	3.43	117.79	112.87
21	D	402	PHO	CBC-CAC-C3C	3.43	117.79	112.87
20	c	511	CLA	C2B-C1B-NB	3.43	113.88	110.33
22	b	616	BCR	C24-C23-C22	-3.43	121.17	126.23
27	b	604	F6C	C4A-NA-C1A	3.42	108.71	106.31
20	C	511	CLA	C4D-C3D-CAD	3.42	111.82	108.11
20	c	511	CLA	C4D-C3D-CAD	3.41	111.81	108.11
20	h	101	CLA	C4D-C3D-CAD	3.41	111.81	108.11
20	c	509	CLA	CAA-C2A-C3A	-3.41	103.78	113.00
20	B	602	CLA	O2A-C1-C2	3.41	121.23	108.11
20	c	506	CLA	C3C-C4C-NC	3.41	114.80	110.43
27	c	508	F6C	O2A-C1-C2	3.41	121.22	108.11
22	B	616	BCR	C36-C18-C17	-3.40	117.30	122.82
20	B	614	CLA	C2B-C1B-NB	3.40	113.85	110.33
20	c	511	CLA	CHD-C1D-ND	-3.40	120.02	124.80
27	C	508	F6C	C1-C2-C3	-3.40	120.62	126.20
20	C	509	CLA	CAA-C2A-C3A	-3.40	103.81	113.00
20	b	602	CLA	O2A-C1-C2	3.40	121.19	108.11
22	b	616	BCR	C36-C18-C17	-3.40	117.31	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	506	CLA	C3C-C4C-NC	3.40	114.78	110.43
20	b	614	CLA	C2B-C1B-NB	3.40	113.85	110.33
27	c	508	F6C	C1-C2-C3	-3.40	120.63	126.20
27	C	508	F6C	O2A-C1-C2	3.40	121.18	108.11
27	b	607	F6C	O2A-C1-C2	3.40	121.18	108.11
20	c	510	CLA	O2D-CGD-O1D	-3.39	117.24	123.85
27	B	607	F6C	O2A-C1-C2	3.39	121.17	108.11
20	h	101	CLA	O2D-CGD-O1D	-3.39	117.24	123.85
27	b	613	F6C	C1-C2-C3	-3.39	120.64	126.20
20	H	101	CLA	C4D-C3D-CAD	3.39	111.79	108.11
20	H	101	CLA	O2D-CGD-O1D	-3.39	117.25	123.85
27	B	604	F6C	C4A-NA-C1A	3.38	108.69	106.31
20	C	510	CLA	O2D-CGD-O1D	-3.38	117.26	123.85
26	a	412	LHG	O8-C23-C24	3.38	122.13	111.83
29	D	401	CL7	C1-O2A-CGA	3.38	124.82	116.65
26	A	412	LHG	O8-C23-C24	3.38	122.13	111.83
20	C	505	CLA	CMA-C3A-C4A	3.37	120.84	111.77
20	C	511	CLA	CHD-C1D-ND	-3.37	120.06	124.80
26	D	407	LHG	O8-C23-C24	3.37	122.11	111.83
27	B	613	F6C	C1-C2-C3	-3.37	120.68	126.20
29	d	401	CL7	C1-O2A-CGA	3.37	124.80	116.65
20	c	505	CLA	CMA-C3A-C4A	3.36	120.81	111.77
20	c	510	CLA	O2A-CGA-CBA	3.36	122.08	111.83
20	a	407	CLA	O2A-C1-C2	3.35	121.01	108.11
20	C	505	CLA	O2D-CGD-O1D	-3.35	117.32	123.85
20	c	505	CLA	O2D-CGD-O1D	-3.35	117.32	123.85
20	A	407	CLA	O2A-C1-C2	3.35	121.00	108.11
26	d	407	LHG	O8-C23-C24	3.35	122.05	111.83
20	C	510	CLA	O2A-CGA-CBA	3.35	122.05	111.83
20	A	404	CLA	O2A-C1-C2	3.34	120.97	108.11
20	a	404	CLA	O2A-C1-C2	3.34	120.97	108.11
20	b	610	CLA	O2A-CGA-CBA	3.34	122.01	111.83
20	B	610	CLA	O2A-CGA-CBA	3.34	122.00	111.83
20	b	615	CLA	O2D-CGD-O1D	-3.33	117.36	123.85
28	C	517	DGD	O6D-C1D-O3G	-3.33	102.18	110.04
27	B	607	F6C	C4A-NA-C1A	3.33	108.65	106.31
20	C	511	CLA	O2A-C1-C2	3.32	120.90	108.11
20	c	511	CLA	O2A-C1-C2	3.32	120.90	108.11
20	c	510	CLA	CAA-CBA-CGA	3.32	122.64	113.21
28	c	517	DGD	O6D-C1D-O3G	-3.32	102.20	110.04
20	C	510	CLA	CAA-CBA-CGA	3.32	122.63	113.21
27	b	604	F6C	O2D-CGD-O1D	-3.32	117.39	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	511	CLA	O2D-CGD-O1D	-3.31	117.40	123.85
20	c	511	CLA	O2D-CGD-O1D	-3.31	117.41	123.85
27	C	508	F6C	C4A-NA-C1A	3.31	108.63	106.31
27	c	508	F6C	C4A-NA-C1A	3.31	108.63	106.31
20	C	503	CLA	C1-C2-C3	-3.31	120.78	126.20
27	b	613	F6C	O2D-CGD-O1D	-3.30	117.42	123.85
20	B	615	CLA	O2D-CGD-O1D	-3.30	117.42	123.85
27	B	613	F6C	O2D-CGD-O1D	-3.30	117.42	123.85
20	B	606	CLA	O2A-C1-C2	3.30	120.80	108.11
20	B	602	CLA	C2B-C1B-NB	3.30	113.75	110.33
20	b	606	CLA	O2A-C1-C2	3.30	120.79	108.11
27	B	604	F6C	O2D-CGD-O1D	-3.30	117.43	123.85
20	b	606	CLA	C1-C2-C3	-3.29	120.80	126.20
20	c	503	CLA	C1-C2-C3	-3.29	120.80	126.20
20	B	606	CLA	C1-C2-C3	-3.29	120.81	126.20
21	A	406	PHO	C1-C2-C3	3.29	131.58	126.20
21	a	406	PHO	C1-C2-C3	3.29	131.58	126.20
27	b	607	F6C	C4A-NA-C1A	3.28	108.62	106.31
20	C	509	CLA	CHD-C1D-ND	-3.28	120.18	124.80
27	b	607	F6C	C1-C2-C3	-3.28	120.82	126.20
20	B	611	CLA	CAC-C3C-C4C	3.28	129.06	124.79
20	b	602	CLA	C2B-C1B-NB	3.28	113.73	110.33
26	L	101	LHG	O7-C7-C8	3.28	118.57	111.48
20	c	509	CLA	CHD-C1D-ND	-3.28	120.19	124.80
27	B	607	F6C	C1-C2-C3	-3.28	120.83	126.20
26	l	101	LHG	O7-C7-C8	3.28	118.57	111.48
20	b	603	CLA	C1-C2-C3	-3.27	120.83	126.20
20	C	507	CLA	C1D-ND-C4D	-3.27	104.02	106.31
20	c	510	CLA	CHD-C1D-ND	-3.27	120.20	124.80
20	B	603	CLA	C1-C2-C3	-3.27	120.85	126.20
20	b	611	CLA	CAC-C3C-C4C	3.26	129.03	124.79
20	B	603	CLA	O2A-C1-C2	3.25	120.62	108.11
20	c	506	CLA	C2B-C1B-NB	3.25	113.69	110.33
20	c	507	CLA	C1D-ND-C4D	-3.24	104.04	106.31
20	b	603	CLA	O2A-C1-C2	3.24	120.59	108.11
20	C	510	CLA	CHD-C1D-ND	-3.24	120.24	124.80
20	b	614	CLA	CMC-C2C-C1C	3.24	130.10	125.03
20	C	506	CLA	C2B-C1B-NB	3.24	113.69	110.33
20	b	615	CLA	OBD-CAD-C3D	-3.24	120.84	128.42
20	C	513	CLA	CMA-C3A-C4A	3.24	120.47	111.77
21	A	406	PHO	O1D-CGD-CBD	3.23	129.62	124.72
20	B	614	CLA	CMC-C2C-C1C	3.23	130.08	125.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	c	513	CLA	CMA-C3A-C4A	3.23	120.46	111.77
20	b	603	CLA	C3D-C4D-ND	3.23	115.24	109.99
20	d	403	CLA	C3D-C4D-ND	3.23	115.24	109.99
21	a	406	PHO	O1D-CGD-CBD	3.23	129.62	124.72
20	B	603	CLA	C3D-C4D-ND	3.22	115.23	109.99
20	B	610	CLA	O2D-CGD-O1D	-3.22	117.58	123.85
20	B	615	CLA	OBD-CAD-C3D	-3.22	120.90	128.42
21	d	402	PHO	O1D-CGD-CBD	3.22	129.60	124.72
20	b	611	CLA	C2B-C1B-NB	3.21	113.66	110.33
20	D	403	CLA	C3D-C4D-ND	3.21	115.21	109.99
20	B	611	CLA	C2B-C1B-NB	3.20	113.65	110.33
20	b	610	CLA	O2D-CGD-O1D	-3.20	117.62	123.85
27	b	607	F6C	CHA-C1A-C2A	-3.20	121.81	130.41
20	b	602	CLA	C3D-C4D-ND	3.20	115.19	109.99
20	c	502	CLA	O2D-CGD-O1D	-3.20	117.63	123.85
21	D	402	PHO	O1D-CGD-CBD	3.20	129.57	124.72
26	l	101	LHG	O8-C23-C24	3.19	121.57	111.83
20	H	101	CLA	CHD-C1D-ND	-3.19	120.31	124.80
20	C	514	CLA	CMC-C2C-C1C	3.19	130.01	125.03
20	C	502	CLA	O2D-CGD-O1D	-3.19	117.65	123.85
27	B	607	F6C	CHA-C1A-C2A	-3.19	121.84	130.41
20	C	504	CLA	O2A-C1-C2	3.19	120.37	108.11
24	D	406	PL9	C7-C8-C9	-3.19	121.34	126.83
26	L	101	LHG	O8-C23-C24	3.18	121.55	111.83
24	d	406	PL9	C7-C8-C9	-3.18	121.35	126.83
20	B	614	CLA	CHD-C1D-ND	-3.18	120.33	124.80
20	a	404	CLA	C3D-C4D-ND	3.18	115.15	109.99
20	C	507	CLA	CMC-C2C-C3C	3.18	134.74	126.15
20	c	504	CLA	O2A-C1-C2	3.18	120.33	108.11
20	c	514	CLA	CMC-C2C-C1C	3.18	130.00	125.03
27	C	508	F6C	C3D-C4D-ND	3.18	115.16	109.93
20	b	605	CLA	CAA-C2A-C3A	-3.18	104.42	113.00
27	b	607	F6C	C3D-C4D-ND	3.17	115.16	109.93
22	B	616	BCR	C23-C22-C21	3.17	124.00	119.01
22	b	616	BCR	C23-C22-C21	3.17	123.99	119.01
27	c	508	F6C	C3D-C4D-ND	3.17	115.15	109.93
20	c	507	CLA	CMC-C2C-C3C	3.17	134.71	126.15
20	B	602	CLA	C3D-C4D-ND	3.17	115.13	109.99
20	h	101	CLA	CHD-C1D-ND	-3.17	120.35	124.80
20	a	407	CLA	CMA-C3A-C4A	3.16	120.27	111.77
20	b	611	CLA	C3B-C2B-C1B	-3.16	103.44	107.17
20	b	603	CLA	C2B-C1B-NB	3.16	113.61	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	607	F6C	C3D-C4D-ND	3.16	115.14	109.93
20	b	614	CLA	CHD-C1D-ND	-3.16	120.36	124.80
20	B	603	CLA	C2B-C1B-NB	3.16	113.60	110.33
20	B	605	CLA	CAA-C2A-C3A	-3.16	104.46	113.00
20	H	101	CLA	C1-C2-C3	-3.16	121.65	126.76
20	A	404	CLA	C3D-C4D-ND	3.16	115.12	109.99
20	B	611	CLA	C3B-C2B-C1B	-3.16	103.45	107.17
20	h	101	CLA	C1-C2-C3	-3.16	121.65	126.76
21	a	406	PHO	C3B-C4B-NB	-3.16	105.41	107.46
20	B	601	CLA	O2A-CGA-CBA	3.15	123.96	114.00
20	A	407	CLA	CMA-C3A-C4A	3.15	120.24	111.77
20	b	609	CLA	CMB-C2B-C1B	3.15	130.21	125.42
20	B	609	CLA	CMB-C2B-C1B	3.15	130.21	125.42
20	a	407	CLA	C3D-C4D-ND	3.14	115.10	109.99
20	B	606	CLA	CMA-C3A-C4A	3.14	120.22	111.77
20	b	606	CLA	CMA-C3A-C4A	3.14	120.22	111.77
27	c	508	F6C	CHA-C1A-C2A	-3.14	121.97	130.41
20	b	601	CLA	O2A-CGA-CBA	3.14	123.91	114.00
20	B	609	CLA	C3D-C4D-ND	3.14	115.08	109.99
27	C	508	F6C	CHA-C1A-C2A	-3.14	121.98	130.41
20	c	509	CLA	O2A-C1-C2	3.14	120.17	108.11
21	A	406	PHO	C3B-C4B-NB	-3.13	105.42	107.46
20	a	405	CLA	C1-C2-C3	-3.13	121.69	126.76
20	b	609	CLA	C3D-C4D-ND	3.13	115.08	109.99
20	b	606	CLA	C3D-C4D-ND	3.13	115.08	109.99
20	C	509	CLA	O2A-C1-C2	3.13	120.15	108.11
20	d	404	CLA	C3D-C4D-ND	3.13	115.07	109.99
20	D	404	CLA	C3D-C4D-ND	3.12	115.06	109.99
20	B	606	CLA	C3D-C4D-ND	3.12	115.06	109.99
20	A	407	CLA	C3D-C4D-ND	3.11	115.05	109.99
20	b	611	CLA	C4D-C3D-CAD	3.11	111.48	108.11
20	B	611	CLA	C4D-C3D-CAD	3.10	111.47	108.11
20	C	510	CLA	C2B-C1B-NB	3.10	113.54	110.33
20	A	405	CLA	C1-C2-C3	-3.10	121.75	126.76
28	d	410	DGD	O6D-C1D-O3G	-3.09	102.73	110.04
20	C	502	CLA	O2A-CGA-CBA	3.09	121.26	111.83
20	c	502	CLA	O2A-CGA-CBA	3.09	121.26	111.83
24	A	410	PL9	O2-C1-C6	3.09	125.39	120.48
28	D	410	DGD	O6D-C1D-O3G	-3.08	102.76	110.04
24	a	410	PL9	O2-C1-C6	3.08	125.38	120.48
24	d	406	PL9	C36-C34-C33	-3.08	114.26	121.17
20	C	504	CLA	O2D-CGD-O1D	-3.08	117.86	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	c	504	CLA	O2D-CGD-O1D	-3.07	117.87	123.85
20	b	603	CLA	CMA-C3A-C4A	3.07	120.03	111.77
20	B	608	CLA	C4-C3-C5	3.07	120.56	115.23
20	c	512	CLA	O2D-CGD-O1D	-3.07	117.87	123.85
22	B	616	BCR	C37-C22-C21	-3.07	117.84	122.82
22	b	617	BCR	C33-C5-C4	3.07	120.13	113.60
20	B	603	CLA	CMA-C3A-C4A	3.06	120.01	111.77
20	C	512	CLA	O2D-CGD-O1D	-3.06	117.89	123.85
20	c	510	CLA	C2B-C1B-NB	3.06	113.50	110.33
20	b	608	CLA	C4-C3-C5	3.06	120.54	115.23
27	b	613	F6C	OMB-CMB-C2B	-3.06	118.71	125.62
24	D	406	PL9	C36-C34-C33	-3.06	114.30	121.17
29	D	401	CL7	CHC-C1C-C2C	-3.06	119.12	125.49
20	B	605	CLA	C4D-C3D-CAD	3.06	111.43	108.11
20	C	512	CLA	C2B-C1B-NB	3.06	113.50	110.33
20	b	612	CLA	C1-C2-C3	-3.06	121.19	126.20
22	B	617	BCR	C33-C5-C4	3.06	120.12	113.60
22	A	408	BCR	C19-C18-C17	3.06	123.82	119.01
27	B	613	F6C	OMB-CMB-C2B	-3.06	118.72	125.62
29	d	401	CL7	CHC-C1C-C2C	-3.05	119.14	125.49
20	B	612	CLA	C1-C2-C3	-3.05	121.19	126.20
22	b	616	BCR	C37-C22-C21	-3.05	117.87	122.82
20	b	606	CLA	C2B-C1B-NB	3.05	113.49	110.33
29	D	401	CL7	CMC-C2C-C3C	3.05	134.40	126.15
20	b	601	CLA	CMA-C3A-C4A	3.05	119.97	111.77
22	a	408	BCR	C19-C18-C17	3.05	123.81	119.01
20	b	605	CLA	C4D-C3D-CAD	3.05	111.42	108.11
29	d	401	CL7	CMC-C2C-C3C	3.05	134.40	126.15
20	B	606	CLA	C2B-C1B-NB	3.05	113.48	110.33
22	a	408	BCR	C37-C22-C21	-3.04	117.89	122.82
20	b	602	CLA	C1-C2-C3	-3.04	121.22	126.20
20	A	404	CLA	C2B-C1B-NB	3.04	113.48	110.33
20	B	608	CLA	C3C-C4C-NC	3.04	114.32	110.43
20	B	601	CLA	CMA-C3A-C4A	3.04	119.94	111.77
27	b	604	F6C	CAC-C3C-C4C	3.03	129.08	124.91
22	b	616	BCR	C19-C18-C17	3.03	123.78	119.01
24	d	406	PL9	C22-C23-C24	-3.03	120.69	127.62
22	B	616	BCR	C19-C18-C17	3.03	123.77	119.01
20	B	602	CLA	C1-C2-C3	-3.03	121.24	126.20
20	b	608	CLA	C3C-C4C-NC	3.02	114.30	110.43
24	D	406	PL9	C22-C23-C24	-3.02	120.71	127.62
22	A	408	BCR	C37-C22-C21	-3.02	117.92	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	M	101	LMG	O1-C1-C2	3.02	112.86	108.27
27	B	604	F6C	CAC-C3C-C4C	3.01	129.06	124.91
30	M	101	LMG	O8-C28-C29	3.01	121.02	111.83
20	A	404	CLA	CMA-C3A-C4A	3.01	119.87	111.77
20	a	404	CLA	C2B-C1B-NB	3.01	113.45	110.33
20	c	512	CLA	C2B-C1B-NB	3.01	113.45	110.33
20	B	601	CLA	CHD-C1D-ND	-3.01	120.56	124.80
20	a	404	CLA	CMA-C3A-C4A	3.01	119.85	111.77
22	b	617	BCR	C19-C18-C17	3.01	123.74	119.01
22	b	617	BCR	C7-C8-C9	-3.00	121.79	126.23
30	m	101	LMG	O8-C28-C29	3.00	121.00	111.83
20	c	503	CLA	CHD-C1D-ND	-3.00	120.58	124.80
22	B	617	BCR	C7-C8-C9	-3.00	121.80	126.23
30	m	101	LMG	O1-C1-C2	3.00	112.83	108.27
22	C	515	BCR	C35-C13-C12	3.00	122.67	118.09
20	C	503	CLA	CHD-C1D-ND	-3.00	120.58	124.80
20	A	407	CLA	C2B-C1B-NB	3.00	113.43	110.33
32	h	102	RRX	C12-C13-C14	3.00	123.72	119.01
20	C	504	CLA	CAA-CBA-CGA	-2.99	104.71	113.21
27	B	604	F6C	CAA-C2A-C1A	-2.99	119.64	128.01
22	c	515	BCR	C35-C13-C12	2.99	122.66	118.09
22	B	617	BCR	C19-C18-C17	2.99	123.72	119.01
27	B	607	F6C	CHA-C4D-ND	2.99	135.91	133.05
27	b	604	F6C	CAA-C2A-C1A	-2.99	119.65	128.01
20	c	504	CLA	CAA-CBA-CGA	-2.99	104.72	113.21
20	b	601	CLA	CHD-C1D-ND	-2.99	120.60	124.80
20	H	101	CLA	C2B-C1B-NB	2.99	113.42	110.33
20	b	602	CLA	CMA-C3A-C4A	2.99	119.80	111.77
26	d	407	LHG	O8-C23-O10	-2.99	116.16	123.63
20	a	407	CLA	C2B-C1B-NB	2.98	113.42	110.33
32	H	102	RRX	C12-C13-C14	2.98	123.70	119.01
26	D	407	LHG	O8-C23-O10	-2.98	116.17	123.63
20	B	602	CLA	CMA-C3A-C4A	2.98	119.77	111.77
32	H	102	RRX	C19-C18-C17	2.98	123.69	119.01
20	b	612	CLA	C4-C3-C5	2.97	120.39	115.23
20	c	503	CLA	CMC-C2C-C3C	2.97	134.19	126.15
20	h	101	CLA	C2B-C1B-NB	2.97	113.41	110.33
20	D	404	CLA	O2A-CGA-CBA	2.97	123.39	114.00
20	B	612	CLA	C4-C3-C5	2.97	120.38	115.23
20	d	404	CLA	O2A-CGA-CBA	2.97	123.38	114.00
21	D	402	PHO	C2D-C1D-ND	-2.97	107.29	109.43
27	C	508	F6C	CHA-C4D-ND	2.96	135.88	133.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	B	611	CLA	CHD-C1D-ND	-2.96	120.63	124.80
20	C	503	CLA	CMC-C2C-C3C	2.96	134.16	126.15
21	D	402	PHO	C2B-C1B-NB	-2.96	107.29	109.43
21	d	402	PHO	C2B-C1B-NB	-2.96	107.29	109.43
32	h	102	RRX	C19-C18-C17	2.96	123.66	119.01
27	B	607	F6C	CHD-C1D-ND	-2.96	119.86	124.31
27	c	508	F6C	CHA-C4D-ND	2.96	135.88	133.05
27	b	607	F6C	CHD-C1D-ND	-2.95	119.87	124.31
27	b	607	F6C	CHA-C4D-ND	2.95	135.87	133.05
20	a	405	CLA	C1-O2A-CGA	2.95	123.79	116.65
20	B	605	CLA	CAC-C3C-C4C	2.95	128.63	124.79
20	b	605	CLA	CAC-C3C-C4C	2.95	128.63	124.79
21	d	402	PHO	O2D-CGD-O1D	-2.95	118.11	123.85
20	b	611	CLA	CHD-C1D-ND	-2.94	120.66	124.80
20	B	608	CLA	O2D-CGD-O1D	-2.94	118.13	123.85
20	b	605	CLA	C4C-C3C-C2C	-2.94	102.61	106.89
20	A	405	CLA	C1-O2A-CGA	2.94	123.76	116.65
20	B	605	CLA	C4C-C3C-C2C	-2.94	102.62	106.89
27	b	613	F6C	CMC-C2C-C1C	2.93	129.89	125.42
20	C	512	CLA	C1-O2A-CGA	2.93	123.75	116.65
21	D	402	PHO	O2D-CGD-O1D	-2.93	118.14	123.85
21	d	402	PHO	C2D-C1D-ND	-2.93	107.31	109.43
22	b	616	BCR	C30-C25-C24	2.93	123.59	115.65
22	B	616	BCR	C30-C25-C24	2.93	123.59	115.65
20	C	510	CLA	CMC-C2C-C1C	2.92	129.60	125.03
20	b	611	CLA	C4B-C3B-C2B	-2.92	103.67	107.30
20	c	512	CLA	C1-O2A-CGA	2.92	123.72	116.65
20	b	608	CLA	O2D-CGD-O1D	-2.92	118.17	123.85
27	C	508	F6C	CHD-C1D-ND	-2.92	119.92	124.31
20	b	608	CLA	CHD-C1D-ND	-2.91	120.70	124.80
20	B	611	CLA	C4B-C3B-C2B	-2.91	103.68	107.30
20	B	605	CLA	C3C-C4C-NC	2.91	114.16	110.43
20	C	506	CLA	CMC-C2C-C1C	2.91	129.58	125.03
20	b	605	CLA	C3C-C4C-NC	2.91	114.15	110.43
20	C	510	CLA	CAA-C2A-C3A	-2.90	105.15	113.00
20	C	509	CLA	OBD-CAD-C3D	-2.90	121.63	128.42
20	B	608	CLA	CHD-C1D-ND	-2.90	120.72	124.80
27	B	613	F6C	CMC-C2C-C1C	2.90	129.84	125.42
20	c	510	CLA	C6-C5-C3	-2.90	106.40	113.47
20	c	510	CLA	CAA-C2A-C3A	-2.90	105.16	113.00
21	a	406	PHO	O2D-CGD-O1D	-2.90	118.20	123.85
20	c	510	CLA	CMC-C2C-C1C	2.90	129.57	125.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	c	514	CLA	C4D-C3D-CAD	2.90	111.25	108.11
27	c	508	F6C	CHD-C1D-ND	-2.90	119.94	124.31
22	C	515	BCR	C29-C30-C25	-2.89	106.24	110.44
20	C	510	CLA	C6-C5-C3	-2.89	106.43	113.47
21	A	406	PHO	O2D-CGD-O1D	-2.89	118.23	123.85
20	C	514	CLA	C4D-C3D-CAD	2.88	111.24	108.11
20	b	605	CLA	C2B-C1B-NB	2.88	113.32	110.33
20	c	506	CLA	CMC-C2C-C1C	2.88	129.53	125.03
27	c	508	F6C	C3C-C4C-NC	2.88	113.47	110.32
20	c	510	CLA	C1-C2-C3	-2.88	121.48	126.20
22	c	515	BCR	C29-C30-C25	-2.88	106.26	110.44
20	c	509	CLA	OBD-CAD-C3D	-2.88	121.69	128.42
20	C	514	CLA	CAA-CBA-CGA	-2.88	104.82	112.49
20	B	605	CLA	C2B-C1B-NB	2.87	113.31	110.33
32	H	102	RRX	C36-C18-C17	-2.87	118.16	122.82
20	c	514	CLA	CAA-CBA-CGA	-2.87	104.83	112.49
27	C	508	F6C	C3C-C4C-NC	2.87	113.47	110.32
20	B	602	CLA	CMB-C2B-C1B	2.86	129.78	125.42
32	H	102	RRX	C35-C13-C14	-2.86	118.18	122.82
32	h	102	RRX	C35-C13-C14	-2.86	118.18	122.82
20	c	502	CLA	C3D-C4D-ND	2.86	114.64	109.99
20	b	608	CLA	CMC-C2C-C1C	2.86	129.50	125.03
20	b	602	CLA	CMB-C2B-C1B	2.86	129.77	125.42
20	C	510	CLA	C1-C2-C3	-2.86	121.51	126.20
20	C	502	CLA	C3D-C4D-ND	2.86	114.63	109.99
31	v	201	HEM	CBD-CAD-C3D	-2.86	104.63	112.53
20	B	608	CLA	CMC-C2C-C1C	2.86	129.50	125.03
31	V	201	HEM	CBD-CAD-C3D	-2.85	104.65	112.53
20	b	611	CLA	O2D-CGD-O1D	-2.85	118.31	123.85
20	C	504	CLA	C1-C2-C3	-2.84	121.54	126.20
27	b	607	F6C	C3C-C4C-NC	2.84	113.43	110.32
20	B	611	CLA	O2D-CGD-O1D	-2.84	118.32	123.85
20	c	514	CLA	C3D-C4D-ND	2.84	114.60	109.99
32	h	102	RRX	C36-C18-C17	-2.83	118.22	122.82
20	c	504	CLA	C1-C2-C3	-2.83	121.55	126.20
20	c	507	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
20	C	514	CLA	C3D-C4D-ND	2.83	114.58	109.99
20	C	512	CLA	CMC-C2C-C1C	2.82	129.44	125.03
20	C	507	CLA	CMD-C2D-C3D	-2.82	121.22	127.69
20	c	510	CLA	C3C-C4C-NC	2.82	114.04	110.43
27	B	607	F6C	C3C-C4C-NC	2.82	113.41	110.32
29	D	401	CL7	O2A-C1-C2	2.82	118.95	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	510	CLA	C3C-C4C-NC	2.82	114.04	110.43
23	L	102	SQD	O9-S-C6	2.82	110.96	106.76
23	l	102	SQD	O9-S-C6	2.82	110.96	106.76
20	C	502	CLA	CAA-C2A-C3A	-2.81	105.40	113.00
20	c	512	CLA	CMC-C2C-C1C	2.81	129.43	125.03
29	d	401	CL7	O2A-C1-C2	2.81	118.93	108.11
20	C	512	CLA	CBC-CAC-C3C	-2.81	104.81	112.42
20	c	502	CLA	CAA-C2A-C3A	-2.81	105.41	113.00
20	c	512	CLA	CBC-CAC-C3C	-2.80	104.82	112.42
20	B	609	CLA	C3C-C4C-NC	2.80	114.02	110.43
20	c	503	CLA	CHC-C1C-C2C	-2.80	118.99	126.95
20	C	503	CLA	CHC-C1C-C2C	-2.80	119.00	126.95
20	b	608	CLA	CMB-C2B-C3B	2.80	133.13	126.55
20	b	609	CLA	C3C-C4C-NC	2.79	114.01	110.43
20	c	503	CLA	C4D-C3D-CAD	2.79	111.13	108.11
20	B	608	CLA	CMB-C2B-C3B	2.79	133.11	126.55
20	c	509	CLA	C4C-C3C-C2C	-2.79	102.83	106.89
27	B	613	F6C	CHD-C1D-ND	-2.79	120.12	124.31
22	c	515	BCR	C34-C9-C10	-2.78	118.31	122.82
20	B	609	CLA	CMC-C2C-C1C	2.78	129.38	125.03
20	b	609	CLA	CMC-C2C-C1C	2.78	129.38	125.03
27	b	613	F6C	CHD-C1D-ND	-2.78	120.12	124.31
20	C	507	CLA	CMB-C2B-C3B	2.78	133.09	126.55
20	c	507	CLA	CMB-C2B-C3B	2.78	133.09	126.55
22	C	515	BCR	C7-C8-C9	-2.78	122.13	126.23
22	C	515	BCR	C34-C9-C10	-2.77	118.32	122.82
20	a	404	CLA	C4-C3-C5	2.77	120.04	115.23
22	c	515	BCR	C33-C5-C4	2.77	119.50	113.60
20	C	503	CLA	O2D-CGD-O1D	-2.76	118.47	123.85
22	C	515	BCR	C33-C5-C4	2.76	119.49	113.60
27	b	613	F6C	O2A-C1-C2	2.76	118.74	108.11
20	B	601	CLA	C3C-C4C-NC	2.76	113.97	110.43
22	c	515	BCR	C7-C8-C9	-2.76	122.15	126.23
27	B	613	F6C	O2A-C1-C2	2.76	118.73	108.11
20	C	514	CLA	O2A-CGA-CBA	2.76	122.72	114.00
20	A	404	CLA	C4-C3-C5	2.76	120.02	115.23
20	c	512	CLA	C3D-C4D-ND	2.76	114.47	109.99
20	b	601	CLA	C3C-C4C-NC	2.76	113.96	110.43
20	b	615	CLA	O2A-C1-C2	2.76	118.72	108.11
20	B	610	CLA	CMA-C3A-C4A	2.76	119.19	111.77
20	C	512	CLA	C3D-C4D-ND	2.76	114.47	109.99
20	c	514	CLA	O2A-CGA-CBA	2.76	122.71	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	c	513	CLA	C4D-C3D-CAD	2.76	111.10	108.11
20	C	509	CLA	C4C-C3C-C2C	-2.75	102.88	106.89
20	B	615	CLA	O2A-C1-C2	2.75	118.71	108.11
20	b	610	CLA	CMA-C3A-C4A	2.75	119.17	111.77
20	c	507	CLA	C3D-C4D-ND	2.75	114.46	109.99
20	B	606	CLA	C4-C3-C5	2.75	120.00	115.23
20	C	503	CLA	C4D-C3D-CAD	2.75	111.09	108.11
20	C	513	CLA	C4D-C3D-CAD	2.75	111.09	108.11
20	C	507	CLA	C3D-C4D-ND	2.75	114.45	109.99
20	b	606	CLA	C4-C3-C5	2.75	119.99	115.23
24	d	406	PL9	C20-C19-C21	2.74	119.99	115.23
20	c	503	CLA	O2D-CGD-O1D	-2.74	118.51	123.85
20	a	404	CLA	CMC-C2C-C1C	2.74	129.32	125.03
24	D	406	PL9	C20-C19-C21	2.74	119.98	115.23
20	B	603	CLA	CMC-C2C-C1C	2.74	129.31	125.03
20	b	603	CLA	C4-C3-C5	2.74	119.98	115.23
27	c	508	F6C	C4-C3-C5	2.74	119.98	115.23
20	D	403	CLA	O2D-CGD-O1D	-2.73	118.53	123.85
20	b	603	CLA	CMC-C2C-C1C	2.73	129.30	125.03
22	b	617	BCR	C38-C26-C25	-2.73	121.50	124.48
20	b	606	CLA	CMC-C2C-C1C	2.73	129.30	125.03
20	C	504	CLA	CMA-C3A-C4A	2.73	119.11	111.77
20	B	606	CLA	CMC-C2C-C1C	2.73	129.30	125.03
20	B	603	CLA	C4-C3-C5	2.73	119.96	115.23
20	d	403	CLA	O2D-CGD-O1D	-2.72	118.55	123.85
20	A	405	CLA	CMD-C2D-C3D	-2.72	121.45	127.69
20	b	603	CLA	CMB-C2B-C1B	2.72	129.56	125.42
20	B	611	CLA	C1D-ND-C4D	-2.72	104.40	106.31
20	c	504	CLA	CMA-C3A-C4A	2.72	119.08	111.77
20	b	614	CLA	CMB-C2B-C1B	2.72	129.56	125.42
27	C	508	F6C	C4-C3-C5	2.72	119.94	115.23
20	B	602	CLA	C4-C3-C5	2.72	119.94	115.23
20	C	511	CLA	C1-O2A-CGA	2.72	123.23	116.65
20	B	603	CLA	CMB-C2B-C1B	2.72	129.55	125.42
20	B	605	CLA	CED-O2D-CGD	2.71	122.07	115.92
20	b	605	CLA	CED-O2D-CGD	2.71	122.07	115.92
22	B	617	BCR	C38-C26-C25	-2.71	121.52	124.48
20	a	405	CLA	CMD-C2D-C3D	-2.71	121.46	127.69
22	b	618	BCR	C24-C23-C22	-2.71	122.22	126.23
21	A	406	PHO	C2D-C1D-ND	-2.71	107.47	109.43
28	c	516	DGD	C1E-O6E-C5E	2.71	119.02	113.72
20	H	101	CLA	CAC-C3C-C4C	2.71	128.32	124.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	h	101	CLA	CAC-C3C-C4C	2.71	128.32	124.79
20	B	614	CLA	CMB-C2B-C1B	2.71	129.54	125.42
21	a	406	PHO	C2D-C1D-ND	-2.71	107.47	109.43
28	C	516	DGD	C1E-O6E-C5E	2.71	119.01	113.72
20	D	403	CLA	CMB-C2B-C3B	2.71	132.92	126.55
20	A	404	CLA	CMC-C2C-C1C	2.71	129.26	125.03
29	D	401	CL7	CHD-C1D-ND	-2.71	119.99	124.05
20	b	602	CLA	C4-C3-C5	2.70	119.92	115.23
20	c	511	CLA	C1-O2A-CGA	2.70	123.19	116.65
27	B	613	F6C	C3C-C4C-NC	2.70	113.28	110.32
22	B	618	BCR	C24-C23-C22	-2.70	122.24	126.23
29	d	401	CL7	CHD-C1D-ND	-2.70	120.00	124.05
20	d	403	CLA	CMB-C2B-C3B	2.70	132.89	126.55
20	c	504	CLA	CMC-C2C-C1C	2.70	129.25	125.03
20	b	612	CLA	C3D-C4D-ND	2.70	114.37	109.99
27	B	604	F6C	C3C-C4C-NC	2.69	113.27	110.32
27	b	604	F6C	C3C-C4C-NC	2.69	113.27	110.32
20	a	407	CLA	CMC-C2C-C1C	2.69	129.23	125.03
20	C	504	CLA	CMC-C2C-C1C	2.69	129.23	125.03
27	b	607	F6C	C4-C3-C5	2.68	119.89	115.23
22	d	405	BCR	C1-C6-C5	-2.68	118.97	122.64
27	b	604	F6C	CHD-C1D-ND	-2.68	120.28	124.31
20	b	611	CLA	C1D-ND-C4D	-2.68	104.43	106.31
20	D	403	CLA	CAA-C2A-C1A	-2.68	103.21	111.97
27	b	613	F6C	C3C-C4C-NC	2.68	113.25	110.32
20	B	612	CLA	C3D-C4D-ND	2.67	114.33	109.99
20	C	505	CLA	O2A-C1-C2	2.67	118.39	108.11
27	B	604	F6C	CHD-C1D-ND	-2.67	120.29	124.31
27	B	607	F6C	C4-C3-C5	2.67	119.86	115.23
27	b	607	F6C	CMA-C3A-C4A	-2.67	120.03	124.73
20	c	505	CLA	O2A-C1-C2	2.67	118.38	108.11
20	d	403	CLA	CAA-C2A-C1A	-2.67	103.23	111.97
27	B	613	F6C	CHB-C4A-C3A	-2.67	119.94	125.49
20	A	407	CLA	CMC-C2C-C1C	2.66	129.20	125.03
27	b	604	F6C	C1-O2A-CGA	2.66	123.10	116.65
22	C	515	BCR	C1-C6-C7	2.66	122.87	115.65
20	C	513	CLA	C3C-C4C-NC	2.66	113.84	110.43
22	B	616	BCR	C40-C30-C25	2.66	114.42	110.24
20	B	606	CLA	CMB-C2B-C1B	2.66	129.47	125.42
22	D	405	BCR	C1-C6-C5	-2.65	119.01	122.64
22	b	616	BCR	C40-C30-C25	2.65	114.41	110.24
20	B	612	CLA	CHD-C1D-ND	-2.65	121.07	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	B	607	F6C	CMA-C3A-C4A	-2.65	120.06	124.73
20	c	513	CLA	C3C-C4C-NC	2.65	113.83	110.43
22	c	515	BCR	C1-C6-C7	2.65	122.84	115.65
20	C	512	CLA	CMA-C3A-C4A	2.65	118.90	111.77
20	c	512	CLA	CMA-C3A-C4A	2.65	118.90	111.77
20	c	509	CLA	C4-C3-C5	2.65	119.83	115.23
22	a	408	BCR	C35-C13-C12	2.65	122.13	118.09
20	b	614	CLA	C3C-C4C-NC	2.65	113.82	110.43
20	C	513	CLA	CMB-C2B-C1B	2.65	129.45	125.42
20	H	101	CLA	C3C-C4C-NC	2.64	113.82	110.43
20	h	101	CLA	C3C-C4C-NC	2.64	113.82	110.43
22	B	618	BCR	C30-C25-C26	-2.64	119.02	122.64
20	c	509	CLA	CAC-C3C-C4C	2.64	128.23	124.79
22	B	618	BCR	C1-C6-C5	-2.64	119.03	122.64
20	B	614	CLA	C3C-C4C-NC	2.64	113.81	110.43
20	C	506	CLA	C3D-C4D-ND	2.64	114.28	109.99
27	b	613	F6C	CHB-C4A-C3A	-2.64	120.00	125.49
20	c	513	CLA	CMB-C2B-C1B	2.64	129.44	125.42
20	C	503	CLA	C1-O2A-CGA	2.64	123.03	116.65
22	A	408	BCR	C35-C13-C12	2.64	122.11	118.09
29	D	401	CL7	C3D-C4D-ND	2.64	113.88	110.20
29	D	401	CL7	CMB-C2B-C1B	2.64	129.43	125.42
27	B	604	F6C	C1-O2A-CGA	2.64	123.03	116.65
29	d	401	CL7	CMB-C2B-C1B	2.63	129.43	125.42
22	b	618	BCR	C1-C6-C5	-2.63	119.04	122.64
22	B	616	BCR	C3-C4-C5	-2.63	109.36	114.06
22	b	616	BCR	C3-C4-C5	-2.63	109.36	114.06
20	C	509	CLA	CAC-C3C-C4C	2.63	128.22	124.79
20	b	606	CLA	CMB-C2B-C1B	2.63	129.43	125.42
20	b	610	CLA	CHC-C1C-C2C	-2.63	119.47	126.95
20	C	513	CLA	C3D-C4D-ND	2.63	114.27	109.99
20	c	513	CLA	C3D-C4D-ND	2.63	114.27	109.99
24	A	410	PL9	O1-C4-C3	-2.63	117.95	120.73
22	a	408	BCR	C36-C18-C17	-2.63	118.55	122.82
20	C	504	CLA	C3D-C4D-ND	2.63	114.26	109.99
20	c	503	CLA	C1-O2A-CGA	2.63	123.02	116.65
20	c	506	CLA	C3D-C4D-ND	2.63	114.26	109.99
20	b	610	CLA	C3D-C4D-ND	2.63	114.26	109.99
22	b	617	BCR	C36-C18-C17	-2.63	118.56	122.82
20	C	509	CLA	C4-C3-C5	2.63	119.79	115.23
20	C	511	CLA	CAA-C2A-C3A	-2.63	105.90	113.00
20	B	605	CLA	C3D-C4D-ND	2.63	114.26	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	A	408	BCR	C36-C18-C17	-2.63	118.56	122.82
20	b	612	CLA	CHD-C1D-ND	-2.63	121.11	124.80
20	B	610	CLA	CHC-C1C-C2C	-2.63	119.49	126.95
20	c	504	CLA	C3D-C4D-ND	2.63	114.25	109.99
20	b	611	CLA	CHC-C1C-C2C	-2.62	119.50	126.95
20	c	511	CLA	CAA-C2A-C3A	-2.62	105.92	113.00
20	a	407	CLA	CMB-C2B-C1B	2.62	129.41	125.42
20	B	611	CLA	CHC-C1C-C2C	-2.62	119.51	126.95
20	B	608	CLA	C1-C2-C3	-2.62	121.91	126.20
22	C	515	BCR	C34-C9-C8	2.62	122.09	118.09
22	D	405	BCR	C7-C8-C9	-2.62	122.37	126.23
22	b	617	BCR	C28-C27-C26	-2.62	109.39	114.06
24	a	410	PL9	O1-C4-C3	-2.61	117.97	120.73
20	b	605	CLA	CMB-C2B-C1B	2.61	129.40	125.42
22	b	618	BCR	C30-C25-C26	-2.61	119.06	122.64
20	d	404	CLA	C2B-C1B-NB	2.61	113.03	110.33
22	d	405	BCR	C7-C8-C9	-2.61	122.37	126.23
20	B	605	CLA	CMB-C2B-C1B	2.61	129.40	125.42
20	B	610	CLA	C3D-C4D-ND	2.61	114.23	109.99
20	b	605	CLA	C3D-C4D-ND	2.61	114.23	109.99
20	D	404	CLA	C2B-C1B-NB	2.61	113.03	110.33
20	C	514	CLA	CAA-C2A-C3A	-2.61	105.95	113.00
22	b	616	BCR	C15-C14-C13	-2.61	123.62	127.28
22	B	617	BCR	C36-C18-C17	-2.61	118.59	122.82
20	C	503	CLA	C2B-C1B-NB	2.60	113.03	110.33
29	d	401	CL7	C3D-C4D-ND	2.60	113.83	110.20
22	c	515	BCR	C34-C9-C8	2.60	122.06	118.09
20	b	610	CLA	C4-C3-C5	2.60	119.74	115.23
20	c	503	CLA	C2B-C1B-NB	2.60	113.02	110.33
22	B	617	BCR	C28-C27-C26	-2.60	109.42	114.06
20	B	610	CLA	C4-C3-C5	2.60	119.74	115.23
20	A	407	CLA	CMB-C2B-C1B	2.60	129.38	125.42
20	c	514	CLA	CAA-C2A-C3A	-2.60	105.98	113.00
22	c	518	BCR	C31-C1-C6	-2.60	106.17	110.24
20	C	512	CLA	CAA-CBA-CGA	-2.60	105.84	113.21
22	B	616	BCR	C15-C14-C13	-2.60	123.64	127.28
20	A	404	CLA	CMB-C2B-C1B	2.60	129.37	125.42
22	C	518	BCR	C31-C1-C6	-2.59	106.17	110.24
20	c	512	CLA	C4D-C3D-CAD	2.59	110.92	108.11
20	H	101	CLA	C4C-C3C-C2C	-2.59	103.12	106.89
20	b	608	CLA	C1-C2-C3	-2.59	121.95	126.20
20	B	601	CLA	CMC-C2C-C1C	2.59	129.08	125.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	h	101	CLA	C4C-C3C-C2C	-2.59	103.12	106.89
20	d	403	CLA	C4-C3-C5	2.59	119.72	115.23
20	C	512	CLA	C4D-C3D-CAD	2.59	110.92	108.11
22	b	616	BCR	C38-C26-C25	-2.59	121.66	124.48
20	b	601	CLA	CMC-C2C-C1C	2.59	129.07	125.03
20	A	405	CLA	CMA-C3A-C4A	2.59	118.72	111.77
20	D	404	CLA	CMB-C2B-C1B	2.59	129.36	125.42
20	c	512	CLA	CAA-CBA-CGA	-2.59	105.87	113.21
20	a	405	CLA	C3D-C4D-ND	2.59	114.19	109.99
20	C	509	CLA	CHB-C1B-C2B	-2.58	119.93	127.43
20	d	404	CLA	CMB-C2B-C1B	2.58	129.35	125.42
20	a	407	CLA	O2D-CGD-O1D	-2.58	118.82	123.85
20	B	608	CLA	C1-O2A-CGA	2.58	122.90	116.65
20	c	504	CLA	CAA-C2A-C3A	-2.58	106.02	113.00
20	c	509	CLA	CHB-C1B-C2B	-2.58	119.94	127.43
20	a	405	CLA	C4D-C3D-CAD	2.58	110.91	108.11
20	b	612	CLA	CHD-C4C-C3C	-2.58	121.02	124.77
20	a	405	CLA	CMA-C3A-C4A	2.58	118.70	111.77
28	C	516	DGD	O3G-C1D-C2D	-2.58	104.36	108.27
20	B	605	CLA	CHD-C1D-ND	-2.57	121.18	124.80
20	a	404	CLA	CMB-C2B-C1B	2.57	129.34	125.42
20	B	611	CLA	CMB-C2B-C3B	2.57	132.60	126.55
20	D	403	CLA	C4-C3-C5	2.57	119.69	115.23
22	B	616	BCR	C38-C26-C25	-2.57	121.68	124.48
20	A	405	CLA	C3D-C4D-ND	2.57	114.17	109.99
20	D	404	CLA	CMC-C2C-C1C	2.57	129.05	125.03
20	d	403	CLA	C4D-C3D-CAD	2.57	110.90	108.11
20	C	506	CLA	C1-O2A-CGA	2.57	122.86	116.65
20	c	506	CLA	C1-O2A-CGA	2.56	122.86	116.65
20	B	602	CLA	C4D-C3D-CAD	2.56	110.89	108.11
20	C	506	CLA	C4D-C3D-CAD	2.56	110.89	108.11
20	b	608	CLA	C1-O2A-CGA	2.56	122.85	116.65
20	b	611	CLA	CMB-C2B-C3B	2.56	132.58	126.55
20	C	504	CLA	CAA-C2A-C3A	-2.56	106.08	113.00
20	B	612	CLA	CHD-C4C-C3C	-2.56	121.04	124.77
20	h	101	CLA	C3D-C4D-ND	2.56	114.15	109.99
20	A	405	CLA	C4D-C3D-CAD	2.56	110.89	108.11
20	b	605	CLA	CHD-C1D-ND	-2.56	121.20	124.80
20	A	407	CLA	O2D-CGD-O1D	-2.56	118.87	123.85
28	c	516	DGD	O3G-C1D-C2D	-2.56	104.39	108.27
20	c	503	CLA	O1D-CGD-CBD	-2.56	119.47	124.52
20	H	101	CLA	C3D-C4D-ND	2.56	114.14	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	b	608	CLA	C6-C5-C3	-2.56	107.24	113.47
20	b	602	CLA	C4D-C3D-CAD	2.56	110.88	108.11
22	A	408	BCR	C34-C9-C10	-2.55	118.68	122.82
20	B	608	CLA	C6-C5-C3	-2.55	107.25	113.47
22	a	408	BCR	C34-C9-C10	-2.55	118.68	122.82
20	D	403	CLA	C4D-C3D-CAD	2.55	110.87	108.11
20	B	605	CLA	C4B-CHC-C1C	2.55	132.24	126.25
20	c	506	CLA	C4D-C3D-CAD	2.55	110.87	108.11
20	b	605	CLA	C4B-CHC-C1C	2.55	132.24	126.25
20	c	511	CLA	C3D-C4D-ND	2.54	114.12	109.99
20	c	505	CLA	CAA-C2A-C3A	-2.54	106.13	113.00
20	c	507	CLA	CHB-C4A-NA	2.54	128.07	124.40
20	C	503	CLA	O1D-CGD-CBD	-2.54	119.51	124.52
20	d	404	CLA	CMC-C2C-C1C	2.54	129.00	125.03
20	b	615	CLA	CHB-C4A-NA	2.54	128.06	124.40
20	a	404	CLA	O2D-CGD-O1D	-2.53	118.91	123.85
20	c	505	CLA	C3D-C4D-ND	2.53	114.11	109.99
27	C	508	F6C	CHB-C4A-C3A	-2.53	120.22	125.49
20	A	404	CLA	O2D-CGD-O1D	-2.53	118.92	123.85
20	C	507	CLA	CHB-C4A-NA	2.53	128.05	124.40
27	c	508	F6C	CMA-C3A-C4A	-2.53	120.27	124.73
20	B	615	CLA	CHB-C4A-NA	2.53	128.05	124.40
20	b	603	CLA	CMD-C2D-C3D	-2.53	121.90	127.69
20	C	511	CLA	C3D-C4D-ND	2.52	114.09	109.99
20	C	502	CLA	C1-O2A-CGA	2.52	122.76	116.65
20	C	505	CLA	C3D-C4D-ND	2.52	114.09	109.99
20	c	502	CLA	C1-O2A-CGA	2.52	122.76	116.65
27	B	607	F6C	CHB-C4A-C3A	-2.52	120.24	125.49
31	V	201	HEM	C4D-ND-C1D	2.52	108.19	105.21
20	C	505	CLA	CAA-C2A-C3A	-2.52	106.18	113.00
27	c	508	F6C	CMC-C2C-C1C	2.52	129.26	125.42
27	b	607	F6C	CMC-C2C-C1C	2.52	129.26	125.42
20	C	514	CLA	CMB-C2B-C3B	2.52	132.47	126.55
27	B	607	F6C	CMC-C2C-C1C	2.52	129.25	125.42
29	d	401	CL7	O2D-CGD-O1D	-2.51	118.95	123.85
26	D	407	LHG	O7-C7-O9	-2.51	117.83	123.70
29	D	401	CL7	O2D-CGD-O1D	-2.51	118.96	123.85
26	A	412	LHG	O8-C23-O10	-2.51	117.34	123.63
26	d	407	LHG	O7-C7-O9	-2.51	117.84	123.70
27	C	508	F6C	CMC-C2C-C1C	2.51	129.24	125.42
30	M	101	LMG	C7-O1-C1	-2.51	108.42	113.80
27	C	508	F6C	CMA-C3A-C4A	-2.50	120.32	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	A	412	LHG	O7-C7-O9	-2.50	117.85	123.70
26	a	412	LHG	O7-C7-O9	-2.50	117.85	123.70
20	B	603	CLA	CMD-C2D-C3D	-2.50	121.95	127.69
20	b	603	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
27	c	508	F6C	CHB-C4A-C3A	-2.50	120.28	125.49
22	c	515	BCR	C12-C13-C14	-2.50	115.08	119.01
30	m	101	LMG	C7-O1-C1	-2.50	108.44	113.80
31	v	201	HEM	C4D-ND-C1D	2.50	108.16	105.21
27	b	607	F6C	CHB-C4A-C3A	-2.49	120.30	125.49
20	c	511	CLA	C1-C2-C3	-2.49	122.11	126.20
20	B	615	CLA	C1-C2-C3	-2.49	122.11	126.20
20	B	603	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
20	a	404	CLA	C4D-C3D-CAD	2.49	110.81	108.11
20	C	511	CLA	C1-C2-C3	-2.49	122.12	126.20
22	a	408	BCR	C34-C9-C8	2.49	121.89	118.09
26	a	412	LHG	O8-C23-O10	-2.49	117.41	123.63
20	c	514	CLA	CMB-C2B-C3B	2.49	132.40	126.55
22	A	408	BCR	C34-C9-C8	2.49	121.89	118.09
20	b	615	CLA	C1-C2-C3	-2.48	122.13	126.20
20	C	507	CLA	C4D-C3D-CAD	2.48	110.80	108.11
27	c	508	F6C	CMD-C2D-C3D	-2.48	122.00	127.69
20	C	504	CLA	C3C-C4C-NC	2.48	113.61	110.43
31	E	101	HEM	C4D-ND-C1D	2.48	108.14	105.21
20	b	601	CLA	CMB-C2B-C1B	2.48	129.19	125.42
22	c	518	BCR	C35-C13-C14	-2.48	116.80	123.63
20	c	504	CLA	C3C-C4C-NC	2.48	113.60	110.43
20	A	405	CLA	CBC-CAC-C3C	-2.48	105.71	112.42
20	c	507	CLA	C4D-C3D-CAD	2.47	110.79	108.11
29	d	401	CL7	C3D-C2D-C1D	-2.47	98.50	106.40
22	C	515	BCR	C12-C13-C14	-2.47	115.12	119.01
22	C	518	BCR	C35-C13-C14	-2.47	116.80	123.63
22	B	616	BCR	C34-C9-C10	-2.47	118.81	122.82
22	b	616	BCR	C34-C9-C10	-2.47	118.81	122.82
20	c	507	CLA	C3C-C4C-NC	2.47	113.59	110.43
20	B	601	CLA	CMB-C2B-C1B	2.47	129.18	125.42
20	B	605	CLA	OBD-CAD-C3D	-2.47	122.65	128.42
22	D	405	BCR	C34-C9-C10	-2.47	118.82	122.82
20	b	606	CLA	O2D-CGD-O1D	-2.46	119.05	123.85
27	B	607	F6C	OMB-CMB-C2B	-2.46	120.06	125.62
27	b	607	F6C	OMB-CMB-C2B	-2.46	120.06	125.62
20	A	404	CLA	C4D-C3D-CAD	2.46	110.78	108.11
27	c	508	F6C	O2D-CGD-O1D	-2.46	119.05	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	507	CLA	C3C-C4C-NC	2.46	113.58	110.43
29	D	401	CL7	C3D-C2D-C1D	-2.46	98.53	106.40
20	B	606	CLA	O2D-CGD-O1D	-2.46	119.06	123.85
27	b	607	F6C	CMD-C2D-C3D	-2.46	122.04	127.69
20	b	605	CLA	OBD-CAD-C3D	-2.46	122.66	128.42
27	C	508	F6C	CMD-C2D-C3D	-2.46	122.05	127.69
21	A	406	PHO	C4-C3-C2	-2.46	117.31	123.63
20	b	610	CLA	CBC-CAC-C3C	-2.46	105.76	112.42
20	b	602	CLA	CMD-C2D-C3D	-2.46	122.05	127.69
20	a	405	CLA	CBC-CAC-C3C	-2.46	105.76	112.42
20	C	502	CLA	CMB-C2B-C3B	2.46	132.33	126.55
20	C	509	CLA	O2D-CGD-O1D	-2.46	119.07	123.85
20	C	512	CLA	CAA-C2A-C3A	-2.45	106.37	113.00
22	d	405	BCR	C34-C9-C10	-2.45	118.84	122.82
20	c	512	CLA	CAA-C2A-C3A	-2.45	106.37	113.00
20	c	502	CLA	CMB-C2B-C3B	2.45	132.32	126.55
30	d	409	LMG	O8-C28-C29	2.45	119.31	111.83
20	B	610	CLA	CBC-CAC-C3C	-2.45	105.78	112.42
20	B	602	CLA	CMD-C2D-C3D	-2.45	122.07	127.69
27	B	607	F6C	O2D-CGD-O1D	-2.45	119.08	123.85
20	c	514	CLA	CAC-C3C-C4C	2.45	127.97	124.79
21	a	406	PHO	C4-C3-C2	-2.45	117.34	123.63
27	B	613	F6C	C4-C3-C5	2.45	119.48	115.23
20	c	510	CLA	C11-C12-C13	-2.45	107.83	115.97
30	D	409	LMG	O8-C28-C29	2.45	119.29	111.83
20	B	606	CLA	CMD-C2D-C3D	-2.45	122.08	127.69
27	B	607	F6C	CMD-C2D-C3D	-2.45	122.08	127.69
22	D	405	BCR	C3-C4-C5	-2.44	109.70	114.06
22	d	405	BCR	C3-C4-C5	-2.44	109.70	114.06
20	c	509	CLA	O2D-CGD-O1D	-2.44	119.09	123.85
27	b	607	F6C	O2D-CGD-O1D	-2.44	119.09	123.85
20	b	603	CLA	C4D-C3D-CAD	2.44	110.76	108.11
20	B	602	CLA	CMC-C2C-C1C	2.44	128.85	125.03
20	b	606	CLA	CMD-C2D-C3D	-2.44	122.09	127.69
31	e	101	HEM	C4D-ND-C1D	2.44	108.10	105.21
20	C	510	CLA	C11-C12-C13	-2.44	107.86	115.97
20	c	503	CLA	CMA-C3A-C4A	2.44	118.32	111.77
22	b	617	BCR	C39-C30-C25	-2.44	106.42	110.24
20	b	606	CLA	C4D-C3D-CAD	2.44	110.75	108.11
20	c	503	CLA	C3D-C4D-ND	2.44	113.95	109.99
20	C	514	CLA	CMD-C2D-C3D	-2.44	122.10	127.69
27	C	508	F6C	O2D-CGD-O1D	-2.44	119.11	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	a	407	CLA	CMD-C2D-C3D	-2.43	122.11	127.69
20	B	603	CLA	C4D-C3D-CAD	2.43	110.75	108.11
20	c	505	CLA	C4D-C3D-CAD	2.43	110.75	108.11
20	C	503	CLA	CMA-C3A-C4A	2.43	118.30	111.77
20	B	606	CLA	C4D-C3D-CAD	2.43	110.75	108.11
20	C	503	CLA	C3B-C4B-NB	2.43	112.70	110.53
27	c	508	F6C	OMB-CMB-C2B	-2.43	120.14	125.62
27	b	613	F6C	C4-C3-C5	2.43	119.44	115.23
27	C	508	F6C	OMB-CMB-C2B	-2.42	120.15	125.62
20	b	602	CLA	CMC-C2C-C1C	2.42	128.82	125.03
20	a	407	CLA	C4D-C3D-CAD	2.42	110.74	108.11
20	b	608	CLA	O2A-C1-C2	2.42	117.43	108.11
20	C	503	CLA	C3C-C4C-NC	2.42	113.53	110.43
22	B	617	BCR	C39-C30-C25	-2.42	106.45	110.24
20	c	514	CLA	CMD-C2D-C3D	-2.42	122.14	127.69
20	C	514	CLA	CAC-C3C-C4C	2.42	127.94	124.79
20	B	608	CLA	O2A-C1-C2	2.42	117.42	108.11
20	c	506	CLA	CMB-C2B-C1B	2.42	129.10	125.42
20	A	407	CLA	CMD-C2D-C3D	-2.42	122.14	127.69
20	C	506	CLA	CMB-C2B-C1B	2.42	129.10	125.42
23	L	102	SQD	O47-C45-C44	2.41	116.99	108.34
20	C	503	CLA	C3D-C4D-ND	2.41	113.91	109.99
20	c	503	CLA	C3B-C4B-NB	2.41	112.68	110.53
20	b	612	CLA	CMB-C2B-C3B	2.41	132.21	126.55
20	c	509	CLA	C4B-C3B-C2B	-2.41	104.31	107.30
20	B	602	CLA	O2D-CGD-O1D	-2.41	119.16	123.85
20	b	612	CLA	C4C-C3C-C2C	-2.41	103.39	106.89
22	b	617	BCR	C3-C4-C5	-2.41	109.77	114.06
20	c	503	CLA	C3C-C4C-NC	2.41	113.51	110.43
22	b	617	BCR	C33-C5-C6	-2.41	121.86	124.48
20	A	404	CLA	C3C-C4C-NC	2.41	113.51	110.43
22	B	617	BCR	C3-C4-C5	-2.40	109.77	114.06
20	c	507	CLA	O1D-CGD-CBD	-2.40	119.78	124.52
23	L	102	SQD	O47-C7-O49	-2.40	118.09	123.70
20	C	505	CLA	C4D-C3D-CAD	2.40	110.71	108.11
23	l	102	SQD	O47-C45-C44	2.40	116.96	108.34
22	B	617	BCR	C33-C5-C6	-2.40	121.86	124.48
22	B	618	BCR	C33-C5-C6	-2.39	121.87	124.48
24	D	406	PL9	C8-C7-C3	2.39	118.21	112.03
20	B	612	CLA	CMB-C2B-C3B	2.39	132.17	126.55
27	b	604	F6C	C4-C3-C5	2.39	119.38	115.23
20	C	503	CLA	C4-C3-C5	2.39	119.38	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	c	503	CLA	C4-C3-C5	2.39	119.38	115.23
24	d	406	PL9	C8-C7-C3	2.39	118.21	112.03
26	d	408	LHG	O8-C23-O10	-2.39	117.65	123.63
27	B	604	F6C	C4-C3-C5	2.39	119.37	115.23
20	b	602	CLA	O2D-CGD-O1D	-2.39	119.20	123.85
20	b	609	CLA	OBD-CAD-C3D	-2.39	122.83	128.42
20	C	509	CLA	C4B-C3B-C2B	-2.39	104.33	107.30
20	B	615	CLA	CBA-CAA-C2A	-2.39	106.69	113.79
26	D	407	LHG	C6-C5-C4	-2.39	106.22	111.78
20	a	404	CLA	C3C-C4C-NC	2.39	113.49	110.43
20	C	507	CLA	O1D-CGD-CBD	-2.39	119.81	124.52
20	B	605	CLA	CMC-C2C-C3C	2.39	132.60	126.15
20	A	404	CLA	CMD-C2D-C3D	-2.39	122.22	127.69
22	c	518	BCR	C34-C9-C10	-2.39	118.95	122.82
26	D	408	LHG	O8-C23-O10	-2.39	117.66	123.63
20	b	605	CLA	CMC-C2C-C3C	2.38	132.60	126.15
20	b	615	CLA	CBA-CAA-C2A	-2.38	106.70	113.79
20	a	407	CLA	C5-C3-C4	2.38	120.08	114.59
23	l	102	SQD	C45-O47-C7	2.38	123.50	117.80
23	l	102	SQD	O47-C7-O49	-2.38	118.14	123.70
20	B	609	CLA	OBD-CAD-C3D	-2.38	122.85	128.42
20	B	612	CLA	C4C-C3C-C2C	-2.38	103.43	106.89
20	A	407	CLA	C4D-C3D-CAD	2.38	110.69	108.11
22	b	618	BCR	C23-C22-C21	2.38	122.75	119.01
20	b	610	CLA	O1D-CGD-CBD	-2.38	119.83	124.52
20	A	407	CLA	C5-C3-C4	2.38	120.06	114.59
23	L	102	SQD	C45-O47-C7	2.38	123.48	117.80
20	b	606	CLA	C3C-C4C-NC	2.38	113.47	110.43
22	b	618	BCR	C33-C5-C6	-2.37	121.89	124.48
26	d	407	LHG	C6-C5-C4	-2.37	106.25	111.78
20	B	614	CLA	O2A-C1-C2	2.37	117.23	108.11
20	b	614	CLA	O2A-C1-C2	2.37	117.23	108.11
20	B	615	CLA	C4-C3-C2	-2.37	117.54	123.63
20	a	404	CLA	CMD-C2D-C3D	-2.37	122.26	127.69
20	a	407	CLA	C3C-C4C-NC	2.37	113.46	110.43
20	B	610	CLA	O1D-CGD-CBD	-2.36	119.86	124.52
20	b	615	CLA	C4-C3-C2	-2.36	117.56	123.63
22	C	518	BCR	C34-C9-C10	-2.36	118.99	122.82
27	b	604	F6C	CHC-C1C-C2C	-2.36	120.57	127.43
22	B	618	BCR	C23-C22-C21	2.36	122.72	119.01
20	C	510	CLA	C3D-C4D-ND	2.36	113.82	109.99
20	D	403	CLA	OBD-CAD-C3D	-2.36	122.90	128.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	B	606	CLA	C3C-C4C-NC	2.36	113.45	110.43
22	A	408	BCR	C33-C5-C4	2.36	118.62	113.60
22	a	408	BCR	C3-C4-C5	-2.36	109.85	114.06
28	c	517	DGD	C1D-C2D-C3D	-2.35	105.06	110.01
27	B	604	F6C	CHC-C1C-C2C	-2.35	120.59	127.43
20	A	407	CLA	C3C-C4C-NC	2.35	113.44	110.43
22	a	408	BCR	C33-C5-C4	2.35	118.61	113.60
28	C	517	DGD	C1D-C2D-C3D	-2.35	105.06	110.01
20	d	403	CLA	OBD-CAD-C3D	-2.35	122.92	128.42
20	B	605	CLA	C1-O2A-CGA	2.35	122.34	116.65
22	A	408	BCR	C3-C4-C5	-2.35	109.86	114.06
20	c	510	CLA	C3D-C4D-ND	2.35	113.81	109.99
20	b	609	CLA	C2B-C1B-NB	2.35	112.76	110.33
20	c	510	CLA	C4-C3-C5	2.35	119.30	115.23
20	a	405	CLA	CMC-C2C-C1C	2.35	128.70	125.03
20	b	605	CLA	C1-O2A-CGA	2.34	122.32	116.65
20	B	615	CLA	C3D-C4D-ND	2.34	113.79	109.99
20	c	507	CLA	C4C-C3C-C2C	-2.34	103.48	106.89
20	c	514	CLA	O2D-CGD-O1D	-2.34	119.29	123.85
24	d	406	PL9	C27-C28-C29	-2.34	122.27	127.62
20	B	609	CLA	C2B-C1B-NB	2.34	112.75	110.33
20	C	507	CLA	C4C-C3C-C2C	-2.34	103.49	106.89
28	C	516	DGD	C3D-C4D-C5D	-2.34	105.99	110.23
30	d	409	LMG	C8-O7-C10	-2.34	112.20	117.80
32	H	102	RRX	C8-C9-C10	2.34	122.69	119.01
20	C	514	CLA	O2D-CGD-O1D	-2.34	119.30	123.85
20	C	503	CLA	CMD-C2D-C3D	-2.33	122.34	127.69
20	b	608	CLA	CAC-C3C-C4C	2.33	127.83	124.79
30	D	409	LMG	C8-O7-C10	-2.33	112.21	117.80
32	h	102	RRX	C23-C22-C21	2.33	122.68	119.01
32	H	102	RRX	C23-C22-C21	2.33	122.68	119.01
28	c	516	DGD	C3D-C4D-C5D	-2.33	106.00	110.23
20	C	511	CLA	C3C-C4C-NC	2.33	113.42	110.43
20	B	608	CLA	CAC-C3C-C4C	2.33	127.82	124.79
20	b	615	CLA	C3D-C4D-ND	2.33	113.77	109.99
20	B	603	CLA	C3C-C4C-NC	2.33	113.41	110.43
26	L	101	LHG	C9-C8-C7	-2.33	105.17	113.69
26	l	101	LHG	C9-C8-C7	-2.33	105.17	113.69
20	c	503	CLA	CMD-C2D-C3D	-2.32	122.36	127.69
20	B	612	CLA	CHB-C4A-NA	2.32	127.75	124.40
20	C	505	CLA	C5-C3-C4	2.32	119.94	114.59
32	h	102	RRX	C8-C9-C10	2.32	122.66	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	D	406	PL9	C27-C28-C29	-2.32	122.31	127.62
20	b	612	CLA	CHB-C4A-NA	2.32	127.75	124.40
20	c	505	CLA	C5-C3-C4	2.32	119.92	114.59
20	A	405	CLA	CMC-C2C-C1C	2.32	128.65	125.03
20	b	615	CLA	CMC-C2C-C1C	2.31	128.65	125.03
20	C	513	CLA	CHD-C1D-ND	-2.31	121.55	124.80
20	C	510	CLA	C4-C3-C5	2.31	119.24	115.23
20	c	511	CLA	C3C-C4C-NC	2.31	113.39	110.43
24	a	410	PL9	O2-C1-C2	-2.31	116.58	121.83
20	b	610	CLA	C7-C6-C5	-2.30	107.12	113.26
20	B	610	CLA	C7-C6-C5	-2.30	107.13	113.26
22	B	616	BCR	C1-C6-C7	2.30	121.89	115.65
20	c	507	CLA	C1-O2A-CGA	2.30	122.22	116.65
20	C	510	CLA	C4D-C3D-CAD	2.30	110.61	108.11
20	C	513	CLA	CAA-C2A-C3A	-2.30	106.78	113.00
20	c	506	CLA	CHB-C4A-NA	2.30	127.72	124.40
29	d	401	CL7	C3C-C4C-NC	2.30	112.60	110.20
22	b	616	BCR	C1-C6-C7	2.30	121.89	115.65
20	C	507	CLA	C1-O2A-CGA	2.30	122.22	116.65
20	c	513	CLA	CHD-C1D-ND	-2.30	121.57	124.80
24	A	410	PL9	O2-C1-C2	-2.30	116.61	121.83
23	L	102	SQD	C1-C2-C3	-2.30	105.18	110.01
23	l	102	SQD	C1-C2-C3	-2.30	105.18	110.01
20	B	615	CLA	CMC-C2C-C1C	2.29	128.62	125.03
20	c	510	CLA	CMD-C2D-C3D	-2.29	122.43	127.69
20	a	405	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
28	c	516	DGD	O2E-C2E-C1E	-2.29	104.61	110.08
20	c	513	CLA	CAA-C2A-C3A	-2.29	106.80	113.00
20	C	509	CLA	C1-C2-C3	-2.29	122.44	126.20
20	c	507	CLA	C4-C3-C5	2.29	119.20	115.23
20	C	510	CLA	O2A-C1-C2	2.29	116.92	108.11
20	c	509	CLA	C1-C2-C3	-2.29	122.45	126.20
20	C	506	CLA	CHB-C4A-NA	2.29	127.70	124.40
27	b	613	F6C	C4A-CHB-C1B	2.29	130.88	126.02
20	B	610	CLA	CMC-C2C-C3C	2.29	132.33	126.15
20	b	603	CLA	C3C-C4C-NC	2.28	113.36	110.43
20	A	405	CLA	CHC-C1C-C2C	-2.28	120.46	126.95
28	C	516	DGD	O2E-C2E-C1E	-2.28	104.64	110.08
27	c	508	F6C	CMA-C3A-C2A	-2.28	119.98	126.15
20	B	612	CLA	CAA-C2A-C3A	-2.28	106.84	113.00
20	b	612	CLA	CAA-C2A-C3A	-2.28	106.84	113.00
20	b	610	CLA	C4-C3-C2	-2.28	117.77	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	C	508	F6C	CMA-C3A-C2A	-2.28	119.98	126.15
20	B	610	CLA	C4-C3-C2	-2.28	117.77	123.63
20	c	510	CLA	O2A-C1-C2	2.28	116.88	108.11
27	B	613	F6C	C4A-CHB-C1B	2.28	130.86	126.02
20	b	615	CLA	C6-C5-C3	-2.28	107.92	113.47
20	b	610	CLA	CMC-C2C-C3C	2.28	132.31	126.15
22	B	618	BCR	C3-C4-C5	-2.28	110.00	114.06
20	C	510	CLA	CMD-C2D-C3D	-2.28	122.47	127.69
27	B	613	F6C	CHA-C1A-C2A	-2.28	124.29	130.41
27	b	613	F6C	CHA-C1A-C2A	-2.28	124.29	130.41
20	c	511	CLA	O1D-CGD-CBD	-2.27	120.03	124.52
23	L	102	SQD	O48-C23-O10	-2.27	117.94	123.63
20	C	505	CLA	CMC-C2C-C1C	2.27	128.59	125.03
20	b	610	CLA	C1-C2-C3	-2.27	122.47	126.20
27	B	607	F6C	CMA-C3A-C2A	-2.27	120.00	126.15
21	a	406	PHO	CBA-CAA-C2A	-2.27	107.08	113.78
22	b	618	BCR	C3-C4-C5	-2.27	110.00	114.06
22	C	515	BCR	C1-C6-C5	-2.27	119.53	122.64
31	E	101	HEM	C2A-C1A-NA	-2.27	107.63	110.15
20	C	507	CLA	C4-C3-C5	2.27	119.17	115.23
23	L	102	SQD	O48-C46-C45	-2.27	101.85	108.40
20	H	101	CLA	CMD-C2D-C3D	-2.27	122.48	127.69
20	C	507	CLA	CHC-C1C-C2C	-2.27	120.50	126.95
20	c	509	CLA	C3C-C4C-NC	2.27	113.33	110.43
23	l	102	SQD	O48-C46-C45	-2.27	101.86	108.40
20	b	601	CLA	C3D-C4D-ND	2.27	113.67	109.99
27	b	607	F6C	CMA-C3A-C2A	-2.27	120.02	126.15
20	b	606	CLA	CAC-C3C-C4C	2.27	127.74	124.79
20	B	610	CLA	C1-C2-C3	-2.26	122.49	126.20
21	A	406	PHO	CBA-CAA-C2A	-2.26	107.11	113.78
20	c	507	CLA	CHC-C1C-C2C	-2.26	120.52	126.95
27	B	604	F6C	C3D-C4D-ND	2.26	113.65	109.93
20	C	511	CLA	O1D-CGD-CBD	-2.26	120.06	124.52
20	B	601	CLA	C3D-C4D-ND	2.26	113.66	109.99
28	c	516	DGD	O6E-C5E-C6E	-2.26	100.84	106.44
20	B	615	CLA	C6-C5-C3	-2.26	107.97	113.47
20	h	101	CLA	CMD-C2D-C3D	-2.26	122.51	127.69
20	a	404	CLA	CAC-C3C-C4C	2.26	127.72	124.79
22	b	616	BCR	C4-C5-C6	-2.26	119.66	122.70
20	c	505	CLA	CMC-C2C-C1C	2.26	128.56	125.03
29	d	401	CL7	C6-C5-C3	-2.25	107.97	113.47
20	C	507	CLA	O2D-CGD-O1D	-2.25	119.46	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	B	616	BCR	C4-C5-C6	-2.25	119.66	122.70
23	l	102	SQD	O48-C23-O10	-2.25	117.99	123.63
20	c	510	CLA	C4D-C3D-CAD	2.25	110.55	108.11
20	B	606	CLA	CAC-C3C-C4C	2.25	127.72	124.79
20	C	509	CLA	C3D-C4D-ND	2.25	113.64	109.99
20	A	404	CLA	CAC-C3C-C4C	2.25	127.71	124.79
28	C	516	DGD	O6E-C5E-C6E	-2.25	100.87	106.44
22	D	405	BCR	C35-C13-C12	2.25	121.52	118.09
22	c	515	BCR	C1-C6-C5	-2.24	119.57	122.64
20	c	507	CLA	O2D-CGD-O1D	-2.24	119.48	123.85
20	C	503	CLA	CMB-C2B-C1B	2.24	128.83	125.42
20	H	101	CLA	CHC-C1C-C2C	-2.24	120.58	126.95
29	D	401	CL7	C3C-C4C-NC	2.24	112.54	110.20
20	C	503	CLA	C4C-C3C-C2C	-2.24	103.63	106.89
22	c	518	BCR	C33-C5-C4	2.24	118.37	113.60
20	c	509	CLA	C3D-C4D-ND	2.24	113.63	109.99
20	c	502	CLA	C4-C3-C5	2.24	119.11	115.23
20	C	509	CLA	C3C-C4C-NC	2.24	113.30	110.43
29	D	401	CL7	C6-C5-C3	-2.24	108.02	113.47
22	d	405	BCR	C35-C13-C12	2.24	121.50	118.09
27	b	604	F6C	C3D-C4D-ND	2.23	113.61	109.93
20	B	605	CLA	CHC-C1C-C2C	-2.23	120.60	126.95
20	h	101	CLA	CHC-C1C-C2C	-2.23	120.60	126.95
31	e	101	HEM	C2A-C1A-NA	-2.23	107.68	110.15
20	b	602	CLA	C3C-C4C-NC	2.23	113.29	110.43
20	C	503	CLA	CAA-C2A-C3A	-2.23	106.97	113.00
20	C	502	CLA	C4-C3-C5	2.23	119.10	115.23
20	B	608	CLA	C4C-C3C-C2C	-2.23	103.65	106.89
20	c	503	CLA	CAA-C2A-C3A	-2.23	106.97	113.00
20	c	506	CLA	CHD-C1D-ND	-2.23	121.67	124.80
30	M	101	LMG	C8-O7-C10	-2.23	112.46	117.80
20	c	503	CLA	C4C-C3C-C2C	-2.23	103.65	106.89
22	C	518	BCR	C33-C5-C4	2.23	118.34	113.60
20	C	506	CLA	CHD-C1D-ND	-2.23	121.67	124.80
28	D	410	DGD	C1D-C2D-C3D	-2.23	105.33	110.01
20	b	605	CLA	CHC-C1C-C2C	-2.22	120.62	126.95
28	d	410	DGD	C1D-C2D-C3D	-2.22	105.33	110.01
20	C	503	CLA	C4B-C3B-C2B	-2.22	104.54	107.30
30	m	101	LMG	C8-O7-C10	-2.22	112.47	117.80
20	b	608	CLA	C4C-C3C-C2C	-2.22	103.66	106.89
20	c	504	CLA	C6-C5-C3	-2.22	108.06	113.47
20	b	614	CLA	CHD-C4C-C3C	-2.22	121.54	124.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	B	602	CLA	C3C-C4C-NC	2.22	113.27	110.43
20	B	611	CLA	C7-C6-C5	-2.21	107.36	113.26
20	c	509	CLA	C4D-C3D-CAD	2.21	110.51	108.11
26	D	408	LHG	O8-C23-C24	2.21	118.58	111.83
20	c	503	CLA	CMB-C2B-C1B	2.21	128.79	125.42
27	b	613	F6C	CHC-C1C-C2C	-2.21	121.01	127.43
20	C	504	CLA	C6-C5-C3	-2.21	108.08	113.47
20	C	509	CLA	CED-O2D-CGD	2.21	120.92	115.92
20	c	503	CLA	C4B-C3B-C2B	-2.21	104.56	107.30
20	c	509	CLA	CED-O2D-CGD	2.21	120.92	115.92
20	b	611	CLA	C7-C6-C5	-2.21	107.38	113.26
23	l	102	SQD	C4-C3-C2	2.20	114.70	110.83
26	d	408	LHG	O8-C23-C24	2.20	118.56	111.83
20	B	614	CLA	CHD-C4C-C3C	-2.20	121.56	124.77
20	B	601	CLA	C4D-C3D-CAD	2.20	110.50	108.11
27	B	613	F6C	CHC-C1C-C2C	-2.20	121.05	127.43
20	b	601	CLA	C4D-C3D-CAD	2.20	110.49	108.11
22	B	618	BCR	C33-C5-C4	2.19	118.27	113.60
20	c	514	CLA	CMA-C3A-C4A	2.19	117.66	111.77
24	a	410	PL9	C2-C3-C4	2.19	121.72	118.78
20	C	509	CLA	C4D-C3D-CAD	2.19	110.48	108.11
22	b	618	BCR	C33-C5-C4	2.19	118.26	113.60
23	L	102	SQD	C4-C3-C2	2.19	114.67	110.83
20	c	514	CLA	C3C-C4C-NC	2.18	113.23	110.43
20	C	507	CLA	CHB-C1B-C2B	-2.18	121.10	127.43
20	b	614	CLA	C3D-C4D-ND	2.18	113.53	109.99
20	C	514	CLA	CMA-C3A-C4A	2.18	117.63	111.77
20	c	507	CLA	CHB-C1B-C2B	-2.18	121.10	127.43
24	D	406	PL9	C32-C33-C34	-2.18	122.64	127.62
24	A	410	PL9	C2-C3-C4	2.18	121.70	118.78
20	C	506	CLA	C4C-C3C-C2C	-2.17	103.73	106.89
20	b	605	CLA	C12-C11-C10	2.17	123.01	113.28
20	B	605	CLA	C12-C11-C10	2.17	123.00	113.28
24	d	406	PL9	C32-C33-C34	-2.17	122.66	127.62
20	C	514	CLA	C3C-C4C-NC	2.17	113.21	110.43
20	B	605	CLA	CAA-C2A-C1A	2.17	119.08	111.97
20	B	614	CLA	C3D-C4D-ND	2.17	113.51	109.99
20	H	101	CLA	C5-C3-C4	2.17	119.57	114.59
20	b	614	CLA	CAC-C3C-C4C	2.17	127.61	124.79
20	h	101	CLA	C5-C3-C4	2.17	119.57	114.59
20	c	506	CLA	C4C-C3C-C2C	-2.17	103.74	106.89
20	b	605	CLA	CAA-C2A-C1A	2.16	119.07	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	b	615	CLA	C4D-C3D-CAD	2.16	110.46	108.11
28	c	516	DGD	O2D-C2D-C1D	-2.16	104.92	110.08
20	B	614	CLA	CAC-C3C-C4C	2.16	127.60	124.79
20	B	615	CLA	C4D-C3D-CAD	2.16	110.45	108.11
21	D	402	PHO	C3B-C4B-NB	-2.16	106.06	107.46
20	c	506	CLA	OBD-CAD-C3D	-2.16	123.38	128.42
20	b	615	CLA	C3C-C4C-NC	2.15	113.19	110.43
22	B	616	BCR	C24-C25-C26	-2.15	116.59	121.56
31	e	101	HEM	C3D-C4D-ND	-2.15	107.81	110.17
20	C	506	CLA	OBD-CAD-C3D	-2.15	123.39	128.42
28	C	516	DGD	O2D-C2D-C1D	-2.15	104.95	110.08
31	E	101	HEM	C3D-C4D-ND	-2.15	107.81	110.17
22	b	616	BCR	C24-C25-C26	-2.15	116.61	121.56
20	C	513	CLA	CHC-C1C-C2C	-2.14	120.86	126.95
31	v	201	HEM	CMB-C2B-C1B	-2.14	121.69	125.03
32	h	102	RRX	C1-C6-C5	-2.14	119.71	122.64
21	A	406	PHO	C5-C3-C2	2.14	125.97	121.17
20	c	504	CLA	C4-C3-C5	2.14	118.94	115.23
20	c	513	CLA	CHC-C1C-C2C	-2.14	120.88	126.95
20	B	615	CLA	C3C-C4C-NC	2.13	113.17	110.43
20	C	510	CLA	CHB-C4A-NA	2.13	127.48	124.40
20	B	609	CLA	C4D-C3D-CAD	2.13	110.42	108.11
20	C	505	CLA	C3C-C4C-NC	2.13	113.16	110.43
20	C	504	CLA	C11-C12-C13	-2.13	108.88	115.97
21	d	402	PHO	C3B-C4B-NB	-2.13	106.07	107.46
32	H	102	RRX	C1-C6-C5	-2.13	119.72	122.64
20	b	605	CLA	C4-C3-C5	2.13	118.93	115.23
22	b	616	BCR	C33-C5-C4	2.13	118.14	113.60
21	a	406	PHO	C5-C3-C2	2.13	125.94	121.17
20	C	504	CLA	C4-C3-C5	2.13	118.92	115.23
31	E	101	HEM	C3B-C2B-C1B	2.13	108.01	106.41
20	c	504	CLA	C11-C12-C13	-2.12	108.91	115.97
31	V	201	HEM	CMB-C2B-C1B	-2.12	121.72	125.03
31	V	201	HEM	C2A-C1A-NA	-2.12	107.80	110.15
20	b	608	CLA	C4D-C3D-CAD	2.12	110.41	108.11
22	B	616	BCR	C33-C5-C4	2.12	118.11	113.60
20	c	510	CLA	CHB-C4A-NA	2.12	127.46	124.40
20	B	605	CLA	CBA-CAA-C2A	2.12	120.09	113.79
20	B	605	CLA	C4-C3-C5	2.12	118.90	115.23
28	C	516	DGD	C7B-C6B-C5B	-2.12	103.67	114.37
28	c	516	DGD	C7B-C6B-C5B	-2.12	103.67	114.37
20	B	608	CLA	C4D-C3D-CAD	2.11	110.40	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	b	605	CLA	CBA-CAA-C2A	2.11	120.08	113.79
22	b	618	BCR	C4-C5-C6	-2.11	119.85	122.70
20	c	505	CLA	C3C-C4C-NC	2.11	113.13	110.43
31	v	201	HEM	C2A-C1A-NA	-2.11	107.81	110.15
20	b	612	CLA	CAC-C3C-C4C	2.11	127.53	124.79
20	h	101	CLA	O1D-CGD-CBD	-2.11	120.36	124.52
20	B	612	CLA	CAC-C3C-C4C	2.11	127.53	124.79
22	B	618	BCR	C4-C5-C6	-2.11	119.86	122.70
20	A	407	CLA	CAC-C3C-C4C	2.10	127.53	124.79
20	B	603	CLA	CAC-C3C-C4C	2.10	127.53	124.79
20	C	505	CLA	CMD-C2D-C3D	-2.10	122.86	127.69
31	e	101	HEM	C3B-C2B-C1B	2.10	107.99	106.41
20	b	614	CLA	C1-O2A-CGA	2.10	121.74	116.65
20	c	505	CLA	CMD-C2D-C3D	-2.10	122.87	127.69
20	b	611	CLA	CHB-C1B-C2B	-2.10	121.33	127.43
20	b	612	CLA	C4D-C3D-CAD	2.10	110.39	108.11
22	b	618	BCR	C27-C26-C25	-2.10	119.86	122.70
21	A	406	PHO	CMA-C3A-C4A	-2.10	110.08	114.61
26	L	101	LHG	C5-O7-C7	-2.10	112.77	117.80
20	H	101	CLA	O1D-CGD-CBD	-2.10	120.38	124.52
20	c	512	CLA	C5-C3-C4	2.10	119.42	114.59
26	l	101	LHG	C5-O7-C7	-2.10	112.78	117.80
21	a	406	PHO	CMA-C3A-C4A	-2.10	110.09	114.61
22	c	515	BCR	C23-C22-C21	2.10	122.31	119.01
20	a	407	CLA	CAC-C3C-C4C	2.10	127.52	124.79
27	c	508	F6C	CAC-C3C-C4C	2.10	127.80	124.91
20	c	504	CLA	CMD-C2D-C3D	-2.09	122.89	127.69
20	B	611	CLA	CHB-C1B-C2B	-2.09	121.35	127.43
20	B	614	CLA	C1-O2A-CGA	2.09	121.72	116.65
20	C	510	CLA	O1D-CGD-CBD	-2.09	120.39	124.52
31	V	201	HEM	CHC-C1C-NC	2.09	126.73	124.45
31	v	201	HEM	CHC-C1C-NC	2.09	126.73	124.45
20	C	512	CLA	C3C-C4C-NC	2.09	113.11	110.43
20	B	609	CLA	CAA-C2A-C1A	2.09	118.83	111.97
20	B	611	CLA	C1-O2A-CGA	2.09	121.71	116.65
22	b	616	BCR	C33-C5-C6	-2.09	122.21	124.48
27	B	604	F6C	CHA-C1A-NA	-2.09	120.70	124.63
20	B	612	CLA	CHC-C1C-NC	-2.09	121.17	124.31
20	C	512	CLA	C5-C3-C4	2.09	119.39	114.59
20	b	609	CLA	CAA-C2A-C1A	2.09	118.81	111.97
20	a	405	CLA	O2D-CGD-O1D	-2.09	119.79	123.85
20	c	502	CLA	C7-C6-C5	-2.09	107.70	113.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	C	504	CLA	CMD-C2D-C3D	-2.09	122.91	127.69
20	c	507	CLA	C6-C5-C3	-2.09	108.39	113.47
22	C	515	BCR	C23-C22-C21	2.09	122.29	119.01
27	c	508	F6C	CHC-C1C-C2C	-2.08	121.37	127.43
20	b	612	CLA	CHC-C1C-NC	-2.08	121.17	124.31
27	b	607	F6C	CHC-C1C-C2C	-2.08	121.38	127.43
20	c	510	CLA	O1D-CGD-CBD	-2.08	120.41	124.52
22	B	618	BCR	C27-C26-C25	-2.08	119.89	122.70
20	B	614	CLA	C4D-C3D-CAD	2.08	110.37	108.11
20	b	609	CLA	C4D-C3D-CAD	2.08	110.37	108.11
20	b	614	CLA	C4D-C3D-CAD	2.08	110.37	108.11
30	D	409	LMG	O7-C10-O9	-2.08	118.84	123.70
20	C	502	CLA	C7-C6-C5	-2.08	107.72	113.26
27	C	508	F6C	CAC-C3C-C4C	2.08	127.77	124.91
27	B	607	F6C	CHC-C1C-C2C	-2.08	121.39	127.43
20	a	405	CLA	CED-O2D-CGD	2.08	120.63	115.92
20	B	608	CLA	CHB-C1B-C2B	-2.08	121.40	127.43
20	C	507	CLA	C6-C5-C3	-2.08	108.41	113.47
20	B	609	CLA	CHC-C4B-NB	2.08	127.16	124.05
20	b	609	CLA	CHC-C4B-NB	2.08	127.16	124.05
20	b	608	CLA	CHB-C1B-C2B	-2.07	121.40	127.43
20	B	610	CLA	C3C-C4C-NC	2.07	113.09	110.43
22	b	616	BCR	C30-C25-C26	-2.07	119.80	122.64
20	b	610	CLA	CHA-C1A-NA	-2.07	121.70	126.39
20	B	610	CLA	CMD-C2D-C3D	-2.07	122.94	127.69
32	H	102	RRX	C30-C25-C26	-2.07	119.80	122.64
20	b	611	CLA	C1-O2A-CGA	2.07	121.67	116.65
27	C	508	F6C	CHC-C1C-C2C	-2.07	121.41	127.43
20	b	610	CLA	CMD-C2D-C3D	-2.07	122.94	127.69
20	b	601	CLA	O1D-CGD-CBD	-2.07	120.43	124.52
30	d	409	LMG	O7-C10-O9	-2.07	118.86	123.70
20	B	612	CLA	C4D-C3D-CAD	2.07	110.36	108.11
31	V	201	HEM	CBA-CAA-C2A	-2.07	106.81	112.53
22	b	617	BCR	C35-C13-C12	2.07	121.25	118.09
22	B	616	BCR	C33-C5-C6	-2.07	122.23	124.48
20	B	612	CLA	O1D-CGD-CBD	-2.07	120.44	124.52
20	c	512	CLA	C3C-C4C-NC	2.07	113.08	110.43
20	b	603	CLA	CAC-C3C-C4C	2.07	127.48	124.79
22	B	617	BCR	C35-C13-C12	2.07	121.24	118.09
20	b	608	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
20	b	603	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
20	A	405	CLA	CED-O2D-CGD	2.06	120.60	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	b	612	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
20	b	611	CLA	CMD-C2D-C3D	-2.06	122.96	127.69
27	b	604	F6C	CHA-C1A-NA	-2.06	120.75	124.63
22	B	616	BCR	C30-C25-C26	-2.06	119.82	122.64
31	v	201	HEM	CBA-CAA-C2A	-2.06	106.84	112.53
20	B	610	CLA	CHA-C1A-NA	-2.06	121.73	126.39
29	d	401	CL7	CHB-C1B-C2B	-2.06	121.45	127.43
29	D	401	CL7	CHB-C1B-C2B	-2.06	121.45	127.43
20	A	405	CLA	O2D-CGD-O1D	-2.06	119.84	123.85
27	B	604	F6C	C4C-C3C-C2C	-2.06	103.69	106.87
20	B	611	CLA	CMD-C2D-C3D	-2.06	122.98	127.69
20	B	608	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
20	C	509	CLA	CHC-C1C-C2C	-2.05	121.11	126.95
20	c	513	CLA	CMC-C2C-C1C	2.05	128.24	125.03
20	b	611	CLA	CBC-CAC-C3C	-2.05	106.86	112.42
24	A	410	PL9	C7-C8-C9	-2.05	123.30	126.83
20	C	510	CLA	C4C-C3C-C2C	-2.05	103.90	106.89
27	b	604	F6C	C4C-C3C-C2C	-2.05	103.69	106.87
20	c	502	CLA	CHB-C1B-C2B	-2.05	121.47	127.43
20	B	601	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
20	B	603	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
23	l	102	SQD	O5-C5-C4	2.05	113.39	109.70
20	C	513	CLA	CMC-C2C-C1C	2.05	128.24	125.03
20	c	509	CLA	CMB-C2B-C1B	-2.05	122.30	125.42
20	B	612	CLA	C16-C15-C13	-2.05	109.15	115.97
20	b	612	CLA	C16-C15-C13	-2.05	109.15	115.97
31	v	201	HEM	CHD-C4C-C3C	2.05	128.66	125.21
27	b	604	F6C	CHA-C1A-C2A	-2.05	124.91	130.41
32	h	102	RRX	C30-C25-C26	-2.05	119.84	122.64
23	L	102	SQD	O5-C5-C4	2.04	113.38	109.70
20	C	509	CLA	CMB-C2B-C1B	-2.04	122.31	125.42
20	d	404	CLA	C3C-C4C-NC	2.04	113.05	110.43
20	c	509	CLA	CHC-C1C-C2C	-2.04	121.14	126.95
20	c	510	CLA	C4C-C3C-C2C	-2.04	103.92	106.89
20	C	502	CLA	CHB-C1B-C2B	-2.04	121.50	127.43
20	b	608	CLA	C3D-C4D-ND	2.04	113.31	109.99
21	a	406	PHO	C4B-NB-C1B	2.04	111.79	108.82
20	c	504	CLA	C4D-C3D-CAD	2.04	110.32	108.11
22	b	618	BCR	C28-C27-C26	-2.04	110.42	114.06
31	V	201	HEM	CHD-C4C-C3C	2.04	128.65	125.21
28	C	516	DGD	O5D-C6D-C5D	-2.04	104.82	109.42
20	b	605	CLA	C3B-C4B-NB	2.04	112.35	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	a	410	PL9	C7-C8-C9	-2.04	123.32	126.83
20	B	610	CLA	CHB-C1B-C2B	-2.04	121.51	127.43
20	B	605	CLA	C3B-C4B-NB	2.04	112.35	110.53
20	C	511	CLA	CHC-C1C-C2C	-2.04	121.16	126.95
31	V	201	HEM	C3D-C4D-ND	-2.04	107.94	110.17
31	v	201	HEM	C3D-C4D-ND	-2.04	107.94	110.17
27	B	604	F6C	CHA-C1A-C2A	-2.04	124.93	130.41
20	c	511	CLA	CHC-C1C-C2C	-2.04	121.16	126.95
20	b	610	CLA	C3C-C4C-NC	2.04	113.04	110.43
20	C	504	CLA	C4D-C3D-CAD	2.04	110.32	108.11
20	c	506	CLA	CAC-C3C-C4C	2.04	127.44	124.79
21	A	406	PHO	C4B-NB-C1B	2.03	111.78	108.82
20	B	611	CLA	CBC-CAC-C3C	-2.03	106.91	112.42
20	C	506	CLA	CAC-C3C-C4C	2.03	127.44	124.79
20	b	601	CLA	CAC-C3C-C4C	2.03	127.44	124.79
22	B	618	BCR	C28-C27-C26	-2.03	110.43	114.06
28	C	516	DGD	CBB-CAB-C9B	-2.03	104.10	114.37
28	c	516	DGD	CBB-CAB-C9B	-2.03	104.10	114.37
20	b	610	CLA	CHB-C1B-C2B	-2.03	121.53	127.43
20	c	506	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
20	C	504	CLA	CHA-C1A-NA	-2.03	121.79	126.39
28	c	516	DGD	O5D-C6D-C5D	-2.03	104.84	109.42
27	b	607	F6C	CAC-C3C-C4C	2.03	127.70	124.91
28	C	516	DGD	C1D-C2D-C3D	-2.03	105.74	110.01
22	b	616	BCR	C35-C13-C12	2.03	121.19	118.09
20	C	506	CLA	O1D-CGD-CBD	-2.03	120.52	124.52
20	A	405	CLA	O1D-CGD-CBD	-2.03	120.52	124.52
27	b	607	F6C	O1D-CGD-CBD	-2.03	120.52	124.52
28	c	516	DGD	C1D-C2D-C3D	-2.03	105.75	110.01
22	B	616	BCR	C35-C13-C12	2.03	121.18	118.09
20	a	405	CLA	O1D-CGD-CBD	-2.03	120.52	124.52
20	C	511	CLA	CAC-C3C-C2C	2.03	131.28	127.56
27	B	607	F6C	O1D-CGD-CBD	-2.02	120.53	124.52
24	D	406	PL9	C41-C39-C40	2.02	119.24	114.59
24	d	406	PL9	C41-C39-C40	2.02	119.24	114.59
20	D	404	CLA	C3C-C4C-NC	2.02	113.02	110.43
20	c	504	CLA	CHA-C1A-NA	-2.02	121.82	126.39
20	a	405	CLA	C5-C3-C4	2.02	119.23	114.59
22	b	616	BCR	C34-C9-C8	2.02	121.17	118.09
20	b	602	CLA	CAC-C3C-C4C	2.01	127.41	124.79
20	A	405	CLA	C5-C3-C4	2.01	119.22	114.59
20	c	511	CLA	CAC-C3C-C2C	2.01	131.26	127.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	c	516	DGD	C3G-C2G-C1G	-2.01	107.09	111.78
20	A	405	CLA	C3C-C4C-NC	2.01	113.01	110.43
20	a	405	CLA	C3C-C4C-NC	2.01	113.01	110.43
20	B	608	CLA	C3D-C4D-ND	2.01	113.25	109.99
31	E	101	HEM	CMB-C2B-C1B	-2.01	121.89	125.03
22	d	405	BCR	C33-C5-C6	-2.01	122.29	124.48
27	B	607	F6C	CAC-C3C-C4C	2.01	127.67	124.91
20	b	611	CLA	C3D-C4D-ND	2.01	113.25	109.99
20	B	601	CLA	CAC-C3C-C4C	2.01	127.40	124.79
20	C	505	CLA	CHC-C1C-C2C	-2.01	121.24	126.95
20	B	605	CLA	O2D-CGD-O1D	-2.01	119.94	123.85
20	B	611	CLA	C3D-C4D-ND	2.01	113.25	109.99
28	C	516	DGD	C3G-C2G-C1G	-2.01	107.11	111.78
20	c	505	CLA	CHC-C1C-C2C	-2.01	121.25	126.95
31	e	101	HEM	CMB-C2B-C1B	-2.00	121.90	125.03
20	H	101	CLA	C1-O2A-CGA	2.00	121.50	116.65
20	d	404	CLA	C4C-C3C-C2C	-2.00	103.98	106.89
20	b	605	CLA	O2D-CGD-O1D	-2.00	119.95	123.85
26	d	408	LHG	O4-P-O5	2.00	121.75	112.44
20	A	407	CLA	O1D-CGD-CBD	-2.00	120.57	124.52

