



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 08:29 AM UTC

PDB ID : 9LTI / pdb_00009lti
EMDB ID : EMD-63370
Title : Cryo-EM structure of LH1-RC from Ery. sanguineus
Authors : Yue, X.-Y.; Wang, G.-L.; Yu, L.-J.
Deposited on : 2025-02-06
Resolution : 2.27 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.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
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) : 2.49

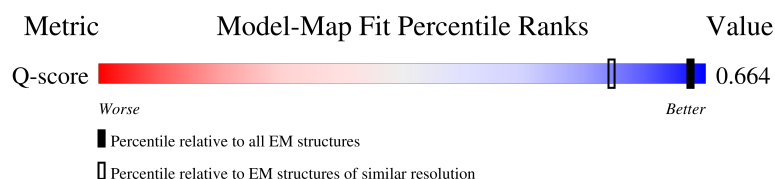
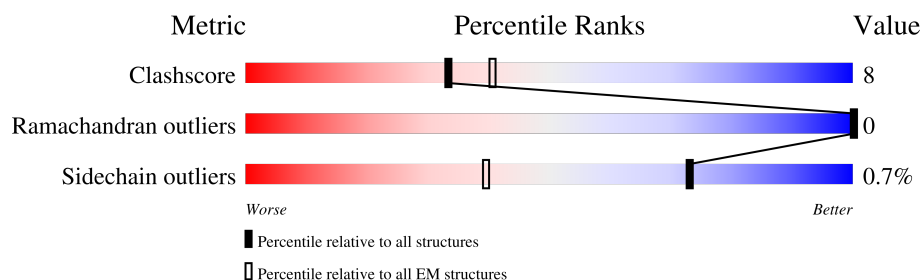
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.27 Å.

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



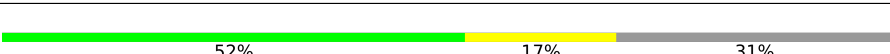
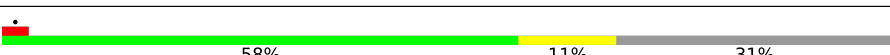
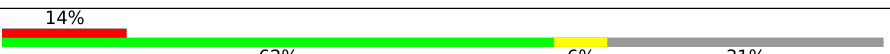
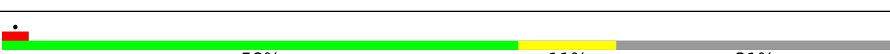
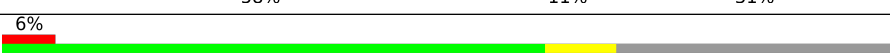
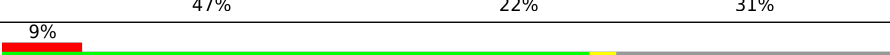
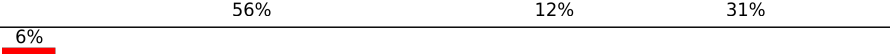
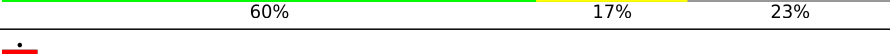
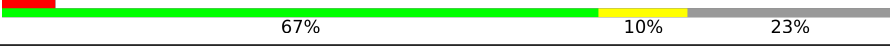
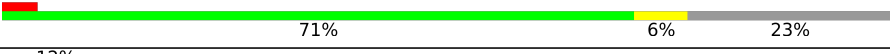
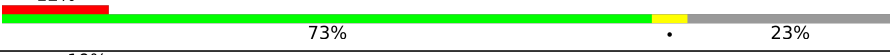
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	3593 (1.77 - 2.77)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	64	
1	B	64	
1	C	64	
1	D	64	

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Mol	Chain	Length	Quality of chain
1	E	64	
1	F	64	
1	G	64	
1	I	64	
1	J	64	
1	K	64	
1	N	64	
1	O	64	
1	P	64	
1	Q	64	
1	R	64	
1	S	64	
2	a	52	
2	b	52	
2	c	52	
2	d	52	
2	e	52	
2	f	52	
2	g	52	
2	i	52	
2	j	52	
2	k	52	
2	n	52	
2	o	52	
2	p	52	

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Mol	Chain	Length	Quality of chain
2	q	52	
2	r	52	
2	s	52	
3	L	274	
4	H	268	
5	M	323	
6	T	135	

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
9	A1ELD	R	102	-	X	X	-

2 Entry composition

There are 19 unique types of molecules in this entry. The entry contains 22831 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 Light-harvesting complex 1 alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	B	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	C	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	D	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	E	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	F	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	G	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	Q	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	I	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	J	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	K	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	R	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	S	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	N	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	O	44	Total	C	N	O	S	0	0
			384	260	67	56	1		
1	P	44	Total	C	N	O	S	0	0
			384	260	67	56	1		

- Molecule 2 is a protein called Antenna complex alpha/beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	b	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	a	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	p	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	o	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	n	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	s	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	r	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	k	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	j	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	c	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	d	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	e	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	f	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	g	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	q	40	Total	C	N	O	S	0	0
			326	223	49	52	2		
2	i	40	Total	C	N	O	S	0	0
			326	223	49	52	2		

- Molecule 3 is a protein called Reaction center protein L chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	L	273	Total	C	N	O	S	0	0
			2135	1431	340	358	6		

- Molecule 4 is a protein called Photosynthetic reaction center H subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	H	265	Total	C	N	O	S	0	0
			2079	1343	347	380	9		

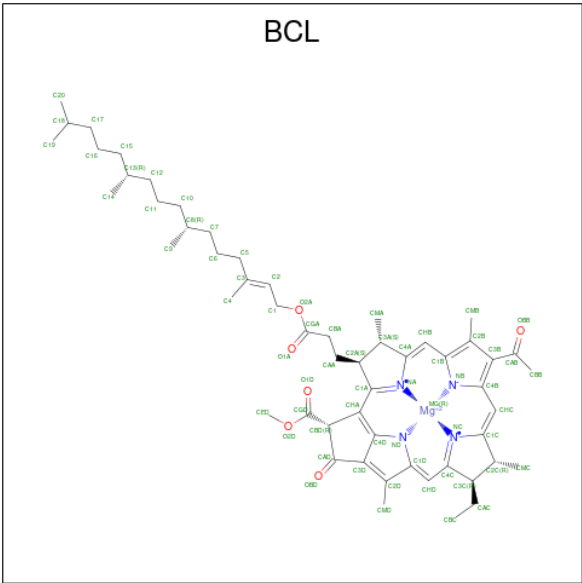
- Molecule 5 is a protein called Reaction center protein M chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	M	320	2543	1689	412	433	9	0	0

- Molecule 6 is a protein called Secreted protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	T	20	120	68	23	28	1	0	0

- Molecule 7 is BACTERIOCHLOROPHYLL A (CCD ID: BCL) (formula: C₅₅H₇₄MgN₄O₆) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
7	A	1	66	55	1	4	6	0
7	B	1	66	55	1	4	6	0
7	C	1	66	55	1	4	6	0
7	D	1	66	55	1	4	6	0
7	E	1	66	55	1	4	6	0
7	F	1	66	55	1	4	6	0

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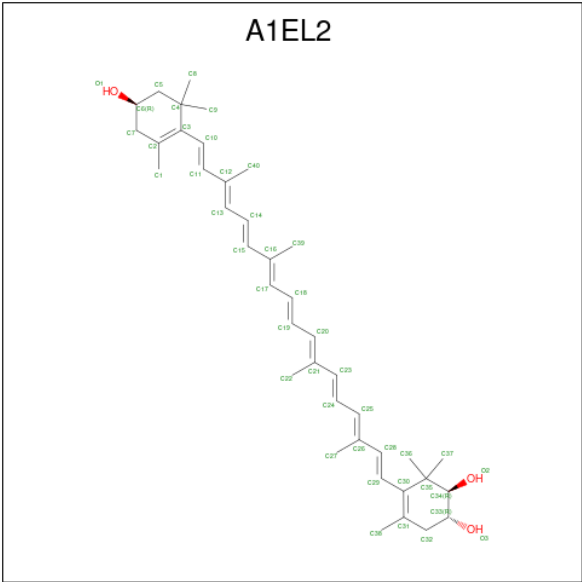
Mol	Chain	Residues	Atoms					AltConf
7	G	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	Q	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	I	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	J	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	K	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	R	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	S	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	N	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	O	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	P	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	b	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	a	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	p	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	o	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	n	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	s	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	r	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	k	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	j	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	c	1	Total 66	C 55	Mg 1	N 4	O 6	0
7	d	1	Total 66	C 55	Mg 1	N 4	O 6	0

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Mol	Chain	Residues	Atoms					AltConf
7	e	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
7	f	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
7	g	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
7	q	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
7	i	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
7	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
7	L	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
7	M	1	Total	C	Mg	N	O	0
			66	55	1	4	6	
7	M	1	Total	C	Mg	N	O	0
			66	55	1	4	6	

- Molecule 8 is (1 {R},2 {R})-3,3,5-trimethyl-4-[(1 {E},3 {E},5 {E},7 {E},9 {E},11 {E},13 {E},15 {E},17 {E})-3,7,12,16-tetramethyl-18-[(4 {R})-2,6,6-trimethyl-4-oxidanyl-cyclohexen-1-yl]octadeca-1,3,5,7,9,11,13,15,17-nonaenyl]cyclohex-4-ene-1,2-diol (CCD ID: A1EL2) (formula: C₄₀H₅₆O₃) (labeled as "Ligand of Interest" by depositor).



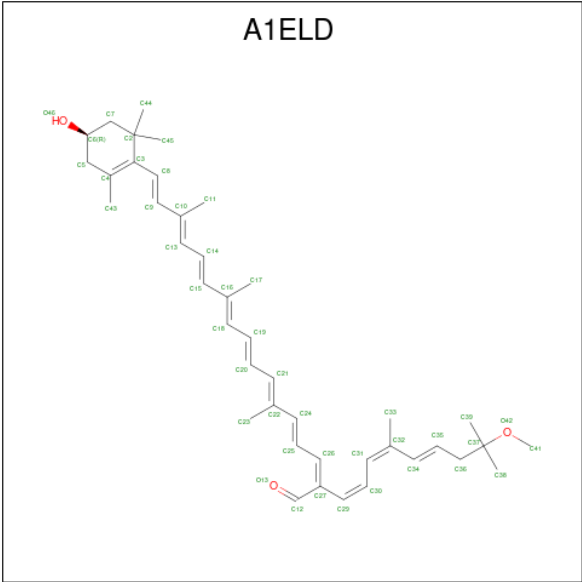
Mol	Chain	Residues	Atoms			AltConf
8	A	1	Total	C	O	0
			43	40	3	

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Mol	Chain	Residues	Atoms			AltConf
8	B	1	Total	C	O	0
			43	40	3	
8	C	1	Total	C	O	0
			43	40	3	
8	D	1	Total	C	O	0
			43	40	3	
8	E	1	Total	C	O	0
			43	40	3	
8	F	1	Total	C	O	0
			43	40	3	
8	G	1	Total	C	O	0
			43	40	3	
8	Q	1	Total	C	O	0
			43	40	3	
8	I	1	Total	C	O	0
			43	40	3	
8	J	1	Total	C	O	0
			43	40	3	
8	K	1	Total	C	O	0
			43	40	3	
8	N	1	Total	C	O	0
			43	40	3	
8	O	1	Total	C	O	0
			43	40	3	
8	P	1	Total	C	O	0
			43	40	3	
8	r	1	Total	C	O	0
			43	40	3	
8	r	1	Total	C	O	0
			43	40	3	

- Molecule 9 is (2 {Z},4 {E},6 {E},8 {E},10 {E},12 {E},14 {E},16 {E})-2-[(1 {Z},3 {Z},5 {E})-8-methoxy-4,8-dimethyl-nona-1,3,5-trienyl]-6,11,15-trimethyl-17-[(4 {R})-2,6,6-trimethyl-4-oxidanyl-cyclohexen-1-yl]heptadeca-2,4,6,8,10,12,14,16-octaenal (CCD ID: A1ELD) (formula: C₄₁H₅₆O₃) (labeled as "Ligand of Interest" by depositor).



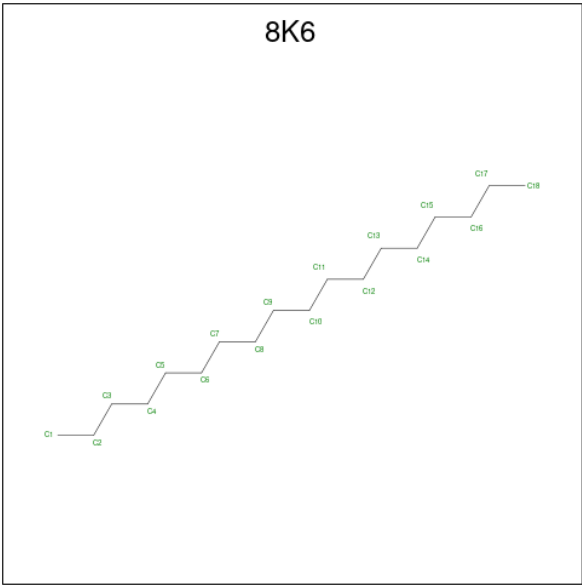
Mol	Chain	Residues	Atoms			AltConf
9	A	1	Total	C	O	0
			44	41	3	
9	B	1	Total	C	O	0
			44	41	3	
9	C	1	Total	C	O	0
			44	41	3	
9	J	1	Total	C	O	0
			44	41	3	
9	R	1	Total	C	O	0
			44	41	3	
9	R	1	Total	C	O	0
			44	41	3	
9	O	1	Total	C	O	0
			44	41	3	
9	b	1	Total	C	O	0
			44	41	3	
9	o	1	Total	C	O	0
			44	41	3	
9	r	1	Total	C	O	0
			44	41	3	
9	j	1	Total	C	O	0
			44	41	3	
9	d	1	Total	C	O	0
			44	41	3	
9	e	1	Total	C	O	0
			44	41	3	
9	f	1	Total	C	O	0
			44	41	3	

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Mol	Chain	Residues	Atoms			AltConf
9	g	1	Total	C	O	0
			44	41	3	
9	q	1	Total	C	O	0
			44	41	3	

- Molecule 10 is Octadecane (CCD ID: 8K6) (formula: C₁₈H₃₈).



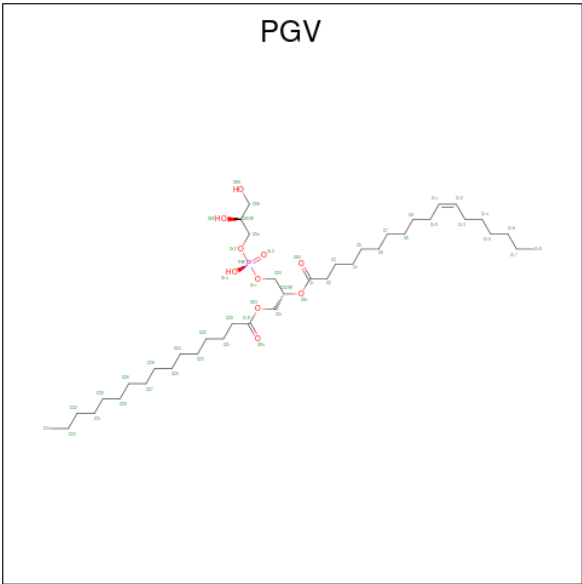
Mol	Chain	Residues	Atoms		AltConf
10	C	1	Total	C	0
			9	9	
10	Q	1	Total	C	0
			18	18	
10	Q	1	Total	C	0
			18	18	
10	S	1	Total	C	0
			13	13	
10	f	1	Total	C	0
			14	14	
10	L	1	Total	C	0
			12	12	
10	L	1	Total	C	0
			14	14	
10	L	1	Total	C	0
			10	10	
10	L	1	Total	C	0
			15	15	

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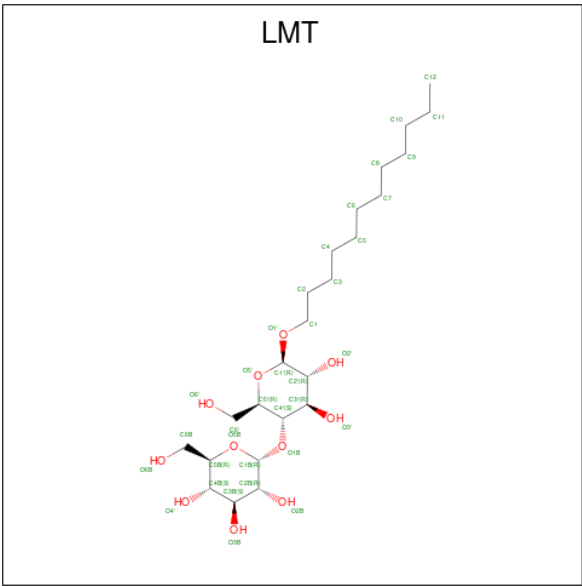
Mol	Chain	Residues	Atoms	AltConf
10	H	1	Total C 18 18	0
10	M	1	Total C 15 15	0

- Molecule 11 is (1R)-2-{{[[(2S)-2,3-DIHYDROXYPROPYL]OXY}(HYDROXY)PHOSPHORYL]OXY}-1-[(PALMITOYLOXY)METHYL]ETHYL (11E)-OCTADEC-11-ENOATE (CCD ID: PGV) (formula: C₄₀H₇₇O₁₀P) (labeled as "Ligand of Interest" by depositor).



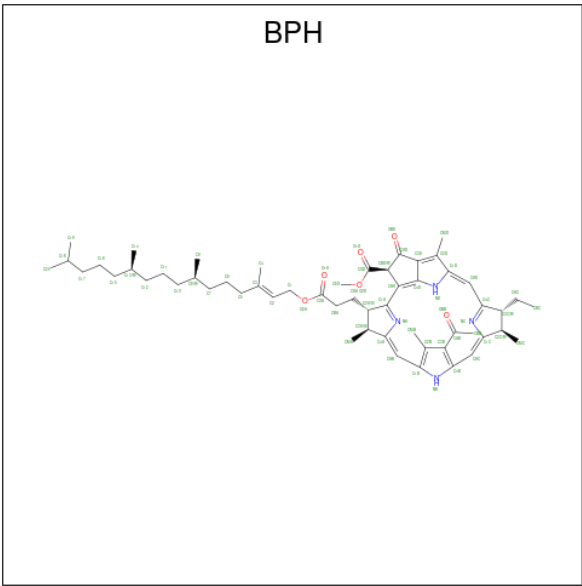
Mol	Chain	Residues	Atoms	AltConf
11	D	1	Total C O P 51 40 10 1	0
11	F	1	Total C O P 51 40 10 1	0
11	G	1	Total C O P 23 14 8 1	0
11	L	1	Total C O P 21 12 8 1	0
11	L	1	Total C O P 29 18 10 1	0
11	M	1	Total C O P 38 29 8 1	0
11	T	1	Total C O 20 16 4	0
11	T	1	Total C O P 30 21 8 1	0

- Molecule 12 is DODECYL-BETA-D-MALTOSE (CCD ID: LMT) (formula: $C_{24}H_{46}O_{11}$).



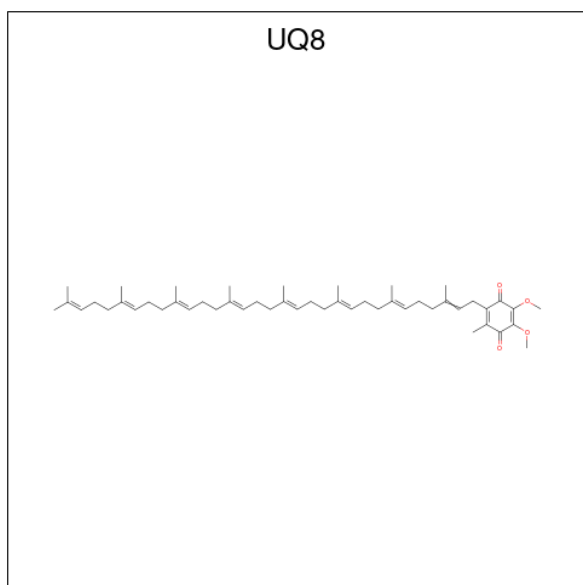
Mol	Chain	Residues	Atoms			AltConf
12	G	1	Total	C	O	0
			30	19	11	
12	N	1	Total	C	O	0
			26	15	11	
12	L	1	Total	C	O	0
			28	17	11	

- Molecule 13 is BACTERIOPHEOPHYTIN A (CCD ID: BPH) (formula: $C_{55}H_{76}N_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
13	L	1	Total	C	N	O	0
			65	55	4	6	
13	L	1	Total	C	N	O	0
			65	55	4	6	

- Molecule 14 is Ubiquinone-8 (CCD ID: UQ8) (formula: C₄₉H₇₄O₄) (labeled as "Ligand of Interest" by depositor).

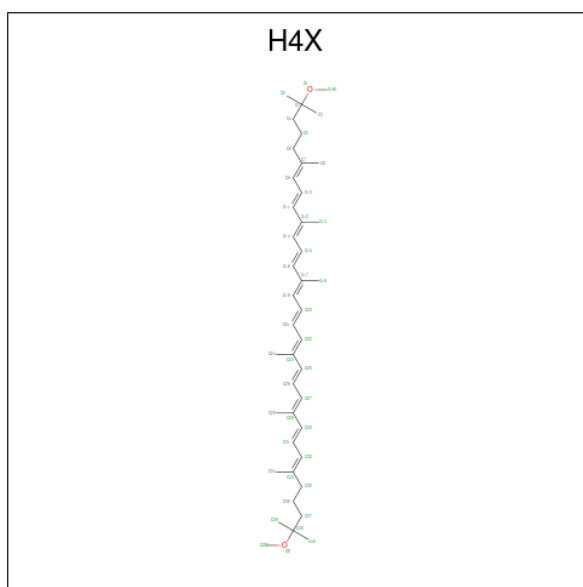


Mol	Chain	Residues	Atoms			AltConf
14	L	1	Total	C	O	0
			19	15	4	
14	L	1	Total	C	O	0
			18	14	4	
14	M	1	Total	C	O	0
			53	49	4	

- Molecule 15 is FE (III) ION (CCD ID: FE) (formula: Fe) (labeled as "Ligand of Interest" by depositor).

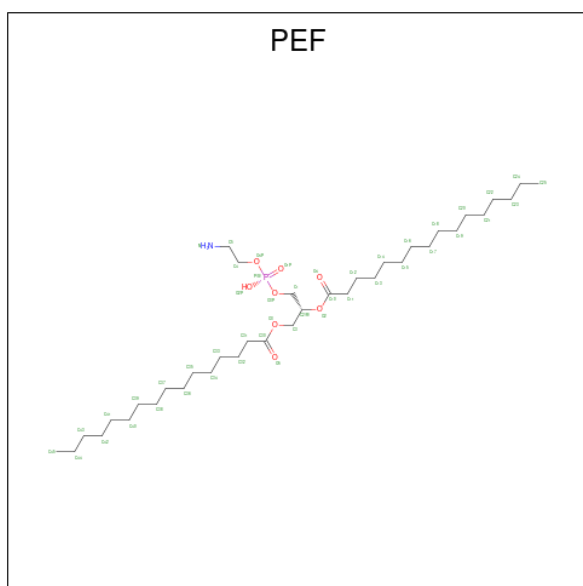
Mol	Chain	Residues	Atoms		AltConf
15	M	1	Total	Fe	0
			1	1	

- Molecule 16 is (6 {E},8 {E},10 {E},12 {E},14 {E},16 {E},18 {E},20 {E},22 {E},24 {E},26 {E})-2,31-dimethoxy-2,6,10,14,19,23,27,31-octamethyl-dotriaconta-6,8,10,12,14,16,18,20,22,24,26-undecaene (CCD ID: H4X) (formula: C₄₂H₆₄O₂) (labeled as "Ligand of Interest" by depositor).



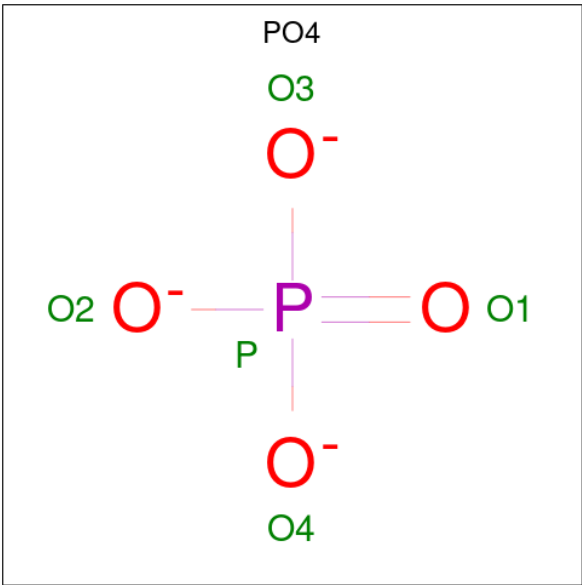
Mol	Chain	Residues	Atoms			AltConf
16	M	1	Total	C	O	0
			44	42	2	

- Molecule 17 is DI-PALMITOYL-3-SN-PHOSPHATIDYLETHANOLAMINE (CCD ID: PEF) (formula: $C_{37}H_{74}NO_8P$).



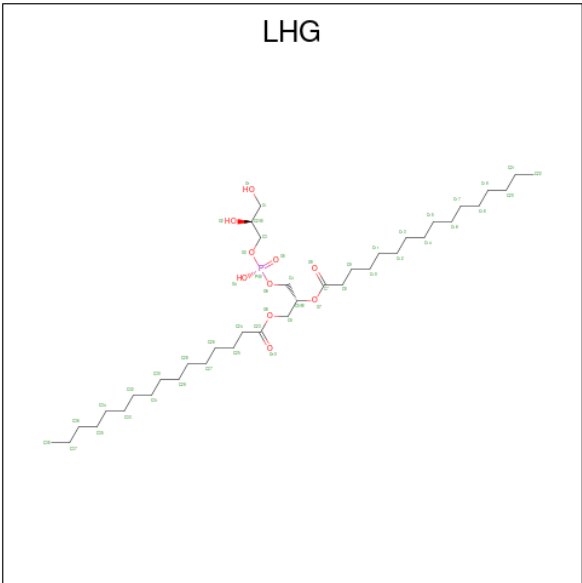
Mol	Chain	Residues	Atoms					AltConf
17	M	1	Total	C	N	O	P	0
			43	33	1	8	1	

- Molecule 18 is PHOSPHATE ION (CCD ID: PO4) (formula: O_4P).



Mol	Chain	Residues	Atoms			AltConf
18	M	1	Total	O	P	0
			5	4	1	

- Molecule 19 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: C₃₈H₇₅O₁₀P) (labeled as "Ligand of Interest" by depositor).

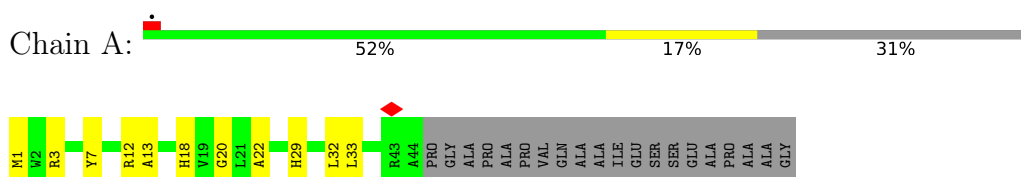


Mol	Chain	Residues	Atoms			AltConf
19	T	1	Total	C	O	0
			10	9	1	

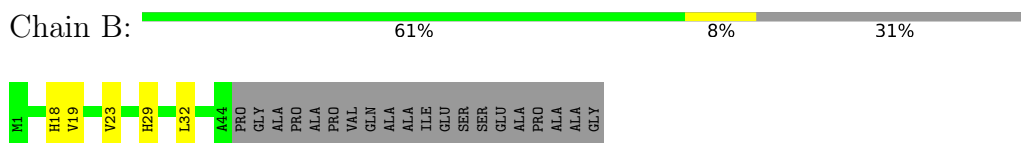
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

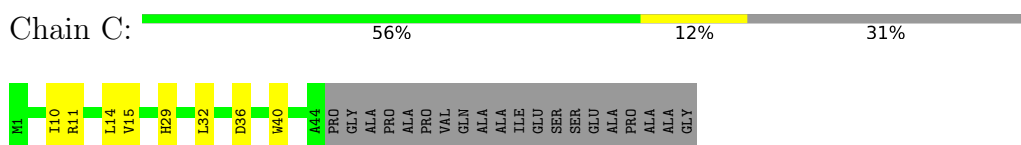
- Molecule 1: Light-harvesting complex 1 alpha chain



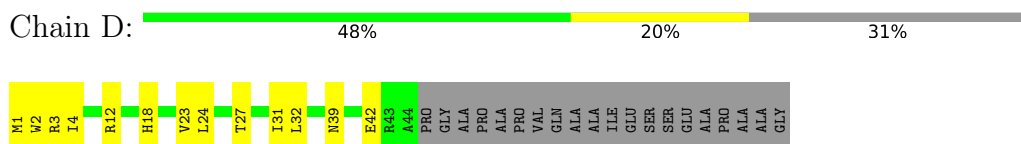
- Molecule 1: Light-harvesting complex 1 alpha chain



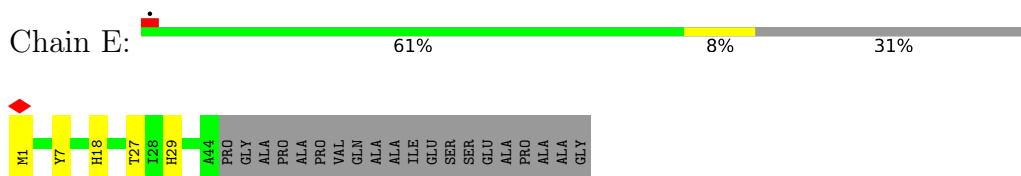
- Molecule 1: Light-harvesting complex 1 alpha chain



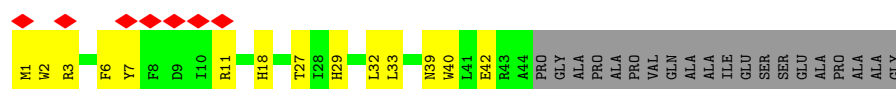
- Molecule 1: Light-harvesting complex 1 alpha chain



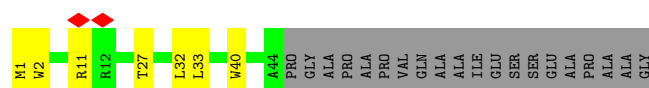
- Molecule 1: Light-harvesting complex 1 alpha chain



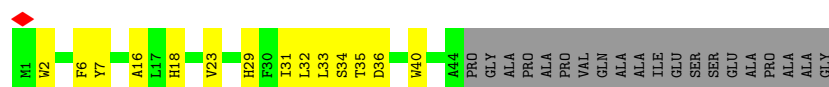
- Molecule 1: Light-harvesting complex 1 alpha chain



- Molecule 1: Light-harvesting complex 1 alpha chain



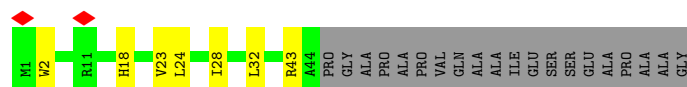
- Molecule 1: Light-harvesting complex 1 alpha chain



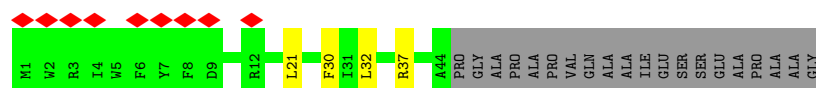
- Molecule 1: Light-harvesting complex 1 alpha chain



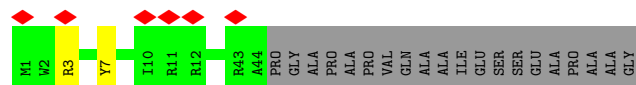
- Molecule 1: Light-harvesting complex 1 alpha chain



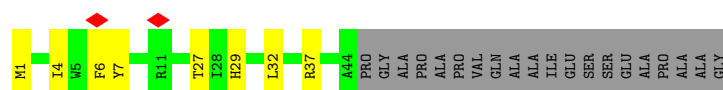
- Molecule 1: Light-harvesting complex 1 alpha chain



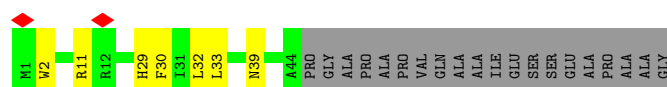
- Molecule 1: Light-harvesting complex 1 alpha chain



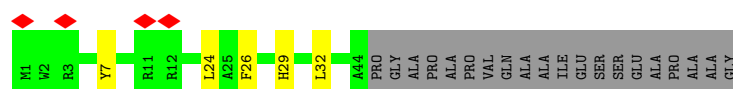
- Molecule 1: Light-harvesting complex 1 alpha chain



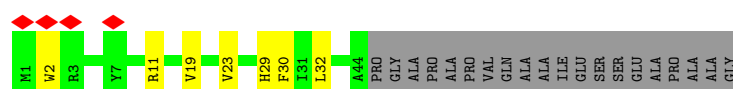
- Molecule 1: Light-harvesting complex 1 alpha chain



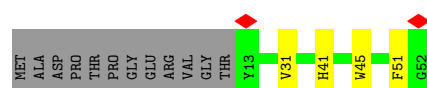
- Molecule 1: Light-harvesting complex 1 alpha chain



- Molecule 1: Light-harvesting complex 1 alpha chain



- Molecule 2: Antenna complex alpha/beta subunit

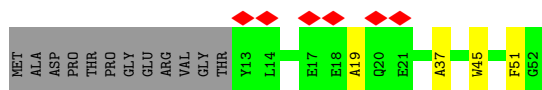


- Molecule 2: Antenna complex alpha/beta subunit

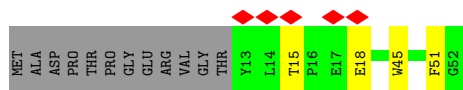


- Molecule 2: Antenna complex alpha/beta subunit

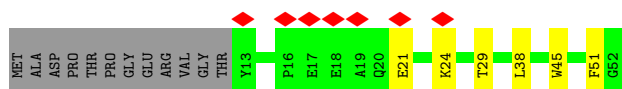




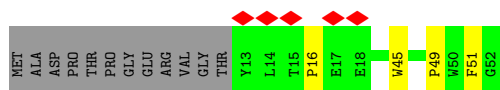
- Molecule 2: Antenna complex alpha/beta subunit



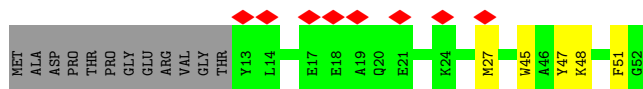
- Molecule 2: Antenna complex alpha/beta subunit



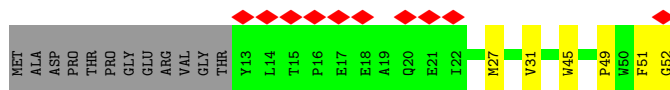
- Molecule 2: Antenna complex alpha/beta subunit



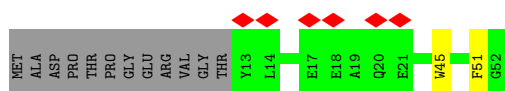
- Molecule 2: Antenna complex alpha/beta subunit



- Molecule 2: Antenna complex alpha/beta subunit



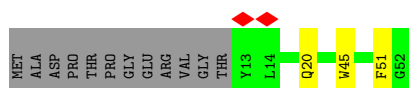
- Molecule 2: Antenna complex alpha/beta subunit



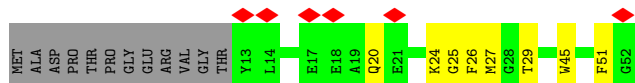
- Molecule 2: Antenna complex alpha/beta subunit



- Molecule 2: Antenna complex alpha/beta subunit



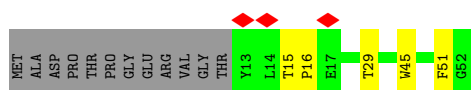
- Molecule 2: Antenna complex alpha/beta subunit



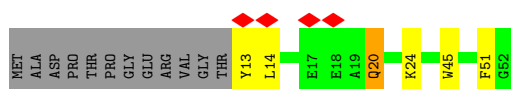
- Molecule 2: Antenna complex alpha/beta subunit



- Molecule 2: Antenna complex alpha/beta subunit



- Molecule 2: Antenna complex alpha/beta subunit



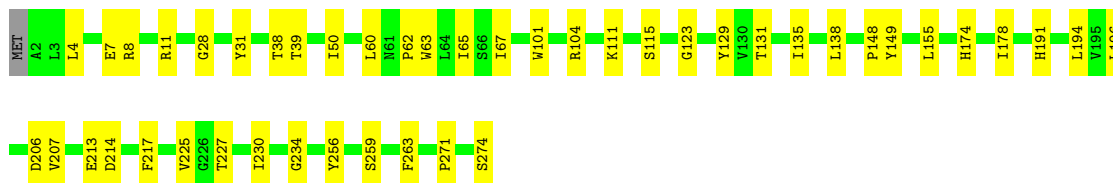
- Molecule 2: Antenna complex alpha/beta subunit





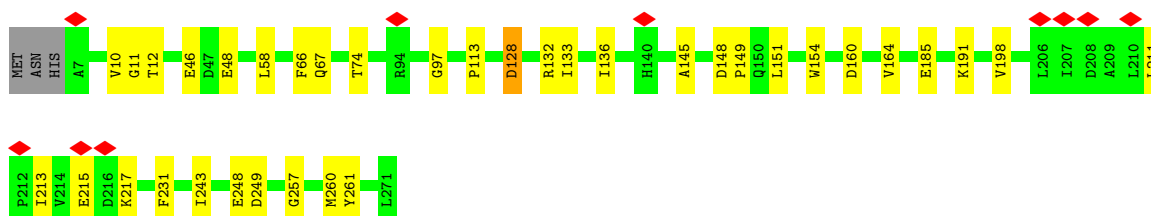
• Molecule 3: Reaction center protein L chain

Chain L: 83% 16%



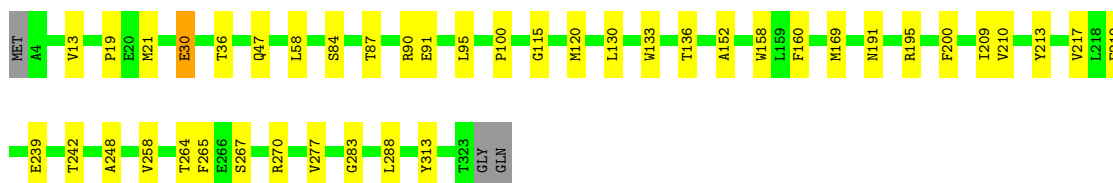
• Molecule 4: Photosynthetic reaction center H subunit

Chain H: 85% 13%



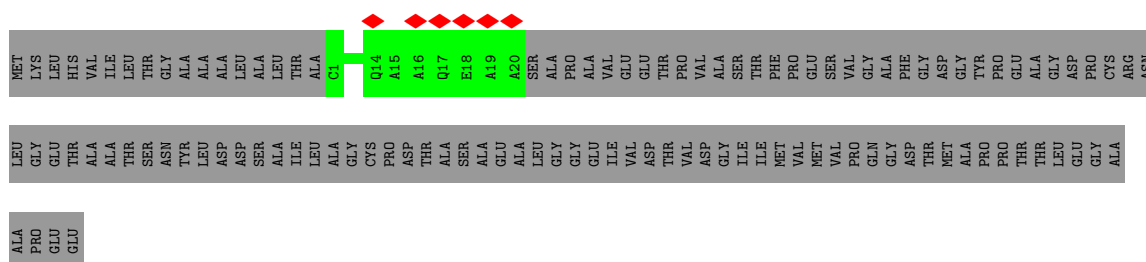
• Molecule 5: Reaction center protein M chain

Chain M: 86% 13%



• Molecule 6: Secreted protein

Chain T: 15% 85%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	210570	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50.5	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	0.894	Depositor
Minimum map value	-0.532	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.019	Depositor
Recommended contour level	0.0961	Depositor
Map size ($\text{\AA}$)	323.2, 323.2, 323.2	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.808, 0.808, 0.808	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: A1ELD, PGV, UQ8, 8K6, BPH, PEF, BCL, PO4, A1EL2, FE, LHG, LMT, H4X

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.12	0/397	0.26	0/540
1	B	0.10	0/397	0.19	0/540
1	C	0.58	0/397	0.87	0/540
1	D	0.09	0/397	0.20	0/540
1	E	0.09	0/397	0.20	0/540
1	F	0.09	0/397	0.25	0/540
1	G	0.09	0/397	0.19	0/540
1	I	0.09	0/397	0.21	0/540
1	J	0.18	0/397	0.27	0/540
1	K	0.54	0/397	0.72	0/540
1	N	0.09	0/397	0.19	0/540
1	O	0.07	0/397	0.18	0/540
1	P	0.19	0/397	0.32	0/540
1	Q	0.09	0/397	0.20	0/540
1	R	0.10	0/397	0.28	0/540
1	S	0.10	0/397	0.28	0/540
2	a	0.14	0/339	0.27	0/462
2	b	0.12	0/339	0.25	0/462
2	c	0.13	0/339	0.26	0/462
2	d	0.11	0/339	0.21	0/462
2	e	0.12	0/339	0.25	0/462
2	f	0.13	0/339	0.28	0/462
2	g	0.13	0/339	0.28	0/462
2	i	0.10	0/339	0.21	0/462
2	j	0.12	0/339	0.24	0/462
2	k	0.11	0/339	0.25	0/462
2	n	0.12	0/339	0.24	0/462
2	o	0.10	0/339	0.21	0/462
2	p	0.11	0/339	0.23	0/462
2	q	0.12	0/339	0.22	0/462
2	r	0.11	0/339	0.26	0/462
2	s	0.11	0/339	0.20	0/462

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	L	0.14	0/2214	0.30	0/3033
4	H	0.23	0/2139	0.36	1/2912 (0.0%)
5	M	0.13	0/2640	0.27	0/3612
6	T	0.06	0/119	0.17	0/161
All	All	0.18	0/18888	0.31	1/25750 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	H	198	VAL	N-CA-C	-5.57	107.30	112.43

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	384	0	389	12	0
1	B	384	0	389	5	0
1	C	384	0	389	8	0
1	D	384	0	389	13	0
1	E	384	0	389	10	0
1	F	384	0	389	16	0
1	G	384	0	389	6	0
1	I	384	0	389	12	0
1	J	384	0	389	10	0
1	K	384	0	389	3	0
1	N	384	0	389	11	0
1	O	384	0	389	5	0
1	P	384	0	389	7	0
1	Q	384	0	389	14	0
1	R	384	0	389	12	0
1	S	384	0	389	7	0
2	a	326	0	317	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	b	326	0	317	3	0
2	c	326	0	317	8	0
2	d	326	0	317	1	0
2	e	326	0	317	8	0
2	f	326	0	317	10	0
2	g	326	0	317	6	0
2	i	326	0	317	2	0
2	j	326	0	317	1	0
2	k	326	0	317	6	0
2	n	326	0	317	4	0
2	o	326	0	317	2	0
2	p	326	0	317	3	0
2	q	326	0	317	3	0
2	r	326	0	317	9	0
2	s	326	0	317	4	0
3	L	2135	0	2086	43	0
4	H	2079	0	2037	25	0
5	M	2543	0	2434	36	0
6	T	120	0	103	0	0
7	A	66	0	74	2	0
7	B	66	0	74	4	0
7	C	66	0	74	5	0
7	D	66	0	74	0	0
7	E	66	0	74	3	0
7	F	66	0	74	3	0
7	G	66	0	74	1	0
7	I	66	0	74	3	0
7	J	66	0	74	1	0
7	K	66	0	74	1	0
7	L	132	0	148	9	0
7	M	132	0	148	4	0
7	N	66	0	74	3	0
7	O	66	0	74	2	0
7	P	66	0	74	3	0
7	Q	66	0	74	1	0
7	R	66	0	74	2	0
7	S	66	0	74	3	0
7	a	66	0	74	4	0
7	b	66	0	74	8	0
7	c	66	0	74	3	0
7	d	66	0	74	4	0
7	e	66	0	74	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	f	66	0	74	5	0
7	g	66	0	74	2	0
7	i	66	0	74	0	0
7	j	66	0	74	2	0
7	k	66	0	74	3	0
7	n	66	0	74	5	0
7	o	66	0	74	4	0
7	p	66	0	74	3	0
7	q	66	0	74	3	0
7	r	66	0	74	2	0
7	s	66	0	74	3	0
8	A	43	0	0	1	0
8	B	43	0	0	1	0
8	C	43	0	0	0	0
8	D	43	0	0	1	0
8	E	43	0	0	1	0
8	F	43	0	0	1	0
8	G	43	0	0	0	0
8	I	43	0	0	4	0
8	J	43	0	0	3	0
8	K	43	0	0	1	0
8	N	43	0	0	0	0
8	O	43	0	0	0	0
8	P	43	0	0	1	0
8	Q	43	0	0	1	0
8	r	86	0	0	9	0
9	A	44	0	0	0	0
9	B	44	0	0	1	0
9	C	44	0	0	0	0
9	J	44	0	0	0	0
9	O	44	0	0	1	0
9	R	88	0	0	23	0
9	b	44	0	0	0	0
9	d	44	0	0	1	0
9	e	44	0	0	7	0
9	f	44	0	0	7	0
9	g	44	0	0	3	0
9	j	44	0	0	0	0
9	o	44	0	0	1	0
9	q	44	0	0	0	0
9	r	44	0	0	1	0
10	C	9	0	14	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	H	18	0	38	0	0
10	L	51	0	92	11	0
10	M	15	0	29	1	0
10	Q	36	0	76	8	0
10	S	13	0	25	1	0
10	f	14	0	27	0	0
11	D	51	0	76	8	0
11	F	51	0	76	4	0
11	G	23	0	21	1	0
11	L	50	0	43	4	0
11	M	38	0	50	3	0
11	T	50	0	54	3	0
12	G	30	0	32	0	0
12	L	28	0	29	2	0
12	N	26	0	24	1	0
13	L	130	0	150	6	0
14	L	37	0	32	6	0
14	M	53	0	74	1	0
15	M	1	0	0	0	0
16	M	44	0	0	0	0
17	M	43	0	62	1	0
18	M	5	0	0	0	0
19	T	10	0	14	3	0
All	All	22831	0	21658	370	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

All (370) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:102:A1ELD:C35	9:R:102:A1ELD:C36	1.76	1.59
9:R:102:A1ELD:C39	9:R:102:A1ELD:C37	1.80	1.59
9:R:102:A1ELD:C39	1:N:33:LEU:CD1	2.15	1.24
9:R:102:A1ELD:C39	1:N:33:LEU:HD11	1.76	1.14
9:R:102:A1ELD:C39	1:N:33:LEU:HD12	1.80	1.11
1:J:18:HIS:NE2	8:J:102:A1EL2:O1	1.87	1.05
1:R:7:TYR:CE2	9:R:102:A1ELD:C45	2.41	1.03
2:g:29:THR:HG21	9:g:101:A1ELD:C13	1.91	1.00
1:R:3:ARG:HB2	9:R:102:A1ELD:C6	1.98	0.92
2:r:47:TYR:CD1	8:r:102:A1EL2:C29	2.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:7:TYR:CD2	9:R:102:A1ELD:C45	2.53	0.91
1:I:18:HIS:NE2	8:I:102:A1EL2:O1	2.06	0.88
8:r:102:A1EL2:C38	2:k:52:GLY:C	2.48	0.87
2:c:13:TYR:CD2	2:c:14:LEU:N	2.43	0.86
1:E:7:TYR:HA	1:F:11:ARG:HH21	1.41	0.85
1:F:18:HIS:NE2	8:F:102:A1EL2:O1	2.09	0.85
1:F:1:MET:HE2	1:F:3:ARG:HG3	1.60	0.84
2:c:13:TYR:CG	2:c:14:LEU:N	2.46	0.83
2:c:13:TYR:CD2	2:c:18:GLU:OE1	2.32	0.82
2:e:29:THR:HG21	9:e:101:A1ELD:C13	2.09	0.82
2:g:29:THR:CG2	9:g:101:A1ELD:C13	2.59	0.80
1:A:18:HIS:NE2	8:A:102:A1EL2:O1	2.15	0.80
1:R:3:ARG:CB	9:R:102:A1ELD:O46	2.31	0.77
9:r:101:A1ELD:O13	8:r:103:A1EL2:C9	2.34	0.76
2:f:29:THR:HG21	9:f:101:A1ELD:C13	2.15	0.75
2:e:29:THR:HG21	9:e:101:A1ELD:C10	2.17	0.74
2:r:47:TYR:CD2	8:r:102:A1EL2:C27	2.69	0.74
10:Q:103:8K6:H51C	5:M:58:LEU:HD21	1.70	0.74
8:r:102:A1EL2:C38	2:k:52:GLY:O	2.35	0.74
1:E:1:MET:SD	9:f:101:A1ELD:C43	2.77	0.73
1:E:7:TYR:HA	1:F:11:ARG:NH2	2.03	0.72
1:A:1:MET:HE1	1:A:3:ARG:HB2	1.70	0.72
2:f:29:THR:HG21	9:f:101:A1ELD:C10	2.20	0.71
2:g:29:THR:HG21	9:g:101:A1ELD:C10	2.20	0.71
3:L:123:GLY:HA3	10:L:312:8K6:H161	1.74	0.69
3:L:227:THR:HA	14:L:304:UQ8:H3MB	1.73	0.69
2:c:13:TYR:CE2	2:c:14:LEU:HB2	2.28	0.69
2:e:29:THR:CG2	9:e:101:A1ELD:C13	2.71	0.68
1:E:1:MET:CE	9:f:101:A1ELD:C43	2.71	0.68
1:R:3:ARG:CB	9:R:102:A1ELD:C6	2.70	0.68
1:I:18:HIS:HE2	8:I:102:A1EL2:C6	2.06	0.68
2:a:13:TYR:HB3	2:a:18:GLU:HG3	1.77	0.67
1:Q:23:VAL:HG21	10:Q:103:8K6:H131	1.77	0.67
1:D:23:VAL:HG22	11:D:103:PGV:H312	1.77	0.66
5:M:191:ASN:O	5:M:195:ARG:HG3	1.95	0.66
2:b:45:TRP:HH2	2:b:51:PHE:HB2	1.60	0.66
2:r:47:TYR:CE2	2:r:48:LYS:HE2	2.30	0.66
1:D:23:VAL:HA	11:D:103:PGV:H291	1.77	0.65
9:R:102:A1ELD:C36	9:R:102:A1ELD:C39	2.68	0.65
1:J:43:ARG:NH1	1:J:43:ARG:HB2	2.11	0.65
1:E:1:MET:HE1	9:f:101:A1ELD:C43	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:15:THR:OG1	2:a:18:GLU:OE2	2.14	0.65
1:R:3:ARG:HB3	9:R:102:A1ELD:O46	1.97	0.64
1:Q:2:TRP:HZ3	1:Q:6:PHE:CZ	2.16	0.64
2:f:29:THR:CG2	9:f:101:A1ELD:C13	2.74	0.64
1:K:37:ARG:NH2	2:k:49:PRO:O	2.31	0.64
1:E:27:THR:HG21	7:F:101:BCL:H202	1.80	0.64
1:F:7:TYR:HB3	1:G:11:ARG:HG2	1.80	0.63
1:J:18:HIS:HE2	8:J:102:A1EL2:C6	2.09	0.63
7:B:101:BCL:H51	9:B:103:A1ELD:C12	2.29	0.63
1:J:18:HIS:CE1	8:J:102:A1EL2:O1	2.52	0.63
1:Q:7:TYR:HB3	1:I:11:ARG:HG2	1.81	0.62
2:f:23:HIS:O	2:f:27:MET:HG2	2.00	0.61
1:J:43:ARG:HB2	1:J:43:ARG:HH11	1.66	0.61
1:N:39:ASN:HD21	12:N:103:LMT:H6'2	1.64	0.61
3:L:274:SER:HB2	5:M:90:ARG:HE	1.65	0.61
13:L:303:BPH:HBB3	13:L:303:BPH:HHC	1.82	0.61
2:c:45:TRP:HH2	2:c:51:PHE:HB2	1.65	0.61
3:L:38:THR:HG22	11:L:308:PGV:H02	1.83	0.60
3:L:138:LEU:HD11	19:T:302:LHG:H251	1.82	0.60
2:d:45:TRP:HH2	2:d:51:PHE:HB2	1.66	0.60
3:L:104:ARG:NH2	5:M:258:VAL:O	2.32	0.60
1:C:15:VAL:HG21	10:L:313:8K6:H91C	1.84	0.60
3:L:225:VAL:H	14:L:304:UQ8:H8	1.66	0.60
1:S:7:TYR:HB3	1:N:11:ARG:HG2	1.84	0.59
1:E:7:TYR:O	1:F:11:ARG:NE	2.35	0.59
1:I:19:VAL:O	1:I:23:VAL:HG23	2.03	0.59
2:k:45:TRP:HH2	2:k:51:PHE:HB2	1.67	0.59
3:L:31:TYR:O	3:L:104:ARG:NH1	2.36	0.59
2:s:45:TRP:HH2	2:s:51:PHE:HB2	1.68	0.58
2:e:45:TRP:HH2	2:e:51:PHE:HB2	1.68	0.58
1:F:27:THR:HG23	11:F:103:PGV:H242	1.84	0.58
2:o:45:TRP:HH2	2:o:51:PHE:HB2	1.69	0.58
4:H:145:ALA:HB3	4:H:148:ASP:HB2	1.86	0.57
2:f:15:THR:HG23	2:f:18:GLU:HB2	1.87	0.57
1:O:7:TYR:HB3	1:P:11:ARG:HG2	1.87	0.57
2:c:13:TYR:CE2	2:c:18:GLU:OE1	2.58	0.57
2:a:14:LEU:HD23	2:a:15:THR:HG23	1.86	0.56
1:I:30:PHE:HB3	5:M:120:MET:HE2	1.87	0.56
4:H:211:LEU:HB3	4:H:213:ILE:HG12	1.87	0.56
7:b:102:BCL:H3A	7:b:102:BCL:H52	1.87	0.56
2:i:45:TRP:HH2	2:i:51:PHE:HB2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n:45:TRP:HH2	2:n:51:PHE:HB2	1.71	0.56
1:K:21:LEU:HD23	7:R:101:BCL:H142	1.86	0.56
1:Q:18:HIS:NE2	8:Q:102:A1EL2:O1	2.36	0.55
2:n:38:LEU:HD22	7:n:101:BCL:H93	1.88	0.55
2:r:47:TYR:CG	8:r:102:A1EL2:C27	2.90	0.55
2:r:47:TYR:CG	8:r:102:A1EL2:C29	2.89	0.55
3:L:28:GLY:H	10:L:313:8K6:H42C	1.72	0.55
7:C:101:BCL:HBC3	2:c:44:MET:HE2	1.89	0.55
3:L:230:ILE:HG21	14:L:304:UQ8:H3MA	1.87	0.55
1:J:18:HIS:HD2	7:J:101:BCL:H41	1.71	0.55
1:N:11:ARG:NE	4:H:215:GLU:OE1	2.39	0.54
1:J:32:LEU:HD11	7:j:102:BCL:HHD	1.90	0.54
5:M:160:PHE:HD1	7:M:403:BCL:HBB1	1.71	0.54
1:Q:16:ALA:HA	10:Q:103:8K6:H71C	1.89	0.54
2:q:45:TRP:HH2	2:q:51:PHE:HB2	1.71	0.54
2:j:45:TRP:HH2	2:j:51:PHE:HB2	1.73	0.54
1:R:3:ARG:HB2	9:R:102:A1ELD:C5	2.38	0.53
3:L:196:LEU:HD21	5:M:270:ARG:HG2	1.90	0.53
10:Q:103:8K6:H151	5:M:130:LEU:HB3	1.91	0.53
2:a:45:TRP:HH2	2:a:51:PHE:HB2	1.73	0.53
9:R:102:A1ELD:C39	9:R:102:A1ELD:C38	2.74	0.53
2:g:45:TRP:HH2	2:g:51:PHE:HB2	1.74	0.53
1:R:3:ARG:HB2	9:R:102:A1ELD:O46	2.01	0.53
2:e:25:GLY:O	2:e:29:THR:HG22	2.07	0.53
1:D:12:ARG:HB3	4:H:58:LEU:HG	1.91	0.52
3:L:206:ASP:OD1	4:H:67:GLN:NE2	2.30	0.52
1:C:10:ILE:CD1	1:C:14:LEU:HD13	2.39	0.52
2:f:45:TRP:HH2	2:f:51:PHE:HB2	1.74	0.52
2:r:47:TYR:HD1	8:r:102:A1EL2:C36	2.23	0.52
1:K:32:LEU:HD11	7:k:101:BCL:HHD	1.92	0.52
5:M:133:TRP:O	5:M:136:THR:HG22	2.10	0.52
2:r:27:MET:HA	2:r:27:MET:HE3	1.91	0.52
9:R:102:A1ELD:C36	1:N:29:HIS:HB3	2.40	0.52
3:L:234:GLY:HA3	5:M:219:PHE:CE1	2.45	0.52
19:T:302:LHG:H271	11:T:303:PGV:H231	1.92	0.52
2:p:45:TRP:HH2	2:p:51:PHE:HB2	1.75	0.51
1:B:18:HIS:NE2	8:B:102:A1EL2:O1	2.38	0.51
1:I:18:HIS:HE2	8:I:102:A1EL2:C5	2.22	0.51
1:D:24:LEU:HD23	7:d:102:BCL:HED3	1.93	0.51
1:I:18:HIS:CE1	8:I:102:A1EL2:O1	2.62	0.51
13:L:303:BPH:NC	5:M:217:VAL:HG22	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:a:101:BCL:H92	7:a:101:BCL:HBA2	1.92	0.51
10:Q:104:8K6:H182	10:Q:104:8K6:H102	1.93	0.51
1:R:7:TYR:CE2	9:R:102:A1ELD:C7	2.94	0.51
2:a:20:GLN:O	2:a:24:LYS:HG2	2.11	0.51
2:r:45:TRP:HH2	2:r:51:PHE:HB2	1.76	0.51
2:o:15:THR:HG23	2:o:18:GLU:H	1.76	0.51
1:E:7:TYR:O	1:F:11:ARG:CZ	2.59	0.51
1:D:18:HIS:NE2	8:D:102:A1EL2:O1	2.36	0.50
1:C:36:ASP:OD2	10:C:104:8K6:H112	2.11	0.50
1:G:2:TRP:H	1:G:2:TRP:CD1	2.29	0.50
3:L:256:TYR:OH	3:L:259:SER:O	2.25	0.50
1:D:3:ARG:HB3	9:e:101:A1ELD:O46	2.12	0.50
5:M:19:PRO:HB2	5:M:21:MET:CE	2.42	0.50
1:B:32:LEU:HD11	7:b:102:BCL:HHD	1.94	0.49
2:k:27:MET:O	2:k:31:VAL:HG23	2.12	0.49
1:G:1:MET:HE3	1:G:1:MET:HA	1.93	0.49
8:P:102:A1EL2:C9	9:o:101:A1ELD:O13	2.60	0.49
3:L:194:LEU:HD23	14:L:304:UQ8:C3	2.41	0.49
7:L:302:BCL:HAA1	5:M:210:VAL:HG22	1.95	0.49
2:q:20:GLN:O	2:q:24:LYS:HG3	2.13	0.49
5:M:248:ALA:HA	5:M:265:PHE:CE1	2.47	0.49
1:Q:2:TRP:CZ3	1:Q:6:PHE:CE2	3.01	0.49
3:L:207:VAL:HG11	5:M:242:THR:HG21	1.95	0.49
7:B:101:BCL:H151	1:P:23:VAL:HB	1.95	0.48
1:C:10:ILE:HD12	1:C:14:LEU:HD13	1.95	0.48
5:M:100:PRO:HG3	5:M:115:GLY:HA3	1.94	0.48
2:b:45:TRP:CH2	2:b:51:PHE:HB2	2.46	0.48
1:O:24:LEU:HB2	7:P:101:BCL:H122	1.95	0.48
3:L:191:HIS:HA	14:L:304:UQ8:H1M	1.95	0.48
4:H:113:PRO:HB2	4:H:257:GLY:HA2	1.95	0.48
4:H:128:ASP:OD1	4:H:128:ASP:N	2.32	0.48
9:R:102:A1ELD:C35	9:R:102:A1ELD:C37	2.74	0.48
1:N:2:TRP:CD1	1:N:2:TRP:H	2.31	0.47
11:D:103:PGV:H183	3:L:50:ILE:HD12	1.95	0.47
2:g:45:TRP:CH2	2:g:51:PHE:HB2	2.49	0.47
3:L:129:TYR:CD1	7:L:302:BCL:HBB1	2.49	0.47
3:L:148:PRO:HG3	5:M:313:TYR:CE1	2.50	0.47
4:H:185:GLU:HB2	4:H:191:LYS:HD3	1.96	0.47
1:S:32:LEU:HD11	7:s:101:BCL:HHD	1.96	0.47
3:L:131:THR:HA	3:L:135:ILE:HB	1.96	0.47
7:F:101:BCL:H62	7:F:101:BCL:H41	1.64	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:194:LEU:HD21	3:L:213:GLU:HB3	1.97	0.47
4:H:12:THR:HB	17:M:407:PEF:H52	1.96	0.47
4:H:66:PHE:O	4:H:74:THR:HA	2.14	0.47
3:L:263:PHE:HA	12:L:309:LMT:H3'	1.97	0.47
2:f:25:GLY:O	2:f:29:THR:HG22	2.14	0.47
2:f:29:THR:HG21	9:f:101:A1ELD:C9	2.45	0.47
1:G:32:LEU:HD11	7:g:102:BCL:HHD	1.96	0.46
7:s:101:BCL:H2	7:s:101:BCL:H61	1.54	0.46
3:L:39:THR:HG21	3:L:101:TRP:HE3	1.80	0.46
4:H:149:PRO:HB3	4:H:154:TRP:CH2	2.51	0.46
4:H:243:ILE:HG12	4:H:248:GLU:HG3	1.97	0.46
7:L:301:BCL:H2	13:L:303:BPH:HHC	1.97	0.46
1:F:42:GLU:CD	4:H:11:GLY:H	2.24	0.46
3:L:8:ARG:NH2	4:H:46:GLU:OE1	2.48	0.46
3:L:50:ILE:HD13	3:L:67:ILE:HG13	1.98	0.46
5:M:19:PRO:HG3	5:M:36:THR:HG21	1.97	0.46
1:N:32:LEU:HD11	7:n:101:BCL:HHD	1.98	0.46
2:r:47:TYR:CD1	8:r:102:A1EL2:C30	2.99	0.46
1:D:27:THR:HG21	7:E:101:BCL:H202	1.97	0.46
7:O:101:BCL:H61	7:O:101:BCL:H41	1.53	0.46
3:L:256:TYR:HD1	10:L:311:8K6:H131	1.79	0.46
1:F:32:LEU:HD11	7:f:102:BCL:HHD	1.96	0.46
1:F:33:LEU:HG	1:F:40:TRP:CH2	2.51	0.46
4:H:151:LEU:HD11	5:M:13:VAL:HG21	1.97	0.46
1:P:2:TRP:HB2	2:p:19:ALA:HB1	1.98	0.46
7:p:101:BCL:H102	7:p:101:BCL:H61	1.49	0.46
1:A:1:MET:SD	1:A:3:ARG:HG3	2.55	0.46
1:A:32:LEU:HD11	7:a:101:BCL:HHD	1.98	0.46
7:P:101:BCL:H71	7:P:101:BCL:H112	1.59	0.46
7:a:101:BCL:HBA1	7:a:101:BCL:H3A	1.42	0.46
2:e:20:GLN:O	2:e:24:LYS:HG3	2.15	0.46
3:L:155:LEU:HD23	5:M:200:PHE:HB3	1.98	0.46
7:L:302:BCL:H11	7:L:302:BCL:H51	1.78	0.46
5:M:152:ALA:HA	5:M:277:VAL:HG22	1.99	0.46
5:M:213:TYR:O	5:M:217:VAL:HG23	2.15	0.45
1:B:23:VAL:HG21	11:L:308:PGV:H22	1.99	0.45
1:Q:23:VAL:HG12	7:I:101:BCL:H161	1.99	0.45
7:Q:101:BCL:H112	7:Q:101:BCL:H152	1.63	0.45
1:I:12:ARG:NH1	5:M:30:GLU:OE2	2.50	0.45
7:I:101:BCL:H61	7:I:101:BCL:H2	1.68	0.45
3:L:214:ASP:OD1	5:M:47:GLN:NE2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:ALA:HA	10:L:313:8K6:H131	1.96	0.45
1:B:29:HIS:CE1	7:b:102:BCL:HMD3	2.52	0.45
1:D:2:TRP:CD1	1:D:2:TRP:H	2.35	0.45
1:Q:2:TRP:CZ3	1:Q:6:PHE:CZ	3.01	0.45
1:J:23:VAL:HG12	7:K:101:BCL:H13	1.99	0.45
3:L:62:PRO:HA	3:L:65:ILE:HD12	1.99	0.45
5:M:283:GLY:HA2	7:M:401:BCL:HED2	1.99	0.45
11:D:103:PGV:H131	11:D:103:PGV:H102	1.69	0.45
7:S:101:BCL:H162	7:S:101:BCL:H193	1.75	0.45
7:e:102:BCL:H61	7:e:102:BCL:H93	1.78	0.45
7:E:101:BCL:H62	7:E:101:BCL:H41	1.72	0.45
1:O:29:HIS:CE1	7:o:102:BCL:HMD1	2.52	0.45
1:A:20:GLY:HA3	7:C:101:BCL:H102	1.98	0.45
7:B:101:BCL:H171	7:B:101:BCL:H13	1.78	0.45
1:Q:36:ASP:OD1	10:Q:104:8K6:H162	2.16	0.45
7:N:101:BCL:H61	7:N:101:BCL:H2	1.61	0.45
7:n:101:BCL:H92	7:n:101:BCL:H61	1.78	0.45
13:L:305:BPH:HMB2	7:M:403:BCL:H51	1.99	0.45
1:E:18:HIS:NE2	8:E:102:A1EL2:O1	2.43	0.45
1:E:29:HIS:CE1	7:e:102:BCL:HMD1	2.51	0.45
1:S:27:THR:HA	10:S:102:8K6:H92C	1.98	0.45
1:S:37:ARG:NH2	2:s:49:PRO:O	2.47	0.45
2:e:26:PHE:HD2	2:e:27:MET:HE2	1.82	0.45
1:D:1:MET:SD	1:D:3:ARG:NH2	2.86	0.44
11:F:103:PGV:H101	11:F:103:PGV:H272	1.99	0.44
7:P:101:BCL:HED2	2:p:37:ALA:HB2	2.00	0.44
7:r:104:BCL:H2	7:r:104:BCL:H61	1.63	0.44
7:d:102:BCL:H2	7:d:102:BCL:H61	1.72	0.44
13:L:303:BPH:H141	13:L:303:BPH:H161	1.75	0.44
8:K:102:A1EL2:C40	7:j:102:BCL:H52	2.48	0.44
3:L:11:ARG:HH12	10:L:313:8K6:H11C	1.82	0.44
1:D:39:ASN:OD1	1:D:42:GLU:HG2	2.16	0.44
2:a:24:LYS:HA	2:a:24:LYS:HD3	1.88	0.44
7:c:101:BCL:H61	7:c:101:BCL:H2	1.78	0.44
5:M:264:THR:H	5:M:267:SER:HB3	1.82	0.44
1:A:1:MET:HE3	1:A:1:MET:HB3	1.80	0.44
1:D:32:LEU:HD11	7:d:102:BCL:HHD	1.99	0.44
1:Q:32:LEU:HD11	7:q:102:BCL:HHD	2.00	0.44
1:N:29:HIS:CE1	7:n:101:BCL:HMD3	2.52	0.44
7:b:102:BCL:H13	7:b:102:BCL:H172	1.81	0.44
2:s:45:TRP:CH2	2:s:51:PHE:HB2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:102:BCL:H62	7:g:102:BCL:H41	1.53	0.44
11:F:103:PGV:H102	11:F:103:PGV:H131	1.79	0.44
11:F:103:PGV:H11	7:G:101:BCL:H171	2.00	0.44
7:R:101:BCL:H141	7:R:101:BCL:H161	1.63	0.44
2:c:13:TYR:HD2	2:c:15:THR:H	1.63	0.44
10:L:313:8K6:H22C	4:H:97:GLY:CA	2.47	0.44
5:M:158:TRP:CZ2	11:M:408:PGV:H162	2.53	0.44
7:B:101:BCL:HBD	7:B:101:BCL:HBA2	2.00	0.44
9:R:102:A1ELD:C12	7:N:101:BCL:H72	2.48	0.43
1:O:32:LEU:HD11	7:o:102:BCL:HHH	1.99	0.43
7:L:302:BCL:HHH	7:L:302:BCL:HBB2	2.00	0.43
7:M:403:BCL:H51	7:M:403:BCL:H11	1.85	0.43
7:C:101:BCL:H111	7:C:101:BCL:H142	1.73	0.43
1:F:2:TRP:H	1:F:2:TRP:CD1	2.35	0.43
7:L:302:BCL:HMD2	5:M:209:ILE:HD13	2.00	0.43
4:H:217:LYS:HD2	4:H:217:LYS:HA	1.63	0.43
19:T:302:LHG:H242	11:T:303:PGV:H212	2.00	0.43
1:S:1:MET:O	1:S:4:ILE:HG22	2.19	0.43
3:L:60:LEU:HD23	3:L:60:LEU:HA	1.84	0.43
1:G:27:THR:HA	11:G:103:PGV:H241	1.99	0.43
2:n:21:GLU:HA	2:n:24:LYS:HG2	2.00	0.43
1:R:3:ARG:HD2	9:R:102:A1ELD:O46	2.18	0.43
3:L:174:HIS:CE1	3:L:178:ILE:HD11	2.53	0.43
1:Q:33:LEU:HG	1:Q:40:TRP:CH2	2.54	0.43
2:b:41:HIS:CD2	7:b:102:BCL:H122	2.54	0.43
7:d:102:BCL:H141	7:d:102:BCL:H162	1.80	0.43
12:L:309:LMT:O2'	10:L:311:8K6:H132	2.19	0.43
5:M:91:GLU:O	5:M:95:LEU:HG	2.18	0.43
1:I:31:ILE:HG13	5:M:120:MET:HE1	2.00	0.43
9:R:102:A1ELD:C41	1:N:30:PHE:CD1	3.02	0.43
7:k:101:BCL:H2	7:k:101:BCL:H62	1.60	0.43
5:M:288:LEU:HD23	10:M:406:8K6:H12C	2.00	0.43
10:Q:104:8K6:H182	10:Q:104:8K6:H132	2.01	0.43
1:J:2:TRP:CD1	1:J:2:TRP:H	2.36	0.43
2:k:45:TRP:CH2	2:k:51:PHE:HB2	2.50	0.43
7:f:102:BCL:H62	7:f:102:BCL:H41	1.83	0.43
4:H:132:ARG:HH12	5:M:239:GLU:CD	2.26	0.43
5:M:169:MET:HE3	5:M:169:MET:HB3	1.93	0.43
7:S:101:BCL:H2	7:S:101:BCL:H62	1.58	0.42
3:L:217:PHE:CG	14:L:304:UQ8:H7	2.54	0.42
7:b:102:BCL:H72	7:b:102:BCL:H112	1.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:f:102:BCL:H162	7:f:102:BCL:H122	1.70	0.42
7:q:102:BCL:H111	7:q:102:BCL:H72	1.94	0.42
11:M:408:PGV:H131	11:M:408:PGV:H102	1.78	0.42
5:M:267:SER:HA	5:M:270:ARG:HG3	2.00	0.42
7:C:101:BCL:H112	7:C:101:BCL:H72	1.73	0.42
3:L:271:PRO:HD3	10:L:310:8K6:H111	2.02	0.42
4:H:160:ASP:OD1	4:H:160:ASP:N	2.47	0.42
1:Q:34:SER:HA	10:Q:104:8K6:H121	2.01	0.42
1:P:19:VAL:O	1:P:23:VAL:HG23	2.20	0.42
7:o:102:BCL:H141	7:o:102:BCL:H162	1.83	0.42
7:k:101:BCL:H141	7:k:101:BCL:H162	1.87	0.42
7:n:101:BCL:H162	7:n:101:BCL:H203	1.74	0.42
1:R:7:TYR:HE2	9:R:102:A1ELD:C6	2.32	0.42
7:A:101:BCL:H143	11:L:308:PGV:H031	2.02	0.42
1:C:29:HIS:CE1	7:c:101:BCL:HMD1	2.55	0.42
7:r:104:BCL:H112	7:r:104:BCL:H72	1.89	0.42
3:L:4:LEU:HB2	3:L:7:GLU:HB2	2.01	0.42
3:L:111:LYS:HA	4:H:260:MET:HE1	2.02	0.42
1:Q:31:ILE:O	1:Q:35:THR:HG23	2.20	0.42
4:H:113:PRO:HD2	4:H:261:TYR:CE2	2.54	0.42
1:F:39:ASN:HD21	4:H:10:VAL:HB	1.85	0.42
11:D:103:PGV:H32	3:L:62:PRO:HG2	2.00	0.41
7:N:101:BCL:H112	7:N:101:BCL:H152	1.62	0.41
1:A:12:ARG:HH12	10:L:313:8K6:H31C	1.84	0.41
1:A:33:LEU:HD23	1:A:33:LEU:HA	1.94	0.41
7:E:101:BCL:H51	9:d:101:A1ELD:C12	2.51	0.41
1:F:33:LEU:O	1:F:39:ASN:ND2	2.52	0.41
1:S:29:HIS:CE1	7:s:101:BCL:HMD1	2.56	0.41
1:P:29:HIS:CE1	7:p:101:BCL:HMD1	2.56	0.41
7:b:102:BCL:H52	7:b:102:BCL:H8	1.75	0.41
3:L:8:ARG:NH1	4:H:48:GLU:O	2.54	0.41
3:L:11:ARG:HH12	10:L:313:8K6:C1	2.34	0.41
1:C:40:TRP:HE1	7:C:101:BCL:HBB2	1.85	0.41
1:P:30:PHE:HB3	11:T:303:PGV:H202	2.02	0.41
7:I:101:BCL:H143	7:I:101:BCL:H162	1.94	0.41
7:b:102:BCL:H143	7:b:102:BCL:H111	1.88	0.41
2:f:34:VAL:HG22	7:f:102:BCL:H43	2.02	0.41
1:I:2:TRP:CD1	1:I:2:TRP:H	2.38	0.41
1:O:26:PHE:CZ	7:O:101:BCL:H162	2.55	0.41
9:O:102:A1ELD:C13	2:n:29:THR:HB	2.50	0.41
2:e:29:THR:HG21	9:e:101:A1ELD:C9	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:32:LEU:HD11	7:c:101:BCL:HHD	2.01	0.41
1:A:22:ALA:HB2	7:A:101:BCL:H51	2.03	0.41
1:A:29:HIS:CE1	7:a:101:BCL:HMD1	2.56	0.41
1:D:31:ILE:HA	11:D:103:PGV:H201	2.02	0.41
11:D:103:PGV:H221	11:L:307:PGV:H32	2.03	0.41
1:F:6:PHE:HZ	2:f:16:PRO:HA	1.86	0.41
7:F:101:BCL:H51	9:e:101:A1ELD:C12	2.51	0.41
1:I:1:MET:O	1:I:4:ILE:HG22	2.20	0.41
1:S:6:PHE:HZ	2:s:16:PRO:HA	1.86	0.41
1:P:32:LEU:HD11	7:p:101:BCL:HHD	2.02	0.41
2:g:15:THR:HA	2:g:16:PRO:HD3	1.96	0.41
7:L:302:BCL:H61	14:M:402:UQ8:H20	2.02	0.41
1:A:7:TYR:HB3	1:C:11:ARG:HG2	2.02	0.41
1:B:19:VAL:O	1:B:23:VAL:HG23	2.21	0.41
1:Q:29:HIS:CE1	7:q:102:BCL:HMD1	2.56	0.41
11:D:103:PGV:H61	3:L:63:TRP:CZ2	2.56	0.40
1:I:37:ARG:NH2	2:i:49:PRO:O	2.53	0.40
7:o:102:BCL:HBA1	7:o:102:BCL:H3A	1.71	0.40
2:q:13:TYR:CE2	2:q:14:LEU:HD13	2.56	0.40
4:H:215:GLU:HG3	4:H:217:LYS:HG2	2.03	0.40
4:H:164:VAL:HG21	4:H:231:PHE:CG	2.57	0.40
1:F:29:HIS:CE1	7:f:102:BCL:HMD1	2.57	0.40
7:S:101:BCL:H143	7:S:101:BCL:H111	1.66	0.40
3:L:129:TYR:HD1	7:L:302:BCL:HBB1	1.86	0.40
7:L:301:BCL:H152	13:L:303:BPH:H3A	2.03	0.40
5:M:270:ARG:NH2	11:M:408:PGV:O14	2.54	0.40
1:D:4:ILE:HD12	9:e:101:A1ELD:C45	2.52	0.40
1:G:33:LEU:HG	1:G:40:TRP:CH2	2.57	0.40
1:R:7:TYR:HE2	9:R:102:A1ELD:C7	2.34	0.40
1:J:24:LEU:O	1:J:28:ILE:HG13	2.21	0.40
3:L:67:ILE:HB	3:L:149:TYR:HB2	2.03	0.40
5:M:84:SER:HB3	5:M:87:THR:HB	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM

entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	42/64 (66%)	42 (100%)	0	0	100	100
1	B	42/64 (66%)	42 (100%)	0	0	100	100
1	C	42/64 (66%)	42 (100%)	0	0	100	100
1	D	42/64 (66%)	42 (100%)	0	0	100	100
1	E	42/64 (66%)	42 (100%)	0	0	100	100
1	F	42/64 (66%)	42 (100%)	0	0	100	100
1	G	42/64 (66%)	42 (100%)	0	0	100	100
1	I	42/64 (66%)	42 (100%)	0	0	100	100
1	J	42/64 (66%)	42 (100%)	0	0	100	100
1	K	42/64 (66%)	41 (98%)	1 (2%)	0	100	100
1	N	42/64 (66%)	42 (100%)	0	0	100	100
1	O	42/64 (66%)	42 (100%)	0	0	100	100
1	P	42/64 (66%)	42 (100%)	0	0	100	100
1	Q	42/64 (66%)	42 (100%)	0	0	100	100
1	R	42/64 (66%)	42 (100%)	0	0	100	100
1	S	42/64 (66%)	42 (100%)	0	0	100	100
2	a	38/52 (73%)	37 (97%)	1 (3%)	0	100	100
2	b	38/52 (73%)	38 (100%)	0	0	100	100
2	c	38/52 (73%)	38 (100%)	0	0	100	100
2	d	38/52 (73%)	38 (100%)	0	0	100	100
2	e	38/52 (73%)	38 (100%)	0	0	100	100
2	f	38/52 (73%)	38 (100%)	0	0	100	100
2	g	38/52 (73%)	37 (97%)	1 (3%)	0	100	100
2	i	38/52 (73%)	37 (97%)	1 (3%)	0	100	100
2	j	38/52 (73%)	37 (97%)	1 (3%)	0	100	100
2	k	38/52 (73%)	37 (97%)	1 (3%)	0	100	100
2	n	38/52 (73%)	38 (100%)	0	0	100	100
2	o	38/52 (73%)	38 (100%)	0	0	100	100
2	p	38/52 (73%)	37 (97%)	1 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	q	38/52 (73%)	37 (97%)	1 (3%)	0	100	100
2	r	38/52 (73%)	38 (100%)	0	0	100	100
2	s	38/52 (73%)	37 (97%)	1 (3%)	0	100	100
3	L	271/274 (99%)	268 (99%)	3 (1%)	0	100	100
4	H	263/268 (98%)	258 (98%)	5 (2%)	0	100	100
5	M	318/323 (98%)	314 (99%)	4 (1%)	0	100	100
6	T	18/135 (13%)	18 (100%)	0	0	100	100
All	All	2150/2856 (75%)	2129 (99%)	21 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	38/49 (78%)	38 (100%)	0	100	100
1	B	38/49 (78%)	38 (100%)	0	100	100
1	C	38/49 (78%)	38 (100%)	0	100	100
1	D	38/49 (78%)	38 (100%)	0	100	100
1	E	38/49 (78%)	38 (100%)	0	100	100
1	F	38/49 (78%)	38 (100%)	0	100	100
1	G	38/49 (78%)	38 (100%)	0	100	100
1	I	38/49 (78%)	38 (100%)	0	100	100
1	J	38/49 (78%)	38 (100%)	0	100	100
1	K	38/49 (78%)	37 (97%)	1 (3%)	40	56
1	N	38/49 (78%)	38 (100%)	0	100	100
1	O	38/49 (78%)	38 (100%)	0	100	100
1	P	38/49 (78%)	38 (100%)	0	100	100
1	Q	38/49 (78%)	38 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	R	38/49 (78%)	38 (100%)	0	100	100
1	S	38/49 (78%)	38 (100%)	0	100	100
2	a	31/40 (78%)	30 (97%)	1 (3%)	34	49
2	b	31/40 (78%)	30 (97%)	1 (3%)	34	49
2	c	31/40 (78%)	31 (100%)	0	100	100
2	d	31/40 (78%)	30 (97%)	1 (3%)	34	49
2	e	31/40 (78%)	31 (100%)	0	100	100
2	f	31/40 (78%)	30 (97%)	1 (3%)	34	49
2	g	31/40 (78%)	31 (100%)	0	100	100
2	i	31/40 (78%)	31 (100%)	0	100	100
2	j	31/40 (78%)	31 (100%)	0	100	100
2	k	31/40 (78%)	31 (100%)	0	100	100
2	n	31/40 (78%)	31 (100%)	0	100	100
2	o	31/40 (78%)	31 (100%)	0	100	100
2	p	31/40 (78%)	31 (100%)	0	100	100
2	q	31/40 (78%)	30 (97%)	1 (3%)	34	49
2	r	31/40 (78%)	31 (100%)	0	100	100
2	s	31/40 (78%)	31 (100%)	0	100	100
3	L	215/216 (100%)	214 (100%)	1 (0%)	81	89
4	H	216/220 (98%)	212 (98%)	4 (2%)	50	66
5	M	250/252 (99%)	249 (100%)	1 (0%)	84	91
6	T	9/94 (10%)	9 (100%)	0	100	100
All	All	1794/2206 (81%)	1782 (99%)	12 (1%)	73	86

