



## wwPDB EM Validation Summary Report ⓘ

Jun 8, 2026 – 01:34 pm BST

PDB ID : 9RGD / pdb\_00009rgd  
EMDB ID : EMD-53948  
Title : CryoEM structure of human alpha1beta3gamma2L GABA(A)R in CL47a  
Authors : Kasaragod, V.B.; Aricescu, A.R.  
Deposited on : 2025-06-06  
Resolution : 2.00 Å(reported)  
Based on initial model : 9EQG

This is a wwPDB EM Validation Summary 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:

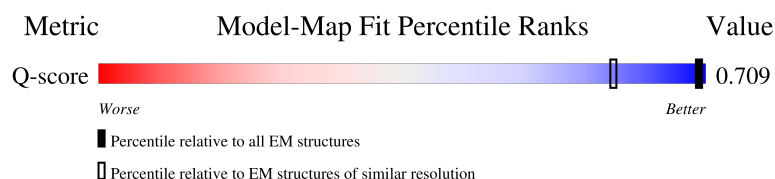
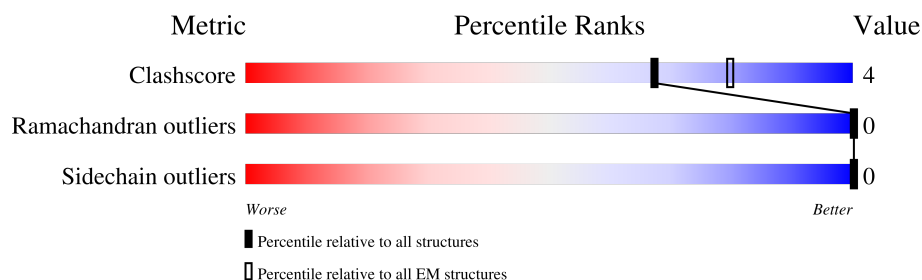
EMDB validation analysis : 0.0.1.dev132  
Mogul : 1.8.4, CSD as541be (2020)  
MolProbity : 4-5-2 with Phenix2.0  
Buster-report : wwPDB partial adaption of 1.1.7 (2018)  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
EM percentile statistics : 202505.v01 (Using data in the EMD 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 2.00 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.




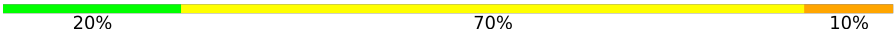



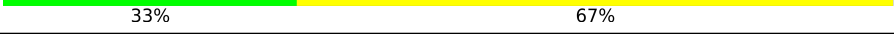

Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	1659 ( 1.50 - 2.50 )

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	409	 78% 8% 14%
1	D	409	 81% 5% 14%
2	B	441	 72% 6% 22%
2	E	441	 72% 6% 22%

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Mol	Chain	Length	Quality of chain
3	C	415	 74%6%20%
4	F	10	 20%70%10%
5	G	6	 50%50%
5	J	6	 83%17%
5	K	6	 50%33%17%
6	H	3	 33%67%
6	L	3	 67%33%
7	I	2	 100%

## 2 Entry composition [i](#)

There are 19 unique types of molecules in this entry. The entry contains 16242 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 Gamma-aminobutyric acid receptor subunit alpha-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	353	Total	C	N	O	S	18	0
			2955	1925	492	521	17		
1	D	353	Total	C	N	O	S	5	0
			2894	1875	488	514	17		

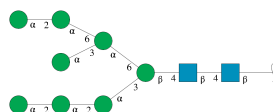
- Molecule 2 is a protein called Gamma-aminobutyric acid receptor subunit beta-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	344	Total	C	N	O	S	12	0
			2900	1911	473	500	16		
2	E	342	Total	C	N	O	S	12	0
			2897	1907	477	496	17		

- Molecule 3 is a protein called Gamma-aminobutyric acid receptor subunit gamma-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	334	Total	C	N	O	S	9	0
			2800	1833	463	489	15		

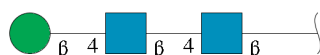
- Molecule 4 is an oligosaccharide called alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-3)-[alpha-D-mannopyranose-(1-2)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				AltConf	Trace
4	F	10	Total	C	N	O	0	0
			116	64	2	50		

- 

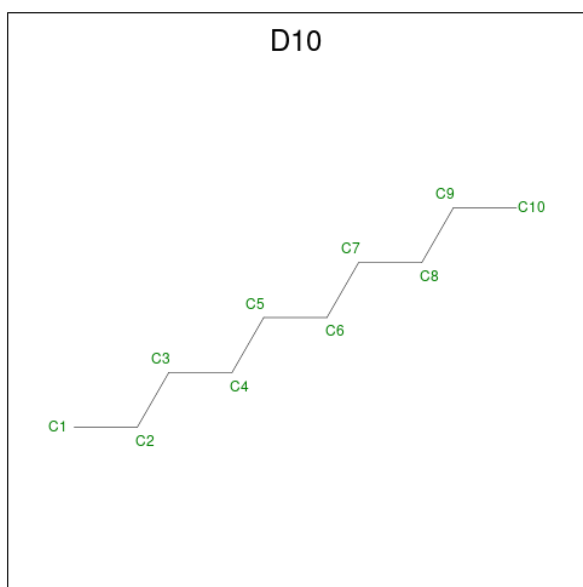
- Molecule 6 is an oligosaccharide called beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



- Molecule 7 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.

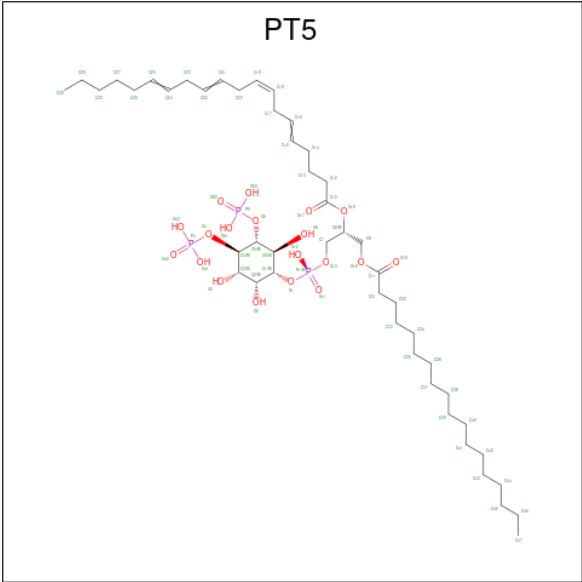


- Molecule 8 is DECANE (CCD ID: D10) (formula:  $\text{C}_{10}\text{H}_{22}$ ).



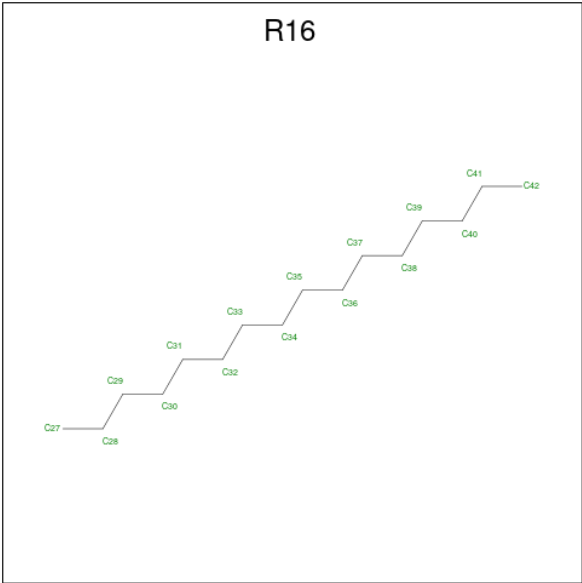
Mol	Chain	Residues	Atoms	AltConf
8	A	1	Total C 10 10	0
8	A	1	Total C 10 10	0
8	B	1	Total C 10 10	0
8	B	1	Total C 10 10	0
8	B	1	Total C 10 10	0
8	D	1	Total C 10 10	0
8	D	1	Total C 10 10	0
8	E	1	Total C 10 10	0
8	E	1	Total C 10 10	0
8	E	1	Total C 10 10	0

- Molecule 9 is [(2R)-1-octadecanoyloxy-3-[oxidanyl-[(1R,2R,3S,4R,5R,6S)-2,3,6-tris(oxidanyl)-4,5-diphosphonooxy-cyclohexyl]oxy-phosphoryl]oxy-propan-2-yl] (8Z)-icosa-5,8,11,14-tetraenoate (CCD ID: PT5) (formula: C<sub>47</sub>H<sub>85</sub>O<sub>19</sub>P<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
9	A	1	Total	C	O	P	0
			69	47	19	3	
9	D	1	Total	C	O	P	0
			69	47	19	3	

- Molecule 10 is HEXADECANE (CCD ID: R16) (formula: C<sub>16</sub>H<sub>34</sub>).



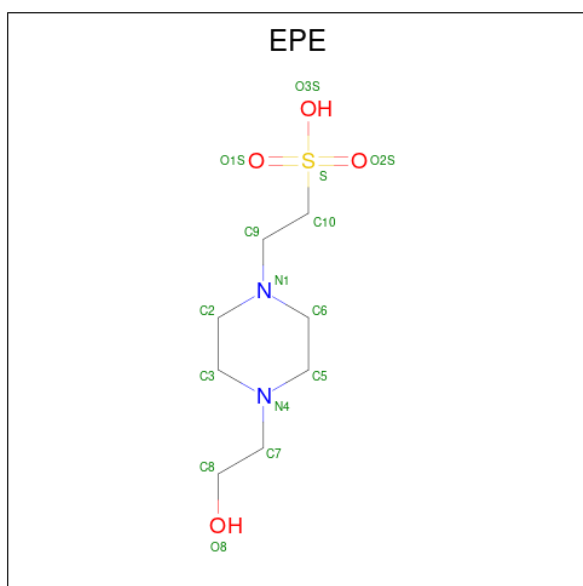
Mol	Chain	Residues	Atoms		AltConf
10	A	1	Total	C	0
			16	16	
10	B	1	Total	C	0
			16	16	

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Mol	Chain	Residues	Atoms		AltConf
10	D	1	Total	C	0
			16	16	
10	D	1	Total	C	0
			16	16	
10	E	1	Total	C	0
			16	16	

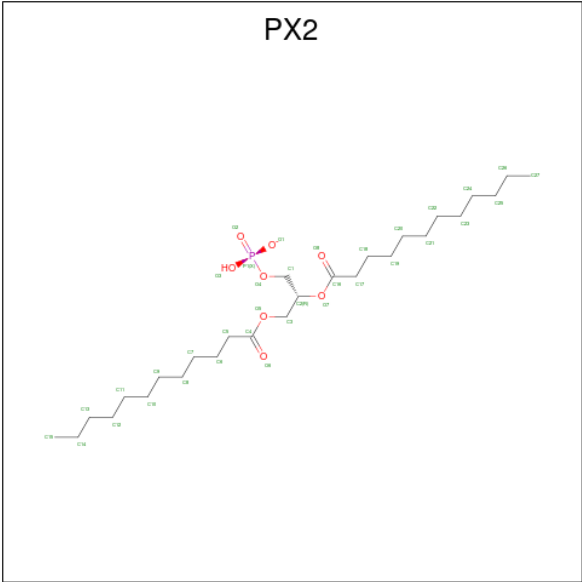
- Molecule 11 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (CCD ID: EPE) (formula:  $C_8H_{18}N_2O_4S$ ).



Mol	Chain	Residues	Atoms					AltConf
11	A	1	Total	C	N	O	S	0
			15	8	2	4	1	

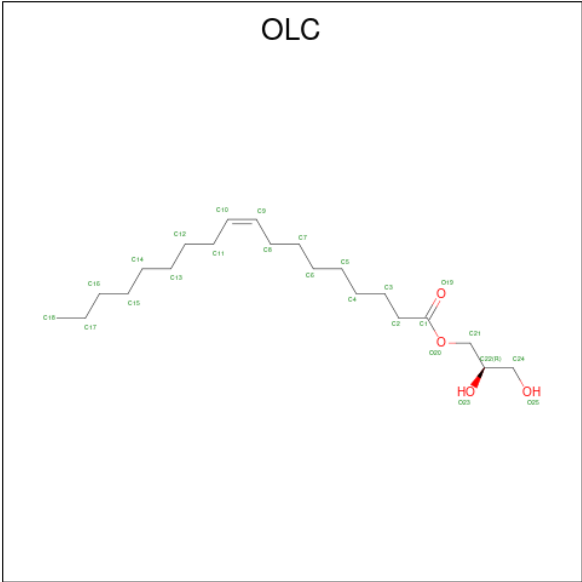
- Molecule 12 is 1,2-DILAUROYL-SN-GLYCERO-3-PHOSPHATE (CCD ID: PX2) (formula:  $C_{27}H_{52}O_8P$ ).





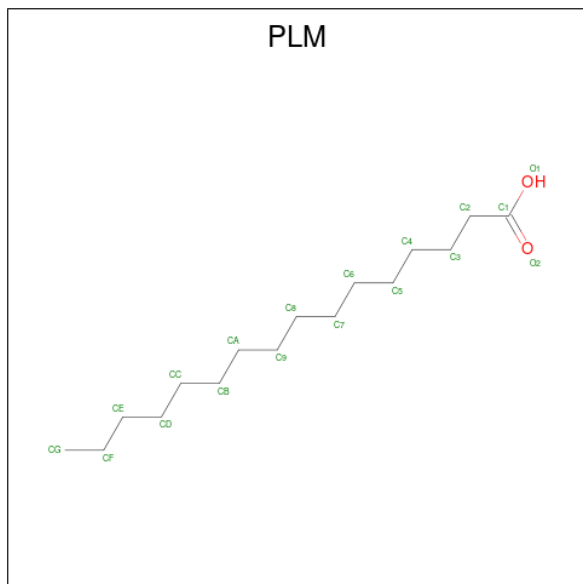
Mol	Chain	Residues	Atoms				AltConf
12	A	1	Total	C	O	P	0
			36	27	8	1	
12	A	1	Total	C	O	P	0
			36	27	8	1	
12	D	1	Total	C	O	P	0
			36	27	8	1	

- Molecule 13 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (CCD ID: OLC) (formula: C<sub>21</sub>H<sub>40</sub>O<sub>4</sub>).



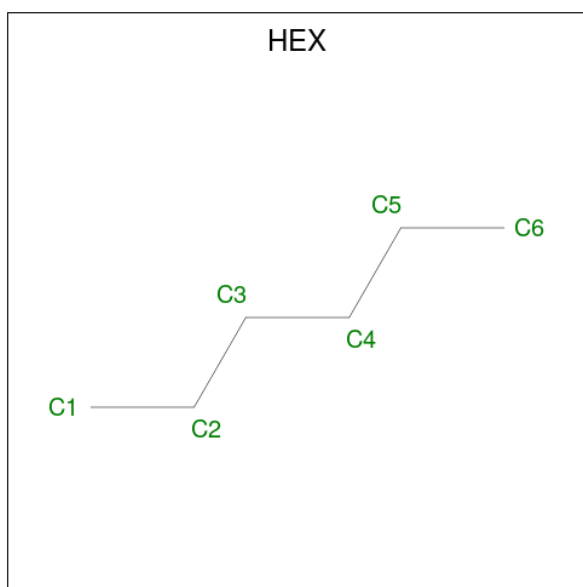
Mol	Chain	Residues	Atoms			AltConf
13	A	1	Total	C	O	0
			25	21	4	
13	B	1	Total	C	O	0
			25	21	4	
13	E	1	Total	C	O	0
			25	21	4	

- Molecule 14 is PALMITIC ACID (CCD ID: PLM) (formula:  $C_{16}H_{32}O_2$ ).



Mol	Chain	Residues	Atoms			AltConf
14	A	1	Total	C	O	0
			18	16	2	
14	C	1	Total	C	O	0
			18	16	2	
14	C	1	Total	C	O	0
			18	16	2	

- Molecule 15 is HEXANE (CCD ID: HEX) (formula:  $C_6H_{14}$ ).



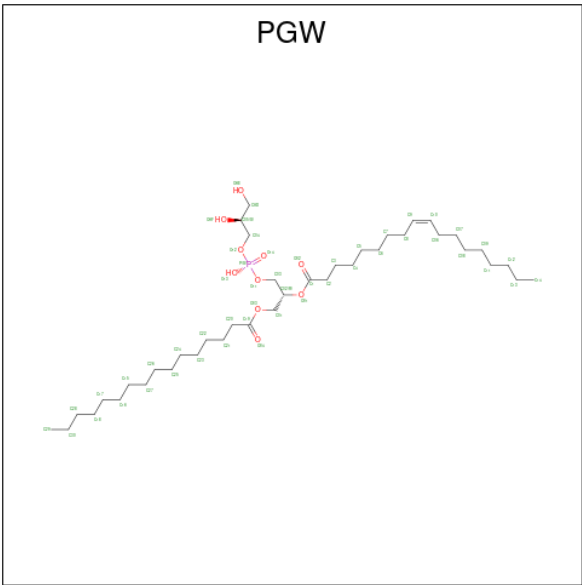
Mol	Chain	Residues	Atoms	AltConf
15	A	1	Total C 6 6	0
15	B	1	Total C 6 6	0
15	B	1	Total C 6 6	0
15	C	1	Total C 6 6	0
15	C	1	Total C 6 6	0
15	C	1	Total C 6 6	0
15	C	1	Total C 6 6	0
15	D	1	Total C 6 6	0
15	E	1	Total C 6 6	0
15	E	1	Total C 6 6	0
15	E	1	Total C 6 6	0

- Molecule 16 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula:  $C_8H_{15}NO_6$ ).



Mol	Chain	Residues	Atoms				AltConf
16	C	1	Total	C	N	O	0
			14	8	1	5	
16	D	1	Total	C	N	O	0
			14	8	1	5	

- Molecule 17 is (1R)-2-{[(S)-{[(2S)-2,3-dihydroxypropyl]oxy}(hydroxy)phosphoryl]oxy}-1-[(hexadecanoyloxy)methyl]ethyl (9Z)-octadec-9-enoate (CCD ID: PGW) (formula: C<sub>40</sub>H<sub>77</sub>O<sub>10</sub>P).



