



Full wwPDB EM Validation Report ⓘ

Nov 6, 2022 – 06:58 AM EST

PDB ID : 6BAJ
EMDB ID : EMD-7074
Title : Cryo-EM structure of lipid bilayer in the native cell membrane nanoparticles of AcrB
Authors : Qiu, W.; Fu, Z.; Guo, Y.
Deposited on : 2017-10-13
Resolution : 3.20 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

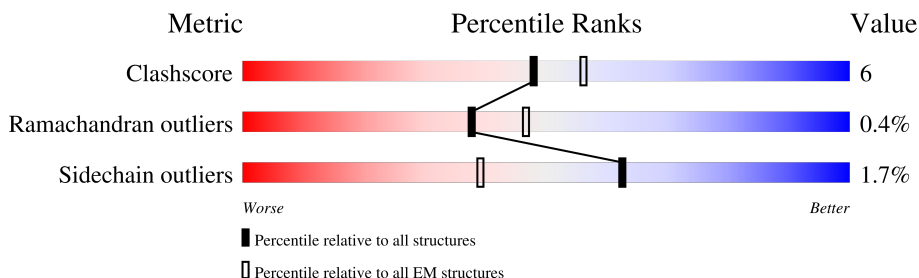
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.20 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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	1057	
1	B	1057	
1	C	1057	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 24318 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.

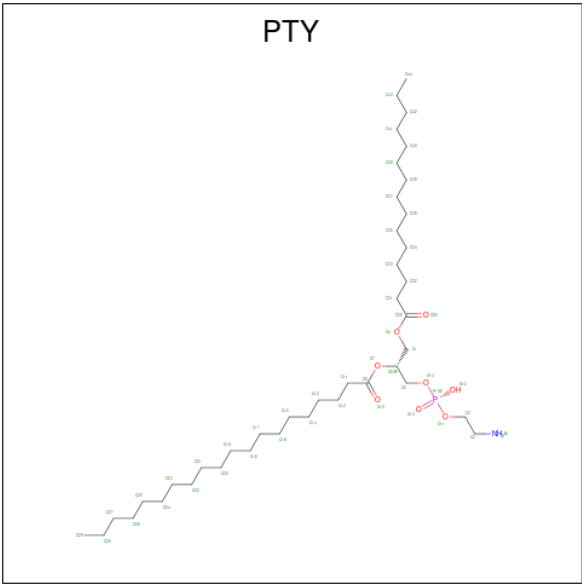
- Molecule 1 is a protein called Multidrug efflux pump subunit AcrB.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	1024	Total	C	N	O	S	0	0
			7786	5017	1281	1444	44		
1	C	1023	Total	C	N	O	S	0	0
			7777	5009	1280	1444	44		
1	A	995	Total	C	N	O	S	0	0
			7544	4857	1239	1405	43		

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	1050	LEU	-	expression tag	UNP P31224
B	1051	GLU	-	expression tag	UNP P31224
B	1052	HIS	-	expression tag	UNP P31224
B	1053	HIS	-	expression tag	UNP P31224
B	1054	HIS	-	expression tag	UNP P31224
B	1055	HIS	-	expression tag	UNP P31224
B	1056	HIS	-	expression tag	UNP P31224
B	1057	HIS	-	expression tag	UNP P31224
C	1050	LEU	-	expression tag	UNP P31224
C	1051	GLU	-	expression tag	UNP P31224
C	1052	HIS	-	expression tag	UNP P31224
C	1053	HIS	-	expression tag	UNP P31224
C	1054	HIS	-	expression tag	UNP P31224
C	1055	HIS	-	expression tag	UNP P31224
C	1056	HIS	-	expression tag	UNP P31224
C	1057	HIS	-	expression tag	UNP P31224
A	1050	LEU	-	expression tag	UNP P31224
A	1051	GLU	-	expression tag	UNP P31224
A	1052	HIS	-	expression tag	UNP P31224
A	1053	HIS	-	expression tag	UNP P31224
A	1054	HIS	-	expression tag	UNP P31224
A	1055	HIS	-	expression tag	UNP P31224
A	1056	HIS	-	expression tag	UNP P31224
A	1057	HIS	-	expression tag	UNP P31224

- Molecule 2 is PHOSPHATIDYLETHANOLAMINE (three-letter code: PTY) (formula: C₄₀H₈₀NO₈P).



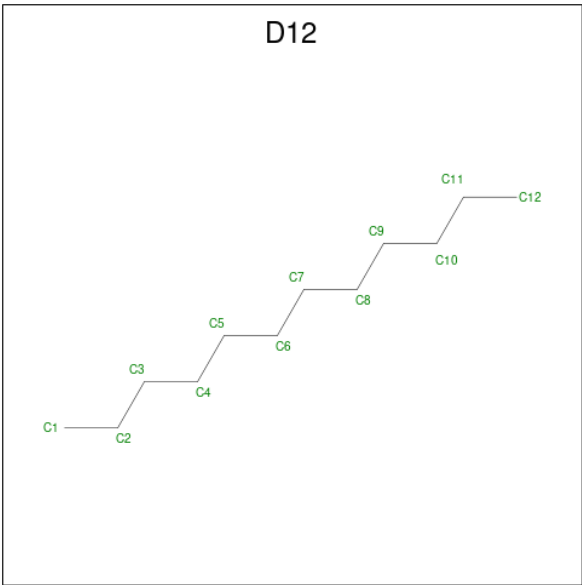
Mol	Chain	Residues	Atoms					AltConf
2	B	1	Total	C	N	O	P	0
			322	237	8	69	8	
			Total	C	N	O	P	
			322	237	8	69	8	
			Total	C	N	O	P	
2	B	1	322	237	8	69	8	0
			Total	C	N	O	P	
			322	237	8	69	8	
			Total	C	N	O	P	
			322	237	8	69	8	
2	B	1	Total	C	N	O	P	0
			322	237	8	69	8	
			Total	C	N	O	P	
			322	237	8	69	8	
			Total	C	N	O	P	
2	B	1	322	237	8	69	8	0
			Total	C	N	O	P	
			322	237	8	69	8	
			Total	C	N	O	P	
			322	237	8	69	8	
2	B	1	Total	C	N	O	P	0
			322	237	8	69	8	
			Total	C	N	O	P	
			322	237	8	69	8	
			Total	C	N	O	P	
2	B	1	322	237	8	69	8	0
			Total	C	N	O	P	
			322	237	8	69	8	
			Total	C	N	O	P	
			322	237	8	69	8	
2	C	1	Total	C	N	O	P	0
			350	254	10	76	10	
			Total	C	N	O	P	
			350	254	10	76	10	
			Total	C	N	O	P	
2	C	1	350	254	10	76	10	0
			Total	C	N	O	P	
			350	254	10	76	10	
			Total	C	N	O	P	
			350	254	10	76	10	

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Mol	Chain	Residues	Atoms					AltConf
2	C	1	Total	C	N	O	P	0
			350	254	10	76	10	
2	C	1	Total	C	N	O	P	0
			350	254	10	76	10	
2	C	1	Total	C	N	O	P	0
			350	254	10	76	10	
2	C	1	Total	C	N	O	P	0
			350	254	10	76	10	
2	C	1	Total	C	N	O	P	0
			350	254	10	76	10	
2	C	1	Total	C	N	O	P	0
			350	254	10	76	10	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	
2	A	1	Total	C	N	O	P	0
			409	299	11	88	11	

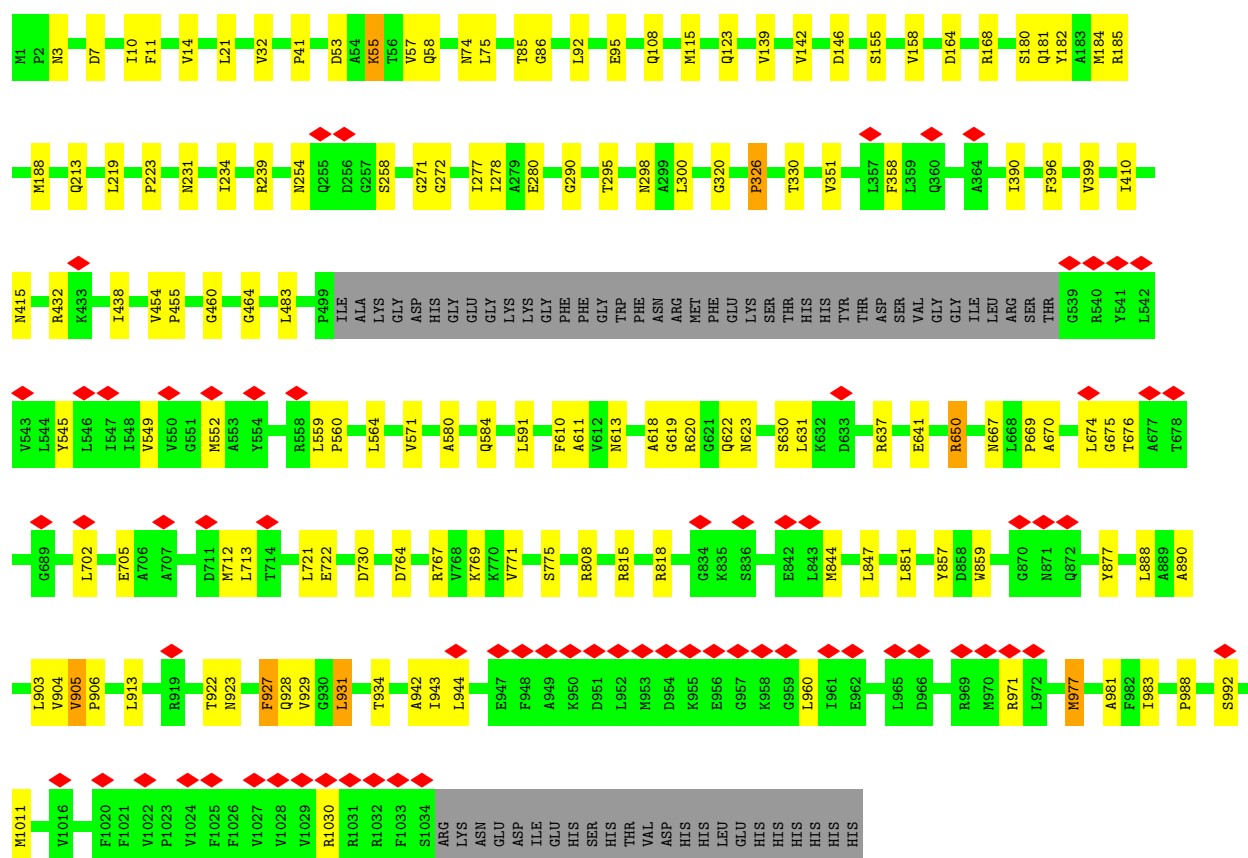
- Molecule 3 is DODECANE (three-letter code: D12) (formula: C₁₂H₂₆).



Mol	Chain	Residues	Atoms		AltConf
3	B	1	Total	C	0
			69	69	
3	B	1	Total	C	0
			69	69	
3	B	1	Total	C	0
			69	69	
3	B	1	Total	C	0
			69	69	
3	B	1	Total	C	0
			69	69	
3	B	1	Total	C	0
			69	69	
3	C	1	Total	C	0
			60	60	
3	C	1	Total	C	0
			60	60	
3	C	1	Total	C	0
			60	60	
3	C	1	Total	C	0
			60	60	
3	C	1	Total	C	0
			60	60	

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		AltConf
4	B	1	Total	O	0
			1	1	



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	57395	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	35	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.550	Depositor
Minimum map value	-0.358	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.027	Depositor
Recommended contour level	0.07	Depositor
Map size (\AA)	211.20001, 211.20001, 211.20001	wwPDB
Map dimensions	192, 192, 192	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.1, 1.1, 1.1	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: PTY, D12

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	0.35	0/7683	0.61	0/10440
1	B	0.35	0/7934	0.60	0/10777
1	C	0.37	0/7924	0.61	0/10763
All	All	0.36	0/23541	0.60	0/31980

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	7544	0	7712	110	0
1	B	7786	0	7940	114	0
1	C	7777	0	7926	82	0
2	A	409	0	539	11	0
2	B	322	0	421	9	0
2	C	350	0	446	13	0
3	B	69	0	147	2	0
3	C	60	0	130	3	0
4	B	1	0	0	0	0
All	All	24318	0	25261	313	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 6.

