



## Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 04:38 PM UTC

PDB ID : 9LT4 / pdb\_00009lt4  
EMDB ID : EMD-63365  
Title : Cryo-EM structure of light harvesting complex 2 from Ery. sanguineus  
Authors : Yue, X.-Y.; Wang, G.-L.; Yu, L.-J.  
Deposited on : 2025-02-05  
Resolution : 2.74 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](mailto: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>.

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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

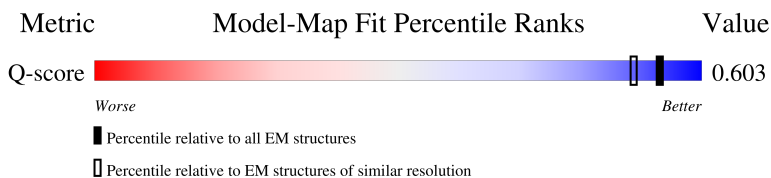
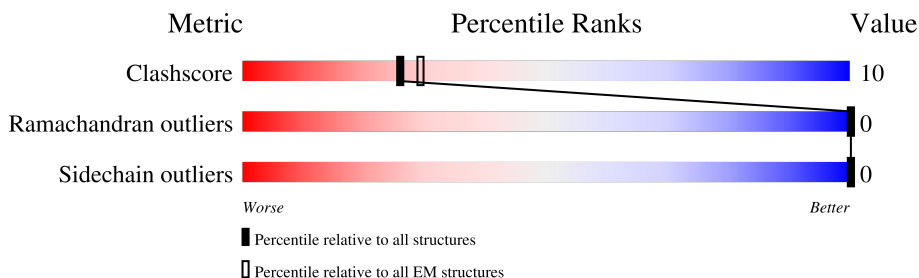
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 2.74 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	10492 ( 2.24 - 3.24 )

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  $\geq 3$ , 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	67	 52% 19% 28%
1	B	67	 55% 16% 28%
1	C	67	 57% 15% 28%
1	D	67	 54% 18% 28%

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Mol	Chain	Length	Quality of chain
1	E	67	
1	F	67	
1	G	67	
1	H	67	
1	I	67	
2	a	51	
2	b	51	
2	c	51	
2	d	51	
2	e	51	
2	f	51	
2	g	51	
2	h	51	
2	i	51	

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 9009 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 protein B-800/814 alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	48	Total	C	N	O	S	0	0
			389	265	57	65	2		
1	I	48	Total	C	N	O	S	0	0
			389	265	57	65	2		
1	H	48	Total	C	N	O	S	0	0
			389	265	57	65	2		
1	G	48	Total	C	N	O	S	0	0
			389	265	57	65	2		
1	F	48	Total	C	N	O	S	0	0
			389	265	57	65	2		
1	E	48	Total	C	N	O	S	0	0
			389	265	57	65	2		
1	D	48	Total	C	N	O	S	0	0
			389	265	57	65	2		
1	C	48	Total	C	N	O	S	0	0
			389	265	57	65	2		
1	B	48	Total	C	N	O	S	0	0
			389	265	57	65	2		

- Molecule 2 is a protein called Light-harvesting protein B-800-850 beta chain.

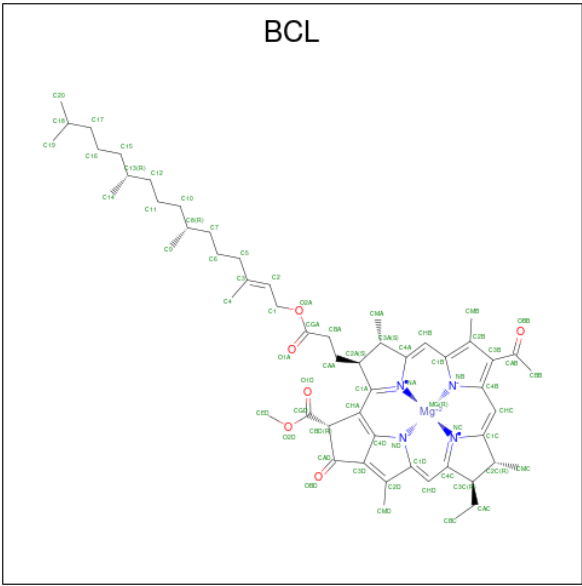
Mol	Chain	Residues	Atoms				AltConf	Trace
2	i	47	Total	C	N	O	0	0
			370	247	59	64		
2	a	47	Total	C	N	O	0	0
			370	247	59	64		
2	h	47	Total	C	N	O	0	0
			370	247	59	64		
2	g	47	Total	C	N	O	0	0
			370	247	59	64		
2	f	47	Total	C	N	O	0	0
			370	247	59	64		
2	e	47	Total	C	N	O	0	0
			370	247	59	64		

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	d	47	Total	C	N	O	0	0
			370	247	59	64		
2	c	47	Total	C	N	O	0	0
			370	247	59	64		
2	b	47	Total	C	N	O	0	0
			370	247	59	64		

- Molecule 3 is BACTERIOCHLOROPHYLL A (CCD ID: BCL) (formula: C<sub>55</sub>H<sub>74</sub>MgN<sub>4</sub>O<sub>6</sub>) (labeled as "Ligand of Interest" by depositor).



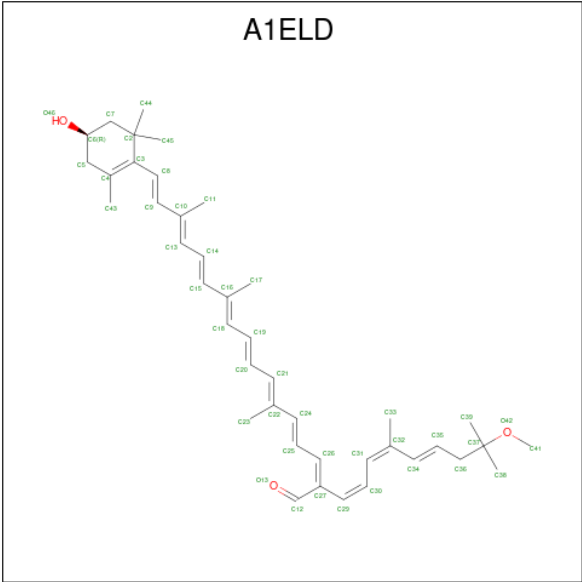
Mol	Chain	Residues	Atoms				AltConf
3	A	1	Total	C	Mg	N	O
			66	55	1	4	6
3	i	1	Total	C	Mg	N	O
			66	55	1	4	6
3	a	1	Total	C	Mg	N	O
			66	55	1	4	6
3	a	1	Total	C	Mg	N	O
			66	55	1	4	6
3	I	1	Total	C	Mg	N	O
			66	55	1	4	6
3	I	1	Total	C	Mg	N	O
			66	55	1	4	6
3	H	1	Total	C	Mg	N	O
			66	55	1	4	6
3	H	1	Total	C	Mg	N	O
			66	55	1	4	6

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Mol	Chain	Residues	Atoms					AltConf
3	G	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	F	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	F	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	E	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	E	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	D	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	C	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	C	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	B	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	h	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	g	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	g	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	f	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	e	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	d	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	d	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	c	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	b	1	Total 66	C 55	Mg 1	N 4	O 6	0
3	b	1	Total 66	C 55	Mg 1	N 4	O 6	0

- Molecule 4 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: C<sub>41</sub>H<sub>56</sub>O<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).



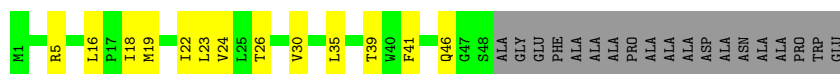
Mol	Chain	Residues	Atoms			AltConf
4	A	1	Total	C	O	0
			44	41	3	
4	i	1	Total	C	O	0
			44	41	3	
4	a	1	Total	C	O	0
			44	41	3	
4	D	1	Total	C	O	0
			44	41	3	
4	h	1	Total	C	O	0
			44	41	3	
4	g	1	Total	C	O	0
			44	41	3	
4	f	1	Total	C	O	0
			44	41	3	
4	d	1	Total	C	O	0
			44	41	3	
4	c	1	Total	C	O	0
			44	41	3	

### 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 protein B-800/814 alpha chain

Chain A: 



- Molecule 1: Light-harvesting protein B-800/814 alpha chain

Chain I: 



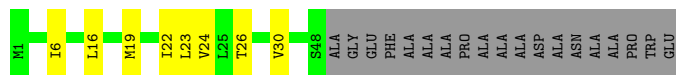
- Molecule 1: Light-harvesting protein B-800/814 alpha chain

Chain H: 



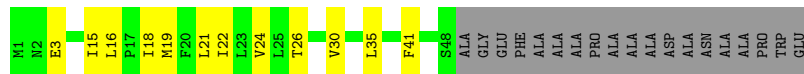
- Molecule 1: Light-harvesting protein B-800/814 alpha chain

Chain G: 



- Molecule 1: Light-harvesting protein B-800/814 alpha chain

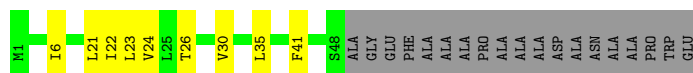
Chain F: 



- Molecule 1: Light-harvesting protein B-800/814 alpha chain

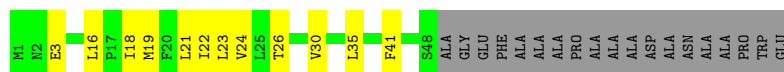


Chain E:  58% 13% 28%



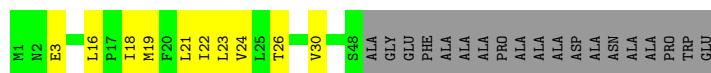
- Molecule 1: Light-harvesting protein B-800/814 alpha chain

Chain D:  54% 18% 28%



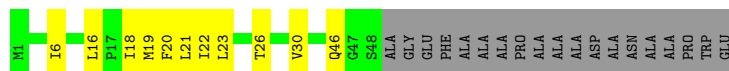
- Molecule 1: Light-harvesting protein B-800/814 alpha chain

Chain C:  57% 15% 28%



- Molecule 1: Light-harvesting protein B-800/814 alpha chain

Chain B:  55% 16% 28%



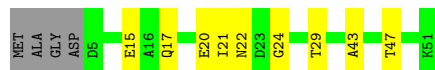
- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain i:  73% 20% 8%



- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain a:  75% 18% 8%



- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain h:  69% 24% 8%



- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain g:  73% 20% 8%




- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain f:  75% 18% 8%




- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain e:  76% 16% 8%




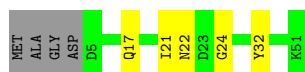
- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain d:  76% 16% 8%



- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain c:  82% 10% 8%



- Molecule 2: Light-harvesting protein B-800-850 beta chain

Chain b:  76% 16% 8%



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	119391	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	0.912	Depositor
Minimum map value	-0.511	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.028	Depositor
Recommended contour level	0.1	Depositor
Map size ( $\text{\AA}$ )	207.36, 207.36, 207.36	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	0.81, 0.81, 0.81	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: A1ELD, BCL

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	0.18	0/400	0.42	0/545
1	B	0.14	0/400	0.36	0/545
1	C	0.13	0/400	0.35	0/545
1	D	0.13	0/400	0.36	0/545
1	E	0.14	0/400	0.36	0/545
1	F	0.14	0/400	0.35	0/545
1	G	0.14	0/400	0.37	0/545
1	H	0.14	0/400	0.38	0/545
1	I	0.14	0/400	0.36	0/545
2	a	0.18	0/380	0.40	0/519
2	b	0.14	0/380	0.42	0/519
2	c	0.13	0/380	0.40	0/519
2	d	0.17	0/380	0.42	0/519
2	e	0.17	0/380	0.44	0/519
2	f	0.17	0/380	0.44	0/519
2	g	0.16	0/380	0.43	0/519
2	h	0.15	0/380	0.41	0/519
2	i	0.15	0/380	0.37	0/519
All	All	0.15	0/7020	0.39	0/9576

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	389	0	399	12	0
1	B	389	0	399	10	0
1	C	389	0	399	11	0
1	D	389	0	399	12	0
1	E	389	0	399	9	0
1	F	389	0	399	12	0
1	G	389	0	399	7	0
1	H	389	0	399	13	0
1	I	389	0	399	14	0
2	a	370	0	378	8	0
2	b	370	0	378	6	0
2	c	370	0	378	5	0
2	d	370	0	378	7	0
2	e	370	0	378	6	0
2	f	370	0	378	8	0
2	g	370	0	378	8	0
2	h	370	0	378	9	0
2	i	370	0	378	10	0
3	A	66	0	72	5	0
3	B	66	0	72	5	0
3	C	132	0	144	6	0
3	D	66	0	72	3	0
3	E	132	0	144	10	0
3	F	132	0	144	6	0
3	G	66	0	72	4	0
3	H	132	0	144	6	0
3	I	132	0	144	8	0
3	a	132	0	144	4	0
3	b	132	0	144	7	0
3	c	66	0	72	3	0
3	d	132	0	144	6	0
3	e	66	0	72	3	0
3	f	66	0	72	3	0
3	g	132	0	144	5	0
3	h	66	0	72	3	0
3	i	66	0	72	4	0
4	A	44	0	0	0	0
4	D	44	0	0	1	0
4	a	44	0	0	2	0
4	c	44	0	0	1	0
4	d	44	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	f	44	0	0	1	0
4	g	44	0	0	1	0
4	h	44	0	0	1	0
4	i	44	0	0	2	0
All	All	9009	0	8937	183	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 10.

All (183) 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)
2:e:47:THR:O	2:e:51:LYS:NZ	2.28	0.67
2:f:43:ALA:O	2:f:47:THR:OG1	2.13	0.64
2:b:43:ALA:O	2:b:47:THR:OG1	2.12	0.63
2:i:29:THR:HG21	3:i:101:BCL:H3A	1.79	0.63
2:d:43:ALA:O	2:d:47:THR:OG1	2.14	0.63
1:H:23:LEU:HD12	3:h:101:BCL:HED1	1.78	0.63
1:E:23:LEU:HD12	3:e:101:BCL:HED1	1.81	0.63
2:h:43:ALA:O	2:h:47:THR:OG1	2.15	0.63
1:B:23:LEU:HD12	3:b:101:BCL:HED1	1.81	0.62
1:D:23:LEU:HD12	3:d:101:BCL:HED1	1.79	0.62
2:g:43:ALA:O	2:g:47:THR:OG1	2.15	0.62
1:G:23:LEU:HD12	3:g:101:BCL:HED1	1.81	0.62
1:C:23:LEU:HD12	3:c:101:BCL:HED1	1.82	0.61
2:a:29:THR:HG21	3:a:101:BCL:H3A	1.83	0.60
3:i:101:BCL:HED1	1:I:23:LEU:HD12	1.82	0.60
1:A:5:ARG:NH1	2:a:15:GLU:OE2	2.35	0.59
1:F:24:VAL:HG21	1:E:22:ILE:HD13	1.85	0.59
2:f:20:GLU:OE2	4:f:102:A1ELD:O46	2.20	0.58
1:H:5:ARG:NH1	2:h:15:GLU:OE2	2.37	0.58
1:E:21:LEU:HD23	1:D:22:ILE:HD11	1.85	0.58
1:F:16:LEU:HD23	1:F:19:MET:HE2	1.86	0.58
3:H:102:BCL:H142	3:h:101:BCL:H91	1.86	0.58
1:F:21:LEU:HD23	1:E:22:ILE:HD11	1.85	0.57
1:A:18:ILE:O	1:A:22:ILE:HD12	2.05	0.57
2:h:47:THR:O	2:h:51:LYS:NZ	2.31	0.57
3:d:102:BCL:H18	3:d:102:BCL:HBC1	1.85	0.57
1:I:16:LEU:HD23	1:I:19:MET:HE2	1.89	0.55
1:I:46:GLN:HA	1:H:40:TRP:HE1	1.71	0.55
1:F:3:GLU:HG2	2:f:22:ASN:HD21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:g:101:BCL:H91	3:g:102:BCL:H142	1.88	0.55
1:I:26:THR:O	1:I:30:VAL:HG23	2.07	0.55
2:b:47:THR:O	2:b:51:LYS:NZ	2.34	0.55
1:A:23:LEU:HD12	3:a:102:BCL:HED1	1.88	0.54
3:F:102:BCL:H18	3:F:102:BCL:HBC1	1.89	0.54
3:D:102:BCL:HMB3	3:c:101:BCL:HMA3	1.90	0.54
1:C:16:LEU:HD13	1:B:6:ILE:HD11	1.89	0.54
1:C:24:VAL:HG11	1:B:22:ILE:HG23	1.89	0.54
1:D:3:GLU:HG2	2:d:22:ASN:HD21	1.73	0.53
3:d:101:BCL:H91	3:d:102:BCL:H142	1.90	0.53
3:A:101:BCL:HMB3	3:i:101:BCL:HMA3	1.90	0.53
1:D:26:THR:O	1:D:30:VAL:HG23	2.09	0.53
1:E:26:THR:O	1:E:30:VAL:HG23	2.09	0.53
1:A:24:VAL:HG11	1:I:22:ILE:HG23	1.90	0.53
2:f:25:LEU:O	2:f:29:THR:OG1	2.26	0.53
1:A:39:THR:OG1	1:B:46:GLN:NE2	2.37	0.52
1:C:16:LEU:HD23	1:C:19:MET:HE2	1.91	0.52
2:a:43:ALA:O	2:a:47:THR:OG1	2.19	0.52
1:A:22:ILE:HD13	1:B:20:PHE:HE2	1.74	0.52
3:F:102:BCL:H142	3:f:101:BCL:H91	1.91	0.52
1:E:24:VAL:HG11	1:D:22:ILE:HG23	1.92	0.52
3:H:102:BCL:H18	3:H:102:BCL:HBC1	1.92	0.52
3:E:101:BCL:HMB3	3:d:101:BCL:HMA3	1.92	0.52
1:D:21:LEU:HD23	1:C:22:ILE:HD11	1.91	0.52
1:D:16:LEU:HD23	1:D:19:MET:HE2	1.92	0.52
3:a:102:BCL:HMA3	3:B:101:BCL:HMB3	1.91	0.52
1:C:26:THR:O	1:C:30:VAL:HG23	2.10	0.52
2:i:43:ALA:O	2:i:47:THR:OG1	2.15	0.51
3:H:101:BCL:HMB3	3:g:101:BCL:HMA3	1.93	0.51
1:H:16:LEU:HD23	1:H:19:MET:HE2	1.92	0.51
3:F:101:BCL:HMB3	3:e:101:BCL:HMA3	1.92	0.51
1:H:16:LEU:HD13	1:G:6:ILE:HD11	1.93	0.50
1:B:26:THR:O	1:B:30:VAL:HG23	2.11	0.50
3:b:101:BCL:H91	3:b:102:BCL:H142	1.93	0.50
1:H:26:THR:O	1:H:30:VAL:HG23	2.12	0.50
3:G:101:BCL:HMB3	3:f:101:BCL:HMA3	1.93	0.50
3:C:101:BCL:HMB3	3:b:101:BCL:HMA3	1.93	0.50
1:F:26:THR:O	1:F:30:VAL:HG23	2.12	0.50
1:C:21:LEU:HD23	1:B:22:ILE:HD11	1.94	0.50
1:D:24:VAL:HG11	1:C:22:ILE:HG23	1.93	0.50
1:F:3:GLU:HG2	2:f:22:ASN:ND2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:16:LEU:HD23	1:G:19:MET:HE2	1.94	0.49
2:g:24:GLY:HA2	4:g:103:A1ELD:C45	2.42	0.49
1:A:26:THR:O	1:A:30:VAL:HG23	2.13	0.49
1:B:18:ILE:O	1:B:22:ILE:HG12	2.13	0.49
2:a:17:GLN:O	2:a:21:ILE:HG13	2.13	0.49
3:g:102:BCL:HBC1	3:g:102:BCL:H18	1.94	0.49
3:G:101:BCL:O1A	2:g:32:TYR:OH	2.28	0.49
1:G:26:THR:O	1:G:30:VAL:HG23	2.12	0.48
2:c:24:GLY:HA2	4:c:102:A1ELD:C45	2.43	0.48
2:d:24:GLY:HA2	4:d:103:A1ELD:C45	2.43	0.48
3:C:101:BCL:H2	3:C:101:BCL:H62	1.55	0.48
1:F:16:LEU:HD13	1:E:6:ILE:HD11	1.96	0.48
4:D:101:A1ELD:C45	2:e:24:GLY:HA2	2.44	0.48
2:e:43:ALA:O	2:e:47:THR:OG1	2.19	0.48
2:a:29:THR:HG22	4:a:103:A1ELD:C20	2.44	0.48
2:i:32:TYR:OH	3:I:102:BCL:O1A	2.30	0.47
3:E:101:BCL:H13	1:D:19:MET:HE3	1.96	0.47
1:D:18:ILE:O	1:D:22:ILE:HG12	2.13	0.47
3:E:102:BCL:H18	3:E:102:BCL:HBC1	1.96	0.47
2:h:24:GLY:HA2	4:h:102:A1ELD:C45	2.45	0.47
3:A:101:BCL:H13	1:I:19:MET:HE3	1.97	0.47
2:i:29:THR:HG22	4:i:102:A1ELD:C20	2.45	0.47
3:G:101:BCL:H2	3:G:101:BCL:H62	1.54	0.47
1:B:16:LEU:HD23	1:B:19:MET:HE2	1.97	0.47
3:G:101:BCL:H141	2:f:25:LEU:HD22	1.97	0.47
3:A:101:BCL:H62	3:A:101:BCL:H2	1.51	0.46
3:I:102:BCL:H141	2:h:25:LEU:HD22	1.97	0.46
2:i:24:GLY:HA2	4:i:102:A1ELD:C45	2.45	0.46
1:I:24:VAL:HG11	1:H:22:ILE:HG23	1.96	0.46
3:E:102:BCL:H162	3:E:102:BCL:H141	1.73	0.46
1:I:34:ILE:HG21	3:I:102:BCL:HBC1	1.98	0.46
1:D:3:GLU:HG2	2:d:22:ASN:ND2	2.30	0.46
2:i:22:ASN:O	2:i:26:LYS:HG3	2.16	0.46
3:C:101:BCL:O1A	2:c:32:TYR:OH	2.30	0.46
3:B:101:BCL:O1A	2:b:32:TYR:OH	2.28	0.46
3:C:102:BCL:H142	3:c:101:BCL:H91	1.97	0.46
3:b:102:BCL:H18	3:b:102:BCL:HBC1	1.98	0.46
3:D:102:BCL:O1A	2:d:32:TYR:OH	2.27	0.46
1:A:16:LEU:HD23	1:A:19:MET:HE2	1.98	0.45
2:i:22:ASN:HD21	1:I:3:GLU:HG2	1.81	0.45
3:a:101:BCL:H41	3:a:101:BCL:H62	1.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:15:ILE:O	1:F:19:MET:HG3	2.16	0.45
1:C:3:GLU:HG2	2:c:22:ASN:HD21	1.80	0.45
2:f:17:GLN:O	2:f:21:ILE:HG13	2.17	0.45
3:F:101:BCL:H2	3:F:101:BCL:H62	1.55	0.45
3:b:101:BCL:H192	3:b:101:BCL:H162	1.74	0.45
3:b:102:BCL:H62	3:b:102:BCL:H41	1.78	0.45
2:a:24:GLY:HA2	4:a:103:A1ELD:C45	2.47	0.44
3:C:101:BCL:H111	3:C:101:BCL:H152	1.79	0.44
2:g:49:TRP:CE2	2:g:50:LEU:HG	2.52	0.44
1:G:24:VAL:HG11	1:F:22:ILE:HD12	1.99	0.44
3:E:102:BCL:H41	3:E:102:BCL:H62	1.64	0.44
3:E:101:BCL:H141	2:d:25:LEU:HD22	1.98	0.44
1:C:3:GLU:HG2	2:c:22:ASN:ND2	2.32	0.44
2:i:17:GLN:O	2:i:21:ILE:HG13	2.17	0.44
1:A:46:GLN:NE2	1:I:39:THR:OG1	2.38	0.44
2:a:17:GLN:O	2:a:20:GLU:HG3	2.18	0.44
1:I:16:LEU:HD13	1:H:6:ILE:HD11	2.00	0.44
3:I:102:BCL:H13	1:H:19:MET:HE3	1.99	0.44
3:H:101:BCL:H62	3:H:101:BCL:H2	1.53	0.44
3:I:102:BCL:H2	3:I:102:BCL:H62	1.53	0.44
1:A:35:LEU:HD12	1:A:41:PHE:O	2.18	0.44
1:I:24:VAL:HG11	1:H:22:ILE:HD12	2.00	0.44
3:d:102:BCL:H62	3:d:102:BCL:H41	1.77	0.44
1:H:24:VAL:HG11	1:G:22:ILE:HG23	1.99	0.43
3:D:102:BCL:H2	3:D:102:BCL:H62	1.51	0.43
3:h:101:BCL:H152	3:h:101:BCL:H111	1.88	0.43
3:E:101:BCL:H2	3:E:101:BCL:H62	1.53	0.43
3:B:101:BCL:H152	3:B:101:BCL:H111	1.78	0.43
2:h:17:GLN:O	2:h:21:ILE:HG13	2.17	0.43
3:f:101:BCL:H192	3:f:101:BCL:H162	1.73	0.43
2:i:22:ASN:ND2	1:I:3:GLU:HG2	2.34	0.43
1:F:18:ILE:O	1:F:22:ILE:HG12	2.18	0.43
2:b:17:GLN:O	2:b:21:ILE:HG13	2.18	0.43
3:i:101:BCL:H152	3:i:101:BCL:H111	1.85	0.43
3:I:101:BCL:H62	3:I:101:BCL:H41	1.85	0.43
2:g:22:ASN:C	2:g:22:ASN:HD22	2.27	0.43
3:B:101:BCL:H62	3:B:101:BCL:H2	1.53	0.43
2:h:25:LEU:O	2:h:29:THR:OG1	2.30	0.43
3:A:101:BCL:H141	2:i:25:LEU:HD22	2.00	0.42
2:e:22:ASN:C	2:e:22:ASN:HD22	2.26	0.42
2:b:22:ASN:C	2:b:22:ASN:HD22	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:101:BCL:O1A	2:h:32:TYR:OH	2.27	0.42
2:g:17:GLN:O	2:g:21:ILE:HG13	2.19	0.42
3:b:101:BCL:H141	3:b:101:BCL:H161	1.71	0.42
2:h:49:TRP:CE2	2:h:50:LEU:HG	2.53	0.42
2:e:17:GLN:O	2:e:21:ILE:HG13	2.19	0.42
3:E:102:BCL:H142	3:e:101:BCL:H91	2.02	0.42
1:E:35:LEU:HD12	1:E:41:PHE:O	2.20	0.42
3:g:102:BCL:H62	3:g:102:BCL:H41	1.86	0.42
2:a:22:ASN:HD22	2:a:22:ASN:C	2.27	0.42
1:C:18:ILE:O	1:C:22:ILE:HG12	2.20	0.42
3:E:101:BCL:O1A	2:e:32:TYR:OH	2.29	0.42
1:I:18:ILE:O	1:I:22:ILE:HG12	2.20	0.41
1:D:35:LEU:HD12	1:D:41:PHE:O	2.20	0.41
2:c:17:GLN:O	2:c:21:ILE:HG13	2.20	0.41
2:g:47:THR:O	2:g:51:LYS:NZ	2.34	0.41
3:A:101:BCL:H152	3:A:101:BCL:H111	1.82	0.41
1:F:35:LEU:HD12	1:F:41:PHE:O	2.21	0.41
2:g:51:LYS:HE2	2:g:51:LYS:HB2	1.82	0.41
3:d:101:BCL:H152	3:d:101:BCL:H111	1.88	0.41
1:A:19:MET:HE3	3:B:101:BCL:H13	2.01	0.41
1:H:35:LEU:HD12	1:H:41:PHE:O	2.21	0.41
1:F:24:VAL:HG21	1:E:22:ILE:HG21	2.03	0.41
3:F:102:BCL:H62	3:F:102:BCL:H41	1.83	0.41
3:i:101:BCL:H62	3:I:101:BCL:O2A	2.21	0.41
3:F:101:BCL:O1A	2:f:32:TYR:OH	2.29	0.40
1:A:22:ILE:HD11	1:B:21:LEU:HD23	2.03	0.40
3:H:102:BCL:H41	3:H:102:BCL:H62	1.82	0.40
3:E:101:BCL:H111	3:E:101:BCL:H152	1.78	0.40
3:C:101:BCL:H141	2:b:25:LEU:HD22	2.03	0.40
1:H:21:LEU:HD23	1:G:22:ILE:HD11	2.02	0.40
2:d:17:GLN:O	2:d:21:ILE:HG13	2.21	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	46/67 (69%)	44 (96%)	2 (4%)	0	100	100
1	B	46/67 (69%)	45 (98%)	1 (2%)	0	100	100
1	C	46/67 (69%)	45 (98%)	1 (2%)	0	100	100
1	D	46/67 (69%)	45 (98%)	1 (2%)	0	100	100
1	E	46/67 (69%)	45 (98%)	1 (2%)	0	100	100
1	F	46/67 (69%)	45 (98%)	1 (2%)	0	100	100
1	G	46/67 (69%)	45 (98%)	1 (2%)	0	100	100
1	H	46/67 (69%)	45 (98%)	1 (2%)	0	100	100
1	I	46/67 (69%)	45 (98%)	1 (2%)	0	100	100
2	a	45/51 (88%)	44 (98%)	1 (2%)	0	100	100
2	b	45/51 (88%)	45 (100%)	0	0	100	100
2	c	45/51 (88%)	45 (100%)	0	0	100	100
2	d	45/51 (88%)	44 (98%)	1 (2%)	0	100	100
2	e	45/51 (88%)	45 (100%)	0	0	100	100
2	f	45/51 (88%)	45 (100%)	0	0	100	100
2	g	45/51 (88%)	45 (100%)	0	0	100	100
2	h	45/51 (88%)	45 (100%)	0	0	100	100
2	i	45/51 (88%)	44 (98%)	1 (2%)	0	100	100
All	All	819/1062 (77%)	806 (98%)	13 (2%)	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	44/52 (85%)	44 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	44/52 (85%)	44 (100%)	0	100	100
1	C	44/52 (85%)	44 (100%)	0	100	100
1	D	44/52 (85%)	44 (100%)	0	100	100
1	E	44/52 (85%)	44 (100%)	0	100	100
1	F	44/52 (85%)	44 (100%)	0	100	100
1	G	44/52 (85%)	44 (100%)	0	100	100
1	H	44/52 (85%)	44 (100%)	0	100	100
1	I	44/52 (85%)	44 (100%)	0	100	100
2	a	37/39 (95%)	37 (100%)	0	100	100
2	b	37/39 (95%)	37 (100%)	0	100	100
2	c	37/39 (95%)	37 (100%)	0	100	100
2	d	37/39 (95%)	37 (100%)	0	100	100
2	e	37/39 (95%)	37 (100%)	0	100	100
2	f	37/39 (95%)	37 (100%)	0	100	100
2	g	37/39 (95%)	37 (100%)	0	100	100
2	h	37/39 (95%)	37 (100%)	0	100	100
2	i	37/39 (95%)	37 (100%)	0	100	100
All	All	729/819 (89%)	729 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	37	ASN
1	H	37	ASN
1	F	37	ASN
1	C	37	ASN
1	B	37	ASN
2	h	22	ASN
2	f	22	ASN
2	d	22	ASN
2	c	22	ASN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry ⓘ

36 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
3	BCL	h	101	2	69,74,74	1.78	15 (21%)	79,115,115	2.20	23 (29%)
3	BCL	H	102	-	69,74,74	1.84	16 (23%)	79,115,115	2.16	22 (27%)
3	BCL	g	102	-	69,74,74	1.83	16 (23%)	79,115,115	2.15	23 (29%)
3	BCL	E	102	-	69,74,74	1.83	16 (23%)	79,115,115	2.14	23 (29%)
4	A1ELD	f	102	-	44,44,44	1.35	8 (18%)	51,58,58	2.49	16 (31%)
3	BCL	g	101	2	69,74,74	1.79	15 (21%)	79,115,115	2.21	23 (29%)
3	BCL	H	101	1	69,74,74	1.81	16 (23%)	79,115,115	2.17	21 (26%)
3	BCL	I	102	1	69,74,74	1.81	16 (23%)	79,115,115	2.18	23 (29%)
3	BCL	b	102	-	69,74,74	1.80	16 (23%)	79,115,115	2.20	22 (27%)
3	BCL	B	101	1	69,74,74	1.81	16 (23%)	79,115,115	2.18	22 (27%)
4	A1ELD	i	102	-	44,44,44	1.36	9 (20%)	51,58,58	2.38	14 (27%)
3	BCL	D	102	1	69,74,74	1.81	16 (23%)	79,115,115	2.18	21 (26%)
3	BCL	G	101	1	69,74,74	1.81	16 (23%)	79,115,115	2.17	21 (26%)
4	A1ELD	A	102	-	44,44,44	1.35	9 (20%)	51,58,58	2.40	15 (29%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	BCL	d	102	-	69,74,74	1.81	16 (23%)	79,115,115	2.21	23 (29%)
4	A1ELD	h	102	-	44,44,44	1.36	9 (20%)	51,58,58	2.31	14 (27%)
4	A1ELD	c	102	-	44,44,44	1.36	9 (20%)	51,58,58	2.35	14 (27%)
3	BCL	E	101	1	69,74,74	1.81	16 (23%)	79,115,115	2.18	21 (26%)
3	BCL	d	101	2	69,74,74	1.78	15 (21%)	79,115,115	2.20	24 (30%)
3	BCL	b	101	2	69,74,74	1.79	15 (21%)	79,115,115	2.21	23 (29%)
3	BCL	i	101	2	69,74,74	1.79	15 (21%)	79,115,115	2.22	23 (29%)
4	A1ELD	D	101	-	44,44,44	1.36	9 (20%)	51,58,58	2.31	13 (25%)
4	A1ELD	a	103	-	44,44,44	1.36	9 (20%)	51,58,58	2.35	13 (25%)
4	A1ELD	g	103	-	44,44,44	1.36	9 (20%)	51,58,58	2.37	14 (27%)
3	BCL	C	101	1	69,74,74	1.81	16 (23%)	79,115,115	2.16	22 (27%)
3	BCL	C	102	-	69,74,74	1.84	16 (23%)	79,115,115	2.16	23 (29%)
3	BCL	I	101	-	69,74,74	1.84	17 (24%)	79,115,115	2.15	24 (30%)
3	BCL	F	101	1	69,74,74	1.81	16 (23%)	79,115,115	2.18	21 (26%)
3	BCL	f	101	2	69,74,74	1.79	15 (21%)	79,115,115	2.20	24 (30%)
3	BCL	c	101	2	69,74,74	1.79	15 (21%)	79,115,115	2.21	23 (29%)
3	BCL	a	101	-	69,74,74	1.81	15 (21%)	79,115,115	2.20	22 (27%)
3	BCL	F	102	-	69,74,74	1.84	16 (23%)	79,115,115	2.17	22 (27%)
4	A1ELD	d	103	-	44,44,44	1.36	9 (20%)	51,58,58	2.34	14 (27%)
3	BCL	a	102	2	69,74,74	1.78	15 (21%)	79,115,115	2.21	23 (29%)
3	BCL	A	101	1	69,74,74	1.80	16 (23%)	79,115,115	2.19	22 (27%)
3	BCL	e	101	2	69,74,74	1.78	15 (21%)	79,115,115	2.21	23 (29%)