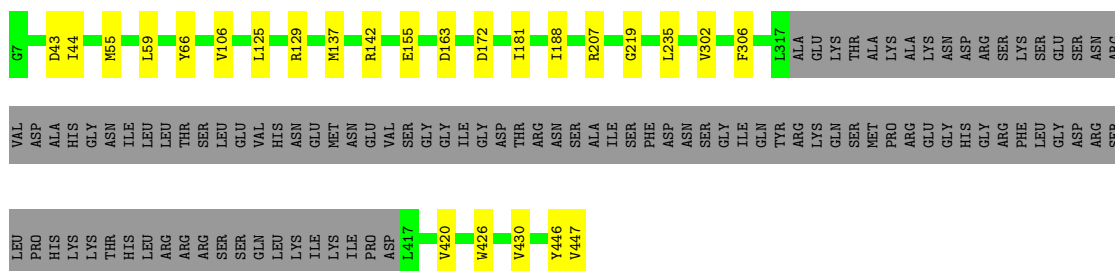
- Molecule 18 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		AltConf
18	C	1	Total 1	Cl 1	0

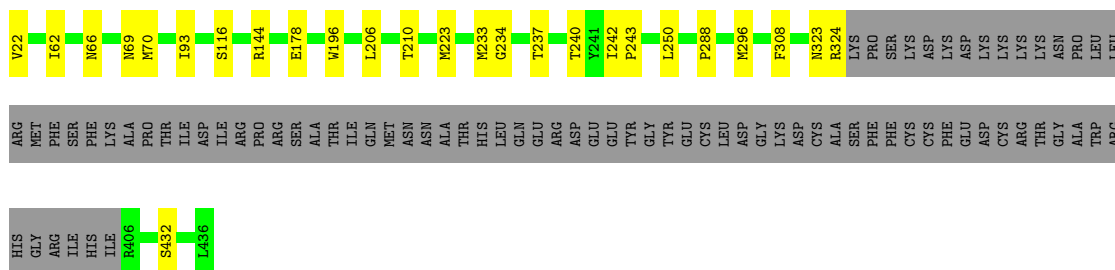
- Molecule 19 is water.

Mol	Chain	Residues	Atoms		AltConf
19	A	131	Total 131	O 131	0
19	B	132	Total 132	O 132	0
19	C	133	Total 133	O 133	0
19	D	132	Total 132	O 132	0
19	E	114	Total 114	O 114	0





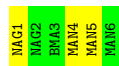
- Molecule 3: Gamma-aminobutyric acid receptor subunit gamma-2



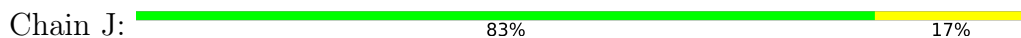
- Molecule 4:  $\alpha$ -D-mannopyranose-(1-2)- $\alpha$ -D-mannopyranose-(1-2)- $\alpha$ -D-mannopyranose-(1-3)-[ $\alpha$ -D-mannopyranose-(1-2)- $\alpha$ -D-mannopyranose-(1-6)-[ $\alpha$ -D-mannopyranose-(1-3)] $\alpha$ -D-mannopyranose-(1-6)] $\beta$ -D-mannopyranose-(1-4)-2-acetamido-2-deoxy- $\beta$ -D-glucopyranose-(1-4)-2-acetamido-2-deoxy- $\beta$ -D-glucopyranose



- Molecule 5:  $\alpha$ -D-mannopyranose-(1-3)- $\alpha$ -D-mannopyranose-(1-6)-[ $\alpha$ -D-mannopyranose-(1-3)] $\beta$ -D-mannopyranose-(1-4)-2-acetamido-2-deoxy- $\beta$ -D-glucopyranose-(1-4)-2-acetamido-2-deoxy- $\beta$ -D-glucopyranose

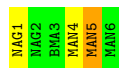


- Molecule 5:  $\alpha$ -D-mannopyranose-(1-3)- $\alpha$ -D-mannopyranose-(1-6)-[ $\alpha$ -D-mannopyranose-(1-3)] $\beta$ -D-mannopyranose-(1-4)-2-acetamido-2-deoxy- $\beta$ -D-glucopyranose-(1-4)-2-acetamido-2-deoxy- $\beta$ -D-glucopyranose



- Molecule 5: alpha-D-mannopyranose-(1-3)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain K:  50% 33% 17%



- Molecule 6: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain H:  33% 67%



- Molecule 6: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain L:  67% 33%



- Molecule 7: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain I:  100%





## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	232597	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	53.2	Depositor
Minimum defocus (nm)	600	Depositor
Maximum defocus (nm)	1600	Depositor
Magnification	165000	Depositor
Image detector	TFS FALCON 4i (4k x 4k)	Depositor
Maximum map value	0.036	Depositor
Minimum map value	-0.012	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.001	Depositor
Recommended contour level	0.0025	Depositor
Map size (Å)	349.91998, 349.91998, 349.91998	wwPDB
Map dimensions	480, 480, 480	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.729, 0.729, 0.729	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: CL, NAG, BMA, HEX, EPE, PT5, D10, OLC, PGW, R16, PLM, MAN, PX2

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	0.19	0/3083	0.30	0/4187
1	D	0.25	0/2983	0.35	0/4048
2	B	0.19	0/3014	0.32	0/4101
2	E	0.19	0/3012	0.31	0/4091
3	C	0.20	0/2902	0.32	0/3947
All	All	0.21	0/14994	0.32	0/20374

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	2955	0	3017	29	0
1	D	2894	0	2904	18	0
2	B	2900	0	2948	23	0
2	E	2897	0	2935	19	0
3	C	2800	0	2833	19	0
4	F	116	0	97	1	0
5	G	72	0	61	0	0
5	J	72	0	61	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	K	72	0	61	1	0
6	H	39	0	34	0	0
6	L	39	0	34	0	0
7	I	28	0	25	1	0
8	A	20	0	44	3	0
8	B	30	0	66	2	0
8	D	20	0	44	0	0
8	E	30	0	66	3	0
9	A	69	0	80	1	0
9	D	69	0	80	5	0
10	A	16	0	34	1	0
10	B	16	0	34	0	0
10	D	32	0	68	1	0
10	E	16	0	34	0	0
11	A	15	0	18	4	0
12	A	72	0	104	5	0
12	D	36	0	52	1	0
13	A	25	0	40	1	0
13	B	25	0	40	2	0
13	E	25	0	40	0	0
14	A	18	0	31	5	0
14	C	36	0	62	2	0
15	A	6	0	14	0	0
15	B	12	0	28	0	0
15	C	24	0	56	1	0
15	D	6	0	14	1	0
15	E	18	0	42	5	0
16	C	14	0	13	0	0
16	D	14	0	13	0	0
17	C	51	0	76	4	0
18	C	1	0	0	0	0
19	A	131	0	0	2	0
19	B	132	0	0	1	0
19	C	133	0	0	3	0
19	D	132	0	0	1	0
19	E	114	0	0	4	0
All	All	16242	0	16203	122	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 4.

The worst 5 of 122 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)
7:I:1:NAG:H61	7:I:2:NAG:H2	1.61	0.82
1:A:229:GLN:OE1	2:B:269[B]:ARG:NH2	2.17	0.77
2:E:163:ASP:OD2	19:E:601:HOH:O	2.05	0.75
3:C:432:SER:HB3	14:C:504:PLM:H62	1.67	0.74
3:C:178:GLU:OE1	19:C:601:HOH:O	2.05	0.73

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	367/409 (90%)	360 (98%)	7 (2%)	0	100	100
1	D	354/409 (87%)	348 (98%)	6 (2%)	0	100	100
2	B	352/441 (80%)	347 (99%)	5 (1%)	0	100	100
2	E	350/441 (79%)	349 (100%)	1 (0%)	0	100	100
3	C	339/415 (82%)	331 (98%)	8 (2%)	0	100	100
All	All	1762/2115 (83%)	1735 (98%)	27 (2%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	333/363 (92%)	333 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	320/363 (88%)	320 (100%)	0	100	100
2	B	322/393 (82%)	322 (100%)	0	100	100
2	E	319/393 (81%)	319 (100%)	0	100	100
3	C	317/380 (83%)	317 (100%)	0	100	100
All	All	1611/1892 (85%)	1611 (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. 5 of 10 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	242	GLN
2	E	90	GLN
2	E	119	HIS
3	C	66	ASN
3	C	69	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 ⓘ

36 monosaccharides 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	$\# Z  > 2$
4	NAG	F	1	4,1	14,14,15	0.82	0	17,19,21	0.85	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	MAN	F	10	4	11,11,12	0.86	1 (9%)	15,15,17	0.94	0
4	NAG	F	2	4	14,14,15	0.80	0	17,19,21	0.80	0
4	BMA	F	3	4	11,11,12	0.91	0	15,15,17	2.50	4 (26%)
4	MAN	F	4	4	11,11,12	0.86	1 (9%)	15,15,17	1.00	1 (6%)
4	MAN	F	5	4	11,11,12	0.90	1 (9%)	15,15,17	1.07	1 (6%)
4	MAN	F	6	4	11,11,12	0.85	1 (9%)	15,15,17	1.16	1 (6%)
4	MAN	F	7	4	11,11,12	0.91	1 (9%)	15,15,17	0.94	1 (6%)
4	MAN	F	8	4	11,11,12	0.85	1 (9%)	15,15,17	1.04	1 (6%)
4	MAN	F	9	4	11,11,12	0.85	1 (9%)	15,15,17	1.04	1 (6%)
5	NAG	G	1	5,2	14,14,15	0.44	0	17,19,21	1.09	3 (17%)
5	NAG	G	2	5	14,14,15	0.43	0	17,19,21	0.54	0
5	BMA	G	3	5	11,11,12	0.38	0	15,15,17	0.73	0
5	MAN	G	4	5	11,11,12	0.35	0	15,15,17	0.76	1 (6%)
5	MAN	G	5	5	11,11,12	0.36	0	15,15,17	0.79	1 (6%)
5	MAN	G	6	5	11,11,12	0.43	0	15,15,17	0.51	0
6	NAG	H	1	6,2	14,14,15	0.80	0	17,19,21	0.83	0
6	NAG	H	2	6	14,14,15	0.74	0	17,19,21	0.95	1 (5%)
6	BMA	H	3	6	11,11,12	0.88	0	15,15,17	1.81	1 (6%)
7	NAG	I	1	7,3	14,14,15	0.41	0	17,19,21	0.97	1 (5%)
7	NAG	I	2	7	14,14,15	0.42	0	17,19,21	0.97	1 (5%)
5	NAG	J	1	5,1	14,14,15	0.41	0	17,19,21	0.76	0
5	NAG	J	2	5	14,14,15	0.40	0	17,19,21	0.62	0
5	BMA	J	3	5	11,11,12	0.42	0	15,15,17	0.60	0
5	MAN	J	4	5	11,11,12	0.34	0	15,15,17	1.02	2 (13%)
5	MAN	J	5	5	11,11,12	0.30	0	15,15,17	0.53	0
5	MAN	J	6	5	11,11,12	0.30	0	15,15,17	0.52	0
5	NAG	K	1	5,2	14,14,15	0.45	0	17,19,21	1.04	2 (11%)
5	NAG	K	2	5	14,14,15	0.43	0	17,19,21	0.60	0
5	BMA	K	3	5	11,11,12	0.52	0	15,15,17	0.51	0
5	MAN	K	4	5	11,11,12	0.33	0	15,15,17	0.58	0
5	MAN	K	5	5	11,11,12	0.29	0	15,15,17	0.85	1 (6%)
5	MAN	K	6	5	11,11,12	0.39	0	15,15,17	0.63	0
6	NAG	L	1	6,2	14,14,15	0.78	0	17,19,21	0.77	0
6	NAG	L	2	6	14,14,15	0.78	0	17,19,21	0.93	0
6	BMA	L	3	6	11,11,12	0.88	0	15,15,17	1.81	2 (13%)

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
4	NAG	F	1	4,1	-	0/6/23/26	0/1/1/1
4	MAN	F	10	4	-	2/2/19/22	0/1/1/1
4	NAG	F	2	4	-	0/6/23/26	0/1/1/1
4	BMA	F	3	4	-	1/2/19/22	0/1/1/1
4	MAN	F	4	4	-	2/2/19/22	0/1/1/1
4	MAN	F	5	4	-	0/2/19/22	0/1/1/1
4	MAN	F	6	4	-	0/2/19/22	0/1/1/1
4	MAN	F	7	4	-	0/2/19/22	0/1/1/1
4	MAN	F	8	4	-	2/2/19/22	0/1/1/1
4	MAN	F	9	4	-	1/2/19/22	0/1/1/1
5	NAG	G	1	5,2	-	0/6/23/26	0/1/1/1
5	NAG	G	2	5	-	0/6/23/26	0/1/1/1
5	BMA	G	3	5	-	0/2/19/22	0/1/1/1
5	MAN	G	4	5	-	0/2/19/22	0/1/1/1
5	MAN	G	5	5	-	0/2/19/22	0/1/1/1
5	MAN	G	6	5	-	1/2/19/22	0/1/1/1
6	NAG	H	1	6,2	-	0/6/23/26	0/1/1/1
6	NAG	H	2	6	-	0/6/23/26	0/1/1/1
6	BMA	H	3	6	-	1/2/19/22	0/1/1/1
7	NAG	I	1	7,3	-	2/6/23/26	0/1/1/1
7	NAG	I	2	7	-	2/6/23/26	0/1/1/1
5	NAG	J	1	5,1	-	2/6/23/26	0/1/1/1
5	NAG	J	2	5	-	0/6/23/26	0/1/1/1
5	BMA	J	3	5	-	0/2/19/22	0/1/1/1
5	MAN	J	4	5	-	0/2/19/22	0/1/1/1
5	MAN	J	5	5	-	0/2/19/22	0/1/1/1
5	MAN	J	6	5	-	0/2/19/22	0/1/1/1
5	NAG	K	1	5,2	-	0/6/23/26	0/1/1/1
5	NAG	K	2	5	-	0/6/23/26	0/1/1/1
5	BMA	K	3	5	-	0/2/19/22	0/1/1/1
5	MAN	K	4	5	-	0/2/19/22	0/1/1/1
5	MAN	K	5	5	-	0/2/19/22	0/1/1/1
5	MAN	K	6	5	-	0/2/19/22	0/1/1/1
6	NAG	L	1	6,2	-	0/6/23/26	0/1/1/1
6	NAG	L	2	6	-	1/6/23/26	0/1/1/1
6	BMA	L	3	6	-	1/2/19/22	0/1/1/1

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	7	MAN	O5-C1	-2.44	1.39	1.43
4	F	5	MAN	O5-C1	-2.31	1.40	1.43
4	F	6	MAN	O5-C1	-2.28	1.40	1.43
4	F	8	MAN	O5-C1	-2.25	1.40	1.43
4	F	10	MAN	O5-C1	-2.24	1.40	1.43

The worst 5 of 26 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	3	BMA	C1-O5-C5	6.68	121.24	112.19
6	H	3	BMA	C1-O5-C5	5.02	119.00	112.19
6	L	3	BMA	C1-O5-C5	4.87	118.79	112.19
4	F	3	BMA	C3-C4-C5	4.37	118.03	110.24
4	F	6	MAN	C1-O5-C5	3.37	116.76	112.19

There are no chirality outliers.

5 of 18 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	I	1	NAG	C8-C7-N2-C2
7	I	1	NAG	O7-C7-N2-C2
4	F	10	MAN	O5-C5-C6-O6
4	F	10	MAN	C4-C5-C6-O6
4	F	8	MAN	O5-C5-C6-O6

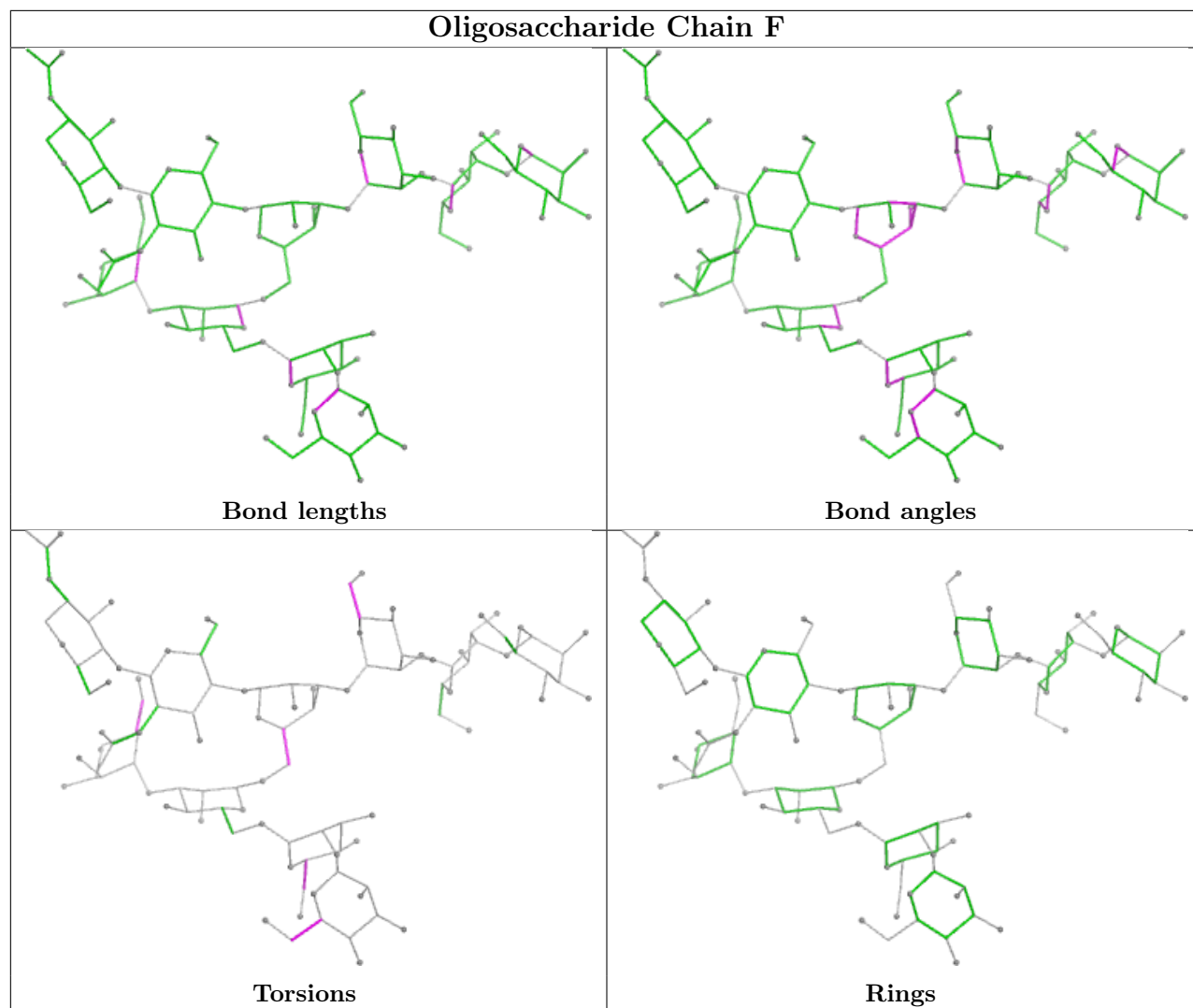
There are no ring outliers.