All (313) 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)
1:B:562:SER:HB2	1:B:676:THR:CG2	1.39	1.49
1:A:559:LEU:HD21	1:A:927:PHE:HE2	1.03	1.16
1:B:562:SER:CB	1:B:676:THR:CG2	2.25	1.13
1:B:562:SER:HB2	1:B:676:THR:HG21	1.36	1.06
1:B:676:THR:O	1:B:677:ALA:HB3	1.56	1.04
1:B:562:SER:HB2	1:B:676:THR:HG22	1.36	1.04
1:C:822:LEU:HD12	1:C:823:PRO:HD2	1.39	1.04
1:A:559:LEU:HD21	1:A:927:PHE:CE2	1.93	1.03
1:A:559:LEU:CD2	1:A:927:PHE:HE2	1.73	1.01
1:C:74:ASN:ND2	1:C:98:THR:HG21	1.75	1.00
1:C:74:ASN:HD22	1:C:98:THR:HG21	1.24	0.99
1:B:562:SER:CB	1:B:676:THR:HG22	1.88	0.99
1:A:559:LEU:CD2	1:A:927:PHE:CE2	2.49	0.95
1:B:562:SER:HB2	1:B:676:THR:HG23	1.50	0.89
1:A:913:LEU:HD23	1:A:927:PHE:HZ	1.37	0.88
1:C:372:VAL:O	1:C:376:LEU:HD11	1.76	0.86
1:A:913:LEU:HD23	1:A:927:PHE:CZ	2.10	0.85
1:B:676:THR:O	1:B:677:ALA:CB	2.21	0.83
1:A:923:ASN:HB3	1:A:927:PHE:CD2	2.14	0.81
1:B:562:SER:CA	1:B:676:THR:HG22	2.10	0.80
1:C:820:ASN:ND2	1:C:820:ASN:O	2.15	0.79
1:C:372:VAL:O	1:C:376:LEU:CG	2.32	0.77
1:A:923:ASN:HA	1:A:927:PHE:HB2	1.70	0.74
1:B:958:LYS:NZ	1:B:966:ASP:OD2	2.20	0.74
1:B:562:SER:HA	1:B:676:THR:HG22	1.68	0.74
1:C:372:VAL:O	1:C:376:LEU:CD1	2.36	0.73
1:A:767:ARG:HH21	1:A:767:ARG:HG3	1.55	0.72
1:B:307:ARG:NH2	1:B:328:ASP:OD2	2.22	0.71
1:B:269:GLU:O	1:B:269:GLU:HG3	1.91	0.70
1:B:818:ARG:NH1	1:B:821:GLY:O	2.25	0.70
1:B:983:ILE:HD12	1:B:1012:VAL:HG22	1.72	0.69
1:C:822:LEU:CD1	1:C:823:PRO:HD2	2.21	0.68
1:A:483:LEU:C	1:A:483:LEU:HD23	2.14	0.68
1:A:923:ASN:HA	1:A:927:PHE:CB	2.24	0.67
1:B:268:ILE:O	1:B:269:GLU:O	2.13	0.66
1:A:631:LEU:HD13	1:A:637:ARG:HH12	1.58	0.66
1:C:815:ARG:NH1	1:C:817:GLU:OE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:857:TYR:HH	1:A:859:TRP:HE1	1.44	0.65
1:C:334:LYS:HZ1	2:C:1104:PTY:HC31	1.60	0.65
1:B:983:ILE:O	1:B:983:ILE:HG13	1.97	0.64
1:A:944:LEU:HD12	1:A:971:ARG:HH11	1.63	0.63
1:B:455:PRO:HG2	1:B:880:SER:HB2	1.81	0.62
1:C:372:VAL:O	1:C:376:LEU:HG	2.00	0.62
1:C:74:ASN:ND2	1:C:98:THR:CG2	2.59	0.62
1:A:181:GLN:NE2	1:A:767:ARG:HE	1.97	0.62
1:A:923:ASN:CB	1:A:927:PHE:HB3	2.30	0.62
1:A:631:LEU:HD13	1:A:637:ARG:NH1	2.14	0.61
1:B:207:ILE:HD12	1:B:759:VAL:HG11	1.83	0.61
1:B:562:SER:CB	1:B:676:THR:HG21	2.12	0.60
1:A:74:ASN:ND2	1:A:95:GLU:OE2	2.34	0.60
1:C:372:VAL:O	1:C:376:LEU:HD21	2.01	0.60
1:B:672:VAL:O	1:B:672:VAL:HG13	2.02	0.60
1:A:483:LEU:HD11	2:A:1103:PTY:H202	1.83	0.60
1:A:564:LEU:HD23	1:A:670:ALA:HB1	1.85	0.59
1:A:730:ASP:OD2	1:A:808:ARG:NH1	2.34	0.59
1:A:115:MET:O	1:A:123:GLN:NE2	2.35	0.59
1:A:913:LEU:CD2	1:A:927:PHE:CZ	2.82	0.59
1:B:184:MET:HB3	1:B:771:VAL:HG22	1.85	0.59
1:B:414:GLU:OE2	1:B:973:ARG:NE	2.36	0.59
1:A:155:SER:HB3	1:A:180:SER:H	1.69	0.58
1:C:143:ILE:HD11	1:C:322:LYS:NZ	2.19	0.58
1:B:66:GLU:OE2	1:B:818:ARG:NE	2.29	0.58
1:B:54:ALA:O	1:B:58:GLN:HB2	2.05	0.57
1:C:248:LYS:HA	1:C:261:LEU:HD23	1.85	0.57
1:B:14:VAL:HG11	1:C:890:ALA:HB2	1.86	0.57
1:C:75:LEU:O	1:C:93:THR:O	2.22	0.57
1:B:986:VAL:HG23	1:B:1008:MET:HE2	1.86	0.57
1:B:407:ASP:OD2	1:B:937:LEU:HD21	2.05	0.57
1:B:210:GLN:HG3	1:B:249:ILE:HG12	1.87	0.57
1:B:192:GLU:HA	1:B:195:LYS:HG2	1.88	0.56
1:C:404:LEU:HD22	1:C:449:LEU:HD21	1.87	0.56
1:A:184:MET:HB3	1:A:771:VAL:HG22	1.87	0.56
1:B:493:CYS:HA	1:B:497:LEU:HD13	1.87	0.56
1:B:367:ILE:HD12	1:B:492:LEU:HB3	1.87	0.56
1:C:874:PRO:HB3	2:C:1106:PTY:H121	1.87	0.56
1:C:955:LYS:HG3	1:C:956:GLU:HG3	1.88	0.56
2:B:1109:PTY:H171	2:B:1109:PTY:H431	1.88	0.55
1:A:591:LEU:HD12	1:A:611:ALA:HB1	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1111:PTY:H111	2:A:1111:PTY:H322	1.87	0.55
1:C:819:TYR:OH	1:C:860:THR:OG1	2.24	0.55
1:B:375:VAL:HG22	1:B:484:VAL:HG11	1.87	0.55
1:B:673:GLU:O	1:B:673:GLU:HG3	2.06	0.55
1:C:358:PHE:O	1:C:973:ARG:NH2	2.39	0.55
1:C:372:VAL:O	1:C:376:LEU:CD2	2.55	0.55
1:A:142:VAL:HG21	1:A:158:VAL:HG21	1.89	0.55
1:B:411:VAL:HG22	1:B:971:ARG:HH22	1.72	0.55
1:B:15:ILE:HA	1:B:18:ILE:HG12	1.89	0.55
1:A:944:LEU:HD12	1:A:971:ARG:NH1	2.21	0.55
1:B:986:VAL:HG23	1:B:1008:MET:CE	2.36	0.55
1:B:15:ILE:HD11	1:B:487:ILE:HG21	1.89	0.54
1:B:19:ILE:HG13	2:B:1107:PTY:H431	1.90	0.54
1:C:66:GLU:OE2	1:C:821:GLY:N	2.40	0.54
1:C:211:ASN:HB3	1:C:760:ASN:HD21	1.72	0.54
1:B:446:ALA:HB2	1:B:482:VAL:HG21	1.88	0.54
1:C:213:GLN:HE22	1:C:238:THR:HG22	1.73	0.54
1:A:139:VAL:HG23	1:A:326:PRO:HG2	1.89	0.54
1:A:396:PHE:HA	1:A:399:VAL:HG12	1.90	0.54
1:B:45:ILE:HG12	1:B:129:VAL:HG22	1.90	0.54
1:B:298:ASN:OD1	1:B:298:ASN:N	2.38	0.54
2:C:1106:PTY:H341	2:C:1106:PTY:H111	1.89	0.53
1:C:1:MET:HB2	2:C:1101:PTY:HC6	1.89	0.53
1:B:184:MET:HA	1:B:270:LEU:HD23	1.90	0.53
1:C:68:ASN:HD22	1:C:114:ALA:HB2	1.74	0.53
1:A:702:LEU:HB2	1:A:851:LEU:HD11	1.91	0.52
1:B:340:VAL:HG11	1:B:395:MET:HB3	1.92	0.52
1:A:931:LEU:O	1:A:934:THR:HG22	2.09	0.52
1:C:340:VAL:HG22	1:C:1000:GLN:HE21	1.75	0.52
1:A:641:GLU:O	1:A:650:ARG:NH2	2.43	0.52
1:B:982:PHE:C	1:B:984:LEU:H	2.12	0.52
1:A:944:LEU:HB2	1:A:971:ARG:HH11	1.75	0.52
1:A:767:ARG:HH21	1:A:767:ARG:CG	2.17	0.52
1:B:987:MET:N	1:B:988:PRO:CD	2.73	0.52
2:C:1101:PTY:H112	2:A:1102:PTY:H132	1.91	0.51
1:B:359:LEU:HD22	1:B:417:GLU:HG2	1.92	0.51
1:B:157:TYR:OH	1:B:316:PHE:O	2.27	0.51
1:B:676:THR:O	1:B:676:THR:HG22	2.11	0.51
1:A:58:GLN:NE2	1:A:818:ARG:HH11	2.09	0.51
1:B:113:LEU:HD21	1:A:108:GLN:HE22	1.76	0.51
1:B:730:ASP:OD1	1:B:806:SER:OG	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:318:PRO:HD2	1:B:321:LEU:HD13	1.92	0.51
1:B:776:GLU:HB2	1:B:779:TYR:HD2	1.76	0.51
1:B:26:ALA:HB2	2:B:1106:PTY:H121	1.93	0.51
1:A:21:LEU:HD11	2:A:1101:PTY:H192	1.92	0.51
2:B:1106:PTY:H172	2:B:1107:PTY:H422	1.93	0.51
1:C:997:SER:O	1:C:1001:ASN:ND2	2.45	0.51
1:A:905:VAL:HG13	1:A:906:PRO:HD3	1.92	0.51
1:B:237:GLN:NE2	1:B:238:THR:O	2.44	0.50
1:B:699:ARG:HG3	1:B:827:ILE:HD11	1.92	0.50
1:B:231:ASN:ND2	1:C:622:GLN:OE1	2.45	0.50
1:A:460:GLY:HA2	1:A:464:GLY:HA3	1.92	0.50
1:B:56:THR:HG23	1:A:213:GLN:HG3	1.94	0.50
1:B:898:PRO:HA	1:B:901:VAL:HG22	1.93	0.50
2:B:1108:PTY:H362	2:A:1111:PTY:H361	1.93	0.50
1:B:1022:VAL:HG23	1:B:1023:PRO:HD3	1.94	0.50
1:A:705:GLU:HB3	1:A:847:LEU:HD11	1.94	0.50
1:A:277:ILE:HA	1:A:613:ASN:O	2.11	0.50
1:A:923:ASN:HB3	1:A:927:PHE:HD2	1.74	0.50
1:A:74:ASN:HB3	1:A:95:GLU:HG2	1.94	0.50
1:B:890:ALA:HB1	1:A:11:PHE:HD1	1.76	0.49
1:B:404:LEU:HD23	1:B:937:LEU:HD23	1.93	0.49
1:B:563:PHE:H	1:B:676:THR:HG23	1.77	0.49
1:A:139:VAL:HG12	1:A:290:GLY:HA2	1.93	0.49
1:A:278:ILE:HG22	1:A:613:ASN:HB3	1.93	0.49
1:A:280:GLU:O	1:A:610:PHE:HA	2.12	0.49
3:C:1113:D12:H81	3:C:1116:D12:H71	1.93	0.49
1:B:115:MET:O	1:B:123:GLN:NE2	2.44	0.49
1:B:445:ILE:HG23	1:B:449:LEU:HD12	1.95	0.49
1:C:166:ILE:HD12	1:C:306:ILE:HG23	1.95	0.49
1:A:888:LEU:HD11	1:A:943:ILE:HG12	1.95	0.49
1:C:63:GLN:O	1:C:67:GLN:HB2	2.13	0.49
1:A:7:ASP:OD1	1:A:432:ARG:NH2	2.45	0.49
1:B:591:LEU:HD12	1:B:611:ALA:HB1	1.94	0.48
1:A:85:THR:HG21	1:A:620:ARG:HH12	1.78	0.48
1:A:545:TYR:OH	1:A:903:LEU:O	2.29	0.48
1:B:415:ASN:OD1	1:B:418:ARG:NH2	2.46	0.48
1:B:22:ALA:HB2	2:C:1102:PTY:H202	1.94	0.48
1:B:402:ILE:HA	1:B:405:LEU:HB2	1.95	0.48
1:B:890:ALA:HB2	1:A:14:VAL:HG11	1.95	0.48
2:C:1102:PTY:H212	2:C:1102:PTY:H331	1.96	0.48
1:B:924:ASP:OD1	1:B:924:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:886:LEU:HD11	2:C:1103:PTY:H162	1.95	0.48
1:A:674:LEU:HB3	1:A:676:THR:HG23	1.95	0.48
1:A:53:ASP:OD1	1:A:53:ASP:N	2.46	0.48
1:A:185:ARG:NH2	1:A:272:GLY:O	2.47	0.48
1:B:561:SER:HA	1:B:923:ASN:HB3	1.94	0.47
1:A:58:GLN:HE21	1:A:818:ARG:HH11	1.62	0.47
1:C:694:LYS:NZ	1:C:825:MET:HG3	2.29	0.47
3:C:1113:D12:H61	3:C:1116:D12:H52	1.97	0.47
1:C:139:VAL:HB	1:C:327:TYR:HB3	1.96	0.47
1:C:425:LEU:HD13	1:C:426:PRO:HD2	1.96	0.47
1:B:239:ARG:HD3	1:B:762:PHE:HA	1.95	0.47
2:C:1101:PTY:H332	2:C:1110:PTY:H151	1.97	0.47
1:A:619:GLY:HA3	1:A:815:ARG:NH1	2.29	0.47
1:B:270:LEU:HD22	1:B:271:GLY:H	1.79	0.47
1:B:743:ILE:HA	1:B:746:ILE:HD12	1.95	0.47
2:B:1105:PTY:H132	2:A:1108:PTY:H151	1.96	0.47
1:C:277:ILE:HA	1:C:613:ASN:O	2.14	0.47
1:C:808:ARG:NH2	1:C:810:GLU:OE2	2.48	0.47
2:C:1110:PTY:H112	2:C:1110:PTY:H141	1.78	0.47
1:A:188:MET:HG2	1:A:775:SER:HA	1.97	0.47
1:A:415:ASN:HD22	1:A:438:ILE:HG12	1.79	0.47
1:B:1:MET:SD	1:B:1:MET:N	2.83	0.46
1:A:454:VAL:HG23	1:A:455:PRO:HD3	1.97	0.46
1:B:527:TYR:OH	1:B:1019:ILE:O	2.32	0.46
1:B:562:SER:HA	1:B:676:THR:O	2.14	0.46
1:C:14:VAL:HG11	1:A:890:ALA:HB2	1.97	0.46
1:A:619:GLY:HA3	1:A:815:ARG:HH12	1.80	0.46
1:B:72:ILE:HD13	1:B:107:VAL:HG22	1.98	0.46
1:C:207:ILE:HG13	1:C:759:VAL:HG11	1.96	0.46
1:A:55:LYS:HD3	1:A:55:LYS:HA	1.70	0.46
1:C:350:LEU:HD12	1:C:984:LEU:HD23	1.97	0.46
1:C:983:ILE:HG13	1:C:984:LEU:HD12	1.96	0.46
1:A:560:PRO:O	1:A:922:THR:OG1	2.26	0.46
1:B:965:LEU:HA	1:B:968:VAL:HG12	1.97	0.46
2:B:1104:PTY:HC12	2:A:1103:PTY:H311	1.97	0.46
1:C:343:THR:HG23	1:C:988:PRO:HB2	1.98	0.46
1:A:767:ARG:HG3	1:A:767:ARG:NH2	2.28	0.46
1:C:143:ILE:HD11	1:C:322:LYS:HZ3	1.81	0.46
2:B:1101:PTY:H132	1:C:891:LEU:HD23	1.98	0.46
1:A:85:THR:HG21	1:A:620:ARG:NH1	2.31	0.46
1:A:944:LEU:HG	1:A:971:ARG:HE	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:764:ASP:HB3	1:B:769:LYS:HD3	1.97	0.46
1:C:38:ILE:HD11	1:C:671:ILE:HG21	1.97	0.46
1:C:372:VAL:HG23	1:C:373:PRO:HD3	1.98	0.45
1:B:20:MET:HB2	1:B:374:VAL:HG23	1.98	0.45
1:B:989:LEU:HG	1:B:1000:GLN:HB3	1.98	0.45
1:C:580:ALA:HB1	1:C:724:THR:HG22	1.99	0.45
1:A:877:TYR:OH	1:A:928:GLN:HG2	2.15	0.45
1:B:270:LEU:HD22	1:B:271:GLY:N	2.30	0.45
1:A:764:ASP:HB3	1:A:769:LYS:HD2	1.99	0.45
1:A:983:ILE:HD11	1:A:1011:MET:HB3	1.98	0.45
1:C:694:LYS:HZ3	1:C:825:MET:HG3	1.81	0.45
1:A:584:GLN:HB2	1:A:622:GLN:HE21	1.82	0.45
1:C:367:ILE:HD11	1:C:496:MET:HB2	1.98	0.45
1:C:790:TYR:HB3	1:C:798:MET:HB2	1.97	0.45
1:B:32:VAL:H	1:B:298:ASN:HB3	1.81	0.45
1:C:75:LEU:HD21	1:C:92:LEU:HD23	1.98	0.45
1:A:712:MET:SD	1:A:712:MET:N	2.89	0.44
1:A:767:ARG:CG	1:A:767:ARG:NH2	2.73	0.44
1:A:927:PHE:O	1:A:927:PHE:CD1	2.70	0.44
1:C:207:ILE:HD11	1:C:759:VAL:HG21	1.99	0.44
1:A:75:LEU:HD11	1:A:92:LEU:HD23	1.99	0.44
1:B:213:GLN:NE2	1:C:51:GLY:O	2.47	0.44
1:A:669:PRO:HD3	1:A:675:GLY:HA2	1.98	0.44
1:B:186:ILE:HB	1:B:773:VAL:HG12	1.98	0.44
1:B:52:ALA:HB1	1:B:56:THR:HB	2.00	0.44
1:C:11:PHE:HD1	1:A:890:ALA:HB1	1.82	0.44
2:C:1102:PTY:H342	2:C:1102:PTY:H171	1.98	0.44
1:A:32:VAL:HG22	1:A:390:ILE:HD11	1.99	0.44
1:B:740:GLY:O	1:B:794:ALA:N	2.50	0.44
1:A:11:PHE:HE1	2:A:1104:PTY:H352	1.83	0.44
1:A:904:VAL:HG11	1:A:942:ALA:HB2	1.99	0.44
1:C:643:LYS:O	1:C:647:ILE:HD12	2.17	0.44
1:A:960:LEU:HD21	1:A:1030:ARG:HG3	2.00	0.43
1:B:163:LYS:NZ	1:B:177:LEU:HB2	2.33	0.43
1:A:219:LEU:HB3	1:A:234:ILE:HD11	1.99	0.43
1:B:219:LEU:N	1:B:232:ALA:O	2.52	0.43
1:C:137:LEU:HD22	1:C:293:LEU:HD13	2.00	0.43
1:A:549:VAL:O	1:A:552:MET:HB3	2.18	0.43
1:C:81:ASN:HD22	1:C:815:ARG:HH21	1.66	0.43
1:B:608:SER:OG	1:B:630:SER:OG	2.37	0.43
1:A:988:PRO:O	1:A:992:SER:OG	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:58:GLN:HE21	1:B:818:ARG:HD2	1.83	0.43
1:C:45:ILE:HG12	1:C:129:VAL:HG22	2.01	0.43
1:C:798:MET:N	1:C:798:MET:SD	2.91	0.43
1:A:713:LEU:HD21	1:A:844:MET:HG2	2.01	0.43
1:C:705:GLU:CD	1:C:708:LYS:HZ1	2.22	0.43
1:C:48:SER:HA	1:C:87:THR:HA	2.00	0.43
1:C:545:TYR:OH	1:C:903:LEU:O	2.29	0.43
1:C:914:LEU:HD11	1:C:918:PHE:CE2	2.54	0.43
1:A:580:ALA:HA	1:A:623:ASN:HD22	1.84	0.43
1:A:721:LEU:HD12	1:A:815:ARG:HB2	2.00	0.43
1:C:99:ASP:OD1	1:C:99:ASP:N	2.52	0.43
1:B:249:ILE:HB	1:B:262:LEU:HD13	2.01	0.43
1:B:997:SER:O	1:B:1001:ASN:ND2	2.52	0.43
1:A:358:PHE:HD2	1:A:977:MET:HB3	1.83	0.43
1:B:945:ILE:HD11	1:B:1022:VAL:HB	2.01	0.42
1:A:10:ILE:HD11	2:A:1101:PTY:HC21	2.01	0.42
1:A:923:ASN:HB3	1:A:927:PHE:CG	2.53	0.42
2:A:1111:PTY:H212	2:A:1111:PTY:H242	1.80	0.42
1:C:475:VAL:HG11	2:C:1111:PTY:H312	2.01	0.42
1:A:181:GLN:HE22	1:A:767:ARG:HE	1.65	0.42
1:C:822:LEU:HD13	1:C:822:LEU:HA	1.81	0.42
1:A:182:TYR:HA	1:A:271:GLY:O	2.19	0.42
1:A:618:ALA:O	1:A:815:ARG:NH2	2.52	0.42
1:A:351:VAL:HG23	1:A:981:ALA:HB1	2.01	0.42
1:B:987:MET:CB	1:B:988:PRO:HD3	2.50	0.42
1:C:291:ILE:HD13	1:C:306:ILE:HD13	2.02	0.42
1:C:376:LEU:HG	1:C:376:LEU:H	1.58	0.42
1:C:735:LYS:HD2	1:C:735:LYS:HA	1.45	0.42
1:C:1021:PHE:HB3	1:C:1025:PHE:CE2	2.55	0.42
1:A:57:VAL:HG21	1:A:86:GLY:HA2	2.02	0.42
1:B:193:LEU:HD22	1:B:265:VAL:HB	2.02	0.42
3:C:1114:D12:H13	3:C:1116:D12:H13	2.02	0.42
1:A:254:ASN:HB2	1:A:258:SER:HB3	2.02	0.42
1:A:571:VAL:HG23	1:A:630:SER:HA	2.01	0.42
1:C:11:PHE:CD1	1:A:890:ALA:HB1	2.55	0.42
1:B:671:ILE:HG23	1:B:672:VAL:H	1.85	0.41
1:B:983:ILE:HD12	1:B:1012:VAL:CG2	2.45	0.41
1:C:427:PRO:HD3	1:C:499:PRO:HG3	2.01	0.41
2:C:1101:PTY:H311	2:C:1110:PTY:H131	2.02	0.41
1:B:445:ILE:HA	1:B:448:VAL:HG12	2.02	0.41
1:B:717:ARG:HA	1:B:718:PRO:HD3	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:ASP:OD2	1:A:767:ARG:NH1	2.53	0.41
1:A:213:GLN:HB2	1:A:239:ARG:HG3	2.02	0.41
1:B:109:ASN:HB3	1:A:108:GLN:HG2	2.02	0.41
1:B:841:MET:SD	1:B:863:SER:OG	2.67	0.41
1:C:909:VAL:HG13	1:C:931:LEU:HD11	2.02	0.41
1:C:118:LEU:HA	1:C:119:PRO:HD3	1.88	0.41
1:A:146:ASP:OD2	1:A:320:GLY:HA3	2.20	0.41
2:B:1106:PTY:H281	2:B:1106:PTY:H251	1.94	0.41
3:B:1110:D12:H122	3:B:1114:D12:H42	2.02	0.41
1:A:41:PRO:HB3	1:A:295:THR:HG21	2.03	0.41
1:B:43:VAL:HG11	1:B:107:VAL:HG21	2.03	0.41
1:B:983:ILE:CD1	1:B:1012:VAL:HG22	2.46	0.41
1:B:190:PRO:HA	1:B:193:LEU:HB2	2.03	0.41
1:B:705:GLU:HB3	1:B:847:LEU:HD11	2.03	0.41
1:B:820:ASN:O	1:A:168:ARG:NH2	2.54	0.41
1:C:58:GLN:HE21	1:C:818:ARG:HD2	1.86	0.41
1:A:58:GLN:HE21	1:A:818:ARG:HD2	1.85	0.41
1:B:496:MET:HG2	3:B:1114:D12:H112	2.02	0.41
1:A:300:LEU:HD23	1:A:330:THR:HG23	2.03	0.41
1:B:400:LEU:HD11	1:B:929:VAL:HG12	2.02	0.40
1:C:143:ILE:HD11	1:C:322:LYS:HZ1	1.85	0.40
1:C:368:PRO:HD3	1:C:413:VAL:HG21	2.03	0.40
1:C:584:GLN:HB2	1:C:622:GLN:HE21	1.85	0.40
1:B:19:ILE:HD11	1:B:480:LEU:HD11	2.03	0.40
2:A:1108:PTY:H141	2:A:1108:PTY:H111	1.81	0.40
1:B:575:MET:O	1:B:663:VAL:HA	2.21	0.40
1:A:923:ASN:HA	1:A:927:PHE:HB3	1.99	0.40
1:B:275:TYR:HD2	1:A:223:PRO:HD3	1.87	0.40
1:C:23:GLY:HA3	1:C:377:LEU:O	2.22	0.40
1:C:58:GLN:HE21	1:C:818:ARG:HH21	1.68	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	991/1057 (94%)	920 (93%)	69 (7%)	2 (0%)	47	79
1	B	1020/1057 (96%)	951 (93%)	61 (6%)	8 (1%)	19	58
1	C	1019/1057 (96%)	947 (93%)	69 (7%)	3 (0%)	41	74
All	All	3030/3171 (96%)	2818 (93%)	199 (7%)	13 (0%)	38	69

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	673	GLU
1	B	269	GLU
1	B	674	LEU
1	B	677	ALA
1	B	669	PRO
1	B	676	THR
1	C	76	MET
1	B	672	VAL
1	C	75	LEU
1	B	983	ILE
1	A	326	PRO
1	A	929	VAL
1	C	119	PRO

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	809/863 (94%)	797 (98%)	12 (2%)	65	85
1	B	833/863 (96%)	819 (98%)	14 (2%)	60	83
1	C	833/863 (96%)	816 (98%)	17 (2%)	55	80
All	All	2475/2589 (96%)	2432 (98%)	43 (2%)	62	83

All (43) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	1	MET
1	B	269	GLU
1	B	270	LEU
1	B	274	ASN
1	B	400	LEU
1	B	447	MET
1	B	486	LEU
1	B	498	LYS
1	B	547	ILE
1	B	674	LEU
1	B	717	ARG
1	B	871	ASN
1	B	965	LEU
1	B	1022	VAL
1	C	75	LEU
1	C	76	MET
1	C	117	LEU
1	C	231	ASN
1	C	263	ARG
1	C	349	ILE
1	C	376	LEU
1	C	442	LEU
1	C	455	PRO
1	C	536	ARG
1	C	659	LYS
1	C	717	ARG
1	C	735	LYS
1	C	780	ARG
1	C	820	ASN
1	C	822	LEU
1	C	914	LEU
1	A	3	ASN
1	A	55	LYS
1	A	231	ASN
1	A	298	ASN
1	A	410	ILE
1	A	650	ARG
1	A	667	ASN
1	A	722	GLU
1	A	905	VAL
1	A	927	PHE
1	A	931	LEU
1	A	977	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	58	GLN
1	B	274	ASN
1	B	338	HIS
1	B	871	ASN
1	B	941	ASN
1	C	58	GLN
1	C	68	ASN
1	C	176	GLN
1	C	181	GLN
1	C	1001	ASN
1	A	58	GLN
1	A	68	ASN
1	A	181	GLN
1	A	231	ASN
1	A	298	ASN
1	A	415	ASN
1	A	667	ASN
1	A	928	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

42 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	D12	B	1115	-	11,11,11	0.29	0	10,10,10	0.80	0
2	PTY	B	1109	-	40,40,49	0.96	4 (10%)	43,45,54	1.12	2 (4%)
2	PTY	C	1105	-	19,19,49	0.30	0	18,18,54	0.86	0
2	PTY	A	1104	-	42,42,49	0.92	4 (9%)	45,47,54	1.14	2 (4%)
2	PTY	C	1109	-	35,35,49	1.02	4 (11%)	38,40,54	1.17	2 (5%)
3	D12	B	1110	-	11,11,11	0.26	0	10,10,10	0.86	0
2	PTY	C	1101	-	31,31,49	1.08	4 (12%)	34,36,54	1.11	2 (5%)
3	D12	B	1111	-	11,11,11	0.27	0	10,10,10	0.88	0
2	PTY	A	1103	-	37,37,49	1.00	4 (10%)	40,42,54	1.15	2 (5%)
2	PTY	B	1106	-	41,41,49	0.95	4 (9%)	44,46,54	1.10	2 (4%)
2	PTY	B	1101	-	39,39,49	0.96	4 (10%)	42,44,54	1.11	2 (4%)
2	PTY	C	1102	-	38,38,49	0.98	4 (10%)	41,43,54	1.17	2 (4%)
2	PTY	C	1106	-	43,43,49	0.93	4 (9%)	46,48,54	1.08	2 (4%)
2	PTY	C	1108	-	33,33,49	1.05	4 (12%)	36,38,54	1.19	2 (5%)
2	PTY	A	1102	-	33,33,49	1.04	3 (9%)	36,38,54	1.27	2 (5%)
2	PTY	A	1105	-	30,30,49	1.10	3 (10%)	33,35,54	1.13	2 (6%)
2	PTY	C	1111	-	23,23,49	0.92	1 (4%)	25,26,54	0.92	1 (4%)
3	D12	C	1116	-	11,11,11	0.29	0	10,10,10	0.80	0
2	PTY	A	1101	-	49,49,49	0.88	4 (8%)	52,54,54	1.13	2 (3%)
2	PTY	A	1108	-	32,32,49	1.06	3 (9%)	35,37,54	1.11	3 (8%)
3	D12	C	1114	-	11,11,11	0.27	0	10,10,10	0.88	0
3	D12	C	1113	-	11,11,11	0.27	0	10,10,10	0.85	0
2	PTY	A	1110	-	28,28,49	1.11	3 (10%)	31,33,54	1.23	2 (6%)
2	PTY	B	1105	-	27,27,49	1.02	4 (14%)	29,29,54	1.18	2 (6%)
2	PTY	B	1104	-	30,30,49	1.09	4 (13%)	33,35,54	1.19	2 (6%)
3	D12	B	1113	-	11,11,11	0.28	0	10,10,10	0.81	0
2	PTY	A	1107	-	31,31,49	1.08	3 (9%)	34,36,54	1.30	2 (5%)
3	D12	B	1114	-	11,11,11	0.29	0	10,10,10	0.78	0
2	PTY	B	1102	-	28,28,49	1.13	4 (14%)	31,33,54	1.23	2 (6%)
2	PTY	A	1111	-	43,43,49	0.93	4 (9%)	46,48,54	1.07	2 (4%)
3	D12	C	1112	-	11,11,11	0.28	0	10,10,10	0.85	0
2	PTY	A	1109	-	37,37,49	0.99	4 (10%)	40,42,54	1.13	2 (5%)
3	D12	B	1112	-	8,8,11	0.27	0	7,7,10	0.80	0
3	D12	C	1115	-	11,11,11	0.29	0	10,10,10	0.80	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	PTY	B	1107	-	42,42,49	0.94	4 (9%)	45,47,54	1.14	2 (4%)
2	PTY	C	1103	-	21,21,49	0.99	1 (4%)	23,24,54	0.95	1 (4%)
2	PTY	B	1103	-	32,32,49	1.06	4 (12%)	35,37,54	1.09	2 (5%)
2	PTY	B	1108	-	34,34,49	1.02	3 (8%)	37,39,54	1.13	2 (5%)
2	PTY	C	1110	-	37,37,49	0.99	4 (10%)	40,42,54	1.11	2 (5%)
2	PTY	A	1106	-	36,36,49	1.00	4 (11%)	39,41,54	1.12	2 (5%)
2	PTY	C	1104	-	29,29,49	1.10	4 (13%)	32,34,54	1.18	2 (6%)
2	PTY	C	1107	-	30,30,49	1.10	4 (13%)	33,35,54	1.20	2 (6%)

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	D12	B	1115	-	-	2/9/9/9	-
2	PTY	B	1109	-	-	23/44/44/53	-
2	PTY	C	1105	-	-	5/17/17/53	-
2	PTY	A	1104	-	-	19/46/46/53	-
2	PTY	C	1109	-	-	17/39/39/53	-
3	D12	B	1110	-	-	4/9/9/9	-
2	PTY	C	1101	-	-	15/35/35/53	-
3	D12	B	1111	-	-	0/9/9/9	-
2	PTY	A	1103	-	-	13/41/41/53	-
2	PTY	B	1106	-	-	18/45/45/53	-
2	PTY	B	1101	-	-	19/43/43/53	-
2	PTY	C	1102	-	-	13/42/42/53	-
2	PTY	C	1106	-	-	18/47/47/53	-
2	PTY	C	1108	-	-	21/37/37/53	-
2	PTY	A	1102	-	-	14/37/37/53	-
2	PTY	A	1105	-	-	13/34/34/53	-
2	PTY	C	1111	-	-	16/24/24/53	-
3	D12	C	1116	-	-	2/9/9/9	-
2	PTY	A	1101	-	-	24/53/53/53	-
2	PTY	A	1108	-	-	16/36/36/53	-
3	D12	C	1114	-	-	0/9/9/9	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	D12	C	1113	-	-	1/9/9/9	-
2	PTY	A	1110	-	-	19/32/32/53	-
2	PTY	B	1105	-	-	10/29/29/53	-
2	PTY	B	1104	-	-	16/34/34/53	-
3	D12	B	1113	-	-	3/9/9/9	-
2	PTY	A	1107	-	-	17/34/34/53	-
3	D12	B	1114	-	-	3/9/9/9	-
2	PTY	B	1102	-	-	10/32/32/53	-
2	PTY	A	1111	-	-	20/47/47/53	-
3	D12	C	1112	-	-	0/9/9/9	-
2	PTY	A	1109	-	-	19/41/41/53	-
3	D12	B	1112	-	-	2/6/6/9	-
3	D12	C	1115	-	-	4/9/9/9	-
2	PTY	B	1107	-	-	19/46/46/53	-
2	PTY	C	1103	-	-	10/22/22/53	-
2	PTY	B	1103	-	-	14/36/36/53	-
2	PTY	B	1108	-	-	21/38/38/53	-
2	PTY	C	1110	-	-	15/41/41/53	-
2	PTY	A	1106	-	-	19/40/40/53	-
2	PTY	C	1104	-	-	20/33/33/53	-
2	PTY	C	1107	-	-	15/34/34/53	-