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	K	30	PHE
2	b	31	VAL
2	a	22	ILE
2	d	20	GLN
2	f	15	THR
2	q	20	GLN
3	L	115	SER

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Mol	Chain	Res	Type
4	H	128	ASP
4	H	133	ILE
4	H	136	ILE
4	H	249	ASP
5	M	30	GLU

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

Mol	Chain	Res	Type
1	J	29	HIS
1	N	29	HIS
1	P	18	HIS
2	a	20	GLN
4	H	204	ASN
5	M	296	ASN
5	M	302	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 100 ligands modelled in this entry, 1 is monoatomic - leaving 99 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
7	BCL	S	101	1	69,74,74	1.82	18 (26%)	79,115,115	2.34	25 (31%)
7	BCL	E	101	1	69,74,74	1.80	17 (24%)	79,115,115	2.24	24 (30%)
7	BCL	b	102	2	69,74,74	1.80	18 (26%)	79,115,115	2.09	23 (29%)
8	A1EL2	N	102	-	42,44,44	1.31	8 (19%)	55,62,62	1.40	9 (16%)
8	A1EL2	r	103	-	42,44,44	4.65	33 (78%)	55,62,62	2.77	28 (50%)
7	BCL	q	102	2	69,74,74	1.79	17 (24%)	79,115,115	2.15	22 (27%)
10	8K6	C	104	-	8,8,17	0.09	0	7,7,16	0.11	0
9	A1ELD	q	101	-	44,44,44	1.34	10 (22%)	51,58,58	2.00	13 (25%)
8	A1EL2	F	102	-	42,44,44	1.32	8 (19%)	55,62,62	1.45	8 (14%)
9	A1ELD	g	101	-	44,44,44	1.34	6 (13%)	51,58,58	2.30	14 (27%)
10	8K6	L	313	-	14,14,17	0.14	0	13,13,16	0.12	0
7	BCL	k	101	2	69,74,74	1.77	15 (21%)	79,115,115	2.04	22 (27%)
7	BCL	o	102	2	69,74,74	1.78	17 (24%)	79,115,115	2.11	25 (31%)
8	A1EL2	D	102	-	42,44,44	1.33	8 (19%)	55,62,62	1.46	9 (16%)
18	PO4	M	409	-	4,4,4	1.01	0	6,6,6	0.46	0
11	PGV	T	301	-	19,19,50	1.53	2 (10%)	21,21,56	1.59	5 (23%)
10	8K6	Q	103	-	17,17,17	0.12	0	16,16,16	0.07	0
7	BCL	i	101	2	69,74,74	1.79	18 (26%)	79,115,115	2.21	23 (29%)
10	8K6	L	310	-	11,11,17	0.10	0	10,10,16	0.08	0
14	UQ8	M	402	-	53,53,53	0.66	2 (3%)	66,67,67	0.63	1 (1%)
9	A1ELD	f	101	-	44,44,44	1.39	6 (13%)	51,58,58	2.07	14 (27%)
7	BCL	L	302	3	69,74,74	1.79	17 (24%)	79,115,115	2.09	21 (26%)
10	8K6	H	301	-	17,17,17	0.10	0	16,16,16	0.06	0
7	BCL	p	101	2	69,74,74	1.79	17 (24%)	79,115,115	2.07	21 (26%)
11	PGV	D	103	-	50,50,50	0.91	2 (4%)	53,56,56	1.08	4 (7%)
7	BCL	N	101	1	69,74,74	1.81	20 (28%)	79,115,115	2.27	23 (29%)
9	A1ELD	j	101	-	44,44,44	1.29	5 (11%)	51,58,58	2.25	15 (29%)
19	LHG	T	302	-	8,9,48	0.20	0	7,8,54	1.14	1 (14%)
8	A1EL2	r	102	-	42,44,44	1.94	14 (33%)	55,62,62	1.61	13 (23%)
10	8K6	S	102	-	12,12,17	0.11	0	11,11,16	0.10	0
8	A1EL2	K	102	-	42,44,44	1.71	10 (23%)	55,62,62	1.25	7 (12%)
7	BCL	L	301	3	69,74,74	1.82	17 (24%)	79,115,115	2.32	21 (26%)
8	A1EL2	J	102	-	42,44,44	3.60	27 (64%)	55,62,62	4.20	38 (69%)
8	A1EL2	O	103	-	42,44,44	2.55	25 (59%)	55,62,62	1.78	15 (27%)
8	A1EL2	P	102	-	42,44,44	3.24	19 (45%)	55,62,62	2.22	24 (43%)
11	PGV	L	307	-	20,20,50	1.27	2 (10%)	23,25,56	1.41	3 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	BCL	M	401	5	69,74,74	1.88	20 (28%)	79,115,115	2.42	25 (31%)
7	BCL	f	102	2	69,74,74	1.77	18 (26%)	79,115,115	2.21	25 (31%)
7	BCL	s	101	2	69,74,74	1.79	17 (24%)	79,115,115	2.09	22 (27%)
7	BCL	c	101	2	69,74,74	1.80	16 (23%)	79,115,115	2.10	21 (26%)
10	8K6	M	406	-	14,14,17	0.11	0	13,13,16	0.12	0
7	BCL	R	101	1	69,74,74	1.79	20 (28%)	79,115,115	2.28	21 (26%)
11	PGV	L	308	-	28,28,50	1.23	2 (7%)	31,34,56	1.30	5 (16%)
9	A1ELD	O	102	-	44,44,44	3.19	21 (47%)	51,58,58	3.14	17 (33%)
12	LMT	G	104	-	31,31,36	1.24	6 (19%)	42,42,47	0.94	2 (4%)
8	A1EL2	E	102	-	42,44,44	1.33	8 (19%)	55,62,62	1.46	8 (14%)
8	A1EL2	A	102	-	42,44,44	1.32	8 (19%)	55,62,62	1.45	7 (12%)
8	A1EL2	Q	102	-	42,44,44	2.70	23 (54%)	55,62,62	1.48	9 (16%)
9	A1ELD	b	101	-	44,44,44	1.43	10 (22%)	51,58,58	2.16	14 (27%)
7	BCL	M	403	5	69,74,74	1.79	18 (26%)	79,115,115	2.29	21 (26%)
11	PGV	T	303	-	29,29,50	1.23	2 (6%)	32,34,56	1.33	4 (12%)
13	BPH	L	303	-	59,70,70	2.63	15 (25%)	59,101,101	2.14	15 (25%)
8	A1EL2	I	102	-	42,44,44	2.49	21 (50%)	55,62,62	3.07	30 (54%)
8	A1EL2	G	102	-	42,44,44	2.00	17 (40%)	55,62,62	1.39	10 (18%)
7	BCL	e	102	2	69,74,74	1.80	19 (27%)	79,115,115	2.13	25 (31%)
9	A1ELD	A	103	-	44,44,44	1.34	10 (22%)	51,58,58	2.06	12 (23%)
11	PGV	F	103	-	50,50,50	0.90	2 (4%)	53,56,56	1.09	4 (7%)
7	BCL	B	101	1	69,74,74	1.79	17 (24%)	79,115,115	2.30	24 (30%)
7	BCL	j	102	2	69,74,74	1.78	16 (23%)	79,115,115	2.14	21 (26%)
7	BCL	C	101	1	69,74,74	1.79	20 (28%)	79,115,115	2.34	22 (27%)
7	BCL	J	101	1	69,74,74	1.82	19 (27%)	79,115,115	2.32	21 (26%)
8	A1EL2	C	103	-	42,44,44	1.33	8 (19%)	55,62,62	1.46	8 (14%)
9	A1ELD	e	101	-	44,44,44	2.19	20 (45%)	51,58,58	2.12	13 (25%)
7	BCL	d	102	2	69,74,74	1.80	16 (23%)	79,115,115	2.17	21 (26%)
17	PEF	M	407	-	42,42,46	0.29	0	45,47,51	0.32	0
10	8K6	L	312	-	9,9,17	0.11	0	8,8,16	0.08	0
9	A1ELD	R	103	-	44,44,44	1.35	10 (22%)	51,58,58	2.51	14 (27%)
11	PGV	G	103	-	22,22,50	1.75	3 (13%)	23,26,56	1.53	3 (13%)
13	BPH	L	305	-	59,70,70	0.85	4 (6%)	59,101,101	1.23	5 (8%)
12	LMT	L	309	-	29,29,36	1.27	6 (20%)	40,40,47	1.08	1 (2%)
7	BCL	D	101	1	69,74,74	1.81	19 (27%)	79,115,115	2.38	27 (34%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	BCL	A	101	1	69,74,74	1.82	20 (28%)	79,115,115	2.36	26 (32%)
8	A1EL2	B	102	-	42,44,44	1.33	8 (19%)	55,62,62	1.45	8 (14%)
7	BCL	G	101	1	69,74,74	1.80	19 (27%)	79,115,115	2.29	22 (27%)
9	A1ELD	r	101	-	44,44,44	1.34	10 (22%)	51,58,58	2.17	13 (25%)
7	BCL	a	101	2	69,74,74	1.76	16 (23%)	79,115,115	2.08	22 (27%)
7	BCL	Q	101	1	69,74,74	1.79	19 (27%)	79,115,115	2.27	22 (27%)
7	BCL	O	101	1	69,74,74	1.82	19 (27%)	79,115,115	2.33	23 (29%)
9	A1ELD	C	102	-	44,44,44	1.28	4 (9%)	51,58,58	2.32	14 (27%)
11	PGV	M	408	-	37,37,50	1.09	2 (5%)	40,42,56	1.23	5 (12%)
12	LMT	N	103	-	27,27,36	1.31	6 (22%)	38,38,47	0.98	2 (5%)
10	8K6	L	311	-	13,13,17	0.10	0	12,12,16	0.11	0
14	UQ8	L	306	-	18,18,53	1.08	2 (11%)	24,25,67	0.91	1 (4%)
7	BCL	K	101	1	69,74,74	1.80	19 (27%)	79,115,115	2.29	24 (30%)
9	A1ELD	J	103	-	44,44,44	1.62	13 (29%)	51,58,58	2.09	12 (23%)
9	A1ELD	o	101	-	44,44,44	4.65	33 (75%)	51,58,58	2.04	13 (25%)
10	8K6	f	103	-	13,13,17	0.11	0	12,12,16	0.08	0
16	H4X	M	405	-	43,43,43	1.25	8 (18%)	52,54,54	1.18	10 (19%)
7	BCL	P	101	1	69,74,74	1.82	19 (27%)	79,115,115	2.31	24 (30%)
7	BCL	F	101	1	69,74,74	1.89	18 (26%)	79,115,115	2.12	22 (27%)
7	BCL	r	104	2	69,74,74	1.79	17 (24%)	79,115,115	2.08	20 (25%)
9	A1ELD	B	103	-	44,44,44	2.36	17 (38%)	51,58,58	2.38	19 (37%)
7	BCL	n	101	2	69,74,74	1.80	17 (24%)	79,115,115	2.14	23 (29%)
9	A1ELD	d	101	-	44,44,44	1.67	11 (25%)	51,58,58	2.05	12 (23%)
14	UQ8	L	304	-	19,19,53	1.02	2 (10%)	24,26,67	1.19	2 (8%)
7	BCL	I	101	1	69,74,74	1.79	18 (26%)	79,115,115	2.30	24 (30%)
10	8K6	Q	104	-	17,17,17	0.09	0	16,16,16	0.12	0
7	BCL	g	102	2	69,74,74	1.79	17 (24%)	79,115,115	2.11	23 (29%)
9	A1ELD	R	102	-	44,44,44	6.23	39 (88%)	51,58,58	4.92	29 (56%)

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
7	BCL	S	101	1	-	23/41/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	BCL	E	101	1	-	15/41/137/137	-
7	BCL	b	102	2	-	15/41/137/137	-
8	A1EL2	N	102	-	-	2/29/72/72	0/2/2/2
8	A1EL2	r	103	-	-	2/29/72/72	0/2/2/2
7	BCL	q	102	2	-	17/41/137/137	-
10	8K6	C	104	-	-	3/6/6/15	-
9	A1ELD	q	101	-	-	6/42/61/61	0/1/1/1
8	A1EL2	F	102	-	-	3/29/72/72	0/2/2/2
9	A1ELD	g	101	-	-	4/42/61/61	0/1/1/1
10	8K6	L	313	-	-	1/12/12/15	-
7	BCL	k	101	2	-	17/41/137/137	-
7	BCL	o	102	2	-	18/41/137/137	-
8	A1EL2	D	102	-	-	3/29/72/72	0/2/2/2
11	PGV	T	301	-	-	7/20/20/55	-
10	8K6	Q	103	-	-	2/15/15/15	-
7	BCL	i	101	2	-	17/41/137/137	-
10	8K6	L	310	-	-	0/9/9/15	-
14	UQ8	M	402	-	-	9/51/75/75	0/1/1/1
9	A1ELD	f	101	-	-	4/42/61/61	0/1/1/1
7	BCL	L	302	3	-	17/41/137/137	-
10	8K6	H	301	-	-	1/15/15/15	-
7	BCL	p	101	2	-	23/41/137/137	-
11	PGV	D	103	-	-	10/55/55/55	-
7	BCL	N	101	1	-	12/41/137/137	-
9	A1ELD	j	101	-	-	4/42/61/61	0/1/1/1
19	LHG	T	302	-	-	3/7/7/53	-
8	A1EL2	r	102	-	-	8/29/72/72	0/2/2/2
10	8K6	S	102	-	-	2/10/10/15	-
8	A1EL2	K	102	-	-	3/29/72/72	0/2/2/2
7	BCL	L	301	3	-	6/41/137/137	-
8	A1EL2	J	102	-	-	2/29/72/72	0/2/2/2
8	A1EL2	O	103	-	-	2/29/72/72	0/2/2/2
8	A1EL2	P	102	-	-	4/29/72/72	0/2/2/2
11	PGV	L	307	-	-	4/21/21/55	-
7	BCL	M	401	5	-	10/41/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	BCL	f	102	2	-	17/41/137/137	-
7	BCL	s	101	2	-	20/41/137/137	-
7	BCL	c	101	2	-	23/41/137/137	-
10	8K6	M	406	-	-	2/12/12/15	-
7	BCL	R	101	1	-	17/41/137/137	-
11	PGV	L	308	-	-	12/33/33/55	-
9	A1ELD	O	102	-	-	3/42/61/61	0/1/1/1
12	LMT	G	104	-	-	4/16/56/61	0/2/2/2
8	A1EL2	E	102	-	-	3/29/72/72	0/2/2/2
8	A1EL2	A	102	-	-	3/29/72/72	0/2/2/2
8	A1EL2	Q	102	-	-	4/29/72/72	0/2/2/2
9	A1ELD	b	101	-	-	4/42/61/61	0/1/1/1
7	BCL	M	403	5	-	16/41/137/137	-
11	PGV	T	303	-	-	10/31/31/55	-
13	BPH	L	303	-	-	11/37/105/105	0/5/6/6
8	A1EL2	I	102	-	-	4/29/72/72	0/2/2/2
8	A1EL2	G	102	-	-	3/29/72/72	0/2/2/2
7	BCL	e	102	2	-	14/41/137/137	-
9	A1ELD	A	103	-	-	4/42/61/61	0/1/1/1
11	PGV	F	103	-	-	9/55/55/55	-
7	BCL	B	101	1	-	20/41/137/137	-
7	BCL	j	102	2	-	10/41/137/137	-
7	BCL	C	101	1	-	16/41/137/137	-
7	BCL	J	101	1	-	14/41/137/137	-
8	A1EL2	C	103	-	-	4/29/72/72	0/2/2/2
9	A1ELD	e	101	-	-	4/42/61/61	0/1/1/1
7	BCL	d	102	2	-	15/41/137/137	-
17	PEF	M	407	-	-	2/46/46/50	-
10	8K6	L	312	-	-	0/7/7/15	-
9	A1ELD	R	103	-	-	6/42/61/61	0/1/1/1
11	PGV	G	103	-	-	6/23/23/55	-
13	BPH	L	305	-	-	16/37/105/105	0/5/6/6
12	LMT	L	309	-	-	7/14/54/61	0/2/2/2
7	BCL	D	101	1	-	19/41/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	BCL	A	101	1	-	9/41/137/137	-
8	A1EL2	B	102	-	-	3/29/72/72	0/2/2/2
7	BCL	G	101	1	-	18/41/137/137	-
9	A1ELD	r	101	-	-	1/42/61/61	0/1/1/1
7	BCL	a	101	2	-	18/41/137/137	-
7	BCL	Q	101	1	-	17/41/137/137	-
7	BCL	O	101	1	-	17/41/137/137	-
9	A1ELD	C	102	-	-	4/42/61/61	0/1/1/1
11	PGV	M	408	-	-	11/39/39/55	-
12	LMT	N	103	-	-	3/12/52/61	0/2/2/2
10	8K6	L	311	-	-	0/11/11/15	-
14	UQ8	L	306	-	-	2/9/33/75	0/1/1/1
7	BCL	K	101	1	-	17/41/137/137	-
9	A1ELD	J	103	-	-	4/42/61/61	0/1/1/1
9	A1ELD	o	101	-	-	4/42/61/61	0/1/1/1
10	8K6	f	103	-	-	0/11/11/15	-
16	H4X	M	405	-	-	2/51/51/51	-
7	BCL	P	101	1	-	13/41/137/137	-
7	BCL	F	101	1	-	16/41/137/137	-
7	BCL	r	104	2	-	18/41/137/137	-
9	A1ELD	B	103	-	-	4/42/61/61	0/1/1/1
7	BCL	n	101	2	-	17/41/137/137	-
9	A1ELD	d	101	-	-	4/42/61/61	0/1/1/1
14	UQ8	L	304	-	-	6/11/35/75	0/1/1/1
7	BCL	I	101	1	-	16/41/137/137	-
10	8K6	Q	104	-	-	4/15/15/15	-
7	BCL	g	102	2	-	16/41/137/137	-
9	A1ELD	R	102	-	-	4/42/61/61	0/1/1/1

All (1182) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	102	A1ELD	C36-C35	17.92	1.76	1.50
8	r	103	A1EL2	C33-C34	12.42	1.69	1.52
9	R	102	A1ELD	C39-C37	12.07	1.80	1.52
9	R	102	A1ELD	C5-C4	11.93	1.69	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	102	A1ELD	C2-C3	11.53	1.68	1.53
8	r	103	A1EL2	C37-C35	9.94	1.74	1.54
8	J	102	A1EL2	C7-C2	9.73	1.66	1.51
9	R	102	A1ELD	C43-C4	9.58	1.66	1.50
9	O	102	A1ELD	C7-C6	-9.34	1.39	1.52
9	o	101	A1ELD	C36-C37	8.87	1.68	1.52
13	L	303	BPH	C1B-C2B	8.82	1.49	1.39
9	R	102	A1ELD	C34-C32	8.80	1.64	1.46
13	L	303	BPH	C1D-C2D	8.79	1.49	1.39
9	R	102	A1ELD	C7-C6	-8.29	1.40	1.52
8	r	103	A1EL2	C2-C3	8.22	1.48	1.34
9	R	102	A1ELD	C5-C6	8.17	1.66	1.52
9	o	101	A1ELD	C9-C10	-7.96	1.28	1.46
8	J	102	A1EL2	C32-C31	7.84	1.63	1.51
9	R	102	A1ELD	O13-C12	7.80	1.39	1.22
9	O	102	A1ELD	C44-C2	-7.80	1.39	1.53
9	o	101	A1ELD	C5-C4	-7.41	1.39	1.51
9	o	101	A1ELD	C36-C35	-7.41	1.39	1.50
8	P	102	A1EL2	C15-C16	-7.40	1.30	1.46
9	o	101	A1ELD	C34-C32	-7.20	1.30	1.46
9	o	101	A1ELD	C45-C2	7.17	1.67	1.53
9	o	101	A1ELD	C24-C22	-7.15	1.30	1.46
8	P	102	A1EL2	C32-C31	-7.08	1.40	1.51
9	o	101	A1ELD	C2-C3	-6.98	1.44	1.53
8	P	102	A1EL2	C23-C21	-6.94	1.31	1.46
8	r	103	A1EL2	C36-C35	-6.93	1.40	1.54
9	R	102	A1ELD	C45-C2	-6.76	1.41	1.53
9	B	103	A1ELD	C7-C6	-6.72	1.42	1.52
8	r	103	A1EL2	C38-C31	6.66	1.61	1.50
9	o	101	A1ELD	C13-C10	6.66	1.51	1.35
9	o	101	A1ELD	C29-C27	-6.56	1.29	1.45
8	P	102	A1EL2	C11-C12	-6.45	1.32	1.46
9	o	101	A1ELD	C15-C16	-6.41	1.32	1.46
8	J	102	A1EL2	C8-C4	-6.35	1.41	1.53
8	J	102	A1EL2	C32-C33	-6.31	1.42	1.52
9	O	102	A1ELD	C33-C32	-6.28	1.38	1.50
8	r	103	A1EL2	C15-C16	-6.22	1.32	1.46
8	r	103	A1EL2	C9-C4	-6.22	1.42	1.53
9	R	102	A1ELD	C15-C16	6.21	1.59	1.46
9	R	102	A1ELD	C29-C27	6.15	1.60	1.45
9	o	101	A1ELD	C18-C16	6.10	1.49	1.35
9	R	102	A1ELD	C9-C10	6.00	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	102	A1ELD	C4-C3	-5.95	1.24	1.34
11	G	103	PGV	O01-C1	5.92	1.45	1.33
9	R	102	A1ELD	C44-C2	-5.84	1.42	1.53
13	L	303	BPH	C3B-C2B	5.84	1.49	1.39
8	P	102	A1EL2	C28-C26	-5.82	1.33	1.46
9	O	102	A1ELD	C5-C6	5.81	1.62	1.52
13	L	303	BPH	C4D-CHA	5.79	1.48	1.39
9	R	102	A1ELD	C30-C31	5.66	1.60	1.43
8	J	102	A1EL2	C27-C26	-5.63	1.39	1.50
8	Q	102	A1EL2	C4-C3	-5.61	1.46	1.53
7	F	101	BCL	C3D-C4D	-5.57	1.31	1.44
8	I	102	A1EL2	C7-C2	5.55	1.59	1.51
9	o	101	A1ELD	C14-C15	5.51	1.49	1.34
8	r	103	A1EL2	C7-C6	5.50	1.61	1.52
9	R	102	A1ELD	C8-C3	5.49	1.63	1.45
9	R	102	A1ELD	O46-C6	5.47	1.59	1.43
8	r	103	A1EL2	C23-C21	-5.43	1.34	1.46
9	O	102	A1ELD	C38-C37	-5.42	1.40	1.52
7	M	401	BCL	O2D-CGD	5.37	1.46	1.33
13	L	303	BPH	C3B-C4B	5.34	1.50	1.41
8	O	103	A1EL2	C33-C34	5.34	1.59	1.52
8	Q	102	A1EL2	C28-C26	-5.33	1.34	1.46
7	L	301	BCL	O2D-CGD	5.33	1.46	1.33
8	r	103	A1EL2	C27-C26	-5.33	1.40	1.50
13	L	303	BPH	C3D-C2D	5.32	1.48	1.39
9	R	102	A1ELD	C36-C37	-5.25	1.43	1.52
8	P	102	A1EL2	C18-C17	-5.25	1.26	1.43
9	o	101	A1ELD	C39-C37	-5.19	1.40	1.52
8	r	103	A1EL2	C8-C4	5.15	1.63	1.53
8	P	102	A1EL2	C19-C20	-5.13	1.27	1.43
8	r	103	A1EL2	C28-C26	-5.05	1.35	1.46
8	r	103	A1EL2	C32-C31	-5.04	1.43	1.51
8	I	102	A1EL2	C32-C33	-5.03	1.44	1.52
7	Q	101	BCL	O2D-CGD	5.03	1.45	1.33
7	C	101	BCL	O2D-CGD	5.02	1.45	1.33
7	N	101	BCL	O2D-CGD	5.02	1.45	1.33
8	P	102	A1EL2	C7-C2	-5.02	1.43	1.51
7	F	101	BCL	O2A-CGA	5.01	1.47	1.33
7	D	101	BCL	O2D-CGD	5.00	1.45	1.33
7	B	101	BCL	O2D-CGD	4.99	1.45	1.33
7	F	101	BCL	C4B-NB	-4.98	1.31	1.37
7	G	101	BCL	O2D-CGD	4.98	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	O	103	A1EL2	C31-C30	4.97	1.42	1.34
7	S	101	BCL	O2D-CGD	4.96	1.45	1.33
9	o	101	A1ELD	C30-C31	-4.92	1.27	1.43
7	O	101	BCL	O2D-CGD	4.92	1.45	1.33
7	I	101	BCL	O2D-CGD	4.91	1.45	1.33
7	M	401	BCL	C3B-C4B	4.90	1.50	1.41
13	L	303	BPH	O2D-CGD	4.90	1.45	1.33
7	A	101	BCL	O2D-CGD	4.90	1.45	1.33
7	M	403	BCL	O2D-CGD	4.89	1.45	1.33
7	K	101	BCL	O2D-CGD	4.88	1.45	1.33
7	s	101	BCL	C3D-C4D	-4.84	1.33	1.44
7	E	101	BCL	O2D-CGD	4.83	1.45	1.33
7	o	102	BCL	O2D-CGD	4.83	1.45	1.33
13	L	303	BPH	OBD-CAD	4.83	1.28	1.22
7	c	101	BCL	O2D-CGD	4.83	1.45	1.33
9	R	102	A1ELD	C7-C2	4.82	1.69	1.54
7	P	101	BCL	O2D-CGD	4.82	1.45	1.33
7	M	403	BCL	C3D-C4D	-4.80	1.33	1.44
7	R	101	BCL	O2D-CGD	4.80	1.45	1.33
7	L	302	BCL	C3D-C4D	-4.80	1.33	1.44
7	q	102	BCL	C3D-C4D	-4.79	1.33	1.44
7	L	302	BCL	O2D-CGD	4.79	1.45	1.33
7	s	101	BCL	O2D-CGD	4.78	1.45	1.33
7	b	102	BCL	C3D-C4D	-4.78	1.33	1.44
7	e	102	BCL	C3D-C4D	-4.78	1.33	1.44
7	i	101	BCL	C3D-C4D	-4.77	1.33	1.44
7	a	101	BCL	C3D-C4D	-4.77	1.33	1.44
7	g	102	BCL	C3D-C4D	-4.77	1.33	1.44
7	e	102	BCL	O2D-CGD	4.76	1.44	1.33
8	J	102	A1EL2	C2-C3	4.76	1.42	1.34
7	D	101	BCL	C3B-C4B	4.76	1.50	1.41
7	f	102	BCL	C3D-C4D	-4.75	1.33	1.44
8	I	102	A1EL2	C32-C31	4.75	1.58	1.51
7	b	102	BCL	O2D-CGD	4.75	1.44	1.33
7	r	104	BCL	C3D-C4D	-4.73	1.33	1.44
7	r	104	BCL	O2D-CGD	4.73	1.44	1.33
8	r	103	A1EL2	C11-C12	-4.72	1.35	1.46
7	j	102	BCL	O2D-CGD	4.72	1.44	1.33
7	j	102	BCL	C3D-C4D	-4.72	1.33	1.44
9	R	102	A1ELD	C14-C13	4.71	1.57	1.43
7	n	101	BCL	O2D-CGD	4.71	1.44	1.33
7	c	101	BCL	C3D-C4D	-4.71	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	f	102	BCL	O2D-CGD	4.71	1.44	1.33
7	d	102	BCL	O2D-CGD	4.70	1.44	1.33
7	M	401	BCL	C3D-C4D	-4.69	1.33	1.44
7	p	101	BCL	C3D-C4D	-4.69	1.33	1.44
7	n	101	BCL	C3D-C4D	-4.68	1.33	1.44
7	E	101	BCL	C3D-C4D	-4.68	1.33	1.44
7	L	301	BCL	C3D-C4D	-4.68	1.33	1.44
7	J	101	BCL	C3D-C4D	-4.68	1.33	1.44
7	p	101	BCL	O2D-CGD	4.67	1.44	1.33
7	a	101	BCL	O2D-CGD	4.67	1.44	1.33
7	q	102	BCL	O2D-CGD	4.67	1.44	1.33
7	k	101	BCL	C3D-C4D	-4.65	1.33	1.44
8	r	102	A1EL2	C28-C26	-4.64	1.36	1.46
7	M	403	BCL	C3B-C4B	4.64	1.50	1.41
7	k	101	BCL	O2D-CGD	4.64	1.44	1.33
9	o	101	A1ELD	C14-C13	-4.63	1.28	1.43
7	I	101	BCL	C3D-C4D	-4.62	1.33	1.44
7	g	102	BCL	O2D-CGD	4.62	1.44	1.33
7	J	101	BCL	O2D-CGD	4.62	1.44	1.33
7	d	102	BCL	C3D-C4D	-4.62	1.33	1.44
7	R	101	BCL	C3D-C4D	-4.61	1.33	1.44
7	i	101	BCL	O2D-CGD	4.60	1.44	1.33
7	G	101	BCL	C3D-C4D	-4.60	1.33	1.44
9	O	102	A1ELD	C43-C4	4.59	1.58	1.50
7	S	101	BCL	C3D-C4D	-4.58	1.33	1.44
7	B	101	BCL	C3D-C4D	-4.58	1.33	1.44
7	P	101	BCL	C3D-C4D	-4.57	1.33	1.44
7	A	101	BCL	C3D-C4D	-4.57	1.33	1.44
7	Q	101	BCL	C3D-C4D	-4.56	1.33	1.44
8	r	103	A1EL2	C18-C17	-4.56	1.29	1.43
7	K	101	BCL	C3D-C4D	-4.55	1.34	1.44
7	O	101	BCL	C3D-C4D	-4.55	1.34	1.44
8	J	102	A1EL2	O1-C6	4.52	1.56	1.43
7	o	102	BCL	C3D-C4D	-4.52	1.34	1.44
7	D	101	BCL	C3D-C4D	-4.51	1.34	1.44
8	r	102	A1EL2	C11-C12	-4.50	1.36	1.46
8	P	102	A1EL2	C14-C13	-4.50	1.29	1.43
8	Q	102	A1EL2	C17-C16	4.50	1.46	1.35
7	N	101	BCL	C3D-C4D	-4.49	1.34	1.44
11	T	301	PGV	O01-C1	4.49	1.47	1.34
9	o	101	A1ELD	C43-C4	-4.49	1.43	1.50
9	R	102	A1ELD	C23-C22	4.48	1.59	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	C	101	BCL	C3D-C4D	-4.48	1.34	1.44
7	C	101	BCL	C3B-C4B	4.47	1.50	1.41
7	L	301	BCL	C3B-C4B	4.45	1.49	1.41
8	J	102	A1EL2	C5-C4	4.41	1.68	1.54
9	R	102	A1ELD	C31-C32	4.41	1.46	1.35
7	M	401	BCL	O2A-CGA	4.40	1.46	1.33
7	F	101	BCL	O2D-CGD	4.40	1.44	1.33
7	o	102	BCL	O2A-CGA	4.38	1.46	1.33
9	R	102	A1ELD	C24-C22	4.38	1.55	1.46
7	M	403	BCL	O2A-CGA	4.36	1.46	1.33
7	L	301	BCL	O2A-CGA	4.36	1.46	1.33
11	G	103	PGV	O03-C19	4.34	1.46	1.33
9	R	102	A1ELD	C25-C26	4.33	1.56	1.43
7	k	101	BCL	O2A-CGA	4.33	1.46	1.33
9	e	101	A1ELD	C9-C10	-4.33	1.36	1.46
9	B	103	A1ELD	C36-C35	4.30	1.56	1.50
7	a	101	BCL	O2A-CGA	4.29	1.45	1.33
7	g	102	BCL	O2A-CGA	4.29	1.45	1.33
7	b	102	BCL	O2A-CGA	4.29	1.45	1.33
8	J	102	A1EL2	C31-C30	-4.28	1.27	1.34
9	o	101	A1ELD	O13-C12	-4.27	1.12	1.22
8	Q	102	A1EL2	C23-C21	-4.27	1.36	1.46
7	e	102	BCL	O2A-CGA	4.27	1.45	1.33
7	r	104	BCL	O2A-CGA	4.25	1.45	1.33
13	L	303	BPH	O2A-CGA	4.25	1.45	1.33
7	N	101	BCL	C3B-C4B	4.25	1.49	1.41
11	T	301	PGV	O03-C19	4.25	1.45	1.33
11	M	408	PGV	O03-C19	4.24	1.45	1.33
7	s	101	BCL	O2A-CGA	4.24	1.45	1.33
11	L	308	PGV	O01-C1	4.24	1.46	1.34
7	j	102	BCL	O2A-CGA	4.23	1.45	1.33
7	C	101	BCL	O2A-CGA	4.22	1.45	1.33
11	D	103	PGV	O03-C19	4.22	1.45	1.33
8	I	102	A1EL2	C27-C26	-4.22	1.42	1.50
9	o	101	A1ELD	C20-C21	-4.22	1.30	1.43
11	T	303	PGV	O03-C19	4.21	1.45	1.33
9	B	103	A1ELD	C5-C6	4.21	1.59	1.52
7	q	102	BCL	O2A-CGA	4.21	1.45	1.33
7	L	302	BCL	O2A-CGA	4.21	1.45	1.33
8	J	102	A1EL2	C10-C3	4.20	1.59	1.45
11	L	308	PGV	O03-C19	4.20	1.45	1.33
9	o	101	A1ELD	C25-C26	-4.20	1.30	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	S	101	BCL	O2A-CGA	4.19	1.45	1.33
7	N	101	BCL	O2A-CGA	4.18	1.45	1.33
8	r	103	A1EL2	C1-C2	4.18	1.57	1.50
8	P	102	A1EL2	C24-C25	-4.17	1.30	1.43
7	i	101	BCL	O2A-CGA	4.17	1.45	1.33
8	r	103	A1EL2	C19-C20	-4.16	1.30	1.43
8	Q	102	A1EL2	C20-C21	4.16	1.45	1.35
7	P	101	BCL	C3B-C4B	4.15	1.49	1.41
9	R	102	A1ELD	C17-C16	4.15	1.59	1.50
7	E	101	BCL	O2A-CGA	4.15	1.45	1.33
7	K	101	BCL	O2A-CGA	4.15	1.45	1.33
7	n	101	BCL	O2A-CGA	4.14	1.45	1.33
9	o	101	A1ELD	C7-C2	-4.14	1.42	1.54
7	I	101	BCL	O2A-CGA	4.13	1.45	1.33
7	p	101	BCL	O2A-CGA	4.13	1.45	1.33
7	G	101	BCL	O2A-CGA	4.12	1.45	1.33
7	A	101	BCL	C3B-C4B	4.11	1.49	1.41
11	M	408	PGV	O01-C1	4.10	1.45	1.34
11	T	303	PGV	O01-C1	4.10	1.45	1.34
7	J	101	BCL	O2A-CGA	4.10	1.45	1.33
7	d	102	BCL	O2A-CGA	4.10	1.45	1.33
7	j	102	BCL	C3B-C4B	4.10	1.49	1.41
11	F	103	PGV	O03-C19	4.10	1.45	1.33
9	R	102	A1ELD	C33-C32	-4.09	1.42	1.50
7	S	101	BCL	C3B-C4B	4.09	1.49	1.41
7	G	101	BCL	C3B-C4B	4.08	1.49	1.41
7	P	101	BCL	O2A-CGA	4.08	1.45	1.33
8	Q	102	A1EL2	C13-C12	4.08	1.45	1.35
7	B	101	BCL	O2A-CGA	4.07	1.45	1.33
11	L	307	PGV	O01-C1	4.07	1.45	1.34
11	D	103	PGV	O01-C1	4.07	1.45	1.34
7	I	101	BCL	C3B-C4B	4.07	1.49	1.41
11	F	103	PGV	O01-C1	4.07	1.45	1.34
7	O	101	BCL	O2A-CGA	4.06	1.45	1.33
7	p	101	BCL	C3B-C4B	4.06	1.49	1.41
8	r	103	A1EL2	C4-C3	4.06	1.59	1.53
8	r	103	A1EL2	C32-C33	-4.05	1.46	1.52
7	c	101	BCL	O2A-CGA	4.04	1.45	1.33
7	o	102	BCL	C3B-C4B	4.03	1.49	1.41
7	i	101	BCL	C3B-C4B	4.03	1.49	1.41
7	r	104	BCL	C3B-C4B	4.02	1.49	1.41
7	f	102	BCL	O2A-CGA	4.02	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	d	102	BCL	C3B-C4B	4.01	1.49	1.41
7	g	102	BCL	C3B-C4B	4.01	1.49	1.41
7	A	101	BCL	O2A-CGA	4.01	1.45	1.33
7	D	101	BCL	O2A-CGA	4.01	1.45	1.33
9	O	102	A1ELD	C45-C2	4.00	1.61	1.53
7	q	102	BCL	C3B-C4B	4.00	1.49	1.41
7	b	102	BCL	C3B-C4B	3.99	1.49	1.41
9	O	102	A1ELD	C36-C35	3.99	1.56	1.50
7	Q	101	BCL	O2A-CGA	3.98	1.44	1.33
7	E	101	BCL	C3B-C4B	3.97	1.49	1.41
9	e	101	A1ELD	C34-C32	-3.97	1.37	1.46
9	B	103	A1ELD	C44-C2	-3.97	1.46	1.53
7	K	101	BCL	C3B-C4B	3.96	1.48	1.41
9	o	101	A1ELD	C19-C18	-3.95	1.30	1.43
7	f	102	BCL	C3B-C4B	3.94	1.48	1.41
7	c	101	BCL	C1B-NB	-3.94	1.32	1.37
7	s	101	BCL	C3B-C4B	3.93	1.48	1.41
7	c	101	BCL	C3B-C4B	3.92	1.48	1.41
8	I	102	A1EL2	C8-C4	-3.92	1.46	1.53
9	o	101	A1ELD	C21-C22	3.90	1.44	1.35
7	O	101	BCL	C3B-C4B	3.89	1.48	1.41
7	R	101	BCL	O2A-CGA	3.88	1.44	1.33
7	k	101	BCL	C3B-C4B	3.88	1.48	1.41
8	I	102	A1EL2	C40-C12	-3.85	1.43	1.50
7	e	102	BCL	C3B-C4B	3.84	1.48	1.41
7	J	101	BCL	C3B-C4B	3.84	1.48	1.41
9	B	103	A1ELD	C43-C4	3.83	1.57	1.50
8	K	102	A1EL2	C15-C16	-3.83	1.37	1.46
7	n	101	BCL	C3B-C4B	3.83	1.48	1.41
8	J	102	A1EL2	C11-C12	3.83	1.54	1.46
7	L	302	BCL	C3B-C4B	3.82	1.48	1.41
8	G	102	A1EL2	C33-C34	-3.81	1.47	1.52
9	o	101	A1ELD	C9-C8	3.80	1.44	1.33
8	J	102	A1EL2	C29-C30	3.80	1.58	1.45
7	M	401	BCL	C1B-NB	-3.80	1.32	1.37
7	c	101	BCL	C1D-ND	-3.79	1.32	1.37
9	o	101	A1ELD	O46-C6	-3.79	1.32	1.43
7	B	101	BCL	C3B-C4B	3.78	1.48	1.41
7	Q	101	BCL	C3B-C4B	3.78	1.48	1.41
7	a	101	BCL	C3B-C4B	3.78	1.48	1.41
8	r	102	A1EL2	C23-C21	-3.78	1.37	1.46
9	o	101	A1ELD	C44-C2	3.77	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	k	101	BCL	C1D-ND	-3.75	1.32	1.37
8	O	103	A1EL2	C5-C6	-3.74	1.47	1.52
8	K	102	A1EL2	C11-C12	-3.74	1.38	1.46
9	d	101	A1ELD	C9-C10	-3.74	1.38	1.46
8	P	102	A1EL2	C38-C31	3.73	1.56	1.50
7	o	102	BCL	C1D-ND	-3.73	1.33	1.37
7	R	101	BCL	C3B-C4B	3.72	1.48	1.41
8	G	102	A1EL2	C28-C26	-3.72	1.38	1.46
8	r	102	A1EL2	C15-C16	-3.72	1.38	1.46
8	O	103	A1EL2	C11-C12	-3.71	1.38	1.46
7	e	102	BCL	C1D-ND	-3.70	1.33	1.37
9	O	102	A1ELD	C20-C19	-3.70	1.26	1.36
7	n	101	BCL	C1D-ND	-3.70	1.33	1.37
8	Q	102	A1EL2	C11-C12	-3.69	1.38	1.46
9	O	102	A1ELD	O42-C41	-3.69	1.31	1.43
8	Q	102	A1EL2	C25-C26	3.68	1.44	1.35
8	O	103	A1EL2	C8-C4	3.68	1.60	1.53
7	f	102	BCL	C1D-ND	-3.67	1.33	1.37
7	b	102	BCL	C1D-ND	-3.65	1.33	1.37
8	J	102	A1EL2	C36-C35	-3.65	1.46	1.54
7	q	102	BCL	C1D-ND	-3.63	1.33	1.37
8	J	102	A1EL2	C40-C12	-3.62	1.43	1.50
8	I	102	A1EL2	C33-C34	-3.62	1.47	1.52
9	e	101	A1ELD	C29-C27	-3.61	1.36	1.45
7	L	302	BCL	C1D-ND	-3.60	1.33	1.37
7	p	101	BCL	C1D-ND	-3.60	1.33	1.37
7	j	102	BCL	C1D-ND	-3.60	1.33	1.37
7	a	101	BCL	C1D-ND	-3.60	1.33	1.37
9	B	103	A1ELD	C4-C3	-3.59	1.28	1.34
7	s	101	BCL	C1D-ND	-3.58	1.33	1.37
7	r	104	BCL	C1D-ND	-3.58	1.33	1.37
8	Q	102	A1EL2	C1-C2	-3.58	1.45	1.50
9	B	103	A1ELD	C2-C3	3.58	1.58	1.53
8	I	102	A1EL2	C22-C21	-3.57	1.43	1.50
7	J	101	BCL	C4B-NB	-3.57	1.33	1.37
9	B	103	A1ELD	C38-C37	-3.57	1.44	1.52
7	d	102	BCL	C1D-ND	-3.56	1.33	1.37
7	O	101	BCL	CHD-C1D	3.56	1.45	1.38
7	A	101	BCL	C4B-NB	-3.56	1.33	1.37
8	r	102	A1EL2	C17-C16	3.55	1.44	1.35
7	P	101	BCL	CHD-C1D	3.55	1.45	1.38
7	g	102	BCL	C1D-ND	-3.55	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	O	102	A1ELD	C21-C22	-3.55	1.27	1.35
7	J	101	BCL	CHD-C1D	3.54	1.45	1.38
8	r	103	A1EL2	C14-C13	-3.52	1.32	1.43
9	O	102	A1ELD	C2-C3	3.52	1.58	1.53
7	i	101	BCL	C1D-ND	-3.50	1.33	1.37
9	e	101	A1ELD	C21-C22	3.50	1.43	1.35
8	r	103	A1EL2	C22-C21	-3.48	1.43	1.50
13	L	303	BPH	CHA-CBD	-3.47	1.47	1.51
7	M	403	BCL	C1D-ND	-3.46	1.33	1.37
8	r	102	A1EL2	C20-C21	3.46	1.43	1.35
8	O	103	A1EL2	C20-C21	3.46	1.43	1.35
7	M	403	BCL	OBD-CAD	3.46	1.28	1.22
8	O	103	A1EL2	C25-C26	3.45	1.43	1.35
9	O	102	A1ELD	C12-C27	-3.44	1.34	1.45
8	O	103	A1EL2	C13-C12	3.44	1.43	1.35
7	K	101	BCL	CHD-C1D	3.43	1.45	1.38
7	M	403	BCL	CHC-C4B	3.42	1.47	1.39
7	G	101	BCL	CHD-C1D	3.41	1.45	1.38
8	r	103	A1EL2	C14-C15	-3.41	1.25	1.34
7	E	101	BCL	CHD-C1D	3.40	1.45	1.38
7	R	101	BCL	C4B-NB	-3.40	1.33	1.37
7	B	101	BCL	CHB-C1B	3.39	1.47	1.39
7	S	101	BCL	CHB-C1B	3.38	1.47	1.39
9	o	101	A1ELD	C8-C3	-3.37	1.33	1.45
7	O	101	BCL	C4B-NB	-3.37	1.33	1.37
7	B	101	BCL	CHD-C1D	3.37	1.45	1.38
8	r	103	A1EL2	C13-C12	-3.36	1.28	1.35
9	e	101	A1ELD	C24-C22	-3.36	1.38	1.46
9	j	101	A1ELD	C7-C6	-3.36	1.47	1.52
8	G	102	A1EL2	C23-C21	-3.36	1.38	1.46
7	D	101	BCL	CHD-C1D	3.36	1.45	1.38
9	O	102	A1ELD	C18-C16	-3.36	1.28	1.35
9	B	103	A1ELD	C33-C32	-3.36	1.44	1.50
7	P	101	BCL	C4B-NB	-3.36	1.33	1.37
7	Q	101	BCL	CHD-C1D	3.35	1.44	1.38
7	L	301	BCL	CHC-C4B	3.35	1.46	1.39
7	c	101	BCL	OBD-CAD	3.35	1.28	1.22
8	r	102	A1EL2	C13-C12	3.35	1.43	1.35
7	F	101	BCL	CHB-C4A	-3.33	1.29	1.37
7	M	401	BCL	CHD-C1D	3.33	1.44	1.38
7	j	102	BCL	CHD-C1D	3.33	1.44	1.38
8	r	103	A1EL2	C25-C26	-3.32	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	O	103	A1EL2	C28-C26	-3.32	1.38	1.46
7	Q	101	BCL	CHB-C1B	3.32	1.46	1.39
7	k	101	BCL	CHB-C1B	3.32	1.46	1.39
7	a	101	BCL	CHB-C1B	3.32	1.46	1.39
7	S	101	BCL	C4B-NB	-3.31	1.33	1.37
8	Q	102	A1EL2	C14-C15	3.31	1.43	1.34
7	E	101	BCL	CHB-C1B	3.31	1.46	1.39
7	I	101	BCL	C4B-NB	-3.31	1.33	1.37
9	e	101	A1ELD	C18-C16	3.30	1.43	1.35
7	J	101	BCL	OBD-CAD	3.30	1.28	1.22
8	O	103	A1EL2	C17-C16	3.29	1.43	1.35
7	p	101	BCL	OBD-CAD	3.29	1.28	1.22
8	r	103	A1EL2	C24-C25	-3.29	1.33	1.43
7	M	401	BCL	C1D-ND	-3.28	1.33	1.37
7	j	102	BCL	OBD-CAD	3.28	1.28	1.22
9	B	103	A1ELD	O42-C41	-3.28	1.32	1.43
7	N	101	BCL	CHD-C1D	3.27	1.44	1.38
9	R	102	A1ELD	C38-C37	-3.27	1.45	1.52
7	E	101	BCL	C4B-NB	-3.27	1.33	1.37
8	J	102	A1EL2	C22-C21	-3.27	1.44	1.50
7	O	101	BCL	OBD-CAD	3.27	1.28	1.22
7	o	102	BCL	CHB-C1B	3.26	1.46	1.39
9	e	101	A1ELD	C15-C16	-3.26	1.39	1.46
9	B	103	A1ELD	C24-C22	-3.26	1.39	1.46
7	C	101	BCL	OBD-CAD	3.25	1.28	1.22
7	j	102	BCL	CHC-C4B	3.25	1.46	1.39
9	o	101	A1ELD	C20-C19	3.25	1.45	1.36
7	K	101	BCL	OBD-CAD	3.25	1.28	1.22
8	I	102	A1EL2	C25-C26	3.25	1.43	1.35
7	d	102	BCL	OBD-CAD	3.24	1.28	1.22
9	d	101	A1ELD	C24-C22	-3.24	1.39	1.46
7	I	101	BCL	CHD-C1D	3.24	1.44	1.38
8	r	103	A1EL2	C24-C23	-3.23	1.26	1.34
7	B	101	BCL	C4B-NB	-3.23	1.33	1.37
8	r	103	A1EL2	C19-C18	-3.23	1.27	1.36
8	J	102	A1EL2	C17-C16	-3.23	1.28	1.35
7	g	102	BCL	CHB-C1B	3.23	1.46	1.39
7	R	101	BCL	CHD-C1D	3.23	1.44	1.38
7	F	101	BCL	C3D-C2D	3.22	1.47	1.39
7	D	101	BCL	OBD-CAD	3.22	1.28	1.22
8	P	102	A1EL2	C2-C3	3.22	1.39	1.34
7	n	101	BCL	CHB-C1B	3.22	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	k	101	BCL	OBD-CAD	3.22	1.28	1.22
7	Q	101	BCL	C4B-NB	-3.22	1.33	1.37
7	P	101	BCL	OBD-CAD	3.21	1.28	1.22
7	L	302	BCL	CHB-C1B	3.21	1.46	1.39
8	J	102	A1EL2	C15-C16	3.21	1.52	1.46
7	n	101	BCL	C4B-NB	-3.21	1.33	1.37
7	N	101	BCL	OBD-CAD	3.21	1.28	1.22
9	R	102	A1ELD	O42-C41	-3.20	1.33	1.43
7	R	101	BCL	OBD-CAD	3.20	1.28	1.22
7	C	101	BCL	CHD-C1D	3.20	1.44	1.38
9	J	103	A1ELD	C9-C10	-3.20	1.39	1.46
7	F	101	BCL	C3B-C4B	3.19	1.47	1.41
7	K	101	BCL	CHB-C1B	3.19	1.46	1.39
7	o	102	BCL	OBD-CAD	3.19	1.28	1.22
7	p	101	BCL	CHC-C4B	3.19	1.46	1.39
8	G	102	A1EL2	C5-C6	3.19	1.56	1.52
7	A	101	BCL	CHD-C1D	3.19	1.44	1.38
7	r	104	BCL	OBD-CAD	3.18	1.28	1.22
7	g	102	BCL	CHC-C4B	3.18	1.46	1.39
7	f	102	BCL	CHB-C1B	3.18	1.46	1.39
7	b	102	BCL	CHB-C1B	3.18	1.46	1.39
7	e	102	BCL	CHB-C1B	3.18	1.46	1.39
7	N	101	BCL	C4B-NB	-3.17	1.33	1.37
9	R	102	A1ELD	C34-C35	3.17	1.40	1.32
8	K	102	A1EL2	C5-C6	-3.17	1.47	1.52
8	Q	102	A1EL2	C7-C6	-3.16	1.46	1.52
7	Q	101	BCL	OBD-CAD	3.16	1.27	1.22
7	L	302	BCL	OBD-CAD	3.16	1.27	1.22
7	A	101	BCL	OBD-CAD	3.16	1.27	1.22
7	g	102	BCL	OBD-CAD	3.16	1.27	1.22
7	M	401	BCL	CHC-C4B	3.16	1.46	1.39
7	a	101	BCL	CHD-C1D	3.16	1.44	1.38
7	r	104	BCL	CHB-C1B	3.14	1.46	1.39
7	I	101	BCL	CHB-C1B	3.14	1.46	1.39
7	p	101	BCL	CHD-C1D	3.14	1.44	1.38
7	q	102	BCL	CHC-C4B	3.14	1.46	1.39
9	d	101	A1ELD	C34-C32	-3.14	1.39	1.46
9	f	101	A1ELD	C9-C10	-3.14	1.39	1.46
7	L	302	BCL	CHD-C1D	3.14	1.44	1.38
7	b	102	BCL	CHC-C4B	3.14	1.46	1.39
7	k	101	BCL	CHC-C4B	3.13	1.46	1.39
7	r	104	BCL	CHC-C4B	3.13	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	b	102	BCL	OBD-CAD	3.13	1.27	1.22
7	p	101	BCL	CHB-C1B	3.13	1.46	1.39
7	F	101	BCL	CHC-C4B	3.12	1.46	1.39
7	G	101	BCL	OBD-CAD	3.11	1.27	1.22
7	c	101	BCL	CHD-C1D	3.11	1.44	1.38
7	f	102	BCL	CHC-C4B	3.11	1.46	1.39
7	d	102	BCL	CHC-C4B	3.11	1.46	1.39
7	L	301	BCL	C4B-NB	-3.11	1.33	1.37
7	L	301	BCL	CHD-C1D	3.10	1.44	1.38
8	J	102	A1EL2	C33-C34	-3.10	1.48	1.52
7	r	104	BCL	CHD-C1D	3.10	1.44	1.38
9	e	101	A1ELD	C13-C10	3.10	1.43	1.35
7	n	101	BCL	OBD-CAD	3.10	1.27	1.22
7	i	101	BCL	CHC-C4B	3.09	1.46	1.39
7	L	302	BCL	C4B-NB	-3.09	1.33	1.37
7	S	101	BCL	CHD-C1D	3.08	1.44	1.38
7	i	101	BCL	CHB-C1B	3.08	1.46	1.39
8	O	103	A1EL2	C27-C26	-3.07	1.44	1.50
8	J	102	A1EL2	C19-C18	-3.07	1.27	1.36
7	o	102	BCL	C3D-C2D	3.07	1.47	1.39
9	g	101	A1ELD	C30-C29	3.07	1.42	1.34
7	K	101	BCL	C1B-NB	-3.07	1.33	1.37
7	M	403	BCL	CHD-C1D	3.07	1.44	1.38
7	g	102	BCL	CHD-C1D	3.07	1.44	1.38
7	s	101	BCL	CHD-C1D	3.07	1.44	1.38
7	o	102	BCL	CHC-C4B	3.07	1.46	1.39
7	q	102	BCL	C4B-NB	-3.06	1.33	1.37
7	L	301	BCL	CHB-C1B	3.06	1.46	1.39
7	d	102	BCL	CHD-C1D	3.06	1.44	1.38
7	s	101	BCL	CHC-C4B	3.05	1.46	1.39
9	O	102	A1ELD	C25-C24	-3.05	1.26	1.34
7	e	102	BCL	C4B-NB	-3.05	1.33	1.37
7	s	101	BCL	C4B-NB	-3.04	1.33	1.37
8	r	103	A1EL2	C20-C21	-3.04	1.28	1.35
7	q	102	BCL	CHD-C1D	3.04	1.44	1.38
9	d	101	A1ELD	C15-C16	-3.04	1.39	1.46
8	G	102	A1EL2	C11-C12	-3.04	1.39	1.46
9	R	102	A1ELD	C30-C29	3.04	1.42	1.34
7	j	102	BCL	CHB-C1B	3.04	1.46	1.39
7	S	101	BCL	OBD-CAD	3.04	1.27	1.22
7	s	101	BCL	CHB-C1B	3.04	1.46	1.39
7	c	101	BCL	C3D-C2D	3.03	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	g	101	A1ELD	C31-C32	3.03	1.42	1.35
7	p	101	BCL	C3D-C2D	3.03	1.47	1.39
7	o	102	BCL	CHD-C1D	3.02	1.44	1.38
7	d	102	BCL	CHB-C1B	3.02	1.46	1.39
7	M	401	BCL	CHB-C1B	3.02	1.46	1.39
7	L	301	BCL	C1B-NB	-3.02	1.33	1.37
7	e	102	BCL	CHC-C4B	3.02	1.46	1.39
7	q	102	BCL	CHB-C1B	3.02	1.46	1.39
7	L	302	BCL	C3D-C2D	3.02	1.47	1.39
9	J	103	A1ELD	C13-C10	3.02	1.42	1.35
7	D	101	BCL	CHB-C1B	3.02	1.46	1.39
7	B	101	BCL	OBD-CAD	3.01	1.27	1.22
7	g	102	BCL	C4B-NB	-3.01	1.33	1.37
8	Q	102	A1EL2	C32-C31	-3.01	1.46	1.51
7	k	101	BCL	CHD-C1D	3.01	1.44	1.38
7	G	101	BCL	C4B-NB	-3.00	1.33	1.37
7	S	101	BCL	C3D-C2D	3.00	1.47	1.39
7	b	102	BCL	C4B-NB	-3.00	1.33	1.37
7	M	401	BCL	OBD-CAD	3.00	1.27	1.22
7	b	102	BCL	CHD-C1D	3.00	1.44	1.38
7	E	101	BCL	C3D-C2D	2.99	1.47	1.39
8	r	103	A1EL2	C17-C16	-2.99	1.28	1.35
7	K	101	BCL	C4B-NB	-2.99	1.33	1.37
7	e	102	BCL	CHD-C1D	2.99	1.44	1.38
9	C	102	A1ELD	C30-C29	2.99	1.42	1.34
7	C	101	BCL	CHC-C4B	2.99	1.46	1.39
8	Q	102	A1EL2	C24-C23	2.98	1.42	1.34
9	R	102	A1ELD	C19-C18	2.98	1.52	1.43
7	G	101	BCL	C1B-NB	-2.98	1.33	1.37
7	D	101	BCL	CHC-C4B	2.98	1.46	1.39
7	d	102	BCL	C3D-C2D	2.98	1.47	1.39
8	P	102	A1EL2	C32-C33	2.98	1.57	1.52
7	G	101	BCL	CHB-C1B	2.98	1.46	1.39
8	Q	102	A1EL2	C15-C16	-2.98	1.39	1.46
7	K	101	BCL	C3D-C2D	2.98	1.47	1.39
7	i	101	BCL	OBD-CAD	2.98	1.27	1.22
7	f	102	BCL	OBD-CAD	2.97	1.27	1.22
7	G	101	BCL	C3D-C2D	2.97	1.47	1.39
7	L	302	BCL	CHC-C4B	2.97	1.46	1.39
7	A	101	BCL	CHB-C1B	2.97	1.46	1.39
7	f	102	BCL	CHD-C1D	2.96	1.44	1.38
7	f	102	BCL	C3D-C2D	2.96	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	e	102	BCL	OBD-CAD	2.96	1.27	1.22
7	n	101	BCL	C3D-C2D	2.96	1.47	1.39
7	O	101	BCL	C3D-C2D	2.96	1.47	1.39
7	d	102	BCL	C4B-NB	-2.96	1.34	1.37
7	r	104	BCL	C4B-NB	-2.96	1.34	1.37
7	M	403	BCL	CHB-C1B	2.95	1.46	1.39
9	C	102	A1ELD	C31-C32	2.95	1.42	1.35
8	Q	102	A1EL2	C24-C25	-2.95	1.34	1.43
7	C	101	BCL	C3D-C2D	2.95	1.47	1.39
7	A	101	BCL	C1B-NB	-2.95	1.34	1.37
9	O	102	A1ELD	C26-C27	-2.94	1.31	1.41
7	N	101	BCL	C3D-C2D	2.94	1.47	1.39
9	A	103	A1ELD	C9-C10	-2.94	1.39	1.46
7	P	101	BCL	C3D-C2D	2.93	1.47	1.39
7	i	101	BCL	CHD-C1D	2.93	1.44	1.38
7	J	101	BCL	C3D-C2D	2.93	1.47	1.39
7	N	101	BCL	CHB-C1B	2.93	1.46	1.39
7	a	101	BCL	C3D-C2D	2.93	1.47	1.39
7	n	101	BCL	CHD-C1D	2.93	1.44	1.38
9	R	102	A1ELD	C9-C8	2.92	1.41	1.33
7	k	101	BCL	C3D-C2D	2.92	1.47	1.39
7	a	101	BCL	C4B-NB	-2.92	1.34	1.37
7	r	104	BCL	C3D-C2D	2.92	1.46	1.39
7	B	101	BCL	C3D-C2D	2.92	1.46	1.39
7	L	301	BCL	C1D-ND	-2.92	1.34	1.37
7	a	101	BCL	CHC-C4B	2.91	1.46	1.39
8	J	102	A1EL2	C23-C21	2.91	1.52	1.46
7	q	102	BCL	OBD-CAD	2.91	1.27	1.22
7	p	101	BCL	C4B-NB	-2.91	1.34	1.37
7	f	102	BCL	C4B-NB	-2.91	1.34	1.37
7	N	101	BCL	C1B-NB	-2.91	1.34	1.37
7	D	101	BCL	C3D-C2D	2.91	1.46	1.39
7	S	101	BCL	MG-NA	-2.91	1.99	2.06
7	j	102	BCL	C3D-C2D	2.91	1.46	1.39
7	s	101	BCL	OBD-CAD	2.90	1.27	1.22
7	g	102	BCL	C3D-C2D	2.90	1.46	1.39
7	R	101	BCL	C3D-C2D	2.90	1.46	1.39
8	O	103	A1EL2	C29-C28	2.90	1.41	1.33
7	e	102	BCL	C3D-C2D	2.90	1.46	1.39
7	q	102	BCL	C3D-C2D	2.89	1.46	1.39
13	L	305	BPH	C4D-CHA	2.89	1.43	1.39
7	I	101	BCL	C3D-C2D	2.88	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Q	101	BCL	C3D-C2D	2.87	1.46	1.39
7	n	101	BCL	CHC-C4B	2.87	1.45	1.39
7	R	101	BCL	C1D-ND	-2.87	1.34	1.37
8	F	102	A1EL2	C11-C12	-2.86	1.39	1.46
8	D	102	A1EL2	C11-C12	-2.86	1.39	1.46
8	E	102	A1EL2	C11-C12	-2.86	1.39	1.46
8	D	102	A1EL2	C28-C26	-2.85	1.39	1.46
9	J	103	A1ELD	C24-C22	-2.85	1.39	1.46
7	s	101	BCL	C1B-NB	-2.85	1.34	1.37
7	d	102	BCL	C1B-NB	-2.85	1.34	1.37
7	P	101	BCL	CHC-C4B	2.84	1.45	1.39
8	O	103	A1EL2	C15-C16	-2.84	1.39	1.46
8	C	103	A1EL2	C11-C12	-2.84	1.39	1.46
8	C	103	A1EL2	C28-C26	-2.84	1.39	1.46
7	C	101	BCL	CHB-C1B	2.84	1.45	1.39
8	N	102	A1EL2	C11-C12	-2.84	1.39	1.46
8	G	102	A1EL2	C17-C16	2.84	1.42	1.35
9	d	101	A1ELD	C29-C27	-2.84	1.38	1.45
8	A	102	A1EL2	C11-C12	-2.83	1.39	1.46
8	B	102	A1EL2	C11-C12	-2.83	1.39	1.46
7	c	101	BCL	CHC-C4B	2.83	1.45	1.39
7	L	302	BCL	MG-NA	-2.83	1.99	2.06
7	A	101	BCL	C3D-C2D	2.83	1.46	1.39
7	o	102	BCL	C4B-NB	-2.83	1.34	1.37
8	E	102	A1EL2	C28-C26	-2.82	1.39	1.46
7	L	301	BCL	C3D-C2D	2.82	1.46	1.39
7	e	102	BCL	C1B-NB	-2.82	1.34	1.37
7	I	101	BCL	CHC-C4B	2.82	1.45	1.39
7	E	101	BCL	C1D-ND	-2.82	1.34	1.37
8	N	102	A1EL2	C28-C26	-2.82	1.39	1.46
7	F	101	BCL	C3A-C2A	-2.82	1.46	1.54
7	b	102	BCL	C3D-C2D	2.82	1.46	1.39
9	o	101	A1ELD	C11-C10	2.82	1.56	1.50
7	a	101	BCL	C1B-NB	-2.81	1.34	1.37
8	Q	102	A1EL2	C19-C18	2.81	1.43	1.36
8	A	102	A1EL2	C28-C26	-2.81	1.39	1.46
7	M	403	BCL	C3D-C2D	2.81	1.46	1.39
7	i	101	BCL	C4B-NB	-2.81	1.34	1.37
7	N	101	BCL	C1D-ND	-2.81	1.34	1.37
8	r	103	A1EL2	C5-C6	-2.81	1.48	1.52
7	I	101	BCL	C1D-ND	-2.80	1.34	1.37
9	e	101	A1ELD	C30-C31	-2.80	1.34	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	F	102	A1EL2	C28-C26	-2.80	1.40	1.46
7	C	101	BCL	C1B-NB	-2.80	1.34	1.37
8	B	102	A1EL2	C28-C26	-2.80	1.40	1.46
7	s	101	BCL	C3D-C2D	2.80	1.46	1.39
7	i	101	BCL	C3D-C2D	2.80	1.46	1.39
7	c	101	BCL	C4B-NB	-2.80	1.34	1.37
7	R	101	BCL	CHB-C1B	2.80	1.45	1.39
9	R	103	A1ELD	C9-C10	-2.80	1.40	1.46
7	O	101	BCL	CHC-C4B	2.80	1.45	1.39
8	O	103	A1EL2	C22-C21	-2.80	1.45	1.50
7	A	101	BCL	CHC-C1C	-2.80	1.30	1.37
7	a	101	BCL	OBD-CAD	2.80	1.27	1.22
7	B	101	BCL	C1D-ND	-2.79	1.34	1.37
9	B	103	A1ELD	C26-C27	-2.79	1.32	1.41
9	b	101	A1ELD	C13-C10	2.79	1.42	1.35
7	P	101	BCL	C1B-NB	-2.78	1.34	1.37
7	r	104	BCL	C1B-NB	-2.78	1.34	1.37
9	O	102	A1ELD	C39-C37	2.78	1.58	1.52
7	S	101	BCL	C1D-ND	-2.78	1.34	1.37
9	q	101	A1ELD	C9-C10	-2.78	1.40	1.46
7	o	102	BCL	C1B-NB	-2.78	1.34	1.37
7	j	102	BCL	C4B-NB	-2.77	1.34	1.37
9	f	101	A1ELD	C24-C22	-2.77	1.40	1.46
7	c	101	BCL	CHB-C1B	2.77	1.45	1.39
7	G	101	BCL	C1D-ND	-2.77	1.34	1.37
7	i	101	BCL	C1B-NB	-2.77	1.34	1.37
7	J	101	BCL	CHB-C1B	2.77	1.45	1.39
7	R	101	BCL	CHC-C4B	2.76	1.45	1.39
7	J	101	BCL	C1B-NB	-2.76	1.34	1.37
8	J	102	A1EL2	C14-C13	2.76	1.51	1.43
7	J	101	BCL	C1D-ND	-2.76	1.34	1.37
7	B	101	BCL	CHC-C4B	2.76	1.45	1.39
7	k	101	BCL	C4B-NB	-2.76	1.34	1.37
7	q	102	BCL	C1B-NB	-2.76	1.34	1.37
7	G	101	BCL	CHC-C4B	2.75	1.45	1.39
7	O	101	BCL	CHB-C1B	2.75	1.45	1.39
7	J	101	BCL	MG-NA	-2.75	1.99	2.06
7	D	101	BCL	C1B-NB	-2.74	1.34	1.37
7	n	101	BCL	C1B-NB	-2.74	1.34	1.37
9	b	101	A1ELD	C9-C10	-2.74	1.40	1.46
7	C	101	BCL	C1D-ND	-2.74	1.34	1.37
7	E	101	BCL	CHC-C4B	2.74	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	K	102	A1EL2	C23-C21	-2.74	1.40	1.46
7	R	101	BCL	C1B-NB	-2.74	1.34	1.37
7	f	102	BCL	C1B-NB	-2.74	1.34	1.37
7	O	101	BCL	MG-NA	-2.73	1.99	2.06
7	Q	101	BCL	C1D-ND	-2.73	1.34	1.37
7	P	101	BCL	CHB-C1B	2.73	1.45	1.39
7	F	101	BCL	CHB-C1B	2.73	1.45	1.39
7	A	101	BCL	C1D-ND	-2.73	1.34	1.37
7	Q	101	BCL	CHC-C4B	2.72	1.45	1.39
7	A	101	BCL	CHC-C4B	2.72	1.45	1.39
7	P	101	BCL	C1D-ND	-2.72	1.34	1.37
7	N	101	BCL	CHC-C4B	2.72	1.45	1.39
7	O	101	BCL	C1B-NB	-2.71	1.34	1.37
7	B	101	BCL	C1B-NB	-2.71	1.34	1.37
9	R	102	A1ELD	C20-C21	2.71	1.51	1.43
7	I	101	BCL	C1B-NB	-2.71	1.34	1.37
13	L	303	BPH	C2C-C3C	-2.71	1.52	1.54
8	Q	102	A1EL2	C9-C4	2.71	1.58	1.53
7	g	102	BCL	C1B-NB	-2.70	1.34	1.37
8	G	102	A1EL2	C15-C16	-2.70	1.40	1.46
7	R	101	BCL	MG-NA	-2.70	1.99	2.06
8	O	103	A1EL2	C24-C23	2.70	1.41	1.34
9	r	101	A1ELD	C9-C10	-2.70	1.40	1.46
7	O	101	BCL	C1D-ND	-2.69	1.34	1.37
7	E	101	BCL	MG-NA	-2.69	1.99	2.06
7	M	401	BCL	C3D-C2D	2.69	1.46	1.39
7	J	101	BCL	CHC-C4B	2.69	1.45	1.39
7	D	101	BCL	C1D-ND	-2.69	1.34	1.37
14	L	306	UQ8	C3-C2	-2.68	1.41	1.48
8	Q	102	A1EL2	C36-C35	2.68	1.59	1.54
8	I	102	A1EL2	C39-C16	-2.68	1.45	1.50
7	E	101	BCL	OBD-CAD	2.68	1.27	1.22
7	p	101	BCL	C1B-NB	-2.67	1.34	1.37
7	J	101	BCL	CHD-C4C	2.67	1.46	1.39
7	L	302	BCL	C1B-NB	-2.67	1.34	1.37
7	D	101	BCL	CHD-C4C	2.66	1.46	1.39
7	D	101	BCL	MG-NA	-2.66	2.00	2.06
7	F	101	BCL	MG-NA	-2.65	2.00	2.06
7	I	101	BCL	MG-NA	-2.65	2.00	2.06
7	I	101	BCL	OBD-CAD	2.65	1.27	1.22
7	S	101	BCL	CHC-C4B	2.65	1.45	1.39
7	F	101	BCL	CHD-C1D	2.64	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	102	A1EL2	O2-C34	2.64	1.47	1.42
11	G	103	PGV	O01-C02	-2.64	1.43	1.46
7	j	102	BCL	C1B-NB	-2.63	1.34	1.37
7	K	101	BCL	C1D-ND	-2.63	1.34	1.37
9	e	101	A1ELD	C25-C24	2.63	1.41	1.34
7	P	101	BCL	CHD-C4C	2.63	1.46	1.39
7	M	403	BCL	MG-NA	-2.63	2.00	2.06
13	L	305	BPH	C3A-C2A	-2.62	1.52	1.54
8	O	103	A1EL2	C11-C10	2.62	1.40	1.33
13	L	303	BPH	C4B-NB	-2.61	1.33	1.38
7	O	101	BCL	CHD-C4C	2.61	1.46	1.39
9	j	101	A1ELD	C44-C2	-2.61	1.48	1.53
7	M	403	BCL	C4B-NB	-2.61	1.34	1.37
7	F	101	BCL	CHC-C1C	-2.60	1.31	1.37
7	C	101	BCL	C3C-C4C	-2.60	1.48	1.51
7	i	101	BCL	C3C-C4C	-2.60	1.48	1.51
8	G	102	A1EL2	C9-C4	2.60	1.58	1.53
7	D	101	BCL	C1D-C2D	2.59	1.50	1.45
13	L	303	BPH	C1D-ND	-2.59	1.33	1.38
7	A	101	BCL	MG-NA	-2.59	2.00	2.06
8	Q	102	A1EL2	C5-C6	2.59	1.56	1.52
7	F	101	BCL	C2C-C3C	-2.58	1.47	1.54
7	M	403	BCL	CHD-C4C	2.58	1.46	1.39
13	L	305	BPH	C4D-ND	-2.58	1.34	1.38
12	G	104	LMT	O3'-C3'	-2.57	1.36	1.43
7	E	101	BCL	C1D-C2D	2.57	1.50	1.45
7	E	101	BCL	CHD-C4C	2.56	1.46	1.39
7	K	101	BCL	CHD-C4C	2.56	1.46	1.39
7	J	101	BCL	C1D-C2D	2.56	1.50	1.45
7	P	101	BCL	MG-NA	-2.56	2.00	2.06
8	r	102	A1EL2	C14-C15	2.56	1.41	1.34
7	Q	101	BCL	C1B-NB	-2.56	1.34	1.37
8	K	102	A1EL2	C28-C26	-2.56	1.40	1.46
7	F	101	BCL	MG-ND	-2.56	2.00	2.05
9	B	103	A1ELD	C9-C10	-2.55	1.40	1.46
12	N	103	LMT	O3'-C3'	-2.55	1.36	1.43
7	b	102	BCL	C1B-NB	-2.55	1.34	1.37
7	G	101	BCL	CHD-C4C	2.55	1.46	1.39
7	R	101	BCL	CHD-C4C	2.54	1.46	1.39
7	F	101	BCL	C3C-C4C	-2.54	1.48	1.51
11	L	307	PGV	O03-C19	2.54	1.45	1.33
7	N	101	BCL	MG-NA	-2.54	2.00	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	D	102	A1EL2	C15-C16	-2.53	1.40	1.46
9	e	101	A1ELD	C30-C29	2.53	1.41	1.34
7	K	101	BCL	CHC-C4B	2.53	1.45	1.39
8	B	102	A1EL2	C15-C16	-2.53	1.40	1.46
9	o	101	A1ELD	C5-C6	-2.53	1.47	1.52
9	b	101	A1ELD	C18-C16	2.53	1.41	1.35
7	n	101	BCL	MG-NA	-2.52	2.00	2.06
8	C	103	A1EL2	C15-C16	-2.52	1.40	1.46
7	I	101	BCL	CHD-C4C	2.52	1.46	1.39
9	J	103	A1ELD	C34-C32	-2.52	1.40	1.46
7	P	101	BCL	C1D-C2D	2.52	1.50	1.45
7	S	101	BCL	C1B-NB	-2.51	1.34	1.37
8	E	102	A1EL2	C15-C16	-2.51	1.40	1.46
8	G	102	A1EL2	C36-C35	2.51	1.59	1.54
7	k	101	BCL	C1B-NB	-2.51	1.34	1.37
8	A	102	A1EL2	C15-C16	-2.51	1.40	1.46
8	I	102	A1EL2	C13-C12	2.51	1.41	1.35
7	c	101	BCL	CHB-C4A	-2.50	1.31	1.37
7	Q	101	BCL	C1B-C2B	2.50	1.49	1.43
9	o	101	A1ELD	C4-C3	-2.49	1.30	1.34
9	J	103	A1ELD	C15-C16	-2.49	1.40	1.46
7	Q	101	BCL	CHD-C4C	2.49	1.46	1.39
9	j	101	A1ELD	C33-C32	-2.49	1.45	1.50
7	C	101	BCL	MG-NA	-2.49	2.00	2.06
7	N	101	BCL	CHD-C4C	2.49	1.46	1.39
8	O	103	A1EL2	C32-C33	-2.49	1.48	1.52
9	A	103	A1ELD	C24-C22	-2.49	1.40	1.46
9	A	103	A1ELD	C15-C16	-2.48	1.40	1.46
9	R	102	A1ELD	C20-C19	-2.48	1.29	1.36
8	F	102	A1EL2	C15-C16	-2.48	1.40	1.46
8	r	103	A1EL2	C31-C30	2.48	1.38	1.34
8	I	102	A1EL2	C38-C31	-2.48	1.47	1.50
7	B	101	BCL	CHD-C4C	2.48	1.46	1.39
9	e	101	A1ELD	C17-C16	-2.47	1.45	1.50
7	O	101	BCL	C1D-C2D	2.47	1.50	1.45
7	q	102	BCL	C3C-C4C	-2.47	1.48	1.51
14	L	304	UQ8	C3-C2	-2.47	1.41	1.48
7	E	101	BCL	C1B-NB	-2.47	1.34	1.37
8	G	102	A1EL2	C13-C12	2.47	1.41	1.35
8	N	102	A1EL2	C15-C16	-2.47	1.40	1.46
7	M	401	BCL	CHB-C4A	-2.47	1.31	1.37
7	Q	101	BCL	C1D-C2D	2.46	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L	309	LMT	O3'-C3'	-2.46	1.36	1.43
7	n	101	BCL	C3C-C4C	-2.46	1.48	1.51
7	B	101	BCL	C1D-C2D	2.46	1.50	1.45
8	G	102	A1EL2	C20-C21	2.46	1.41	1.35
7	S	101	BCL	CHD-C4C	2.46	1.46	1.39
7	K	101	BCL	CHC-C1C	-2.46	1.31	1.37
8	J	102	A1EL2	C14-C15	-2.45	1.28	1.34
9	g	101	A1ELD	C4-C3	2.45	1.38	1.34
7	S	101	BCL	CHC-C1C	-2.45	1.31	1.37
7	B	101	BCL	MG-NA	-2.45	2.00	2.06
13	L	303	BPH	CBD-CGD	-2.45	1.49	1.52
8	N	102	A1EL2	C23-C21	-2.44	1.40	1.46
7	L	302	BCL	CHC-C1C	-2.44	1.31	1.37
7	C	101	BCL	CHD-C4C	2.44	1.46	1.39
9	f	101	A1ELD	C15-C16	-2.44	1.40	1.46
8	r	102	A1EL2	C24-C23	2.44	1.41	1.34
8	P	102	A1EL2	C37-C35	2.44	1.59	1.54
13	L	303	BPH	C1B-NB	-2.44	1.34	1.38
7	j	102	BCL	CHD-C4C	2.44	1.46	1.39
8	G	102	A1EL2	C4-C3	-2.44	1.50	1.53
8	r	102	A1EL2	C14-C13	-2.44	1.35	1.43
9	R	103	A1ELD	C13-C10	2.44	1.41	1.35
14	L	306	UQ8	C4-C5	-2.43	1.41	1.48
7	M	401	BCL	C4B-NB	-2.43	1.34	1.37
8	C	103	A1EL2	C23-C21	-2.43	1.40	1.46
14	L	304	UQ8	C4-C5	-2.43	1.41	1.48
7	Q	101	BCL	MG-NA	-2.42	2.00	2.06
8	J	102	A1EL2	C20-C21	-2.42	1.30	1.35
14	M	402	UQ8	C4-C5	-2.42	1.41	1.48
8	K	102	A1EL2	C18-C17	-2.42	1.35	1.43
8	I	102	A1EL2	C10-C3	2.42	1.53	1.45
7	E	101	BCL	C1B-C2B	2.42	1.48	1.43
9	R	103	A1ELD	C21-C22	2.42	1.41	1.35
9	b	101	A1ELD	C30-C29	2.42	1.41	1.34
7	S	101	BCL	C1B-C2B	2.42	1.48	1.43
8	O	103	A1EL2	C14-C15	2.41	1.41	1.34
9	g	101	A1ELD	C21-C22	2.41	1.41	1.35
7	K	101	BCL	MG-NA	-2.41	2.00	2.06
8	D	102	A1EL2	C23-C21	-2.41	1.40	1.46
7	s	101	BCL	CHD-C4C	2.41	1.46	1.39
9	R	102	A1ELD	C11-C10	-2.41	1.46	1.50
7	B	101	BCL	CHC-C1C	-2.41	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	401	BCL	C1D-C2D	2.41	1.50	1.45
7	C	101	BCL	C1D-C2D	2.40	1.50	1.45
7	S	101	BCL	C1D-C2D	2.40	1.50	1.45
9	J	103	A1ELD	C33-C32	-2.40	1.46	1.50
8	E	102	A1EL2	C23-C21	-2.40	1.40	1.46
7	K	101	BCL	C1D-C2D	2.40	1.50	1.45
7	R	101	BCL	MG-NC	-2.40	2.00	2.06
9	b	101	A1ELD	C34-C32	-2.40	1.40	1.46
7	B	101	BCL	C1B-C2B	2.40	1.48	1.43
7	r	104	BCL	CHD-C4C	2.40	1.45	1.39
8	B	102	A1EL2	C23-C21	-2.39	1.40	1.46
7	L	301	BCL	OBD-CAD	2.39	1.26	1.22
8	A	102	A1EL2	C23-C21	-2.39	1.40	1.46
9	e	101	A1ELD	C11-C10	-2.39	1.46	1.50
9	J	103	A1ELD	C36-C37	2.39	1.56	1.52
9	R	103	A1ELD	C18-C16	2.39	1.41	1.35
7	L	302	BCL	CHD-C4C	2.38	1.45	1.39
9	f	101	A1ELD	C13-C10	2.38	1.41	1.35
8	r	103	A1EL2	C7-C2	-2.38	1.47	1.51
9	R	103	A1ELD	C34-C32	-2.38	1.40	1.46
13	L	305	BPH	C1B-C2B	2.38	1.42	1.39
7	O	101	BCL	MG-NC	-2.37	2.00	2.06
9	R	103	A1ELD	C30-C29	2.37	1.40	1.34
16	M	405	H4X	C11-C12	-2.37	1.40	1.46
7	g	102	BCL	C3C-C4C	-2.37	1.48	1.51
8	Q	102	A1EL2	C19-C20	-2.37	1.35	1.43
9	b	101	A1ELD	C31-C32	2.37	1.41	1.35
7	e	102	BCL	C3C-C4C	-2.37	1.48	1.51
8	K	102	A1EL2	C14-C13	-2.37	1.35	1.43
8	F	102	A1EL2	C23-C21	-2.37	1.40	1.46
12	L	309	LMT	O2'-C2'	-2.36	1.37	1.43
8	O	103	A1EL2	C9-C4	-2.36	1.49	1.53
7	c	101	BCL	CHD-C4C	2.36	1.45	1.39
7	Q	101	BCL	CHC-C1C	-2.36	1.31	1.37
9	r	101	A1ELD	C34-C32	-2.36	1.40	1.46
7	G	101	BCL	C1D-C2D	2.35	1.50	1.45
9	A	103	A1ELD	C34-C32	-2.35	1.40	1.46
9	B	103	A1ELD	C39-C37	2.35	1.57	1.52
9	r	101	A1ELD	C30-C29	2.35	1.40	1.34
7	c	101	BCL	C3C-C4C	-2.35	1.48	1.51
7	i	101	BCL	MG-NA	-2.34	2.00	2.06
7	M	401	BCL	CHC-C1C	-2.34	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	C	101	BCL	C4B-NB	-2.34	1.34	1.37
9	d	101	A1ELD	C13-C10	2.34	1.41	1.35
8	r	102	A1EL2	C19-C20	-2.34	1.35	1.43
16	M	405	H4X	C30-C28	-2.34	1.41	1.46
7	p	101	BCL	CHD-C4C	2.34	1.45	1.39
8	P	102	A1EL2	C27-C26	2.34	1.55	1.50
9	e	101	A1ELD	C14-C15	2.34	1.40	1.34
7	d	102	BCL	C3C-C4C	-2.34	1.48	1.51
8	O	103	A1EL2	C23-C21	-2.34	1.41	1.46
7	q	102	BCL	CHD-C4C	2.33	1.45	1.39
14	M	402	UQ8	C3-C2	-2.33	1.42	1.48
9	J	103	A1ELD	C29-C27	-2.33	1.39	1.45
7	J	101	BCL	CHC-C1C	-2.33	1.31	1.37
8	K	102	A1EL2	C17-C16	2.33	1.41	1.35
7	E	101	BCL	CHC-C1C	-2.33	1.31	1.37
9	e	101	A1ELD	C7-C6	2.33	1.55	1.52
9	q	101	A1ELD	C30-C29	2.33	1.40	1.34
7	p	101	BCL	C3C-C4C	-2.33	1.48	1.51
7	G	101	BCL	CHC-C1C	-2.32	1.31	1.37
7	R	101	BCL	C1B-C2B	2.32	1.48	1.43
7	I	101	BCL	C1D-C2D	2.32	1.49	1.45
8	G	102	A1EL2	C7-C6	-2.32	1.48	1.52
8	J	102	A1EL2	C1-C2	2.32	1.54	1.50
7	e	102	BCL	MG-NA	-2.32	2.00	2.06
7	G	101	BCL	MG-NA	-2.32	2.00	2.06
7	R	101	BCL	C1D-C2D	2.31	1.49	1.45
7	L	301	BCL	CHD-C4C	2.31	1.45	1.39
9	O	102	A1ELD	C11-C10	-2.31	1.46	1.50
7	F	101	BCL	C1D-ND	-2.31	1.34	1.37
7	L	302	BCL	MG-NC	-2.31	2.00	2.06
9	r	101	A1ELD	C18-C16	2.31	1.41	1.35
7	b	102	BCL	MG-NA	-2.30	2.00	2.06
9	r	101	A1ELD	C15-C16	-2.30	1.41	1.46
16	M	405	H4X	C16-C17	-2.30	1.41	1.46
9	B	103	A1ELD	C20-C21	-2.30	1.36	1.43
8	J	102	A1EL2	C28-C26	2.30	1.50	1.46
7	a	101	BCL	CHD-C4C	2.30	1.45	1.39
9	r	101	A1ELD	C24-C22	-2.30	1.41	1.46
9	r	101	A1ELD	C13-C10	2.30	1.41	1.35
7	A	101	BCL	C1B-C2B	2.30	1.48	1.43
9	b	101	A1ELD	C21-C22	2.30	1.41	1.35
9	q	101	A1ELD	C34-C32	-2.29	1.41	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	N	101	BCL	C1D-C2D	2.29	1.49	1.45
16	M	405	H4X	C25-C23	-2.29	1.41	1.46
9	q	101	A1ELD	C15-C16	-2.29	1.41	1.46
8	r	102	A1EL2	C29-C28	2.29	1.39	1.33
7	d	102	BCL	CHD-C4C	2.29	1.45	1.39
7	P	101	BCL	MG-NC	-2.29	2.00	2.06
8	I	102	A1EL2	C29-C28	2.29	1.39	1.33
7	b	102	BCL	C1B-C2B	2.29	1.48	1.43
7	o	102	BCL	CHD-C4C	2.29	1.45	1.39
9	e	101	A1ELD	C14-C13	-2.28	1.36	1.43
9	r	101	A1ELD	C21-C22	2.28	1.41	1.35
7	J	101	BCL	CHB-C4A	-2.28	1.32	1.37
7	r	104	BCL	C3C-C4C	-2.28	1.48	1.51
7	M	401	BCL	CHD-C4C	2.28	1.45	1.39
8	P	102	A1EL2	C10-C3	-2.28	1.37	1.45
9	e	101	A1ELD	C23-C22	-2.27	1.46	1.50
9	q	101	A1ELD	C13-C10	2.27	1.41	1.35
7	L	301	BCL	CHB-C4A	-2.27	1.32	1.37
7	A	101	BCL	CHD-C4C	2.27	1.45	1.39
7	g	102	BCL	CHD-C4C	2.27	1.45	1.39
9	q	101	A1ELD	C21-C22	2.26	1.41	1.35
12	G	104	LMT	O2'-C2'	-2.26	1.37	1.43
7	J	101	BCL	MG-NC	-2.26	2.00	2.06
7	R	101	BCL	CHC-C1C	-2.26	1.32	1.37
7	i	101	BCL	CHD-C4C	2.26	1.45	1.39
8	I	102	A1EL2	C2-C3	2.26	1.38	1.34
9	q	101	A1ELD	C24-C22	-2.25	1.41	1.46
7	I	101	BCL	C1B-C2B	2.25	1.48	1.43
9	j	101	A1ELD	C36-C35	2.25	1.53	1.50
9	R	102	A1ELD	C21-C22	-2.25	1.30	1.35
9	e	101	A1ELD	C31-C32	2.25	1.41	1.35
9	q	101	A1ELD	C31-C32	2.25	1.41	1.35
7	a	101	BCL	C3C-C4C	-2.25	1.48	1.51
7	M	403	BCL	C1B-C2B	2.25	1.48	1.43
7	P	101	BCL	CHC-C1C	-2.25	1.32	1.37
7	O	101	BCL	C1B-C2B	2.24	1.48	1.43
7	f	102	BCL	C3C-C4C	-2.24	1.48	1.51
7	n	101	BCL	CHD-C4C	2.24	1.45	1.39
7	K	101	BCL	C1B-C2B	2.24	1.48	1.43
7	k	101	BCL	C3C-C4C	-2.24	1.48	1.51
7	b	102	BCL	C3C-C4C	-2.24	1.48	1.51
7	n	101	BCL	CHC-C1C	-2.24	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	G	104	LMT	O3B-C3B	-2.23	1.37	1.43
8	Q	102	A1EL2	C29-C28	2.23	1.39	1.33
9	R	103	A1ELD	C24-C22	-2.23	1.41	1.46
7	M	401	BCL	MG-NC	-2.23	2.01	2.06
7	s	101	BCL	C3C-C4C	-2.23	1.48	1.51
16	M	405	H4X	C27-C28	2.23	1.41	1.35
9	f	101	A1ELD	C29-C27	-2.23	1.39	1.45
7	A	101	BCL	MG-NC	-2.23	2.01	2.06
7	e	102	BCL	CHD-C4C	2.23	1.45	1.39
9	R	103	A1ELD	C31-C32	2.23	1.41	1.35
7	M	403	BCL	MG-NC	-2.23	2.01	2.06
7	k	101	BCL	CHD-C4C	2.23	1.45	1.39
7	f	102	BCL	CHD-C4C	2.23	1.45	1.39
12	L	309	LMT	O2B-C2B	-2.22	1.37	1.43
8	A	102	A1EL2	C17-C16	2.22	1.40	1.35
9	q	101	A1ELD	C18-C16	2.22	1.40	1.35
7	N	101	BCL	CHC-C1C	-2.22	1.32	1.37
7	G	101	BCL	MG-NC	-2.22	2.01	2.06
9	J	103	A1ELD	C7-C6	-2.22	1.49	1.52
8	E	102	A1EL2	C17-C16	2.22	1.40	1.35
12	G	104	LMT	O2B-C2B	-2.22	1.37	1.43
8	B	102	A1EL2	C17-C16	2.22	1.40	1.35
8	C	103	A1EL2	C17-C16	2.22	1.40	1.35
7	q	102	BCL	MG-NA	-2.22	2.01	2.06
8	F	102	A1EL2	C17-C16	2.21	1.40	1.35
7	I	101	BCL	CHC-C1C	-2.21	1.32	1.37
7	P	101	BCL	CHB-C4A	-2.21	1.32	1.37
7	a	101	BCL	CHC-C1C	-2.21	1.32	1.37
9	j	101	A1ELD	C15-C16	-2.21	1.41	1.46
8	O	103	A1EL2	O3-C33	-2.21	1.38	1.43
8	r	102	A1EL2	C25-C26	2.21	1.40	1.35
7	D	101	BCL	C3C-C4C	-2.21	1.48	1.51
8	D	102	A1EL2	C17-C16	2.21	1.40	1.35
9	e	101	A1ELD	C36-C35	-2.21	1.46	1.50
9	r	101	A1ELD	C31-C32	2.21	1.40	1.35
16	M	405	H4X	C19-C17	2.21	1.40	1.35
7	M	403	BCL	CHB-C4A	-2.21	1.32	1.37
12	N	103	LMT	O3B-C3B	-2.20	1.37	1.43
8	N	102	A1EL2	C13-C12	2.20	1.40	1.35
9	f	101	A1ELD	C34-C32	-2.20	1.41	1.46
9	B	103	A1ELD	C15-C16	-2.20	1.41	1.46
9	C	102	A1ELD	C21-C22	2.20	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	F	101	BCL	C4D-CHA	2.20	1.45	1.38
9	b	101	A1ELD	C24-C22	-2.20	1.41	1.46
12	L	309	LMT	O3B-C3B	-2.20	1.37	1.43
7	O	101	BCL	CHC-C1C	-2.20	1.32	1.37
7	b	102	BCL	CHD-C4C	2.20	1.45	1.39
16	M	405	H4X	C14-C12	2.19	1.40	1.35
7	C	101	BCL	CHB-C4A	-2.19	1.32	1.37
8	N	102	A1EL2	C17-C16	2.19	1.40	1.35
7	d	102	BCL	CHB-C4A	-2.18	1.32	1.37
7	b	102	BCL	CHC-C1C	-2.18	1.32	1.37
12	N	103	LMT	O2B-C2B	-2.18	1.37	1.43
12	N	103	LMT	O2'-C2'	-2.18	1.37	1.43
16	M	405	H4X	C22-C23	2.18	1.40	1.35
7	N	101	BCL	C1B-C2B	2.18	1.48	1.43
7	R	101	BCL	CHB-C4A	-2.18	1.32	1.37
7	s	101	BCL	CHB-C4A	-2.18	1.32	1.37
7	d	102	BCL	MG-NA	-2.18	2.01	2.06
9	J	103	A1ELD	C18-C16	2.18	1.40	1.35
7	e	102	BCL	CHC-C1C	-2.18	1.32	1.37
9	O	102	A1ELD	C14-C15	-2.17	1.29	1.34
7	L	301	BCL	MG-NA	-2.17	2.01	2.06
8	I	102	A1EL2	C5-C6	2.17	1.55	1.52
9	d	101	A1ELD	C30-C31	-2.17	1.36	1.43
8	D	102	A1EL2	C13-C12	2.17	1.40	1.35
7	D	101	BCL	C1B-C2B	2.16	1.48	1.43
8	G	102	A1EL2	C25-C26	2.16	1.40	1.35
7	f	102	BCL	CHC-C1C	-2.16	1.32	1.37
8	D	102	A1EL2	C25-C26	2.16	1.40	1.35
9	A	103	A1ELD	C30-C29	2.16	1.40	1.34
7	e	102	BCL	MG-NC	-2.16	2.01	2.06
8	J	102	A1EL2	C24-C25	2.16	1.49	1.43
7	O	101	BCL	CHB-C4A	-2.16	1.32	1.37
9	g	101	A1ELD	C34-C32	-2.16	1.41	1.46
8	J	102	A1EL2	C4-C3	2.16	1.56	1.53
9	R	103	A1ELD	C15-C16	-2.15	1.41	1.46
8	A	102	A1EL2	C13-C12	2.15	1.40	1.35
8	r	103	A1EL2	C11-C10	-2.15	1.26	1.33
8	E	102	A1EL2	C13-C12	2.15	1.40	1.35
7	D	101	BCL	MG-NC	-2.15	2.01	2.06
7	G	101	BCL	CHB-C4A	-2.15	1.32	1.37
8	B	102	A1EL2	C20-C21	2.15	1.40	1.35
7	o	102	BCL	C1B-C2B	2.14	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	o	102	BCL	CHC-C1C	-2.14	1.32	1.37
8	C	103	A1EL2	C20-C21	2.14	1.40	1.35
8	C	103	A1EL2	C25-C26	2.14	1.40	1.35
7	g	102	BCL	MG-NA	-2.14	2.01	2.06
7	R	101	BCL	C3C-C4C	-2.14	1.48	1.51
9	A	103	A1ELD	C13-C10	2.14	1.40	1.35
8	F	102	A1EL2	C13-C12	2.14	1.40	1.35
7	M	401	BCL	C3C-C4C	-2.14	1.48	1.51
8	Q	102	A1EL2	O2-C34	2.14	1.47	1.42
8	B	102	A1EL2	C13-C12	2.14	1.40	1.35
8	K	102	A1EL2	C19-C20	-2.13	1.36	1.43
7	s	101	BCL	MG-NA	-2.13	2.01	2.06
8	G	102	A1EL2	C24-C25	-2.13	1.36	1.43
8	G	102	A1EL2	C19-C20	-2.13	1.36	1.43
8	P	102	A1EL2	C22-C21	2.13	1.55	1.50
8	A	102	A1EL2	C20-C21	2.13	1.40	1.35
9	A	103	A1ELD	C21-C22	2.13	1.40	1.35
8	N	102	A1EL2	C25-C26	2.13	1.40	1.35
8	C	103	A1EL2	C13-C12	2.13	1.40	1.35
7	A	101	BCL	C1D-C2D	2.13	1.49	1.45
8	B	102	A1EL2	C25-C26	2.12	1.40	1.35
8	E	102	A1EL2	C25-C26	2.12	1.40	1.35
7	P	101	BCL	C1B-C2B	2.12	1.48	1.43
9	e	101	A1ELD	C20-C19	2.12	1.42	1.36
9	C	102	A1ELD	C4-C3	2.12	1.38	1.34
8	E	102	A1EL2	C20-C21	2.12	1.40	1.35
7	M	403	BCL	C1B-NB	-2.12	1.35	1.37
7	q	102	BCL	CHB-C4A	-2.11	1.32	1.37
8	A	102	A1EL2	C25-C26	2.11	1.40	1.35
8	O	103	A1EL2	C19-C18	2.11	1.42	1.36
7	j	102	BCL	C3C-C4C	-2.11	1.48	1.51
9	A	103	A1ELD	C29-C27	-2.11	1.40	1.45
7	j	102	BCL	CHB-C4A	-2.11	1.32	1.37
9	A	103	A1ELD	C18-C16	2.11	1.40	1.35
7	o	102	BCL	C3C-C4C	-2.11	1.48	1.51
8	F	102	A1EL2	C25-C26	2.11	1.40	1.35
8	N	102	A1EL2	C20-C21	2.11	1.40	1.35
8	O	103	A1EL2	C36-C35	-2.11	1.49	1.54
7	o	102	BCL	MG-NA	-2.11	2.01	2.06
7	k	101	BCL	C1B-C2B	2.10	1.48	1.43
8	F	102	A1EL2	C20-C21	2.10	1.40	1.35
7	L	301	BCL	CHC-C1C	-2.10	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	g	101	A1ELD	C9-C10	-2.10	1.41	1.46
9	J	103	A1ELD	C9-C8	2.10	1.39	1.33
7	G	101	BCL	C1B-C2B	2.10	1.48	1.43
8	D	102	A1EL2	C20-C21	2.09	1.40	1.35
7	D	101	BCL	CHB-C4A	-2.09	1.32	1.37
7	N	101	BCL	CHB-C4A	-2.09	1.32	1.37
7	r	104	BCL	MG-NA	-2.09	2.01	2.06
7	p	101	BCL	CHB-C4A	-2.08	1.32	1.37
12	N	103	LMT	O1'-C1'	-2.08	1.36	1.40
7	s	101	BCL	CHC-C1C	-2.08	1.32	1.37
9	B	103	A1ELD	C19-C18	-2.08	1.36	1.43
8	Q	102	A1EL2	C11-C10	2.08	1.39	1.33
8	I	102	A1EL2	C11-C10	2.08	1.39	1.33
7	a	101	BCL	C1B-C2B	2.08	1.48	1.43
7	C	101	BCL	MG-NC	-2.08	2.01	2.06
9	O	102	A1ELD	C23-C22	-2.08	1.46	1.50
7	r	104	BCL	CHB-C4A	-2.08	1.32	1.37
7	Q	101	BCL	MG-NC	-2.08	2.01	2.06
7	q	102	BCL	CHC-C1C	-2.08	1.32	1.37
8	I	102	A1EL2	O2-C34	2.08	1.46	1.42
9	r	101	A1ELD	C29-C27	-2.08	1.40	1.45
7	i	101	BCL	MG-NC	-2.07	2.01	2.06
7	M	401	BCL	MG-NA	-2.07	2.01	2.06
7	L	302	BCL	CHB-C4A	-2.07	1.32	1.37
8	I	102	A1EL2	C29-C30	2.07	1.52	1.45
7	p	101	BCL	MG-NA	-2.07	2.01	2.06
8	P	102	A1EL2	O2-C34	2.07	1.46	1.42
9	O	102	A1ELD	O42-C37	2.07	1.53	1.41
8	r	102	A1EL2	C11-C10	2.06	1.39	1.33
7	C	101	BCL	C4D-CHA	2.06	1.45	1.38
7	i	101	BCL	CHB-C4A	-2.06	1.32	1.37
8	K	102	A1EL2	C38-C31	2.06	1.54	1.50
7	K	101	BCL	MG-NC	-2.06	2.01	2.06
9	b	101	A1ELD	C15-C16	-2.05	1.41	1.46
7	D	101	BCL	C4B-NB	-2.05	1.35	1.37
7	e	102	BCL	CHB-C4A	-2.05	1.32	1.37
7	f	102	BCL	MG-NA	-2.05	2.01	2.06
8	O	103	A1EL2	C7-C6	2.05	1.55	1.52
12	G	104	LMT	O1'-C1'	-2.05	1.36	1.40
9	A	103	A1ELD	C31-C32	2.05	1.40	1.35
9	o	101	A1ELD	C25-C24	2.05	1.40	1.34
9	J	103	A1ELD	C2-C3	-2.05	1.51	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	103	A1ELD	C29-C27	-2.04	1.40	1.45
7	A	101	BCL	CHB-C4A	-2.04	1.32	1.37
8	P	102	A1EL2	C40-C12	2.04	1.55	1.50
8	I	102	A1EL2	C4-C3	-2.04	1.51	1.53
7	g	102	BCL	CHB-C4A	-2.04	1.32	1.37
7	i	101	BCL	C1B-C2B	2.04	1.47	1.43
7	N	101	BCL	MG-NC	-2.04	2.01	2.06
12	N	103	LMT	O4'-C4B	-2.04	1.37	1.43
7	K	101	BCL	C4D-CHA	2.04	1.45	1.38
12	L	309	LMT	O4'-C4B	-2.04	1.37	1.43
7	f	102	BCL	C1B-C2B	2.04	1.47	1.43
7	b	102	BCL	MG-NC	-2.03	2.01	2.06
9	d	101	A1ELD	C17-C16	-2.03	1.46	1.50
9	q	101	A1ELD	C29-C27	-2.03	1.40	1.45
7	C	101	BCL	CHC-C1C	-2.03	1.32	1.37
12	L	309	LMT	O1'-C1'	-2.03	1.36	1.40
7	g	102	BCL	CHC-C1C	-2.03	1.32	1.37
7	N	101	BCL	C3C-C4C	-2.03	1.49	1.51
8	O	103	A1EL2	C39-C16	-2.03	1.46	1.50
7	J	101	BCL	C1B-C2B	2.03	1.47	1.43
7	M	401	BCL	C4D-CHA	2.03	1.45	1.38
7	f	102	BCL	CHB-C4A	-2.02	1.32	1.37
9	d	101	A1ELD	C23-C22	-2.02	1.46	1.50
8	I	102	A1EL2	C24-C23	2.02	1.40	1.34
9	R	102	A1ELD	C18-C16	-2.02	1.31	1.35
7	Q	101	BCL	C3C-C4C	-2.02	1.49	1.51
9	o	101	A1ELD	C23-C22	-2.02	1.46	1.50
7	L	301	BCL	MG-NC	-2.02	2.01	2.06
7	c	101	BCL	CHC-C1C	-2.02	1.32	1.37
9	d	101	A1ELD	C20-C21	-2.02	1.36	1.43
7	r	104	BCL	CHC-C1C	-2.01	1.32	1.37
9	d	101	A1ELD	C14-C13	-2.01	1.36	1.43
7	p	101	BCL	CHC-C1C	-2.01	1.32	1.37
12	G	104	LMT	O4'-C4B	-2.01	1.38	1.43
7	I	101	BCL	CHB-C4A	-2.01	1.32	1.37
7	A	101	BCL	C3C-C4C	-2.01	1.49	1.51
9	J	103	A1ELD	C14-C15	2.01	1.39	1.34
7	j	102	BCL	C1D-C2D	2.01	1.49	1.45
7	M	403	BCL	C1D-C2D	2.01	1.49	1.45
7	S	101	BCL	C4D-CHA	2.00	1.45	1.38
9	b	101	A1ELD	C29-C27	-2.00	1.40	1.45
7	e	102	BCL	C1B-C2B	2.00	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	n	101	BCL	CHB-C4A	-2.00	1.32	1.37
9	R	102	A1ELD	C25-C24	-2.00	1.29	1.34