All (12) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
27	B	604	F6C	NA
27	B	607	F6C	NA
27	B	613	F6C	NA
27	C	508	F6C	NA
27	b	604	F6C	NA
27	b	607	F6C	NA
27	b	613	F6C	NA
27	c	508	F6C	NA
29	D	401	CL7	NC
29	D	401	CL7	NA
29	d	401	CL7	NC
29	d	401	CL7	NA

All (1460) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
20	A	404	CLA	CBD-CGD-O2D-CED
20	A	404	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
20	A	405	CLA	CBA-CGA-O2A-C1
20	A	405	CLA	O1A-CGA-O2A-C1
20	B	601	CLA	CAD-CBD-CGD-O1D
20	B	601	CLA	CAD-CBD-CGD-O2D
20	B	602	CLA	C4B-C3B-CAB-CBB
20	B	602	CLA	O2A-C1-C2-C3
20	B	605	CLA	C1A-C2A-CAA-CBA
20	B	606	CLA	CBD-CGD-O2D-CED
20	B	608	CLA	C3A-C2A-CAA-CBA
20	B	610	CLA	C1A-C2A-CAA-CBA
20	B	611	CLA	CBD-CGD-O2D-CED
20	B	612	CLA	CAD-CBD-CGD-O1D
20	B	612	CLA	CAD-CBD-CGD-O2D
20	B	615	CLA	C2B-C3B-CAB-CBB
20	B	615	CLA	C4B-C3B-CAB-CBB
20	C	504	CLA	CBD-CGD-O2D-CED
20	C	505	CLA	CAD-CBD-CGD-O1D
20	C	505	CLA	CAD-CBD-CGD-O2D
20	C	506	CLA	C2B-C3B-CAB-CBB
20	C	506	CLA	C4B-C3B-CAB-CBB
20	C	507	CLA	CBD-CGD-O2D-CED
20	C	510	CLA	C2-C1-O2A-CGA
20	C	510	CLA	C6-C7-C8-C9
20	C	513	CLA	C2B-C3B-CAB-CBB
20	C	513	CLA	C4B-C3B-CAB-CBB
20	C	513	CLA	CAD-CBD-CGD-O1D
20	C	513	CLA	CAD-CBD-CGD-O2D
20	a	404	CLA	CBD-CGD-O2D-CED
20	a	404	CLA	O1D-CGD-O2D-CED
20	a	405	CLA	CBA-CGA-O2A-C1
20	a	405	CLA	O1A-CGA-O2A-C1
20	b	601	CLA	CAD-CBD-CGD-O1D
20	b	601	CLA	CAD-CBD-CGD-O2D
20	b	602	CLA	C4B-C3B-CAB-CBB
20	b	602	CLA	O2A-C1-C2-C3
20	b	605	CLA	C1A-C2A-CAA-CBA
20	b	606	CLA	CBD-CGD-O2D-CED
20	b	608	CLA	C3A-C2A-CAA-CBA
20	b	610	CLA	C1A-C2A-CAA-CBA
20	b	611	CLA	CBD-CGD-O2D-CED
20	b	612	CLA	CAD-CBD-CGD-O1D
20	b	612	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
20	b	615	CLA	C2B-C3B-CAB-CBB
20	b	615	CLA	C4B-C3B-CAB-CBB
20	c	504	CLA	CBD-CGD-O2D-CED
20	c	505	CLA	CAD-CBD-CGD-O1D
20	c	505	CLA	CAD-CBD-CGD-O2D
20	c	506	CLA	C2B-C3B-CAB-CBB
20	c	506	CLA	C4B-C3B-CAB-CBB
20	c	507	CLA	CBD-CGD-O2D-CED
20	c	510	CLA	C2-C1-O2A-CGA
20	c	510	CLA	C6-C7-C8-C9
20	c	513	CLA	C2B-C3B-CAB-CBB
20	c	513	CLA	C4B-C3B-CAB-CBB
20	c	513	CLA	CAD-CBD-CGD-O1D
20	c	513	CLA	CAD-CBD-CGD-O2D
21	A	406	PHO	C4-C3-C5-C6
21	a	406	PHO	C4-C3-C5-C6
22	B	616	BCR	C7-C8-C9-C10
22	B	616	BCR	C11-C10-C9-C8
22	B	616	BCR	C11-C10-C9-C34
22	B	616	BCR	C10-C11-C12-C13
22	B	616	BCR	C17-C18-C19-C20
22	B	617	BCR	C7-C8-C9-C10
22	B	617	BCR	C7-C8-C9-C34
22	B	618	BCR	C7-C8-C9-C10
22	B	618	BCR	C7-C8-C9-C34
22	B	618	BCR	C11-C10-C9-C8
22	B	618	BCR	C11-C10-C9-C34
22	B	618	BCR	C21-C22-C23-C24
22	B	618	BCR	C37-C22-C23-C24
22	C	515	BCR	C5-C6-C7-C8
22	C	518	BCR	C11-C12-C13-C14
22	C	518	BCR	C11-C12-C13-C35
22	D	405	BCR	C11-C10-C9-C8
22	D	405	BCR	C11-C10-C9-C34
22	D	405	BCR	C36-C18-C19-C20
22	b	616	BCR	C7-C8-C9-C10
22	b	616	BCR	C11-C10-C9-C8
22	b	616	BCR	C11-C10-C9-C34
22	b	616	BCR	C10-C11-C12-C13
22	b	616	BCR	C17-C18-C19-C20
22	b	616	BCR	C36-C18-C19-C20
22	b	617	BCR	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
22	b	617	BCR	C7-C8-C9-C34
22	b	618	BCR	C7-C8-C9-C10
22	b	618	BCR	C7-C8-C9-C34
22	b	618	BCR	C11-C10-C9-C8
22	b	618	BCR	C11-C10-C9-C34
22	b	618	BCR	C21-C22-C23-C24
22	b	618	BCR	C37-C22-C23-C24
22	c	515	BCR	C5-C6-C7-C8
22	c	518	BCR	C11-C12-C13-C14
22	c	518	BCR	C11-C12-C13-C35
22	d	405	BCR	C11-C10-C9-C8
22	d	405	BCR	C11-C10-C9-C34
22	d	405	BCR	C36-C18-C19-C20
23	A	409	SQD	C8-C7-O47-C45
23	A	409	SQD	O5-C5-C6-S
23	L	102	SQD	C8-C7-O47-C45
23	L	102	SQD	C5-C6-S-O7
23	a	409	SQD	C8-C7-O47-C45
23	a	409	SQD	O5-C5-C6-S
23	l	102	SQD	C8-C7-O47-C45
23	l	102	SQD	C5-C6-S-O7
24	A	410	PL9	C7-C8-C9-C10
24	A	410	PL9	C7-C8-C9-C11
24	A	410	PL9	C12-C13-C14-C15
24	D	406	PL9	C7-C8-C9-C11
24	D	406	PL9	C20-C19-C21-C22
24	D	406	PL9	C27-C28-C29-C30
24	D	406	PL9	C27-C28-C29-C31
24	D	406	PL9	C32-C33-C34-C35
24	D	406	PL9	C32-C33-C34-C36
24	D	406	PL9	C37-C38-C39-C40
24	a	410	PL9	C7-C8-C9-C10
24	a	410	PL9	C7-C8-C9-C11
24	a	410	PL9	C12-C13-C14-C15
24	d	406	PL9	C7-C8-C9-C11
24	d	406	PL9	C20-C19-C21-C22
24	d	406	PL9	C27-C28-C29-C30
24	d	406	PL9	C27-C28-C29-C31
24	d	406	PL9	C32-C33-C34-C35
24	d	406	PL9	C32-C33-C34-C36
24	d	406	PL9	C37-C38-C39-C40
26	A	412	LHG	C4-O6-P-O3

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Mol	Chain	Res	Type	Atoms
26	A	412	LHG	C4-O6-P-O4
26	A	412	LHG	C24-C23-O8-C6
26	D	407	LHG	C4-O6-P-O3
26	D	407	LHG	C4-O6-P-O4
26	D	407	LHG	C4-O6-P-O5
26	D	408	LHG	C3-O3-P-O5
26	D	408	LHG	C3-O3-P-O6
26	D	408	LHG	C8-C7-O7-C5
26	L	101	LHG	O1-C1-C2-C3
26	L	101	LHG	C4-O6-P-O3
26	a	412	LHG	C4-O6-P-O3
26	a	412	LHG	C4-O6-P-O4
26	a	412	LHG	C24-C23-O8-C6
26	d	407	LHG	C4-O6-P-O3
26	d	407	LHG	C4-O6-P-O4
26	d	407	LHG	C4-O6-P-O5
26	d	408	LHG	C3-O3-P-O5
26	d	408	LHG	C3-O3-P-O6
26	d	408	LHG	C8-C7-O7-C5
26	l	101	LHG	O1-C1-C2-C3
26	l	101	LHG	C4-O6-P-O3
27	B	604	F6C	C1A-C2A-CAA-CBA
27	B	604	F6C	C1B-C2B-CMB-OMB
27	B	604	F6C	C3B-C2B-CMB-OMB
27	B	604	F6C	C4-C3-C5-C6
27	B	607	F6C	C1A-C2A-CAA-CBA
27	B	607	F6C	CAD-CBD-CGD-O1D
27	B	607	F6C	CAD-CBD-CGD-O2D
27	B	607	F6C	C3B-C2B-CMB-OMB
27	B	607	F6C	C2-C1-O2A-CGA
27	B	613	F6C	C1A-C2A-CAA-CBA
27	B	613	F6C	C1B-C2B-CMB-OMB
27	B	613	F6C	C3B-C2B-CMB-OMB
27	B	613	F6C	C11-C12-C13-C14
27	C	508	F6C	C2B-C3B-CAB-CBB
27	C	508	F6C	CHA-CBD-CGD-O2D
27	C	508	F6C	CBD-CGD-O2D-CED
27	b	604	F6C	C1A-C2A-CAA-CBA
27	b	604	F6C	C1B-C2B-CMB-OMB
27	b	604	F6C	C3B-C2B-CMB-OMB
27	b	604	F6C	C4-C3-C5-C6
27	b	607	F6C	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
27	b	607	F6C	CAD-CBD-CGD-O1D
27	b	607	F6C	CAD-CBD-CGD-O2D
27	b	607	F6C	C3B-C2B-CMB-OMB
27	b	607	F6C	C2-C1-O2A-CGA
27	b	613	F6C	C1A-C2A-CAA-CBA
27	b	613	F6C	C1B-C2B-CMB-OMB
27	b	613	F6C	C3B-C2B-CMB-OMB
27	b	613	F6C	C11-C12-C13-C14
27	c	508	F6C	C2B-C3B-CAB-CBB
27	c	508	F6C	CHA-CBD-CGD-O2D
27	c	508	F6C	CBD-CGD-O2D-CED
29	D	401	CL7	C2-C1-O2A-CGA
29	D	401	CL7	C1A-C2A-CAA-CBA
29	D	401	CL7	C3A-C2A-CAA-CBA
29	d	401	CL7	C2-C1-O2A-CGA
29	d	401	CL7	C1A-C2A-CAA-CBA
29	d	401	CL7	C3A-C2A-CAA-CBA
32	H	102	RRX	C22-C23-C24-C25
32	H	102	RRX	C21-C22-C23-C24
32	H	102	RRX	C20-C21-C22-C23
32	H	102	RRX	C20-C21-C22-C37
32	H	102	RRX	C16-C17-C18-C19
32	H	102	RRX	C16-C17-C18-C36
32	H	102	RRX	C35-C13-C14-C15
32	H	102	RRX	C12-C13-C14-C15
32	H	102	RRX	C11-C10-C9-C34
32	H	102	RRX	C11-C10-C9-C8
32	H	102	RRX	C6-C7-C8-C9
32	h	102	RRX	C22-C23-C24-C25
32	h	102	RRX	C21-C22-C23-C24
32	h	102	RRX	C20-C21-C22-C23
32	h	102	RRX	C20-C21-C22-C37
32	h	102	RRX	C16-C17-C18-C19
32	h	102	RRX	C16-C17-C18-C36
32	h	102	RRX	C35-C13-C14-C15
32	h	102	RRX	C12-C13-C14-C15
32	h	102	RRX	C11-C10-C9-C34
32	h	102	RRX	C11-C10-C9-C8
32	h	102	RRX	C6-C7-C8-C9
20	C	507	CLA	C4C-C3C-CAC-CBC
20	c	507	CLA	C4C-C3C-CAC-CBC
20	C	514	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
20	c	514	CLA	O1D-CGD-O2D-CED
20	B	610	CLA	CBD-CGD-O2D-CED
20	B	612	CLA	CBD-CGD-O2D-CED
20	C	511	CLA	CBD-CGD-O2D-CED
20	C	514	CLA	CBD-CGD-O2D-CED
20	b	610	CLA	CBD-CGD-O2D-CED
20	b	612	CLA	CBD-CGD-O2D-CED
20	c	511	CLA	CBD-CGD-O2D-CED
20	c	514	CLA	CBD-CGD-O2D-CED
26	A	412	LHG	O10-C23-O8-C6
26	a	412	LHG	O10-C23-O8-C6
20	C	507	CLA	C2C-C3C-CAC-CBC
20	c	507	CLA	C2C-C3C-CAC-CBC
24	A	410	PL9	C12-C13-C14-C16
24	D	406	PL9	C37-C38-C39-C41
24	a	410	PL9	C12-C13-C14-C16
24	d	406	PL9	C37-C38-C39-C41
20	H	101	CLA	CBD-CGD-O2D-CED
20	h	101	CLA	CBD-CGD-O2D-CED
20	B	603	CLA	O1A-CGA-O2A-C1
20	b	603	CLA	O1A-CGA-O2A-C1
28	C	517	DGD	O1A-C1A-O1G-C1G
28	c	517	DGD	O1A-C1A-O1G-C1G
20	B	611	CLA	O1D-CGD-O2D-CED
20	b	611	CLA	O1D-CGD-O2D-CED
20	B	606	CLA	O1D-CGD-O2D-CED
20	C	507	CLA	O1D-CGD-O2D-CED
20	b	606	CLA	O1D-CGD-O2D-CED
20	c	507	CLA	O1D-CGD-O2D-CED
27	C	508	F6C	O1D-CGD-O2D-CED
27	c	508	F6C	O1D-CGD-O2D-CED
20	C	506	CLA	O1A-CGA-O2A-C1
20	c	506	CLA	O1A-CGA-O2A-C1
23	A	409	SQD	O49-C7-O47-C45
23	L	102	SQD	O49-C7-O47-C45
23	a	409	SQD	O49-C7-O47-C45
23	l	102	SQD	O49-C7-O47-C45
26	D	408	LHG	O9-C7-O7-C5
26	d	408	LHG	O9-C7-O7-C5
20	B	610	CLA	C3-C5-C6-C7
20	b	610	CLA	C3-C5-C6-C7
21	A	406	PHO	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
21	a	406	PHO	C3-C5-C6-C7
27	B	604	F6C	C3-C5-C6-C7
27	b	604	F6C	C3-C5-C6-C7
29	D	401	CL7	C3-C5-C6-C7
29	d	401	CL7	C3-C5-C6-C7
27	C	508	F6C	CBA-CGA-O2A-C1
27	c	508	F6C	CBA-CGA-O2A-C1
28	C	517	DGD	C2A-C1A-O1G-C1G
28	c	517	DGD	C2A-C1A-O1G-C1G
29	D	401	CL7	CBA-CGA-O2A-C1
29	d	401	CL7	CBA-CGA-O2A-C1
20	B	603	CLA	CBD-CGD-O2D-CED
20	B	608	CLA	CBD-CGD-O2D-CED
20	B	609	CLA	CBD-CGD-O2D-CED
20	C	503	CLA	CBD-CGD-O2D-CED
20	C	512	CLA	CBD-CGD-O2D-CED
20	C	513	CLA	CBD-CGD-O2D-CED
20	b	603	CLA	CBD-CGD-O2D-CED
20	b	608	CLA	CBD-CGD-O2D-CED
20	b	609	CLA	CBD-CGD-O2D-CED
20	c	503	CLA	CBD-CGD-O2D-CED
20	c	512	CLA	CBD-CGD-O2D-CED
20	c	513	CLA	CBD-CGD-O2D-CED
27	B	613	F6C	CBD-CGD-O2D-CED
27	b	613	F6C	CBD-CGD-O2D-CED
20	B	612	CLA	O1D-CGD-O2D-CED
20	C	504	CLA	O1D-CGD-O2D-CED
20	c	504	CLA	O1D-CGD-O2D-CED
20	b	612	CLA	O1D-CGD-O2D-CED
20	B	614	CLA	C4-C3-C5-C6
20	b	614	CLA	C4-C3-C5-C6
21	A	406	PHO	C2-C3-C5-C6
21	a	406	PHO	C2-C3-C5-C6
24	D	406	PL9	C12-C11-C9-C8
24	d	406	PL9	C12-C11-C9-C8
20	C	510	CLA	C2A-CAA-CBA-CGA
20	c	510	CLA	C2A-CAA-CBA-CGA
20	C	510	CLA	O1A-CGA-O2A-C1
20	c	510	CLA	O1A-CGA-O2A-C1
23	A	409	SQD	O10-C23-O48-C46
23	a	409	SQD	O10-C23-O48-C46
20	B	606	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
20	B	615	CLA	C3-C5-C6-C7
20	b	606	CLA	C3-C5-C6-C7
20	b	615	CLA	C3-C5-C6-C7
27	B	613	F6C	C3-C5-C6-C7
27	b	613	F6C	C3-C5-C6-C7
20	B	603	CLA	CBA-CGA-O2A-C1
20	B	608	CLA	CBA-CGA-O2A-C1
20	B	610	CLA	CBA-CGA-O2A-C1
20	C	509	CLA	CBA-CGA-O2A-C1
20	C	510	CLA	CBA-CGA-O2A-C1
20	C	511	CLA	CBA-CGA-O2A-C1
20	C	512	CLA	CBA-CGA-O2A-C1
20	H	101	CLA	CBA-CGA-O2A-C1
20	b	603	CLA	CBA-CGA-O2A-C1
20	b	608	CLA	CBA-CGA-O2A-C1
20	b	610	CLA	CBA-CGA-O2A-C1
20	c	509	CLA	CBA-CGA-O2A-C1
20	c	510	CLA	CBA-CGA-O2A-C1
20	c	511	CLA	CBA-CGA-O2A-C1
20	c	512	CLA	CBA-CGA-O2A-C1
20	h	101	CLA	CBA-CGA-O2A-C1
30	M	101	LMG	C4-C5-C6-O5
30	m	101	LMG	C4-C5-C6-O5
22	B	618	BCR	C15-C16-C17-C18
22	b	618	BCR	C15-C16-C17-C18
27	C	508	F6C	O1A-CGA-O2A-C1
27	c	508	F6C	O1A-CGA-O2A-C1
29	D	401	CL7	O1A-CGA-O2A-C1
29	d	401	CL7	O1A-CGA-O2A-C1
20	C	510	CLA	C8-C10-C11-C12
20	c	510	CLA	C8-C10-C11-C12
20	C	503	CLA	C3-C5-C6-C7
20	c	503	CLA	C3-C5-C6-C7
20	B	605	CLA	CBA-CGA-O2A-C1
20	b	605	CLA	CBA-CGA-O2A-C1
20	B	608	CLA	O1A-CGA-O2A-C1
20	C	511	CLA	O1A-CGA-O2A-C1
20	H	101	CLA	O1A-CGA-O2A-C1
20	b	608	CLA	O1A-CGA-O2A-C1
20	c	511	CLA	O1A-CGA-O2A-C1
20	h	101	CLA	O1A-CGA-O2A-C1
21	A	406	PHO	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
21	a	406	PHO	O1A-CGA-O2A-C1
30	M	101	LMG	C11-C10-O7-C8
30	m	101	LMG	C11-C10-O7-C8
20	C	507	CLA	C3-C5-C6-C7
20	C	511	CLA	C3-C5-C6-C7
20	c	507	CLA	C3-C5-C6-C7
20	c	511	CLA	C3-C5-C6-C7
20	C	511	CLA	O1D-CGD-O2D-CED
20	c	511	CLA	O1D-CGD-O2D-CED
20	C	506	CLA	CBA-CGA-O2A-C1
20	c	506	CLA	CBA-CGA-O2A-C1
21	A	406	PHO	CBA-CGA-O2A-C1
21	a	406	PHO	CBA-CGA-O2A-C1
23	A	409	SQD	C24-C23-O48-C46
23	a	409	SQD	C24-C23-O48-C46
20	B	614	CLA	C2-C3-C5-C6
20	b	614	CLA	C2-C3-C5-C6
24	D	406	PL9	C18-C19-C21-C22
24	d	406	PL9	C18-C19-C21-C22
27	B	604	F6C	C2-C3-C5-C6
27	b	604	F6C	C2-C3-C5-C6
20	B	605	CLA	O1A-CGA-O2A-C1
20	C	512	CLA	O1A-CGA-O2A-C1
20	b	605	CLA	O1A-CGA-O2A-C1
20	c	512	CLA	O1A-CGA-O2A-C1
24	D	406	PL9	C9-C11-C12-C13
24	d	406	PL9	C9-C11-C12-C13
21	D	402	PHO	CBD-CGD-O2D-CED
21	d	402	PHO	CBD-CGD-O2D-CED
20	B	610	CLA	O1D-CGD-O2D-CED
20	b	610	CLA	O1D-CGD-O2D-CED
27	B	604	F6C	C2A-CAA-CBA-CGA
27	b	604	F6C	C2A-CAA-CBA-CGA
31	E	101	HEM	C2A-CAA-CBA-CGA
31	e	101	HEM	C2A-CAA-CBA-CGA
20	C	509	CLA	O1A-CGA-O2A-C1
20	c	509	CLA	O1A-CGA-O2A-C1
23	L	102	SQD	O5-C1-O6-C44
23	l	102	SQD	O5-C1-O6-C44
28	C	517	DGD	O6D-C1D-O3G-C3G
30	D	409	LMG	O6-C5-C6-O5
30	M	101	LMG	O6-C5-C6-O5

