



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 25, 2026 – 05:34 PM EDT

PDB ID : 6TSP / pdb_00006tsp
Title : Marasmius oreades agglutinin (MOA) inhibited by zinc
Authors : Cordara, G.; Manna, D.; Krengel, U.
Deposited on : 2019-12-21
Resolution : 1.85 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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/XrayValidationReportHelp>

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:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

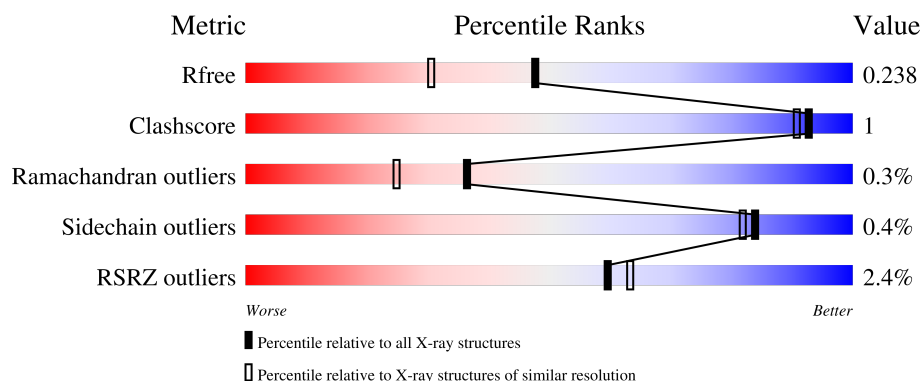
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	3428 (1.86-1.86)
Clashscore	190562	3579 (1.86-1.86)
Ramachandran outliers	187476	3553 (1.86-1.86)
Sidechain outliers	187428	3553 (1.86-1.86)
RSRZ outliers	180081	3429 (1.86-1.86)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AAA	293	2% 93% 7%
2	A	3	67% 33%
2	B	3	100%
3	C	3	67% 33%

2 Entry composition [i](#)

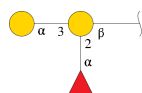
There are 9 unique types of molecules in this entry. The entry contains 2623 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Agglutinin.

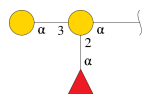
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AAA	292	Total	C	N	O	S	0	12	0
			2354	1502	392	452	8			

- Molecule 2 is an oligosaccharide called alpha-L-fucopyranose-(1-2)-[alpha-D-galactopyranoside-(1-3)]beta-D-galactopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
2	A	3	Total	C	O	0	0	0
			33	18	15			
2	B	3	Total	C	O	0	0	0
			33	18	15			

- Molecule 3 is an oligosaccharide called alpha-L-fucopyranose-(1-2)-[alpha-D-galactopyranoside-(1-3)]alpha-D-galactopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
3	C	3	Total	C	O	0	0	0
			33	18	15			

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	AAA	1	Total	C	O	0	0
			4	2	2		
4	AAA	1	Total	C	O	0	0
			4	2	2		
4	AAA	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C_2H_6OS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	AAA	1	Total	C	O	S	0	0
			4	2	1	1		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	AAA	1	Total	C	O	S	0	0
			4	2	1	1		
5	AAA	1	Total	C	O	S	0	0
			4	2	1	1		

- Molecule 6 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	AAA	1	Total	Na	0	0
			1	1		

- Molecule 7 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	AAA	2	Total	Ca	0	0
			2	2		

- Molecule 8 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

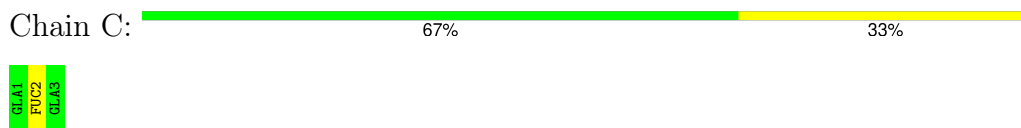
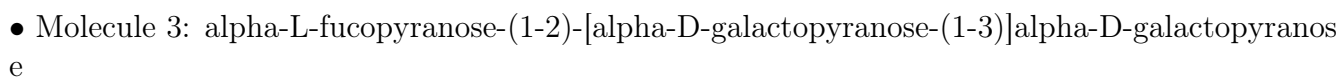
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	AAA	6	Total	Zn	0	0
			6	6		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	AAA	137	Total	O	0	0
			137	137		