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
3	BCL	h	101	2	-	15/41/137/137	-
3	BCL	H	102	-	-	19/41/137/137	-
3	BCL	g	102	-	-	16/41/137/137	-
3	BCL	E	102	-	-	14/41/137/137	-
4	A1ELD	f	102	-	-	8/42/61/61	0/1/1/1
3	BCL	g	101	2	-	15/41/137/137	-
3	BCL	H	101	1	-	12/41/137/137	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BCL	I	102	1	-	8/41/137/137	-
3	BCL	b	102	-	-	20/41/137/137	-
3	BCL	B	101	1	-	11/41/137/137	-
4	A1ELD	i	102	-	-	8/42/61/61	0/1/1/1
3	BCL	D	102	1	-	12/41/137/137	-
3	BCL	G	101	1	-	12/41/137/137	-
4	A1ELD	A	102	-	-	5/42/61/61	0/1/1/1
3	BCL	d	102	-	-	21/41/137/137	-
4	A1ELD	h	102	-	-	8/42/61/61	0/1/1/1
4	A1ELD	c	102	-	-	8/42/61/61	0/1/1/1
3	BCL	E	101	1	-	11/41/137/137	-
3	BCL	d	101	2	-	15/41/137/137	-
3	BCL	b	101	2	-	15/41/137/137	-
3	BCL	i	101	2	-	13/41/137/137	-
4	A1ELD	D	101	-	-	8/42/61/61	0/1/1/1
4	A1ELD	a	103	-	-	5/42/61/61	0/1/1/1
4	A1ELD	g	103	-	-	9/42/61/61	0/1/1/1
3	BCL	C	101	1	-	11/41/137/137	-
3	BCL	C	102	-	-	15/41/137/137	-
3	BCL	I	101	-	-	16/41/137/137	-
3	BCL	F	101	1	-	10/41/137/137	-
3	BCL	f	101	2	-	16/41/137/137	-
3	BCL	c	101	2	-	13/41/137/137	-
3	BCL	a	101	-	-	13/41/137/137	-
3	BCL	F	102	-	-	19/41/137/137	-
4	A1ELD	d	103	-	-	8/42/61/61	0/1/1/1
3	BCL	a	102	2	-	14/41/137/137	-
3	BCL	A	101	1	-	11/41/137/137	-
3	BCL	e	101	2	-	15/41/137/137	-

All (503) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	102	BCL	O2D-CGD	5.12	1.45	1.33
3	B	101	BCL	O2D-CGD	5.12	1.45	1.33
3	I	101	BCL	O2D-CGD	5.11	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	a	101	BCL	O2D-CGD	5.10	1.45	1.33
3	I	102	BCL	O2D-CGD	5.10	1.45	1.33
3	b	102	BCL	O2D-CGD	5.10	1.45	1.33
3	d	102	BCL	O2D-CGD	5.09	1.45	1.33
3	A	101	BCL	O2D-CGD	5.09	1.45	1.33
3	H	101	BCL	O2D-CGD	5.09	1.45	1.33
3	E	101	BCL	O2D-CGD	5.08	1.45	1.33
3	G	101	BCL	O2D-CGD	5.08	1.45	1.33
3	F	102	BCL	O2D-CGD	5.08	1.45	1.33
3	H	102	BCL	O2D-CGD	5.07	1.45	1.33
3	D	102	BCL	O2D-CGD	5.07	1.45	1.33
3	F	101	BCL	O2D-CGD	5.07	1.45	1.33
3	E	102	BCL	O2D-CGD	5.07	1.45	1.33
3	C	101	BCL	O2D-CGD	5.06	1.45	1.33
3	g	102	BCL	O2D-CGD	5.06	1.45	1.33
3	f	101	BCL	O2D-CGD	5.04	1.45	1.33
3	b	101	BCL	O2D-CGD	5.03	1.45	1.33
3	c	101	BCL	O2D-CGD	5.03	1.45	1.33
3	a	102	BCL	O2D-CGD	5.02	1.45	1.33
3	i	101	BCL	O2D-CGD	5.00	1.45	1.33
3	g	101	BCL	O2D-CGD	5.00	1.45	1.33
3	h	101	BCL	O2D-CGD	5.00	1.45	1.33
3	d	101	BCL	O2D-CGD	5.00	1.45	1.33
3	e	101	BCL	O2D-CGD	4.99	1.45	1.33
3	H	102	BCL	CHD-C1D	4.69	1.47	1.38
3	d	102	BCL	CHD-C1D	4.67	1.47	1.38
3	F	102	BCL	CHD-C1D	4.67	1.47	1.38
3	I	101	BCL	CHD-C1D	4.64	1.47	1.38
3	C	102	BCL	CHD-C1D	4.60	1.47	1.38
3	g	102	BCL	CHD-C1D	4.59	1.47	1.38
3	E	102	BCL	CHD-C1D	4.59	1.47	1.38
3	b	102	BCL	CHD-C1D	4.58	1.47	1.38
3	a	101	BCL	CHD-C1D	4.58	1.47	1.38
3	i	101	BCL	CHD-C1D	4.43	1.47	1.38
3	g	101	BCL	O2A-CGA	4.43	1.46	1.33
3	i	101	BCL	O2A-CGA	4.43	1.46	1.33
3	h	101	BCL	O2A-CGA	4.42	1.46	1.33
3	d	101	BCL	O2A-CGA	4.41	1.46	1.33
3	a	102	BCL	O2A-CGA	4.41	1.46	1.33
3	e	101	BCL	O2A-CGA	4.40	1.46	1.33
3	b	101	BCL	O2A-CGA	4.39	1.46	1.33
3	f	101	BCL	O2A-CGA	4.39	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	c	101	BCL	O2A-CGA	4.38	1.46	1.33
3	f	101	BCL	CHD-C1D	4.34	1.46	1.38
3	e	101	BCL	CHD-C1D	4.33	1.46	1.38
3	h	101	BCL	CHD-C1D	4.33	1.46	1.38
3	H	101	BCL	CHD-C1D	4.32	1.46	1.38
3	g	101	BCL	CHD-C1D	4.31	1.46	1.38
3	F	101	BCL	CHD-C1D	4.31	1.46	1.38
3	b	101	BCL	CHD-C1D	4.31	1.46	1.38
3	I	102	BCL	CHD-C1D	4.30	1.46	1.38
3	D	102	BCL	CHD-C1D	4.30	1.46	1.38
3	d	101	BCL	CHD-C1D	4.29	1.46	1.38
3	H	102	BCL	O2A-CGA	4.29	1.45	1.33
3	c	101	BCL	CHD-C1D	4.28	1.46	1.38
3	B	101	BCL	CHD-C1D	4.28	1.46	1.38
3	a	101	BCL	O2A-CGA	4.28	1.45	1.33
3	C	101	BCL	CHD-C1D	4.27	1.46	1.38
3	B	101	BCL	C3B-C4B	4.27	1.49	1.41
3	E	102	BCL	O2A-CGA	4.27	1.45	1.33
3	E	101	BCL	CHD-C1D	4.27	1.46	1.38
3	F	102	BCL	O2A-CGA	4.27	1.45	1.33
3	a	102	BCL	CHD-C1D	4.26	1.46	1.38
3	d	102	BCL	O2A-CGA	4.25	1.45	1.33
3	b	102	BCL	O2A-CGA	4.25	1.45	1.33
3	G	101	BCL	CHD-C1D	4.25	1.46	1.38
3	D	102	BCL	C3B-C4B	4.25	1.49	1.41
3	C	102	BCL	O2A-CGA	4.24	1.45	1.33
3	g	102	BCL	O2A-CGA	4.24	1.45	1.33
3	A	101	BCL	CHD-C1D	4.24	1.46	1.38
3	I	101	BCL	O2A-CGA	4.23	1.45	1.33
3	H	101	BCL	C3B-C4B	4.23	1.49	1.41
3	C	101	BCL	C3B-C4B	4.23	1.49	1.41
3	I	102	BCL	O2A-CGA	4.22	1.45	1.33
3	G	101	BCL	O2A-CGA	4.22	1.45	1.33
3	F	101	BCL	O2A-CGA	4.22	1.45	1.33
3	I	102	BCL	C3B-C4B	4.21	1.49	1.41
3	B	101	BCL	O2A-CGA	4.21	1.45	1.33
3	D	102	BCL	O2A-CGA	4.21	1.45	1.33
3	E	101	BCL	C3B-C4B	4.20	1.49	1.41
3	A	101	BCL	O2A-CGA	4.20	1.45	1.33
3	E	101	BCL	O2A-CGA	4.20	1.45	1.33
3	C	101	BCL	O2A-CGA	4.20	1.45	1.33
3	E	102	BCL	C3B-C4B	4.19	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	d	101	BCL	C3B-C4B	4.19	1.49	1.41
3	H	101	BCL	O2A-CGA	4.19	1.45	1.33
3	F	101	BCL	C3B-C4B	4.18	1.49	1.41
3	b	101	BCL	C3B-C4B	4.18	1.49	1.41
3	c	101	BCL	C3B-C4B	4.18	1.49	1.41
3	A	101	BCL	C3B-C4B	4.18	1.49	1.41
3	g	101	BCL	C3B-C4B	4.18	1.49	1.41
3	G	101	BCL	C3B-C4B	4.17	1.49	1.41
3	C	102	BCL	C3B-C4B	4.17	1.49	1.41
3	h	101	BCL	C3B-C4B	4.15	1.49	1.41
3	a	102	BCL	C3B-C4B	4.15	1.49	1.41
3	f	101	BCL	C3B-C4B	4.15	1.49	1.41
3	i	101	BCL	C3B-C4B	4.15	1.49	1.41
3	e	101	BCL	C3B-C4B	4.14	1.49	1.41
3	g	102	BCL	C3B-C4B	4.13	1.49	1.41
3	H	102	BCL	C3B-C4B	4.13	1.49	1.41
3	a	101	BCL	C3B-C4B	4.13	1.49	1.41
3	F	102	BCL	C3B-C4B	4.13	1.49	1.41
3	b	102	BCL	C3B-C4B	4.12	1.49	1.41
3	I	101	BCL	C3B-C4B	4.12	1.49	1.41
3	d	102	BCL	C3B-C4B	4.12	1.49	1.41
3	g	102	BCL	CHC-C4B	3.85	1.48	1.39
3	A	101	BCL	CHC-C4B	3.83	1.48	1.39
3	I	102	BCL	CHC-C4B	3.81	1.48	1.39
3	F	102	BCL	CHC-C4B	3.81	1.48	1.39
3	E	101	BCL	CHC-C4B	3.80	1.47	1.39
3	F	101	BCL	CHC-C4B	3.80	1.47	1.39
3	B	101	BCL	CHC-C4B	3.80	1.47	1.39
3	E	102	BCL	CHC-C4B	3.79	1.47	1.39
3	D	102	BCL	CHC-C4B	3.79	1.47	1.39
3	H	101	BCL	CHC-C4B	3.78	1.47	1.39
3	G	101	BCL	CHC-C4B	3.78	1.47	1.39
3	H	102	BCL	CHC-C4B	3.78	1.47	1.39
3	C	102	BCL	CHC-C4B	3.77	1.47	1.39
3	C	101	BCL	CHC-C4B	3.77	1.47	1.39
3	I	101	BCL	CHC-C4B	3.75	1.47	1.39
3	a	101	BCL	CHC-C4B	3.75	1.47	1.39
3	d	102	BCL	CHC-C4B	3.75	1.47	1.39
3	g	102	BCL	CHB-C1B	3.74	1.47	1.39
3	b	102	BCL	CHC-C4B	3.73	1.47	1.39
3	h	101	BCL	OBD-CAD	3.73	1.28	1.22
3	b	101	BCL	OBD-CAD	3.73	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	101	BCL	CHB-C1B	3.72	1.47	1.39
3	G	101	BCL	CHB-C1B	3.72	1.47	1.39
3	H	102	BCL	CHB-C1B	3.72	1.47	1.39
3	F	102	BCL	CHB-C1B	3.72	1.47	1.39
3	f	101	BCL	OBD-CAD	3.71	1.28	1.22
3	C	102	BCL	CHB-C1B	3.71	1.47	1.39
3	d	101	BCL	OBD-CAD	3.71	1.28	1.22
3	d	102	BCL	CHB-C1B	3.70	1.47	1.39
3	c	101	BCL	OBD-CAD	3.70	1.28	1.22
3	G	101	BCL	C1D-ND	-3.70	1.33	1.37
3	C	102	BCL	C4B-NB	-3.70	1.33	1.37
3	b	102	BCL	OBD-CAD	3.70	1.28	1.22
3	E	101	BCL	CHB-C1B	3.70	1.47	1.39
3	g	101	BCL	OBD-CAD	3.70	1.28	1.22
3	e	101	BCL	OBD-CAD	3.69	1.28	1.22
3	C	101	BCL	C1D-ND	-3.69	1.33	1.37
3	a	101	BCL	CHB-C1B	3.69	1.47	1.39
3	E	102	BCL	CHB-C1B	3.69	1.47	1.39
3	a	102	BCL	CHC-C4B	3.69	1.47	1.39
3	h	101	BCL	CHC-C4B	3.68	1.47	1.39
3	e	101	BCL	CHC-C4B	3.68	1.47	1.39
3	H	102	BCL	C4B-NB	-3.68	1.33	1.37
3	I	101	BCL	OBD-CAD	3.68	1.28	1.22
3	i	101	BCL	OBD-CAD	3.68	1.28	1.22
3	F	101	BCL	CHB-C1B	3.67	1.47	1.39
3	i	101	BCL	CHC-C4B	3.67	1.47	1.39
3	F	101	BCL	C1D-ND	-3.67	1.33	1.37
3	C	101	BCL	CHB-C1B	3.67	1.47	1.39
3	d	102	BCL	OBD-CAD	3.67	1.28	1.22
3	B	101	BCL	CHB-C1B	3.67	1.47	1.39
3	d	101	BCL	CHC-C4B	3.67	1.47	1.39
3	H	101	BCL	CHB-C1B	3.67	1.47	1.39
3	D	102	BCL	CHB-C1B	3.66	1.47	1.39
3	b	101	BCL	CHC-C4B	3.66	1.47	1.39
3	a	102	BCL	OBD-CAD	3.66	1.28	1.22
3	c	101	BCL	CHC-C4B	3.66	1.47	1.39
3	F	102	BCL	C4B-NB	-3.66	1.33	1.37
3	f	101	BCL	CHC-C4B	3.66	1.47	1.39
3	E	102	BCL	OBD-CAD	3.66	1.28	1.22
3	I	101	BCL	C4B-NB	-3.66	1.33	1.37
3	F	102	BCL	C3D-C2D	3.66	1.49	1.39
3	a	101	BCL	OBD-CAD	3.65	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	102	BCL	CHB-C1B	3.65	1.47	1.39
3	b	102	BCL	CHB-C1B	3.65	1.47	1.39
3	C	102	BCL	OBD-CAD	3.65	1.28	1.22
3	C	102	BCL	C3D-C2D	3.65	1.48	1.39
3	F	102	BCL	OBD-CAD	3.65	1.28	1.22
3	H	101	BCL	C1D-ND	-3.65	1.33	1.37
3	A	101	BCL	CHB-C1B	3.64	1.47	1.39
3	E	101	BCL	OBD-CAD	3.64	1.28	1.22
3	g	101	BCL	CHC-C4B	3.63	1.47	1.39
3	H	102	BCL	OBD-CAD	3.63	1.28	1.22
3	H	102	BCL	C3D-C2D	3.63	1.48	1.39
3	g	102	BCL	C4B-NB	-3.63	1.33	1.37
3	B	101	BCL	C1D-ND	-3.62	1.33	1.37
3	F	101	BCL	OBD-CAD	3.62	1.28	1.22
3	g	102	BCL	OBD-CAD	3.61	1.28	1.22
3	E	101	BCL	C1D-ND	-3.61	1.33	1.37
3	G	101	BCL	OBD-CAD	3.61	1.28	1.22
3	I	102	BCL	OBD-CAD	3.60	1.28	1.22
3	g	102	BCL	C3D-C2D	3.60	1.48	1.39
3	D	102	BCL	OBD-CAD	3.60	1.28	1.22
3	I	102	BCL	C1D-ND	-3.59	1.33	1.37
3	I	101	BCL	C3D-C2D	3.59	1.48	1.39
3	G	101	BCL	C3D-C2D	3.59	1.48	1.39
3	H	101	BCL	OBD-CAD	3.59	1.28	1.22
3	E	102	BCL	C3D-C2D	3.59	1.48	1.39
3	C	101	BCL	C3D-C2D	3.58	1.48	1.39
3	A	101	BCL	C1D-ND	-3.58	1.33	1.37
3	C	101	BCL	OBD-CAD	3.58	1.28	1.22
3	E	102	BCL	C4B-NB	-3.58	1.33	1.37
3	E	101	BCL	C3D-C2D	3.57	1.48	1.39
3	D	102	BCL	C1D-ND	-3.57	1.33	1.37
3	D	102	BCL	C3D-C2D	3.57	1.48	1.39
3	F	101	BCL	C3D-C2D	3.56	1.48	1.39
3	A	101	BCL	C3D-C2D	3.55	1.48	1.39
3	I	102	BCL	C3D-C2D	3.55	1.48	1.39
3	d	102	BCL	C3D-C2D	3.55	1.48	1.39
3	c	101	BCL	CHB-C1B	3.55	1.47	1.39
3	B	101	BCL	OBD-CAD	3.55	1.28	1.22
3	B	101	BCL	C3D-C2D	3.54	1.48	1.39
3	A	101	BCL	OBD-CAD	3.54	1.28	1.22
3	a	101	BCL	C3D-C2D	3.53	1.48	1.39
3	b	102	BCL	C3D-C2D	3.53	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	101	BCL	C3D-C2D	3.53	1.48	1.39
3	d	101	BCL	CHB-C1B	3.52	1.47	1.39
3	b	101	BCL	CHB-C1B	3.52	1.47	1.39
3	h	101	BCL	CHB-C1B	3.52	1.47	1.39
3	a	102	BCL	CHB-C1B	3.50	1.47	1.39
3	g	101	BCL	CHB-C1B	3.50	1.47	1.39
3	f	101	BCL	CHB-C1B	3.49	1.47	1.39
3	i	101	BCL	CHB-C1B	3.49	1.47	1.39
3	F	101	BCL	C4B-NB	-3.49	1.33	1.37
3	B	101	BCL	C4B-NB	-3.48	1.33	1.37
3	e	101	BCL	CHB-C1B	3.48	1.47	1.39
3	D	102	BCL	C4B-NB	-3.47	1.33	1.37
3	H	101	BCL	C4B-NB	-3.46	1.33	1.37
3	I	101	BCL	C1D-ND	-3.45	1.33	1.37
3	E	101	BCL	C4B-NB	-3.45	1.33	1.37
3	G	101	BCL	C4B-NB	-3.44	1.33	1.37
3	C	101	BCL	C4B-NB	-3.44	1.33	1.37
3	C	102	BCL	C1D-ND	-3.43	1.33	1.37
3	A	101	BCL	C4B-NB	-3.40	1.33	1.37
3	g	102	BCL	C1D-ND	-3.38	1.33	1.37
3	F	102	BCL	C1D-ND	-3.36	1.33	1.37
3	d	102	BCL	C4B-NB	-3.36	1.33	1.37
3	i	101	BCL	C3D-C2D	3.35	1.48	1.39
3	a	101	BCL	C4B-NB	-3.35	1.33	1.37
3	I	102	BCL	C4B-NB	-3.34	1.33	1.37
3	b	101	BCL	C3D-C2D	3.33	1.48	1.39
3	h	101	BCL	C3D-C2D	3.33	1.48	1.39
3	g	102	BCL	C1B-NB	-3.33	1.33	1.37
3	f	101	BCL	C3D-C2D	3.33	1.48	1.39
3	H	102	BCL	C1B-NB	-3.32	1.33	1.37
3	H	102	BCL	C1D-ND	-3.32	1.33	1.37
3	c	101	BCL	C3D-C2D	3.31	1.48	1.39
3	g	101	BCL	C3D-C2D	3.31	1.48	1.39
3	d	101	BCL	C3D-C2D	3.31	1.48	1.39
3	a	102	BCL	C3D-C2D	3.31	1.48	1.39
3	b	102	BCL	C4B-NB	-3.30	1.33	1.37
3	e	101	BCL	C3D-C2D	3.30	1.48	1.39
3	E	102	BCL	C1D-ND	-3.29	1.33	1.37
3	b	101	BCL	C1B-NB	-3.28	1.33	1.37
3	e	101	BCL	C4B-NB	-3.28	1.33	1.37
3	i	101	BCL	C1B-NB	-3.28	1.33	1.37
3	c	101	BCL	C1B-NB	-3.28	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	102	BCL	C1B-NB	-3.27	1.33	1.37
3	a	101	BCL	C1D-ND	-3.27	1.33	1.37
3	f	101	BCL	C4B-NB	-3.27	1.33	1.37
3	c	101	BCL	C4B-NB	-3.27	1.33	1.37
3	I	101	BCL	C1B-NB	-3.27	1.33	1.37
3	d	101	BCL	C1B-NB	-3.26	1.33	1.37
3	C	102	BCL	C1B-NB	-3.26	1.33	1.37
3	h	101	BCL	C4B-NB	-3.26	1.33	1.37
3	a	102	BCL	C4B-NB	-3.26	1.33	1.37
3	g	101	BCL	C4B-NB	-3.25	1.33	1.37
3	b	101	BCL	C4B-NB	-3.24	1.33	1.37
3	f	101	BCL	C1B-NB	-3.24	1.33	1.37
3	E	102	BCL	C1B-NB	-3.23	1.33	1.37
3	a	102	BCL	C1B-NB	-3.23	1.33	1.37
3	i	101	BCL	C4B-NB	-3.22	1.33	1.37
3	g	101	BCL	C1B-NB	-3.22	1.33	1.37
3	b	102	BCL	C1D-ND	-3.21	1.33	1.37
3	D	102	BCL	C1B-NB	-3.21	1.33	1.37
3	d	101	BCL	C4B-NB	-3.21	1.33	1.37
3	a	102	BCL	C1D-ND	-3.21	1.33	1.37
3	h	101	BCL	C1B-NB	-3.21	1.33	1.37
3	e	101	BCL	C1D-ND	-3.20	1.33	1.37
3	E	101	BCL	C1B-NB	-3.19	1.33	1.37
3	e	101	BCL	C1B-NB	-3.17	1.33	1.37
3	d	102	BCL	C1D-ND	-3.17	1.33	1.37
3	c	101	BCL	C1D-ND	-3.16	1.33	1.37
3	g	101	BCL	C1D-ND	-3.16	1.33	1.37
3	I	102	BCL	C1B-NB	-3.15	1.33	1.37
3	b	101	BCL	C1D-ND	-3.15	1.33	1.37
3	C	102	BCL	CHD-C4C	3.13	1.48	1.39
3	G	101	BCL	C1B-NB	-3.13	1.33	1.37
3	f	101	BCL	C1D-ND	-3.13	1.33	1.37
3	d	102	BCL	C1B-NB	-3.13	1.33	1.37
3	A	101	BCL	C1B-NB	-3.12	1.33	1.37
3	d	101	BCL	C1D-ND	-3.12	1.33	1.37
3	I	101	BCL	CHD-C4C	3.12	1.48	1.39
3	F	101	BCL	C1B-NB	-3.12	1.33	1.37
3	B	101	BCL	C1B-NB	-3.11	1.33	1.37
3	F	102	BCL	CHD-C4C	3.10	1.47	1.39
3	H	101	BCL	C1B-NB	-3.10	1.33	1.37
3	H	102	BCL	CHD-C4C	3.10	1.47	1.39
3	b	102	BCL	C1B-NB	-3.08	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	g	102	BCL	CHD-C4C	3.07	1.47	1.39
3	C	101	BCL	C1B-NB	-3.06	1.33	1.37
3	E	102	BCL	CHD-C4C	3.05	1.47	1.39
3	i	101	BCL	C1D-ND	-3.05	1.33	1.37
3	h	101	BCL	C1D-ND	-3.04	1.33	1.37
3	d	102	BCL	CHD-C4C	3.03	1.47	1.39
3	a	101	BCL	C1B-NB	-3.01	1.33	1.37
3	a	101	BCL	CHD-C4C	2.99	1.47	1.39
3	b	102	BCL	CHD-C4C	2.99	1.47	1.39
3	G	101	BCL	CHD-C4C	2.98	1.47	1.39
3	C	101	BCL	CHD-C4C	2.98	1.47	1.39
3	E	101	BCL	CHD-C4C	2.98	1.47	1.39
3	H	101	BCL	CHD-C4C	2.97	1.47	1.39
3	B	101	BCL	CHD-C4C	2.95	1.47	1.39
3	F	101	BCL	CHD-C4C	2.94	1.47	1.39
3	I	102	BCL	CHD-C4C	2.94	1.47	1.39
3	D	102	BCL	CHD-C4C	2.93	1.47	1.39
3	A	101	BCL	CHD-C4C	2.90	1.47	1.39
3	g	101	BCL	CHD-C4C	2.87	1.47	1.39
3	f	101	BCL	CHD-C4C	2.84	1.47	1.39
3	c	101	BCL	CHD-C4C	2.81	1.47	1.39
3	b	101	BCL	CHD-C4C	2.81	1.47	1.39
3	a	102	BCL	CHD-C4C	2.81	1.47	1.39
3	h	101	BCL	CHD-C4C	2.81	1.47	1.39
3	d	101	BCL	CHD-C4C	2.80	1.47	1.39
3	i	101	BCL	CHD-C4C	2.80	1.47	1.39
3	e	101	BCL	CHD-C4C	2.79	1.47	1.39
4	a	103	A1ELD	C9-C10	-2.79	1.40	1.46
4	f	102	A1ELD	C30-C29	2.78	1.41	1.34
4	i	102	A1ELD	C9-C10	-2.77	1.40	1.46
3	H	102	BCL	C1B-C2B	2.77	1.49	1.43
3	I	101	BCL	C1B-C2B	2.76	1.49	1.43
3	d	102	BCL	C1B-C2B	2.75	1.49	1.43
3	A	101	BCL	C1B-C2B	2.75	1.49	1.43
4	d	103	A1ELD	C9-C10	-2.75	1.40	1.46
3	g	102	BCL	C1B-C2B	2.75	1.49	1.43
4	g	103	A1ELD	C9-C10	-2.75	1.40	1.46
4	h	102	A1ELD	C9-C10	-2.74	1.40	1.46
3	F	102	BCL	C1B-C2B	2.74	1.49	1.43
3	C	101	BCL	C1B-C2B	2.74	1.49	1.43
3	H	101	BCL	C4D-CHA	2.73	1.47	1.38
3	a	101	BCL	C1B-C2B	2.73	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	101	A1ELD	C9-C10	-2.73	1.40	1.46
3	I	102	BCL	C4D-CHA	2.72	1.47	1.38
3	E	101	BCL	C1B-C2B	2.72	1.49	1.43
3	E	102	BCL	C1B-C2B	2.72	1.49	1.43
3	F	101	BCL	C4D-CHA	2.72	1.47	1.38
3	g	101	BCL	C1B-C2B	2.72	1.49	1.43
3	b	102	BCL	C1B-C2B	2.72	1.49	1.43
3	C	101	BCL	C4D-CHA	2.72	1.47	1.38
3	d	102	BCL	C4D-CHA	2.72	1.47	1.38
3	D	102	BCL	C1B-C2B	2.71	1.49	1.43
3	d	101	BCL	C1B-C2B	2.71	1.49	1.43
3	B	101	BCL	C4D-CHA	2.71	1.47	1.38
3	H	101	BCL	C1B-C2B	2.71	1.49	1.43
3	C	102	BCL	C1B-C2B	2.71	1.49	1.43
3	E	101	BCL	C4D-CHA	2.71	1.47	1.38
3	D	102	BCL	C4D-CHA	2.71	1.47	1.38
3	f	101	BCL	C1B-C2B	2.71	1.49	1.43
3	B	101	BCL	C1B-C2B	2.71	1.49	1.43
3	A	101	BCL	C4D-CHA	2.71	1.47	1.38
3	G	101	BCL	C1B-C2B	2.70	1.49	1.43
4	c	102	A1ELD	C30-C29	2.70	1.41	1.34
3	a	102	BCL	C1B-C2B	2.70	1.49	1.43
3	i	101	BCL	C4D-CHA	2.70	1.47	1.38
3	G	101	BCL	C4D-CHA	2.70	1.47	1.38
3	i	101	BCL	C1B-C2B	2.70	1.49	1.43
3	g	101	BCL	C4D-CHA	2.69	1.47	1.38
3	b	102	BCL	C4D-CHA	2.69	1.47	1.38
4	h	102	A1ELD	C30-C29	2.69	1.41	1.34
3	h	101	BCL	C1B-C2B	2.69	1.49	1.43
3	c	101	BCL	C1B-C2B	2.68	1.49	1.43
3	f	101	BCL	C4D-CHA	2.68	1.47	1.38
4	i	102	A1ELD	C30-C29	2.68	1.41	1.34
3	c	101	BCL	C4D-CHA	2.68	1.47	1.38
3	a	102	BCL	C4D-CHA	2.68	1.47	1.38
4	d	103	A1ELD	C30-C29	2.68	1.41	1.34
4	A	102	A1ELD	C30-C29	2.68	1.41	1.34
3	F	101	BCL	C1B-C2B	2.67	1.49	1.43
3	d	101	BCL	C4D-CHA	2.67	1.47	1.38
3	b	101	BCL	C1B-C2B	2.67	1.49	1.43
4	D	101	A1ELD	C30-C29	2.67	1.41	1.34
3	b	101	BCL	C4D-CHA	2.67	1.47	1.38
3	h	101	BCL	C4D-CHA	2.66	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	a	101	BCL	C4D-CHA	2.66	1.47	1.38
3	e	101	BCL	C1B-C2B	2.66	1.49	1.43
3	e	101	BCL	C4D-CHA	2.66	1.47	1.38
3	H	102	BCL	C4D-CHA	2.65	1.47	1.38
4	c	102	A1ELD	C9-C10	-2.65	1.40	1.46
3	F	102	BCL	C4D-CHA	2.64	1.47	1.38
3	I	102	BCL	C1B-C2B	2.64	1.49	1.43
3	E	102	BCL	C4D-CHA	2.64	1.47	1.38
4	a	103	A1ELD	C30-C29	2.63	1.41	1.34
3	C	102	BCL	C4D-CHA	2.62	1.47	1.38
3	I	101	BCL	C4D-CHA	2.61	1.47	1.38
4	g	103	A1ELD	C30-C29	2.61	1.41	1.34
3	g	102	BCL	C4D-CHA	2.61	1.47	1.38
4	A	102	A1ELD	C9-C10	-2.55	1.40	1.46
4	f	102	A1ELD	C21-C22	2.54	1.41	1.35
4	f	102	A1ELD	C31-C32	2.54	1.41	1.35
4	c	102	A1ELD	C31-C32	2.49	1.41	1.35
4	f	102	A1ELD	C18-C16	2.48	1.41	1.35
4	D	101	A1ELD	C31-C32	2.47	1.41	1.35
4	f	102	A1ELD	C13-C10	2.47	1.41	1.35
4	g	103	A1ELD	C13-C10	2.46	1.41	1.35
4	d	103	A1ELD	C31-C32	2.45	1.41	1.35
4	f	102	A1ELD	C9-C10	-2.45	1.40	1.46
4	c	102	A1ELD	C21-C22	2.44	1.41	1.35
4	i	102	A1ELD	C31-C32	2.44	1.41	1.35
4	A	102	A1ELD	C31-C32	2.43	1.41	1.35
4	g	103	A1ELD	C21-C22	2.42	1.41	1.35
4	D	101	A1ELD	C13-C10	2.42	1.41	1.35
4	A	102	A1ELD	C21-C22	2.41	1.41	1.35
4	i	102	A1ELD	C21-C22	2.41	1.41	1.35
4	g	103	A1ELD	C18-C16	2.40	1.41	1.35
4	d	103	A1ELD	C21-C22	2.40	1.41	1.35
4	h	102	A1ELD	C31-C32	2.40	1.41	1.35
4	g	103	A1ELD	C31-C32	2.40	1.41	1.35
4	h	102	A1ELD	C18-C16	2.40	1.41	1.35
4	c	102	A1ELD	C13-C10	2.39	1.41	1.35
4	d	103	A1ELD	C13-C10	2.38	1.41	1.35
4	h	102	A1ELD	C21-C22	2.38	1.41	1.35
4	i	102	A1ELD	C13-C10	2.38	1.41	1.35
4	A	102	A1ELD	C13-C10	2.38	1.41	1.35
4	c	102	A1ELD	C18-C16	2.38	1.41	1.35
4	d	103	A1ELD	C18-C16	2.38	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	a	103	A1ELD	C13-C10	2.37	1.41	1.35
4	a	103	A1ELD	C31-C32	2.37	1.41	1.35
4	h	102	A1ELD	C13-C10	2.37	1.41	1.35
4	D	101	A1ELD	C21-C22	2.37	1.41	1.35
4	A	102	A1ELD	C18-C16	2.37	1.41	1.35
4	a	103	A1ELD	C21-C22	2.35	1.41	1.35
3	C	102	BCL	C3D-C4D	-2.33	1.38	1.44
4	D	101	A1ELD	C18-C16	2.33	1.41	1.35
4	i	102	A1ELD	C18-C16	2.32	1.41	1.35
3	F	102	BCL	C3D-C4D	-2.31	1.39	1.44
4	a	103	A1ELD	C24-C22	-2.29	1.41	1.46
3	I	101	BCL	C3D-C4D	-2.29	1.39	1.44
3	H	102	BCL	C3D-C4D	-2.29	1.39	1.44
3	E	102	BCL	C3D-C4D	-2.29	1.39	1.44
3	g	102	BCL	C3D-C4D	-2.26	1.39	1.44
4	a	103	A1ELD	C18-C16	2.26	1.41	1.35
3	a	101	BCL	C3D-C4D	-2.25	1.39	1.44
3	d	102	BCL	C3D-C4D	-2.25	1.39	1.44
3	i	101	BCL	C3D-C4D	-2.24	1.39	1.44
3	b	102	BCL	C3D-C4D	-2.23	1.39	1.44
4	D	101	A1ELD	C24-C22	-2.22	1.41	1.46
3	f	101	BCL	C3D-C4D	-2.22	1.39	1.44
4	c	102	A1ELD	C24-C22	-2.22	1.41	1.46
4	i	102	A1ELD	C24-C22	-2.21	1.41	1.46
4	h	102	A1ELD	C24-C22	-2.21	1.41	1.46
3	h	101	BCL	C3D-C4D	-2.21	1.39	1.44
4	a	103	A1ELD	C34-C32	-2.21	1.41	1.46
4	d	103	A1ELD	C24-C22	-2.20	1.41	1.46
3	g	101	BCL	C3D-C4D	-2.19	1.39	1.44
3	e	101	BCL	C3D-C4D	-2.19	1.39	1.44
4	g	103	A1ELD	C24-C22	-2.19	1.41	1.46
3	D	102	BCL	C3D-C4D	-2.18	1.39	1.44
4	A	102	A1ELD	C34-C32	-2.18	1.41	1.46
3	b	101	BCL	C3D-C4D	-2.18	1.39	1.44
3	E	101	BCL	C3D-C4D	-2.18	1.39	1.44
4	h	102	A1ELD	C15-C16	-2.18	1.41	1.46
3	C	101	BCL	C3D-C4D	-2.18	1.39	1.44
3	a	102	BCL	C3D-C4D	-2.16	1.39	1.44
4	A	102	A1ELD	C24-C22	-2.16	1.41	1.46
3	c	101	BCL	C3D-C4D	-2.16	1.39	1.44
4	d	103	A1ELD	C15-C16	-2.16	1.41	1.46
3	A	101	BCL	C3D-C4D	-2.16	1.39	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	d	101	BCL	C3D-C4D	-2.16	1.39	1.44
3	I	102	BCL	C3D-C4D	-2.15	1.39	1.44
4	D	101	A1ELD	C15-C16	-2.15	1.41	1.46
4	a	103	A1ELD	C15-C16	-2.14	1.41	1.46
3	H	101	BCL	C3D-C4D	-2.14	1.39	1.44
3	B	101	BCL	C3D-C4D	-2.13	1.39	1.44
4	i	102	A1ELD	C34-C32	-2.13	1.41	1.46
4	c	102	A1ELD	C34-C32	-2.13	1.41	1.46
4	i	102	A1ELD	C15-C16	-2.13	1.41	1.46
3	F	101	BCL	C3D-C4D	-2.12	1.39	1.44
4	g	103	A1ELD	C34-C32	-2.12	1.41	1.46
4	D	101	A1ELD	C34-C32	-2.12	1.41	1.46
3	G	101	BCL	C3D-C4D	-2.12	1.39	1.44
4	d	103	A1ELD	C34-C32	-2.11	1.41	1.46
4	c	102	A1ELD	C15-C16	-2.11	1.41	1.46
4	A	102	A1ELD	C15-C16	-2.10	1.41	1.46
4	g	103	A1ELD	C15-C16	-2.09	1.41	1.46
3	H	102	BCL	C3B-C2B	2.08	1.49	1.42
4	h	102	A1ELD	C34-C32	-2.08	1.41	1.46
3	g	102	BCL	C3B-C2B	2.08	1.49	1.42
3	F	102	BCL	C3B-C2B	2.08	1.49	1.42
4	f	102	A1ELD	C34-C32	-2.07	1.41	1.46
3	C	102	BCL	C3B-C2B	2.07	1.49	1.42
3	E	102	BCL	C3B-C2B	2.06	1.49	1.42
4	f	102	A1ELD	C24-C22	-2.06	1.41	1.46
3	I	101	BCL	C3B-C2B	2.05	1.49	1.42
3	F	101	BCL	C3B-C2B	2.05	1.49	1.42
3	D	102	BCL	C3B-C2B	2.04	1.49	1.42
3	C	101	BCL	C3B-C2B	2.04	1.49	1.42
3	E	101	BCL	C3B-C2B	2.04	1.49	1.42
3	G	101	BCL	C3B-C2B	2.03	1.49	1.42
3	I	102	BCL	C3B-C2B	2.02	1.49	1.42
3	b	102	BCL	C3B-C2B	2.02	1.49	1.42
3	A	101	BCL	C3B-C2B	2.02	1.49	1.42
3	H	101	BCL	C3B-C2B	2.02	1.49	1.42
3	B	101	BCL	C3B-C2B	2.02	1.49	1.42
3	d	102	BCL	C3B-C2B	2.01	1.49	1.42
3	I	101	BCL	C1D-C2D	2.00	1.49	1.45