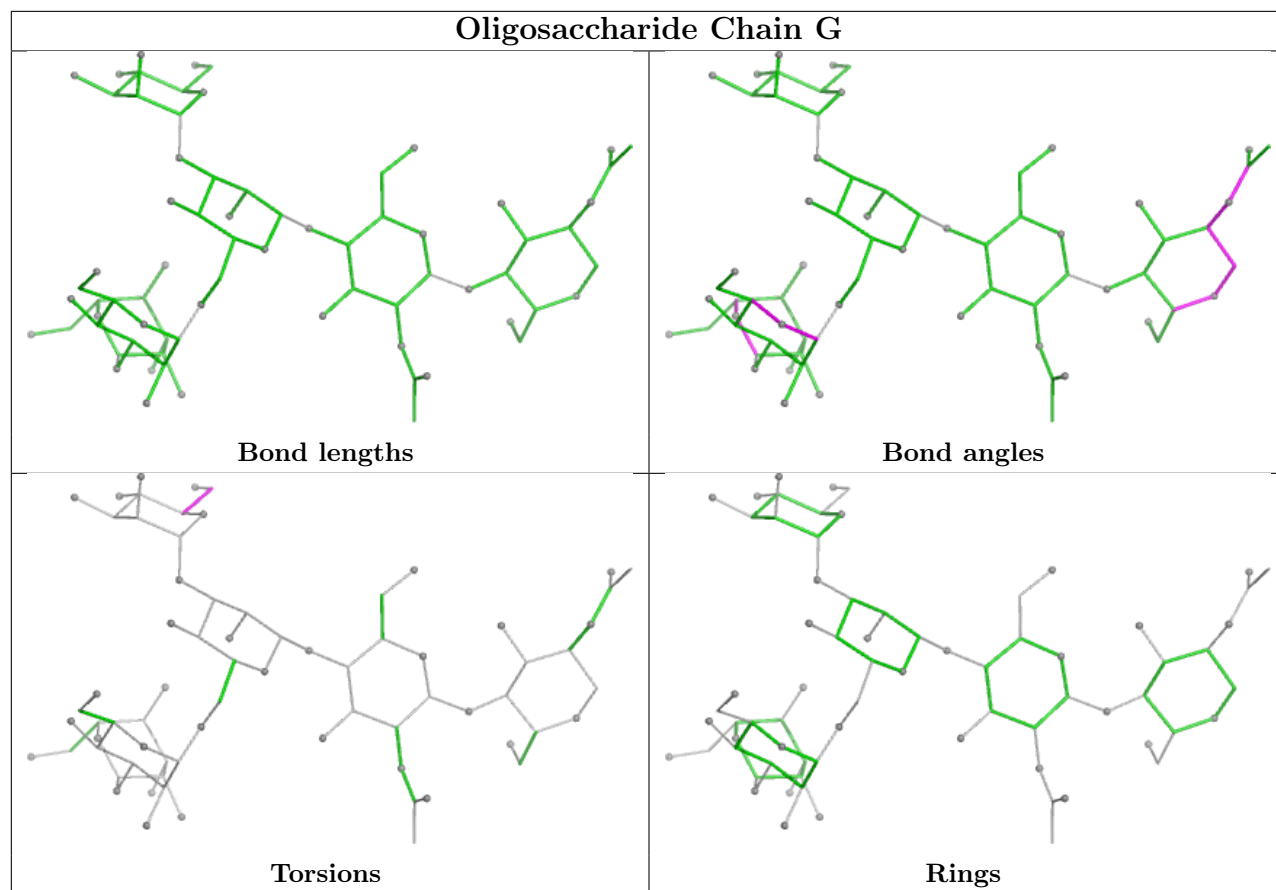
5 monomers are involved in 3 short contacts:

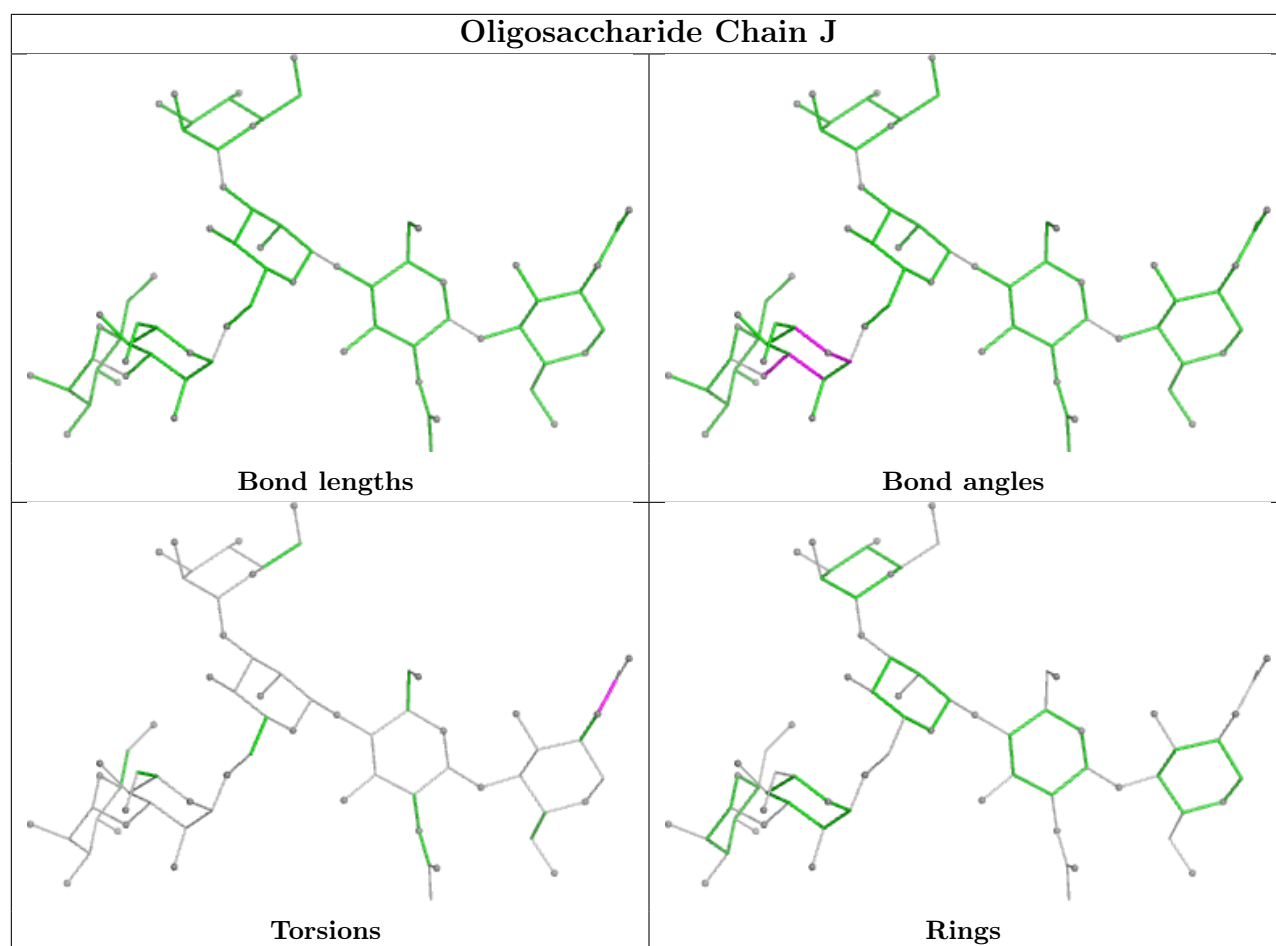
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	F	3	BMA	1	0
5	K	5	MAN	1	0
7	I	2	NAG	1	0
7	I	1	NAG	1	0
5	K	4	MAN	1	0

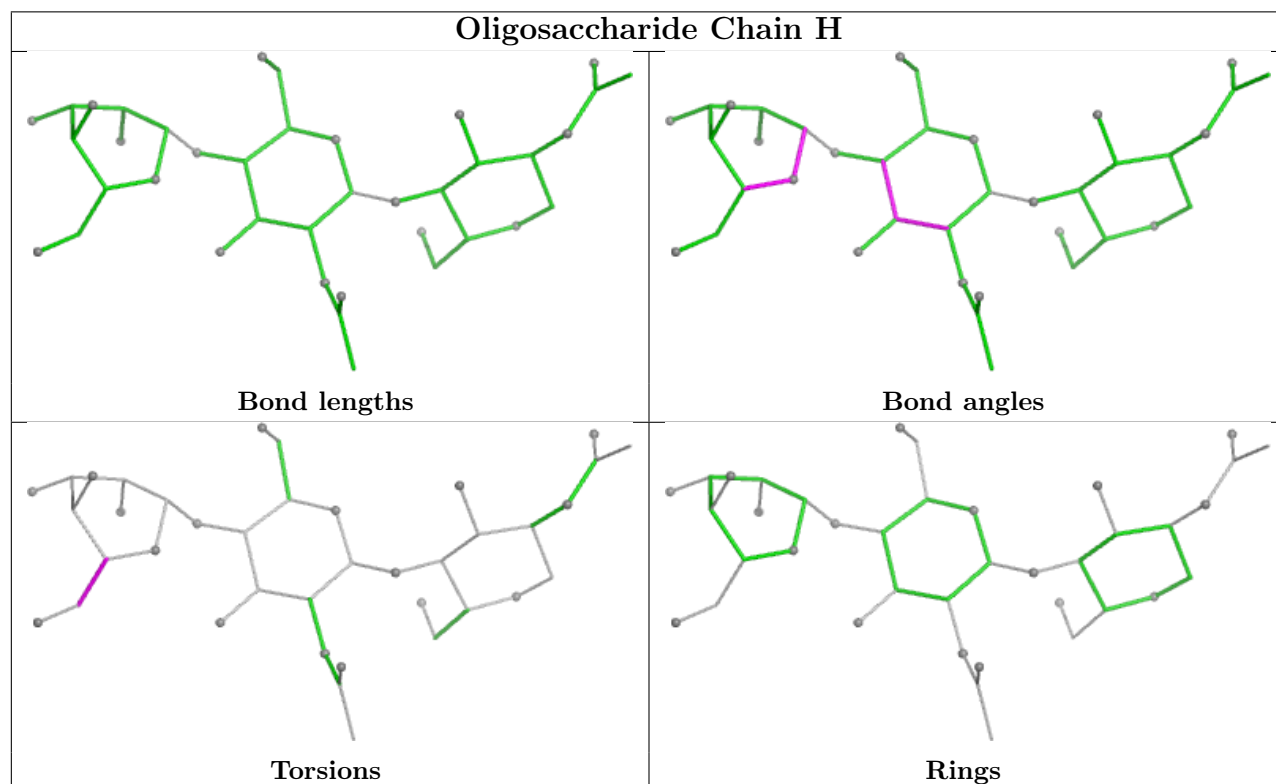
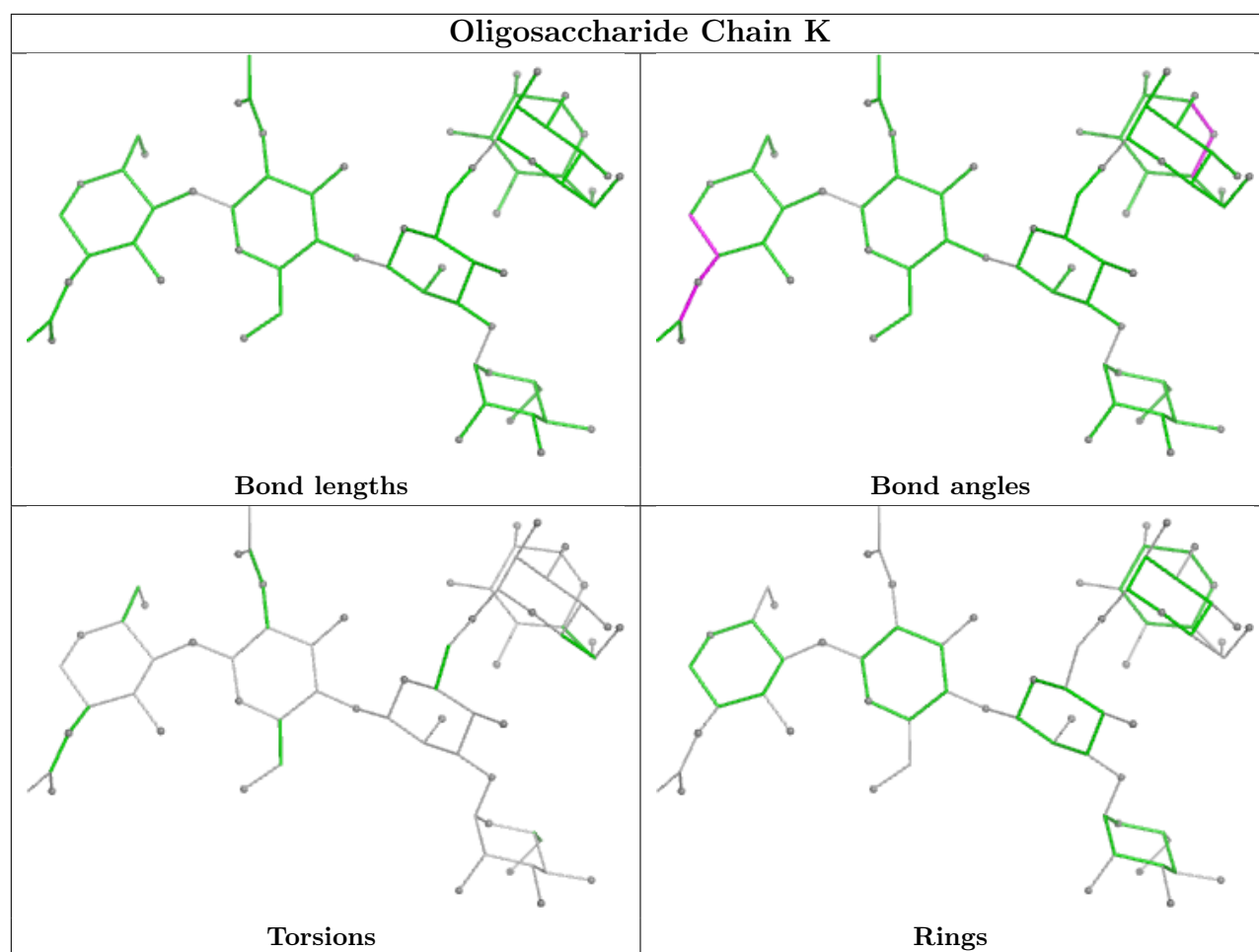
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