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Mol	Chain	Res	Type	Atoms
30	d	409	LMG	O6-C5-C6-O5
30	m	101	LMG	O6-C5-C6-O5
20	B	602	CLA	CBA-CGA-O2A-C1
20	b	602	CLA	CBA-CGA-O2A-C1
20	D	403	CLA	CBD-CGD-O2D-CED
20	d	403	CLA	CBD-CGD-O2D-CED
21	A	406	PHO	CBD-CGD-O2D-CED
21	a	406	PHO	CBD-CGD-O2D-CED
20	B	605	CLA	CBD-CGD-O2D-CED
20	b	605	CLA	CBD-CGD-O2D-CED
22	b	616	BCR	C9-C10-C11-C12
32	H	102	RRX	C15-C16-C17-C18
32	h	102	RRX	C15-C16-C17-C18
20	B	610	CLA	O1A-CGA-O2A-C1
20	b	610	CLA	O1A-CGA-O2A-C1
30	M	101	LMG	O9-C10-O7-C8
30	m	101	LMG	O9-C10-O7-C8
26	L	101	LHG	C1-C2-C3-O3
26	l	101	LHG	C1-C2-C3-O3
20	H	101	CLA	O1D-CGD-O2D-CED
20	h	101	CLA	O1D-CGD-O2D-CED
20	B	612	CLA	CBA-CGA-O2A-C1
20	B	615	CLA	CBA-CGA-O2A-C1
20	C	507	CLA	CBA-CGA-O2A-C1
20	b	612	CLA	CBA-CGA-O2A-C1
20	b	615	CLA	CBA-CGA-O2A-C1
20	c	507	CLA	CBA-CGA-O2A-C1
20	B	608	CLA	O1D-CGD-O2D-CED
20	b	608	CLA	O1D-CGD-O2D-CED
20	B	603	CLA	C4-C3-C5-C6
20	b	603	CLA	C4-C3-C5-C6
27	C	508	F6C	C4-C3-C5-C6
27	c	508	F6C	C4-C3-C5-C6
20	B	603	CLA	C2-C3-C5-C6
20	b	603	CLA	C2-C3-C5-C6
27	C	508	F6C	C2-C3-C5-C6
27	c	508	F6C	C2-C3-C5-C6
20	B	605	CLA	C3-C5-C6-C7
20	b	605	CLA	C3-C5-C6-C7
20	B	605	CLA	C11-C12-C13-C14
20	B	610	CLA	C14-C13-C15-C16
20	b	605	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
20	b	610	CLA	C14-C13-C15-C16
27	B	607	F6C	C6-C7-C8-C9
27	B	613	F6C	C11-C10-C8-C9
27	C	508	F6C	C11-C10-C8-C9
27	b	607	F6C	C6-C7-C8-C9
27	b	613	F6C	C11-C10-C8-C9
27	c	508	F6C	C11-C10-C8-C9
26	D	408	LHG	O2-C2-C3-O3
26	d	408	LHG	O2-C2-C3-O3
22	B	616	BCR	C7-C8-C9-C34
22	B	616	BCR	C36-C18-C19-C20
22	b	616	BCR	C7-C8-C9-C34
32	H	102	RRX	C37-C22-C23-C24
32	h	102	RRX	C37-C22-C23-C24
26	D	408	LHG	C11-C10-C9-C8
26	d	408	LHG	C11-C10-C9-C8
20	C	507	CLA	O1A-CGA-O2A-C1
20	c	507	CLA	O1A-CGA-O2A-C1
28	C	517	DGD	O1B-C1B-O2G-C2G
28	c	517	DGD	O1B-C1B-O2G-C2G
26	A	412	LHG	O6-C4-C5-O7
26	a	412	LHG	O6-C4-C5-O7
20	B	612	CLA	C2-C1-O2A-CGA
20	C	504	CLA	C2-C1-O2A-CGA
20	b	612	CLA	C2-C1-O2A-CGA
20	c	504	CLA	C2-C1-O2A-CGA
20	C	503	CLA	O1D-CGD-O2D-CED
20	c	503	CLA	O1D-CGD-O2D-CED
23	A	409	SQD	C28-C29-C30-C31
23	a	409	SQD	C28-C29-C30-C31
20	C	504	CLA	C15-C16-C17-C18
20	c	504	CLA	C15-C16-C17-C18
21	A	406	PHO	C10-C11-C12-C13
21	a	406	PHO	C10-C11-C12-C13
21	D	402	PHO	C3-C5-C6-C7
21	d	402	PHO	C3-C5-C6-C7
20	C	513	CLA	O1D-CGD-O2D-CED
20	c	513	CLA	O1D-CGD-O2D-CED
20	b	603	CLA	O1D-CGD-O2D-CED
28	D	410	DGD	C1B-C2B-C3B-C4B
28	d	410	DGD	C1B-C2B-C3B-C4B
22	B	616	BCR	C9-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
20	B	603	CLA	O1D-CGD-O2D-CED
20	B	612	CLA	C10-C11-C12-C13
20	C	511	CLA	C10-C11-C12-C13
20	b	612	CLA	C10-C11-C12-C13
20	c	511	CLA	C10-C11-C12-C13
23	A	409	SQD	C23-C24-C25-C26
23	a	409	SQD	C23-C24-C25-C26
20	B	615	CLA	O1A-CGA-O2A-C1
20	b	615	CLA	O1A-CGA-O2A-C1
20	B	614	CLA	CBD-CGD-O2D-CED
20	b	614	CLA	CBD-CGD-O2D-CED
27	B	613	F6C	O1D-CGD-O2D-CED
27	b	613	F6C	O1D-CGD-O2D-CED
20	B	606	CLA	C5-C6-C7-C8
20	B	610	CLA	C8-C10-C11-C12
20	C	503	CLA	C5-C6-C7-C8
20	C	503	CLA	C15-C16-C17-C18
20	C	511	CLA	C15-C16-C17-C18
20	b	606	CLA	C5-C6-C7-C8
20	b	610	CLA	C8-C10-C11-C12
20	c	503	CLA	C5-C6-C7-C8
20	c	503	CLA	C15-C16-C17-C18
20	c	511	CLA	C15-C16-C17-C18
27	C	508	F6C	C8-C10-C11-C12
27	c	508	F6C	C8-C10-C11-C12
27	B	607	F6C	C2A-CAA-CBA-CGA
27	b	607	F6C	C2A-CAA-CBA-CGA
20	A	407	CLA	C2A-CAA-CBA-CGA
20	B	611	CLA	C2A-CAA-CBA-CGA
20	a	407	CLA	C2A-CAA-CBA-CGA
20	b	611	CLA	C2A-CAA-CBA-CGA
20	B	602	CLA	C13-C15-C16-C17
20	B	611	CLA	C13-C15-C16-C17
20	b	602	CLA	C13-C15-C16-C17
20	b	611	CLA	C13-C15-C16-C17
29	D	401	CL7	C15-C16-C17-C18
29	d	401	CL7	C15-C16-C17-C18
23	L	102	SQD	C7-C8-C9-C10
23	l	102	SQD	C7-C8-C9-C10
26	A	412	LHG	C23-C24-C25-C26
26	a	412	LHG	C23-C24-C25-C26
20	B	609	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
20	b	609	CLA	O1D-CGD-O2D-CED
28	c	517	DGD	O6D-C1D-O3G-C3G
20	B	602	CLA	C10-C11-C12-C13
20	b	602	CLA	C10-C11-C12-C13
27	B	607	F6C	C5-C6-C7-C8
27	b	607	F6C	C5-C6-C7-C8
20	B	603	CLA	C2C-C3C-CAC-CBC
20	b	603	CLA	C2C-C3C-CAC-CBC
20	C	506	CLA	C10-C11-C12-C13
20	c	506	CLA	C10-C11-C12-C13
20	C	512	CLA	O1D-CGD-O2D-CED
20	c	512	CLA	O1D-CGD-O2D-CED
20	B	602	CLA	O1A-CGA-O2A-C1
20	B	612	CLA	O1A-CGA-O2A-C1
20	b	602	CLA	O1A-CGA-O2A-C1
20	b	612	CLA	O1A-CGA-O2A-C1
26	A	412	LHG	C7-C8-C9-C10
26	a	412	LHG	C7-C8-C9-C10
27	B	607	F6C	CBA-CGA-O2A-C1
27	b	607	F6C	CBA-CGA-O2A-C1
27	B	604	F6C	C13-C15-C16-C17
27	b	604	F6C	C13-C15-C16-C17
20	B	601	CLA	C2A-CAA-CBA-CGA
20	b	601	CLA	C2A-CAA-CBA-CGA
29	D	401	CL7	C2A-CAA-CBA-CGA
29	d	401	CL7	C2A-CAA-CBA-CGA
20	C	504	CLA	CBA-CGA-O2A-C1
20	c	504	CLA	CBA-CGA-O2A-C1
20	B	608	CLA	C5-C6-C7-C8
20	B	612	CLA	C8-C10-C11-C12
20	B	612	CLA	C13-C15-C16-C17
20	C	502	CLA	C8-C10-C11-C12
20	C	503	CLA	C8-C10-C11-C12
20	C	504	CLA	C5-C6-C7-C8
20	C	511	CLA	C13-C15-C16-C17
20	b	608	CLA	C5-C6-C7-C8
20	b	612	CLA	C8-C10-C11-C12
20	b	612	CLA	C13-C15-C16-C17
20	c	502	CLA	C8-C10-C11-C12
20	c	503	CLA	C8-C10-C11-C12
20	c	504	CLA	C5-C6-C7-C8
20	c	511	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
28	C	517	DGD	C2D-C1D-O3G-C3G
28	c	517	DGD	C2D-C1D-O3G-C3G
29	D	401	CL7	C13-C15-C16-C17
29	d	401	CL7	C13-C15-C16-C17
26	L	101	LHG	C23-C24-C25-C26
26	l	101	LHG	C23-C24-C25-C26
26	L	101	LHG	O2-C2-C3-O3
26	l	101	LHG	O2-C2-C3-O3
20	C	509	CLA	C11-C12-C13-C14
20	c	509	CLA	C11-C12-C13-C14
22	A	408	BCR	C11-C10-C9-C34
22	a	408	BCR	C11-C10-C9-C34
20	d	404	CLA	CBD-CGD-O2D-CED
20	B	611	CLA	C8-C10-C11-C12
20	b	611	CLA	C8-C10-C11-C12
22	B	617	BCR	C11-C12-C13-C35
22	b	617	BCR	C11-C12-C13-C35
32	H	102	RRX	C36-C18-C19-C20
32	h	102	RRX	C36-C18-C19-C20
32	H	102	RRX	C17-C18-C19-C20
32	h	102	RRX	C17-C18-C19-C20
20	C	504	CLA	O1A-CGA-O2A-C1
20	c	504	CLA	O1A-CGA-O2A-C1
27	B	607	F6C	O1A-CGA-O2A-C1
27	b	607	F6C	O1A-CGA-O2A-C1
26	D	407	LHG	O1-C1-C2-C3
26	d	407	LHG	O1-C1-C2-C3
20	D	404	CLA	CBD-CGD-O2D-CED
23	L	102	SQD	C46-C45-O47-C7
23	l	102	SQD	C46-C45-O47-C7
20	C	506	CLA	C11-C12-C13-C15
20	c	506	CLA	C11-C12-C13-C15
27	C	508	F6C	C11-C12-C13-C14
27	c	508	F6C	C11-C12-C13-C14
33	M	102	LMT	O1'-C1-C2-C3
33	m	102	LMT	O1'-C1-C2-C3
22	A	408	BCR	C11-C10-C9-C8
22	a	408	BCR	C11-C10-C9-C8
21	D	402	PHO	O1D-CGD-O2D-CED
21	d	402	PHO	O1D-CGD-O2D-CED
29	D	401	CL7	C2C-C3C-CAC-CBC
29	d	401	CL7	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
23	A	409	SQD	C34-C35-C36-C37
23	a	409	SQD	C34-C35-C36-C37
20	C	512	CLA	C2-C1-O2A-CGA
20	c	512	CLA	C2-C1-O2A-CGA
27	B	604	F6C	C2-C1-O2A-CGA
27	b	604	F6C	C2-C1-O2A-CGA
27	B	607	F6C	C11-C12-C13-C15
27	C	508	F6C	C11-C12-C13-C15
27	b	607	F6C	C11-C12-C13-C15
27	c	508	F6C	C11-C12-C13-C15
27	C	508	F6C	C10-C11-C12-C13
23	A	409	SQD	C15-C16-C17-C18
23	A	409	SQD	C25-C26-C27-C28
23	a	409	SQD	C15-C16-C17-C18
23	a	409	SQD	C25-C26-C27-C28
26	L	101	LHG	C34-C35-C36-C37
26	l	101	LHG	C34-C35-C36-C37
27	c	508	F6C	C10-C11-C12-C13
26	L	101	LHG	C18-C19-C20-C21
26	l	101	LHG	C18-C19-C20-C21
26	D	407	LHG	O1-C1-C2-O2
26	d	407	LHG	O1-C1-C2-O2
21	A	406	PHO	O1D-CGD-O2D-CED
21	a	406	PHO	O1D-CGD-O2D-CED
20	H	101	CLA	C4B-C3B-CAB-CBB
20	h	101	CLA	C4B-C3B-CAB-CBB
27	B	607	F6C	C2C-C3C-CAC-CBC
27	b	607	F6C	C2C-C3C-CAC-CBC
20	B	614	CLA	C6-C7-C8-C10
20	C	509	CLA	C11-C12-C13-C15
20	b	614	CLA	C6-C7-C8-C10
20	c	509	CLA	C11-C12-C13-C15
27	B	607	F6C	C11-C12-C13-C14
27	b	607	F6C	C11-C12-C13-C14
20	B	602	CLA	C2A-CAA-CBA-CGA
20	B	606	CLA	C2A-CAA-CBA-CGA
20	b	602	CLA	C2A-CAA-CBA-CGA
20	b	606	CLA	C2A-CAA-CBA-CGA
26	D	408	LHG	O6-C4-C5-C6
26	d	408	LHG	O6-C4-C5-C6
20	A	407	CLA	C2C-C3C-CAC-CBC
20	a	407	CLA	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
26	L	101	LHG	C29-C30-C31-C32
26	l	101	LHG	C29-C30-C31-C32
20	C	505	CLA	CBA-CGA-O2A-C1
20	c	505	CLA	CBA-CGA-O2A-C1
28	C	516	DGD	C4D-C5D-C6D-O5D
28	c	516	DGD	C4D-C5D-C6D-O5D
20	B	605	CLA	C3A-C2A-CAA-CBA
20	B	615	CLA	C3A-C2A-CAA-CBA
20	C	513	CLA	C3A-C2A-CAA-CBA
20	b	605	CLA	C3A-C2A-CAA-CBA
20	b	615	CLA	C3A-C2A-CAA-CBA
20	c	513	CLA	C3A-C2A-CAA-CBA
28	D	410	DGD	CBA-CCA-CDA-CEA
28	d	410	DGD	CBA-CCA-CDA-CEA
20	B	601	CLA	CBD-CGD-O2D-CED
20	b	601	CLA	CBD-CGD-O2D-CED
20	C	506	CLA	C11-C12-C13-C14
20	c	506	CLA	C11-C12-C13-C14
28	C	516	DGD	O6D-C5D-C6D-O5D
28	c	516	DGD	O6D-C5D-C6D-O5D
27	C	508	F6C	C1A-C2A-CAA-CBA
27	c	508	F6C	C1A-C2A-CAA-CBA
20	B	606	CLA	CBA-CGA-O2A-C1
20	b	606	CLA	CBA-CGA-O2A-C1
23	L	102	SQD	C32-C33-C34-C35
23	a	409	SQD	C11-C10-C9-C8
23	l	102	SQD	C32-C33-C34-C35
26	D	408	LHG	C27-C28-C29-C30
26	d	408	LHG	C27-C28-C29-C30
20	B	614	CLA	C3-C5-C6-C7
20	b	614	CLA	C3-C5-C6-C7
26	D	407	LHG	C7-C8-C9-C10
26	D	407	LHG	C23-C24-C25-C26
26	d	407	LHG	C7-C8-C9-C10
26	d	407	LHG	C23-C24-C25-C26
23	A	409	SQD	C11-C10-C9-C8
23	L	102	SQD	C9-C10-C11-C12
23	l	102	SQD	C9-C10-C11-C12
20	B	602	CLA	C2B-C3B-CAB-CBB
20	H	101	CLA	C2B-C3B-CAB-CBB
20	b	602	CLA	C2B-C3B-CAB-CBB
20	h	101	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
22	B	616	BCR	C1-C6-C7-C8
22	B	616	BCR	C5-C6-C7-C8
22	B	618	BCR	C1-C6-C7-C8
22	C	515	BCR	C1-C6-C7-C8
22	b	616	BCR	C1-C6-C7-C8
22	b	616	BCR	C5-C6-C7-C8
22	b	618	BCR	C1-C6-C7-C8
22	c	515	BCR	C1-C6-C7-C8
20	D	403	CLA	O1D-CGD-O2D-CED
23	A	409	SQD	C30-C31-C32-C33
23	a	409	SQD	C30-C31-C32-C33
20	C	505	CLA	O1A-CGA-O2A-C1
20	c	505	CLA	O1A-CGA-O2A-C1
24	D	406	PL9	C4-C3-C7-C8
24	d	406	PL9	C4-C3-C7-C8
20	d	403	CLA	O1D-CGD-O2D-CED
26	D	407	LHG	C34-C35-C36-C37
26	d	407	LHG	C34-C35-C36-C37
26	D	407	LHG	C18-C19-C20-C21
26	d	407	LHG	C18-C19-C20-C21
22	B	617	BCR	C10-C11-C12-C13
22	b	617	BCR	C10-C11-C12-C13
32	H	102	RRX	C18-C19-C20-C21
32	h	102	RRX	C18-C19-C20-C21
26	A	412	LHG	C26-C27-C28-C29
26	D	407	LHG	C29-C30-C31-C32
26	a	412	LHG	C26-C27-C28-C29
26	d	407	LHG	C29-C30-C31-C32
28	C	517	DGD	C1A-C2A-C3A-C4A
28	c	517	DGD	C1A-C2A-C3A-C4A
20	A	404	CLA	CBA-CGA-O2A-C1
20	D	403	CLA	CBA-CGA-O2A-C1
20	a	404	CLA	CBA-CGA-O2A-C1
20	d	403	CLA	CBA-CGA-O2A-C1
27	B	613	F6C	CBA-CGA-O2A-C1
27	b	613	F6C	CBA-CGA-O2A-C1
28	d	410	DGD	C6B-C7B-C8B-C9B
20	C	504	CLA	C8-C10-C11-C12
20	c	504	CLA	C8-C10-C11-C12
26	D	407	LHG	C28-C29-C30-C31
26	L	101	LHG	C26-C27-C28-C29
26	d	407	LHG	C28-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
26	l	101	LHG	C26-C27-C28-C29
28	D	410	DGD	C6B-C7B-C8B-C9B
26	A	412	LHG	C25-C26-C27-C28
26	a	412	LHG	C25-C26-C27-C28
26	L	101	LHG	C15-C16-C17-C18
26	l	101	LHG	C15-C16-C17-C18
32	H	102	RRX	C9-C10-C11-C12
32	h	102	RRX	C9-C10-C11-C12
26	A	412	LHG	C8-C7-O7-C5
26	D	407	LHG	C8-C7-O7-C5
26	a	412	LHG	C8-C7-O7-C5
26	d	407	LHG	C8-C7-O7-C5
28	C	517	DGD	C2B-C1B-O2G-C2G
28	c	517	DGD	C2B-C1B-O2G-C2G
20	B	606	CLA	O1A-CGA-O2A-C1
20	b	606	CLA	O1A-CGA-O2A-C1
22	C	518	BCR	C7-C8-C9-C34
22	c	518	BCR	C7-C8-C9-C34
20	C	506	CLA	C2A-CAA-CBA-CGA
20	c	506	CLA	C2A-CAA-CBA-CGA
26	L	101	LHG	C13-C14-C15-C16
26	l	101	LHG	C13-C14-C15-C16
28	C	516	DGD	C8B-C9B-CAB-CBB
28	c	516	DGD	C8B-C9B-CAB-CBB
31	V	201	HEM	C2C-C3C-CAC-CBC
31	v	201	HEM	C2C-C3C-CAC-CBC
23	A	409	SQD	C9-C10-C11-C12
23	a	409	SQD	C9-C10-C11-C12
23	A	409	SQD	C14-C15-C16-C17
23	a	409	SQD	C14-C15-C16-C17
27	B	607	F6C	C3-C5-C6-C7
27	b	607	F6C	C3-C5-C6-C7
27	B	604	F6C	C15-C16-C17-C18
27	b	604	F6C	C15-C16-C17-C18
23	A	409	SQD	C13-C14-C15-C16
23	a	409	SQD	C13-C14-C15-C16
26	D	407	LHG	C9-C10-C11-C12
26	d	407	LHG	C9-C10-C11-C12
26	D	408	LHG	C11-C12-C13-C14
26	d	408	LHG	C11-C12-C13-C14
20	B	610	CLA	C10-C11-C12-C13
20	b	610	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
27	C	508	F6C	C4B-C3B-CAB-CBB
27	c	508	F6C	C4B-C3B-CAB-CBB
28	C	516	DGD	C9B-CAB-CBB-CCB
28	c	516	DGD	C9B-CAB-CBB-CCB
20	C	511	CLA	C5-C6-C7-C8
20	c	511	CLA	C5-C6-C7-C8
27	B	613	F6C	O1A-CGA-O2A-C1
27	b	613	F6C	O1A-CGA-O2A-C1
20	C	509	CLA	C8-C10-C11-C12
20	c	509	CLA	C8-C10-C11-C12
28	C	516	DGD	O6E-C5E-C6E-O5E
28	c	516	DGD	O6E-C5E-C6E-O5E
26	D	407	LHG	C27-C28-C29-C30
26	D	407	LHG	C32-C33-C34-C35
26	d	407	LHG	C27-C28-C29-C30
26	d	407	LHG	C32-C33-C34-C35
28	D	410	DGD	C7B-C8B-C9B-CAB
28	d	410	DGD	C7B-C8B-C9B-CAB
26	L	101	LHG	C17-C18-C19-C20
26	L	101	LHG	C25-C26-C27-C28
26	l	101	LHG	C17-C18-C19-C20
26	l	101	LHG	C25-C26-C27-C28
26	A	412	LHG	O9-C7-O7-C5
26	D	407	LHG	O9-C7-O7-C5
26	a	412	LHG	O9-C7-O7-C5
26	d	407	LHG	O9-C7-O7-C5
21	a	406	PHO	C8-C10-C11-C12
26	D	408	LHG	C13-C14-C15-C16
26	d	408	LHG	C13-C14-C15-C16
20	A	404	CLA	C2A-CAA-CBA-CGA
20	A	405	CLA	C2A-CAA-CBA-CGA
20	B	608	CLA	C2A-CAA-CBA-CGA
20	C	513	CLA	C2A-CAA-CBA-CGA
20	a	404	CLA	C2A-CAA-CBA-CGA
20	a	405	CLA	C2A-CAA-CBA-CGA
20	b	608	CLA	C2A-CAA-CBA-CGA
20	c	513	CLA	C2A-CAA-CBA-CGA
21	A	406	PHO	C8-C10-C11-C12
20	B	605	CLA	O1D-CGD-O2D-CED
20	b	605	CLA	O1D-CGD-O2D-CED
20	A	404	CLA	O1A-CGA-O2A-C1
20	a	404	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
20	C	506	CLA	C3-C5-C6-C7
20	c	506	CLA	C3-C5-C6-C7
20	A	407	CLA	C1A-C2A-CAA-CBA
20	B	608	CLA	C1A-C2A-CAA-CBA
20	B	615	CLA	C1A-C2A-CAA-CBA
20	C	502	CLA	C1A-C2A-CAA-CBA
20	C	503	CLA	C1A-C2A-CAA-CBA
20	C	504	CLA	C1A-C2A-CAA-CBA
20	C	507	CLA	C1A-C2A-CAA-CBA
20	C	509	CLA	C1A-C2A-CAA-CBA
20	C	512	CLA	C1A-C2A-CAA-CBA
20	D	404	CLA	C1A-C2A-CAA-CBA
20	a	407	CLA	C1A-C2A-CAA-CBA
20	b	608	CLA	C1A-C2A-CAA-CBA
20	b	615	CLA	C1A-C2A-CAA-CBA
20	c	502	CLA	C1A-C2A-CAA-CBA
20	c	503	CLA	C1A-C2A-CAA-CBA
20	c	504	CLA	C1A-C2A-CAA-CBA
20	c	507	CLA	C1A-C2A-CAA-CBA
20	c	509	CLA	C1A-C2A-CAA-CBA
20	c	512	CLA	C1A-C2A-CAA-CBA
20	d	404	CLA	C1A-C2A-CAA-CBA
26	A	412	LHG	C28-C29-C30-C31
26	a	412	LHG	C28-C29-C30-C31
20	B	603	CLA	C3-C5-C6-C7
20	b	603	CLA	C3-C5-C6-C7
20	B	612	CLA	C6-C7-C8-C10
20	C	511	CLA	C11-C10-C8-C7
20	b	612	CLA	C6-C7-C8-C10
20	c	511	CLA	C11-C10-C8-C7
20	C	506	CLA	C5-C6-C7-C8
20	c	506	CLA	C5-C6-C7-C8
26	D	408	LHG	C23-C24-C25-C26
26	d	408	LHG	C23-C24-C25-C26
20	C	506	CLA	C4-C3-C5-C6
20	c	506	CLA	C4-C3-C5-C6
20	C	506	CLA	C2-C3-C5-C6
20	c	506	CLA	C2-C3-C5-C6
20	C	511	CLA	C11-C10-C8-C9
20	c	511	CLA	C11-C10-C8-C9
27	B	604	F6C	C11-C12-C13-C14
27	b	604	F6C	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
28	C	516	DGD	C6B-C7B-C8B-C9B
28	c	516	DGD	C6B-C7B-C8B-C9B
28	C	517	DGD	C4A-C5A-C6A-C7A
28	c	517	DGD	C4A-C5A-C6A-C7A
26	D	407	LHG	C4-C5-C6-O8
26	d	407	LHG	C4-C5-C6-O8
30	M	101	LMG	O1-C7-C8-C9
26	L	101	LHG	C11-C12-C13-C14
26	l	101	LHG	C11-C12-C13-C14
20	b	602	CLA	C2C-C3C-CAC-CBC
23	L	102	SQD	C16-C17-C18-C19
23	l	102	SQD	C16-C17-C18-C19
20	C	504	CLA	C3-C5-C6-C7
20	c	504	CLA	C3-C5-C6-C7
20	B	602	CLA	C2C-C3C-CAC-CBC
30	M	101	LMG	C31-C32-C33-C34
30	m	101	LMG	C31-C32-C33-C34
20	B	611	CLA	C16-C17-C18-C20
20	b	611	CLA	C16-C17-C18-C20
20	D	403	CLA	O1A-CGA-O2A-C1
20	d	403	CLA	O1A-CGA-O2A-C1
28	D	410	DGD	O1A-C1A-O1G-C1G
28	d	410	DGD	O1A-C1A-O1G-C1G
28	C	517	DGD	C2B-C3B-C4B-C5B
28	c	517	DGD	C2B-C3B-C4B-C5B
21	A	406	PHO	C5-C6-C7-C8
21	a	406	PHO	C5-C6-C7-C8
20	C	507	CLA	O2A-C1-C2-C3
20	c	507	CLA	O2A-C1-C2-C3
21	A	406	PHO	O2A-C1-C2-C3
21	a	406	PHO	O2A-C1-C2-C3
23	A	409	SQD	C46-C45-O47-C7
23	a	409	SQD	C46-C45-O47-C7
26	D	408	LHG	C28-C29-C30-C31
26	d	408	LHG	C28-C29-C30-C31
20	A	407	CLA	CBA-CGA-O2A-C1
20	a	407	CLA	CBA-CGA-O2A-C1
20	C	503	CLA	C4-C3-C5-C6
20	c	503	CLA	C4-C3-C5-C6
33	M	102	LMT	C1-C2-C3-C4
33	m	102	LMT	C1-C2-C3-C4
26	D	408	LHG	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
26	d	408	LHG	C10-C11-C12-C13
20	C	502	CLA	C2A-CAA-CBA-CGA
20	c	502	CLA	C2A-CAA-CBA-CGA
20	B	614	CLA	C6-C7-C8-C9
20	b	614	CLA	C6-C7-C8-C9
30	D	409	LMG	C4-C5-C6-O5
30	d	409	LMG	C4-C5-C6-O5
20	B	603	CLA	C4C-C3C-CAC-CBC
20	b	603	CLA	C4C-C3C-CAC-CBC
23	L	102	SQD	C24-C25-C26-C27
30	M	101	LMG	C28-C29-C30-C31
30	m	101	LMG	C28-C29-C30-C31
23	l	102	SQD	C24-C25-C26-C27
20	B	614	CLA	O1D-CGD-O2D-CED
20	b	614	CLA	O1D-CGD-O2D-CED
33	M	102	LMT	C2-C1-O1'-C1'
33	m	102	LMT	C2-C1-O1'-C1'
20	B	611	CLA	C14-C13-C15-C16
20	B	612	CLA	C11-C12-C13-C14
20	b	611	CLA	C14-C13-C15-C16
20	b	612	CLA	C11-C12-C13-C14
21	A	406	PHO	C14-C13-C15-C16
21	a	406	PHO	C14-C13-C15-C16
20	D	404	CLA	O1D-CGD-O2D-CED
20	d	404	CLA	O1D-CGD-O2D-CED
20	B	615	CLA	C10-C11-C12-C13
20	b	615	CLA	C10-C11-C12-C13
20	A	404	CLA	C4B-C3B-CAB-CBB
20	B	609	CLA	C4B-C3B-CAB-CBB
20	a	404	CLA	C4B-C3B-CAB-CBB
20	b	609	CLA	C4B-C3B-CAB-CBB
31	E	101	HEM	C3D-CAD-CBD-CGD
31	e	101	HEM	C3D-CAD-CBD-CGD
20	B	611	CLA	C16-C17-C18-C19
20	C	511	CLA	C16-C17-C18-C19
20	b	611	CLA	C16-C17-C18-C19
20	C	509	CLA	C3-C5-C6-C7
20	c	509	CLA	C3-C5-C6-C7
26	A	412	LHG	O6-C4-C5-C6
26	L	101	LHG	O6-C4-C5-C6
26	a	412	LHG	O6-C4-C5-C6
26	l	101	LHG	O6-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
23	A	409	SQD	C17-C18-C19-C20
23	a	409	SQD	C17-C18-C19-C20
28	C	517	DGD	C5B-C6B-C7B-C8B
28	c	517	DGD	C5B-C6B-C7B-C8B
20	B	605	CLA	C11-C12-C13-C15
20	B	610	CLA	C11-C10-C8-C7
20	B	610	CLA	C12-C13-C15-C16
20	B	611	CLA	C12-C13-C15-C16
20	B	612	CLA	C11-C12-C13-C15
20	C	510	CLA	C6-C7-C8-C10
20	b	605	CLA	C11-C12-C13-C15
20	b	610	CLA	C11-C10-C8-C7
20	b	610	CLA	C12-C13-C15-C16
20	b	611	CLA	C12-C13-C15-C16
20	b	612	CLA	C11-C12-C13-C15
20	c	510	CLA	C6-C7-C8-C10
21	A	406	PHO	C12-C13-C15-C16
21	a	406	PHO	C12-C13-C15-C16
27	B	604	F6C	C11-C12-C13-C15
27	B	613	F6C	C6-C7-C8-C10
27	B	613	F6C	C11-C12-C13-C15
27	b	604	F6C	C11-C12-C13-C15
27	b	613	F6C	C6-C7-C8-C10
27	b	613	F6C	C11-C12-C13-C15
26	D	407	LHG	C11-C10-C9-C8
20	c	511	CLA	C16-C17-C18-C19
27	B	613	F6C	C16-C17-C18-C20
27	b	613	F6C	C16-C17-C18-C20
26	d	407	LHG	C11-C10-C9-C8
20	A	405	CLA	C3A-C2A-CAA-CBA
20	B	601	CLA	C3A-C2A-CAA-CBA
20	B	610	CLA	C3A-C2A-CAA-CBA
20	B	611	CLA	C3A-C2A-CAA-CBA
20	C	502	CLA	C4-C3-C5-C6
20	D	403	CLA	C3A-C2A-CAA-CBA
20	a	405	CLA	C3A-C2A-CAA-CBA
20	b	601	CLA	C3A-C2A-CAA-CBA
20	b	610	CLA	C3A-C2A-CAA-CBA
20	b	611	CLA	C3A-C2A-CAA-CBA
20	c	502	CLA	C4-C3-C5-C6
20	d	403	CLA	C3A-C2A-CAA-CBA
22	A	408	BCR	C36-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
22	a	408	BCR	C36-C18-C19-C20
22	B	617	BCR	C11-C12-C13-C14
26	L	101	LHG	C7-C8-C9-C10
26	l	101	LHG	C7-C8-C9-C10
23	L	102	SQD	C44-C45-C46-O48
23	l	102	SQD	C44-C45-C46-O48
30	m	101	LMG	O1-C7-C8-C9
20	A	404	CLA	C3-C5-C6-C7
20	a	404	CLA	C3-C5-C6-C7
21	D	402	PHO	C8-C10-C11-C12
21	d	402	PHO	C8-C10-C11-C12
27	C	508	F6C	C5-C6-C7-C8
27	c	508	F6C	C5-C6-C7-C8
26	l	101	LHG	C19-C20-C21-C22
26	L	101	LHG	C19-C20-C21-C22
26	A	412	LHG	C27-C28-C29-C30
26	a	412	LHG	C27-C28-C29-C30
20	C	502	CLA	C2-C3-C5-C6
20	c	502	CLA	C2-C3-C5-C6
26	A	412	LHG	C9-C10-C11-C12
26	a	412	LHG	C9-C10-C11-C12
20	b	601	CLA	O1D-CGD-O2D-CED
20	B	601	CLA	O1D-CGD-O2D-CED
26	L	101	LHG	O6-C4-C5-O7
26	l	101	LHG	O6-C4-C5-O7
22	B	616	BCR	C23-C24-C25-C30
22	B	618	BCR	C5-C6-C7-C8
22	B	618	BCR	C23-C24-C25-C30
22	C	515	BCR	C23-C24-C25-C30
22	C	518	BCR	C1-C6-C7-C8
22	D	405	BCR	C1-C6-C7-C8
22	b	616	BCR	C23-C24-C25-C30
22	b	618	BCR	C5-C6-C7-C8
22	b	618	BCR	C23-C24-C25-C30
22	c	515	BCR	C23-C24-C25-C30
22	c	518	BCR	C1-C6-C7-C8
22	d	405	BCR	C1-C6-C7-C8
32	H	102	RRX	C23-C24-C25-C26
32	h	102	RRX	C23-C24-C25-C26
26	A	412	LHG	C31-C32-C33-C34
26	a	412	LHG	C31-C32-C33-C34
30	M	101	LMG	O1-C7-C8-O7

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Mol	Chain	Res	Type	Atoms
30	m	101	LMG	O1-C7-C8-O7
24	A	410	PL9	C4-C3-C7-C8
24	a	410	PL9	C4-C3-C7-C8
20	A	407	CLA	O1A-CGA-O2A-C1
22	d	405	BCR	C10-C11-C12-C13
26	A	412	LHG	C30-C31-C32-C33
26	D	408	LHG	C31-C32-C33-C34
26	a	412	LHG	C30-C31-C32-C33
26	d	408	LHG	C31-C32-C33-C34
20	a	407	CLA	O1A-CGA-O2A-C1
21	A	406	PHO	C6-C7-C8-C9
21	a	406	PHO	C6-C7-C8-C9
27	B	613	F6C	C6-C7-C8-C9
27	b	613	F6C	C6-C7-C8-C9
23	L	102	SQD	C34-C35-C36-C37
23	l	102	SQD	C34-C35-C36-C37
33	M	102	LMT	O5'-C1'-O1'-C1
33	m	102	LMT	O5'-C1'-O1'-C1
26	d	408	LHG	C29-C30-C31-C32
23	A	409	SQD	C35-C36-C37-C38
26	D	408	LHG	C29-C30-C31-C32
23	a	409	SQD	C35-C36-C37-C38
29	d	401	CL7	C4C-C3C-CAC-CBC
29	D	401	CL7	C4C-C3C-CAC-CBC
20	A	407	CLA	C4C-C3C-CAC-CBC
26	A	412	LHG	C32-C33-C34-C35
26	a	412	LHG	C32-C33-C34-C35
20	a	407	CLA	C4C-C3C-CAC-CBC
26	L	101	LHG	O1-C1-C2-O2
26	l	101	LHG	O1-C1-C2-O2
28	C	516	DGD	CAB-CBB-CCB-CDB
28	c	516	DGD	CAB-CBB-CCB-CDB
26	D	408	LHG	C1-C2-C3-O3
26	d	408	LHG	C1-C2-C3-O3
23	L	102	SQD	C11-C10-C9-C8
20	D	403	CLA	C11-C10-C8-C7
20	d	403	CLA	C11-C10-C8-C7
21	A	406	PHO	C6-C7-C8-C10
21	a	406	PHO	C6-C7-C8-C10
23	l	102	SQD	C11-C10-C9-C8
22	b	617	BCR	C11-C12-C13-C14
23	L	102	SQD	C5-C6-S-O8

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Mol	Chain	Res	Type	Atoms
23	l	102	SQD	C5-C6-S-O8
30	M	101	LMG	C8-C7-O1-C1
30	m	101	LMG	C8-C7-O1-C1
20	C	504	CLA	C16-C17-C18-C19
20	c	504	CLA	C16-C17-C18-C19
20	B	615	CLA	C8-C10-C11-C12
20	b	615	CLA	C8-C10-C11-C12
26	D	408	LHG	O6-C4-C5-O7
26	d	408	LHG	O6-C4-C5-O7
28	C	516	DGD	O6E-C1E-O5D-C6D
28	c	516	DGD	O6E-C1E-O5D-C6D
20	C	511	CLA	C16-C17-C18-C20
20	c	511	CLA	C16-C17-C18-C20
27	B	613	F6C	C16-C17-C18-C19
27	b	613	F6C	C16-C17-C18-C19
23	A	409	SQD	C16-C17-C18-C19
23	a	409	SQD	C16-C17-C18-C19
23	L	102	SQD	O47-C45-C46-O48
23	l	102	SQD	O47-C45-C46-O48
26	A	412	LHG	O7-C5-C6-O8
26	a	412	LHG	O7-C5-C6-O8
28	D	410	DGD	O1G-C1G-C2G-O2G
28	d	410	DGD	O1G-C1G-C2G-O2G
20	D	403	CLA	C11-C10-C8-C9
20	d	403	CLA	C11-C10-C8-C9
23	l	102	SQD	C17-C18-C19-C20
23	L	102	SQD	C17-C18-C19-C20
20	c	503	CLA	C2C-C3C-CAC-CBC
20	C	503	CLA	C2C-C3C-CAC-CBC
20	D	404	CLA	C2C-C3C-CAC-CBC
20	d	404	CLA	C2C-C3C-CAC-CBC
23	A	409	SQD	C4-C5-C6-S
23	a	409	SQD	C4-C5-C6-S
22	D	405	BCR	C10-C11-C12-C13
20	B	601	CLA	C4B-C3B-CAB-CBB
20	C	513	CLA	C1A-C2A-CAA-CBA
20	b	601	CLA	C4B-C3B-CAB-CBB
20	c	513	CLA	C1A-C2A-CAA-CBA
23	A	409	SQD	C32-C33-C34-C35
20	C	503	CLA	C2-C3-C5-C6
20	c	503	CLA	C2-C3-C5-C6
22	A	408	BCR	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
22	C	518	BCR	C7-C8-C9-C10
22	a	408	BCR	C17-C18-C19-C20
22	c	518	BCR	C7-C8-C9-C10
23	a	409	SQD	C32-C33-C34-C35
27	B	613	F6C	C13-C15-C16-C17
27	b	613	F6C	C13-C15-C16-C17
20	B	605	CLA	C5-C6-C7-C8
20	C	510	CLA	C11-C10-C8-C7
20	c	510	CLA	C11-C10-C8-C7
27	B	604	F6C	C12-C13-C15-C16
27	B	607	F6C	C11-C10-C8-C7
27	b	604	F6C	C12-C13-C15-C16
27	b	607	F6C	C11-C10-C8-C7
20	b	605	CLA	C5-C6-C7-C8
26	D	407	LHG	C13-C14-C15-C16
26	d	407	LHG	C13-C14-C15-C16
23	A	409	SQD	C27-C28-C29-C30
23	a	409	SQD	C27-C28-C29-C30
26	D	407	LHG	C10-C11-C12-C13
26	d	407	LHG	C10-C11-C12-C13
23	L	102	SQD	O5-C5-C6-S
23	l	102	SQD	O5-C5-C6-S
27	B	607	F6C	C1B-C2B-CMB-OMB
27	b	607	F6C	C1B-C2B-CMB-OMB
26	D	407	LHG	C12-C13-C14-C15
26	d	407	LHG	C12-C13-C14-C15
26	D	407	LHG	O7-C5-C6-O8
26	d	407	LHG	O7-C5-C6-O8
28	D	410	DGD	CCA-CDA-CEA-CFA
28	d	410	DGD	CCA-CDA-CEA-CFA
26	A	412	LHG	C4-C5-C6-O8
26	a	412	LHG	C4-C5-C6-O8
20	C	502	CLA	CBD-CGD-O2D-CED
20	c	502	CLA	CBD-CGD-O2D-CED
20	B	609	CLA	CAD-CBD-CGD-O2D
20	C	503	CLA	CAD-CBD-CGD-O2D
20	C	504	CLA	CAD-CBD-CGD-O2D
20	C	506	CLA	CAD-CBD-CGD-O2D
20	C	507	CLA	CAD-CBD-CGD-O2D
20	C	511	CLA	CAD-CBD-CGD-O2D
20	b	609	CLA	CAD-CBD-CGD-O2D
20	c	503	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
20	c	504	CLA	CAD-CBD-CGD-O2D
20	c	506	CLA	CAD-CBD-CGD-O2D
20	c	507	CLA	CAD-CBD-CGD-O2D
20	c	511	CLA	CAD-CBD-CGD-O2D
27	b	607	F6C	C4C-C3C-CAC-CBC
27	B	607	F6C	C4C-C3C-CAC-CBC
20	B	609	CLA	CAD-CBD-CGD-O1D
20	C	502	CLA	CHA-CBD-CGD-O1D
20	C	503	CLA	CAD-CBD-CGD-O1D
20	C	504	CLA	CAD-CBD-CGD-O1D
20	C	506	CLA	CAD-CBD-CGD-O1D
20	C	507	CLA	CAD-CBD-CGD-O1D
20	C	510	CLA	CHA-CBD-CGD-O2D
20	C	511	CLA	CAD-CBD-CGD-O1D
20	b	609	CLA	CAD-CBD-CGD-O1D
20	c	502	CLA	CHA-CBD-CGD-O1D
20	c	503	CLA	CAD-CBD-CGD-O1D
20	c	504	CLA	CAD-CBD-CGD-O1D
20	c	506	CLA	CAD-CBD-CGD-O1D
20	c	507	CLA	CAD-CBD-CGD-O1D
20	c	510	CLA	CHA-CBD-CGD-O2D
20	c	511	CLA	CAD-CBD-CGD-O1D
22	C	515	BCR	C19-C20-C21-C22
22	c	515	BCR	C19-C20-C21-C22
26	A	412	LHG	C3-O3-P-O4
26	A	412	LHG	C3-O3-P-O5
26	A	412	LHG	C3-O3-P-O6
26	D	407	LHG	C3-O3-P-O4
26	D	407	LHG	C3-O3-P-O5
26	D	407	LHG	C3-O3-P-O6
26	D	408	LHG	C3-O3-P-O4
26	L	101	LHG	C3-O3-P-O6
26	L	101	LHG	C4-O6-P-O5
26	a	412	LHG	C3-O3-P-O4
26	a	412	LHG	C3-O3-P-O5
26	a	412	LHG	C3-O3-P-O6
26	d	407	LHG	C3-O3-P-O4
26	d	407	LHG	C3-O3-P-O5
26	d	407	LHG	C3-O3-P-O6
26	d	408	LHG	C3-O3-P-O4
26	l	101	LHG	C3-O3-P-O6
26	l	101	LHG	C4-O6-P-O5

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Mol	Chain	Res	Type	Atoms
27	C	508	F6C	CHA-CBD-CGD-O1D
27	c	508	F6C	CHA-CBD-CGD-O1D
20	B	601	CLA	C2B-C3B-CAB-CBB
20	b	601	CLA	C2B-C3B-CAB-CBB
26	D	408	LHG	C2-C3-O3-P
26	d	408	LHG	C2-C3-O3-P
31	V	201	HEM	C3D-CAD-CBD-CGD
31	v	201	HEM	C3D-CAD-CBD-CGD
28	C	516	DGD	C1B-C2B-C3B-C4B
28	c	516	DGD	C1B-C2B-C3B-C4B
28	D	410	DGD	C1A-C2A-C3A-C4A
32	H	102	RRX	C10-C11-C12-C13
32	h	102	RRX	C10-C11-C12-C13
28	d	410	DGD	C1A-C2A-C3A-C4A
21	A	406	PHO	C11-C10-C8-C7
21	a	406	PHO	C11-C10-C8-C7
30	M	101	LMG	O6-C1-O1-C7
30	m	101	LMG	O6-C1-O1-C7
28	C	516	DGD	C2E-C1E-O5D-C6D
28	c	516	DGD	C2E-C1E-O5D-C6D
28	D	410	DGD	C7A-C8A-C9A-CAA
28	d	410	DGD	C7A-C8A-C9A-CAA
26	D	407	LHG	C11-C12-C13-C14
26	d	407	LHG	C11-C12-C13-C14
26	A	412	LHG	C29-C30-C31-C32
26	a	412	LHG	C29-C30-C31-C32
20	B	612	CLA	C3-C5-C6-C7
20	b	612	CLA	C3-C5-C6-C7
20	C	503	CLA	C4C-C3C-CAC-CBC
26	d	408	LHG	C15-C16-C17-C18
26	D	408	LHG	C15-C16-C17-C18
20	c	503	CLA	C4C-C3C-CAC-CBC
26	A	412	LHG	C11-C10-C9-C8
26	a	412	LHG	C11-C10-C9-C8
20	C	505	CLA	C2A-CAA-CBA-CGA
20	c	505	CLA	C2A-CAA-CBA-CGA
27	B	604	F6C	C14-C13-C15-C16
27	B	607	F6C	C11-C10-C8-C9
27	b	604	F6C	C14-C13-C15-C16
27	b	607	F6C	C11-C10-C8-C9
20	C	504	CLA	C4B-C3B-CAB-CBB
20	c	504	CLA	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
26	a	412	LHG	C24-C25-C26-C27
27	B	604	F6C	C16-C17-C18-C19
27	b	604	F6C	C16-C17-C18-C19
26	A	412	LHG	C24-C25-C26-C27
20	B	610	CLA	C15-C16-C17-C18
20	b	610	CLA	C15-C16-C17-C18
31	V	201	HEM	C4C-C3C-CAC-CBC
31	v	201	HEM	C4C-C3C-CAC-CBC
28	c	517	DGD	C4B-C5B-C6B-C7B
28	C	517	DGD	C4B-C5B-C6B-C7B
29	D	401	CL7	C5-C6-C7-C8
29	d	401	CL7	C5-C6-C7-C8
31	E	101	HEM	CAA-CBA-CGA-O2A
31	e	101	HEM	CAA-CBA-CGA-O2A
20	B	602	CLA	C4-C3-C5-C6
20	b	602	CLA	C4-C3-C5-C6
31	V	201	HEM	C2A-CAA-CBA-CGA
31	v	201	HEM	C2A-CAA-CBA-CGA
20	B	610	CLA	C6-C7-C8-C9
20	B	615	CLA	C11-C10-C8-C9
20	C	506	CLA	C6-C7-C8-C9
20	b	610	CLA	C6-C7-C8-C9
20	b	615	CLA	C11-C10-C8-C9
20	c	506	CLA	C6-C7-C8-C9
21	A	406	PHO	C11-C10-C8-C9
21	a	406	PHO	C11-C10-C8-C9
23	A	409	SQD	C31-C32-C33-C34
23	a	409	SQD	C31-C32-C33-C34
20	B	602	CLA	C2-C3-C5-C6
20	b	602	CLA	C2-C3-C5-C6
20	A	405	CLA	C1A-C2A-CAA-CBA
20	B	601	CLA	C1A-C2A-CAA-CBA
20	B	611	CLA	C1A-C2A-CAA-CBA
20	a	405	CLA	C1A-C2A-CAA-CBA
20	b	601	CLA	C1A-C2A-CAA-CBA
20	b	611	CLA	C1A-C2A-CAA-CBA
20	A	404	CLA	C2B-C3B-CAB-CBB
20	B	609	CLA	C2B-C3B-CAB-CBB
20	C	504	CLA	C2B-C3B-CAB-CBB
20	a	404	CLA	C2B-C3B-CAB-CBB
20	b	609	CLA	C2B-C3B-CAB-CBB
20	c	504	CLA	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
22	A	408	BCR	C23-C24-C25-C26
22	A	408	BCR	C23-C24-C25-C30
22	B	616	BCR	C23-C24-C25-C26
22	B	618	BCR	C23-C24-C25-C26
22	C	515	BCR	C23-C24-C25-C26
22	C	518	BCR	C5-C6-C7-C8
22	D	405	BCR	C5-C6-C7-C8
22	a	408	BCR	C23-C24-C25-C26
22	a	408	BCR	C23-C24-C25-C30
22	b	616	BCR	C23-C24-C25-C26
22	b	618	BCR	C23-C24-C25-C26
22	c	515	BCR	C23-C24-C25-C26
22	c	518	BCR	C5-C6-C7-C8
22	d	405	BCR	C5-C6-C7-C8
32	H	102	RRX	C23-C24-C25-C30
32	h	102	RRX	C23-C24-C25-C30
33	M	102	LMT	C9-C10-C11-C12
33	m	102	LMT	C9-C10-C11-C12
28	c	516	DGD	C2A-C3A-C4A-C5A
28	C	516	DGD	C2A-C3A-C4A-C5A
31	E	101	HEM	CAD-CBD-CGD-O2D
31	e	101	HEM	CAD-CBD-CGD-O2D
30	D	409	LMG	O9-C10-O7-C8
20	B	615	CLA	C6-C7-C8-C10
20	C	506	CLA	C6-C7-C8-C10
20	b	615	CLA	C6-C7-C8-C10
20	c	506	CLA	C6-C7-C8-C10
20	B	602	CLA	C16-C17-C18-C20
20	a	404	CLA	C16-C17-C18-C20
20	b	602	CLA	C16-C17-C18-C20
31	V	201	HEM	CAA-CBA-CGA-O1A
31	v	201	HEM	CAA-CBA-CGA-O1A
20	A	404	CLA	C16-C17-C18-C20
30	d	409	LMG	O9-C10-O7-C8
31	e	101	HEM	CAD-CBD-CGD-O1D
20	D	404	CLA	C2A-CAA-CBA-CGA
20	d	404	CLA	C2A-CAA-CBA-CGA
31	E	101	HEM	CAD-CBD-CGD-O1D
20	C	506	CLA	C8-C10-C11-C12
20	c	506	CLA	C8-C10-C11-C12
21	D	402	PHO	C2C-C3C-CAC-CBC
33	M	102	LMT	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
33	m	102	LMT	C11-C10-C9-C8
22	D	405	BCR	C17-C18-C19-C20
22	d	405	BCR	C17-C18-C19-C20
20	C	504	CLA	C4-C3-C5-C6
20	c	504	CLA	C4-C3-C5-C6
24	D	406	PL9	C12-C11-C9-C10
31	V	201	HEM	CAA-CBA-CGA-O2A
21	d	402	PHO	C2C-C3C-CAC-CBC
30	D	409	LMG	C11-C10-O7-C8
30	d	409	LMG	C11-C10-O7-C8
23	A	409	SQD	C33-C34-C35-C36
31	v	201	HEM	CAA-CBA-CGA-O2A
23	a	409	SQD	C33-C34-C35-C36
24	d	406	PL9	C12-C11-C9-C10
27	B	613	F6C	C4-C3-C5-C6
27	b	613	F6C	C4-C3-C5-C6
31	E	101	HEM	CAA-CBA-CGA-O1A
31	e	101	HEM	CAA-CBA-CGA-O1A
27	b	604	F6C	C10-C11-C12-C13
20	d	404	CLA	CAA-CBA-CGA-O2A
20	B	602	CLA	C5-C6-C7-C8
20	b	602	CLA	C5-C6-C7-C8
20	c	502	CLA	O1D-CGD-O2D-CED
20	D	404	CLA	CAA-CBA-CGA-O2A
27	B	604	F6C	C10-C11-C12-C13
20	A	404	CLA	C4-C3-C5-C6
20	a	404	CLA	C4-C3-C5-C6
26	D	408	LHG	C7-C8-C9-C10
20	C	502	CLA	O1D-CGD-O2D-CED
27	B	613	F6C	C11-C10-C8-C7
27	b	613	F6C	C11-C10-C8-C7
28	C	516	DGD	C4B-C5B-C6B-C7B
28	c	516	DGD	C4B-C5B-C6B-C7B
26	d	408	LHG	C7-C8-C9-C10
23	l	102	SQD	C19-C20-C21-C22
26	D	408	LHG	C9-C10-C11-C12
26	d	408	LHG	C9-C10-C11-C12
23	L	102	SQD	C19-C20-C21-C22
28	C	516	DGD	C5D-C6D-O5D-C1E
28	c	516	DGD	C5D-C6D-O5D-C1E
20	B	615	CLA	C2A-CAA-CBA-CGA
20	b	615	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
26	L	101	LHG	C10-C11-C12-C13
21	D	402	PHO	C3A-C2A-CAA-CBA
21	d	402	PHO	C3A-C2A-CAA-CBA
26	l	101	LHG	C10-C11-C12-C13
28	d	410	DGD	C3A-C4A-C5A-C6A
28	D	410	DGD	C3A-C4A-C5A-C6A
33	M	102	LMT	C5-C6-C7-C8
33	m	102	LMT	C5-C6-C7-C8
20	b	602	CLA	C4C-C3C-CAC-CBC
27	C	508	F6C	O2A-C1-C2-C3
27	c	508	F6C	O2A-C1-C2-C3
22	C	515	BCR	C10-C11-C12-C13
20	B	602	CLA	C4C-C3C-CAC-CBC
20	D	404	CLA	CAA-CBA-CGA-O1A
20	d	404	CLA	CAA-CBA-CGA-O1A
20	B	609	CLA	CAA-CBA-CGA-O2A
20	b	609	CLA	CAA-CBA-CGA-O2A
30	D	409	LMG	O7-C10-C11-C12
28	D	410	DGD	C4B-C5B-C6B-C7B
20	B	609	CLA	CAA-CBA-CGA-O1A
20	b	609	CLA	CAA-CBA-CGA-O1A
28	d	410	DGD	C4B-C5B-C6B-C7B
28	d	410	DGD	O2G-C1B-C2B-C3B
30	d	409	LMG	O7-C10-C11-C12
20	B	608	CLA	C3-C5-C6-C7
20	b	608	CLA	C3-C5-C6-C7
28	C	517	DGD	O1G-C1G-C2G-O2G
28	c	517	DGD	O1G-C1G-C2G-O2G
20	B	611	CLA	C11-C12-C13-C14
20	b	611	CLA	C11-C12-C13-C14
20	B	602	CLA	C16-C17-C18-C19
28	D	410	DGD	O2G-C1B-C2B-C3B
27	B	613	F6C	C15-C16-C17-C18
27	b	613	F6C	C15-C16-C17-C18
27	C	508	F6C	C11-C10-C8-C7
27	c	508	F6C	C11-C10-C8-C7
20	C	502	CLA	C2B-C3B-CAB-CBB
20	C	503	CLA	C2B-C3B-CAB-CBB
20	c	502	CLA	C2B-C3B-CAB-CBB
20	c	503	CLA	C2B-C3B-CAB-CBB
20	C	504	CLA	C16-C17-C18-C20
20	c	504	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
27	c	508	F6C	CAA-CBA-CGA-O2A
28	C	516	DGD	O2G-C1B-C2B-C3B
28	c	516	DGD	O2G-C1B-C2B-C3B
30	D	409	LMG	C11-C12-C13-C14
30	d	409	LMG	C11-C12-C13-C14
20	b	602	CLA	C16-C17-C18-C19
27	C	508	F6C	CAA-CBA-CGA-O2A
20	C	514	CLA	C2A-CAA-CBA-CGA
20	c	514	CLA	C2A-CAA-CBA-CGA
20	C	512	CLA	CAA-CBA-CGA-O2A
20	c	512	CLA	CAA-CBA-CGA-O2A
20	C	512	CLA	C2A-CAA-CBA-CGA
20	c	512	CLA	C2A-CAA-CBA-CGA
20	B	605	CLA	C14-C13-C15-C16
20	b	605	CLA	C14-C13-C15-C16
28	C	516	DGD	C1G-C2G-C3G-O3G
28	c	516	DGD	C1G-C2G-C3G-O3G
20	B	610	CLA	C4B-C3B-CAB-CBB
20	b	610	CLA	C4B-C3B-CAB-CBB
23	A	409	SQD	O48-C23-C24-C25
23	a	409	SQD	O48-C23-C24-C25
20	C	502	CLA	CAA-CBA-CGA-O2A
20	c	502	CLA	CAA-CBA-CGA-O2A
27	B	607	F6C	CAA-CBA-CGA-O2A
27	b	607	F6C	CAA-CBA-CGA-O2A
23	L	102	SQD	C11-C12-C13-C14
23	L	102	SQD	C5-C6-S-O9
23	l	102	SQD	C5-C6-S-O9
23	l	102	SQD	C11-C12-C13-C14
26	D	407	LHG	C33-C34-C35-C36
26	d	407	LHG	C33-C34-C35-C36
26	d	407	LHG	C17-C18-C19-C20
26	D	407	LHG	C17-C18-C19-C20
26	L	101	LHG	C12-C13-C14-C15
20	B	601	CLA	CAA-CBA-CGA-O2A
20	b	601	CLA	CAA-CBA-CGA-O2A
26	l	101	LHG	C12-C13-C14-C15
20	B	605	CLA	C11-C10-C8-C9
20	b	605	CLA	C11-C10-C8-C9
27	c	508	F6C	CAA-CBA-CGA-O1A
26	L	101	LHG	O7-C7-C8-C9
26	l	101	LHG	O7-C7-C8-C9

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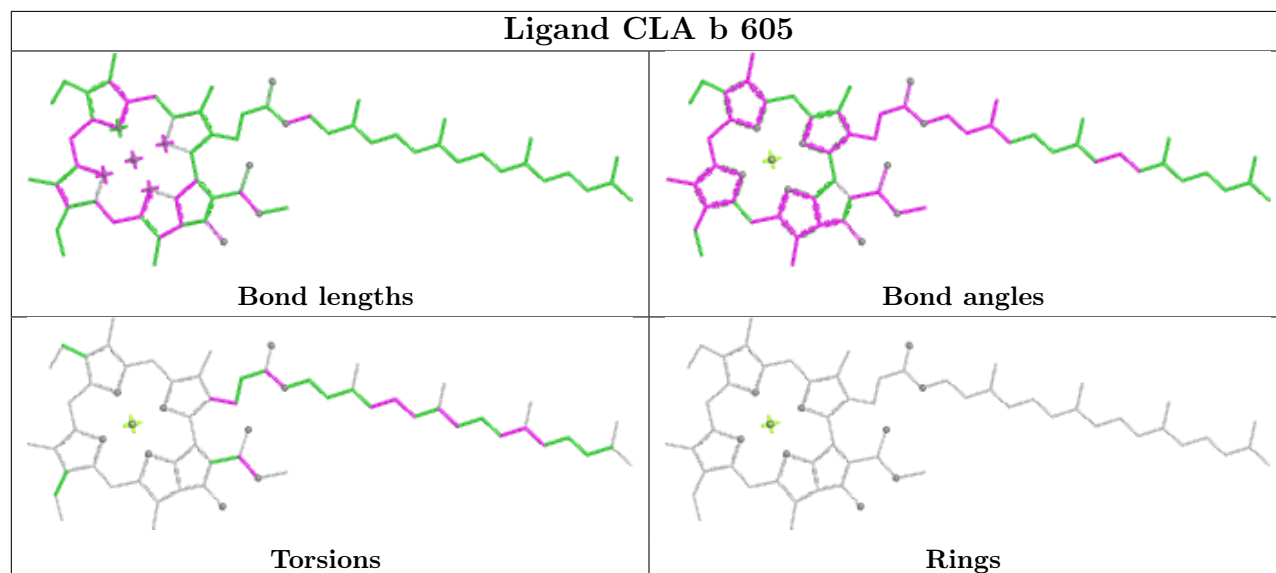
Mol	Chain	Res	Type	Atoms
27	B	604	F6C	O1A-CGA-O2A-C1
27	b	604	F6C	O1A-CGA-O2A-C1
27	C	508	F6C	CAA-CBA-CGA-O1A
30	D	409	LMG	O9-C10-C11-C12
30	d	409	LMG	O9-C10-C11-C12
27	c	508	F6C	C3A-C2A-CAA-CBA
23	a	409	SQD	O10-C23-C24-C25
23	L	102	SQD	O6-C44-C45-O47
23	l	102	SQD	O6-C44-C45-O47
23	A	409	SQD	O10-C23-C24-C25
20	B	601	CLA	CAA-CBA-CGA-O1A
20	b	601	CLA	CAA-CBA-CGA-O1A
28	c	516	DGD	O1B-C1B-C2B-C3B
20	B	614	CLA	CAD-CBD-CGD-O2D
20	C	510	CLA	CAD-CBD-CGD-O2D
20	b	614	CLA	CAD-CBD-CGD-O2D
20	c	510	CLA	CAD-CBD-CGD-O2D
20	C	512	CLA	CAA-CBA-CGA-O1A
20	B	610	CLA	C2-C1-O2A-CGA
20	B	615	CLA	C2-C1-O2A-CGA
20	b	610	CLA	C2-C1-O2A-CGA
20	c	512	CLA	CAA-CBA-CGA-O1A
28	C	516	DGD	O1B-C1B-C2B-C3B
30	M	101	LMG	C30-C31-C32-C33
20	C	504	CLA	CAA-CBA-CGA-O2A
20	c	504	CLA	CAA-CBA-CGA-O2A
30	m	101	LMG	C30-C31-C32-C33
20	B	614	CLA	CAA-CBA-CGA-O2A
27	B	613	F6C	CAA-CBA-CGA-O2A
27	b	613	F6C	CAA-CBA-CGA-O2A

There are no ring outliers.

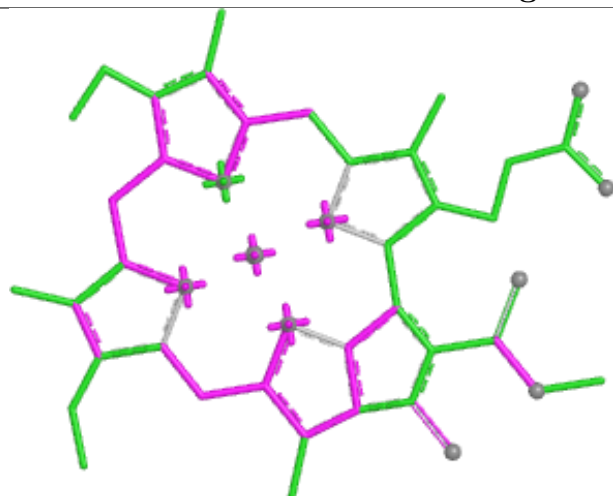
No monomer is involved in short contacts.

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

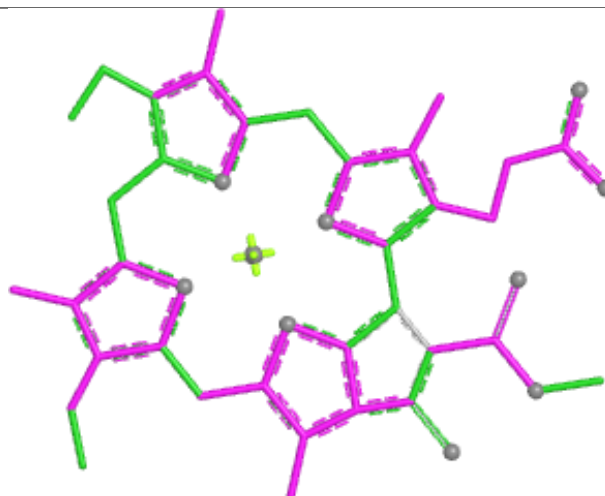
any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



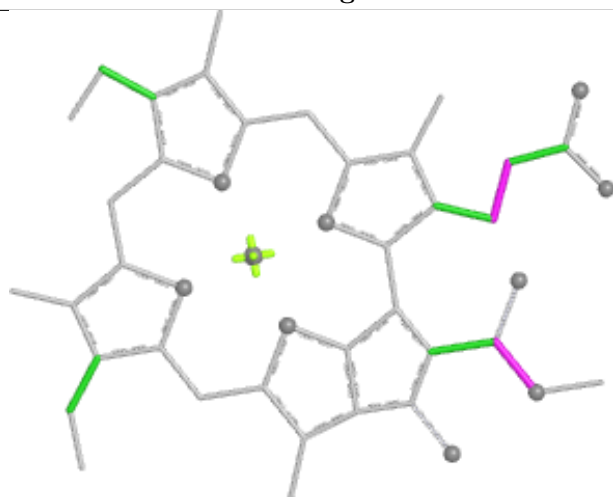
Ligand CLA c 514



Bond lengths



Bond angles

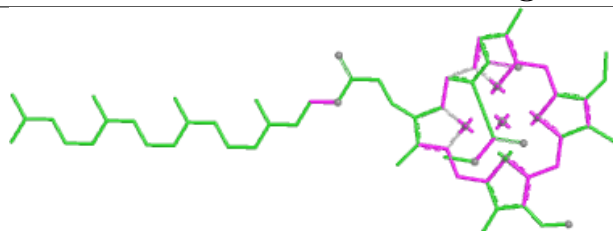


Torsions

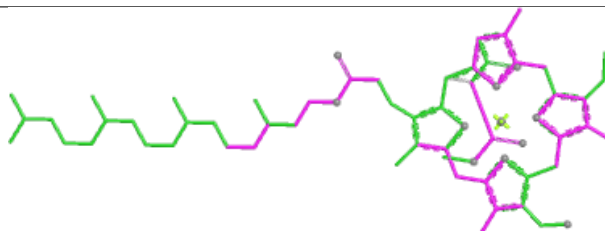


Rings

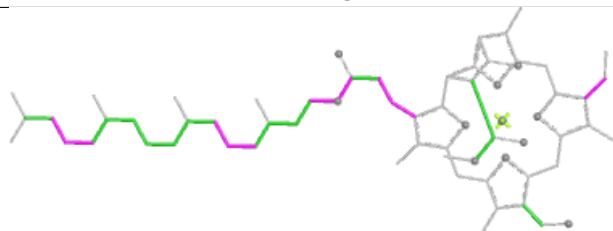
Ligand CL7 D 401



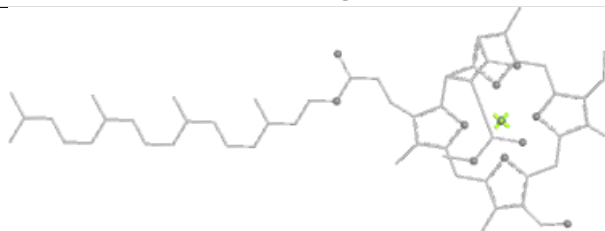
Bond lengths



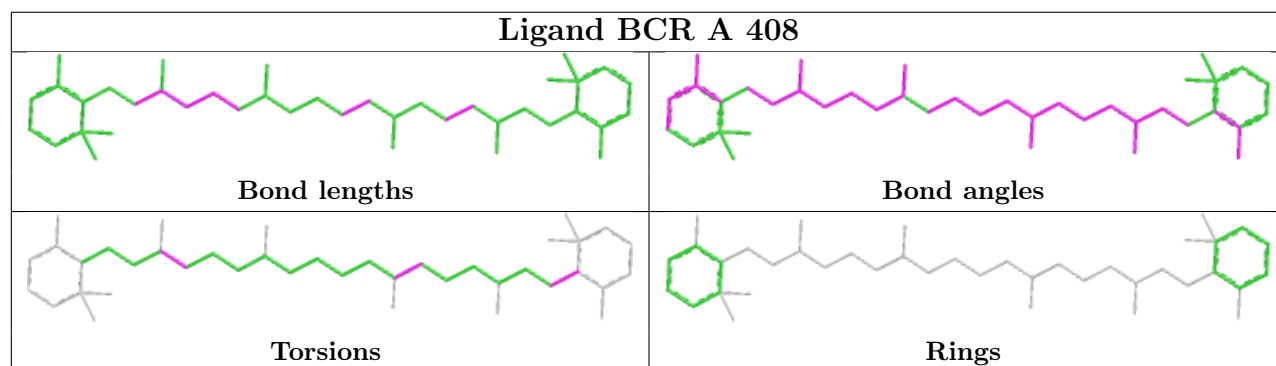
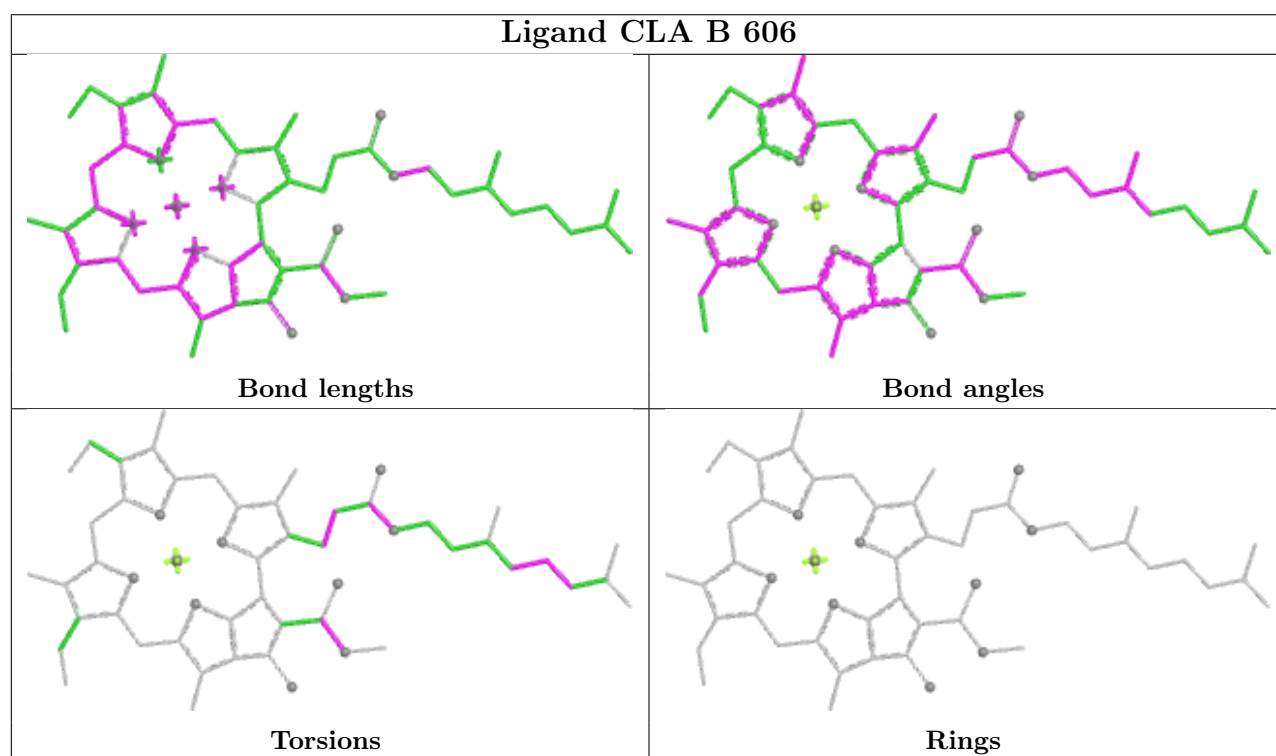
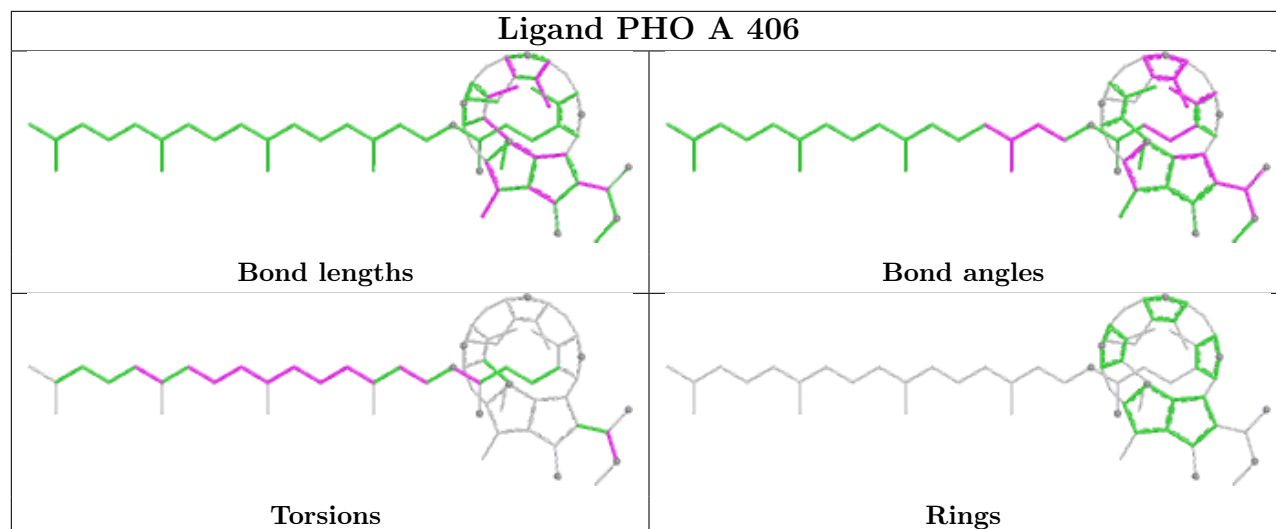
Bond angles