All (734) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	g	103	A1ELD	C25-C26-C27	10.13	140.33	127.28
4	A	102	A1ELD	C30-C29-C27	9.11	142.73	127.30
4	i	102	A1ELD	C30-C29-C27	9.09	142.70	127.30
4	d	103	A1ELD	C30-C29-C27	9.07	142.66	127.30
4	a	103	A1ELD	C30-C29-C27	9.06	142.64	127.30
4	f	102	A1ELD	C30-C29-C27	9.05	142.63	127.30
4	c	102	A1ELD	C30-C29-C27	8.96	142.47	127.30
4	h	102	A1ELD	C30-C29-C27	8.93	142.42	127.30
4	D	101	A1ELD	C30-C29-C27	8.90	142.38	127.30
4	a	103	A1ELD	C25-C26-C27	8.58	138.34	127.28
4	i	102	A1ELD	C25-C26-C27	8.39	138.09	127.28
4	d	103	A1ELD	C25-C26-C27	8.25	137.91	127.28
4	c	102	A1ELD	C25-C26-C27	8.21	137.86	127.28
4	A	102	A1ELD	C25-C26-C27	8.13	137.76	127.28
4	f	102	A1ELD	C25-C26-C27	8.12	137.74	127.28
4	D	101	A1ELD	C25-C26-C27	8.05	137.65	127.28
4	h	102	A1ELD	C25-C26-C27	7.99	137.58	127.28
4	g	103	A1ELD	C30-C29-C27	7.35	139.75	127.30
3	g	101	BCL	CAC-C3C-C4C	6.53	127.07	112.58
3	b	101	BCL	CAC-C3C-C4C	6.51	127.04	112.58
3	f	101	BCL	CAC-C3C-C4C	6.50	127.00	112.58
3	c	101	BCL	CAC-C3C-C4C	6.49	126.99	112.58
3	i	101	BCL	CAC-C3C-C4C	6.49	126.99	112.58
3	e	101	BCL	CAC-C3C-C4C	6.49	126.99	112.58
3	a	102	BCL	CAC-C3C-C4C	6.47	126.94	112.58
3	h	101	BCL	CAC-C3C-C4C	6.38	126.74	112.58
3	H	102	BCL	CAC-C3C-C4C	6.34	126.65	112.58
3	d	101	BCL	CAC-C3C-C4C	6.31	126.58	112.58
3	d	102	BCL	CAC-C3C-C4C	6.30	126.57	112.58
3	A	101	BCL	CAC-C3C-C4C	6.25	126.46	112.58
3	F	102	BCL	CAC-C3C-C4C	6.25	126.45	112.58
3	H	101	BCL	CAC-C3C-C4C	6.23	126.41	112.58
3	I	102	BCL	CAC-C3C-C4C	6.22	126.39	112.58
3	D	102	BCL	CAC-C3C-C4C	6.22	126.38	112.58
3	C	101	BCL	CAC-C3C-C4C	6.21	126.36	112.58
3	H	102	BCL	CMC-C2C-C1C	6.21	128.46	111.77
3	G	101	BCL	CAC-C3C-C4C	6.21	126.36	112.58
3	E	101	BCL	CAC-C3C-C4C	6.20	126.35	112.58
3	B	101	BCL	CAC-C3C-C4C	6.19	126.32	112.58
3	a	101	BCL	CAC-C3C-C4C	6.19	126.31	112.58
3	F	101	BCL	CAC-C3C-C4C	6.18	126.31	112.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	d	102	BCL	CMC-C2C-C1C	6.17	128.37	111.77
3	F	102	BCL	CMC-C2C-C1C	6.17	128.35	111.77
3	b	102	BCL	CAC-C3C-C4C	6.08	126.07	112.58
3	C	102	BCL	CAC-C3C-C4C	6.04	125.99	112.58
3	I	101	BCL	CAC-C3C-C4C	6.03	125.97	112.58
3	f	101	BCL	C4A-NA-C1A	-5.99	103.94	106.68
3	a	102	BCL	C4A-NA-C1A	-5.99	103.95	106.68
3	e	101	BCL	CMC-C2C-C1C	5.96	127.81	111.77
3	h	101	BCL	C4A-NA-C1A	-5.96	103.96	106.68
3	f	101	BCL	CMC-C2C-C1C	5.95	127.78	111.77
3	b	101	BCL	CMC-C2C-C1C	5.95	127.77	111.77
3	b	102	BCL	CMC-C2C-C1C	5.95	127.76	111.77
3	g	101	BCL	CMC-C2C-C1C	5.95	127.76	111.77
3	c	101	BCL	CMC-C2C-C1C	5.94	127.75	111.77
3	h	101	BCL	CMC-C2C-C1C	5.93	127.72	111.77
3	b	101	BCL	C4A-NA-C1A	-5.93	103.97	106.68
3	a	102	BCL	CMC-C2C-C1C	5.93	127.70	111.77
3	a	101	BCL	CMC-C2C-C1C	5.92	127.68	111.77
3	g	101	BCL	C4A-NA-C1A	-5.89	103.99	106.68
3	d	101	BCL	CMC-C2C-C1C	5.89	127.60	111.77
3	i	101	BCL	C4A-NA-C1A	-5.88	104.00	106.68
3	i	101	BCL	CMC-C2C-C1C	5.88	127.57	111.77
3	C	102	BCL	CMC-C2C-C1C	5.87	127.55	111.77
3	A	101	BCL	C4A-NA-C1A	-5.87	104.00	106.68
3	F	101	BCL	CMC-C2C-C1C	5.86	127.53	111.77
3	A	101	BCL	CMC-C2C-C1C	5.86	127.52	111.77
3	E	102	BCL	CMC-C2C-C1C	5.86	127.51	111.77
3	E	101	BCL	CMC-C2C-C1C	5.85	127.50	111.77
3	B	101	BCL	CMC-C2C-C1C	5.85	127.50	111.77
3	I	101	BCL	CMC-C2C-C1C	5.85	127.49	111.77
3	G	101	BCL	CMC-C2C-C1C	5.84	127.48	111.77
3	c	101	BCL	C4A-NA-C1A	-5.84	104.02	106.68
3	D	102	BCL	CMC-C2C-C1C	5.84	127.46	111.77
3	C	101	BCL	CMC-C2C-C1C	5.84	127.46	111.77
3	H	101	BCL	CMC-C2C-C1C	5.83	127.45	111.77
3	g	102	BCL	CMC-C2C-C1C	5.82	127.42	111.77
3	I	102	BCL	CMC-C2C-C1C	5.82	127.41	111.77
3	d	101	BCL	C4A-NA-C1A	-5.81	104.03	106.68
3	e	101	BCL	C4A-NA-C1A	-5.76	104.05	106.68
3	E	102	BCL	CAC-C3C-C4C	5.73	125.31	112.58
3	a	101	BCL	C4A-NA-C1A	-5.72	104.07	106.68
3	g	102	BCL	CAC-C3C-C4C	5.65	125.13	112.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	b	102	BCL	C4A-NA-C1A	-5.61	104.12	106.68
3	D	102	BCL	C4A-NA-C1A	-5.60	104.12	106.68
3	a	102	BCL	C2B-C1B-NB	5.58	116.12	110.33
3	F	101	BCL	C4A-NA-C1A	-5.57	104.14	106.68
3	b	101	BCL	C2B-C1B-NB	5.56	116.10	110.33
3	d	102	BCL	C4A-NA-C1A	-5.56	104.14	106.68
3	i	101	BCL	C2B-C1B-NB	5.55	116.08	110.33
3	d	101	BCL	C2B-C1B-NB	5.55	116.08	110.33
3	c	101	BCL	C2B-C1B-NB	5.55	116.08	110.33
3	h	101	BCL	C2B-C1B-NB	5.54	116.07	110.33
3	G	101	BCL	C4A-NA-C1A	-5.53	104.15	106.68
3	f	101	BCL	C2B-C1B-NB	5.53	116.06	110.33
3	g	101	BCL	C2B-C1B-NB	5.53	116.06	110.33
3	a	101	BCL	CHD-C1D-ND	-5.51	117.05	124.80
3	e	101	BCL	C2B-C1B-NB	5.50	116.03	110.33
3	H	101	BCL	C4A-NA-C1A	-5.50	104.17	106.68
3	E	101	BCL	C4A-NA-C1A	-5.49	104.17	106.68
3	C	102	BCL	CHD-C1D-ND	-5.49	117.08	124.80
3	I	102	BCL	C4A-NA-C1A	-5.48	104.18	106.68
3	B	101	BCL	C4A-NA-C1A	-5.45	104.19	106.68
3	F	102	BCL	O2D-CGD-CBD	5.45	120.75	111.23
3	H	102	BCL	O2D-CGD-CBD	5.43	120.73	111.23
3	I	101	BCL	O2D-CGD-CBD	5.42	120.70	111.23
3	E	102	BCL	O2D-CGD-CBD	5.41	120.69	111.23
3	g	102	BCL	O2D-CGD-CBD	5.41	120.69	111.23
3	C	102	BCL	O2D-CGD-CBD	5.40	120.66	111.23
3	I	101	BCL	CHD-C1D-ND	-5.33	117.30	124.80
3	i	101	BCL	O2D-CGD-CBD	5.32	120.53	111.23
3	g	101	BCL	O2D-CGD-CBD	5.32	120.53	111.23
3	C	101	BCL	C4A-NA-C1A	-5.30	104.26	106.68
3	h	101	BCL	O2D-CGD-CBD	5.30	120.49	111.23
3	e	101	BCL	O2D-CGD-CBD	5.29	120.49	111.23
3	b	102	BCL	CHD-C1D-ND	-5.29	117.36	124.80
3	d	101	BCL	O2D-CGD-CBD	5.25	120.40	111.23
3	C	101	BCL	C1D-CHD-C4C	-5.24	113.97	126.62
3	F	101	BCL	C1D-CHD-C4C	-5.24	113.98	126.62
3	b	101	BCL	O2D-CGD-CBD	5.23	120.37	111.23
3	c	101	BCL	O2D-CGD-CBD	5.23	120.37	111.23
3	G	101	BCL	C1D-CHD-C4C	-5.23	114.02	126.62
3	E	101	BCL	C1D-CHD-C4C	-5.20	114.09	126.62
3	A	101	BCL	C1D-CHD-C4C	-5.18	114.13	126.62
3	g	102	BCL	CHD-C1D-ND	-5.17	117.53	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	101	BCL	C1D-CHD-C4C	-5.17	114.15	126.62
3	B	101	BCL	C1D-CHD-C4C	-5.17	114.15	126.62
3	I	102	BCL	C1D-CHD-C4C	-5.17	114.16	126.62
3	b	102	BCL	O2D-CGD-CBD	5.15	120.24	111.23
3	f	101	BCL	O2D-CGD-CBD	5.14	120.22	111.23
3	D	102	BCL	C1D-CHD-C4C	-5.14	114.22	126.62
3	a	101	BCL	O2D-CGD-CBD	5.14	120.21	111.23
3	d	102	BCL	O2D-CGD-CBD	5.13	120.20	111.23
3	a	102	BCL	O2D-CGD-CBD	5.12	120.19	111.23
3	E	102	BCL	CHD-C1D-ND	-5.11	117.61	124.80
3	C	102	BCL	C4A-NA-C1A	-5.10	104.35	106.68
3	d	102	BCL	CHD-C1D-ND	-5.10	117.63	124.80
3	I	102	BCL	O2D-CGD-CBD	5.09	120.14	111.23
3	A	101	BCL	O2D-CGD-CBD	5.03	120.03	111.23
3	D	102	BCL	CHD-C1D-ND	-5.03	117.72	124.80
3	F	101	BCL	O2D-CGD-CBD	5.03	120.02	111.23
3	D	102	BCL	C2B-C1B-NB	5.02	115.53	110.33
3	E	101	BCL	O2D-CGD-CBD	5.01	119.99	111.23
3	E	101	BCL	CHD-C1D-ND	-5.00	117.76	124.80
3	D	102	BCL	O2D-CGD-CBD	4.99	119.96	111.23
3	b	102	BCL	C2B-C1B-NB	4.98	115.49	110.33
3	B	101	BCL	O2D-CGD-CBD	4.97	119.92	111.23
3	a	101	BCL	C2B-C1B-NB	4.97	115.48	110.33
3	B	101	BCL	CHD-C1D-ND	-4.96	117.81	124.80
3	A	101	BCL	C2B-C1B-NB	4.96	115.47	110.33
3	G	101	BCL	C2B-C1B-NB	4.95	115.46	110.33
3	H	101	BCL	O2D-CGD-CBD	4.95	119.88	111.23
3	F	101	BCL	C2B-C1B-NB	4.94	115.45	110.33
3	I	102	BCL	C2B-C1B-NB	4.94	115.45	110.33
3	C	101	BCL	O2D-CGD-CBD	4.94	119.86	111.23
3	E	101	BCL	C2B-C1B-NB	4.93	115.44	110.33
3	I	102	BCL	CHD-C1D-ND	-4.93	117.87	124.80
3	I	101	BCL	C4A-NA-C1A	-4.93	104.43	106.68
3	H	101	BCL	CHD-C1D-ND	-4.92	117.87	124.80
3	G	101	BCL	O2D-CGD-CBD	4.91	119.82	111.23
3	B	101	BCL	C2B-C1B-NB	4.91	115.42	110.33
3	A	101	BCL	CHD-C1D-ND	-4.90	117.90	124.80
3	g	102	BCL	C4A-NA-C1A	-4.90	104.44	106.68
3	d	102	BCL	C2B-C1B-NB	4.89	115.40	110.33
3	F	101	BCL	CHD-C1D-ND	-4.88	117.93	124.80
3	C	101	BCL	C2B-C1B-NB	4.88	115.39	110.33
3	C	101	BCL	CHD-C1D-ND	-4.88	117.94	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	102	BCL	CHD-C1D-ND	-4.86	117.97	124.80
3	H	101	BCL	C2B-C1B-NB	4.85	115.36	110.33
3	F	102	BCL	C4A-NA-C1A	-4.80	104.49	106.68
4	a	103	A1ELD	C19-C20-C21	4.73	133.19	123.52
3	G	101	BCL	CHD-C1D-ND	-4.71	118.17	124.80
3	H	102	BCL	C4A-NA-C1A	-4.70	104.54	106.68
3	E	102	BCL	C4A-NA-C1A	-4.69	104.54	106.68
3	H	102	BCL	CHD-C1D-ND	-4.66	118.24	124.80
4	i	102	A1ELD	C19-C20-C21	4.66	133.06	123.52
3	C	102	BCL	C2B-C1B-NB	4.64	115.13	110.33
3	I	101	BCL	C2B-C1B-NB	4.63	115.13	110.33
3	E	102	BCL	C2B-C1B-NB	4.59	115.09	110.33
3	g	102	BCL	C2B-C1B-NB	4.57	115.06	110.33
3	a	102	BCL	C1C-NC-C4C	-4.51	104.62	106.68
3	C	102	BCL	C1D-ND-C4D	4.51	109.48	106.31
3	a	101	BCL	C1D-CHD-C4C	-4.47	115.83	126.62
3	F	102	BCL	C2B-C1B-NB	4.47	114.96	110.33
3	i	101	BCL	C1D-CHD-C4C	-4.45	115.88	126.62
3	c	101	BCL	C1C-NC-C4C	-4.42	104.66	106.68
3	b	101	BCL	C1C-NC-C4C	-4.41	104.67	106.68
3	g	102	BCL	C1D-CHD-C4C	-4.40	116.02	126.62
3	i	101	BCL	C1C-NC-C4C	-4.39	104.67	106.68
3	I	101	BCL	C1D-ND-C4D	4.39	109.39	106.31
3	H	102	BCL	C2B-C1B-NB	4.38	114.86	110.33
3	b	102	BCL	C1D-CHD-C4C	-4.36	116.10	126.62
3	e	101	BCL	C1C-NC-C4C	-4.35	104.69	106.68
4	f	102	A1ELD	C19-C20-C21	4.34	132.41	123.52
3	E	102	BCL	C1D-CHD-C4C	-4.29	116.28	126.62
3	h	101	BCL	C1C-NC-C4C	-4.28	104.73	106.68
3	f	101	BCL	C1C-NC-C4C	-4.28	104.73	106.68
3	d	101	BCL	C1D-CHD-C4C	-4.28	116.31	126.62
3	F	102	BCL	C1D-CHD-C4C	-4.27	116.31	126.62
3	H	102	BCL	C1D-CHD-C4C	-4.26	116.35	126.62
3	d	101	BCL	C1C-NC-C4C	-4.25	104.74	106.68
3	g	101	BCL	C1C-NC-C4C	-4.25	104.74	106.68
3	d	102	BCL	C1D-CHD-C4C	-4.24	116.40	126.62
4	A	102	A1ELD	C19-C20-C21	4.23	132.17	123.52
3	F	102	BCL	C1D-ND-C4D	4.21	109.27	106.31
3	a	102	BCL	C1D-CHD-C4C	-4.21	116.47	126.62
3	b	101	BCL	C1D-CHD-C4C	-4.20	116.50	126.62
3	g	102	BCL	C1D-ND-C4D	4.19	109.25	106.31
3	h	101	BCL	C1D-CHD-C4C	-4.16	116.59	126.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	i	101	BCL	CHD-C1D-ND	-4.16	118.95	124.80
3	H	102	BCL	C1D-ND-C4D	4.15	109.22	106.31
3	e	101	BCL	CHD-C1D-ND	-4.11	119.02	124.80
3	f	101	BCL	CHD-C1D-ND	-4.10	119.03	124.80
3	e	101	BCL	C1D-CHD-C4C	-4.10	116.74	126.62
3	d	101	BCL	CHD-C1D-ND	-4.09	119.05	124.80
3	c	101	BCL	C1D-CHD-C4C	-4.09	116.76	126.62
3	g	101	BCL	C1D-CHD-C4C	-4.08	116.78	126.62
3	f	101	BCL	C1D-CHD-C4C	-4.07	116.79	126.62
3	E	102	BCL	C1D-ND-C4D	4.05	109.16	106.31
3	g	101	BCL	CHD-C1D-ND	-4.05	119.11	124.80
3	h	101	BCL	CHD-C1D-ND	-4.04	119.12	124.80
3	d	102	BCL	C1D-ND-C4D	4.01	109.13	106.31
4	f	102	A1ELD	C9-C10-C13	4.01	125.32	119.01
3	b	102	BCL	C1D-ND-C4D	4.01	109.13	106.31
3	b	101	BCL	CHD-C1D-ND	-3.98	119.20	124.80
3	c	101	BCL	CHD-C1D-ND	-3.96	119.23	124.80
3	G	101	BCL	C1D-ND-C4D	3.95	109.09	106.31
3	E	101	BCL	C1D-ND-C4D	3.93	109.07	106.31
4	f	102	A1ELD	C8-C9-C10	3.92	132.04	126.23
3	B	101	BCL	C1D-ND-C4D	3.91	109.06	106.31
3	F	101	BCL	C1D-ND-C4D	3.87	109.03	106.31
3	I	102	BCL	C1D-ND-C4D	3.86	109.02	106.31
3	a	101	BCL	C1D-ND-C4D	3.86	109.02	106.31
4	g	103	A1ELD	C19-C20-C21	3.85	131.41	123.52
4	f	102	A1ELD	C11-C10-C13	-3.85	116.57	122.82
3	D	102	BCL	C1D-ND-C4D	3.84	109.00	106.31
4	d	103	A1ELD	C19-C20-C21	3.84	131.37	123.52
3	H	101	BCL	C1D-ND-C4D	3.83	109.00	106.31
3	a	102	BCL	CHD-C1D-ND	-3.83	119.41	124.80
4	c	102	A1ELD	C19-C20-C21	3.82	131.34	123.52
4	D	101	A1ELD	C19-C20-C21	3.81	131.32	123.52
3	C	101	BCL	C1D-ND-C4D	3.81	108.98	106.31
4	h	102	A1ELD	C19-C20-C21	3.78	131.25	123.52
4	A	102	A1ELD	C11-C10-C13	-3.74	116.76	122.82
3	A	101	BCL	C1D-ND-C4D	3.71	108.91	106.31
3	I	101	BCL	C1D-CHD-C4C	-3.69	117.73	126.62
3	g	102	BCL	CMC-C2C-C3C	3.65	128.08	113.98
4	c	102	A1ELD	C11-C10-C13	-3.64	116.92	122.82
3	E	102	BCL	CMC-C2C-C3C	3.62	127.96	113.98
3	a	101	BCL	CBC-CAC-C3C	-3.60	105.77	113.41
3	C	102	BCL	C1D-CHD-C4C	-3.60	117.93	126.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	d	102	BCL	CMC-C2C-C3C	3.60	127.89	113.98
4	D	101	A1ELD	C11-C10-C13	-3.59	117.00	122.82
4	i	102	A1ELD	C11-C10-C13	-3.58	117.01	122.82
3	b	102	BCL	CMC-C2C-C3C	3.58	127.81	113.98
3	H	102	BCL	CMC-C2C-C3C	3.57	127.79	113.98
3	F	102	BCL	CMC-C2C-C3C	3.57	127.78	113.98
4	g	103	A1ELD	C11-C10-C13	-3.55	117.06	122.82
4	a	103	A1ELD	C11-C10-C13	-3.55	117.07	122.82
4	A	102	A1ELD	C9-C10-C13	3.55	124.59	119.01
4	h	102	A1ELD	C11-C10-C13	-3.54	117.08	122.82
3	I	101	BCL	CBC-CAC-C3C	-3.53	105.93	113.41
4	d	103	A1ELD	C11-C10-C13	-3.52	117.11	122.82
4	a	103	A1ELD	C31-C30-C29	3.52	133.40	123.20
4	A	102	A1ELD	C31-C30-C29	3.52	133.40	123.20
3	d	102	BCL	CBC-CAC-C3C	-3.48	106.04	113.41
3	a	101	BCL	CMC-C2C-C3C	3.45	127.34	113.98
3	C	102	BCL	CBC-CAC-C3C	-3.45	106.09	113.41
4	g	103	A1ELD	C9-C10-C13	3.41	124.37	119.01
4	c	102	A1ELD	C9-C10-C13	3.40	124.36	119.01
3	F	102	BCL	CBC-CAC-C3C	-3.39	106.23	113.41
4	i	102	A1ELD	C31-C30-C29	3.39	133.01	123.20
3	I	101	BCL	CMC-C2C-C3C	3.39	127.07	113.98
4	c	102	A1ELD	C20-C19-C18	3.38	130.43	123.52
3	d	101	BCL	CBC-CAC-C3C	-3.38	106.25	113.41
4	f	102	A1ELD	C31-C30-C29	3.37	132.96	123.20
4	d	103	A1ELD	C31-C30-C29	3.36	132.95	123.20
3	e	101	BCL	CBC-CAC-C3C	-3.36	106.29	113.41
3	c	101	BCL	CMC-C2C-C3C	3.36	126.95	113.98
3	g	101	BCL	CMC-C2C-C3C	3.35	126.95	113.98
4	g	103	A1ELD	C20-C19-C18	3.35	130.37	123.52
3	f	101	BCL	CMC-C2C-C3C	3.34	126.91	113.98
3	b	101	BCL	CMC-C2C-C3C	3.34	126.91	113.98
3	a	102	BCL	CMC-C2C-C3C	3.34	126.90	113.98
3	H	102	BCL	CBC-CAC-C3C	-3.34	106.33	113.41
3	e	101	BCL	CMC-C2C-C3C	3.34	126.90	113.98
3	h	101	BCL	CBC-CAC-C3C	-3.34	106.33	113.41
3	b	101	BCL	CBC-CAC-C3C	-3.34	106.33	113.41
3	d	101	BCL	CMC-C2C-C3C	3.33	126.88	113.98
3	g	101	BCL	CBC-CAC-C3C	-3.33	106.34	113.41
3	b	102	BCL	CBC-CAC-C3C	-3.33	106.35	113.41
4	h	102	A1ELD	C31-C30-C29	3.33	132.85	123.20
3	C	102	BCL	CMC-C2C-C3C	3.33	126.85	113.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	a	102	BCL	CBC-CAC-C3C	-3.33	106.35	113.41
3	i	101	BCL	CBC-CAC-C3C	-3.33	106.36	113.41
3	h	101	BCL	CMC-C2C-C3C	3.33	126.84	113.98
3	f	101	BCL	CBC-CAC-C3C	-3.32	106.36	113.41
3	i	101	BCL	CMC-C2C-C3C	3.32	126.81	113.98
4	D	101	A1ELD	C31-C30-C29	3.32	132.81	123.20
4	c	102	A1ELD	C31-C30-C29	3.31	132.79	123.20
4	f	102	A1ELD	C34-C32-C31	3.29	124.19	119.01
3	c	101	BCL	CBC-CAC-C3C	-3.28	106.45	113.41
4	i	102	A1ELD	C9-C10-C13	3.28	124.17	119.01
3	F	101	BCL	CBC-CAC-C3C	-3.28	106.46	113.41
3	I	102	BCL	CBC-CAC-C3C	-3.28	106.46	113.41
3	I	101	BCL	C1-C2-C3	-3.28	120.83	126.20
4	D	101	A1ELD	C20-C19-C18	3.27	130.21	123.52
3	G	101	BCL	CBC-CAC-C3C	-3.27	106.48	113.41
4	f	102	A1ELD	C20-C19-C18	3.27	130.21	123.52
3	C	101	BCL	CBC-CAC-C3C	-3.27	106.48	113.41
3	B	101	BCL	CBC-CAC-C3C	-3.26	106.49	113.41
3	E	101	BCL	CBC-CAC-C3C	-3.26	106.49	113.41
4	h	102	A1ELD	C20-C19-C18	3.24	130.16	123.52
3	g	102	BCL	C1-C2-C3	-3.24	120.89	126.20
3	G	101	BCL	CMC-C2C-C3C	3.24	126.51	113.98
3	D	102	BCL	CBC-CAC-C3C	-3.23	106.55	113.41
4	d	103	A1ELD	C20-C19-C18	3.23	130.13	123.52
3	H	101	BCL	CMC-C2C-C3C	3.23	126.48	113.98
3	C	101	BCL	CMC-C2C-C3C	3.23	126.47	113.98
3	D	102	BCL	CMC-C2C-C3C	3.23	126.46	113.98
3	B	101	BCL	CMC-C2C-C3C	3.23	126.45	113.98
3	F	101	BCL	CMC-C2C-C3C	3.22	126.44	113.98
3	I	102	BCL	CMC-C2C-C3C	3.22	126.44	113.98
3	H	101	BCL	CBC-CAC-C3C	-3.22	106.59	113.41
3	A	101	BCL	CMC-C2C-C3C	3.21	126.41	113.98
3	A	101	BCL	CBC-CAC-C3C	-3.21	106.60	113.41
3	C	102	BCL	C1-C2-C3	-3.21	120.94	126.20
3	E	101	BCL	CMC-C2C-C3C	3.20	126.34	113.98
3	H	102	BCL	C1-C2-C3	-3.18	120.98	126.20
3	F	102	BCL	C1-C2-C3	-3.16	121.01	126.20
3	d	102	BCL	C1-C2-C3	-3.16	121.02	126.20
4	h	102	A1ELD	C34-C32-C31	3.15	123.97	119.01
4	c	102	A1ELD	C34-C32-C31	3.14	123.95	119.01
3	b	102	BCL	C1-C2-C3	-3.14	121.06	126.20
3	a	101	BCL	C1-C2-C3	-3.14	121.06	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	102	A1ELD	C20-C19-C18	3.13	129.93	123.52
4	D	101	A1ELD	C9-C10-C13	3.13	123.93	119.01
4	d	103	A1ELD	C9-C10-C13	3.09	123.88	119.01
4	h	102	A1ELD	C9-C10-C13	3.09	123.87	119.01
4	A	102	A1ELD	C8-C9-C10	3.09	130.81	126.23
4	d	103	A1ELD	C34-C32-C31	3.09	123.86	119.01
4	g	103	A1ELD	C34-C32-C31	3.07	123.83	119.01
3	E	102	BCL	C1-C2-C3	-3.06	121.18	126.20
3	E	102	BCL	C4-C3-C5	3.06	120.54	115.23
4	D	101	A1ELD	C34-C32-C31	3.05	123.80	119.01
4	i	102	A1ELD	C34-C32-C31	3.04	123.79	119.01
4	f	102	A1ELD	C24-C22-C21	3.02	123.76	119.01
3	e	101	BCL	CHD-C1D-C2D	-3.01	119.22	125.49
3	E	102	BCL	CBC-CAC-C3C	-3.01	107.04	113.41
4	a	103	A1ELD	C9-C10-C13	3.00	123.73	119.01
4	f	102	A1ELD	C33-C32-C31	-2.99	117.98	122.82
3	g	101	BCL	CHD-C1D-C2D	-2.99	119.28	125.49
3	a	101	BCL	C4-C3-C5	2.98	120.41	115.23
3	i	101	BCL	CHD-C1D-C2D	-2.98	119.30	125.49
3	G	101	BCL	C4-C3-C5	2.97	120.38	115.23
4	h	102	A1ELD	C33-C32-C31	-2.96	118.03	122.82
3	C	102	BCL	C3C-C4C-CHD	-2.95	117.17	123.39
4	c	102	A1ELD	C33-C32-C31	-2.95	118.03	122.82
3	d	101	BCL	CHD-C1D-C2D	-2.95	119.35	125.49
3	h	101	BCL	CHD-C1D-C2D	-2.95	119.36	125.49
3	c	101	BCL	CHD-C1D-C2D	-2.94	119.36	125.49
3	d	102	BCL	C4-C3-C5	2.94	120.33	115.23
3	b	102	BCL	C4-C3-C5	2.94	120.33	115.23
3	f	101	BCL	CHD-C1D-C2D	-2.93	119.40	125.49
4	D	101	A1ELD	C33-C32-C31	-2.93	118.08	122.82
4	g	103	A1ELD	C33-C32-C31	-2.92	118.08	122.82
3	H	101	BCL	C4-C3-C5	2.92	120.30	115.23
3	g	102	BCL	CBC-CAC-C3C	-2.92	107.22	113.41
3	F	101	BCL	C4-C3-C5	2.92	120.29	115.23
3	E	101	BCL	C3C-C4C-CHD	-2.91	117.25	123.39
3	F	102	BCL	C4-C3-C5	2.91	120.28	115.23
3	B	101	BCL	C4-C3-C5	2.91	120.28	115.23
3	I	101	BCL	C3C-C4C-CHD	-2.91	117.26	123.39
4	A	102	A1ELD	C24-C22-C21	2.91	123.58	119.01
3	D	102	BCL	C4-C3-C5	2.91	120.27	115.23
4	d	103	A1ELD	C33-C32-C31	-2.90	118.11	122.82
4	f	102	A1ELD	C23-C22-C21	-2.90	118.11	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	i	102	A1ELD	C33-C32-C31	-2.90	118.12	122.82
3	H	102	BCL	C1C-NC-C4C	-2.90	105.36	106.68
3	B	101	BCL	C3C-C4C-CHD	-2.90	117.29	123.39
3	H	102	BCL	C4-C3-C5	2.89	120.25	115.23
3	g	102	BCL	C4-C3-C5	2.89	120.24	115.23
4	A	102	A1ELD	C34-C32-C31	2.89	123.55	119.01
3	i	101	BCL	C1D-ND-C4D	2.89	108.34	106.31
3	I	101	BCL	C4-C3-C5	2.88	120.22	115.23
3	I	102	BCL	C4-C3-C5	2.87	120.22	115.23
3	d	102	BCL	C1C-NC-C4C	-2.87	105.37	106.68
3	E	101	BCL	C4-C3-C5	2.87	120.22	115.23
4	A	102	A1ELD	C17-C16-C18	-2.85	118.19	122.82
3	C	101	BCL	C3C-C4C-CHD	-2.85	117.38	123.39
3	D	102	BCL	C3C-C4C-CHD	-2.85	117.39	123.39
4	A	102	A1ELD	C23-C22-C21	-2.84	118.21	122.82
3	C	102	BCL	C4-C3-C5	2.84	120.16	115.23
3	H	101	BCL	C3C-C4C-CHD	-2.84	117.40	123.39
4	D	101	A1ELD	C17-C16-C18	-2.84	118.21	122.82
4	i	102	A1ELD	C20-C19-C18	2.84	129.33	123.52
3	E	101	BCL	O2A-CGA-CBA	2.84	120.49	111.83
3	A	101	BCL	C1C-NC-C4C	-2.84	105.39	106.68
4	c	102	A1ELD	C23-C22-C21	-2.83	118.23	122.82
4	c	102	A1ELD	C17-C16-C18	-2.83	118.23	122.82
3	F	101	BCL	C3C-C4C-CHD	-2.82	117.44	123.39
4	D	101	A1ELD	C15-C16-C18	2.82	123.45	119.01
3	G	101	BCL	C3C-C4C-CHD	-2.82	117.45	123.39
3	F	101	BCL	O2A-CGA-CBA	2.82	120.42	111.83
3	I	102	BCL	O2A-CGA-CBA	2.82	120.42	111.83
3	b	102	BCL	CHD-C1D-C2D	-2.82	119.63	125.49
3	B	101	BCL	O2A-CGA-CBA	2.81	120.42	111.83
4	c	102	A1ELD	C24-C22-C21	2.81	123.44	119.01
3	A	101	BCL	C3C-C4C-CHD	-2.81	117.46	123.39
3	b	102	BCL	C1C-NC-C4C	-2.81	105.40	106.68
4	g	103	A1ELD	C17-C16-C18	-2.81	118.26	122.82
4	i	102	A1ELD	C24-C22-C21	2.81	123.43	119.01
4	A	102	A1ELD	C15-C16-C18	2.81	123.43	119.01
4	f	102	A1ELD	C17-C16-C18	-2.81	118.26	122.82
4	f	102	A1ELD	C15-C16-C18	2.81	123.43	119.01
4	g	103	A1ELD	C31-C30-C29	2.80	131.31	123.20
3	H	101	BCL	O2A-CGA-CBA	2.80	120.37	111.83
3	D	102	BCL	O2A-CGA-CBA	2.80	120.37	111.83
4	d	103	A1ELD	C23-C22-C21	-2.80	118.28	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	b	101	BCL	CHD-C1D-C2D	-2.80	119.67	125.49
3	d	102	BCL	CHD-C1D-C2D	-2.79	119.67	125.49
4	a	103	A1ELD	C24-C22-C21	2.79	123.40	119.01
4	D	101	A1ELD	C23-C22-C21	-2.79	118.30	122.82
4	d	103	A1ELD	C24-C22-C21	2.79	123.39	119.01
3	A	101	BCL	O2A-CGA-CBA	2.79	120.33	111.83
4	d	103	A1ELD	C17-C16-C18	-2.79	118.30	122.82
4	a	103	A1ELD	C20-C19-C18	2.79	129.22	123.52
4	i	102	A1ELD	C23-C22-C21	-2.78	118.31	122.82
3	C	101	BCL	C4-C3-C5	2.78	120.06	115.23
4	a	103	A1ELD	C23-C22-C21	-2.78	118.31	122.82
4	g	103	A1ELD	C23-C22-C21	-2.78	118.31	122.82
3	G	101	BCL	C1C-NC-C4C	-2.77	105.41	106.68
4	A	102	A1ELD	C33-C32-C31	-2.77	118.32	122.82
4	c	102	A1ELD	C15-C16-C18	2.77	123.37	119.01
4	h	102	A1ELD	C17-C16-C18	-2.77	118.33	122.82
3	A	101	BCL	C4-C3-C5	2.77	120.03	115.23
3	b	102	BCL	C3B-C4B-NB	2.77	113.41	109.76
3	C	101	BCL	O2A-CGA-CBA	2.76	120.26	111.83
4	a	103	A1ELD	C17-C16-C18	-2.76	118.34	122.82
4	g	103	A1ELD	C24-C22-C21	2.76	123.35	119.01
4	D	101	A1ELD	C24-C22-C21	2.76	123.35	119.01
3	a	102	BCL	CHD-C1D-C2D	-2.76	119.75	125.49
3	a	102	BCL	C1-O2A-CGA	2.76	123.32	116.65
3	d	101	BCL	C1-O2A-CGA	2.75	123.31	116.65
3	G	101	BCL	O2A-CGA-CBA	2.75	120.22	111.83
4	g	103	A1ELD	C15-C16-C18	2.75	123.33	119.01
4	i	102	A1ELD	C17-C16-C18	-2.74	118.37	122.82
3	I	102	BCL	C3C-C4C-CHD	-2.74	117.61	123.39
3	a	102	BCL	C1D-ND-C4D	2.74	108.23	106.31
3	H	101	BCL	C1C-NC-C4C	-2.73	105.43	106.68
3	c	101	BCL	C1-O2A-CGA	2.73	123.26	116.65
4	a	103	A1ELD	C33-C32-C31	-2.73	118.40	122.82
3	g	101	BCL	C1D-ND-C4D	2.73	108.22	106.31
4	h	102	A1ELD	C23-C22-C21	-2.72	118.40	122.82
3	e	101	BCL	C1D-ND-C4D	2.72	108.22	106.31
3	a	101	BCL	CHD-C1D-C2D	-2.72	119.83	125.49
3	h	101	BCL	C1-O2A-CGA	2.72	123.23	116.65
4	d	103	A1ELD	C15-C16-C18	2.71	123.28	119.01
3	c	101	BCL	C1D-ND-C4D	2.71	108.21	106.31
4	h	102	A1ELD	C15-C16-C18	2.71	123.27	119.01
3	a	101	BCL	O2A-CGA-CBA	2.71	120.08	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	d	101	BCL	C1D-ND-C4D	2.71	108.21	106.31
3	g	101	BCL	C1-O2A-CGA	2.70	123.19	116.65
3	f	101	BCL	C1-O2A-CGA	2.70	123.19	116.65
4	h	102	A1ELD	C24-C22-C21	2.70	123.25	119.01
3	F	101	BCL	C1C-NC-C4C	-2.69	105.45	106.68
3	i	101	BCL	C1-O2A-CGA	2.69	123.16	116.65
3	e	101	BCL	C1-O2A-CGA	2.69	123.16	116.65
3	f	101	BCL	C1D-ND-C4D	2.68	108.19	106.31
3	b	101	BCL	C1D-ND-C4D	2.68	108.19	106.31
4	a	103	A1ELD	C34-C32-C31	2.68	123.22	119.01
3	C	101	BCL	C1C-NC-C4C	-2.68	105.46	106.68
4	a	103	A1ELD	C15-C16-C18	2.67	123.21	119.01
3	g	102	BCL	C1C-NC-C4C	-2.67	105.46	106.68
4	i	102	A1ELD	C15-C16-C18	2.67	123.20	119.01
3	b	101	BCL	C1-O2A-CGA	2.66	123.10	116.65
3	d	102	BCL	O2A-CGA-CBA	2.66	119.94	111.83
3	I	102	BCL	C1C-NC-C4C	-2.65	105.47	106.68
3	d	102	BCL	C3B-C4B-NB	2.65	113.26	109.76
3	D	102	BCL	C3B-C4B-NB	2.64	113.25	109.76
3	e	101	BCL	C1-C2-C3	-2.64	121.87	126.20
3	b	102	BCL	O2A-CGA-CBA	2.64	119.88	111.83
3	a	102	BCL	C1-C2-C3	-2.64	121.88	126.20
3	b	101	BCL	C1-C2-C3	-2.63	121.88	126.20
3	F	101	BCL	C3B-C4B-NB	2.63	113.23	109.76
3	i	101	BCL	O2D-CGD-O1D	-2.63	118.73	123.85
3	B	101	BCL	C3B-C4B-NB	2.62	113.22	109.76
3	B	101	BCL	C1C-NC-C4C	-2.62	105.48	106.68
3	a	101	BCL	C3C-C4C-CHD	-2.61	117.88	123.39
3	E	101	BCL	C3B-C4B-NB	2.61	113.21	109.76
3	F	102	BCL	O2D-CGD-O1D	-2.61	118.77	123.85
3	E	102	BCL	C1C-NC-C4C	-2.61	105.49	106.68
3	f	101	BCL	C1-C2-C3	-2.61	121.93	126.20
3	I	101	BCL	O2D-CGD-O1D	-2.61	118.78	123.85
3	E	102	BCL	O2A-CGA-CBA	2.59	119.75	111.83
3	C	102	BCL	O2D-CGD-O1D	-2.59	118.80	123.85
3	H	102	BCL	O2A-CGA-CBA	2.59	119.74	111.83
3	g	101	BCL	O2D-CGD-O1D	-2.59	118.80	123.85
3	i	101	BCL	C1-C2-C3	-2.59	121.95	126.20
3	c	101	BCL	C1-C2-C3	-2.58	121.96	126.20
3	G	101	BCL	C3B-C4B-NB	2.58	113.17	109.76
3	h	101	BCL	C1-C2-C3	-2.58	121.97	126.20
3	g	102	BCL	O2A-CGA-CBA	2.58	119.70	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	g	101	BCL	C1-C2-C3	-2.58	121.97	126.20
3	h	101	BCL	O2D-CGD-O1D	-2.58	118.83	123.85
3	F	102	BCL	O2A-CGA-CBA	2.58	119.69	111.83
3	H	102	BCL	O2D-CGD-O1D	-2.58	118.83	123.85
3	E	102	BCL	O2D-CGD-O1D	-2.58	118.83	123.85
3	c	101	BCL	O2D-CGD-O1D	-2.58	118.83	123.85
3	g	102	BCL	O2D-CGD-O1D	-2.57	118.84	123.85
3	e	101	BCL	O2D-CGD-O1D	-2.57	118.84	123.85
3	b	101	BCL	O2D-CGD-O1D	-2.57	118.84	123.85
3	d	101	BCL	C1-C2-C3	-2.56	122.00	126.20
3	C	101	BCL	C3B-C4B-NB	2.56	113.14	109.76
3	d	101	BCL	O2D-CGD-O1D	-2.56	118.87	123.85
3	A	101	BCL	C3B-C4B-NB	2.56	113.13	109.76
3	F	102	BCL	C1C-NC-C4C	-2.55	105.52	106.68
3	C	102	BCL	CHD-C1D-C2D	-2.55	120.18	125.49
3	h	101	BCL	C1D-ND-C4D	2.55	108.10	106.31
3	a	101	BCL	O2D-CGD-O1D	-2.54	118.90	123.85
3	H	101	BCL	C3B-C4B-NB	2.54	113.11	109.76
3	D	102	BCL	C1C-NC-C4C	-2.54	105.52	106.68
3	I	101	BCL	CHD-C1D-C2D	-2.52	120.24	125.49
3	c	101	BCL	CHC-C4B-C3B	-2.51	121.73	131.72
3	d	101	BCL	C3C-C4C-CHD	-2.50	118.11	123.39
3	b	102	BCL	O2D-CGD-O1D	-2.50	118.97	123.85
3	d	102	BCL	O2D-CGD-O1D	-2.50	118.98	123.85
3	f	101	BCL	O2D-CGD-O1D	-2.50	118.98	123.85
3	I	101	BCL	O2A-CGA-CBA	2.50	119.45	111.83
3	b	102	BCL	C3C-C4C-CHD	-2.49	118.13	123.39
3	b	101	BCL	CHC-C4B-C3B	-2.49	121.81	131.72
3	C	102	BCL	C3B-C4B-NB	2.49	113.04	109.76
3	a	102	BCL	O2D-CGD-O1D	-2.49	119.01	123.85
3	c	101	BCL	CHA-C4D-ND	2.48	137.67	132.55
3	g	101	BCL	CHA-C4D-ND	2.47	137.66	132.55
3	d	101	BCL	CHA-C4D-ND	2.47	137.66	132.55
3	e	101	BCL	CHA-C4D-ND	2.47	137.65	132.55
3	i	101	BCL	CHC-C4B-C3B	-2.47	121.90	131.72
3	a	102	BCL	CHA-C4D-ND	2.47	137.64	132.55
3	C	102	BCL	O2A-CGA-CBA	2.47	119.36	111.83
3	f	101	BCL	CHC-C4B-C3B	-2.46	121.93	131.72
3	h	101	BCL	CHA-C4D-ND	2.46	137.62	132.55
3	b	101	BCL	CHA-C4D-ND	2.46	137.62	132.55
3	f	101	BCL	CHA-C4D-ND	2.46	137.62	132.55
3	E	101	BCL	C1C-NC-C4C	-2.46	105.56	106.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	a	102	BCL	CHC-C4B-C3B	-2.46	121.96	131.72
3	F	102	BCL	CHC-C1C-NC	2.46	127.94	124.40
3	i	101	BCL	CHA-C4D-ND	2.45	137.61	132.55
3	g	101	BCL	CHC-C4B-C3B	-2.45	121.98	131.72
3	d	101	BCL	CHC-C4B-C3B	-2.45	122.00	131.72
3	f	101	BCL	C3C-C4C-CHD	-2.45	118.23	123.39
3	e	101	BCL	CHC-C4B-C3B	-2.44	122.03	131.72
3	h	101	BCL	C3C-C4C-CHD	-2.44	118.25	123.39
3	A	101	BCL	O2D-CGD-O1D	-2.44	119.11	123.85
3	I	102	BCL	O2D-CGD-O1D	-2.44	119.11	123.85
3	g	101	BCL	CMD-C2D-C1D	2.43	129.01	124.73
3	H	102	BCL	CHC-C1C-NC	2.42	127.89	124.40
3	e	101	BCL	C3C-C4C-CHD	-2.42	118.29	123.39
3	E	101	BCL	O2D-CGD-O1D	-2.42	119.15	123.85
3	E	102	BCL	C3C-C4C-CHD	-2.41	118.31	123.39
3	E	102	BCL	CHD-C1D-C2D	-2.41	120.47	125.49
3	h	101	BCL	CMD-C2D-C1D	2.41	128.97	124.73
3	F	101	BCL	O2D-CGD-O1D	-2.41	119.16	123.85
3	g	101	BCL	C3C-C4C-CHD	-2.41	118.32	123.39
3	h	101	BCL	CHC-C4B-C3B	-2.40	122.17	131.72
3	c	101	BCL	C3C-C4C-CHD	-2.40	118.33	123.39
3	I	101	BCL	C3B-C4B-NB	2.40	112.93	109.76
3	D	102	BCL	O2D-CGD-O1D	-2.40	119.18	123.85
3	I	102	BCL	C2A-C3A-C4A	-2.40	98.00	101.87
3	B	101	BCL	O2D-CGD-O1D	-2.39	119.19	123.85
3	g	102	BCL	CHC-C1C-NC	2.39	127.85	124.40
3	g	102	BCL	C3C-C4C-CHD	-2.39	118.36	123.39
3	H	101	BCL	O2D-CGD-O1D	-2.38	119.21	123.85
3	h	101	BCL	C3B-C4B-NB	2.38	112.90	109.76
3	a	101	BCL	C3B-C4B-NB	2.38	112.90	109.76
4	c	102	A1ELD	C8-C9-C10	2.37	129.74	126.23
4	g	103	A1ELD	C8-C9-C10	2.37	129.74	126.23
3	A	101	BCL	C1-C2-C3	-2.37	122.31	126.20
3	G	101	BCL	O2D-CGD-O1D	-2.37	119.24	123.85
3	a	102	BCL	C3C-C4C-CHD	-2.37	118.40	123.39
3	C	101	BCL	O2D-CGD-O1D	-2.37	119.24	123.85
3	C	102	BCL	CHA-C1A-NA	-2.36	121.06	126.39
3	i	101	BCL	O2A-CGA-CBA	2.35	119.01	111.83
3	a	102	BCL	C3B-C4B-NB	2.35	112.86	109.76
3	E	102	BCL	CHC-C1C-NC	2.35	127.79	124.40
3	E	101	BCL	C1-C2-C3	-2.35	122.34	126.20
3	i	101	BCL	CHA-C1A-NA	-2.35	121.07	126.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	101	BCL	C1-C2-C3	-2.35	122.35	126.20
3	D	102	BCL	C2A-C3A-C4A	-2.35	98.08	101.87
3	B	101	BCL	C1-C2-C3	-2.34	122.36	126.20
3	A	101	BCL	C2A-C3A-C4A	-2.34	98.09	101.87
3	F	102	BCL	CHA-C1A-NA	-2.34	121.09	126.39
3	B	101	BCL	CHA-C4D-ND	2.34	137.37	132.55
3	e	101	BCL	CMD-C2D-C1D	2.33	128.84	124.73
3	d	101	BCL	CMD-C2D-C1D	2.33	128.84	124.73
3	h	101	BCL	CHA-C1A-NA	-2.33	121.10	126.39
3	I	101	BCL	CHA-C4D-ND	2.33	137.37	132.55
3	F	101	BCL	C2A-C3A-C4A	-2.33	98.10	101.87
3	I	102	BCL	CHA-C4D-ND	2.33	137.36	132.55
3	g	101	BCL	CHA-C1A-NA	-2.33	121.11	126.39
3	f	101	BCL	CMD-C2D-C1D	2.33	128.83	124.73
3	H	101	BCL	CHA-C4D-ND	2.33	137.35	132.55
3	F	101	BCL	CHA-C4D-ND	2.33	137.35	132.55
3	b	101	BCL	C3C-C4C-CHD	-2.32	118.49	123.39
3	b	101	BCL	CHA-C1A-NA	-2.32	121.13	126.39
3	E	101	BCL	CHA-C4D-ND	2.32	137.34	132.55
3	e	101	BCL	O2A-CGA-CBA	2.32	118.91	111.83
3	b	101	BCL	CMD-C2D-C1D	2.32	128.81	124.73
3	b	102	BCL	CHA-C4D-ND	2.32	137.33	132.55
3	i	101	BCL	C3C-C4C-CHD	-2.32	118.50	123.39
3	E	102	BCL	CHA-C4D-ND	2.32	137.33	132.55
4	f	102	A1ELD	C2-C3-C4	-2.32	119.47	122.64
3	A	101	BCL	CHA-C4D-ND	2.32	137.33	132.55
3	b	101	BCL	O2A-CGA-CBA	2.31	118.89	111.83
3	G	101	BCL	CHA-C4D-ND	2.31	137.32	132.55
3	e	101	BCL	CHA-C1A-NA	-2.31	121.16	126.39
3	f	101	BCL	CHA-C1A-NA	-2.31	121.16	126.39
3	H	102	BCL	CHA-C1A-NA	-2.31	121.16	126.39
3	a	101	BCL	CHA-C4D-ND	2.31	137.31	132.55
3	I	102	BCL	C3B-C4B-NB	2.31	112.81	109.76
3	H	101	BCL	C2A-C3A-C4A	-2.31	98.14	101.87
3	f	101	BCL	O2A-CGA-CBA	2.31	118.87	111.83
3	d	102	BCL	CHA-C4D-ND	2.31	137.31	132.55
3	I	102	BCL	C1-C2-C3	-2.31	122.42	126.20
3	E	101	BCL	C2A-C3A-C4A	-2.31	98.15	101.87
3	H	102	BCL	CHA-C4D-ND	2.30	137.30	132.55
3	D	102	BCL	CHA-C4D-ND	2.30	137.30	132.55
3	g	102	BCL	CHA-C1A-NA	-2.30	121.18	126.39
3	c	101	BCL	CHA-C1A-NA	-2.30	121.19	126.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	101	BCL	CHA-C1A-NA	-2.30	121.19	126.39
3	c	101	BCL	CMD-C2D-C1D	2.29	128.77	124.73
3	d	101	BCL	O2A-CGA-CBA	2.29	118.83	111.83
3	g	102	BCL	CHA-C4D-ND	2.29	137.28	132.55
3	e	101	BCL	C3B-C4B-NB	2.29	112.78	109.76
3	g	101	BCL	O2A-CGA-CBA	2.29	118.81	111.83
3	a	102	BCL	O2A-CGA-CBA	2.29	118.81	111.83
3	E	102	BCL	CHA-C1A-NA	-2.29	121.21	126.39
3	h	101	BCL	O2A-CGA-CBA	2.29	118.81	111.83
3	g	101	BCL	C3B-C4B-NB	2.28	112.77	109.76
3	C	101	BCL	CHA-C4D-ND	2.28	137.26	132.55
3	C	102	BCL	CHA-C4D-ND	2.28	137.26	132.55
3	F	101	BCL	C1-C2-C3	-2.28	122.46	126.20
3	a	102	BCL	CHA-C1A-NA	-2.28	121.23	126.39
3	a	102	BCL	CMD-C2D-C1D	2.28	128.74	124.73
3	I	101	BCL	CHC-C1C-NC	2.28	127.69	124.40
3	F	102	BCL	CHA-C4D-ND	2.27	137.24	132.55
3	f	101	BCL	C3B-C4B-NB	2.27	112.76	109.76
3	a	101	BCL	CHC-C4B-C3B	-2.27	122.72	131.72
3	c	101	BCL	O2A-CGA-CBA	2.27	118.74	111.83
3	D	102	BCL	C1-C2-C3	-2.26	122.49	126.20
3	b	101	BCL	C3B-C4B-NB	2.26	112.75	109.76
3	i	101	BCL	C3B-C4B-NB	2.26	112.74	109.76
3	c	101	BCL	C3B-C4B-NB	2.26	112.74	109.76
3	d	101	BCL	CHA-C1A-NA	-2.26	121.28	126.39
3	G	101	BCL	C2A-C3A-C4A	-2.25	98.23	101.87
3	H	101	BCL	C1-C2-C3	-2.25	122.52	126.20
3	i	101	BCL	CMD-C2D-C1D	2.25	128.68	124.73
3	B	101	BCL	C2A-C3A-C4A	-2.24	98.25	101.87
4	i	102	A1ELD	C8-C9-C10	2.23	129.54	126.23
3	C	102	BCL	CHC-C1C-NC	2.23	127.61	124.40
3	d	102	BCL	C3C-C4C-CHD	-2.22	118.70	123.39
3	f	101	BCL	CHC-C1C-NC	2.21	127.59	124.40
3	d	101	BCL	C3B-C4B-NB	2.20	112.66	109.76
3	G	101	BCL	CHA-C1A-NA	-2.20	121.41	126.39
3	g	101	BCL	CHC-C1C-NC	2.20	127.58	124.40
3	C	101	BCL	C2A-C3A-C4A	-2.19	98.33	101.87
3	G	101	BCL	CMD-C2D-C1D	2.18	128.57	124.73
3	a	102	BCL	CHC-C1C-NC	2.18	127.54	124.40
3	c	101	BCL	CHC-C1C-NC	2.18	127.54	124.40
3	i	101	BCL	CHC-C1C-NC	2.17	127.54	124.40
3	F	101	BCL	CHA-C1A-NA	-2.17	121.47	126.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	e	101	BCL	CHC-C1C-NC	2.17	127.53	124.40
3	g	102	BCL	CHD-C1D-C2D	-2.17	120.98	125.49
3	d	102	BCL	CMD-C2D-C1D	2.17	128.54	124.73
3	d	102	BCL	CHA-C1A-NA	-2.17	121.49	126.39
3	b	101	BCL	CHC-C1C-NC	2.16	127.52	124.40
4	h	102	A1ELD	C8-C9-C10	2.16	129.44	126.23
3	d	102	BCL	C3C-C2C-C1C	-2.16	98.37	101.87
3	F	101	BCL	CMD-C2D-C1D	2.16	128.54	124.73
3	E	101	BCL	CHA-C1A-NA	-2.16	121.50	126.39
3	b	102	BCL	CMD-C2D-C1D	2.16	128.53	124.73
3	I	102	BCL	CHC-C4B-C3B	-2.16	123.15	131.72
3	D	102	BCL	CHA-C1A-NA	-2.16	121.51	126.39
3	H	101	BCL	CHA-C1A-NA	-2.16	121.51	126.39
3	b	102	BCL	CHA-C1A-NA	-2.16	121.51	126.39
3	I	102	BCL	CHA-C1A-NA	-2.15	121.52	126.39
3	A	101	BCL	CHA-C1A-NA	-2.15	121.53	126.39
3	a	101	BCL	CMD-C2D-C1D	2.14	128.50	124.73
3	H	102	BCL	CMD-C2D-C1D	2.14	128.50	124.73
3	C	101	BCL	CMD-C2D-C1D	2.14	128.50	124.73
3	F	102	BCL	CMD-C2D-C1D	2.14	128.50	124.73
3	D	102	BCL	CMD-C2D-C1D	2.14	128.50	124.73
4	f	102	A1ELD	C13-C14-C15	2.14	129.40	123.20
3	C	101	BCL	CHA-C1A-NA	-2.14	121.55	126.39
3	E	101	BCL	CMD-C2D-C1D	2.13	128.49	124.73
3	B	101	BCL	CHA-C1A-NA	-2.13	121.56	126.39
3	d	101	BCL	CHC-C1C-NC	2.13	127.47	124.40
3	a	101	BCL	C1C-NC-C4C	-2.12	105.71	106.68
3	b	102	BCL	CHC-C4B-C3B	-2.12	123.29	131.72
3	h	101	BCL	CHC-C1C-NC	2.12	127.46	124.40
3	a	101	BCL	CHA-C1A-NA	-2.12	121.60	126.39
3	H	101	BCL	CMD-C2D-C1D	2.11	128.45	124.73
3	B	101	BCL	CMD-C2D-C1D	2.11	128.45	124.73
3	E	102	BCL	CMD-C2D-C1D	2.11	128.44	124.73
3	F	102	BCL	C3C-C4C-CHD	-2.11	118.95	123.39
3	I	101	BCL	CMD-C2D-C1D	2.10	128.43	124.73
3	C	102	BCL	CMD-C2D-C1D	2.10	128.43	124.73
3	C	102	BCL	C1-O2A-CGA	2.10	121.72	116.65
3	G	101	BCL	C1-C2-C3	-2.09	122.77	126.20
3	d	102	BCL	CHC-C4B-C3B	-2.08	123.46	131.72
4	d	103	A1ELD	C8-C9-C10	2.08	129.31	126.23
4	A	102	A1ELD	C13-C14-C15	2.07	129.20	123.20
3	E	102	BCL	C3B-C4B-NB	2.07	112.49	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	g	102	BCL	CMD-C2D-C1D	2.07	128.37	124.73
3	H	102	BCL	O1D-CGD-CBD	-2.07	120.44	124.52
3	A	101	BCL	CMD-C2D-C1D	2.06	128.36	124.73
3	H	102	BCL	C3C-C2C-C1C	-2.05	98.55	101.87
3	g	102	BCL	O1D-CGD-CBD	-2.05	120.47	124.52
3	E	102	BCL	O1D-CGD-CBD	-2.05	120.47	124.52
3	F	102	BCL	O1D-CGD-CBD	-2.05	120.48	124.52
3	I	102	BCL	CMD-C2D-C1D	2.03	128.30	124.73
3	I	101	BCL	CHC-C4B-C3B	-2.03	123.66	131.72
3	I	101	BCL	O1D-CGD-CBD	-2.03	120.52	124.52
3	H	102	BCL	C3C-C4C-CHD	-2.02	119.13	123.39
3	g	102	BCL	C3B-C4B-NB	2.02	112.42	109.76
3	I	101	BCL	C1-O2A-CGA	2.02	121.53	116.65
3	F	102	BCL	C3C-C2C-C1C	-2.02	98.61	101.87
3	C	102	BCL	O1D-CGD-CBD	-2.02	120.54	124.52
3	B	101	BCL	CHC-C1C-NC	2.02	127.31	124.40
3	A	101	BCL	CHC-C1C-NC	2.01	127.30	124.40
3	I	102	BCL	CHC-C1C-NC	2.01	127.30	124.40
3	C	101	BCL	CHC-C1C-NC	2.00	127.29	124.40
3	f	101	BCL	C3B-C2B-C1B	-2.00	100.01	106.40
3	d	101	BCL	C3B-C2B-C1B	-2.00	100.01	106.40