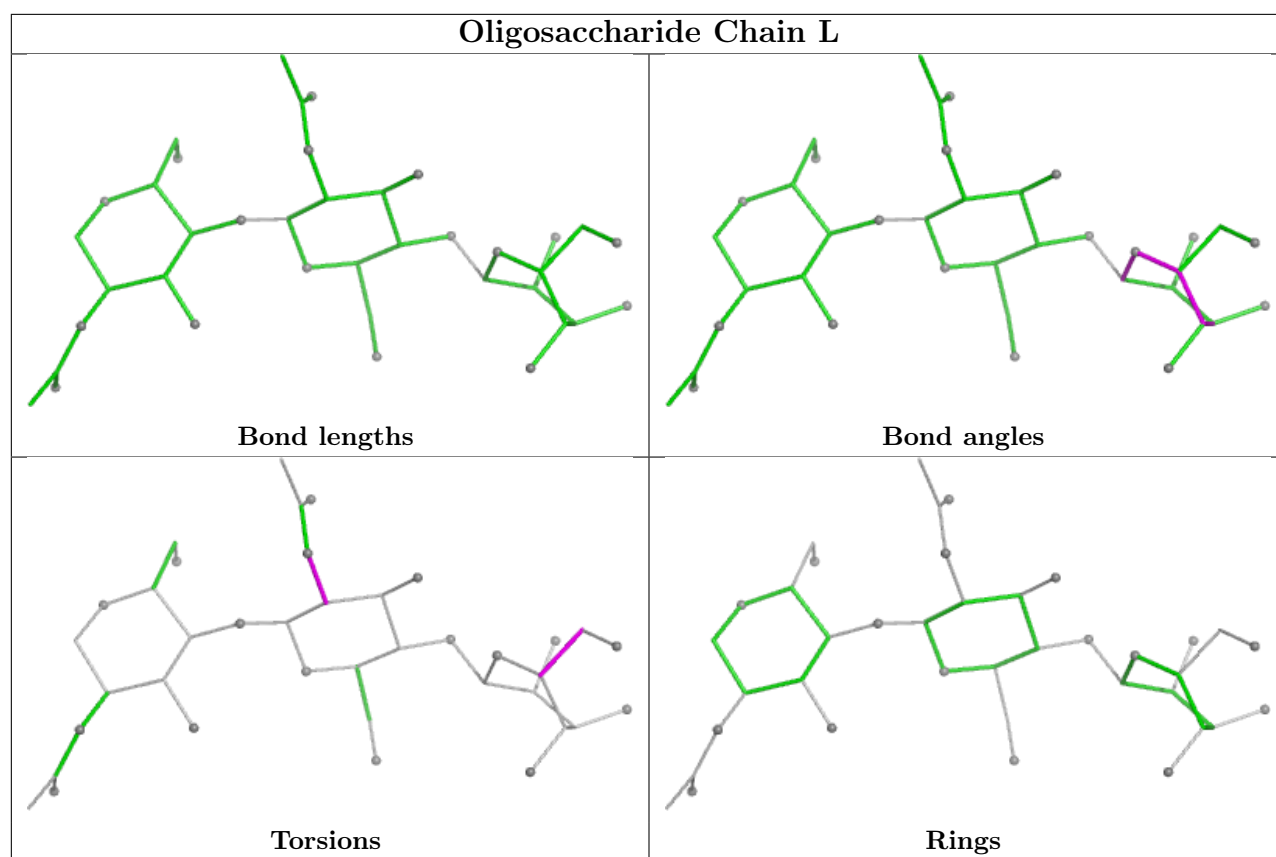


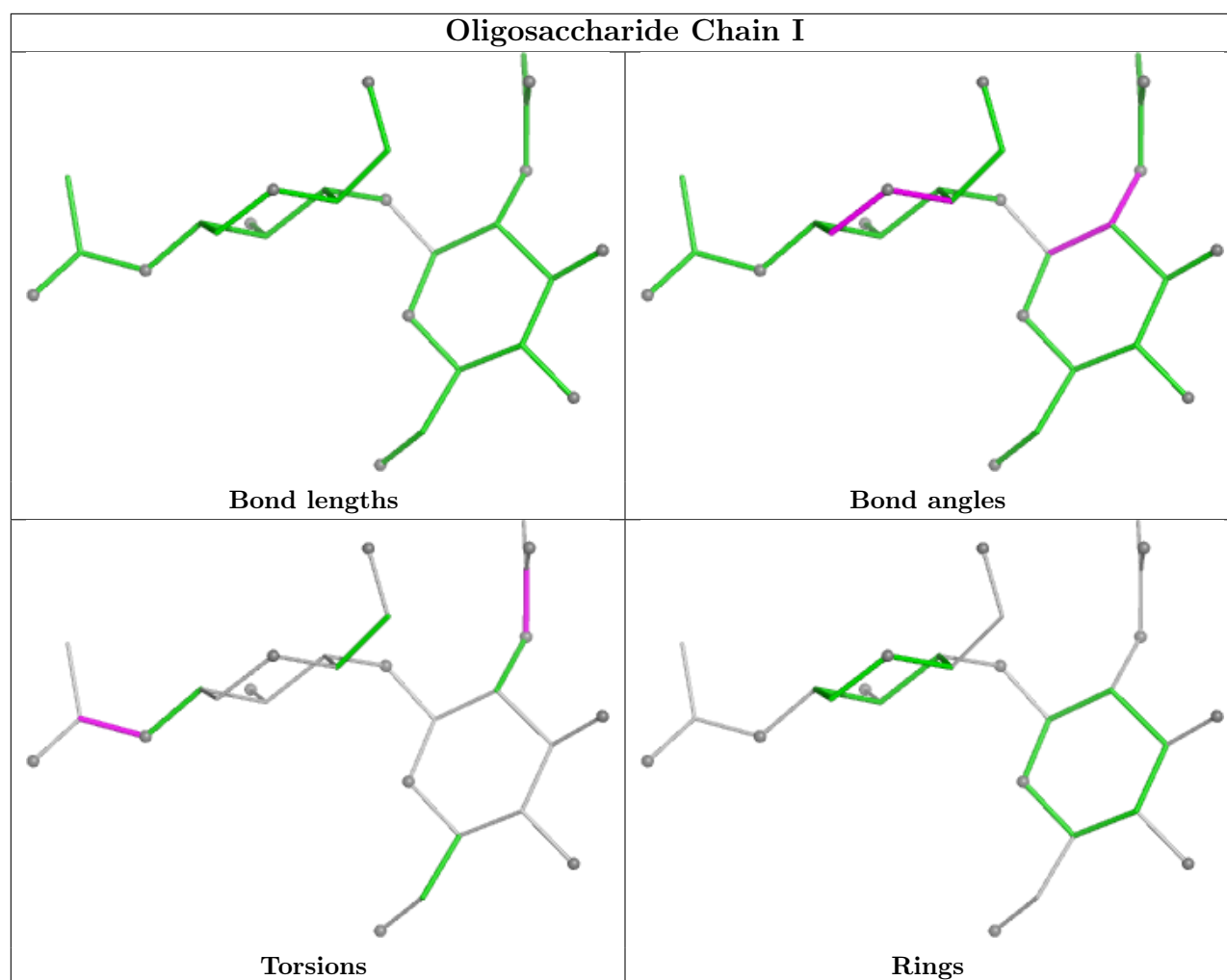












## 5.6 Ligand geometry [i](#)

Of 42 ligands modelled in this entry, 1 is monoatomic - leaving 41 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
13	OLC	B	505	-	24,24,24	1.04	1 (4%)	25,25,25	1.16	2 (8%)
15	HEX	C	501	-	5,5,5	0.28	0	4,4,4	0.61	0
8	D10	D	507	-	9,9,9	0.29	0	8,8,8	0.81	0
15	HEX	E	508	-	5,5,5	0.30	0	4,4,4	0.58	0
14	PLM	C	504	-	17,17,17	0.55	0	17,17,17	0.49	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
16	NAG	D	502	1	14,14,15	0.69	0	17,19,21	1.11	1 (5%)
12	PX2	A	4205	-	35,35,35	1.37	4 (11%)	39,40,40	1.13	2 (5%)
8	D10	B	507	-	9,9,9	0.29	0	8,8,8	0.80	0
10	R16	A	4203	-	15,15,15	0.28	0	14,14,14	0.86	0
8	D10	A	4201	-	9,9,9	0.29	0	8,8,8	0.81	0
10	R16	D	506	-	15,15,15	0.29	0	14,14,14	0.84	0
8	D10	E	502	-	9,9,9	0.28	0	8,8,8	0.81	0
15	HEX	C	507	-	5,5,5	0.30	0	4,4,4	0.58	0
8	D10	B	503	-	9,9,9	0.30	0	8,8,8	0.77	0
15	HEX	A	4209	-	5,5,5	0.29	0	4,4,4	0.60	0
15	HEX	C	503	-	5,5,5	0.13	0	4,4,4	0.06	0
8	D10	B	504	-	9,9,9	0.29	0	8,8,8	0.81	0
15	HEX	E	503	-	5,5,5	0.29	0	4,4,4	0.56	0
9	PT5	A	4202	-	69,69,69	0.42	0	83,87,87	0.63	2 (2%)
15	HEX	D	503	-	5,5,5	0.30	0	4,4,4	0.59	0
16	NAG	C	502	3	14,14,15	0.39	0	17,19,21	1.72	2 (11%)
8	D10	E	505	-	9,9,9	0.28	0	8,8,8	0.82	0
11	EPE	A	4204	-	15,15,15	1.19	3 (20%)	18,20,20	1.83	5 (27%)
8	D10	E	504	-	9,9,9	0.28	0	8,8,8	0.81	0
14	PLM	A	4208	-	17,17,17	0.56	0	17,17,17	1.14	0
10	R16	D	505	-	15,15,15	0.31	0	14,14,14	0.70	0
15	HEX	B	502	-	5,5,5	0.30	0	4,4,4	0.58	0
15	HEX	E	507	-	5,5,5	0.30	0	4,4,4	0.59	0
12	PX2	D	508	-	35,35,35	1.37	4 (11%)	39,40,40	1.12	2 (5%)
12	PX2	A	4207	-	35,35,35	1.36	4 (11%)	39,40,40	1.15	2 (5%)
10	R16	B	506	-	15,15,15	0.29	0	14,14,14	0.81	0
15	HEX	C	506	-	5,5,5	0.30	0	4,4,4	0.58	0
17	PGW	C	505	-	50,50,50	0.32	0	53,56,56	0.34	0
13	OLC	E	501	-	24,24,24	1.02	1 (4%)	25,25,25	1.20	2 (8%)
10	R16	E	506	-	15,15,15	0.30	0	14,14,14	0.79	0
14	PLM	C	508	-	17,17,17	0.57	0	17,17,17	1.12	1 (5%)
9	PT5	D	501	-	69,69,69	0.45	0	83,87,87	0.57	1 (1%)
13	OLC	A	4206	-	24,24,24	1.04	1 (4%)	25,25,25	1.25	2 (8%)
15	HEX	B	501	-	5,5,5	0.30	0	4,4,4	0.56	0
8	D10	D	504	-	9,9,9	0.30	0	8,8,8	0.77	0
8	D10	A	4210	-	9,9,9	0.29	0	8,8,8	0.76	0

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
13	OLC	B	505	-	-	12/24/24/24	-
15	HEX	C	501	-	-	1/3/3/3	-
8	D10	D	507	-	-	2/7/7/7	-
15	HEX	E	508	-	-	0/3/3/3	-
14	PLM	C	504	-	-	6/15/15/15	-
16	NAG	D	502	1	-	2/6/23/26	0/1/1/1
12	PX2	A	4205	-	-	14/37/37/37	-
8	D10	B	507	-	-	1/7/7/7	-
10	R16	A	4203	-	-	2/13/13/13	-
8	D10	A	4201	-	-	1/7/7/7	-
10	R16	D	506	-	-	4/13/13/13	-
8	D10	E	502	-	-	1/7/7/7	-
15	HEX	C	507	-	-	0/3/3/3	-
8	D10	B	503	-	-	1/7/7/7	-
15	HEX	A	4209	-	-	0/3/3/3	-
15	HEX	C	503	-	-	0/3/3/3	-
8	D10	B	504	-	-	0/7/7/7	-
15	HEX	E	503	-	-	0/3/3/3	-
9	PT5	A	4202	-	-	18/66/90/90	0/1/1/1
15	HEX	D	503	-	-	0/3/3/3	-
16	NAG	C	502	3	-	1/6/23/26	0/1/1/1
8	D10	E	505	-	-	2/7/7/7	-
11	EPE	A	4204	-	-	2/9/19/19	0/1/1/1
8	D10	E	504	-	-	1/7/7/7	-
14	PLM	A	4208	-	-	8/15/15/15	-
10	R16	D	505	-	-	3/13/13/13	-
15	HEX	B	502	-	-	1/3/3/3	-
15	HEX	E	507	-	-	0/3/3/3	-
12	PX2	D	508	-	-	22/37/37/37	-
12	PX2	A	4207	-	-	21/37/37/37	-
10	R16	B	506	-	-	5/13/13/13	-
15	HEX	C	506	-	-	0/3/3/3	-
17	PGW	C	505	-	-	17/55/55/55	-
13	OLC	E	501	-	-	14/24/24/24	-
10	R16	E	506	-	-	2/13/13/13	-
14	PLM	C	508	-	-	3/15/15/15	-
9	PT5	D	501	-	-	22/66/90/90	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	OLC	A	4206	-	-	12/24/24/24	-
15	HEX	B	501	-	-	0/3/3/3	-
8	D10	D	504	-	-	0/7/7/7	-
8	D10	A	4210	-	-	3/7/7/7	-

The worst 5 of 18 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A	4205	PX2	O7-C16	3.80	1.45	1.34
12	D	508	PX2	O7-C16	3.74	1.44	1.34
12	A	4207	PX2	O7-C16	3.74	1.44	1.34
12	A	4205	PX2	O5-C4	3.55	1.43	1.33
12	A	4207	PX2	O5-C4	3.48	1.43	1.33

The worst 5 of 24 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	C	502	NAG	C2-N2-C7	5.67	130.97	122.90
12	A	4205	PX2	O7-C16-C17	4.06	120.24	111.50
12	A	4207	PX2	O7-C16-C17	4.00	120.11	111.50
11	A	4204	EPE	O2S-S-C10	3.96	111.68	106.92
12	D	508	PX2	O7-C16-C17	3.89	119.88	111.50

There are no chirality outliers.

5 of 204 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	A	4202	PT5	C12-C10-O16-C8
9	D	501	PT5	C7-O13-P1-O12
9	D	501	PT5	O17-C10-O16-C8
9	D	501	PT5	C12-C10-O16-C8
9	D	501	PT5	C17-C18-C19-C20

There are no ring outliers.

21 monomers are involved in 37 short contacts:

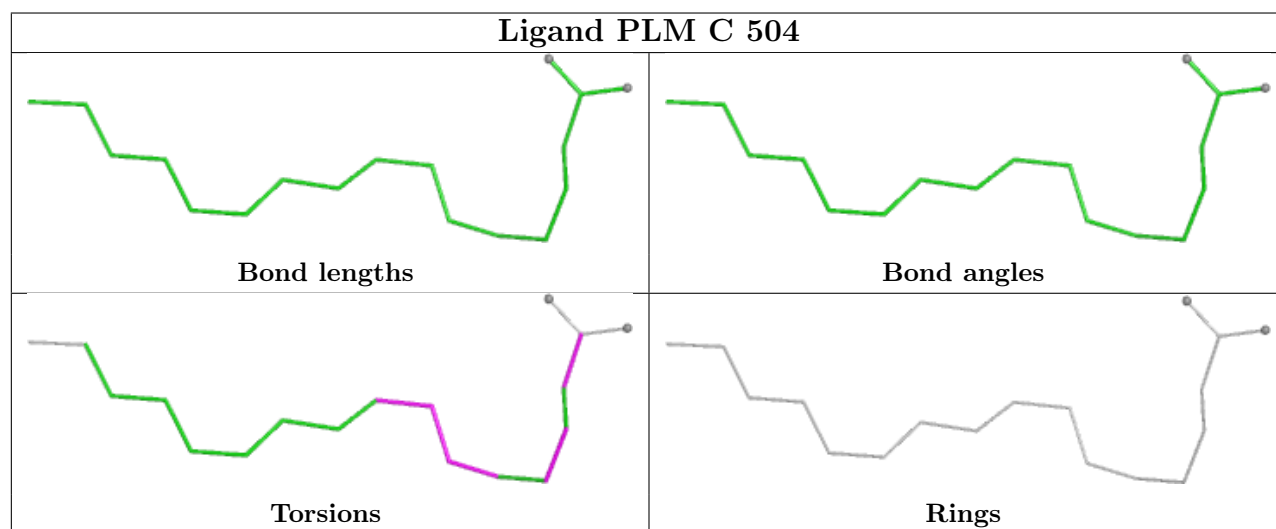
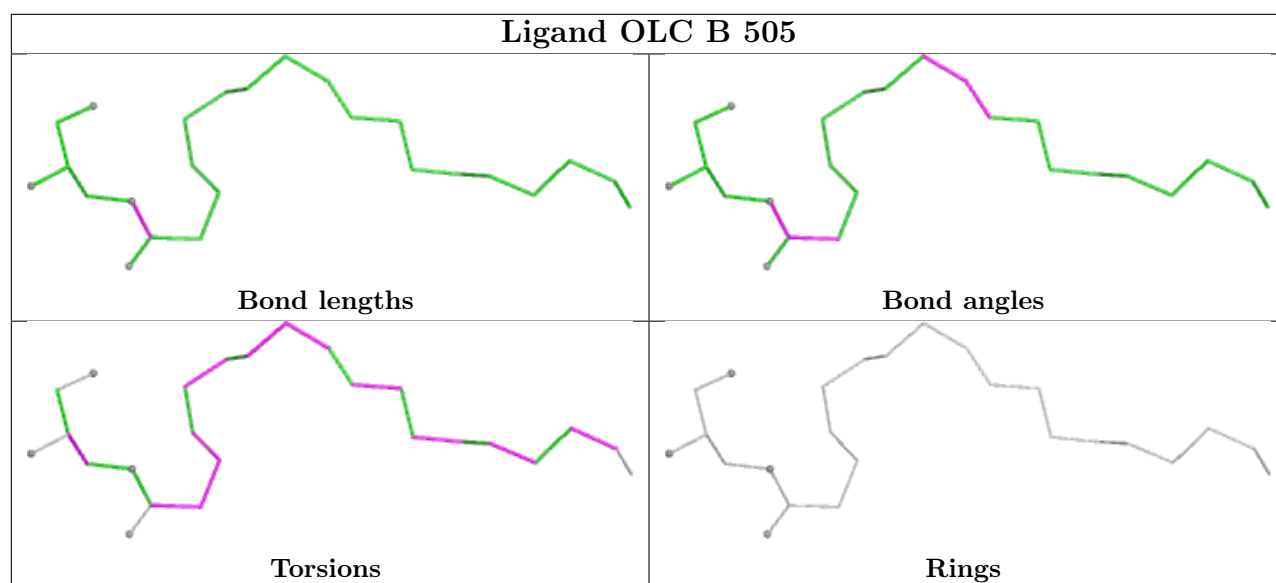
Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	B	505	OLC	2	0
15	C	501	HEX	1	0
14	C	504	PLM	2	0