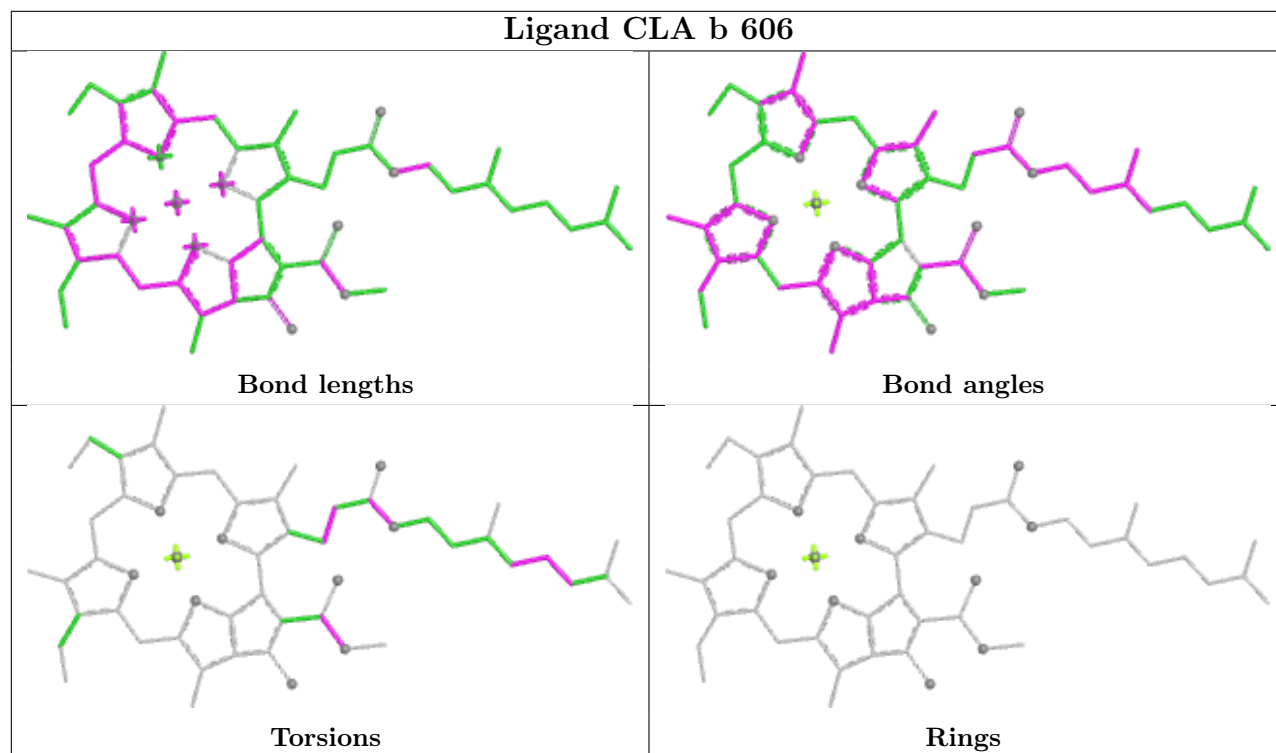
Torsions



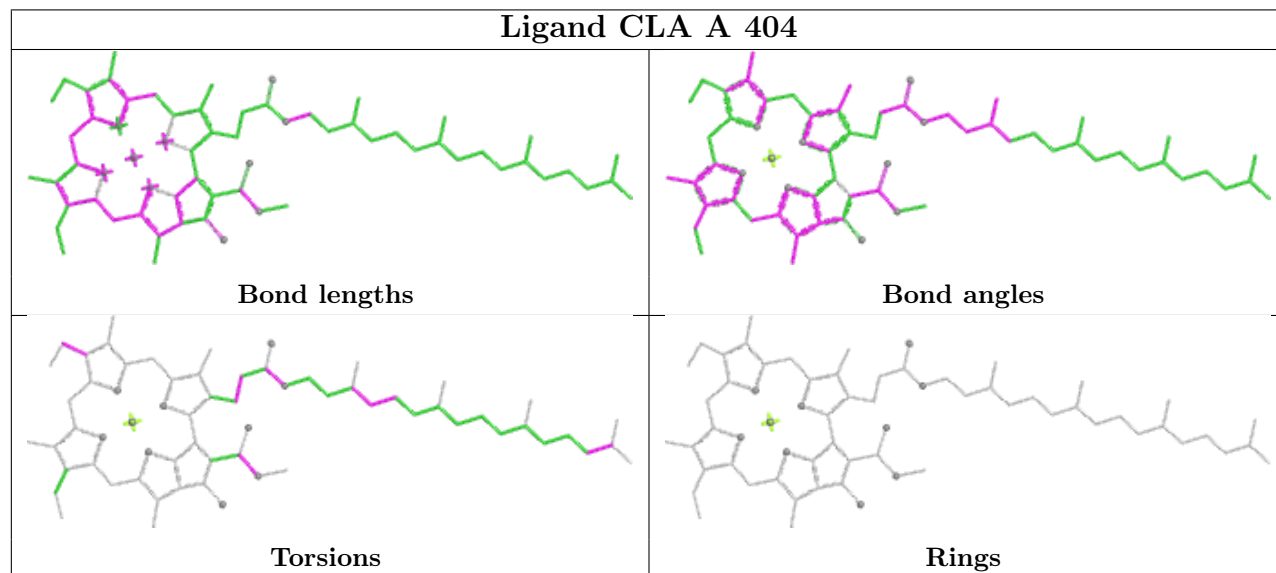
Rings

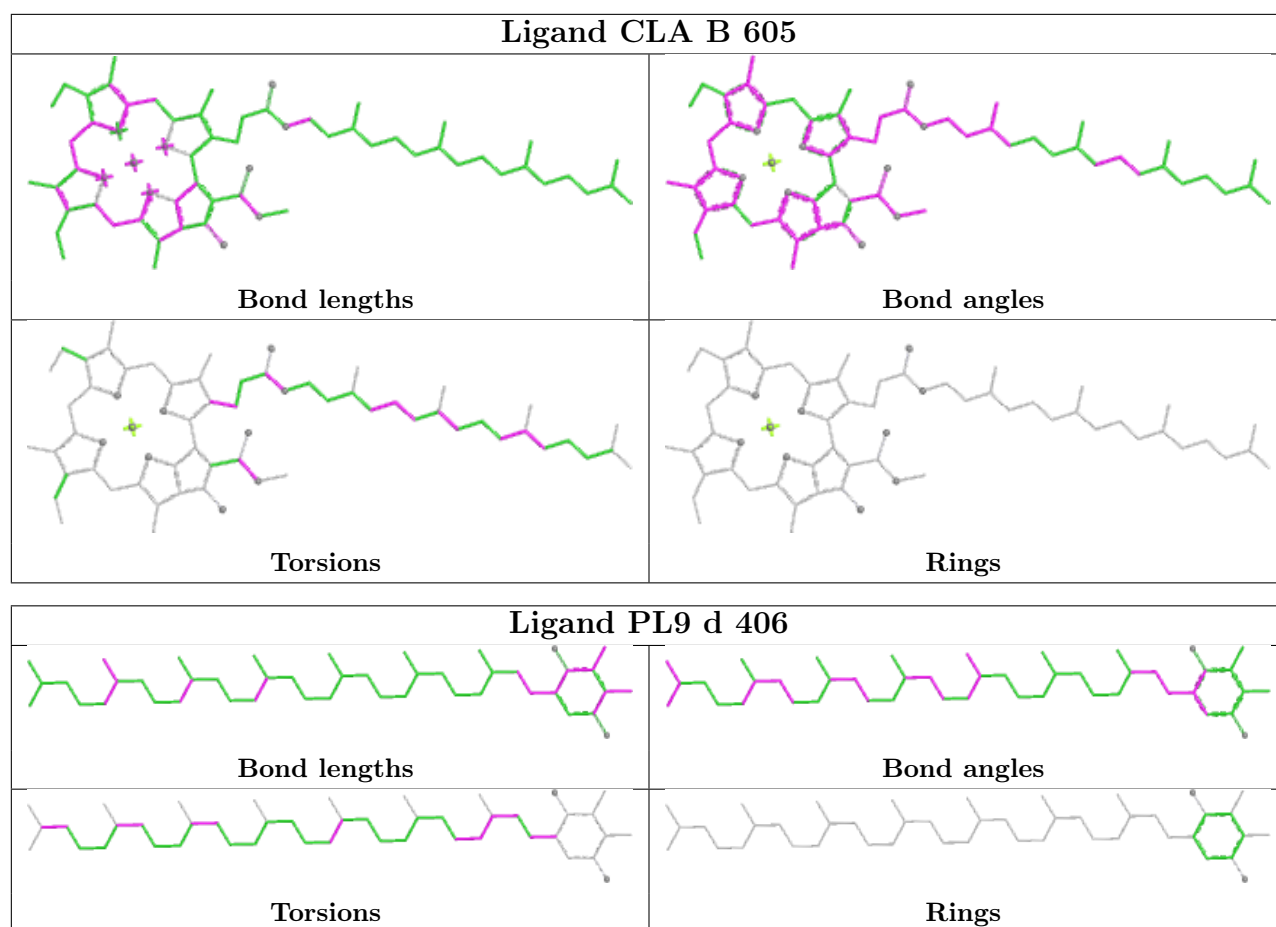


Ligand CLA b 606

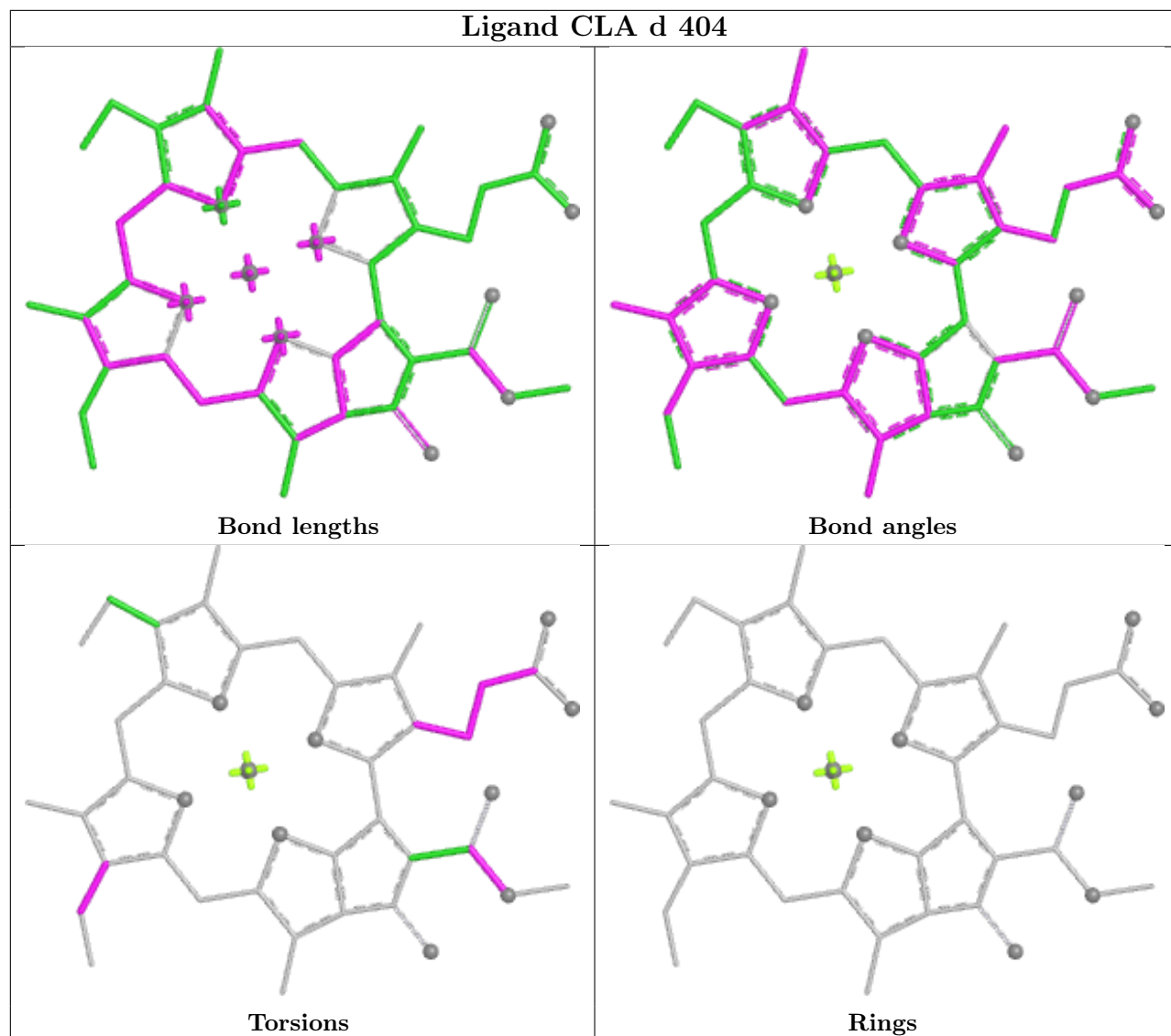


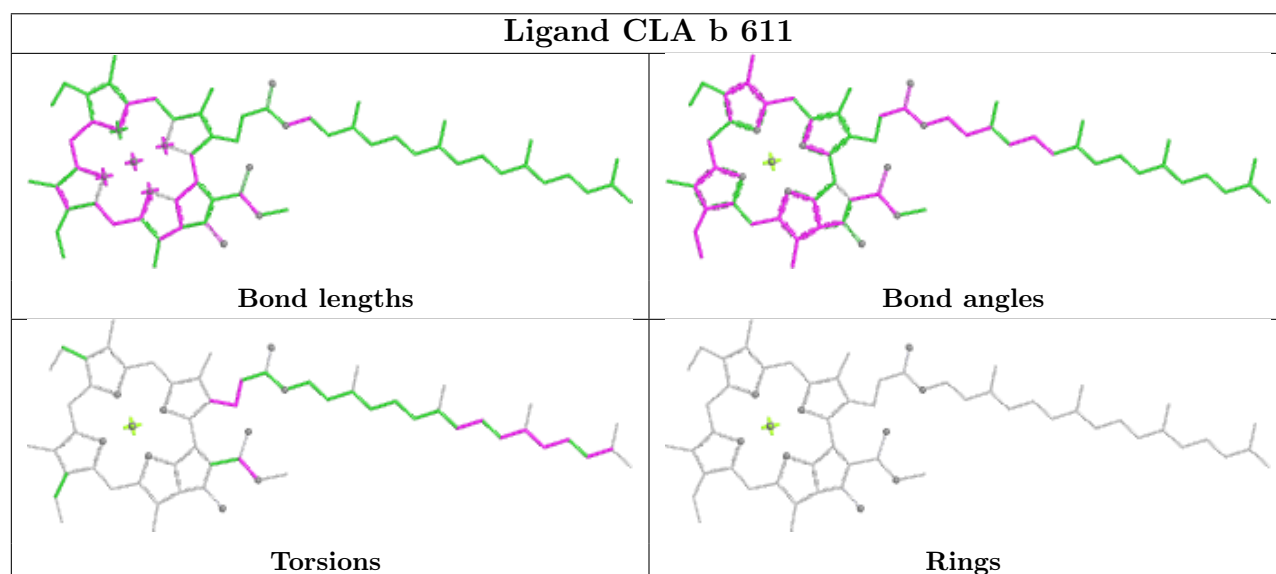
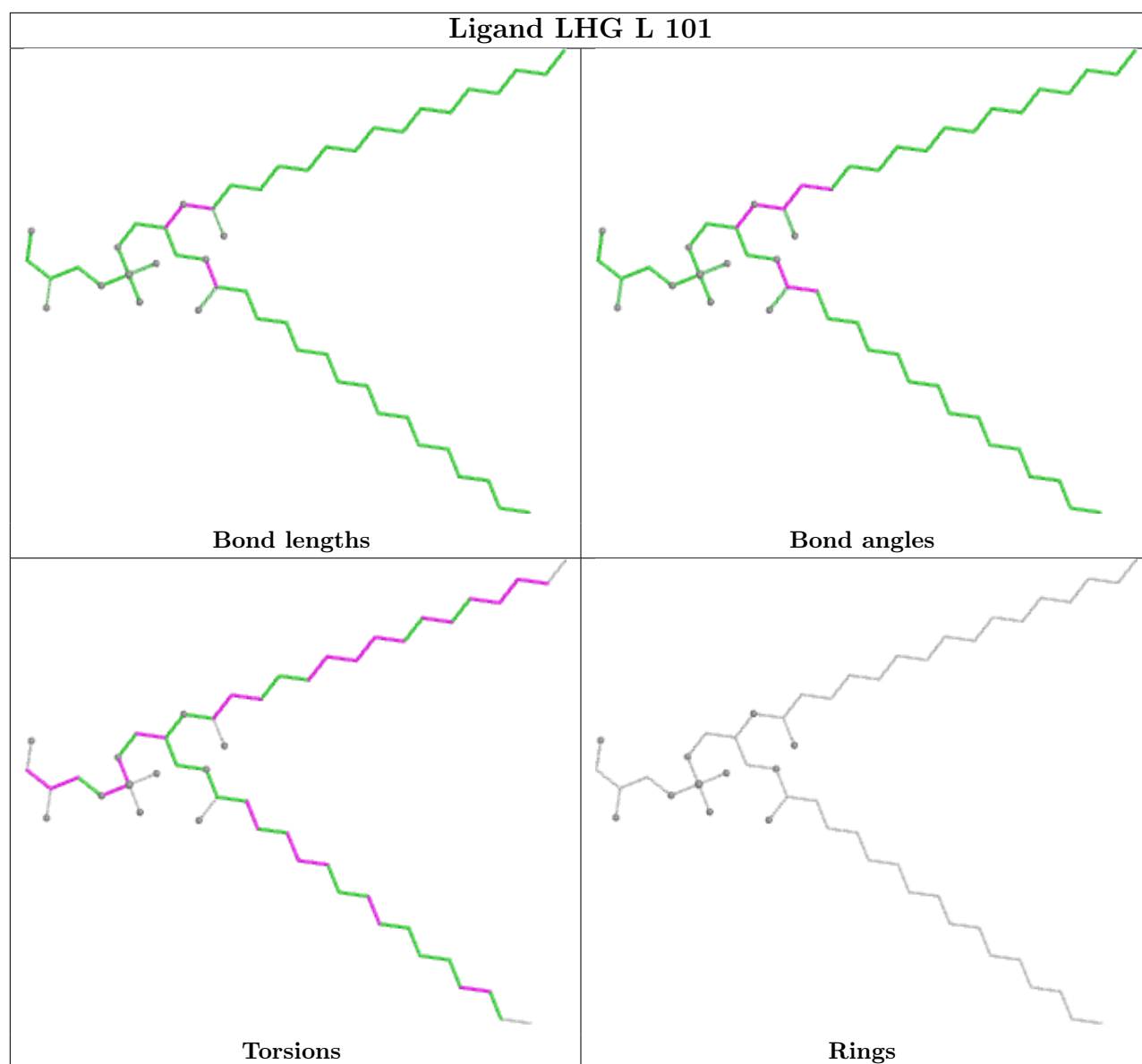
Ligand CLA A 404

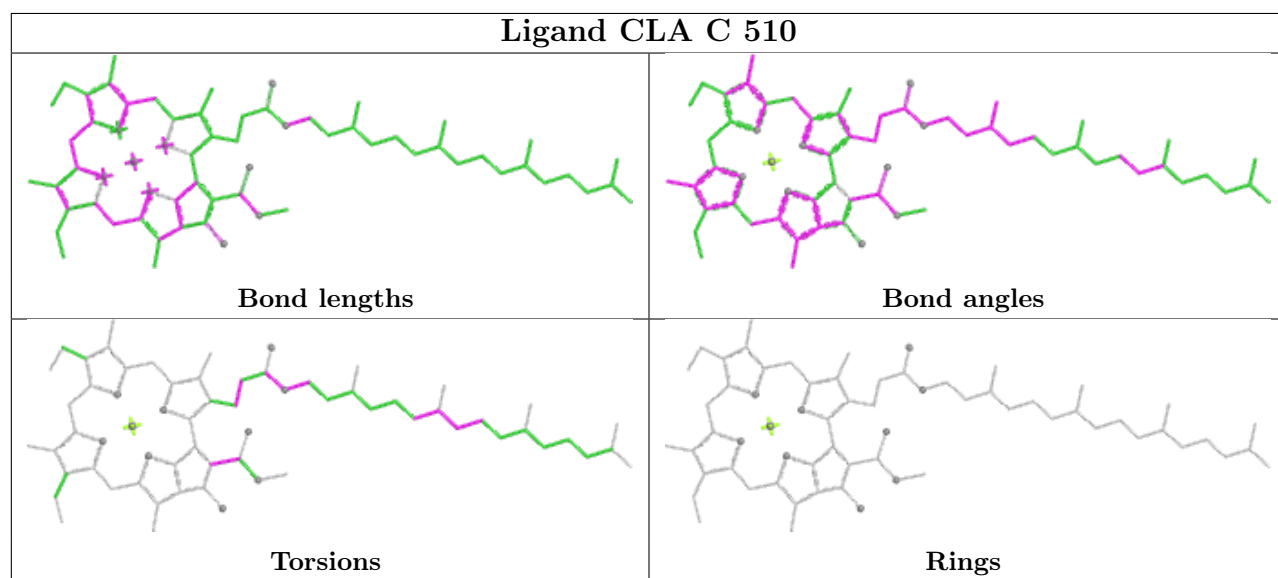
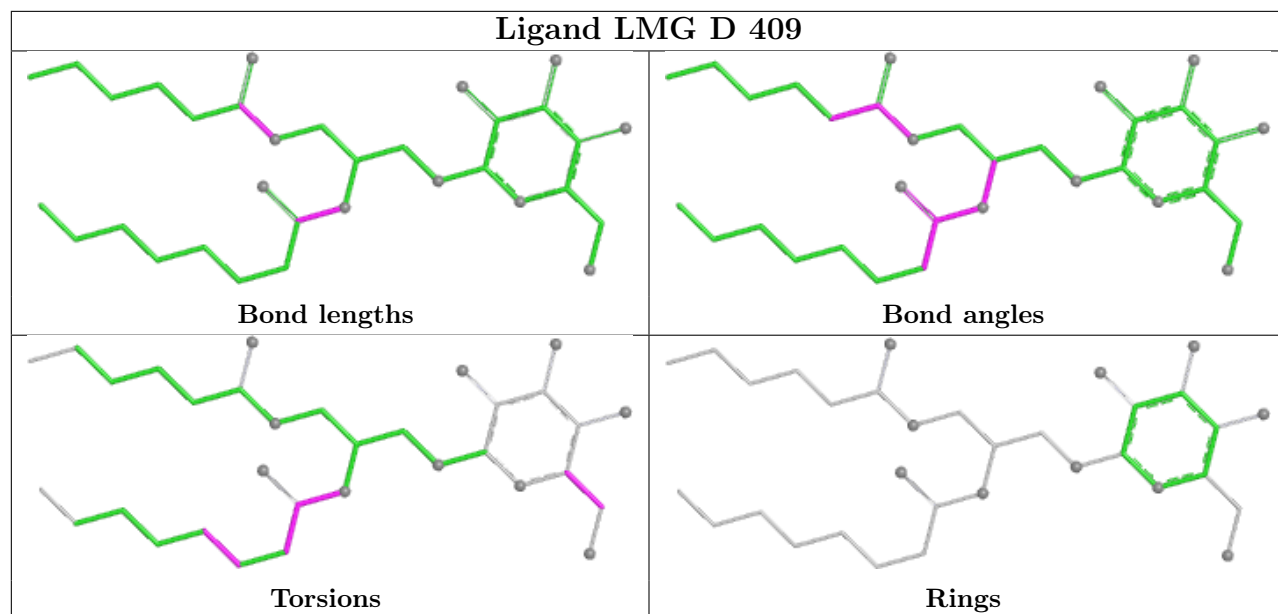


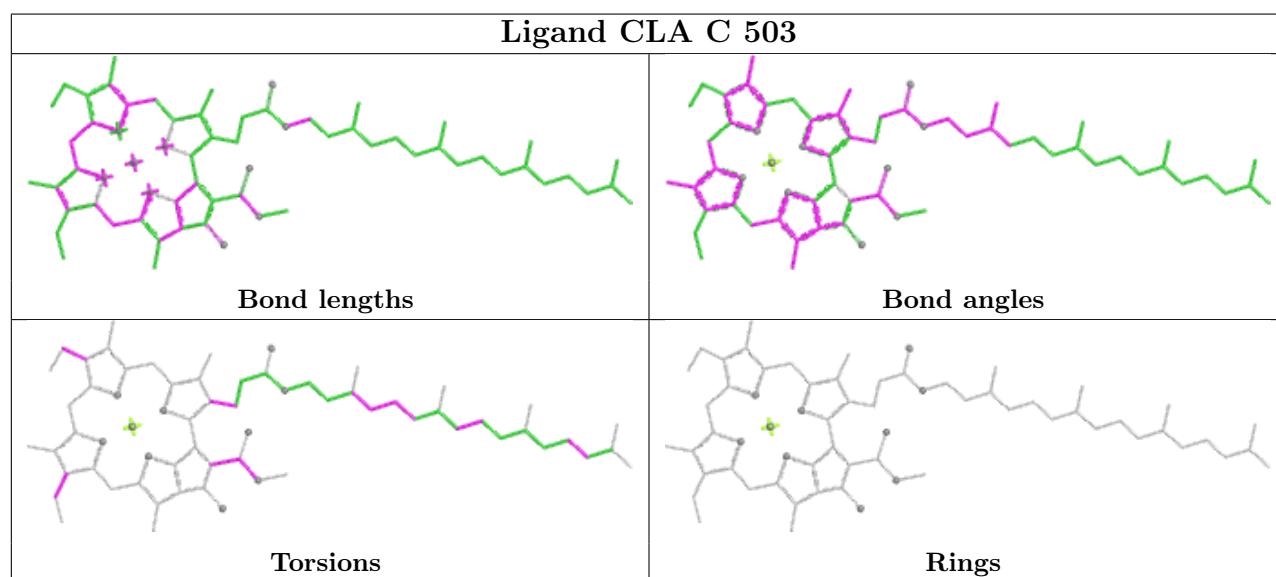
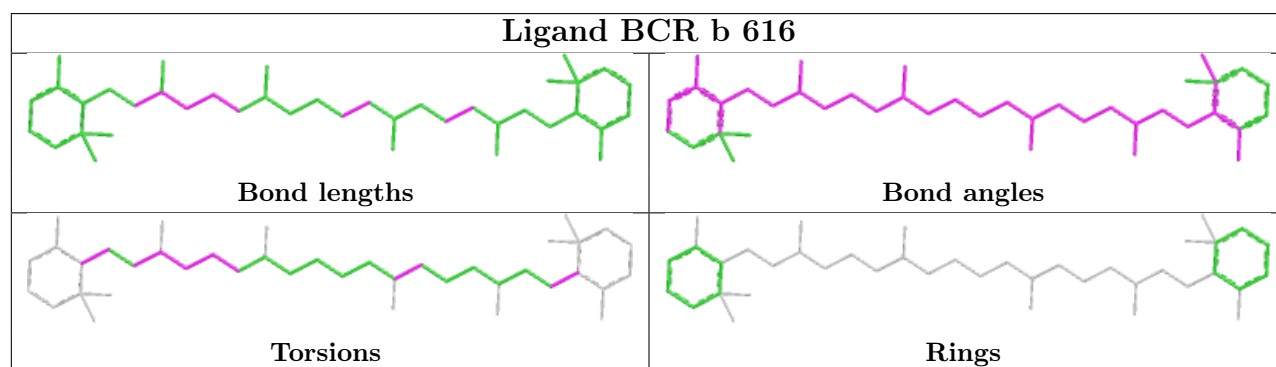
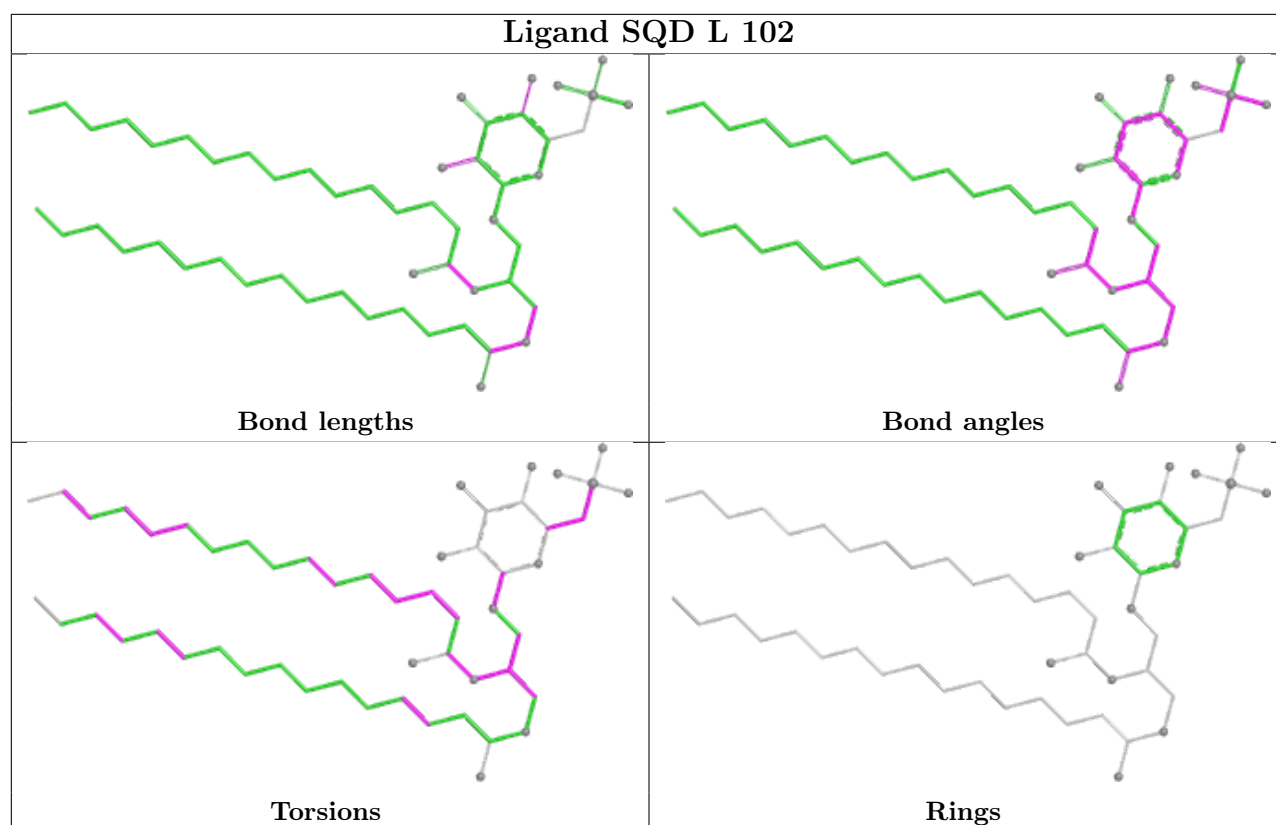


Ligand CLA d 404

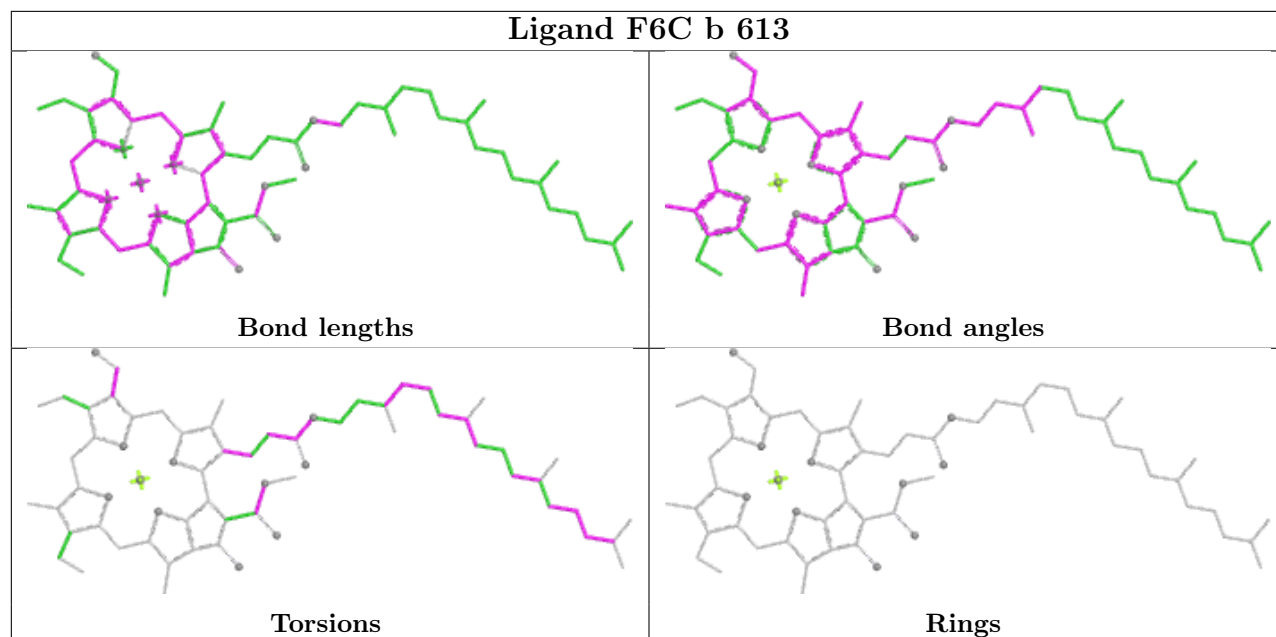




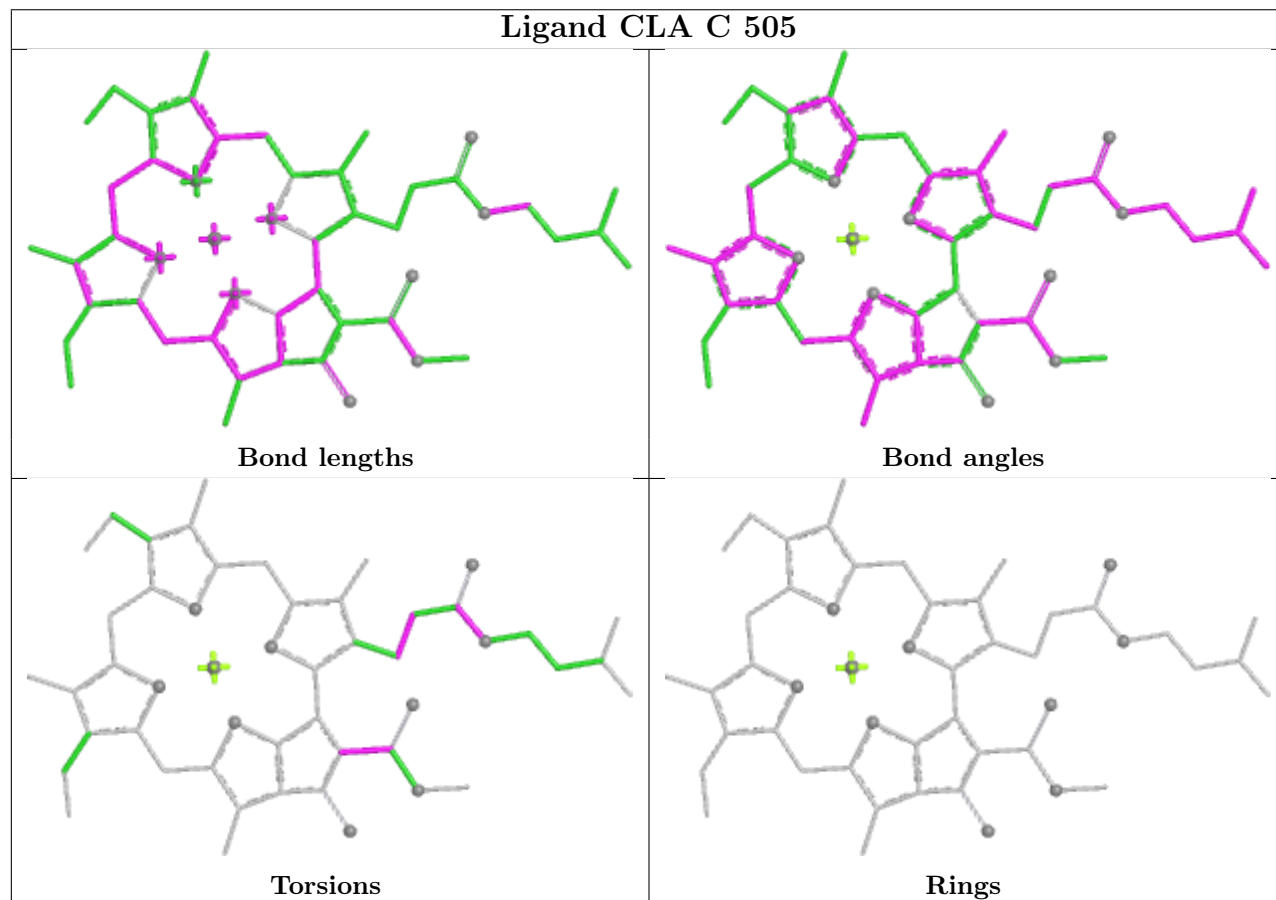


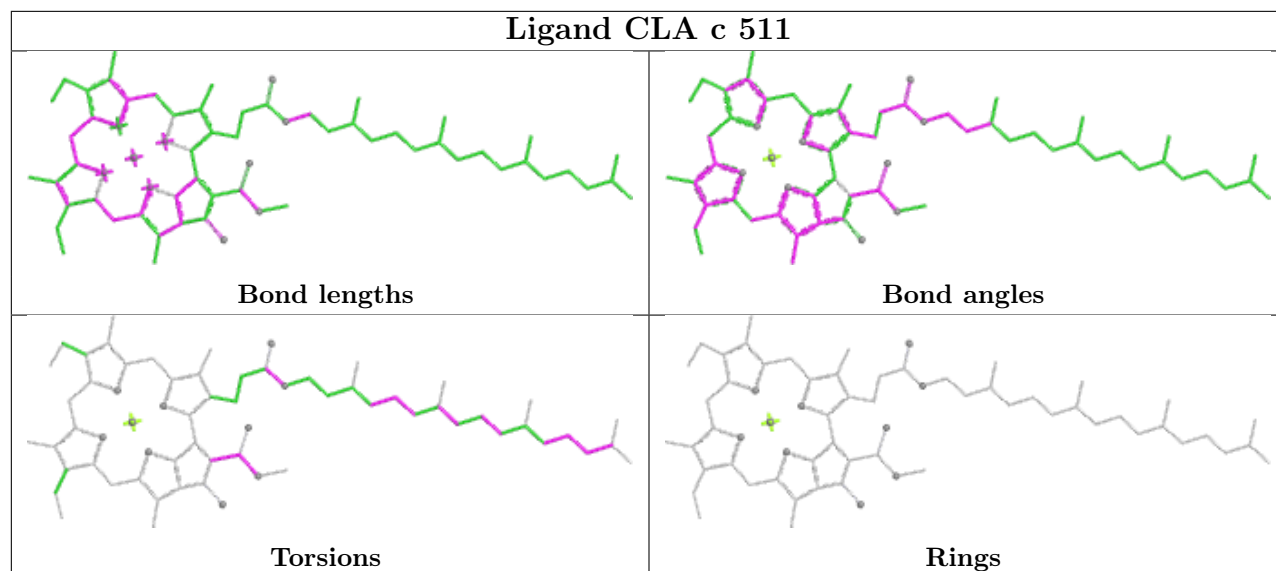
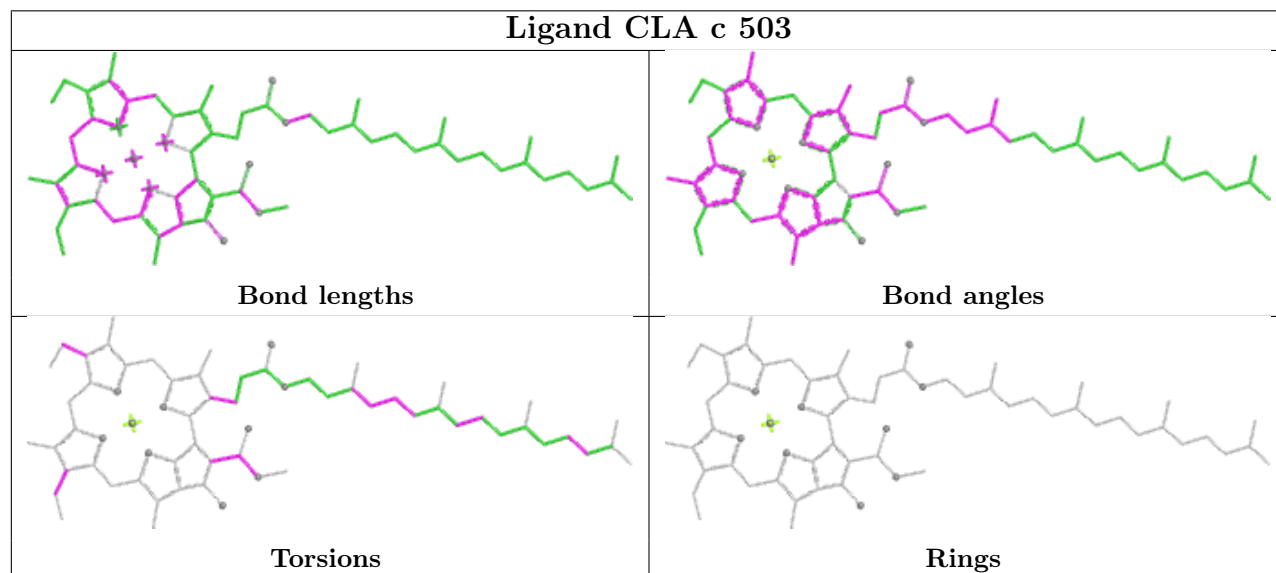
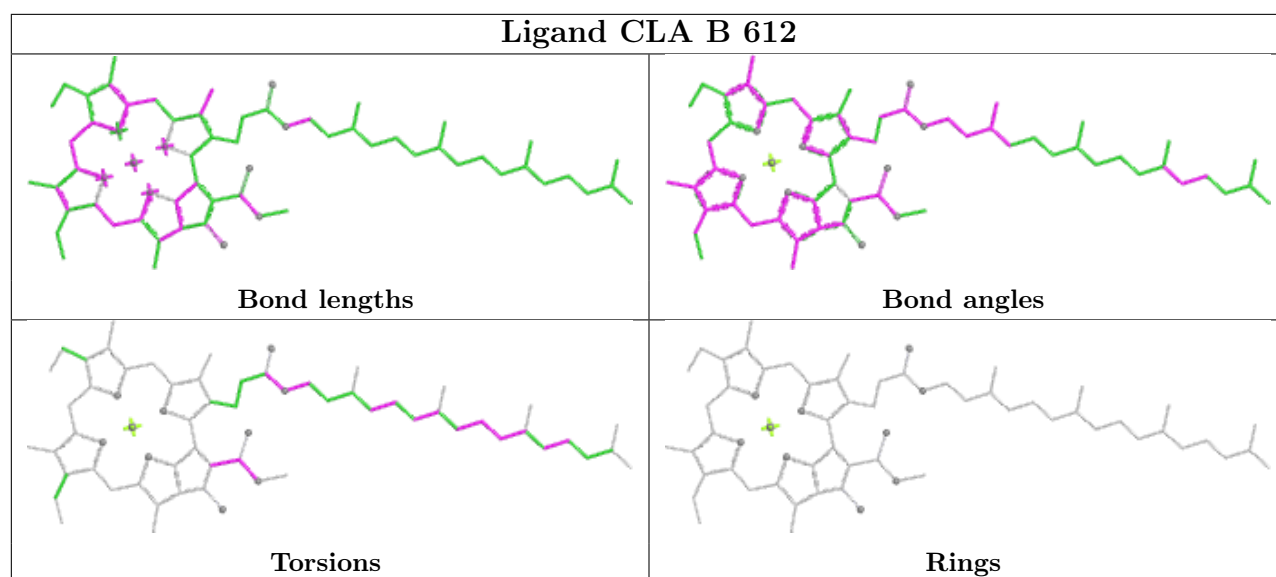


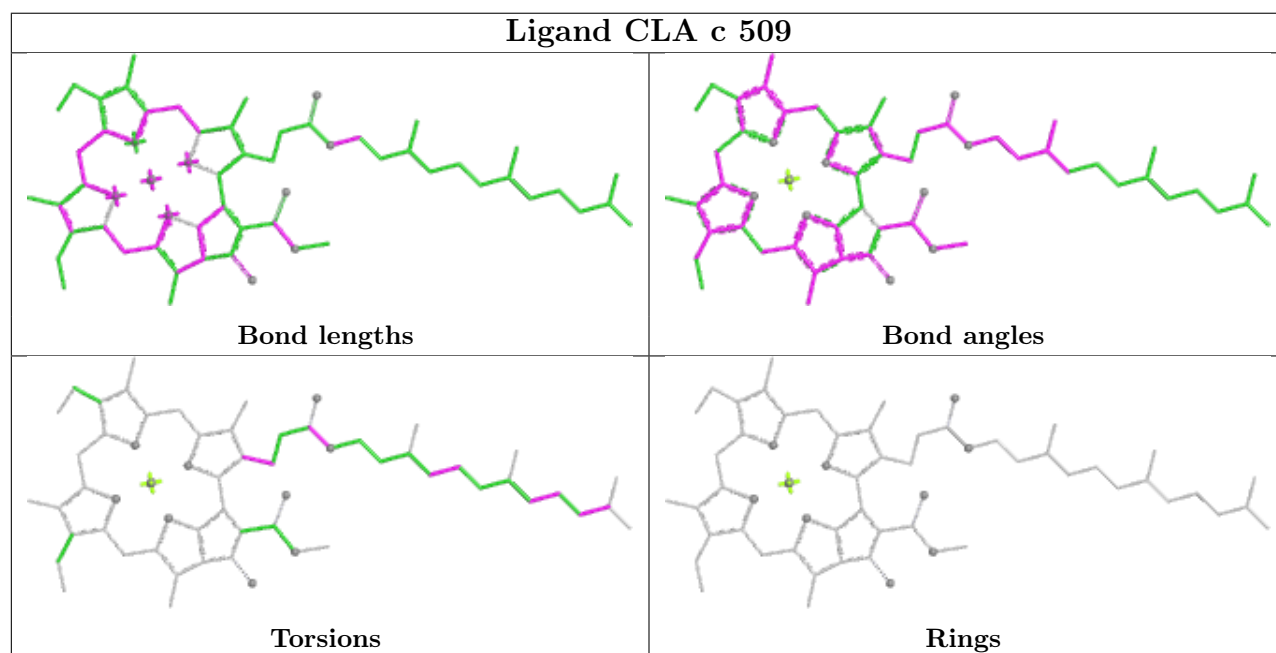
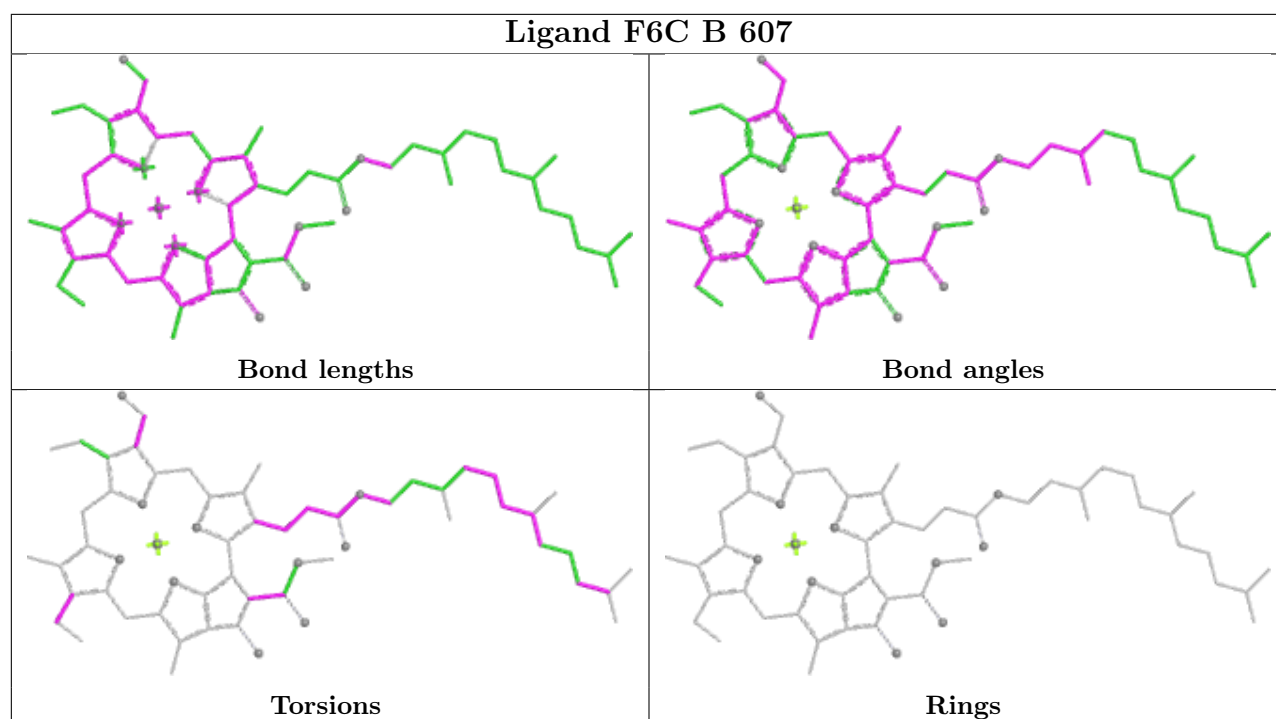
Ligand F6C b 613

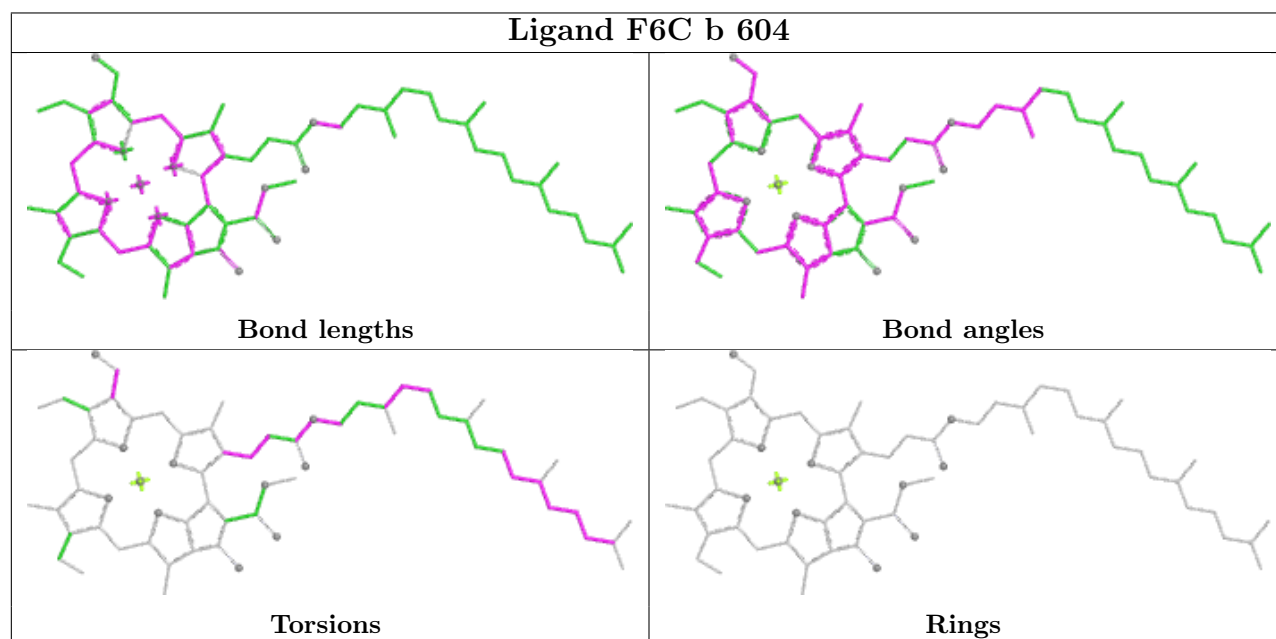
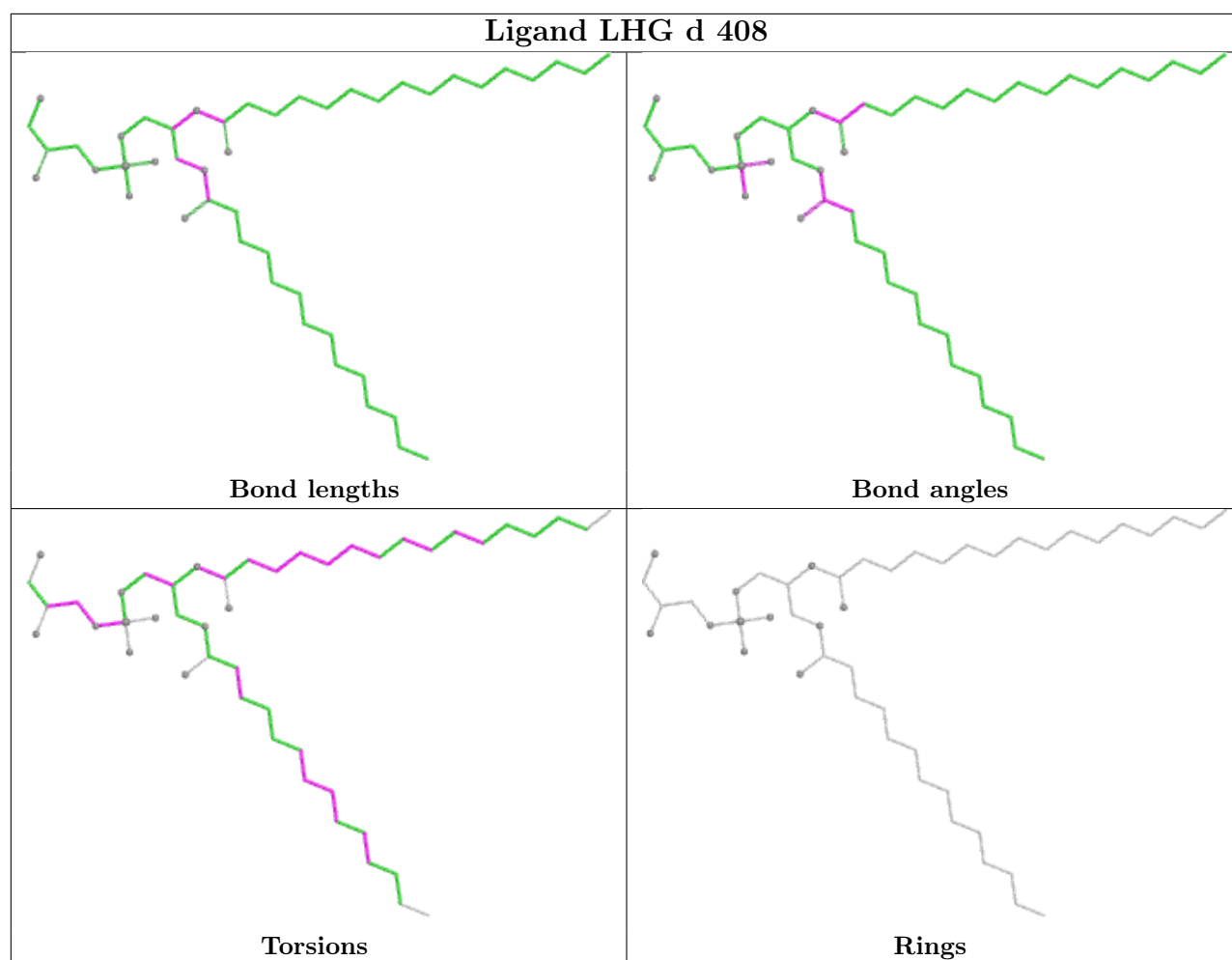


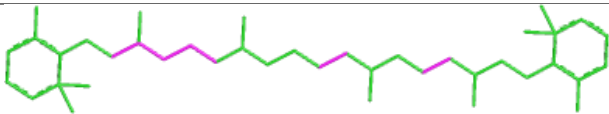
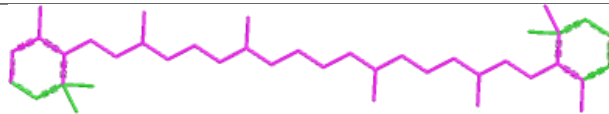
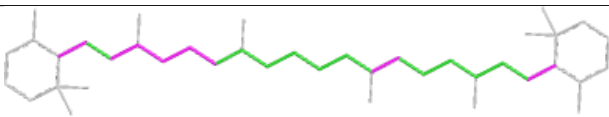
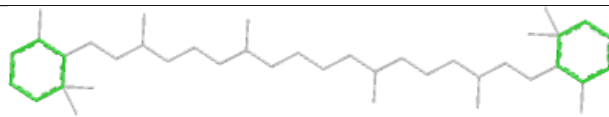
Ligand CLA C 505

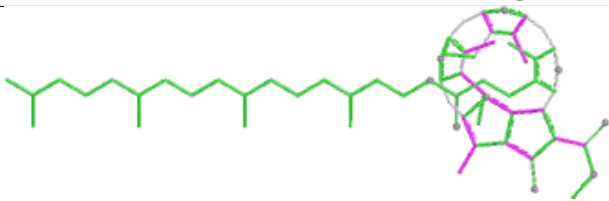
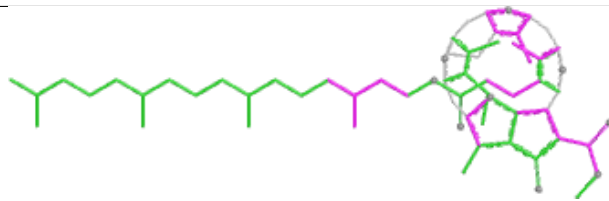
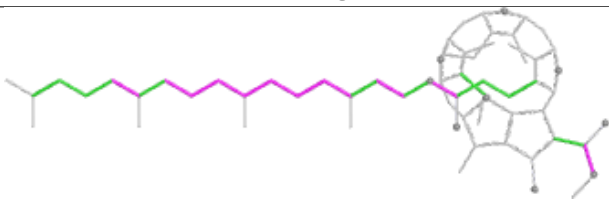
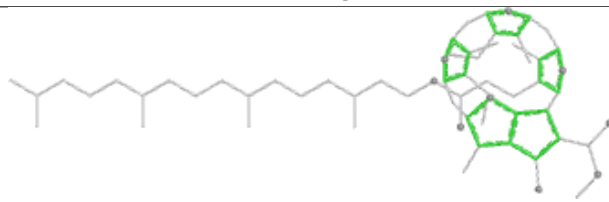


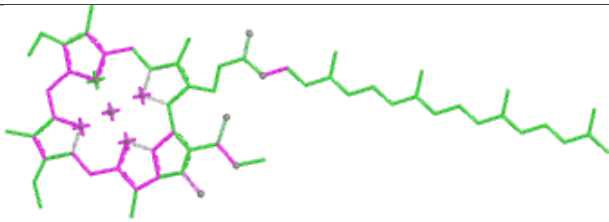
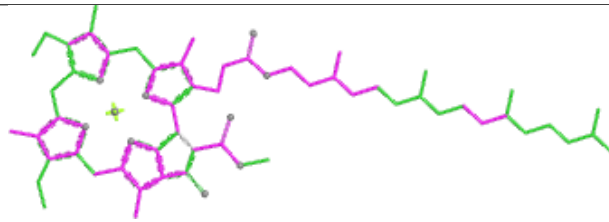
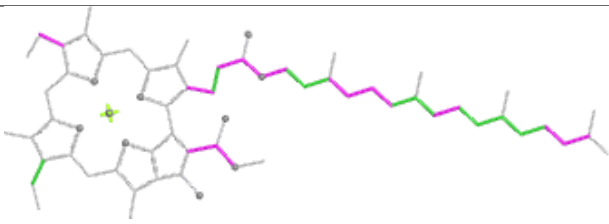
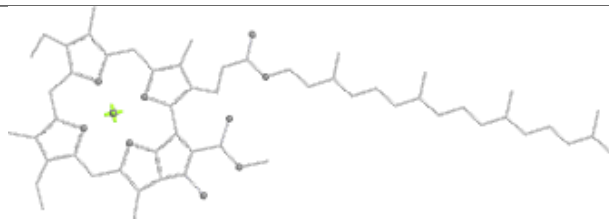


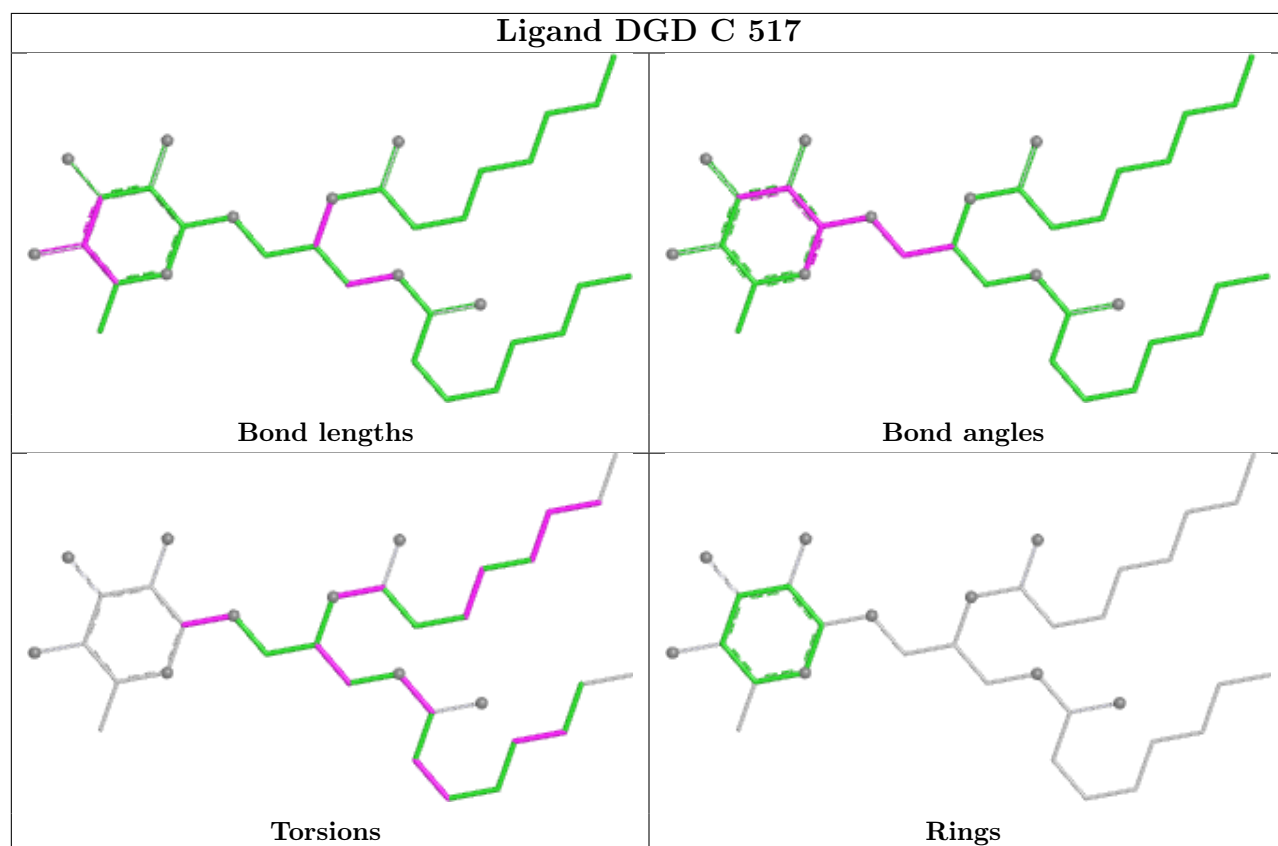
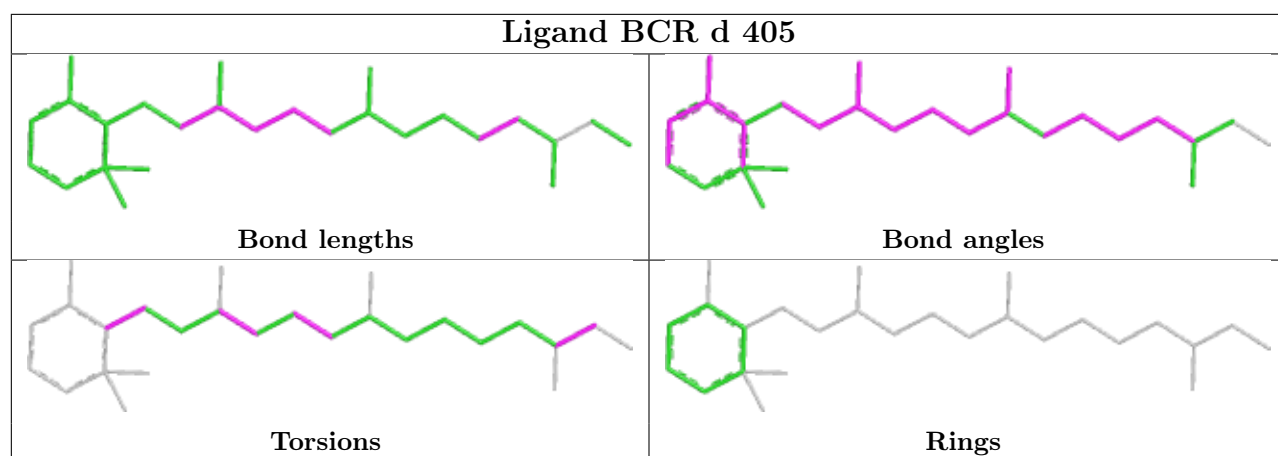




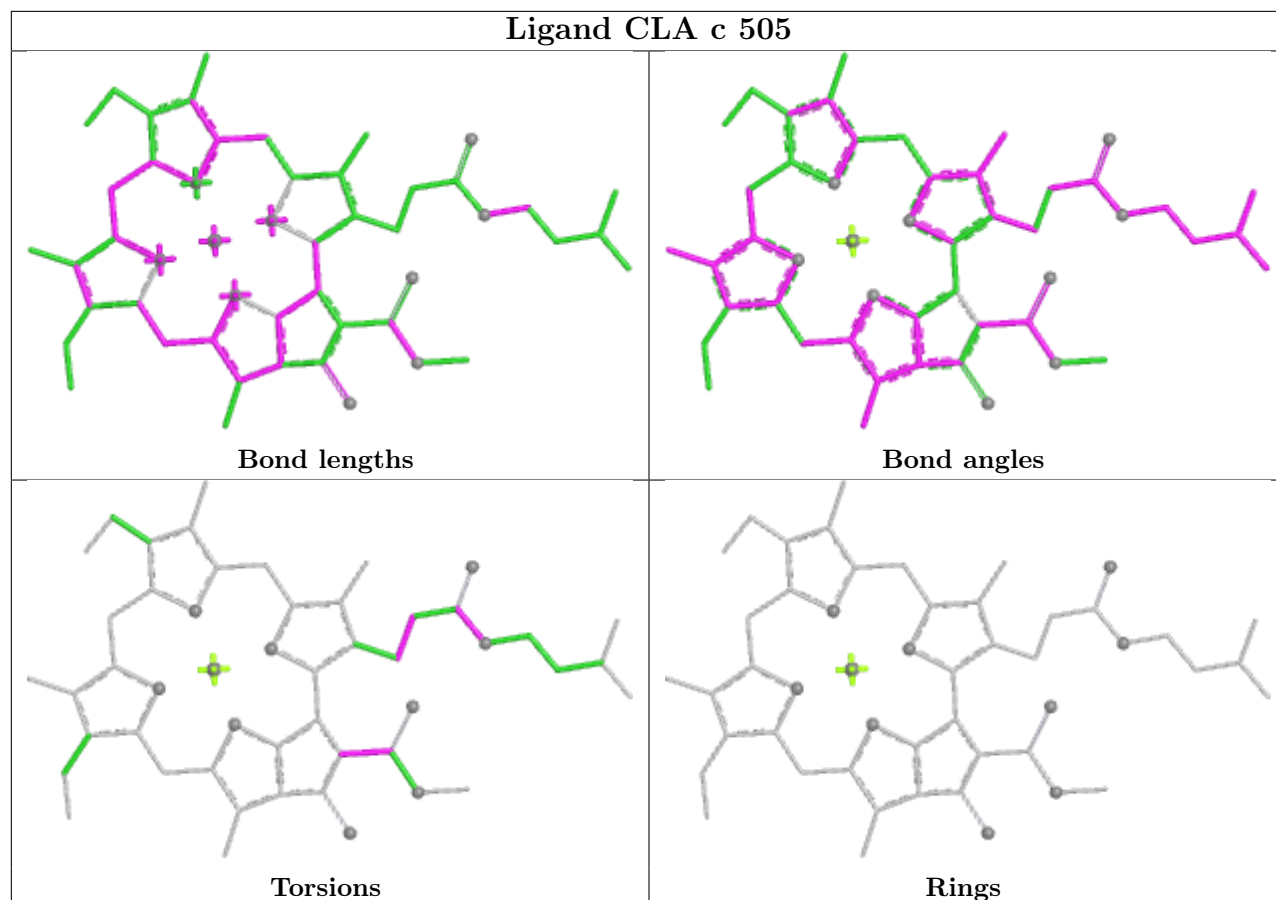
Ligand BCR B 616	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand PHO a 406	
	
Bond lengths	Bond angles
	
Torsions	Rings

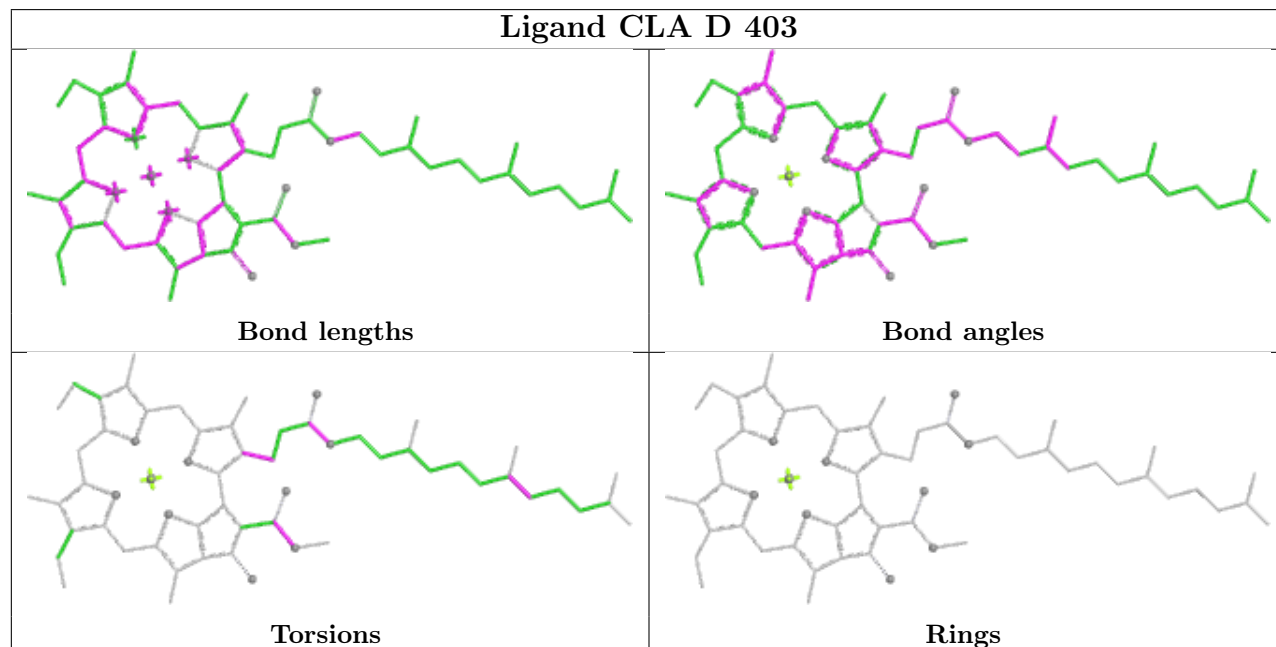
Ligand CLA c 504	
	
Bond lengths	Bond angles
	
Torsions	Rings

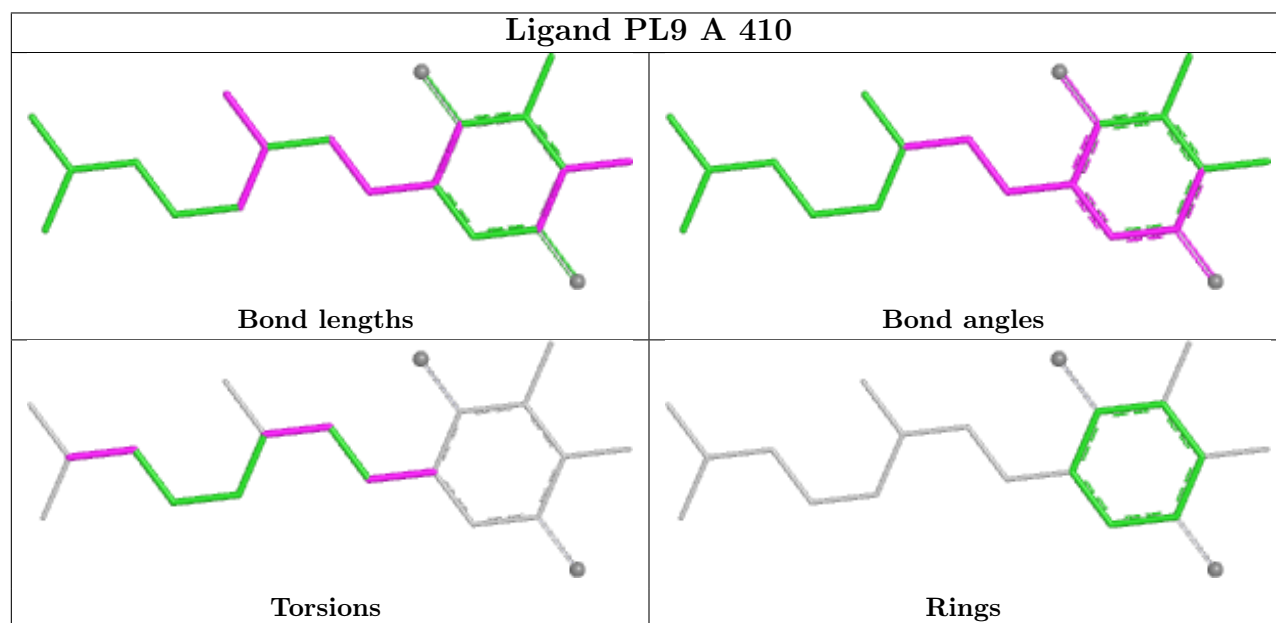
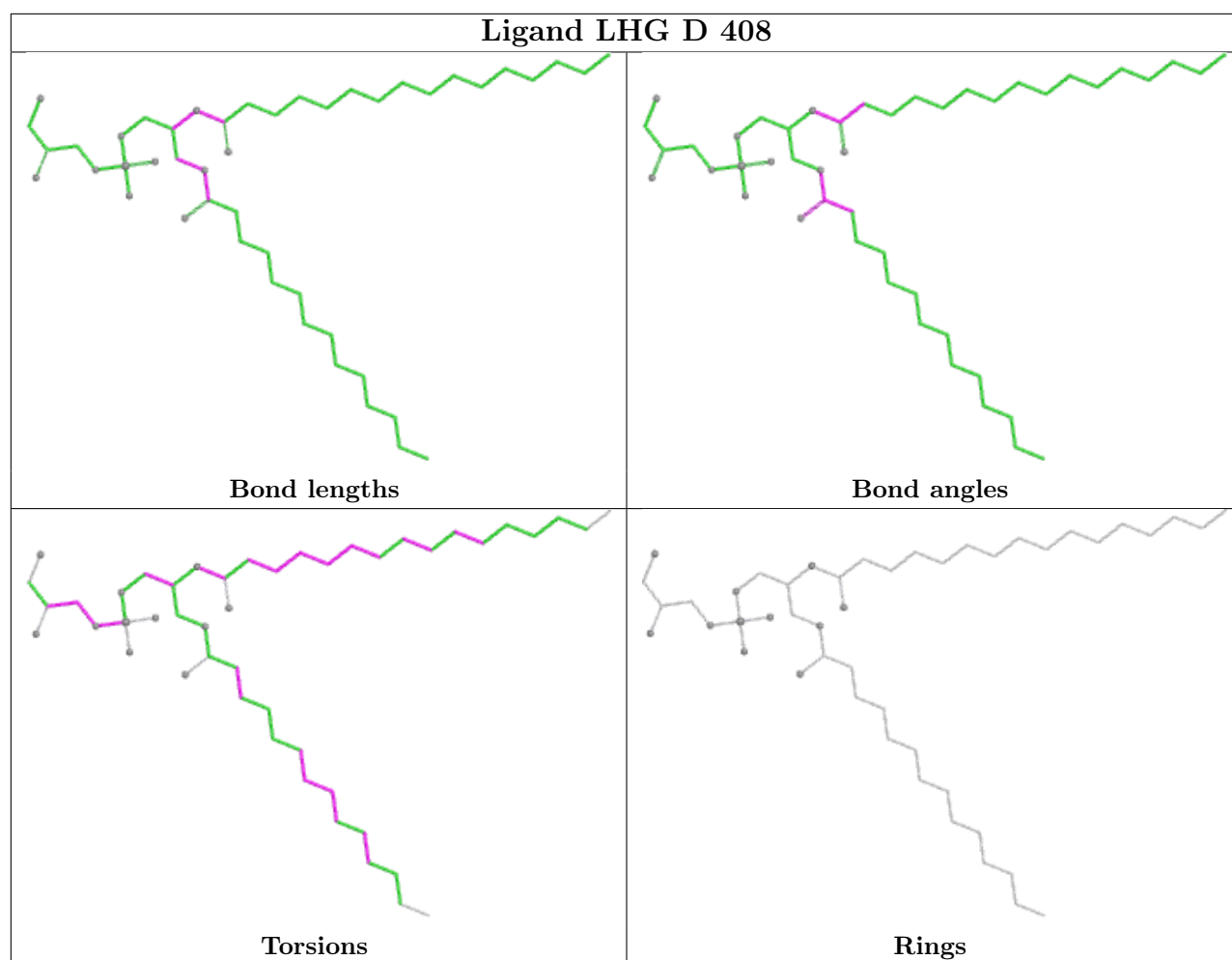