All (108) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1107	PTY	O7-C6	-2.60	1.40	1.46
2	C	1102	PTY	O7-C6	-2.60	1.40	1.46
2	B	1107	PTY	O7-C6	-2.60	1.40	1.46
2	A	1105	PTY	O7-C6	-2.59	1.40	1.46
2	A	1106	PTY	O7-C6	-2.59	1.40	1.46
2	A	1108	PTY	O7-C6	-2.57	1.40	1.46
2	A	1109	PTY	O7-C6	-2.57	1.40	1.46
2	A	1104	PTY	O7-C6	-2.56	1.40	1.46
2	B	1103	PTY	O7-C6	-2.55	1.40	1.46
2	A	1110	PTY	O7-C6	-2.54	1.40	1.46
2	C	1101	PTY	O7-C6	-2.53	1.40	1.46
2	C	1106	PTY	O7-C6	-2.51	1.40	1.46
2	A	1107	PTY	O7-C6	-2.50	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1104	PTY	O7-C6	-2.50	1.40	1.46
2	C	1109	PTY	O7-C6	-2.50	1.40	1.46
2	A	1105	PTY	O4-C30	2.50	1.40	1.33
2	A	1111	PTY	O7-C6	-2.48	1.40	1.46
2	C	1110	PTY	O7-C6	-2.47	1.40	1.46
2	C	1107	PTY	O4-C30	2.47	1.40	1.33
2	A	1108	PTY	O4-C30	2.47	1.40	1.33
2	B	1109	PTY	O7-C6	-2.46	1.40	1.46
2	B	1102	PTY	O4-C30	2.46	1.40	1.33
2	B	1105	PTY	O7-C6	-2.45	1.40	1.46
2	B	1108	PTY	O4-C30	2.45	1.40	1.33
2	B	1108	PTY	O7-C6	-2.45	1.40	1.46
2	A	1101	PTY	O7-C8	2.44	1.41	1.34
2	B	1105	PTY	O4-C30	2.44	1.40	1.33
2	B	1106	PTY	O7-C6	-2.44	1.40	1.46
2	B	1107	PTY	O4-C30	2.44	1.40	1.33
2	C	1110	PTY	O4-C30	2.43	1.40	1.33
2	A	1103	PTY	O7-C6	-2.43	1.40	1.46
2	B	1104	PTY	O4-C30	2.42	1.40	1.33
2	C	1101	PTY	O4-C30	2.42	1.40	1.33
2	A	1111	PTY	O4-C30	2.42	1.40	1.33
2	B	1109	PTY	O4-C30	2.41	1.40	1.33
2	B	1102	PTY	O7-C6	-2.40	1.40	1.46
2	A	1107	PTY	O4-C30	2.40	1.40	1.33
2	B	1101	PTY	O4-C30	2.39	1.40	1.33
2	B	1101	PTY	O7-C6	-2.39	1.40	1.46
2	A	1103	PTY	O4-C30	2.39	1.40	1.33
2	C	1106	PTY	O4-C30	2.39	1.40	1.33
2	C	1104	PTY	O4-C30	2.39	1.40	1.33
2	A	1102	PTY	O4-C30	2.38	1.40	1.33
2	A	1110	PTY	O4-C30	2.38	1.40	1.33
2	A	1109	PTY	O4-C30	2.37	1.40	1.33
2	C	1103	PTY	O7-C8	2.37	1.40	1.33
2	B	1104	PTY	O7-C6	-2.37	1.40	1.46
2	C	1108	PTY	O7-C8	2.37	1.41	1.34
2	A	1106	PTY	O4-C30	2.37	1.40	1.33
2	B	1103	PTY	O4-C30	2.37	1.40	1.33
2	B	1106	PTY	O4-C30	2.35	1.40	1.33
2	A	1101	PTY	O4-C30	2.34	1.40	1.33
2	C	1109	PTY	O4-C30	2.34	1.40	1.33
2	A	1102	PTY	O7-C8	2.32	1.40	1.34
2	A	1104	PTY	O4-C30	2.31	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1107	PTY	O7-C8	2.30	1.40	1.35
2	C	1108	PTY	O7-C6	-2.29	1.40	1.46
2	C	1108	PTY	O4-C30	2.29	1.40	1.33
2	C	1102	PTY	O4-C30	2.28	1.40	1.33
2	B	1104	PTY	O7-C8	2.28	1.40	1.34
2	B	1105	PTY	O7-C8	2.26	1.40	1.34
2	B	1109	PTY	O7-C8	2.23	1.40	1.34
2	C	1109	PTY	O4-C1	-2.23	1.40	1.45
2	B	1103	PTY	O7-C8	2.22	1.40	1.34
2	A	1103	PTY	O7-C8	2.22	1.40	1.34
2	B	1106	PTY	O7-C8	2.21	1.40	1.34
2	C	1111	PTY	O4-C30	2.20	1.39	1.33
2	C	1101	PTY	O7-C8	2.20	1.40	1.34
2	A	1101	PTY	O7-C6	-2.19	1.41	1.46
2	A	1111	PTY	O7-C8	2.19	1.40	1.34
2	C	1108	PTY	O4-C1	-2.18	1.40	1.45
2	B	1101	PTY	O7-C8	2.18	1.40	1.34
2	B	1102	PTY	O7-C8	2.18	1.40	1.34
2	B	1106	PTY	O4-C1	-2.18	1.40	1.45
2	C	1102	PTY	O4-C1	-2.16	1.40	1.45
2	A	1110	PTY	O7-C8	2.16	1.40	1.34
2	C	1110	PTY	O7-C8	2.16	1.40	1.34
2	A	1102	PTY	O7-C6	-2.15	1.41	1.46
2	C	1109	PTY	O7-C8	2.14	1.40	1.34
2	A	1101	PTY	O4-C1	-2.14	1.40	1.45
2	C	1104	PTY	O7-C8	2.14	1.40	1.34
2	C	1102	PTY	O7-C8	2.12	1.40	1.34
2	B	1108	PTY	O7-C8	2.12	1.40	1.34
2	A	1104	PTY	O4-C1	-2.11	1.40	1.45
2	C	1106	PTY	O7-C8	2.10	1.40	1.34
2	A	1109	PTY	O4-C1	-2.10	1.40	1.45
2	A	1103	PTY	O4-C1	-2.09	1.40	1.45
2	C	1110	PTY	O4-C1	-2.09	1.40	1.45
2	C	1107	PTY	O4-C1	-2.09	1.40	1.45
2	B	1107	PTY	O7-C8	2.09	1.40	1.34
2	A	1106	PTY	O7-C8	2.09	1.40	1.34
2	B	1103	PTY	O4-C1	-2.08	1.40	1.45
2	C	1107	PTY	O7-C8	2.07	1.40	1.34
2	B	1101	PTY	O4-C1	-2.07	1.40	1.45
2	A	1109	PTY	O7-C8	2.06	1.40	1.34
2	C	1101	PTY	O4-C1	-2.05	1.40	1.45
2	B	1105	PTY	O4-C1	-2.05	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1104	PTY	O4-C1	-2.04	1.40	1.45
2	B	1109	PTY	O4-C1	-2.04	1.40	1.45
2	A	1106	PTY	O4-C1	-2.04	1.40	1.45
2	A	1105	PTY	O7-C8	2.04	1.40	1.34
2	C	1106	PTY	O4-C1	-2.03	1.40	1.45
2	A	1111	PTY	O4-C1	-2.03	1.40	1.45
2	A	1108	PTY	O7-C8	2.02	1.40	1.34
2	B	1104	PTY	O4-C1	-2.01	1.40	1.45
2	B	1102	PTY	O4-C1	-2.01	1.40	1.45
2	A	1104	PTY	O7-C8	2.01	1.40	1.34
2	B	1107	PTY	O4-C1	-2.01	1.40	1.45

All (59) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1107	PTY	O7-C8-C11	5.00	120.28	111.09
2	A	1102	PTY	O7-C8-C11	4.76	121.76	111.50
2	C	1108	PTY	O7-C8-C11	4.74	121.72	111.50
2	A	1101	PTY	O7-C8-C11	4.70	121.64	111.50
2	B	1109	PTY	O7-C8-C11	4.34	120.86	111.50
2	B	1102	PTY	O7-C8-C11	4.29	120.74	111.50
2	C	1109	PTY	O7-C8-C11	4.24	120.64	111.50
2	A	1103	PTY	O7-C8-C11	4.20	120.54	111.50
2	B	1104	PTY	O7-C8-C11	4.17	120.48	111.50
2	C	1102	PTY	O7-C8-C11	4.13	120.41	111.50
2	C	1110	PTY	O7-C8-C11	4.12	120.38	111.50
2	B	1106	PTY	O7-C8-C11	4.11	120.37	111.50
2	C	1106	PTY	O7-C8-C11	4.07	120.28	111.50
2	B	1101	PTY	O7-C8-C11	4.06	120.25	111.50
2	C	1104	PTY	O7-C8-C11	4.00	120.12	111.50
2	C	1107	PTY	O7-C8-C11	4.00	120.11	111.50
2	A	1111	PTY	O7-C8-C11	3.99	120.10	111.50
2	A	1109	PTY	O7-C8-C11	3.93	119.97	111.50
2	C	1101	PTY	O7-C8-C11	3.92	119.94	111.50
2	A	1110	PTY	O7-C8-C11	3.88	119.87	111.50
2	A	1105	PTY	O7-C8-C11	3.87	119.83	111.50
2	B	1107	PTY	O7-C8-C11	3.86	119.83	111.50
2	A	1106	PTY	O7-C8-C11	3.86	119.83	111.50
2	A	1104	PTY	O7-C8-C11	3.85	119.79	111.50
2	B	1108	PTY	O7-C8-C11	3.82	119.73	111.50
2	A	1108	PTY	O7-C8-C11	3.58	119.21	111.50
2	B	1103	PTY	O7-C8-C11	3.47	118.98	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1105	PTY	O7-C8-C11	3.33	118.68	111.50
2	A	1110	PTY	O4-C30-C31	3.07	119.43	111.38
2	B	1107	PTY	O4-C30-C31	3.04	121.45	111.91
2	C	1103	PTY	O7-C8-C11	2.86	120.87	111.91
2	B	1102	PTY	O4-C30-C31	2.81	120.74	111.91
2	A	1107	PTY	O4-C30-C31	2.81	120.73	111.91
2	B	1103	PTY	O4-C30-C31	2.76	120.56	111.91
2	B	1101	PTY	O4-C30-C31	2.74	120.50	111.91
2	C	1102	PTY	O4-C30-C31	2.72	120.44	111.91
2	A	1102	PTY	O4-C30-C31	2.68	120.30	111.91
2	C	1107	PTY	O4-C30-C31	2.66	120.26	111.91
2	A	1108	PTY	O4-C30-C31	2.64	120.20	111.91
2	A	1103	PTY	O4-C30-C31	2.63	120.17	111.91
2	B	1104	PTY	O4-C30-C31	2.63	120.15	111.91
2	A	1106	PTY	O4-C30-C31	2.61	120.09	111.91
2	C	1106	PTY	O4-C30-C31	2.61	120.09	111.91
2	B	1108	PTY	O4-C30-C31	2.60	120.08	111.91
2	A	1109	PTY	O4-C30-C31	2.60	120.07	111.91
2	A	1104	PTY	O4-C30-C31	2.60	120.06	111.91
2	A	1101	PTY	O4-C30-C31	2.57	119.96	111.91
2	C	1104	PTY	O4-C30-C31	2.54	119.89	111.91
2	C	1101	PTY	O4-C30-C31	2.54	119.88	111.91
2	C	1111	PTY	O4-C30-C31	2.50	119.77	111.91
2	C	1109	PTY	O4-C30-C31	2.45	119.59	111.91
2	C	1108	PTY	O4-C30-C31	2.45	119.59	111.91
2	A	1111	PTY	O4-C30-C31	2.40	119.43	111.91
2	B	1105	PTY	O4-C30-C31	2.39	119.42	111.91
2	B	1109	PTY	O4-C30-C31	2.35	119.30	111.91
2	B	1106	PTY	O4-C30-C31	2.34	119.26	111.91
2	C	1110	PTY	O4-C30-C31	2.31	119.15	111.91
2	A	1105	PTY	O4-C30-C31	2.28	119.08	111.91
2	A	1108	PTY	C6-O7-C8	-2.04	112.77	117.79

There are no chirality outliers.

All (529) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1101	PTY	C5-O14-P1-O11
2	B	1101	PTY	C5-O14-P1-O12
2	B	1103	PTY	C3-O11-P1-O12
2	B	1103	PTY	C5-O14-P1-O11
2	B	1103	PTY	C5-O14-P1-O12

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Mol	Chain	Res	Type	Atoms
2	B	1103	PTY	C5-O14-P1-O13
2	B	1104	PTY	O4-C1-C6-O7
2	B	1104	PTY	C5-O14-P1-O13
2	B	1105	PTY	O4-C1-C6-O7
2	B	1105	PTY	O14-C5-C6-C1
2	B	1105	PTY	O14-C5-C6-O7
2	B	1106	PTY	N1-C2-C3-O11
2	B	1106	PTY	C5-O14-P1-O12
2	B	1106	PTY	C5-O14-P1-O13
2	B	1107	PTY	C3-O11-P1-O13
2	B	1108	PTY	N1-C2-C3-O11
2	B	1108	PTY	C5-O14-P1-O13
2	B	1109	PTY	N1-C2-C3-O11
2	B	1109	PTY	O10-C8-O7-C6
2	B	1109	PTY	C11-C8-O7-C6
2	B	1109	PTY	C3-O11-P1-O12
2	B	1109	PTY	C3-O11-P1-O13
2	B	1109	PTY	C3-O11-P1-O14
2	B	1109	PTY	C5-O14-P1-O11
2	B	1109	PTY	C5-O14-P1-O12
2	B	1109	PTY	C5-O14-P1-O13
2	C	1101	PTY	C3-O11-P1-O13
2	C	1101	PTY	C5-O14-P1-O11
2	C	1101	PTY	C5-O14-P1-O12
2	C	1101	PTY	C5-O14-P1-O13
2	C	1102	PTY	N1-C2-C3-O11
2	C	1103	PTY	N1-C2-C3-O11
2	C	1103	PTY	O14-C5-C6-O7
2	C	1103	PTY	C3-O11-P1-O13
2	C	1103	PTY	C3-O11-P1-O14
2	C	1104	PTY	C3-O11-P1-O12
2	C	1104	PTY	C3-O11-P1-O13
2	C	1106	PTY	O4-C1-C6-O7
2	C	1106	PTY	N1-C2-C3-O11
2	C	1106	PTY	C5-O14-P1-O11
2	C	1106	PTY	C5-O14-P1-O12
2	C	1107	PTY	N1-C2-C3-O11
2	C	1107	PTY	C3-O11-P1-O13
2	C	1108	PTY	O10-C8-O7-C6
2	C	1108	PTY	C11-C8-O7-C6
2	C	1108	PTY	C3-O11-P1-O14
2	C	1108	PTY	C5-O14-P1-O13

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Mol	Chain	Res	Type	Atoms
2	C	1109	PTY	O4-C1-C6-O7
2	C	1109	PTY	C3-O11-P1-O12
2	C	1109	PTY	C3-O11-P1-O13
2	C	1109	PTY	C5-O14-P1-O12
2	C	1110	PTY	O14-C5-C6-O7
2	C	1110	PTY	O10-C8-O7-C6
2	C	1110	PTY	C11-C8-O7-C6
2	C	1110	PTY	C5-O14-P1-O11
2	C	1111	PTY	O14-C5-C6-C1
2	C	1111	PTY	C3-O11-P1-O12
2	C	1111	PTY	C3-O11-P1-O13
2	A	1101	PTY	C11-C8-O7-C6
2	A	1101	PTY	C3-O11-P1-O13
2	A	1101	PTY	C3-O11-P1-O14
2	A	1101	PTY	C5-O14-P1-O11
2	A	1102	PTY	O10-C8-O7-C6
2	A	1102	PTY	C11-C8-O7-C6
2	A	1104	PTY	C3-O11-P1-O12
2	A	1104	PTY	C3-O11-P1-O13
2	A	1104	PTY	C5-O14-P1-O11
2	A	1104	PTY	C5-O14-P1-O12
2	A	1104	PTY	C5-O14-P1-O13
2	A	1105	PTY	C3-O11-P1-O13
2	A	1105	PTY	C3-O11-P1-O14
2	A	1106	PTY	O4-C1-C6-O7
2	A	1106	PTY	N1-C2-C3-O11
2	A	1106	PTY	O10-C8-O7-C6
2	A	1107	PTY	C11-C8-O7-C6
2	A	1107	PTY	C5-O14-P1-O12
2	A	1107	PTY	C5-O14-P1-O13
2	A	1108	PTY	O10-C8-O7-C6
2	A	1108	PTY	C11-C8-O7-C6
2	A	1108	PTY	C5-O14-P1-O11
2	A	1108	PTY	C5-O14-P1-O12
2	A	1108	PTY	C5-O14-P1-O13
2	A	1110	PTY	C5-O14-P1-O11
2	A	1110	PTY	C5-O14-P1-O12
2	A	1110	PTY	C5-O14-P1-O13
2	A	1111	PTY	N1-C2-C3-O11
2	A	1111	PTY	C3-O11-P1-O12
2	A	1111	PTY	C3-O11-P1-O13
2	A	1111	PTY	C5-O14-P1-O13

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Mol	Chain	Res	Type	Atoms
2	C	1103	PTY	O10-C8-O7-C6
2	C	1103	PTY	C11-C8-O7-C6
2	B	1101	PTY	O30-C30-O4-C1
2	B	1103	PTY	O30-C30-O4-C1
2	B	1106	PTY	O30-C30-O4-C1
2	C	1104	PTY	O30-C30-O4-C1
2	C	1107	PTY	O30-C30-O4-C1
2	A	1102	PTY	O30-C30-O4-C1
2	A	1104	PTY	O30-C30-O4-C1
2	A	1106	PTY	O30-C30-O4-C1
2	A	1110	PTY	O30-C30-O4-C1
2	B	1104	PTY	O10-C8-O7-C6
2	B	1108	PTY	O10-C8-O7-C6
2	A	1101	PTY	O10-C8-O7-C6
2	B	1101	PTY	C31-C30-O4-C1
2	B	1103	PTY	C31-C30-O4-C1
2	B	1107	PTY	C31-C30-O4-C1
2	C	1104	PTY	C31-C30-O4-C1
2	A	1102	PTY	C31-C30-O4-C1
2	A	1104	PTY	C31-C30-O4-C1
2	A	1106	PTY	C31-C30-O4-C1
2	A	1108	PTY	C31-C30-O4-C1
2	A	1110	PTY	C31-C30-O4-C1
2	B	1104	PTY	C11-C8-O7-C6
2	B	1108	PTY	C11-C8-O7-C6
2	A	1106	PTY	C11-C8-O7-C6
2	A	1107	PTY	O10-C8-O7-C6
2	B	1106	PTY	C31-C30-O4-C1
2	C	1107	PTY	C31-C30-O4-C1
2	B	1107	PTY	O30-C30-O4-C1
2	A	1108	PTY	O30-C30-O4-C1
2	B	1107	PTY	C11-C8-O7-C6
2	A	1111	PTY	C11-C8-O7-C6
2	C	1108	PTY	C31-C30-O4-C1
2	C	1108	PTY	O30-C30-O4-C1
2	A	1111	PTY	O10-C8-O7-C6
2	C	1107	PTY	O14-C5-C6-O7
2	C	1102	PTY	C11-C8-O7-C6
2	B	1105	PTY	C8-C11-C12-C13
2	B	1107	PTY	C8-C11-C12-C13
2	C	1101	PTY	C30-C31-C32-C33
2	B	1107	PTY	O10-C8-O7-C6

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Mol	Chain	Res	Type	Atoms
2	A	1105	PTY	C11-C8-O7-C6
2	A	1109	PTY	C11-C8-O7-C6
2	B	1106	PTY	C11-C8-O7-C6
2	C	1104	PTY	C11-C8-O7-C6
2	B	1103	PTY	C3-O11-P1-O14
2	B	1104	PTY	C5-O14-P1-O11
2	B	1106	PTY	C5-O14-P1-O11
2	B	1107	PTY	C3-O11-P1-O14
2	C	1102	PTY	C5-O14-P1-O11
2	C	1104	PTY	C3-O11-P1-O14
2	C	1104	PTY	C5-O14-P1-O11
2	C	1107	PTY	C3-O11-P1-O14
2	C	1108	PTY	C5-O14-P1-O11
2	C	1109	PTY	C3-O11-P1-O14
2	C	1109	PTY	C5-O14-P1-O11
2	C	1111	PTY	C3-O11-P1-O14
2	A	1102	PTY	C5-O14-P1-O11
2	A	1104	PTY	C3-O11-P1-O14
2	A	1106	PTY	C5-O14-P1-O11
2	A	1107	PTY	C5-O14-P1-O11
2	A	1109	PTY	C3-O11-P1-O14
2	A	1109	PTY	C5-O14-P1-O11
2	A	1111	PTY	C3-O11-P1-O14
2	A	1107	PTY	C31-C30-O4-C1
2	A	1106	PTY	C30-C31-C32-C33
2	B	1106	PTY	O10-C8-O7-C6
2	C	1102	PTY	O10-C8-O7-C6
2	A	1104	PTY	O10-C8-O7-C6
2	A	1105	PTY	O10-C8-O7-C6
2	A	1109	PTY	O10-C8-O7-C6
2	C	1107	PTY	C11-C8-O7-C6
2	A	1104	PTY	C11-C8-O7-C6
2	A	1110	PTY	C11-C8-O7-C6
2	C	1101	PTY	C33-C34-C35-C36
2	C	1103	PTY	C15-C16-C17-C18
2	C	1104	PTY	C13-C14-C15-C16
2	C	1106	PTY	C34-C35-C36-C37
2	C	1110	PTY	C15-C16-C17-C18
2	B	1105	PTY	C11-C12-C13-C14
2	C	1101	PTY	C32-C33-C34-C35
2	C	1108	PTY	C33-C34-C35-C36
2	A	1103	PTY	C31-C32-C33-C34