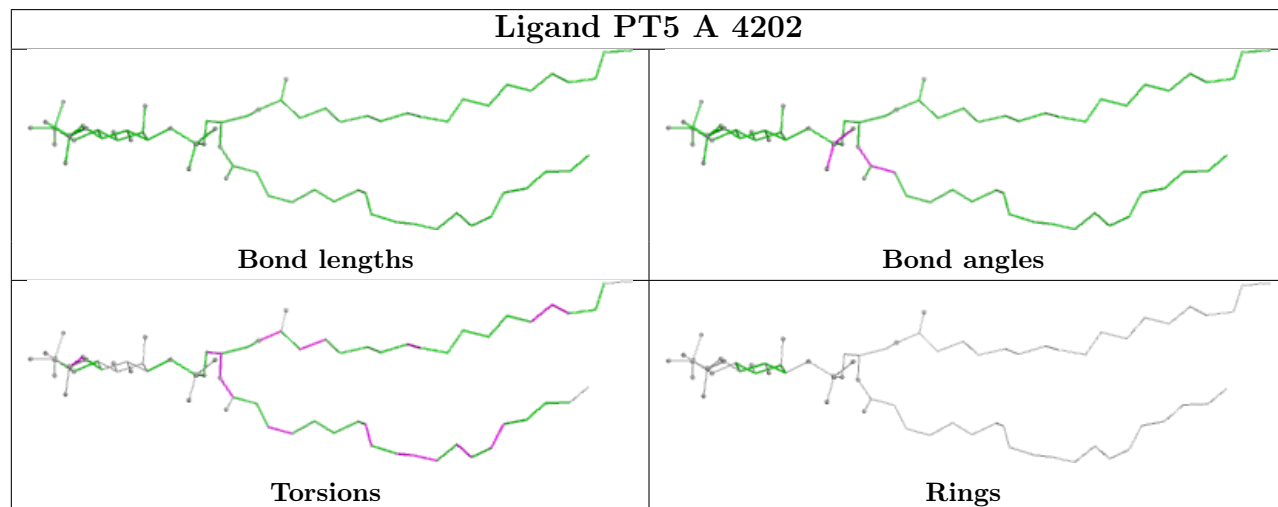
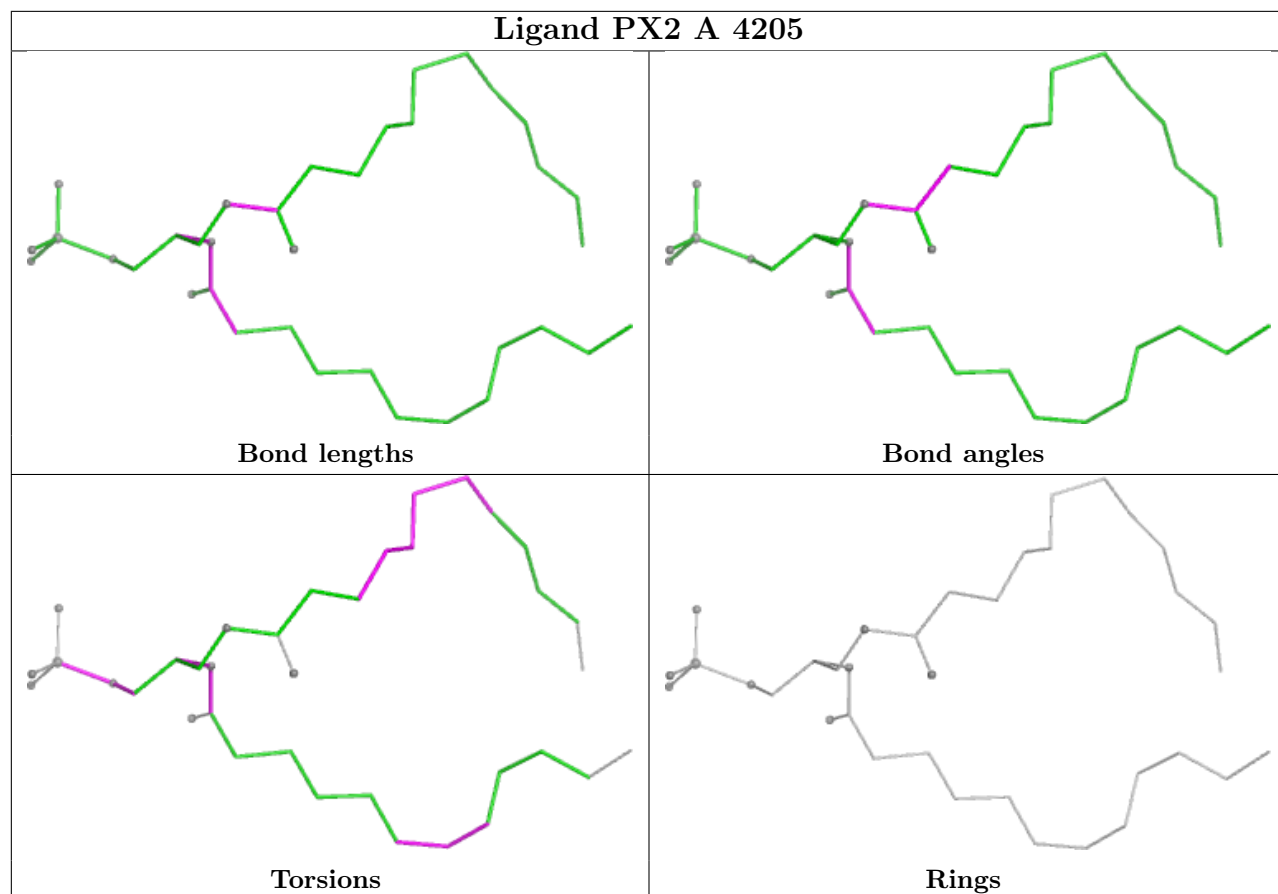
*Continued on next page...*

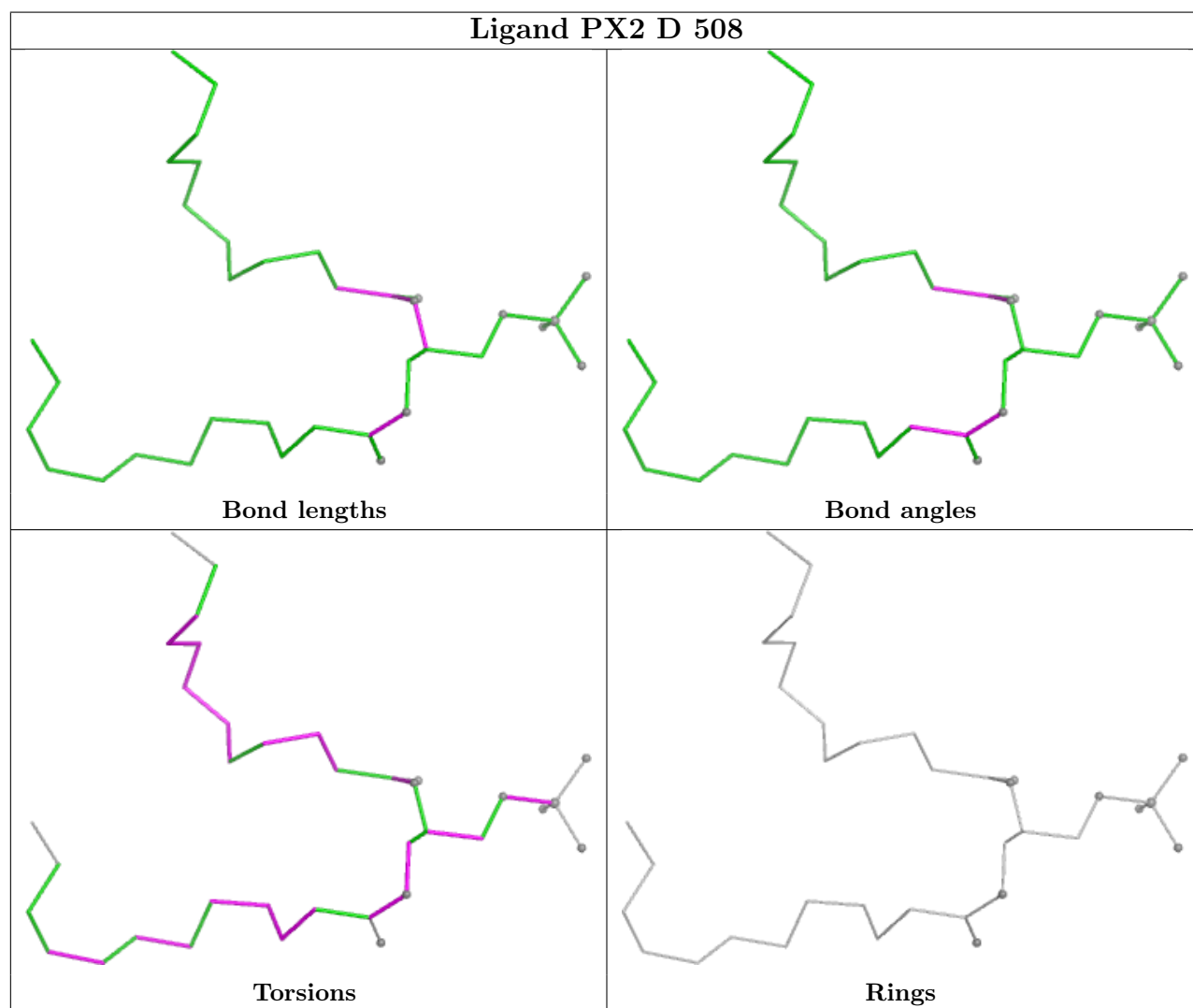
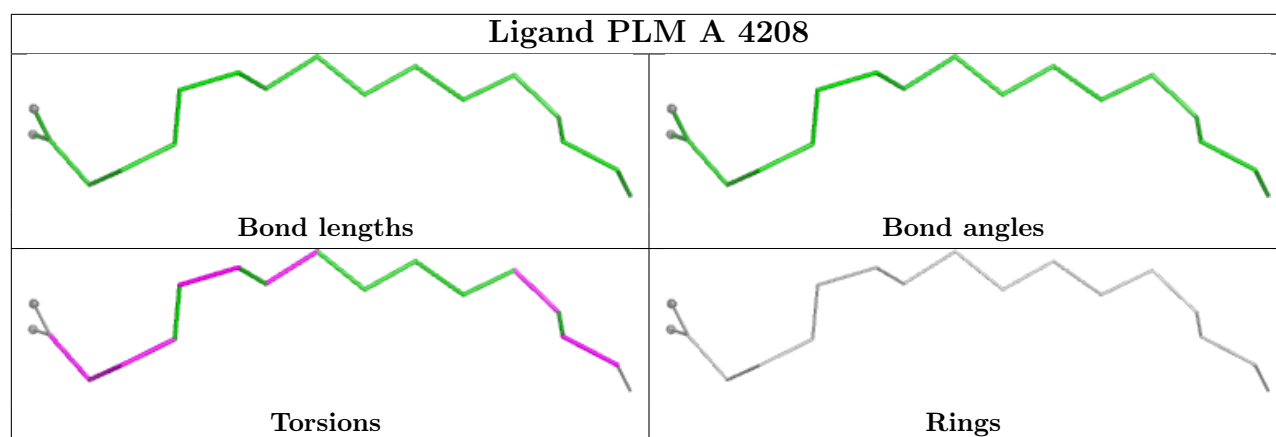
*Continued from previous page...*

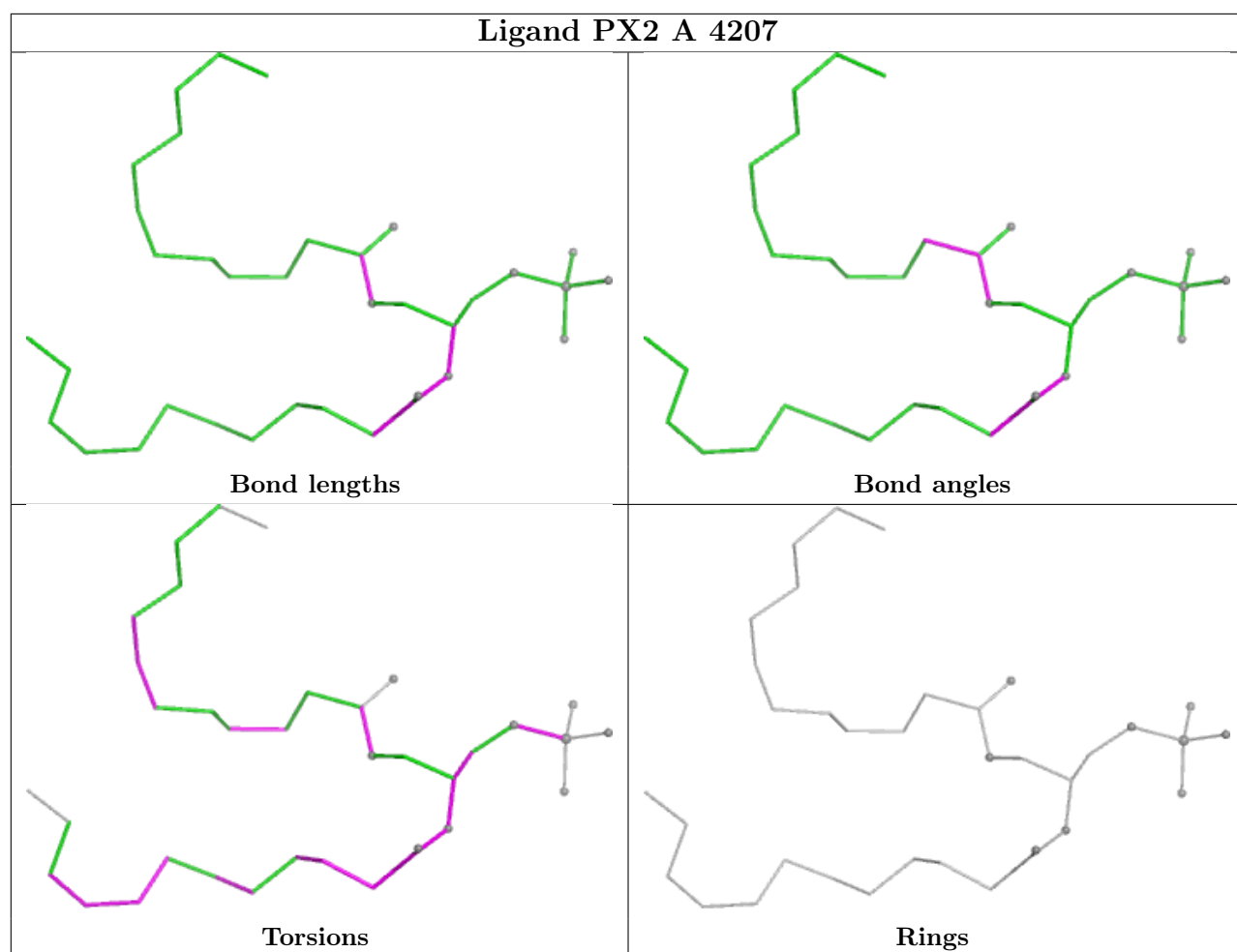
Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	A	4205	PX2	1	0
10	A	4203	R16	1	0
8	A	4201	D10	1	0
8	E	502	D10	3	0
8	B	503	D10	1	0
8	B	504	D10	1	0
9	A	4202	PT5	1	0
15	D	503	HEX	1	0
11	A	4204	EPE	4	0
14	A	4208	PLM	5	0
10	D	505	R16	1	0
15	E	507	HEX	5	0
12	D	508	PX2	1	0
12	A	4207	PX2	4	0
17	C	505	PGW	4	0
9	D	501	PT5	5	0
13	A	4206	OLC	1	0
8	A	4210	D10	2	0