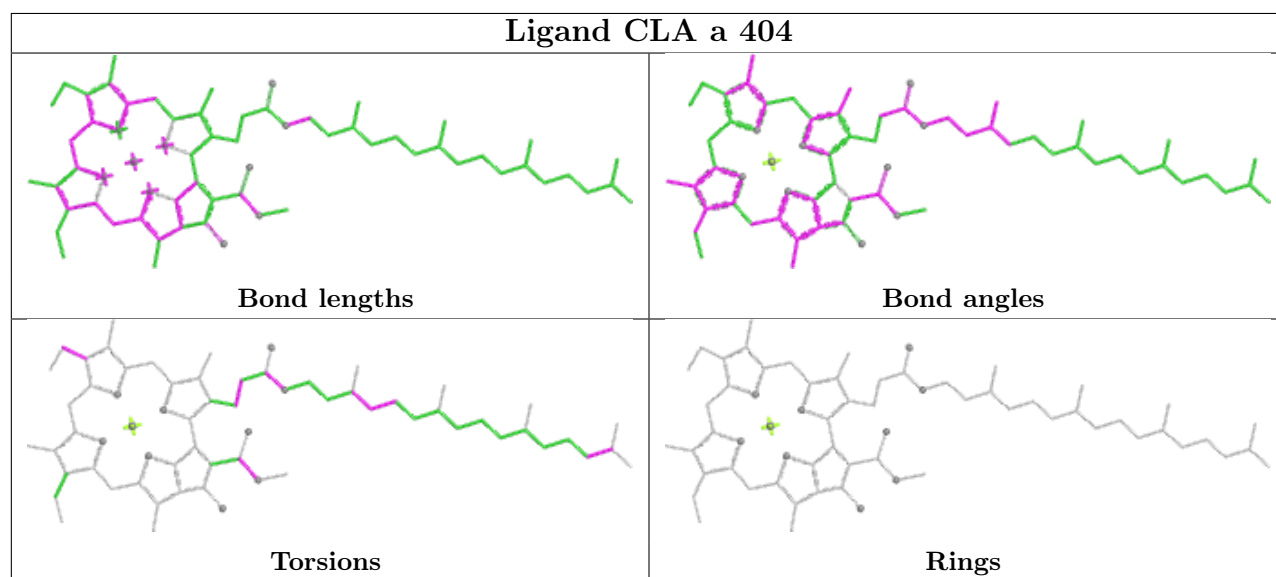
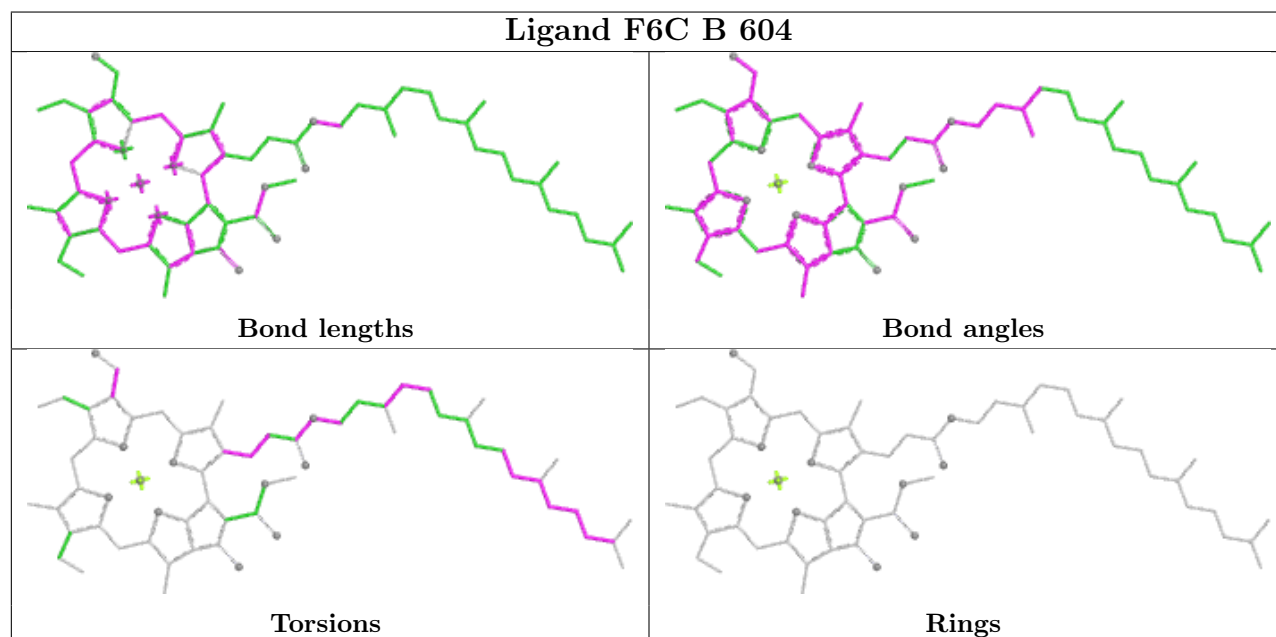
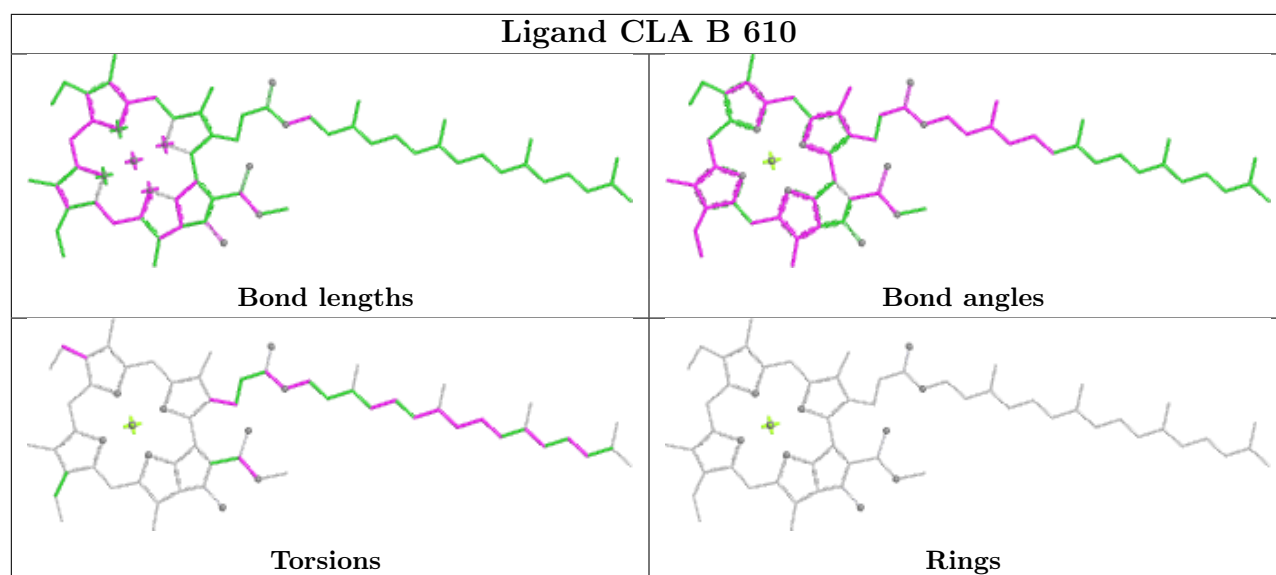
Ligand CLA c 505

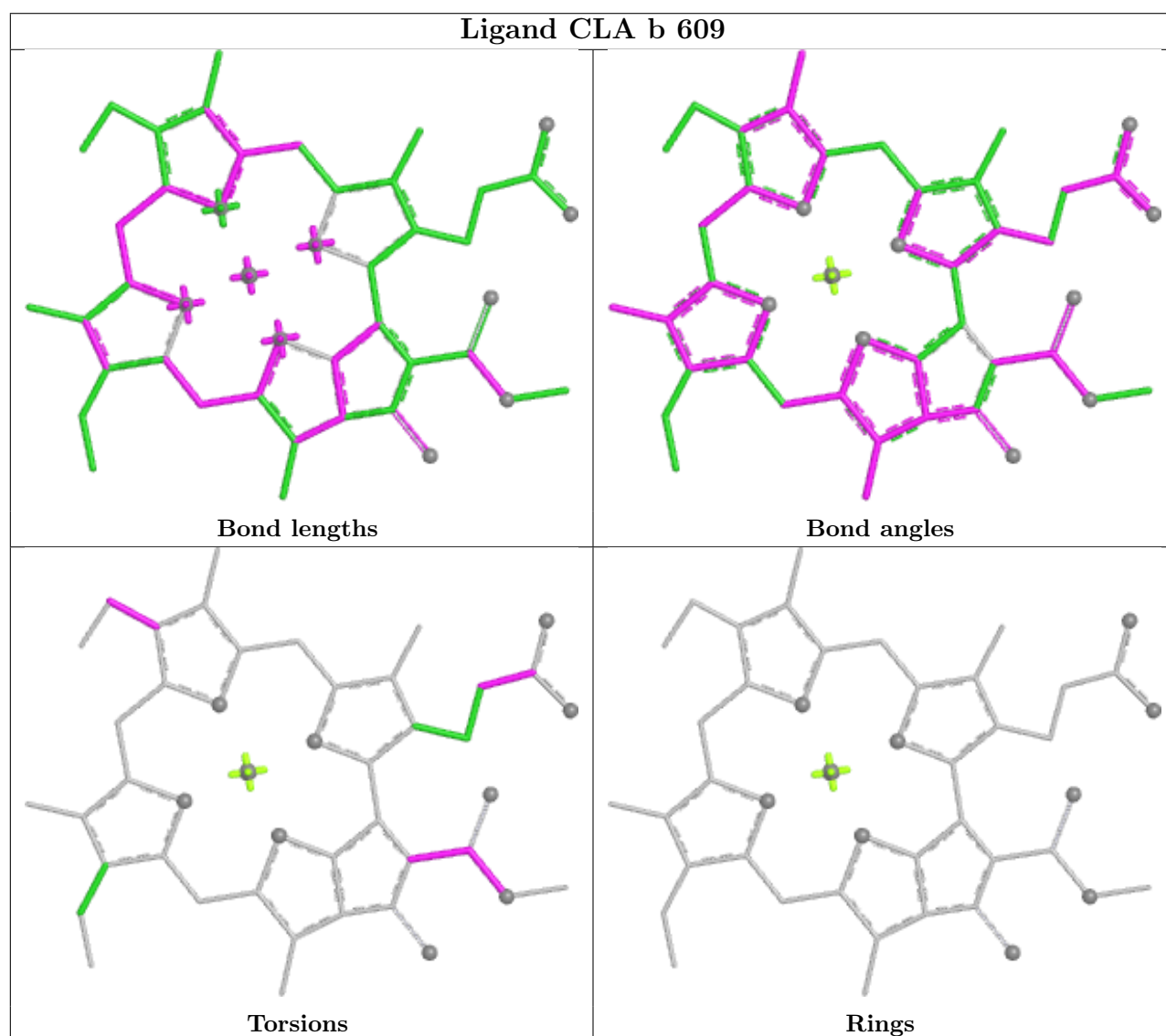
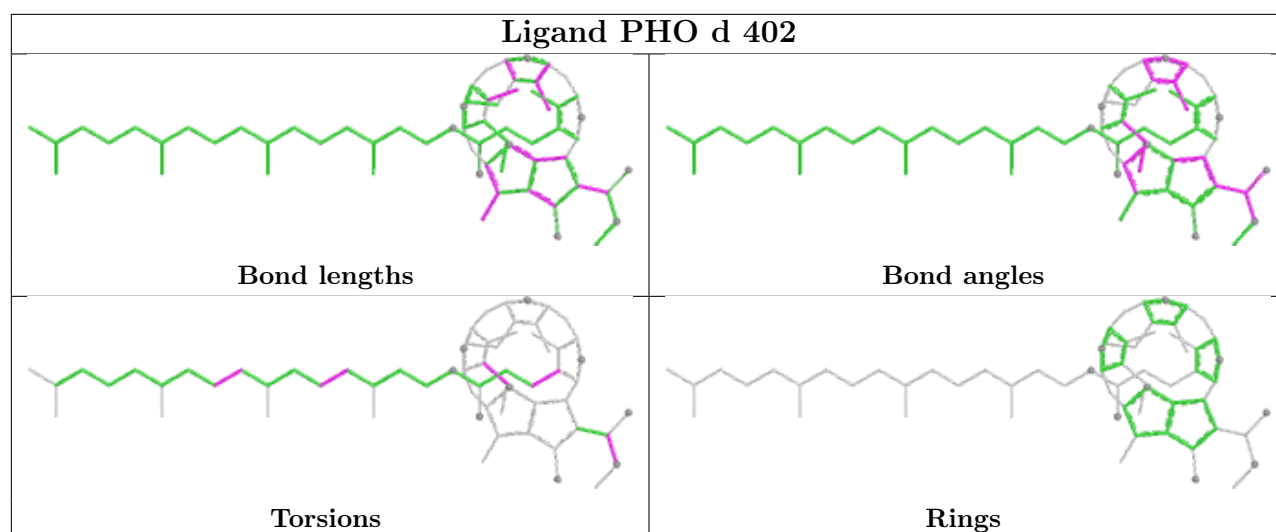


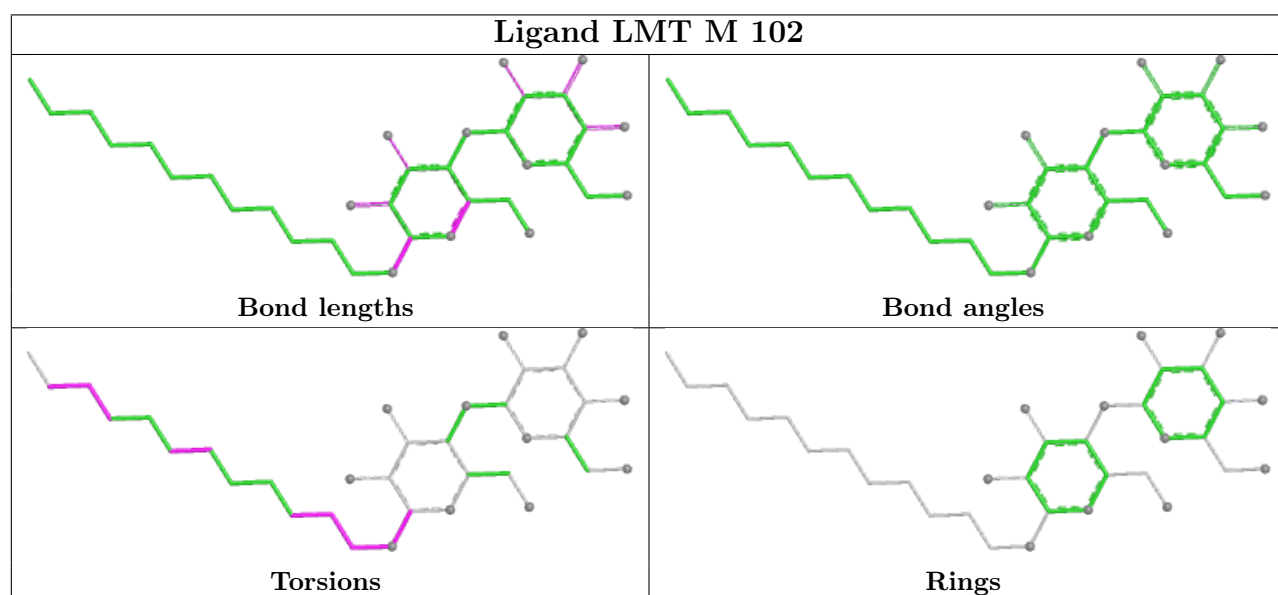
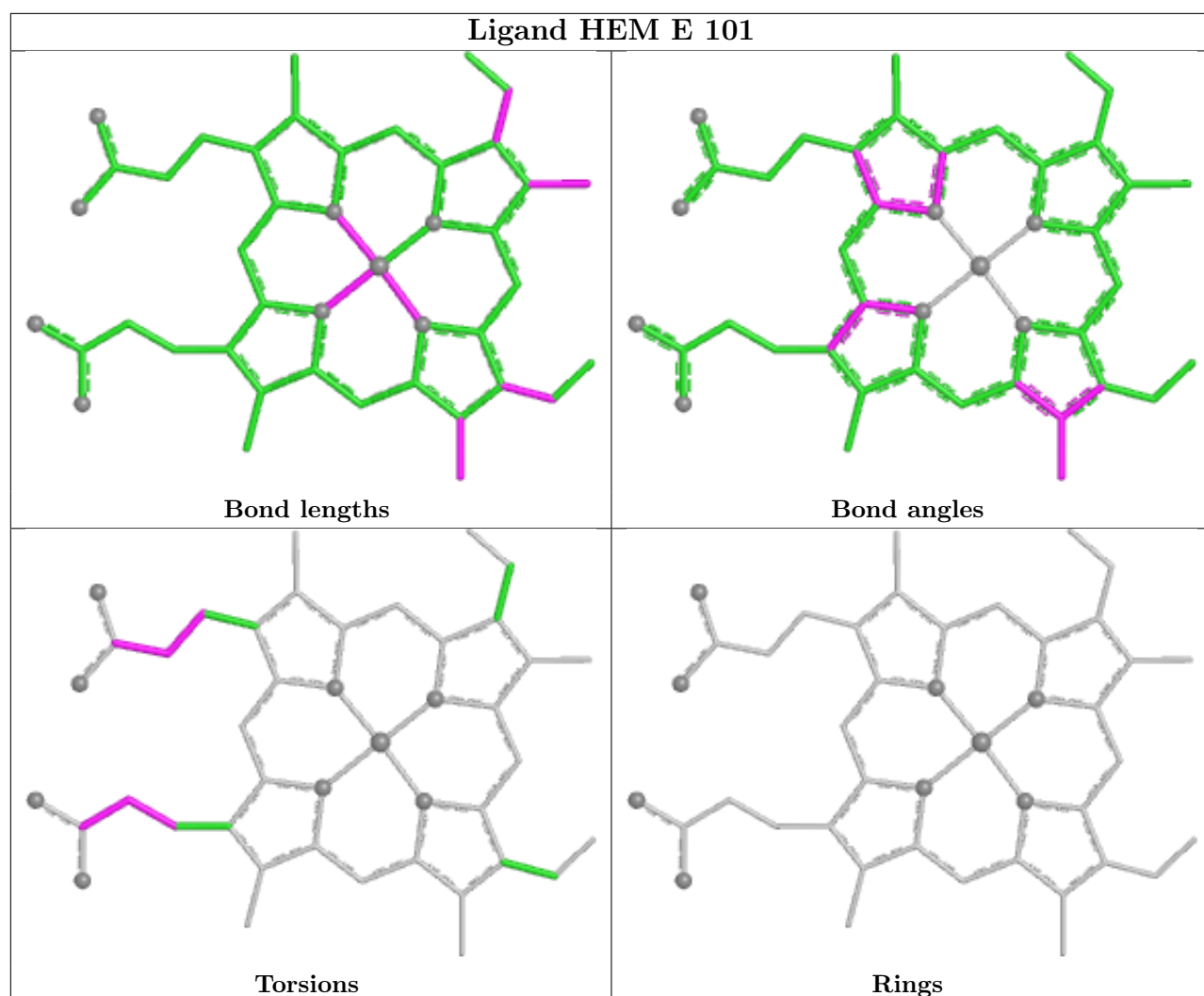
Ligand CLA D 403

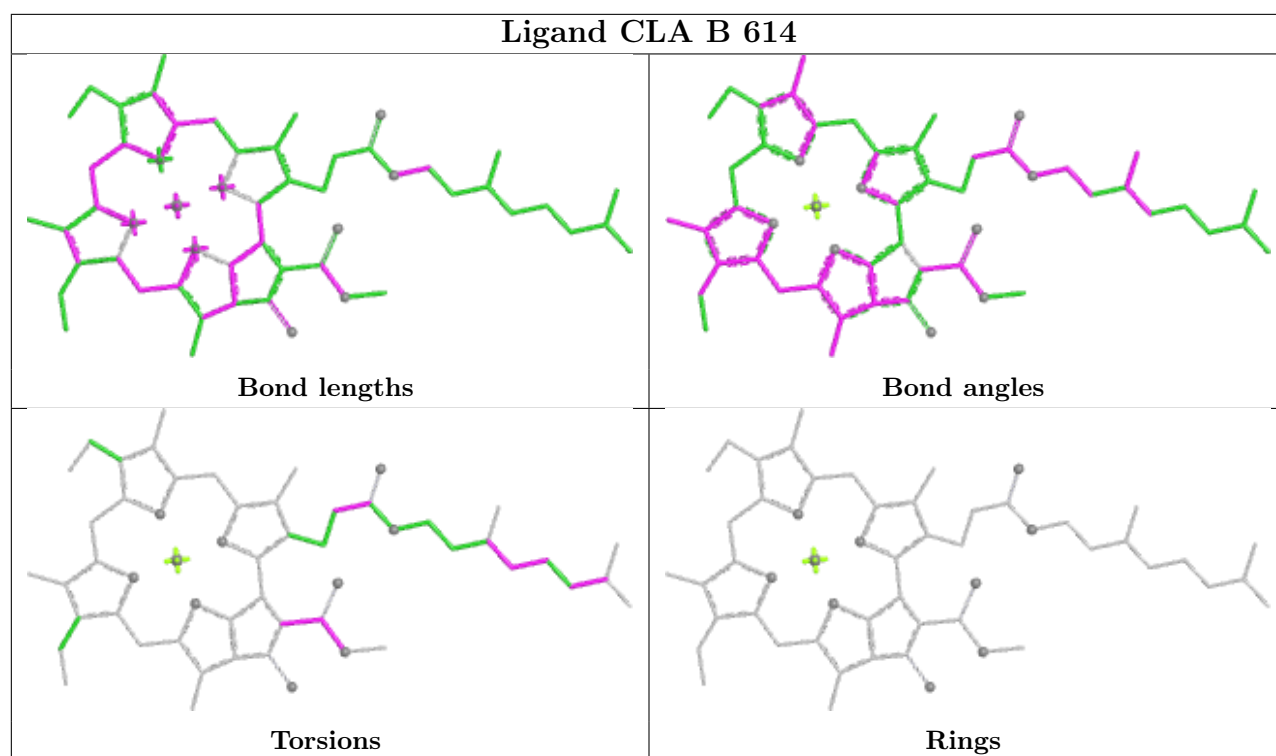




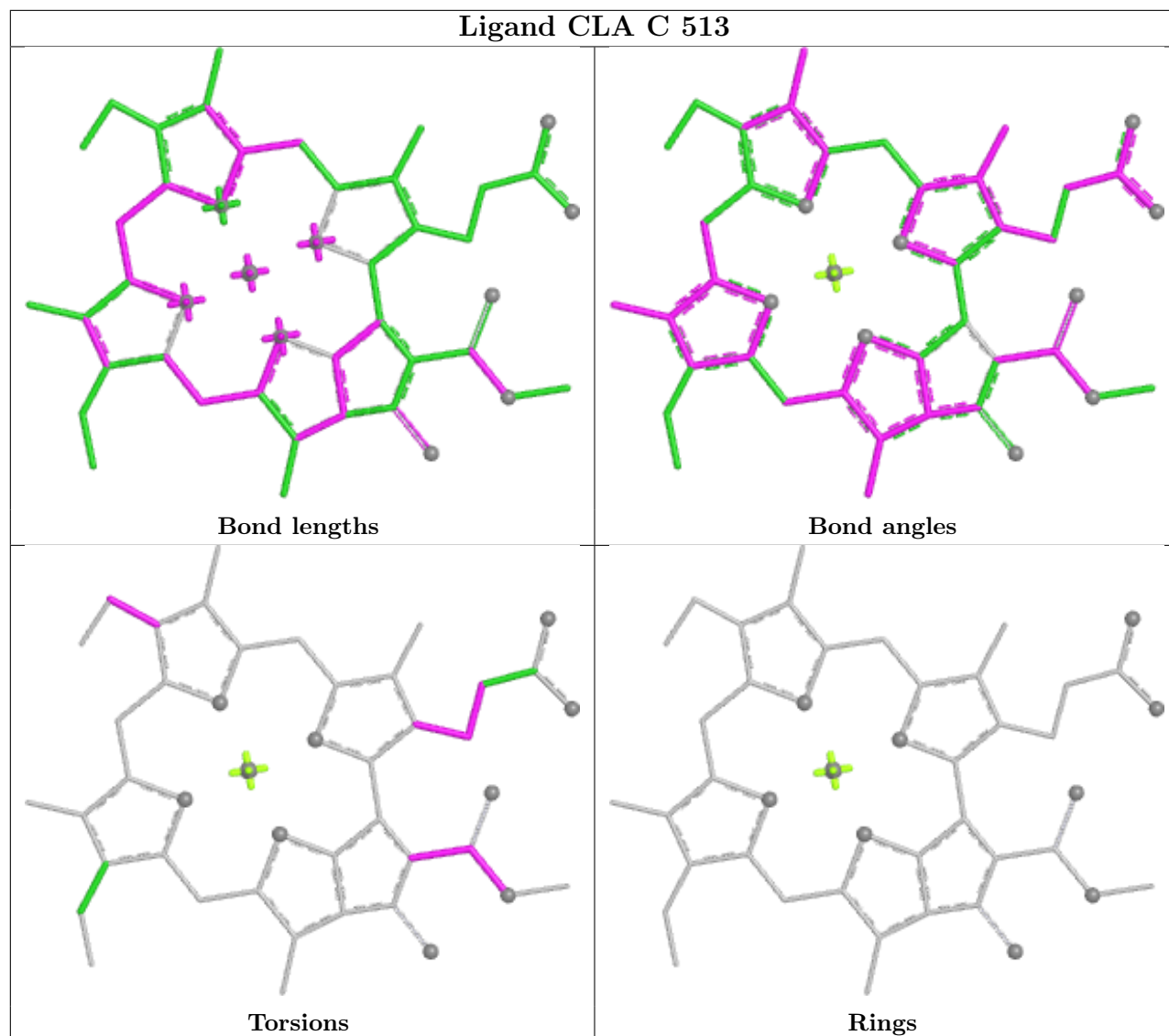




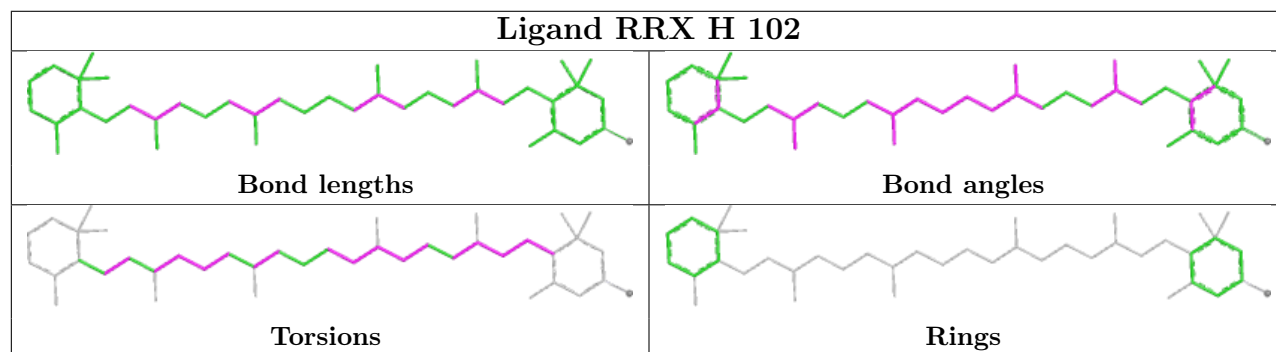


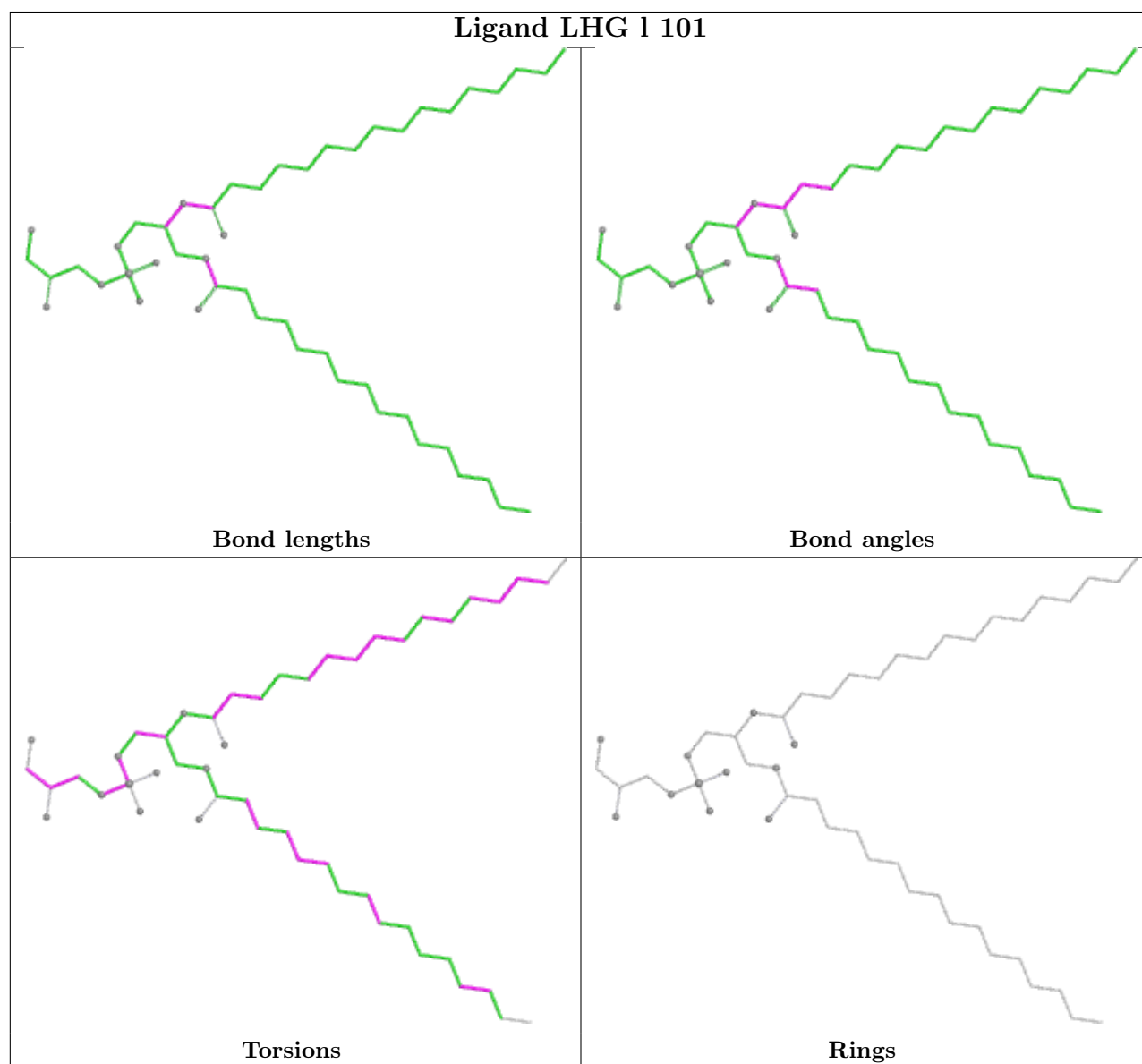
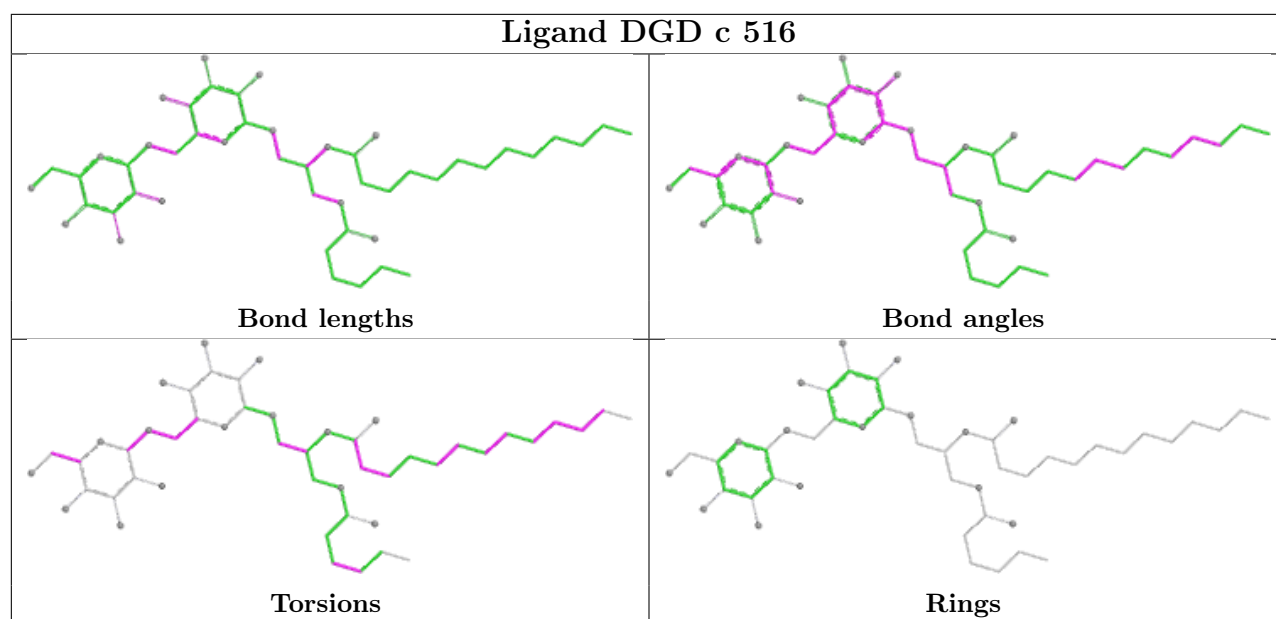


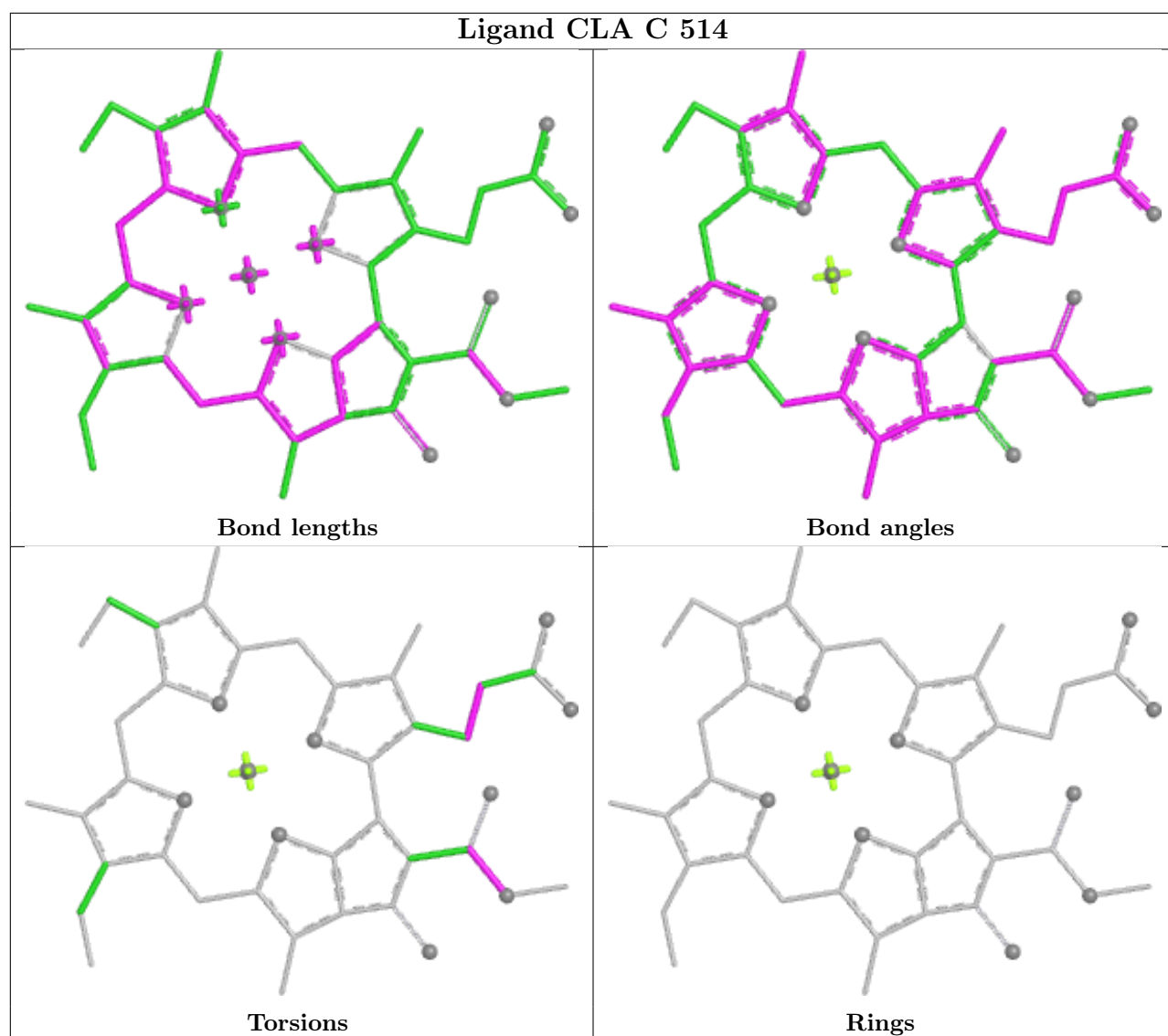
Ligand CLA C 513

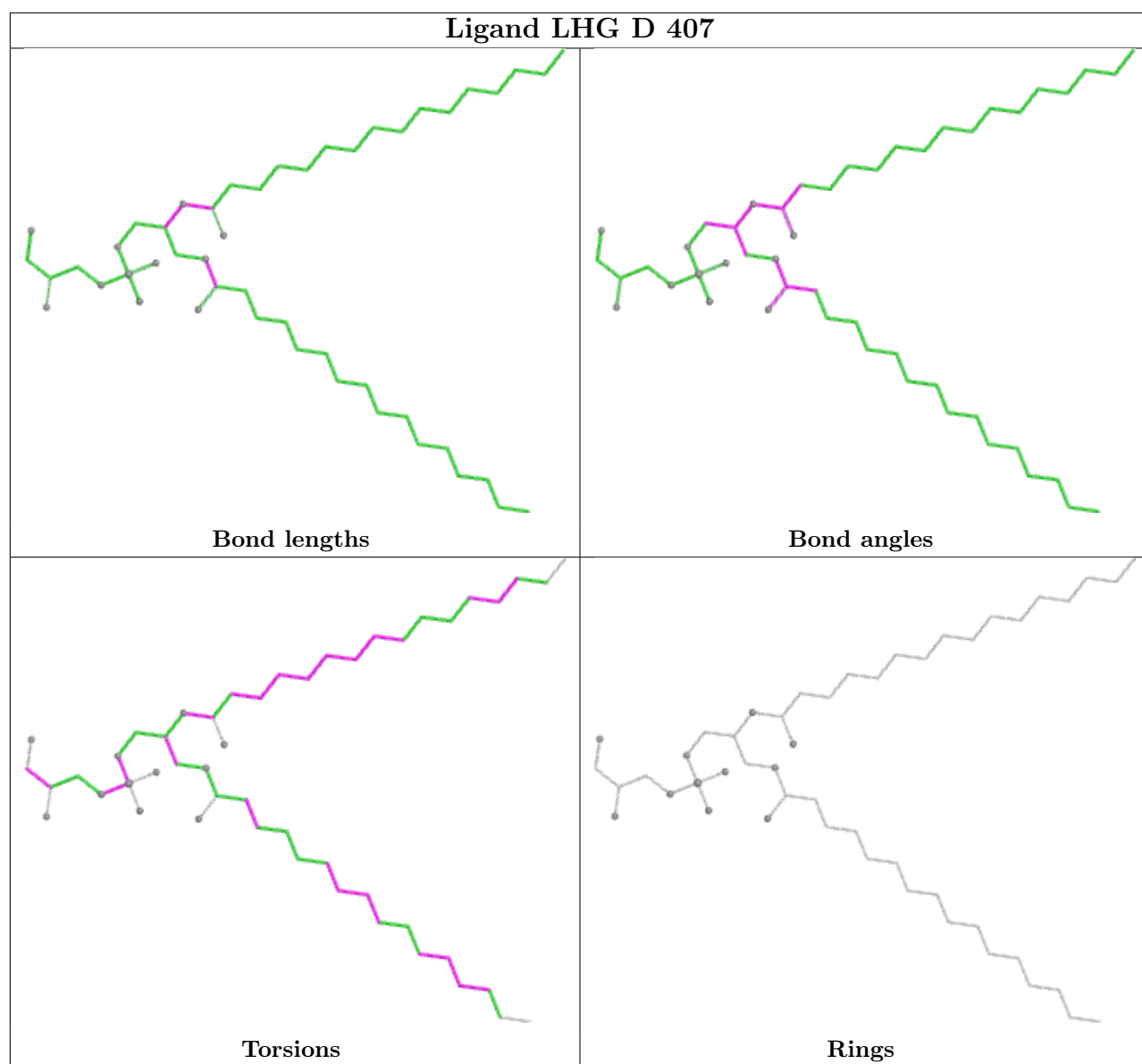


Ligand RRX H 102

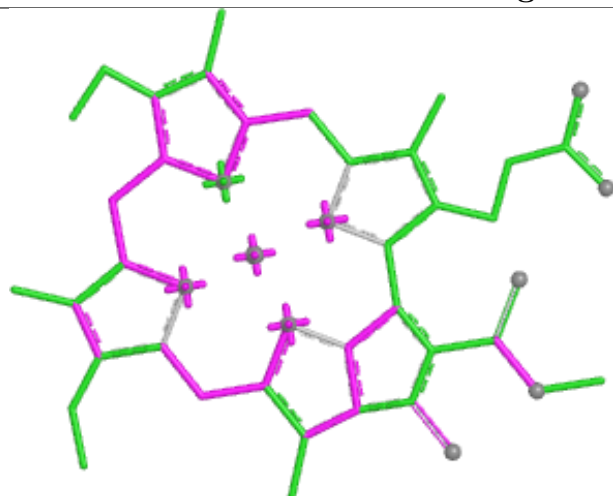




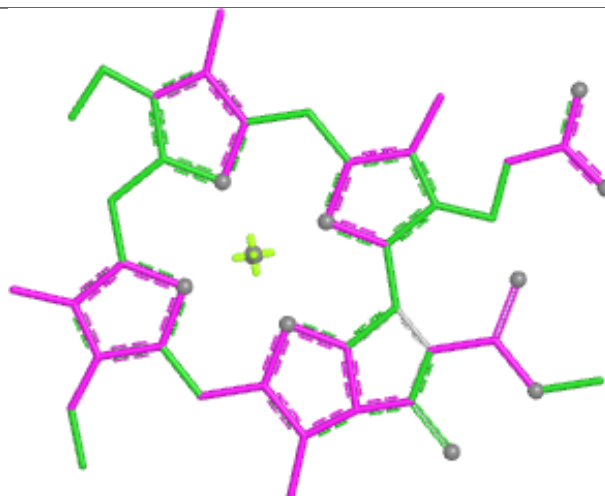




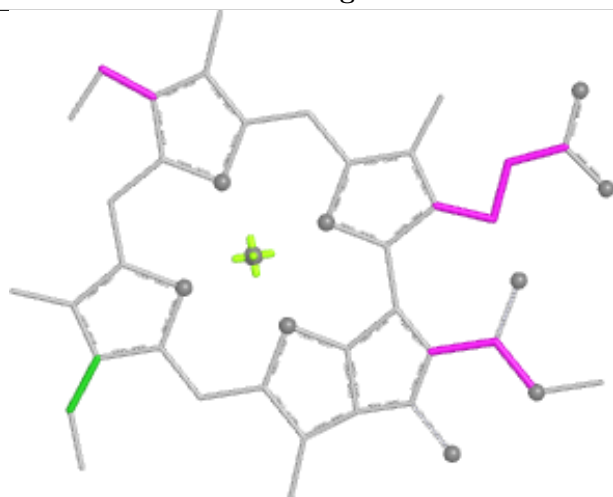
Ligand CLA b 601



Bond lengths



Bond angles

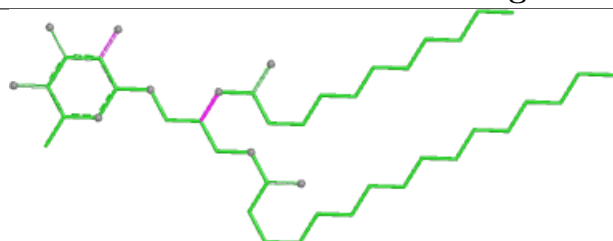


Torsions

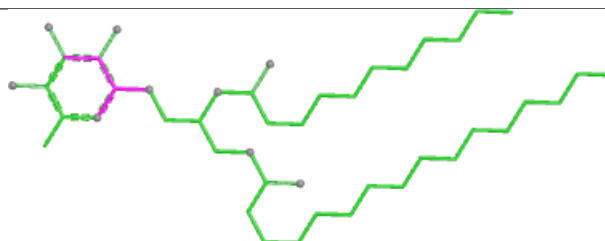


Rings

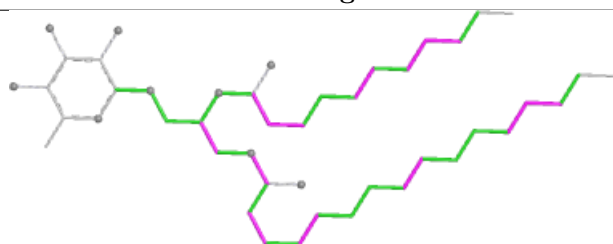
Ligand DGD D 410



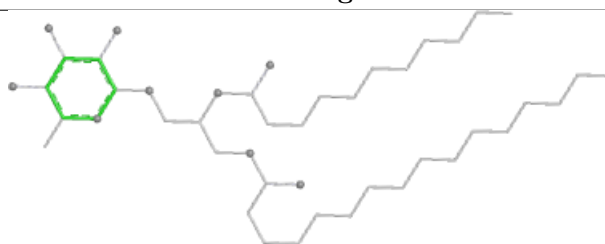
Bond lengths



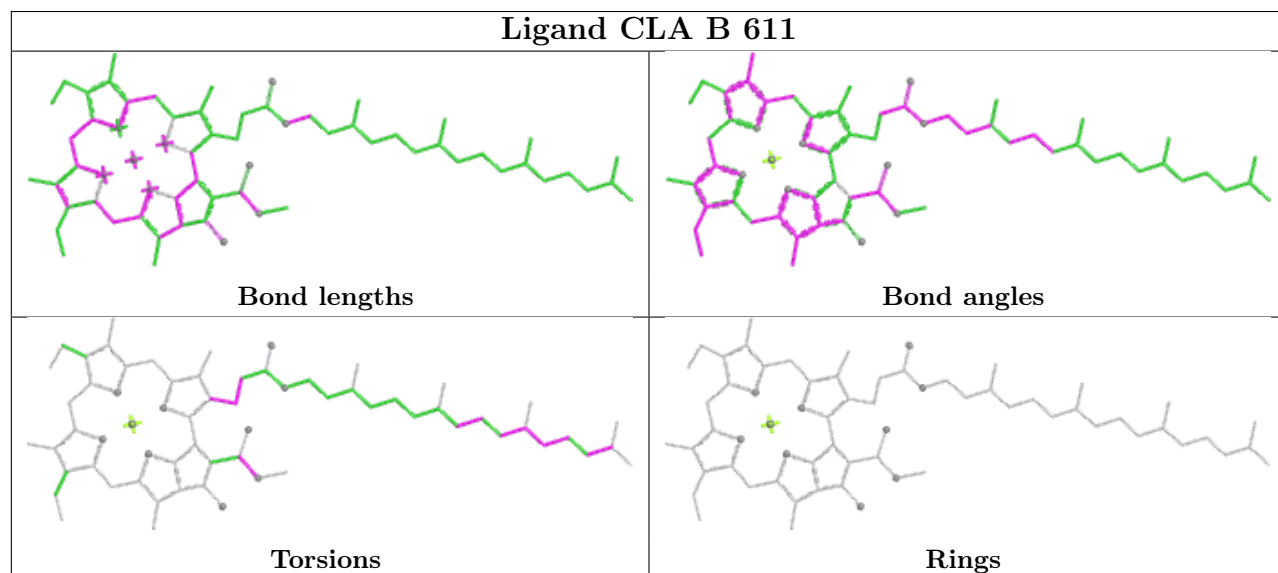
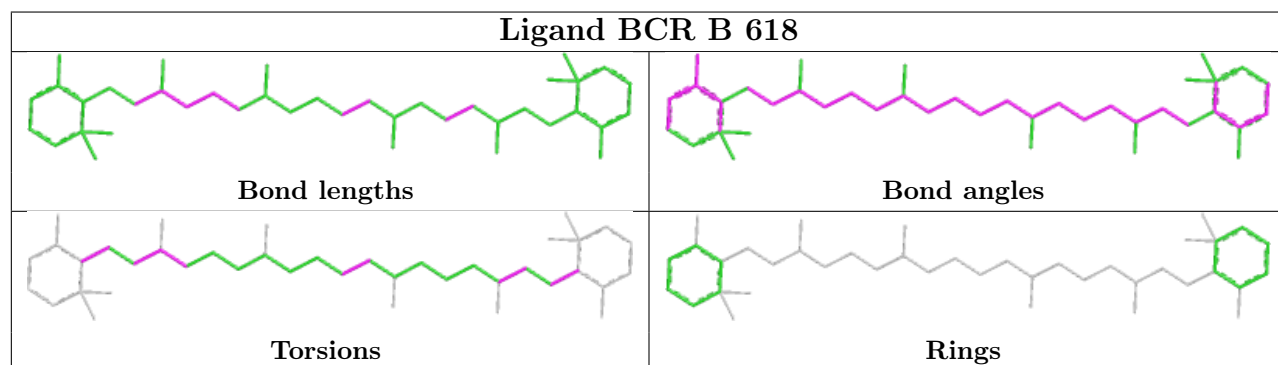
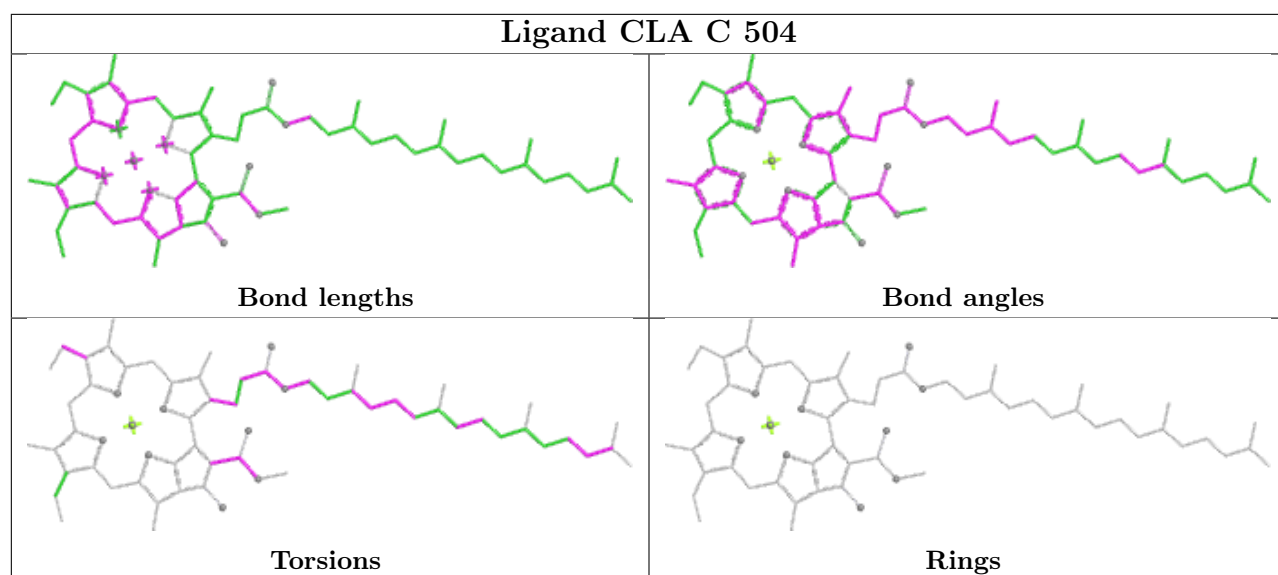
Bond angles