There are no chirality outliers.

All (449) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	101	BCL	C4C-C3C-CAC-CBC
3	i	101	BCL	C4C-C3C-CAC-CBC
3	a	101	BCL	CHA-CBD-CGD-O1D
3	a	101	BCL	CHA-CBD-CGD-O2D
3	a	101	BCL	C2-C3-C5-C6
3	a	101	BCL	C4-C3-C5-C6
3	a	102	BCL	C2C-C3C-CAC-CBC
3	a	102	BCL	C4C-C3C-CAC-CBC
3	I	101	BCL	CHA-CBD-CGD-O2D
3	I	102	BCL	C3A-C2A-CAA-CBA
3	I	102	BCL	C4C-C3C-CAC-CBC
3	H	101	BCL	C3A-C2A-CAA-CBA
3	H	101	BCL	C4C-C3C-CAC-CBC
3	H	102	BCL	C4C-C3C-CAC-CBC
3	H	102	BCL	CHA-CBD-CGD-O2D
3	G	101	BCL	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
3	G	101	BCL	C4C-C3C-CAC-CBC
3	F	101	BCL	C3A-C2A-CAA-CBA
3	F	101	BCL	C4C-C3C-CAC-CBC
3	F	102	BCL	C4C-C3C-CAC-CBC
3	F	102	BCL	CHA-CBD-CGD-O2D
3	E	101	BCL	C3A-C2A-CAA-CBA
3	E	101	BCL	C4C-C3C-CAC-CBC
3	D	102	BCL	C3A-C2A-CAA-CBA
3	D	102	BCL	C4C-C3C-CAC-CBC
3	C	101	BCL	C4C-C3C-CAC-CBC
3	C	102	BCL	CHA-CBD-CGD-O2D
3	B	101	BCL	C4C-C3C-CAC-CBC
3	h	101	BCL	C2C-C3C-CAC-CBC
3	h	101	BCL	C4C-C3C-CAC-CBC
3	g	101	BCL	C4C-C3C-CAC-CBC
3	f	101	BCL	C4C-C3C-CAC-CBC
3	e	101	BCL	C4C-C3C-CAC-CBC
3	d	101	BCL	C2C-C3C-CAC-CBC
3	d	101	BCL	C4C-C3C-CAC-CBC
3	d	102	BCL	C4C-C3C-CAC-CBC
3	d	102	BCL	CHA-CBD-CGD-O1D
3	d	102	BCL	CHA-CBD-CGD-O2D
3	c	101	BCL	C4C-C3C-CAC-CBC
3	b	101	BCL	C4C-C3C-CAC-CBC
3	b	102	BCL	C4C-C3C-CAC-CBC
3	b	102	BCL	CHA-CBD-CGD-O1D
3	b	102	BCL	CHA-CBD-CGD-O2D
3	E	102	BCL	C4-C3-C5-C6
3	E	102	BCL	C2-C3-C5-C6
3	i	101	BCL	C3-C5-C6-C7
3	h	101	BCL	C3-C5-C6-C7
3	d	101	BCL	C3-C5-C6-C7
3	d	102	BCL	C4-C3-C5-C6
3	i	101	BCL	C2A-CAA-CBA-CGA
3	F	101	BCL	C3-C5-C6-C7
3	e	101	BCL	C3-C5-C6-C7
3	c	101	BCL	C3-C5-C6-C7
3	I	101	BCL	C11-C10-C8-C9
4	A	102	A1ELD	C11-C10-C9-C8
4	f	102	A1ELD	C11-C10-C9-C8
4	A	102	A1ELD	C13-C10-C9-C8
4	f	102	A1ELD	C13-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
3	g	101	BCL	C3-C5-C6-C7
3	G	101	BCL	CBD-CGD-O2D-CED
3	b	102	BCL	C4-C3-C5-C6
3	h	101	BCL	C2A-CAA-CBA-CGA
3	g	101	BCL	C2A-CAA-CBA-CGA
3	e	101	BCL	C2A-CAA-CBA-CGA
3	d	101	BCL	C2A-CAA-CBA-CGA
3	c	101	BCL	C2A-CAA-CBA-CGA
3	C	101	BCL	CBD-CGD-O2D-CED
3	E	102	BCL	C8-C10-C11-C12
3	f	101	BCL	C3-C5-C6-C7
3	d	102	BCL	C2-C3-C5-C6
3	I	101	BCL	C5-C6-C7-C8
3	a	102	BCL	C3-C5-C6-C7
3	H	101	BCL	C3-C5-C6-C7
3	D	102	BCL	C3-C5-C6-C7
3	f	101	BCL	C2A-CAA-CBA-CGA
3	b	101	BCL	C2A-CAA-CBA-CGA
3	A	101	BCL	C8-C10-C11-C12
3	I	102	BCL	C8-C10-C11-C12
3	C	101	BCL	C8-C10-C11-C12
3	B	101	BCL	C8-C10-C11-C12
3	E	101	BCL	C8-C10-C11-C12
3	b	102	BCL	C2-C3-C5-C6
3	b	101	BCL	C3-C5-C6-C7
4	i	102	A1ELD	C11-C10-C9-C8
4	a	103	A1ELD	C11-C10-C9-C8
4	D	101	A1ELD	C11-C10-C9-C8
4	h	102	A1ELD	C11-C10-C9-C8
4	g	103	A1ELD	C11-C10-C9-C8
4	d	103	A1ELD	C11-C10-C9-C8
4	c	102	A1ELD	C11-C10-C9-C8
4	i	102	A1ELD	C13-C10-C9-C8
4	a	103	A1ELD	C13-C10-C9-C8
4	D	101	A1ELD	C13-C10-C9-C8
4	h	102	A1ELD	C13-C10-C9-C8
4	g	103	A1ELD	C13-C10-C9-C8
4	d	103	A1ELD	C13-C10-C9-C8
4	c	102	A1ELD	C13-C10-C9-C8
3	a	102	BCL	C2A-CAA-CBA-CGA
3	H	102	BCL	C15-C16-C17-C18
3	F	102	BCL	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
3	g	102	BCL	C15-C16-C17-C18
3	b	102	BCL	C15-C16-C17-C18
3	C	102	BCL	C15-C16-C17-C18
3	A	101	BCL	C3A-C2A-CAA-CBA
3	C	101	BCL	C3A-C2A-CAA-CBA
3	B	101	BCL	C3A-C2A-CAA-CBA
3	I	101	BCL	C10-C11-C12-C13
3	E	102	BCL	C10-C11-C12-C13
3	A	101	BCL	C3-C5-C6-C7
3	I	101	BCL	C16-C17-C18-C19
3	E	102	BCL	C5-C6-C7-C8
3	d	102	BCL	C16-C17-C18-C19
3	B	101	BCL	CBD-CGD-O2D-CED
3	b	102	BCL	CBD-CGD-O2D-CED
3	E	101	BCL	CBD-CGD-O2D-CED
3	B	101	BCL	C3-C5-C6-C7
3	G	101	BCL	C3-C5-C6-C7
3	d	102	BCL	C15-C16-C17-C18
3	A	101	BCL	C1A-C2A-CAA-CBA
3	I	102	BCL	C1A-C2A-CAA-CBA
3	H	101	BCL	C1A-C2A-CAA-CBA
3	G	101	BCL	C1A-C2A-CAA-CBA
3	F	101	BCL	C1A-C2A-CAA-CBA
3	E	101	BCL	C1A-C2A-CAA-CBA
3	D	102	BCL	C1A-C2A-CAA-CBA
3	C	101	BCL	C1A-C2A-CAA-CBA
3	B	101	BCL	C1A-C2A-CAA-CBA
3	i	101	BCL	C11-C10-C8-C7
3	a	102	BCL	C6-C7-C8-C10
3	a	102	BCL	C11-C10-C8-C7
3	I	101	BCL	C6-C7-C8-C10
3	H	102	BCL	C11-C12-C13-C15
3	h	101	BCL	C6-C7-C8-C10
3	h	101	BCL	C11-C10-C8-C7
3	g	101	BCL	C6-C7-C8-C10
3	g	101	BCL	C11-C10-C8-C7
3	f	101	BCL	C6-C7-C8-C10
3	e	101	BCL	C6-C7-C8-C10
3	e	101	BCL	C11-C10-C8-C7
3	d	101	BCL	C11-C10-C8-C7
3	d	102	BCL	C11-C10-C8-C7
3	c	101	BCL	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
3	b	102	BCL	C11-C10-C8-C7
3	b	102	BCL	C11-C12-C13-C15
3	A	101	BCL	C2C-C3C-CAC-CBC
3	i	101	BCL	C2C-C3C-CAC-CBC
3	I	102	BCL	C2C-C3C-CAC-CBC
3	H	101	BCL	C2C-C3C-CAC-CBC
3	H	102	BCL	C2C-C3C-CAC-CBC
3	G	101	BCL	C2C-C3C-CAC-CBC
3	F	101	BCL	C2C-C3C-CAC-CBC
3	F	102	BCL	C2C-C3C-CAC-CBC
3	E	101	BCL	C2C-C3C-CAC-CBC
3	D	102	BCL	C2C-C3C-CAC-CBC
3	C	101	BCL	C2C-C3C-CAC-CBC
3	B	101	BCL	C2C-C3C-CAC-CBC
3	g	101	BCL	C2C-C3C-CAC-CBC
3	f	101	BCL	C2C-C3C-CAC-CBC
3	e	101	BCL	C2C-C3C-CAC-CBC
3	d	102	BCL	C2C-C3C-CAC-CBC
3	c	101	BCL	C2C-C3C-CAC-CBC
3	b	101	BCL	C2C-C3C-CAC-CBC
3	i	101	BCL	C6-C7-C8-C9
3	a	102	BCL	C6-C7-C8-C9
3	H	102	BCL	C11-C10-C8-C9
3	H	102	BCL	C11-C12-C13-C14
3	F	102	BCL	C11-C10-C8-C9
3	F	102	BCL	C11-C12-C13-C14
3	D	102	BCL	C11-C10-C8-C9
3	h	101	BCL	C6-C7-C8-C9
3	h	101	BCL	C11-C10-C8-C9
3	g	101	BCL	C6-C7-C8-C9
3	g	101	BCL	C11-C10-C8-C9
3	g	102	BCL	C11-C10-C8-C9
3	f	101	BCL	C6-C7-C8-C9
3	e	101	BCL	C6-C7-C8-C9
3	e	101	BCL	C11-C10-C8-C9
3	d	102	BCL	C11-C10-C8-C9
3	d	102	BCL	C11-C12-C13-C14
3	b	101	BCL	C6-C7-C8-C9
3	G	101	BCL	O1D-CGD-O2D-CED
4	i	102	A1ELD	C36-C37-O42-C41
4	D	101	A1ELD	C36-C37-O42-C41
4	h	102	A1ELD	C36-C37-O42-C41