All (1363) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	R	103	A1ELD	C25-C26-C27	12.01	142.76	127.28
8	J	102	A1EL2	C40-C12-C13	-10.22	106.26	122.82
9	R	102	A1ELD	C11-C10-C13	-10.11	106.44	122.82
9	R	102	A1ELD	C25-C26-C27	9.90	140.03	127.28
9	R	102	A1ELD	C33-C32-C31	-9.88	106.82	122.82
9	O	102	A1ELD	C25-C26-C27	9.85	139.97	127.28
9	g	101	A1ELD	C25-C26-C27	9.74	139.82	127.28
9	C	102	A1ELD	C25-C26-C27	9.73	139.81	127.28
8	J	102	A1EL2	C27-C26-C25	-9.56	107.33	122.82
9	b	101	A1ELD	C25-C26-C27	9.35	139.33	127.28
9	e	101	A1ELD	C25-C26-C27	9.31	139.27	127.28
9	d	101	A1ELD	C25-C26-C27	9.19	139.12	127.28
9	A	103	A1ELD	C25-C26-C27	9.13	139.04	127.28
9	J	103	A1ELD	C25-C26-C27	9.07	138.97	127.28
9	f	101	A1ELD	C25-C26-C27	9.02	138.90	127.28
9	r	101	A1ELD	C25-C26-C27	8.97	138.84	127.28
9	j	101	A1ELD	C25-C26-C27	8.90	138.75	127.28
8	J	102	A1EL2	C39-C16-C17	-8.75	108.64	122.82
8	J	102	A1EL2	C22-C21-C20	-8.55	108.97	122.82
9	q	101	A1ELD	C25-C26-C27	8.39	138.09	127.28
9	R	102	A1ELD	C30-C29-C27	8.29	141.34	127.30
9	R	102	A1ELD	C17-C16-C18	-8.16	109.60	122.82
8	J	102	A1EL2	C38-C31-C30	-8.05	115.70	124.48
7	M	401	BCL	CMD-C2D-C1D	8.01	138.83	124.73
7	D	101	BCL	CMD-C2D-C1D	7.89	138.63	124.73
9	B	103	A1ELD	C25-C26-C27	7.85	137.39	127.28
7	B	101	BCL	CMD-C2D-C1D	7.79	138.45	124.73
9	R	102	A1ELD	C34-C32-C31	7.76	131.22	119.01
9	R	102	A1ELD	C36-C35-C34	7.75	135.80	124.91
7	J	101	BCL	CMD-C2D-C1D	7.74	138.35	124.73
7	E	101	BCL	CMD-C2D-C1D	7.72	138.33	124.73
7	Q	101	BCL	CMD-C2D-C1D	7.65	138.20	124.73
9	R	102	A1ELD	C43-C4-C3	-7.63	116.16	124.48
9	o	101	A1ELD	C25-C26-C27	7.62	137.09	127.28
7	C	101	BCL	CMD-C2D-C1D	7.57	138.06	124.73
7	P	101	BCL	CMD-C2D-C1D	7.57	138.06	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	101	BCL	CMD-C2D-C1D	7.53	137.99	124.73
7	P	101	BCL	C2B-C1B-NB	7.51	118.12	110.33
7	I	101	BCL	CMD-C2D-C1D	7.47	137.88	124.73
7	G	101	BCL	CMD-C2D-C1D	7.45	137.85	124.73
7	O	101	BCL	CMD-C2D-C1D	7.43	137.82	124.73
9	O	102	A1ELD	C30-C29-C27	7.38	139.81	127.30
7	R	101	BCL	CMD-C2D-C1D	7.36	137.69	124.73
7	S	101	BCL	CMD-C2D-C1D	7.35	137.67	124.73
7	J	101	BCL	C2B-C1B-NB	7.34	117.93	110.33
7	F	101	BCL	CMD-C2D-C1D	7.31	137.61	124.73
7	O	101	BCL	C2B-C1B-NB	7.28	117.88	110.33
7	N	101	BCL	C2B-C1B-NB	7.28	117.87	110.33
7	N	101	BCL	CMD-C2D-C1D	7.24	137.47	124.73
9	R	102	A1ELD	C17-C16-C15	7.23	129.13	118.09
7	L	301	BCL	CMD-C2D-C1D	7.21	137.43	124.73
7	C	101	BCL	C2B-C1B-NB	7.14	117.73	110.33
7	G	101	BCL	C2B-C1B-NB	7.12	117.71	110.33
7	M	403	BCL	CMD-C2D-C1D	7.10	137.24	124.73
7	A	101	BCL	CMD-C2D-C1D	7.10	137.23	124.73
7	L	301	BCL	C2B-C1B-NB	7.08	117.67	110.33
8	J	102	A1EL2	C35-C30-C31	-7.06	112.42	122.57
7	A	101	BCL	C2B-C1B-NB	7.04	117.63	110.33
9	R	102	A1ELD	C8-C9-C10	7.04	136.65	126.23
7	d	102	BCL	C2B-C1B-NB	7.04	117.63	110.33
9	R	102	A1ELD	C23-C22-C21	-7.03	111.42	122.82
9	R	103	A1ELD	C30-C29-C27	7.01	139.18	127.30
9	R	102	A1ELD	C23-C22-C24	7.00	128.78	118.09
7	j	102	BCL	C2B-C1B-NB	6.96	117.55	110.33
7	R	101	BCL	C2B-C1B-NB	6.96	117.54	110.33
7	q	102	BCL	C2B-C1B-NB	6.93	117.52	110.33
7	D	101	BCL	C2B-C1B-NB	6.90	117.48	110.33
7	s	101	BCL	C2B-C1B-NB	6.89	117.48	110.33
7	I	101	BCL	C2B-C1B-NB	6.76	117.33	110.33
7	K	101	BCL	C2B-C1B-NB	6.76	117.33	110.33
7	p	101	BCL	C2B-C1B-NB	6.73	117.30	110.33
8	I	102	A1EL2	C40-C12-C13	-6.71	111.95	122.82
7	g	102	BCL	C2B-C1B-NB	6.70	117.28	110.33
8	J	102	A1EL2	C40-C12-C11	6.67	128.28	118.09
7	F	101	BCL	C2B-C1B-NB	6.65	117.23	110.33
7	r	104	BCL	C2B-C1B-NB	6.65	117.23	110.33
7	f	102	BCL	C2B-C1B-NB	6.63	117.20	110.33
7	o	102	BCL	C2B-C1B-NB	6.63	117.20	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	b	102	BCL	C2B-C1B-NB	6.63	117.20	110.33
8	r	103	A1EL2	O3-C33-C34	6.62	122.75	109.85
7	e	102	BCL	C2B-C1B-NB	6.61	117.18	110.33
7	M	401	BCL	C2B-C1B-NB	6.61	117.18	110.33
7	E	101	BCL	C2B-C1B-NB	6.60	117.17	110.33
9	r	101	A1ELD	C30-C29-C27	6.58	138.44	127.30
7	n	101	BCL	C2B-C1B-NB	6.55	117.12	110.33
7	M	403	BCL	C2B-C1B-NB	6.52	117.08	110.33
9	R	102	A1ELD	C43-C4-C5	6.50	126.38	114.42
7	i	101	BCL	C2B-C1B-NB	6.49	117.06	110.33
7	S	101	BCL	C2B-C1B-NB	6.49	117.05	110.33
7	s	101	BCL	CMD-C2D-C1D	6.46	136.11	124.73
9	R	102	A1ELD	C30-C31-C32	6.44	136.32	127.28
7	Q	101	BCL	C2B-C1B-NB	6.43	117.00	110.33
8	I	102	A1EL2	C39-C16-C17	-6.40	112.44	122.82
7	k	101	BCL	C2B-C1B-NB	6.38	116.95	110.33
13	L	303	BPH	C2B-C1B-NB	6.37	114.03	109.43
7	a	101	BCL	C2B-C1B-NB	6.32	116.88	110.33
9	O	102	A1ELD	C33-C32-C31	-6.31	112.59	122.82
7	j	102	BCL	CMD-C2D-C1D	6.29	135.81	124.73
7	i	101	BCL	CMD-C2D-C1D	6.26	135.75	124.73
9	R	102	A1ELD	C11-C10-C9	6.22	127.60	118.09
8	J	102	A1EL2	C39-C16-C15	6.19	127.54	118.09
7	d	102	BCL	CMD-C2D-C1D	6.17	135.60	124.73
7	r	104	BCL	CMD-C2D-C1D	6.17	135.60	124.73
7	B	101	BCL	C2B-C1B-NB	6.17	116.72	110.33
7	q	102	BCL	CMD-C2D-C1D	6.13	135.52	124.73
9	R	102	A1ELD	C35-C34-C32	6.10	135.10	125.89
9	C	102	A1ELD	C30-C29-C27	6.09	137.62	127.30
7	L	302	BCL	O2D-CGD-CBD	6.05	121.81	111.23
9	g	101	A1ELD	C30-C29-C27	6.04	137.54	127.30
9	R	102	A1ELD	O46-C6-C5	6.04	123.32	109.71
9	j	101	A1ELD	C30-C29-C27	6.02	137.49	127.30
7	c	101	BCL	C2B-C1B-NB	6.02	116.56	110.33
7	M	403	BCL	O2D-CGD-CBD	5.97	121.67	111.23
7	f	102	BCL	CMD-C2D-C1D	5.97	135.24	124.73
13	L	303	BPH	O2D-CGD-CBD	5.94	117.47	110.95
7	D	101	BCL	CHD-C1D-ND	-5.94	116.45	124.80
7	L	302	BCL	CMD-C2D-C1D	5.91	135.14	124.73
9	B	103	A1ELD	C33-C32-C31	-5.90	113.25	122.82
7	a	101	BCL	CMD-C2D-C1D	5.90	135.11	124.73
7	b	102	BCL	CMD-C2D-C1D	5.89	135.10	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	r	103	A1EL2	C40-C12-C11	5.81	126.96	118.09
7	c	101	BCL	CMD-C2D-C1D	5.80	134.95	124.73
9	b	101	A1ELD	C30-C29-C27	5.80	137.12	127.30
7	J	101	BCL	CHD-C1D-ND	-5.76	116.69	124.80
7	p	101	BCL	CMD-C2D-C1D	5.76	134.88	124.73
7	L	302	BCL	C2B-C1B-NB	5.76	116.30	110.33
7	n	101	BCL	CMD-C2D-C1D	5.75	134.86	124.73
9	O	102	A1ELD	C11-C10-C13	-5.75	113.51	122.82
7	L	301	BCL	CED-O2D-CGD	5.74	128.94	115.92
8	J	102	A1EL2	C32-C33-C34	-5.73	103.19	110.30
9	J	103	A1ELD	C30-C29-C27	5.73	137.00	127.30
7	F	101	BCL	C3D-C2D-C1D	-5.73	98.02	105.83
7	S	101	BCL	CHD-C1D-ND	-5.72	116.75	124.80
13	L	303	BPH	CMC-C2C-C1C	5.71	126.91	114.61
7	g	102	BCL	CMD-C2D-C1D	5.71	134.78	124.73
7	E	101	BCL	CHD-C1D-ND	-5.69	116.79	124.80
7	B	101	BCL	CHD-C1D-ND	-5.68	116.81	124.80
9	R	102	A1ELD	C6-C5-C4	5.67	126.28	112.18
9	B	103	A1ELD	C30-C29-C27	5.65	136.87	127.30
7	e	102	BCL	CMD-C2D-C1D	5.65	134.68	124.73
8	I	102	A1EL2	C27-C26-C25	-5.63	113.69	122.82
9	O	102	A1ELD	C17-C16-C18	-5.63	113.70	122.82
7	M	401	BCL	O2D-CGD-CBD	5.63	121.06	111.23
9	A	103	A1ELD	C30-C29-C27	5.62	136.81	127.30
9	f	101	A1ELD	C30-C29-C27	5.61	136.80	127.30
9	d	101	A1ELD	C30-C29-C27	5.60	136.79	127.30
7	C	101	BCL	CHD-C1D-ND	-5.60	116.92	124.80
8	J	102	A1EL2	C28-C26-C25	5.58	127.79	119.01
7	O	101	BCL	CHD-C1D-ND	-5.57	116.96	124.80
7	I	101	BCL	CHD-C1D-ND	-5.53	117.02	124.80
9	O	102	A1ELD	C23-C22-C21	-5.52	113.87	122.82
7	P	101	BCL	CHD-C1D-ND	-5.52	117.04	124.80
7	M	401	BCL	CHD-C1D-ND	-5.52	117.04	124.80
7	G	101	BCL	CHD-C1D-ND	-5.51	117.05	124.80
8	I	102	A1EL2	C19-C18-C17	5.50	134.78	123.52
7	Q	101	BCL	CHD-C1D-ND	-5.48	117.08	124.80
8	r	103	A1EL2	C27-C26-C25	-5.45	113.99	122.82
7	K	101	BCL	CHD-C1D-ND	-5.44	117.14	124.80
7	N	101	BCL	CHD-C1D-ND	-5.43	117.17	124.80
7	R	101	BCL	CHD-C1D-ND	-5.42	117.18	124.80
7	k	101	BCL	CMD-C2D-C1D	5.37	134.19	124.73
8	I	102	A1EL2	C22-C21-C20	-5.37	114.11	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	J	101	BCL	O2D-CGD-CBD	5.37	120.62	111.23
7	A	101	BCL	C3D-C2D-C1D	-5.36	98.51	105.83
7	C	101	BCL	C3D-C2D-C1D	-5.35	98.52	105.83
7	B	101	BCL	C3D-C2D-C1D	-5.34	98.54	105.83
7	M	403	BCL	CHD-C1D-ND	-5.33	117.29	124.80
9	O	102	A1ELD	C34-C32-C31	5.33	127.40	119.01
8	r	103	A1EL2	O2-C34-C33	5.33	119.88	109.54
9	R	102	A1ELD	C2-C3-C4	-5.31	115.37	122.64
8	I	102	A1EL2	C38-C31-C30	-5.30	118.70	124.48
7	o	102	BCL	CMD-C2D-C1D	5.29	134.05	124.73
8	J	102	A1EL2	C22-C21-C23	5.27	126.14	118.09
7	Q	101	BCL	C3D-C2D-C1D	-5.25	98.66	105.83
7	I	101	BCL	C3D-C2D-C1D	-5.24	98.68	105.83
7	S	101	BCL	C4A-NA-C1A	5.22	109.06	106.68
7	i	101	BCL	C3C-C4C-CHD	-5.20	112.42	123.39
13	L	305	BPH	CMC-C2C-C1C	-5.18	103.44	114.61
7	R	101	BCL	C3D-C2D-C1D	-5.18	98.76	105.83
7	E	101	BCL	C3D-C2D-C1D	-5.18	98.77	105.83
7	D	101	BCL	C3D-C2D-C1D	-5.18	98.77	105.83
7	G	101	BCL	C3D-C2D-C1D	-5.17	98.77	105.83
9	e	101	A1ELD	C30-C29-C27	5.17	136.05	127.30
7	N	101	BCL	C3D-C2D-C1D	-5.15	98.80	105.83
7	i	101	BCL	CHD-C1D-ND	-5.14	117.57	124.80
11	G	103	PGV	O01-C1-O02	-5.13	119.12	125.70
7	i	101	BCL	C3D-C2D-C1D	-5.12	98.84	105.83
7	S	101	BCL	C3D-C2D-C1D	-5.12	98.84	105.83
7	d	102	BCL	CHD-C1D-ND	-5.11	117.60	124.80
13	L	303	BPH	C4A-C3A-C2A	-5.10	97.99	102.84
9	R	102	A1ELD	C2-C3-C8	5.09	129.45	115.65
7	c	101	BCL	CHD-C1D-ND	-5.09	117.64	124.80
7	K	101	BCL	C3D-C2D-C1D	-5.09	98.89	105.83
7	A	101	BCL	CHD-C1D-ND	-5.08	117.66	124.80
7	L	301	BCL	O2D-CGD-CBD	5.06	120.08	111.23
7	q	102	BCL	CHD-C1D-ND	-5.06	117.69	124.80
9	O	102	A1ELD	C36-C35-C34	5.01	131.95	124.91
7	L	301	BCL	CHD-C1D-ND	-4.98	117.79	124.80
7	O	101	BCL	C3D-C2D-C1D	-4.98	99.03	105.83
7	P	101	BCL	C3D-C2D-C1D	-4.98	99.03	105.83
7	j	102	BCL	CHD-C1D-ND	-4.98	117.79	124.80
13	L	305	BPH	C4D-CHA-CBD	-4.97	106.07	108.45
8	O	103	A1EL2	C19-C18-C17	4.97	133.69	123.52
7	p	101	BCL	CHD-C1D-ND	-4.96	117.82	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	n	101	BCL	CHD-C1D-ND	-4.96	117.83	124.80
7	f	102	BCL	C3D-C2D-C1D	-4.94	99.09	105.83
7	J	101	BCL	C3D-C2D-C1D	-4.94	99.10	105.83
7	s	101	BCL	CHD-C1D-ND	-4.92	117.87	124.80
7	q	102	BCL	C3D-C2D-C1D	-4.92	99.12	105.83
7	r	104	BCL	CHD-C1D-ND	-4.91	117.89	124.80
7	M	401	BCL	C3D-C2D-C1D	-4.90	99.15	105.83
8	J	102	A1EL2	C10-C11-C12	4.86	133.43	126.23
7	f	102	BCL	CHD-C1D-ND	-4.86	117.96	124.80
7	L	301	BCL	C3D-C2D-C1D	-4.85	99.21	105.83
7	n	101	BCL	C3C-C4C-CHD	-4.85	113.17	123.39
7	L	302	BCL	CHD-C1D-ND	-4.83	118.00	124.80
7	K	101	BCL	C3B-C4B-NB	4.83	116.13	109.76
7	e	102	BCL	O2D-CGD-CBD	4.81	119.64	111.23
7	j	102	BCL	O2D-CGD-CBD	4.80	119.61	111.23
9	O	102	A1ELD	C11-C10-C9	4.79	125.40	118.09
7	d	102	BCL	C3D-C2D-C1D	-4.77	99.32	105.83
8	Q	102	A1EL2	C19-C18-C17	4.77	133.28	123.52
7	F	101	BCL	C3C-C4C-CHD	-4.76	113.35	123.39
7	e	102	BCL	C3C-C4C-CHD	-4.76	113.36	123.39
7	e	102	BCL	C3D-C2D-C1D	-4.75	99.34	105.83
7	a	101	BCL	C3D-C2D-C1D	-4.74	99.36	105.83
7	c	101	BCL	C3D-C2D-C1D	-4.74	99.36	105.83
7	n	101	BCL	C3D-C2D-C1D	-4.74	99.36	105.83
7	s	101	BCL	C3D-C2D-C1D	-4.72	99.38	105.83
7	k	101	BCL	O2D-CGD-CBD	4.71	119.46	111.23
7	b	102	BCL	C3C-C4C-CHD	-4.70	113.49	123.39
7	D	101	BCL	C1D-ND-C4D	-4.70	103.02	106.31
9	R	103	A1ELD	C19-C20-C21	4.69	133.12	123.52
7	C	101	BCL	C3C-C4C-CHD	-4.69	113.50	123.39
7	g	102	BCL	CHD-C1D-ND	-4.68	118.21	124.80
7	g	102	BCL	C3C-C4C-CHD	-4.68	113.52	123.39
8	I	102	A1EL2	C28-C26-C25	4.68	126.37	119.01
7	S	101	BCL	C3C-C4C-CHD	-4.67	113.55	123.39
7	F	101	BCL	CHD-C1D-ND	-4.67	118.24	124.80
7	k	101	BCL	C3C-C4C-CHD	-4.66	113.56	123.39
7	b	102	BCL	CHD-C1D-ND	-4.66	118.25	124.80
7	f	102	BCL	C3C-C4C-CHD	-4.66	113.57	123.39
7	A	101	BCL	C1D-ND-C4D	-4.65	103.05	106.31
7	r	104	BCL	O2D-CGD-CBD	4.65	119.37	111.23
7	e	102	BCL	CHD-C1D-ND	-4.64	118.27	124.80
7	d	102	BCL	C3C-C4C-CHD	-4.64	113.61	123.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	a	101	BCL	CHD-C1D-ND	-4.64	118.28	124.80
7	q	102	BCL	C3C-C4C-CHD	-4.63	113.63	123.39
7	p	101	BCL	O2D-CGD-CBD	4.62	119.31	111.23
7	r	104	BCL	C3D-C2D-C1D	-4.62	99.53	105.83
7	A	101	BCL	C3B-C4B-NB	4.62	115.85	109.76
7	A	101	BCL	C2D-C1D-ND	4.61	114.69	110.13
7	r	104	BCL	C3C-C4C-CHD	-4.61	113.68	123.39
8	J	102	A1EL2	C29-C28-C26	4.60	133.04	126.23
7	M	403	BCL	C3D-C2D-C1D	-4.60	99.55	105.83
7	p	101	BCL	C3D-C2D-C1D	-4.59	99.56	105.83
7	k	101	BCL	CHD-C1D-ND	-4.59	118.34	124.80
7	o	102	BCL	C3D-C2D-C1D	-4.59	99.57	105.83
7	c	101	BCL	O2D-CGD-CBD	4.58	119.24	111.23
7	M	401	BCL	CED-O2D-CGD	4.58	126.30	115.92
7	D	101	BCL	C3C-C4C-CHD	-4.58	113.74	123.39
7	k	101	BCL	C3D-C2D-C1D	-4.57	99.59	105.83
7	o	102	BCL	C3C-C4C-CHD	-4.57	113.75	123.39
9	o	101	A1ELD	C17-C16-C15	-4.57	111.10	118.09
7	G	101	BCL	C3B-C4B-NB	4.57	115.79	109.76
8	I	102	A1EL2	C10-C11-C12	4.57	132.99	126.23
7	b	102	BCL	C3D-C2D-C1D	-4.56	99.60	105.83
7	g	102	BCL	C3D-C2D-C1D	-4.55	99.62	105.83
8	I	102	A1EL2	C15-C16-C17	4.55	126.16	119.01
7	o	102	BCL	CHD-C1D-ND	-4.53	118.43	124.80
7	N	101	BCL	C3B-C4B-NB	4.52	115.73	109.76
8	I	102	A1EL2	C35-C30-C31	-4.51	116.09	122.57
7	s	101	BCL	C3C-C4C-CHD	-4.50	113.91	123.39
8	J	102	A1EL2	C19-C18-C17	4.50	132.72	123.52
7	S	101	BCL	C3B-C4B-NB	4.48	115.67	109.76
9	O	102	A1ELD	C23-C22-C24	4.48	124.93	118.09
7	j	102	BCL	C3D-C2D-C1D	-4.48	99.72	105.83
8	r	103	A1EL2	C1-C2-C3	4.47	129.36	124.48
7	i	101	BCL	C2D-C1D-ND	4.46	114.54	110.13
8	r	102	A1EL2	C19-C18-C17	4.45	132.62	123.52
8	J	102	A1EL2	C27-C26-C28	4.45	124.88	118.09
7	L	301	BCL	C3C-C4C-CHD	-4.44	114.02	123.39
8	J	102	A1EL2	C24-C25-C26	4.44	133.51	127.28
7	d	102	BCL	O2D-CGD-CBD	4.43	118.98	111.23
7	c	101	BCL	C3C-C4C-CHD	-4.43	114.04	123.39
9	O	102	A1ELD	C30-C31-C32	4.42	133.48	127.28
7	a	101	BCL	C3C-C4C-CHD	-4.42	114.06	123.39
7	B	101	BCL	C3B-C4B-NB	4.42	115.59	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	P	102	A1EL2	C9-C4-C3	4.41	117.16	110.24
7	i	101	BCL	C1D-ND-C4D	-4.41	103.22	106.31
9	R	102	A1ELD	C9-C10-C13	4.41	125.94	119.01
7	g	102	BCL	O2D-CGD-CBD	4.41	118.93	111.23
7	p	101	BCL	C3C-C4C-CHD	-4.41	114.10	123.39
7	M	403	BCL	C3C-C4C-CHD	-4.39	114.13	123.39
7	C	101	BCL	C2D-C1D-ND	4.39	114.47	110.13
7	M	401	BCL	CHC-C4B-NB	-4.38	117.48	124.05
7	N	101	BCL	C3C-C4C-CHD	-4.38	114.16	123.39
9	C	102	A1ELD	C11-C10-C13	-4.38	115.73	122.82
7	R	101	BCL	C1D-ND-C4D	-4.37	103.24	106.31
7	Q	101	BCL	C3B-C4B-NB	4.37	115.53	109.76
7	I	101	BCL	C3C-C4C-CHD	-4.37	114.18	123.39
7	D	101	BCL	C2D-C1D-ND	4.36	114.44	110.13
7	q	102	BCL	O2D-CGD-CBD	4.35	118.83	111.23
7	L	302	BCL	C3D-C2D-C1D	-4.34	99.90	105.83
7	M	401	BCL	C3C-C4C-CHD	-4.34	114.24	123.39
9	O	102	A1ELD	C17-C16-C15	4.34	124.71	118.09
11	D	103	PGV	O01-C1-C2	4.34	120.86	111.48
7	M	403	BCL	C1D-ND-C4D	-4.34	103.27	106.31
7	M	401	BCL	C1C-NC-C4C	-4.32	104.71	106.68
8	r	103	A1EL2	C8-C4-C3	4.31	117.00	110.24
7	b	102	BCL	O2D-CGD-CBD	4.31	118.77	111.23
7	E	101	BCL	C3B-C4B-NB	4.31	115.44	109.76
7	I	101	BCL	C3B-C4B-NB	4.31	115.44	109.76
9	R	102	A1ELD	C44-C2-C3	-4.30	103.50	110.24
8	r	103	A1EL2	C9-C4-C8	-4.30	96.32	108.63
7	a	101	BCL	O2D-CGD-CBD	4.30	118.75	111.23
7	o	102	BCL	O2D-CGD-CBD	4.30	118.74	111.23
11	L	308	PGV	O01-C1-C2	4.29	120.77	111.48
7	j	102	BCL	C3C-C4C-CHD	-4.28	114.37	123.39
11	F	103	PGV	O01-C1-C2	4.28	120.73	111.48
7	R	101	BCL	C3C-C4C-CHD	-4.28	114.38	123.39
8	F	102	A1EL2	C19-C18-C17	4.28	132.27	123.52
8	I	102	A1EL2	C23-C21-C20	4.27	125.73	119.01
9	g	101	A1ELD	C11-C10-C13	-4.27	115.89	122.82
7	R	101	BCL	C2D-C1D-ND	4.27	114.35	110.13
7	F	101	BCL	C1C-NC-C4C	-4.27	104.73	106.68
7	B	101	BCL	C2D-C1D-ND	4.26	114.34	110.13
8	A	102	A1EL2	C19-C18-C17	4.25	132.22	123.52
8	E	102	A1EL2	C19-C18-C17	4.25	132.22	123.52
8	C	103	A1EL2	C19-C18-C17	4.25	132.21	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	B	102	A1EL2	C19-C18-C17	4.25	132.21	123.52
7	I	101	BCL	C2D-C1D-ND	4.24	114.33	110.13
9	R	102	A1ELD	C14-C13-C10	4.24	133.23	127.28
7	I	101	BCL	C1D-ND-C4D	-4.24	103.34	106.31
8	P	102	A1EL2	C27-C26-C28	4.24	124.56	118.09
8	D	102	A1EL2	C19-C18-C17	4.23	132.18	123.52
8	r	103	A1EL2	C4-C3-C2	4.23	128.41	122.64
7	Q	101	BCL	C1D-ND-C4D	-4.22	103.35	106.31
7	S	101	BCL	C2D-C1D-ND	4.22	114.30	110.13
7	Q	101	BCL	C2D-C1D-ND	4.21	114.30	110.13
7	S	101	BCL	C1D-ND-C4D	-4.21	103.36	106.31
7	i	101	BCL	O2D-CGD-CBD	4.21	118.59	111.23
7	N	101	BCL	C2D-C1D-ND	4.19	114.28	110.13
7	A	101	BCL	C3C-C4C-CHD	-4.19	114.55	123.39
7	S	101	BCL	O2D-CGD-CBD	4.19	118.55	111.23
7	d	102	BCL	C2D-C1D-ND	4.19	114.27	110.13
7	Q	101	BCL	C3C-C4C-CHD	-4.18	114.57	123.39
7	f	102	BCL	C1-C2-C3	-4.18	119.35	126.20
9	e	101	A1ELD	C20-C19-C18	4.18	132.07	123.52
9	j	101	A1ELD	C11-C10-C9	4.17	124.46	118.09
8	J	102	A1EL2	C35-C30-C29	4.17	127.01	115.68
7	D	101	BCL	C3B-C4B-NB	4.17	115.26	109.76
9	j	101	A1ELD	C33-C32-C31	-4.16	116.07	122.82
7	P	101	BCL	C3B-C4B-NB	4.16	115.25	109.76
8	I	102	A1EL2	C11-C12-C13	4.16	125.55	119.01
7	D	101	BCL	CHC-C4B-NB	-4.16	117.81	124.05
7	J	101	BCL	C3B-C4B-NB	4.16	115.24	109.76
7	n	101	BCL	O2D-CGD-CBD	4.15	118.49	111.23
7	C	101	BCL	C1D-ND-C4D	-4.13	103.41	106.31
8	I	102	A1EL2	C14-C13-C12	4.13	133.07	127.28
7	B	101	BCL	C3C-C4C-CHD	-4.13	114.69	123.39
7	d	102	BCL	C1D-ND-C4D	-4.12	103.42	106.31
7	G	101	BCL	C3C-C4C-CHD	-4.12	114.71	123.39
7	O	101	BCL	C3B-C4B-NB	4.11	115.18	109.76
8	J	102	A1EL2	C11-C12-C13	4.10	125.46	119.01
11	M	408	PGV	O01-C1-C2	4.10	120.34	111.48
7	D	101	BCL	O2D-CGD-CBD	4.10	118.39	111.23
8	J	102	A1EL2	C1-C2-C3	-4.09	120.02	124.48
7	q	102	BCL	C2D-C1D-ND	4.09	114.17	110.13
8	G	102	A1EL2	C19-C18-C17	4.09	131.88	123.52
7	B	101	BCL	C1D-ND-C4D	-4.08	103.45	106.31
7	f	102	BCL	O2D-CGD-CBD	4.08	118.36	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	101	BCL	C3C-C4C-CHD	-4.08	114.80	123.39
7	O	101	BCL	C1D-ND-C4D	-4.07	103.45	106.31
7	R	101	BCL	C3B-C4B-NB	4.07	115.14	109.76
7	o	102	BCL	C2D-C1D-ND	4.07	114.15	110.13
7	k	101	BCL	C2D-C1D-ND	4.06	114.14	110.13
7	G	101	BCL	C2D-C1D-ND	4.05	114.14	110.13
9	o	101	A1ELD	C20-C19-C18	4.05	131.81	123.52
7	e	102	BCL	C2D-C1D-ND	4.05	114.14	110.13
9	j	101	A1ELD	C11-C10-C13	-4.05	116.26	122.82
8	r	103	A1EL2	C38-C31-C30	4.05	128.90	124.48
7	J	101	BCL	C1D-ND-C4D	-4.04	103.47	106.31
11	L	307	PGV	O01-C1-C2	4.03	120.20	111.48
11	T	303	PGV	O01-C1-C2	4.03	120.19	111.48
7	f	102	BCL	C2D-C1D-ND	4.03	114.11	110.13
7	b	102	BCL	C1D-ND-C4D	-4.02	103.49	106.31
7	E	101	BCL	C3C-C4C-CHD	-4.02	114.92	123.39
7	E	101	BCL	C4A-NA-C1A	4.00	108.51	106.68
7	k	101	BCL	C1D-ND-C4D	-4.00	103.50	106.31
8	r	103	A1EL2	O3-C33-C32	-3.99	100.53	109.38
7	A	101	BCL	CHC-C4B-NB	-3.98	118.08	124.05
7	N	101	BCL	C1D-ND-C4D	-3.97	103.53	106.31
7	A	101	BCL	C4A-NA-C1A	3.96	108.48	106.68
7	n	101	BCL	C2D-C1D-ND	3.96	114.04	110.13
7	P	101	BCL	C1D-ND-C4D	-3.96	103.54	106.31
8	r	103	A1EL2	C27-C26-C28	3.95	124.12	118.09
7	g	102	BCL	C1D-ND-C4D	-3.95	103.54	106.31
7	M	403	BCL	CHC-C4B-NB	-3.94	118.13	124.05
7	O	101	BCL	C3C-C4C-CHD	-3.94	115.09	123.39
8	N	102	A1EL2	C19-C18-C17	3.92	131.55	123.52
7	g	102	BCL	C2D-C1D-ND	3.92	114.01	110.13
7	O	101	BCL	C2D-C1D-ND	3.92	114.00	110.13
7	b	102	BCL	C2D-C1D-ND	3.92	114.00	110.13
7	I	101	BCL	C1-C2-C3	-3.92	119.78	126.20
7	J	101	BCL	C3C-C4C-CHD	-3.91	115.14	123.39
7	P	101	BCL	C3C-C4C-CHD	-3.91	115.14	123.39
8	r	103	A1EL2	O1-C6-C7	-3.91	100.90	109.71
7	a	101	BCL	C2D-C1D-ND	3.91	114.00	110.13
7	M	403	BCL	C2D-C1D-ND	3.91	113.99	110.13
8	P	102	A1EL2	C29-C30-C31	-3.91	112.56	121.56
8	I	102	A1EL2	C19-C20-C21	3.90	132.75	127.28
9	q	101	A1ELD	C30-C29-C27	3.90	133.90	127.30
7	Q	101	BCL	O2D-CGD-CBD	3.89	118.04	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	101	BCL	C4A-NA-C1A	3.89	108.45	106.68
8	I	102	A1EL2	C24-C25-C26	3.89	132.73	127.28
7	G	101	BCL	O2D-CGD-CBD	3.87	117.99	111.23
7	G	101	BCL	C1D-ND-C4D	-3.86	103.61	106.31
8	r	103	A1EL2	C1-C2-C7	-3.85	107.33	114.42
8	P	102	A1EL2	C40-C12-C11	3.85	123.97	118.09
7	K	101	BCL	C2D-C1D-ND	3.85	113.94	110.13
13	L	303	BPH	CBC-CAC-C3C	-3.85	106.20	113.78
7	B	101	BCL	C4A-NA-C1A	3.85	108.43	106.68
7	P	101	BCL	C2D-C1D-ND	3.84	113.93	110.13
7	P	101	BCL	O2D-CGD-CBD	3.84	117.94	111.23
7	e	102	BCL	C1D-ND-C4D	-3.84	103.62	106.31
7	p	101	BCL	C2D-C1D-ND	3.82	113.91	110.13
7	o	102	BCL	C3B-C4B-NB	3.82	114.80	109.76
7	D	101	BCL	CHC-C1C-NC	3.82	129.91	124.40
7	L	302	BCL	C3C-C4C-CHD	-3.81	115.35	123.39
7	L	301	BCL	C2D-C1D-ND	3.80	113.88	110.13
7	O	101	BCL	O2D-CGD-CBD	3.79	117.86	111.23
7	s	101	BCL	O2D-CGD-CBD	3.79	117.86	111.23
7	a	101	BCL	C3B-C4B-NB	3.79	114.76	109.76
7	E	101	BCL	C2D-C1D-ND	3.79	113.88	110.13
7	C	101	BCL	CHC-C4B-NB	-3.79	118.37	124.05
7	q	102	BCL	C1D-ND-C4D	-3.78	103.66	106.31
7	b	102	BCL	C3B-C4B-NB	3.78	114.75	109.76
7	c	101	BCL	C2D-C1D-ND	3.77	113.86	110.13
7	f	102	BCL	O2A-CGA-CBA	3.76	123.31	111.83
7	L	301	BCL	O2A-CGA-CBA	3.75	123.28	111.83
7	r	104	BCL	C2D-C1D-ND	3.75	113.84	110.13
7	J	101	BCL	C2D-C1D-ND	3.75	113.83	110.13
8	J	102	A1EL2	C23-C21-C20	3.74	124.89	119.01
7	I	101	BCL	O2D-CGD-CBD	3.74	117.76	111.23
7	s	101	BCL	C3B-C4B-NB	3.73	114.69	109.76
7	f	102	BCL	C3B-C4B-NB	3.73	114.68	109.76
7	C	101	BCL	O2D-CGD-CBD	3.72	117.74	111.23
7	e	102	BCL	C3B-C4B-NB	3.72	114.67	109.76
7	C	101	BCL	C4A-NA-C1A	3.72	108.38	106.68
7	i	101	BCL	C3B-C4B-NB	3.72	114.67	109.76
7	O	101	BCL	C4-C3-C5	3.72	121.68	115.23
7	n	101	BCL	C4A-NA-C1A	3.71	108.37	106.68
7	o	102	BCL	C1D-ND-C4D	-3.71	103.71	106.31
7	B	101	BCL	C1-C2-C3	-3.70	120.14	126.20
9	B	103	A1ELD	C34-C32-C31	3.69	124.82	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	M	403	BCL	C3D-C4D-ND	3.69	115.98	109.99
7	C	101	BCL	C3B-C4B-NB	3.68	114.61	109.76
9	R	102	A1ELD	C26-C27-C12	-3.67	108.26	116.43
7	P	101	BCL	C1-C2-C3	-3.67	120.19	126.20
8	J	102	A1EL2	C38-C31-C32	3.67	121.16	114.42
9	r	101	A1ELD	C19-C20-C21	3.67	131.02	123.52
9	q	101	A1ELD	C34-C32-C31	3.67	124.77	119.01
7	n	101	BCL	C3B-C4B-NB	3.66	114.59	109.76
7	A	101	BCL	O2D-CGD-CBD	3.66	117.63	111.23
7	p	101	BCL	C1D-ND-C4D	-3.66	103.74	106.31
9	b	101	A1ELD	C20-C19-C18	3.65	130.98	123.52
7	P	101	BCL	C4-C3-C5	3.65	121.56	115.23
9	e	101	A1ELD	C19-C20-C21	3.64	130.98	123.52
7	L	301	BCL	C1D-ND-C4D	-3.64	103.76	106.31
8	D	102	A1EL2	C27-C26-C25	-3.63	116.93	122.82
9	d	101	A1ELD	C20-C19-C18	3.63	130.95	123.52
7	n	101	BCL	O2A-CGA-CBA	3.63	122.89	111.83
7	j	102	BCL	C1D-ND-C4D	-3.62	103.77	106.31
7	K	101	BCL	C1D-ND-C4D	-3.62	103.77	106.31
8	N	102	A1EL2	C27-C26-C25	-3.62	116.95	122.82
8	C	103	A1EL2	C27-C26-C25	-3.62	116.96	122.82
9	o	101	A1ELD	C30-C29-C27	3.62	133.42	127.30
9	O	102	A1ELD	C35-C34-C32	3.61	131.35	125.89
8	F	102	A1EL2	C27-C26-C25	-3.61	116.97	122.82
9	g	101	A1ELD	C20-C19-C18	3.61	130.90	123.52
8	E	102	A1EL2	C27-C26-C25	-3.61	116.97	122.82
9	C	102	A1ELD	C20-C19-C18	3.61	130.90	123.52
7	j	102	BCL	C2D-C1D-ND	3.60	113.69	110.13
9	o	101	A1ELD	C26-C27-C12	3.60	124.43	116.43
8	A	102	A1EL2	C27-C26-C25	-3.60	116.99	122.82
7	O	101	BCL	C1-C2-C3	-3.60	120.31	126.20
7	N	101	BCL	CHC-C4B-NB	-3.59	118.66	124.05
8	I	102	A1EL2	C1-C2-C3	-3.59	120.56	124.48
8	B	102	A1EL2	C27-C26-C25	-3.59	117.00	122.82
7	r	104	BCL	C1D-ND-C4D	-3.59	103.80	106.31
7	B	101	BCL	O2D-CGD-CBD	3.58	117.50	111.23
8	J	102	A1EL2	C14-C13-C12	3.58	132.30	127.28
7	i	101	BCL	C4A-NA-C1A	3.58	108.31	106.68
7	E	101	BCL	O2D-CGD-CBD	3.58	117.49	111.23
7	a	101	BCL	C1D-ND-C4D	-3.58	103.80	106.31
7	K	101	BCL	O2D-CGD-CBD	3.56	117.46	111.23
7	F	101	BCL	C2D-C1D-ND	3.56	113.65	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	c	101	BCL	O2A-CGA-CBA	3.56	122.70	111.83
7	K	101	BCL	CHC-C1C-NC	3.56	129.54	124.40
7	D	101	BCL	C4A-NA-C1A	3.56	108.30	106.68
7	q	102	BCL	C3B-C4B-NB	3.55	114.45	109.76
8	r	102	A1EL2	C27-C26-C25	-3.55	117.06	122.82
7	J	101	BCL	C4A-NA-C1A	3.54	108.30	106.68
7	s	101	BCL	C2D-C1D-ND	3.54	113.63	110.13
7	C	101	BCL	CHC-C1C-NC	3.54	129.51	124.40
7	L	301	BCL	C3B-C4B-NB	3.53	114.42	109.76
8	P	102	A1EL2	C1-C2-C3	3.53	128.34	124.48
7	J	101	BCL	O2D-CGD-O1D	-3.53	116.99	123.85
7	I	101	BCL	CHC-C4B-NB	-3.51	118.78	124.05
7	E	101	BCL	C1D-ND-C4D	-3.51	103.85	106.31
7	P	101	BCL	CHC-C4B-NB	-3.51	118.78	124.05
7	k	101	BCL	C3B-C4B-NB	3.51	114.39	109.76
7	S	101	BCL	CHC-C4B-NB	-3.50	118.79	124.05
7	g	102	BCL	C3B-C4B-NB	3.50	114.38	109.76
7	R	101	BCL	O2D-CGD-CBD	3.50	117.35	111.23
8	J	102	A1EL2	O3-C33-C34	3.50	116.67	109.85
7	R	101	BCL	C4-C3-C5	3.50	121.30	115.23
9	q	101	A1ELD	C20-C19-C18	3.50	130.68	123.52
7	N	101	BCL	O2D-CGD-CBD	3.49	117.34	111.23
8	K	102	A1EL2	C27-C26-C25	-3.49	117.16	122.82
8	P	102	A1EL2	C4-C3-C2	3.49	127.40	122.64
7	o	102	BCL	C4A-NA-C1A	3.49	108.27	106.68
9	B	103	A1ELD	C11-C10-C13	-3.48	117.17	122.82
7	f	102	BCL	C4-C3-C5	3.48	121.27	115.23
7	J	101	BCL	C3D-C4D-ND	3.47	115.62	109.99
7	r	104	BCL	C3B-C4B-NB	3.46	114.33	109.76
9	J	103	A1ELD	C20-C19-C18	3.46	130.60	123.52
9	A	103	A1ELD	C20-C19-C18	3.46	130.60	123.52
7	R	101	BCL	CHB-C4A-NA	3.46	129.39	124.40
7	f	102	BCL	C1D-ND-C4D	-3.45	103.89	106.31
7	E	101	BCL	CHC-C4B-NB	-3.45	118.87	124.05
8	P	102	A1EL2	C29-C28-C26	-3.45	121.14	126.23
8	r	103	A1EL2	C40-C12-C13	-3.44	117.24	122.82
7	D	101	BCL	C3D-C4D-ND	3.44	115.58	109.99
7	d	102	BCL	C3B-C4B-NB	3.44	114.30	109.76
9	r	101	A1ELD	C11-C10-C13	-3.44	117.25	122.82
8	I	102	A1EL2	C29-C28-C26	3.43	131.31	126.23
7	n	101	BCL	C1D-ND-C4D	-3.43	103.91	106.31
9	f	101	A1ELD	C20-C19-C18	3.42	130.53	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	R	103	A1ELD	C11-C10-C13	-3.42	117.28	122.82
7	M	401	BCL	C2D-C1D-ND	3.42	113.51	110.13
7	L	301	BCL	CHC-C4B-NB	-3.42	118.92	124.05
7	G	101	BCL	CHC-C4B-NB	-3.42	118.92	124.05
7	K	101	BCL	C4A-NA-C1A	3.41	108.24	106.68
9	B	103	A1ELD	C36-C35-C34	3.40	129.69	124.91
8	O	103	A1EL2	C23-C21-C20	3.39	124.35	119.01
7	R	101	BCL	C3D-C4D-ND	3.39	115.50	109.99
7	M	401	BCL	O2A-CGA-CBA	3.39	122.17	111.83
7	O	101	BCL	C3D-C4D-ND	3.39	115.50	109.99
7	d	102	BCL	C3D-C4D-ND	3.39	115.49	109.99
8	I	102	A1EL2	C18-C19-C20	3.39	130.45	123.52
7	I	101	BCL	C4A-NA-C1A	3.38	108.22	106.68
7	p	101	BCL	C3B-C4B-NB	3.38	114.22	109.76
13	L	303	BPH	C4D-CHA-CBD	-3.38	106.83	108.45
9	r	101	A1ELD	C20-C19-C18	3.38	130.43	123.52
7	P	101	BCL	CHB-C4A-NA	3.38	129.28	124.40
7	b	102	BCL	C3D-C4D-ND	3.38	115.48	109.99
9	C	102	A1ELD	C17-C16-C18	-3.37	117.35	122.82
7	G	101	BCL	C1-C2-C3	-3.37	120.67	126.20
7	A	101	BCL	CHB-C4A-NA	3.37	129.26	124.40
9	B	103	A1ELD	C11-C10-C9	3.36	123.23	118.09
7	c	101	BCL	C3B-C4B-NB	3.36	114.20	109.76
8	P	102	A1EL2	C24-C25-C26	-3.36	122.57	127.28
7	O	101	BCL	C4A-NA-C1A	3.36	108.21	106.68
9	e	101	A1ELD	C15-C16-C18	3.35	124.28	119.01
8	O	103	A1EL2	C27-C26-C25	-3.35	117.39	122.82
9	q	101	A1ELD	C11-C10-C13	-3.34	117.40	122.82
9	j	101	A1ELD	C23-C22-C21	-3.34	117.41	122.82
7	J	101	BCL	CHC-C4B-NB	-3.34	119.04	124.05
8	N	102	A1EL2	C40-C12-C13	-3.33	117.41	122.82
7	L	302	BCL	C2D-C1D-ND	3.33	113.43	110.13
7	M	401	BCL	C3B-C4B-NB	3.33	114.16	109.76
7	N	101	BCL	CHC-C1C-NC	3.33	129.20	124.40
9	j	101	A1ELD	C34-C32-C31	3.32	124.24	119.01
7	j	102	BCL	C3B-C4B-NB	3.32	114.14	109.76
9	q	101	A1ELD	C19-C20-C21	3.32	130.31	123.52
13	L	305	BPH	C2B-C1B-NB	-3.32	107.03	109.43
8	O	103	A1EL2	C15-C16-C17	3.32	124.22	119.01
7	P	101	BCL	C3D-C4D-ND	3.31	115.38	109.99
8	K	102	A1EL2	C19-C18-C17	3.31	130.30	123.52
7	K	101	BCL	CHC-C4B-NB	-3.31	119.08	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	g	102	BCL	C3D-C4D-ND	3.31	115.37	109.99
7	j	102	BCL	C3D-C4D-ND	3.30	115.36	109.99
7	S	101	BCL	C3D-C4D-ND	3.30	115.36	109.99
7	O	101	BCL	CHB-C4A-NA	3.30	129.17	124.40
8	F	102	A1EL2	C40-C12-C13	-3.30	117.47	122.82
7	a	101	BCL	C1-C2-C3	-3.30	120.80	126.20
7	B	101	BCL	C4-C3-C5	3.29	120.95	115.23
7	M	403	BCL	CMB-C2B-C1B	3.29	130.43	125.42
8	O	103	A1EL2	C28-C26-C25	3.29	124.19	119.01
7	S	101	BCL	C1C-NC-C4C	-3.29	105.18	106.68
7	A	101	BCL	C3D-C4D-ND	3.29	115.33	109.99
8	Q	102	A1EL2	C15-C16-C17	3.29	124.18	119.01
9	g	101	A1ELD	C11-C10-C9	3.29	123.11	118.09
8	E	102	A1EL2	C40-C12-C13	-3.29	117.49	122.82
13	L	303	BPH	CMC-C2C-C3C	3.29	126.82	114.13
8	C	103	A1EL2	C40-C12-C13	-3.29	117.49	122.82
7	k	101	BCL	C3D-C4D-ND	3.28	115.32	109.99
7	C	101	BCL	O2A-CGA-CBA	3.28	121.84	111.83
13	L	303	BPH	C3D-C4D-ND	3.28	111.91	107.71
8	D	102	A1EL2	C40-C12-C13	-3.28	117.51	122.82
7	I	101	BCL	C3D-C4D-ND	3.27	115.31	109.99
8	P	102	A1EL2	C36-C35-C34	-3.27	103.55	109.58
8	B	102	A1EL2	C40-C12-C13	-3.27	117.52	122.82
7	A	101	BCL	C1C-NC-C4C	-3.27	105.19	106.68
7	J	101	BCL	CHB-C4A-NA	3.26	129.11	124.40
9	q	101	A1ELD	C33-C32-C31	-3.26	117.54	122.82
7	i	101	BCL	C3D-C4D-ND	3.26	115.28	109.99
9	C	102	A1ELD	C23-C22-C21	-3.25	117.55	122.82
8	A	102	A1EL2	C40-C12-C13	-3.25	117.55	122.82
9	C	102	A1ELD	C11-C10-C9	3.25	123.05	118.09
7	L	302	BCL	O1D-CGD-CBD	-3.25	118.12	124.52
9	A	103	A1ELD	C11-C10-C13	-3.24	117.56	122.82
7	p	101	BCL	C3D-C4D-ND	3.24	115.26	109.99
7	Q	101	BCL	C3D-C4D-ND	3.24	115.25	109.99
11	T	301	PGV	O01-C1-C2	3.24	118.49	111.48
7	L	301	BCL	CMB-C2B-C3B	3.24	135.88	125.67
7	o	102	BCL	C3D-C4D-ND	3.24	115.25	109.99
7	e	102	BCL	C3D-C4D-ND	3.24	115.25	109.99
7	c	101	BCL	CHC-C1C-NC	3.24	129.07	124.40
7	N	101	BCL	C4A-NA-C1A	3.24	108.16	106.68
7	O	101	BCL	CHC-C4B-NB	-3.24	119.20	124.05
9	o	101	A1ELD	C15-C16-C18	3.23	124.09	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	c	101	BCL	C1-O2A-CGA	3.23	124.46	116.65
7	n	101	BCL	C1-O2A-CGA	3.22	124.43	116.65
7	K	101	BCL	C4-C3-C5	3.21	120.81	115.23
7	s	101	BCL	C1D-ND-C4D	-3.21	104.06	106.31
7	R	101	BCL	C4A-NA-C1A	3.21	108.14	106.68
8	r	102	A1EL2	C40-C12-C13	-3.20	117.62	122.82
9	g	101	A1ELD	C17-C16-C18	-3.19	117.64	122.82
7	M	403	BCL	O1D-CGD-CBD	-3.19	118.22	124.52
7	G	101	BCL	CHC-C1C-NC	3.19	129.00	124.40
7	r	104	BCL	C3D-C4D-ND	3.19	115.17	109.99
7	K	101	BCL	O2A-CGA-CBA	3.19	121.55	111.83
7	K	101	BCL	C1-O2A-CGA	3.19	124.36	116.65
9	e	101	A1ELD	C24-C22-C21	3.18	124.02	119.01
9	g	101	A1ELD	C23-C22-C21	-3.18	117.66	122.82
9	o	101	A1ELD	C19-C20-C21	3.18	130.03	123.52
9	b	101	A1ELD	C11-C10-C13	-3.18	117.67	122.82
7	S	101	BCL	CHC-C1C-NC	3.17	128.98	124.40
7	M	401	BCL	C1D-ND-C4D	-3.17	104.09	106.31
9	R	103	A1ELD	C24-C22-C21	3.17	124.00	119.01
7	B	101	BCL	C3D-C4D-ND	3.17	115.14	109.99
13	L	303	BPH	C1A-C2A-C3A	-3.17	99.82	102.84
7	M	401	BCL	C4A-NA-C1A	3.17	108.12	106.68
9	B	103	A1ELD	C17-C16-C18	-3.17	117.69	122.82
7	b	102	BCL	O2A-CGA-CBA	3.17	121.49	111.83
7	c	101	BCL	C1D-ND-C4D	-3.16	104.09	106.31
12	L	309	LMT	C1'-O5'-C5'	-3.16	107.55	113.72
7	F	101	BCL	C3B-C4B-NB	3.16	113.93	109.76
8	J	102	A1EL2	C37-C35-C34	-3.16	103.75	109.58
9	j	101	A1ELD	C17-C16-C18	-3.15	117.70	122.82
7	G	101	BCL	C3D-C4D-ND	3.15	115.11	109.99
7	c	101	BCL	O2D-CGD-O1D	-3.15	117.72	123.85
8	r	102	A1EL2	C15-C16-C17	3.15	123.96	119.01
7	L	302	BCL	C3D-C4D-ND	3.15	115.10	109.99
8	J	102	A1EL2	C9-C4-C8	-3.14	99.63	108.63
7	N	101	BCL	C3D-C4D-ND	3.14	115.09	109.99
9	R	103	A1ELD	C26-C25-C24	3.14	132.30	123.20
8	P	102	A1EL2	C38-C31-C30	3.14	127.91	124.48
8	O	103	A1EL2	C19-C20-C21	3.13	131.67	127.28
8	I	102	A1EL2	C32-C33-C34	-3.12	106.43	110.30
9	f	101	A1ELD	C11-C10-C13	-3.12	117.76	122.82
7	L	302	BCL	C3B-C4B-NB	3.12	113.88	109.76
7	M	401	BCL	C3D-C4D-ND	3.12	115.05	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	E	101	BCL	C3D-C4D-ND	3.11	115.05	109.99
7	J	101	BCL	CHC-C1C-NC	3.11	128.89	124.40
7	c	101	BCL	C3D-C4D-ND	3.10	115.03	109.99
7	d	102	BCL	C4A-NA-C1A	3.09	108.09	106.68
7	P	101	BCL	CHC-C1C-NC	3.09	128.86	124.40
9	g	101	A1ELD	C19-C20-C21	3.09	129.85	123.52
7	a	101	BCL	C3D-C4D-ND	3.09	115.01	109.99
7	C	101	BCL	C3D-C4D-ND	3.09	115.01	109.99
8	O	103	A1EL2	C37-C35-C36	-3.09	103.00	107.87
7	M	401	BCL	C4-C3-C5	3.09	120.58	115.23
7	K	101	BCL	C3D-C4D-ND	3.08	115.00	109.99
9	C	102	A1ELD	C19-C20-C21	3.08	129.81	123.52
9	b	101	A1ELD	C19-C20-C21	3.07	129.81	123.52
8	P	102	A1EL2	O3-C33-C34	3.07	115.83	109.85
9	J	103	A1ELD	C33-C32-C31	-3.07	117.84	122.82
7	q	102	BCL	C3D-C4D-ND	3.07	114.97	109.99
11	L	308	PGV	O03-C19-C20	3.06	121.18	111.83