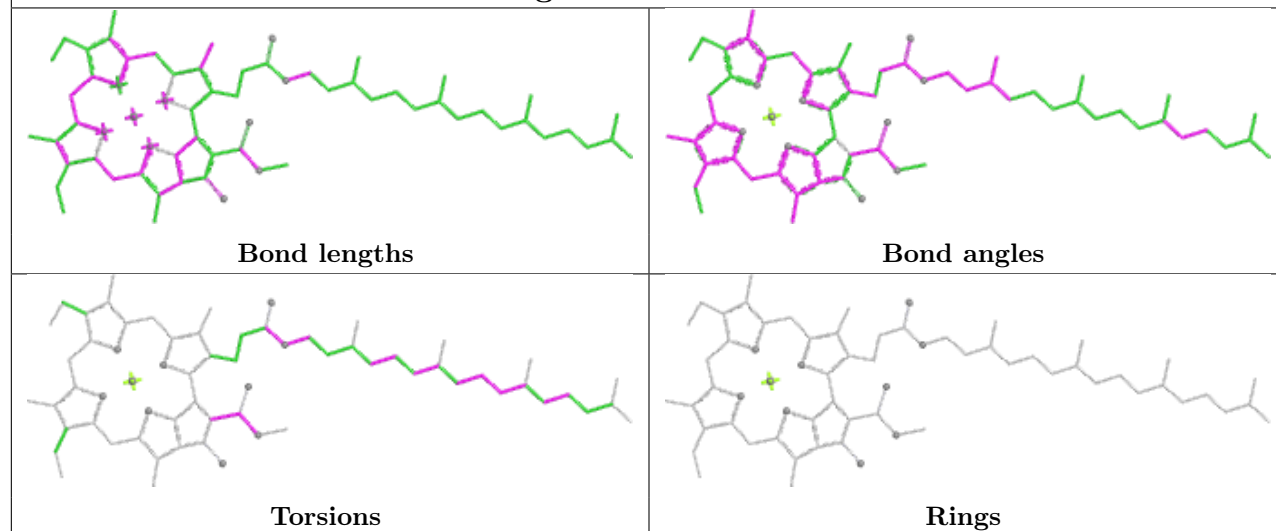
Torsions



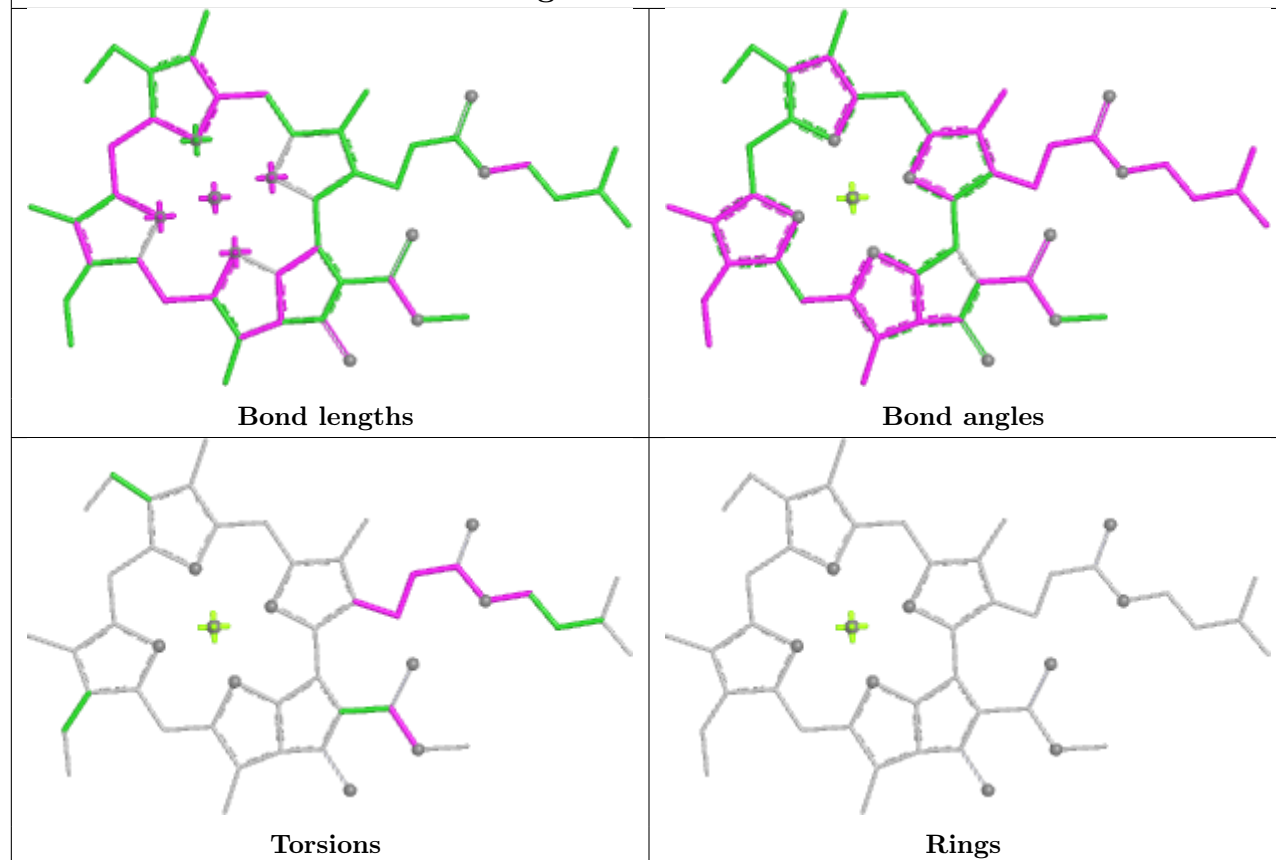
Rings

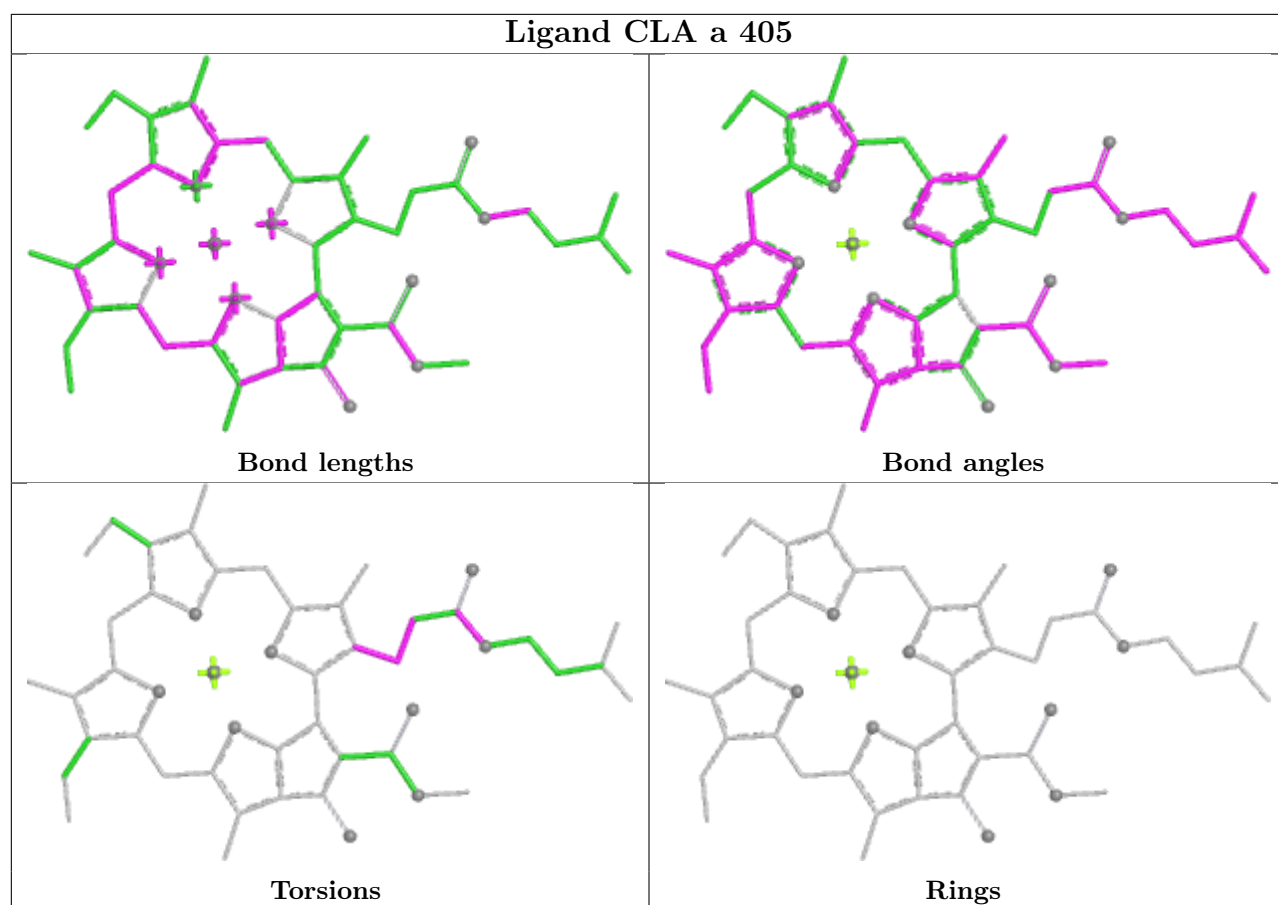


Ligand CLA b 612

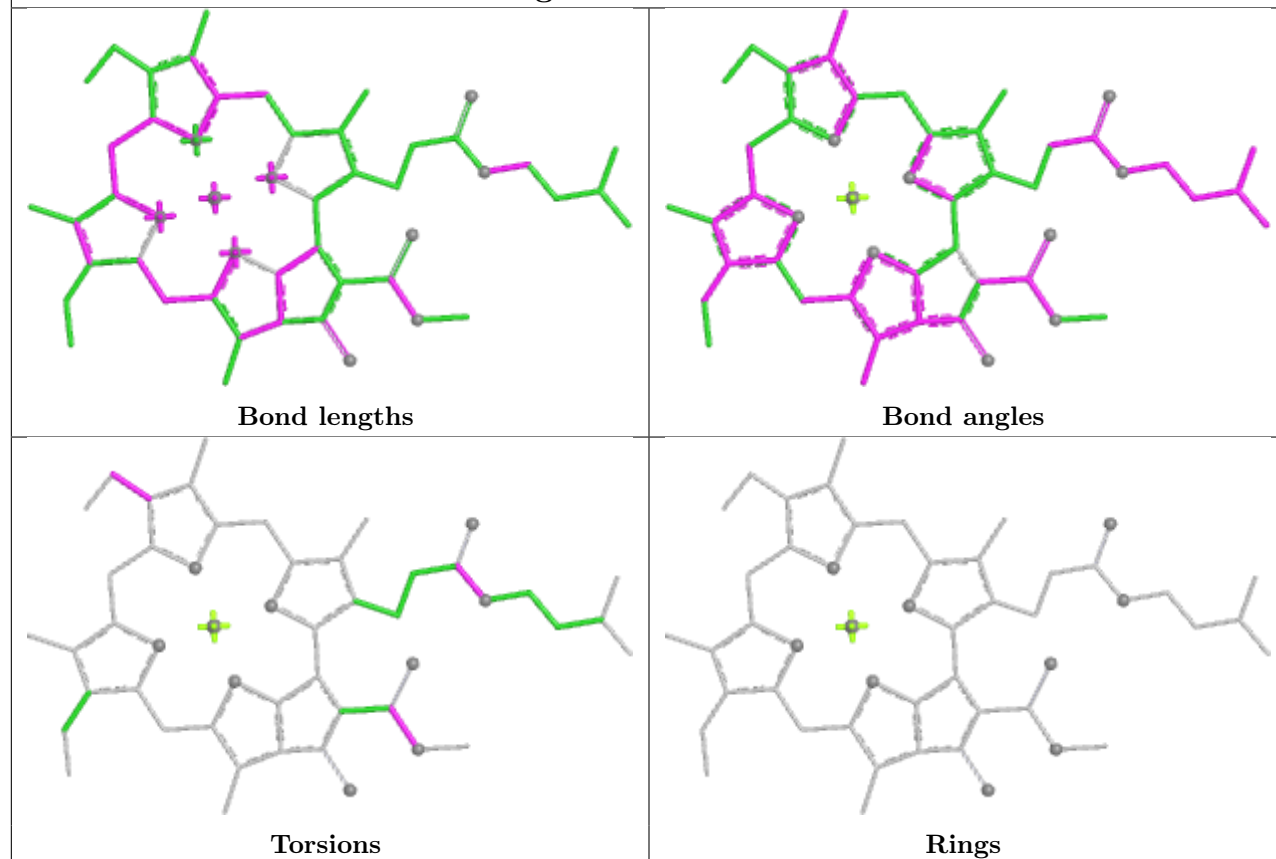


Ligand CLA c 512

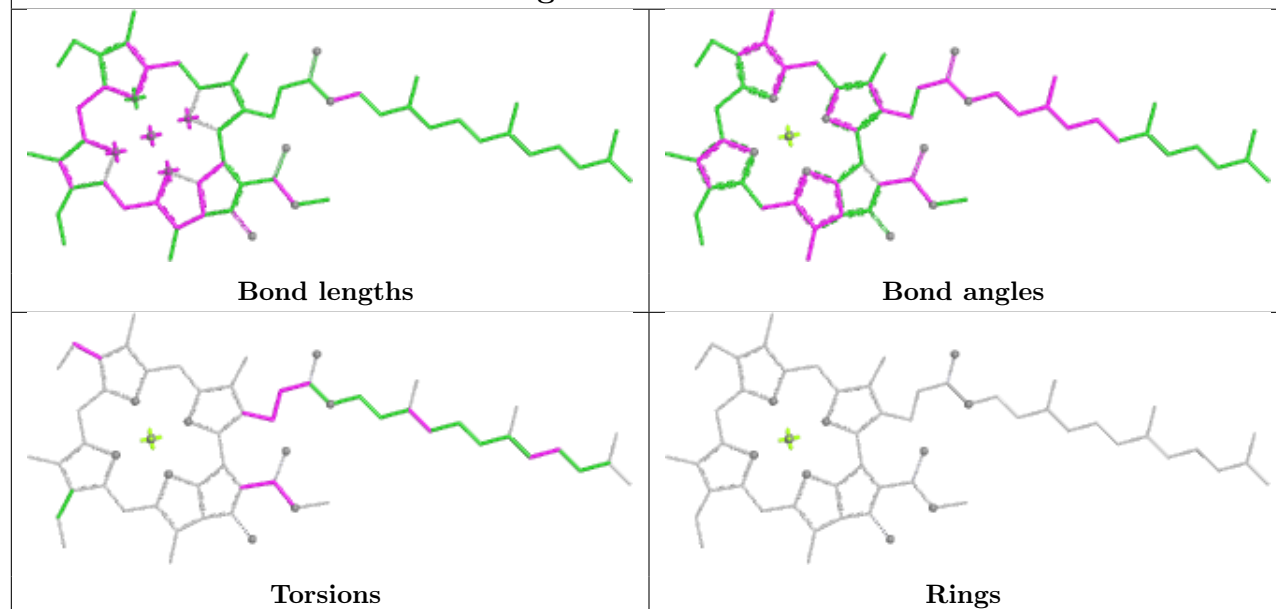


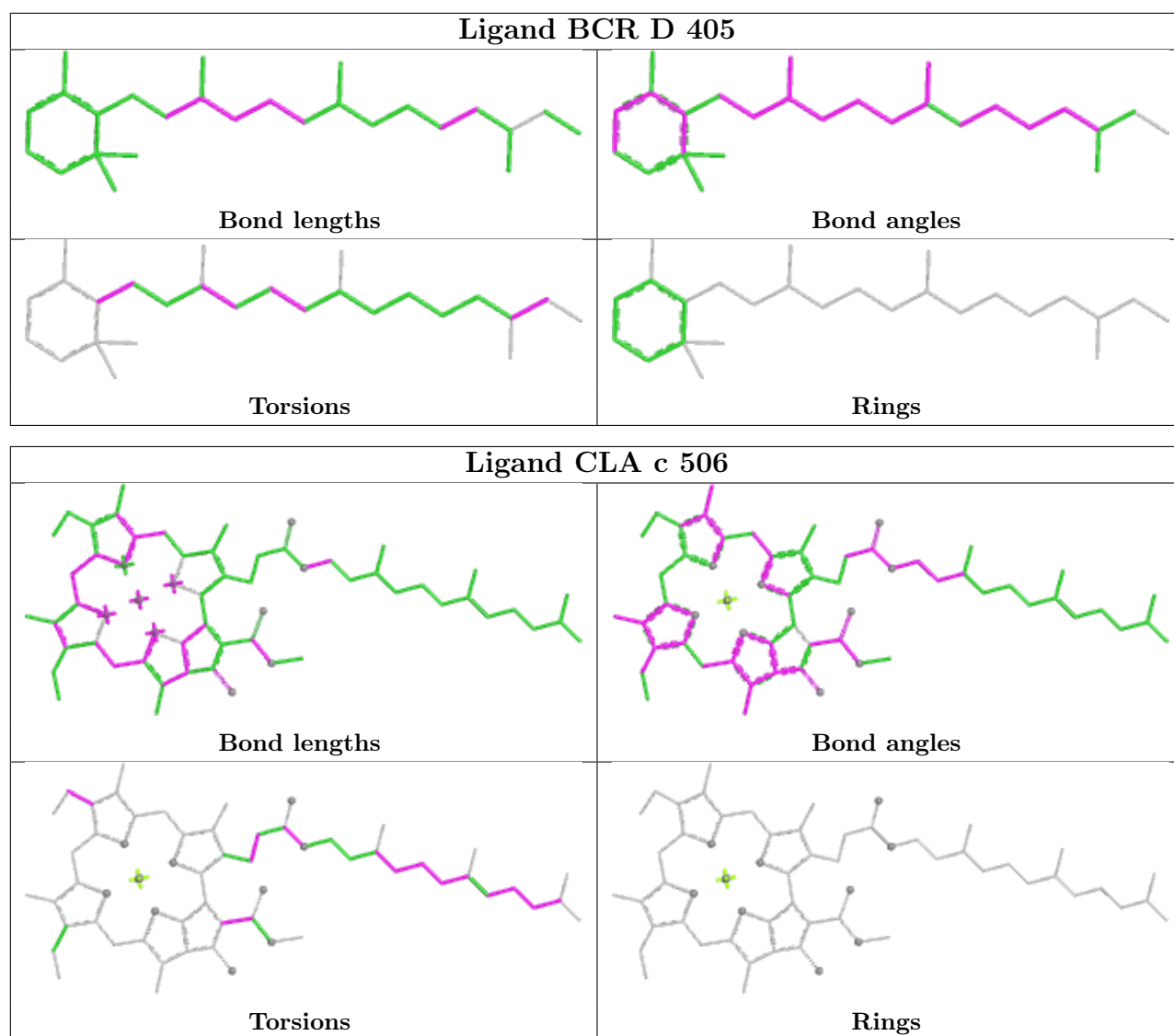


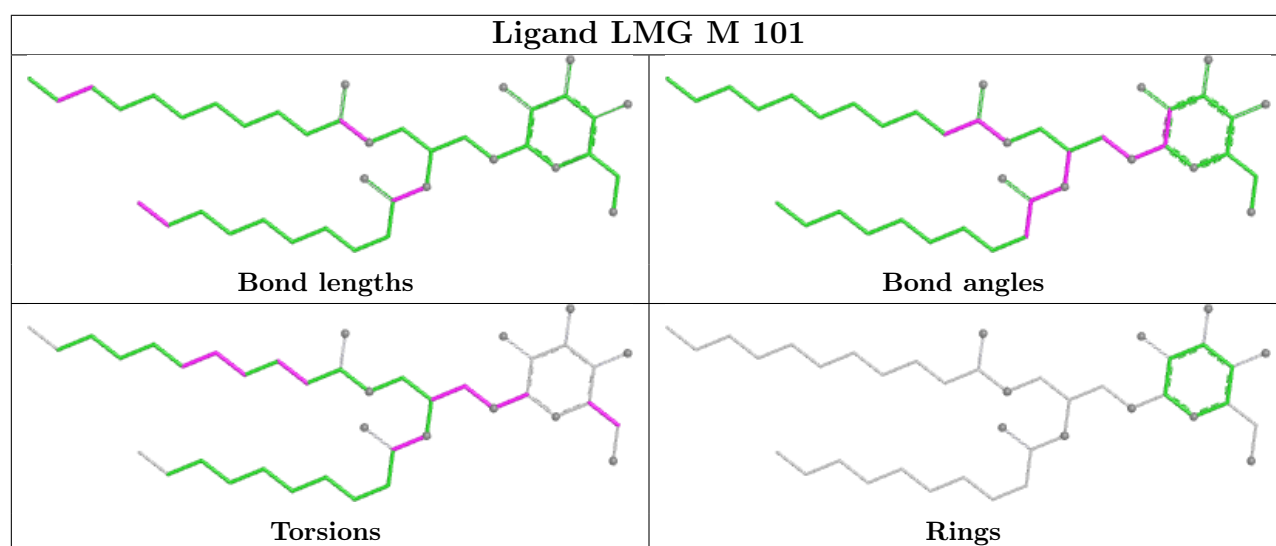
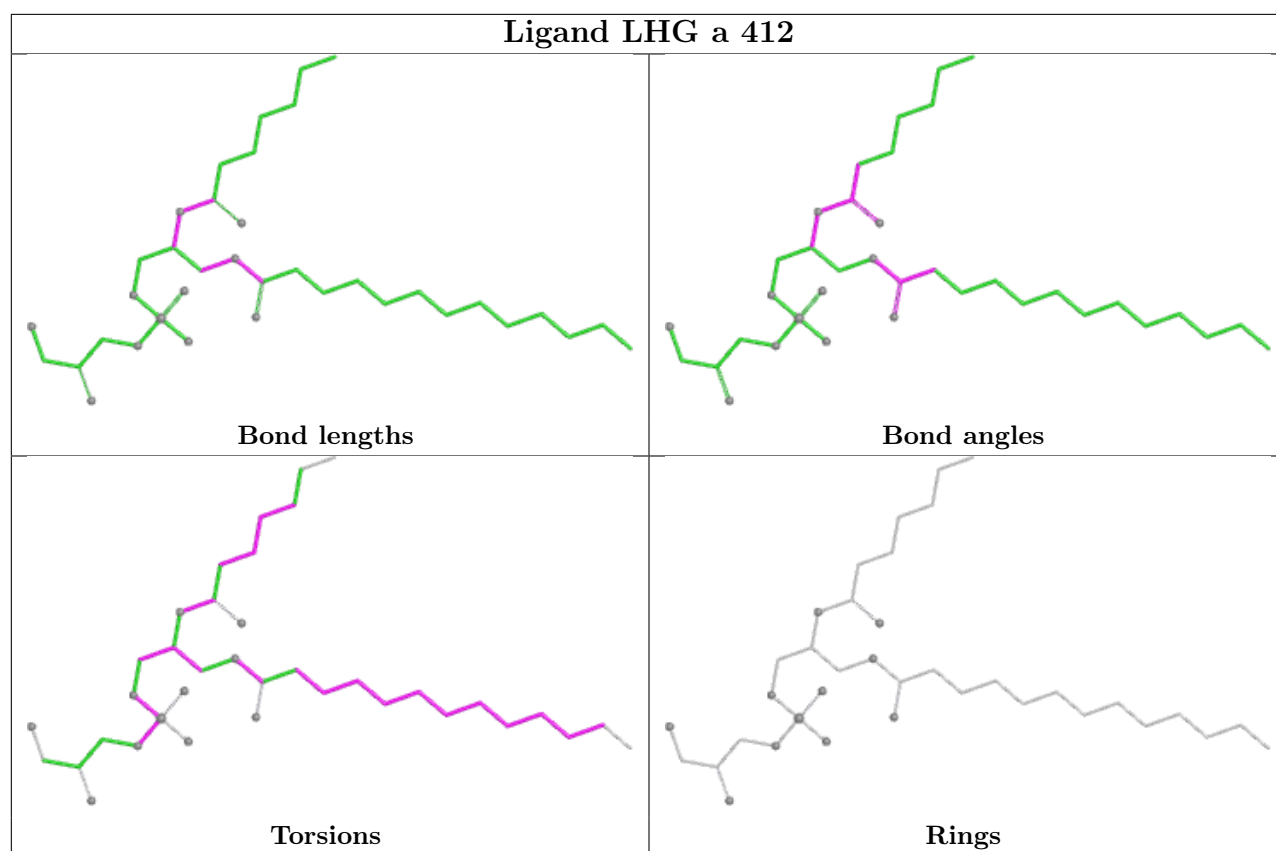
Ligand CLA h 101

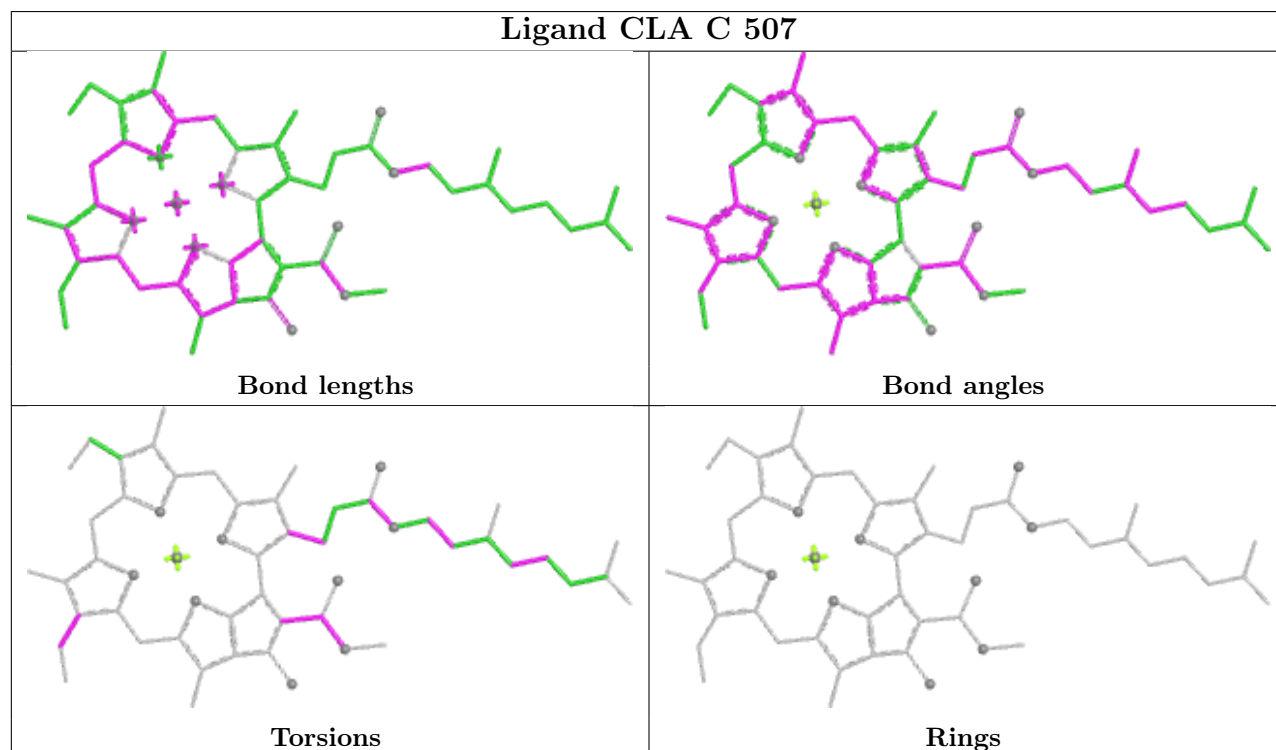
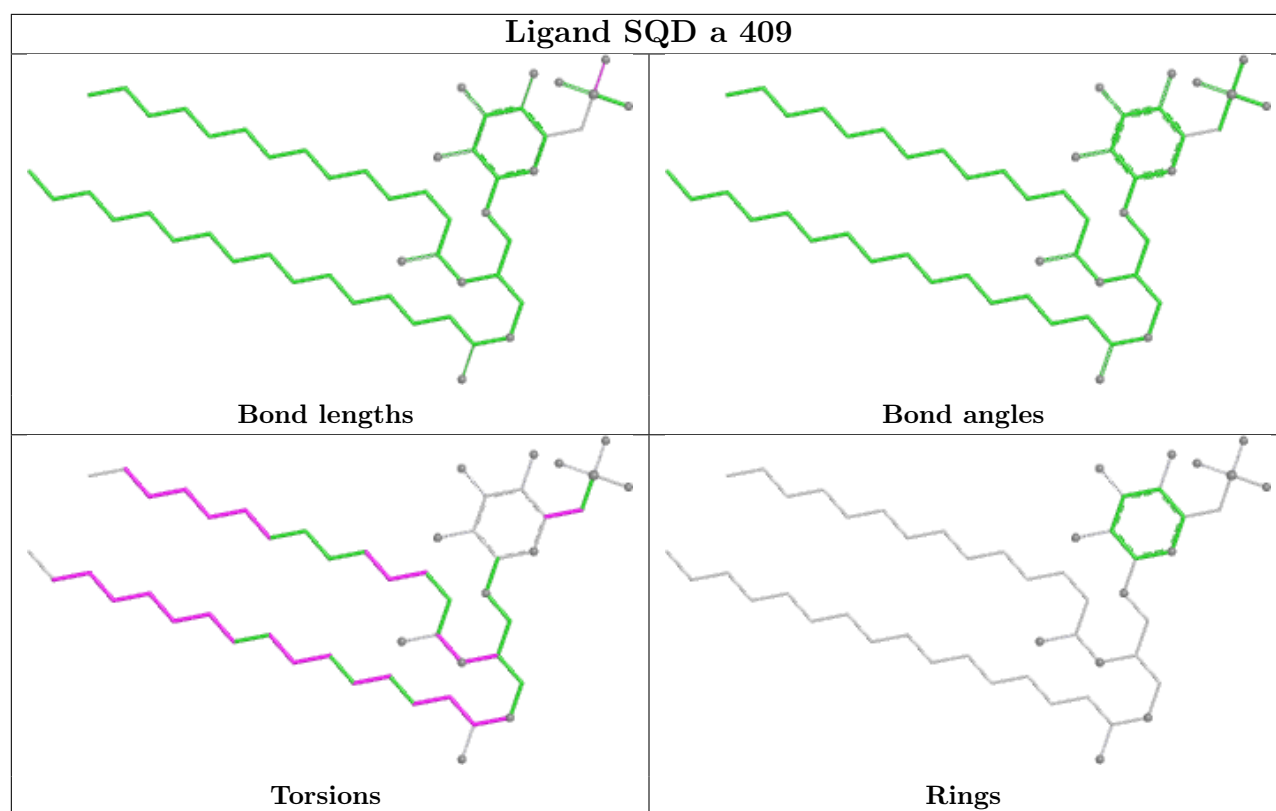


Ligand CLA c 502

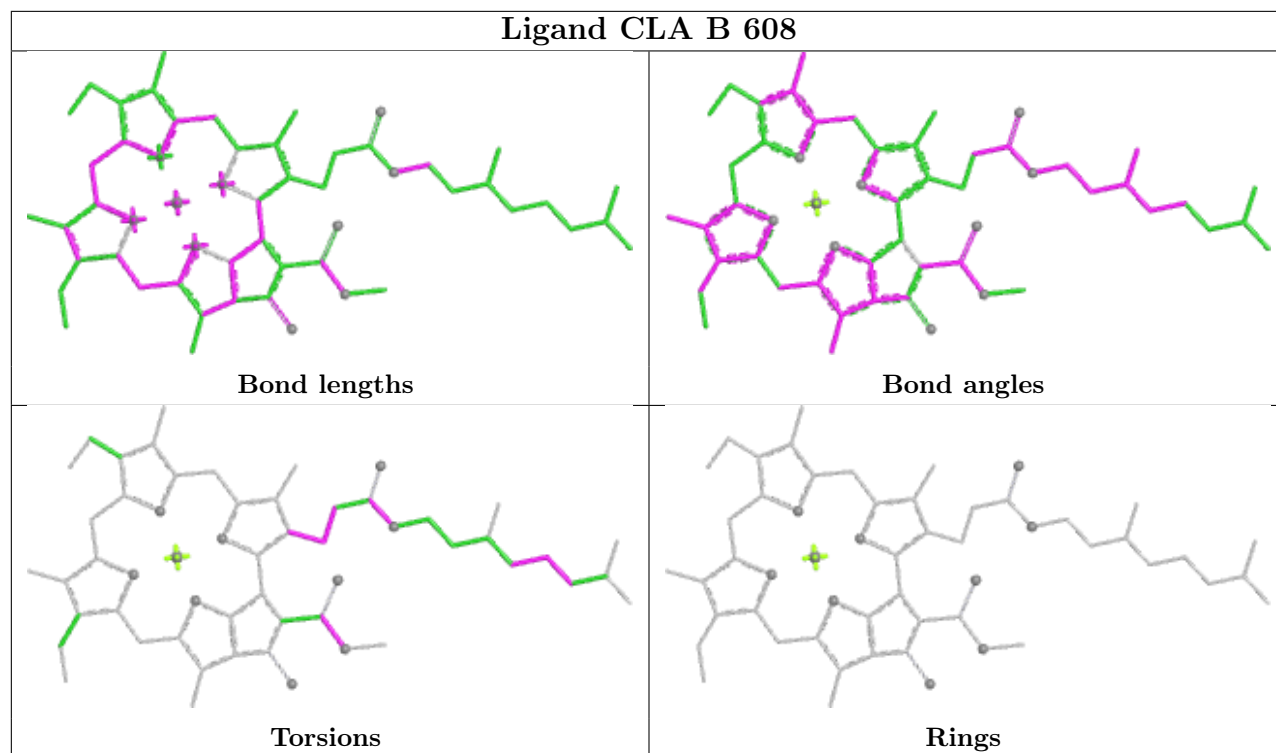




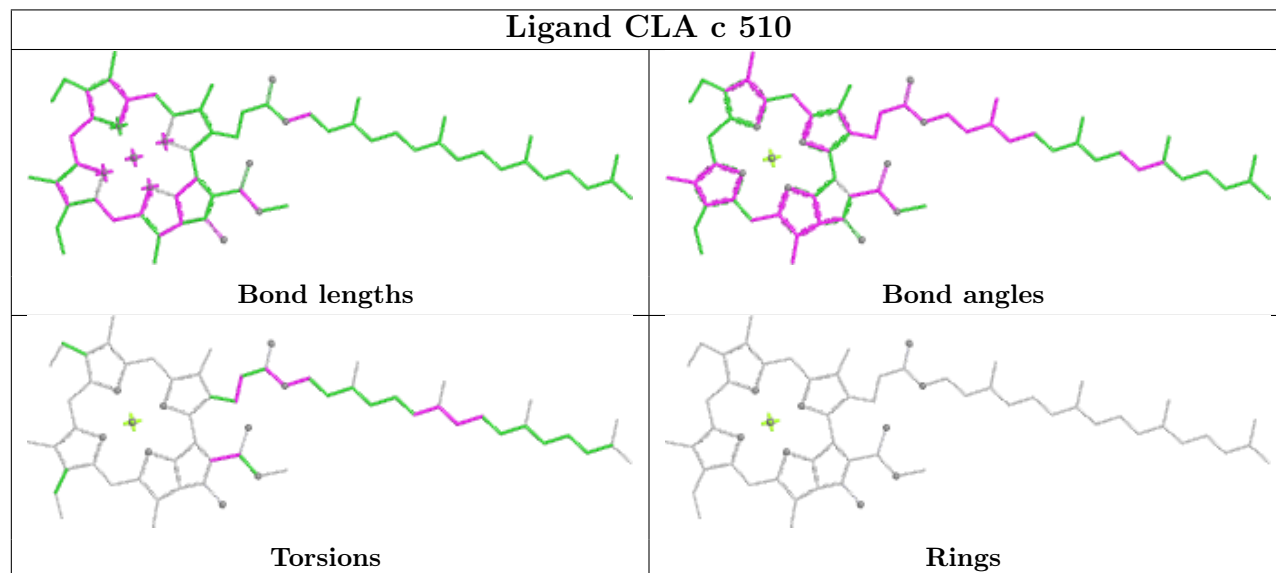


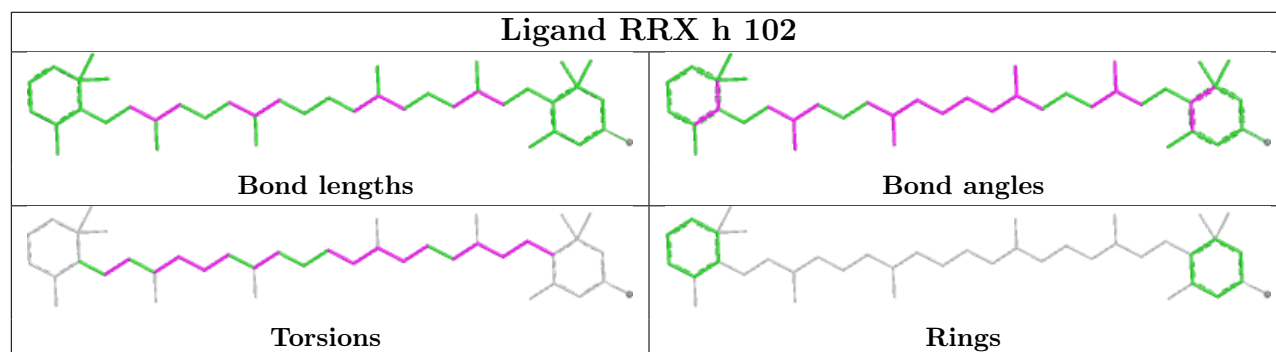
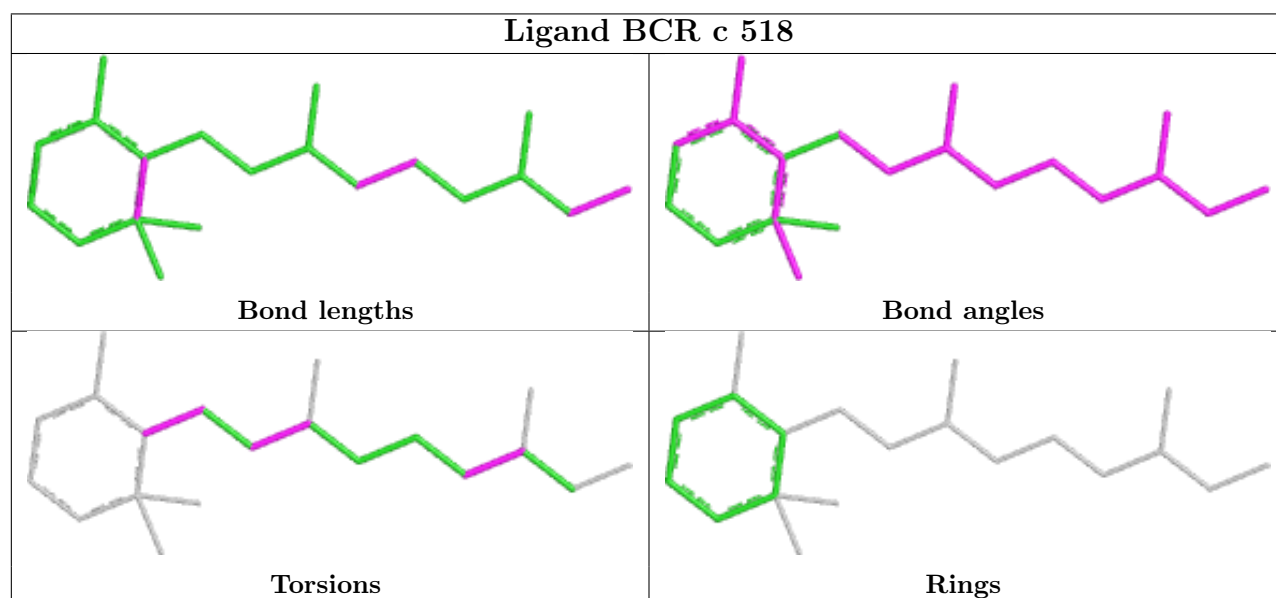
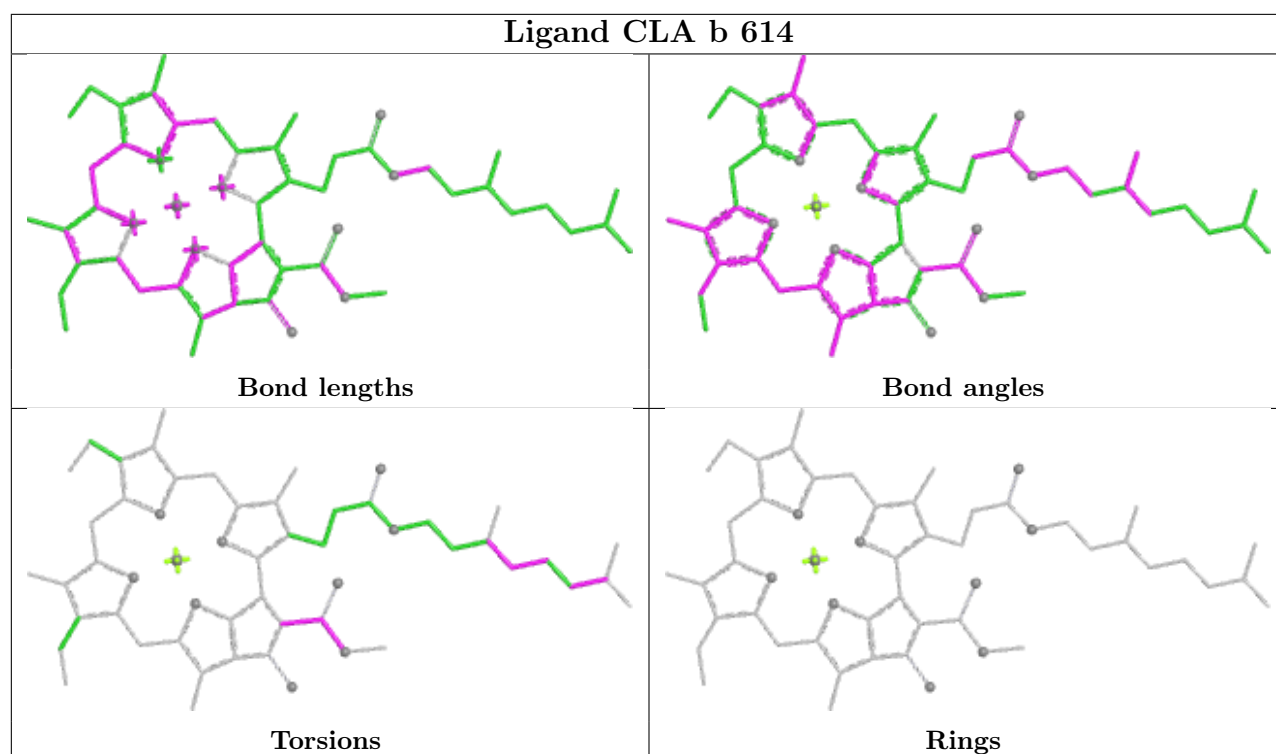


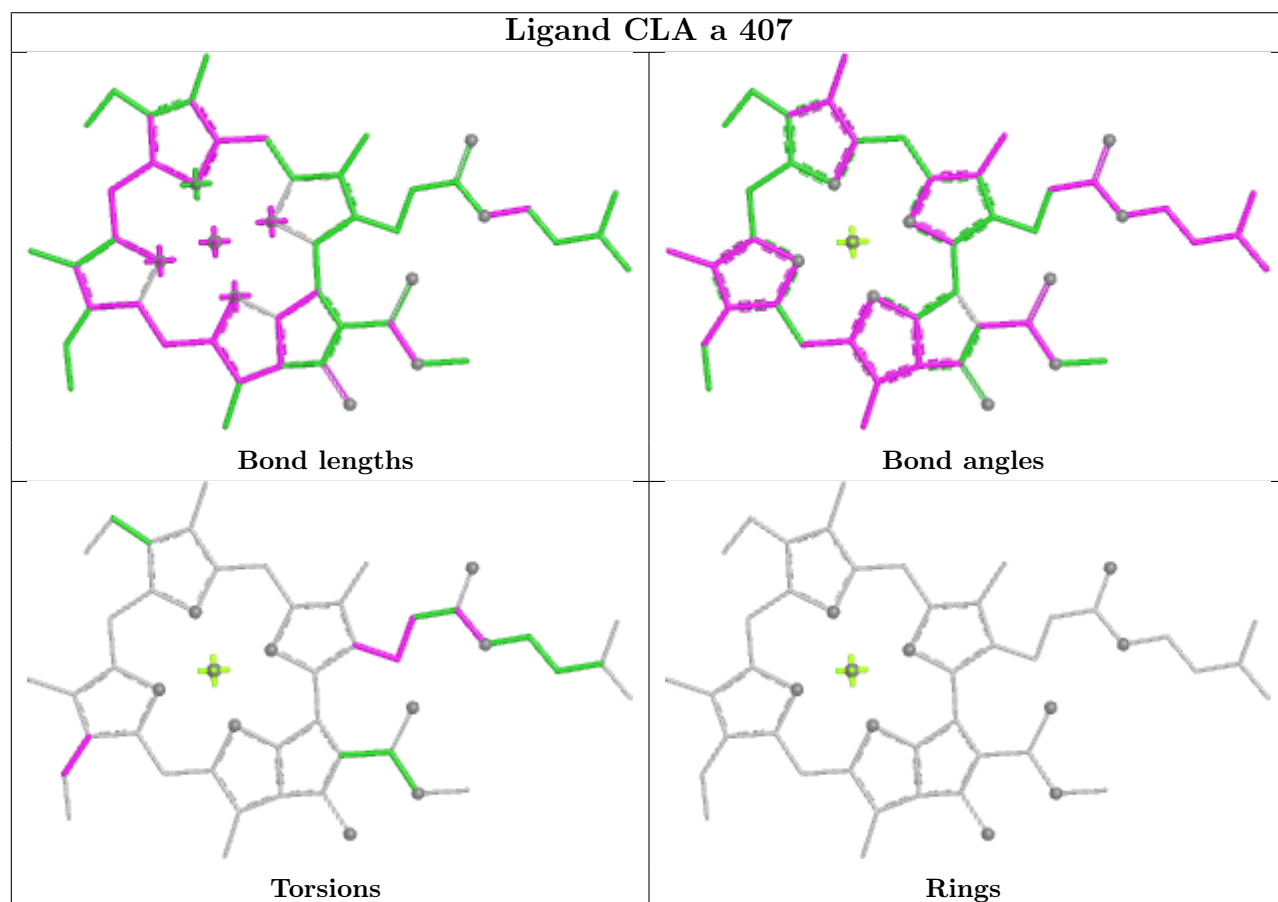
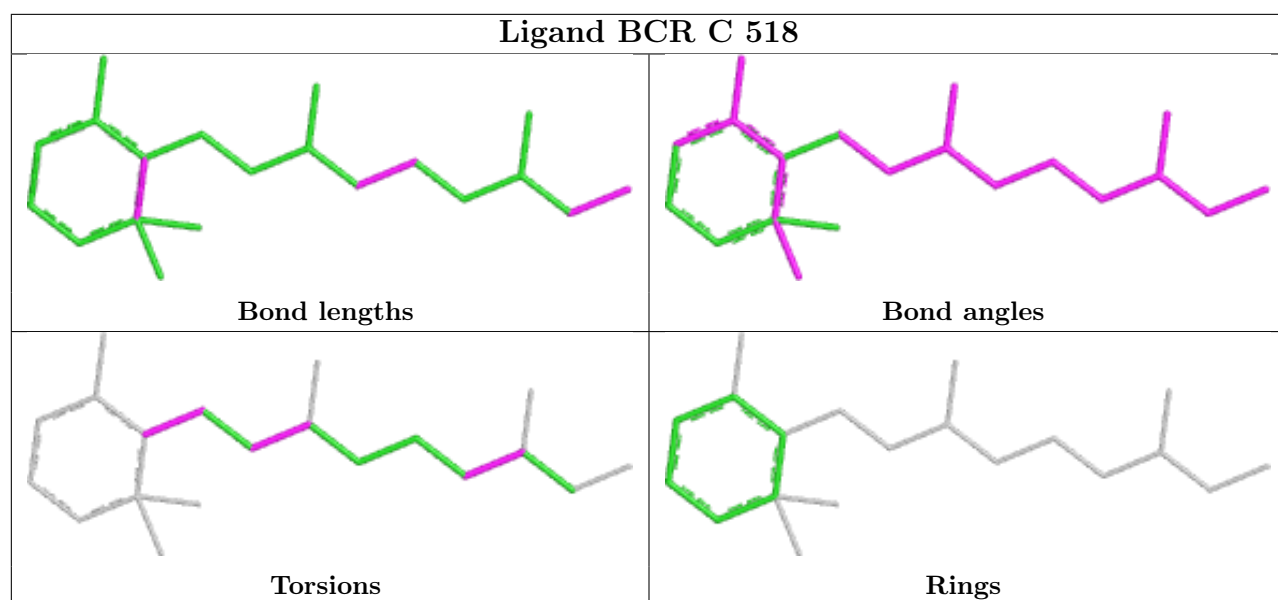
Ligand CLA B 608

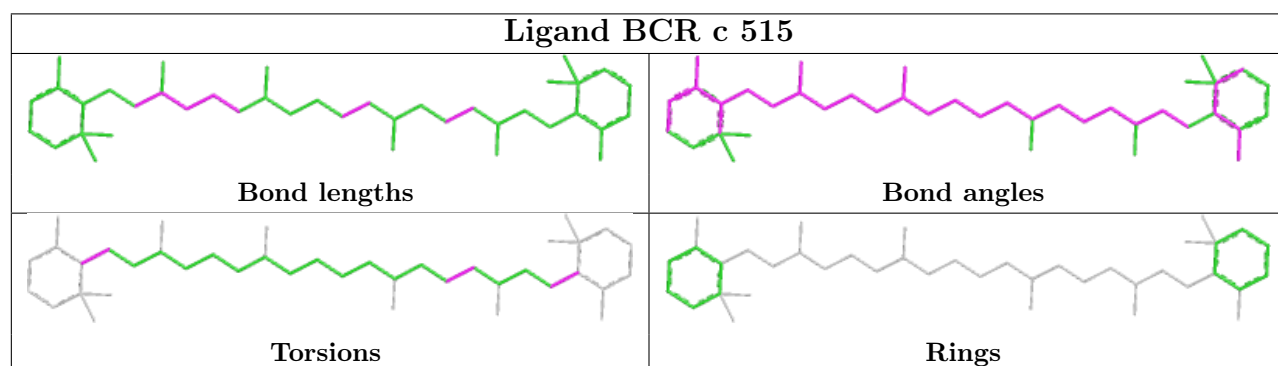
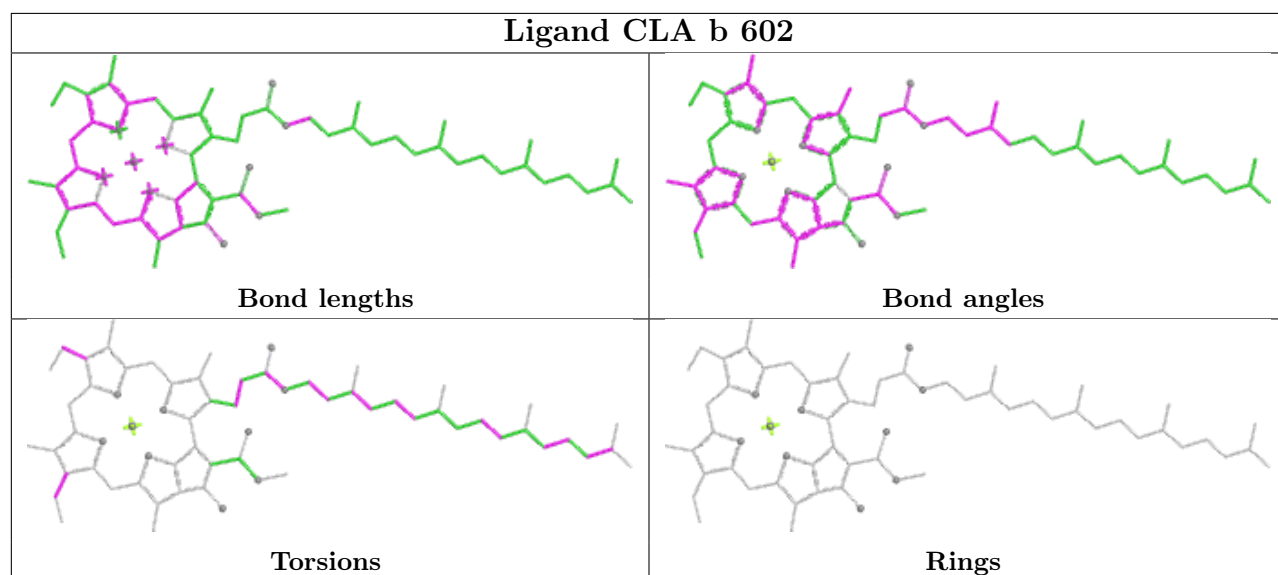
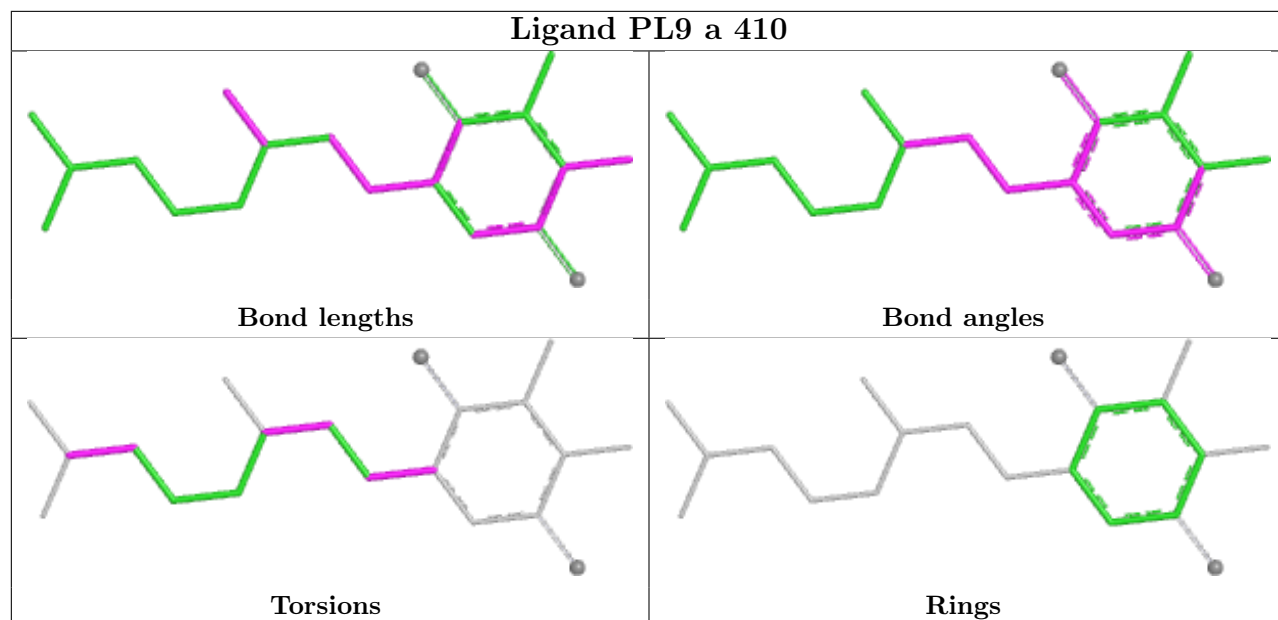


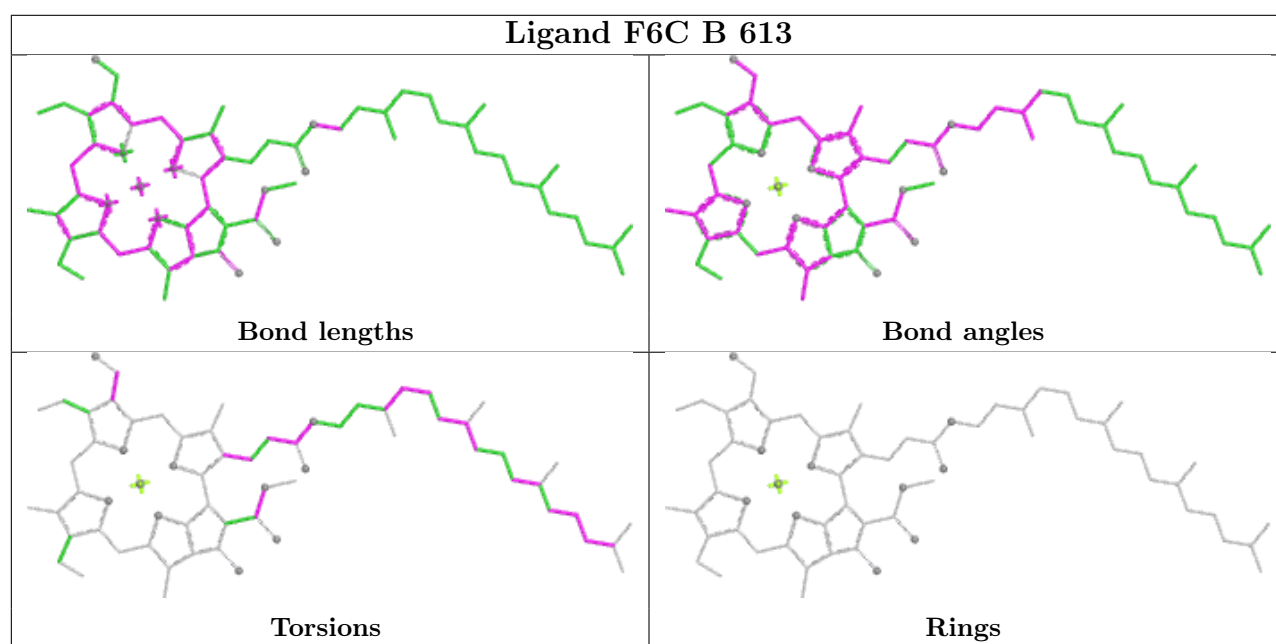
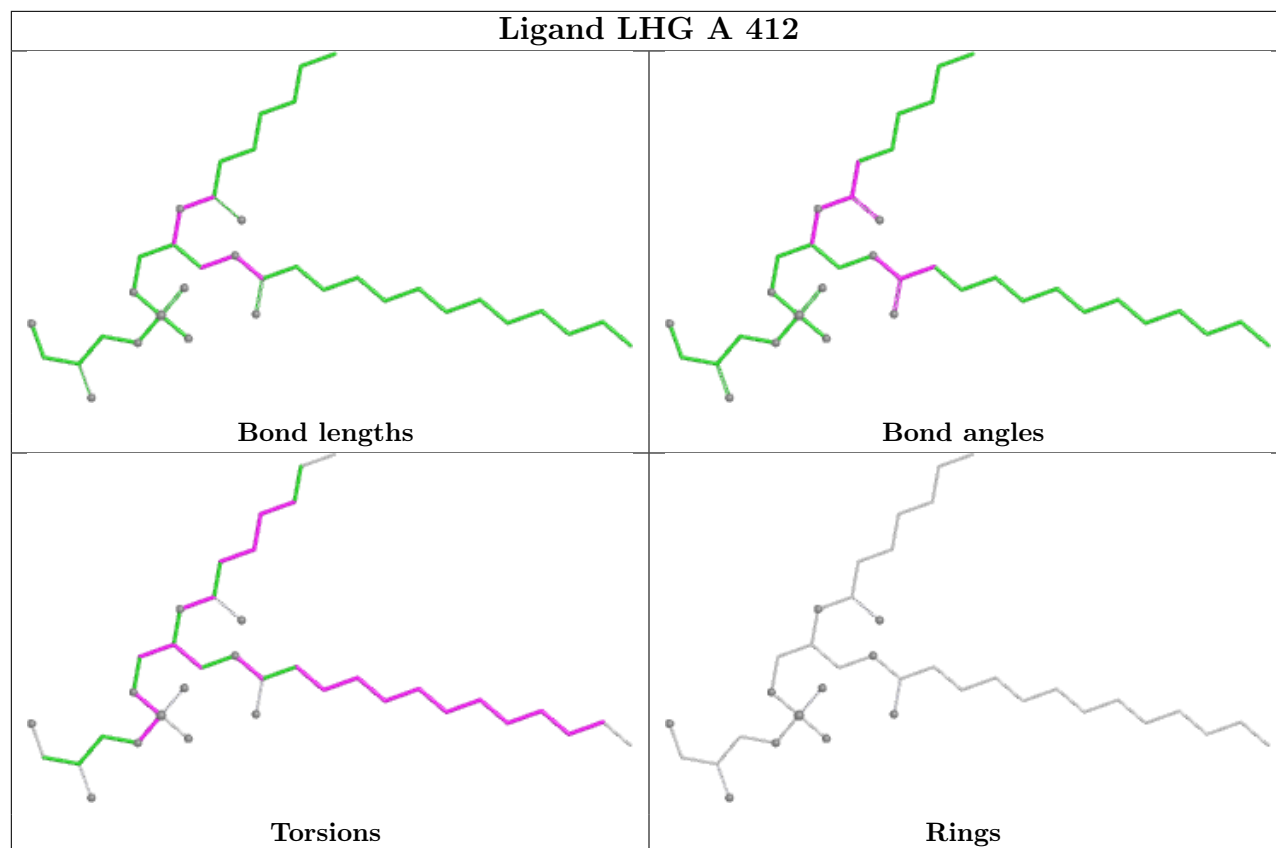
Ligand CLA c 510

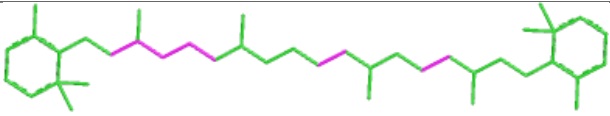
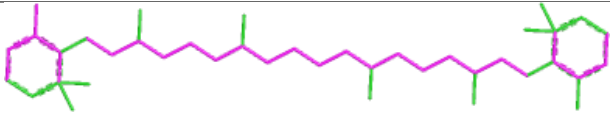
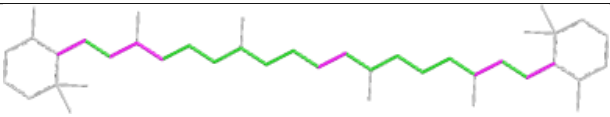
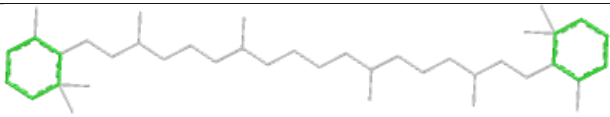
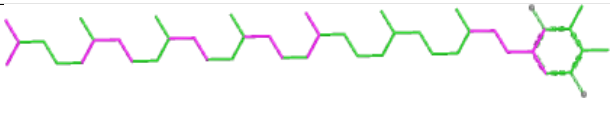
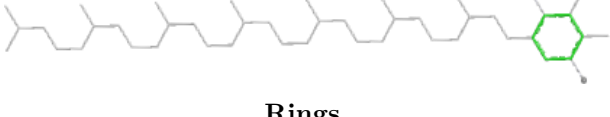
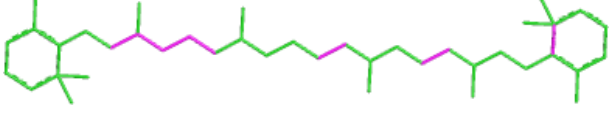
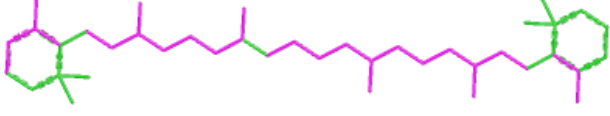
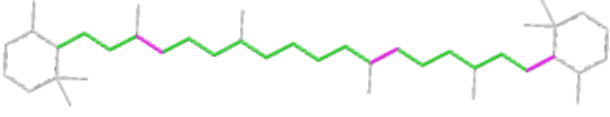
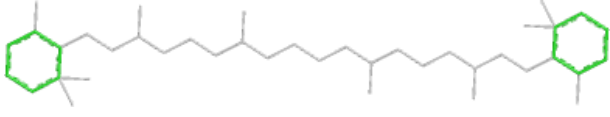




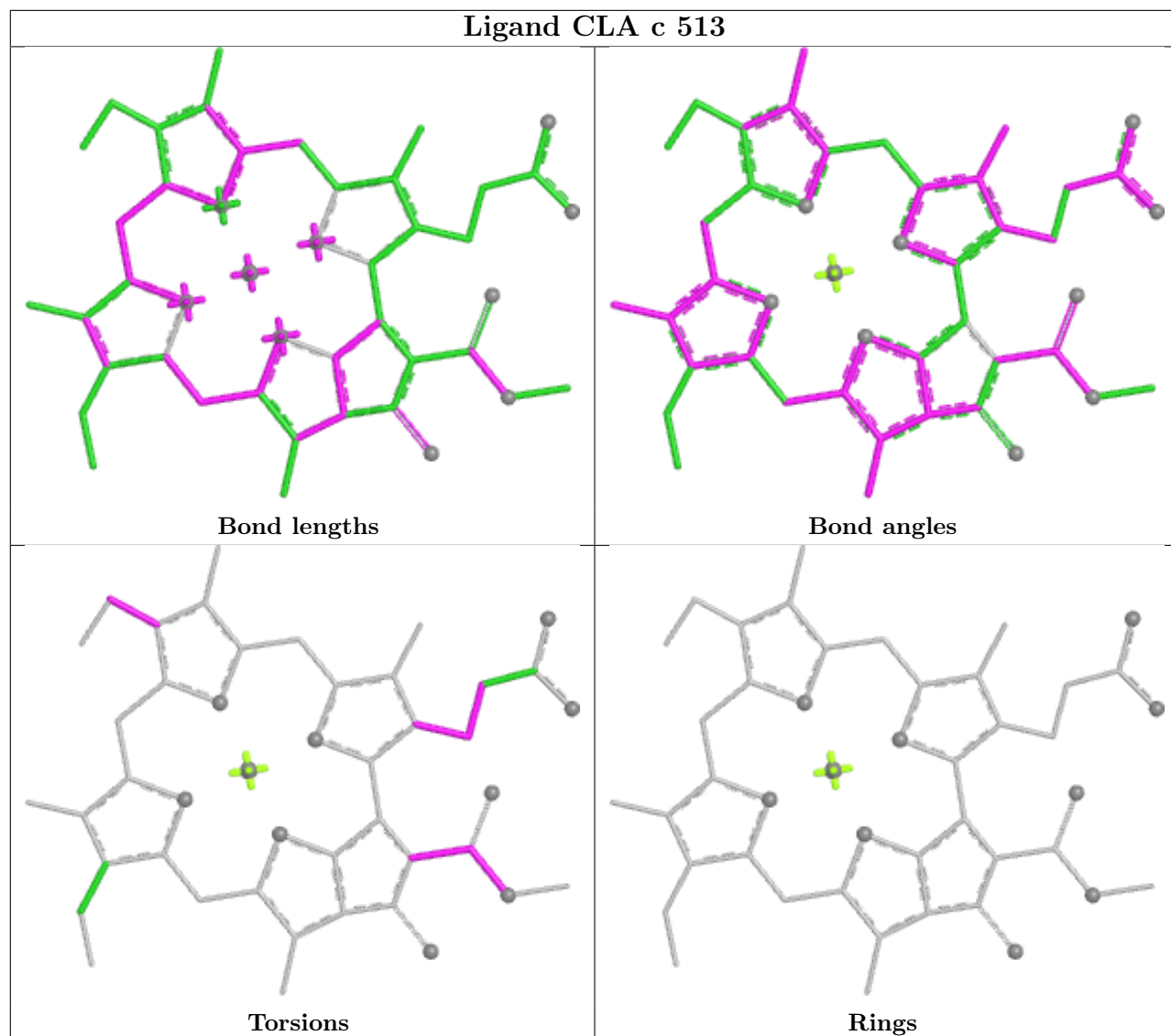


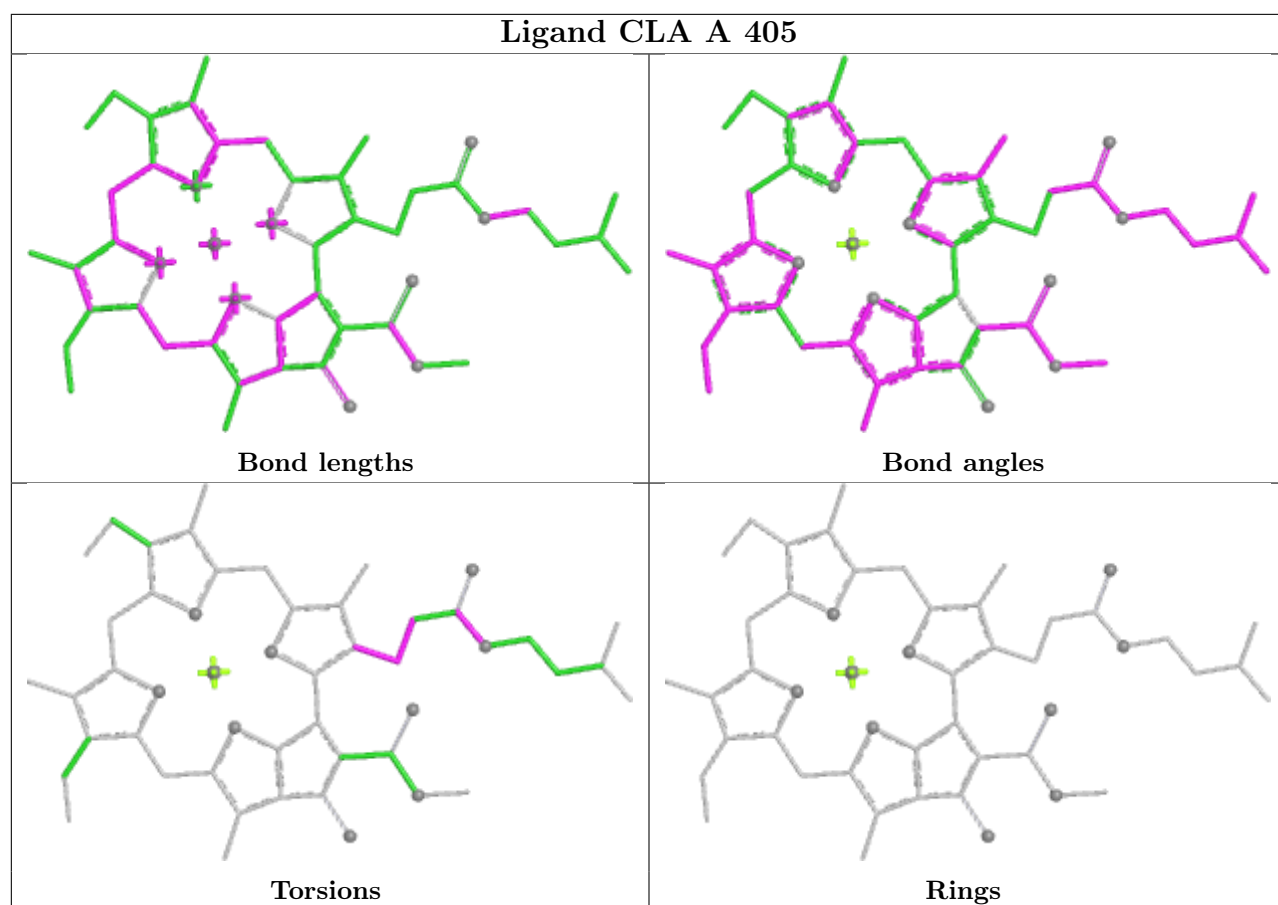


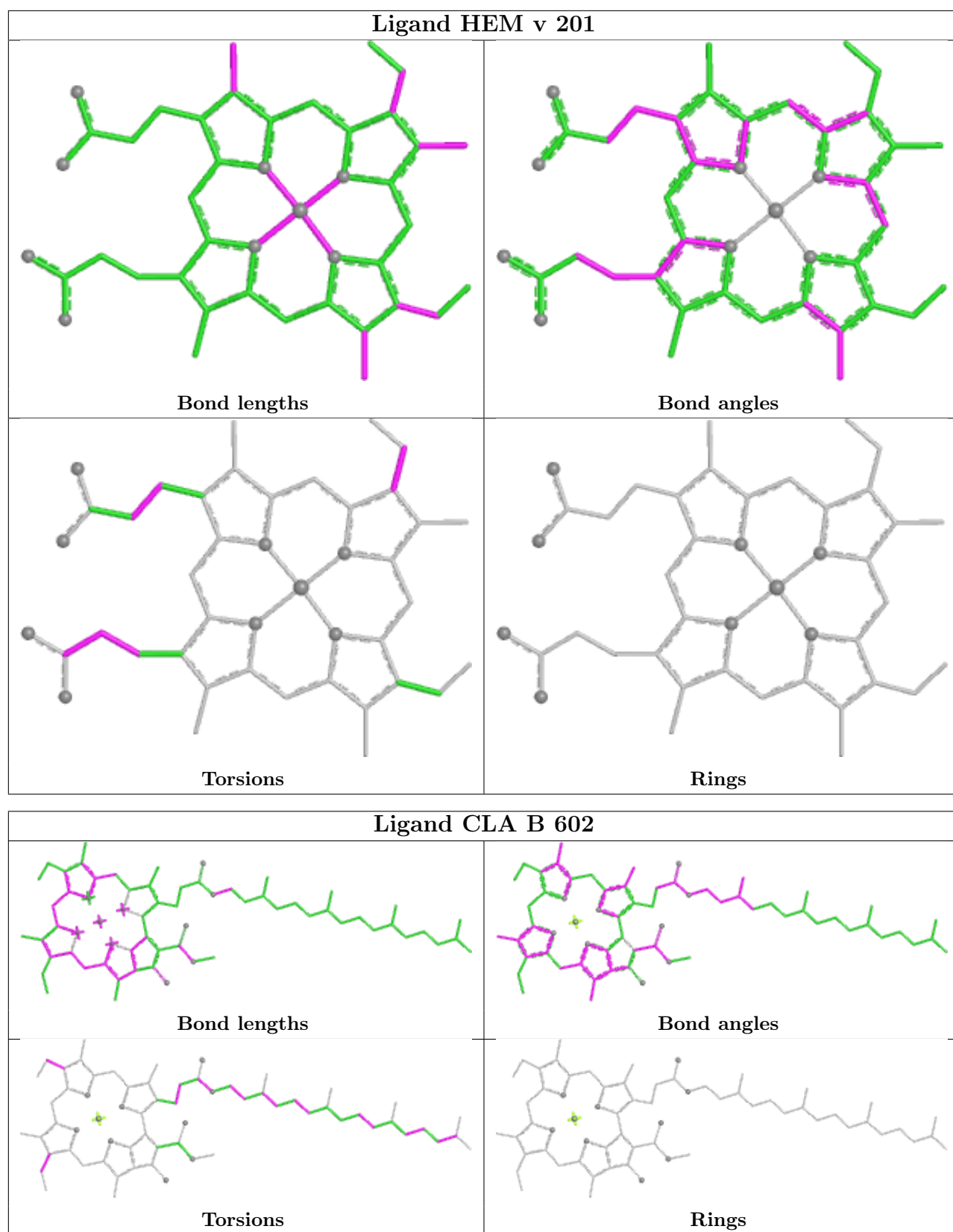


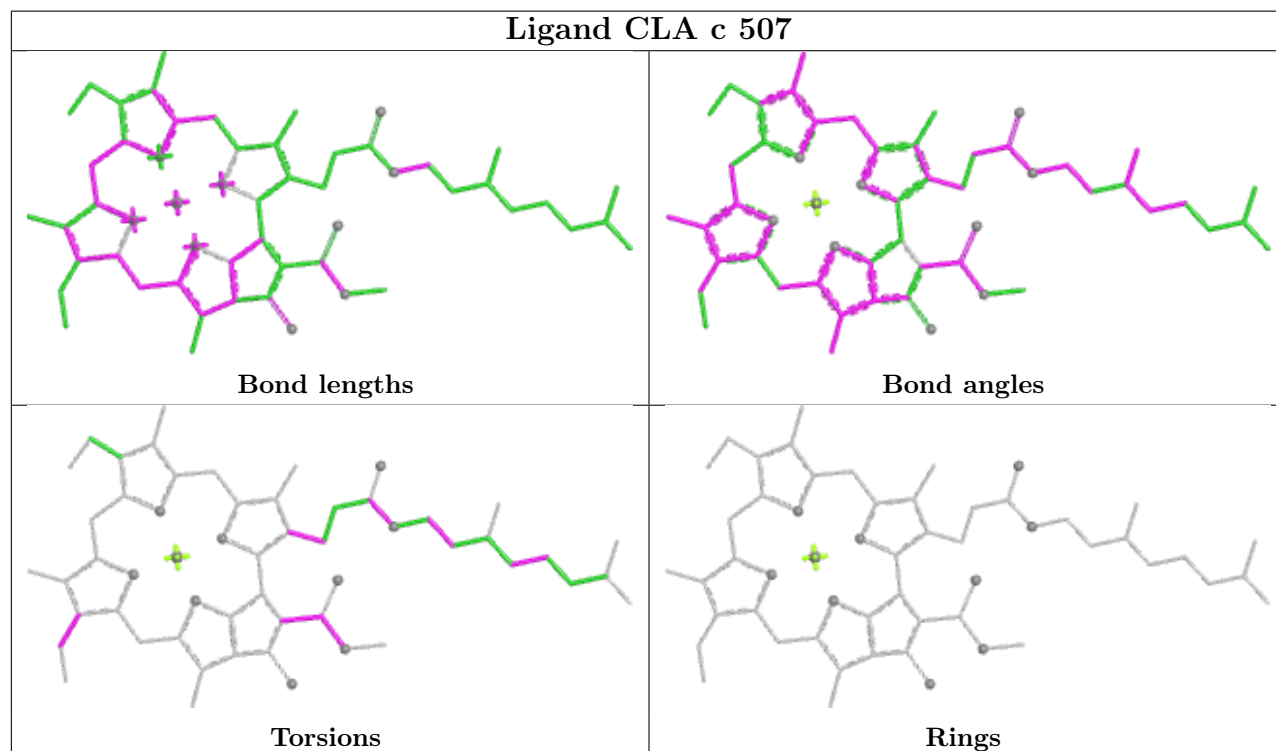
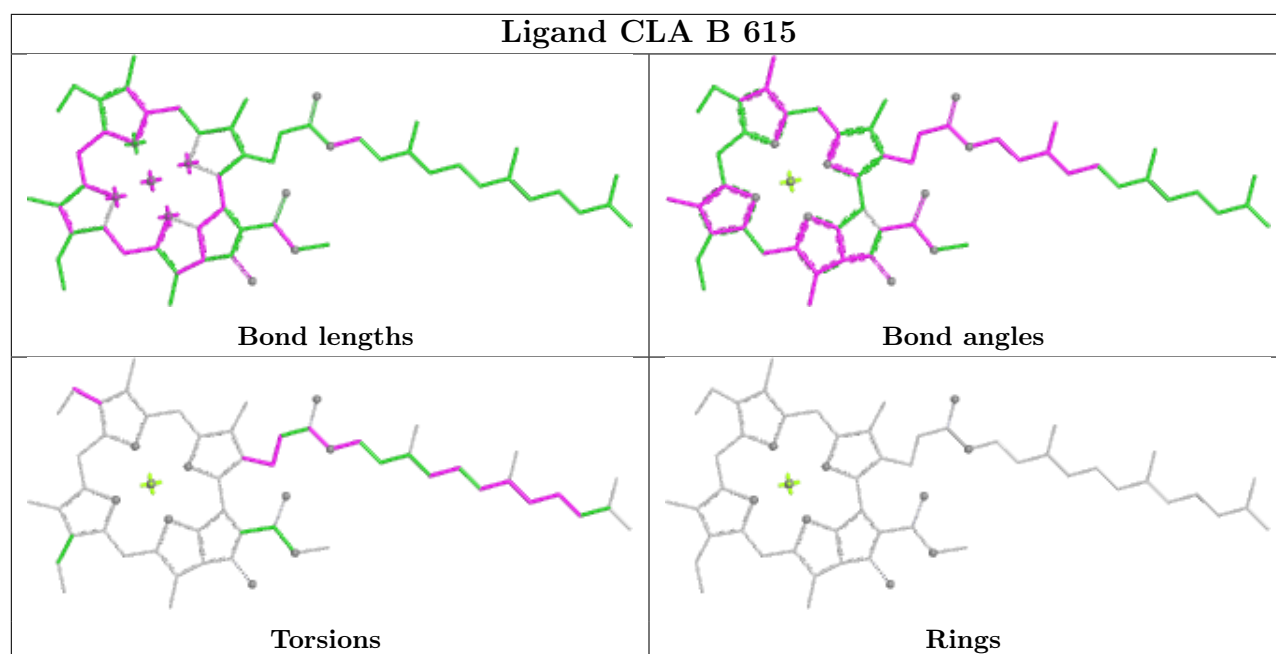
Ligand BCR b 618	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand PL9 D 406	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand BCR a 408	
 Bond lengths	 Bond angles
 Torsions	 Rings