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Mol	Chain	Res	Type	Atoms
4	g	103	A1ELD	C36-C37-O42-C41
4	f	102	A1ELD	C36-C37-O42-C41
4	d	103	A1ELD	C36-C37-O42-C41
4	c	102	A1ELD	C36-C37-O42-C41
3	I	101	BCL	C16-C17-C18-C20
3	d	102	BCL	C16-C17-C18-C20
3	b	101	BCL	C13-C15-C16-C17
3	C	101	BCL	O1D-CGD-O2D-CED
3	I	101	BCL	C15-C16-C17-C18
3	f	101	BCL	C13-C15-C16-C17
3	I	102	BCL	C3-C5-C6-C7
3	H	102	BCL	C4-C3-C5-C6
3	F	102	BCL	C4-C3-C5-C6
3	C	102	BCL	C16-C17-C18-C19
3	b	102	BCL	C16-C17-C18-C19
4	i	102	A1ELD	C38-C37-O42-C41
4	D	101	A1ELD	C38-C37-O42-C41
4	h	102	A1ELD	C38-C37-O42-C41
4	g	103	A1ELD	C38-C37-O42-C41
4	f	102	A1ELD	C38-C37-O42-C41
4	d	103	A1ELD	C38-C37-O42-C41
4	c	102	A1ELD	C38-C37-O42-C41
3	F	102	BCL	C16-C17-C18-C19
3	g	102	BCL	C16-C17-C18-C19
3	a	102	BCL	C4-C3-C5-C6
3	h	101	BCL	C4-C3-C5-C6
3	g	101	BCL	C4-C3-C5-C6
3	d	101	BCL	C4-C3-C5-C6
3	c	101	BCL	C4-C3-C5-C6
3	b	101	BCL	C4-C3-C5-C6
3	F	101	BCL	C2-C3-C5-C6
3	i	101	BCL	C11-C10-C8-C9
3	a	102	BCL	C11-C10-C8-C9
3	I	101	BCL	C6-C7-C8-C9
3	G	101	BCL	C11-C10-C8-C9
3	C	102	BCL	C11-C12-C13-C14
3	g	102	BCL	C11-C12-C13-C14
3	d	101	BCL	C6-C7-C8-C9
3	d	101	BCL	C11-C10-C8-C9
3	c	101	BCL	C6-C7-C8-C9
3	c	101	BCL	C11-C10-C8-C9
3	b	102	BCL	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
3	b	102	BCL	C11-C12-C13-C14
3	b	102	BCL	C5-C6-C7-C8
3	i	101	BCL	C6-C7-C8-C10
3	H	102	BCL	C11-C10-C8-C7
3	F	102	BCL	C11-C10-C8-C7
3	F	102	BCL	C11-C12-C13-C15
3	C	102	BCL	C11-C12-C13-C15
3	g	102	BCL	C11-C10-C8-C7
3	g	102	BCL	C11-C12-C13-C15
3	d	101	BCL	C6-C7-C8-C10
3	d	102	BCL	C6-C7-C8-C10
3	d	102	BCL	C11-C12-C13-C15
3	c	101	BCL	C6-C7-C8-C10
3	b	101	BCL	C6-C7-C8-C10
3	a	101	BCL	C5-C6-C7-C8
3	f	101	BCL	C4-C3-C5-C6
3	e	101	BCL	C4-C3-C5-C6
3	G	101	BCL	C2-C3-C5-C6
3	b	101	BCL	C2-C3-C5-C6
3	b	102	BCL	C8-C10-C11-C12
3	E	101	BCL	C3-C5-C6-C7
3	H	102	BCL	C16-C17-C18-C19
3	G	101	BCL	C4-C3-C5-C6
3	F	101	BCL	C4-C3-C5-C6
3	B	101	BCL	C4-C3-C5-C6
3	B	101	BCL	C2-C3-C5-C6
3	h	101	BCL	C2-C3-C5-C6
3	f	101	BCL	C2-C3-C5-C6
3	e	101	BCL	C2-C3-C5-C6
3	c	101	BCL	C2-C3-C5-C6
3	d	102	BCL	C8-C10-C11-C12
3	d	102	BCL	C5-C6-C7-C8
3	C	102	BCL	C16-C17-C18-C20
3	b	102	BCL	C16-C17-C18-C20
3	B	101	BCL	O1D-CGD-O2D-CED
3	I	102	BCL	C4-C3-C5-C6
3	H	101	BCL	C4-C3-C5-C6
3	D	102	BCL	C4-C3-C5-C6
3	H	101	BCL	C2-C3-C5-C6
3	D	102	BCL	C2-C3-C5-C6
3	g	101	BCL	C2-C3-C5-C6
3	d	101	BCL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
3	E	101	BCL	O1D-CGD-O2D-CED
3	H	101	BCL	C11-C10-C8-C9
3	a	101	BCL	C4C-C3C-CAC-CBC
3	I	101	BCL	C4C-C3C-CAC-CBC
3	a	102	BCL	C2-C3-C5-C6
3	I	102	BCL	C2-C3-C5-C6
3	g	102	BCL	C16-C17-C18-C20
3	F	102	BCL	C16-C17-C18-C20
3	C	102	BCL	C11-C10-C8-C7
3	C	102	BCL	C8-C10-C11-C12
3	b	102	BCL	O1D-CGD-O2D-CED
4	g	103	A1ELD	O13-C12-C27-C26
3	F	101	BCL	C11-C10-C8-C9
3	C	102	BCL	C11-C10-C8-C9
3	e	101	BCL	C16-C17-C18-C19
3	a	101	BCL	C16-C17-C18-C19
3	i	101	BCL	C4-C3-C5-C6
3	E	101	BCL	C4-C3-C5-C6
3	d	102	BCL	CBD-CGD-O2D-CED
3	H	102	BCL	C16-C17-C18-C20
3	D	102	BCL	CBD-CGD-O2D-CED
3	H	101	BCL	C6-C7-C8-C10
3	H	102	BCL	C6-C7-C8-C10
3	F	101	BCL	C6-C7-C8-C10
3	F	102	BCL	C6-C7-C8-C10
3	D	102	BCL	C6-C7-C8-C10
3	C	102	BCL	C6-C7-C8-C10
3	g	102	BCL	C6-C7-C8-C10
3	f	101	BCL	C11-C10-C8-C7
3	b	101	BCL	C11-C10-C8-C7
3	b	102	BCL	C6-C7-C8-C10
3	A	101	BCL	CBD-CGD-O2D-CED
3	d	102	BCL	C6-C7-C8-C9
3	H	102	BCL	C5-C6-C7-C8
3	a	102	BCL	C16-C17-C18-C19
3	g	101	BCL	C16-C17-C18-C19
3	H	101	BCL	CBD-CGD-O2D-CED
3	D	102	BCL	O1D-CGD-O2D-CED
3	C	101	BCL	C3-C5-C6-C7
3	H	101	BCL	O1D-CGD-O2D-CED
3	A	101	BCL	O1D-CGD-O2D-CED
3	H	102	BCL	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
3	E	102	BCL	C3-C5-C6-C7
3	I	101	BCL	CHA-CBD-CGD-O1D
3	H	102	BCL	CHA-CBD-CGD-O1D
3	F	102	BCL	CHA-CBD-CGD-O1D
3	E	102	BCL	CHA-CBD-CGD-O1D
3	E	102	BCL	CHA-CBD-CGD-O2D
3	C	102	BCL	CHA-CBD-CGD-O1D
3	g	102	BCL	CHA-CBD-CGD-O1D
3	g	102	BCL	CHA-CBD-CGD-O2D
3	g	102	BCL	C4-C3-C5-C6
3	i	101	BCL	C2-C3-C5-C6
3	F	102	BCL	C2-C3-C5-C6
3	E	101	BCL	C2-C3-C5-C6
3	C	102	BCL	C5-C6-C7-C8
3	I	101	BCL	C4-C3-C5-C6
4	A	102	A1ELD	C27-C29-C30-C31
4	i	102	A1ELD	C27-C29-C30-C31
4	a	103	A1ELD	C27-C29-C30-C31
4	D	101	A1ELD	C27-C29-C30-C31
4	h	102	A1ELD	C27-C29-C30-C31
4	g	103	A1ELD	C27-C29-C30-C31
4	f	102	A1ELD	C27-C29-C30-C31
4	d	103	A1ELD	C27-C29-C30-C31
4	c	102	A1ELD	C27-C29-C30-C31
3	e	101	BCL	C16-C17-C18-C20
3	a	101	BCL	C11-C10-C8-C9
3	f	101	BCL	C11-C10-C8-C9
3	b	101	BCL	C11-C10-C8-C9
3	a	101	BCL	C11-C10-C8-C7
3	d	102	BCL	O1D-CGD-O2D-CED
3	a	101	BCL	C16-C17-C18-C20
4	i	102	A1ELD	C39-C37-O42-C41
4	D	101	A1ELD	C39-C37-O42-C41
4	h	102	A1ELD	C39-C37-O42-C41
4	g	103	A1ELD	C39-C37-O42-C41
4	f	102	A1ELD	C39-C37-O42-C41
4	d	103	A1ELD	C39-C37-O42-C41
4	c	102	A1ELD	C39-C37-O42-C41
3	h	101	BCL	C16-C17-C18-C19
3	F	102	BCL	C5-C6-C7-C8
3	H	102	BCL	C6-C7-C8-C9
3	F	101	BCL	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
3	C	102	BCL	C6-C7-C8-C9
3	g	102	BCL	C6-C7-C8-C9
3	b	102	BCL	C6-C7-C8-C9
3	E	102	BCL	C11-C10-C8-C7
3	a	102	BCL	C16-C17-C18-C20
3	g	101	BCL	C16-C17-C18-C20
4	A	102	A1ELD	C30-C31-C32-C33
4	i	102	A1ELD	C30-C31-C32-C33
4	a	103	A1ELD	C30-C31-C32-C33
4	D	101	A1ELD	C30-C31-C32-C33
4	h	102	A1ELD	C30-C31-C32-C33
4	g	103	A1ELD	C30-C31-C32-C33
4	f	102	A1ELD	C30-C31-C32-C33
4	d	103	A1ELD	C30-C31-C32-C33
4	c	102	A1ELD	C30-C31-C32-C33
3	i	101	BCL	C2-C1-O2A-CGA
3	h	101	BCL	C2-C1-O2A-CGA
3	g	102	BCL	C2-C1-O2A-CGA
3	f	101	BCL	C2-C1-O2A-CGA
3	a	101	BCL	O1D-CGD-O2D-CED
3	F	102	BCL	C6-C7-C8-C9
3	E	102	BCL	C11-C10-C8-C9
3	f	101	BCL	C14-C13-C15-C16
3	a	101	BCL	CBD-CGD-O2D-CED
4	A	102	A1ELD	C30-C31-C32-C34
4	i	102	A1ELD	C30-C31-C32-C34
4	a	103	A1ELD	C30-C31-C32-C34
4	D	101	A1ELD	C30-C31-C32-C34
4	h	102	A1ELD	C30-C31-C32-C34
4	g	103	A1ELD	C30-C31-C32-C34
4	f	102	A1ELD	C30-C31-C32-C34
4	d	103	A1ELD	C30-C31-C32-C34
4	c	102	A1ELD	C30-C31-C32-C34
3	G	101	BCL	C6-C7-C8-C10
3	d	101	BCL	C16-C17-C18-C19
3	I	101	BCL	C2-C3-C5-C6
3	g	102	BCL	C2-C3-C5-C6
3	g	102	BCL	C5-C6-C7-C8
3	h	101	BCL	C16-C17-C18-C20
3	D	102	BCL	C6-C7-C8-C9
3	I	101	BCL	C2-C1-O2A-CGA
3	F	102	BCL	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
3	C	102	BCL	C2-C1-O2A-CGA
3	g	101	BCL	C2-C1-O2A-CGA
3	e	101	BCL	C2-C1-O2A-CGA
3	d	101	BCL	C2-C1-O2A-CGA
3	i	101	BCL	C3A-C2A-CAA-CBA
3	h	101	BCL	C3A-C2A-CAA-CBA
3	f	101	BCL	C3A-C2A-CAA-CBA
3	e	101	BCL	C3A-C2A-CAA-CBA
3	c	101	BCL	C3A-C2A-CAA-CBA
3	b	101	BCL	C3A-C2A-CAA-CBA
3	A	101	BCL	C16-C17-C18-C19
3	I	101	BCL	C2B-C3B-CAB-OBB
3	E	102	BCL	C2B-C3B-CAB-OBB
3	C	102	BCL	C2B-C3B-CAB-OBB
3	g	102	BCL	C2B-C3B-CAB-OBB
3	d	102	BCL	C2B-C3B-CAB-OBB
3	b	102	BCL	C2B-C3B-CAB-OBB
3	H	101	BCL	C6-C7-C8-C9
3	A	101	BCL	C4-C3-C5-C6
3	A	101	BCL	C2-C3-C5-C6
3	I	101	BCL	C11-C12-C13-C15
3	E	102	BCL	C6-C7-C8-C10
3	a	102	BCL	C2-C1-O2A-CGA
3	H	102	BCL	C2-C1-O2A-CGA
3	E	102	BCL	C2-C1-O2A-CGA
3	d	102	BCL	C2-C1-O2A-CGA
3	b	102	BCL	C2-C1-O2A-CGA
3	C	101	BCL	C2-C3-C5-C6
3	C	101	BCL	C4-C3-C5-C6
3	b	101	BCL	C14-C13-C15-C16
3	E	102	BCL	C15-C16-C17-C18
3	i	101	BCL	C1A-C2A-CAA-CBA
3	h	101	BCL	C1A-C2A-CAA-CBA
3	g	101	BCL	C1A-C2A-CAA-CBA
3	f	101	BCL	C1A-C2A-CAA-CBA
3	e	101	BCL	C1A-C2A-CAA-CBA
3	d	101	BCL	C1A-C2A-CAA-CBA
3	c	101	BCL	C1A-C2A-CAA-CBA
3	b	101	BCL	C1A-C2A-CAA-CBA
3	C	101	BCL	C16-C17-C18-C19
3	B	101	BCL	C16-C17-C18-C19
3	F	102	BCL	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
3	f	101	BCL	C15-C16-C17-C18
3	a	101	BCL	C2-C1-O2A-CGA
3	c	101	BCL	C2-C1-O2A-CGA
3	b	101	BCL	C2-C1-O2A-CGA
3	H	102	BCL	C2B-C3B-CAB-OBB
3	F	102	BCL	C2B-C3B-CAB-OBB
3	E	101	BCL	C16-C17-C18-C19
3	H	102	BCL	C8-C10-C11-C12
3	a	102	BCL	C3A-C2A-CAA-CBA
3	g	101	BCL	C3A-C2A-CAA-CBA
3	d	101	BCL	C3A-C2A-CAA-CBA
3	G	101	BCL	C6-C7-C8-C9
3	d	101	BCL	C16-C17-C18-C20

There are no ring outliers.

35 monomers are involved in 88 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	h	101	BCL	3	0
3	H	102	BCL	3	0
3	g	102	BCL	3	0
3	E	102	BCL	4	0
4	f	102	A1ELD	1	0
3	g	101	BCL	3	0
3	H	101	BCL	3	0
3	I	102	BCL	5	0
3	b	102	BCL	3	0
3	B	101	BCL	5	0
4	i	102	A1ELD	2	0
3	D	102	BCL	3	0
3	G	101	BCL	4	0
3	d	102	BCL	3	0
4	h	102	A1ELD	1	0
4	c	102	A1ELD	1	0
3	E	101	BCL	6	0
3	d	101	BCL	4	0
3	b	101	BCL	5	0
3	i	101	BCL	4	0
4	D	101	A1ELD	1	0
4	a	103	A1ELD	2	0
4	g	103	A1ELD	1	0
3	C	101	BCL	5	0

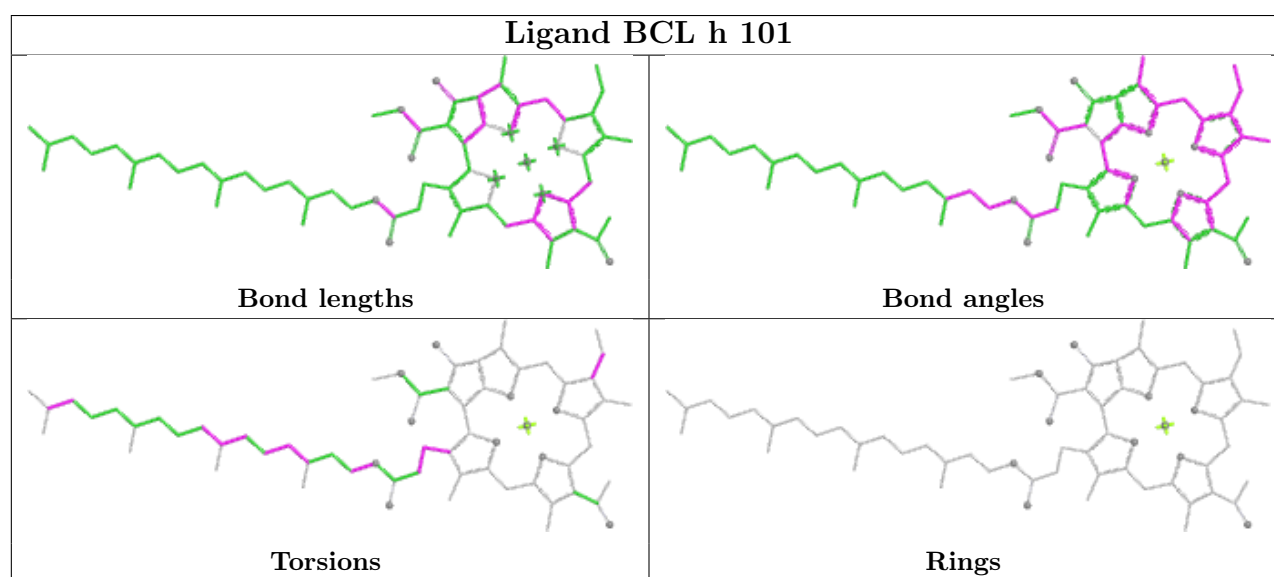
*Continued on next page...*

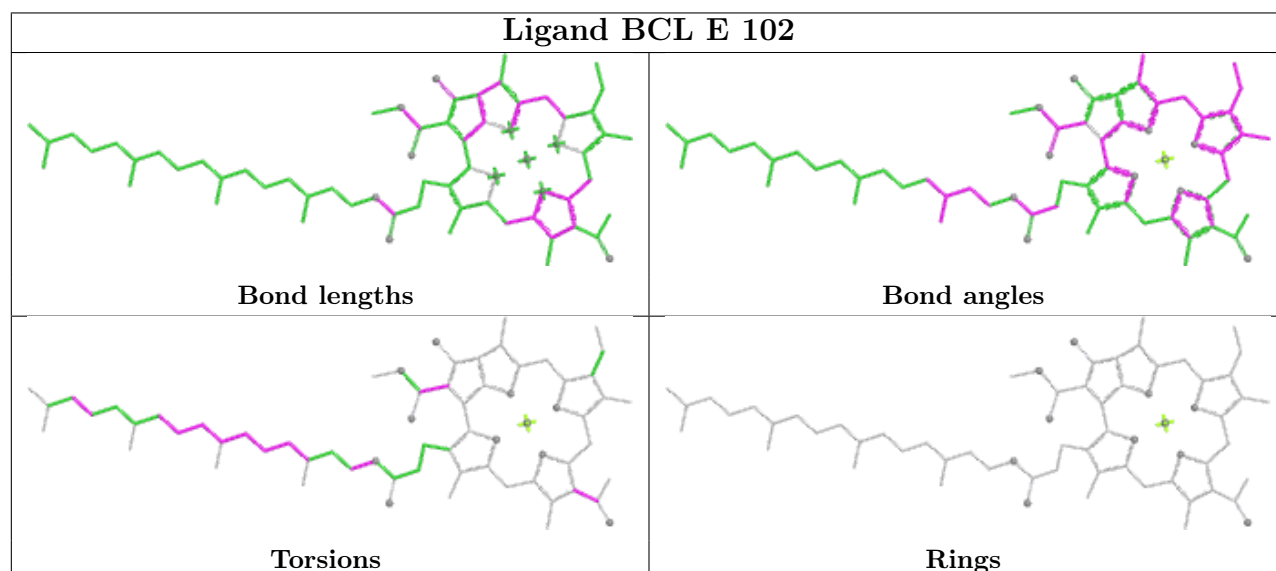
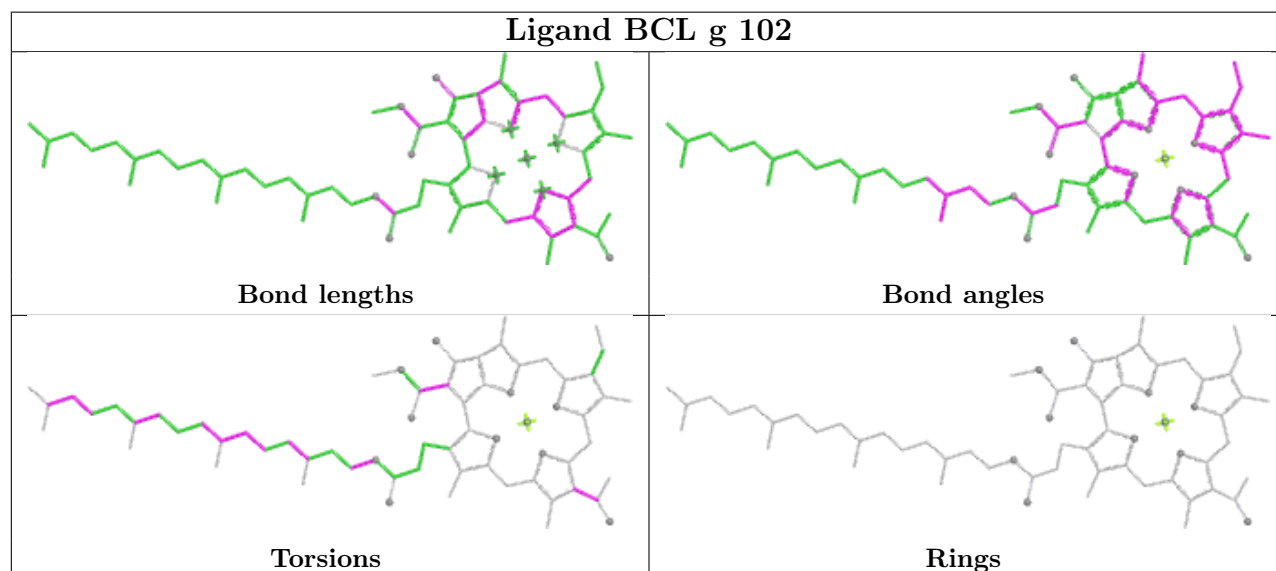
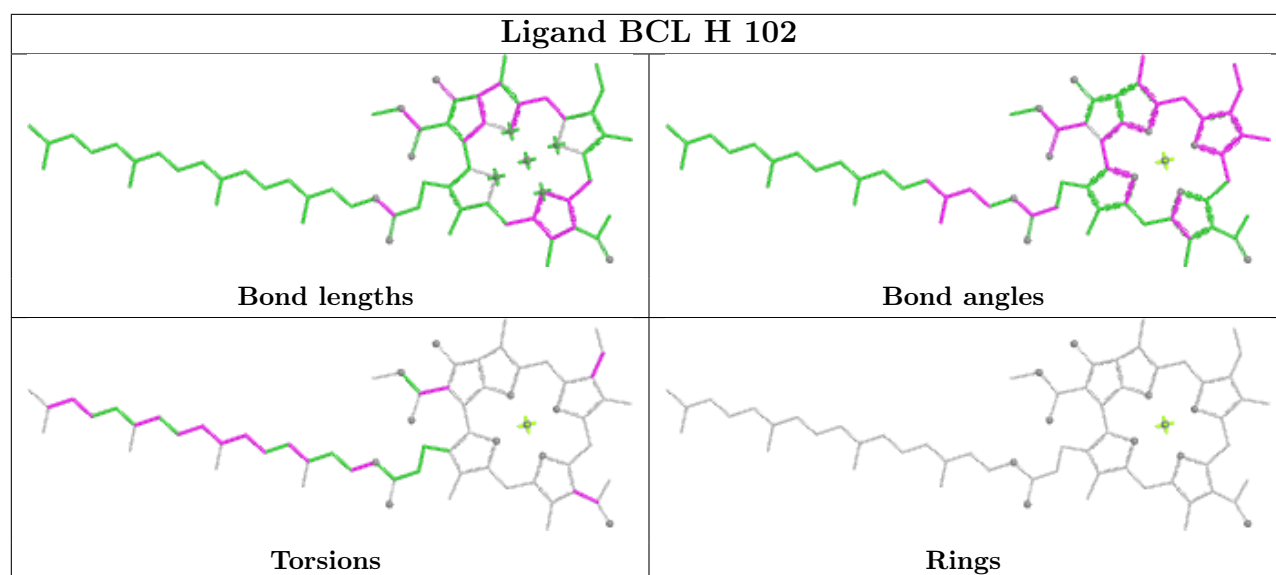


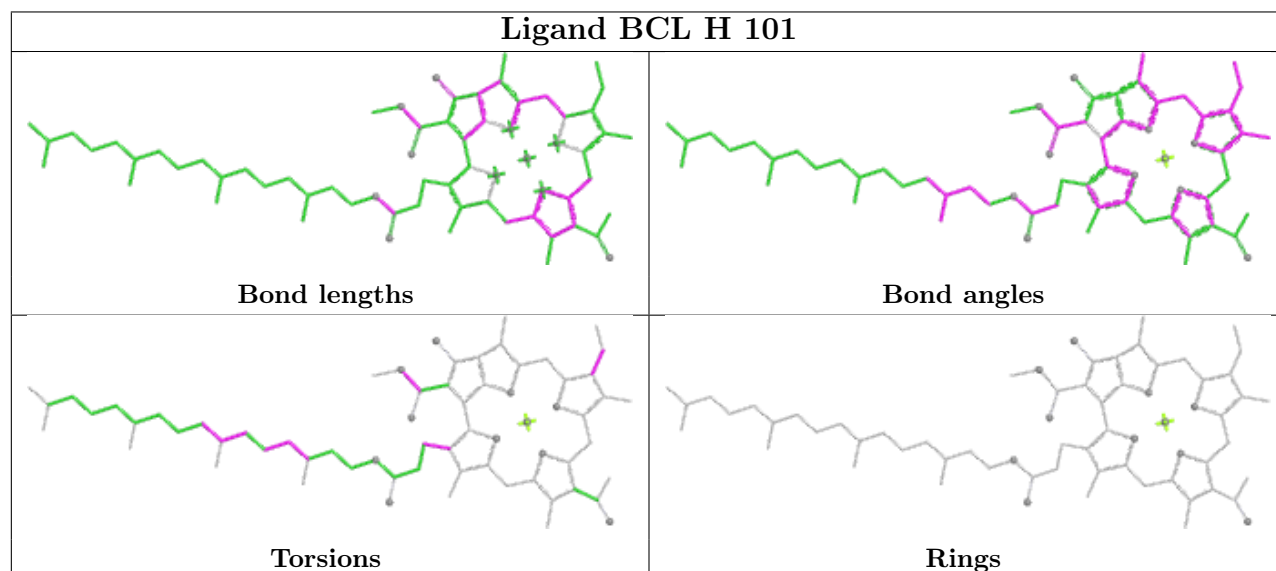
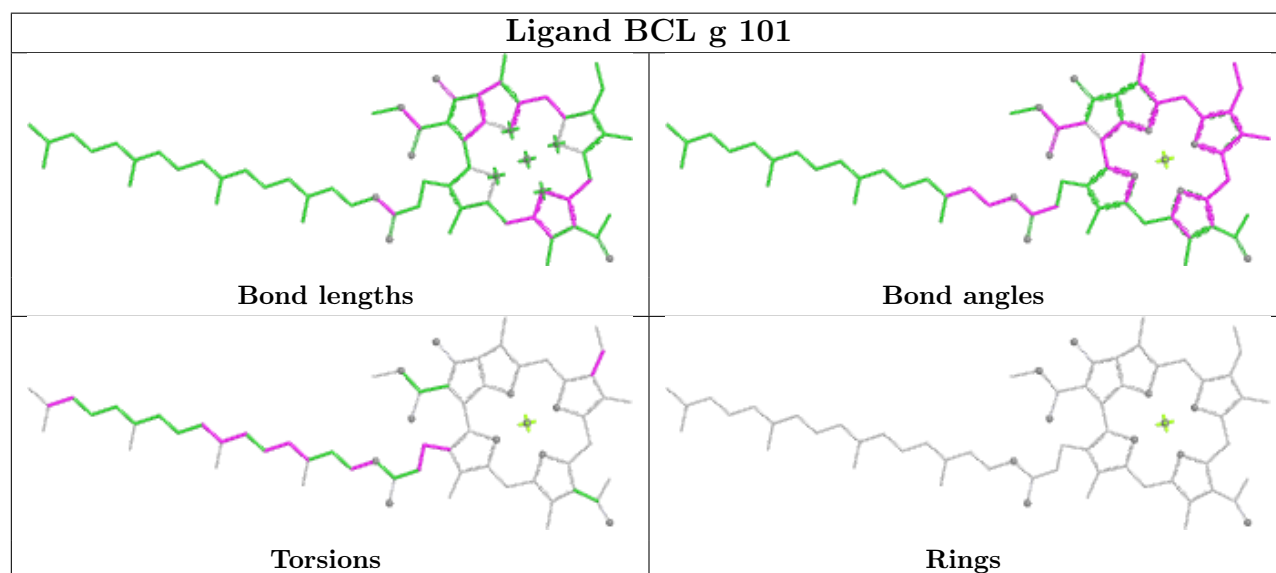
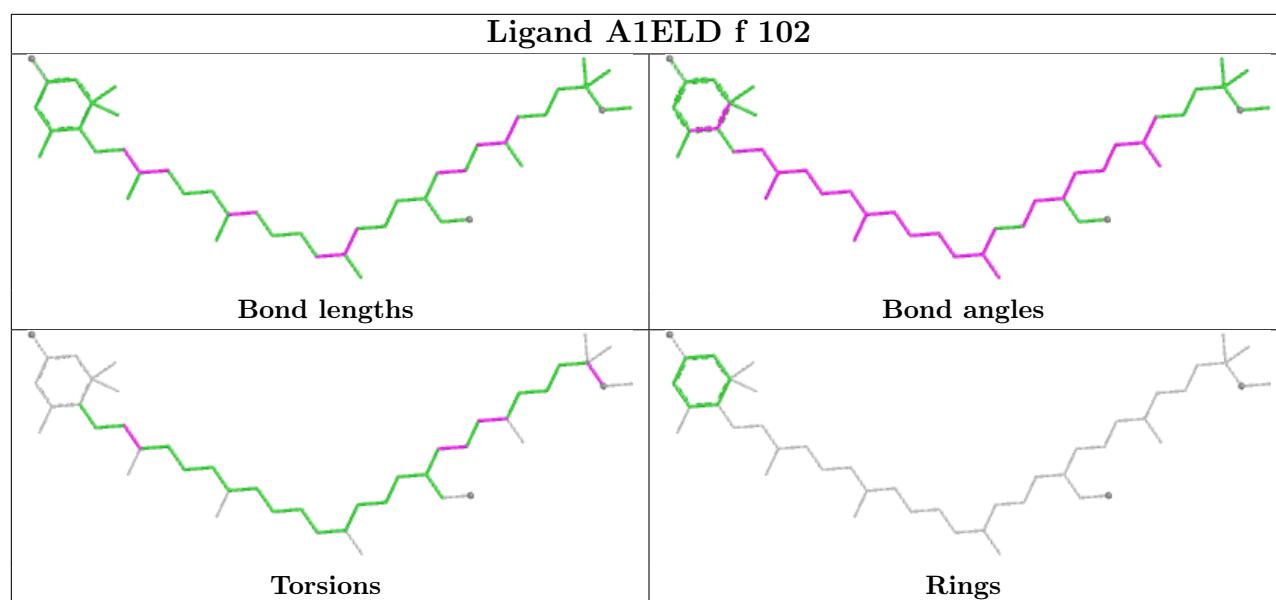
*Continued from previous page...*