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Mol	Chain	Res	Type	Atoms
2	C	1104	PTY	O10-C8-O7-C6
2	A	1110	PTY	O10-C8-O7-C6
2	C	1111	PTY	C30-C31-C32-C33
2	C	1106	PTY	C35-C36-C37-C38
2	C	1108	PTY	C11-C12-C13-C14
2	A	1102	PTY	C13-C14-C15-C16
3	C	1116	D12	C5-C6-C7-C8
2	B	1106	PTY	C15-C16-C17-C18
2	B	1107	PTY	C31-C32-C33-C34
2	B	1108	PTY	C11-C12-C13-C14
2	B	1108	PTY	C32-C33-C34-C35
2	C	1110	PTY	C32-C33-C34-C35
2	A	1101	PTY	C25-C26-C27-C28
2	A	1103	PTY	C16-C17-C18-C19
2	A	1110	PTY	C14-C15-C16-C17
2	B	1106	PTY	C14-C15-C16-C17
2	A	1107	PTY	C31-C32-C33-C34
3	C	1115	D12	C6-C7-C8-C9
2	B	1104	PTY	C11-C12-C13-C14
2	B	1104	PTY	C15-C16-C17-C18
2	B	1105	PTY	C32-C33-C34-C35
2	C	1106	PTY	C33-C34-C35-C36
3	B	1110	D12	C4-C5-C6-C7
2	B	1108	PTY	C8-C11-C12-C13
2	C	1102	PTY	C8-C11-C12-C13
2	A	1104	PTY	C11-C12-C13-C14
2	A	1107	PTY	O30-C30-O4-C1
2	A	1106	PTY	C32-C33-C34-C35
2	C	1107	PTY	O10-C8-O7-C6
2	B	1102	PTY	C11-C8-O7-C6
2	C	1104	PTY	C14-C15-C16-C17
2	B	1109	PTY	C8-C11-C12-C13
2	B	1101	PTY	C39-C40-C41-C42
2	A	1102	PTY	C16-C17-C18-C19
2	A	1103	PTY	C33-C34-C35-C36
2	A	1108	PTY	C13-C14-C15-C16
3	C	1115	D12	C3-C4-C5-C6
2	C	1104	PTY	C11-C12-C13-C14
2	C	1108	PTY	C31-C32-C33-C34
2	A	1104	PTY	C17-C18-C19-C20
2	A	1101	PTY	N1-C2-C3-O11
2	A	1103	PTY	N1-C2-C3-O11

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Mol	Chain	Res	Type	Atoms
2	B	1101	PTY	C11-C12-C13-C14
2	B	1101	PTY	C40-C41-C42-C43
2	A	1101	PTY	C12-C13-C14-C15
2	A	1101	PTY	C14-C15-C16-C17
2	A	1101	PTY	C39-C40-C41-C42
2	B	1102	PTY	C11-C12-C13-C14
2	A	1111	PTY	C37-C38-C39-C40
2	B	1103	PTY	C13-C14-C15-C16
2	A	1101	PTY	C34-C35-C36-C37
2	A	1111	PTY	C15-C16-C17-C18
2	C	1109	PTY	C30-C31-C32-C33
2	B	1107	PTY	C15-C16-C17-C18
2	A	1107	PTY	O4-C1-C6-C5
2	B	1102	PTY	C30-C31-C32-C33
2	A	1101	PTY	C37-C38-C39-C40
2	B	1107	PTY	C11-C12-C13-C14
2	A	1107	PTY	C35-C36-C37-C38
3	B	1110	D12	C6-C7-C8-C9
2	B	1106	PTY	C32-C33-C34-C35
2	C	1102	PTY	C32-C33-C34-C35
2	A	1107	PTY	C40-C41-C42-C43
2	B	1102	PTY	O10-C8-O7-C6
2	B	1106	PTY	C18-C19-C20-C21
2	C	1105	PTY	C12-C13-C14-C15
2	B	1101	PTY	C8-C11-C12-C13
2	B	1106	PTY	C22-C23-C24-C25
2	A	1111	PTY	C30-C31-C32-C33
2	C	1103	PTY	C8-C11-C12-C13
2	C	1106	PTY	C31-C30-O4-C1
2	B	1106	PTY	C23-C24-C25-C26
3	C	1113	D12	C4-C5-C6-C7
2	C	1108	PTY	C30-C31-C32-C33
2	A	1109	PTY	C30-C31-C32-C33
2	B	1101	PTY	C36-C37-C38-C39
2	A	1104	PTY	C32-C33-C34-C35
2	C	1110	PTY	C36-C37-C38-C39
2	C	1102	PTY	C17-C18-C19-C20
2	C	1109	PTY	C11-C8-O7-C6
2	A	1111	PTY	O14-C5-C6-O7
2	C	1107	PTY	C17-C18-C19-C20
3	B	1115	D12	C7-C8-C9-C10
2	C	1106	PTY	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
2	A	1103	PTY	C34-C35-C36-C37
2	A	1106	PTY	C31-C32-C33-C34
2	A	1101	PTY	C35-C36-C37-C38
2	A	1109	PTY	C12-C13-C14-C15
2	C	1109	PTY	O10-C8-O7-C6
2	B	1108	PTY	C5-O14-P1-O11
2	C	1107	PTY	C5-O14-P1-O11
2	A	1103	PTY	C31-C30-O4-C1
2	C	1104	PTY	O14-C5-C6-C1
2	C	1107	PTY	O14-C5-C6-C1
2	C	1110	PTY	O14-C5-C6-C1
3	B	1113	D12	C6-C7-C8-C9
2	C	1106	PTY	C37-C38-C39-C40
2	A	1105	PTY	C12-C13-C14-C15
2	A	1111	PTY	C19-C20-C21-C22
2	B	1102	PTY	O4-C1-C6-C5
2	C	1106	PTY	O4-C1-C6-C5
2	C	1106	PTY	C17-C18-C19-C20
2	A	1103	PTY	O4-C1-C6-C5
2	A	1106	PTY	O4-C1-C6-C5
2	A	1108	PTY	O4-C1-C6-C5
2	A	1102	PTY	C11-C12-C13-C14
2	C	1101	PTY	C35-C36-C37-C38
2	C	1106	PTY	O30-C30-O4-C1
2	B	1109	PTY	C34-C35-C36-C37
2	A	1107	PTY	C41-C42-C43-C44
2	A	1101	PTY	C21-C22-C23-C24
2	A	1109	PTY	C36-C37-C38-C39
2	B	1108	PTY	O14-C5-C6-O7
2	C	1102	PTY	O14-C5-C6-O7
2	A	1103	PTY	C17-C18-C19-C20
2	B	1104	PTY	C14-C15-C16-C17
2	A	1103	PTY	O30-C30-O4-C1
2	A	1108	PTY	C31-C32-C33-C34
2	C	1105	PTY	C11-C12-C13-C14
2	B	1109	PTY	C39-C40-C41-C42
2	A	1101	PTY	C36-C37-C38-C39
3	B	1110	D12	C11-C10-C9-C8
2	C	1108	PTY	C14-C15-C16-C17
2	C	1102	PTY	O14-C5-C6-C1
2	A	1101	PTY	O14-C5-C6-C1
2	A	1111	PTY	O14-C5-C6-C1

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Mol	Chain	Res	Type	Atoms
2	B	1109	PTY	C36-C37-C38-C39
2	A	1110	PTY	C12-C13-C14-C15
2	A	1104	PTY	C6-C5-O14-P1
2	A	1108	PTY	C6-C5-O14-P1
2	A	1104	PTY	C31-C32-C33-C34
2	B	1103	PTY	C11-C12-C13-C14
2	B	1101	PTY	O4-C1-C6-C5
2	B	1103	PTY	O4-C1-C6-C5
2	B	1104	PTY	O4-C1-C6-C5
2	C	1109	PTY	O4-C1-C6-C5
2	C	1110	PTY	C34-C35-C36-C37
2	B	1101	PTY	O14-C5-C6-O7
2	C	1101	PTY	O14-C5-C6-O7
2	A	1101	PTY	O14-C5-C6-O7
2	A	1108	PTY	O14-C5-C6-O7
2	A	1109	PTY	O14-C5-C6-O7
2	C	1111	PTY	C31-C30-O4-C1
2	B	1103	PTY	C8-C11-C12-C13
2	B	1105	PTY	C12-C11-C8-O7
2	B	1101	PTY	O4-C1-C6-O7
2	C	1101	PTY	C31-C32-C33-C34
3	B	1113	D12	C1-C2-C3-C4
2	C	1103	PTY	C16-C17-C18-C19
2	A	1110	PTY	C17-C18-C19-C20
2	C	1101	PTY	C6-C5-O14-P1
2	C	1107	PTY	C6-C5-O14-P1
2	A	1103	PTY	C11-C12-C13-C14
3	C	1115	D12	C4-C5-C6-C7
2	C	1111	PTY	C37-C38-C39-C40
2	C	1108	PTY	C8-C11-C12-C13
3	B	1110	D12	C3-C4-C5-C6
2	B	1108	PTY	O14-C5-C6-C1
2	A	1110	PTY	O14-C5-C6-C1
2	C	1111	PTY	C35-C36-C37-C38
2	A	1101	PTY	C33-C34-C35-C36
2	B	1109	PTY	C38-C39-C40-C41
2	C	1111	PTY	C33-C34-C35-C36
2	A	1106	PTY	C12-C13-C14-C15
2	B	1108	PTY	C35-C36-C37-C38
2	A	1106	PTY	C39-C40-C41-C42
3	C	1116	D12	C6-C7-C8-C9
2	B	1109	PTY	O4-C1-C6-C5

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Mol	Chain	Res	Type	Atoms
2	C	1109	PTY	O14-C5-C6-O7
2	A	1101	PTY	C18-C19-C20-C21
2	B	1109	PTY	C11-C12-C13-C14
2	C	1109	PTY	C15-C16-C17-C18
2	B	1103	PTY	O4-C1-C6-O7
2	A	1103	PTY	O4-C1-C6-O7
2	A	1107	PTY	O4-C1-C6-O7
2	C	1111	PTY	O30-C30-O4-C1
2	A	1111	PTY	C36-C37-C38-C39
2	B	1104	PTY	C30-C31-C32-C33
2	B	1101	PTY	C37-C38-C39-C40
2	C	1102	PTY	C35-C36-C37-C38
2	C	1107	PTY	C15-C16-C17-C18
2	A	1110	PTY	C13-C14-C15-C16
2	C	1111	PTY	C32-C33-C34-C35
2	B	1109	PTY	C14-C15-C16-C17
2	A	1109	PTY	C13-C14-C15-C16
2	B	1101	PTY	C30-C31-C32-C33
2	B	1106	PTY	C3-O11-P1-O14
2	B	1107	PTY	C5-O14-P1-O11
2	C	1101	PTY	C3-O11-P1-O14
2	C	1102	PTY	C3-O11-P1-O14
2	A	1111	PTY	C5-O14-P1-O11
2	B	1104	PTY	C6-C5-O14-P1
2	B	1107	PTY	C6-C5-O14-P1
2	B	1109	PTY	C6-C5-O14-P1
2	B	1101	PTY	C5-O14-P1-O13
2	B	1102	PTY	C5-O14-P1-O13
2	B	1103	PTY	C3-O11-P1-O13
2	B	1104	PTY	C5-O14-P1-O12
2	B	1107	PTY	C3-O11-P1-O12
2	B	1107	PTY	C5-O14-P1-O12
2	B	1108	PTY	C5-O14-P1-O12
2	C	1102	PTY	C5-O14-P1-O12
2	C	1104	PTY	C5-O14-P1-O12
2	C	1104	PTY	C5-O14-P1-O13
2	C	1106	PTY	C5-O14-P1-O13
2	C	1107	PTY	C3-O11-P1-O12
2	C	1109	PTY	C5-O14-P1-O13
2	A	1102	PTY	C5-O14-P1-O12
2	A	1102	PTY	C5-O14-P1-O13
2	A	1103	PTY	C3-O11-P1-O13

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Mol	Chain	Res	Type	Atoms
2	A	1103	PTY	C5-O14-P1-O12
2	A	1106	PTY	C5-O14-P1-O12
2	A	1107	PTY	C3-O11-P1-O12
2	A	1109	PTY	C3-O11-P1-O13
2	A	1109	PTY	C5-O14-P1-O12
2	A	1111	PTY	C5-O14-P1-O12
2	B	1101	PTY	O14-C5-C6-C1
2	B	1109	PTY	O14-C5-C6-C1
2	C	1101	PTY	O14-C5-C6-C1
2	C	1108	PTY	O14-C5-C6-C1
2	B	1109	PTY	C32-C33-C34-C35
2	B	1104	PTY	N1-C2-C3-O11
2	C	1110	PTY	N1-C2-C3-O11
2	A	1101	PTY	C12-C11-C8-O7
2	B	1107	PTY	C35-C36-C37-C38
2	C	1108	PTY	O14-C5-C6-O7
2	A	1110	PTY	O14-C5-C6-O7
2	B	1108	PTY	C30-C31-C32-C33
2	A	1105	PTY	C16-C17-C18-C19
2	A	1107	PTY	C38-C39-C40-C41
2	A	1101	PTY	C38-C39-C40-C41
2	B	1105	PTY	O4-C1-C6-C5
2	A	1111	PTY	C11-C12-C13-C14
2	B	1102	PTY	O4-C1-C6-O7
2	C	1104	PTY	O4-C1-C6-O7
2	A	1108	PTY	O4-C1-C6-O7
2	B	1101	PTY	C34-C35-C36-C37
2	C	1110	PTY	C12-C13-C14-C15
2	A	1109	PTY	C6-C5-O14-P1
3	B	1114	D12	C3-C4-C5-C6
2	C	1111	PTY	C31-C32-C33-C34
2	A	1102	PTY	C1-C6-O7-C8
3	B	1114	D12	C2-C3-C4-C5
2	C	1102	PTY	C6-C5-O14-P1
2	C	1109	PTY	C6-C5-O14-P1
2	C	1104	PTY	O14-C5-C6-O7
2	A	1105	PTY	O14-C5-C6-O7
3	B	1112	D12	C3-C4-C5-C6
2	A	1104	PTY	C40-C41-C42-C43
2	B	1108	PTY	O4-C1-C6-O7
2	C	1108	PTY	O4-C1-C6-O7
2	C	1101	PTY	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
2	B	1104	PTY	C3-O11-P1-O14
2	C	1111	PTY	C5-O14-P1-O11
2	A	1102	PTY	C3-O11-P1-O14
2	A	1105	PTY	C5-O14-P1-O11
2	A	1106	PTY	C3-O11-P1-O14
2	A	1110	PTY	C3-O11-P1-O14
3	C	1115	D12	C5-C6-C7-C8
2	C	1110	PTY	O4-C1-C6-C5
2	B	1108	PTY	C15-C16-C17-C18
2	C	1104	PTY	C8-C11-C12-C13
2	A	1101	PTY	C31-C32-C33-C34
2	A	1109	PTY	C38-C39-C40-C41
2	A	1109	PTY	C33-C34-C35-C36
2	B	1106	PTY	C6-C5-O14-P1
2	C	1106	PTY	O10-C8-O7-C6
2	A	1111	PTY	C35-C36-C37-C38
2	A	1108	PTY	O14-C5-C6-C1
2	C	1106	PTY	C11-C8-O7-C6
2	C	1105	PTY	C18-C19-C20-C21
2	C	1106	PTY	C32-C33-C34-C35
2	B	1108	PTY	C33-C34-C35-C36
2	C	1105	PTY	C13-C14-C15-C16
2	A	1110	PTY	C15-C16-C17-C18
2	C	1107	PTY	C13-C14-C15-C16
2	C	1111	PTY	C34-C35-C36-C37
2	C	1110	PTY	C13-C14-C15-C16
2	A	1104	PTY	C1-C6-O7-C8
2	A	1104	PTY	C5-C6-O7-C8
2	A	1104	PTY	C19-C20-C21-C22
2	A	1109	PTY	C35-C36-C37-C38
2	B	1102	PTY	C5-O14-P1-O11
2	C	1105	PTY	C15-C16-C17-C18
2	B	1101	PTY	C35-C36-C37-C38
2	A	1101	PTY	C31-C30-O4-C1
2	C	1109	PTY	O14-C5-C6-C1
2	A	1105	PTY	O14-C5-C6-C1
2	A	1109	PTY	C8-C11-C12-C13
2	B	1105	PTY	C39-C40-C41-C42
2	A	1105	PTY	O4-C1-C6-O7
2	C	1110	PTY	C31-C32-C33-C34
3	B	1112	D12	C4-C5-C6-C7
2	A	1101	PTY	O30-C30-O4-C1

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Mol	Chain	Res	Type	Atoms
2	C	1111	PTY	C36-C37-C38-C39
2	C	1108	PTY	O4-C1-C6-C5
2	C	1108	PTY	C12-C13-C14-C15
2	B	1104	PTY	C13-C14-C15-C16
2	B	1106	PTY	C11-C12-C13-C14
3	B	1114	D12	C4-C5-C6-C7
2	B	1109	PTY	O14-C5-C6-O7
2	B	1107	PTY	C36-C37-C38-C39
2	A	1109	PTY	O14-C5-C6-C1
2	A	1105	PTY	C8-C11-C12-C13
2	C	1109	PTY	C12-C11-C8-O7
2	A	1105	PTY	C12-C11-C8-O7
2	B	1101	PTY	C6-C5-O14-P1
2	C	1103	PTY	C11-C12-C13-C14
2	B	1109	PTY	C35-C36-C37-C38
2	A	1109	PTY	C11-C12-C13-C14
2	B	1103	PTY	C31-C32-C33-C34
2	B	1102	PTY	C12-C11-C8-O7
2	B	1108	PTY	O4-C30-C31-C32
2	C	1104	PTY	C32-C33-C34-C35
2	A	1109	PTY	C37-C38-C39-C40
2	B	1109	PTY	C16-C17-C18-C19
2	C	1104	PTY	O4-C1-C6-C5
2	C	1108	PTY	C12-C11-C8-O7
2	B	1105	PTY	C12-C11-C8-O10
2	A	1111	PTY	C31-C32-C33-C34
2	A	1106	PTY	C12-C11-C8-O7
2	A	1111	PTY	O4-C1-C6-O7
2	B	1108	PTY	C12-C11-C8-O7
2	A	1106	PTY	O4-C30-C31-C32
2	C	1101	PTY	C13-C14-C15-C16
2	A	1110	PTY	C8-C11-C12-C13
3	B	1113	D12	C2-C3-C4-C5
2	B	1108	PTY	O30-C30-C31-C32
2	B	1108	PTY	O4-C1-C6-C5
2	A	1102	PTY	O4-C30-C31-C32
2	A	1105	PTY	C12-C11-C8-O10
2	C	1104	PTY	C6-C5-O14-P1
2	A	1106	PTY	C12-C11-C8-O10
2	B	1102	PTY	C3-O11-P1-O12
2	A	1110	PTY	C3-O11-P1-O13
2	C	1108	PTY	C12-C11-C8-O10

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Mol	Chain	Res	Type	Atoms
2	B	1107	PTY	N1-C2-C3-O11
2	C	1109	PTY	N1-C2-C3-O11
2	C	1106	PTY	C13-C14-C15-C16
2	B	1108	PTY	C12-C11-C8-O10
2	B	1104	PTY	C2-C3-O11-P1
2	B	1106	PTY	C2-C3-O11-P1
2	C	1108	PTY	C2-C3-O11-P1
2	C	1110	PTY	C2-C3-O11-P1
2	A	1107	PTY	C1-C6-O7-C8
2	A	1107	PTY	C5-C6-O7-C8
2	A	1102	PTY	O30-C30-C31-C32
2	A	1106	PTY	O30-C30-C31-C32
2	A	1110	PTY	C12-C11-C8-O7
2	B	1107	PTY	C34-C35-C36-C37
2	B	1107	PTY	O14-C5-C6-O7
2	C	1111	PTY	O4-C30-C31-C32
3	B	1115	D12	C1-C2-C3-C4
2	A	1108	PTY	C12-C11-C8-O10
2	A	1108	PTY	C12-C11-C8-O7
2	A	1110	PTY	C12-C11-C8-O10

There are no ring outliers.

25 monomers are involved in 34 short contacts:

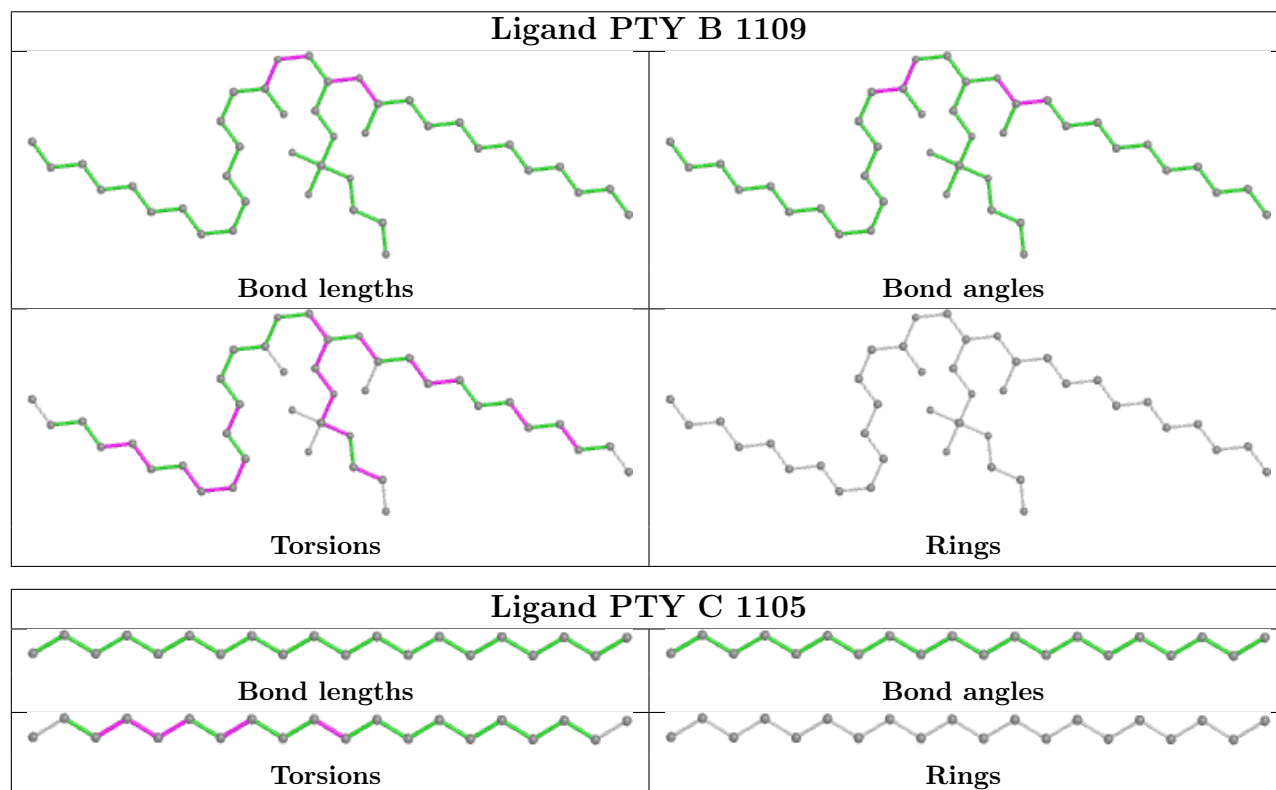
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1109	PTY	1	0
2	A	1104	PTY	1	0
3	B	1110	D12	1	0
2	C	1101	PTY	4	0
2	A	1103	PTY	2	0
2	B	1106	PTY	3	0
2	B	1101	PTY	1	0
2	C	1102	PTY	3	0
2	C	1106	PTY	2	0
2	A	1102	PTY	1	0
2	C	1111	PTY	1	0
3	C	1116	D12	3	0
2	A	1101	PTY	2	0
2	A	1108	PTY	2	0
3	C	1114	D12	1	0
3	C	1113	D12	2	0
2	B	1105	PTY	1	0