i

- Molecule 1: Agglutinin



4 Data and refinement statistics

Property	Value	Source
Space group	P 63 2 2	Depositor
Cell constants a, b, c, α , β , γ	121.07Å 121.07Å 99.62Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	46.40 – 1.85 46.40 – 1.85	Depositor EDS
% Data completeness (in resolution range)	94.6 (46.40-1.85) 95.2 (46.40-1.85)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 1.84Å)	Xtriage
Refinement program	REFMAC 7.0.078	Depositor
R, R_{free}	0.207 , 0.235 0.213 , 0.238	Depositor DCC
R_{free} test set	1872 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	34.0	Xtriage
Anisotropy	0.038	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 25.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2623	wwPDB-VP
Average B, all atoms (Å ²)	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.85% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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: GAL, DMS, EDO, NA, ZN, GLA, CA, FUC

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	AAA	1.19	4/2444 (0.2%)	1.07	0/3328

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AAA	0	2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AAA	45	HIS	C-O	5.89	1.31	1.24
1	AAA	133	ALA	C-O	5.16	1.29	1.23
1	AAA	158	VAL	C-O	5.13	1.29	1.24
1	AAA	156	MET	C-O	5.08	1.30	1.24

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AAA	242	PHE	Sidechain
1	AAA	60	PHE	Peptide

5.2 Too-close contacts ⓘ

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	AAA	2354	0	2204	7	0
2	A	33	0	30	0	0
2	B	33	0	30	0	0
3	C	33	0	30	0	0
4	AAA	12	0	17	0	0
5	AAA	12	0	18	0	0
6	AAA	1	0	0	0	0
7	AAA	2	0	0	0	0
8	AAA	6	0	0	0	0
9	AAA	137	0	0	2	0
All	All	2623	0	2329	7	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 1.

The worst 5 of 7 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:AAA:203:LEU:N	1:AAA:204:PRO:CD	2.66	0.58
1:AAA:244:GLY:HA3	1:AAA:261:PHE:CE1	2.42	0.54
1:AAA:4:ARG:NH2	1:AAA:162:GLU:OE2	2.42	0.52
1:AAA:94:THR:O	1:AAA:96:PRO:HD3	2.12	0.49
1:AAA:169[B]:ARG:NH2	9:AAA:403:HOH:O	2.45	0.49

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 X-ray entries followed by that with respect to entries of similar resolution.

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	AAA	302/293 (103%)	285 (94%)	15 (5%)	2 (1%)	18	8

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AAA	40[A]	ASP
1	AAA	40[B]	ASP

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 X-ray entries followed by that with respect to entries of similar resolution.

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	AAA	245/234 (105%)	244 (100%)	1 (0%)	84	82

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AAA	2	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 ⓘ

9 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	$\# Z > 2$
2	GAL	A	1	2	12,12,12	0.94	0	17,17,17	0.79	0
2	FUC	A	2	2	10,10,11	0.77	0	14,14,16	0.54	0
2	GLA	A	3	2	11,11,12	1.01	1 (9%)	15,15,17	0.65	0
2	GAL	B	1	2	12,12,12	0.81	0	17,17,17	0.60	0
2	FUC	B	2	2	10,10,11	0.59	0	14,14,16	0.70	0
2	GLA	B	3	2	11,11,12	0.71	0	15,15,17	0.47	0
3	GLA	C	1	3	12,12,12	0.84	0	17,17,17	0.61	0
3	FUC	C	2	3	10,10,11	0.66	0	14,14,16	0.83	1 (7%)
3	GLA	C	3	3	11,11,12	0.85	0	15,15,17	0.39	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
2	GAL	A	1	2	-	2/2/22/22	0/1/1/1
2	FUC	A	2	2	-	-	0/1/1/1
2	GLA	A	3	2	-	0/2/19/22	0/1/1/1
2	GAL	B	1	2	-	1/2/22/22	0/1/1/1
2	FUC	B	2	2	-	-	0/1/1/1
2	GLA	B	3	2	-	0/2/19/22	0/1/1/1
3	GLA	C	1	3	-	2/2/22/22	0/1/1/1
3	FUC	C	2	3	-	-	0/1/1/1
3	GLA	C	3	3	-	0/2/19/22	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	3	GLA	C2-C3	2.85	1.56	1.52

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2	FUC	C1-C2-C3	2.18	112.83	109.64

There are no chirality outliers.