14	L	304	UQ8	C7-C6-C1	-3.06	119.64	124.89
7	c	101	BCL	CHC-C4B-NB	-3.06	119.46	124.05
7	F	101	BCL	O2D-CGD-CBD	3.06	116.58	111.23
8	J	102	A1EL2	C15-C16-C17	3.06	123.82	119.01
7	B	101	BCL	C1C-NC-C4C	-3.05	105.29	106.68
7	c	101	BCL	CED-O2D-CGD	3.05	122.83	115.92
9	d	101	A1ELD	C19-C20-C21	3.05	129.76	123.52
7	F	101	BCL	CHC-C4B-NB	-3.05	119.48	124.05
7	L	301	BCL	O1D-CGD-CBD	-3.03	118.54	124.52
7	g	102	BCL	C4A-NA-C1A	3.03	108.06	106.68
11	F	103	PGV	C02-O01-C1	-3.03	110.56	117.80
8	Q	102	A1EL2	C37-C35-C34	-3.02	104.01	109.58
7	O	101	BCL	CHC-C1C-NC	3.02	128.75	124.40
7	M	401	BCL	O1D-CGD-CBD	-3.02	118.57	124.52
8	r	103	A1EL2	C39-C16-C15	3.01	122.69	118.09
7	N	101	BCL	CHB-C4A-NA	3.01	128.75	124.40
7	n	101	BCL	C3D-C4D-ND	3.01	114.88	109.99
7	F	101	BCL	C1D-CHD-C4C	-3.01	119.36	126.62
11	D	103	PGV	C02-O01-C1	-3.00	110.61	117.80
9	O	102	A1ELD	C44-C2-C3	-3.00	105.54	110.24
7	f	102	BCL	C3D-C4D-ND	3.00	114.86	109.99
7	L	302	BCL	C1D-CHD-C4C	-3.00	119.39	126.62
7	C	101	BCL	CHB-C4A-NA	2.99	128.72	124.40
11	T	301	PGV	O01-C02-C03	2.99	114.67	107.96
7	s	101	BCL	CMB-C2B-C3B	2.99	135.10	125.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	M	403	BCL	O2A-CGA-CBA	2.99	120.95	111.83
8	r	102	A1EL2	C39-C16-C17	-2.99	117.97	122.82
9	R	103	A1ELD	C23-C22-C21	-2.99	117.98	122.82
11	M	408	PGV	O03-C19-C20	2.99	120.94	111.83
7	Q	101	BCL	CHC-C4B-NB	-2.98	119.58	124.05
7	e	102	BCL	O2A-CGA-CBA	2.98	120.92	111.83
7	s	101	BCL	C3D-C4D-ND	2.98	114.83	109.99
7	L	301	BCL	C3D-C4D-ND	2.98	114.83	109.99
7	E	101	BCL	CHC-C1C-NC	2.98	128.70	124.40
11	G	103	PGV	O03-C19-C20	2.98	120.91	111.83
7	I	101	BCL	CHC-C1C-NC	2.98	128.69	124.40
9	f	101	A1ELD	C33-C32-C31	-2.97	118.00	122.82
8	G	102	A1EL2	C40-C12-C13	-2.97	118.00	122.82
7	R	101	BCL	CHC-C1C-NC	2.97	128.69	124.40
9	B	103	A1ELD	C23-C22-C24	2.96	122.61	118.09
7	r	104	BCL	CMB-C2B-C3B	2.96	135.00	125.67
7	G	101	BCL	C4A-NA-C1A	2.96	108.03	106.68
8	K	102	A1EL2	C27-C26-C28	2.96	122.61	118.09
7	Q	101	BCL	CHC-C1C-NC	2.95	128.65	124.40
9	R	102	A1ELD	C31-C30-C29	2.95	131.74	123.20
9	o	101	A1ELD	C23-C22-C24	-2.95	113.59	118.09
7	a	101	BCL	O2A-CGA-CBA	2.94	120.81	111.83
7	G	101	BCL	CHB-C4A-NA	2.94	128.65	124.40
7	M	403	BCL	CBB-CAB-C3B	-2.94	114.21	120.40
7	M	403	BCL	C3B-C4B-NB	2.93	113.62	109.76
7	a	101	BCL	C4A-NA-C1A	2.93	108.02	106.68
8	r	103	A1EL2	C22-C21-C20	-2.93	118.07	122.82
7	S	101	BCL	C1-C2-C3	-2.93	121.40	126.20
8	O	103	A1EL2	C18-C19-C20	2.93	129.51	123.52
7	B	101	BCL	CHC-C4B-NB	-2.92	119.66	124.05
7	A	101	BCL	C1-C2-C3	-2.92	121.41	126.20
7	R	101	BCL	CHC-C4B-NB	-2.92	119.67	124.05
7	d	102	BCL	CHB-C4A-NA	2.92	128.61	124.40
7	o	102	BCL	C4-C3-C5	2.92	120.29	115.23
8	J	102	A1EL2	C19-C20-C21	2.91	131.36	127.28
8	K	102	A1EL2	C40-C12-C11	2.91	122.53	118.09
7	c	101	BCL	O2A-CGA-O1A	-2.91	116.36	123.63
9	O	102	A1ELD	C45-C2-C3	2.90	114.80	110.24
9	B	103	A1ELD	C23-C22-C21	-2.90	118.11	122.82
7	L	302	BCL	C1D-ND-C4D	-2.90	104.28	106.31
7	M	401	BCL	C1-C2-C3	-2.90	121.45	126.20
7	f	102	BCL	C1-O2A-CGA	2.89	123.65	116.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	f	102	BCL	O2A-CGA-O1A	-2.89	116.40	123.63
7	j	102	BCL	C1-C2-C3	-2.89	121.47	126.20
8	I	102	A1EL2	C40-C12-C11	2.89	122.50	118.09
7	G	101	BCL	C4-C3-C5	2.88	120.23	115.23
9	A	103	A1ELD	C19-C20-C21	2.88	129.42	123.52
8	J	102	A1EL2	O1-C6-C5	2.88	115.64	109.75
7	o	102	BCL	C1-C2-C3	-2.88	121.48	126.20
7	j	102	BCL	O2D-CGD-O1D	-2.88	118.24	123.85
11	T	303	PGV	O03-C19-C20	2.88	120.61	111.83
7	k	101	BCL	O2A-CGA-CBA	2.88	120.60	111.83
7	j	102	BCL	C4-C3-C5	2.87	120.21	115.23
7	M	403	BCL	CHC-C1C-NC	2.87	128.54	124.40
9	f	101	A1ELD	C19-C20-C21	2.86	129.38	123.52
7	Q	101	BCL	CHB-C4A-NA	2.86	128.53	124.40
7	K	101	BCL	CHB-C4A-NA	2.86	128.53	124.40
7	n	101	BCL	O2A-CGA-O1A	-2.86	116.47	123.63
7	a	101	BCL	C4-C3-C5	2.86	120.19	115.23
7	d	102	BCL	CHC-C4B-NB	-2.85	119.77	124.05
9	J	103	A1ELD	C34-C32-C31	2.85	123.49	119.01
7	B	101	BCL	CHB-C4A-NA	2.85	128.51	124.40
7	i	101	BCL	CHC-C4B-NB	-2.85	119.78	124.05
8	P	102	A1EL2	C11-C12-C13	-2.84	114.53	119.01
8	r	102	A1EL2	C28-C26-C25	2.84	123.48	119.01
7	L	302	BCL	C1C-NC-C4C	-2.84	105.38	106.68
11	T	301	PGV	O03-C19-C20	2.84	120.50	111.83
7	q	102	BCL	CMB-C2B-C3B	2.83	134.61	125.67
9	R	102	A1ELD	C9-C8-C3	2.83	134.57	127.00
7	e	102	BCL	O2D-CGD-O1D	-2.83	118.34	123.85
7	d	102	BCL	CHC-C1C-NC	2.83	128.48	124.40
9	j	101	A1ELD	C36-C35-C34	2.83	128.88	124.91
7	D	101	BCL	CHB-C4A-NA	2.82	128.47	124.40
7	D	101	BCL	C4-C3-C5	2.82	120.12	115.23
7	F	101	BCL	C1-O2A-CGA	2.81	123.46	116.65
8	r	102	A1EL2	C35-C30-C31	-2.81	118.52	122.57
7	O	101	BCL	O2A-CGA-CBA	2.81	120.41	111.83
7	g	102	BCL	O2A-CGA-CBA	2.81	120.41	111.83
9	J	103	A1ELD	C19-C20-C21	2.81	129.27	123.52
8	J	102	A1EL2	C37-C35-C36	2.81	112.30	107.87
7	I	101	BCL	CHB-C4A-NA	2.80	128.45	124.40
9	d	101	A1ELD	C11-C10-C13	-2.80	118.28	122.82
8	r	103	A1EL2	C6-C7-C2	-2.80	105.20	112.18
7	q	102	BCL	C4A-NA-C1A	2.80	107.96	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	B	101	BCL	CAA-C2A-C3A	-2.80	105.45	113.00
7	c	101	BCL	CHB-C1B-C2B	-2.79	119.32	127.43
7	N	101	BCL	CAA-C2A-C3A	-2.79	105.45	113.00
7	q	102	BCL	CHC-C4B-NB	-2.79	119.86	124.05
7	d	102	BCL	CMB-C2B-C3B	2.79	134.46	125.67
7	L	301	BCL	C1D-CHD-C4C	-2.79	119.90	126.62
7	e	102	BCL	CMB-C2B-C3B	2.78	134.44	125.67
7	B	101	BCL	CHC-C1C-NC	2.78	128.41	124.40
9	g	101	A1ELD	C24-C22-C21	2.78	123.38	119.01
7	q	102	BCL	C4-C3-C5	2.77	120.04	115.23
7	r	104	BCL	C4-C3-C5	2.77	120.04	115.23
9	b	101	A1ELD	C23-C22-C21	-2.77	118.32	122.82
9	R	102	A1ELD	C8-C3-C4	-2.77	115.17	121.56
7	j	102	BCL	CHC-C1C-NC	2.77	128.40	124.40
11	F	103	PGV	O03-C19-C20	2.77	120.28	111.83
9	b	101	A1ELD	C17-C16-C18	-2.77	118.33	122.82
7	f	102	BCL	CHC-C4B-NB	-2.77	119.90	124.05
7	s	101	BCL	O2A-CGA-CBA	2.76	120.27	111.83
7	b	102	BCL	CHB-C4A-NA	2.76	128.39	124.40
7	g	102	BCL	CHC-C4B-NB	-2.76	119.91	124.05
7	o	102	BCL	CHC-C4B-NB	-2.76	119.92	124.05
9	R	103	A1ELD	C17-C16-C18	-2.75	118.36	122.82
7	g	102	BCL	CMB-C2B-C3B	2.75	134.35	125.67
7	n	101	BCL	CHC-C1C-NC	2.75	128.37	124.40
7	D	101	BCL	C1-C2-C3	-2.75	121.69	126.20
9	b	101	A1ELD	C15-C16-C18	2.75	123.33	119.01
7	L	302	BCL	CHC-C4B-NB	-2.75	119.93	124.05
7	q	102	BCL	CHB-C4A-NA	2.75	128.36	124.40
7	P	101	BCL	O2A-CGA-CBA	2.75	120.21	111.83
11	D	103	PGV	O03-C19-C20	2.75	120.21	111.83
7	j	102	BCL	CMB-C2B-C3B	2.75	134.33	125.67
7	n	101	BCL	CHC-C4B-NB	-2.74	119.93	124.05
8	r	103	A1EL2	C29-C30-C31	-2.74	115.24	121.56
8	C	103	A1EL2	C39-C16-C17	-2.74	118.38	122.82
9	C	102	A1ELD	C24-C22-C21	2.74	123.32	119.01
9	r	101	A1ELD	C17-C16-C18	-2.74	118.38	122.82
7	p	101	BCL	CMB-C2B-C3B	2.74	134.30	125.67
7	f	102	BCL	CMB-C2B-C3B	2.73	134.29	125.67
8	r	102	A1EL2	C22-C21-C20	-2.73	118.39	122.82
7	Q	101	BCL	C4-C3-C5	2.73	119.97	115.23
9	f	101	A1ELD	C17-C16-C18	-2.73	118.39	122.82
7	d	102	BCL	C4-C3-C5	2.73	119.96	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	J	102	A1EL2	C4-C3-C2	-2.73	118.91	122.64
8	D	102	A1EL2	C39-C16-C17	-2.73	118.40	122.82
7	N	101	BCL	CED-O2D-CGD	2.72	122.10	115.92
7	s	101	BCL	CHC-C4B-NB	-2.72	119.97	124.05
7	n	101	BCL	C1C-NC-C4C	-2.72	105.44	106.68
9	r	101	A1ELD	C23-C22-C21	-2.72	118.42	122.82
7	p	101	BCL	CHC-C4B-NB	-2.72	119.98	124.05
8	A	102	A1EL2	C39-C16-C17	-2.71	118.42	122.82
8	J	102	A1EL2	C28-C29-C30	2.71	134.24	127.00
8	r	103	A1EL2	C37-C35-C34	-2.71	104.58	109.58
7	j	102	BCL	CHC-C4B-NB	-2.71	119.98	124.05
7	b	102	BCL	CMB-C2B-C3B	2.71	134.21	125.67
9	R	103	A1ELD	C20-C19-C18	2.71	129.06	123.52
7	N	101	BCL	CMB-C2B-C3B	2.70	134.20	125.67
8	E	102	A1EL2	C39-C16-C17	-2.70	118.44	122.82
8	B	102	A1EL2	C39-C16-C17	-2.70	118.44	122.82
7	j	102	BCL	CHB-C4A-NA	2.70	128.30	124.40
7	M	401	BCL	CHB-C1B-C2B	-2.70	119.59	127.43
7	q	102	BCL	CHC-C1C-NC	2.70	128.29	124.40
7	N	101	BCL	O2A-CGA-CBA	2.70	120.06	111.83
7	r	104	BCL	CHC-C4B-NB	-2.70	120.00	124.05
7	k	101	BCL	CHB-C4A-NA	2.70	128.29	124.40
9	q	101	A1ELD	C17-C16-C18	-2.69	118.45	122.82
7	q	102	BCL	O2A-CGA-CBA	2.69	120.05	111.83
7	A	101	BCL	CED-O2D-CGD	2.69	122.02	115.92
7	L	302	BCL	CHC-C1C-NC	2.69	128.28	124.40
7	r	104	BCL	CHC-C1C-NC	2.69	128.28	124.40
7	P	101	BCL	C4A-NA-C1A	2.69	107.91	106.68
7	L	301	BCL	O2A-CGA-O1A	-2.69	116.91	123.63
7	S	101	BCL	CHB-C4A-NA	2.68	128.27	124.40
8	F	102	A1EL2	C39-C16-C17	-2.68	118.48	122.82
7	r	104	BCL	O2D-CGD-O1D	-2.68	118.64	123.85
7	n	101	BCL	CMB-C2B-C3B	2.68	134.11	125.67
7	S	101	BCL	O2A-CGA-CBA	2.68	119.99	111.83
7	q	102	BCL	O2D-CGD-O1D	-2.68	118.64	123.85
7	s	101	BCL	CHB-C4A-NA	2.67	128.26	124.40
9	d	101	A1ELD	C15-C16-C18	2.67	123.22	119.01
7	j	102	BCL	O2A-CGA-CBA	2.67	119.98	111.83
9	q	101	A1ELD	C23-C22-C21	-2.67	118.49	122.82
7	M	401	BCL	CMB-C2B-C3B	2.67	134.09	125.67
7	r	104	BCL	O2A-CGA-CBA	2.67	119.96	111.83
8	J	102	A1EL2	O3-C33-C32	-2.66	103.46	109.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	I	102	A1EL2	C35-C30-C29	2.66	122.92	115.68
7	A	101	BCL	CHC-C1C-NC	2.66	128.24	124.40
8	N	102	A1EL2	C39-C16-C17	-2.66	118.50	122.82
8	G	102	A1EL2	C37-C35-C34	-2.66	104.68	109.58
8	P	102	A1EL2	C18-C17-C16	-2.66	123.55	127.28
7	c	101	BCL	CMB-C2B-C3B	2.65	134.03	125.67
7	i	101	BCL	CHB-C4A-NA	2.65	128.23	124.40
8	r	102	A1EL2	C23-C21-C20	2.65	123.18	119.01
9	J	103	A1ELD	C23-C22-C21	-2.65	118.53	122.82
13	L	303	BPH	C4-C3-C5	2.65	119.82	115.23
9	C	102	A1ELD	C34-C32-C31	2.65	123.17	119.01
8	P	102	A1EL2	C37-C35-C34	-2.65	104.70	109.58
7	s	101	BCL	CHC-C1C-NC	2.64	128.22	124.40
7	K	101	BCL	C1C-NC-C4C	-2.64	105.47	106.68
9	j	101	A1ELD	C20-C19-C18	2.64	128.91	123.52
9	r	101	A1ELD	C15-C16-C18	2.63	123.15	119.01
7	f	102	BCL	C4A-NA-C1A	2.63	107.88	106.68
9	A	103	A1ELD	C33-C32-C31	-2.63	118.56	122.82
9	R	103	A1ELD	C15-C16-C18	2.63	123.14	119.01
9	A	103	A1ELD	C17-C16-C18	-2.63	118.56	122.82
7	p	101	BCL	O2D-CGD-O1D	-2.63	118.73	123.85
7	M	401	BCL	C1D-CHD-C4C	-2.63	120.29	126.62
7	A	101	BCL	C1D-CHD-C4C	-2.62	120.29	126.62
7	M	401	BCL	C1-O2A-CGA	2.62	123.00	116.65
7	Q	101	BCL	CED-O2D-CGD	2.62	121.86	115.92
7	o	102	BCL	CHB-C4A-NA	2.62	128.18	124.40
8	P	102	A1EL2	C35-C30-C29	2.62	122.79	115.68
7	G	101	BCL	CMB-C2B-C3B	2.62	133.92	125.67
9	b	101	A1ELD	C34-C32-C31	2.61	123.12	119.01
9	r	101	A1ELD	C24-C22-C21	2.61	123.12	119.01
7	M	403	BCL	OBB-CAB-C3B	2.61	125.05	120.43
7	e	102	BCL	CHC-C4B-NB	-2.61	120.14	124.05
8	I	102	A1EL2	C37-C35-C34	-2.61	104.78	109.58
11	T	301	PGV	C02-O01-C1	2.60	121.54	117.78
9	f	101	A1ELD	C23-C22-C21	-2.60	118.60	122.82
7	a	101	BCL	CHC-C1C-NC	2.60	128.16	124.40
9	J	103	A1ELD	C17-C16-C18	-2.60	118.61	122.82
7	J	101	BCL	O2A-CGA-CBA	2.60	119.75	111.83
7	n	101	BCL	CHB-C4A-NA	2.60	128.15	124.40
8	J	102	A1EL2	C24-C23-C21	2.60	133.48	126.36
8	D	102	A1EL2	C15-C16-C17	2.59	123.09	119.01
7	e	102	BCL	CHC-C1C-NC	2.59	128.14	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	r	102	A1EL2	C19-C20-C21	2.59	130.91	127.28
7	C	101	BCL	C1-C2-C3	-2.59	121.95	126.20
7	i	101	BCL	C1-C2-C3	-2.59	121.95	126.20
7	C	101	BCL	CED-O2D-CGD	2.59	121.79	115.92
8	N	102	A1EL2	C22-C21-C20	-2.59	118.63	122.82
9	A	103	A1ELD	C23-C22-C21	-2.59	118.63	122.82
7	N	101	BCL	C1-O2A-CGA	2.58	122.91	116.65
8	I	102	A1EL2	C24-C23-C21	2.58	133.44	126.36
7	i	101	BCL	C4-C3-C5	2.58	119.71	115.23
9	J	103	A1ELD	C15-C16-C18	2.58	123.07	119.01
9	C	102	A1ELD	C15-C16-C18	2.58	123.07	119.01
7	S	101	BCL	C1D-CHD-C4C	-2.58	120.40	126.62
7	E	101	BCL	CHB-C4A-NA	2.58	128.12	124.40
9	R	103	A1ELD	C9-C10-C13	2.58	123.06	119.01
8	C	103	A1EL2	C15-C16-C17	2.57	123.06	119.01
9	b	101	A1ELD	C33-C32-C31	-2.57	118.65	122.82
9	d	101	A1ELD	C17-C16-C18	-2.57	118.65	122.82
7	b	102	BCL	CHC-C4B-NB	-2.57	120.19	124.05
13	L	303	BPH	C3B-C4B-NB	2.57	111.79	108.05
8	B	102	A1EL2	C15-C16-C17	2.57	123.05	119.01
9	J	103	A1ELD	C11-C10-C13	-2.57	118.66	122.82
9	g	101	A1ELD	C15-C16-C18	2.56	123.03	119.01
8	A	102	A1EL2	C15-C16-C17	2.56	123.03	119.01
9	A	103	A1ELD	C11-C10-C9	2.56	122.00	118.09
8	J	102	A1EL2	C18-C19-C20	2.56	128.75	123.52
8	E	102	A1EL2	C15-C16-C17	2.56	123.03	119.01
9	b	101	A1ELD	C24-C22-C21	2.56	123.03	119.01
7	P	101	BCL	CMB-C2B-C3B	2.55	133.72	125.67
7	i	101	BCL	CHC-C1C-NC	2.55	128.08	124.40
7	D	101	BCL	O2A-CGA-CBA	2.55	119.61	111.83
9	q	101	A1ELD	C15-C16-C18	2.55	123.02	119.01
8	r	103	A1EL2	C22-C21-C23	2.55	121.98	118.09
8	G	102	A1EL2	C27-C26-C25	-2.55	118.69	122.82
9	d	101	A1ELD	C23-C22-C21	-2.54	118.69	122.82
11	L	308	PGV	C02-O01-C1	-2.54	111.71	117.80
7	L	302	BCL	C4-C3-C5	2.54	119.64	115.23
7	f	102	BCL	CHB-C4A-NA	2.54	128.06	124.40
9	R	102	A1ELD	C33-C32-C34	2.54	121.96	118.09
7	e	102	BCL	C1C-NC-C4C	-2.54	105.52	106.68
7	Q	101	BCL	CHB-C1B-NB	-2.54	120.25	124.05
7	f	102	BCL	CHC-C1C-NC	2.54	128.06	124.40
7	M	403	BCL	CHB-C1B-NB	-2.53	120.25	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A	101	BCL	CAA-C2A-C3A	-2.53	106.16	113.00
7	o	102	BCL	CHC-C1C-NC	2.53	128.05	124.40
7	a	101	BCL	O2D-CGD-O1D	-2.53	118.93	123.85
7	i	101	BCL	CMB-C2B-C3B	2.53	133.64	125.67
7	a	101	BCL	CHC-C4B-NB	-2.53	120.26	124.05
9	O	102	A1ELD	C20-C19-C18	2.52	128.69	123.52
8	F	102	A1EL2	C15-C16-C17	2.52	122.98	119.01
7	k	101	BCL	CHC-C1C-NC	2.52	128.04	124.40
7	g	102	BCL	CHC-C1C-NC	2.52	128.04	124.40
9	B	103	A1ELD	C43-C4-C5	2.52	119.05	114.42
9	f	101	A1ELD	C34-C32-C31	2.52	122.97	119.01
8	P	102	A1EL2	C14-C13-C12	-2.52	123.75	127.28
7	B	101	BCL	CED-O2D-CGD	2.51	121.62	115.92
9	B	103	A1ELD	C33-C32-C34	2.51	121.93	118.09
7	E	101	BCL	C1C-NC-C4C	-2.51	105.53	106.68
8	N	102	A1EL2	C18-C19-C20	2.51	128.65	123.52
7	G	101	BCL	O2A-CGA-CBA	2.51	119.48	111.83
8	N	102	A1EL2	C15-C16-C17	2.51	122.95	119.01
7	p	101	BCL	C1-C2-C3	-2.50	122.09	126.20
8	G	102	A1EL2	C35-C30-C29	2.50	122.47	115.68
7	a	101	BCL	C1C-NC-C4C	-2.50	105.54	106.68
7	g	102	BCL	C1D-CHD-C4C	-2.50	120.59	126.62
9	e	101	A1ELD	C26-C27-C12	2.50	121.99	116.43
9	C	102	A1ELD	C33-C32-C31	-2.50	118.77	122.82
7	I	101	BCL	C1D-CHD-C4C	-2.50	120.59	126.62
9	B	103	A1ELD	C8-C3-C4	-2.50	115.80	121.56
9	B	103	A1ELD	C6-C5-C4	2.50	118.39	112.18
9	g	101	A1ELD	C34-C32-C31	2.49	122.93	119.01
7	i	101	BCL	O2A-CGA-CBA	2.49	119.44	111.83
7	k	101	BCL	O2D-CGD-O1D	-2.49	119.00	123.85
8	G	102	A1EL2	C15-C16-C17	2.49	122.93	119.01
7	n	101	BCL	C1D-CHD-C4C	-2.49	120.61	126.62
9	C	102	A1ELD	C8-C9-C10	2.49	129.92	126.23
7	p	101	BCL	CHC-C1C-NC	2.49	127.99	124.40
9	d	101	A1ELD	C24-C22-C21	2.49	122.92	119.01
9	f	101	A1ELD	C15-C16-C18	2.49	122.92	119.01
16	M	405	H4X	C29-C28-C27	-2.49	118.79	122.82
9	B	103	A1ELD	C2-C3-C8	2.48	122.38	115.65
8	O	103	A1EL2	C24-C25-C26	2.48	130.76	127.28
7	F	101	BCL	CMB-C2B-C3B	2.48	133.49	125.67
8	I	102	A1EL2	O1-C6-C5	2.48	114.81	109.75
7	M	401	BCL	CMD-C2D-C3D	-2.48	122.01	127.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	d	101	A1ELD	C33-C32-C31	-2.47	118.81	122.82
11	T	301	PGV	O01-C02-C01	2.47	111.90	106.21
7	s	101	BCL	CHB-C1B-C2B	-2.47	120.25	127.43
7	K	101	BCL	O2A-CGA-O1A	-2.47	117.45	123.63
7	K	101	BCL	CMB-C2B-C3B	2.47	133.45	125.67
7	o	102	BCL	CMB-C2B-C3B	2.47	133.45	125.67
9	q	101	A1ELD	C24-C22-C21	2.47	122.89	119.01
8	P	102	A1EL2	C10-C11-C12	-2.47	122.58	126.23
7	k	101	BCL	CHC-C4B-NB	-2.47	120.35	124.05
7	K	101	BCL	C1D-CHD-C4C	-2.46	120.68	126.62
7	i	101	BCL	O2D-CGD-O1D	-2.46	119.05	123.85
8	r	103	A1EL2	C9-C4-C3	2.46	114.11	110.24
7	d	102	BCL	C1-C2-C3	-2.46	122.16	126.20
9	B	103	A1ELD	C17-C16-C15	2.46	121.85	118.09
7	I	101	BCL	C1C-NC-C4C	-2.46	105.56	106.68
7	d	102	BCL	O2A-CGA-CBA	2.46	119.34	111.83
7	I	101	BCL	C1-O2A-CGA	2.46	122.61	116.65
7	o	102	BCL	O2D-CGD-O1D	-2.46	119.06	123.85
7	A	101	BCL	CHB-C1B-NB	-2.46	120.36	124.05
8	P	102	A1EL2	C11-C10-C3	-2.46	120.43	127.00
7	p	101	BCL	C4-C3-C5	2.46	119.49	115.23
8	r	102	A1EL2	C4-C3-C2	-2.46	119.28	122.64
7	a	101	BCL	CMB-C2B-C3B	2.46	133.41	125.67
7	g	102	BCL	O2D-CGD-O1D	-2.46	119.07	123.85
7	o	102	BCL	O2A-CGA-CBA	2.45	119.32	111.83
7	J	101	BCL	CMB-C2B-C3B	2.45	133.40	125.67
7	e	102	BCL	C1D-CHD-C4C	-2.45	120.72	126.62
7	b	102	BCL	O2D-CGD-O1D	-2.44	119.09	123.85
12	N	103	LMT	C1'-O5'-C5'	-2.44	108.95	113.72
7	e	102	BCL	CHB-C4A-NA	2.44	127.92	124.40
8	I	102	A1EL2	C18-C17-C16	2.44	130.70	127.28
16	M	405	H4X	C18-C17-C19	-2.44	118.86	122.82
7	q	102	BCL	C6-C5-C3	-2.44	107.53	113.47
7	N	101	BCL	C1D-CHD-C4C	-2.44	120.74	126.62
8	C	103	A1EL2	C22-C21-C20	-2.44	118.87	122.82
7	C	101	BCL	C1D-CHD-C4C	-2.44	120.74	126.62
9	q	101	A1ELD	C31-C30-C29	2.44	130.26	123.20
7	b	102	BCL	C1-O2A-CGA	2.44	122.55	116.65
7	i	101	BCL	C1D-CHD-C4C	-2.43	120.75	126.62
16	M	405	H4X	C21-C22-C23	2.42	130.68	127.28
7	g	102	BCL	CHB-C4A-NA	2.42	127.89	124.40
9	A	103	A1ELD	C15-C16-C18	2.42	122.81	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	R	102	A1ELD	C39-C37-C38	2.42	114.85	110.43
7	S	101	BCL	CMB-C2B-C3B	2.42	133.29	125.67
7	Q	101	BCL	C1-O2A-CGA	2.41	122.50	116.65
7	S	101	BCL	C4-C3-C5	2.41	119.42	115.23
8	Q	102	A1EL2	C18-C19-C20	2.41	128.46	123.52
7	q	102	BCL	CHB-C1B-C2B	-2.41	120.43	127.43
13	L	303	BPH	O2A-CGA-CBA	2.41	119.18	111.83
7	j	102	BCL	CHB-C1B-C2B	-2.41	120.44	127.43
7	s	101	BCL	C4-C3-C5	2.41	119.41	115.23
7	L	301	BCL	CHB-C1B-C2B	-2.41	120.44	127.43
9	o	101	A1ELD	C45-C2-C44	2.41	115.52	108.63
9	r	101	A1ELD	C35-C34-C32	2.41	129.53	125.89
11	L	307	PGV	C02-O01-C1	-2.40	112.04	117.80
7	a	101	BCL	CHB-C4A-NA	2.40	127.87	124.40
9	e	101	A1ELD	C11-C10-C13	-2.40	118.92	122.82
7	q	102	BCL	C1-C2-C3	-2.40	122.27	126.20
7	d	102	BCL	CHB-C1B-C2B	-2.40	120.46	127.43
8	E	102	A1EL2	C22-C21-C20	-2.40	118.93	122.82
7	r	104	BCL	CHB-C1B-C2B	-2.40	120.47	127.43
8	B	102	A1EL2	C22-C21-C20	-2.40	118.93	122.82
14	L	306	UQ8	C7-C6-C1	-2.40	120.78	124.89
7	i	101	BCL	C6-C5-C3	-2.40	107.63	113.47
8	D	102	A1EL2	C22-C21-C20	-2.40	118.93	122.82
12	G	104	LMT	C1'-O5'-C5'	-2.40	109.04	113.72
7	b	102	BCL	O2A-CGA-O1A	-2.39	117.64	123.63
7	C	101	BCL	CHB-C1B-C2B	-2.39	120.48	127.43
8	P	102	A1EL2	C1-C2-C7	-2.39	110.03	114.42
8	r	102	A1EL2	C40-C12-C11	2.39	121.74	118.09
9	J	103	A1ELD	C36-C35-C34	2.38	128.26	124.91
7	I	101	BCL	O2A-CGA-CBA	2.38	119.10	111.83
7	g	102	BCL	C1-C2-C3	-2.38	122.30	126.20
7	b	102	BCL	CHC-C1C-NC	2.38	127.83	124.40
7	A	101	BCL	C4-C3-C5	2.38	119.36	115.23
7	d	102	BCL	O2D-CGD-O1D	-2.38	119.22	123.85
8	r	103	A1EL2	C10-C11-C12	-2.38	122.72	126.23
7	E	101	BCL	O2A-CGA-CBA	2.37	119.07	111.83
7	E	101	BCL	C1D-CHD-C4C	-2.37	120.90	126.62
8	A	102	A1EL2	C22-C21-C20	-2.37	118.97	122.82
7	n	101	BCL	O2D-CGD-O1D	-2.37	119.24	123.85
7	I	101	BCL	CMB-C2B-C3B	2.37	133.14	125.67
8	F	102	A1EL2	C22-C21-C20	-2.37	118.98	122.82
7	p	101	BCL	CHB-C4A-NA	2.37	127.81	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	M	405	H4X	C13-C12-C14	-2.36	118.99	122.82
12	G	104	LMT	C3'-C4'-C5'	-2.36	105.69	110.93
9	B	103	A1ELD	C30-C31-C32	2.36	130.59	127.28
7	A	101	BCL	O2A-CGA-CBA	2.36	119.03	111.83
8	O	103	A1EL2	C22-C21-C20	-2.36	118.99	122.82
7	R	101	BCL	C1D-CHD-C4C	-2.36	120.93	126.62
8	O	103	A1EL2	C39-C16-C17	-2.36	119.00	122.82
7	b	102	BCL	C4-C3-C2	-2.35	117.58	123.63
8	G	102	A1EL2	C8-C4-C3	-2.35	106.56	110.24
7	I	101	BCL	C4-C3-C5	2.35	119.31	115.23
7	p	101	BCL	CHB-C1B-C2B	-2.35	120.61	127.43
8	Q	102	A1EL2	C19-C20-C21	2.35	130.57	127.28
7	F	101	BCL	O2A-CGA-CBA	2.35	118.99	111.83
11	G	103	PGV	O14-P-O13	2.34	119.97	110.83
9	o	101	A1ELD	C11-C10-C13	2.34	126.61	122.82
7	p	101	BCL	O2A-CGA-CBA	2.34	118.98	111.83
7	b	102	BCL	C1D-CHD-C4C	-2.34	120.97	126.62
11	M	408	PGV	C02-O01-C1	-2.34	112.19	117.80
8	P	102	A1EL2	C28-C26-C25	-2.34	115.33	119.01
7	o	102	BCL	C1C-NC-C4C	-2.34	105.61	106.68
7	r	104	BCL	C1D-CHD-C4C	-2.34	120.98	126.62
7	p	101	BCL	C4A-NA-C1A	2.33	107.74	106.68
8	D	102	A1EL2	C40-C12-C11	2.33	121.65	118.09
8	E	102	A1EL2	C40-C12-C11	2.33	121.65	118.09
7	K	101	BCL	CED-O2D-CGD	2.33	121.20	115.92
7	L	302	BCL	O2A-CGA-CBA	2.33	118.94	111.83
7	n	101	BCL	CBC-CAC-C3C	-2.33	108.47	113.41
9	g	101	A1ELD	C8-C9-C10	2.33	129.68	126.23
8	C	103	A1EL2	C40-C12-C11	2.33	121.65	118.09
9	g	101	A1ELD	C33-C32-C31	-2.33	119.04	122.82
13	L	303	BPH	C1-O2A-CGA	2.33	122.29	116.65
9	A	103	A1ELD	C34-C32-C31	2.33	122.67	119.01
7	F	101	BCL	CHC-C1C-NC	2.33	127.76	124.40
7	L	301	BCL	C1C-NC-C4C	-2.33	105.62	106.68
8	B	102	A1EL2	C40-C12-C11	2.32	121.64	118.09
8	F	102	A1EL2	C40-C12-C11	2.32	121.64	118.09
11	L	307	PGV	O14-P-O13	2.32	119.89	110.83
7	A	101	BCL	C11-C10-C8	-2.32	108.24	115.97
7	r	104	BCL	CHB-C4A-NA	2.32	127.75	124.40
7	P	101	BCL	CED-O2D-CGD	2.32	121.19	115.92
9	O	102	A1ELD	C8-C9-C10	2.32	129.67	126.23
11	T	303	PGV	O14-P-O13	2.32	119.88	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	O	103	A1EL2	C40-C12-C13	-2.32	119.06	122.82
7	G	101	BCL	C1D-CHD-C4C	-2.32	121.03	126.62
7	k	101	BCL	C4A-NA-C1A	2.32	107.74	106.68
9	r	101	A1ELD	C33-C32-C31	-2.32	119.06	122.82
7	L	301	BCL	CHB-C4A-NA	2.31	127.74	124.40
7	G	101	BCL	CED-O2D-CGD	2.31	121.16	115.92
7	k	101	BCL	CMB-C2B-C3B	2.31	132.96	125.67
8	A	102	A1EL2	C40-C12-C11	2.31	121.62	118.09
8	I	102	A1EL2	C4-C3-C2	-2.31	119.48	122.64
7	I	101	BCL	CAA-C2A-C3A	-2.31	106.76	113.00
8	N	102	A1EL2	C23-C21-C20	2.31	122.64	119.01
7	f	102	BCL	C1D-CHD-C4C	-2.31	121.05	126.62
7	o	102	BCL	C1D-CHD-C4C	-2.31	121.05	126.62
9	e	101	A1ELD	C14-C13-C10	2.31	130.51	127.28
7	P	101	BCL	C1D-CHD-C4C	-2.30	121.06	126.62
9	j	101	A1ELD	C30-C31-C32	2.30	130.50	127.28
9	A	103	A1ELD	C24-C22-C21	2.30	122.62	119.01
7	k	101	BCL	C1D-CHD-C4C	-2.30	121.08	126.62
9	R	103	A1ELD	C33-C32-C31	-2.30	119.09	122.82
7	A	101	BCL	CMB-C2B-C3B	2.30	132.92	125.67
7	g	102	BCL	CHB-C1B-C2B	-2.30	120.76	127.43
7	B	101	BCL	O2A-CGA-CBA	2.30	118.83	111.83
7	P	101	BCL	CHB-C1B-C2B	-2.30	120.76	127.43
8	J	102	A1EL2	O2-C34-C33	2.29	113.99	109.54
7	Q	101	BCL	C1D-CHD-C4C	-2.29	121.09	126.62
7	C	101	BCL	C4-C3-C5	2.29	119.21	115.23
13	L	303	BPH	CMA-C3A-C4A	-2.29	109.68	114.61
7	R	101	BCL	CHB-C1B-NB	-2.29	120.62	124.05
7	I	101	BCL	CED-O2D-CGD	2.29	121.10	115.92
8	J	102	A1EL2	C7-C2-C3	2.29	125.45	120.76
8	r	103	A1EL2	C14-C13-C12	-2.28	124.08	127.28
8	r	103	A1EL2	C19-C18-C17	2.28	128.18	123.52
8	r	103	A1EL2	C18-C17-C16	-2.28	124.08	127.28
8	O	103	A1EL2	C38-C31-C32	-2.28	110.23	114.42
7	e	102	BCL	C4A-NA-C1A	2.27	107.72	106.68
7	i	101	BCL	CHB-C1B-C2B	-2.27	120.83	127.43
7	M	401	BCL	CHB-C4A-NA	2.27	127.68	124.40
9	d	101	A1ELD	C34-C32-C31	2.27	122.58	119.01
7	Q	101	BCL	C1C-NC-C4C	-2.27	105.64	106.68
7	O	101	BCL	C1D-CHD-C4C	-2.27	121.15	126.62
7	n	101	BCL	CHB-C1B-C2B	-2.27	120.84	127.43
7	L	301	BCL	CHC-C1C-NC	2.27	127.67	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	a	101	BCL	C1D-CHD-C4C	-2.26	121.17	126.62
9	e	101	A1ELD	C20-C21-C22	2.26	130.45	127.28
7	M	403	BCL	CAB-C3B-C2B	-2.26	123.05	127.74
7	S	101	BCL	CAA-CBA-CGA	-2.26	106.80	113.21
8	I	102	A1EL2	C7-C2-C3	2.25	125.39	120.76
7	s	101	BCL	C1D-CHD-C4C	-2.25	121.19	126.62
7	F	101	BCL	CHB-C1B-C2B	-2.25	120.89	127.43
7	E	101	BCL	CED-O2D-CGD	2.25	121.02	115.92
13	L	303	BPH	C1-C2-C3	-2.25	122.51	126.20
7	M	403	BCL	C1D-CHD-C4C	-2.25	121.20	126.62
7	A	101	BCL	C16-C15-C13	-2.25	108.50	115.97
7	J	101	BCL	C1D-CHD-C4C	-2.24	121.21	126.62
8	I	102	A1EL2	C14-C15-C16	2.24	132.51	126.36
9	R	103	A1ELD	C30-C31-C32	2.24	130.42	127.28
8	r	102	A1EL2	C18-C19-C20	2.24	128.11	123.52
7	E	101	BCL	C4-C3-C5	2.24	119.12	115.23
7	J	101	BCL	CMD-C2D-C3D	-2.24	122.55	127.69
7	q	102	BCL	C1D-CHD-C4C	-2.24	121.22	126.62
7	f	102	BCL	O2D-CGD-O1D	-2.24	119.49	123.85
7	L	302	BCL	C1-C2-C3	-2.24	122.53	126.20
7	O	101	BCL	CED-O2D-CGD	2.24	120.99	115.92
7	f	102	BCL	CHB-C1B-C2B	-2.24	120.93	127.43
7	e	102	BCL	C4-C3-C5	2.24	119.11	115.23
9	f	101	A1ELD	C11-C10-C9	2.23	121.50	118.09
7	D	101	BCL	C1D-CHD-C4C	-2.23	121.23	126.62
7	F	101	BCL	CAA-C2A-C3A	-2.23	106.97	113.00
7	o	102	BCL	O2A-CGA-O1A	-2.22	118.06	123.63
9	R	103	A1ELD	C26-C27-C12	2.22	121.38	116.43
7	J	101	BCL	CHB-C1B-C2B	-2.22	120.97	127.43
7	s	101	BCL	O2D-CGD-O1D	-2.22	119.52	123.85
7	B	101	BCL	C1D-CHD-C4C	-2.22	121.26	126.62
7	b	102	BCL	C4D-CHA-C1A	-2.22	118.59	121.24
9	b	101	A1ELD	C11-C10-C9	2.22	121.48	118.09
7	N	101	BCL	CHB-C1B-C2B	-2.22	120.98	127.43
8	Q	102	A1EL2	C23-C21-C20	2.22	122.50	119.01
7	D	101	BCL	CHB-C1B-C2B	-2.22	120.99	127.43
7	D	101	BCL	CMD-C2D-C3D	-2.22	122.60	127.69
7	M	403	BCL	C4-C3-C5	2.22	119.08	115.23
7	j	102	BCL	C4A-NA-C1A	2.22	107.69	106.68
11	T	303	PGV	C02-O01-C1	-2.21	112.50	117.80
9	j	101	A1ELD	C23-C22-C24	2.21	121.47	118.09
11	L	308	PGV	O03-C19-O04	-2.21	118.09	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	N	101	BCL	O2A-CGA-O1A	-2.21	118.09	123.63
9	o	101	A1ELD	C35-C34-C32	-2.21	122.55	125.89
7	i	101	BCL	C1C-NC-C4C	-2.21	105.67	106.68
7	E	101	BCL	CHB-C1B-NB	-2.21	120.73	124.05
8	G	102	A1EL2	C39-C16-C17	-2.21	119.24	122.82
7	G	101	BCL	CHB-C1B-C2B	-2.21	121.03	127.43
19	T	302	LHG	C27-C26-C25	-2.20	103.23	114.37
16	M	405	H4X	C24-C23-C22	-2.20	119.25	122.82
8	r	103	A1EL2	C11-C10-C3	-2.20	121.12	127.00
8	K	102	A1EL2	C40-C12-C13	-2.20	119.25	122.82
11	M	408	PGV	O14-P-O13	2.20	119.41	110.83
7	D	101	BCL	CAB-C3B-C2B	-2.20	123.18	127.74
16	M	405	H4X	C30-C28-C27	2.19	122.45	119.01
7	e	102	BCL	O2A-CGA-O1A	-2.19	118.15	123.63
7	p	101	BCL	C1D-CHD-C4C	-2.19	121.35	126.62
7	e	102	BCL	C1-O2A-CGA	2.19	121.94	116.65
7	k	101	BCL	C1-C2-C3	-2.18	122.62	126.20
7	S	101	BCL	O2D-CGD-O1D	-2.18	119.61	123.85
7	F	101	BCL	CHB-C4A-NA	2.18	127.55	124.40
9	e	101	A1ELD	C8-C9-C10	2.18	129.46	126.23
7	e	102	BCL	CHB-C1B-C2B	-2.18	121.11	127.43
8	K	102	A1EL2	C35-C30-C29	2.18	121.59	115.68
7	O	101	BCL	CHB-C1B-NB	-2.17	120.79	124.05
7	C	101	BCL	CAA-C2A-C3A	-2.17	107.12	113.00
7	d	102	BCL	C1D-CHD-C4C	-2.17	121.38	126.62
7	s	101	BCL	CBC-CAC-C3C	-2.17	108.81	113.41
7	K	101	BCL	CBC-CAC-C3C	-2.17	108.81	113.41
7	o	102	BCL	C1-O2A-CGA	2.17	121.90	116.65
7	P	101	BCL	O2D-CGD-O1D	-2.17	119.63	123.85
8	G	102	A1EL2	C40-C12-C11	2.17	121.40	118.09
8	I	102	A1EL2	C39-C16-C15	2.17	121.40	118.09
7	D	101	BCL	CAA-CBA-CGA	-2.16	107.08	113.21
8	r	103	A1EL2	C36-C35-C34	-2.16	105.60	109.58
7	D	101	BCL	CAA-C2A-C3A	-2.16	107.17	113.00
13	L	305	BPH	C1A-C2A-C3A	-2.15	100.79	102.84
7	D	101	BCL	C1-O2A-CGA	2.15	121.86	116.65
11	F	103	PGV	O01-C1-O02	-2.15	118.68	123.70
9	o	101	A1ELD	C24-C22-C21	2.15	122.39	119.01
7	B	101	BCL	CMB-C2B-C3B	2.15	132.44	125.67
8	J	102	A1EL2	C25-C24-C23	2.15	129.42	123.20
8	I	102	A1EL2	C28-C29-C30	2.15	132.73	127.00
14	M	402	UQ8	C7-C6-C1	-2.15	121.21	124.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	F	101	BCL	O2D-CGD-O1D	-2.15	119.67	123.85
7	M	401	BCL	CHC-C1C-NC	2.14	127.50	124.40
9	f	101	A1ELD	C24-C22-C21	2.14	122.38	119.01
9	o	101	A1ELD	C9-C8-C3	-2.14	121.28	127.00
7	L	302	BCL	C1-O2A-CGA	2.14	121.82	116.65
8	O	103	A1EL2	C9-C4-C3	-2.13	106.90	110.24
7	O	101	BCL	CMB-C2B-C3B	2.13	132.39	125.67
16	M	405	H4X	C20-C19-C17	2.13	130.27	127.28
7	k	101	BCL	CHB-C1B-C2B	-2.13	121.24	127.43
9	b	101	A1ELD	C8-C9-C10	2.13	129.39	126.23
7	D	101	BCL	O2D-CGD-O1D	-2.13	119.71	123.85
7	c	101	BCL	C1D-CHD-C4C	-2.13	121.49	126.62
7	k	101	BCL	CBC-CAC-C3C	-2.12	108.92	113.41
7	g	102	BCL	C6-C5-C3	-2.12	108.31	113.47
7	F	101	BCL	C3B-C2B-C1B	-2.12	99.64	106.40
9	f	101	A1ELD	C8-C9-C10	2.12	129.36	126.23
7	o	102	BCL	C6-C5-C3	-2.11	108.32	113.47
7	s	101	BCL	C1-C2-C3	-2.11	122.73	126.20
7	R	101	BCL	C1-C2-C3	-2.11	122.73	126.20
8	Q	102	A1EL2	C7-C2-C3	2.11	125.10	120.76
7	B	101	BCL	CHB-C1B-NB	-2.11	120.88	124.05
8	N	102	A1EL2	C40-C12-C11	2.11	121.31	118.09
9	j	101	A1ELD	C37-C36-C35	2.11	118.46	112.98
7	E	101	BCL	CMB-C2B-C3B	2.11	132.32	125.67
9	J	103	A1ELD	C24-C22-C21	2.11	122.33	119.01
8	Q	102	A1EL2	C33-C32-C31	-2.11	107.69	113.39
16	M	405	H4X	C16-C17-C19	2.10	122.32	119.01
11	D	103	PGV	O01-C1-O02	-2.10	118.79	123.70
14	L	304	UQ8	C7-C6-C5	2.10	120.96	118.52
8	P	102	A1EL2	C4-C5-C6	-2.10	108.98	113.59
7	O	101	BCL	CHB-C1B-C2B	-2.10	121.34	127.43
7	o	102	BCL	CHB-C1B-C2B	-2.10	121.34	127.43
7	b	102	BCL	C4A-NA-C1A	2.10	107.64	106.68
7	R	101	BCL	O2A-CGA-CBA	2.09	118.22	111.83
9	r	101	A1ELD	C2-C3-C4	-2.09	119.78	122.64
7	R	101	BCL	C4-C3-C2	-2.09	118.26	123.63
7	e	102	BCL	C1-C2-C3	-2.09	122.77	126.20
7	P	101	BCL	CMD-C2D-C3D	-2.09	122.90	127.69
7	E	101	BCL	CMD-C2D-C3D	-2.09	122.91	127.69
7	L	302	BCL	C6-C5-C3	-2.08	108.39	113.47
8	G	102	A1EL2	C29-C30-C31	-2.08	116.75	121.56
9	r	101	A1ELD	C30-C31-C32	2.08	130.19	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	g	102	BCL	C4-C3-C5	2.08	118.83	115.23
7	I	101	BCL	CHB-C1B-C2B	-2.07	121.41	127.43
7	C	101	BCL	CAC-C3C-C4C	-2.07	107.99	112.58
7	F	101	BCL	C3D-C4D-ND	2.07	113.35	109.99
9	b	101	A1ELD	C36-C35-C34	2.07	127.82	124.91
7	E	101	BCL	C11-C10-C8	-2.07	109.10	115.97
7	j	102	BCL	C1D-CHD-C4C	-2.06	121.64	126.62
7	Q	101	BCL	C16-C15-C13	-2.06	109.11	115.97
8	Q	102	A1EL2	C29-C30-C31	-2.06	116.81	121.56
9	B	103	A1ELD	C20-C19-C18	2.06	127.73	123.52
7	O	101	BCL	CAA-C2A-C3A	-2.06	107.43	113.00
7	g	102	BCL	CBA-CAA-C2A	-2.06	107.67	113.79
8	P	102	A1EL2	C8-C4-C3	-2.06	107.01	110.24
7	f	102	BCL	C1C-NC-C4C	-2.06	105.74	106.68
7	b	102	BCL	CHB-C1B-C2B	-2.05	121.47	127.43
9	C	102	A1ELD	C36-C35-C34	2.05	127.80	124.91
8	K	102	A1EL2	C29-C30-C31	-2.05	116.83	121.56
8	O	103	A1EL2	C8-C4-C3	2.05	113.46	110.24
9	e	101	A1ELD	C19-C18-C16	2.05	130.15	127.28
7	P	101	BCL	CAA-C2A-C3A	-2.05	107.46	113.00
7	Q	101	BCL	O2A-CGA-CBA	2.05	118.08	111.83
8	J	102	A1EL2	C4-C5-C6	2.05	118.09	113.59
8	P	102	A1EL2	C23-C21-C20	-2.05	115.79	119.01
9	j	101	A1ELD	C17-C16-C15	2.05	121.22	118.09
9	d	101	A1ELD	C11-C10-C9	2.05	121.21	118.09
7	s	101	BCL	C4A-NA-C1A	2.05	107.61	106.68
7	R	101	BCL	CAA-CBA-CGA	-2.04	107.41	113.21
8	r	103	A1EL2	C11-C12-C13	-2.04	115.80	119.01
16	M	405	H4X	C11-C12-C14	2.04	122.22	119.01
9	f	101	A1ELD	C36-C35-C34	2.04	127.78	124.91
7	J	101	BCL	C4-C3-C5	2.04	118.77	115.23
7	A	101	BCL	CAA-CBA-CGA	-2.04	107.42	113.21
7	B	101	BCL	CMD-C2D-C3D	-2.04	123.01	127.69
8	F	102	A1EL2	C35-C30-C29	2.04	121.22	115.68
9	j	101	A1ELD	C19-C20-C21	2.04	127.69	123.52
7	L	302	BCL	CHB-C1B-C2B	-2.04	121.52	127.43
7	S	101	BCL	CED-O2D-CGD	2.04	120.53	115.92
7	k	101	BCL	C4-C3-C5	2.03	118.76	115.23
9	q	101	A1ELD	C11-C10-C9	2.03	121.20	118.09
16	M	405	H4X	C15-C14-C12	2.03	130.13	127.28
7	f	102	BCL	CBC-CAC-C3C	-2.03	109.10	113.41
8	P	102	A1EL2	C19-C20-C21	-2.03	124.43	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	N	103	LMT	O1'-C1-C2	-2.03	104.80	110.68
7	a	101	BCL	CHB-C1B-C2B	-2.03	121.53	127.43
7	G	101	BCL	C1C-NC-C4C	-2.03	105.75	106.68
8	D	102	A1EL2	C35-C30-C29	2.03	121.19	115.68
7	e	102	BCL	CBC-CAC-C3C	-2.03	109.11	113.41
9	e	101	A1ELD	C17-C16-C18	-2.02	119.54	122.82
11	M	408	PGV	O01-C1-O02	-2.02	118.97	123.70
9	g	101	A1ELD	C37-C36-C35	2.02	118.24	112.98
8	B	102	A1EL2	C35-C30-C29	2.02	121.17	115.68
8	E	102	A1EL2	C35-C30-C29	2.02	121.17	115.68
7	D	101	BCL	CED-O2D-CGD	2.02	120.50	115.92
7	r	104	BCL	C4A-NA-C1A	2.02	107.60	106.68
8	C	103	A1EL2	C35-C30-C29	2.02	121.16	115.68
13	L	305	BPH	CMA-C3A-C4A	-2.02	110.27	114.61
7	N	101	BCL	C1C-NC-C4C	-2.02	105.76	106.68
7	D	101	BCL	C11-C10-C8	-2.02	109.26	115.97
7	c	101	BCL	C4-C3-C5	2.02	118.73	115.23
7	E	101	BCL	C4-C3-C2	-2.01	118.46	123.63
7	S	101	BCL	C1-O2A-CGA	2.01	121.52	116.65
7	F	101	BCL	CED-O2D-CGD	2.01	120.48	115.92
8	D	102	A1EL2	C23-C21-C20	2.01	122.16	119.01
9	B	103	A1ELD	C35-C34-C32	2.00	128.92	125.89
11	L	308	PGV	O01-C1-O02	-2.00	119.02	123.70
7	S	101	BCL	CHB-C1B-C2B	-2.00	121.61	127.43
7	K	101	BCL	CHB-C1B-C2B	-2.00	121.62	127.43