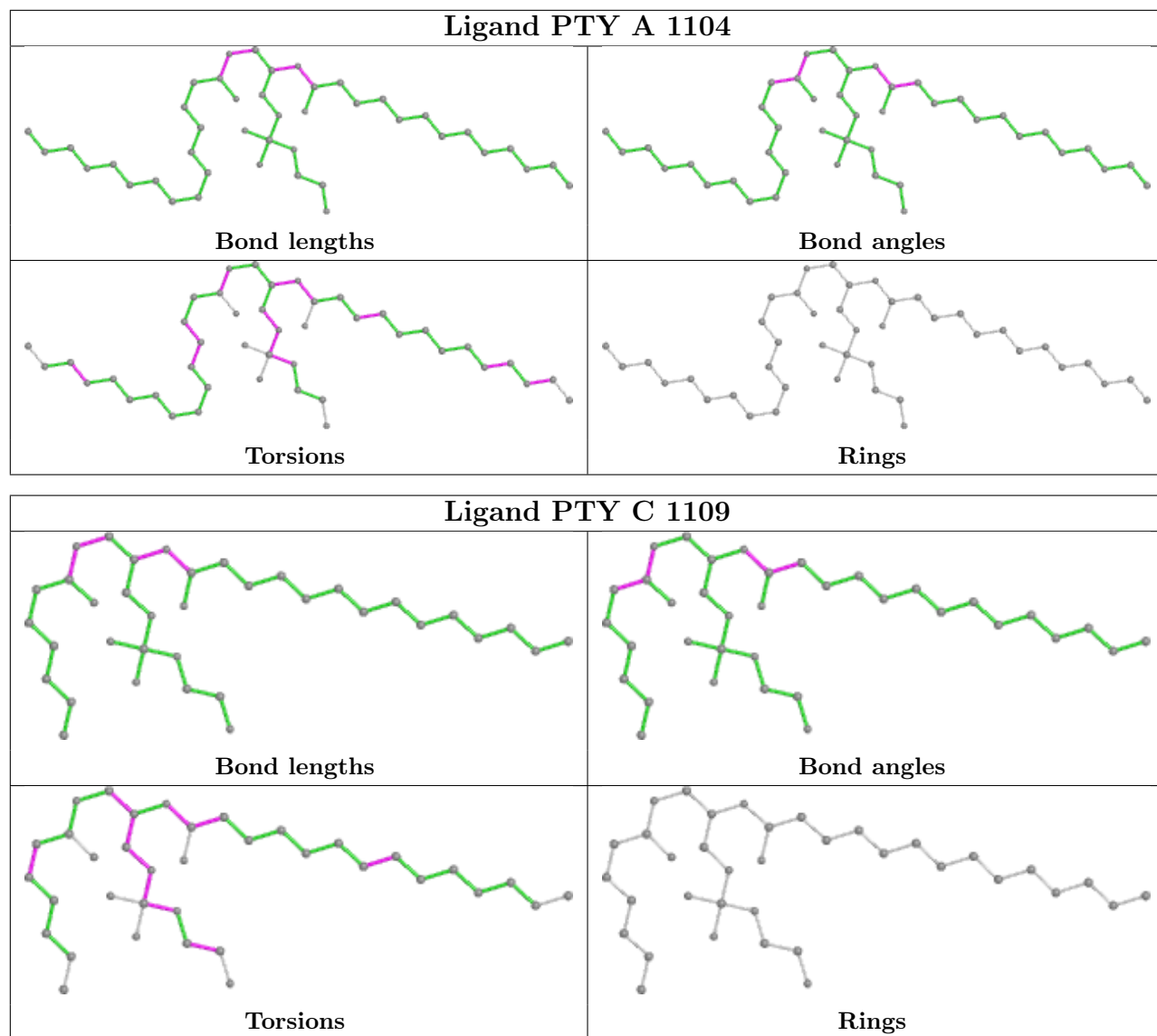
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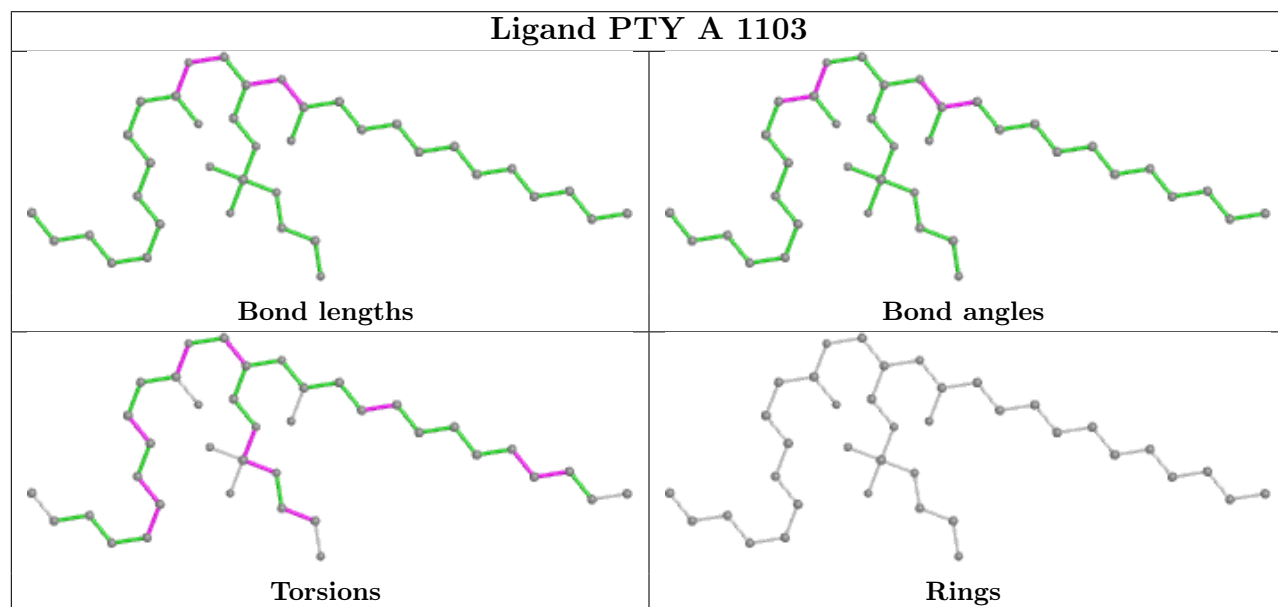
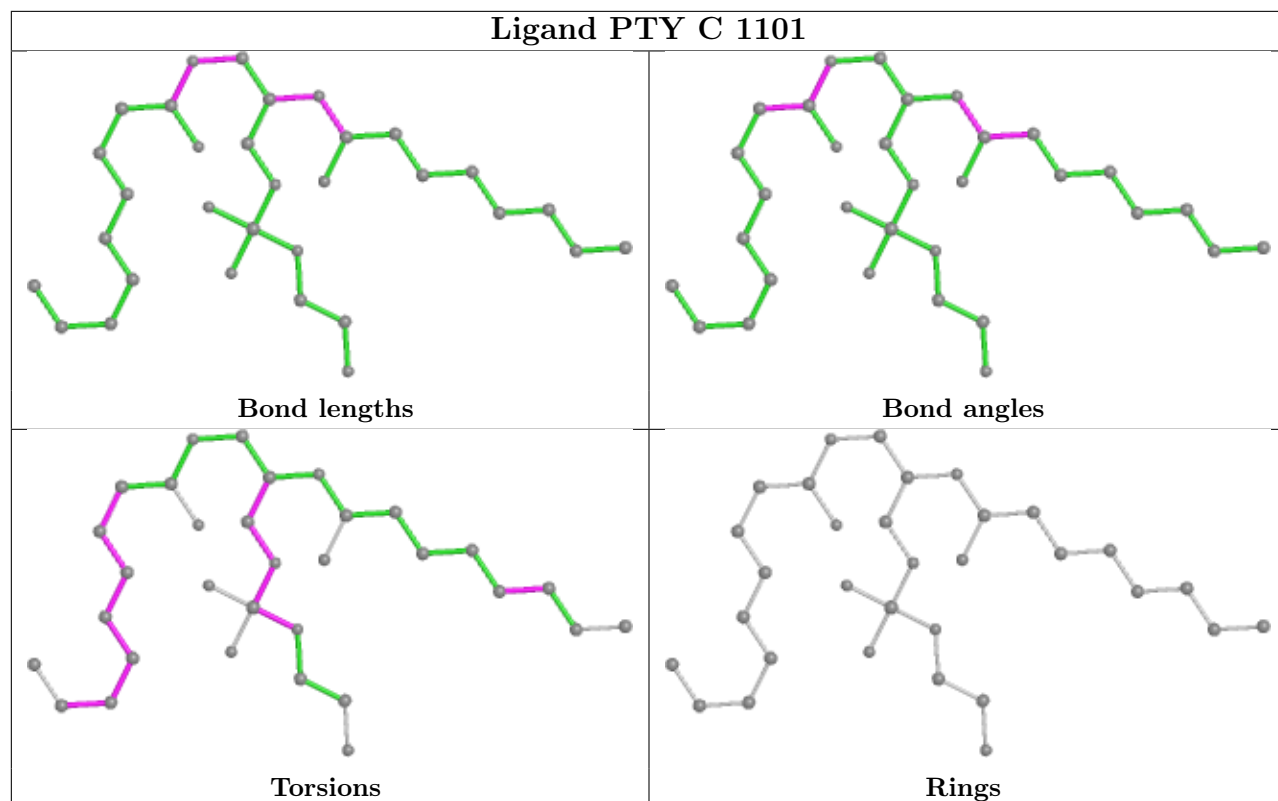
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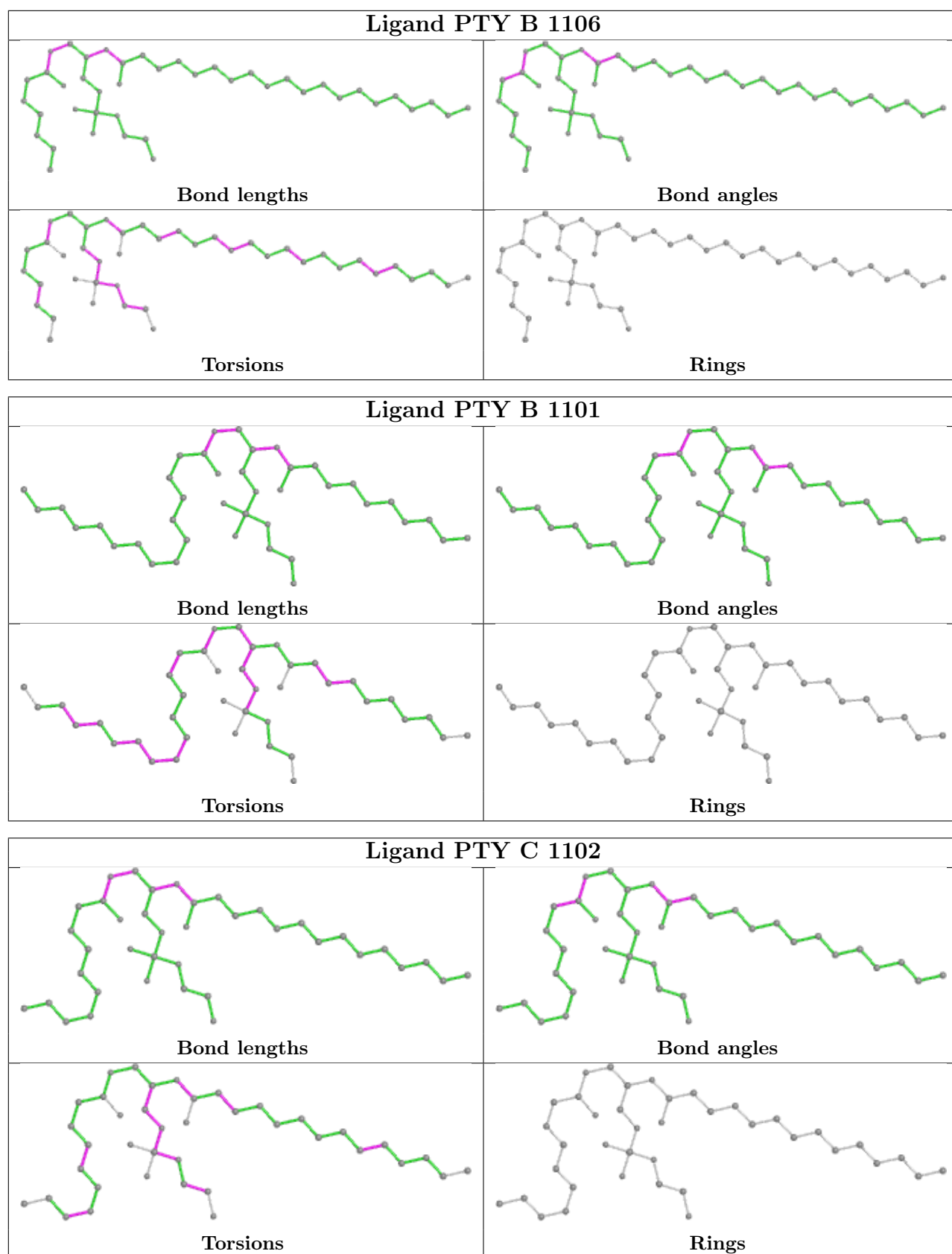
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1104	PTY	1	0
3	B	1114	D12	2	0
2	A	1111	PTY	3	0
2	B	1107	PTY	2	0
2	C	1103	PTY	1	0
2	B	1108	PTY	1	0
2	C	1110	PTY	3	0
2	C	1104	PTY	1	0

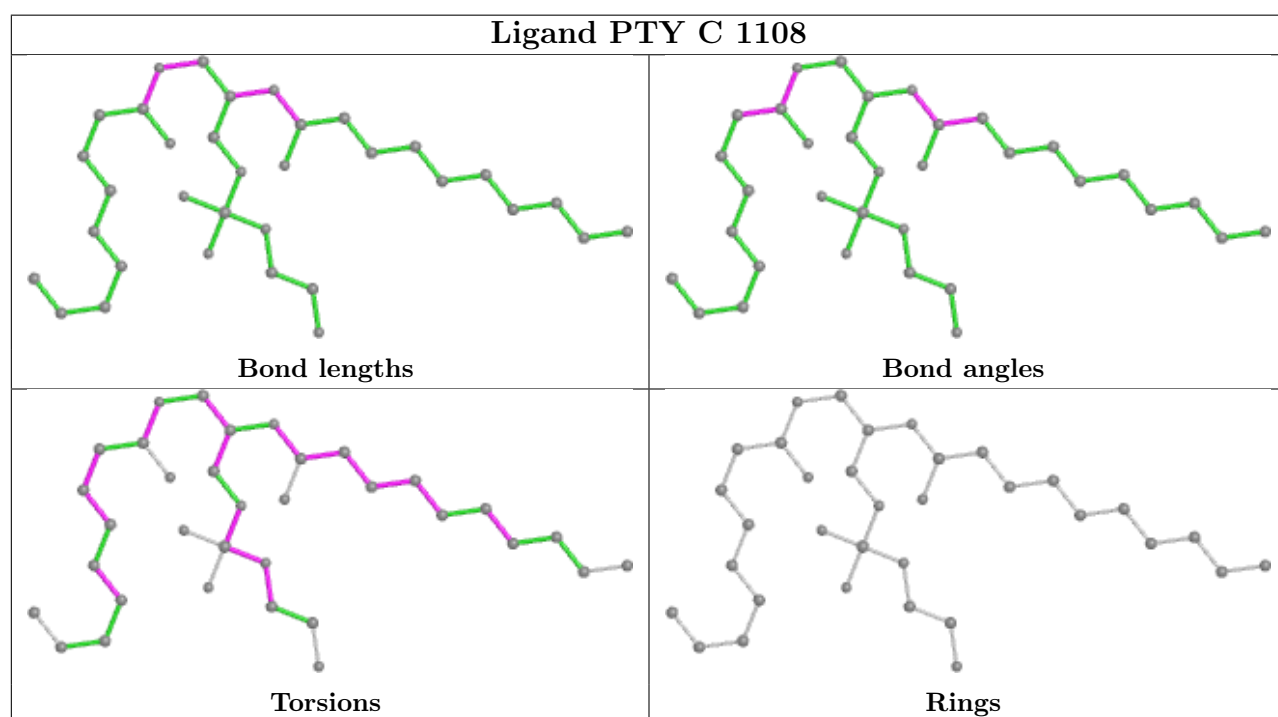
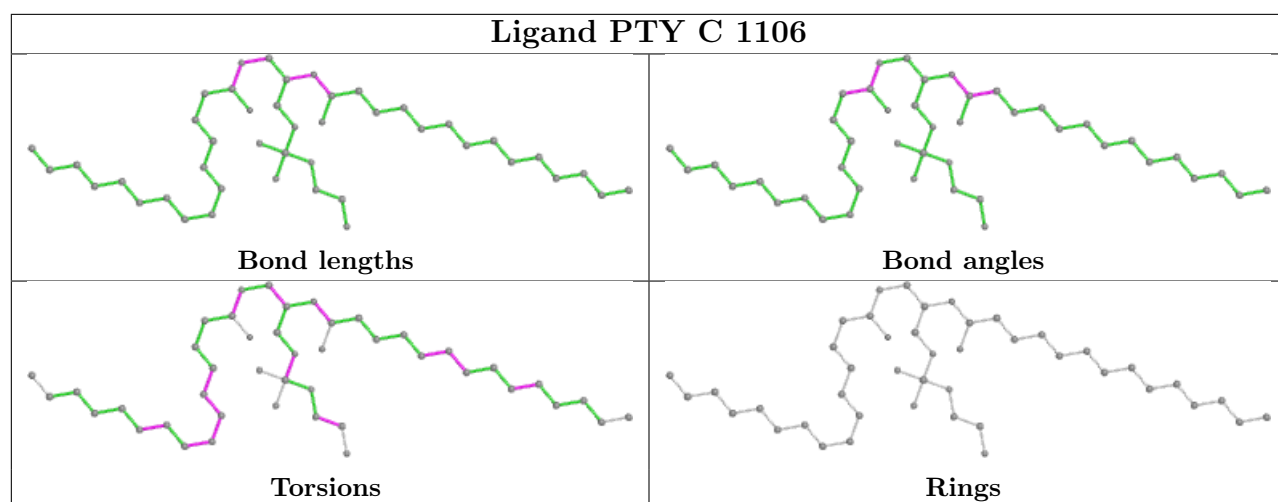
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

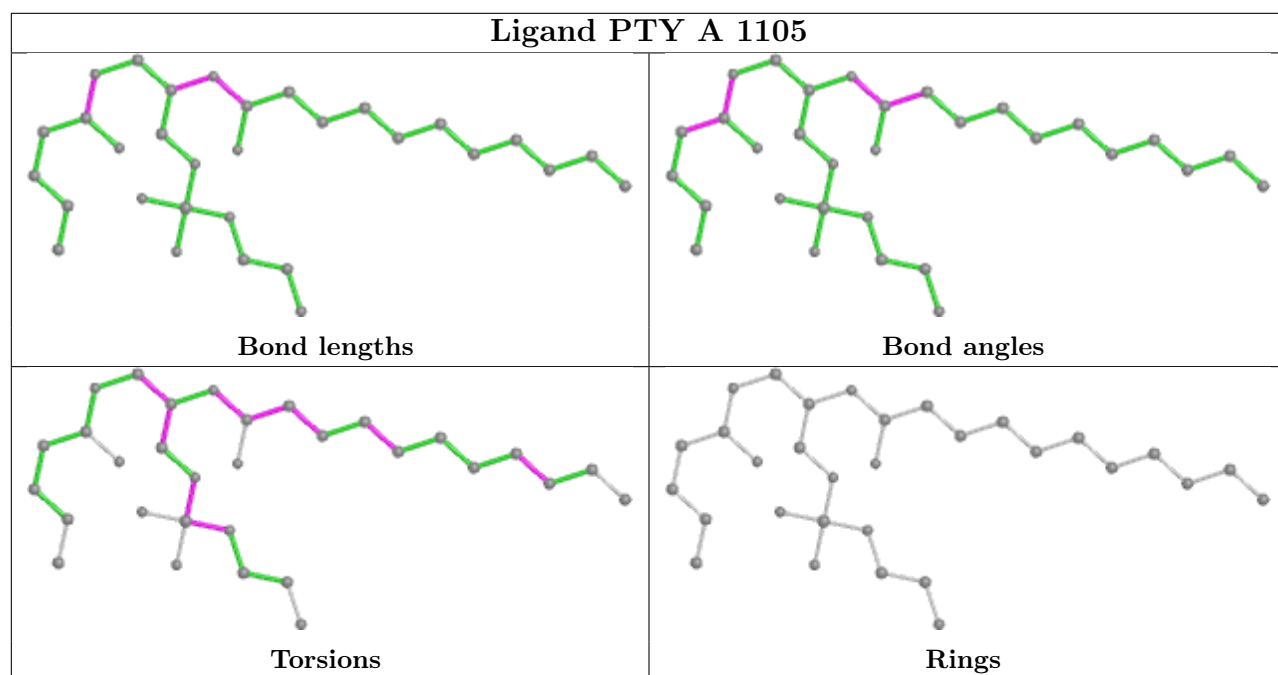
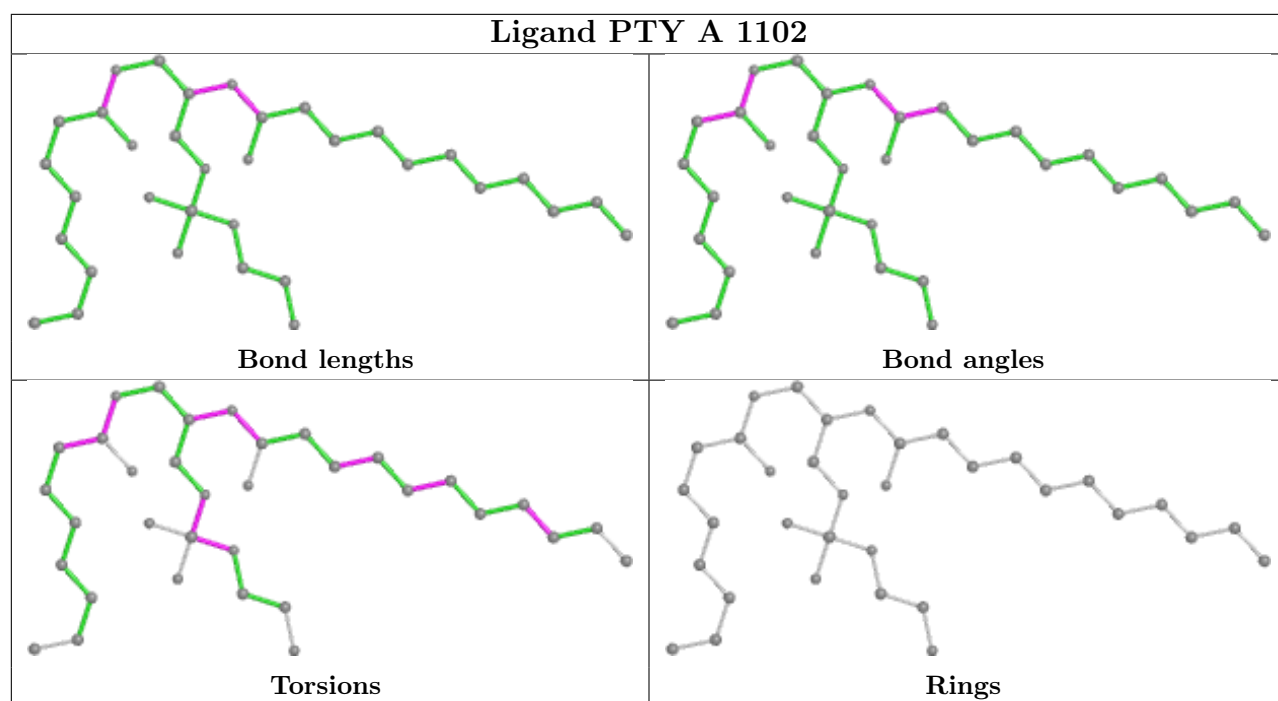