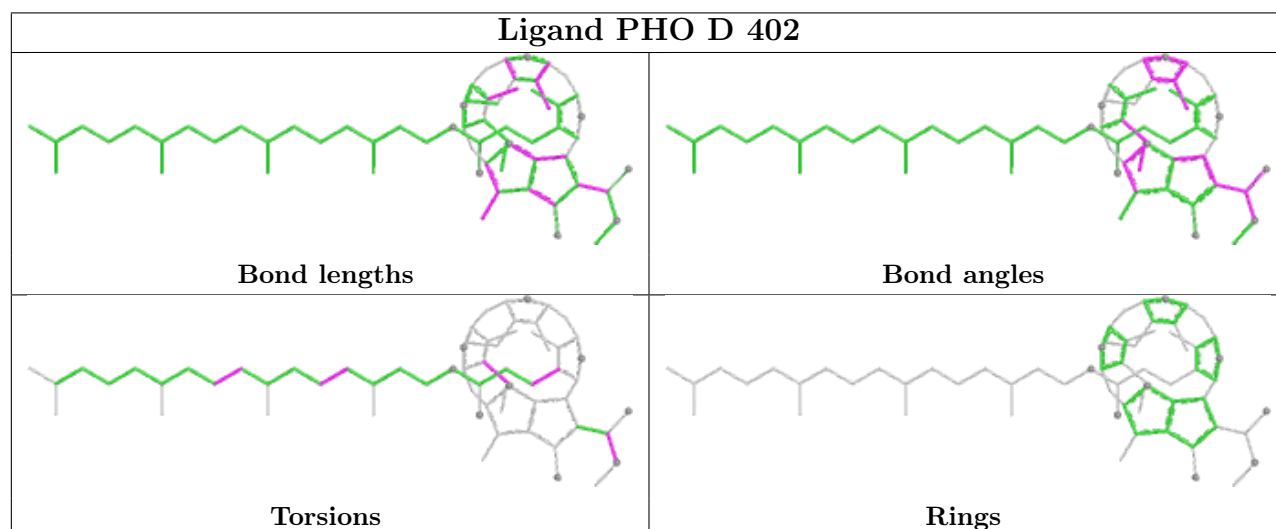
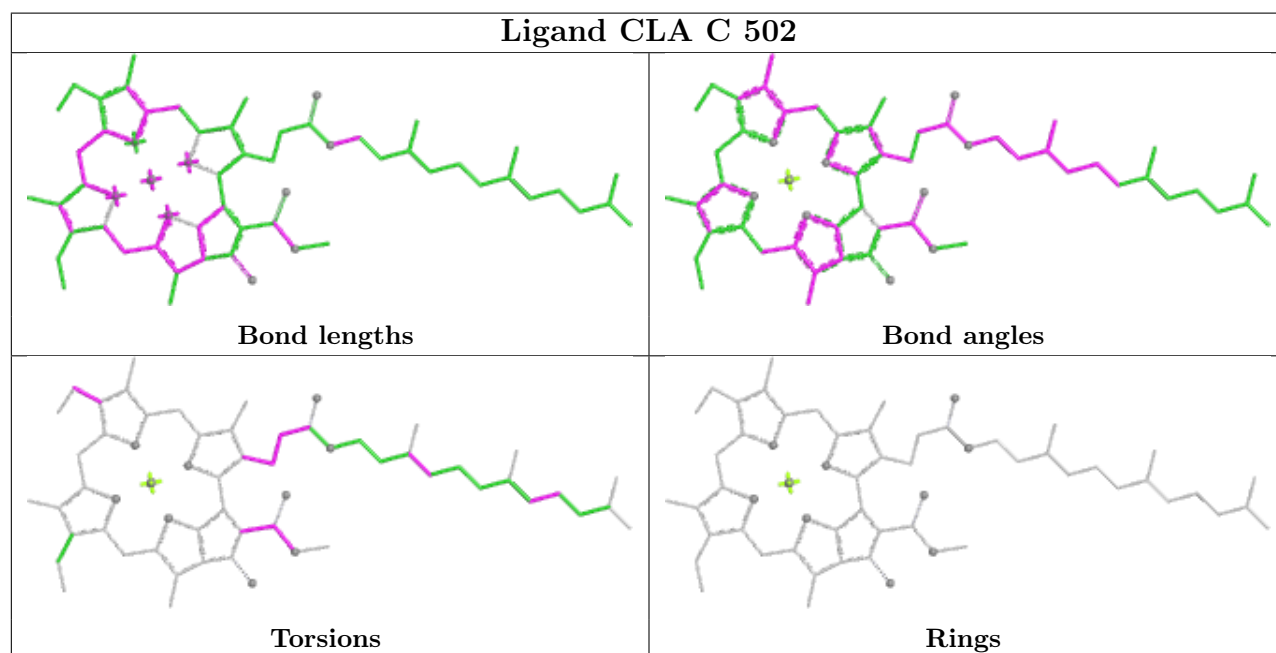
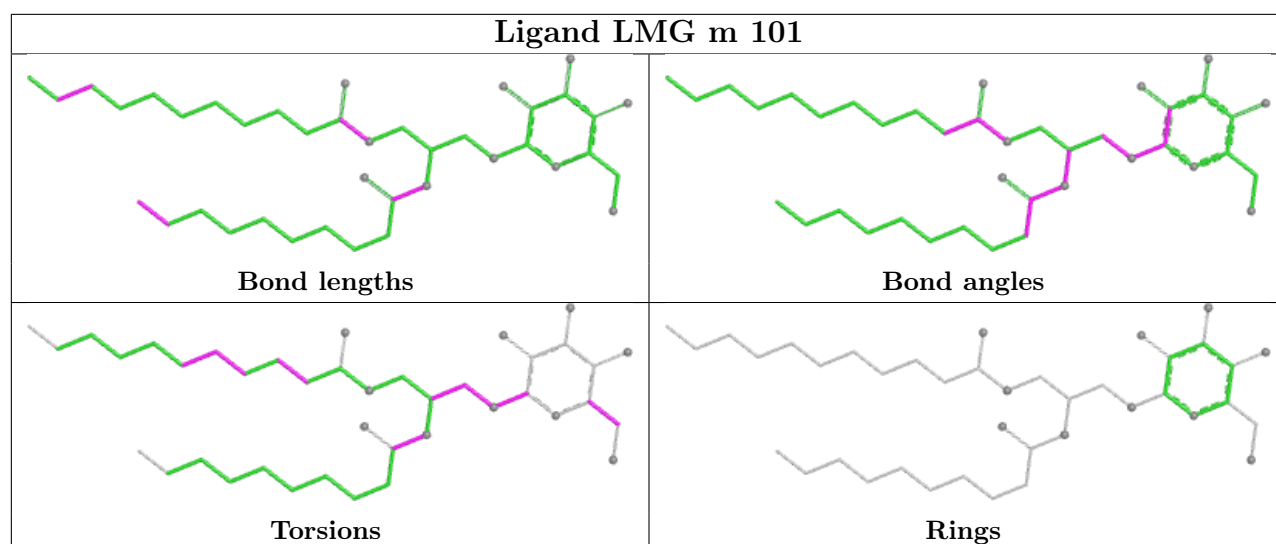
Ligand CLA c 513

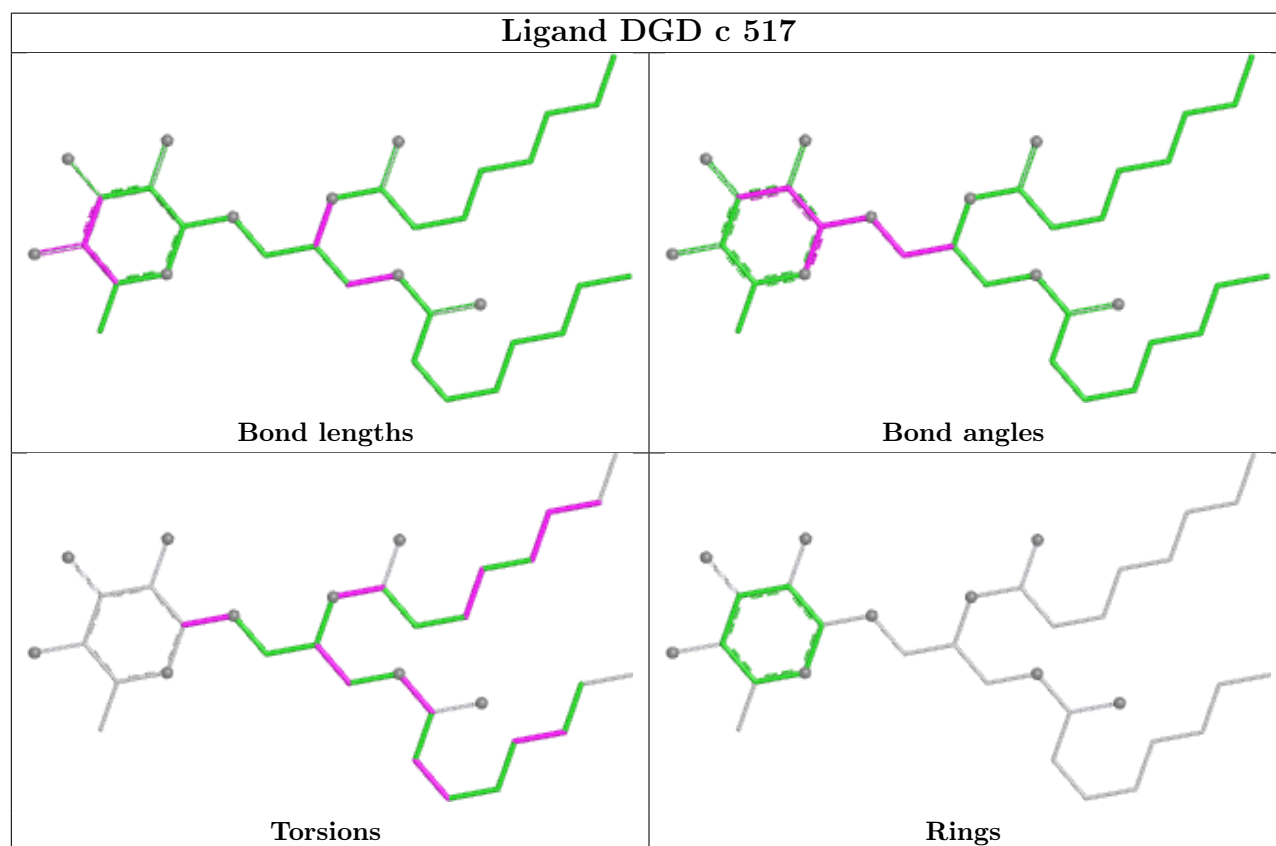
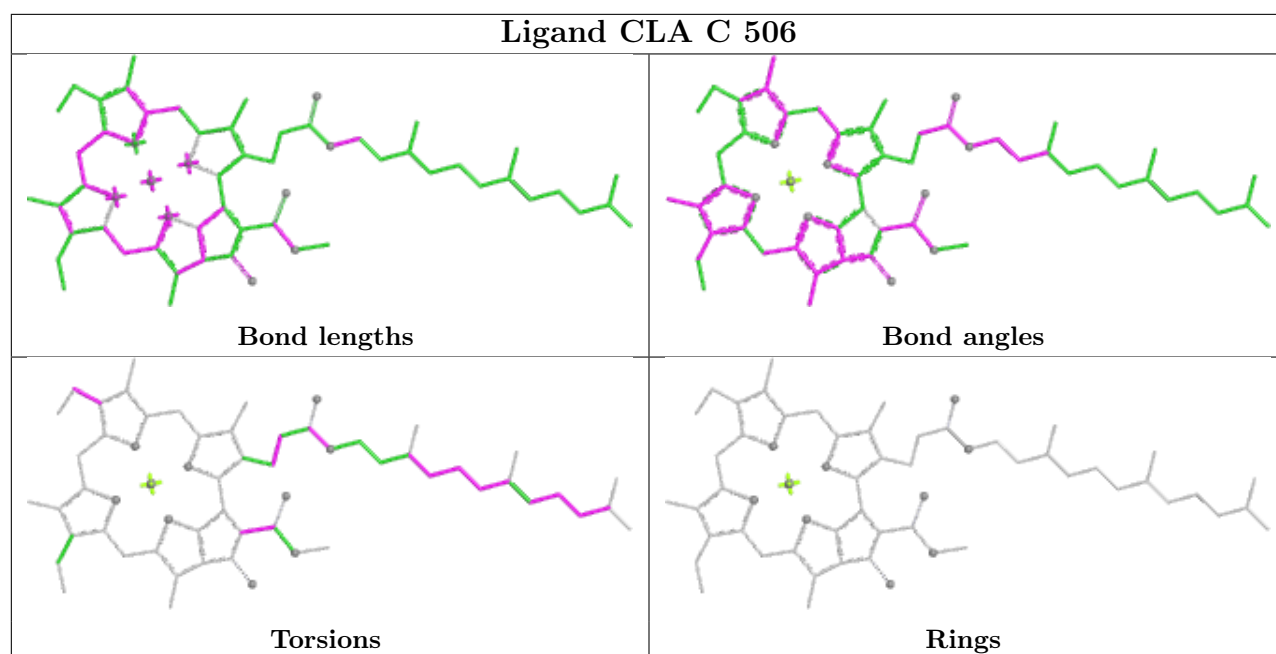


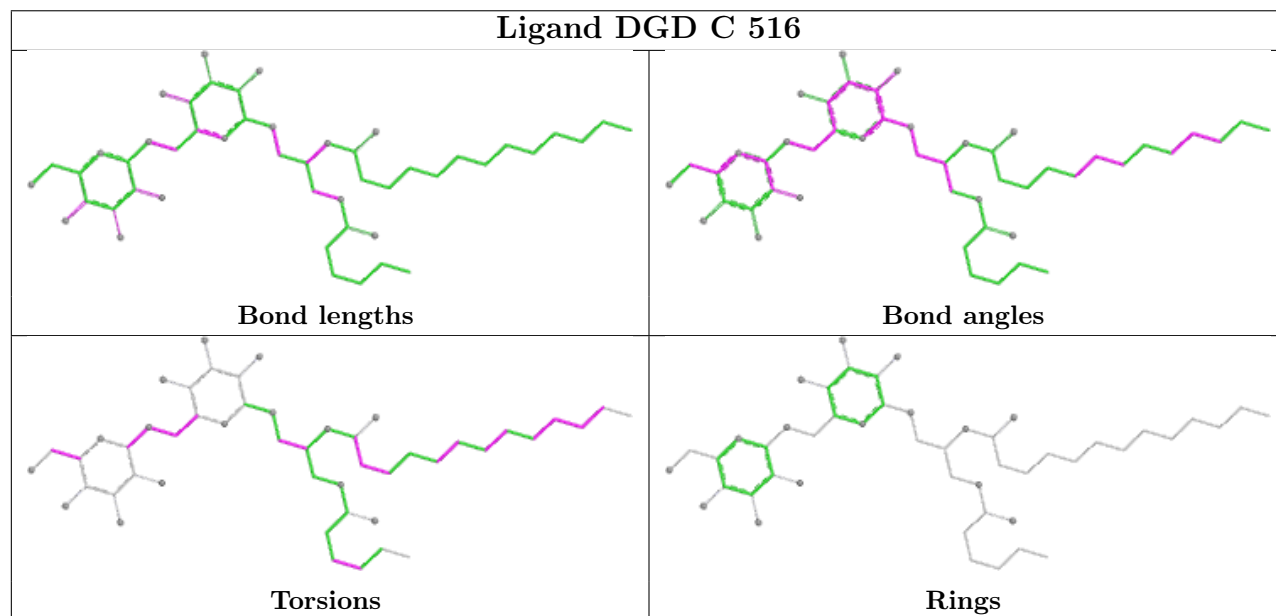
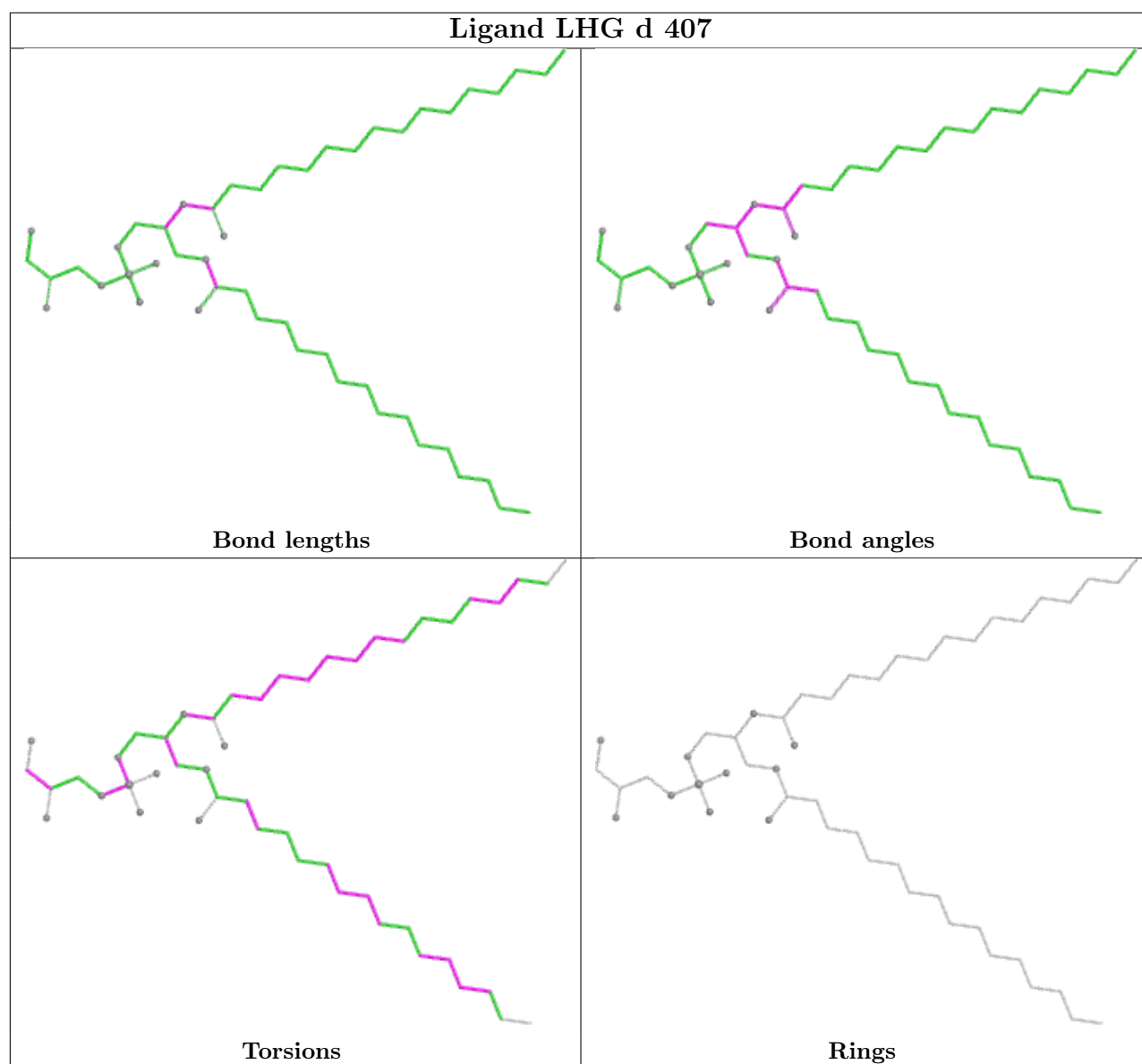


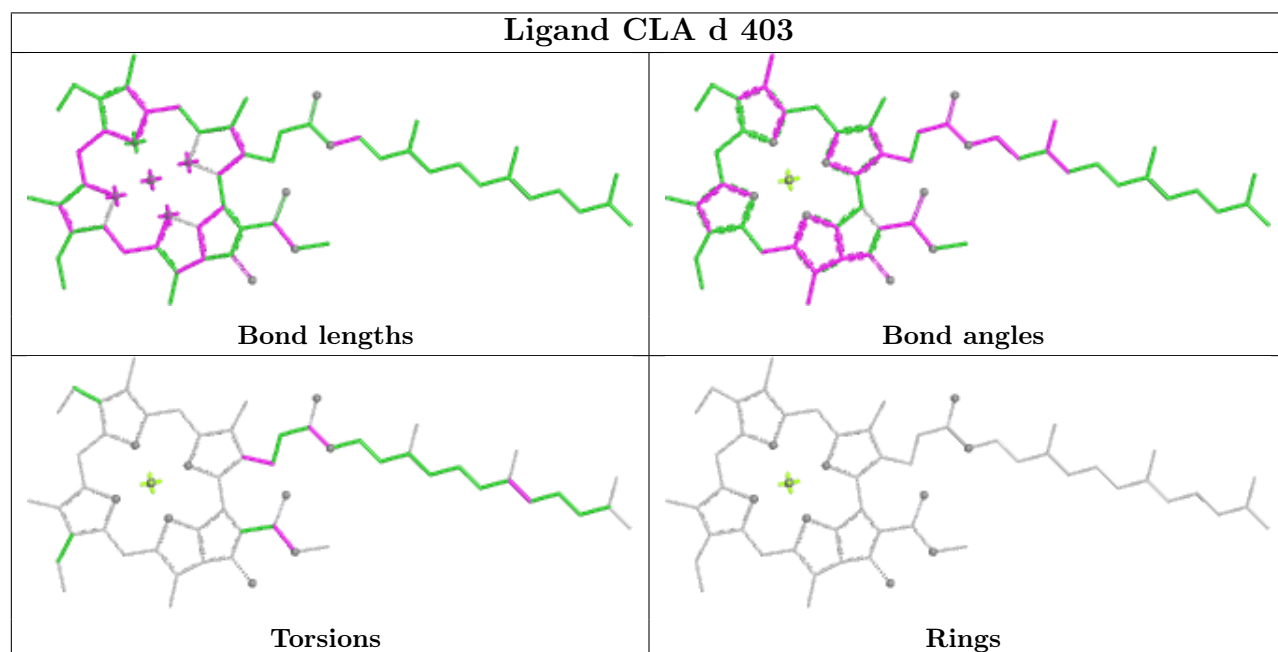
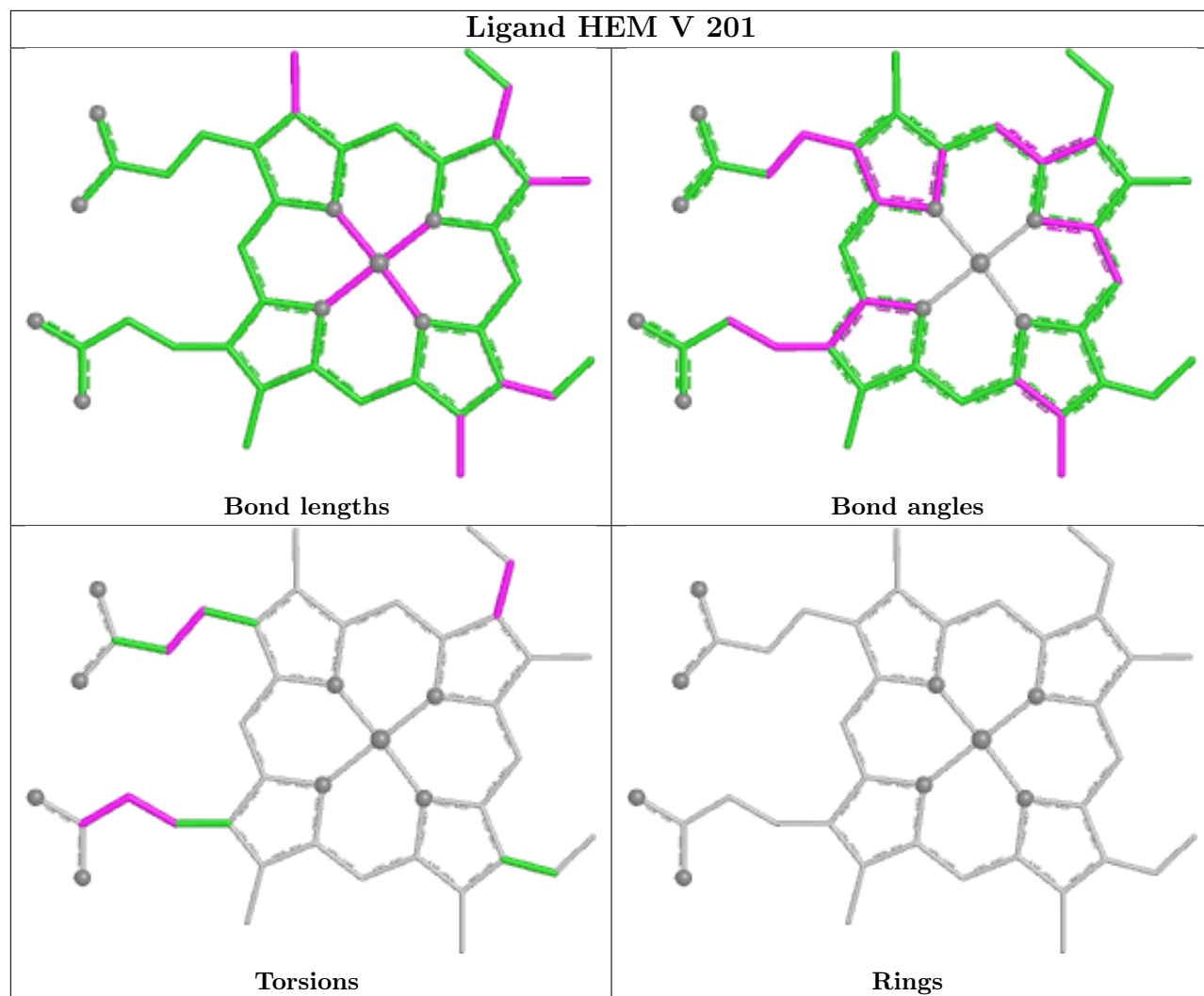




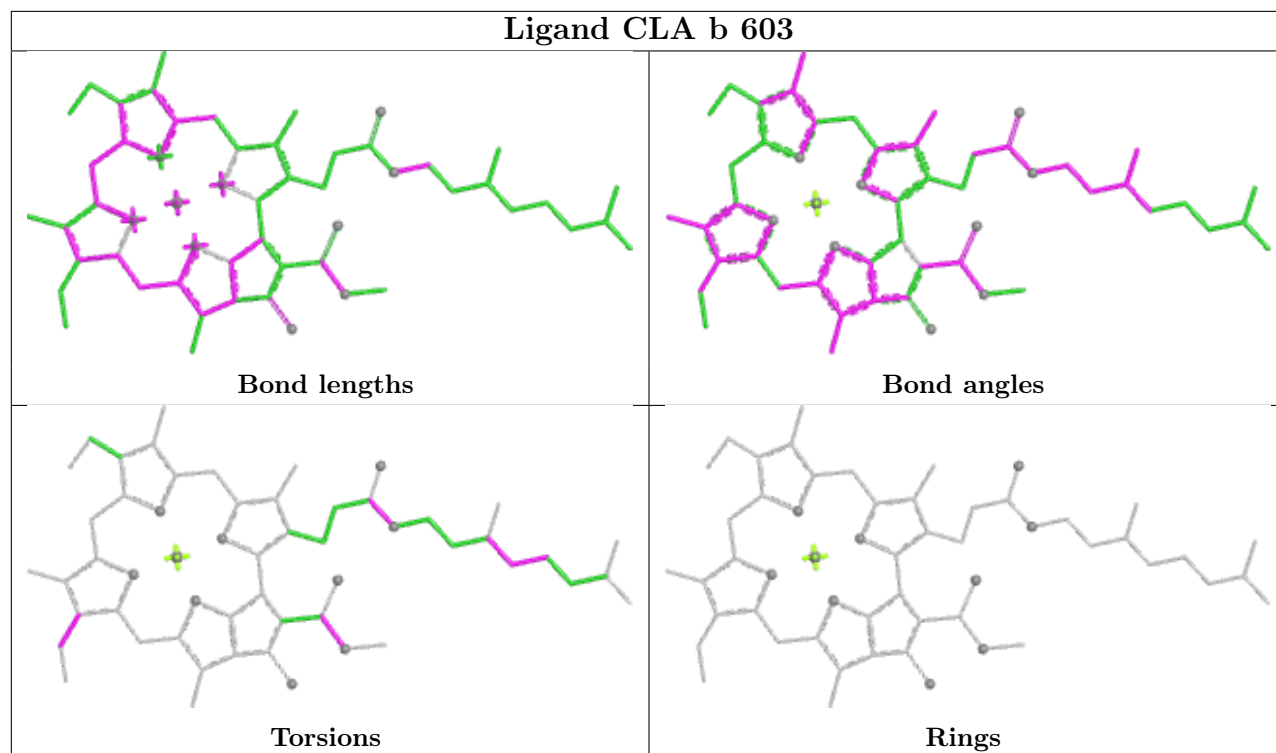




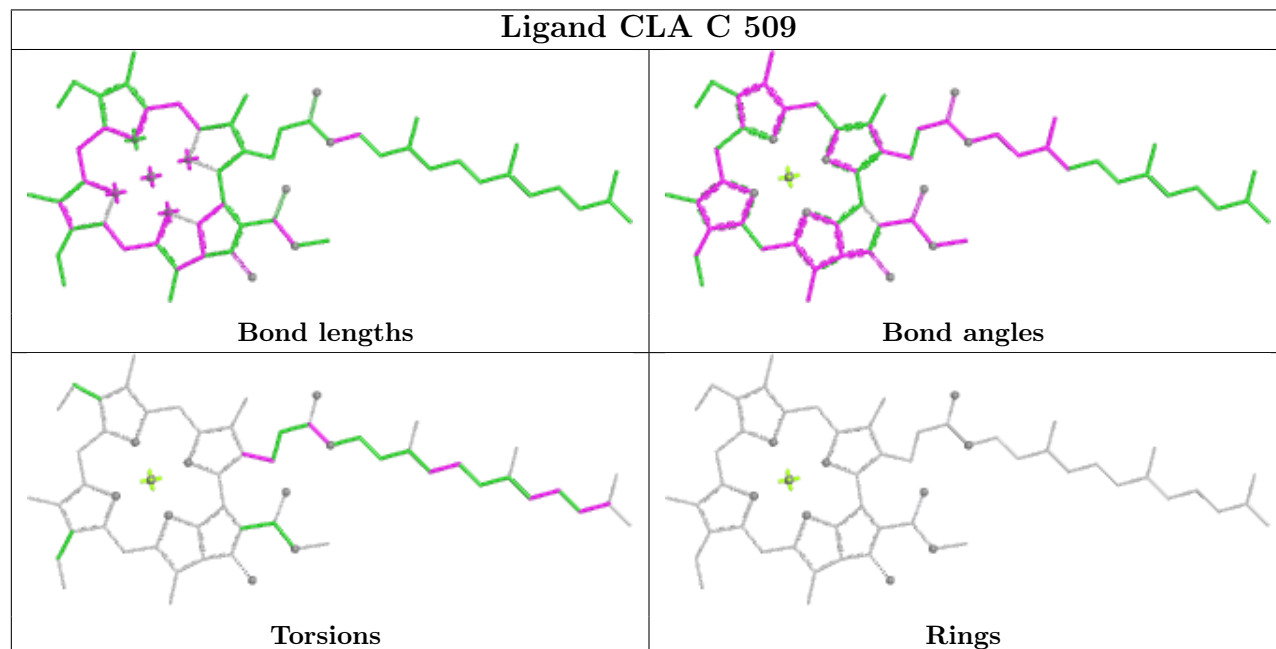




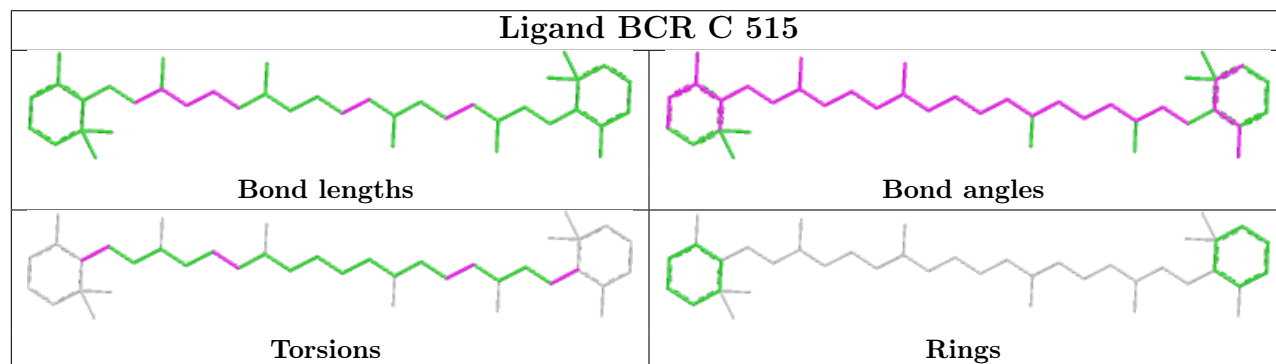
Ligand CLA b 603

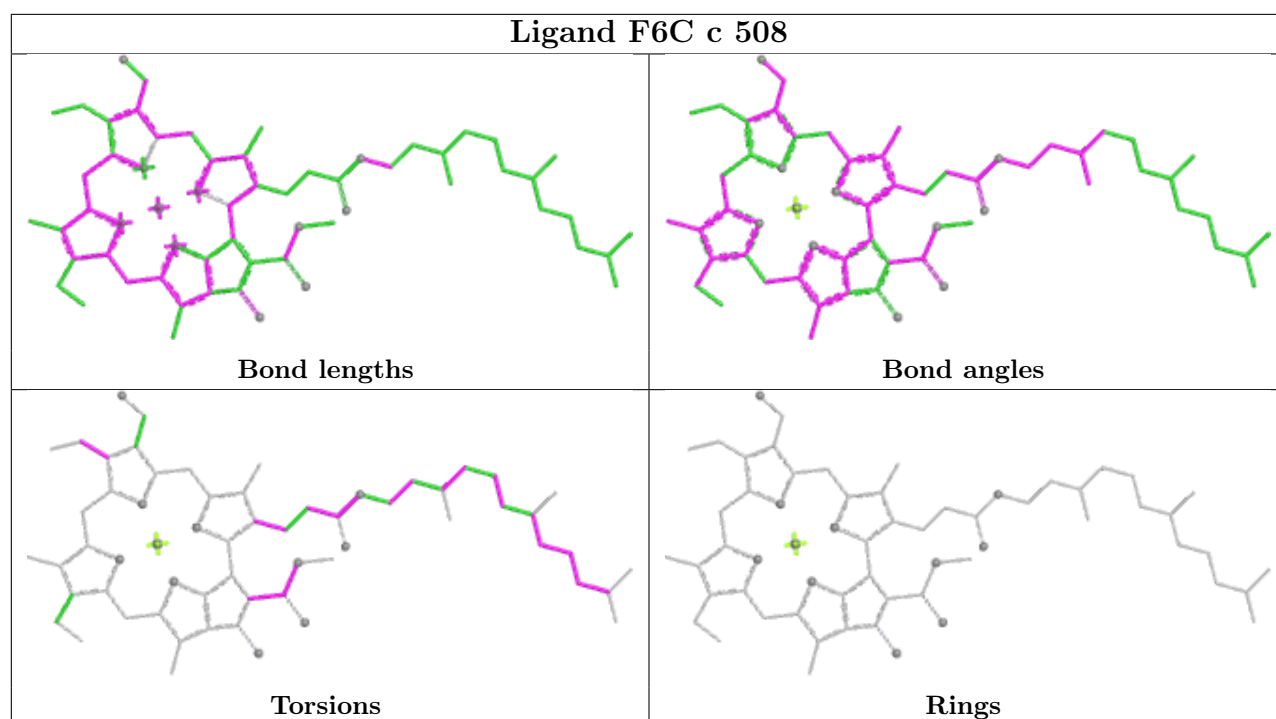


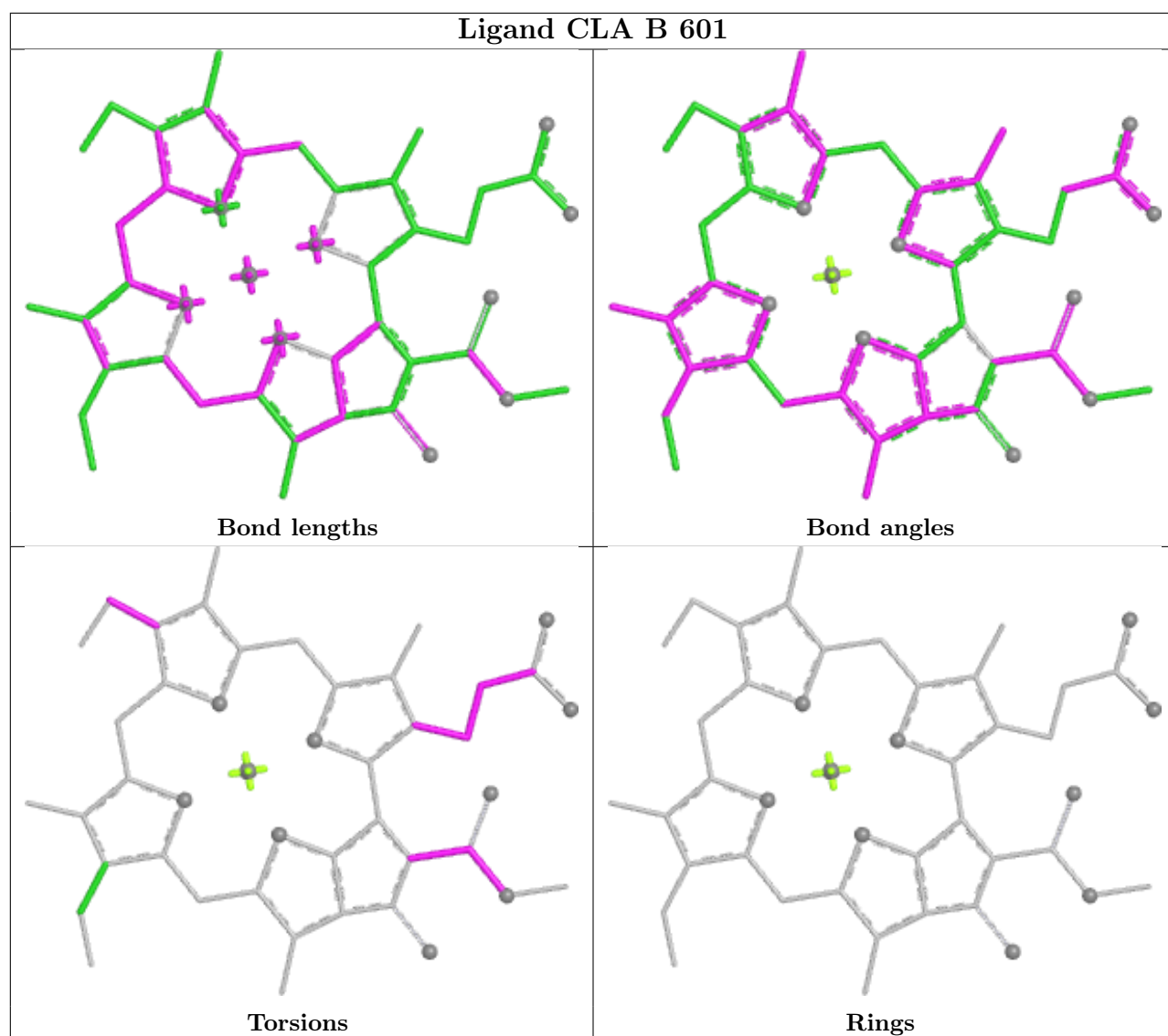
Ligand CLA C 509

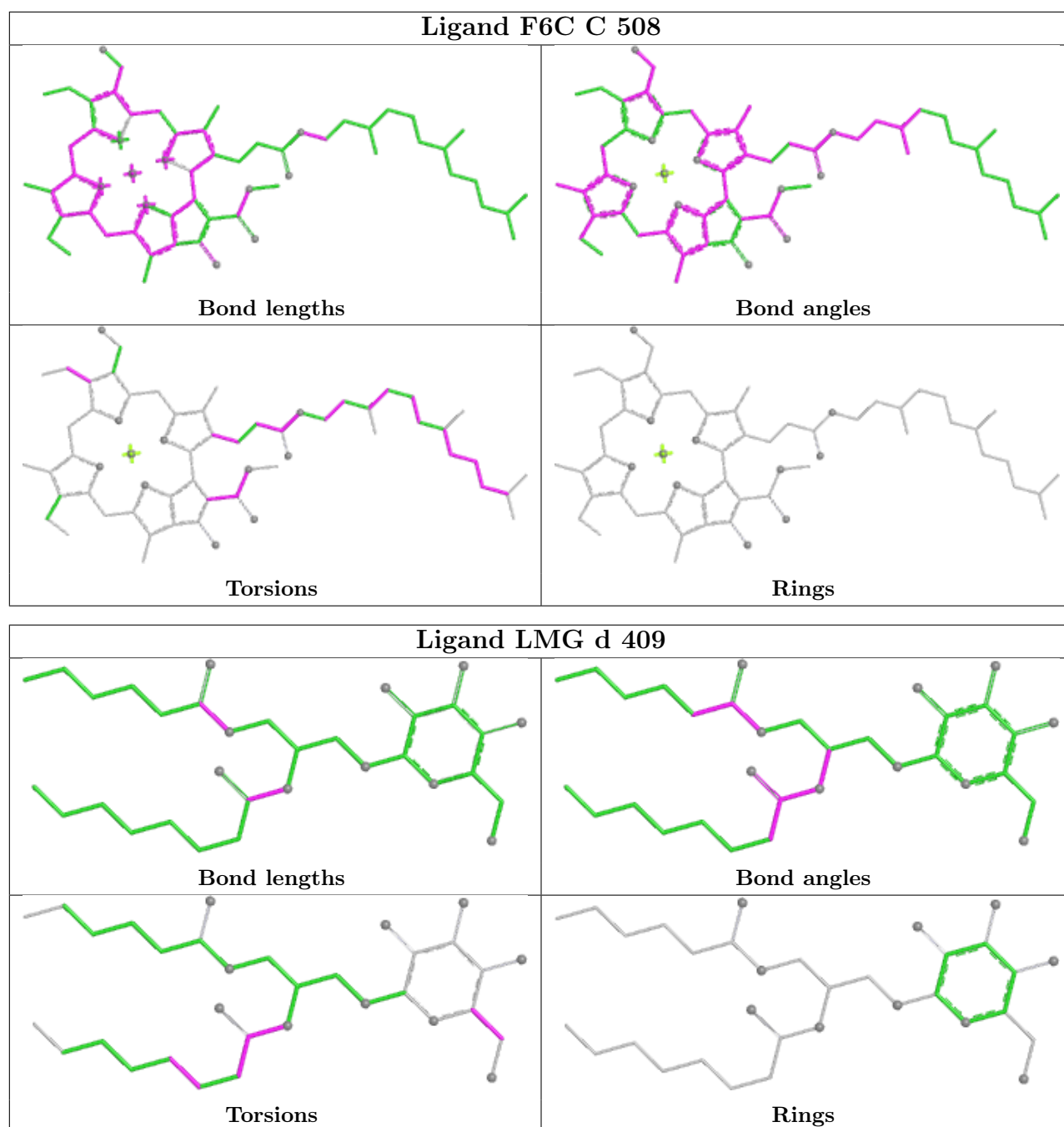


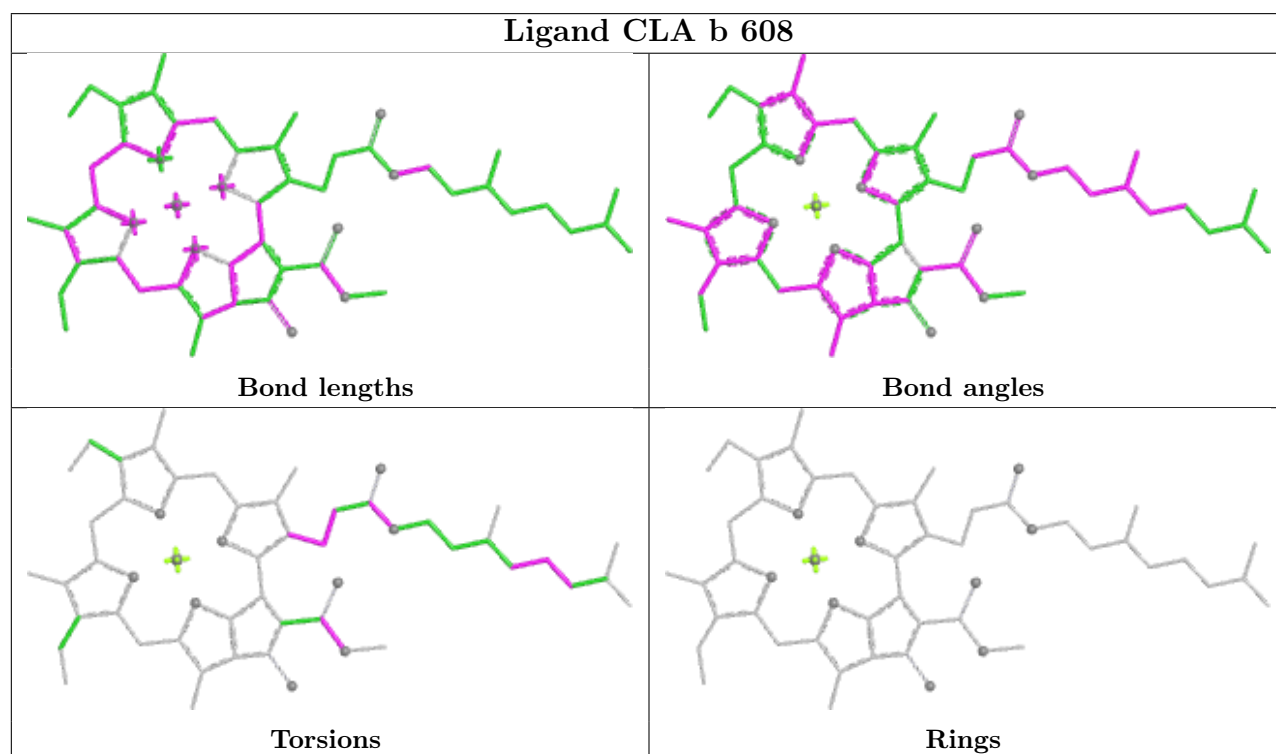
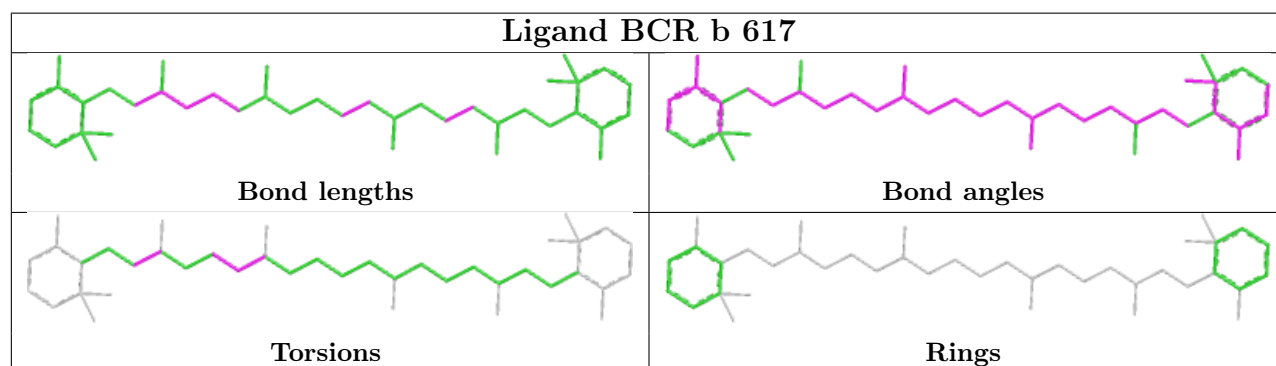
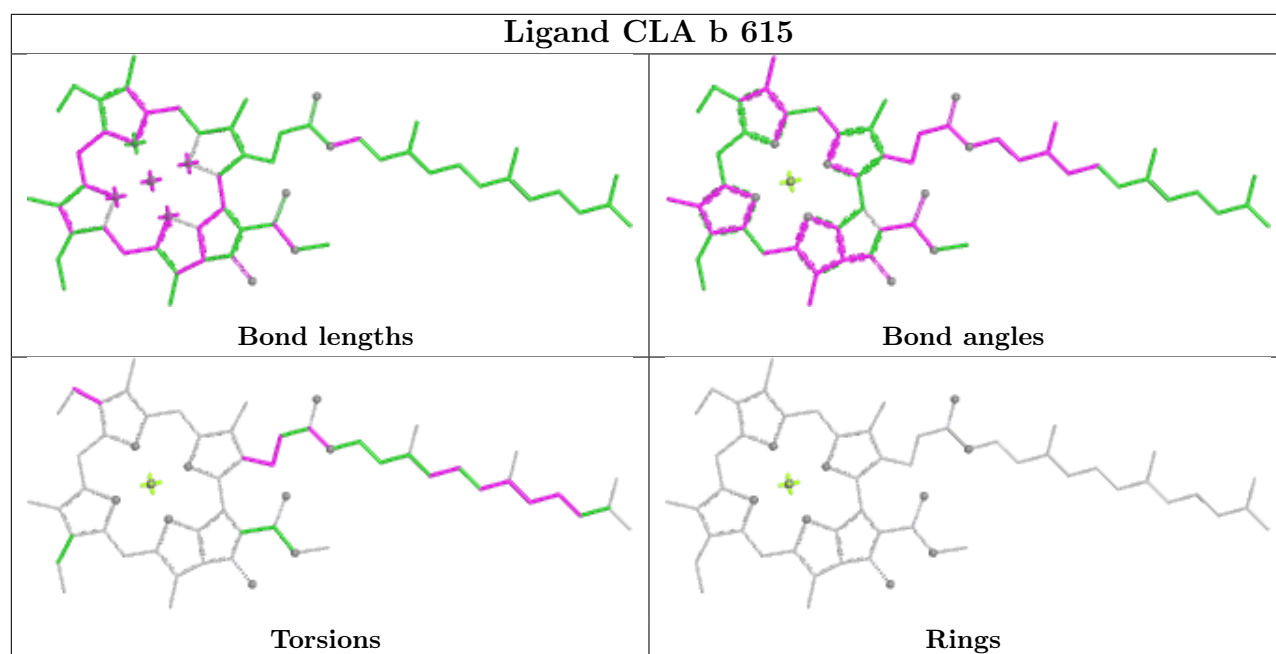
Ligand BCR C 515

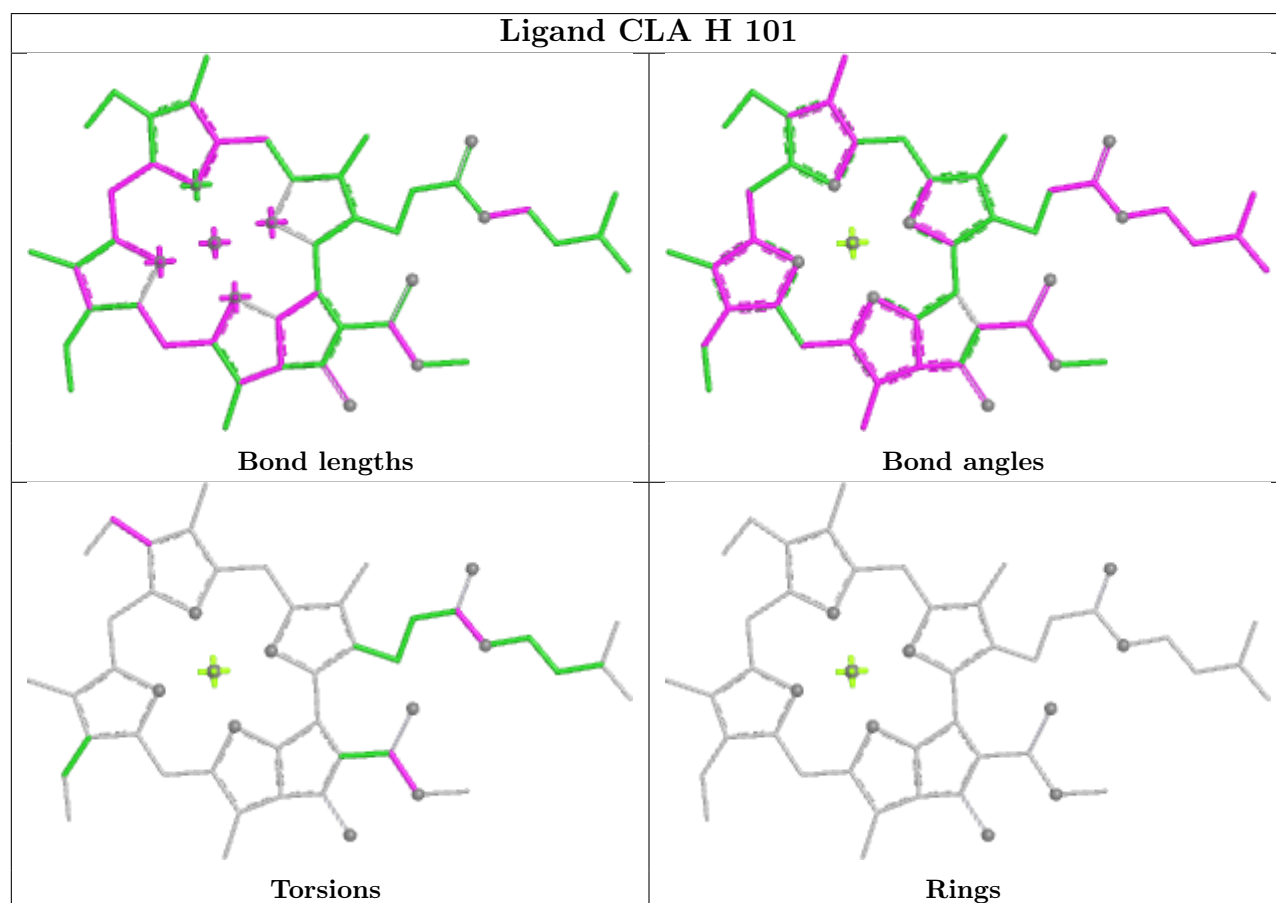
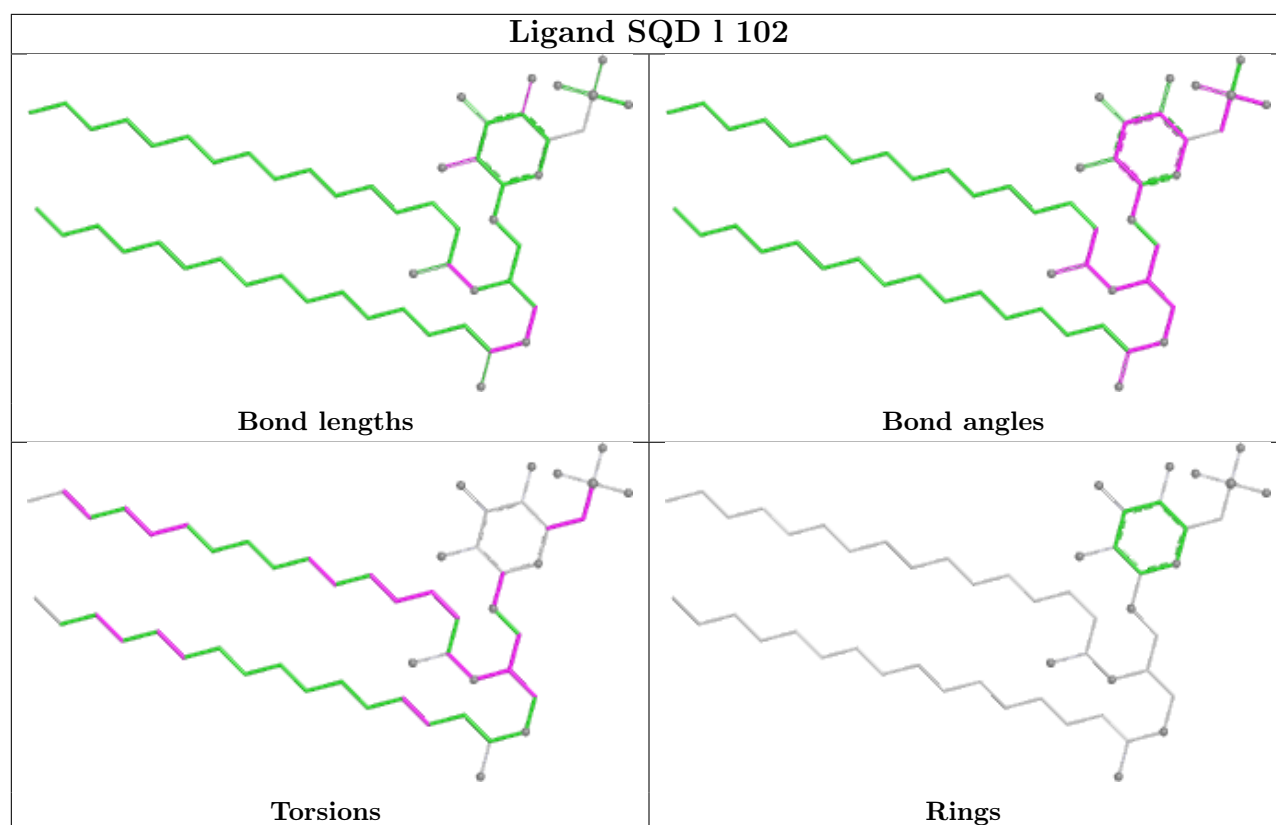