There are no chirality outliers.

All (849) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	B	101	BCL	C1A-C2A-CAA-CBA
7	C	101	BCL	C4B-C3B-CAB-CBB
7	D	101	BCL	C1A-C2A-CAA-CBA
7	D	101	BCL	C2B-C3B-CAB-OB
7	D	101	BCL	C2B-C3B-CAB-CBB
7	D	101	BCL	C4B-C3B-CAB-CBB
7	Q	101	BCL	C3A-C2A-CAA-CBA
7	J	101	BCL	CBD-CGD-O2D-CED
7	N	101	BCL	C3A-C2A-CAA-CBA
7	b	102	BCL	C2C-C3C-CAC-CBC
7	b	102	BCL	C4C-C3C-CAC-CBC
7	b	102	BCL	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
7	a	101	BCL	C3A-C2A-CAA-CBA
7	a	101	BCL	C2C-C3C-CAC-CBC
7	a	101	BCL	C4C-C3C-CAC-CBC
7	p	101	BCL	C2C-C3C-CAC-CBC
7	p	101	BCL	C4C-C3C-CAC-CBC
7	o	102	BCL	C1A-C2A-CAA-CBA
7	o	102	BCL	C3A-C2A-CAA-CBA
7	o	102	BCL	C2C-C3C-CAC-CBC
7	o	102	BCL	C4C-C3C-CAC-CBC
7	n	101	BCL	C1A-C2A-CAA-CBA
7	n	101	BCL	C3A-C2A-CAA-CBA
7	n	101	BCL	C2C-C3C-CAC-CBC
7	n	101	BCL	C4C-C3C-CAC-CBC
7	s	101	BCL	C2C-C3C-CAC-CBC
7	s	101	BCL	C4C-C3C-CAC-CBC
7	s	101	BCL	C11-C10-C8-C7
7	r	104	BCL	C2C-C3C-CAC-CBC
7	r	104	BCL	C4C-C3C-CAC-CBC
7	k	101	BCL	C2C-C3C-CAC-CBC
7	k	101	BCL	C4C-C3C-CAC-CBC
7	j	102	BCL	C2C-C3C-CAC-CBC
7	j	102	BCL	C4C-C3C-CAC-CBC
7	c	101	BCL	C2C-C3C-CAC-CBC
7	c	101	BCL	C4C-C3C-CAC-CBC
7	d	102	BCL	C2C-C3C-CAC-CBC
7	d	102	BCL	C4C-C3C-CAC-CBC
7	d	102	BCL	C6-C7-C8-C9
7	e	102	BCL	C2C-C3C-CAC-CBC
7	e	102	BCL	C4C-C3C-CAC-CBC
7	f	102	BCL	C2C-C3C-CAC-CBC
7	f	102	BCL	C4C-C3C-CAC-CBC
7	g	102	BCL	C1A-C2A-CAA-CBA
7	g	102	BCL	C3A-C2A-CAA-CBA
7	g	102	BCL	C2C-C3C-CAC-CBC
7	g	102	BCL	C4C-C3C-CAC-CBC
7	q	102	BCL	C2C-C3C-CAC-CBC
7	q	102	BCL	C4C-C3C-CAC-CBC
7	i	101	BCL	C2C-C3C-CAC-CBC
7	i	101	BCL	C4C-C3C-CAC-CBC
7	L	302	BCL	C2B-C3B-CAB-OB
7	L	302	BCL	C2B-C3B-CAB-CB
7	L	302	BCL	C4B-C3B-CAB-OB

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Mol	Chain	Res	Type	Atoms
7	L	302	BCL	C4B-C3B-CAB-CBB
7	L	302	BCL	C4C-C3C-CAC-CBC
7	M	401	BCL	CHA-CBD-CGD-O2D
7	M	403	BCL	C1A-C2A-CAA-CBA
7	M	403	BCL	C2B-C3B-CAB-OBB
7	M	403	BCL	C2B-C3B-CAB-CBB
7	M	403	BCL	C4B-C3B-CAB-CBB
9	A	103	A1ELD	C34-C35-C36-C37
9	B	103	A1ELD	C34-C35-C36-C37
9	C	102	A1ELD	C34-C35-C36-C37
9	J	103	A1ELD	C34-C35-C36-C37
9	R	102	A1ELD	C34-C35-C36-C37
9	b	101	A1ELD	C34-C35-C36-C37
9	o	101	A1ELD	C34-C35-C36-C37
9	j	101	A1ELD	C34-C35-C36-C37
9	d	101	A1ELD	C34-C35-C36-C37
9	e	101	A1ELD	C34-C35-C36-C37
9	f	101	A1ELD	C34-C35-C36-C37
9	g	101	A1ELD	C34-C35-C36-C37
9	q	101	A1ELD	C34-C35-C36-C37
11	G	103	PGV	O02-C1-O01-C02
11	L	308	PGV	C03-O11-P-O12
11	L	308	PGV	C03-O11-P-O13
11	L	308	PGV	C03-O11-P-O14
11	L	308	PGV	O03-C01-C02-O01
11	T	301	PGV	O03-C01-C02-C03
11	T	301	PGV	C01-C02-O01-C1
11	T	301	PGV	C03-C02-O01-C1
11	T	303	PGV	C03-O11-P-O12
11	T	303	PGV	C03-O11-P-O13
11	T	303	PGV	C03-O11-P-O14
12	L	309	LMT	O5B-C1B-O1B-C4'
12	L	309	LMT	C2-C1-O1'-C1'
13	L	303	BPH	C2C-C3C-CAC-CBC
13	L	305	BPH	C2C-C3C-CAC-CBC
14	L	304	UQ8	C12-C11-C9-C8
17	M	407	PEF	C2-C1-O3P-P
7	L	301	BCL	O1D-CGD-O2D-CED
7	P	101	BCL	CBD-CGD-O2D-CED
7	L	301	BCL	CBD-CGD-O2D-CED
7	M	401	BCL	CBD-CGD-O2D-CED
7	N	101	BCL	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
7	P	101	BCL	O1A-CGA-O2A-C1
7	f	102	BCL	O1A-CGA-O2A-C1
7	J	101	BCL	O1D-CGD-O2D-CED
7	N	101	BCL	CBA-CGA-O2A-C1
7	A	101	BCL	O1A-CGA-O2A-C1
7	E	101	BCL	O1A-CGA-O2A-C1
7	F	101	BCL	O1A-CGA-O2A-C1
7	R	101	BCL	O1A-CGA-O2A-C1
7	b	102	BCL	O1A-CGA-O2A-C1
7	o	102	BCL	O1A-CGA-O2A-C1
7	n	101	BCL	O1A-CGA-O2A-C1
7	e	102	BCL	O1A-CGA-O2A-C1
7	A	101	BCL	C3-C5-C6-C7
7	D	101	BCL	C3-C5-C6-C7
7	J	101	BCL	C3-C5-C6-C7
7	R	101	BCL	C3-C5-C6-C7
7	N	101	BCL	C3-C5-C6-C7
7	P	101	BCL	C3-C5-C6-C7
7	c	101	BCL	C3-C5-C6-C7
7	e	102	BCL	C3-C5-C6-C7
7	q	102	BCL	C3-C5-C6-C7
7	i	101	BCL	C3-C5-C6-C7
13	L	305	BPH	C3-C5-C6-C7
7	B	101	BCL	CBA-CGA-O2A-C1
7	P	101	BCL	CBA-CGA-O2A-C1
7	b	102	BCL	CBA-CGA-O2A-C1
7	n	101	BCL	CBA-CGA-O2A-C1
7	f	102	BCL	CBA-CGA-O2A-C1
7	M	401	BCL	O1D-CGD-O2D-CED
7	Q	101	BCL	C4-C3-C5-C6
7	O	101	BCL	C4-C3-C5-C6
7	g	102	BCL	C4-C3-C5-C6
14	M	402	UQ8	C25-C24-C26-C27
7	g	102	BCL	C2-C3-C5-C6
14	M	402	UQ8	C23-C24-C26-C27
7	Q	101	BCL	C3-C5-C6-C7
7	S	101	BCL	C3-C5-C6-C7
7	O	101	BCL	C3-C5-C6-C7
7	o	102	BCL	C3-C5-C6-C7
7	A	101	BCL	CBA-CGA-O2A-C1
7	E	101	BCL	CBA-CGA-O2A-C1
7	F	101	BCL	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
7	R	101	BCL	CBA-CGA-O2A-C1
7	O	101	BCL	CBA-CGA-O2A-C1
7	a	101	BCL	CBA-CGA-O2A-C1
7	o	102	BCL	CBA-CGA-O2A-C1
7	e	102	BCL	CBA-CGA-O2A-C1
9	R	103	A1ELD	C24-C25-C26-C27
7	B	101	BCL	O1A-CGA-O2A-C1
7	a	101	BCL	O1A-CGA-O2A-C1
7	c	101	BCL	O1A-CGA-O2A-C1
7	P	101	BCL	O1D-CGD-O2D-CED
7	s	101	BCL	C3-C5-C6-C7
7	k	101	BCL	C3-C5-C6-C7
7	M	401	BCL	CBA-CGA-O2A-C1
7	O	101	BCL	O1A-CGA-O2A-C1
7	B	101	BCL	CBD-CGD-O2D-CED
7	c	101	BCL	CBA-CGA-O2A-C1
7	B	101	BCL	C4-C3-C5-C6
14	M	402	UQ8	C30-C29-C31-C32
7	B	101	BCL	C2-C3-C5-C6
7	Q	101	BCL	C2-C3-C5-C6
7	O	101	BCL	C2-C3-C5-C6
14	M	402	UQ8	C28-C29-C31-C32
7	M	401	BCL	O1A-CGA-O2A-C1
13	L	305	BPH	CBD-CGD-O2D-CED
7	J	101	BCL	CBA-CGA-O2A-C1
13	L	305	BPH	CBA-CGA-O2A-C1
7	S	101	BCL	CBD-CGD-O2D-CED
7	q	102	BCL	CBD-CGD-O2D-CED
12	G	104	LMT	C4'-C5'-C6'-O6'
13	L	305	BPH	O1A-CGA-O2A-C1
12	L	309	LMT	C4B-C5B-C6B-O6B
7	d	102	BCL	C3-C5-C6-C7
7	J	101	BCL	O1A-CGA-O2A-C1
7	Q	101	BCL	CBA-CGA-O2A-C1
7	L	302	BCL	CBA-CGA-O2A-C1
7	E	101	BCL	C4-C3-C5-C6
7	F	101	BCL	C4-C3-C5-C6
7	E	101	BCL	C2-C3-C5-C6
7	F	101	BCL	C2-C3-C5-C6
7	O	101	BCL	CBD-CGD-O2D-CED
7	I	101	BCL	C11-C12-C13-C14
7	I	101	BCL	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
7	S	101	BCL	C11-C12-C13-C14
7	S	101	BCL	C14-C13-C15-C16
7	o	102	BCL	C6-C7-C8-C9
7	n	101	BCL	C6-C7-C8-C9
7	n	101	BCL	C11-C12-C13-C14
7	c	101	BCL	C6-C7-C8-C9
7	L	302	BCL	C6-C7-C8-C9
7	Q	101	BCL	O1A-CGA-O2A-C1
9	R	103	A1ELD	C23-C22-C24-C25
9	q	101	A1ELD	C33-C32-C34-C35
9	R	103	A1ELD	C13-C10-C9-C8
9	R	103	A1ELD	C21-C22-C24-C25
9	q	101	A1ELD	C31-C32-C34-C35
7	J	101	BCL	C2A-CAA-CBA-CGA
7	L	302	BCL	O1A-CGA-O2A-C1
7	F	101	BCL	C8-C10-C11-C12
7	G	101	BCL	CBD-CGD-O2D-CED
7	e	102	BCL	C8-C10-C11-C12
7	g	102	BCL	C5-C6-C7-C8
12	G	104	LMT	O5'-C5'-C6'-O6'
7	p	101	BCL	C3-C5-C6-C7
7	o	102	BCL	CBD-CGD-O2D-CED
7	G	101	BCL	C12-C13-C15-C16
7	Q	101	BCL	C11-C12-C13-C15
7	N	101	BCL	C11-C12-C13-C15
7	p	101	BCL	C6-C7-C8-C10
7	r	104	BCL	C11-C10-C8-C7
7	i	101	BCL	C11-C10-C8-C7
12	N	103	LMT	O5'-C5'-C6'-O6'
7	E	101	BCL	C8-C10-C11-C12
7	K	101	BCL	C5-C6-C7-C8
7	A	101	BCL	C5-C6-C7-C8
7	A	101	BCL	C13-C15-C16-C17
7	C	101	BCL	C5-C6-C7-C8
7	K	101	BCL	C15-C16-C17-C18
7	R	101	BCL	C5-C6-C7-C8
7	S	101	BCL	C10-C11-C12-C13
7	P	101	BCL	C8-C10-C11-C12
7	n	101	BCL	C13-C15-C16-C17
7	g	102	BCL	C2A-CAA-CBA-CGA
7	M	403	BCL	C2A-CAA-CBA-CGA
7	B	101	BCL	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
7	n	101	BCL	C10-C11-C12-C13
7	r	104	BCL	C15-C16-C17-C18
7	c	101	BCL	C15-C16-C17-C18
7	i	101	BCL	C5-C6-C7-C8
7	M	403	BCL	C10-C11-C12-C13
13	L	303	BPH	C13-C15-C16-C17
11	F	103	PGV	C1-C2-C3-C4
7	B	101	BCL	C8-C10-C11-C12
7	P	101	BCL	C13-C15-C16-C17
7	s	101	BCL	C15-C16-C17-C18
7	e	102	BCL	C13-C15-C16-C17
7	g	102	BCL	C8-C10-C11-C12
7	L	302	BCL	C15-C16-C17-C18
12	L	309	LMT	O5B-C5B-C6B-O6B
7	L	302	BCL	CBD-CGD-O2D-CED
7	p	101	BCL	C8-C10-C11-C12
7	O	101	BCL	C15-C16-C17-C18
7	B	101	BCL	O1D-CGD-O2D-CED
7	N	101	BCL	C5-C6-C7-C8
7	f	102	BCL	C8-C10-C11-C12
7	L	301	BCL	C15-C16-C17-C18
7	j	102	BCL	CBA-CGA-O2A-C1
7	r	104	BCL	C3-C5-C6-C7
7	I	101	BCL	C2A-CAA-CBA-CGA
7	a	101	BCL	C2A-CAA-CBA-CGA
7	r	104	BCL	CBA-CGA-O2A-C1
7	J	101	BCL	C8-C10-C11-C12
7	L	302	BCL	C3-C5-C6-C7
7	R	101	BCL	C13-C15-C16-C17
7	n	101	BCL	C15-C16-C17-C18
7	f	102	BCL	C10-C11-C12-C13
13	L	305	BPH	C13-C15-C16-C17
7	E	101	BCL	C10-C11-C12-C13
7	o	102	BCL	C8-C10-C11-C12
7	C	101	BCL	C4B-C3B-CAB-OBB
7	M	403	BCL	C4B-C3B-CAB-OBB
7	K	101	BCL	C8-C10-C11-C12
7	D	101	BCL	C16-C17-C18-C19
7	Q	101	BCL	C16-C17-C18-C19
7	C	101	BCL	C10-C11-C12-C13
8	r	102	A1EL2	C27-C26-C28-C29
9	R	103	A1ELD	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
7	R	101	BCL	C2A-CAA-CBA-CGA
7	F	101	BCL	C10-C11-C12-C13
7	s	101	BCL	CBD-CGD-O2D-CED
7	C	101	BCL	C2B-C3B-CAB-CBB
7	r	104	BCL	C16-C17-C18-C19
7	C	101	BCL	C3-C5-C6-C7
7	g	102	BCL	C3-C5-C6-C7
7	s	101	BCL	CBA-CGA-O2A-C1
7	j	102	BCL	C8-C10-C11-C12
7	q	102	BCL	O1D-CGD-O2D-CED
7	s	101	BCL	C16-C17-C18-C19
7	r	104	BCL	C16-C17-C18-C20
7	c	101	BCL	C16-C17-C18-C20
7	r	104	BCL	O1A-CGA-O2A-C1
7	q	102	BCL	C13-C15-C16-C17
7	j	102	BCL	O1A-CGA-O2A-C1
12	G	104	LMT	C2-C1-O1'-C1'
12	N	103	LMT	C2-C1-O1'-C1'
7	S	101	BCL	O1D-CGD-O2D-CED
13	L	305	BPH	O1D-CGD-O2D-CED
7	C	101	BCL	C13-C15-C16-C17
7	d	102	BCL	C8-C10-C11-C12
11	G	103	PGV	C21-C22-C23-C24
7	B	101	BCL	C16-C17-C18-C20
7	S	101	BCL	C11-C10-C8-C7
7	p	101	BCL	C10-C11-C12-C13
11	G	103	PGV	C23-C24-C25-C26
7	A	101	BCL	C3A-C2A-CAA-CBA
7	D	101	BCL	C3A-C2A-CAA-CBA
7	E	101	BCL	C3A-C2A-CAA-CBA
7	F	101	BCL	C3A-C2A-CAA-CBA
7	I	101	BCL	C3A-C2A-CAA-CBA
7	S	101	BCL	C3A-C2A-CAA-CBA
7	b	102	BCL	C3A-C2A-CAA-CBA
7	p	101	BCL	C3A-C2A-CAA-CBA
7	s	101	BCL	C3A-C2A-CAA-CBA
7	r	104	BCL	C3A-C2A-CAA-CBA
7	k	101	BCL	C3A-C2A-CAA-CBA
7	j	102	BCL	C3A-C2A-CAA-CBA
7	c	101	BCL	C3A-C2A-CAA-CBA
7	d	102	BCL	C3A-C2A-CAA-CBA
7	e	102	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
7	f	102	BCL	C3A-C2A-CAA-CBA
7	q	102	BCL	C3A-C2A-CAA-CBA
7	i	101	BCL	C3A-C2A-CAA-CBA
7	M	403	BCL	C3A-C2A-CAA-CBA
7	R	101	BCL	C10-C11-C12-C13
7	L	301	BCL	C13-C15-C16-C17
7	O	101	BCL	C16-C17-C18-C19
7	O	101	BCL	C16-C17-C18-C20
19	T	302	LHG	C27-C28-C29-C30
7	s	101	BCL	O1A-CGA-O2A-C1
7	Q	101	BCL	C16-C17-C18-C20
7	s	101	BCL	C16-C17-C18-C20
11	T	301	PGV	C1-C2-C3-C4
9	A	103	A1ELD	C2-C3-C8-C9
9	C	102	A1ELD	C2-C3-C8-C9
9	b	101	A1ELD	C2-C3-C8-C9
7	D	101	BCL	CBD-CGD-O2D-CED
11	T	301	PGV	C20-C19-O03-C01
7	P	101	BCL	C4-C3-C5-C6
8	r	102	A1EL2	C21-C23-C24-C25
7	D	101	BCL	C16-C17-C18-C20
7	k	101	BCL	CBA-CGA-O2A-C1
7	q	102	BCL	CBA-CGA-O2A-C1
7	O	101	BCL	C11-C10-C8-C9
7	R	101	BCL	C15-C16-C17-C18
7	n	101	BCL	C3-C5-C6-C7
7	R	101	BCL	C16-C17-C18-C20
7	c	101	BCL	C16-C17-C18-C19
7	q	102	BCL	C5-C6-C7-C8
13	L	305	BPH	C5-C6-C7-C8
7	d	102	BCL	C4-C3-C5-C6
7	d	102	BCL	C2-C3-C5-C6
10	Q	104	8K6	C13-C14-C15-C16
7	S	101	BCL	C15-C16-C17-C18
7	j	102	BCL	C15-C16-C17-C18
7	B	101	BCL	C16-C17-C18-C19
7	k	101	BCL	O1A-CGA-O2A-C1
7	o	102	BCL	C10-C11-C12-C13
7	c	101	BCL	C13-C15-C16-C17
7	d	102	BCL	C10-C11-C12-C13
7	i	101	BCL	C15-C16-C17-C18
11	M	408	PGV	O03-C01-C02-O01

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Mol	Chain	Res	Type	Atoms
7	r	104	BCL	C4-C3-C5-C6
7	g	102	BCL	C15-C16-C17-C18
7	S	101	BCL	C2A-CAA-CBA-CGA
7	G	101	BCL	O1D-CGD-O2D-CED
7	a	101	BCL	C8-C10-C11-C12
7	q	102	BCL	C15-C16-C17-C18
11	T	301	PGV	O04-C19-O03-C01
7	A	101	BCL	C1A-C2A-CAA-CBA
7	E	101	BCL	C1A-C2A-CAA-CBA
7	F	101	BCL	C1A-C2A-CAA-CBA
7	Q	101	BCL	C1A-C2A-CAA-CBA
7	I	101	BCL	C1A-C2A-CAA-CBA
7	S	101	BCL	C1A-C2A-CAA-CBA
7	N	101	BCL	C1A-C2A-CAA-CBA
7	b	102	BCL	C1A-C2A-CAA-CBA
7	a	101	BCL	C1A-C2A-CAA-CBA
7	p	101	BCL	C1A-C2A-CAA-CBA
7	s	101	BCL	C1A-C2A-CAA-CBA
7	r	104	BCL	C1A-C2A-CAA-CBA
7	k	101	BCL	C1A-C2A-CAA-CBA
7	j	102	BCL	C1A-C2A-CAA-CBA
7	c	101	BCL	C1A-C2A-CAA-CBA
7	d	102	BCL	C1A-C2A-CAA-CBA
7	e	102	BCL	C1A-C2A-CAA-CBA
7	f	102	BCL	C1A-C2A-CAA-CBA
7	q	102	BCL	C1A-C2A-CAA-CBA
7	i	101	BCL	C1A-C2A-CAA-CBA
7	L	302	BCL	C1A-C2A-CAA-CBA
7	r	104	BCL	C13-C15-C16-C17
7	k	101	BCL	C5-C6-C7-C8
7	q	102	BCL	O1A-CGA-O2A-C1
7	J	101	BCL	C15-C16-C17-C18
7	a	101	BCL	C10-C11-C12-C13
11	D	103	PGV	C01-C02-C03-O11
7	B	101	BCL	C11-C10-C8-C7
7	C	101	BCL	C12-C13-C15-C16
7	D	101	BCL	C11-C10-C8-C7
7	R	101	BCL	C11-C10-C8-C7
7	b	102	BCL	C12-C13-C15-C16
7	a	101	BCL	C6-C7-C8-C10
7	p	101	BCL	C11-C10-C8-C7
7	f	102	BCL	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
7	g	102	BCL	C6-C7-C8-C10
7	q	102	BCL	C11-C10-C8-C7
13	L	305	BPH	C11-C10-C8-C7
7	P	101	BCL	C10-C11-C12-C13
7	c	101	BCL	C4-C3-C5-C6
7	J	101	BCL	C2-C3-C5-C6
7	A	101	BCL	C15-C16-C17-C18
7	B	101	BCL	C2A-CAA-CBA-CGA
7	D	101	BCL	C11-C10-C8-C9
7	R	101	BCL	C11-C10-C8-C9
7	p	101	BCL	C11-C10-C8-C9
7	i	101	BCL	C6-C7-C8-C9
7	i	101	BCL	C11-C10-C8-C9
13	L	305	BPH	C11-C10-C8-C9
7	K	101	BCL	CBA-CGA-O2A-C1
7	O	101	BCL	C13-C15-C16-C17
11	F	103	PGV	C19-C20-C21-C22
11	L	308	PGV	O03-C01-C02-C03
13	L	303	BPH	C3-C5-C6-C7
7	c	101	BCL	C8-C10-C11-C12
7	O	101	BCL	O1D-CGD-O2D-CED
7	S	101	BCL	CBA-CGA-O2A-C1
7	d	102	BCL	CBA-CGA-O2A-C1
12	L	309	LMT	O5'-C5'-C6'-O6'
7	K	101	BCL	C16-C17-C18-C20
7	S	101	BCL	C16-C17-C18-C20
8	r	102	A1EL2	C24-C25-C26-C27
10	Q	104	8K6	C5-C6-C7-C8
7	J	101	BCL	C4-C3-C5-C6
7	P	101	BCL	C2-C3-C5-C6
7	n	101	BCL	C2-C3-C5-C6
7	r	104	BCL	C2-C3-C5-C6
7	K	101	BCL	C10-C11-C12-C13
7	p	101	BCL	C5-C6-C7-C8
11	M	408	PGV	C3-C4-C5-C6
11	M	408	PGV	C4-C5-C6-C7
10	M	406	8K6	C10-C11-C12-C13
7	o	102	BCL	O1D-CGD-O2D-CED
7	C	101	BCL	C2B-C3B-CAB-OB
7	j	102	BCL	C13-C15-C16-C17
13	L	305	BPH	C8-C10-C11-C12
7	S	101	BCL	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
7	d	102	BCL	O1A-CGA-O2A-C1
8	r	102	A1EL2	C24-C25-C26-C28
7	L	302	BCL	O1D-CGD-O2D-CED
7	c	101	BCL	C2-C3-C5-C6
7	c	101	BCL	CBD-CGD-O2D-CED
11	D	103	PGV	C26-C27-C28-C29
7	K	101	BCL	O1A-CGA-O2A-C1
11	G	103	PGV	O03-C01-C02-O01
7	Q	101	BCL	C2A-CAA-CBA-CGA
7	P	101	BCL	C2A-CAA-CBA-CGA
12	L	309	LMT	C5'-C4'-O1B-C1B
7	e	102	BCL	C5-C6-C7-C8
7	D	101	BCL	O1D-CGD-O2D-CED
7	n	101	BCL	C4-C3-C5-C6
7	B	101	BCL	C11-C10-C8-C9
7	D	101	BCL	C6-C7-C8-C9
7	Q	101	BCL	C11-C12-C13-C14
7	K	101	BCL	C11-C12-C13-C14
7	b	102	BCL	C14-C13-C15-C16
7	a	101	BCL	C11-C10-C8-C9
7	f	102	BCL	C11-C12-C13-C14
7	g	102	BCL	C6-C7-C8-C9
7	q	102	BCL	C6-C7-C8-C9
7	I	101	BCL	C5-C6-C7-C8
7	M	403	BCL	C16-C17-C18-C20
7	i	101	BCL	CBA-CGA-O2A-C1
7	b	102	BCL	C8-C10-C11-C12
11	L	307	PGV	C01-C02-C03-O11
16	M	405	H4X	C3-C1-C4-C5
16	M	405	H4X	C2-C1-C4-C5
7	D	101	BCL	C6-C7-C8-C10
7	E	101	BCL	C6-C7-C8-C10
7	F	101	BCL	C6-C7-C8-C10
7	K	101	BCL	C11-C12-C13-C15
7	a	101	BCL	C11-C10-C8-C7
7	n	101	BCL	C11-C12-C13-C15
7	d	102	BCL	C6-C7-C8-C10
7	q	102	BCL	C6-C7-C8-C10
7	i	101	BCL	C6-C7-C8-C10
7	f	102	BCL	C15-C16-C17-C18
7	K	101	BCL	C16-C17-C18-C19
7	B	101	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
7	L	302	BCL	C8-C10-C11-C12
7	s	101	BCL	O1D-CGD-O2D-CED
14	L	304	UQ8	C12-C11-C9-C10
7	k	101	BCL	CBD-CGD-O2D-CED
11	M	408	PGV	O03-C01-C02-C03
10	Q	103	8K6	C4-C5-C6-C7
10	H	301	8K6	C4-C5-C6-C7
7	E	101	BCL	C16-C17-C18-C20
11	D	103	PGV	O01-C02-C03-O11
11	L	307	PGV	O01-C02-C03-O11
8	J	102	A1EL2	C28-C29-C30-C31
8	r	102	A1EL2	C11-C10-C3-C4
9	B	103	A1ELD	C2-C3-C8-C9
9	J	103	A1ELD	C2-C3-C8-C9
9	R	102	A1ELD	C2-C3-C8-C9
9	o	101	A1ELD	C2-C3-C8-C9
9	j	101	A1ELD	C2-C3-C8-C9
9	d	101	A1ELD	C2-C3-C8-C9
9	e	101	A1ELD	C2-C3-C8-C9
9	f	101	A1ELD	C2-C3-C8-C9
9	g	101	A1ELD	C2-C3-C8-C9
9	q	101	A1ELD	C2-C3-C8-C9
7	K	101	BCL	C13-C15-C16-C17
11	T	303	PGV	C1-C2-C3-C4
7	s	101	BCL	C4-C3-C5-C6
7	Q	101	BCL	C8-C10-C11-C12
7	b	102	BCL	C15-C16-C17-C18
7	R	101	BCL	C16-C17-C18-C19
7	j	102	BCL	C10-C11-C12-C13
7	D	101	BCL	C4B-C3B-CAB-OBB
7	E	101	BCL	C6-C7-C8-C9
7	F	101	BCL	C6-C7-C8-C9
7	b	102	BCL	C11-C10-C8-C9
8	r	102	A1EL2	C26-C28-C29-C30
7	F	101	BCL	C16-C17-C18-C20
7	q	102	BCL	C16-C17-C18-C19
7	D	101	BCL	CBA-CGA-O2A-C1
11	L	308	PGV	C20-C19-O03-C01
7	s	101	BCL	C2-C3-C5-C6
11	L	308	PGV	C2-C1-O01-C02
7	L	301	BCL	C5-C6-C7-C8
7	G	101	BCL	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
7	O	101	BCL	C10-C11-C12-C13
7	M	403	BCL	C5-C6-C7-C8
7	G	101	BCL	C11-C10-C8-C7
7	G	101	BCL	C11-C12-C13-C15
7	I	101	BCL	C12-C13-C15-C16
7	J	101	BCL	C11-C10-C8-C7
7	O	101	BCL	C12-C13-C15-C16
7	o	102	BCL	C6-C7-C8-C10
7	c	101	BCL	C6-C7-C8-C10
7	f	102	BCL	C11-C10-C8-C7
9	O	102	A1ELD	C34-C35-C36-C37
7	s	101	BCL	C5-C6-C7-C8
7	c	101	BCL	C10-C11-C12-C13
8	r	102	A1EL2	C25-C26-C28-C29
7	D	101	BCL	O1A-CGA-O2A-C1
14	L	304	UQ8	C1-C6-C7-C8
7	S	101	BCL	C16-C17-C18-C19
11	F	103	PGV	C2-C1-O01-C02
7	o	102	BCL	C4-C3-C5-C6
7	i	101	BCL	O1A-CGA-O2A-C1
7	R	101	BCL	C8-C10-C11-C12
7	M	403	BCL	C16-C17-C18-C19
11	G	103	PGV	C22-C23-C24-C25
7	p	101	BCL	C15-C16-C17-C18
9	A	103	A1ELD	O13-C12-C27-C26
9	B	103	A1ELD	O13-C12-C27-C26
9	C	102	A1ELD	O13-C12-C27-C26
9	J	103	A1ELD	O13-C12-C27-C26
9	R	102	A1ELD	O13-C12-C27-C26
9	R	103	A1ELD	O13-C12-C27-C26
9	O	102	A1ELD	O13-C12-C27-C26
9	b	101	A1ELD	O13-C12-C27-C26
9	o	101	A1ELD	O13-C12-C27-C26
9	r	101	A1ELD	O13-C12-C27-C26
9	j	101	A1ELD	O13-C12-C27-C26
9	d	101	A1ELD	O13-C12-C27-C26
9	e	101	A1ELD	O13-C12-C27-C26
9	f	101	A1ELD	O13-C12-C27-C26
9	g	101	A1ELD	O13-C12-C27-C26
9	q	101	A1ELD	O13-C12-C27-C26
14	L	304	UQ8	C5-C6-C7-C8
7	C	101	BCL	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
7	J	101	BCL	C11-C10-C8-C9
7	s	101	BCL	C11-C10-C8-C9
11	L	308	PGV	O02-C1-O01-C02
12	N	103	LMT	C4'-C5'-C6'-O6'
7	k	101	BCL	O1D-CGD-O2D-CED
7	c	101	BCL	O1D-CGD-O2D-CED
7	k	101	BCL	C4-C3-C5-C6
7	n	101	BCL	C5-C6-C7-C8
7	p	101	BCL	O1A-CGA-O2A-C1
7	b	102	BCL	C13-C15-C16-C17
19	T	302	LHG	C23-C24-C25-C26
11	F	103	PGV	C6-C7-C8-C9
7	G	101	BCL	C1A-C2A-CAA-CBA
11	M	408	PGV	C01-C02-C03-O11
11	T	303	PGV	C01-C02-C03-O11
11	F	103	PGV	O02-C1-O01-C02
7	B	101	BCL	C6-C7-C8-C10
7	G	101	BCL	C6-C7-C8-C10
7	Q	101	BCL	C12-C13-C15-C16
7	N	101	BCL	C12-C13-C15-C16
7	p	101	BCL	C11-C12-C13-C15
7	k	101	BCL	C6-C7-C8-C10
7	k	101	BCL	C11-C12-C13-C15
7	L	302	BCL	C6-C7-C8-C10
7	L	302	BCL	C11-C10-C8-C7
7	M	403	BCL	C12-C13-C15-C16
11	L	308	PGV	O04-C19-O03-C01
7	p	101	BCL	CBA-CGA-O2A-C1
7	E	101	BCL	C16-C17-C18-C19
11	M	408	PGV	O01-C02-C03-O11
11	T	303	PGV	O01-C02-C03-O11
7	F	101	BCL	C3-C5-C6-C7
7	L	301	BCL	C2A-CAA-CBA-CGA
7	G	101	BCL	C11-C12-C13-C14
7	G	101	BCL	C14-C13-C15-C16
7	N	101	BCL	C11-C12-C13-C14
7	O	101	BCL	C14-C13-C15-C16
7	a	101	BCL	C6-C7-C8-C9
7	p	101	BCL	C6-C7-C8-C9
7	f	102	BCL	C11-C10-C8-C9
7	M	403	BCL	C15-C16-C17-C18
13	L	303	BPH	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
7	o	102	BCL	C15-C16-C17-C18
12	L	309	LMT	C3'-C4'-O1B-C1B
11	G	103	PGV	O03-C01-C02-C03
13	L	305	BPH	C4C-C3C-CAC-CBC
13	L	303	BPH	O1A-CGA-O2A-C1
13	L	303	BPH	CBA-CGA-O2A-C1
7	M	401	BCL	CHA-CBD-CGD-O1D
11	D	103	PGV	C03-O11-P-O13
7	G	101	BCL	C3-C5-C6-C7
8	G	102	A1EL2	C11-C10-C3-C4
7	k	101	BCL	C2-C3-C5-C6
7	q	102	BCL	C16-C17-C18-C20
10	C	104	8K6	C6-C7-C8-C9
7	o	102	BCL	C2-C3-C5-C6
7	o	102	BCL	C13-C15-C16-C17
12	G	104	LMT	C3-C4-C5-C6
7	G	101	BCL	C11-C10-C8-C9
7	c	101	BCL	C14-C13-C15-C16
7	S	101	BCL	C11-C12-C13-C15
7	c	101	BCL	C11-C10-C8-C7
7	D	101	BCL	C13-C15-C16-C17
7	d	102	BCL	C15-C16-C17-C18
7	c	101	BCL	C5-C6-C7-C8
7	F	101	BCL	C16-C17-C18-C19
7	R	101	BCL	C4-C3-C5-C6
11	T	303	PGV	O03-C19-C20-C21
7	i	101	BCL	O1D-CGD-O2D-CED
7	p	101	BCL	C16-C17-C18-C19
7	f	102	BCL	C4-C3-C5-C6
11	F	103	PGV	C22-C23-C24-C25
10	C	104	8K6	C11-C10-C9-C8
7	B	101	BCL	C6-C7-C8-C9
7	k	101	BCL	C11-C12-C13-C14
14	L	306	UQ8	C2-C3-O3-C3M
7	a	101	BCL	C4-C3-C5-C6
10	S	102	8K6	C7-C8-C9-C10
7	G	101	BCL	C16-C17-C18-C19
7	B	101	BCL	C12-C13-C15-C16
7	I	101	BCL	C10-C11-C12-C13
7	E	101	BCL	C3-C5-C6-C7
7	M	401	BCL	C5-C6-C7-C8
7	G	101	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
7	M	401	BCL	C3A-C2A-CAA-CBA
17	M	407	PEF	C14-C15-C16-C17
7	F	101	BCL	C5-C6-C7-C8
7	E	101	BCL	C5-C6-C7-C8
7	B	101	BCL	C13-C15-C16-C17
7	B	101	BCL	C14-C13-C15-C16
7	G	101	BCL	C6-C7-C8-C9
7	Q	101	BCL	C14-C13-C15-C16
7	K	101	BCL	C14-C13-C15-C16
7	P	101	BCL	C6-C7-C8-C9
7	p	101	BCL	C11-C12-C13-C14
7	i	101	BCL	C14-C13-C15-C16
13	L	303	BPH	C11-C10-C8-C9
13	L	305	BPH	C14-C13-C15-C16
7	G	101	BCL	C5-C6-C7-C8
7	I	101	BCL	C16-C17-C18-C20
7	i	101	BCL	CBD-CGD-O2D-CED
11	F	103	PGV	C7-C8-C9-C10
7	K	101	BCL	C1A-C2A-CAA-CBA
7	O	101	BCL	C1A-C2A-CAA-CBA
7	r	104	BCL	C5-C6-C7-C8
7	d	102	BCL	C13-C15-C16-C17
8	Q	102	A1EL2	C11-C10-C3-C4
8	I	102	A1EL2	C11-C10-C3-C4
8	I	102	A1EL2	C28-C29-C30-C35
8	J	102	A1EL2	C28-C29-C30-C35
8	N	102	A1EL2	C11-C10-C3-C4
8	P	102	A1EL2	C11-C10-C3-C4
8	r	102	A1EL2	C11-C10-C3-C2
8	r	103	A1EL2	C28-C29-C30-C35
9	A	103	A1ELD	C4-C3-C8-C9
9	B	103	A1ELD	C4-C3-C8-C9
9	C	102	A1ELD	C4-C3-C8-C9
9	J	103	A1ELD	C4-C3-C8-C9
9	R	102	A1ELD	C4-C3-C8-C9
9	b	101	A1ELD	C4-C3-C8-C9
9	o	101	A1ELD	C4-C3-C8-C9
9	j	101	A1ELD	C4-C3-C8-C9
9	d	101	A1ELD	C4-C3-C8-C9
9	e	101	A1ELD	C4-C3-C8-C9
9	f	101	A1ELD	C4-C3-C8-C9
9	g	101	A1ELD	C4-C3-C8-C9

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Mol	Chain	Res	Type	Atoms
9	q	101	A1ELD	C4-C3-C8-C9
10	Q	104	8K6	C10-C11-C12-C13
7	Q	101	BCL	C11-C10-C8-C7
7	n	101	BCL	C6-C7-C8-C10
13	L	303	BPH	C11-C10-C8-C7
11	T	303	PGV	C21-C22-C23-C24
7	I	101	BCL	C15-C16-C17-C18
10	C	104	8K6	C7-C8-C9-C10
10	Q	104	8K6	C6-C7-C8-C9
14	L	304	UQ8	C7-C8-C9-C10
14	L	306	UQ8	C5-C4-O4-C4M
11	D	103	PGV	C25-C26-C27-C28
7	a	101	BCL	C15-C16-C17-C18
7	C	101	BCL	C4-C3-C5-C6
7	p	101	BCL	C4-C3-C5-C6
14	M	402	UQ8	C15-C14-C16-C17
7	S	101	BCL	C8-C10-C11-C12
7	a	101	BCL	C2-C3-C5-C6
7	e	102	BCL	C11-C10-C8-C9
7	f	102	BCL	C5-C6-C7-C8
14	M	402	UQ8	C35-C34-C36-C37
11	F	103	PGV	O03-C01-C02-C03
11	M	408	PGV	C5-C6-C7-C8
7	A	101	BCL	C16-C17-C18-C20
14	M	402	UQ8	C33-C34-C36-C37
7	C	101	BCL	C6-C7-C8-C10
7	I	101	BCL	C11-C12-C13-C15
7	p	101	BCL	C12-C13-C15-C16
7	C	101	BCL	C6-C7-C8-C9
7	F	101	BCL	C11-C10-C8-C9
7	o	102	BCL	C11-C10-C8-C9
7	k	101	BCL	C6-C7-C8-C9
7	M	403	BCL	C11-C10-C8-C9
7	M	403	BCL	C14-C13-C15-C16
13	L	305	BPH	C15-C16-C17-C18
7	p	101	BCL	C2-C1-O2A-CGA
7	I	101	BCL	C4-C3-C5-C6
7	K	101	BCL	C3A-C2A-CAA-CBA
10	S	102	8K6	C5-C6-C7-C8
7	J	101	BCL	C5-C6-C7-C8
11	M	408	PGV	C2-C3-C4-C5
11	M	408	PGV	O02-C1-O01-C02

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Mol	Chain	Res	Type	Atoms
7	G	101	BCL	C16-C17-C18-C20
7	p	101	BCL	C16-C17-C18-C20
7	g	102	BCL	CAA-CBA-CGA-O2A
7	N	101	BCL	C14-C13-C15-C16
7	r	104	BCL	C11-C12-C13-C14
7	g	102	BCL	C11-C10-C8-C9
7	L	302	BCL	C11-C10-C8-C9
7	R	101	BCL	CAA-CBA-CGA-O2A
7	b	102	BCL	CAA-CBA-CGA-O2A
7	e	102	BCL	CAA-CBA-CGA-O2A
11	L	307	PGV	O01-C1-C2-C3
7	S	101	BCL	CAA-CBA-CGA-O2A
11	D	103	PGV	C20-C21-C22-C23
7	F	101	BCL	C11-C10-C8-C7
7	P	101	BCL	C11-C10-C8-C7
7	e	102	BCL	C11-C10-C8-C7
7	M	403	BCL	C11-C10-C8-C7
13	L	305	BPH	C12-C13-C15-C16
8	A	102	A1EL2	C11-C10-C3-C4
8	A	102	A1EL2	C28-C29-C30-C31
8	A	102	A1EL2	C28-C29-C30-C35
8	B	102	A1EL2	C11-C10-C3-C4
8	B	102	A1EL2	C28-C29-C30-C31
8	B	102	A1EL2	C28-C29-C30-C35
8	C	103	A1EL2	C11-C10-C3-C2
8	C	103	A1EL2	C11-C10-C3-C4
8	C	103	A1EL2	C28-C29-C30-C31
8	C	103	A1EL2	C28-C29-C30-C35
8	D	102	A1EL2	C11-C10-C3-C4
8	D	102	A1EL2	C28-C29-C30-C31
8	D	102	A1EL2	C28-C29-C30-C35
8	E	102	A1EL2	C11-C10-C3-C4
8	E	102	A1EL2	C28-C29-C30-C31
8	E	102	A1EL2	C28-C29-C30-C35
8	F	102	A1EL2	C11-C10-C3-C4
8	F	102	A1EL2	C28-C29-C30-C31
8	F	102	A1EL2	C28-C29-C30-C35
8	G	102	A1EL2	C28-C29-C30-C31
8	G	102	A1EL2	C28-C29-C30-C35
8	Q	102	A1EL2	C11-C10-C3-C2
8	Q	102	A1EL2	C28-C29-C30-C31
8	Q	102	A1EL2	C28-C29-C30-C35

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Mol	Chain	Res	Type	Atoms
8	I	102	A1EL2	C11-C10-C3-C2
8	I	102	A1EL2	C28-C29-C30-C31
8	K	102	A1EL2	C11-C10-C3-C4
8	K	102	A1EL2	C28-C29-C30-C31
8	K	102	A1EL2	C28-C29-C30-C35
8	N	102	A1EL2	C11-C10-C3-C2
8	O	103	A1EL2	C28-C29-C30-C31
8	O	103	A1EL2	C28-C29-C30-C35
8	P	102	A1EL2	C11-C10-C3-C2
8	P	102	A1EL2	C28-C29-C30-C31
8	P	102	A1EL2	C28-C29-C30-C35
8	r	103	A1EL2	C28-C29-C30-C31
9	O	102	A1ELD	C2-C3-C8-C9
7	c	101	BCL	C2-C1-O2A-CGA
7	I	101	BCL	C2-C3-C5-C6
7	R	101	BCL	C2-C3-C5-C6
7	I	101	BCL	CAA-CBA-CGA-O2A
7	f	102	BCL	C3-C5-C6-C7
7	S	101	BCL	C13-C15-C16-C17
7	f	102	BCL	C2-C3-C5-C6
11	M	408	PGV	C2-C1-O01-C02
7	E	101	BCL	C11-C10-C8-C9
7	a	101	BCL	CAA-CBA-CGA-O2A
7	M	401	BCL	C1A-C2A-CAA-CBA
14	L	304	UQ8	C5-C4-O4-C4M
11	T	303	PGV	O03-C01-C02-O01
10	M	406	8K6	C4-C5-C6-C7
7	M	401	BCL	CAA-CBA-CGA-O2A
11	D	103	PGV	O03-C19-C20-C21
7	K	101	BCL	C4-C3-C5-C6
13	L	303	BPH	C2-C1-O2A-CGA
11	D	103	PGV	C30-C31-C32-C33
7	K	101	BCL	C6-C7-C8-C10
7	S	101	BCL	C12-C13-C15-C16
7	C	101	BCL	C2-C3-C5-C6
14	M	402	UQ8	C13-C14-C16-C17
7	N	101	BCL	C10-C11-C12-C13
10	Q	103	8K6	C6-C7-C8-C9
7	C	101	BCL	C2C-C3C-CAC-CBC
7	k	101	BCL	C15-C16-C17-C18
7	R	101	BCL	CAA-CBA-CGA-O1A
11	T	301	PGV	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
7	O	101	BCL	C3A-C2A-CAA-CBA
13	L	303	BPH	C3A-C2A-CAA-CBA
7	I	101	BCL	C16-C17-C18-C19
7	i	101	BCL	C16-C17-C18-C20
7	s	101	BCL	CAA-CBA-CGA-O2A
7	g	102	BCL	CAA-CBA-CGA-O1A
11	D	103	PGV	O04-C19-C20-C21
11	L	308	PGV	C1-C2-C3-C4
14	M	402	UQ8	C41-C42-C43-C44
7	D	101	BCL	C14-C13-C15-C16
7	Q	101	BCL	C11-C10-C8-C9
7	S	101	BCL	C11-C10-C8-C9
7	p	101	BCL	C14-C13-C15-C16
7	r	104	BCL	C11-C10-C8-C9
19	T	302	LHG	C26-C27-C28-C29
11	L	308	PGV	O12-C04-C05-O05
7	S	101	BCL	C5-C6-C7-C8
11	M	408	PGV	O01-C1-C2-C3
7	I	101	BCL	CAA-CBA-CGA-O1A
7	S	101	BCL	CAA-CBA-CGA-O1A
7	s	101	BCL	C13-C15-C16-C17
11	D	103	PGV	O02-C1-O01-C02
11	L	308	PGV	O12-C04-C05-C06
11	L	307	PGV	O02-C1-C2-C3
7	G	101	BCL	CAA-CBA-CGA-O2A
10	L	313	8K6	C10-C11-C12-C13
7	e	102	BCL	CAA-CBA-CGA-O1A
7	C	101	BCL	CAD-CBD-CGD-O2D
7	K	101	BCL	CAD-CBD-CGD-O2D
13	L	303	BPH	C4C-C3C-CAC-CBC
13	L	305	BPH	CAD-CBD-CGD-O2D
7	b	102	BCL	CAA-CBA-CGA-O1A
11	F	103	PGV	C9-C10-C11-C12
7	J	101	BCL	C2-C1-O2A-CGA
7	r	104	BCL	CAA-CBA-CGA-O2A
7	N	101	BCL	CAA-CBA-CGA-O2A
7	a	101	BCL	CAA-CBA-CGA-O1A
7	s	101	BCL	CAA-CBA-CGA-O1A
11	T	303	PGV	C20-C21-C22-C23

There are no ring outliers.

79 monomers are involved in 220 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	S	101	BCL	3	0
7	E	101	BCL	3	0
7	b	102	BCL	8	0
8	r	103	A1EL2	1	0
7	q	102	BCL	3	0
10	C	104	8K6	1	0
8	F	102	A1EL2	1	0
9	g	101	A1ELD	3	0
10	L	313	8K6	7	0
7	k	101	BCL	3	0
7	o	102	BCL	4	0
8	D	102	A1EL2	1	0
10	Q	103	8K6	4	0
10	L	310	8K6	1	0
14	M	402	UQ8	1	0
9	f	101	A1ELD	7	0
7	L	302	BCL	7	0
7	p	101	BCL	3	0
11	D	103	PGV	8	0
7	N	101	BCL	3	0
19	T	302	LHG	3	0
8	r	102	A1EL2	8	0
10	S	102	8K6	1	0
8	K	102	A1EL2	1	0
7	L	301	BCL	2	0
8	J	102	A1EL2	3	0
8	P	102	A1EL2	1	0
11	L	307	PGV	1	0
7	M	401	BCL	1	0
7	f	102	BCL	5	0
7	s	101	BCL	3	0
7	c	101	BCL	3	0
10	M	406	8K6	1	0
7	R	101	BCL	2	0
11	L	308	PGV	3	0
9	O	102	A1ELD	1	0
8	E	102	A1EL2	1	0
8	A	102	A1EL2	1	0
8	Q	102	A1EL2	1	0
7	M	403	BCL	3	0
11	T	303	PGV	3	0
13	L	303	BPH	5	0
8	I	102	A1EL2	4	0

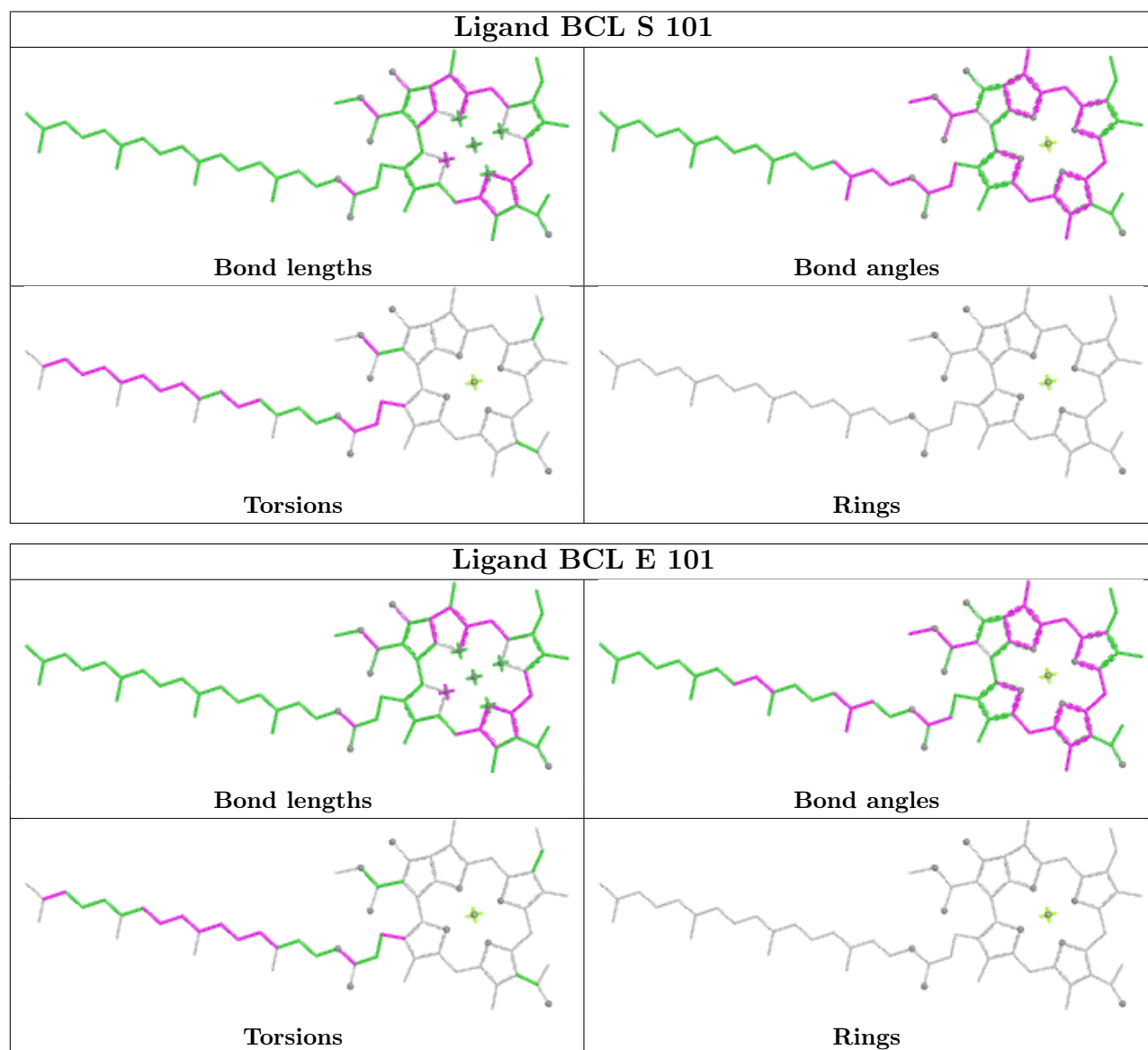
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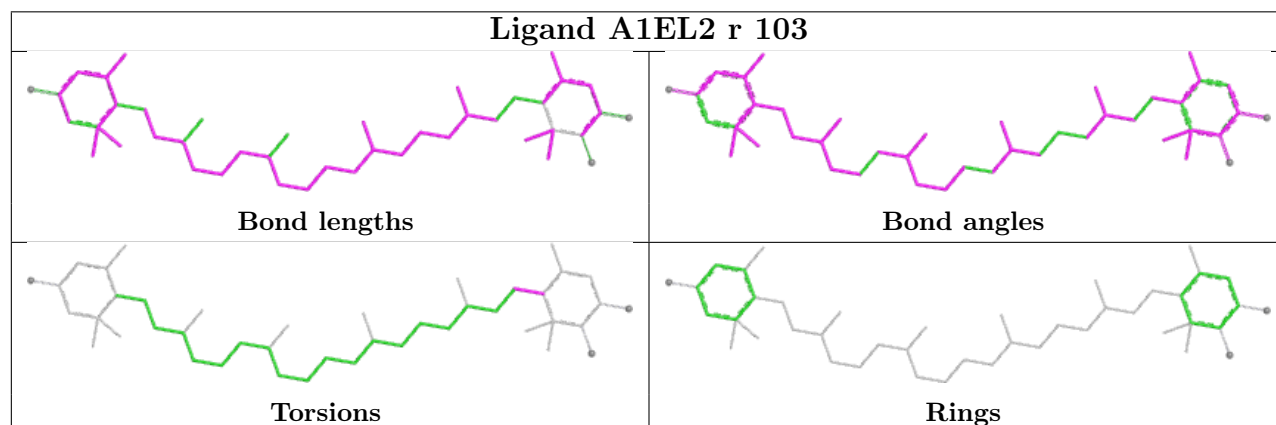
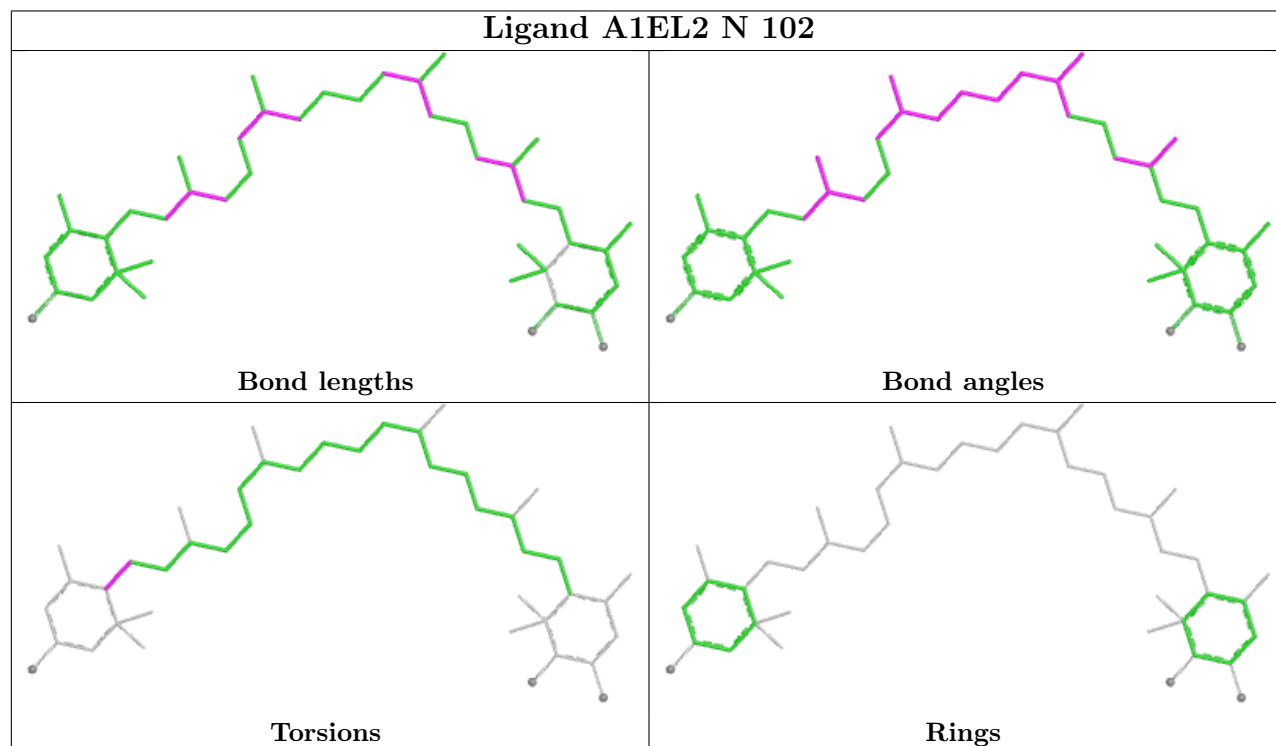
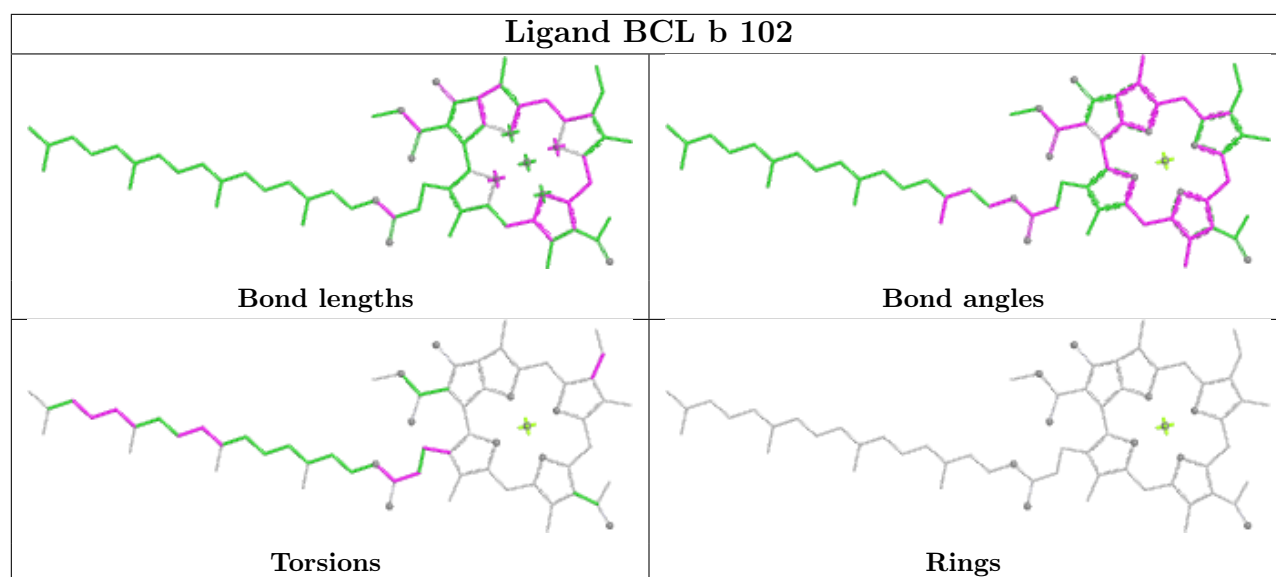
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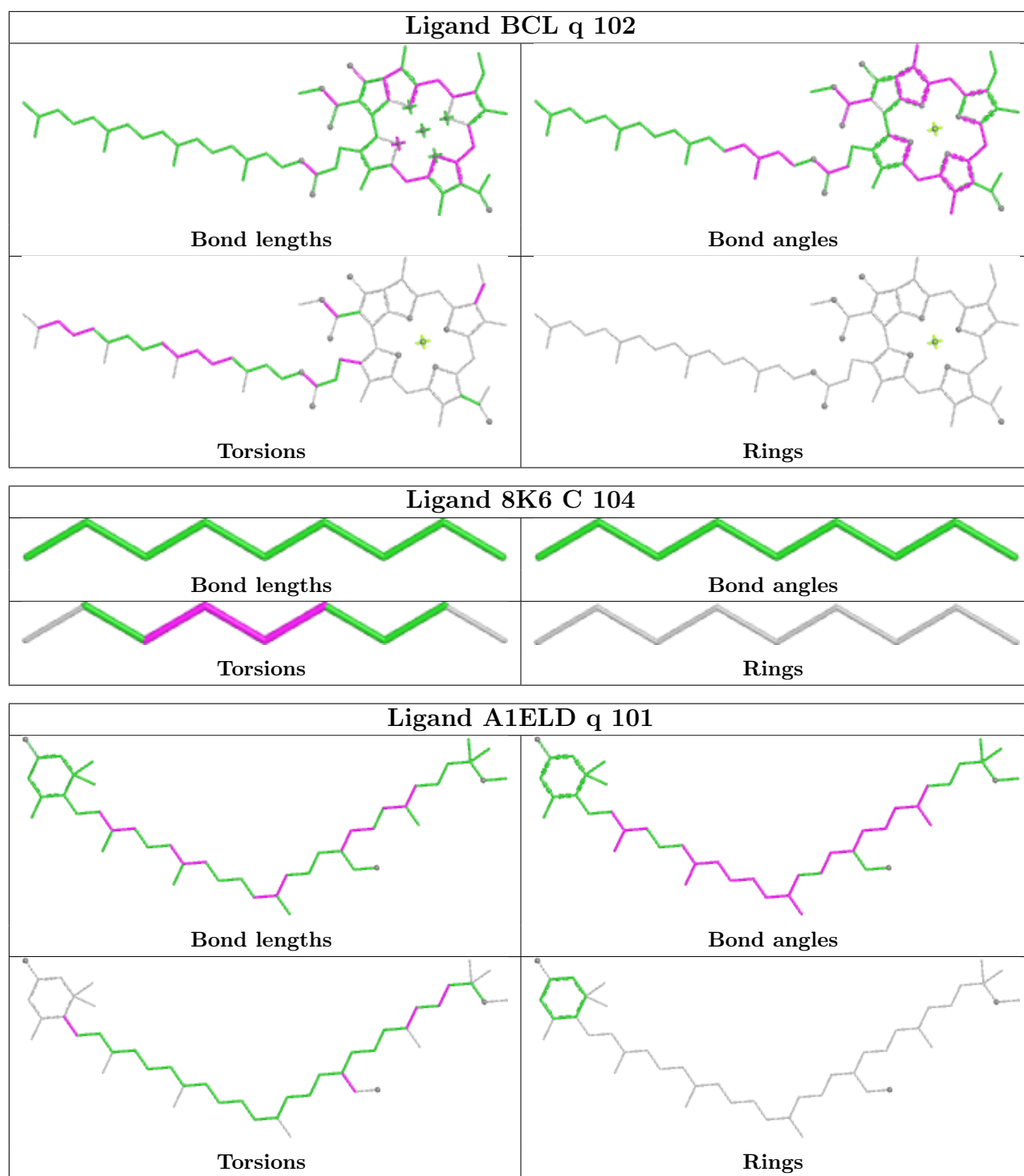
Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	e	102	BCL	2	0
11	F	103	PGV	4	0
7	B	101	BCL	4	0
7	j	102	BCL	2	0
7	C	101	BCL	5	0
7	J	101	BCL	1	0
9	e	101	A1ELD	7	0
7	d	102	BCL	4	0
17	M	407	PEF	1	0
10	L	312	8K6	1	0
11	G	103	PGV	1	0
13	L	305	BPH	1	0
12	L	309	LMT	2	0
7	A	101	BCL	2	0
8	B	102	A1EL2	1	0
7	G	101	BCL	1	0
9	r	101	A1ELD	1	0
7	a	101	BCL	4	0
7	Q	101	BCL	1	0
7	O	101	BCL	2	0
11	M	408	PGV	3	0
12	N	103	LMT	1	0
10	L	311	8K6	2	0
7	K	101	BCL	1	0
9	o	101	A1ELD	1	0
7	P	101	BCL	3	0
7	F	101	BCL	3	0
7	r	104	BCL	2	0
9	B	103	A1ELD	1	0
7	n	101	BCL	5	0
9	d	101	A1ELD	1	0
14	L	304	UQ8	6	0
7	I	101	BCL	3	0
10	Q	104	8K6	4	0
7	g	102	BCL	2	0
9	R	102	A1ELD	23	0

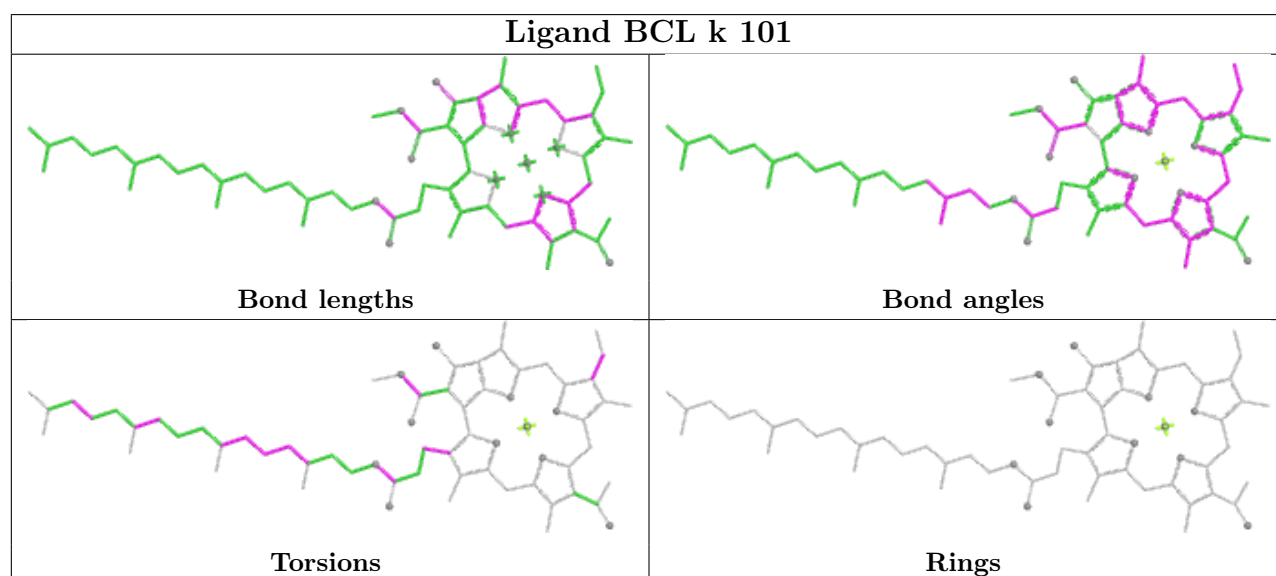
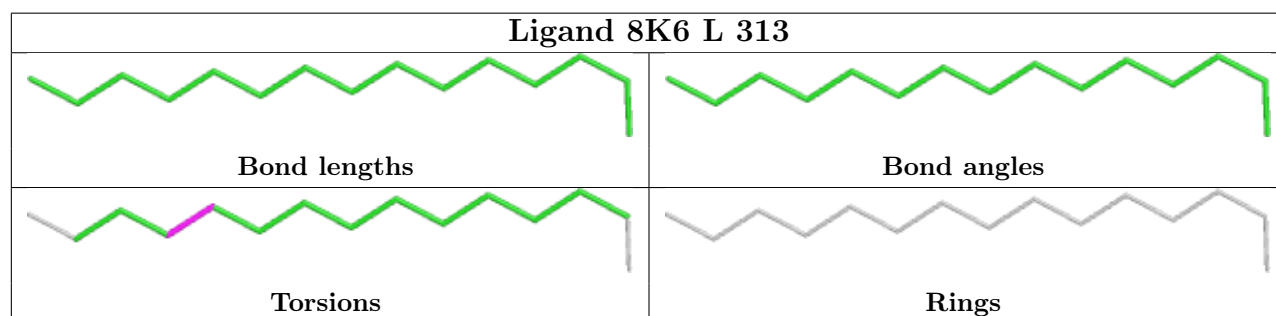
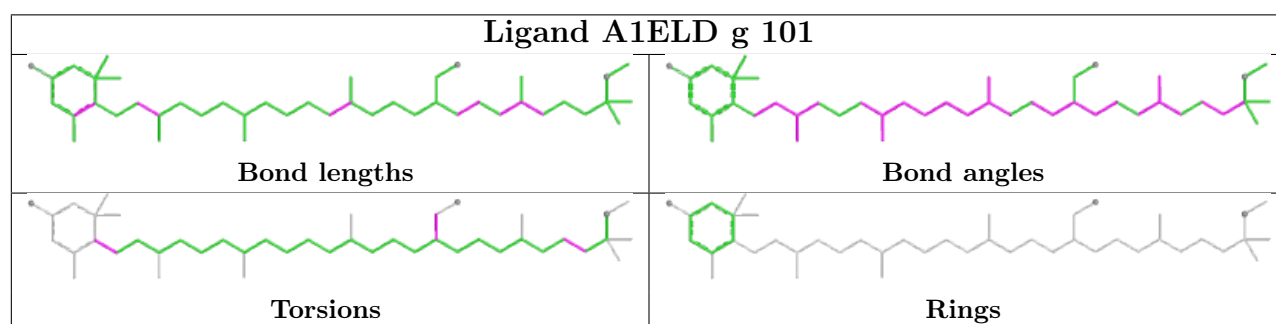
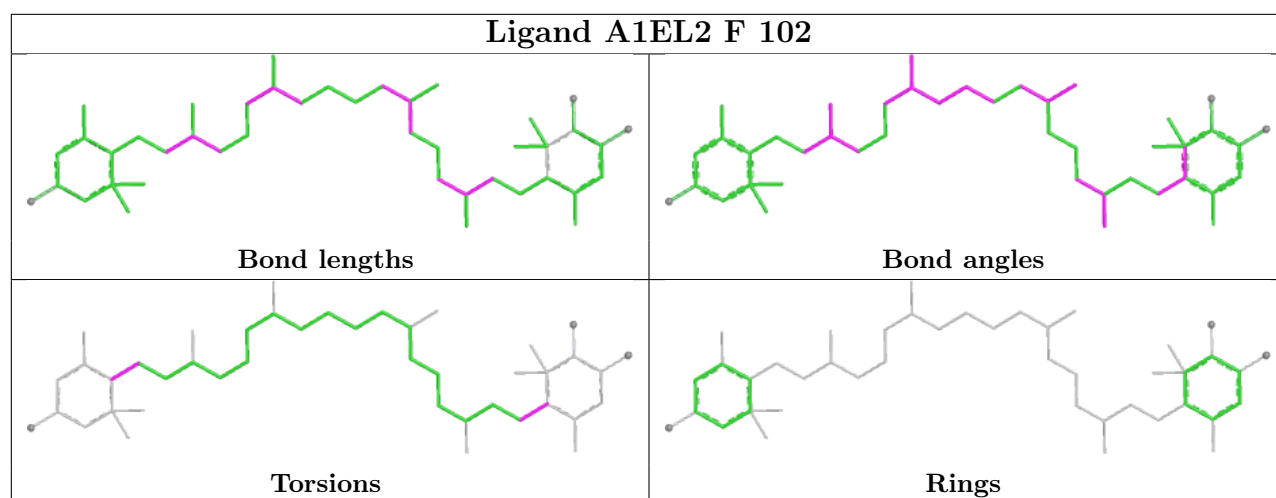
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be