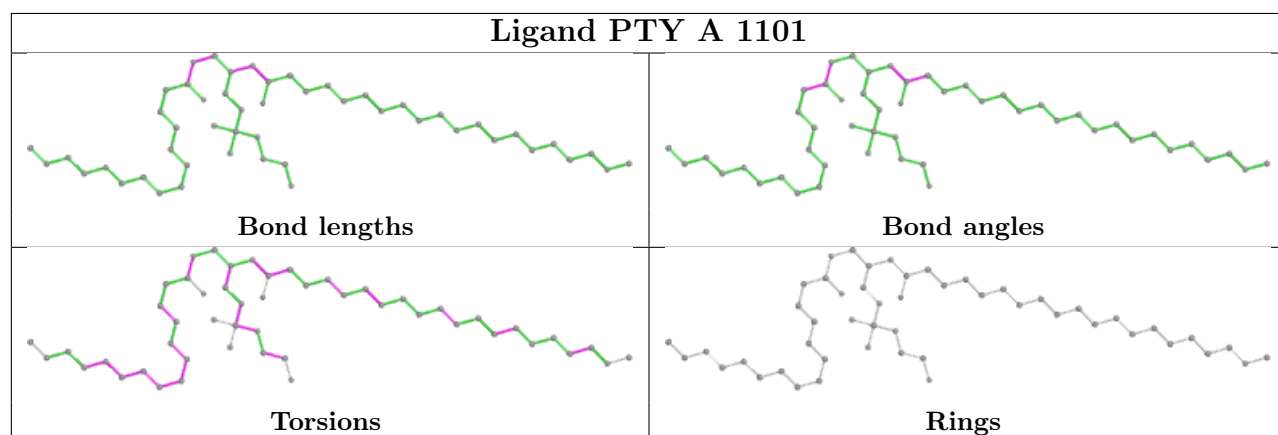
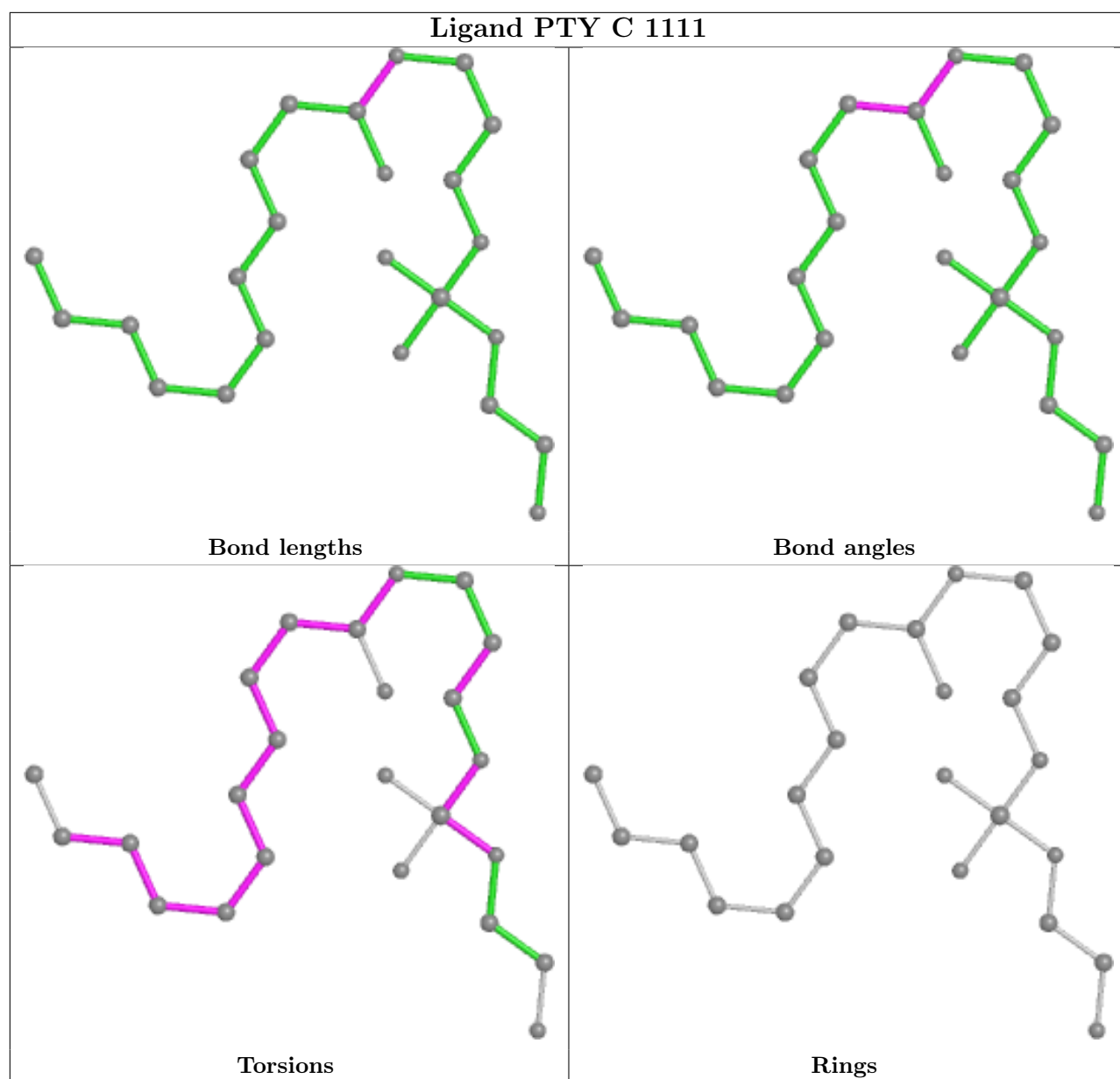


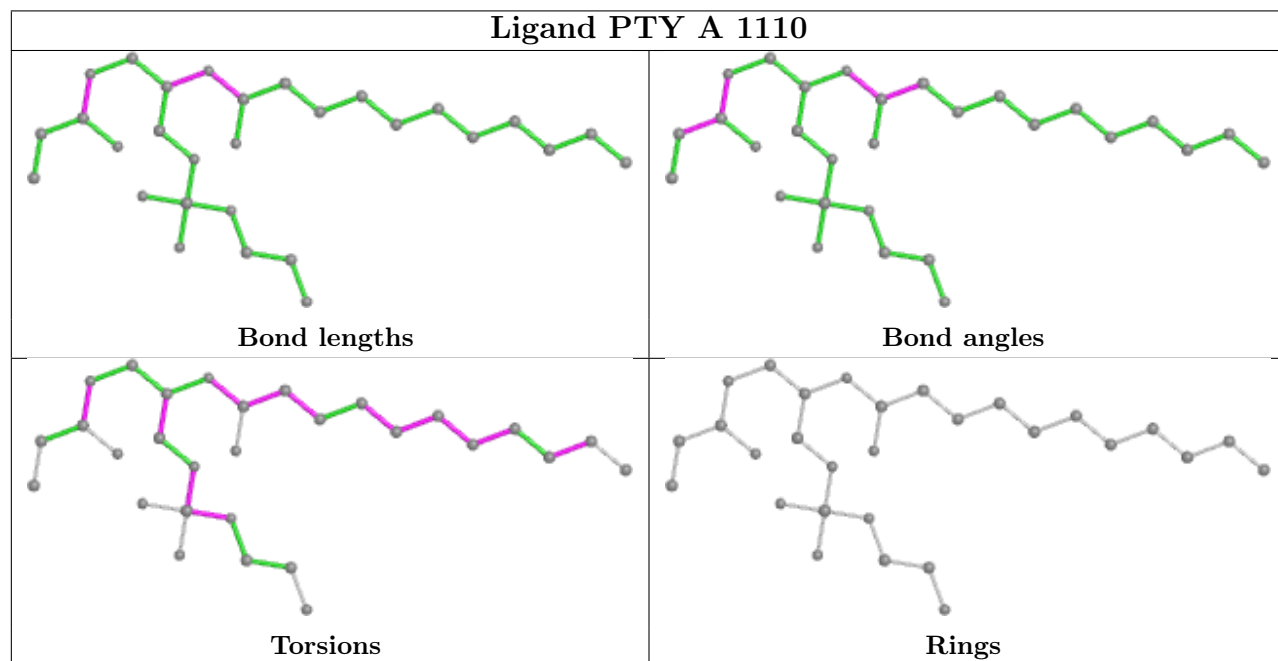
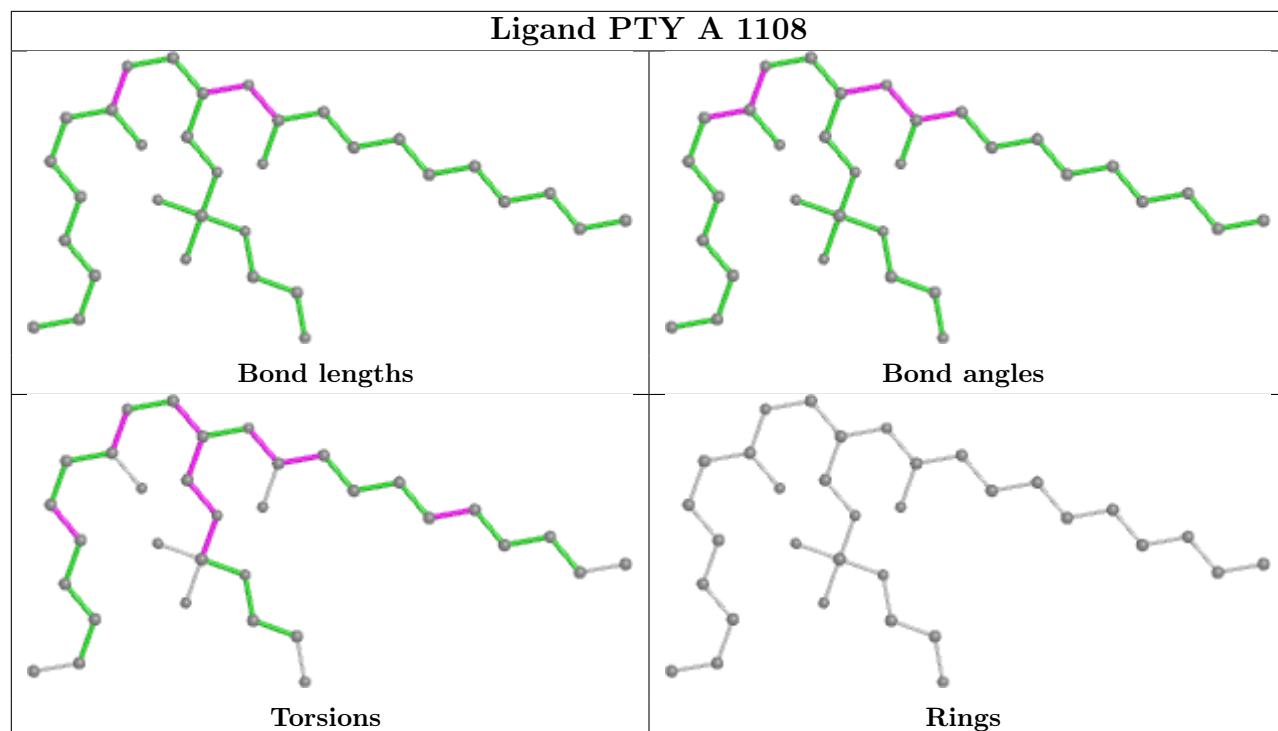


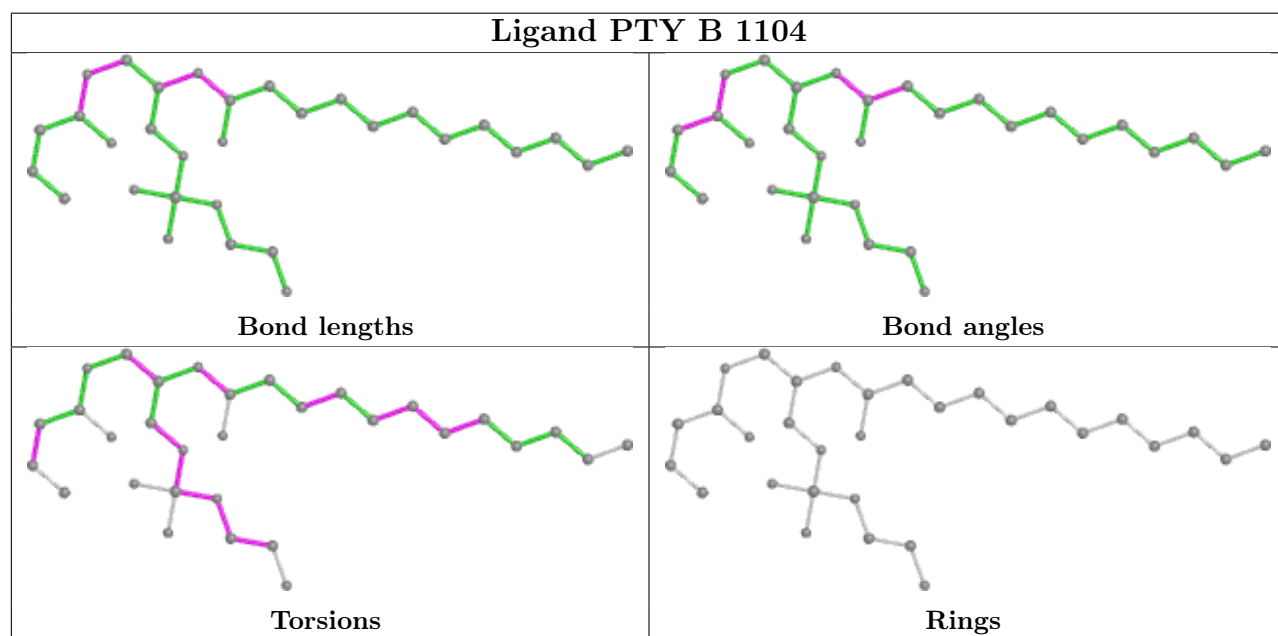
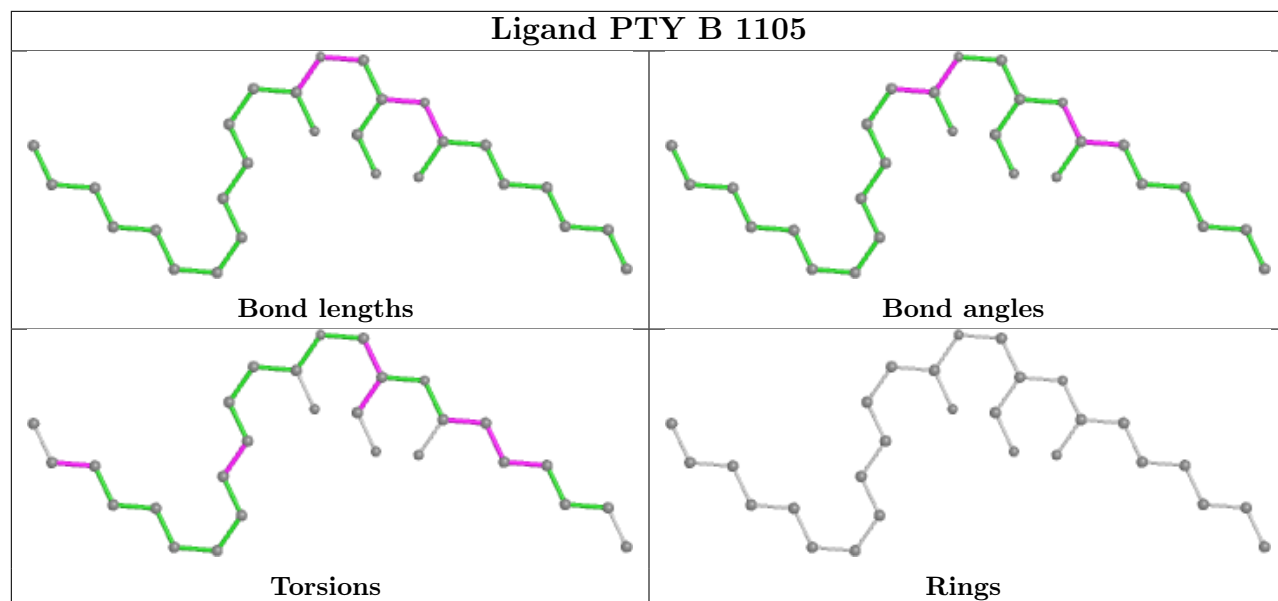


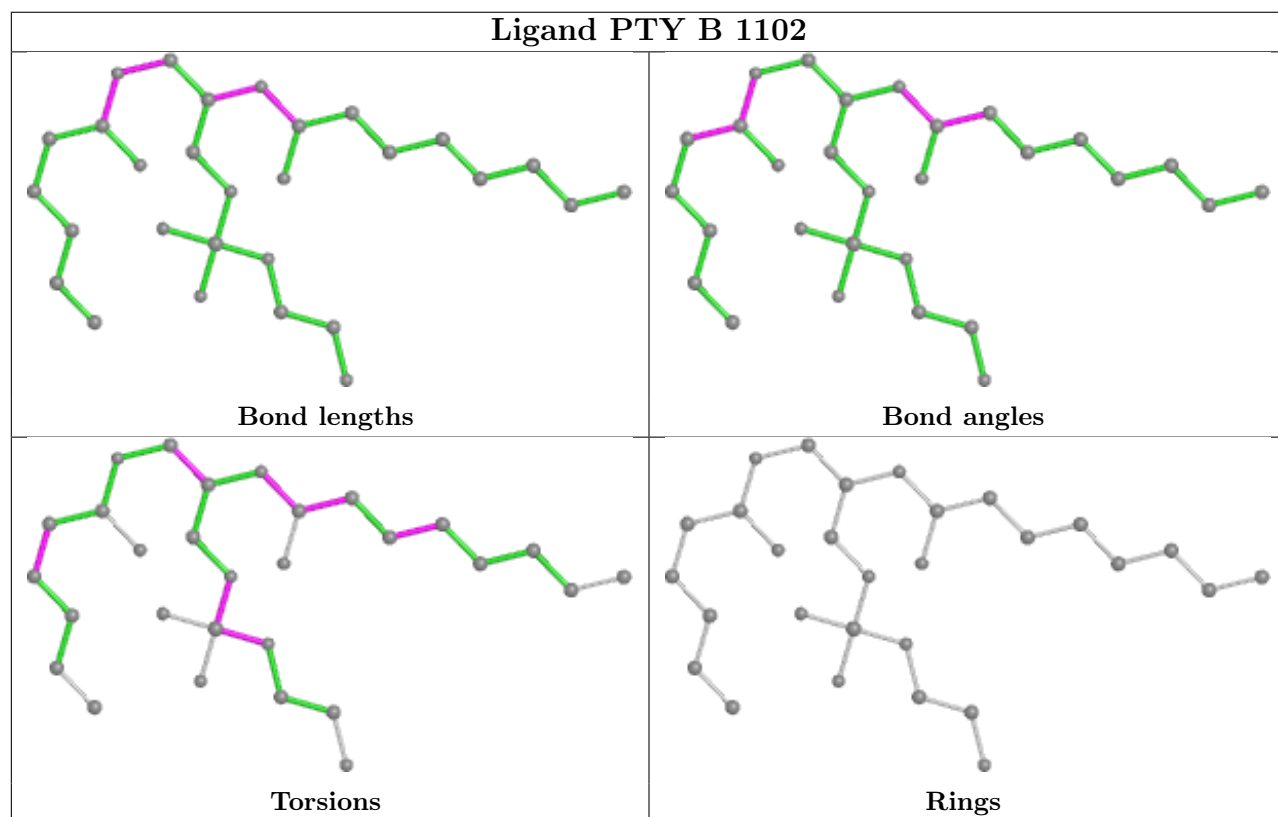
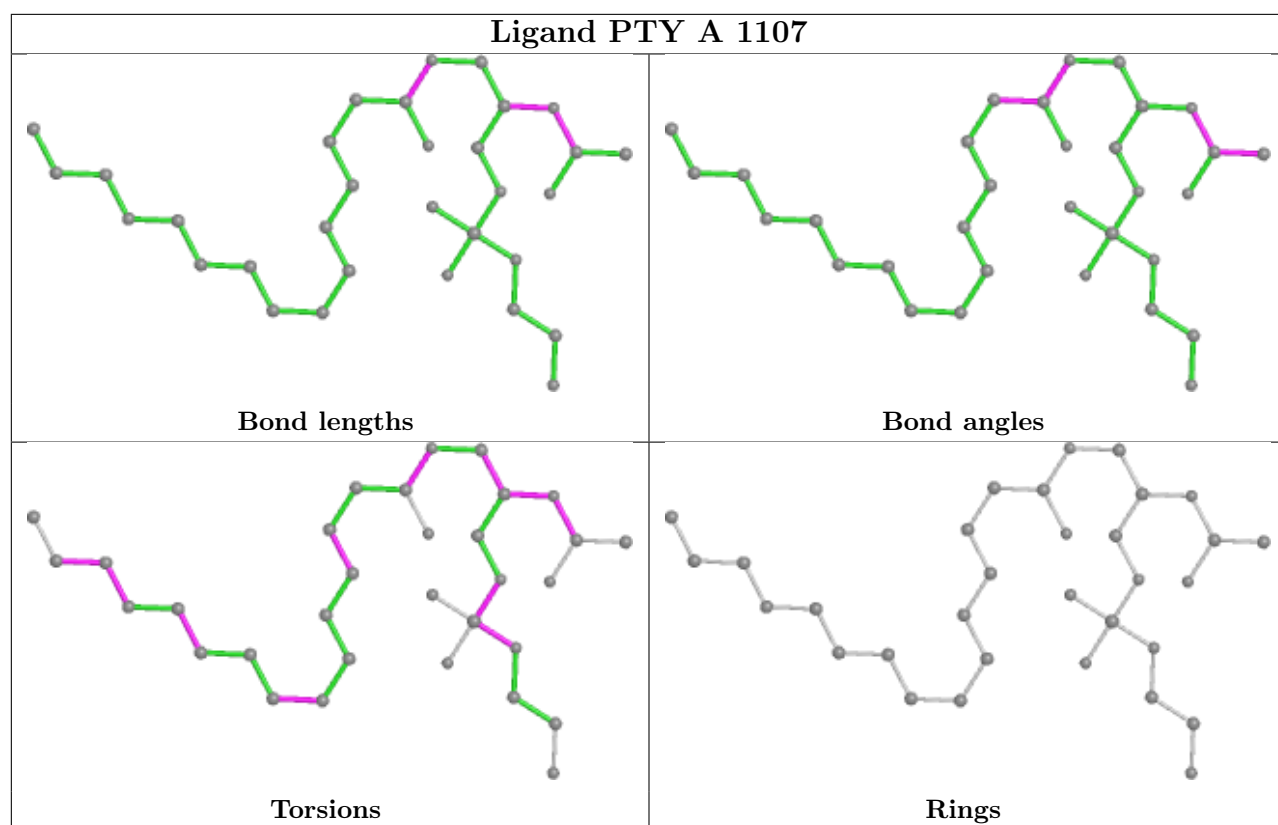