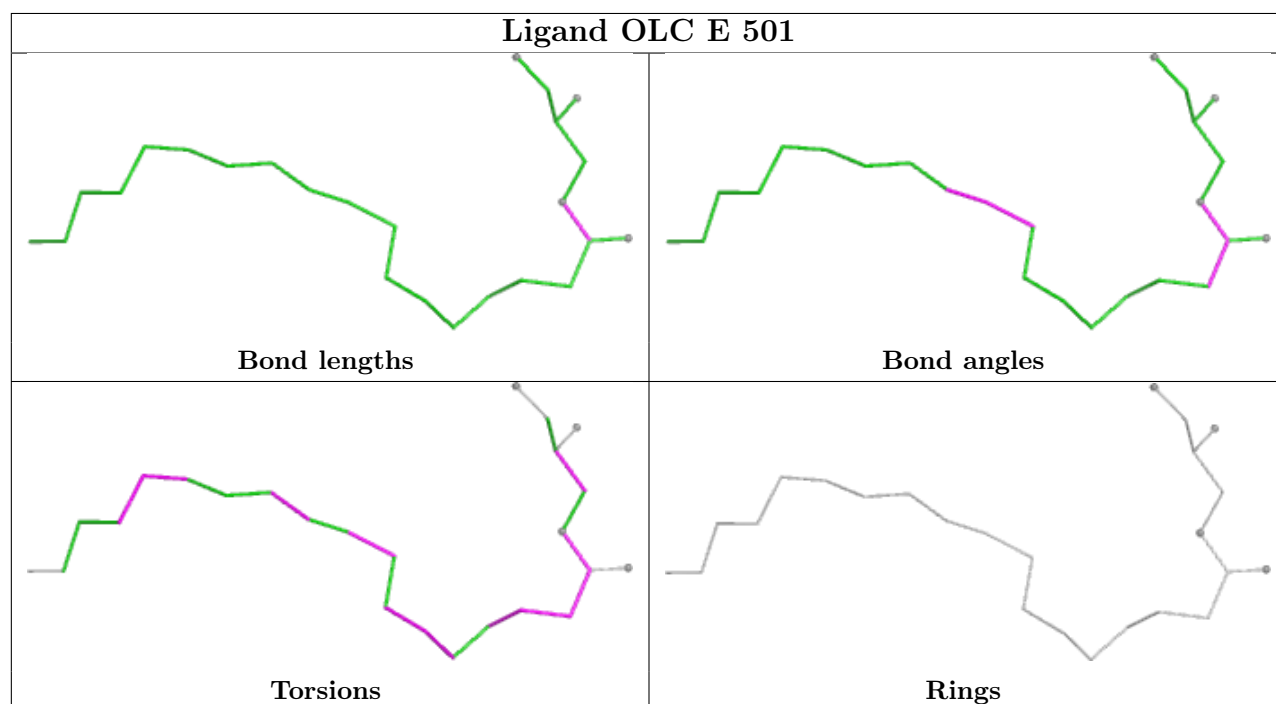
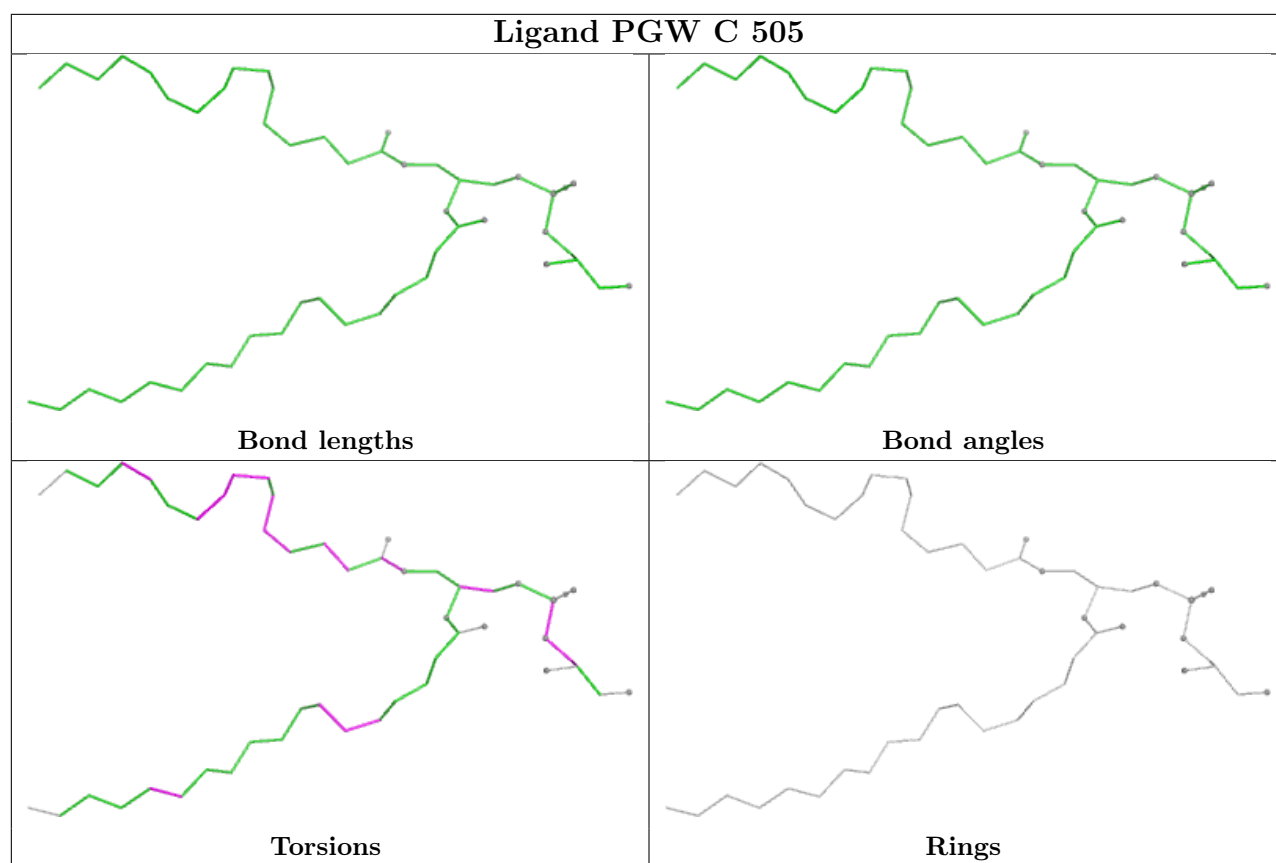
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

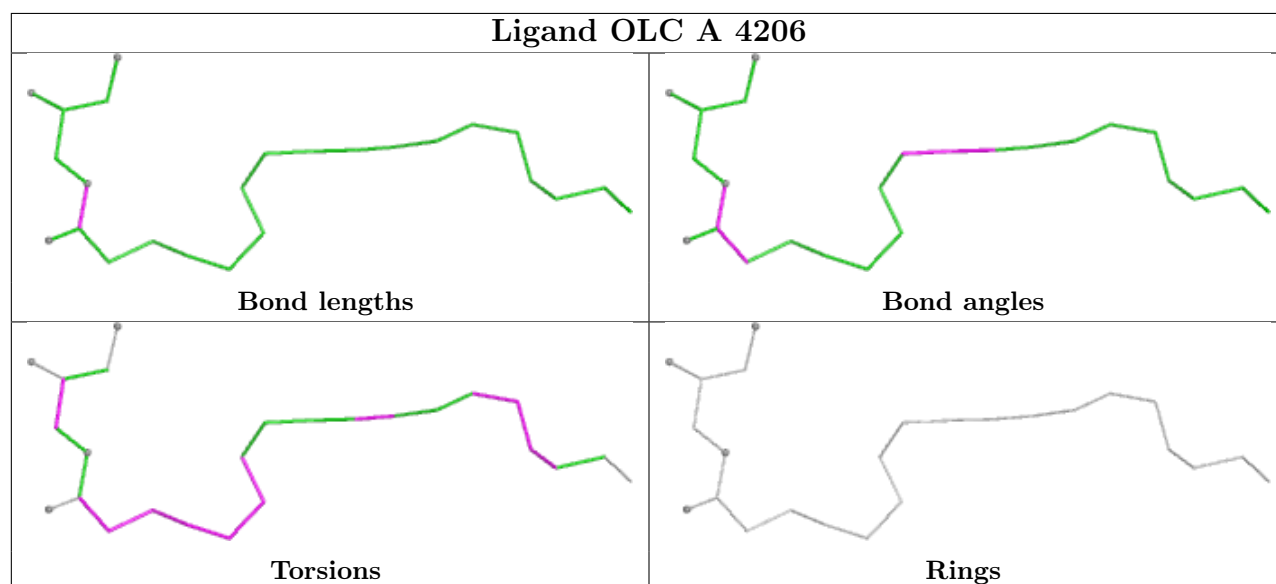
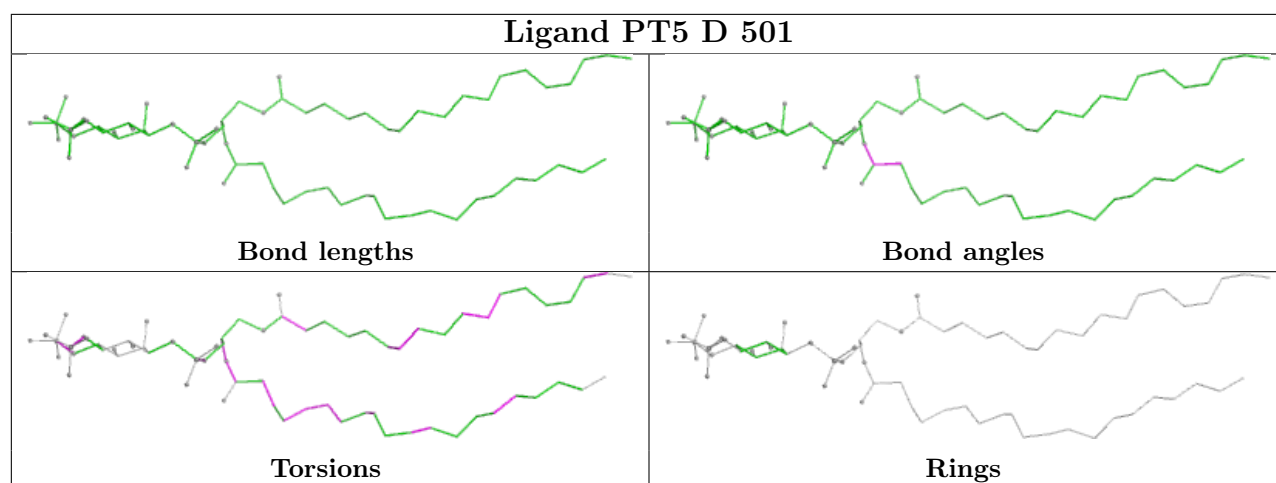
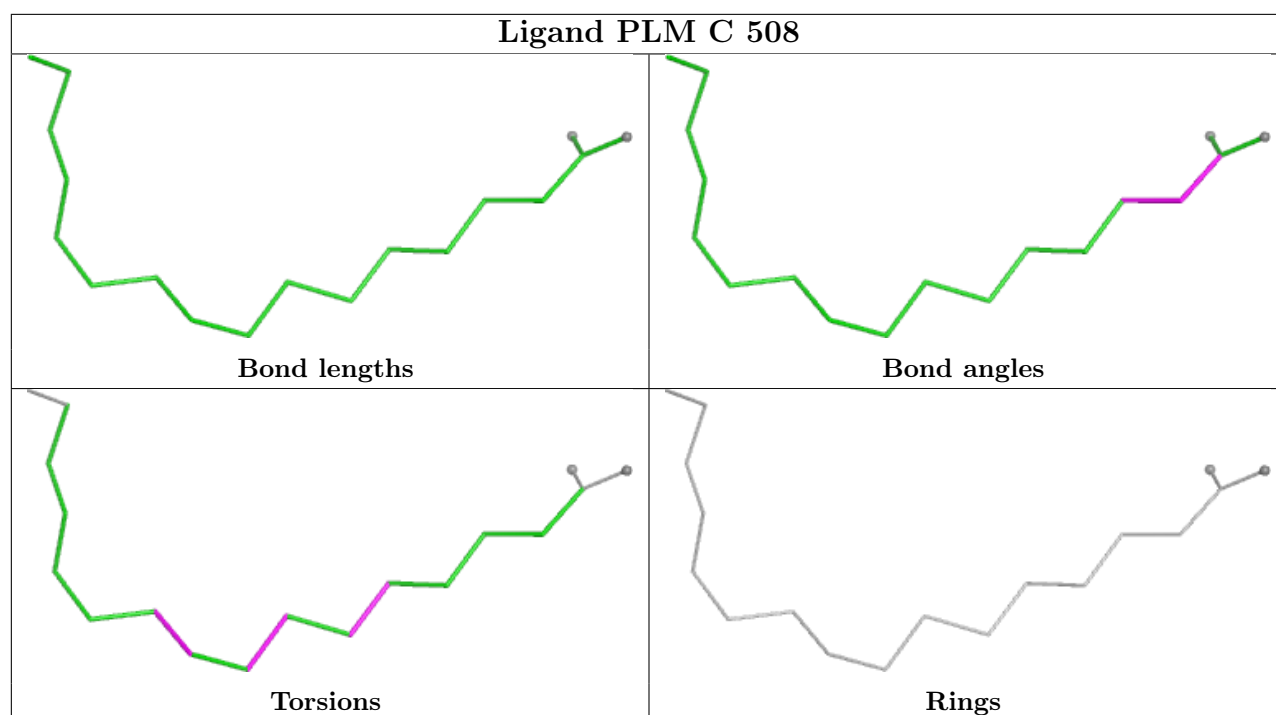














## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

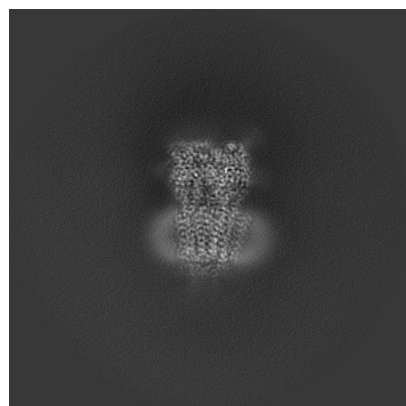
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-53948. These allow visual inspection of the internal detail of the map and identification of artifacts.

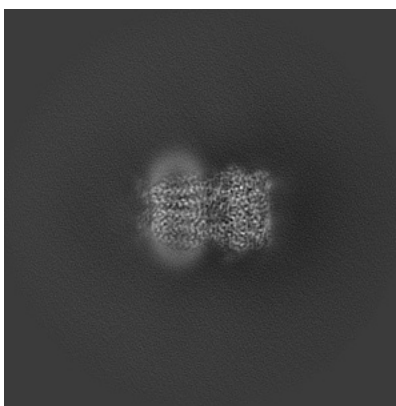
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

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

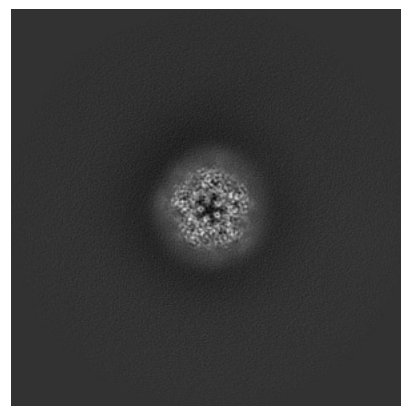
#### 6.1.1 Primary map



X

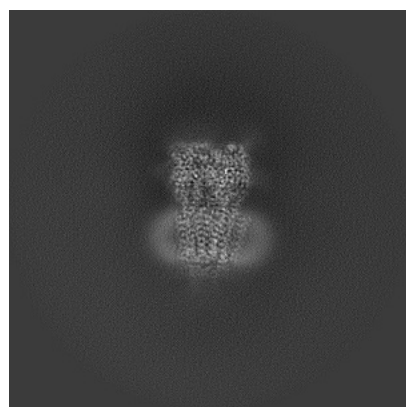


Y

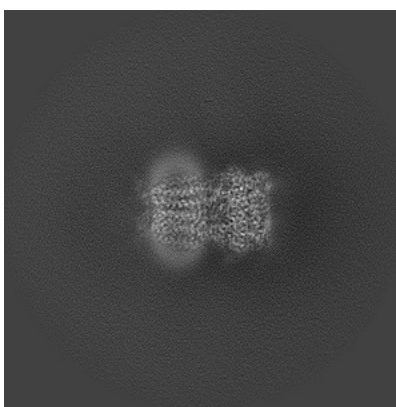


Z

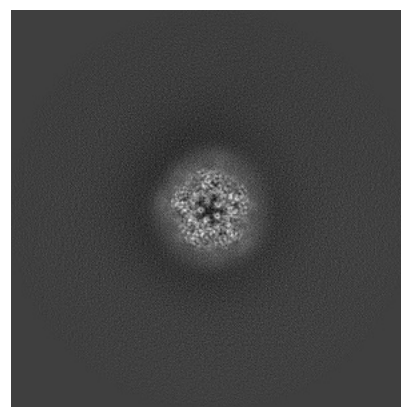
#### 6.1.2 Raw map



X



Y

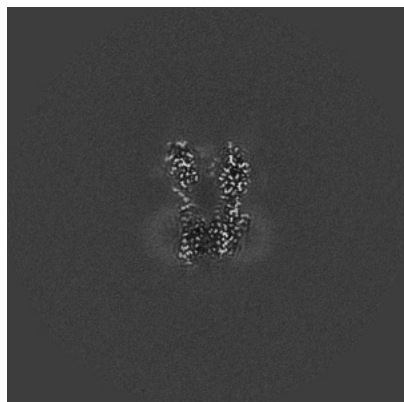


Z

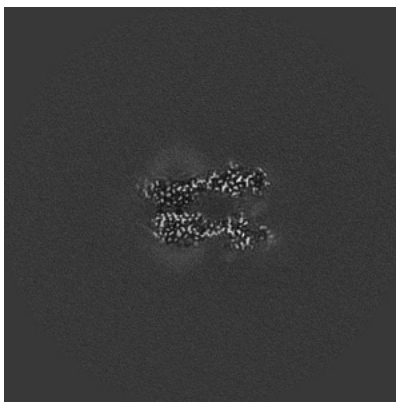
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

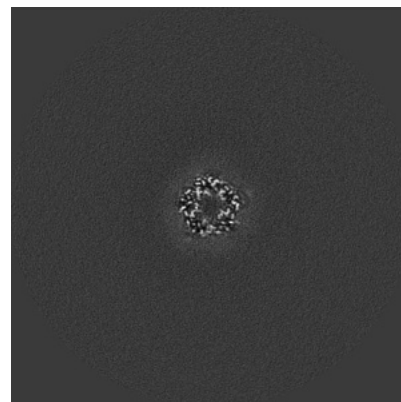
### 6.2.1 Primary map



X Index: 240

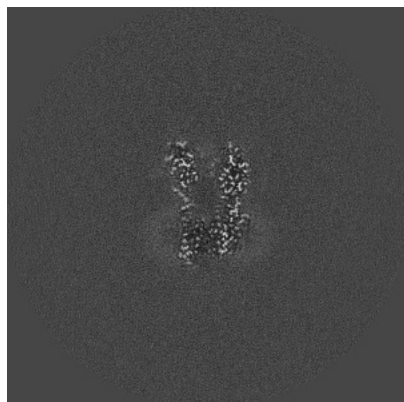


Y Index: 240

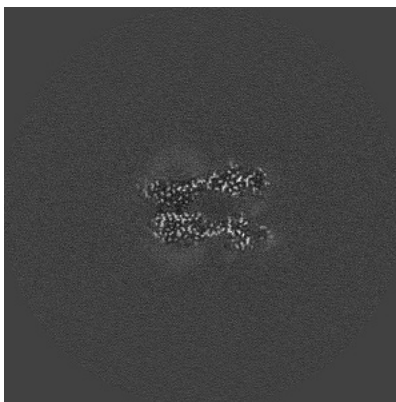


Z Index: 240

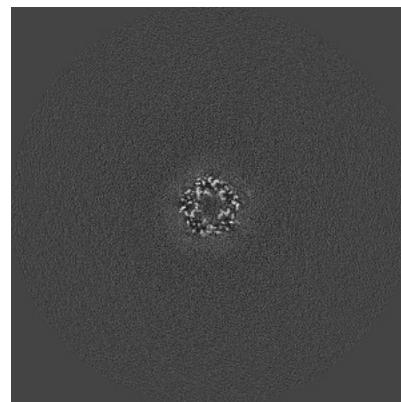
### 6.2.2 Raw map



X Index: 240



Y Index: 240

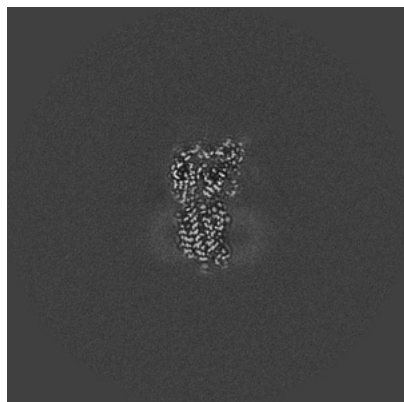


Z Index: 240

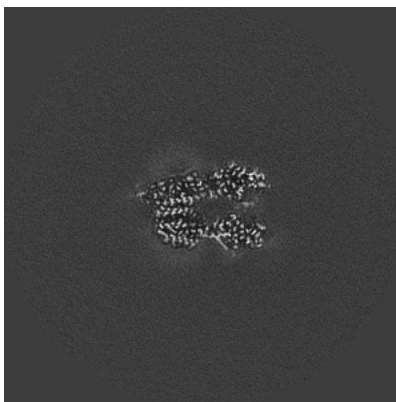
The images above show central slices of the map in three orthogonal directions.