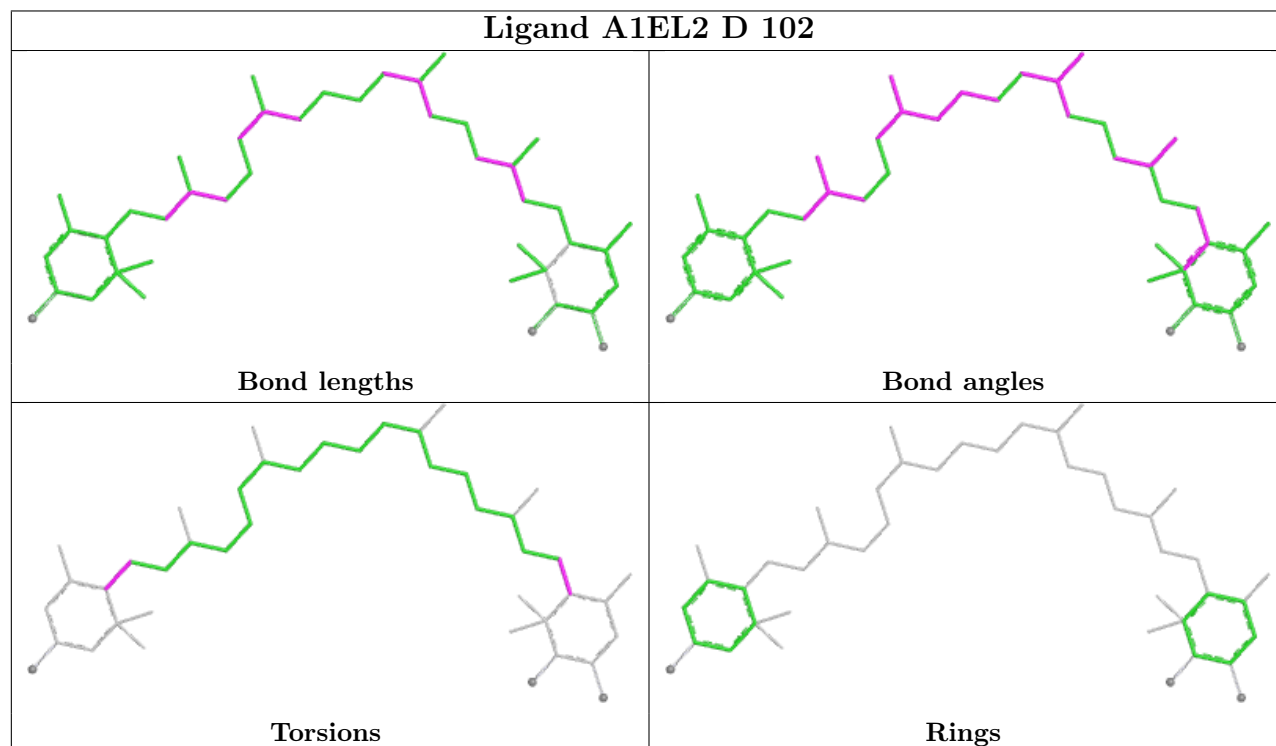
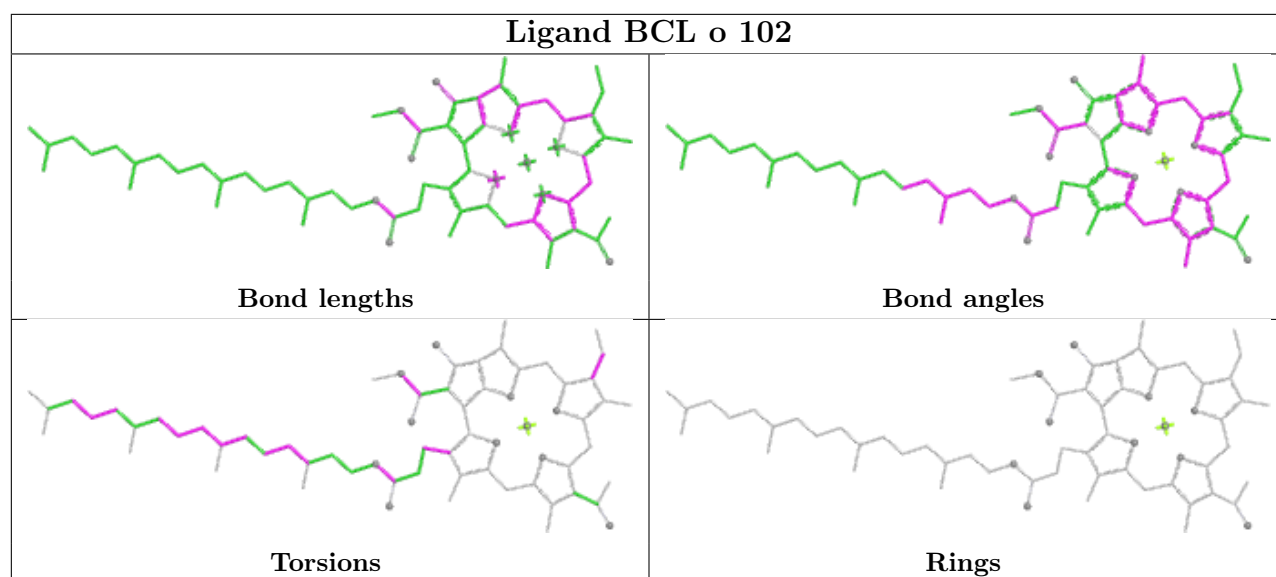
highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

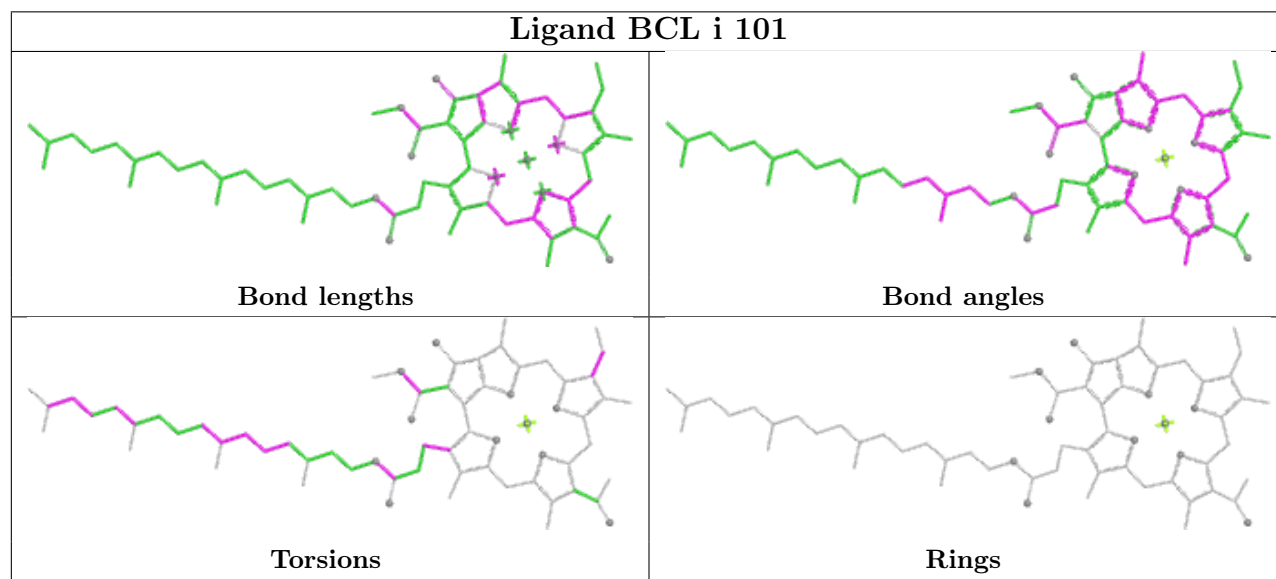
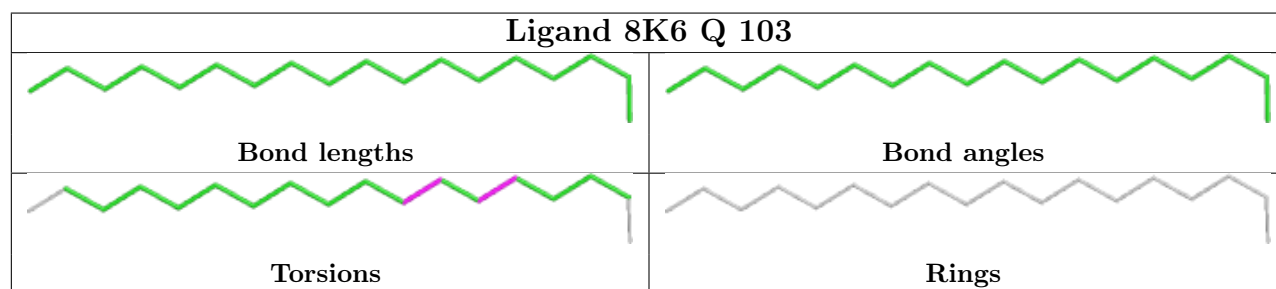
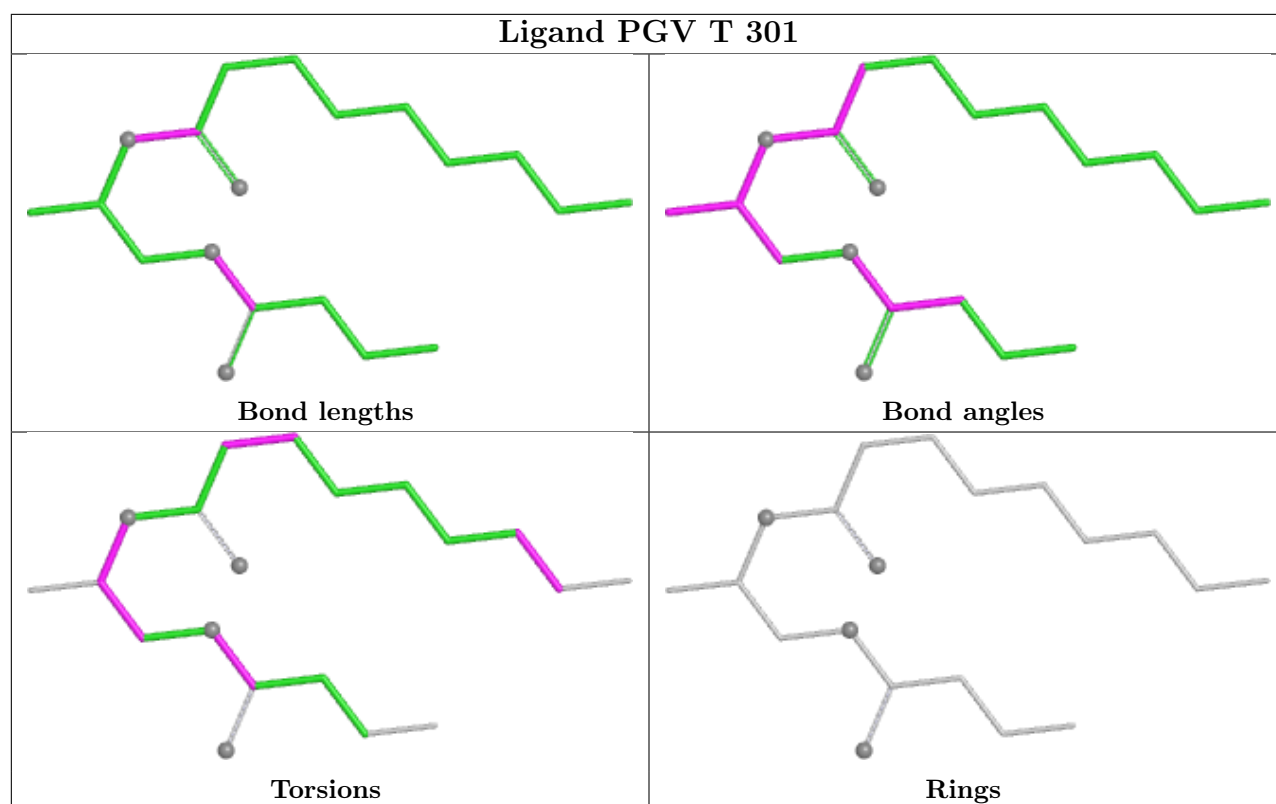


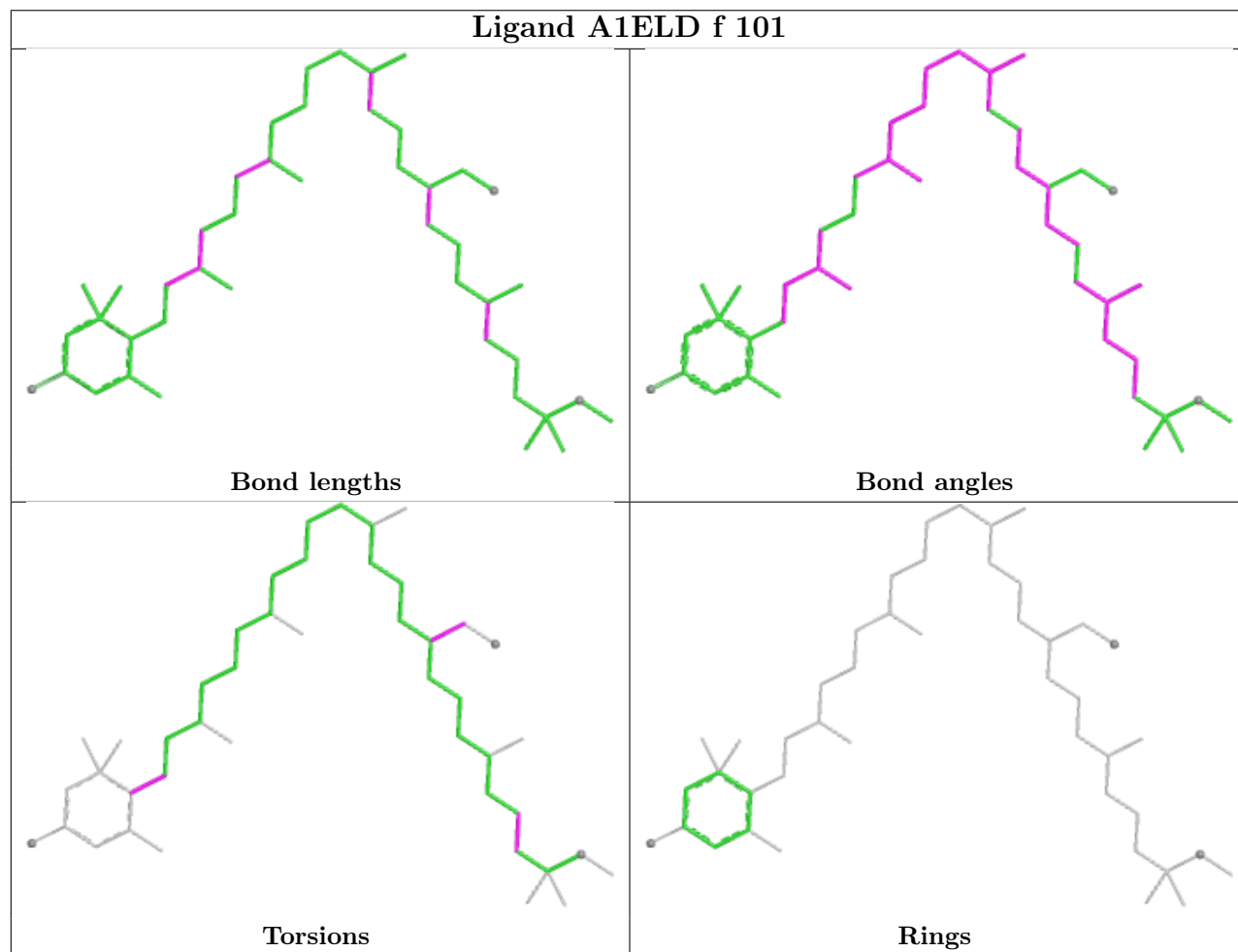
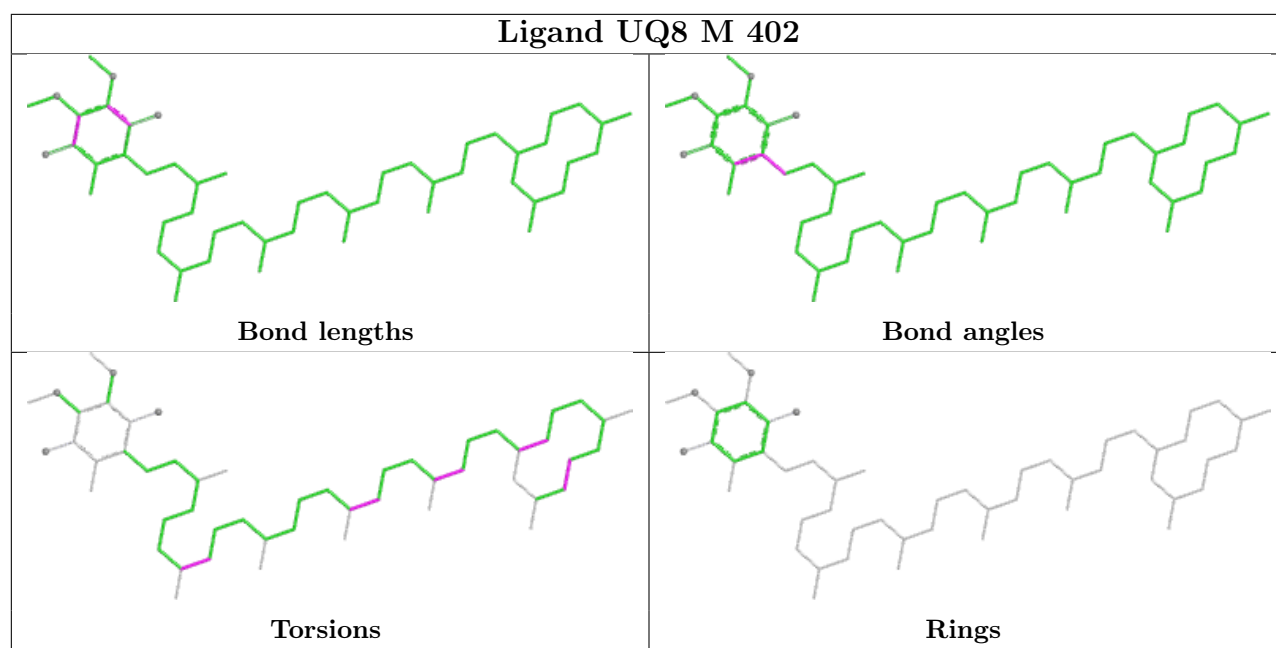


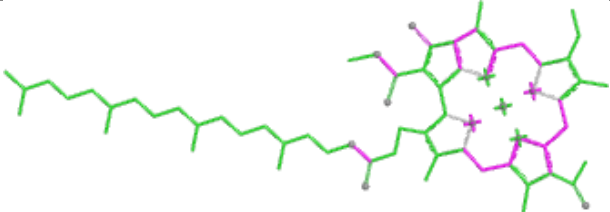
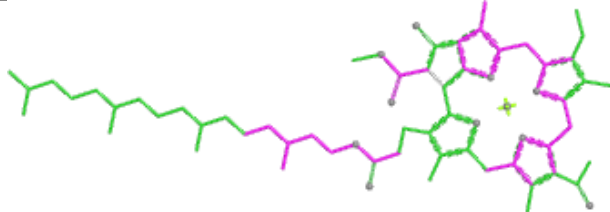
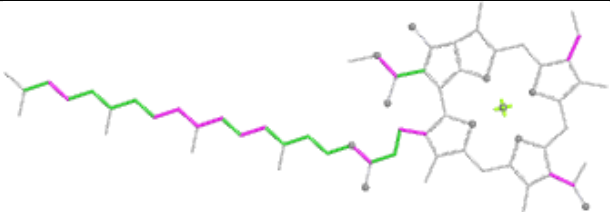
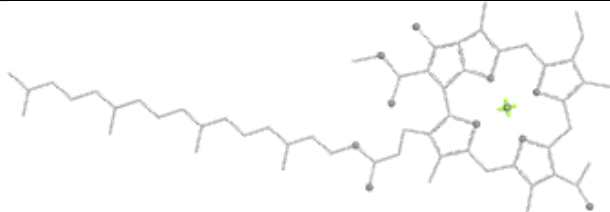
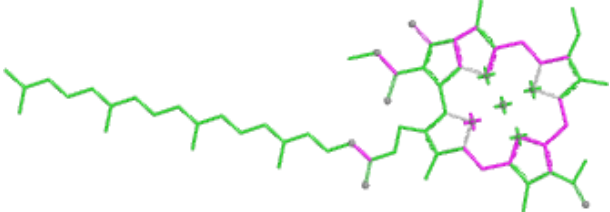
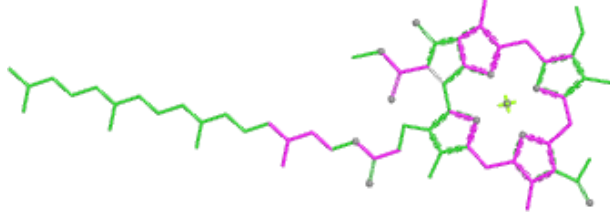
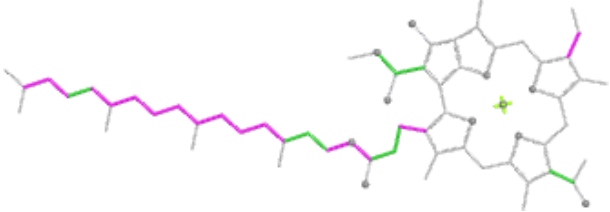
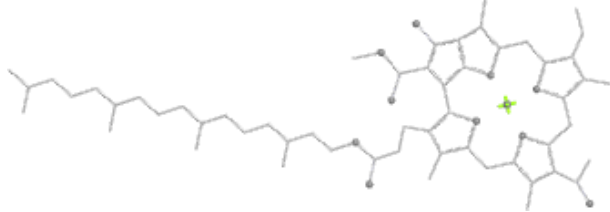


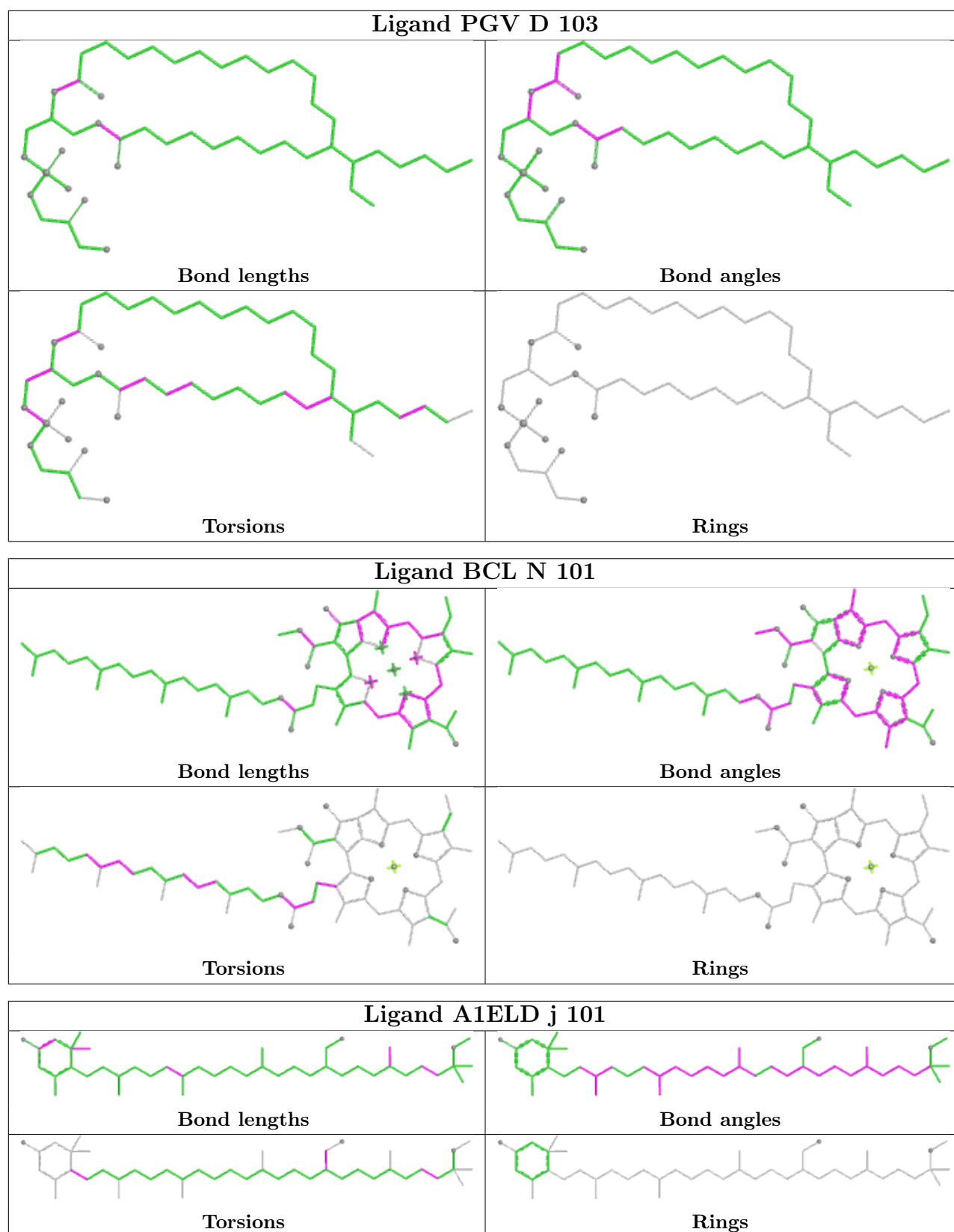


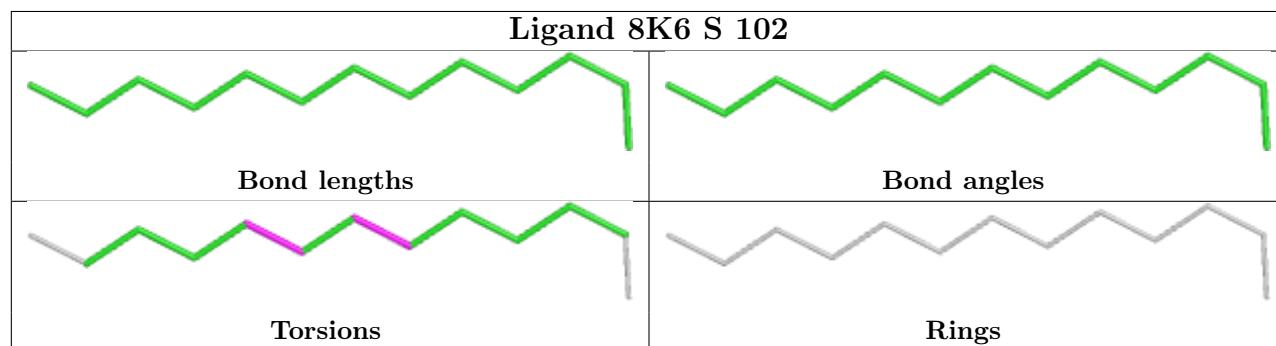
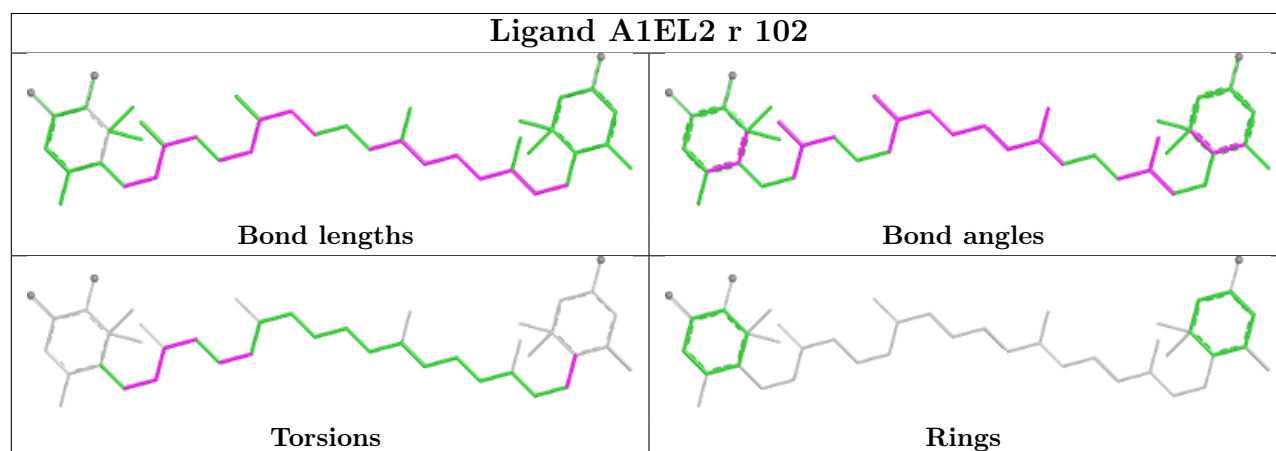
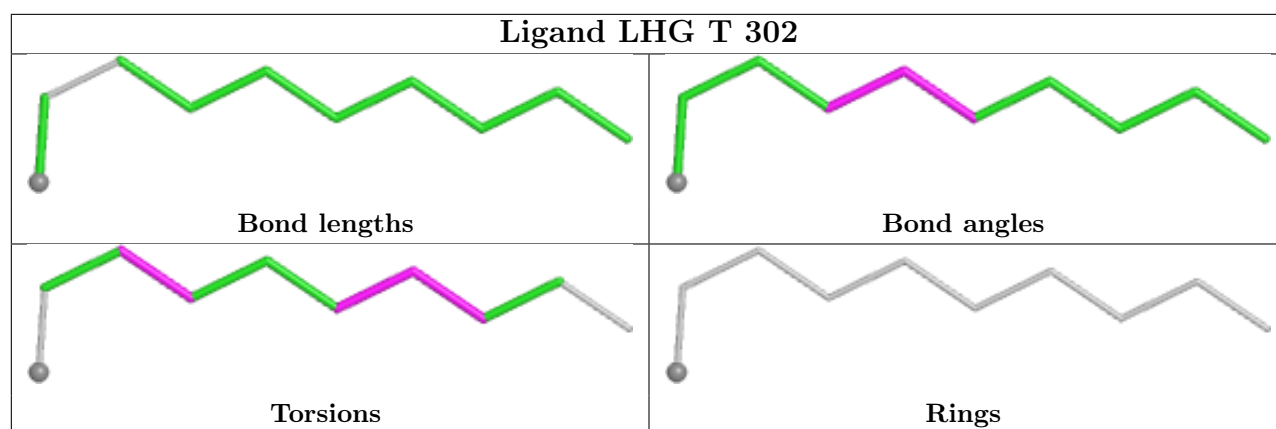


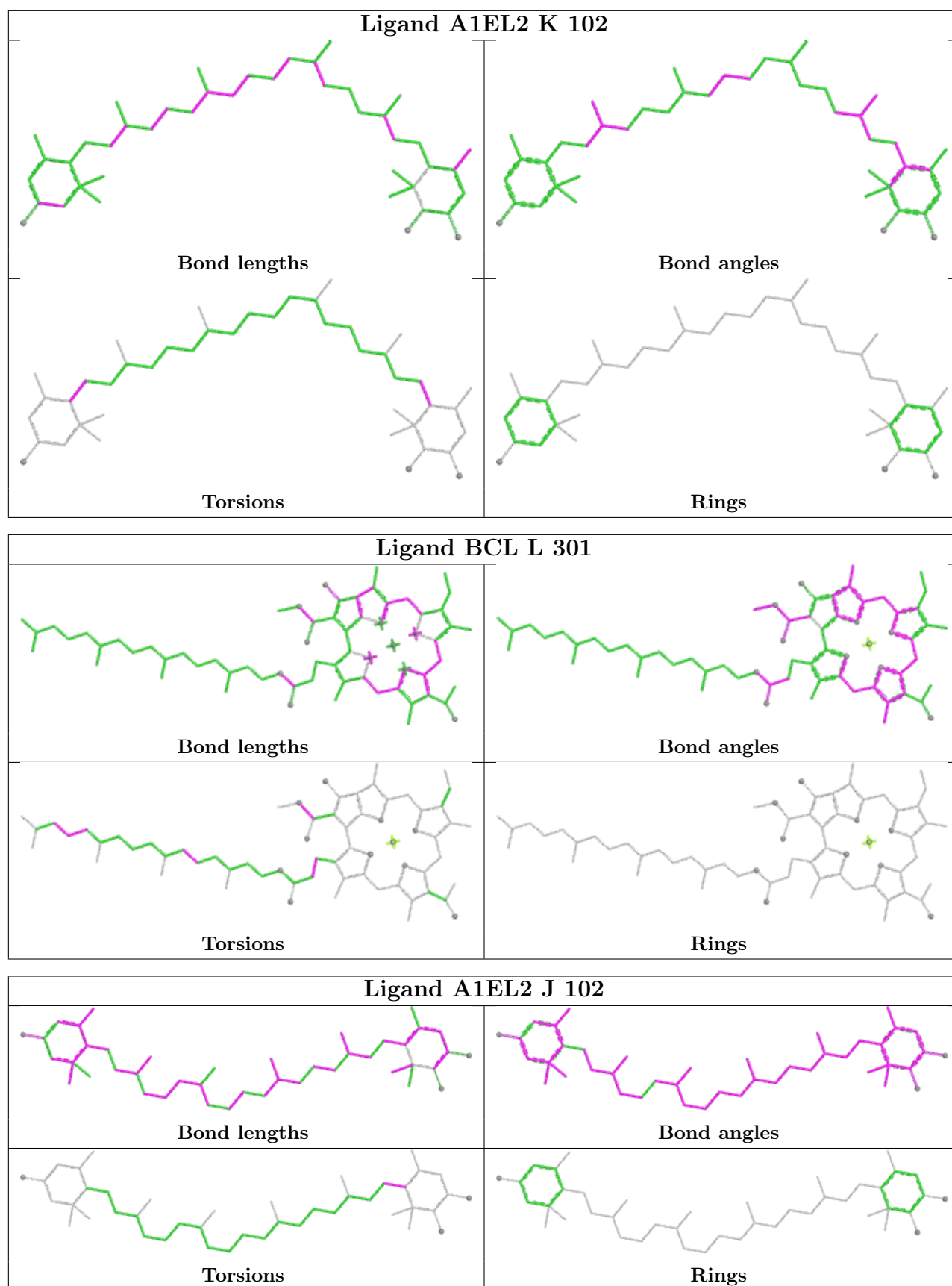




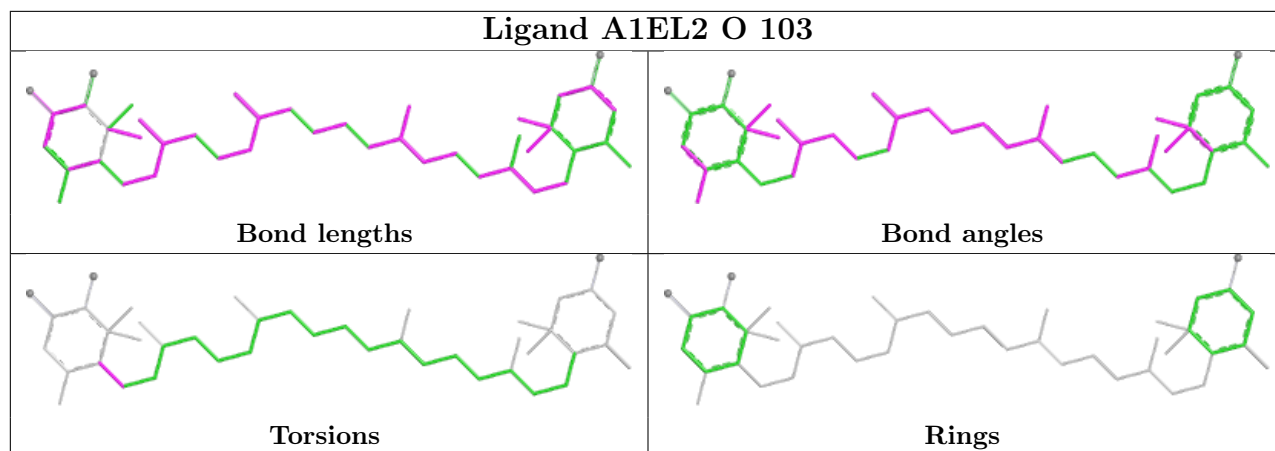
Ligand BCL L 302	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand 8K6 H 301	
 Bond lengths	 Bond angles
 Torsions	 Rings
Ligand BCL p 101	
 Bond lengths	 Bond angles
 Torsions	 Rings



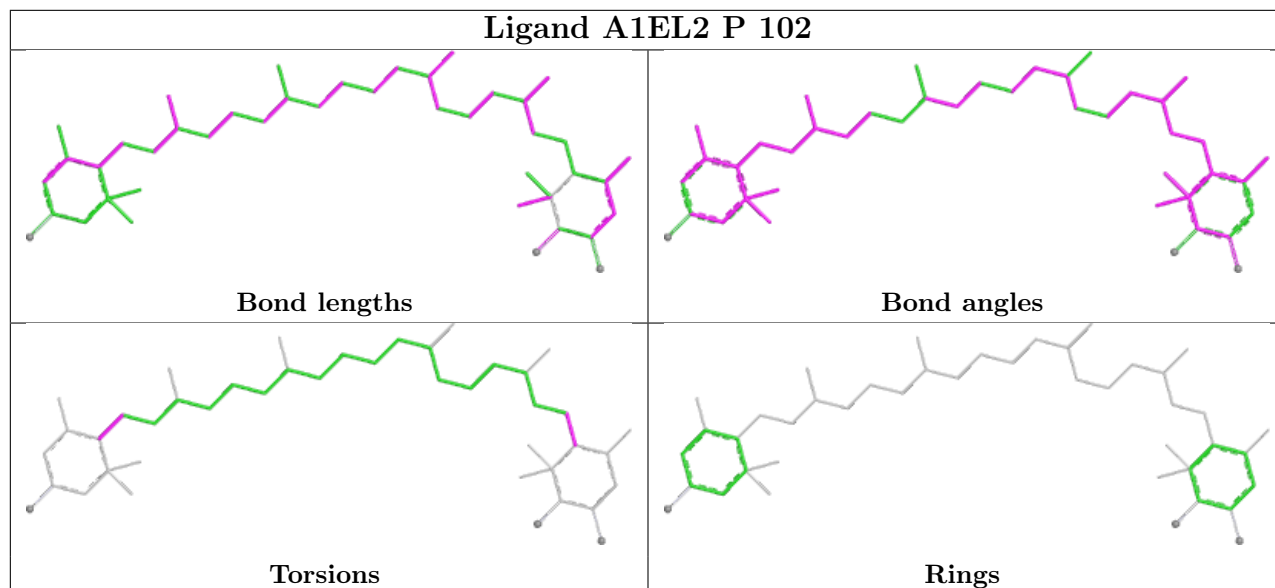




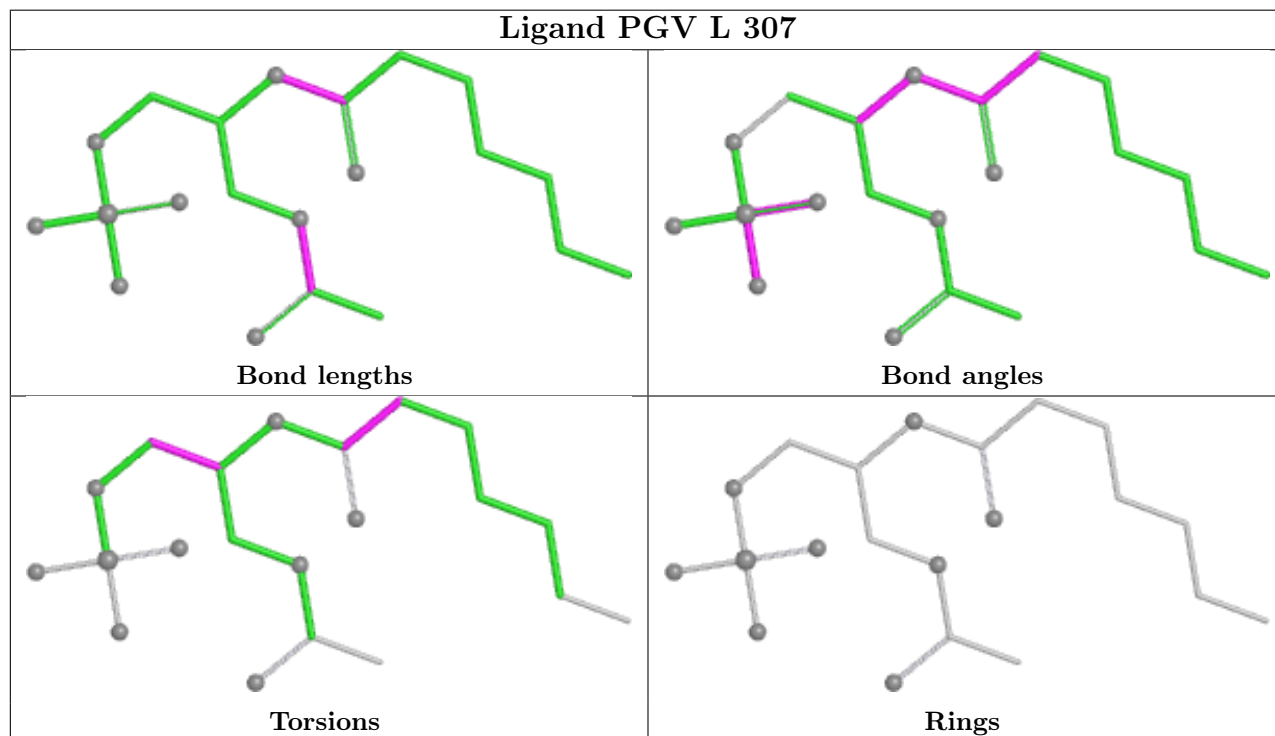
Ligand A1EL2 O 103

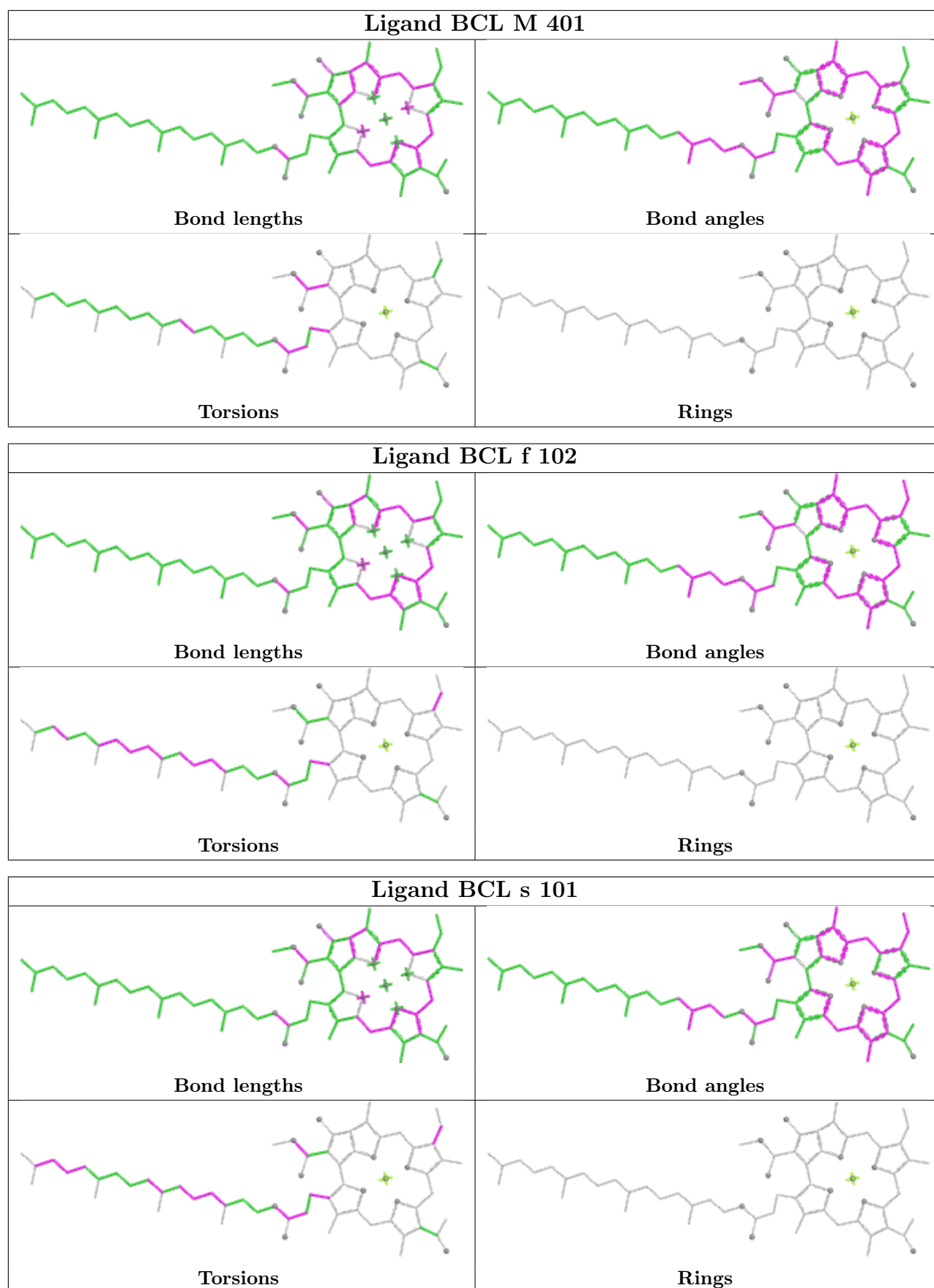


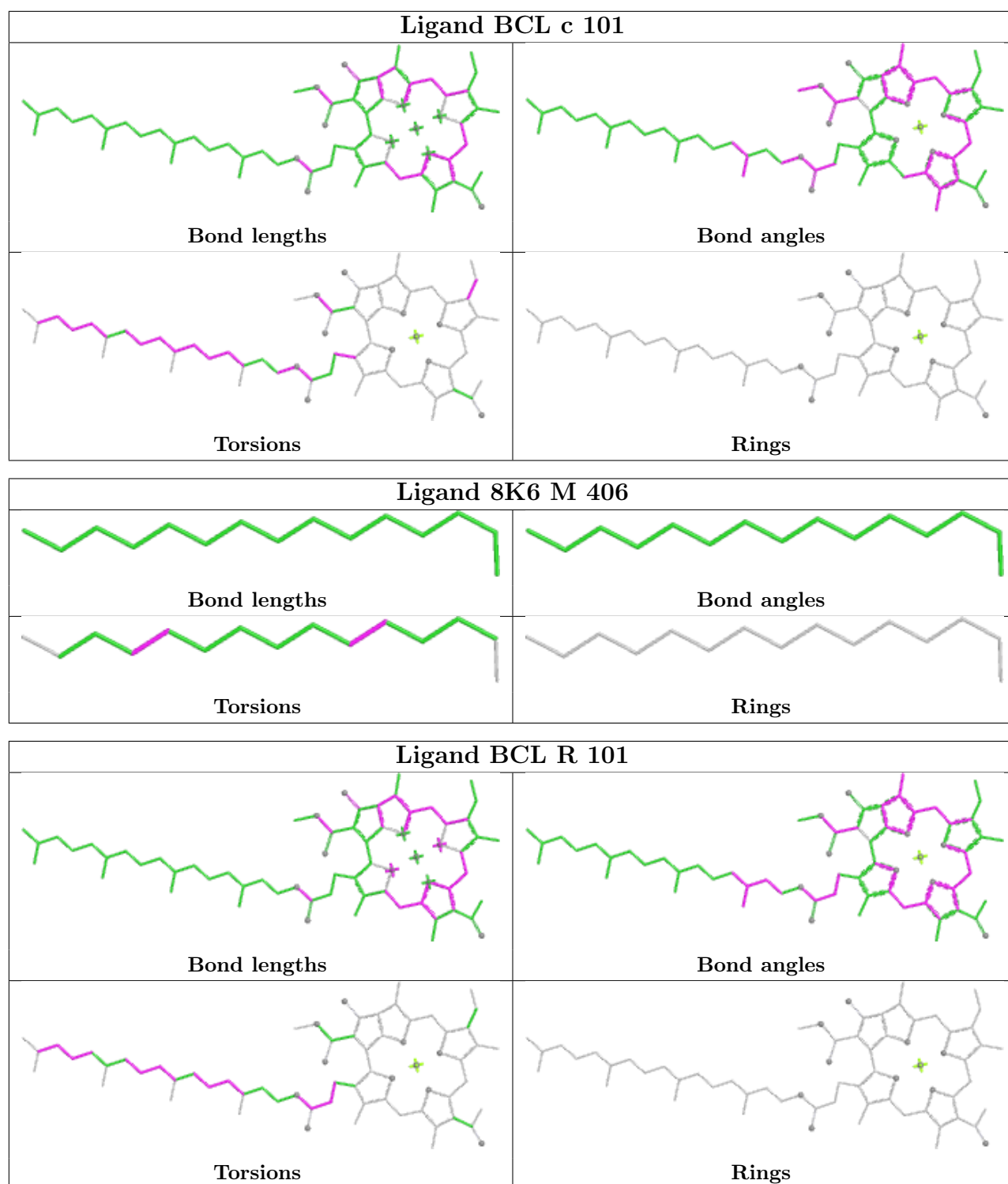
Ligand A1EL2 P 102



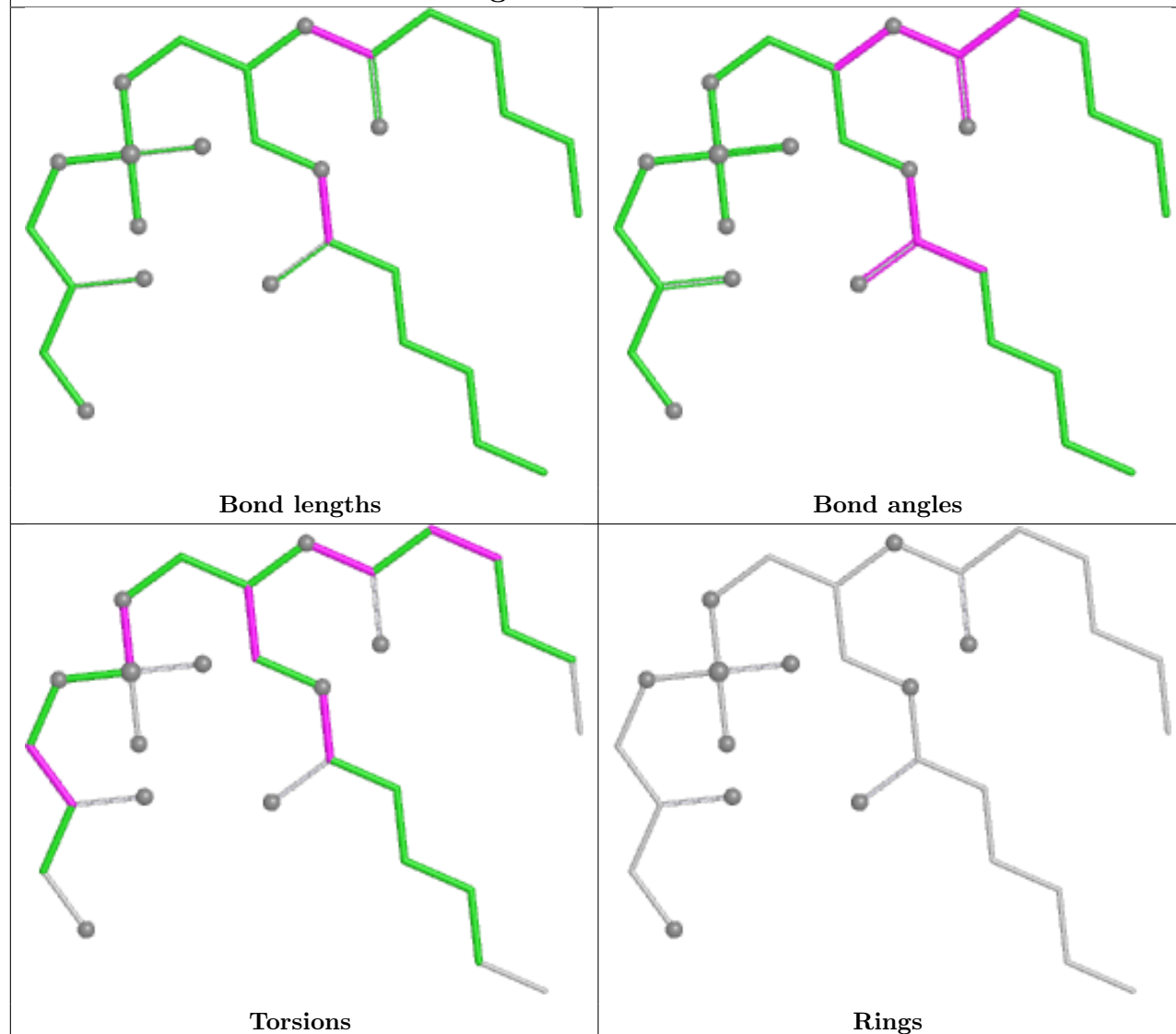
Ligand PGV L 307



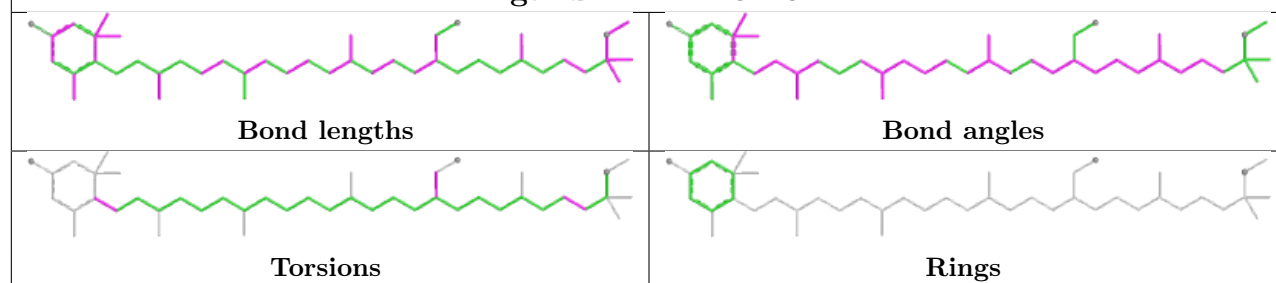


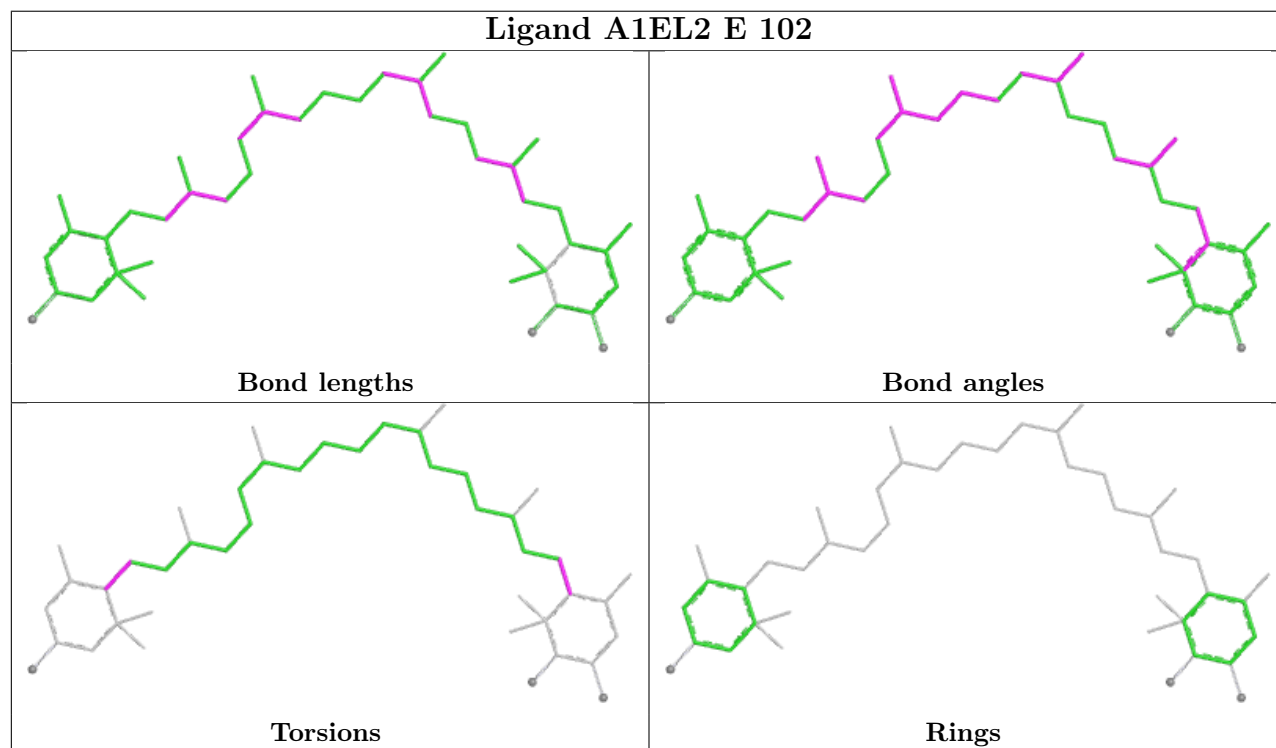
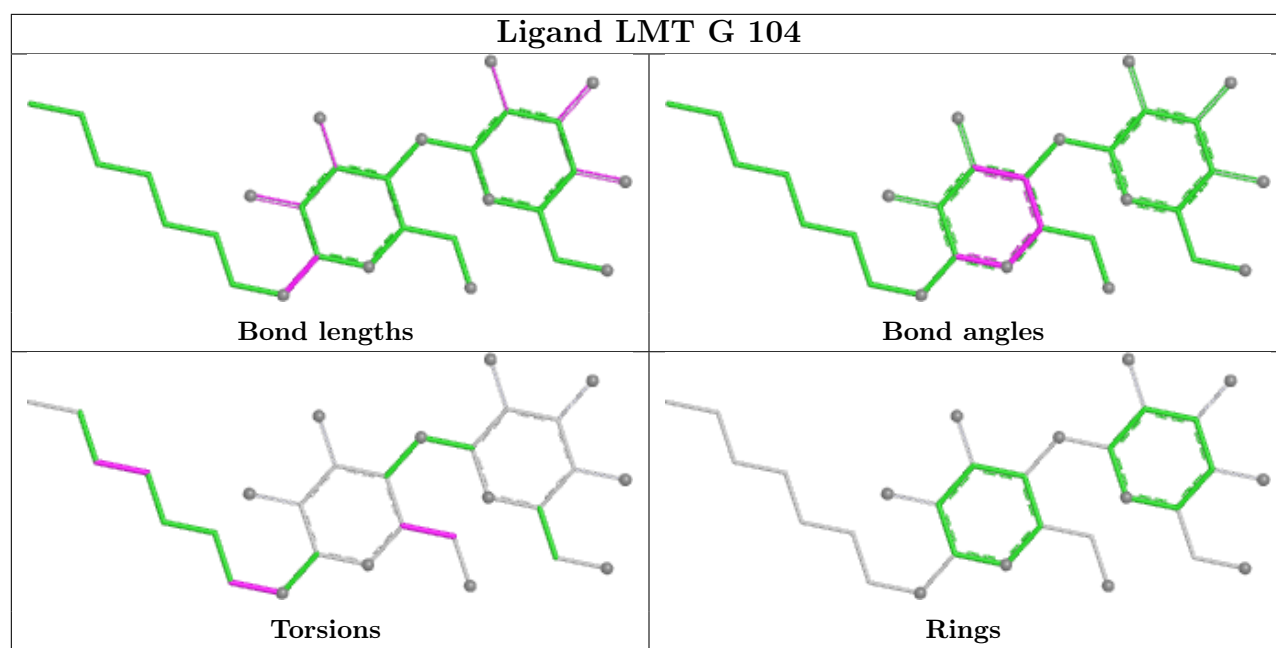


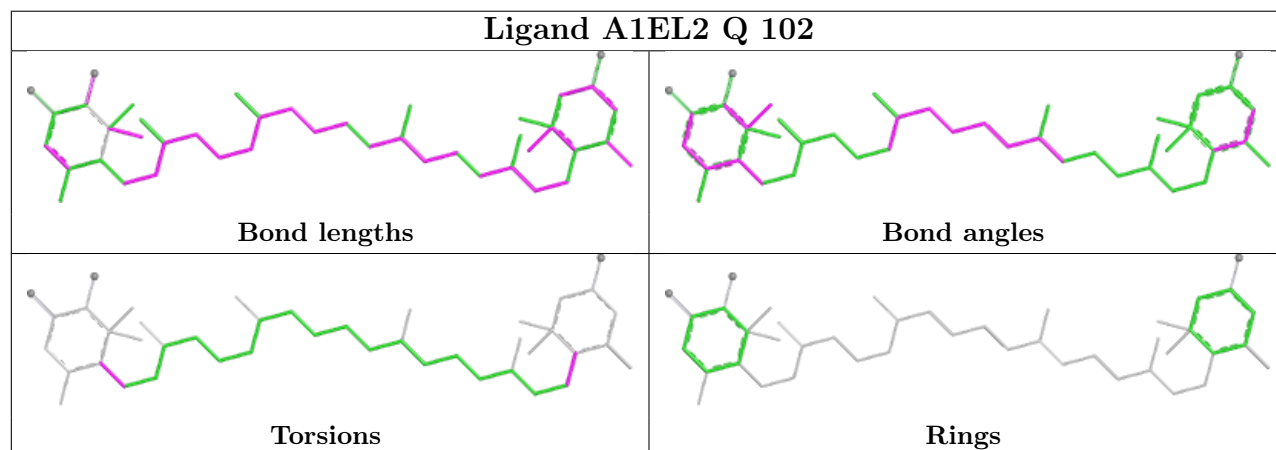
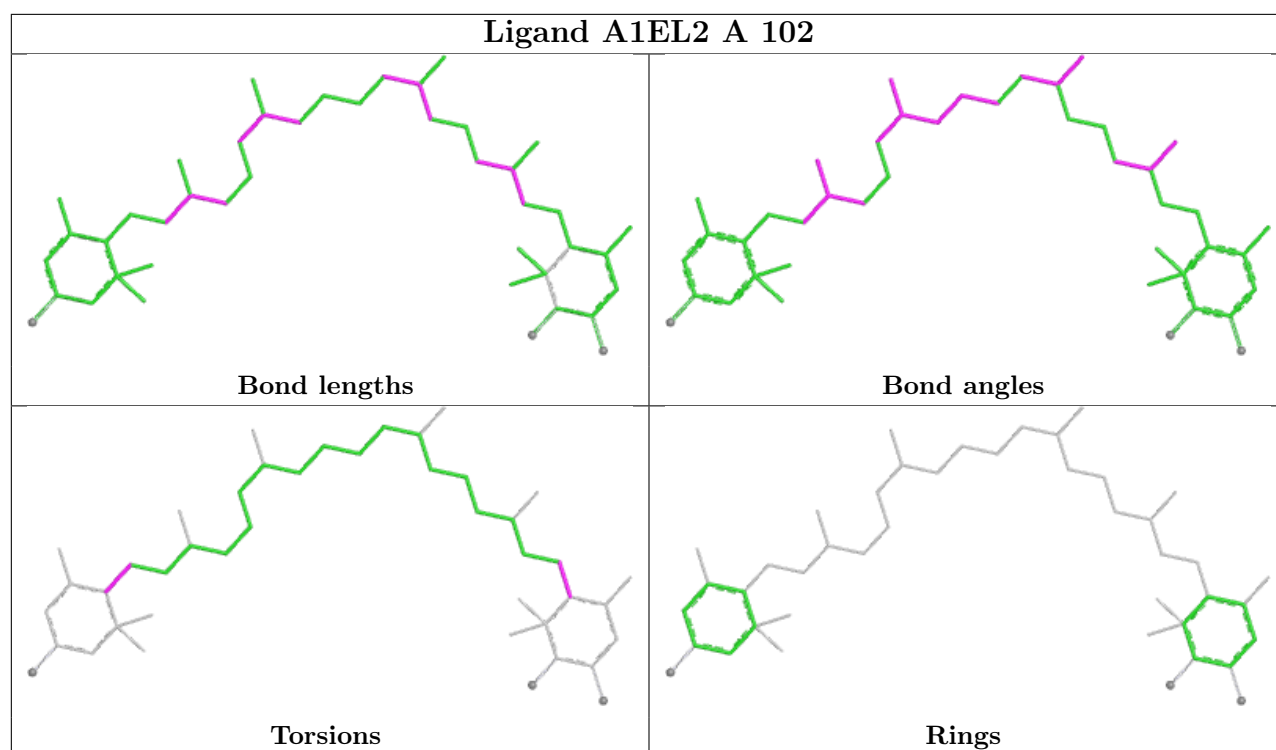
Ligand PGV L 308

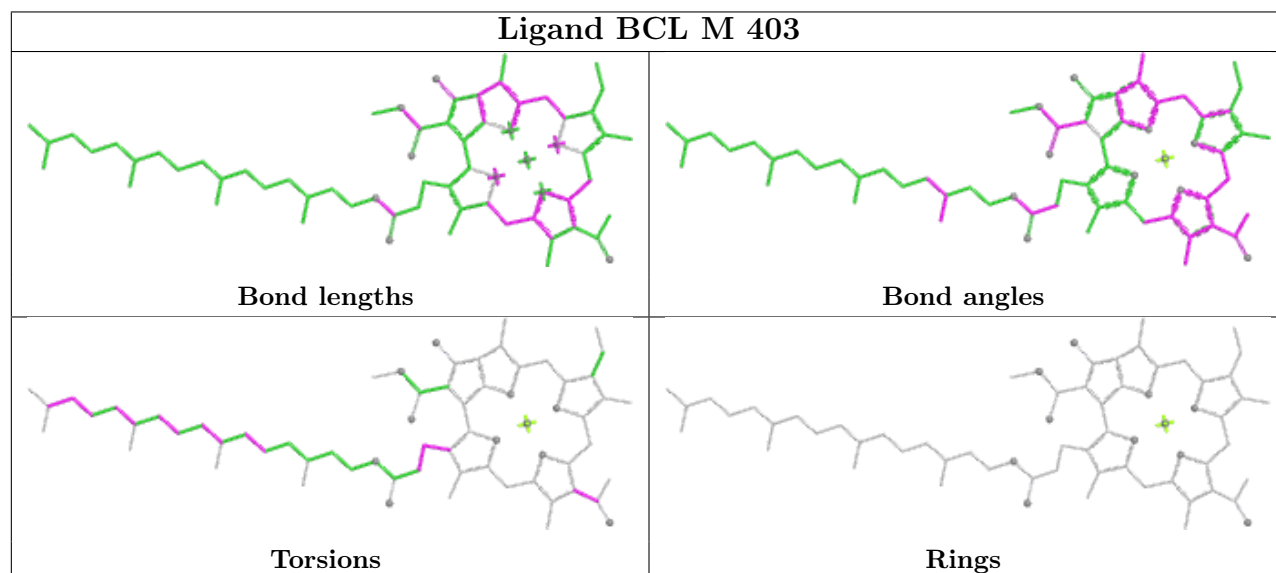
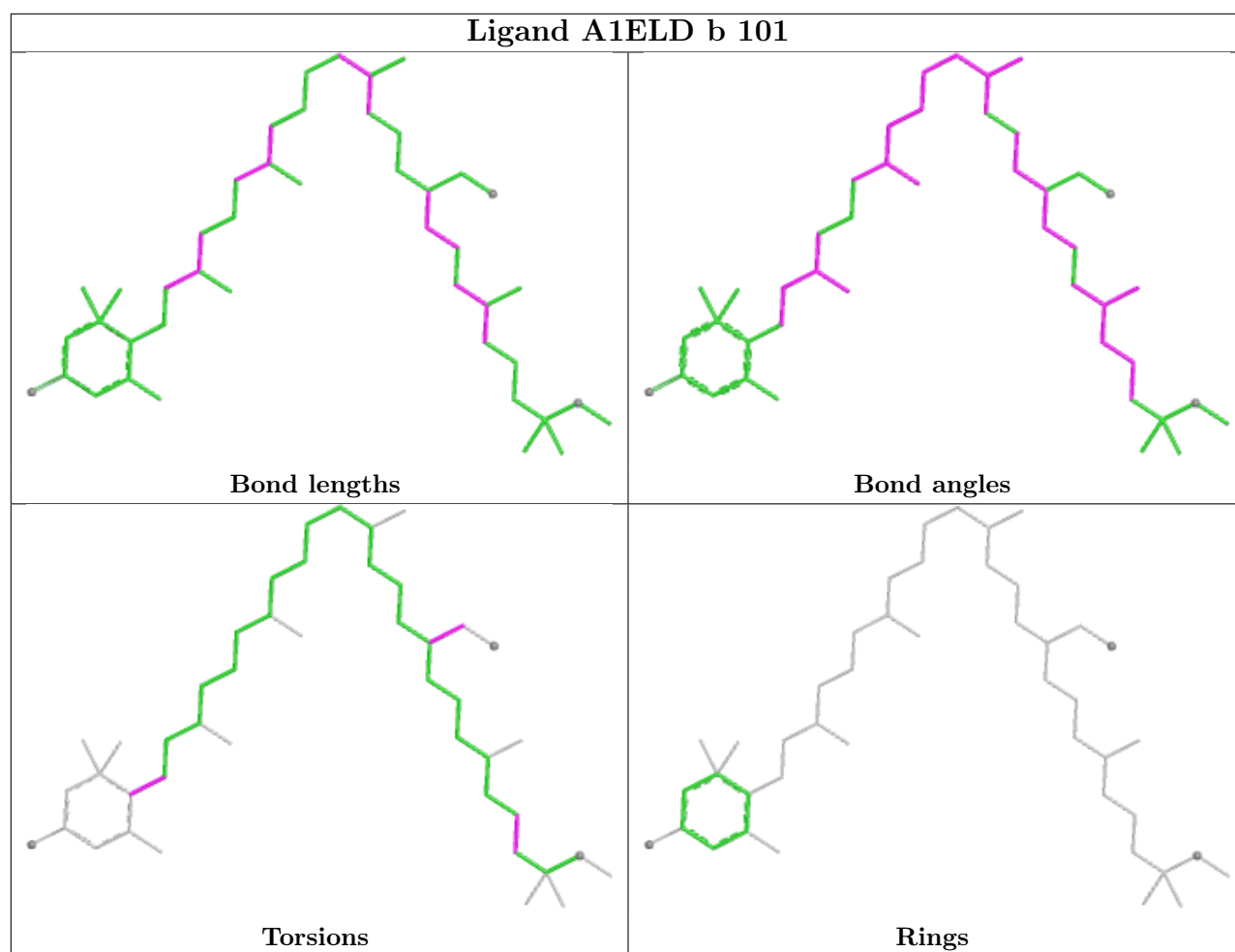