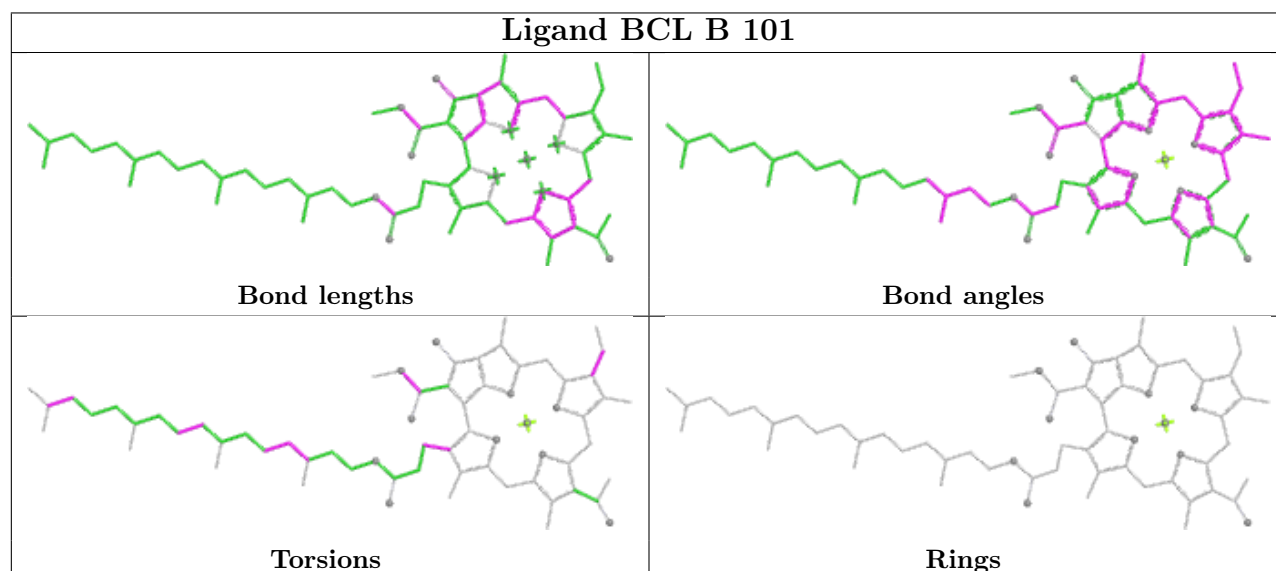
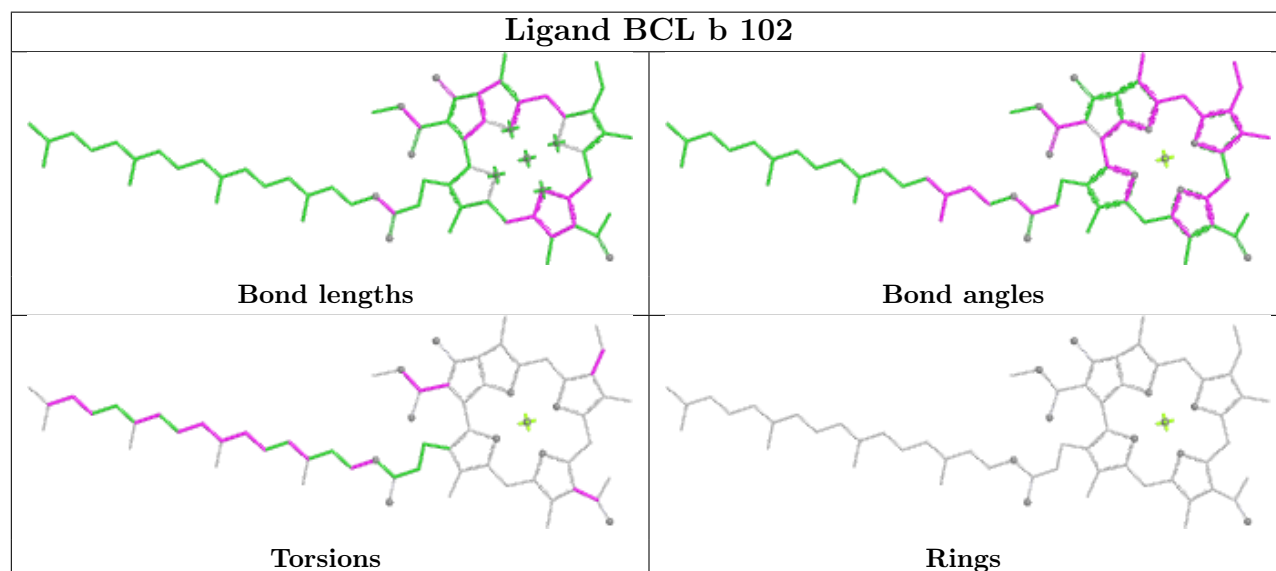
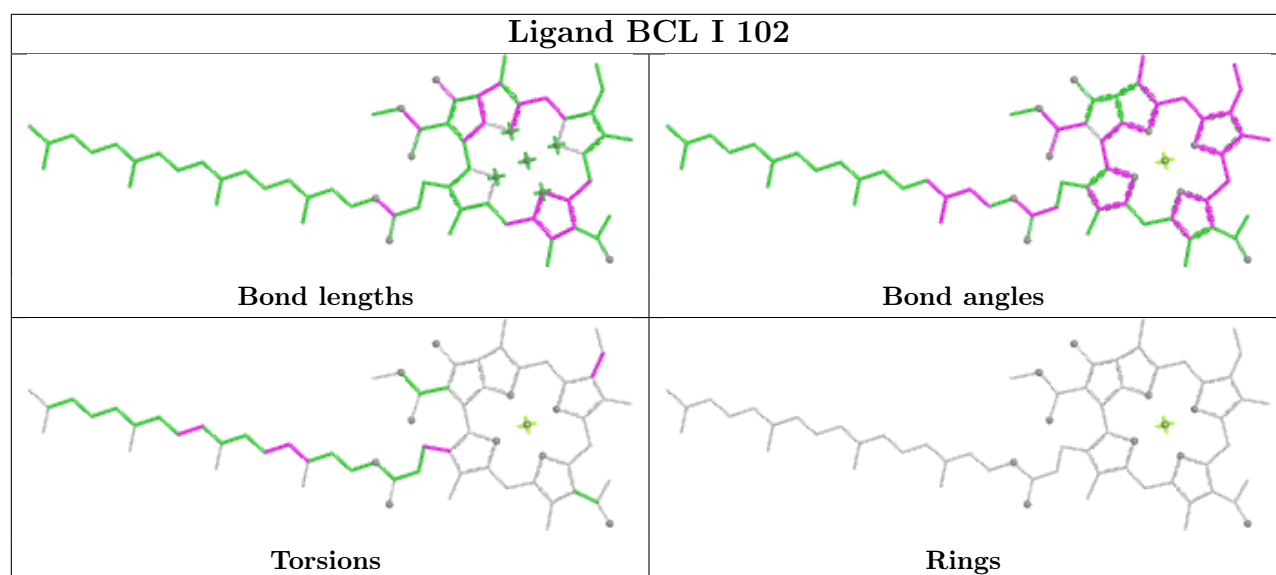
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	102	BCL	1	0
3	I	101	BCL	3	0
3	F	101	BCL	3	0
3	f	101	BCL	3	0
3	c	101	BCL	3	0
3	a	101	BCL	2	0
3	F	102	BCL	3	0
4	d	103	A1ELD	1	0
3	a	102	BCL	2	0
3	A	101	BCL	5	0
3	e	101	BCL	3	0

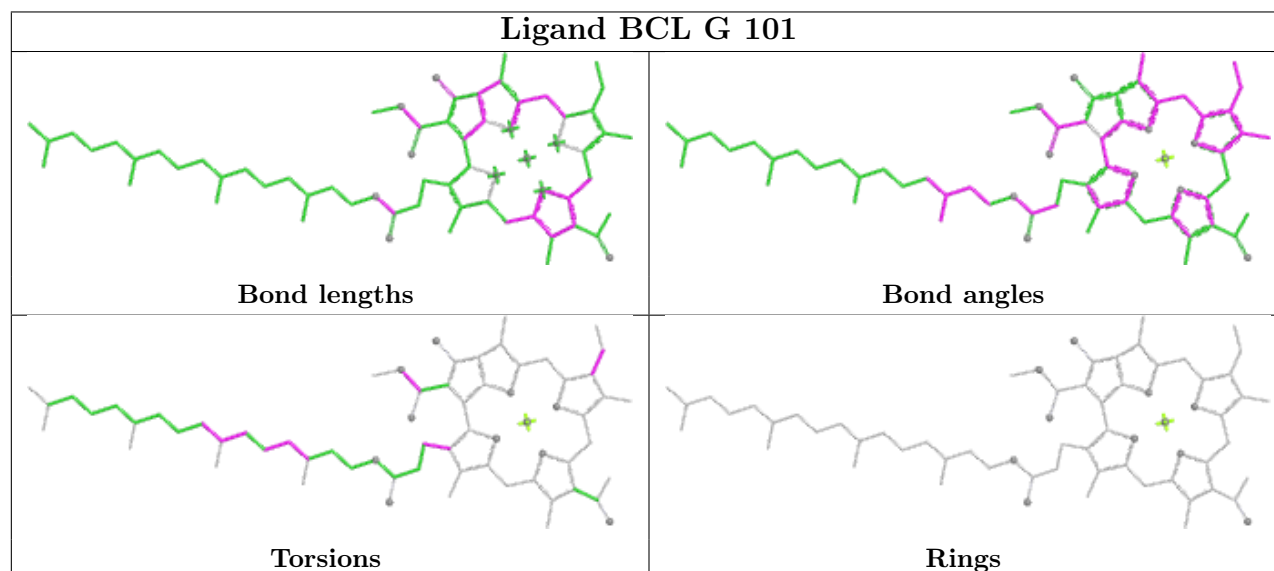
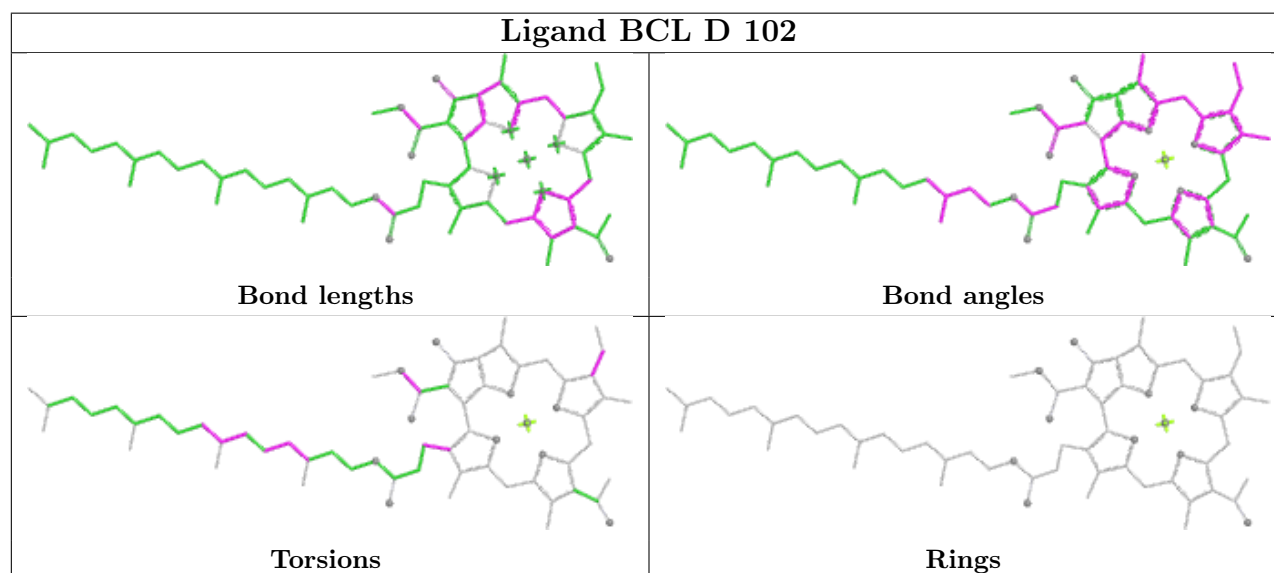
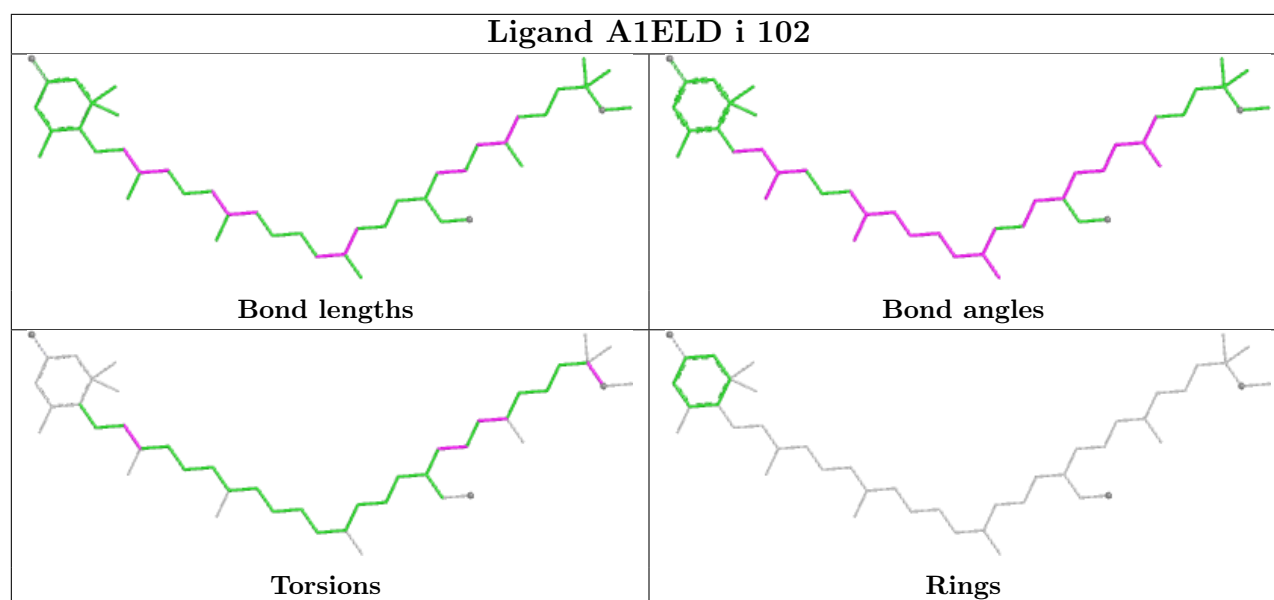
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

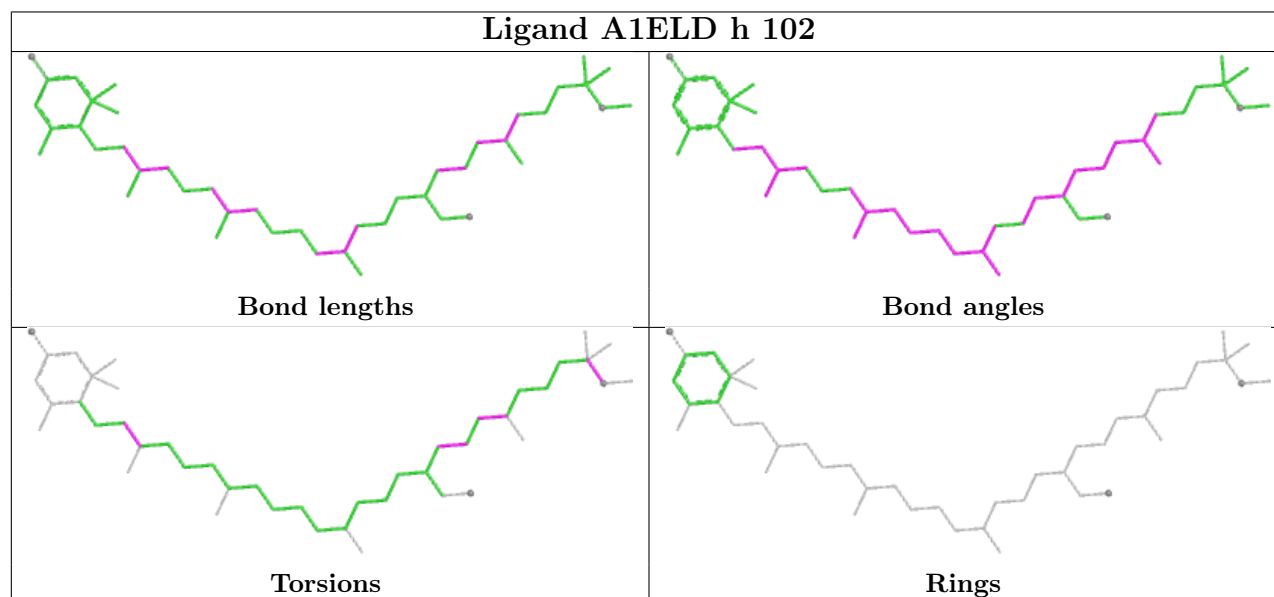
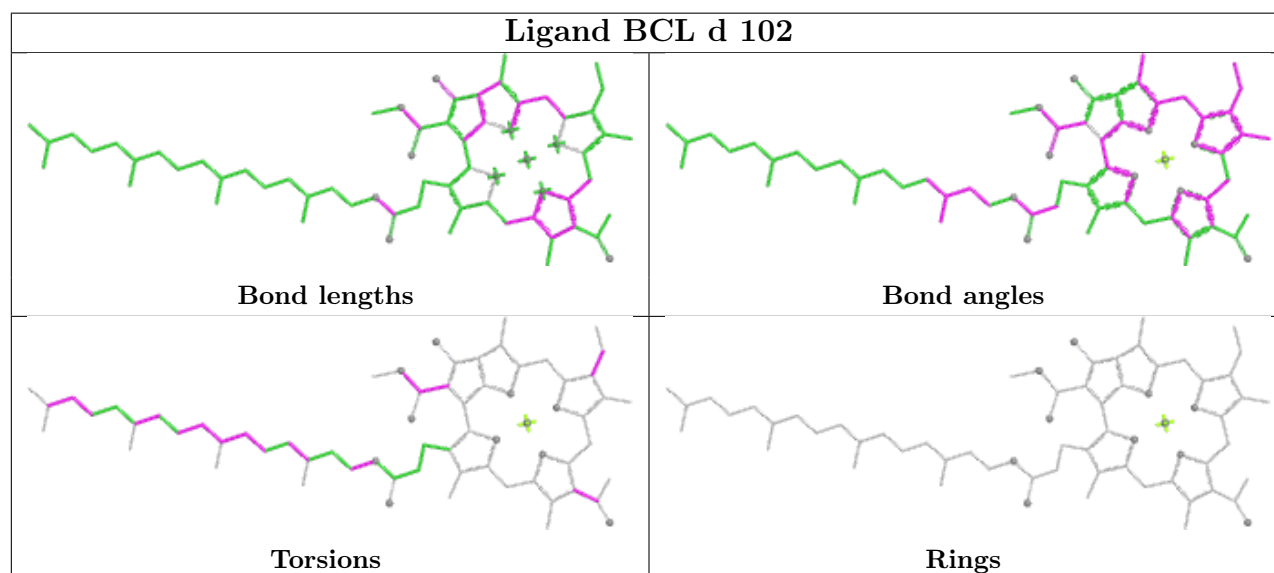
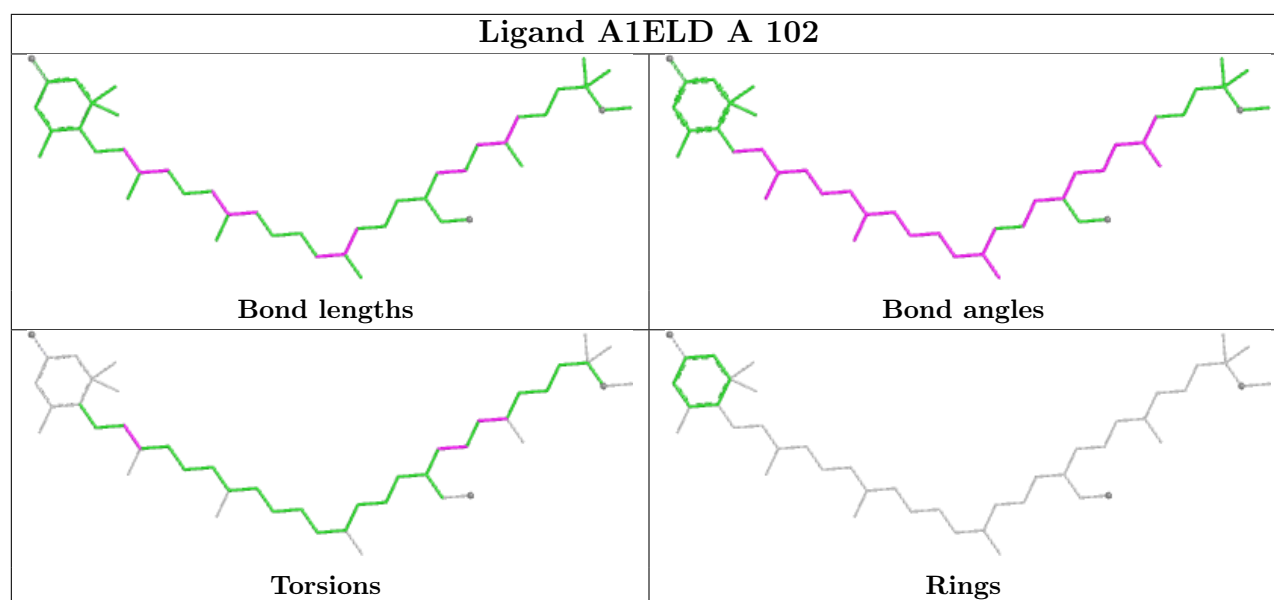


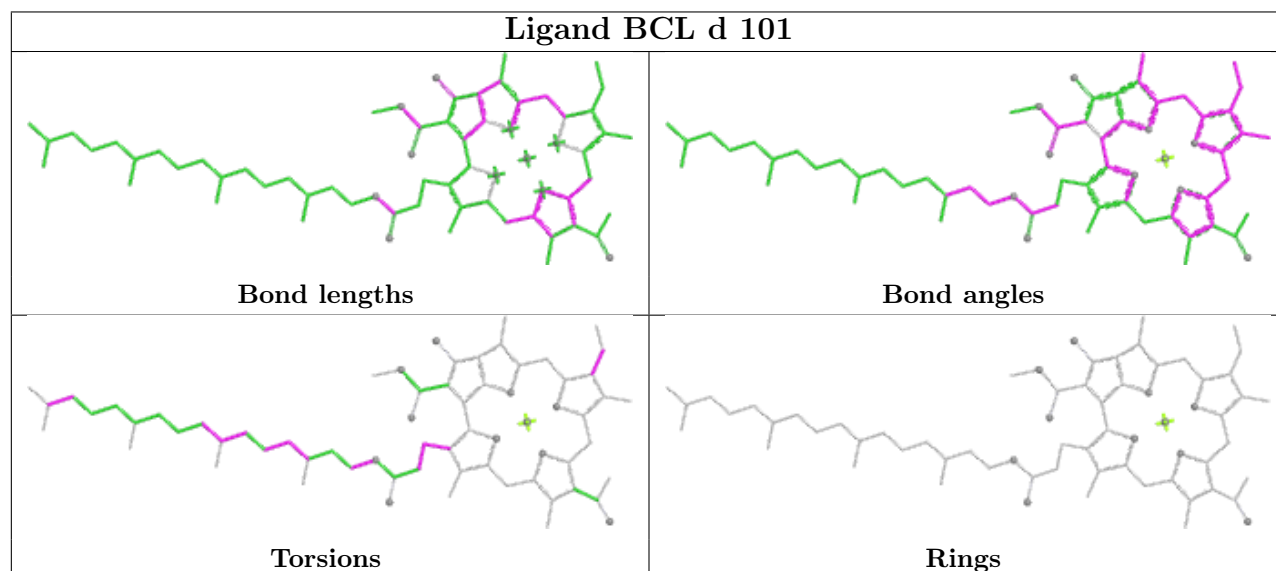
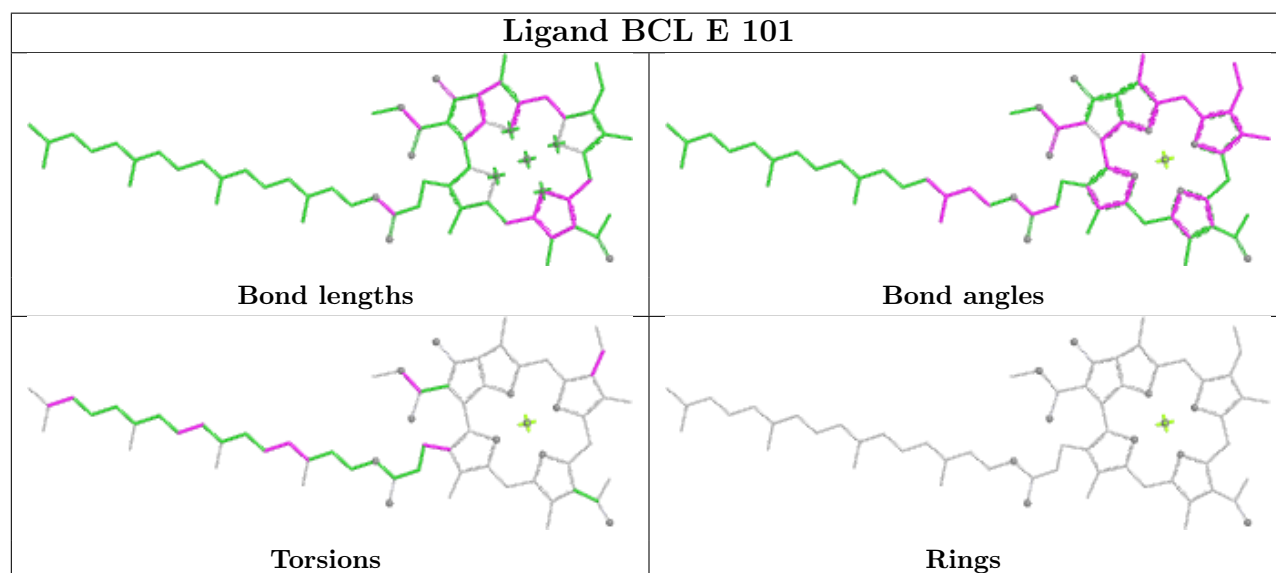
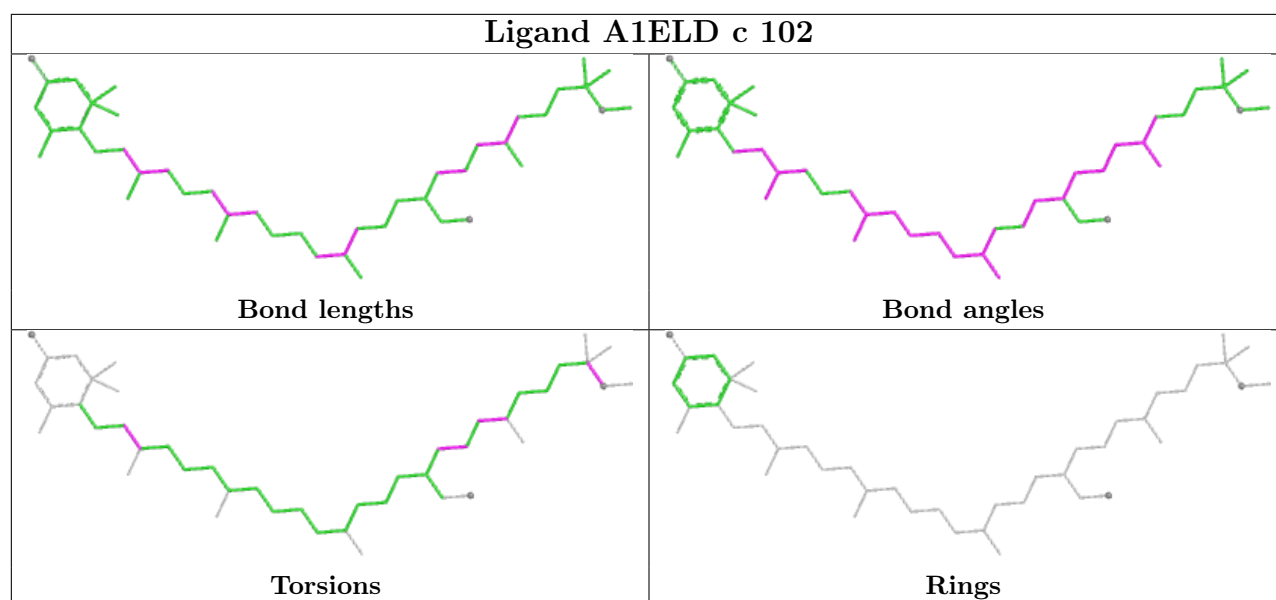


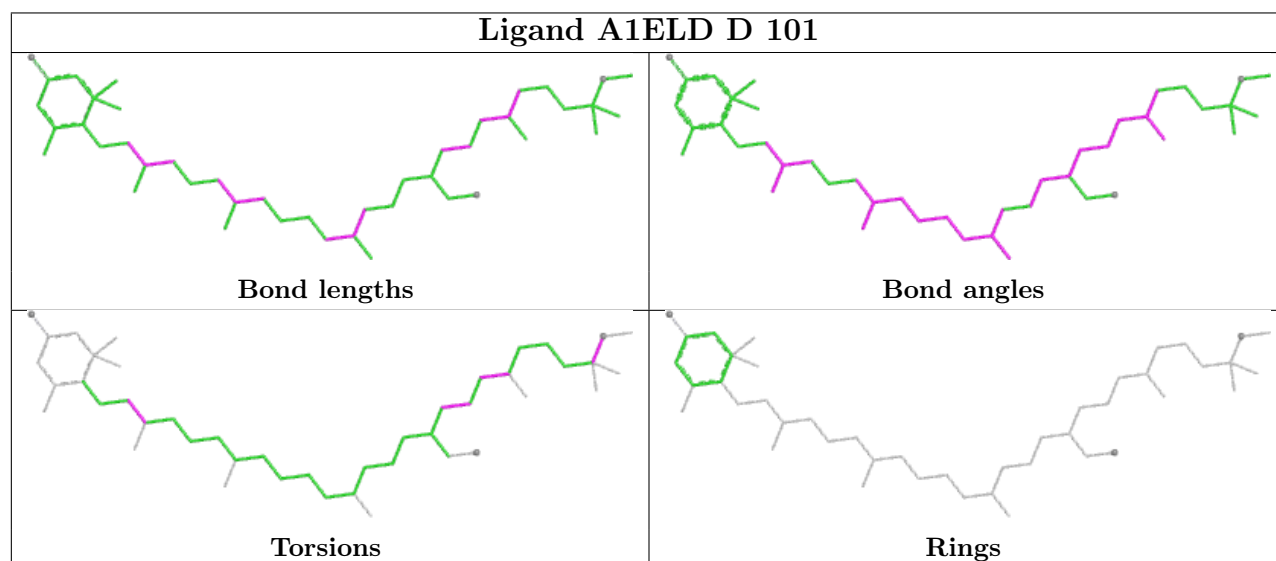
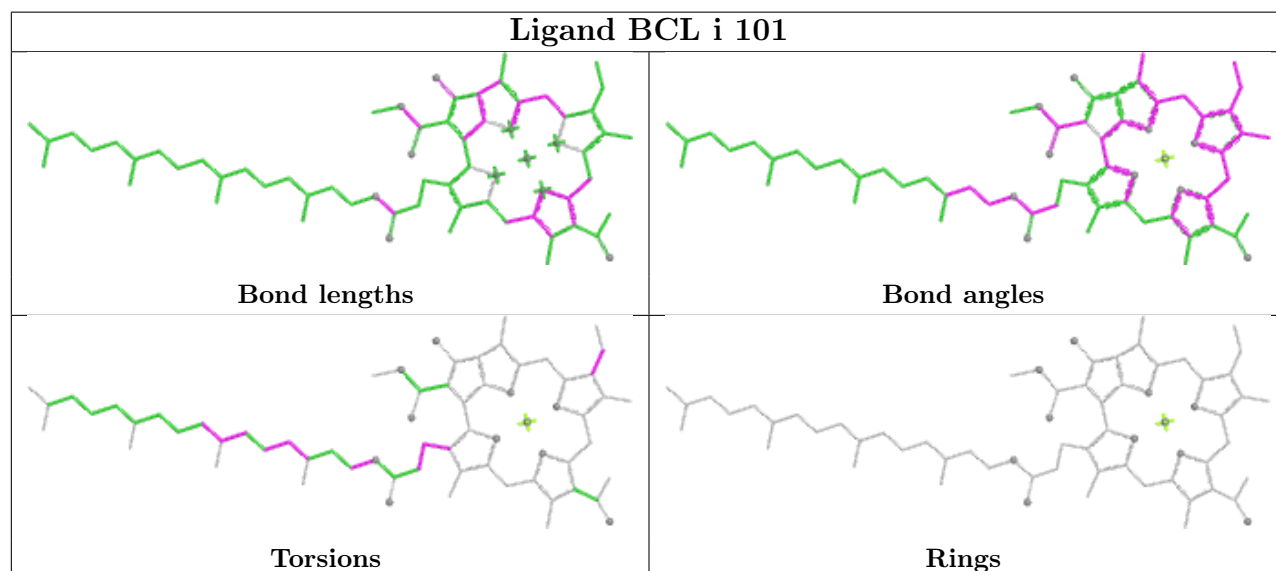
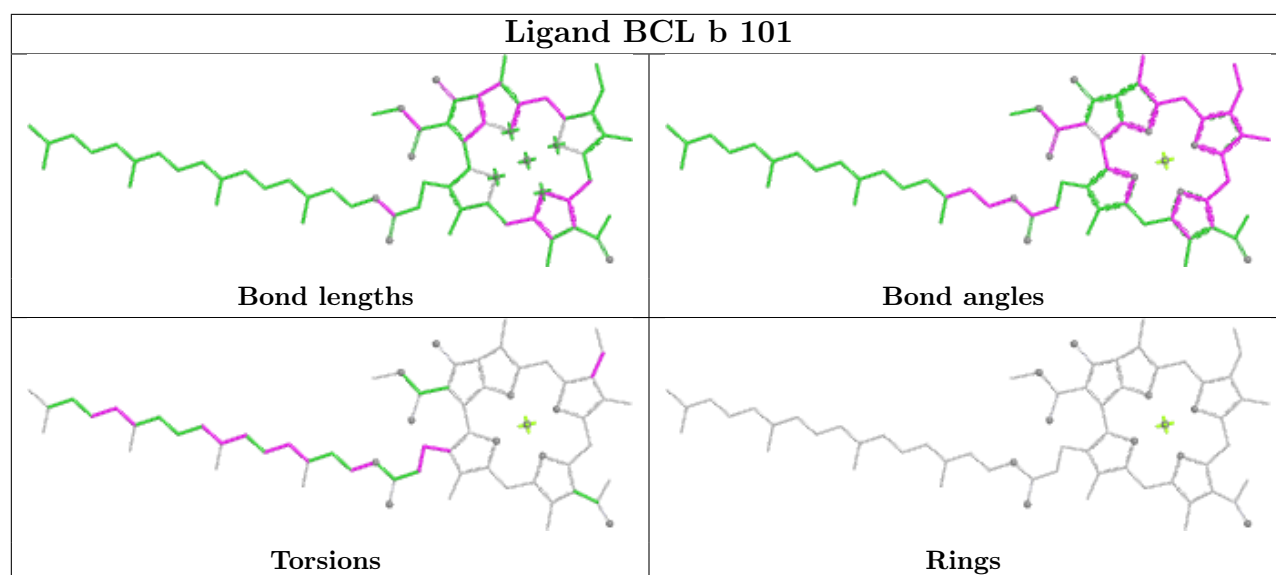