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

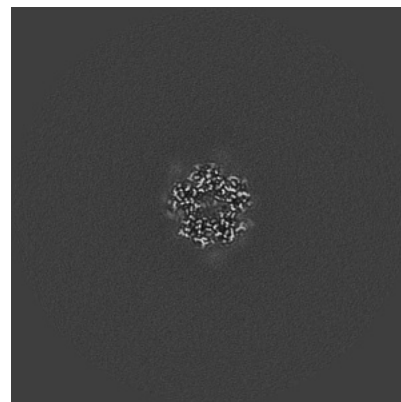
### 6.3.1 Primary map



X Index: 261

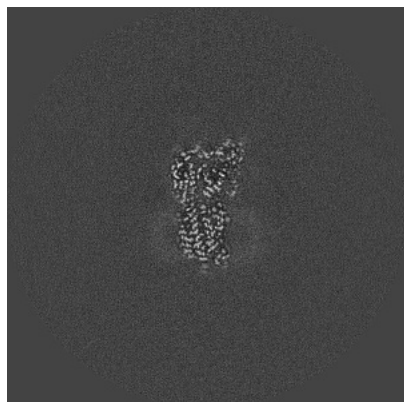


Y Index: 248

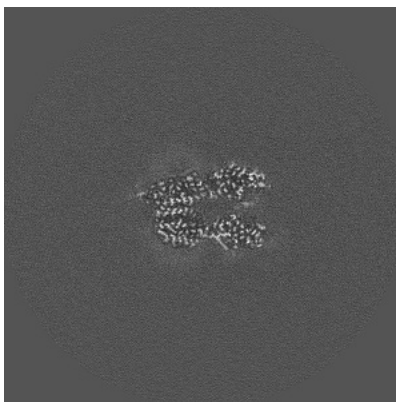


Z Index: 284

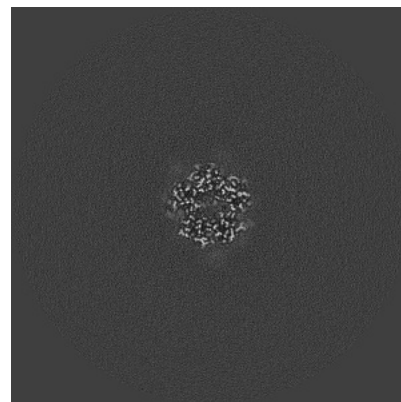
### 6.3.2 Raw map



X Index: 261



Y Index: 248

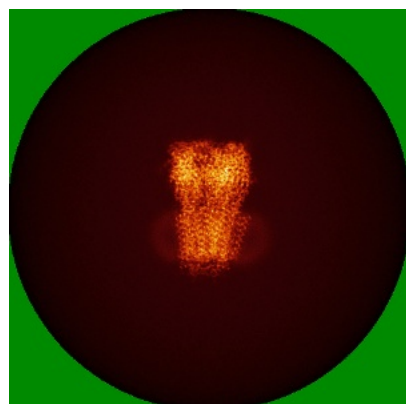


Z Index: 284

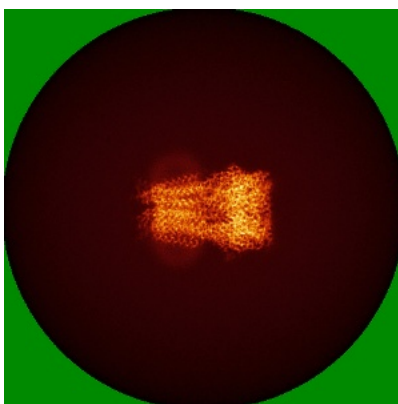
The images above show the largest variance slices of the map in three orthogonal directions.

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

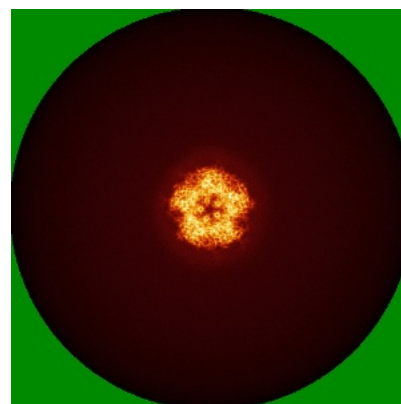
### 6.4.1 Primary map



X

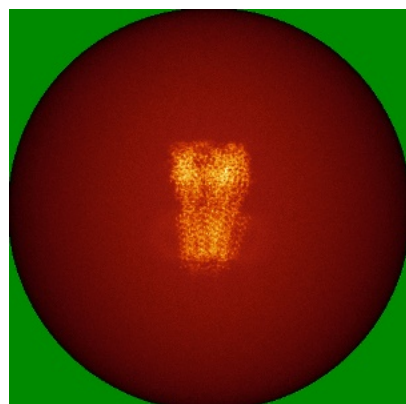


Y

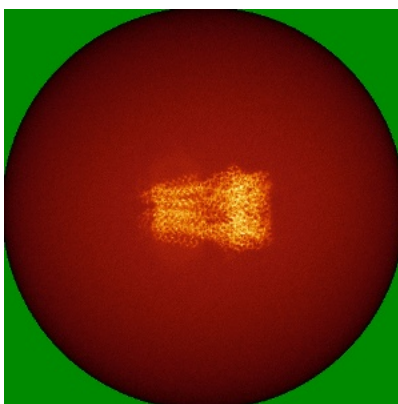


Z

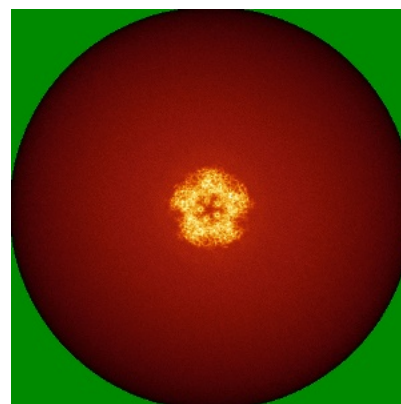
### 6.4.2 Raw map



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](#)

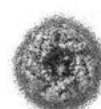
### 6.5.1 Primary map



X



Y



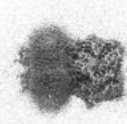
Z

The images above show the 3D surface view of the map at the recommended contour level 0.0025. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

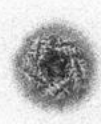
### 6.5.2 Raw map



X



Y



Z

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.



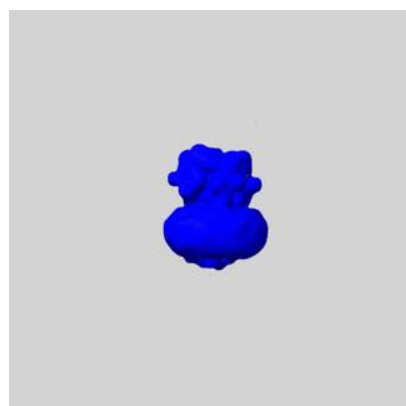
## 6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

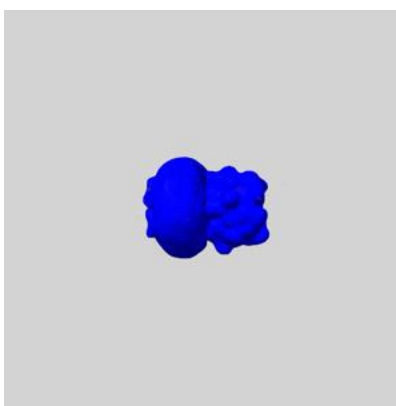
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

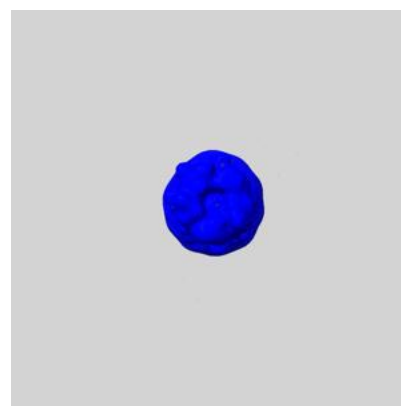
### 6.6.1 emd\_53948\_msk\_1.map [i](#)



X



Y

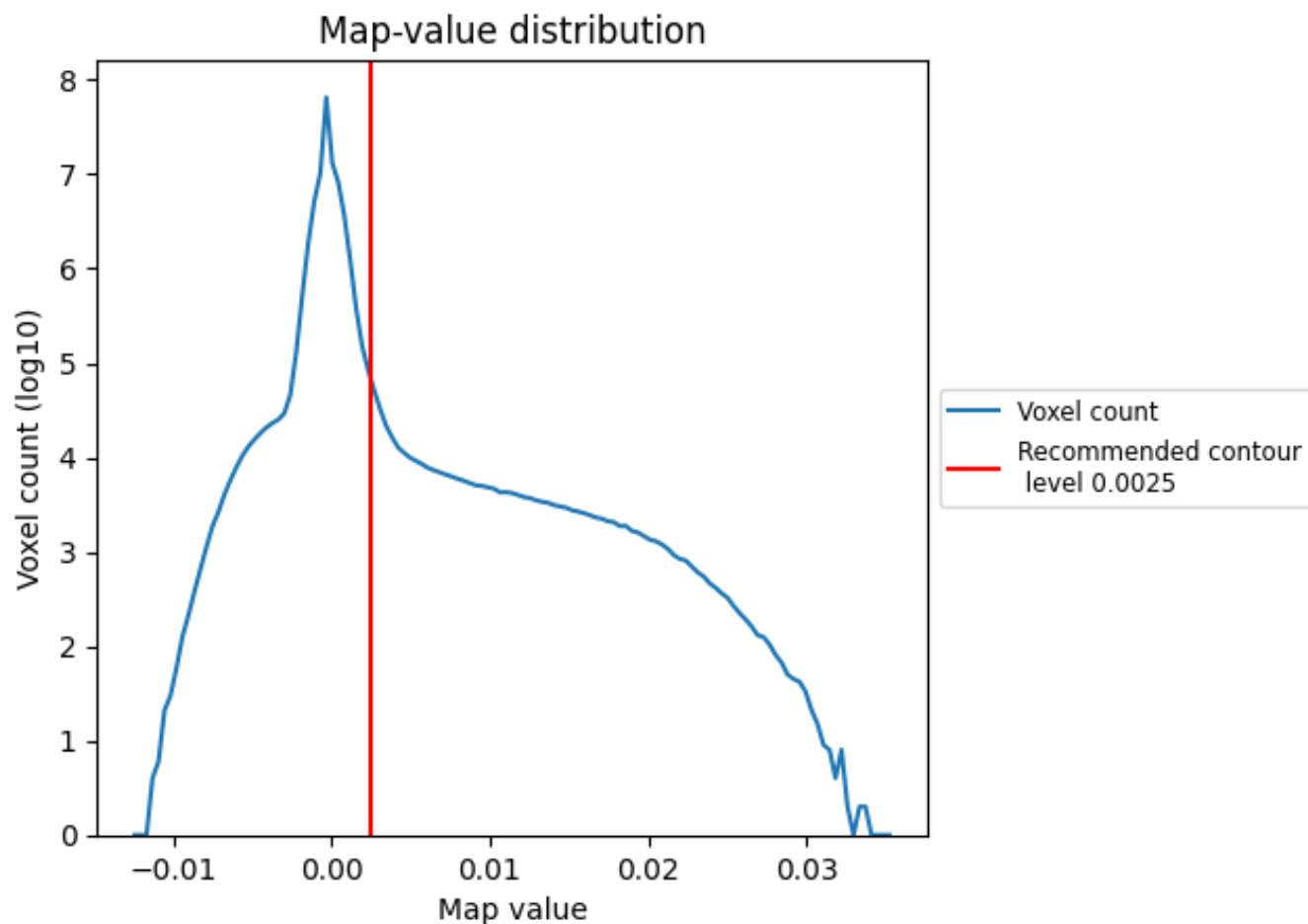


Z

## 7 Map analysis [i](#)

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

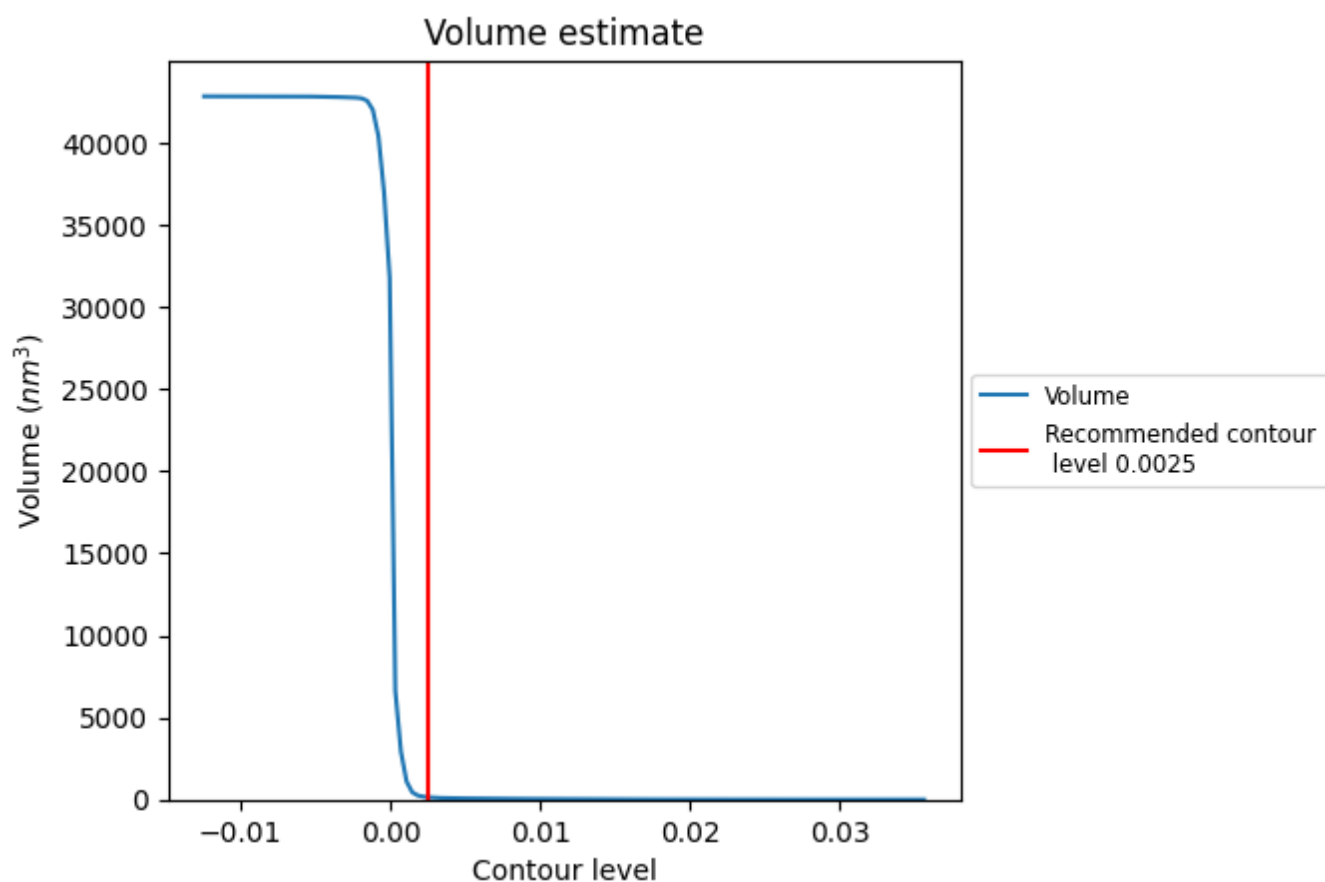
### 7.1 Map-value distribution [i](#)



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.