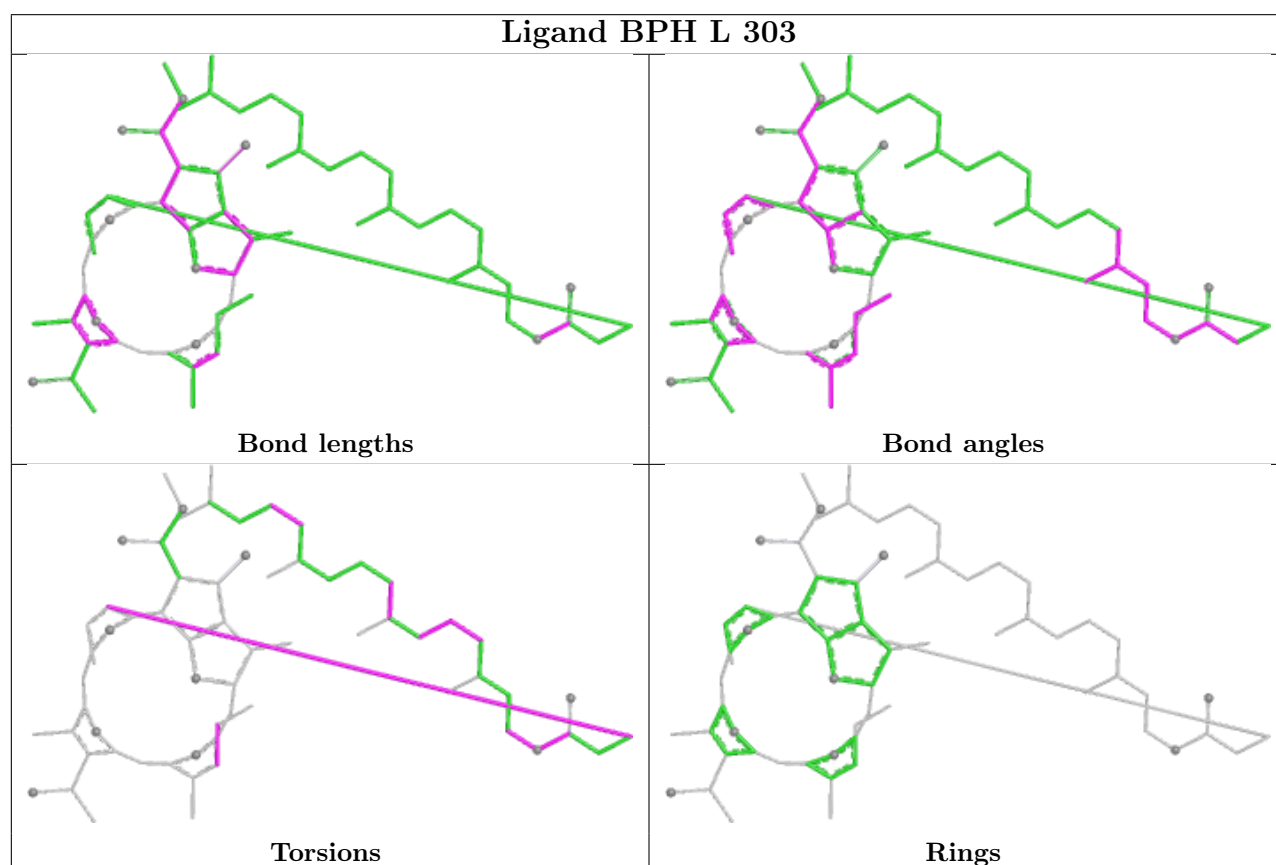
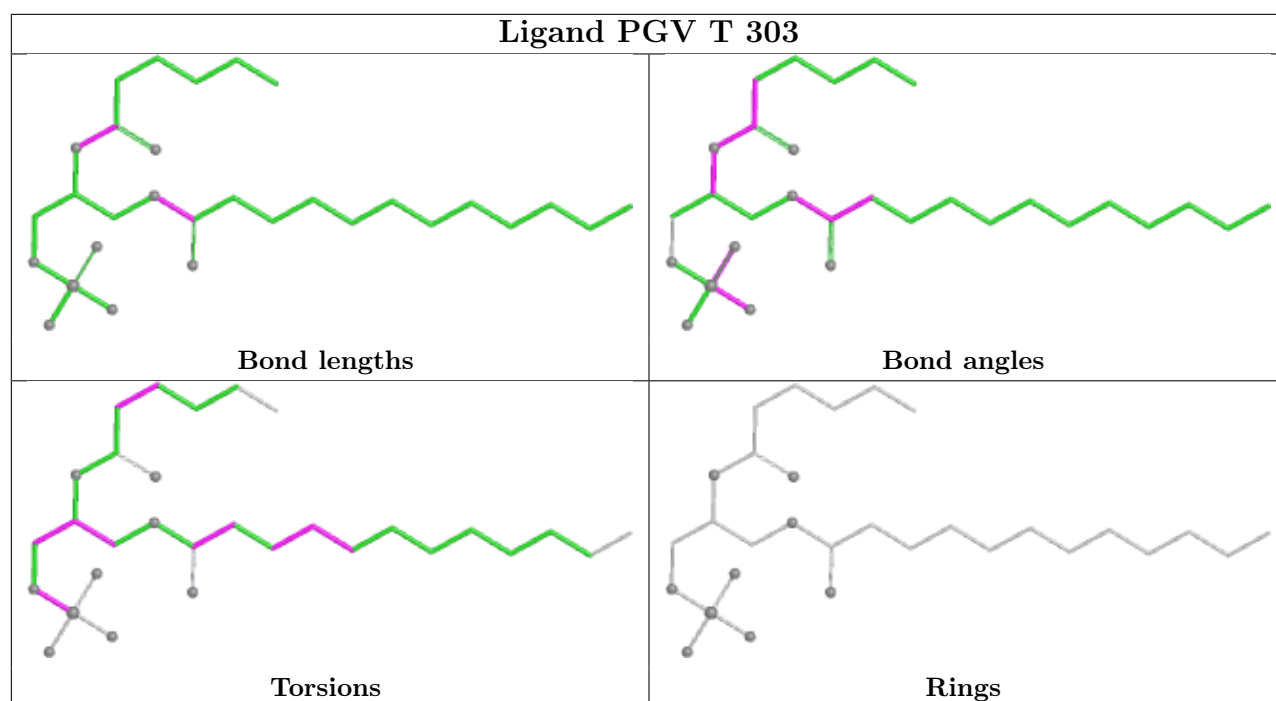
Ligand A1ELD O 102

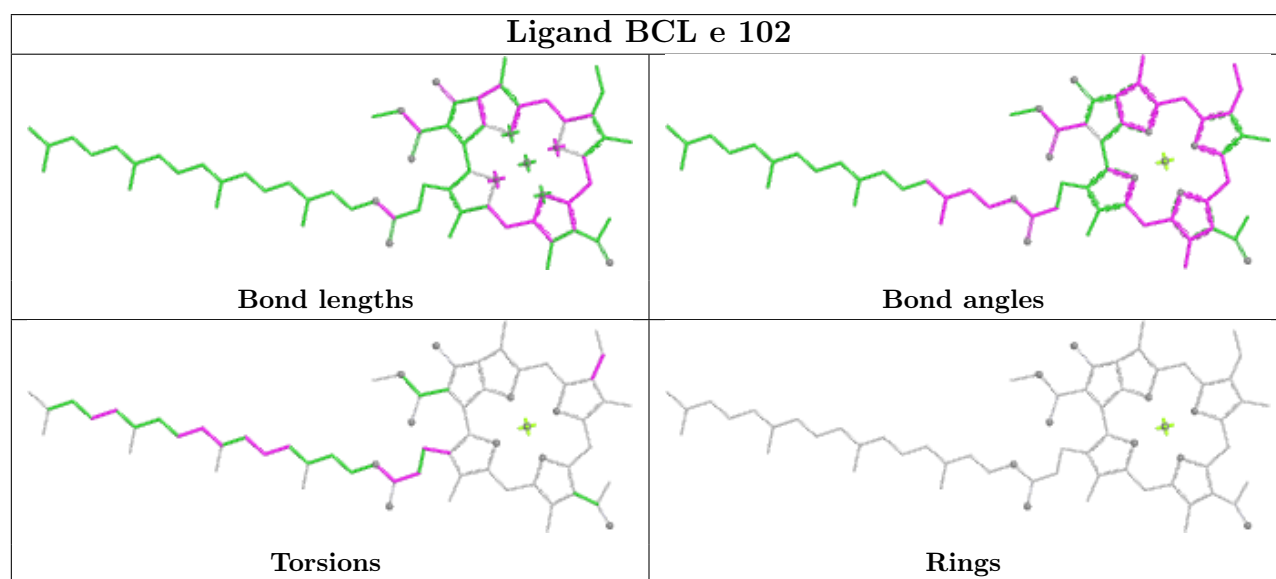
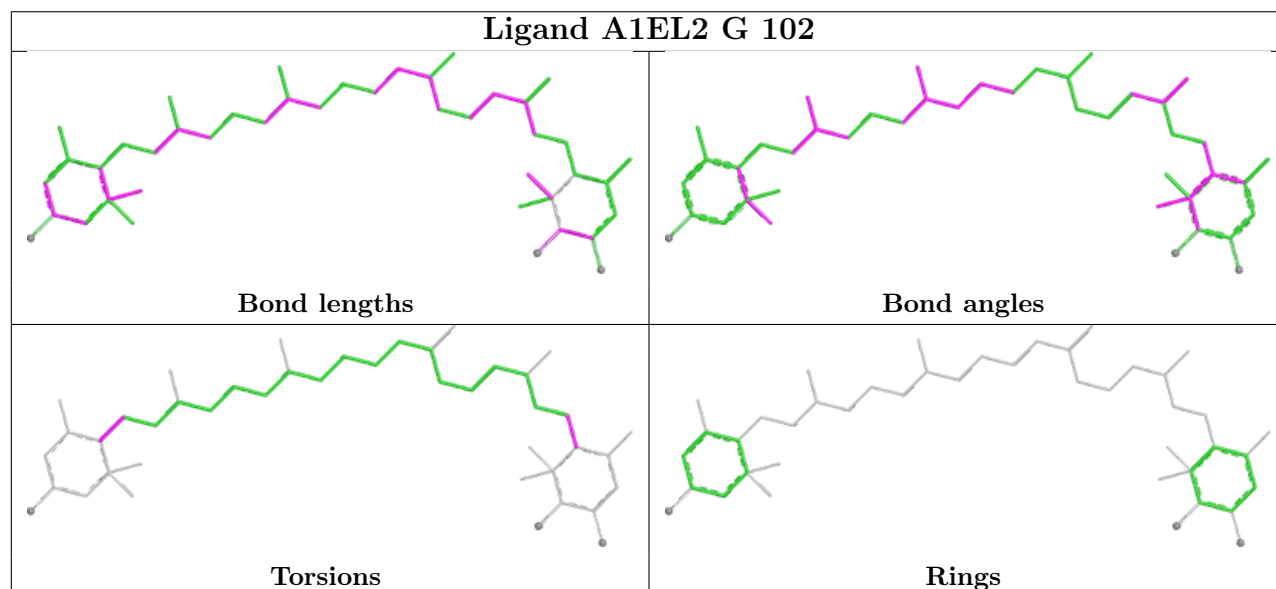
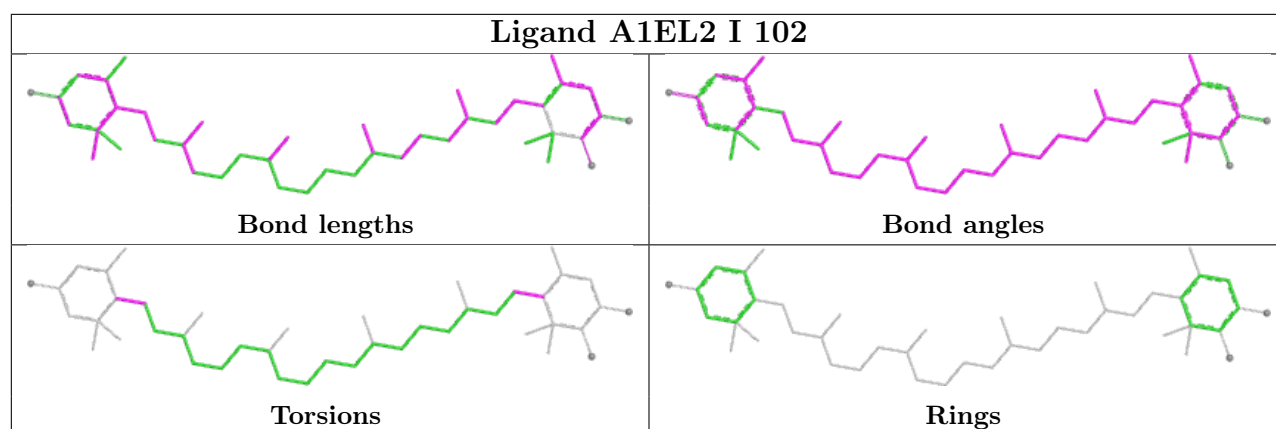


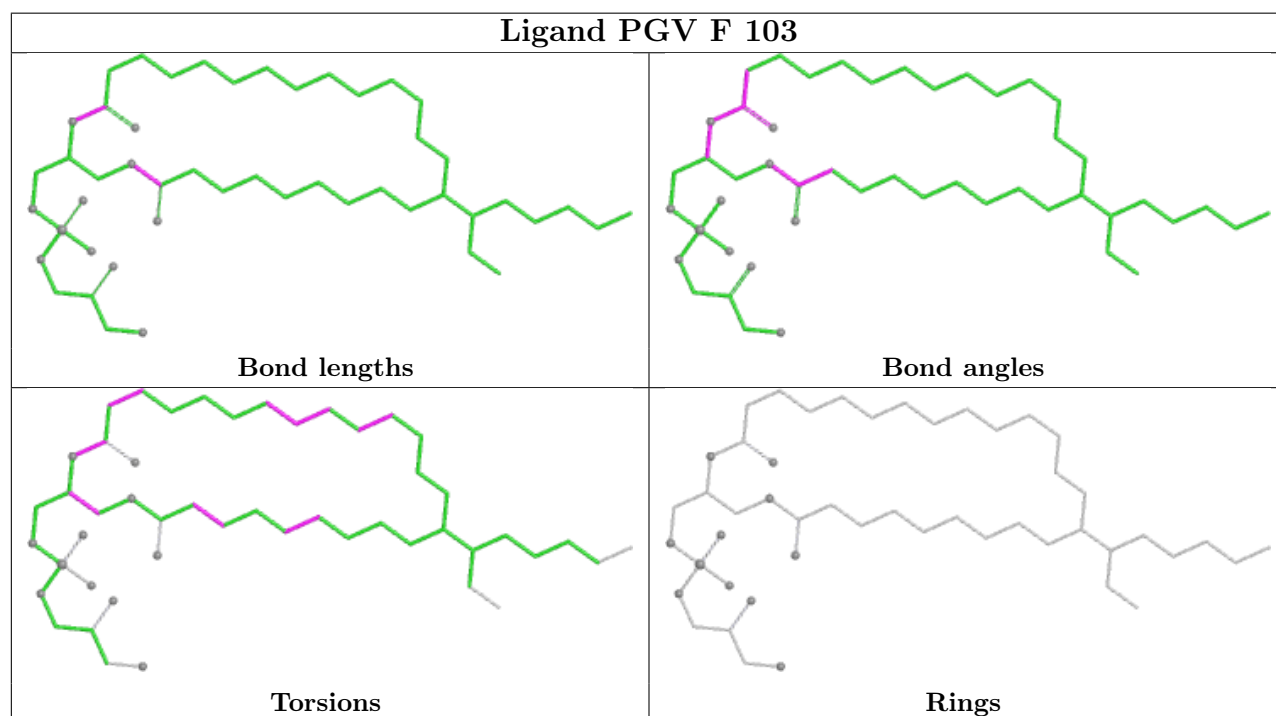
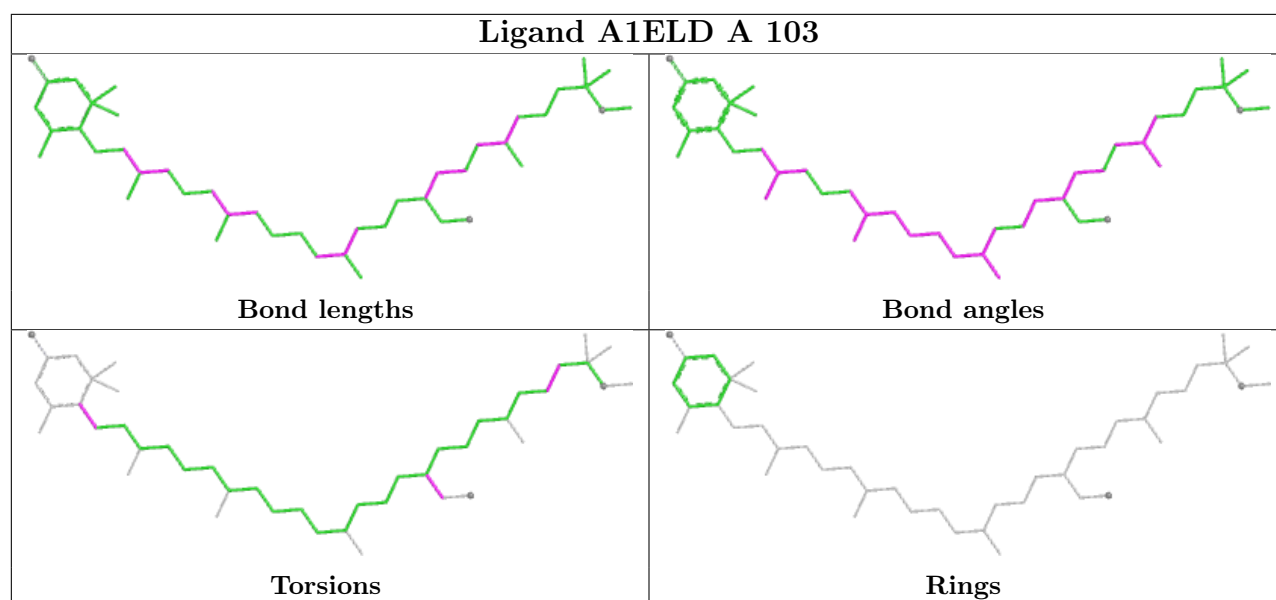


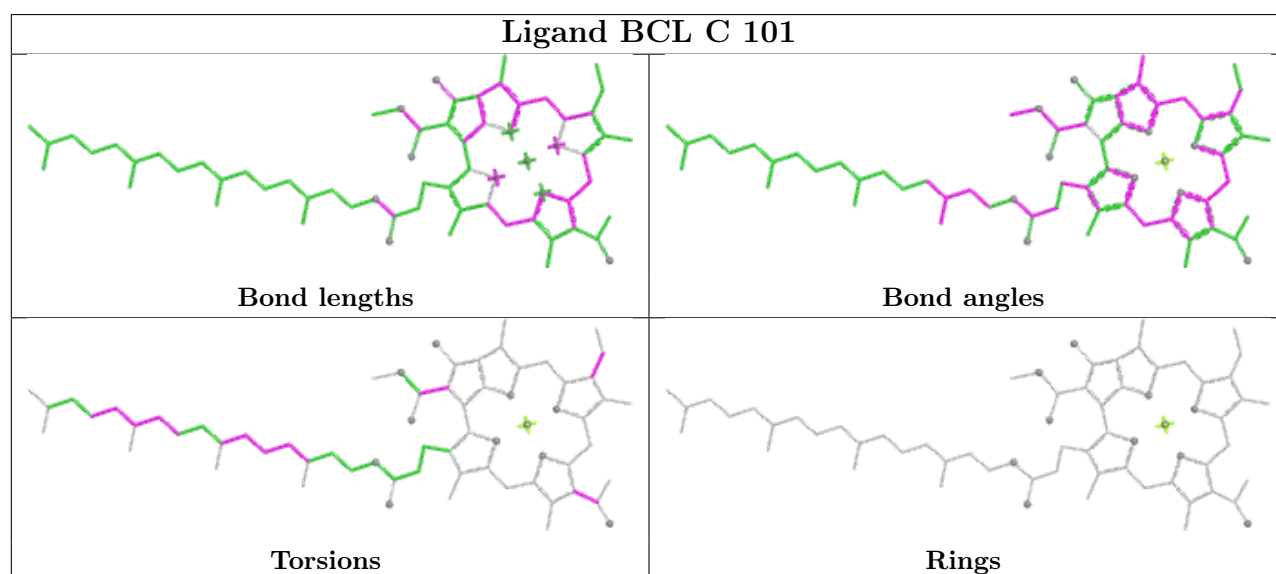
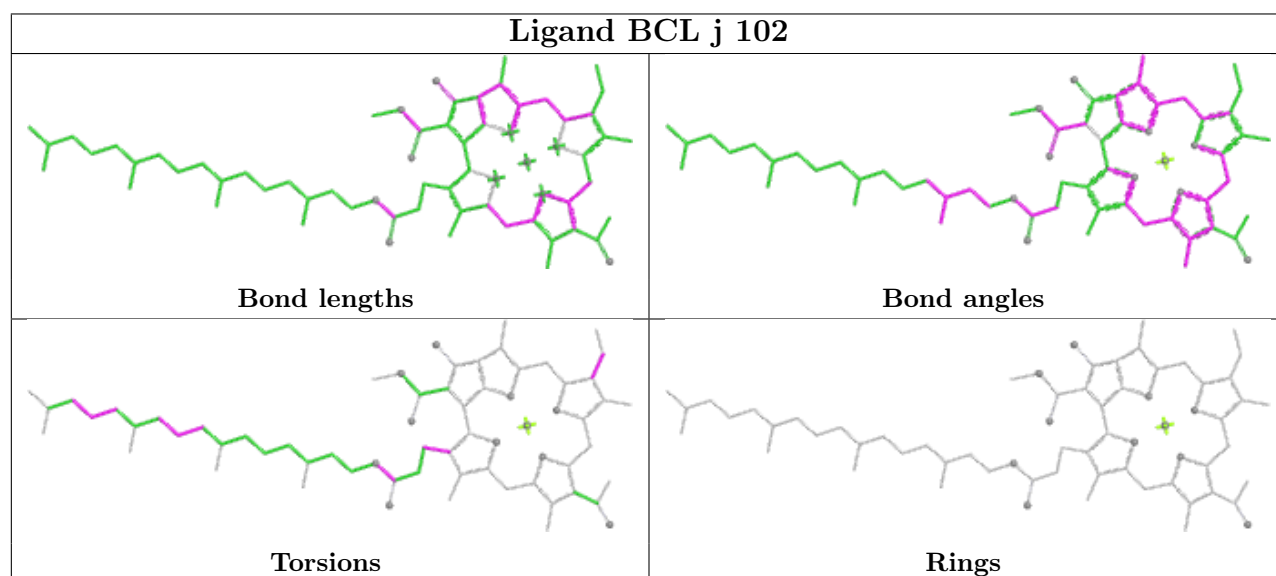
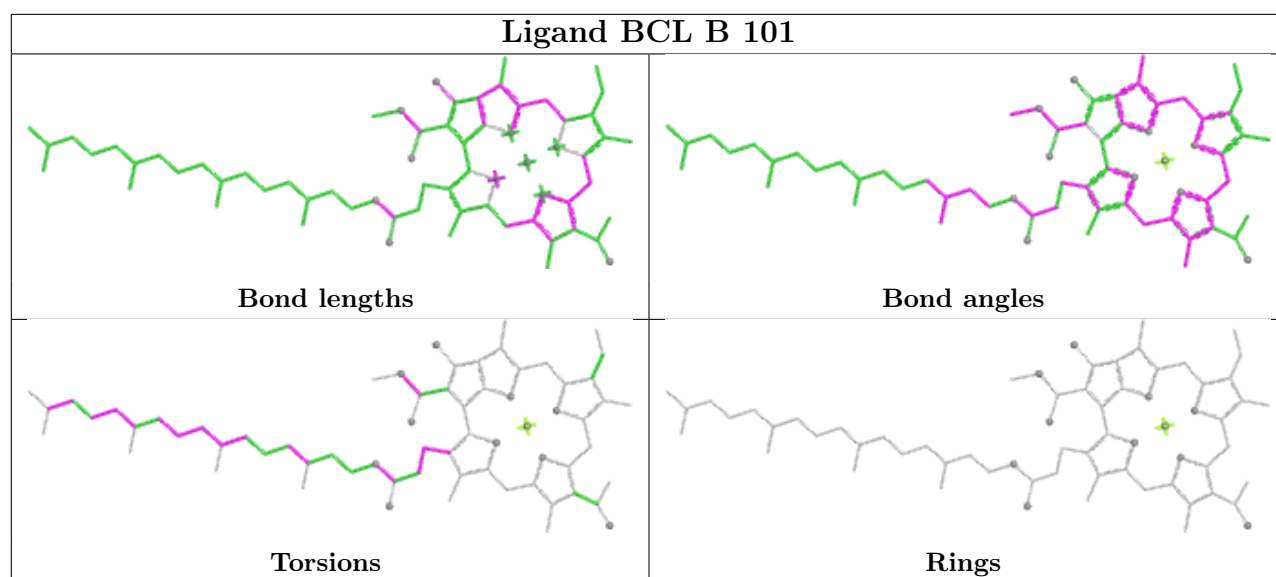


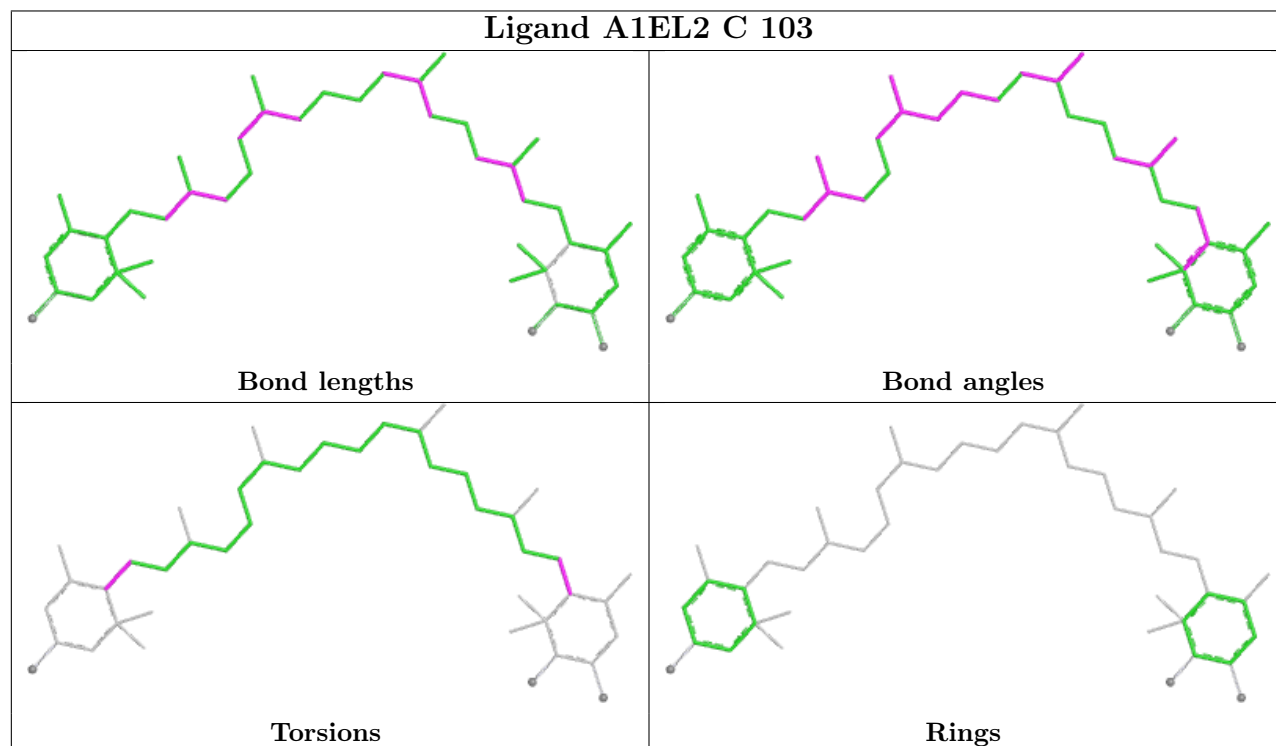
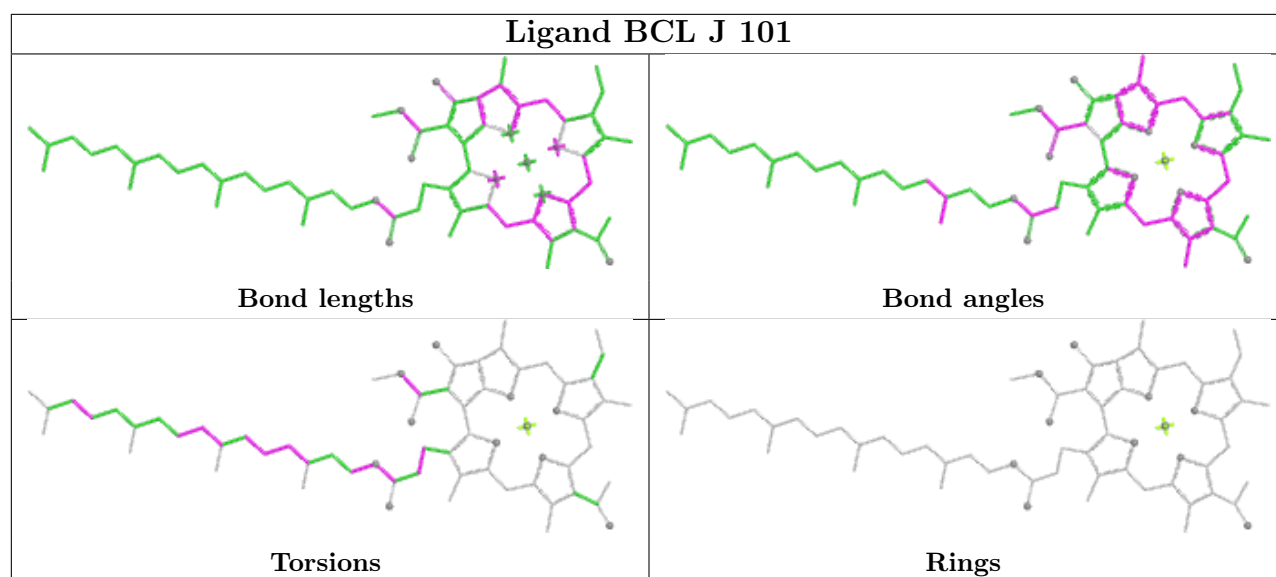


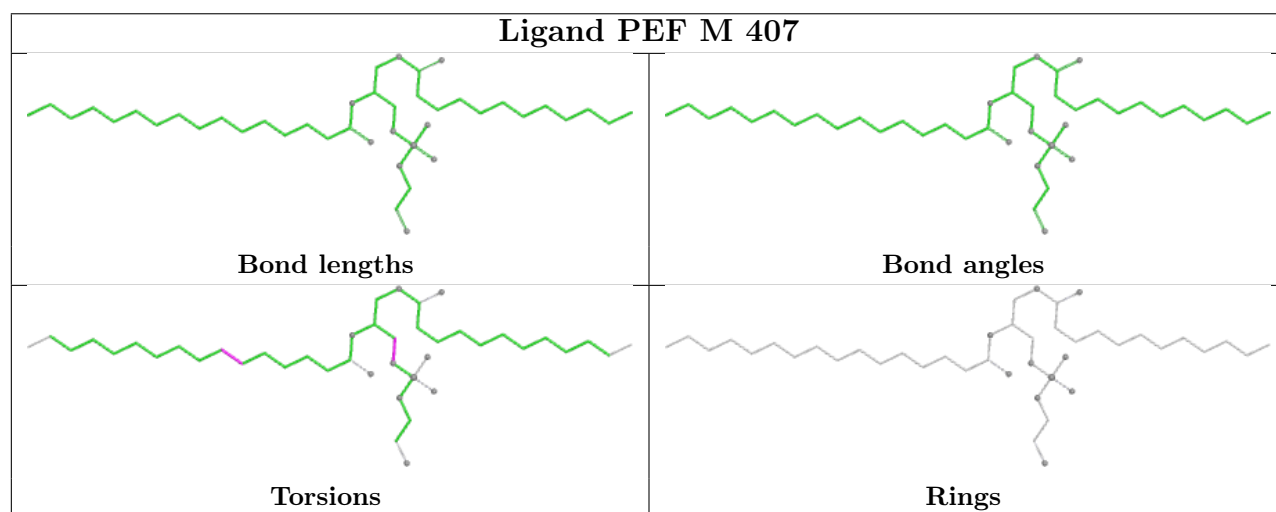
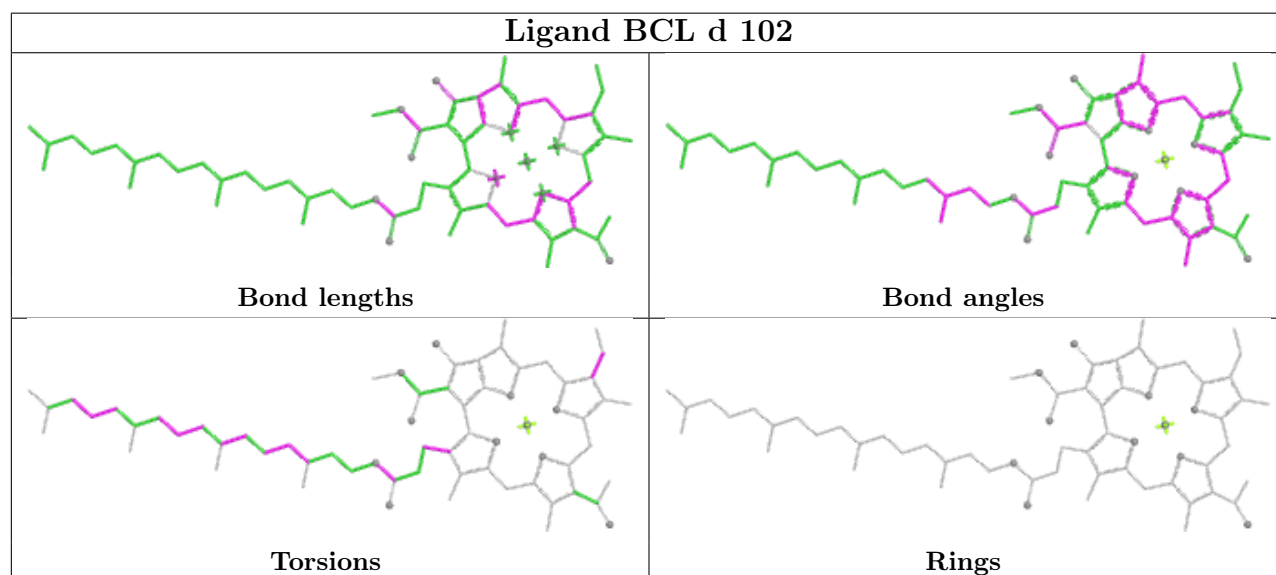
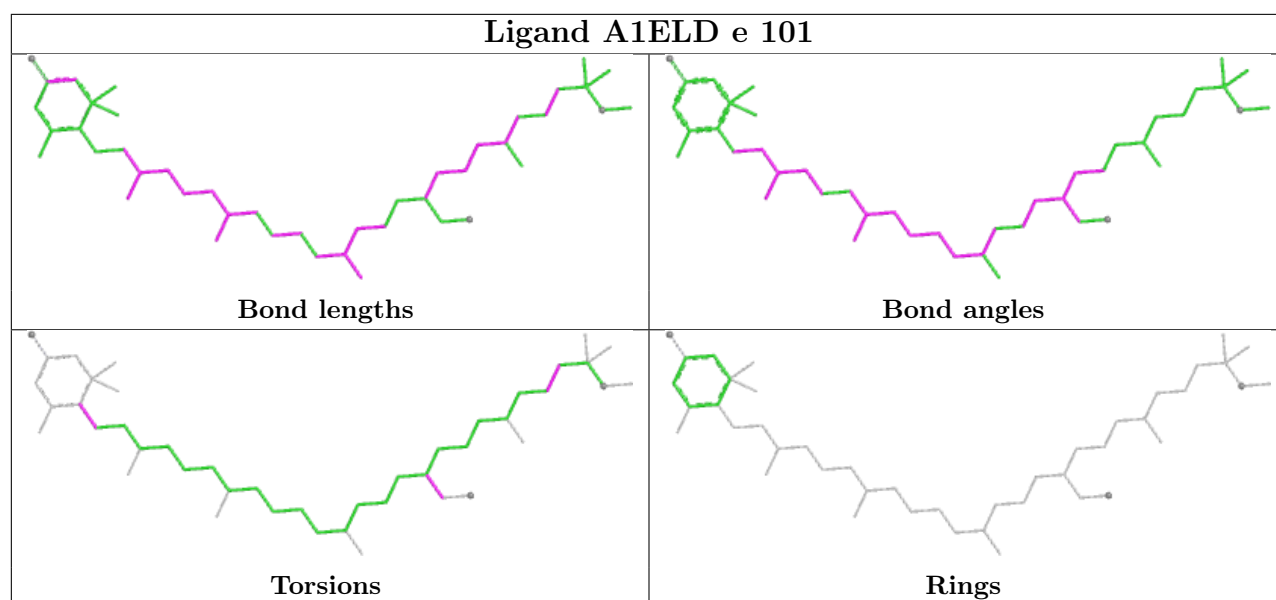


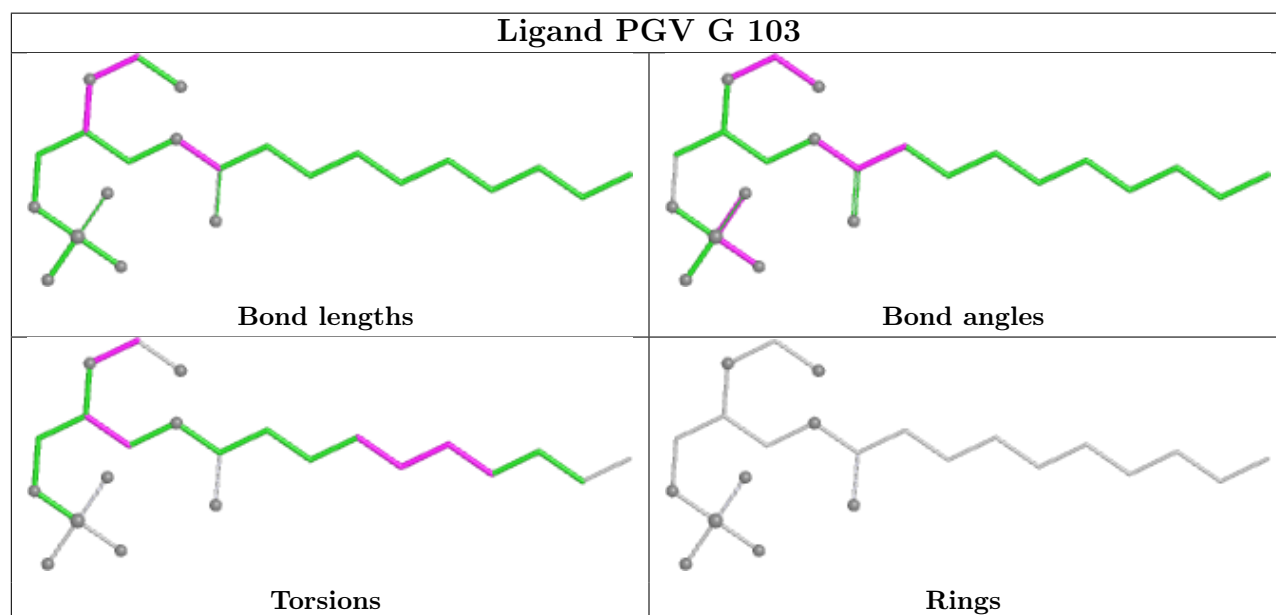
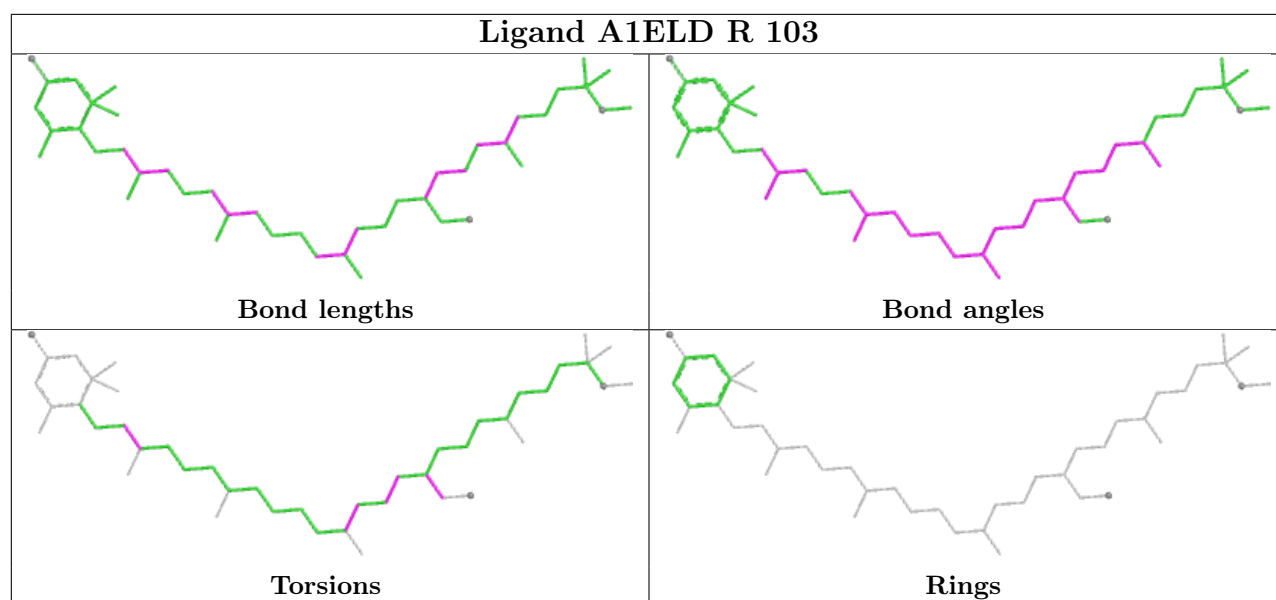




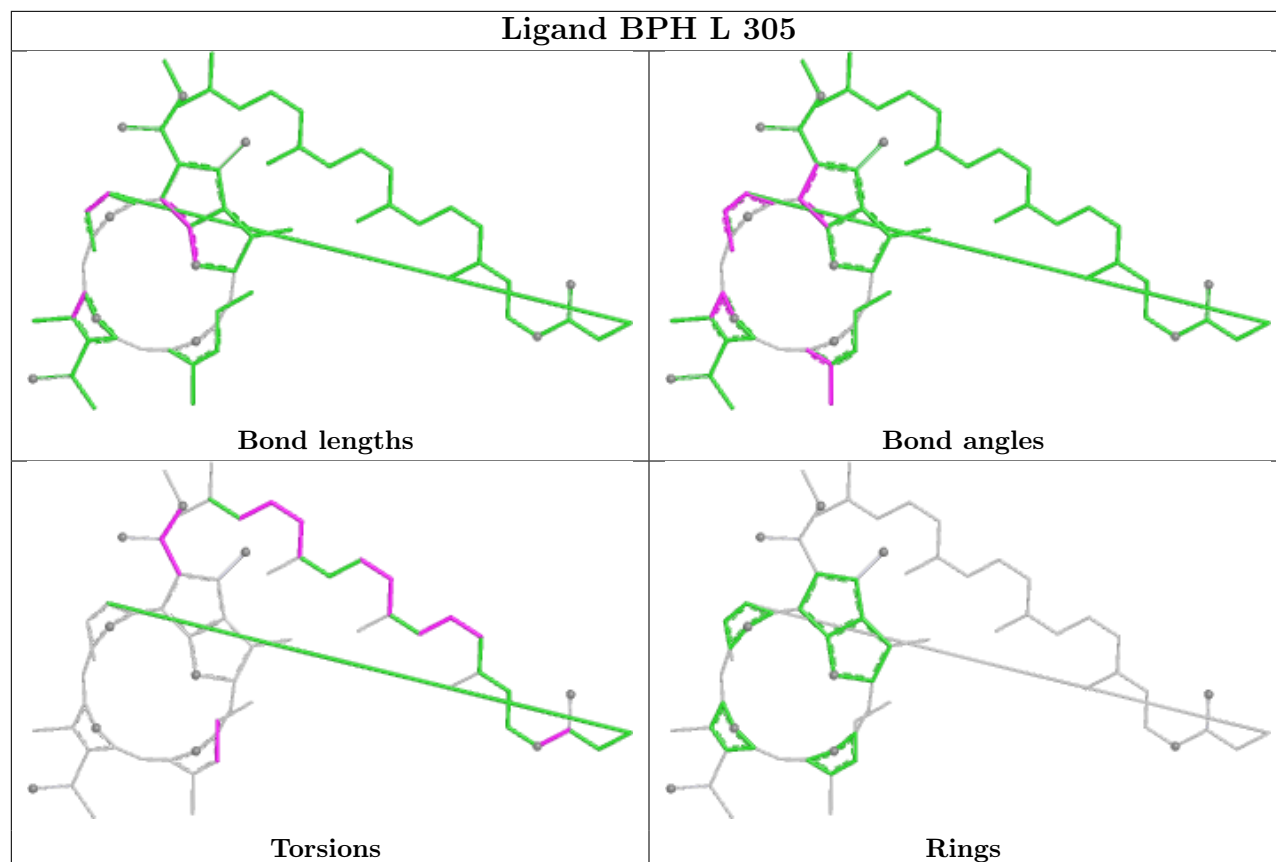




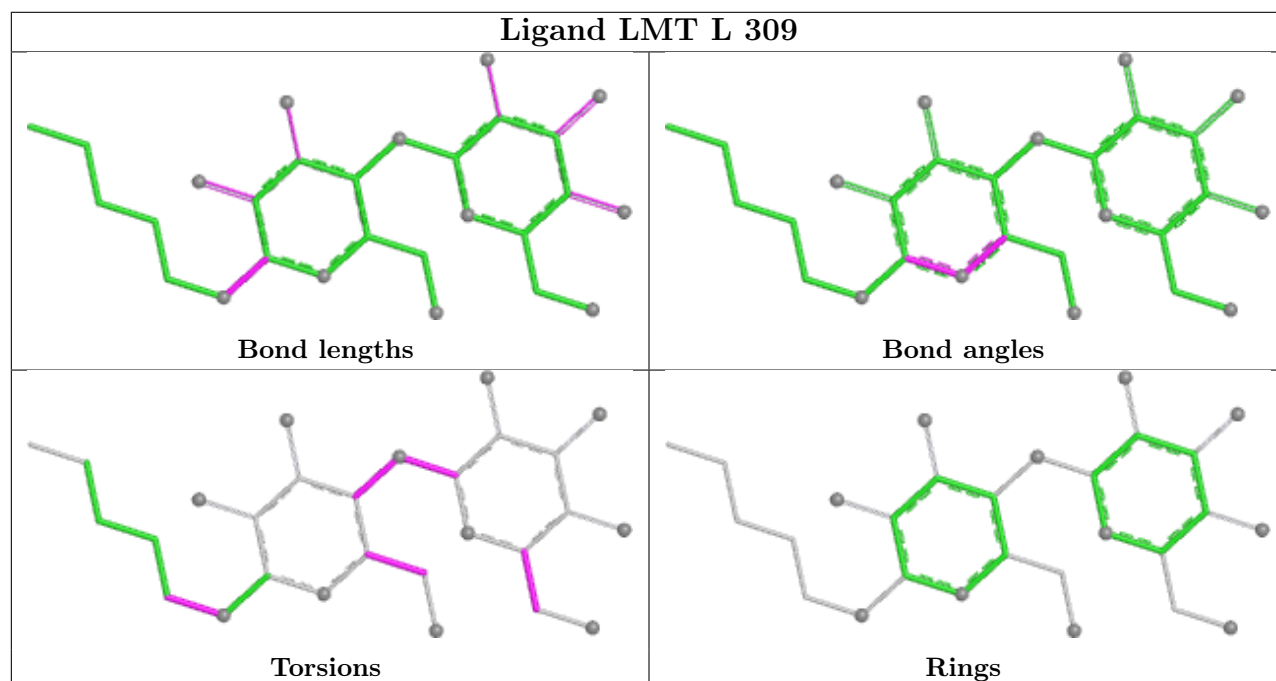


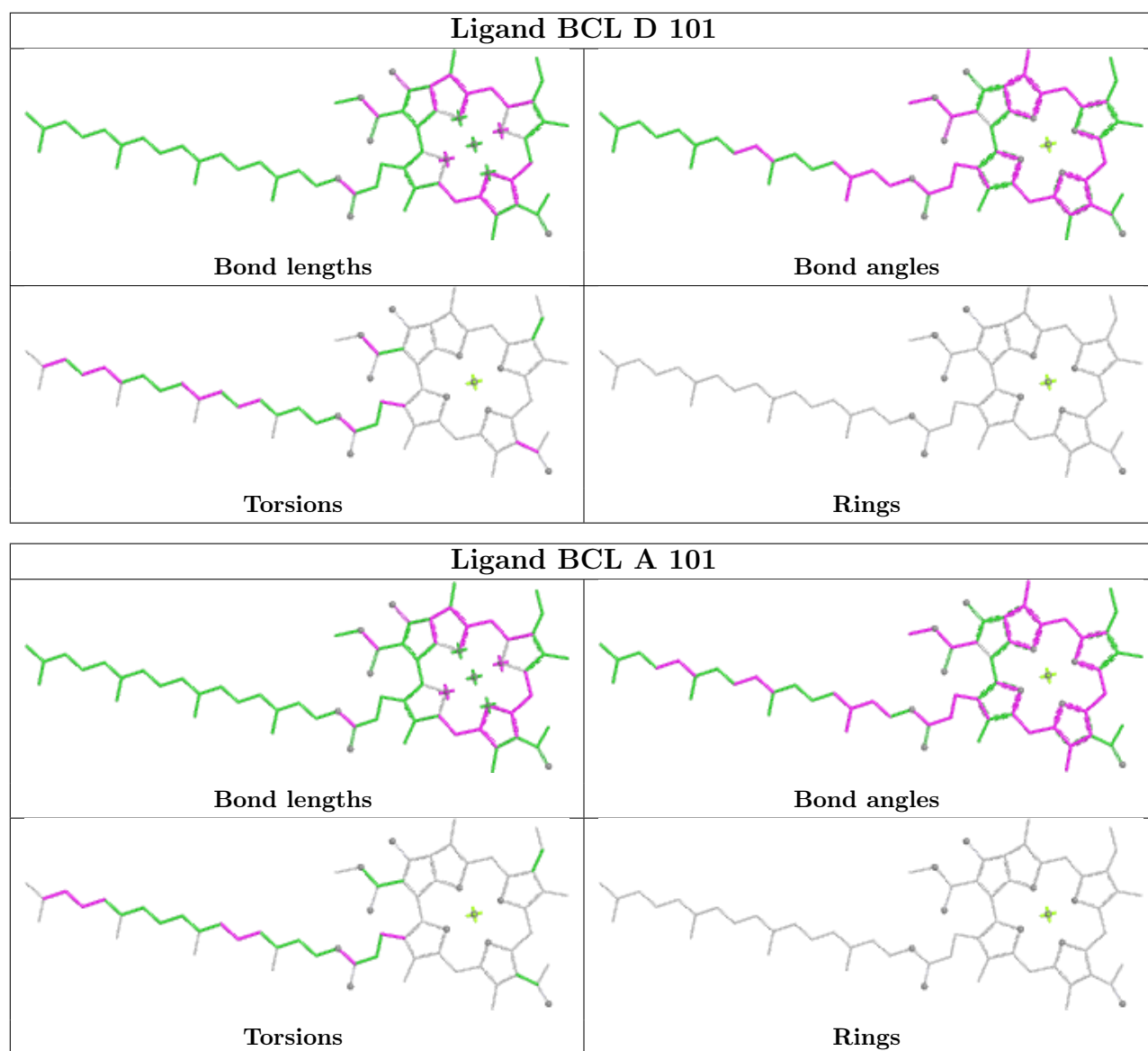


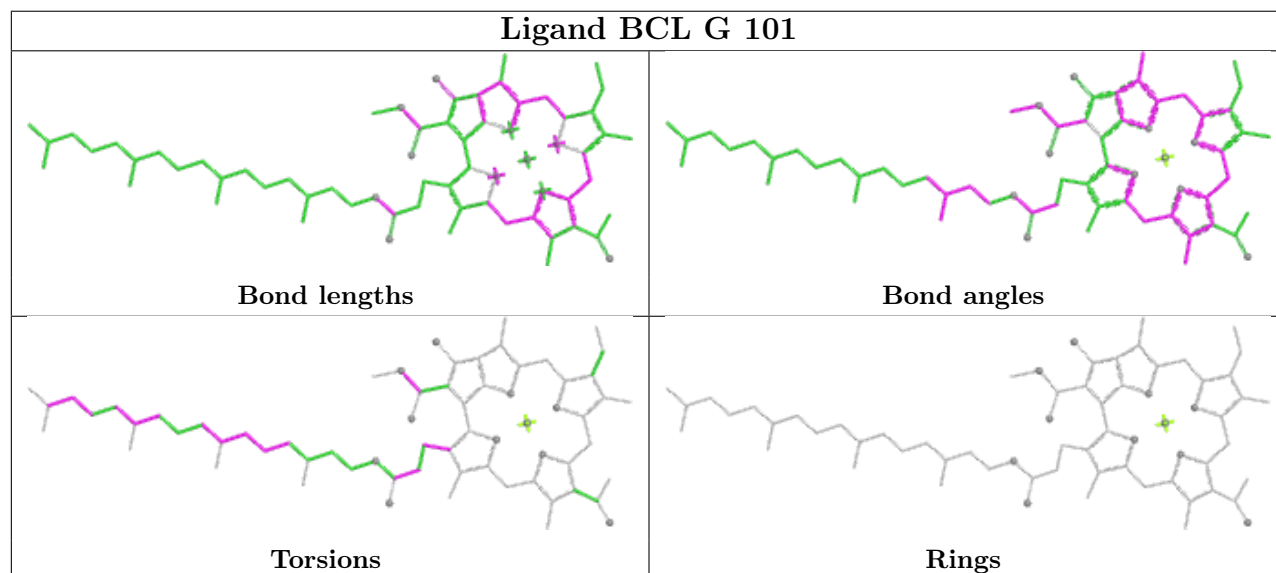
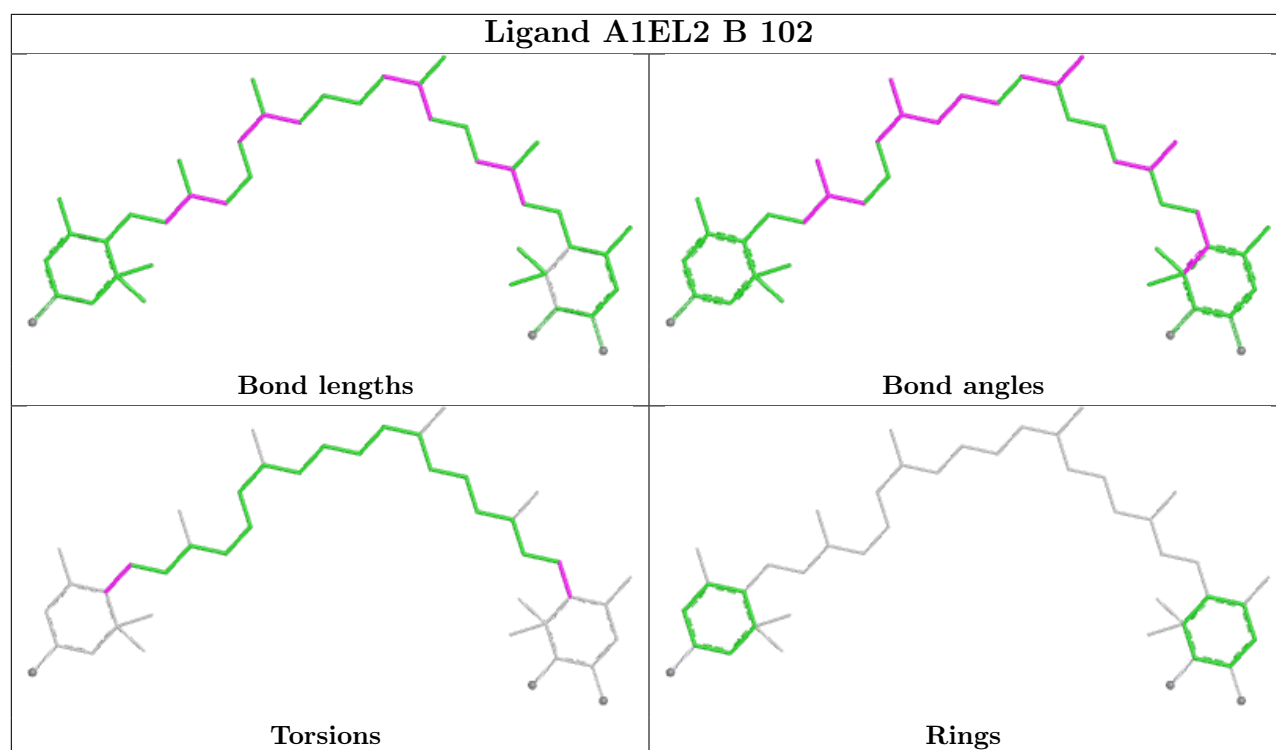
Ligand BPH L 305

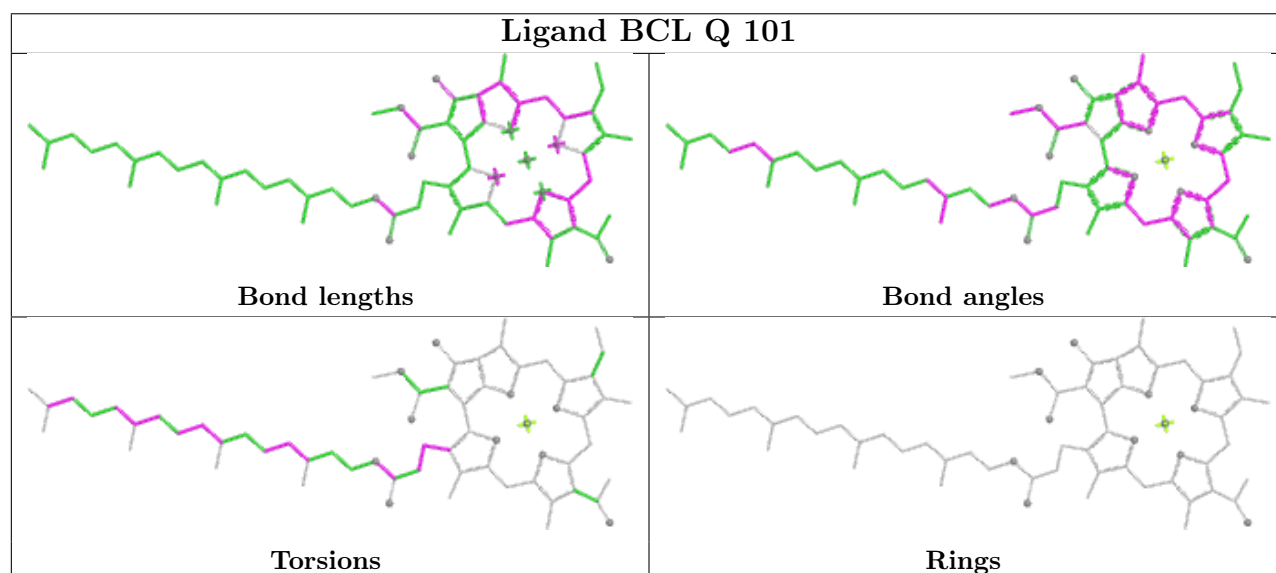
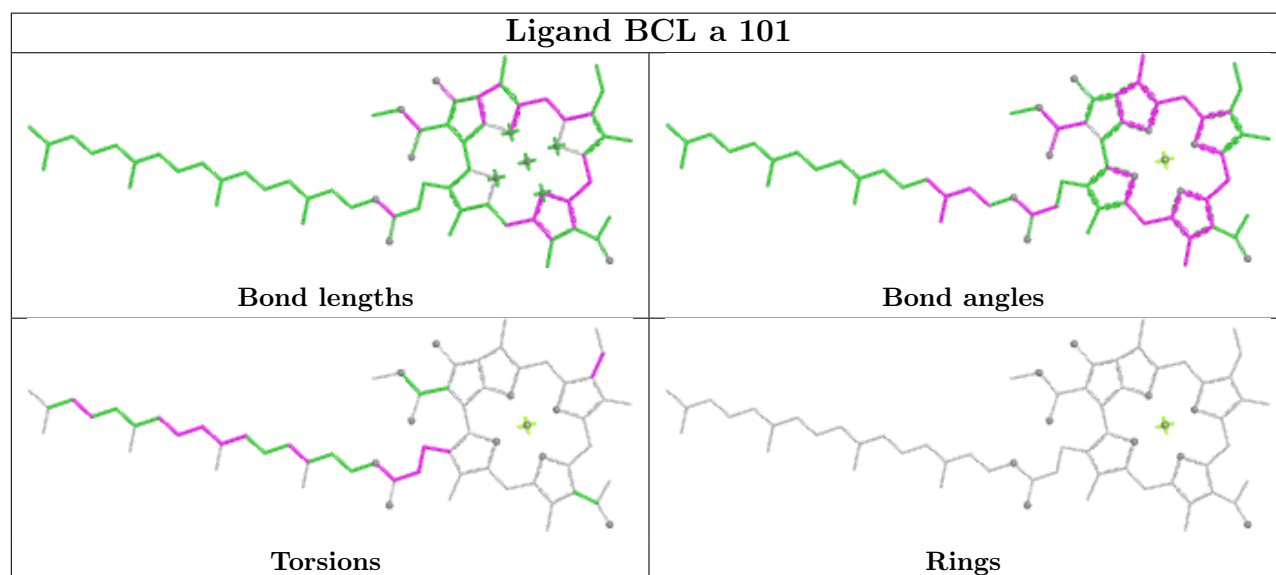
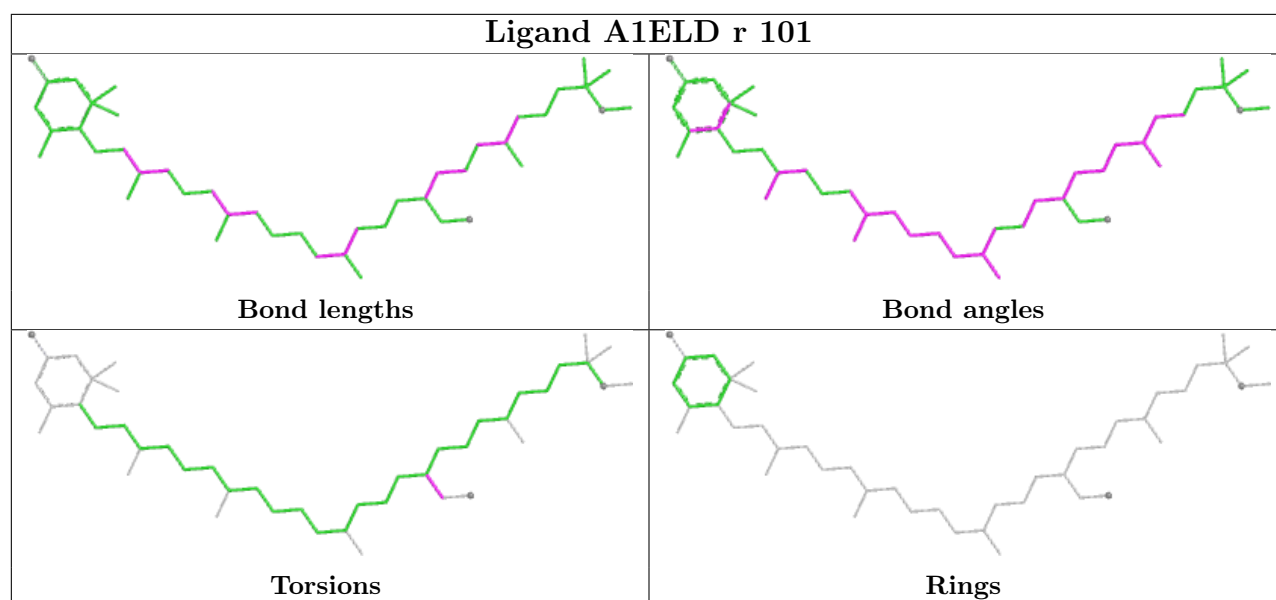


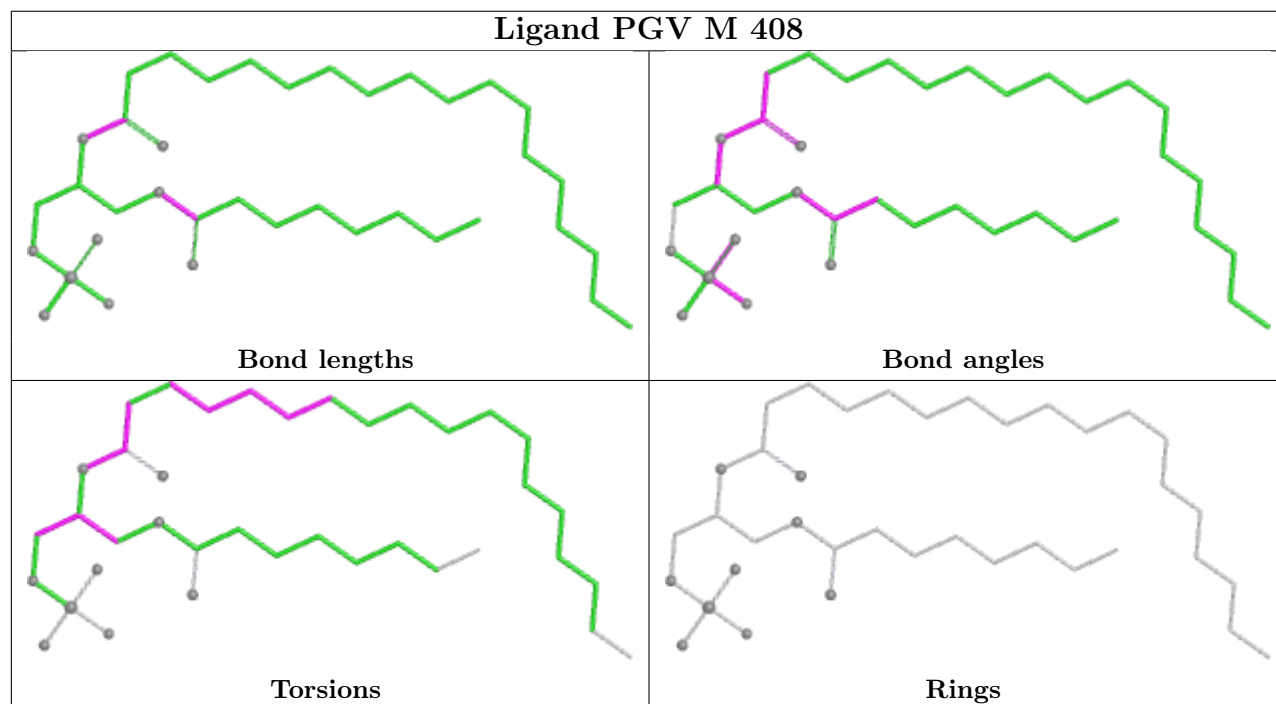
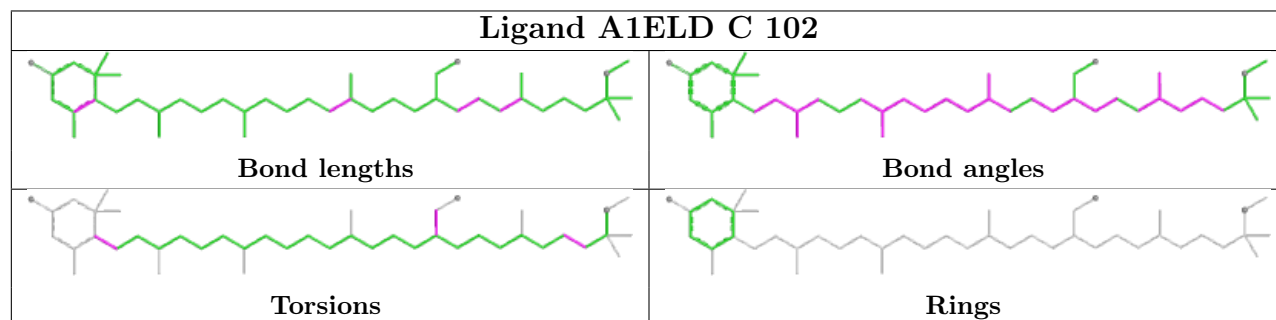
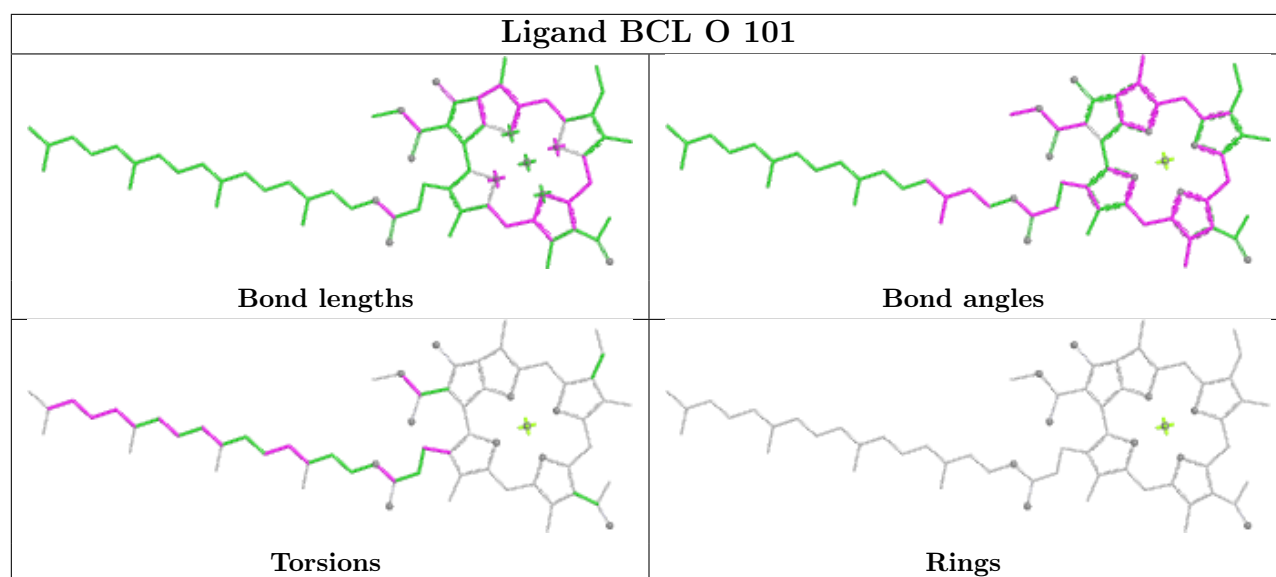
Ligand LMT L 309

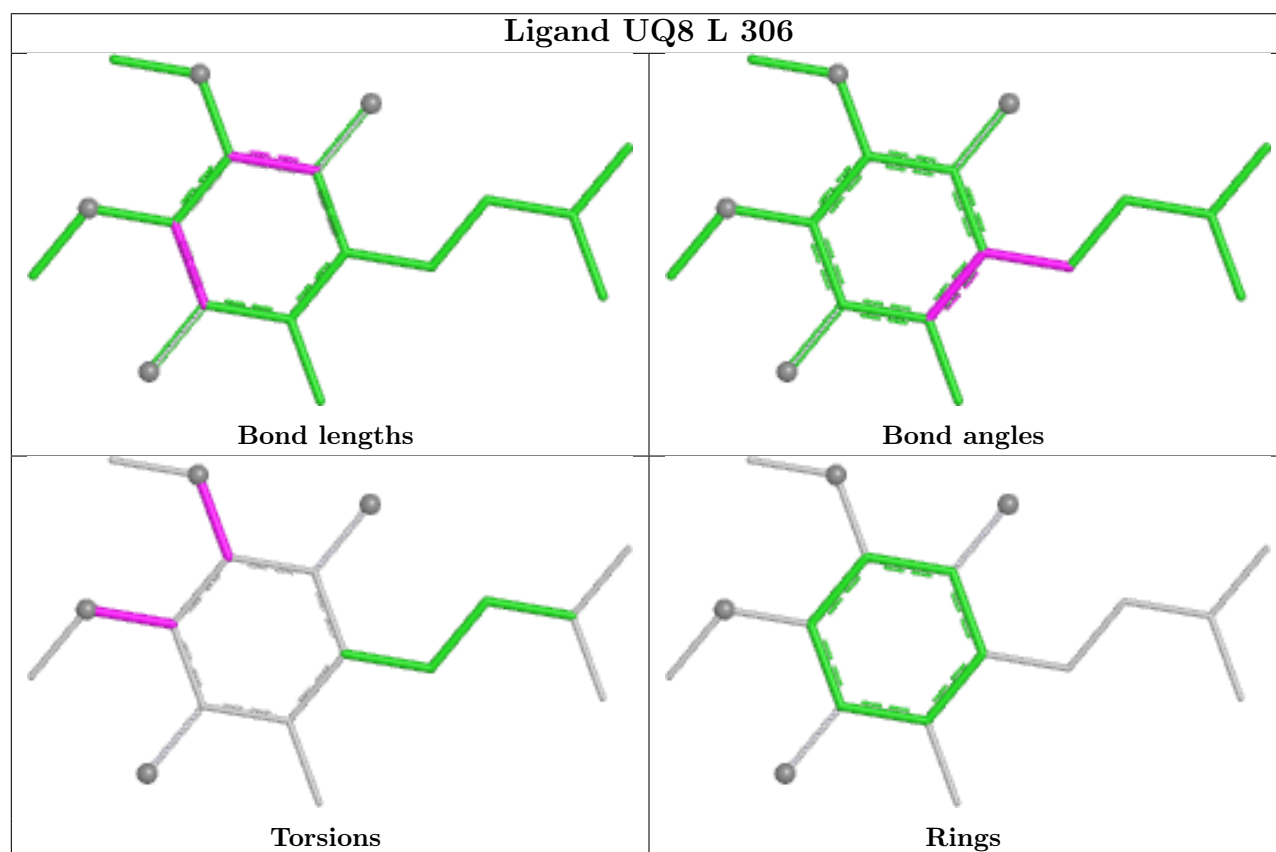
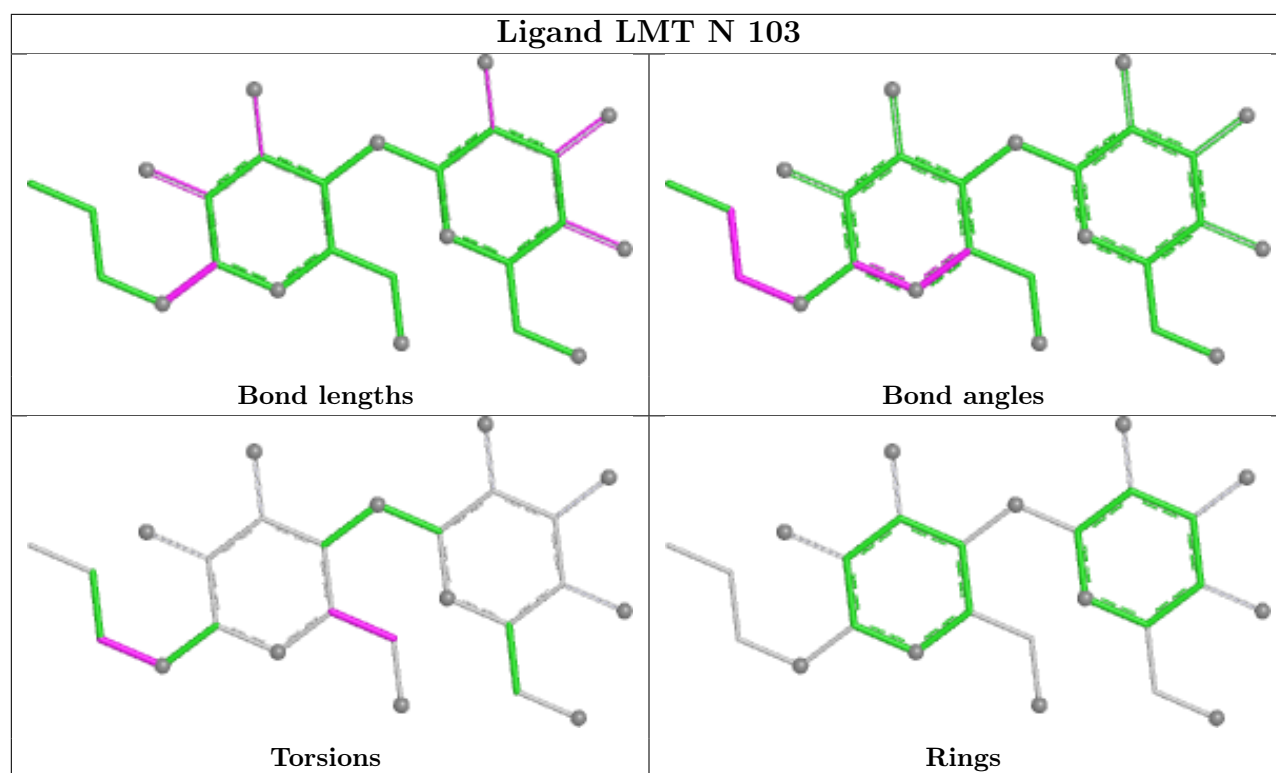