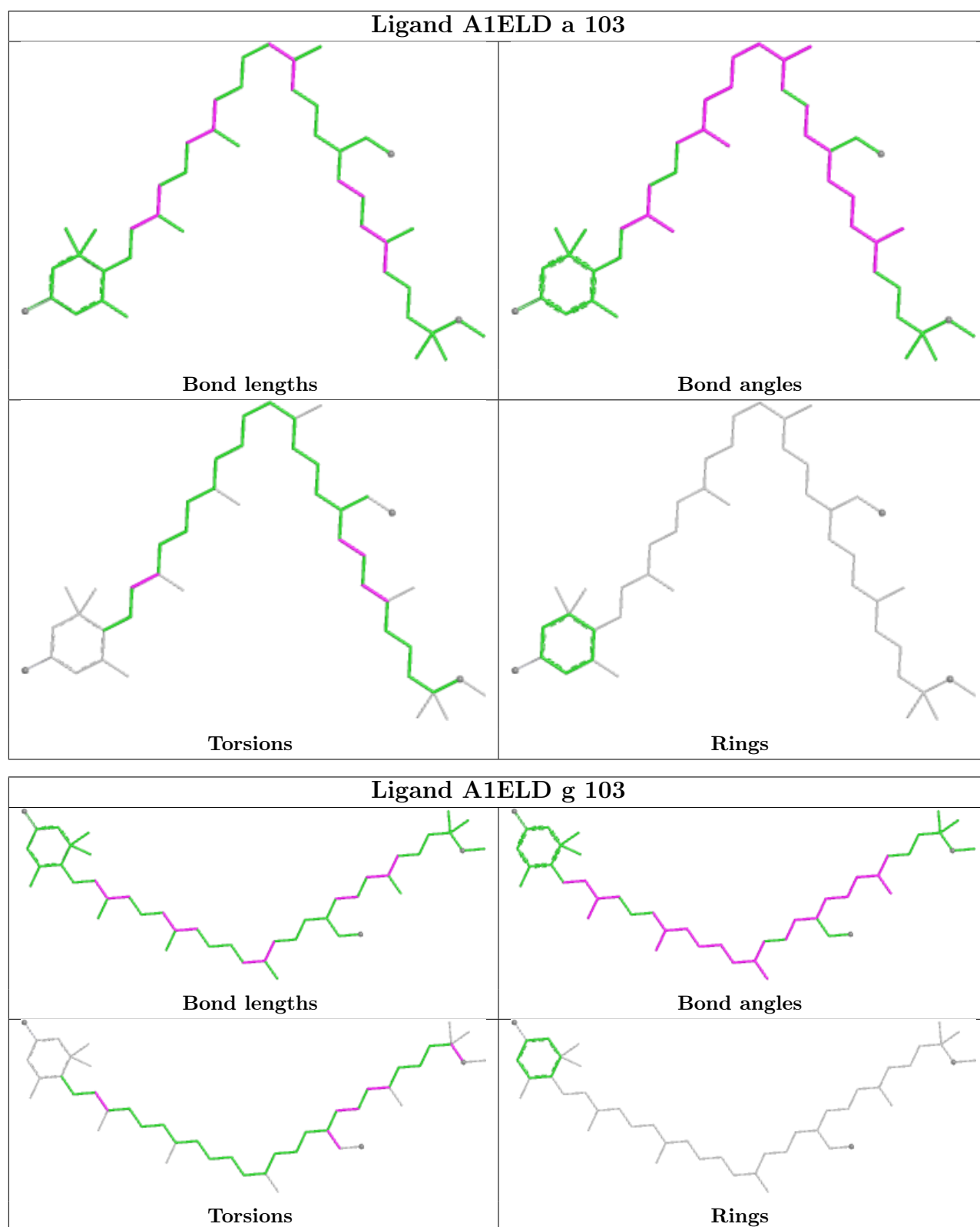


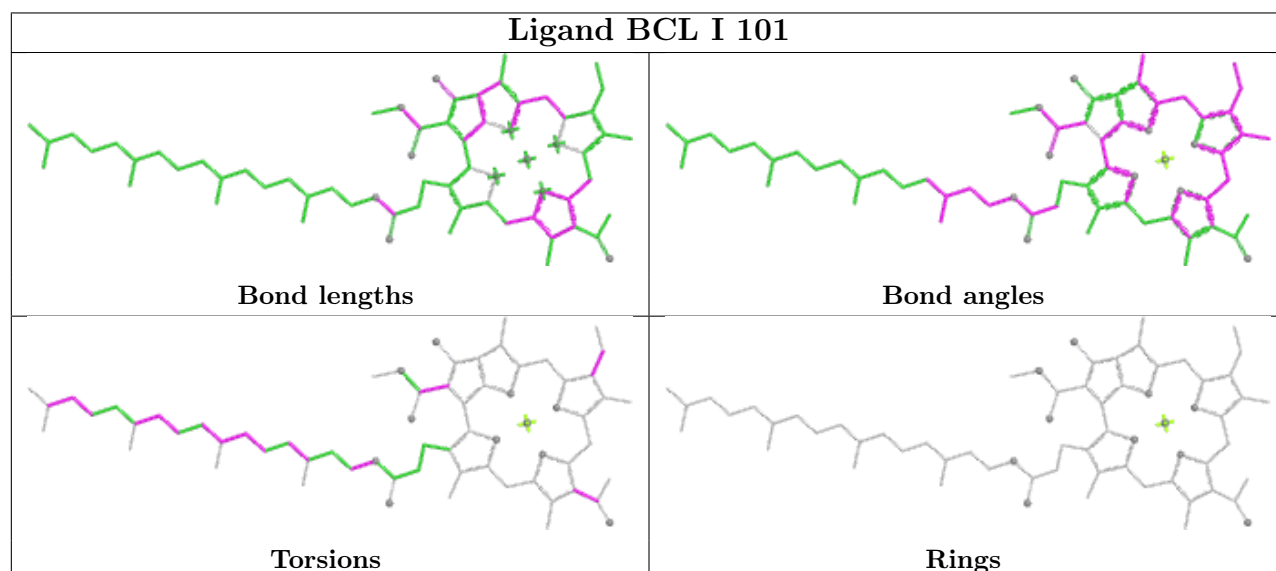
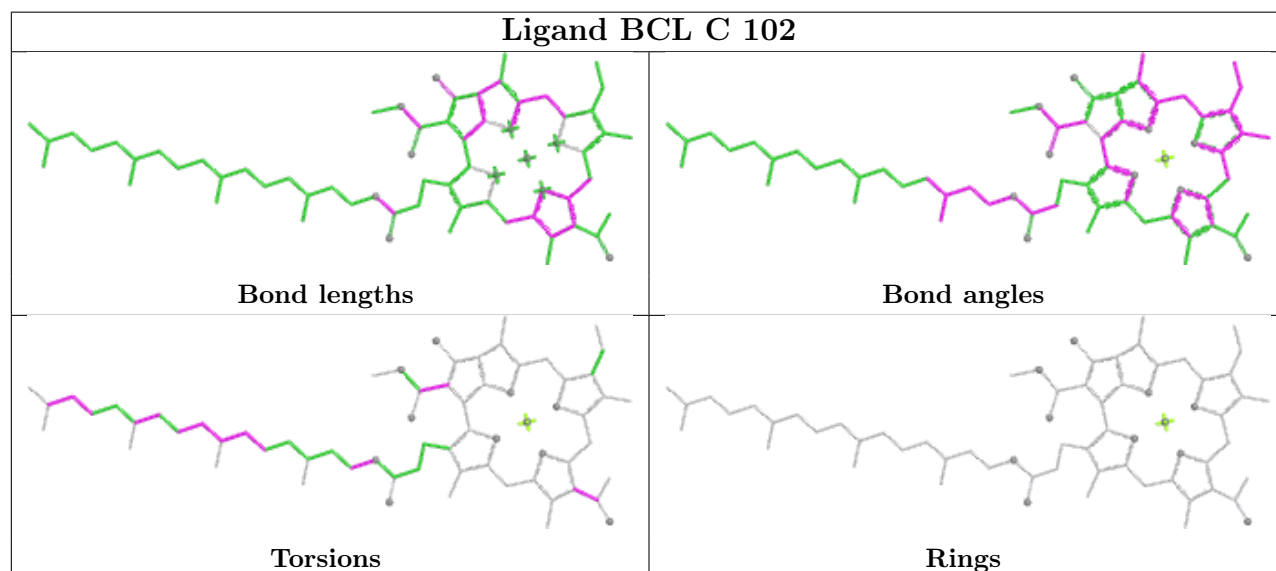
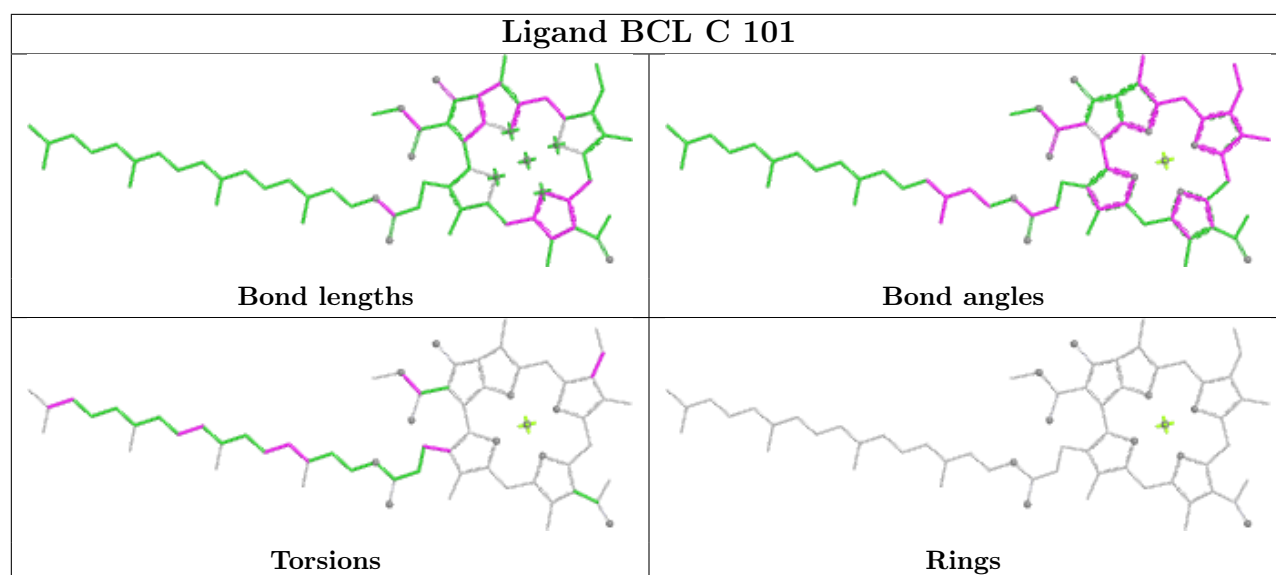


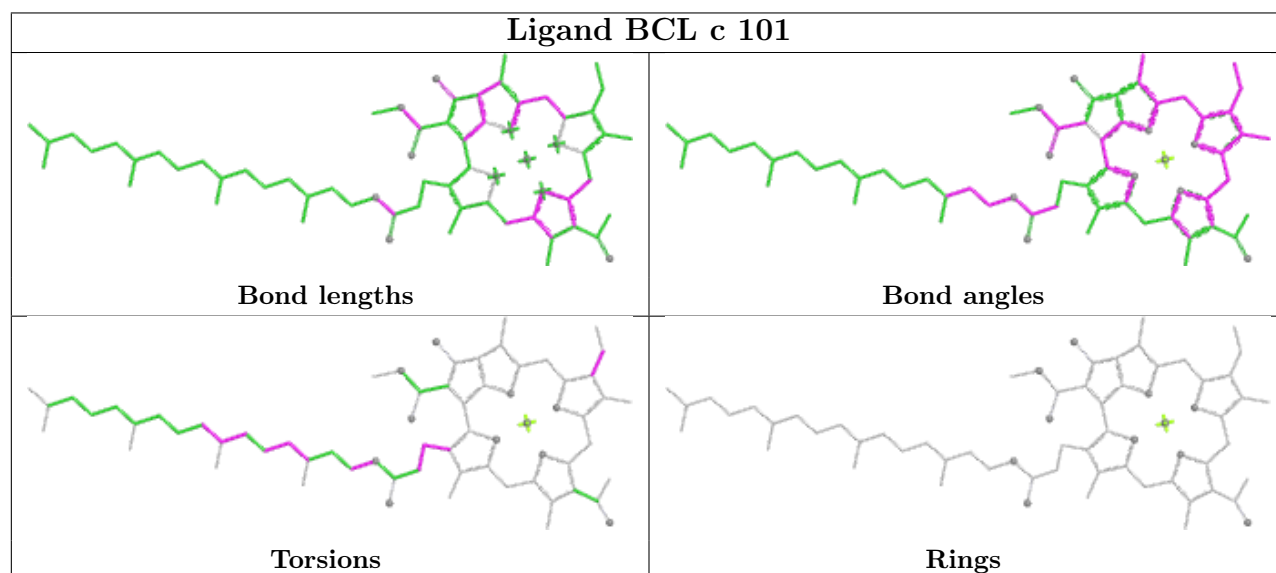
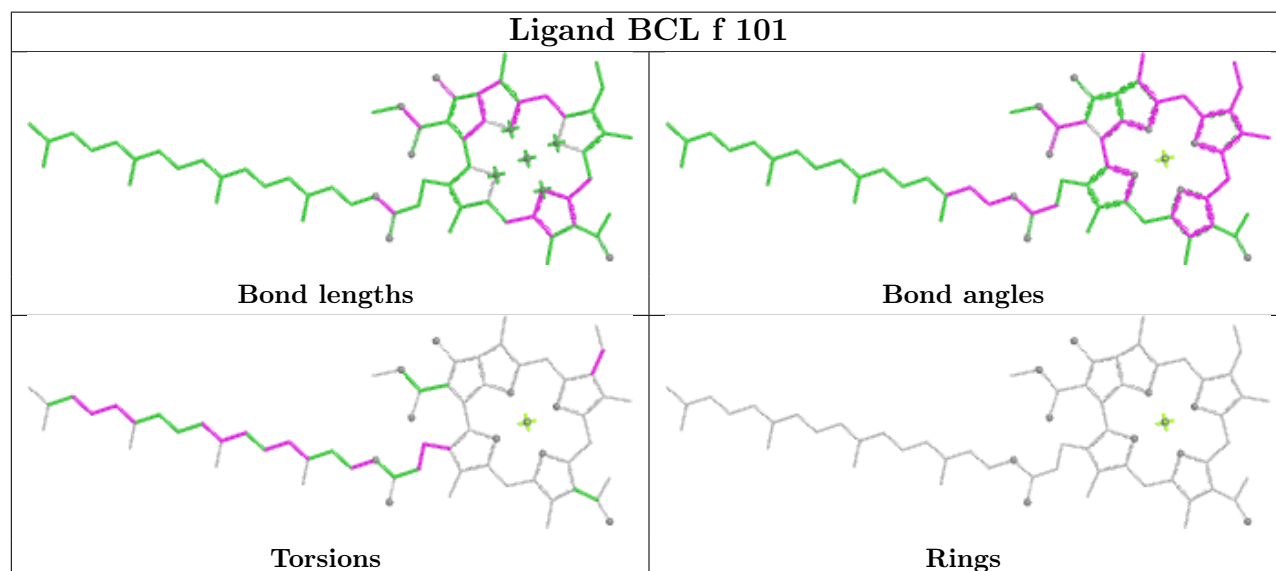
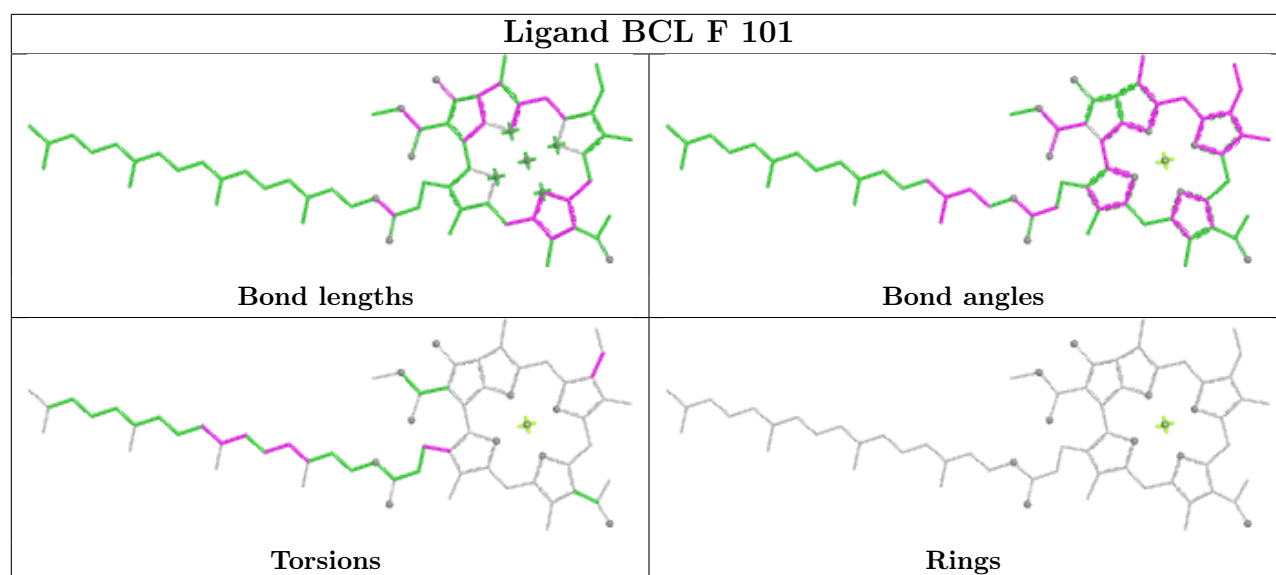


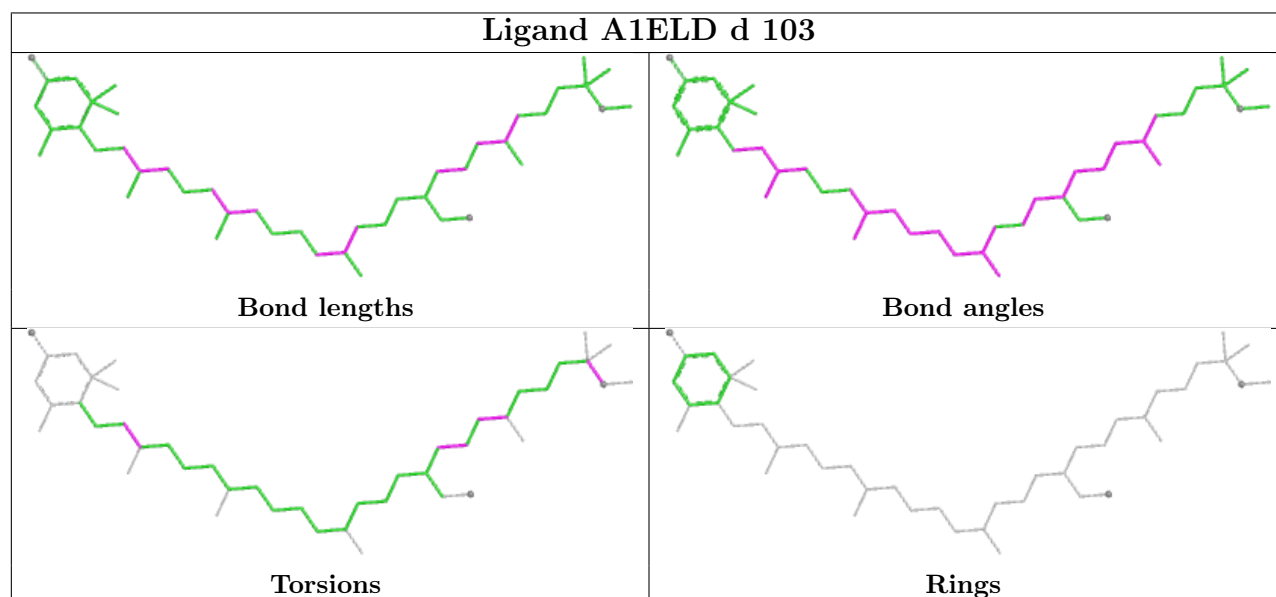
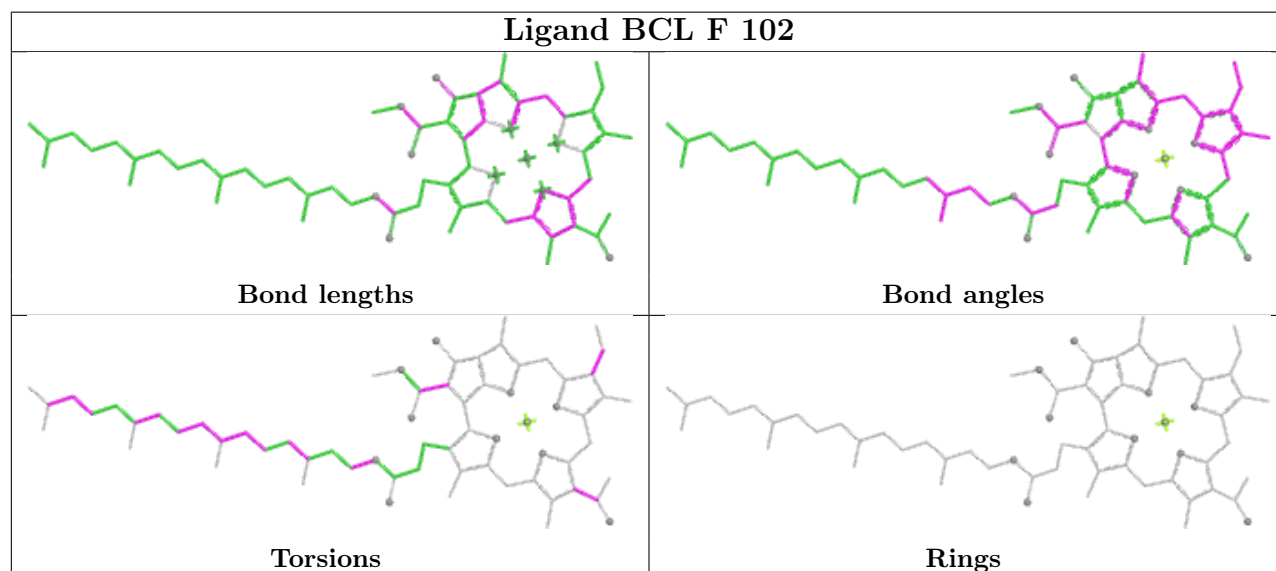
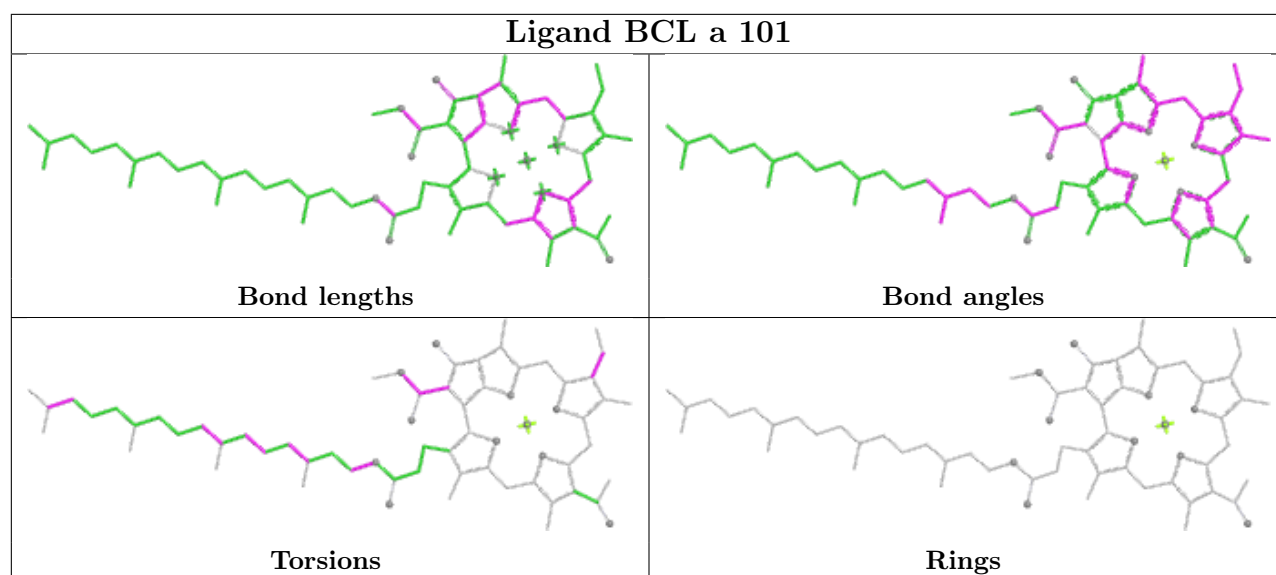


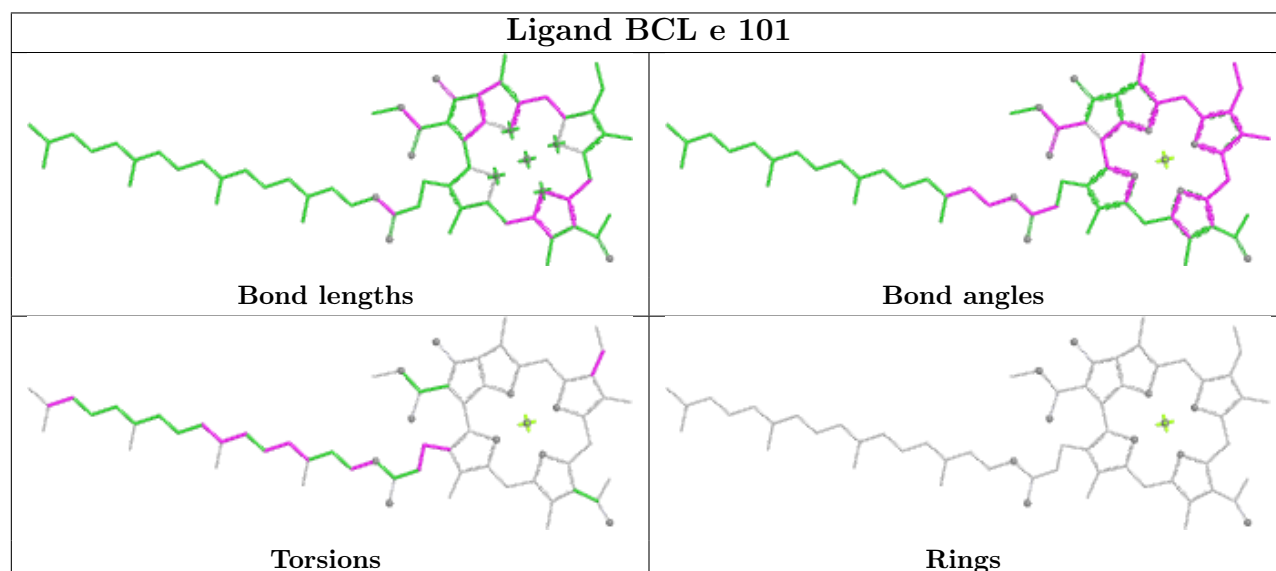
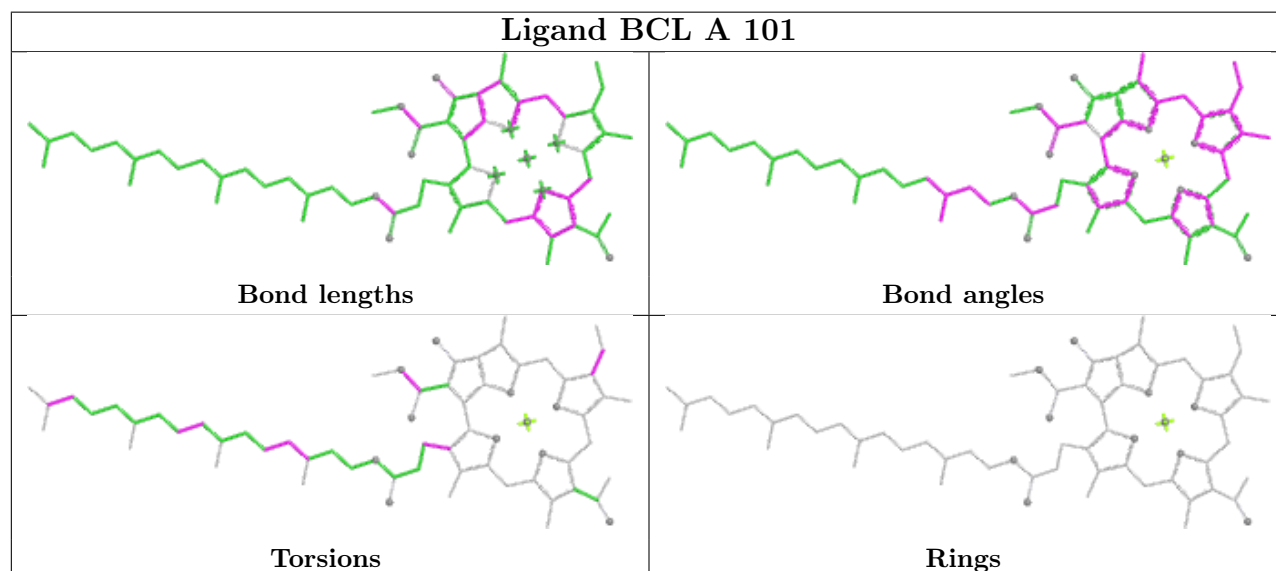
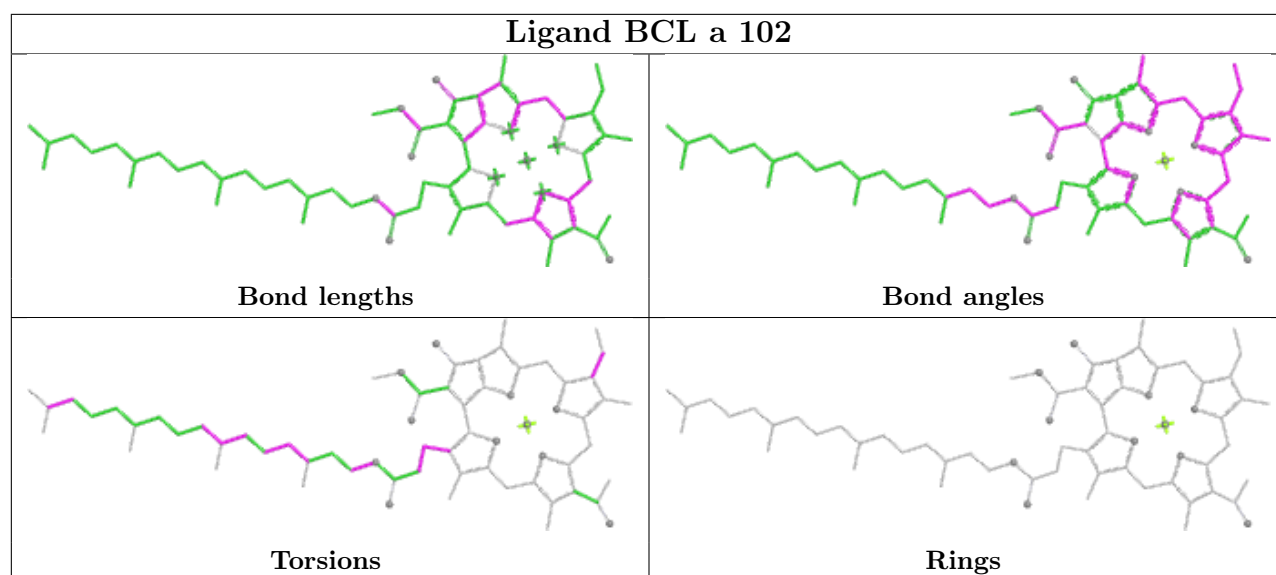












## 5.7 Other polymers

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

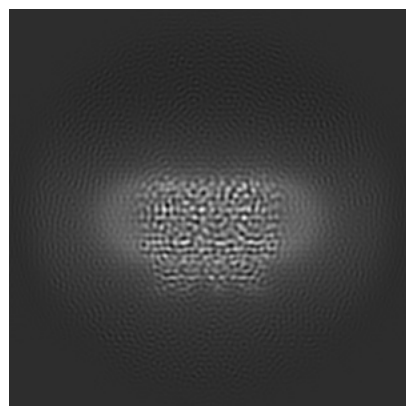
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-63365. These allow visual inspection of the internal detail of the map and identification of artifacts.

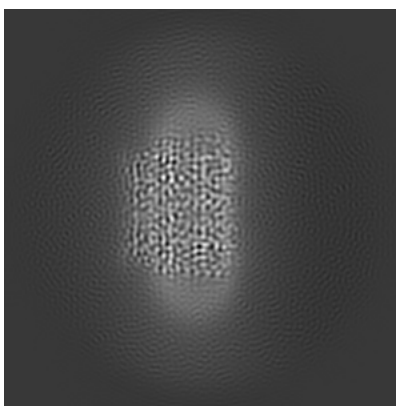
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

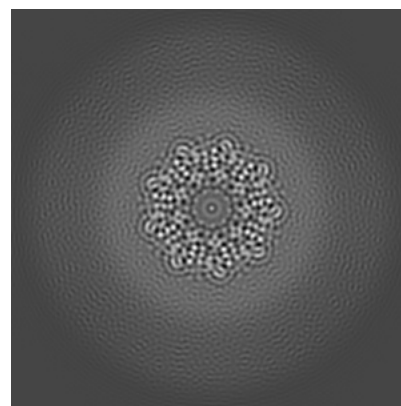
#### 6.1.1 Primary map



X

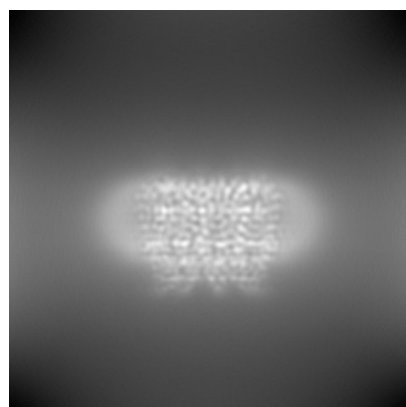


Y

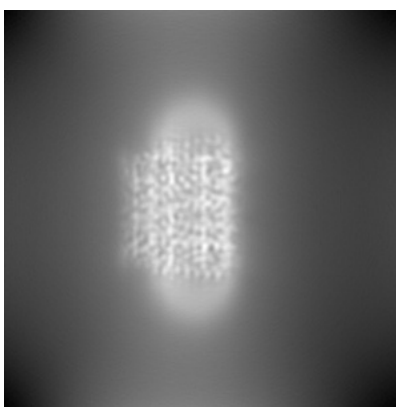


Z

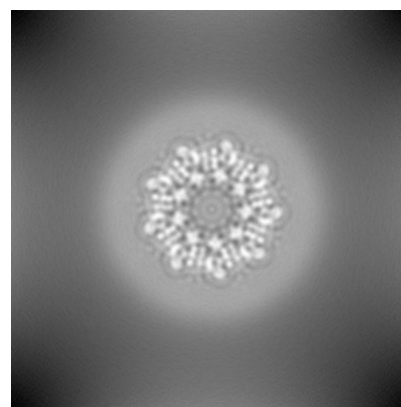
#### 6.1.2 Raw map



X



Y

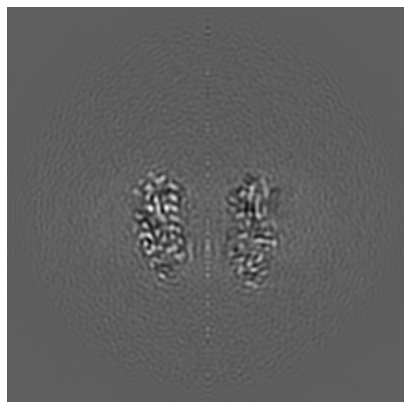


Z

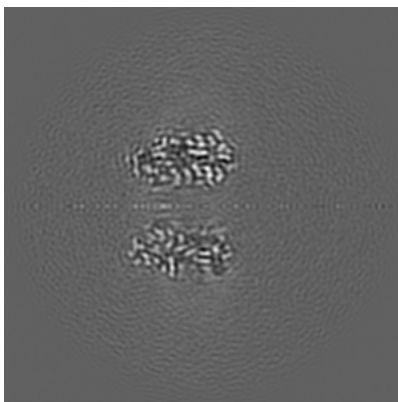
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

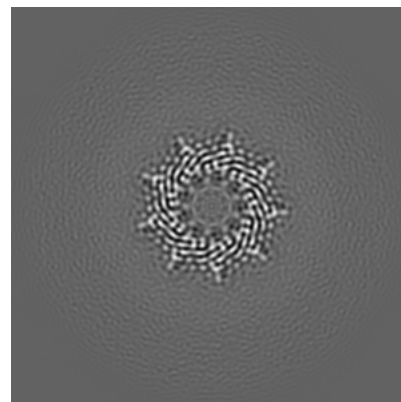
### 6.2.1 Primary map



X Index: 128

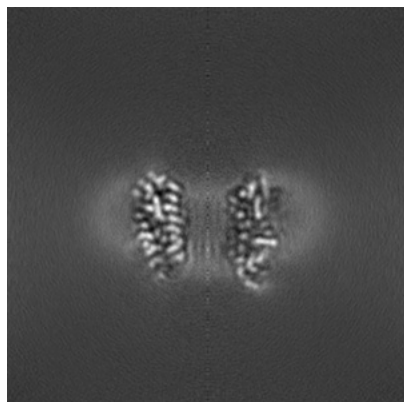


Y Index: 128

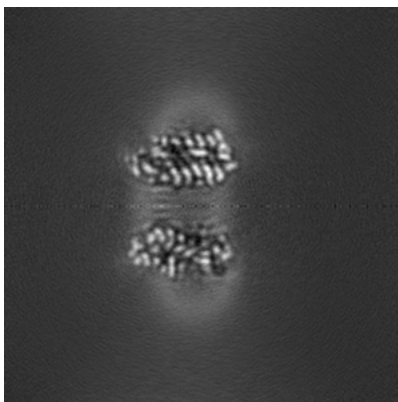


Z Index: 128

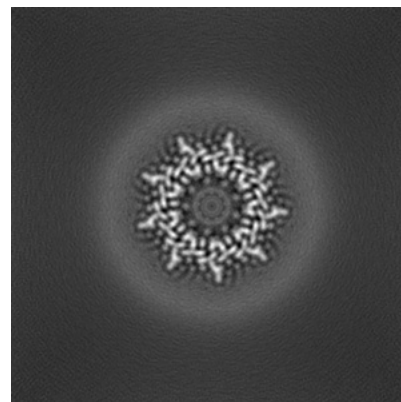
### 6.2.2 Raw map



X Index: 128



Y Index: 128



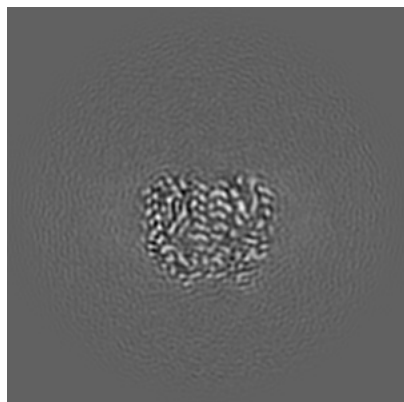
Z Index: 128

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

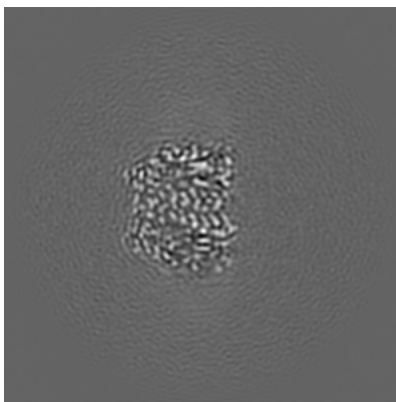


## 6.3 Largest variance slices [i](#)

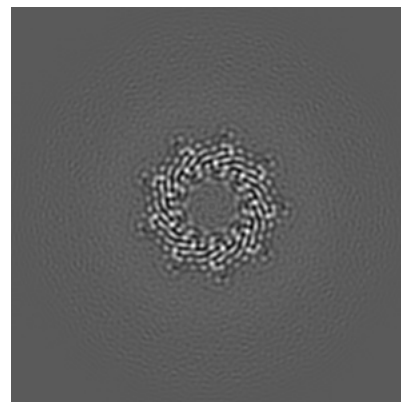
### 6.3.1 Primary map



X Index: 106

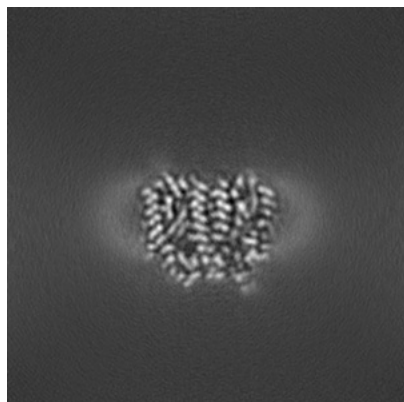


Y Index: 150

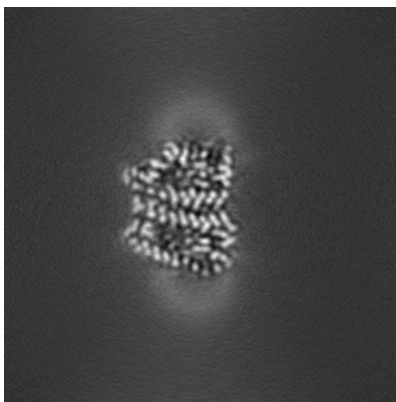


Z Index: 127

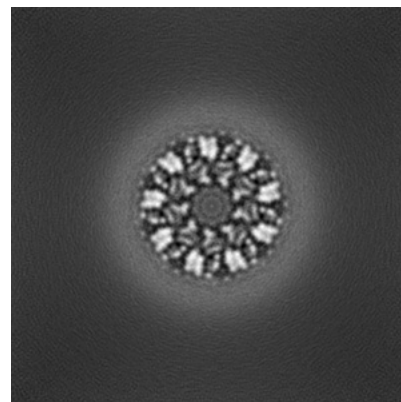
### 6.3.2 Raw map



X Index: 106



Y Index: 149

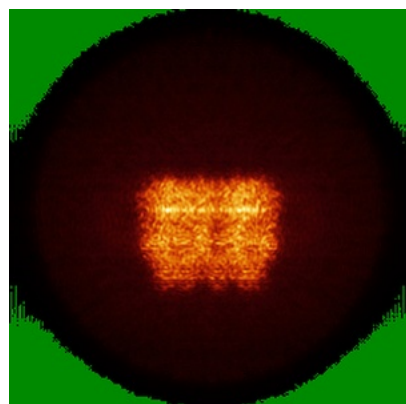


Z Index: 106

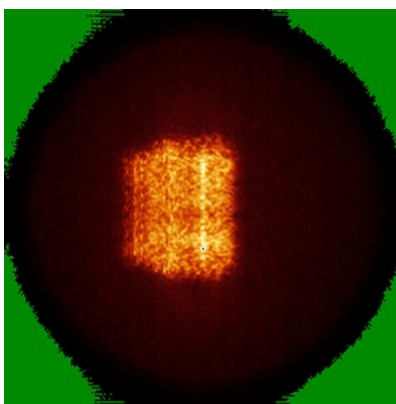
The images above show the largest variance slices of the map in three orthogonal directions.