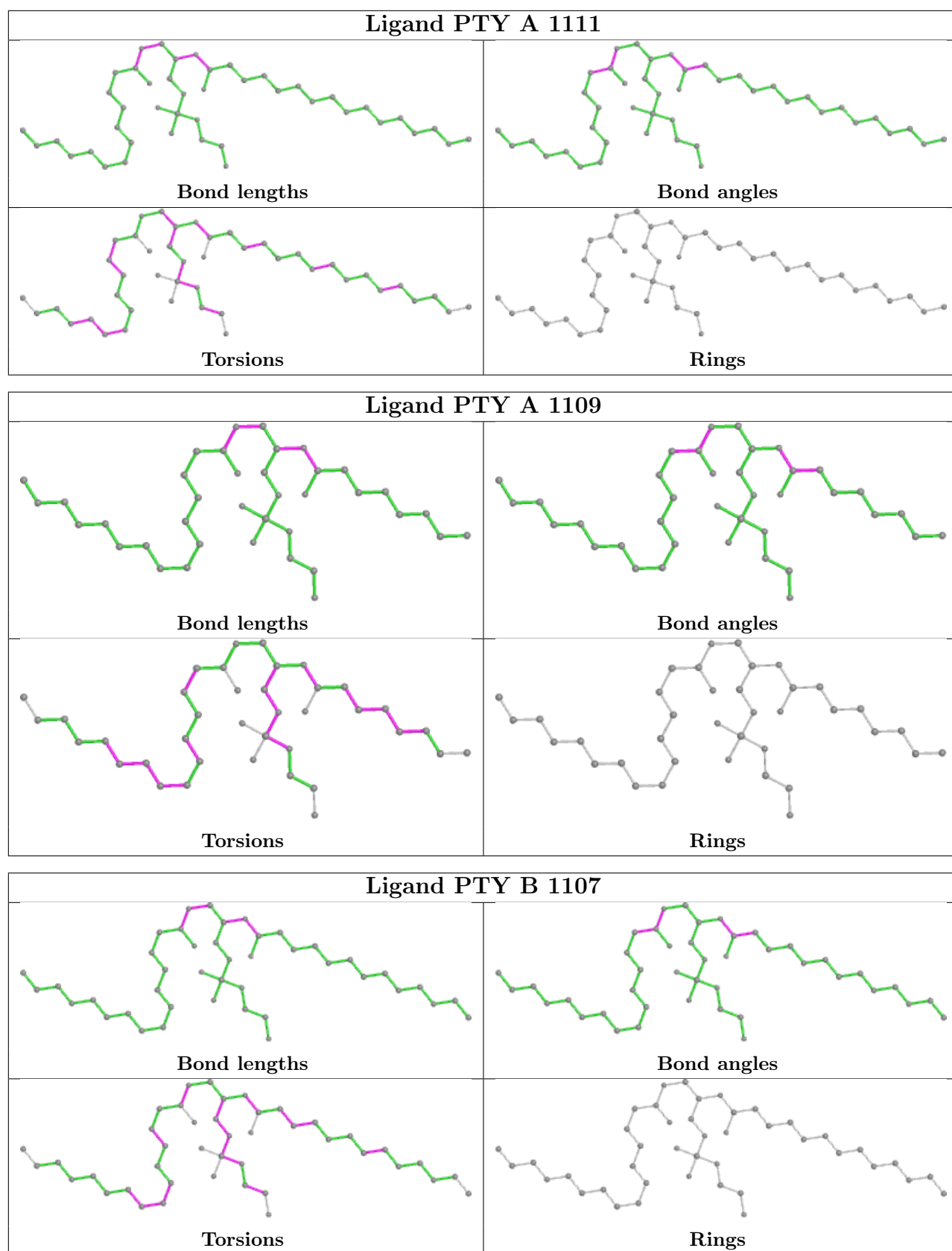


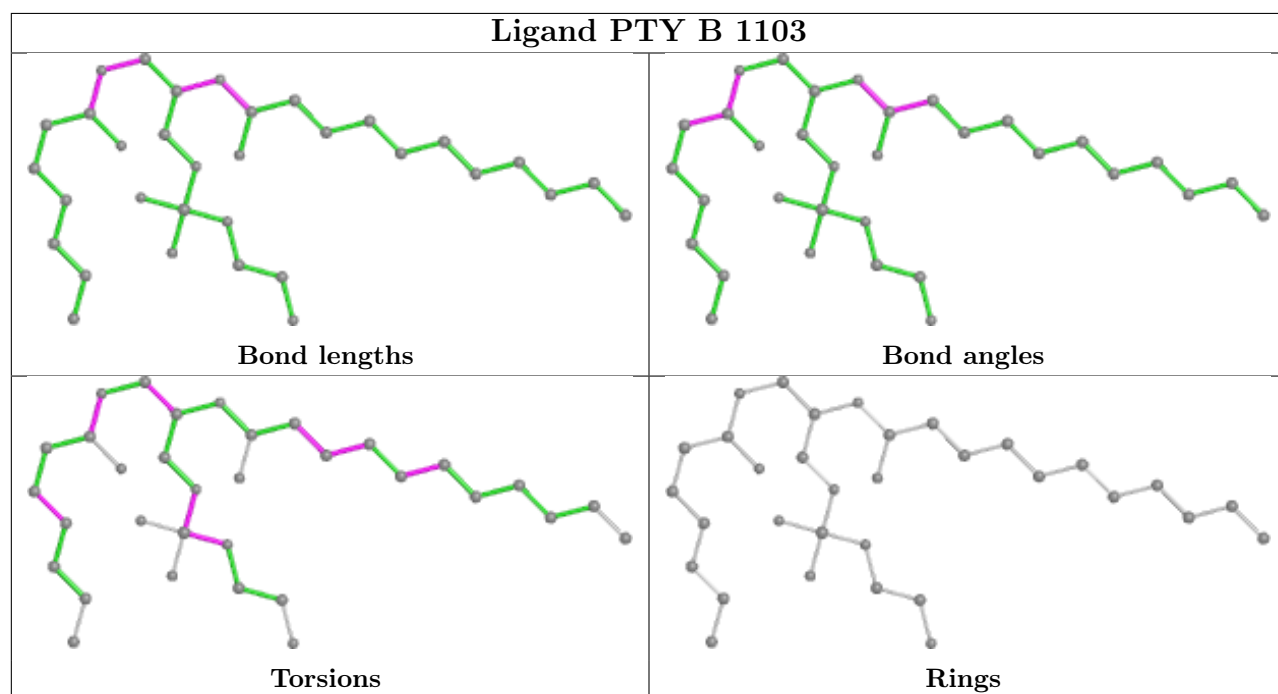
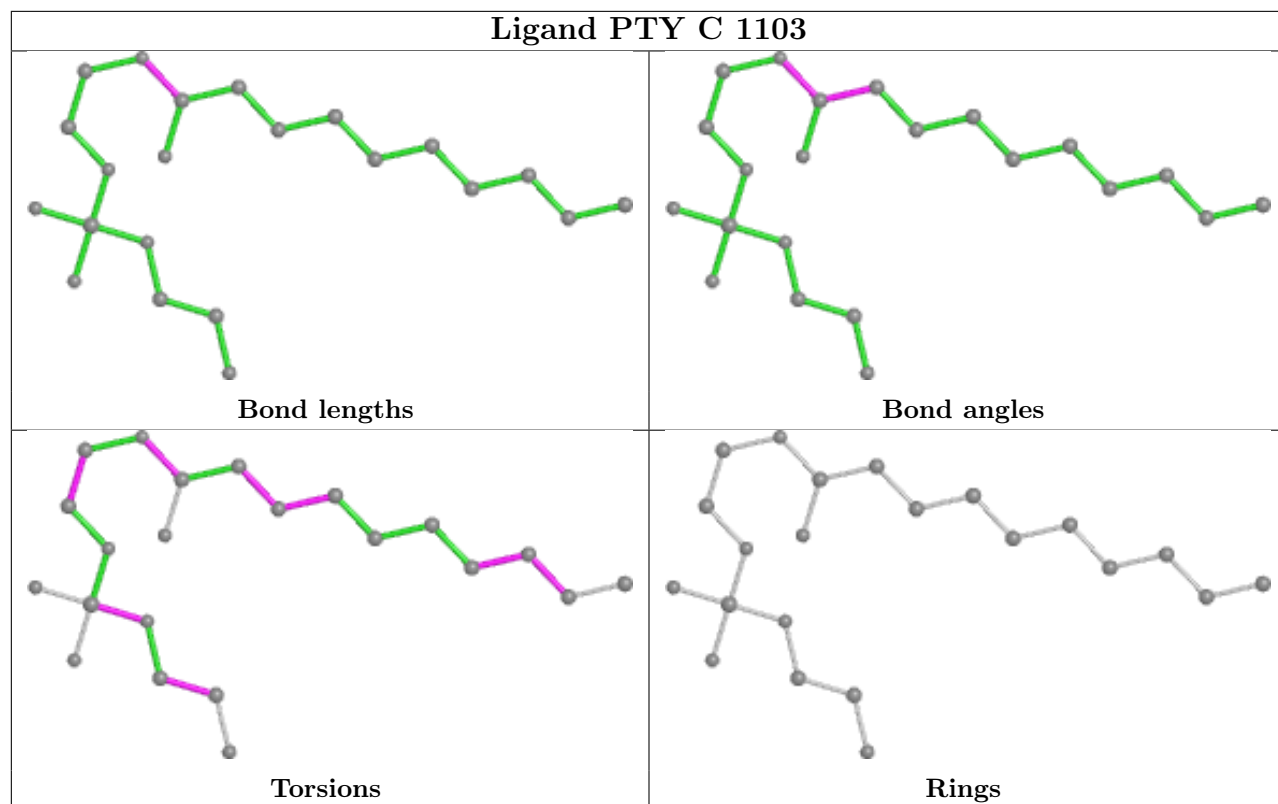


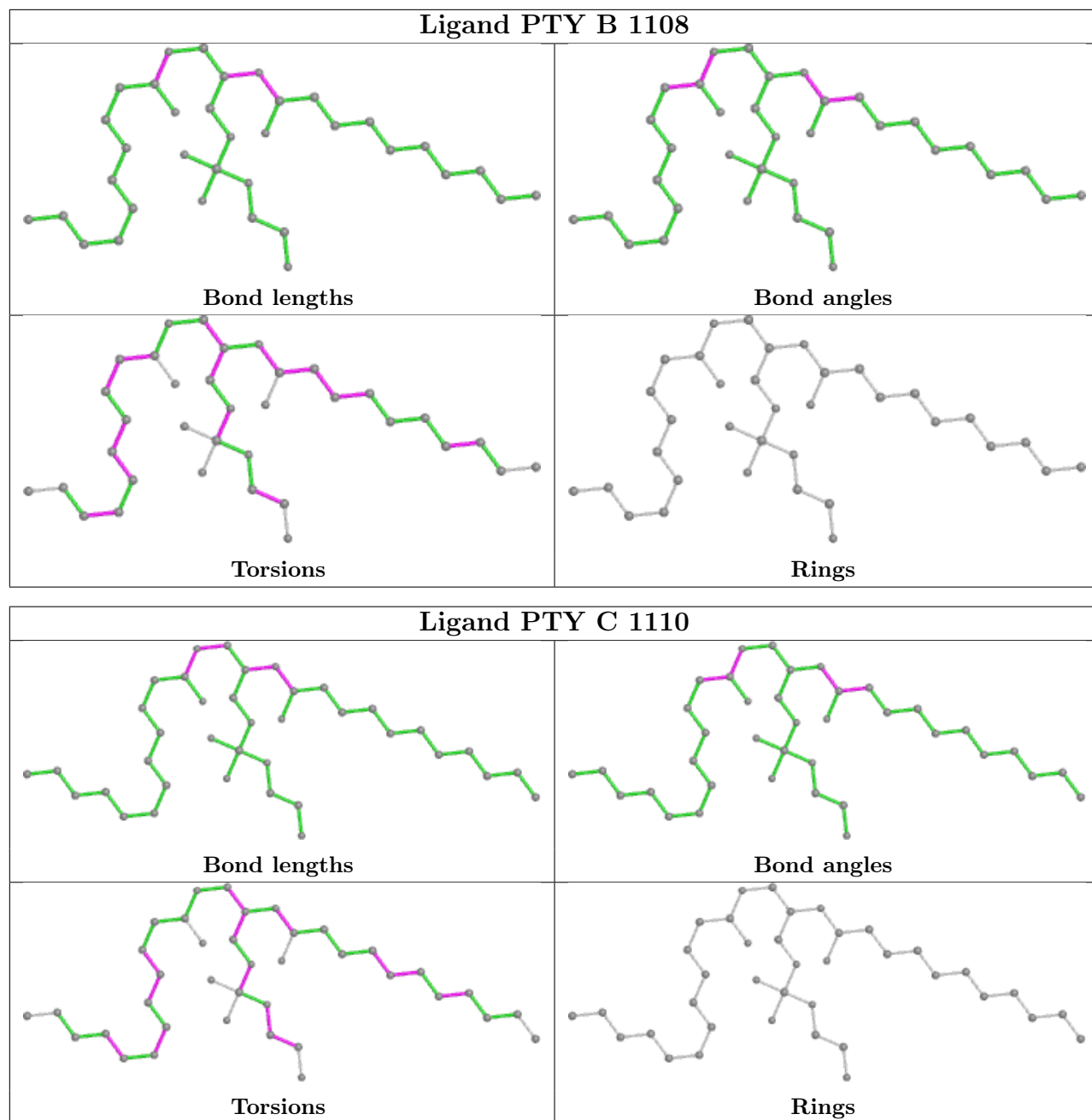


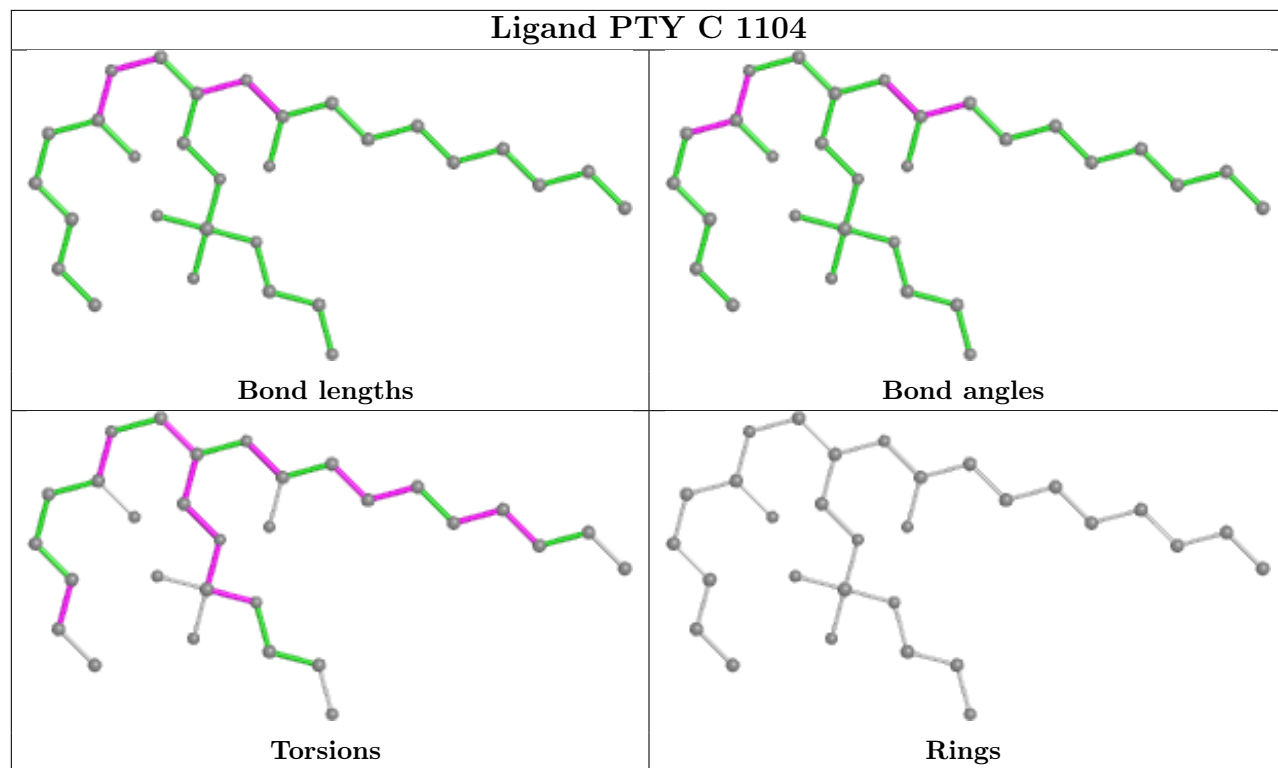
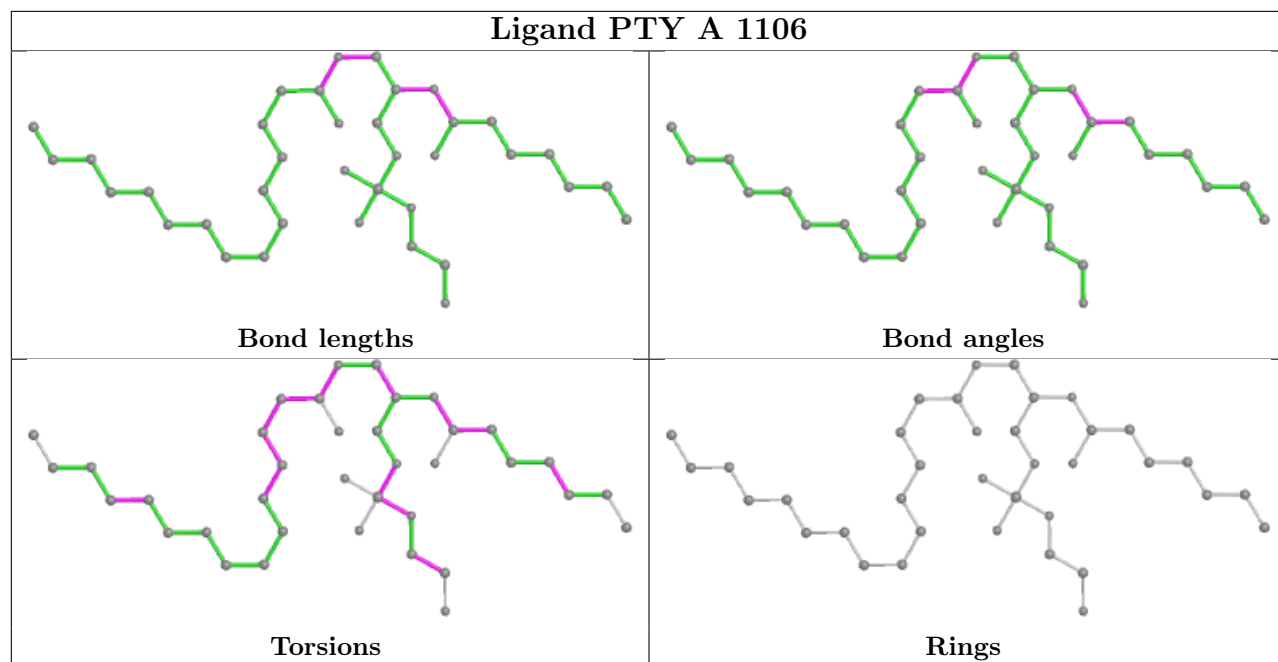


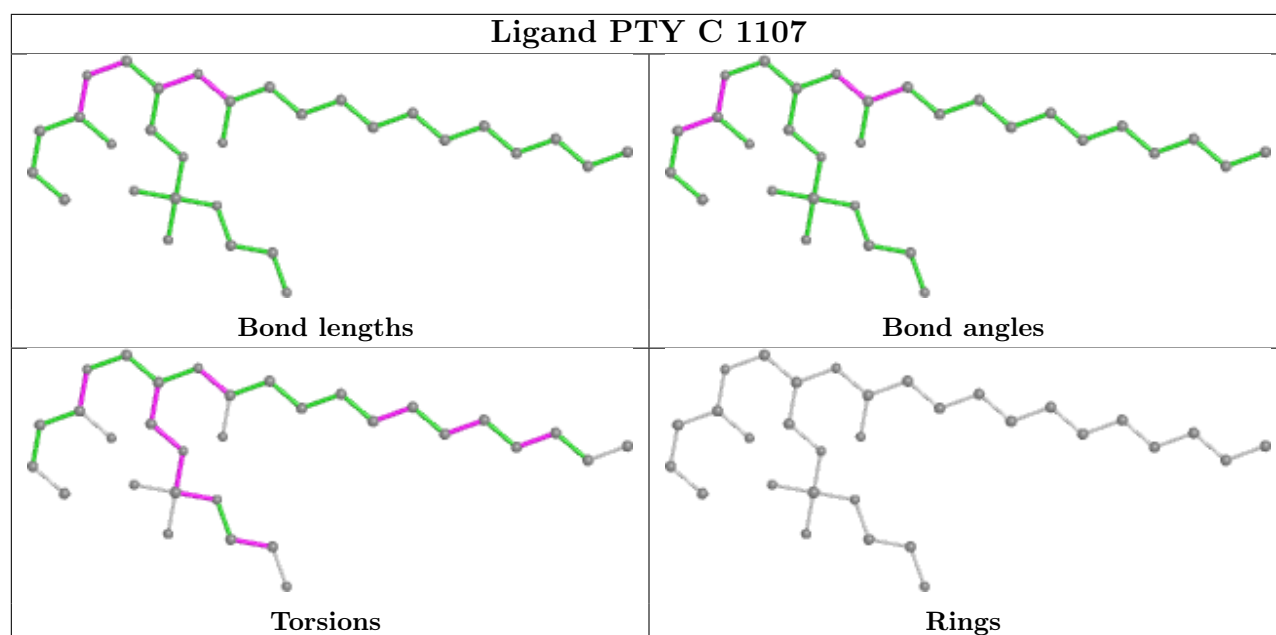












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

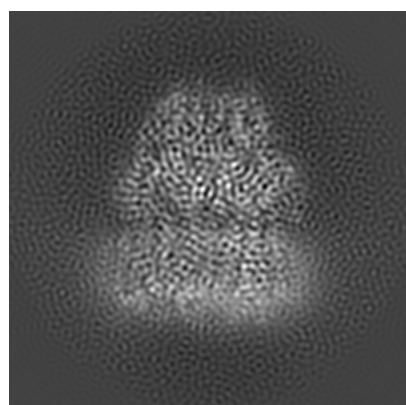
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-7074. These allow visual inspection of the internal detail of the map and identification of artifacts.