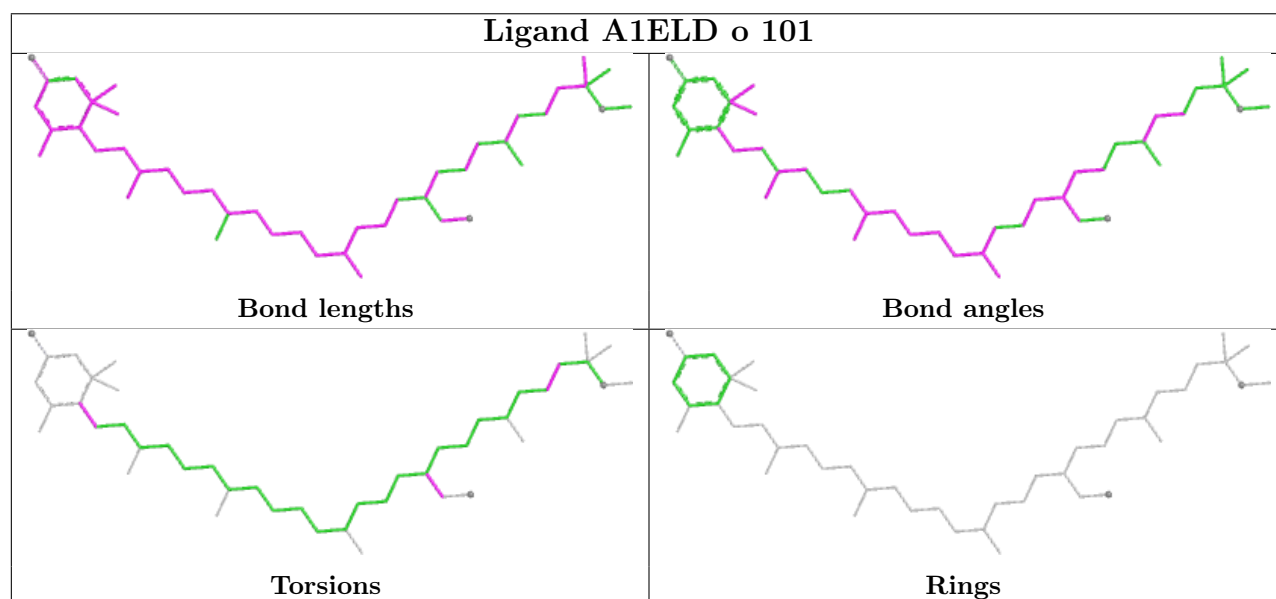
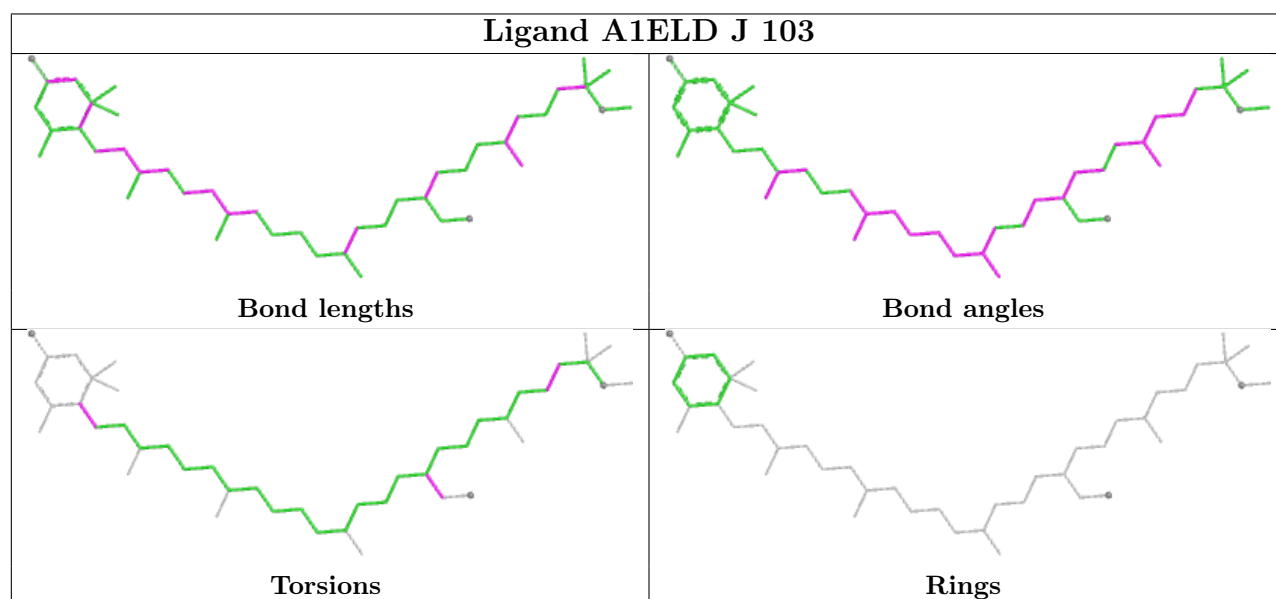
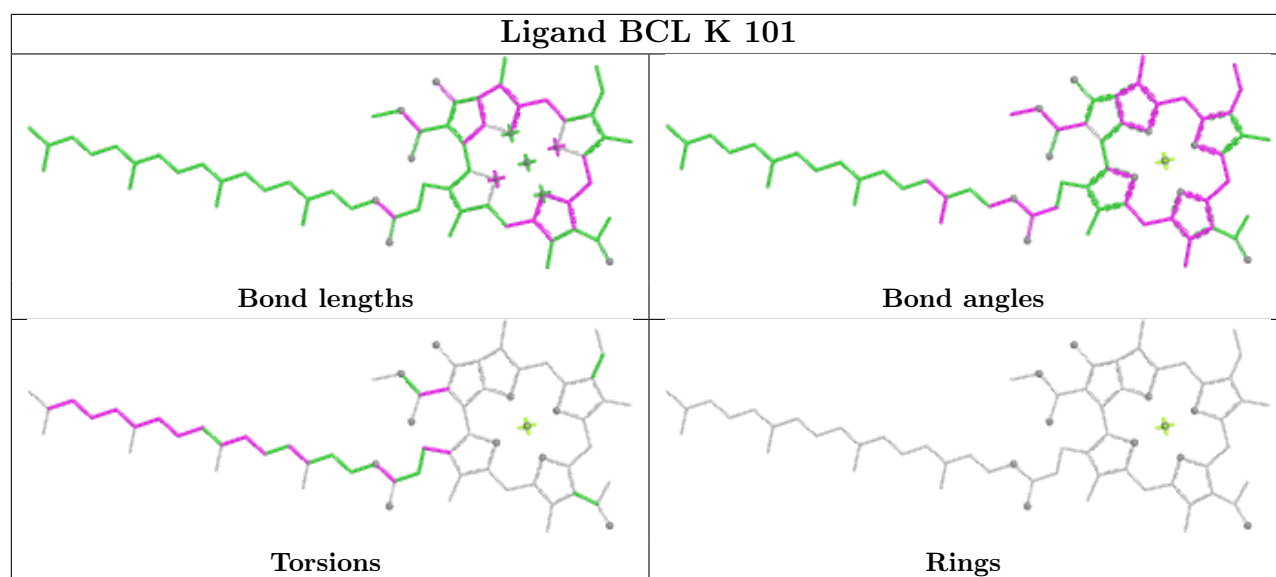


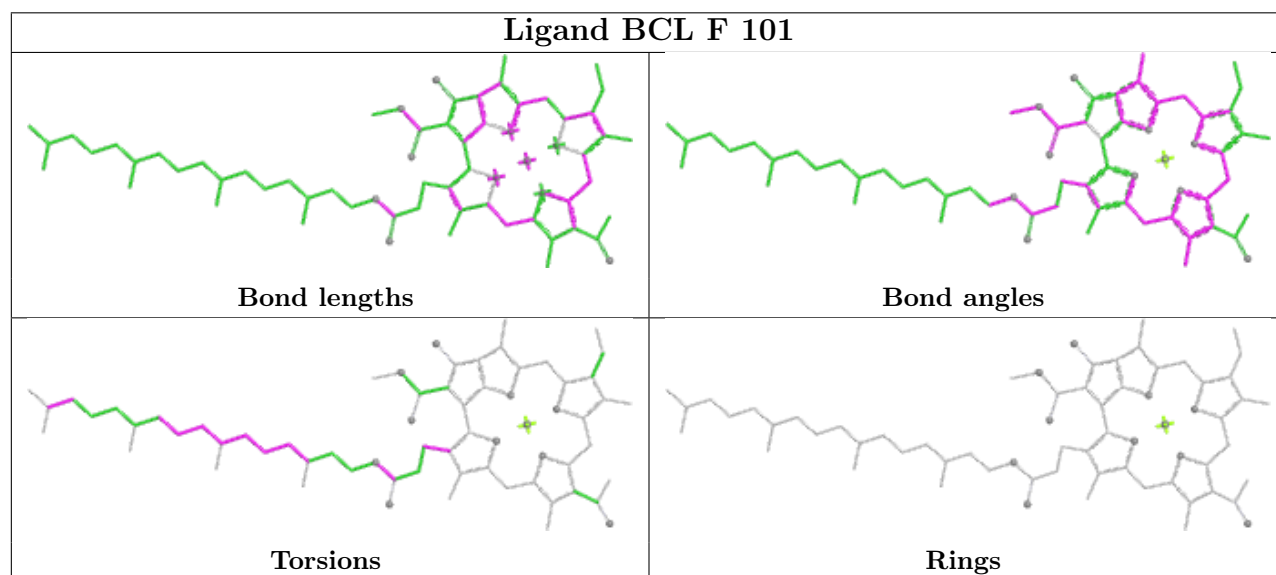
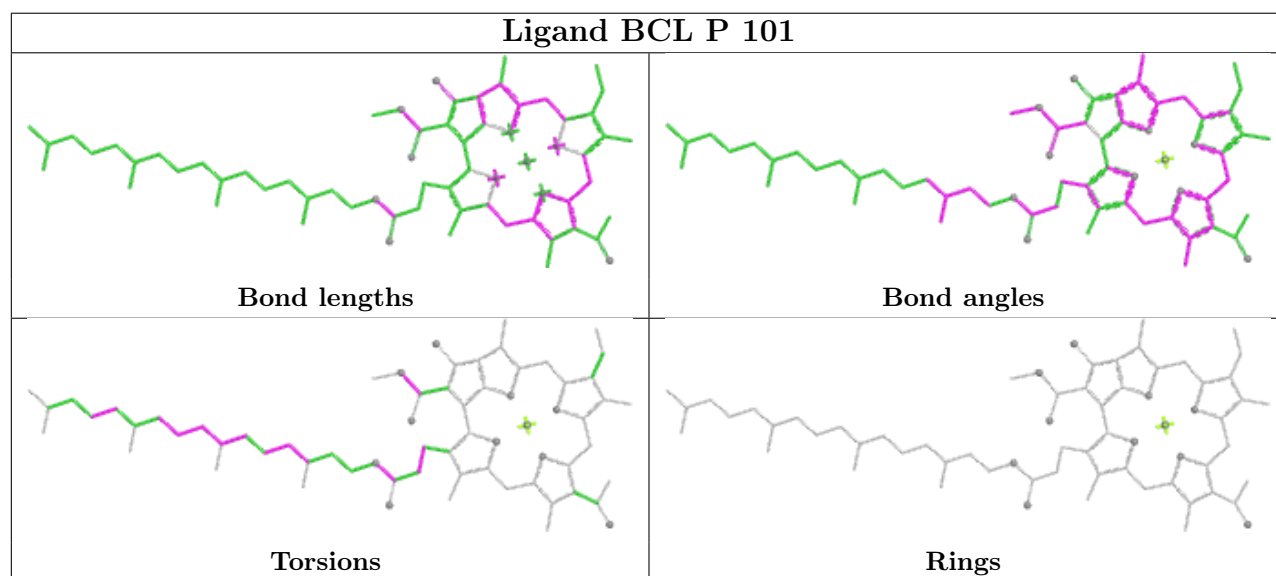
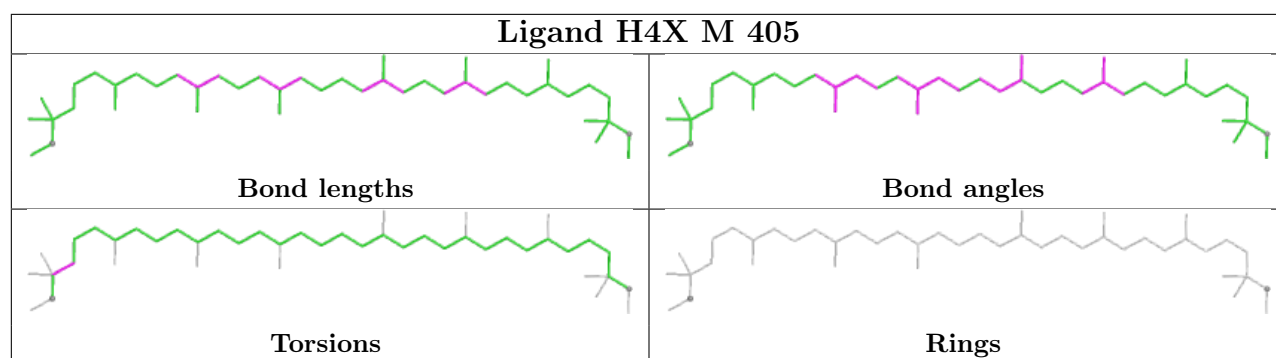


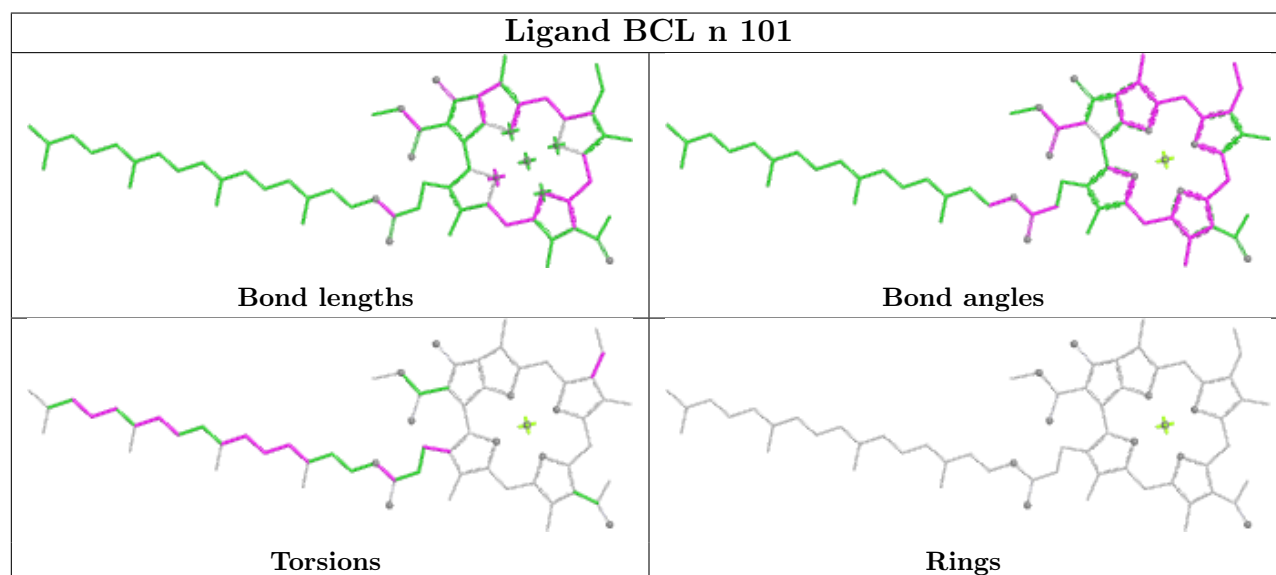
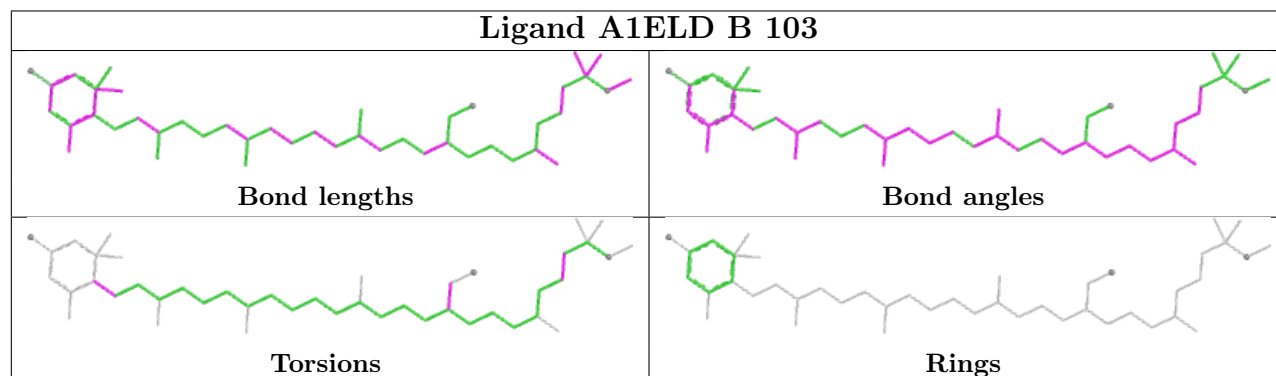
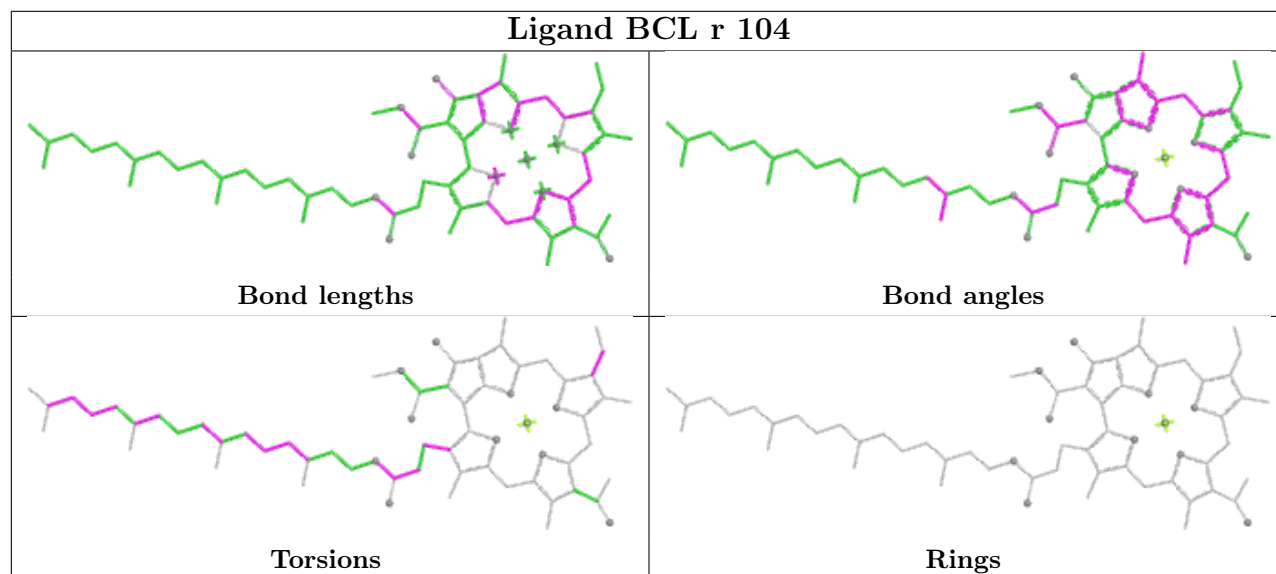


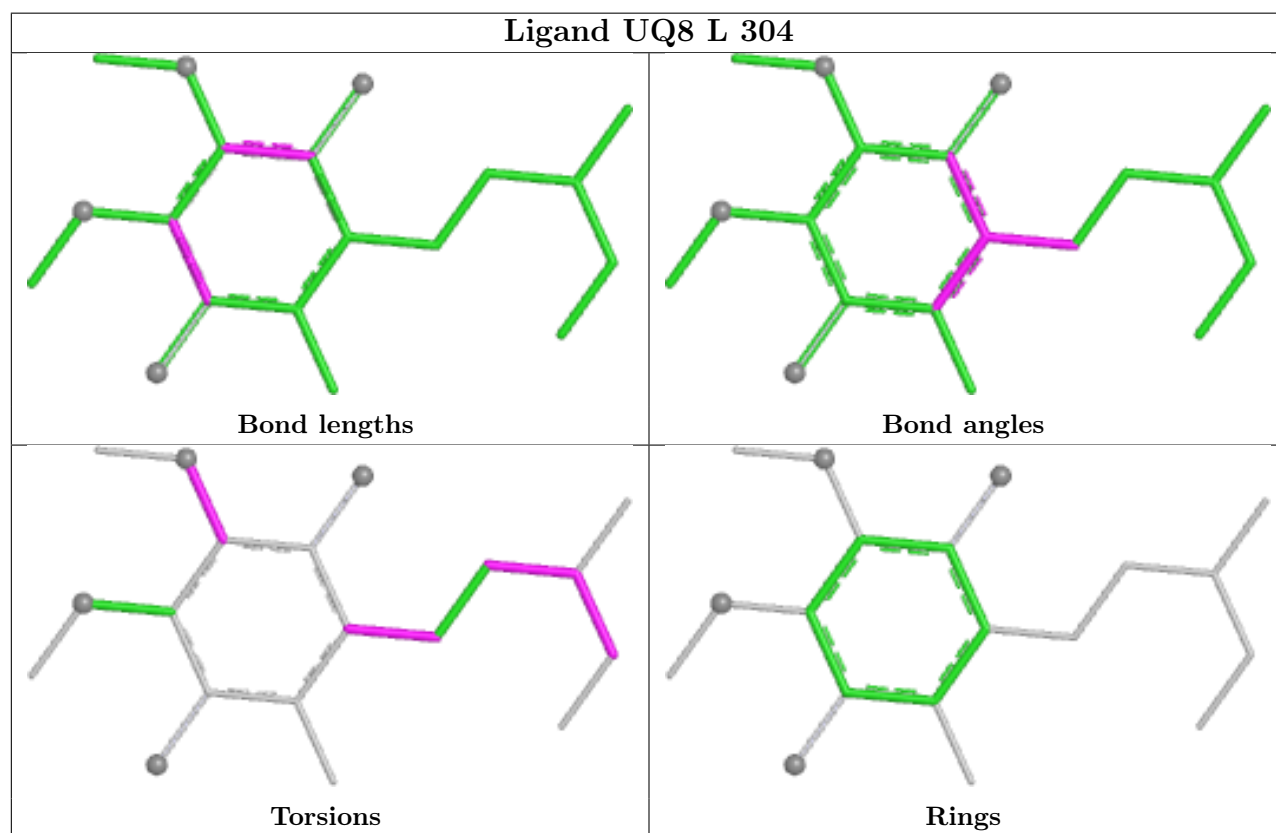
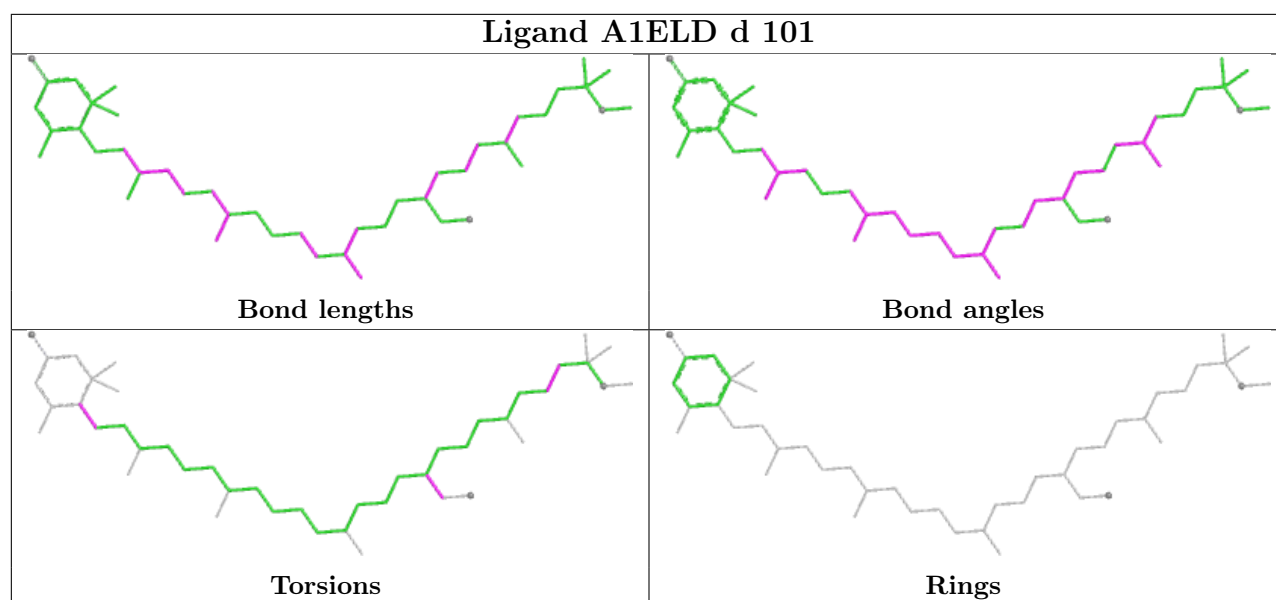


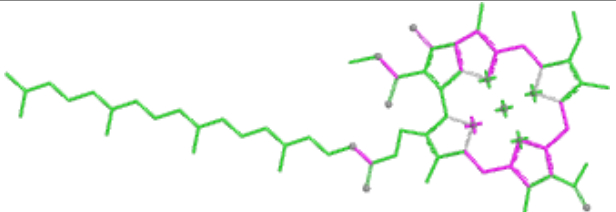
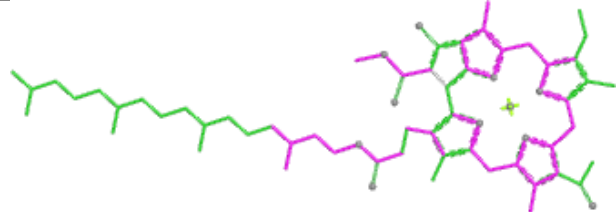
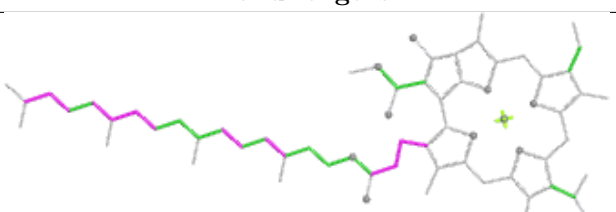
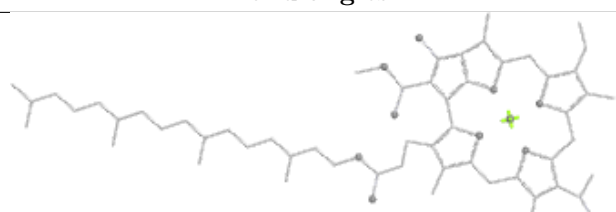




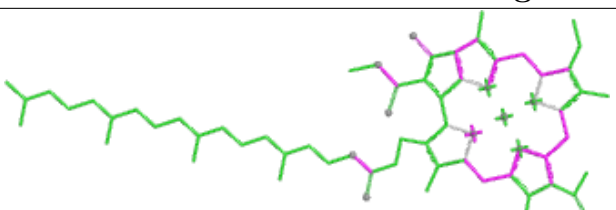
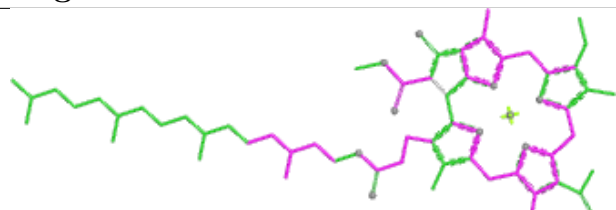
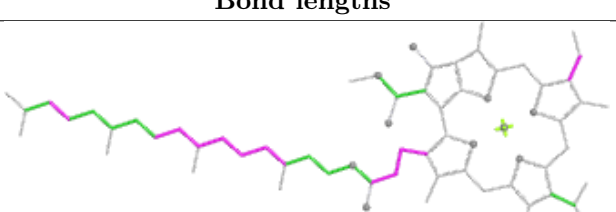
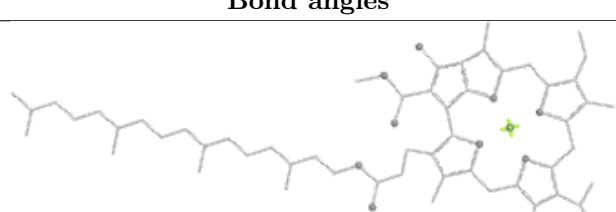


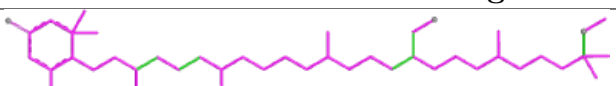
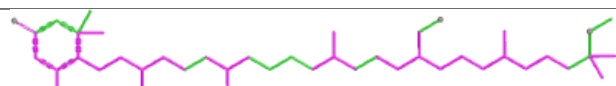
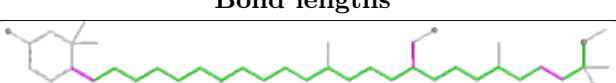
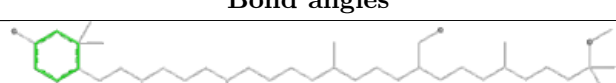




Ligand BCL I 101	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand 8K6 Q 104	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand BCL g 102	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand A1ELD R 102	
	
Bond lengths	Bond angles
	
Torsions	Rings

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

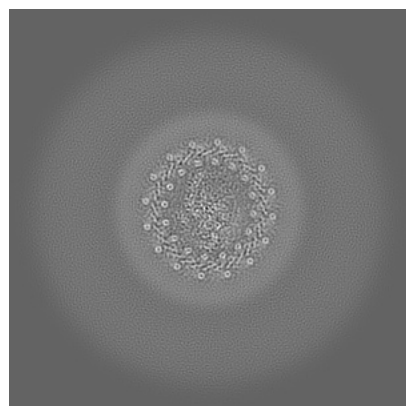
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-63370. These allow visual inspection of the internal detail of the map and identification of artifacts.

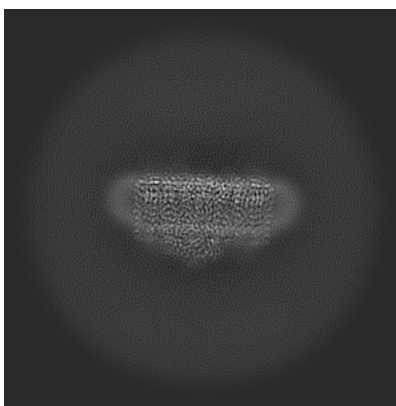
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

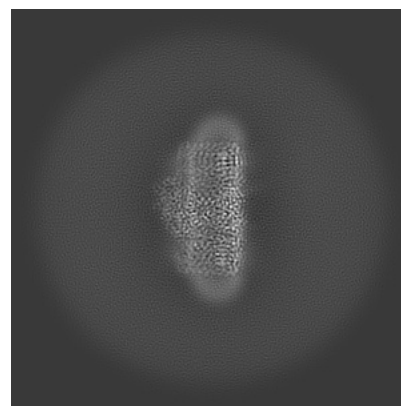
6.1.1 Primary map



X

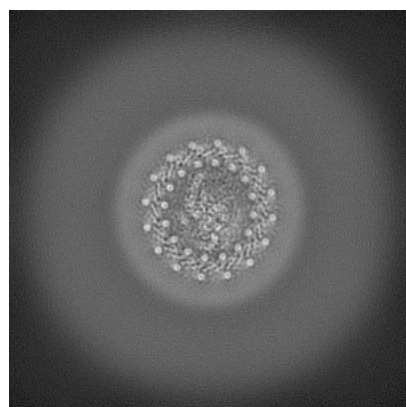


Y

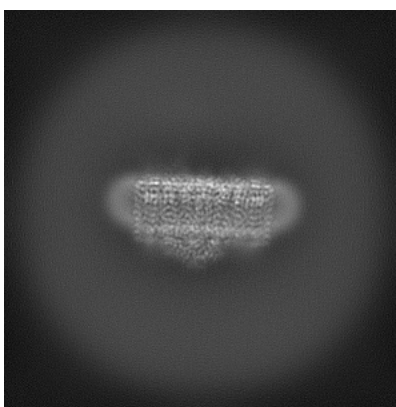


Z

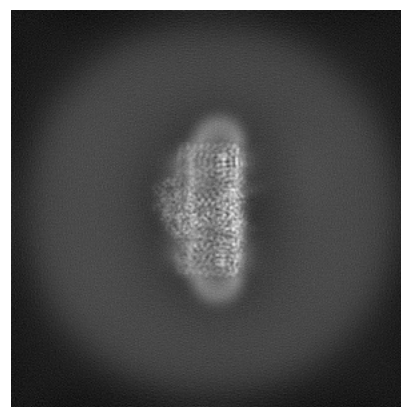
6.1.2 Raw map



X



Y

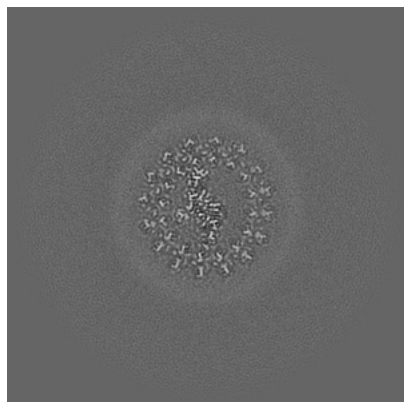


Z

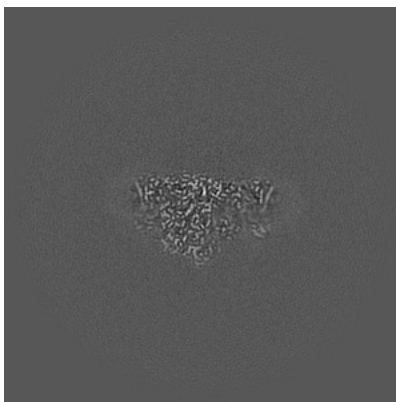
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

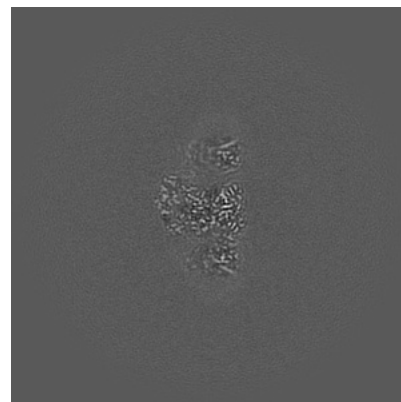
6.2.1 Primary map



X Index: 200

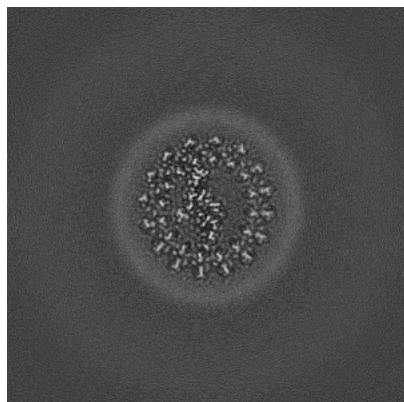


Y Index: 200

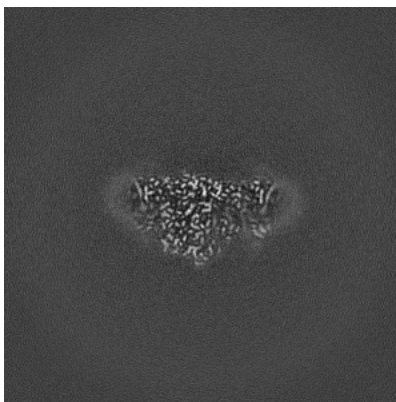


Z Index: 200

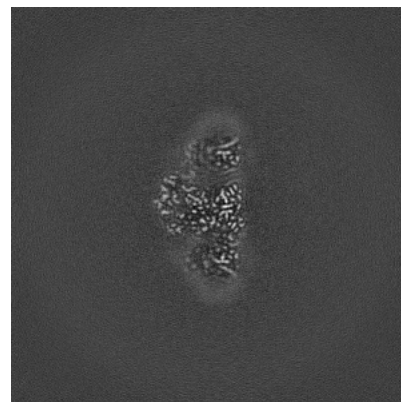
6.2.2 Raw map



X Index: 200



Y Index: 200

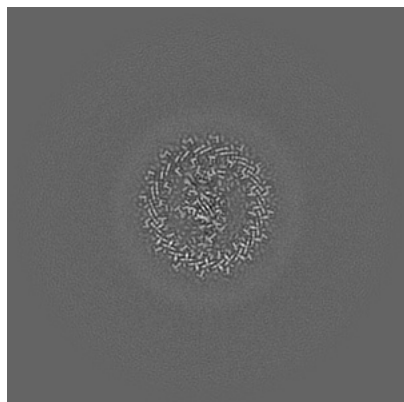


Z Index: 200

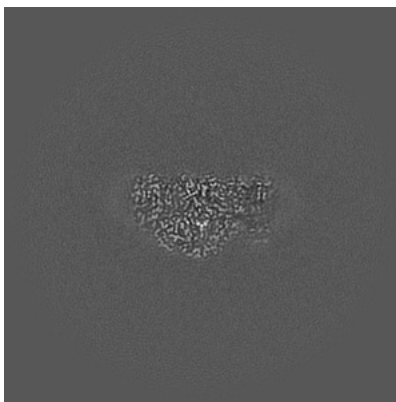
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

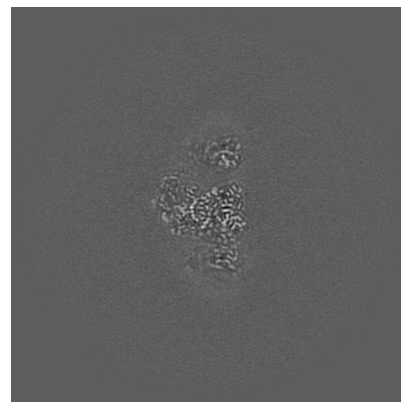
6.3.1 Primary map



X Index: 213

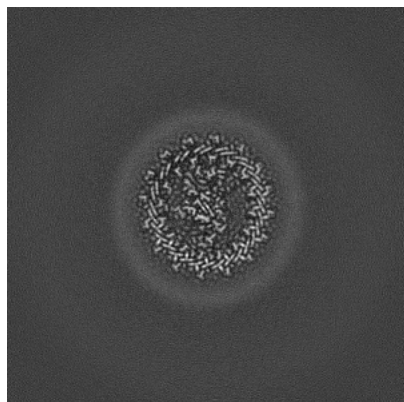


Y Index: 195

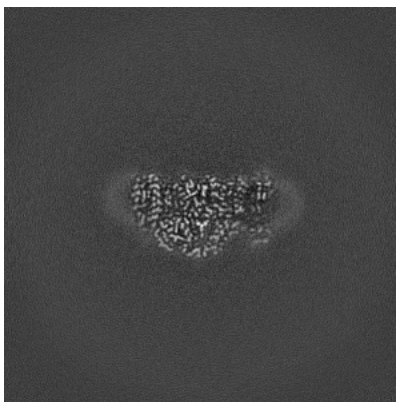


Z Index: 198

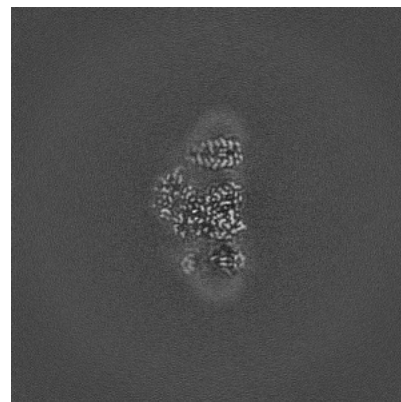
6.3.2 Raw map



X Index: 213



Y Index: 195

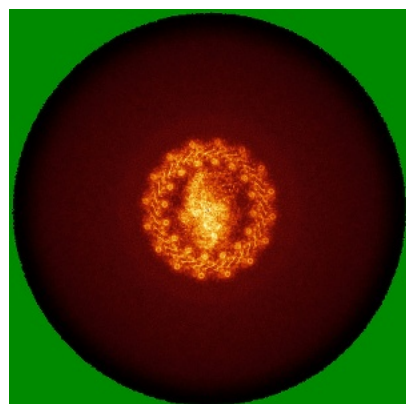


Z Index: 194

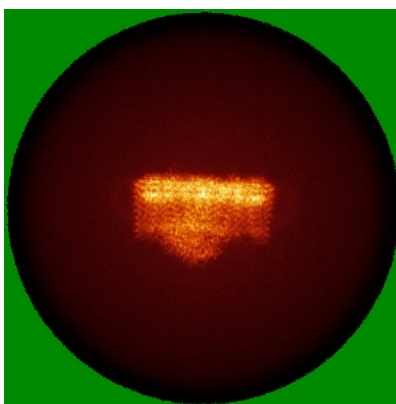
The images above show the largest variance slices of the map in three orthogonal directions.

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

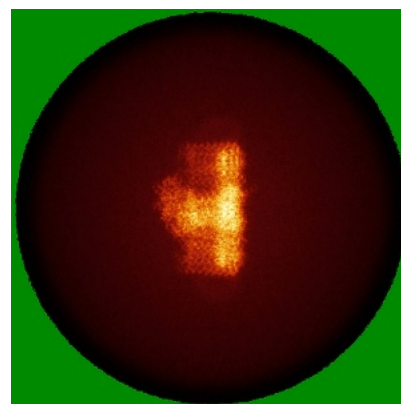
6.4.1 Primary map



X

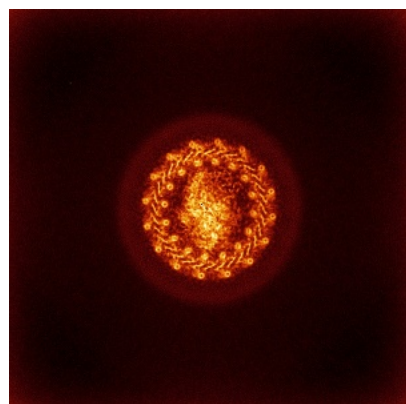


Y

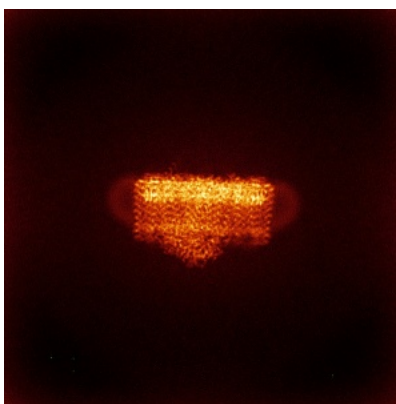


Z

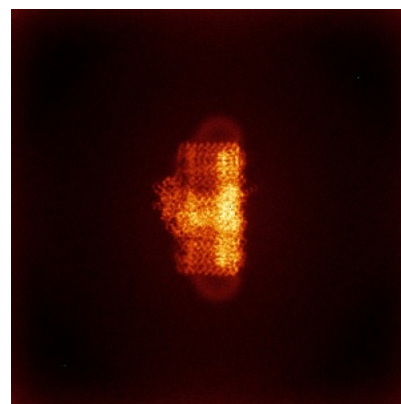
6.4.2 Raw map



X



Y

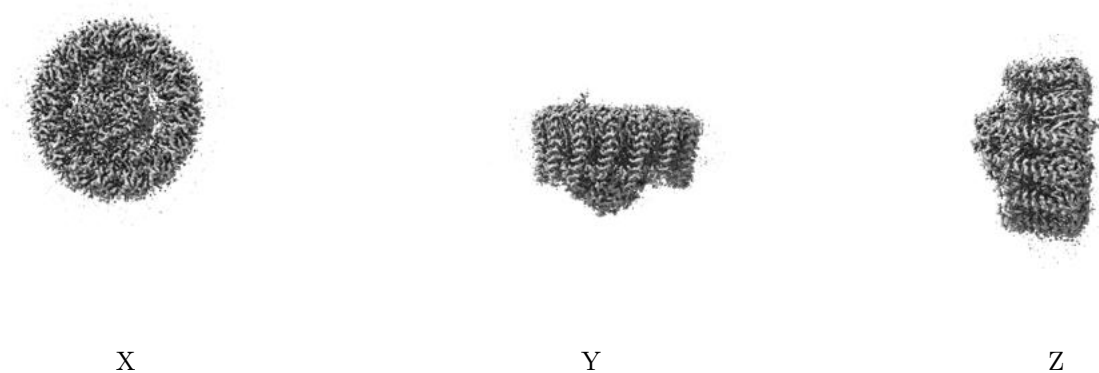


Z

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.

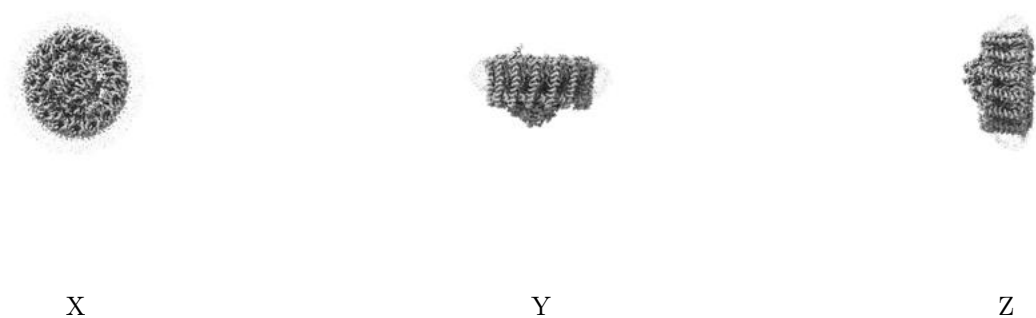
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0961. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 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.

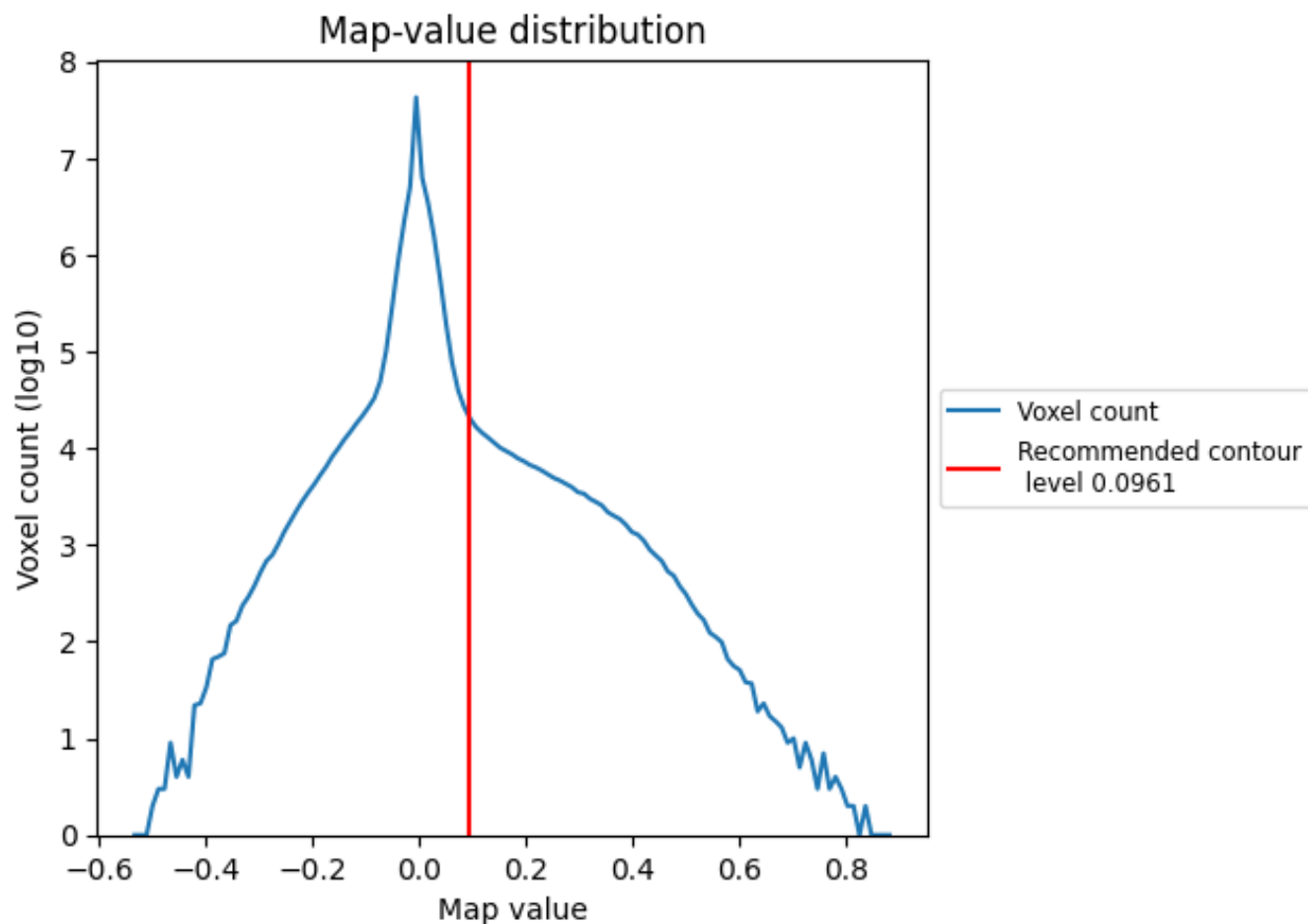
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

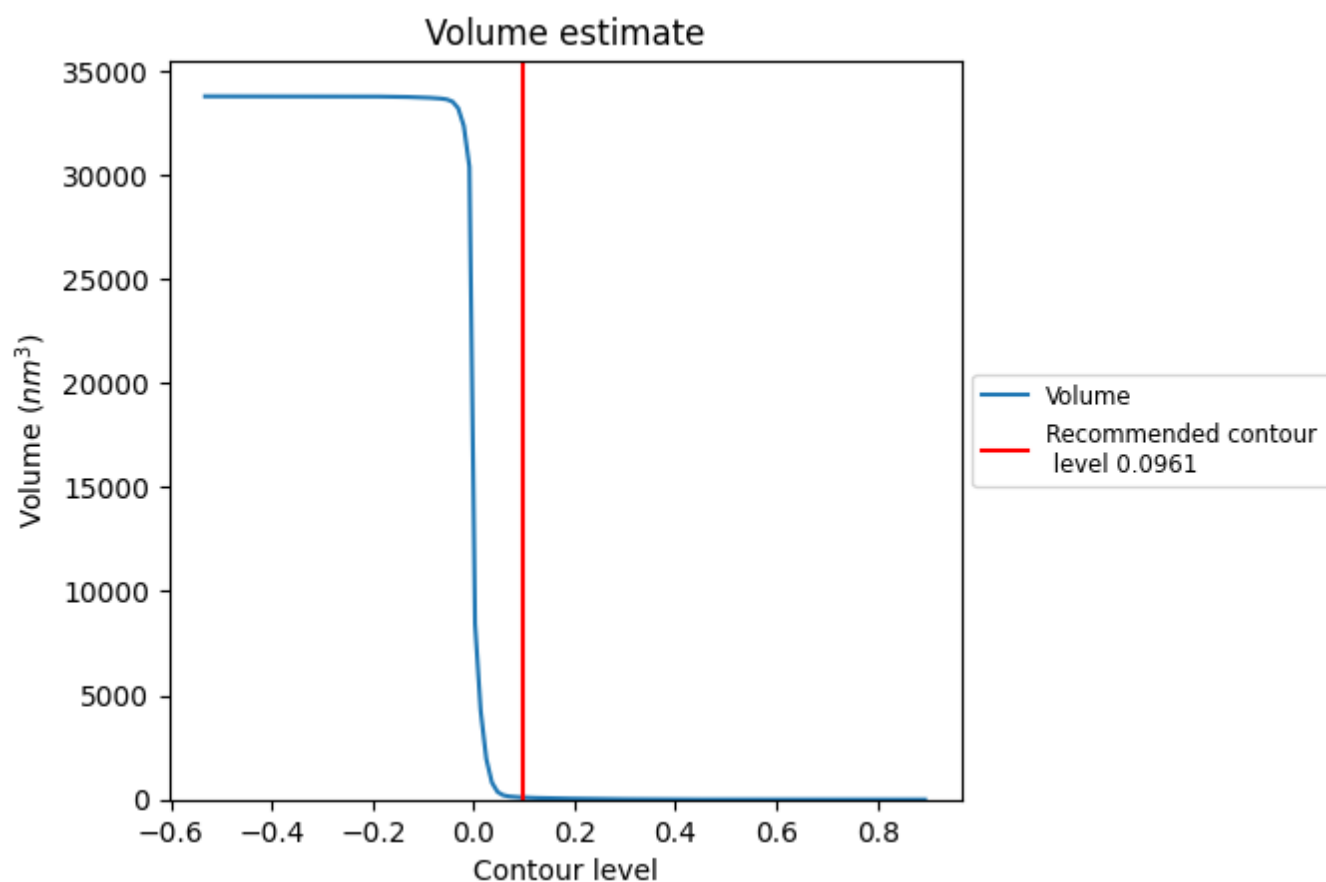
This section contains the results of statistical analysis of the map.

7.1 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.

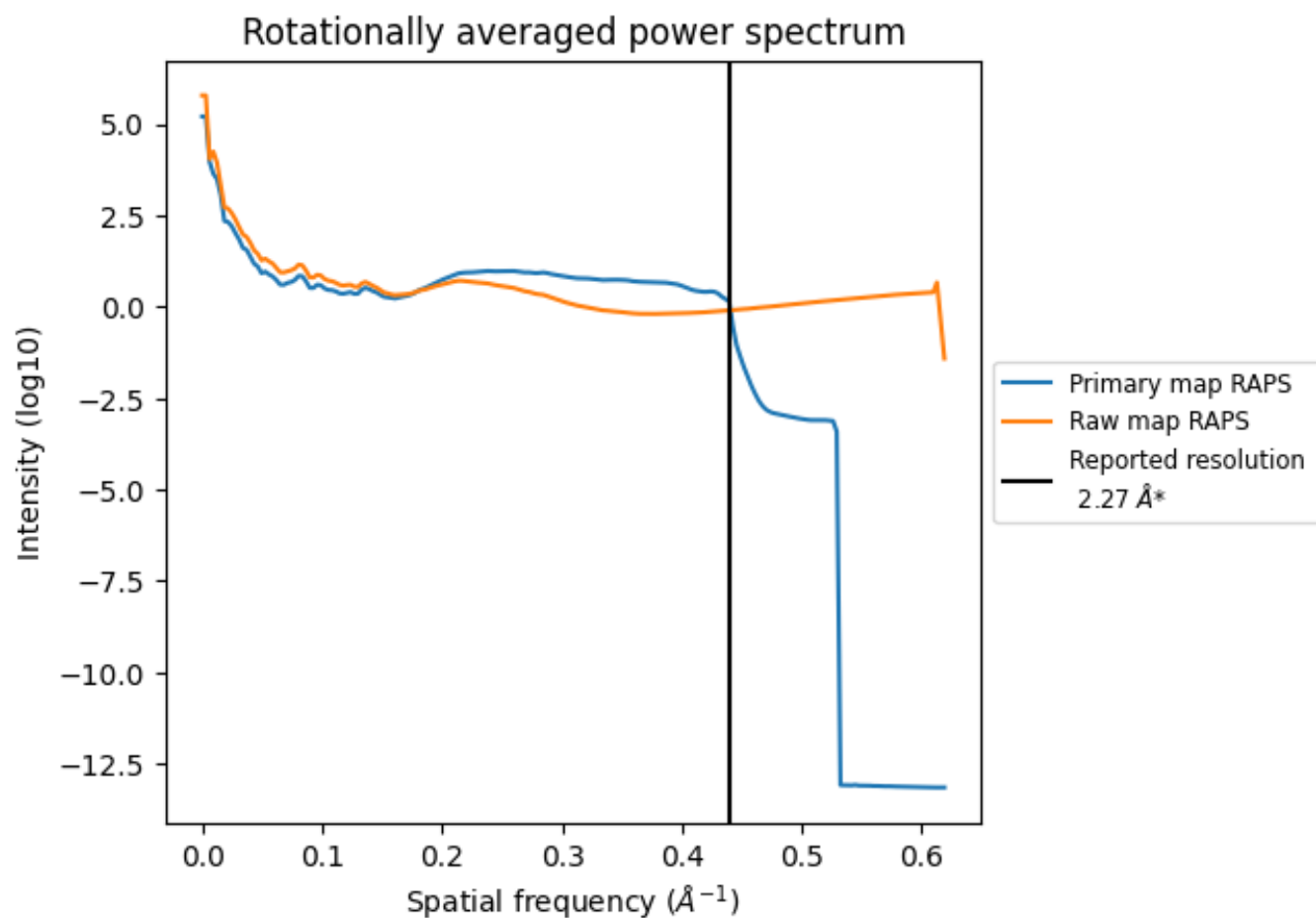
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 103 nm³; this corresponds to an approximate mass of 93 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.

7.3 Rotationally averaged power spectrum ⓘ

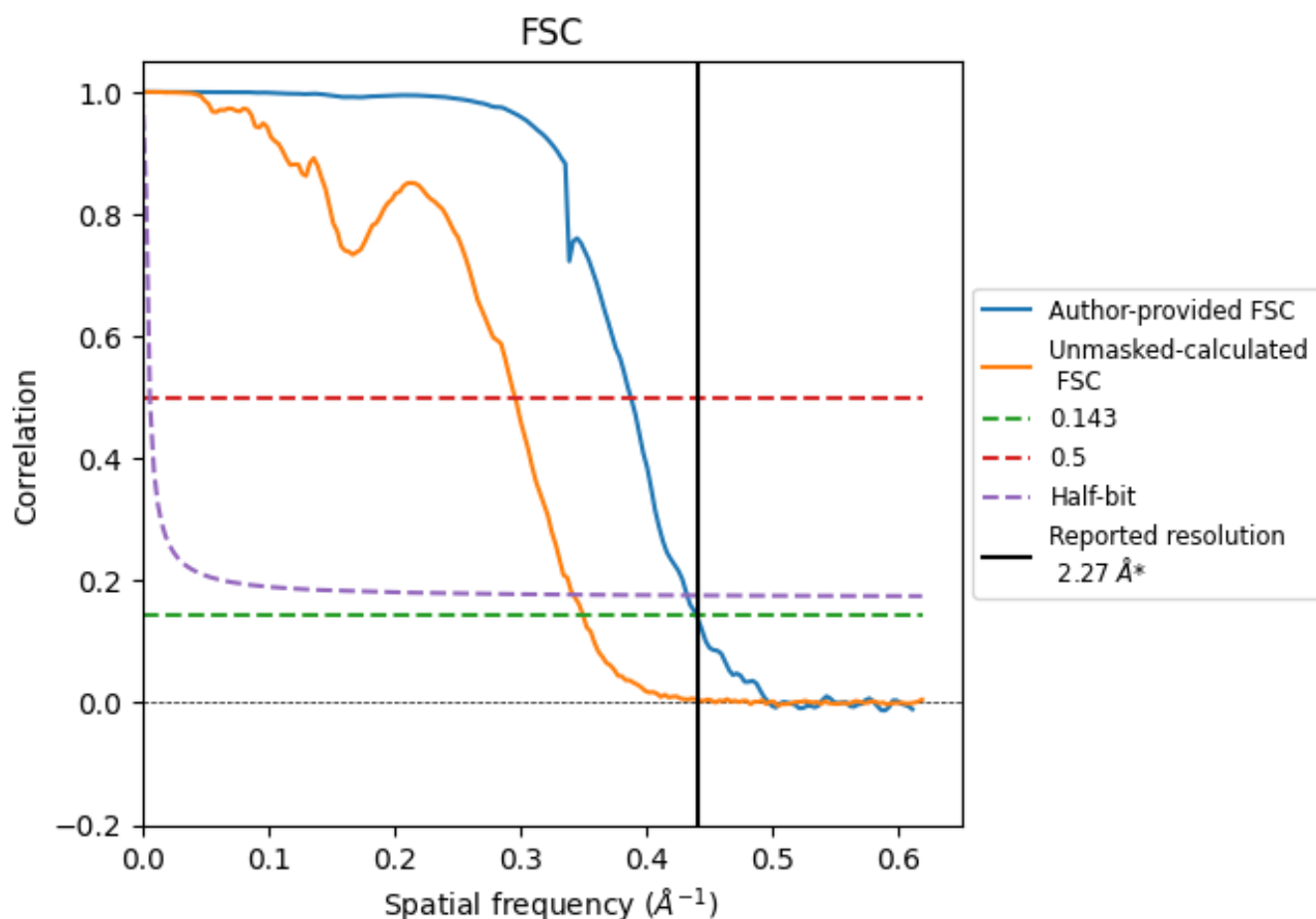


*Reported resolution corresponds to spatial frequency of 0.441 $\text{\AA}^{-1}$

8 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.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.441 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.27	-	-
Author-provided FSC curve	2.27	2.58	2.31
Unmasked-calculated*	2.86	3.38	2.92

*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 2.86 differs from the reported value 2.27 by more than 10 %

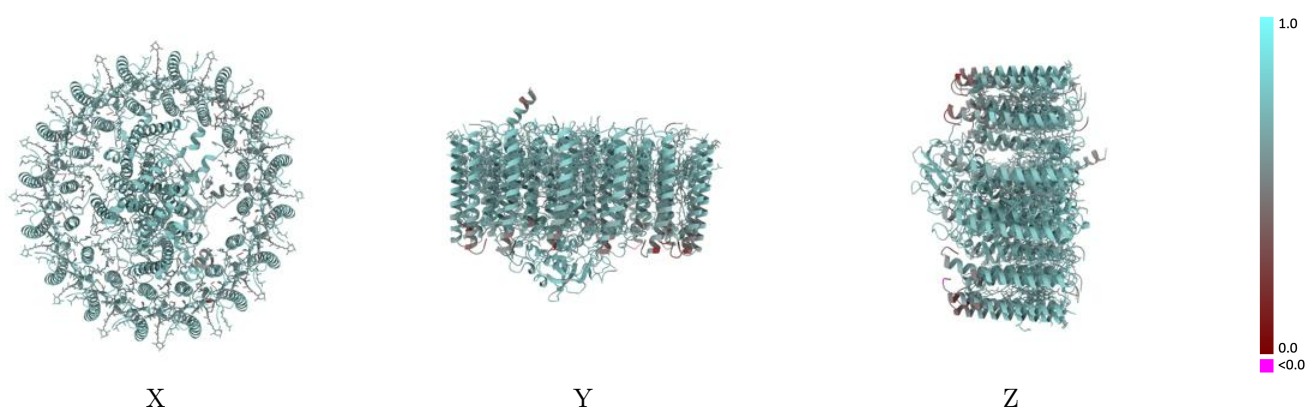
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-63370 and PDB model 9LTI. Per-residue inclusion information can be found in section 3 on page 18.

9.1 Map-model overlay [i](#)

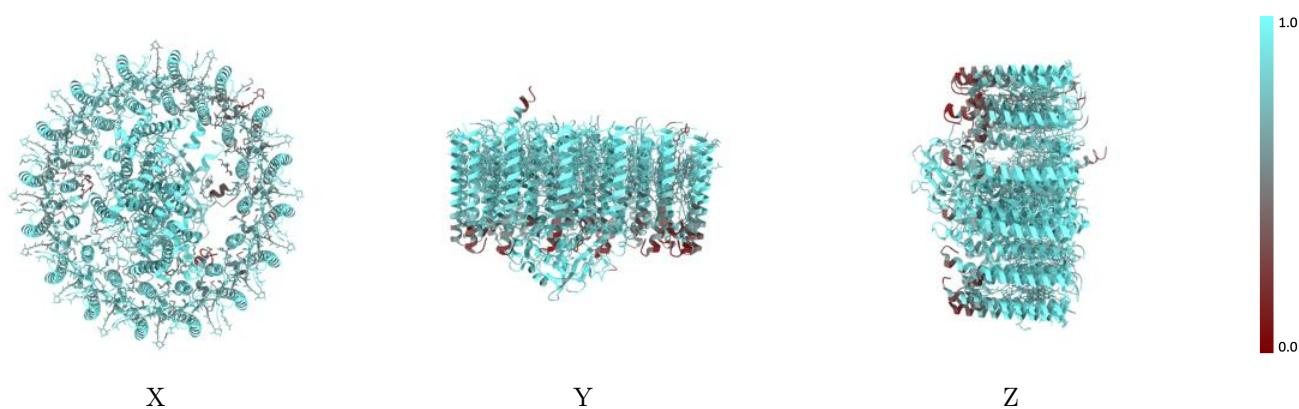
This section was not generated.

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



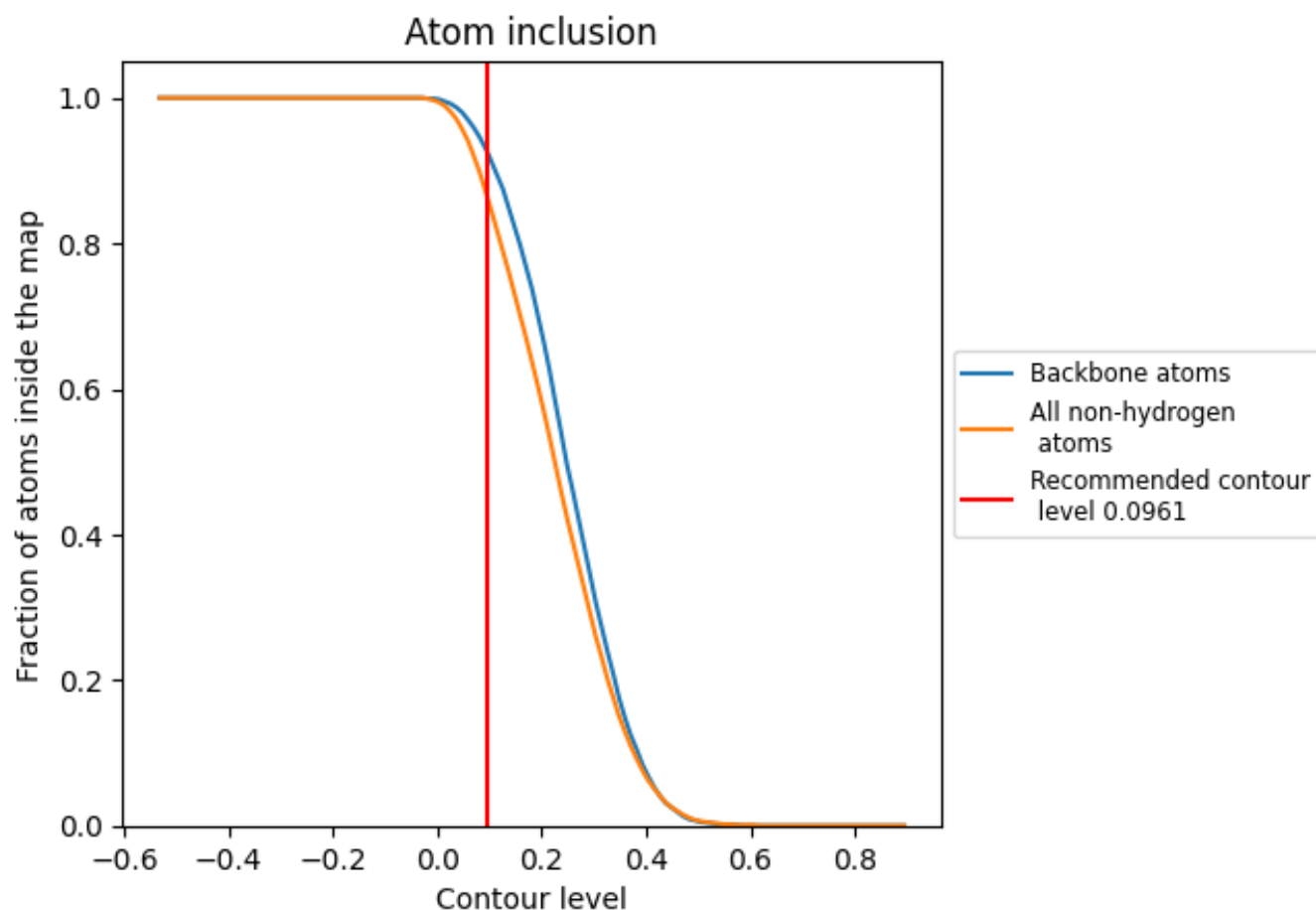
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 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 (0.0961).

9.4 Atom inclusion [i](#)



At the recommended contour level, 92% of all backbone atoms, 86% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.0961) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8620	 0.6640
A	 0.9270	 0.6780
B	 0.9130	 0.6790
C	 0.9070	 0.6680
D	 0.9100	 0.6810
E	 0.8480	 0.6590
F	 0.7520	 0.6360
G	 0.8710	 0.6620
H	 0.8940	 0.6880
I	 0.9090	 0.6730
J	 0.8420	 0.6580
K	 0.7320	 0.6170
L	 0.9590	 0.7080
M	 0.9540	 0.7100
N	 0.8180	 0.6430
O	 0.7910	 0.6400
P	 0.8230	 0.6310
Q	 0.9040	 0.6670
R	 0.7590	 0.6230
S	 0.8200	 0.6440
T	 0.6500	 0.6150
a	 0.8670	 0.6570
b	 0.8550	 0.6530
c	 0.8720	 0.6620
d	 0.8710	 0.6730
e	 0.7680	 0.6210
f	 0.7730	 0.6240
g	 0.8100	 0.6070
i	 0.8700	 0.6610
j	 0.7680	 0.6350
k	 0.6790	 0.5950
n	 0.7730	 0.6210
o	 0.8080	 0.6320
p	 0.7830	 0.6290
q	 0.8690	 0.6620



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Chain	Atom inclusion	Q-score
r	 0.6780	 0.5940
s	 0.8150	 0.6370