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

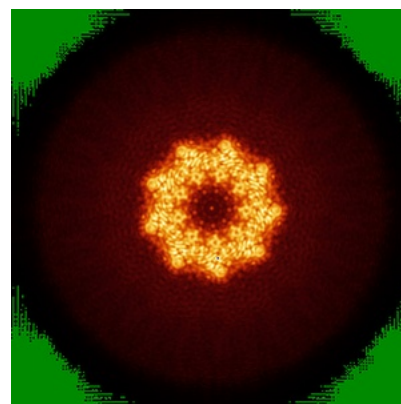
### 6.4.1 Primary map



X

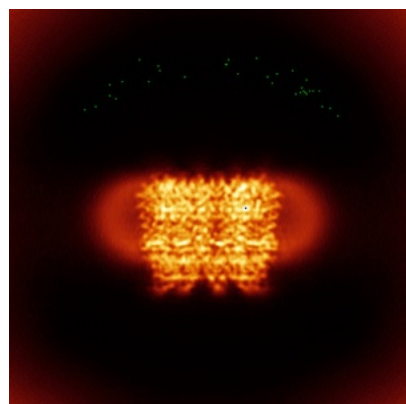


Y

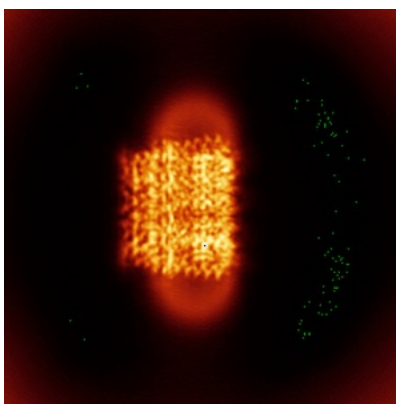


Z

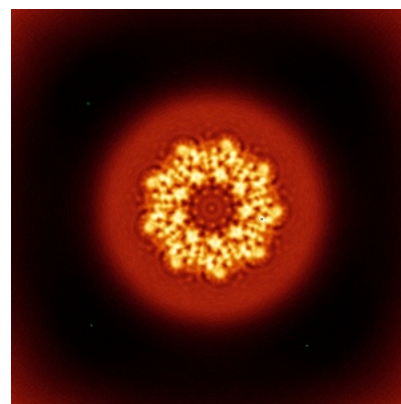
### 6.4.2 Raw map



X



Y

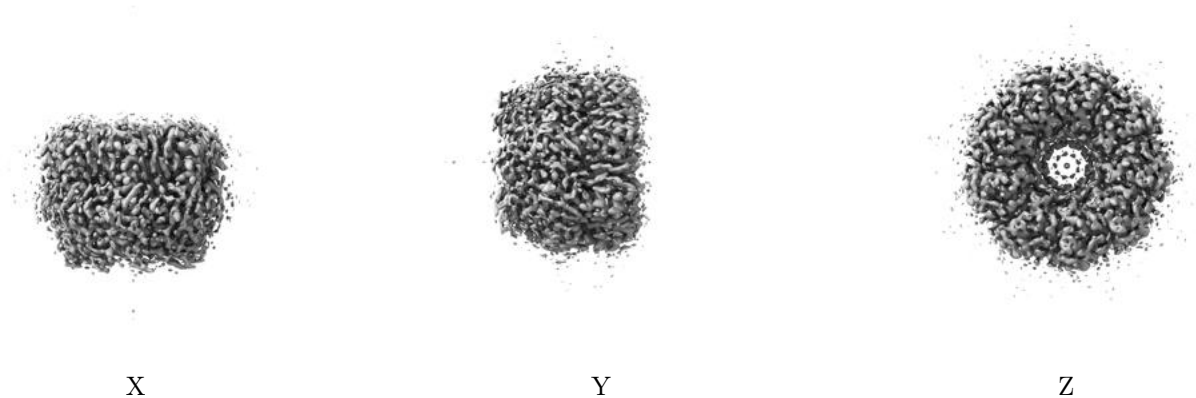


Z

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.

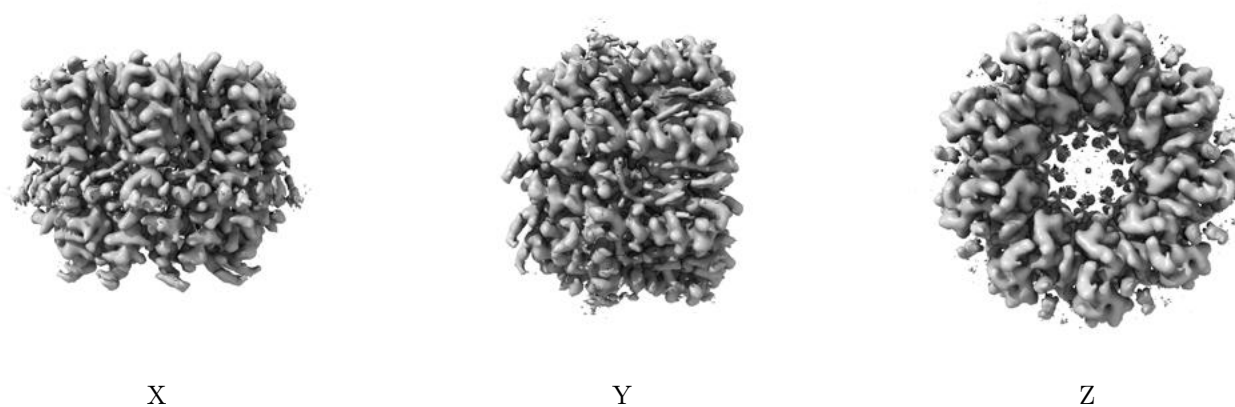
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.1. 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.

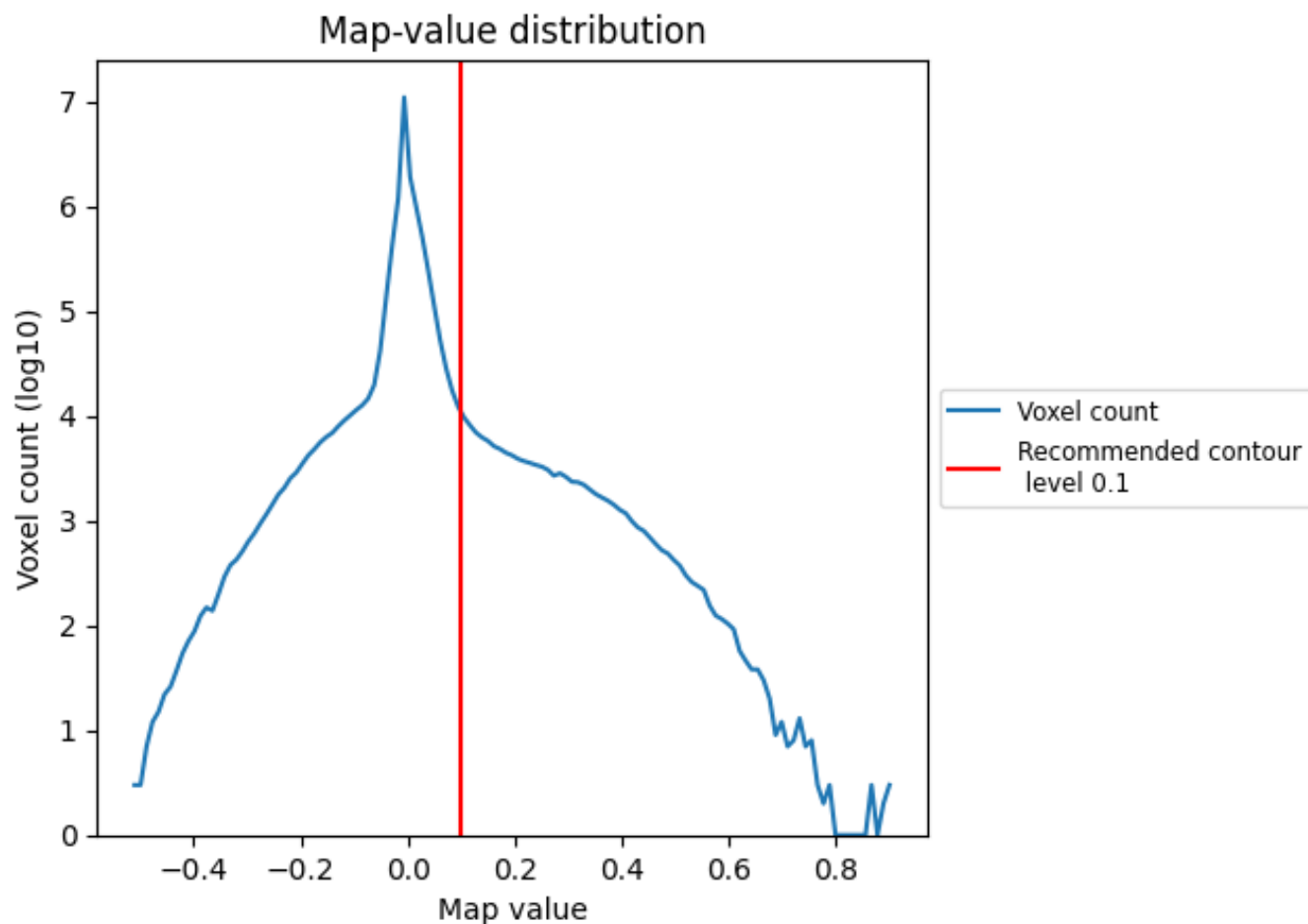
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

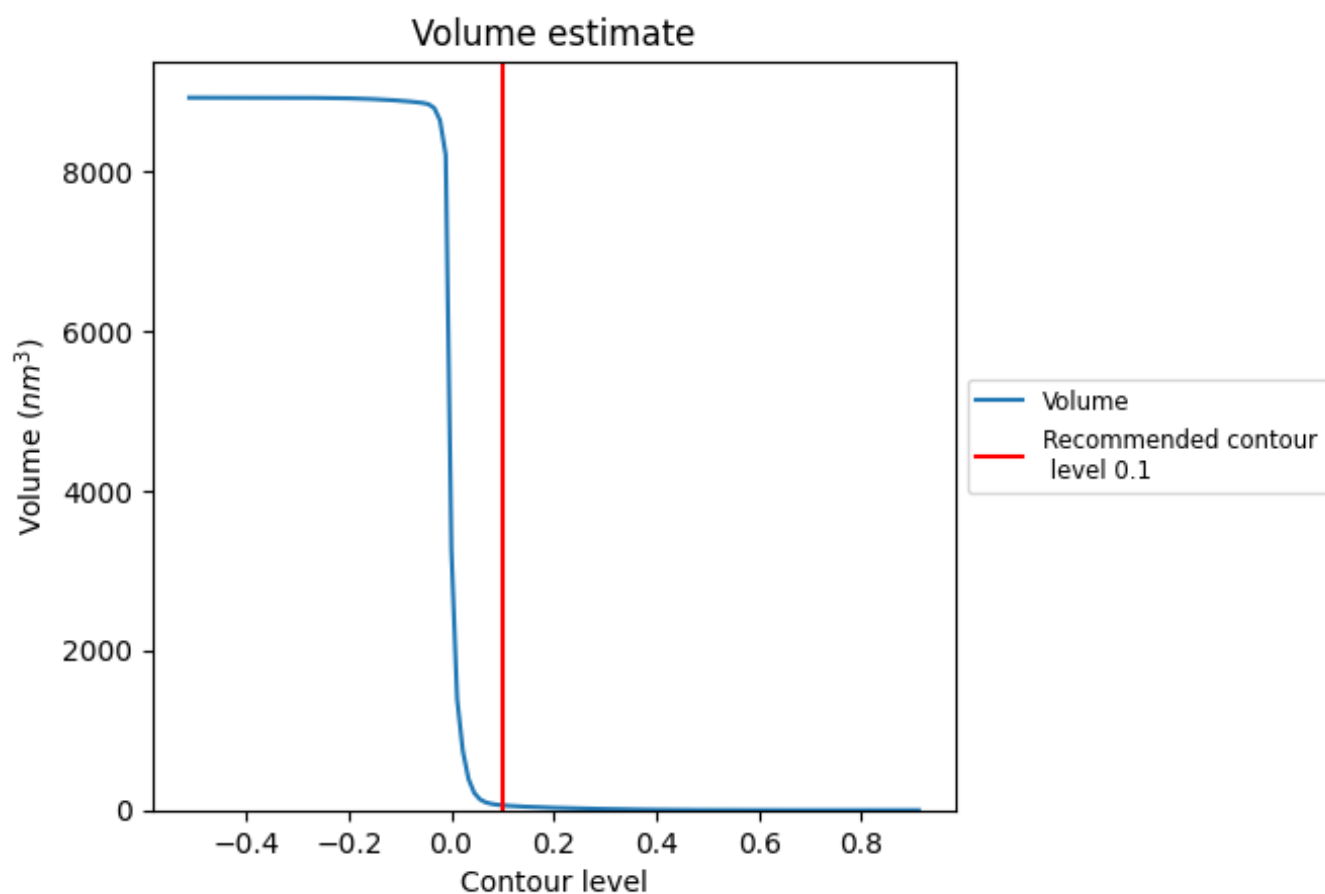
This section contains the results of statistical analysis of the map.

### 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.

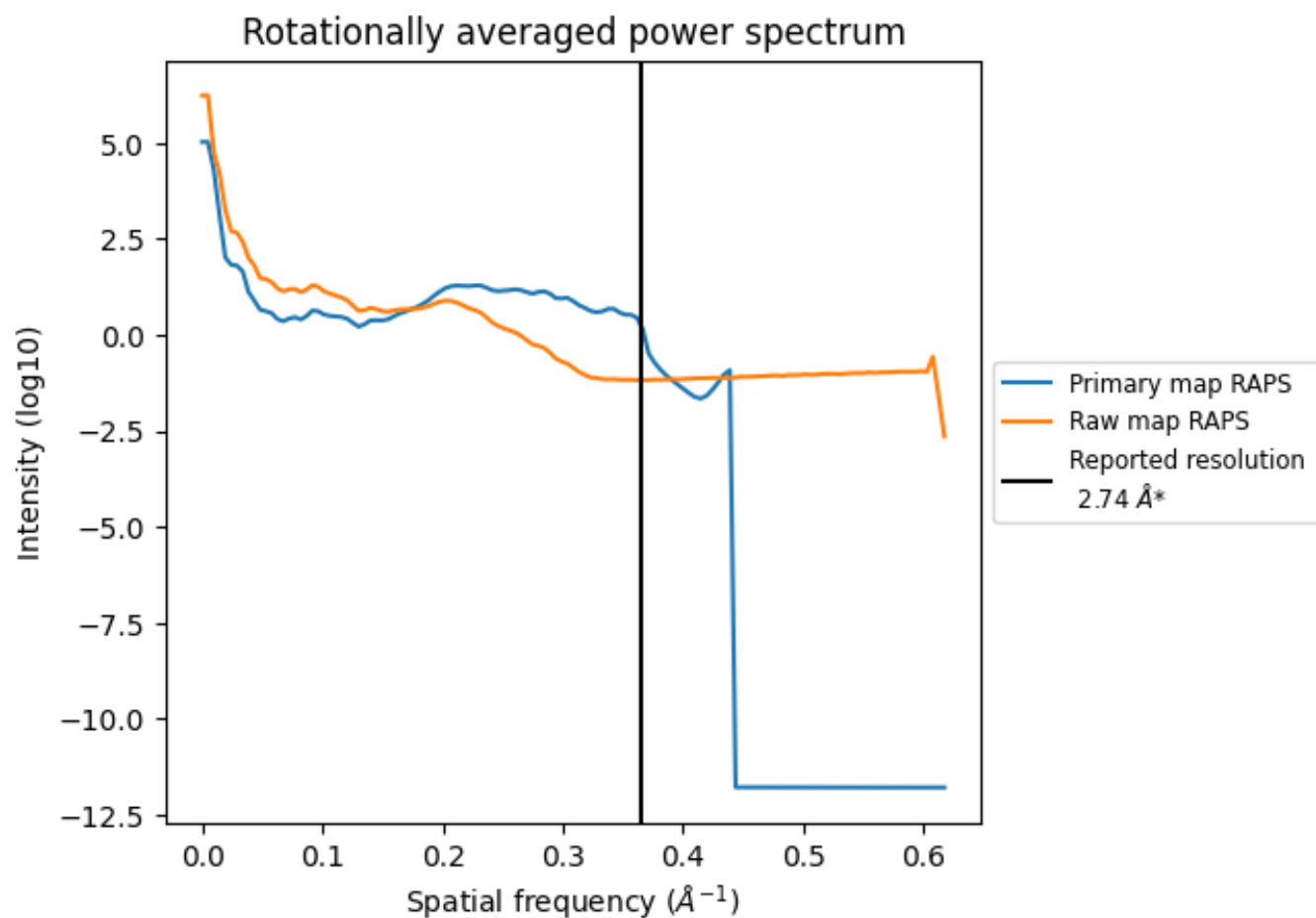
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 61  $\text{nm}^3$ ; this corresponds to an approximate mass of 55 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 ⓘ

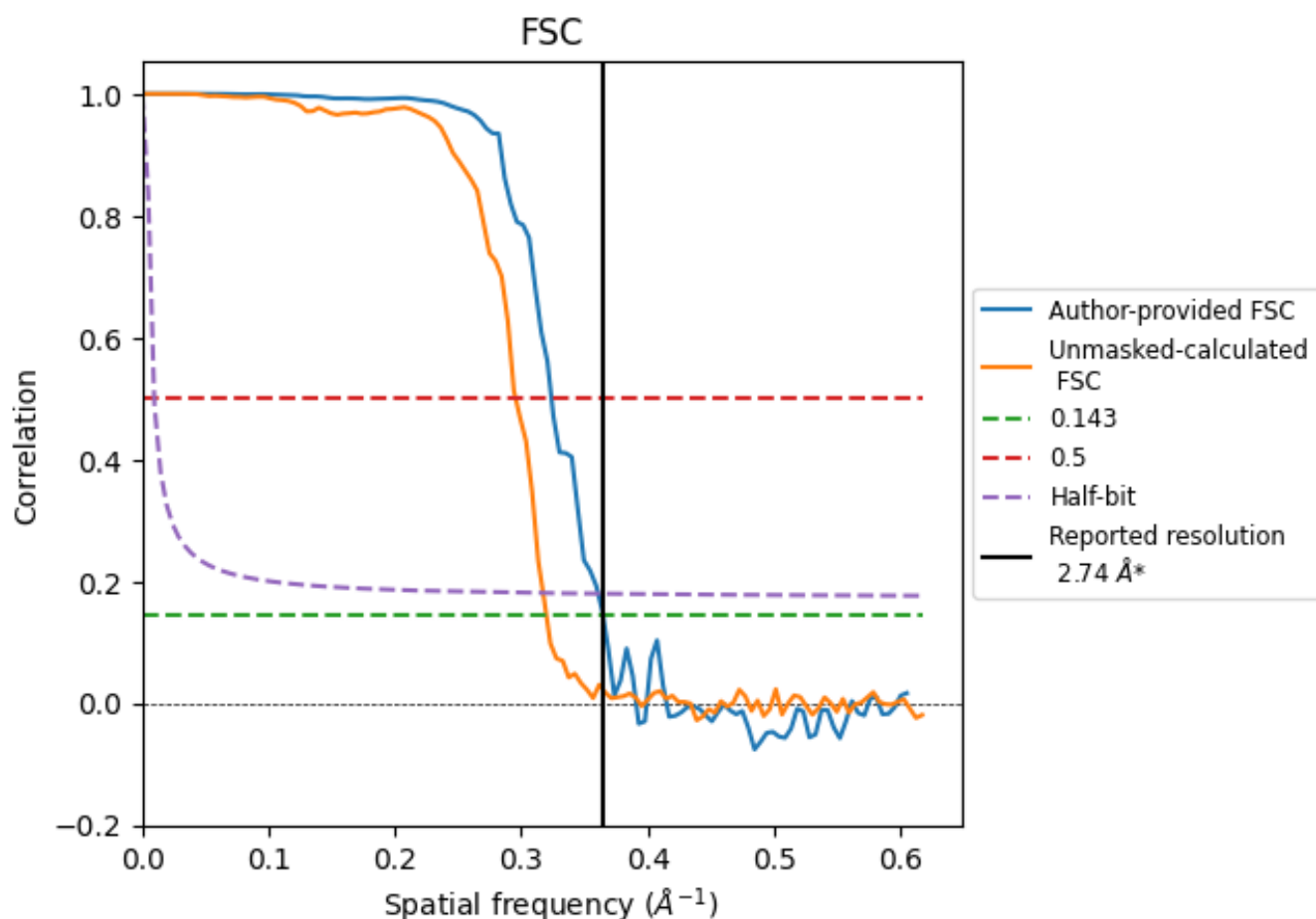


\*Reported resolution corresponds to spatial frequency of 0.365 Å<sup>-1</sup>

## 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 0.365  $\text{\AA}^{-1}$

## 8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.74	-	-
Author-provided FSC curve	2.74	3.09	2.77
Unmasked-calculated*	3.12	3.38	3.15

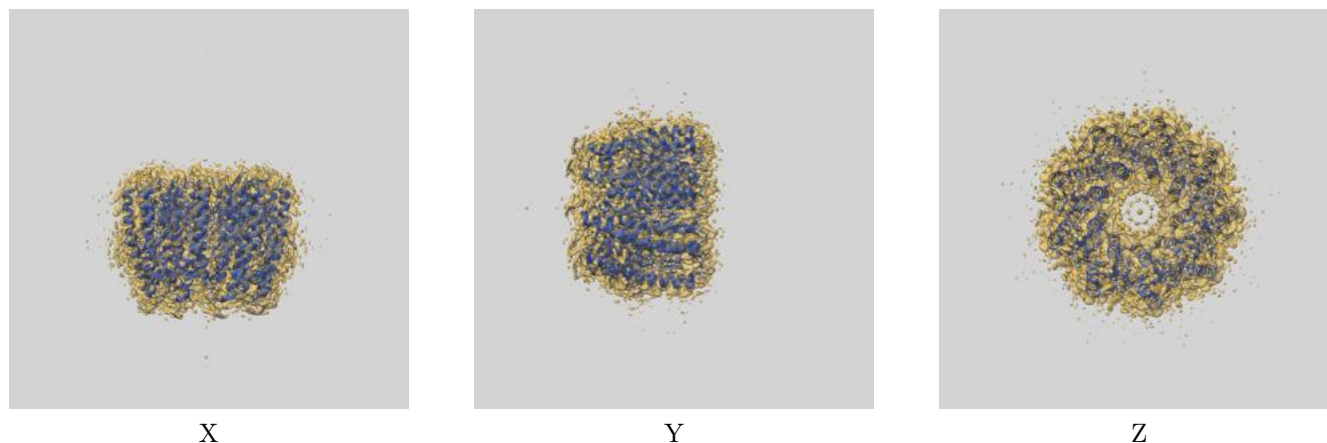
\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.12 differs from the reported value 2.74 by more than 10 %



## 9 Map-model fit [i](#)

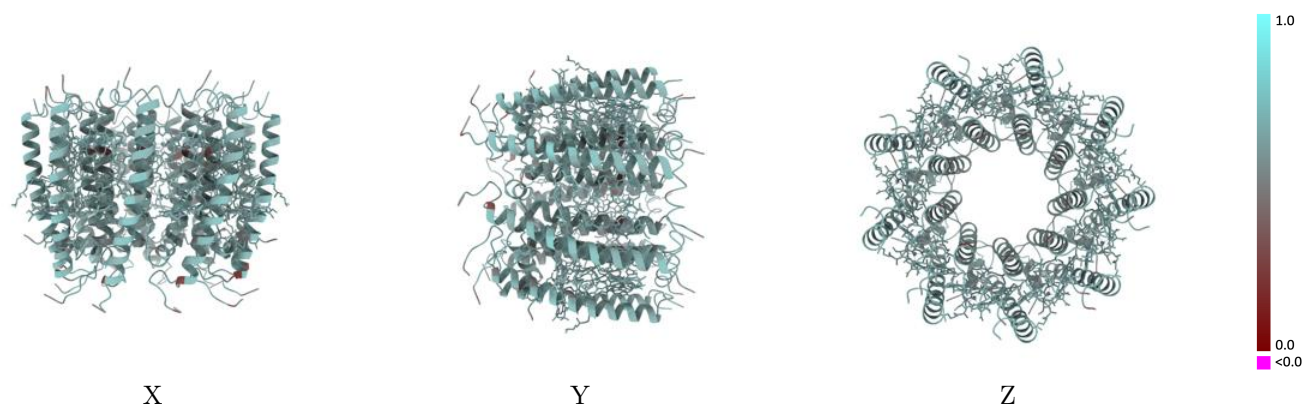
This section contains information regarding the fit between EMDB map EMD-63365 and PDB model 9LT4. Per-residue inclusion information can be found in section [3](#) on page [8](#).

### 9.1 Map-model overlay [i](#)



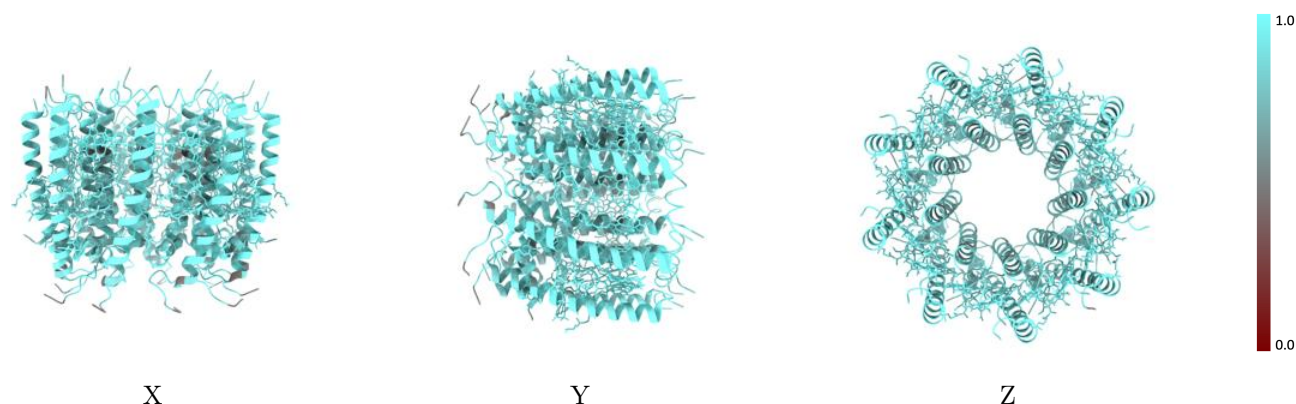
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



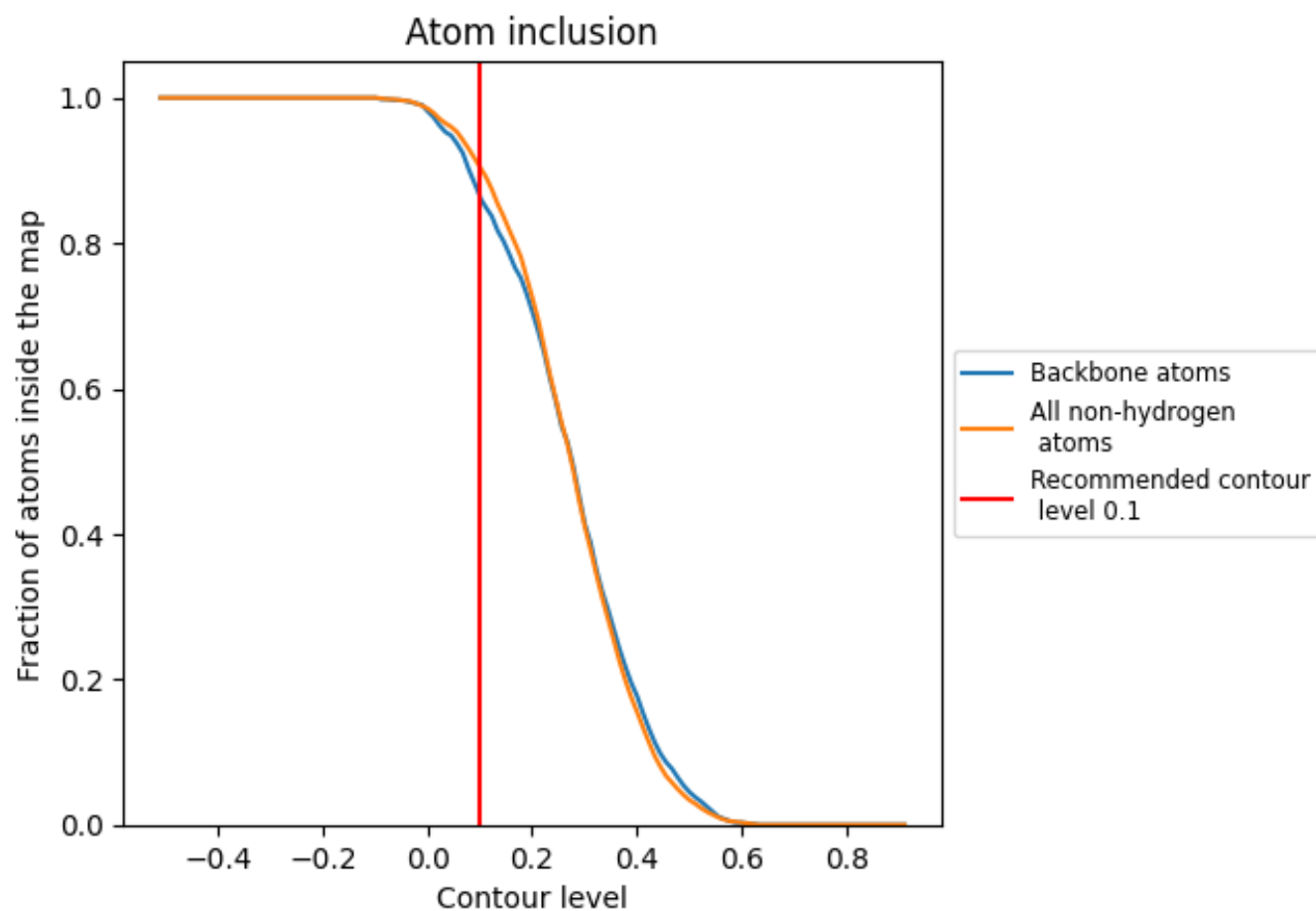
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.1).







































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 86% of all backbone atoms, 90% 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 (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9050	 0.6030
A	 0.8940	 0.5930
B	 0.8880	 0.5930
C	 0.8940	 0.5950
D	 0.8920	 0.5960
E	 0.8800	 0.5950
F	 0.8840	 0.5920
G	 0.8950	 0.5930
H	 0.8760	 0.5960
I	 0.8900	 0.5930
a	 0.9230	 0.6050
b	 0.9100	 0.6130
c	 0.9280	 0.6120
d	 0.9250	 0.6100
e	 0.9200	 0.6110
f	 0.9130	 0.6080
g	 0.9250	 0.6170
h	 0.9340	 0.6200
i	 0.9280	 0.6180