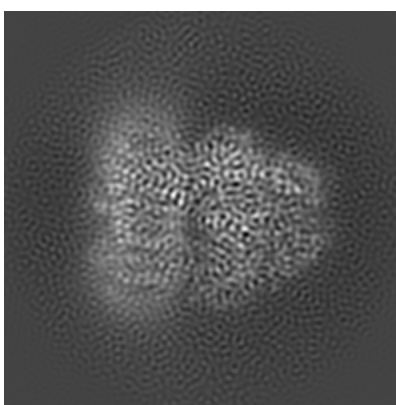
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

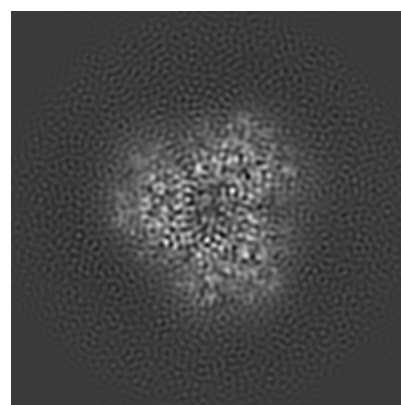
6.1.1 Primary map



X



Y

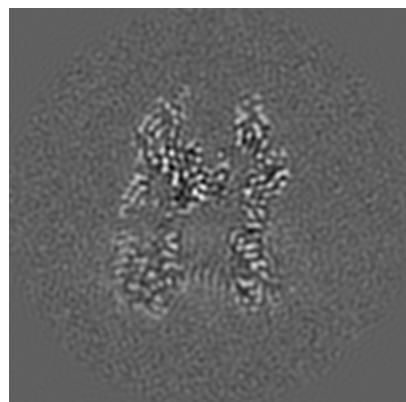


Z

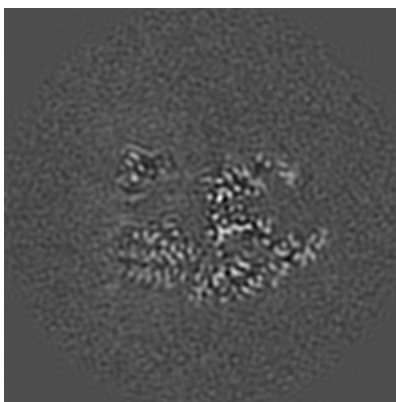
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

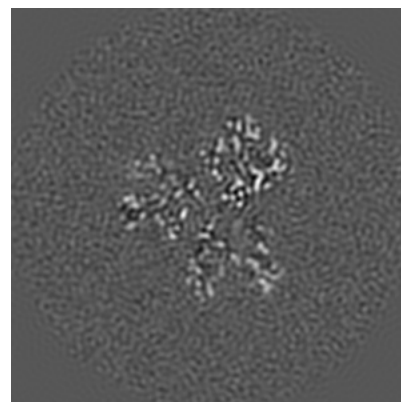
6.2.1 Primary map



X Index: 96



Y Index: 96

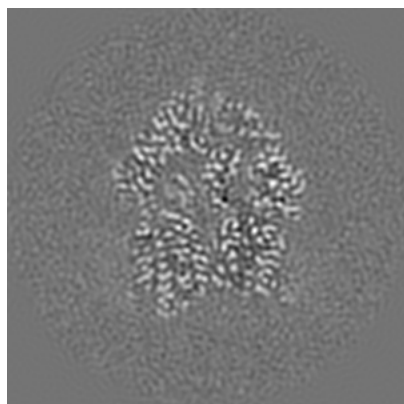


Z Index: 96

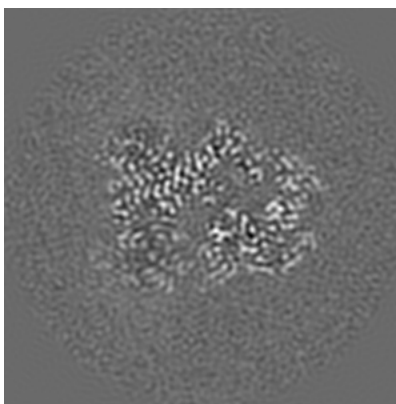
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

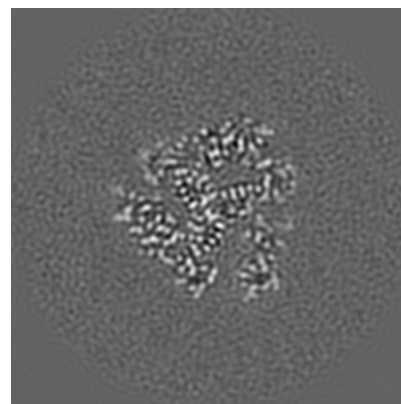
6.3.1 Primary map



X Index: 113



Y Index: 110

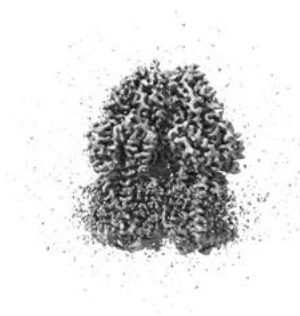


Z Index: 110

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

6.4 Orthogonal surface views [i](#)

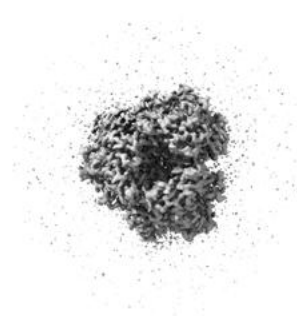
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.07. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

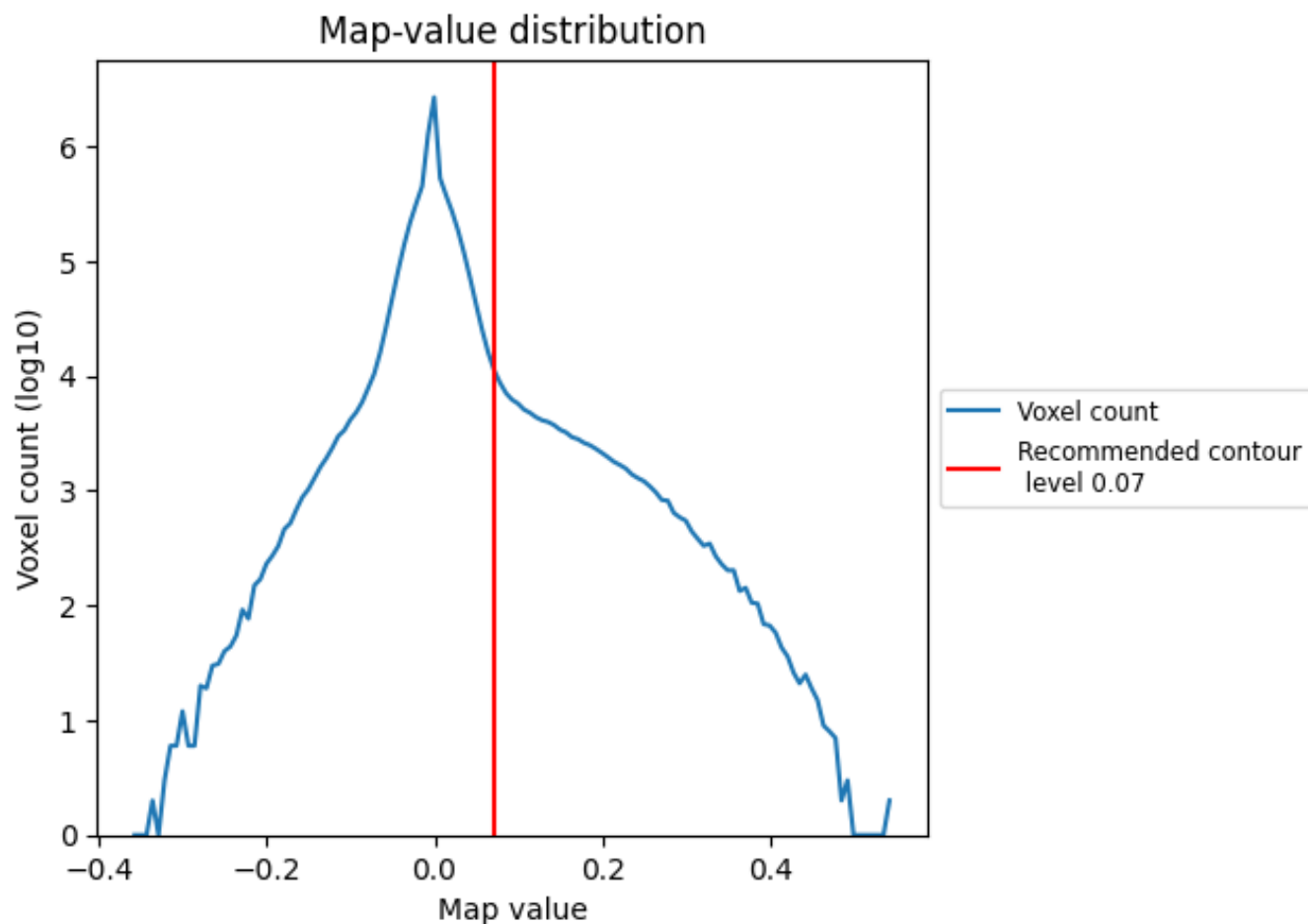
6.5 Mask visualisation

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

7 Map analysis [i](#)

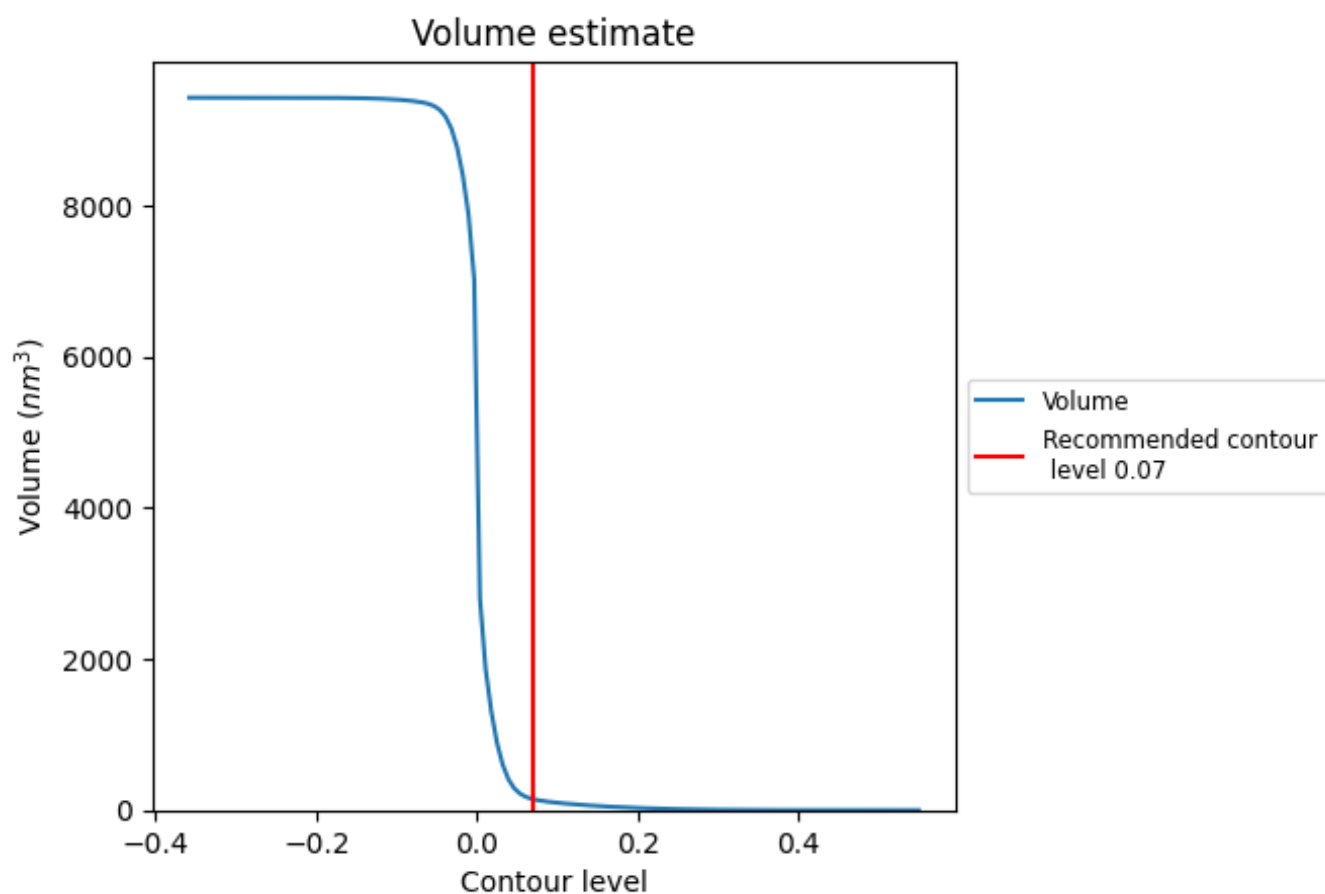
This section contains the results of statistical analysis of the map.

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.

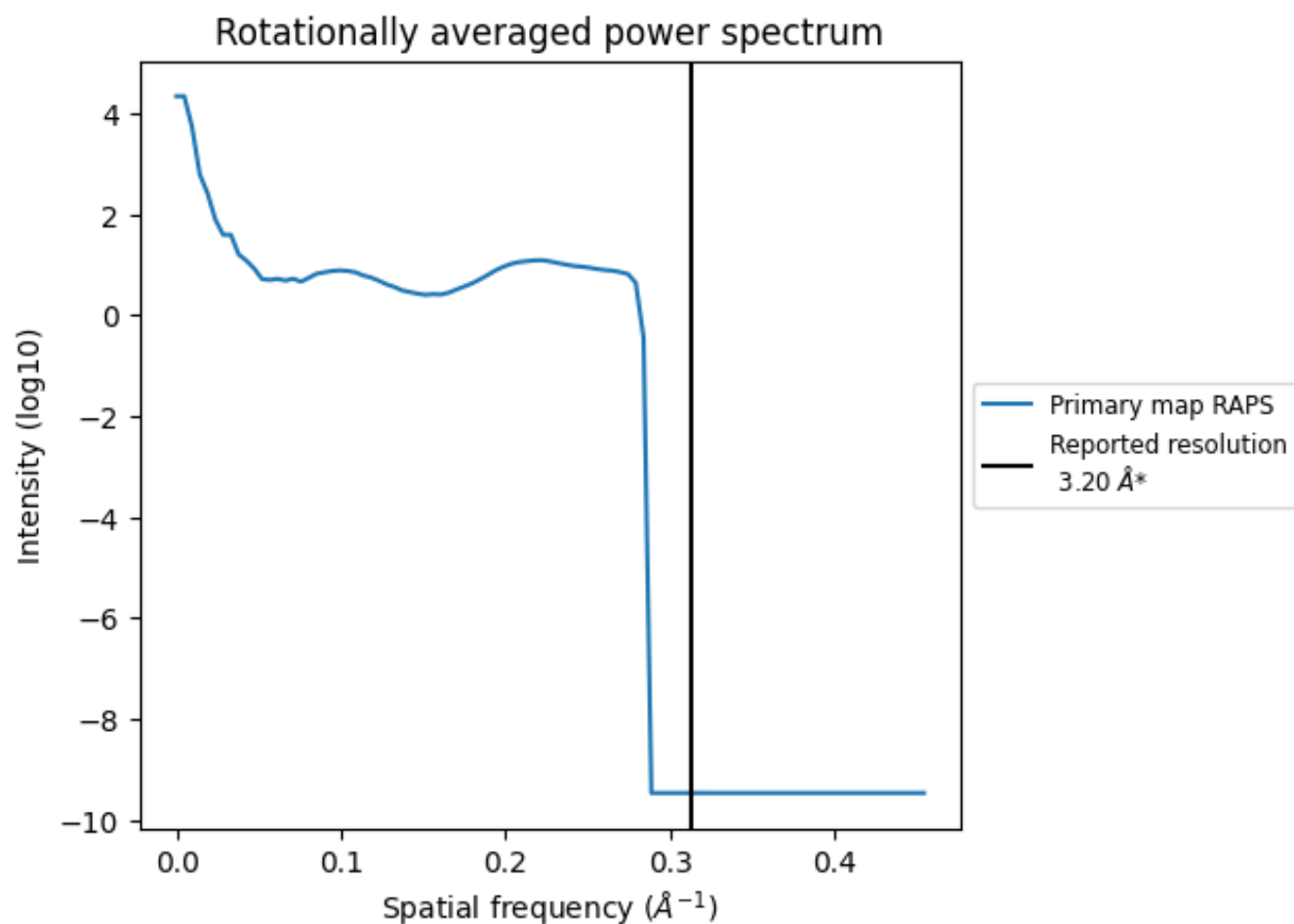
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 146 nm^3 ; this corresponds to an approximate mass of 132 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 0.312 Å⁻¹

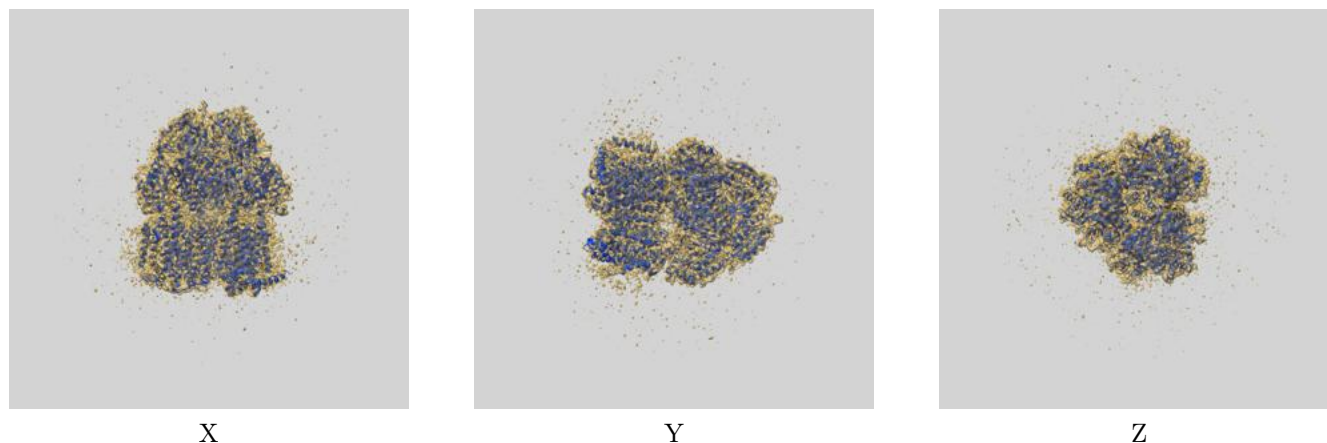
8 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

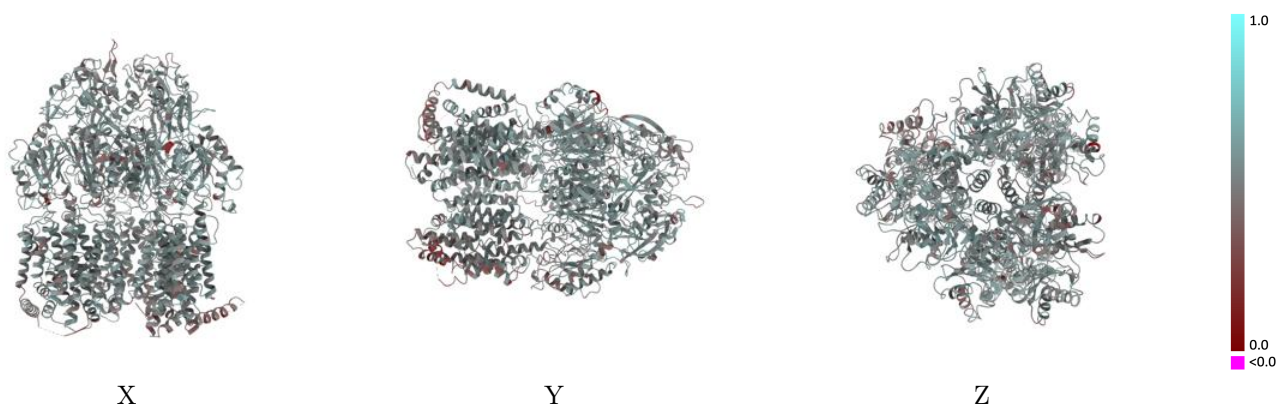
This section contains information regarding the fit between EMDB map EMD-7074 and PDB model 6BAJ. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



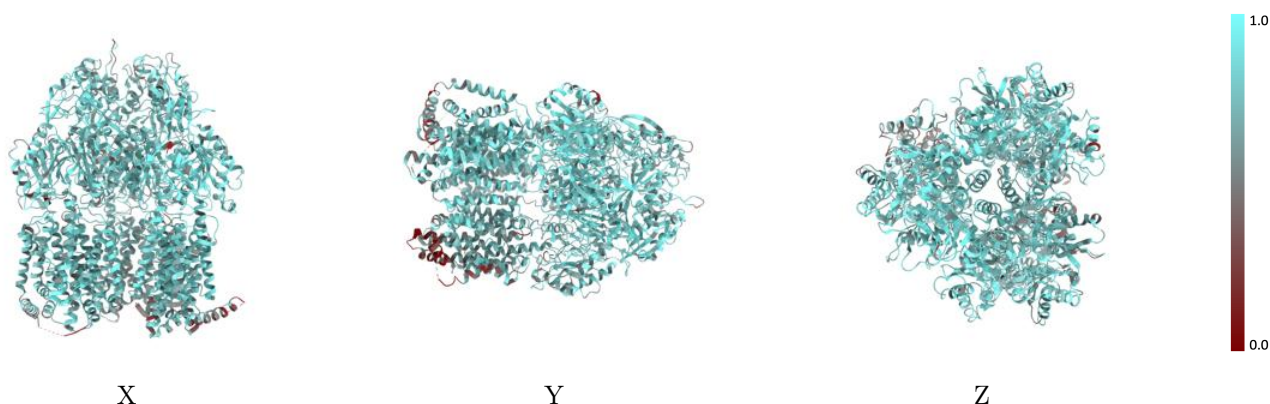
The images above show the 3D surface view of the map at the recommended contour level 0.07 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



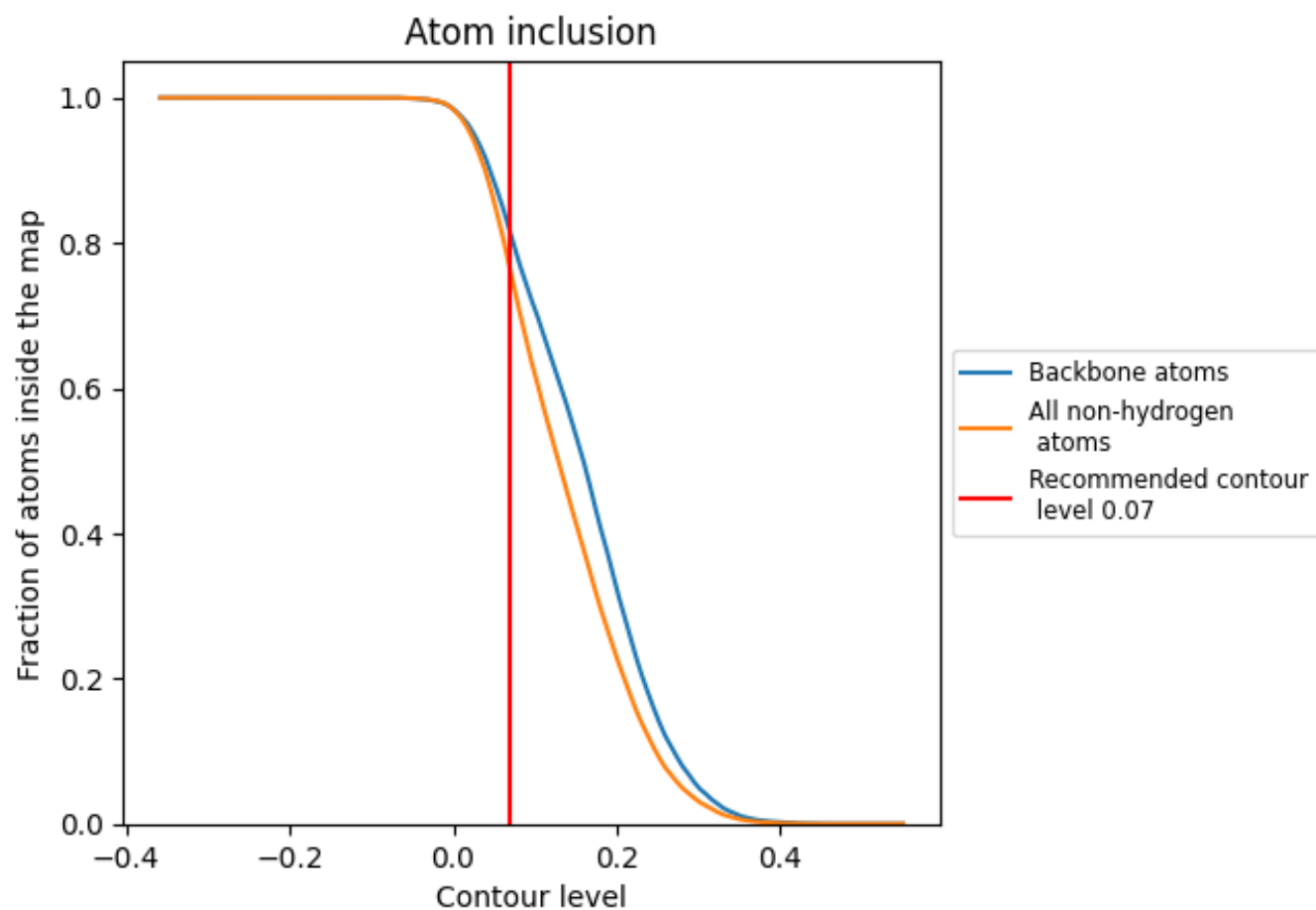
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.07).

9.4 Atom inclusion [i](#)



At the recommended contour level, 81% of all backbone atoms, 76% 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 (0.07) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.7615	<div></div> 0.5130
A	<div></div> 0.7328	<div></div> 0.5030
B	<div></div> 0.7621	<div></div> 0.5140
C	<div></div> 0.7966	<div></div> 0.5220