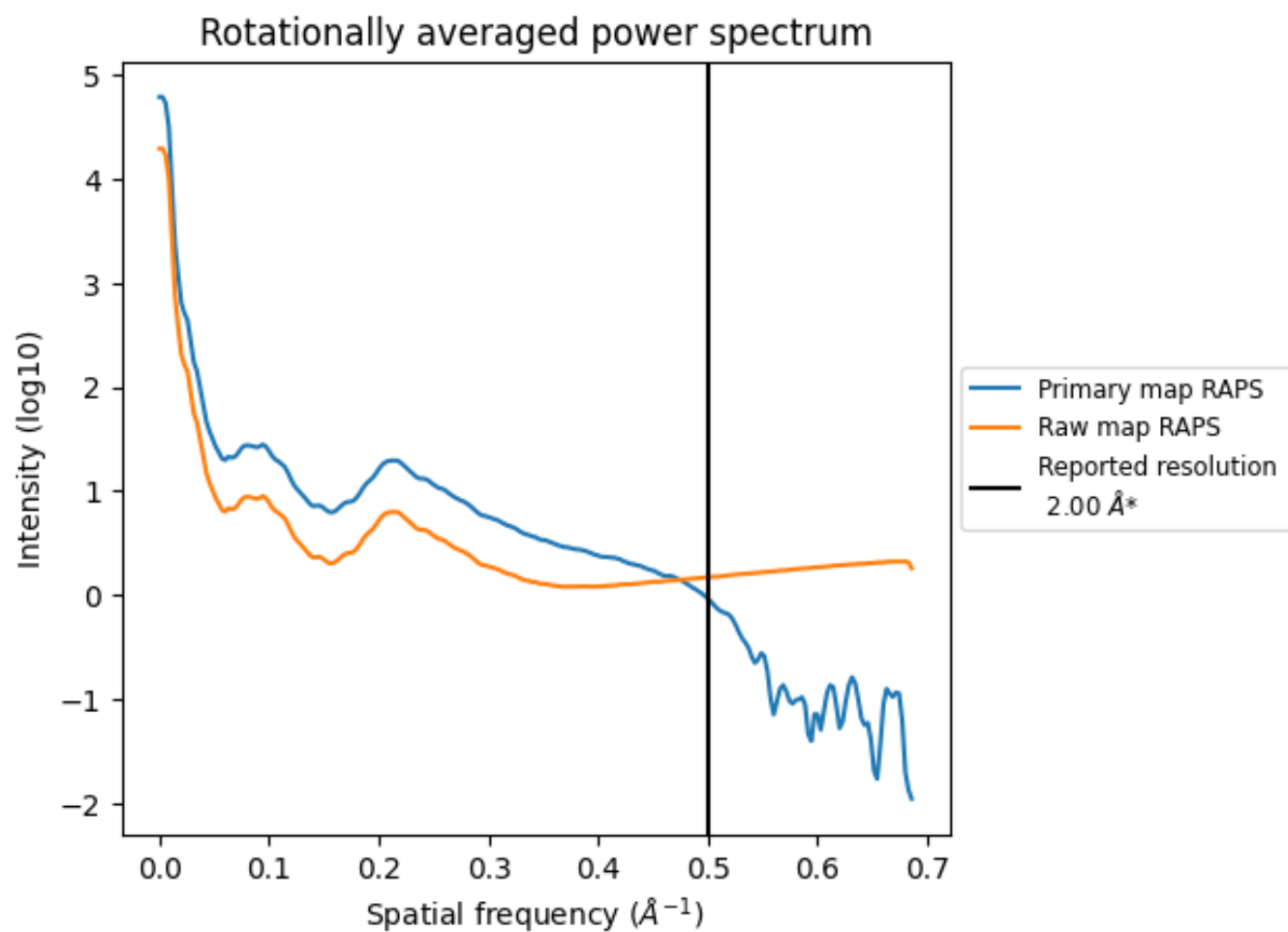
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 144  $\text{nm}^3$ ; this corresponds to an approximate mass of 130 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 [i](#)

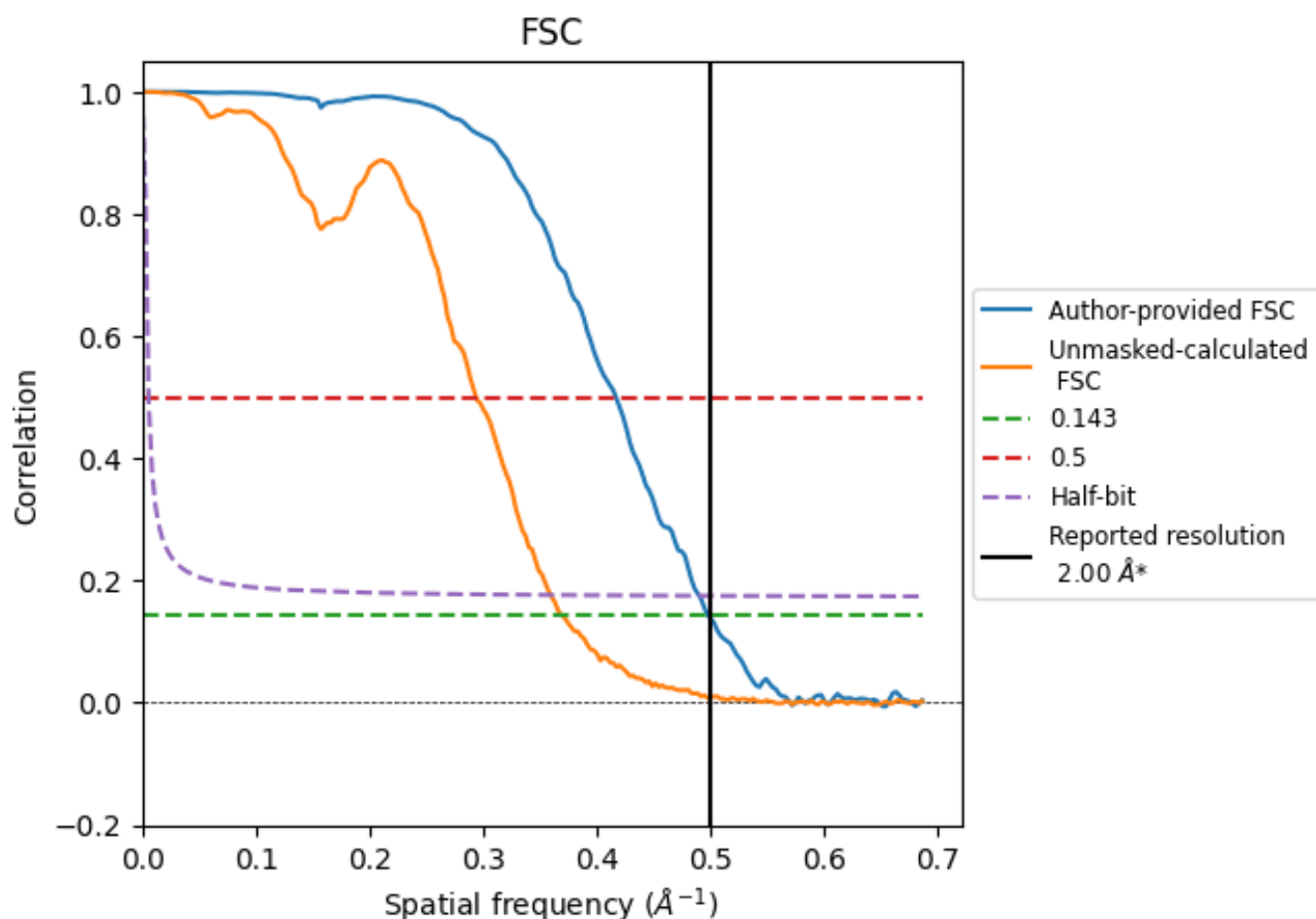


\*Reported resolution corresponds to spatial frequency of 0.500 Å<sup>-1</sup>

## 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 0.500 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

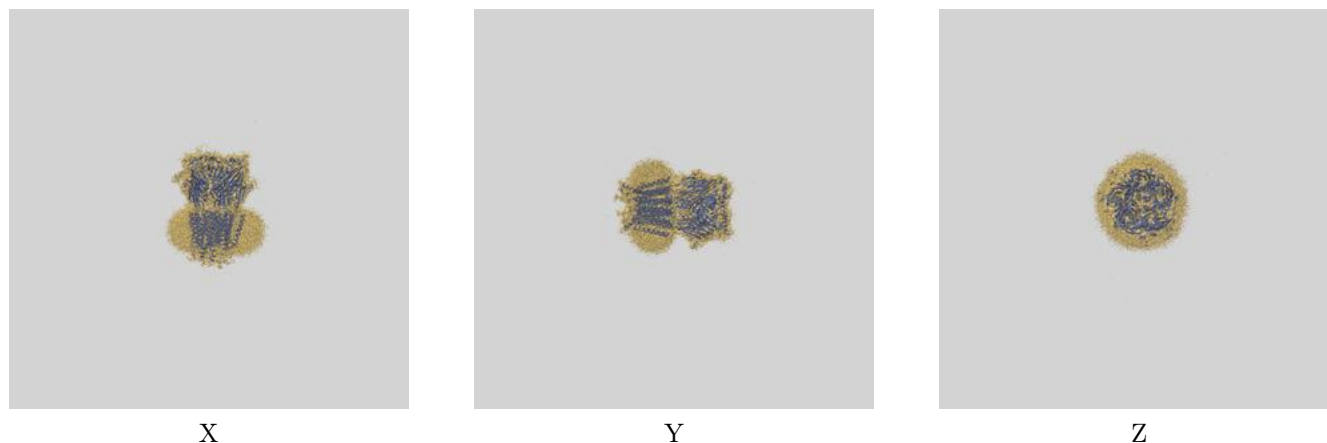
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.00	-	-
Author-provided FSC curve	2.01	2.40	2.04
Unmasked-calculated*	2.71	3.41	2.78

\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.71 differs from the reported value 2.0 by more than 10 %

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

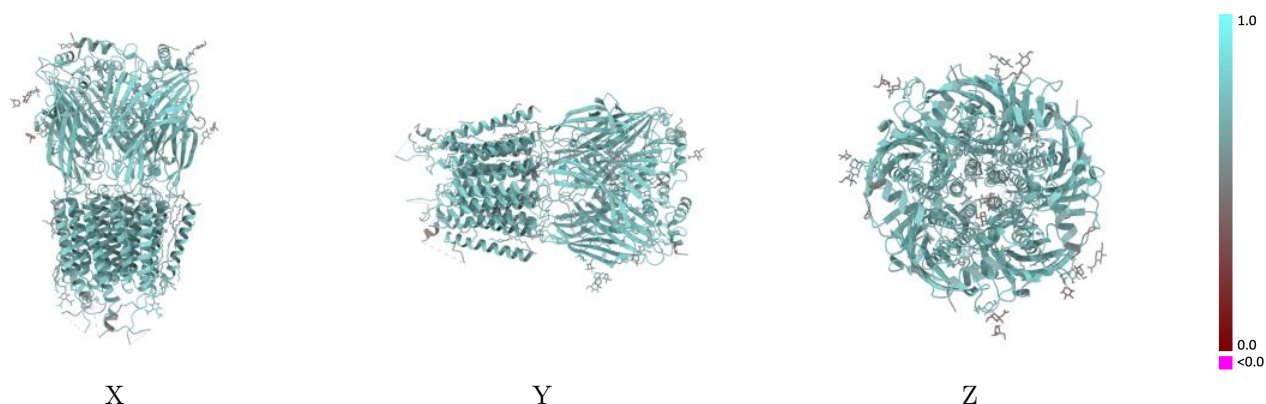
This section contains information regarding the fit between EMDB map EMD-53948 and PDB model 9RGD. Per-residue inclusion information can be found in [section 3](#) on [page 14](#).

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



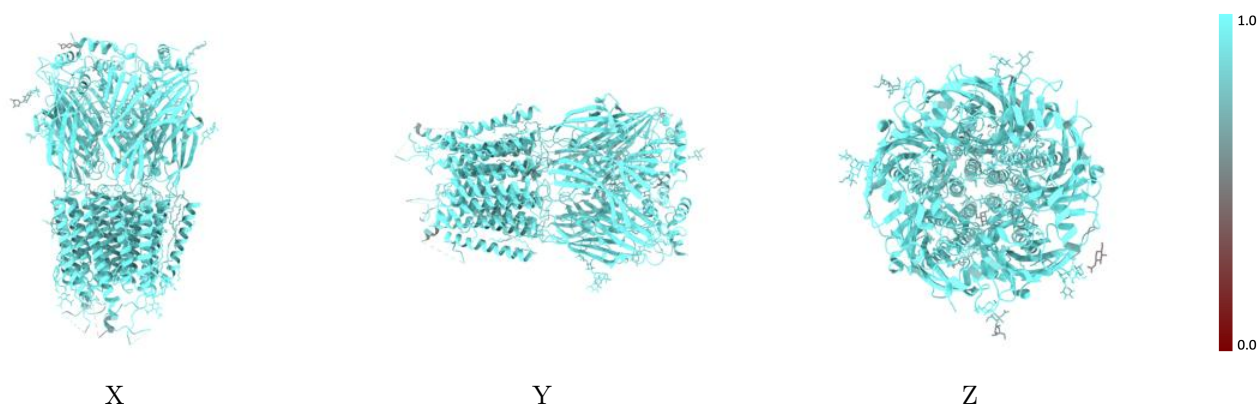
The images above show the 3D surface view of the map at the recommended contour level 0.0025 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



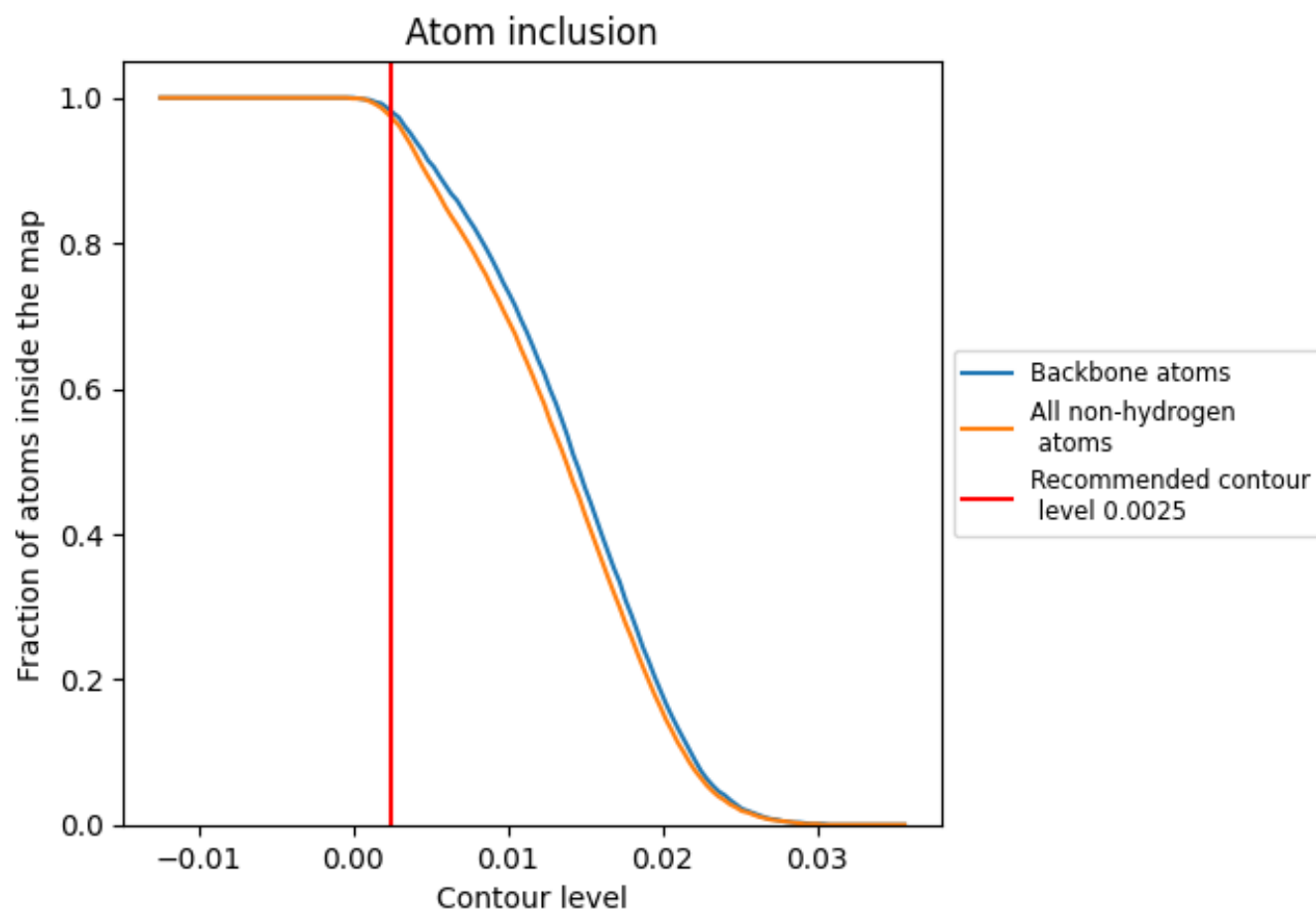
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0025).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 97% 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 (0.0025) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div><div></div></div> 0.9730	<div><div></div></div> 0.7090
A	<div><div></div></div> 0.9740	<div><div></div></div> 0.7070
B	<div><div></div></div> 0.9750	<div><div></div></div> 0.7150
C	<div><div></div></div> 0.9790	<div><div></div></div> 0.7190
D	<div><div></div></div> 0.9730	<div><div></div></div> 0.7140
E	<div><div></div></div> 0.9730	<div><div></div></div> 0.7090
F	<div><div></div></div> 0.9660	<div><div></div></div> 0.6360
G	<div><div></div></div> 0.9720	<div><div></div></div> 0.6180
H	<div><div></div></div> 0.8460	<div><div></div></div> 0.5300
I	<div><div></div></div> 0.9290	<div><div></div></div> 0.5380
J	<div><div></div></div> 0.8470	<div><div></div></div> 0.5500
K	<div><div></div></div> 0.9580	<div><div></div></div> 0.5720
L	<div><div></div></div> 0.7690	<div><div></div></div> 0.4880