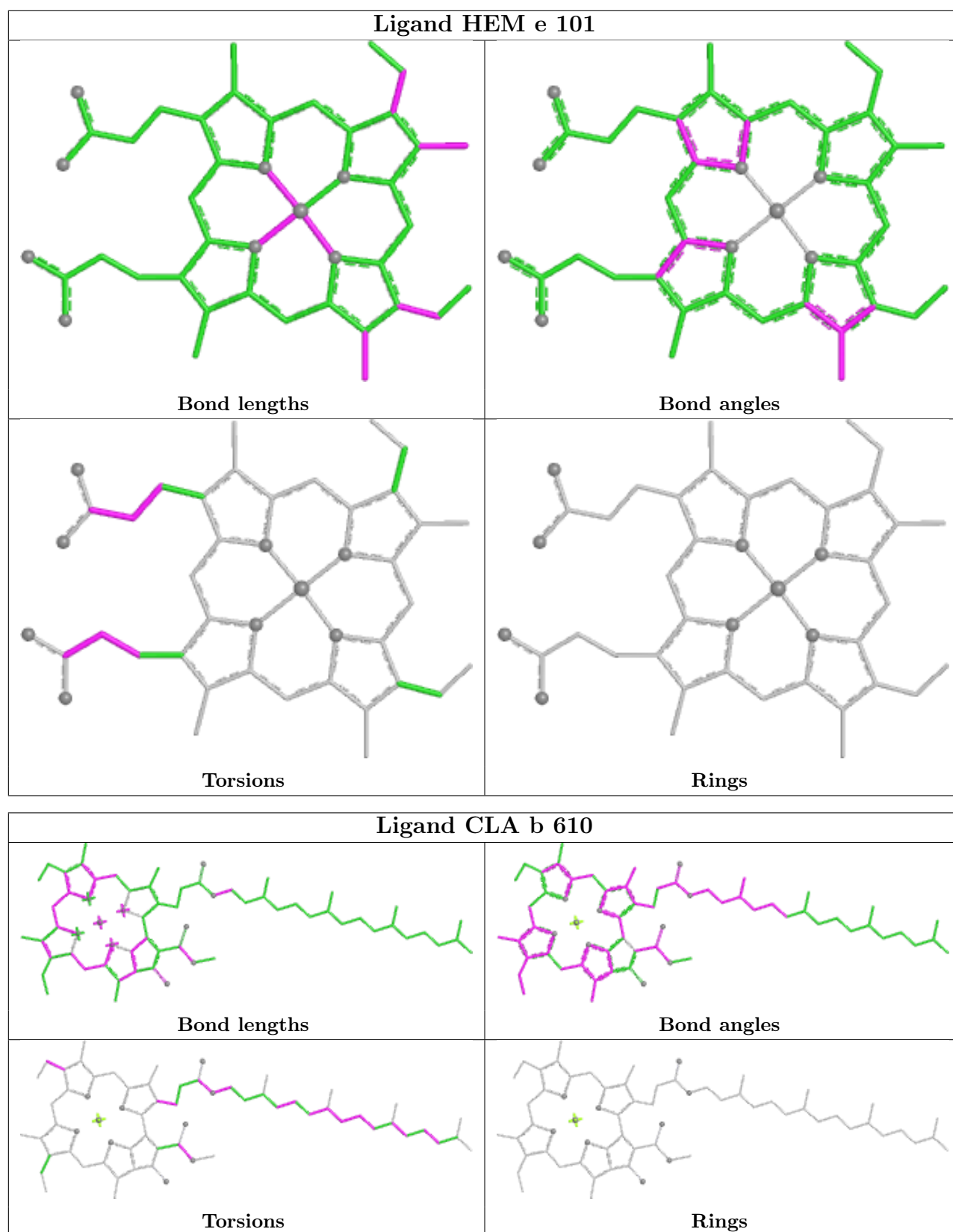


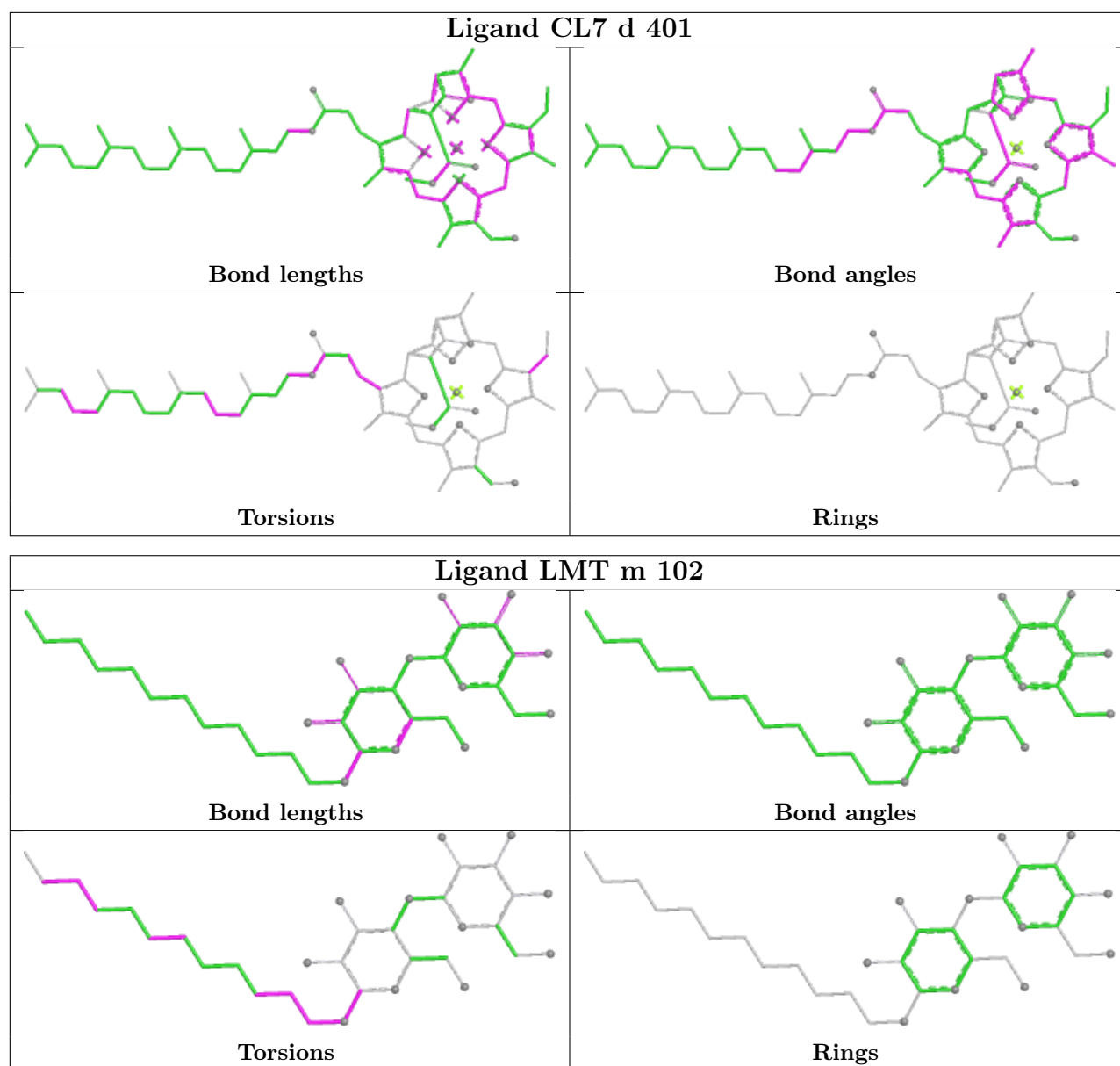


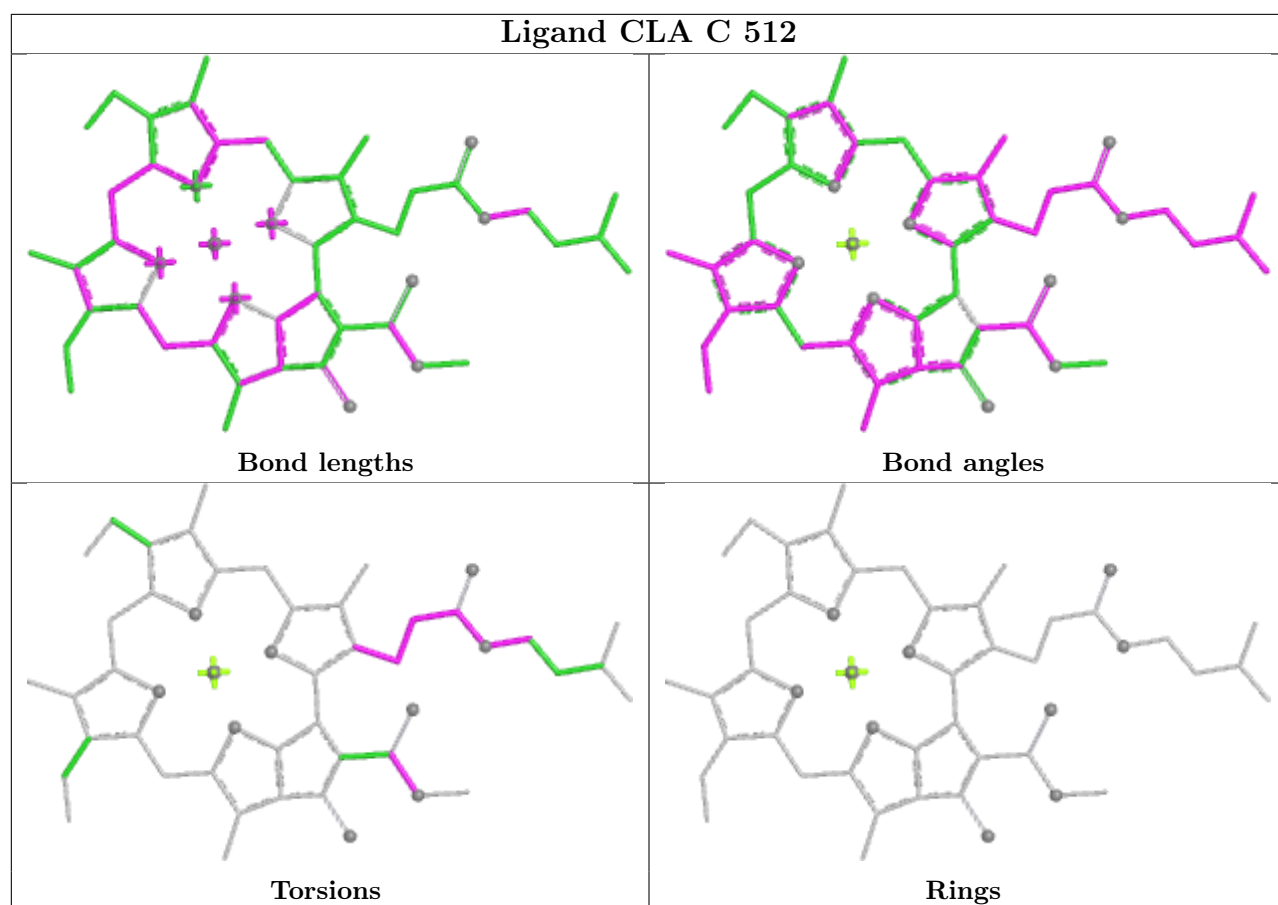




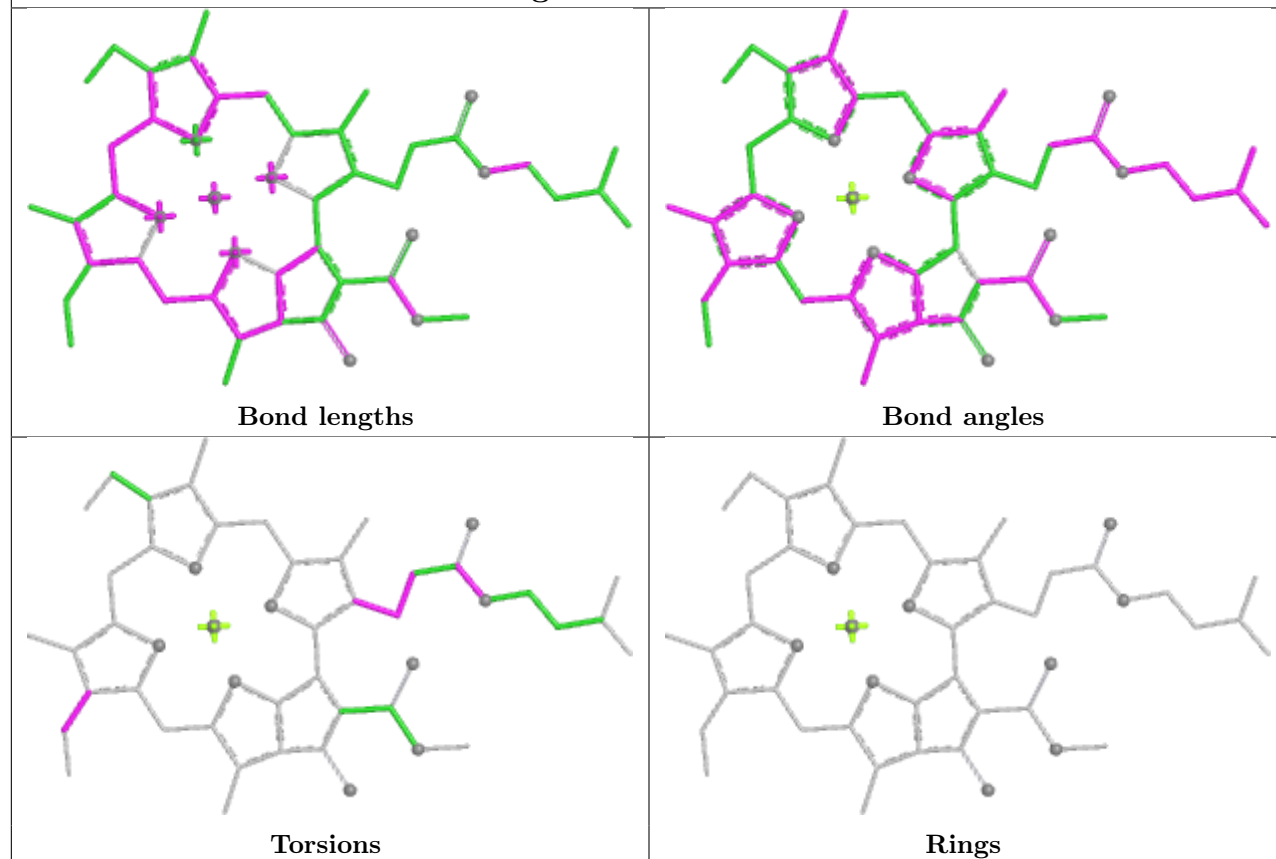




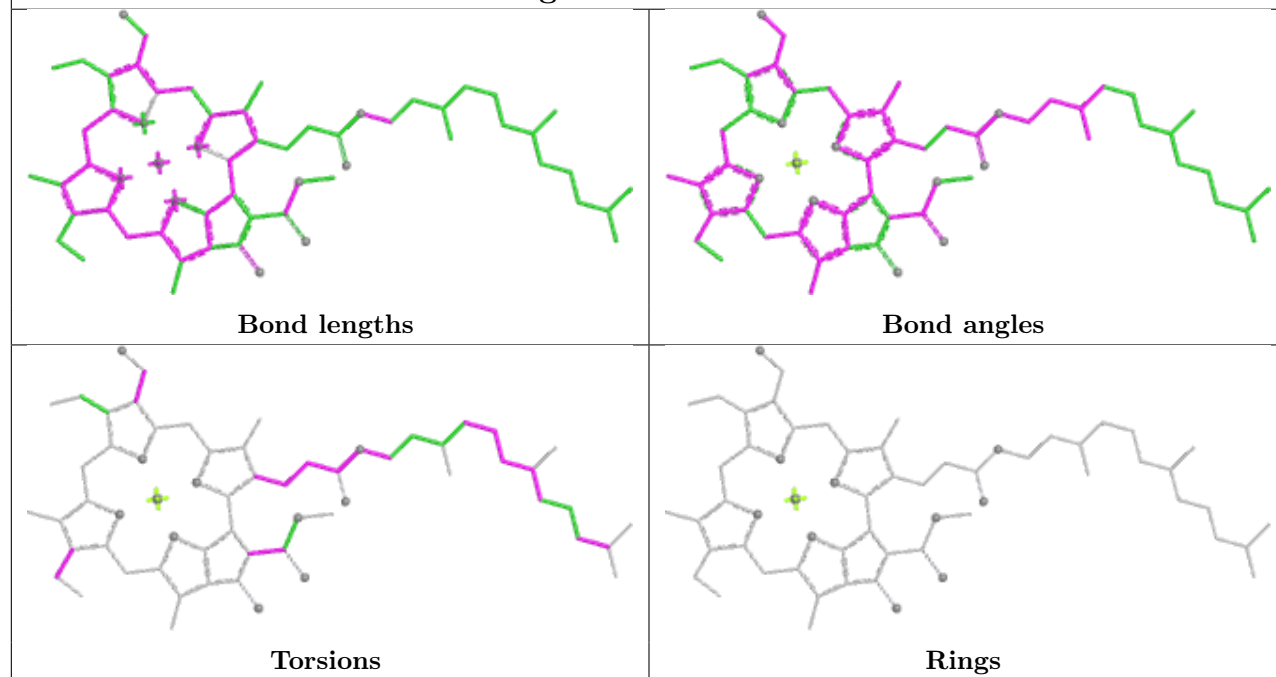


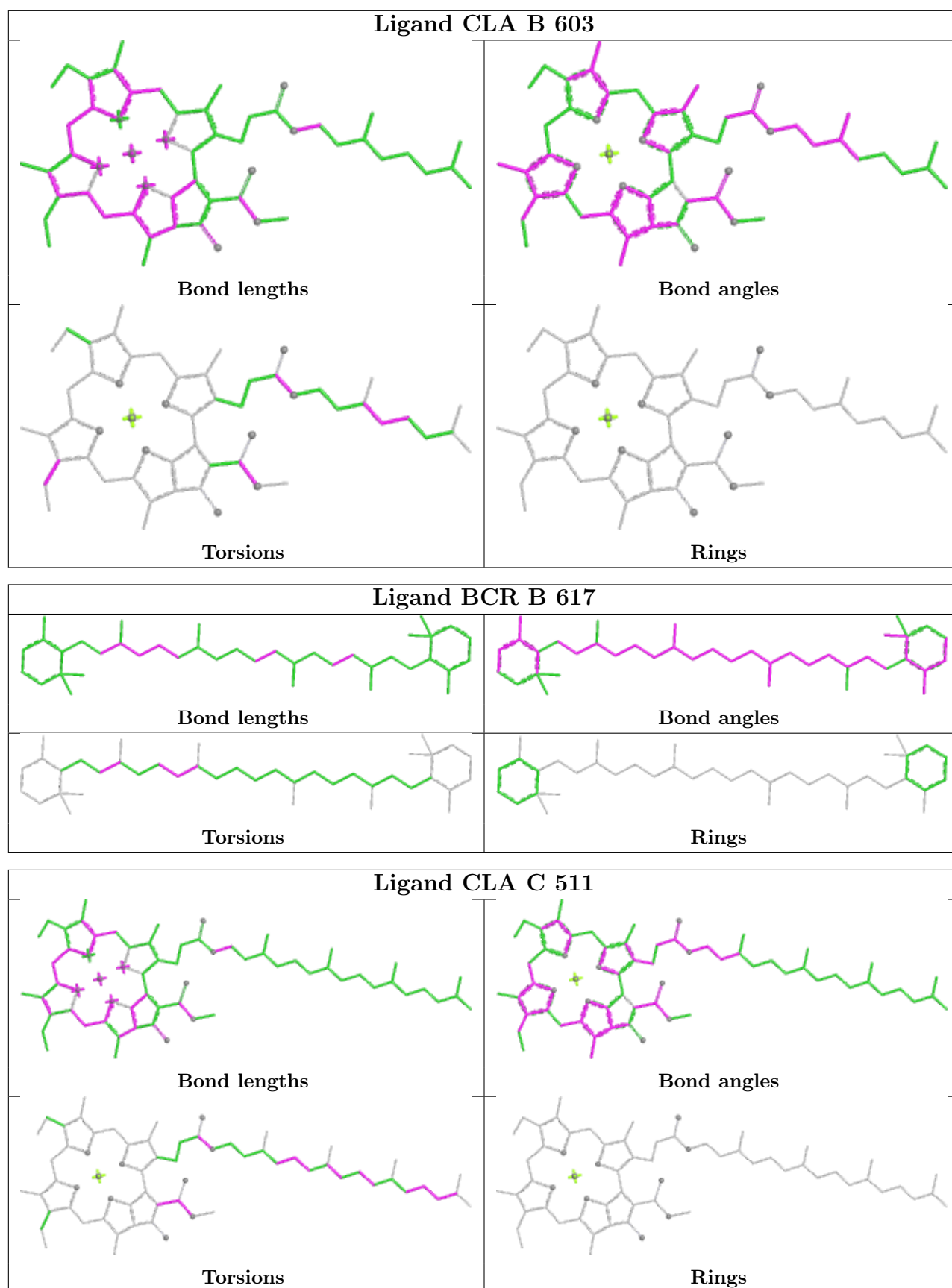


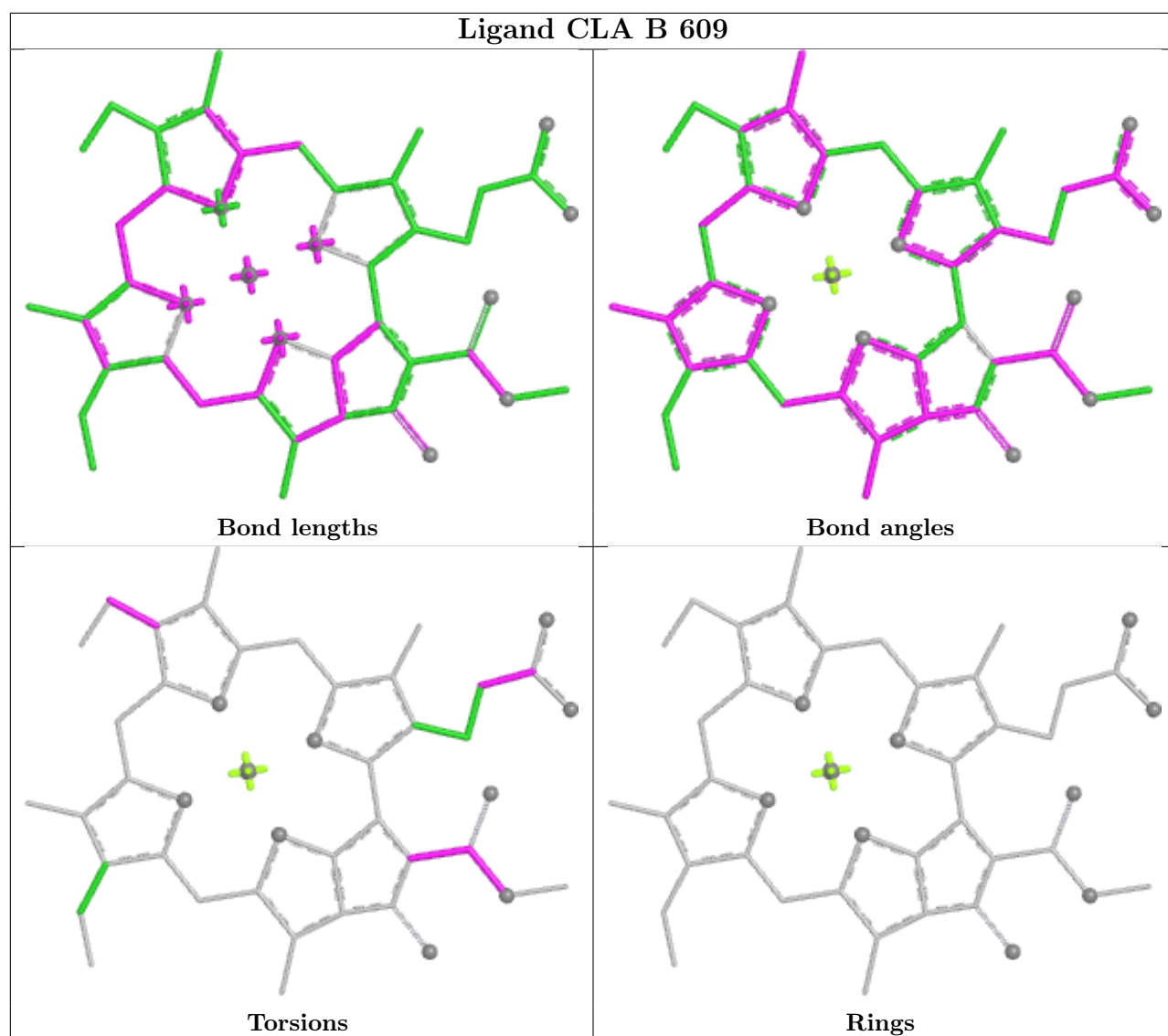
Ligand CLA A 407

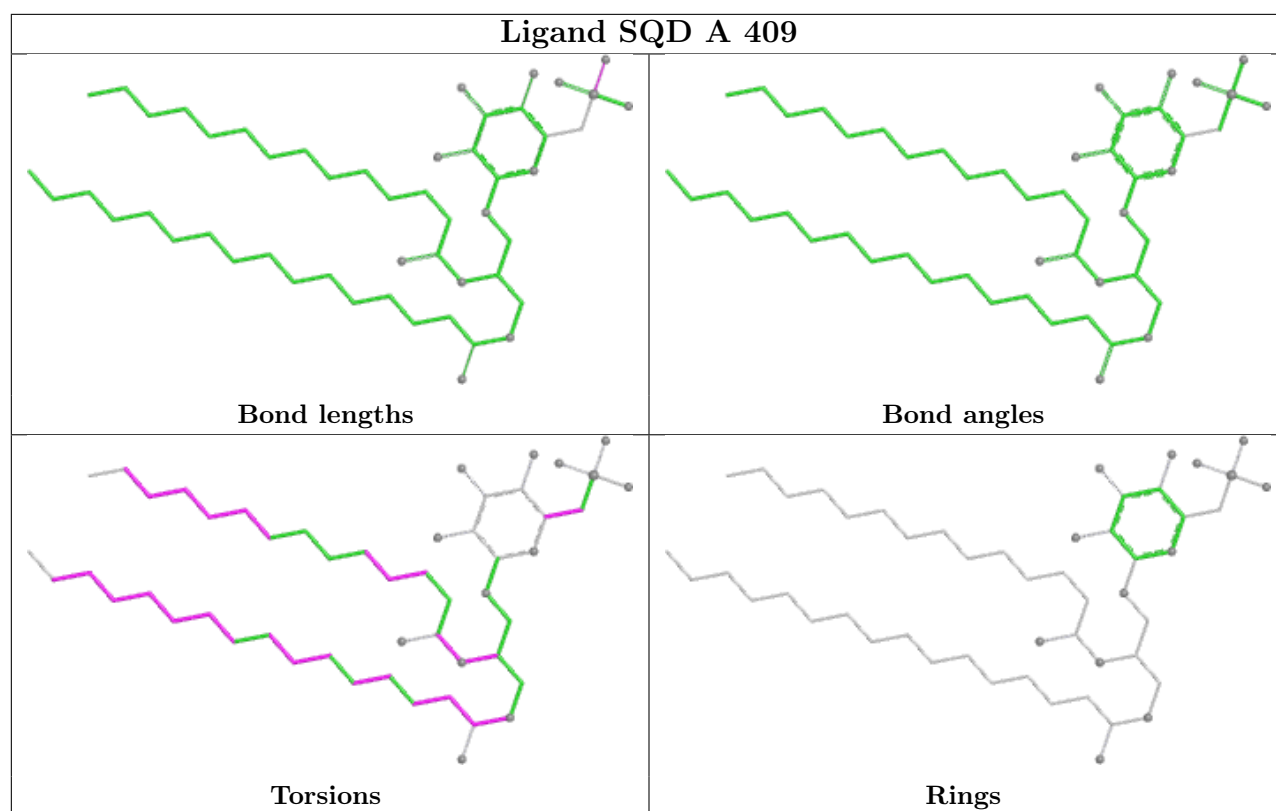


Ligand F6C b 607

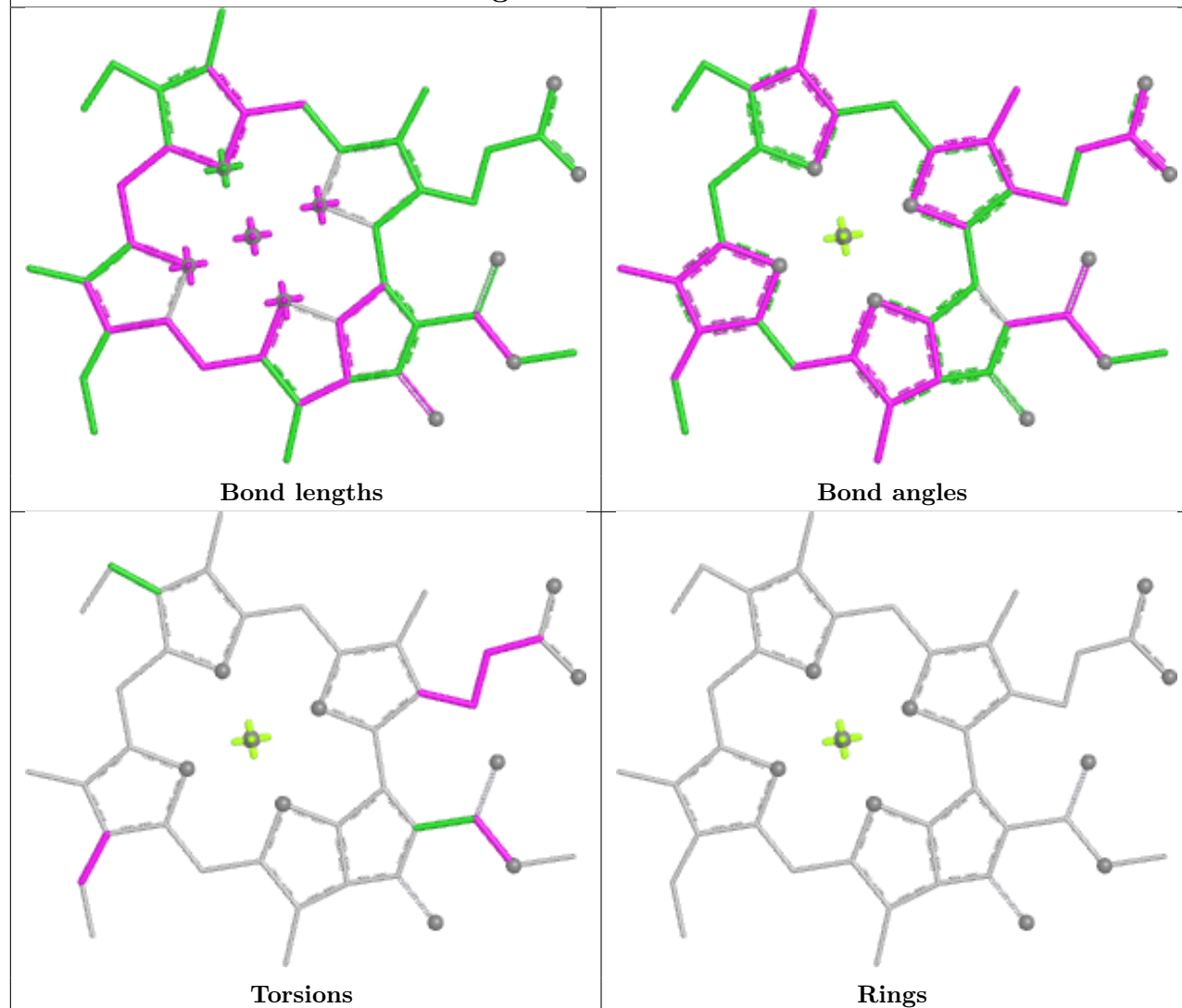




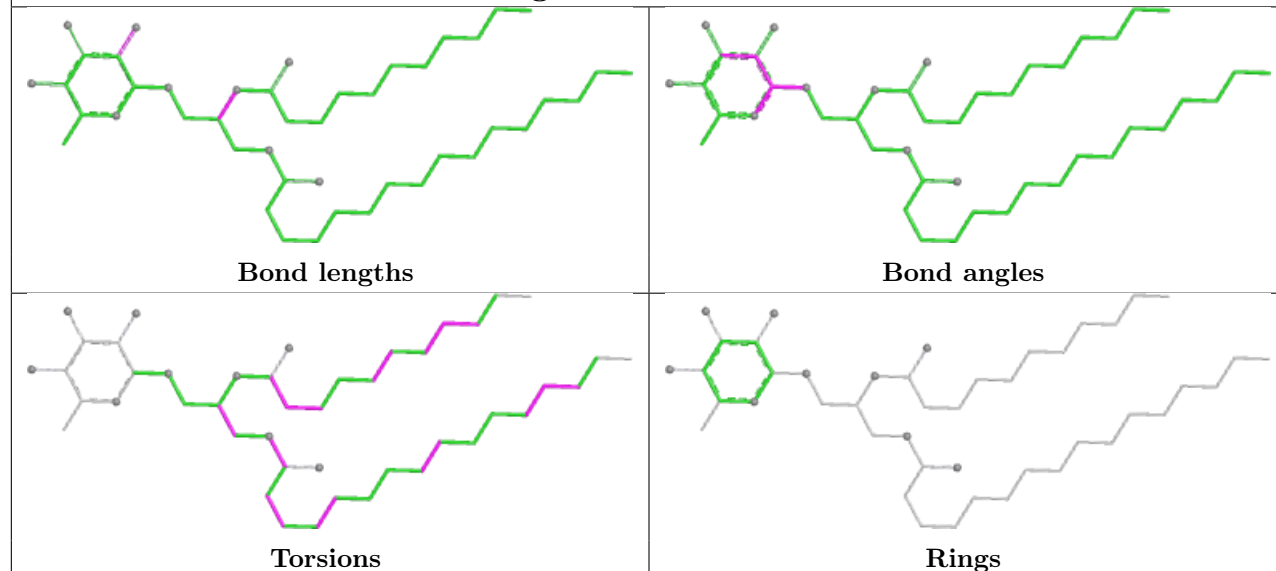




Ligand CLA D 404



Ligand DGD d 410



4.7 Other polymers

There are no such residues in this entry.

4.8 Polymer linkage issues

There are no chain breaks in this entry.

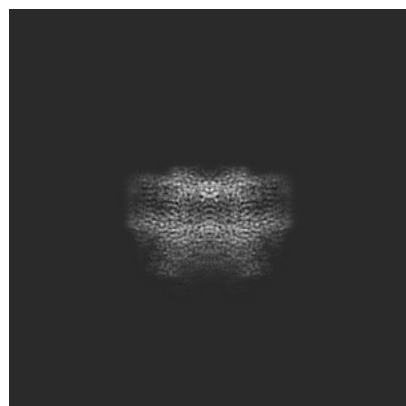
5 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-28539. These allow visual inspection of the internal detail of the map and identification of artifacts.

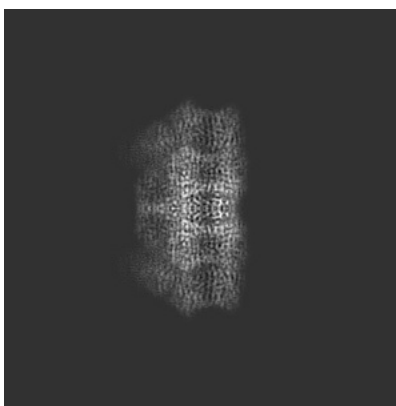
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

5.1 Orthogonal projections [i](#)

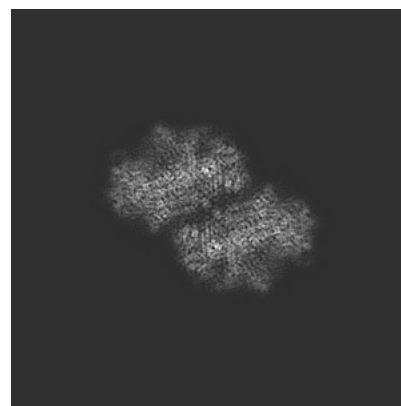
5.1.1 Primary map



X

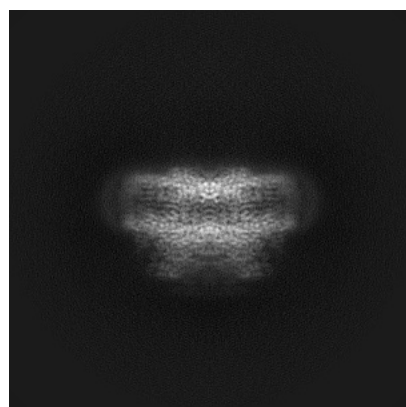


Y

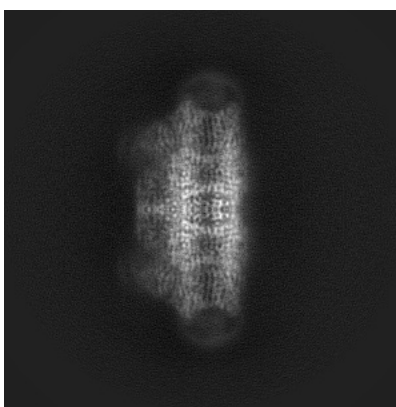


Z

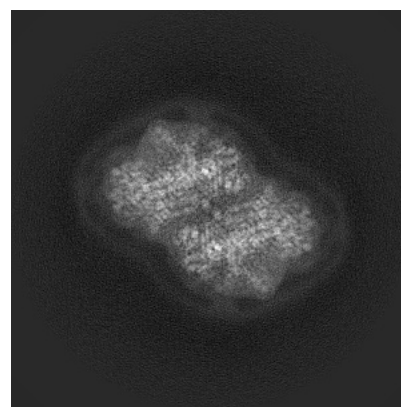
5.1.2 Raw map



X



Y



Z

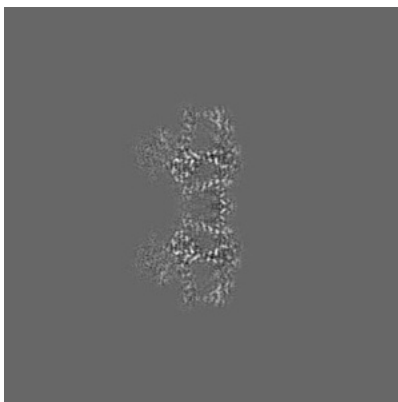
The images above show the map projected in three orthogonal directions.

5.2 Central slices [i](#)

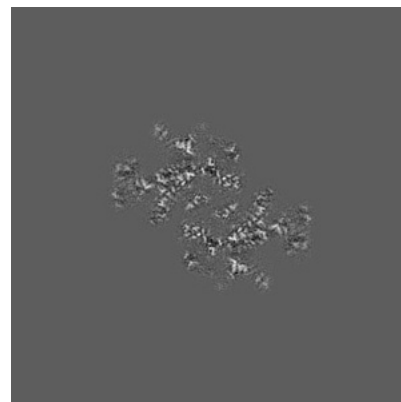
5.2.1 Primary map



X Index: 192

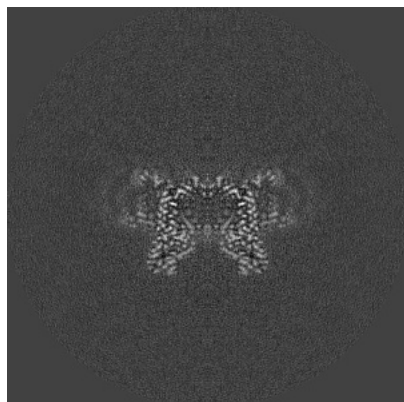


Y Index: 192

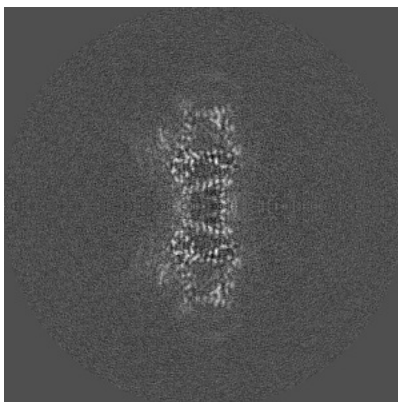


Z Index: 192

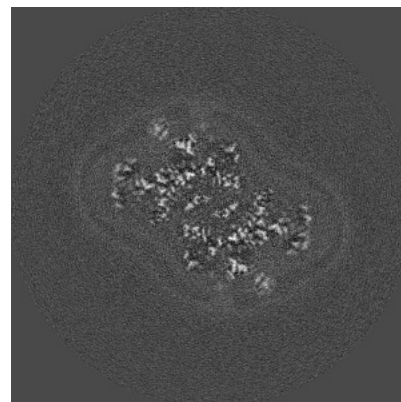
5.2.2 Raw map



X Index: 192



Y Index: 192



Z Index: 192

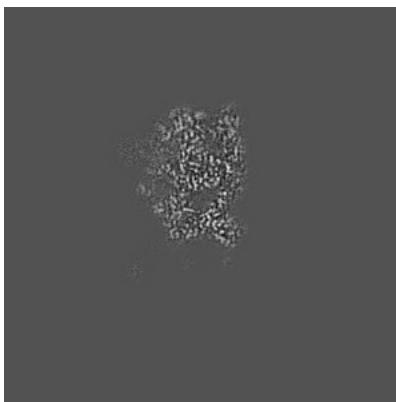
The images above show central slices of the map in three orthogonal directions.

5.3 Largest variance slices [i](#)

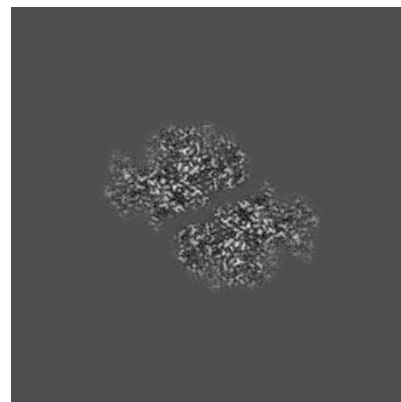
5.3.1 Primary map



X Index: 168

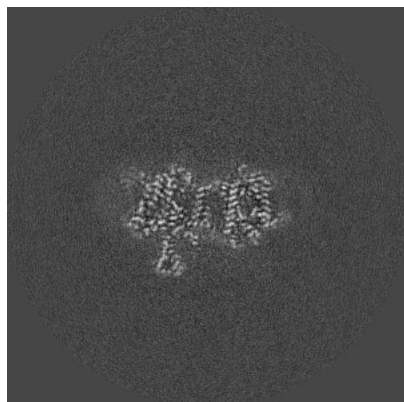


Y Index: 166

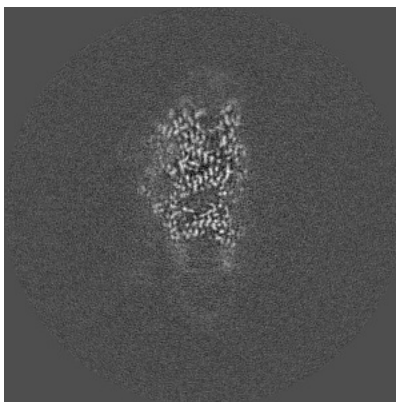


Z Index: 175

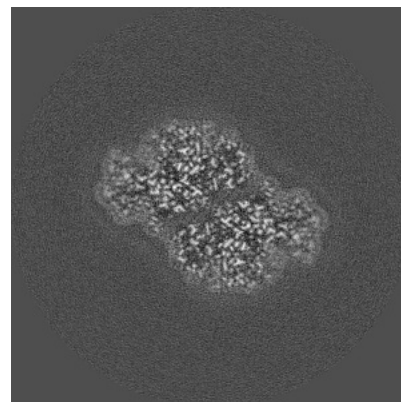
5.3.2 Raw map



X Index: 209



Y Index: 167

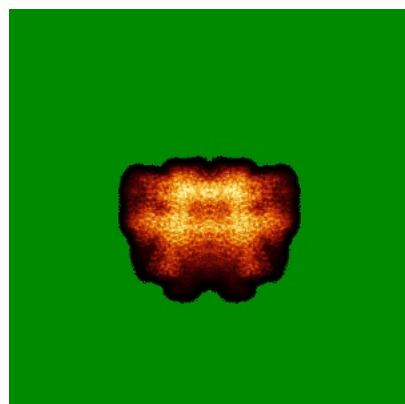


Z Index: 175

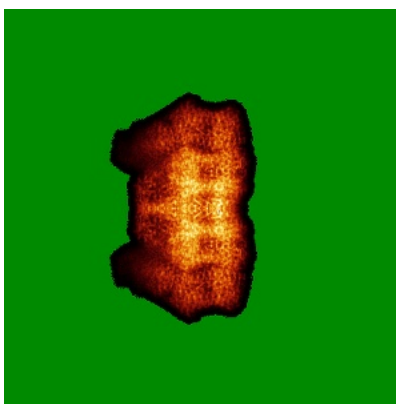
The images above show the largest variance slices of the map in three orthogonal directions.

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

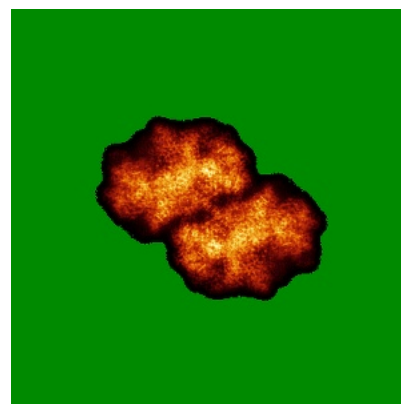
5.4.1 Primary map



X

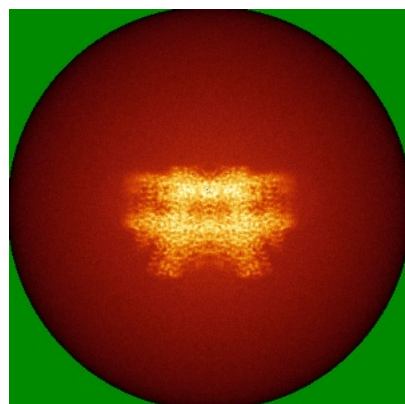


Y

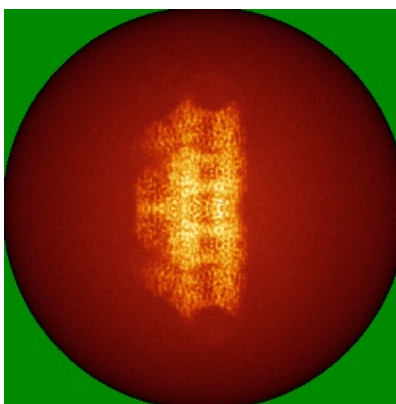


Z

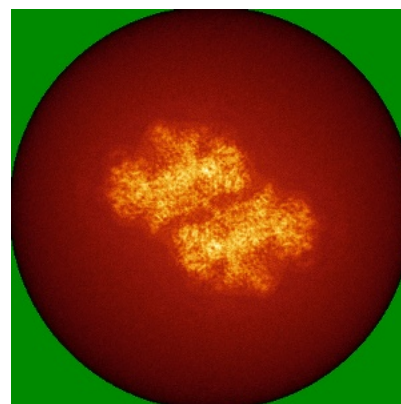
5.4.2 Raw map



X



Y

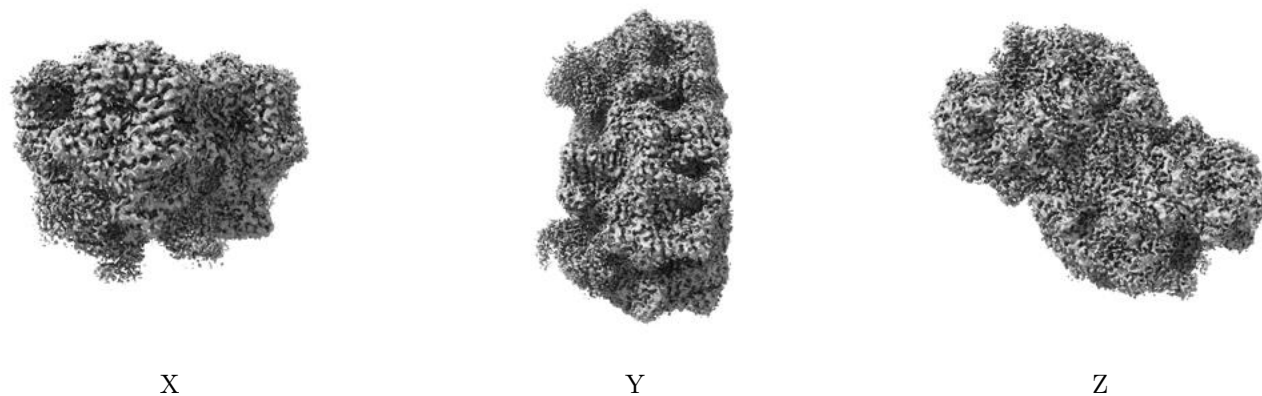


Z

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

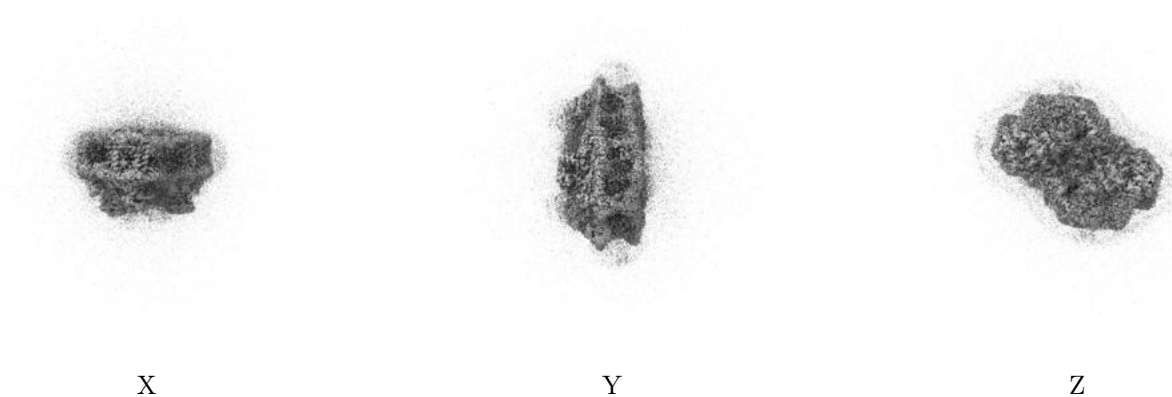
5.5 Orthogonal surface views [i](#)

5.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0013. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

5.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

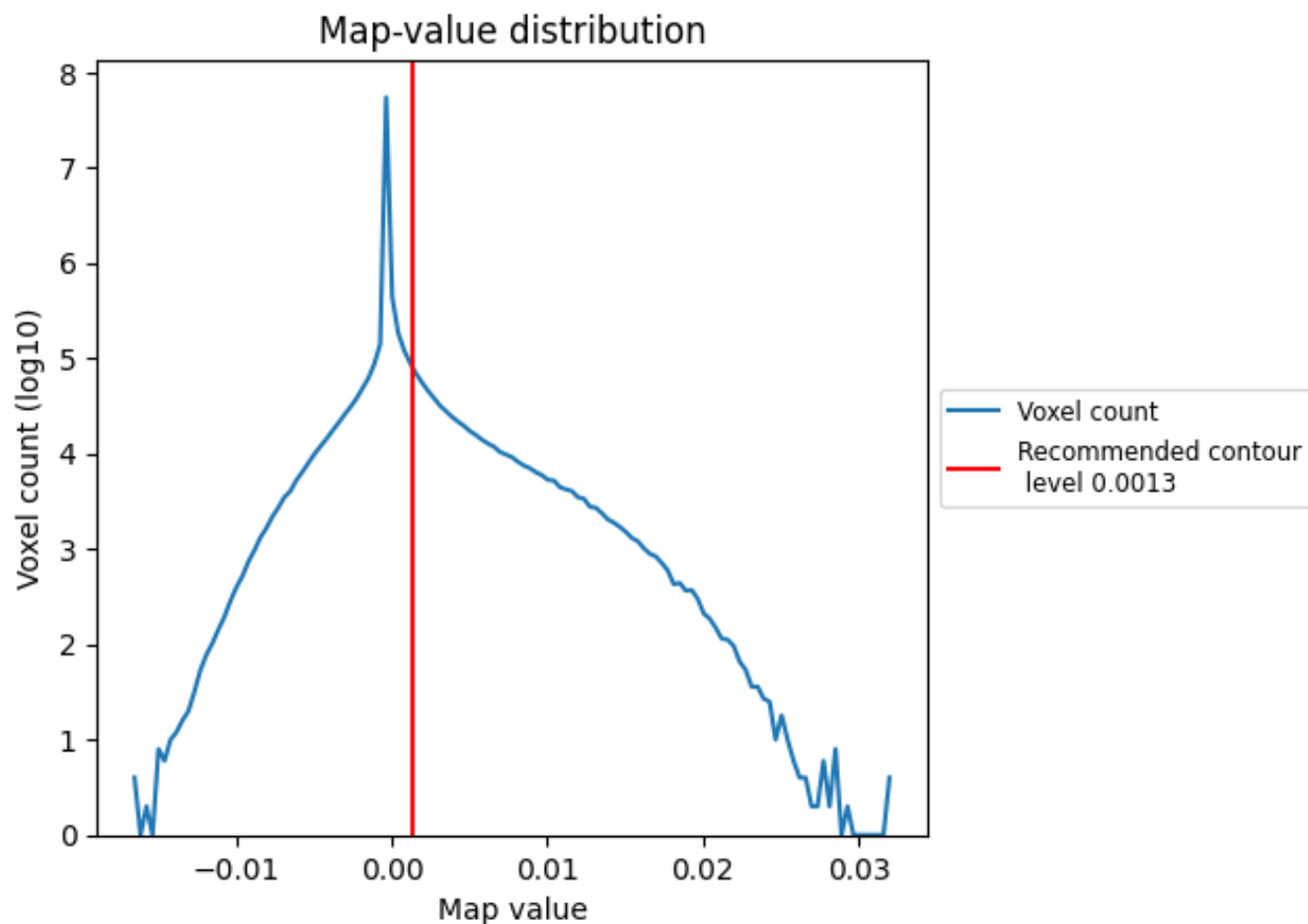
5.6 Mask visualisation [i](#)

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

6 Map analysis [i](#)

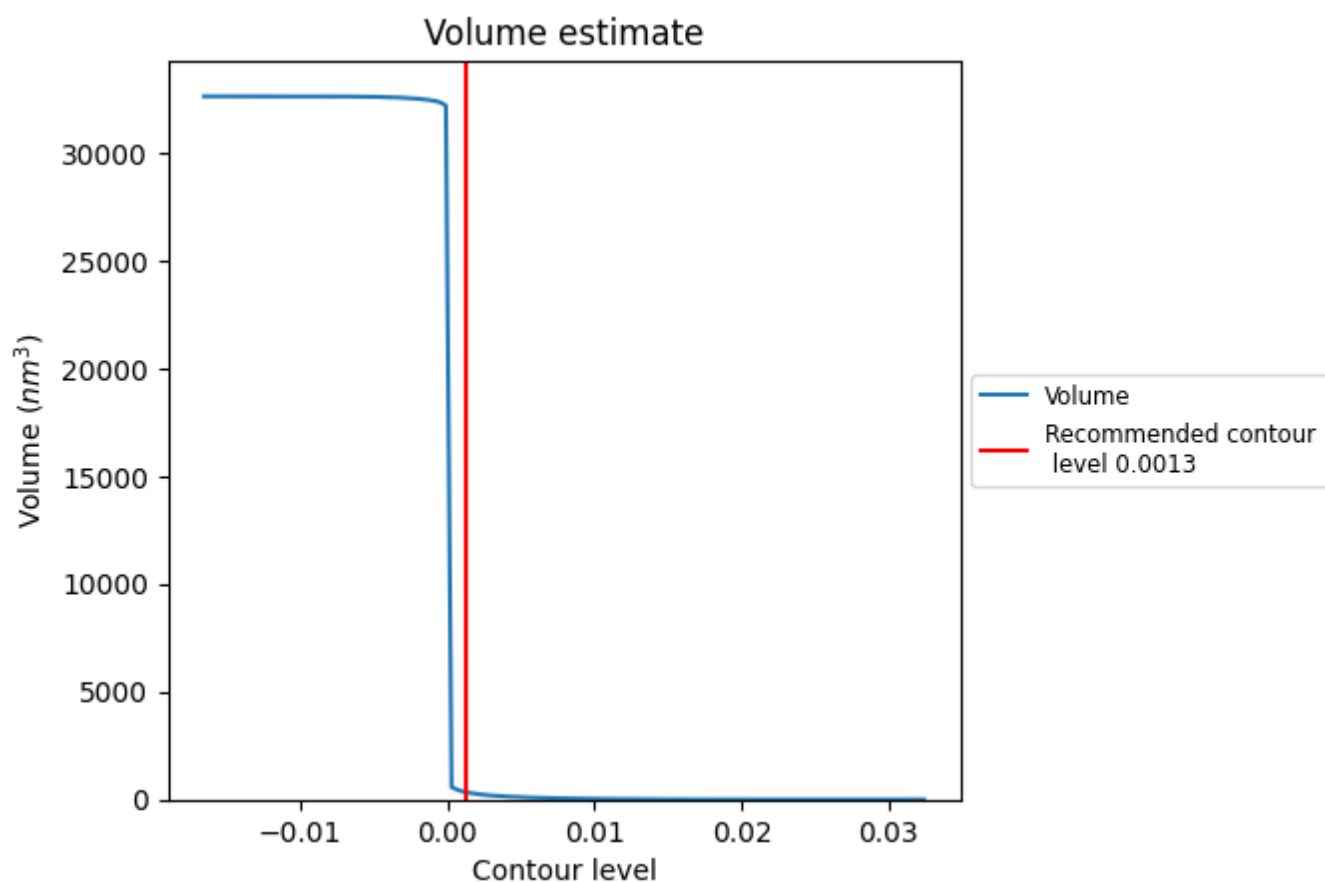
This section contains the results of statistical analysis of the map.

6.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

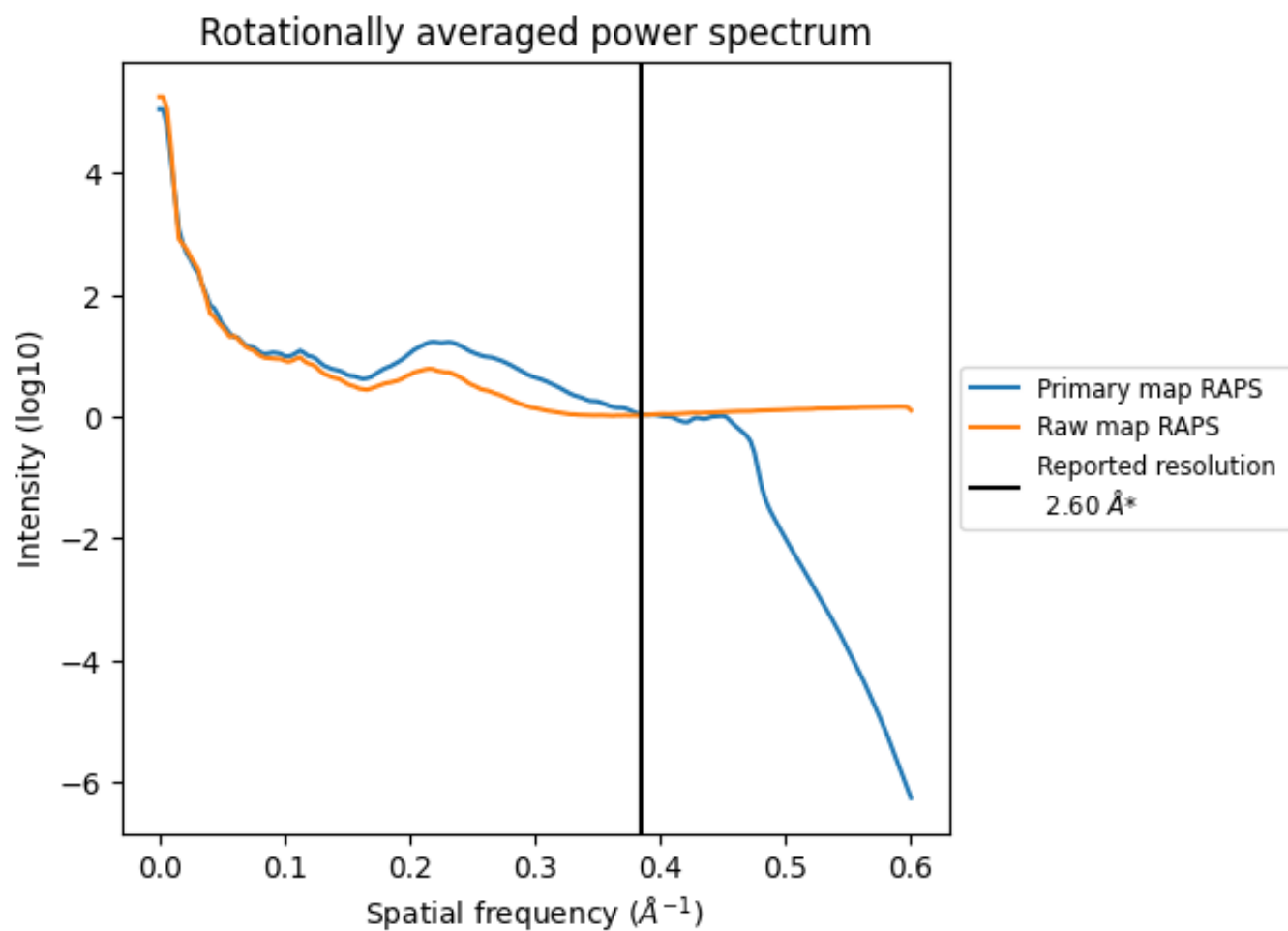
6.2 Volume estimate [i](#)



The volume at the recommended contour level is 340 nm^3 ; this corresponds to an approximate mass of 308 kDa.

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

6.3 Rotationally averaged power spectrum ⓘ

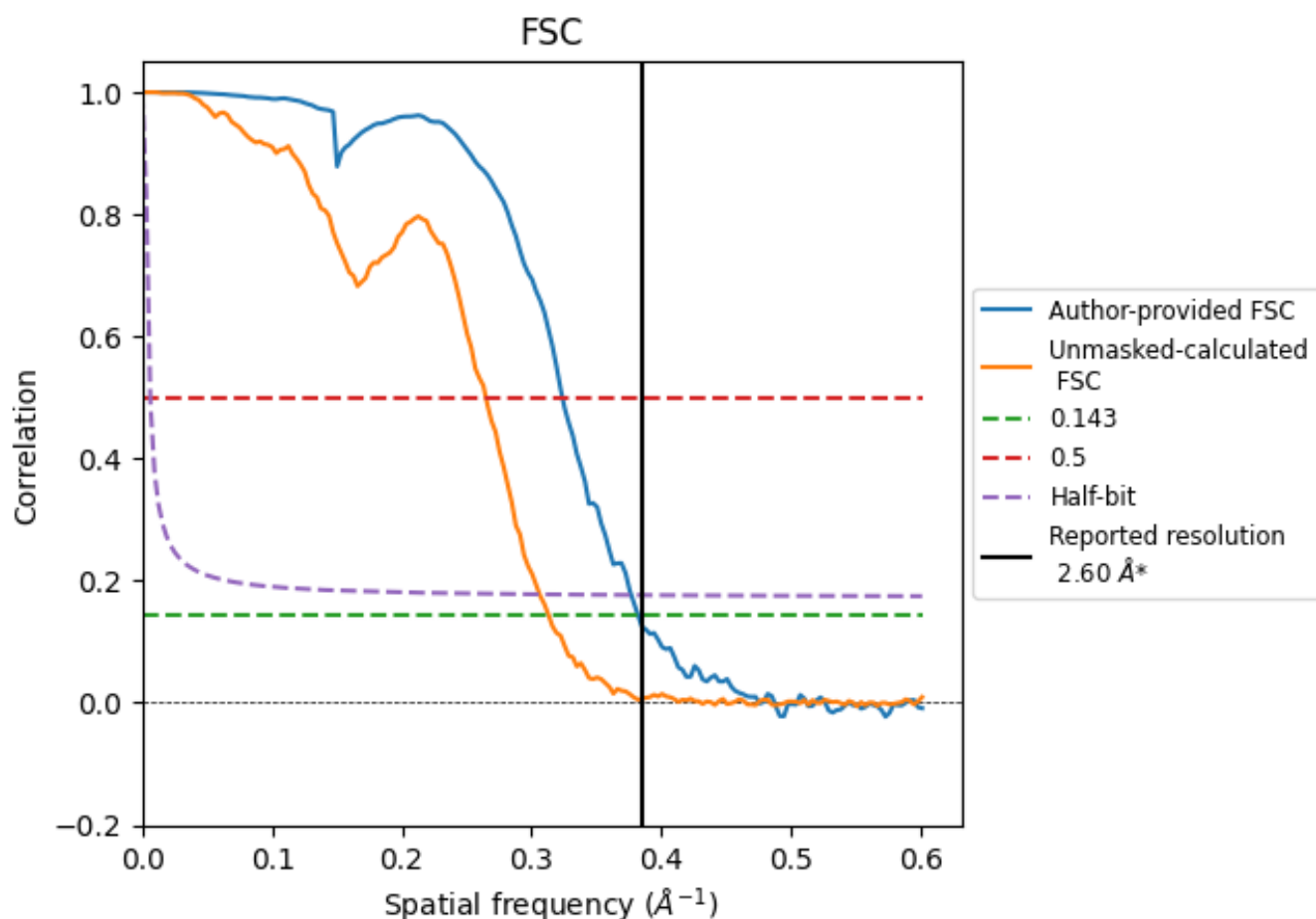


*Reported resolution corresponds to spatial frequency of 0.385 Å⁻¹

7 Fourier-Shell correlation [i](#)

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

7.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of $0.385 \text{ \AA}^{-1}$

7.2 Resolution estimates [i](#)

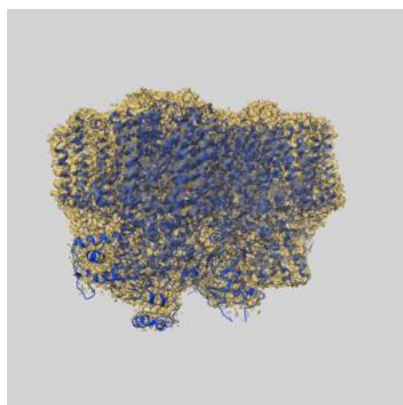
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.60	-	-
Author-provided FSC curve	2.62	3.09	2.65
Unmasked-calculated*	3.19	3.78	3.26

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.19 differs from the reported value 2.6 by more than 10 %

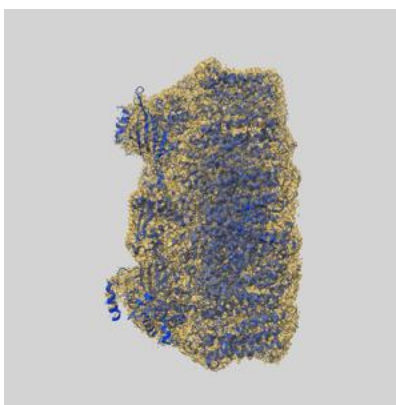
8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-28539 and PDB model 8EQM. Per-residue inclusion information can be found in section ?? on page ??.

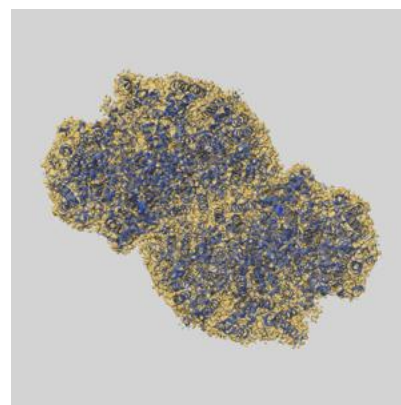
8.1 Map-model overlay [i](#)



X



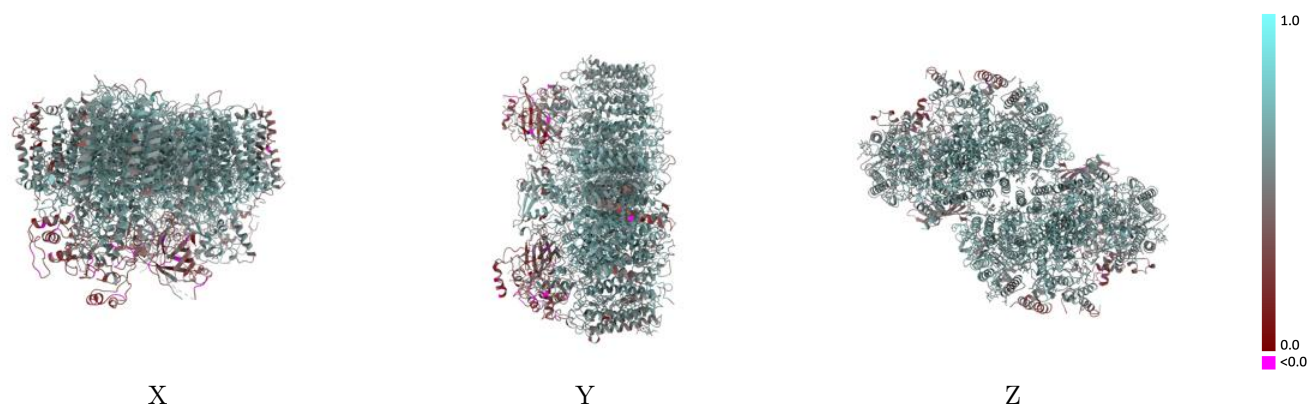
Y



Z

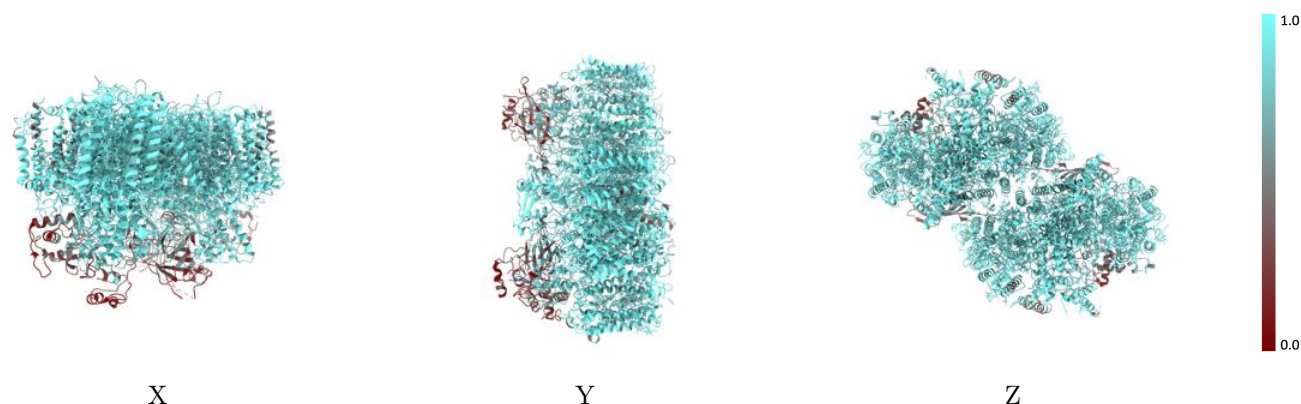
The images above show the 3D surface view of the map at the recommended contour level 0.0013 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



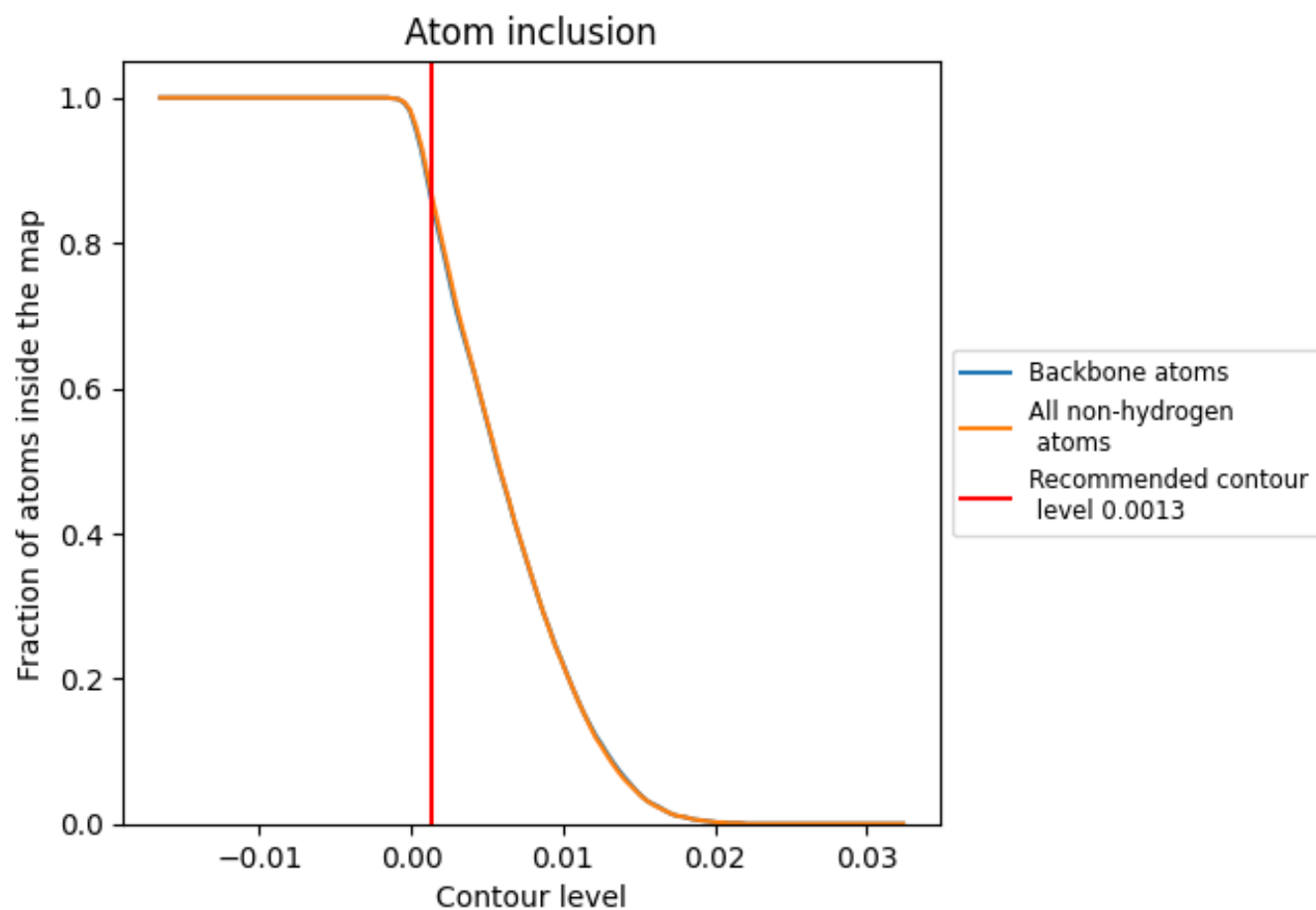
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0013).

8.4 Atom inclusion ⓘ



At the recommended contour level, 86% of all backbone atoms, 87% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.0013) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8720	 0.5530
A	 0.9650	 0.6260
B	 0.9450	 0.6120
C	 0.9310	 0.5520
D	 0.9650	 0.6280
E	 0.9000	 0.4990
F	 0.8840	 0.4900
H	 0.8870	 0.5460
I	 0.9420	 0.5700
K	 0.8250	 0.4550
L	 0.9480	 0.6220
M	 0.9340	 0.5750
O	 0.4790	 0.3290
T	 0.9230	 0.5840
U	 0.3330	 0.2590
V	 0.4180	 0.2930
X	 0.6370	 0.3290
a	 0.9650	 0.6260
b	 0.9450	 0.6110
c	 0.9300	 0.5520
d	 0.9650	 0.6290
e	 0.9000	 0.4980
f	 0.8880	 0.4910
h	 0.8910	 0.5510
i	 0.9420	 0.5750
k	 0.8250	 0.4510
l	 0.9480	 0.6210
m	 0.9280	 0.5740
o	 0.4760	 0.3280
t	 0.9180	 0.5830
u	 0.3280	 0.2570
v	 0.4220	 0.2930
x	 0.6490	 0.3270