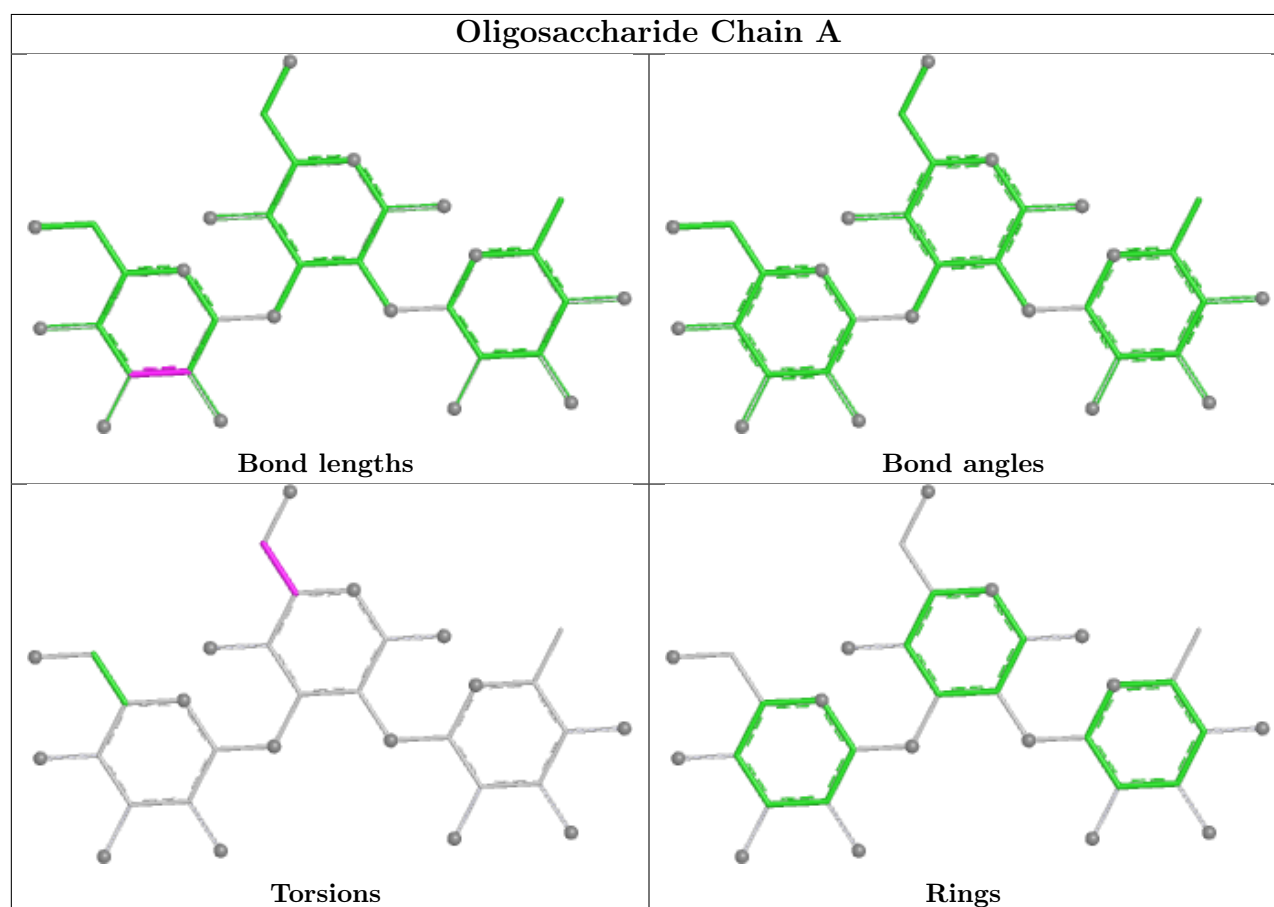
All (5) torsion outliers are listed below:

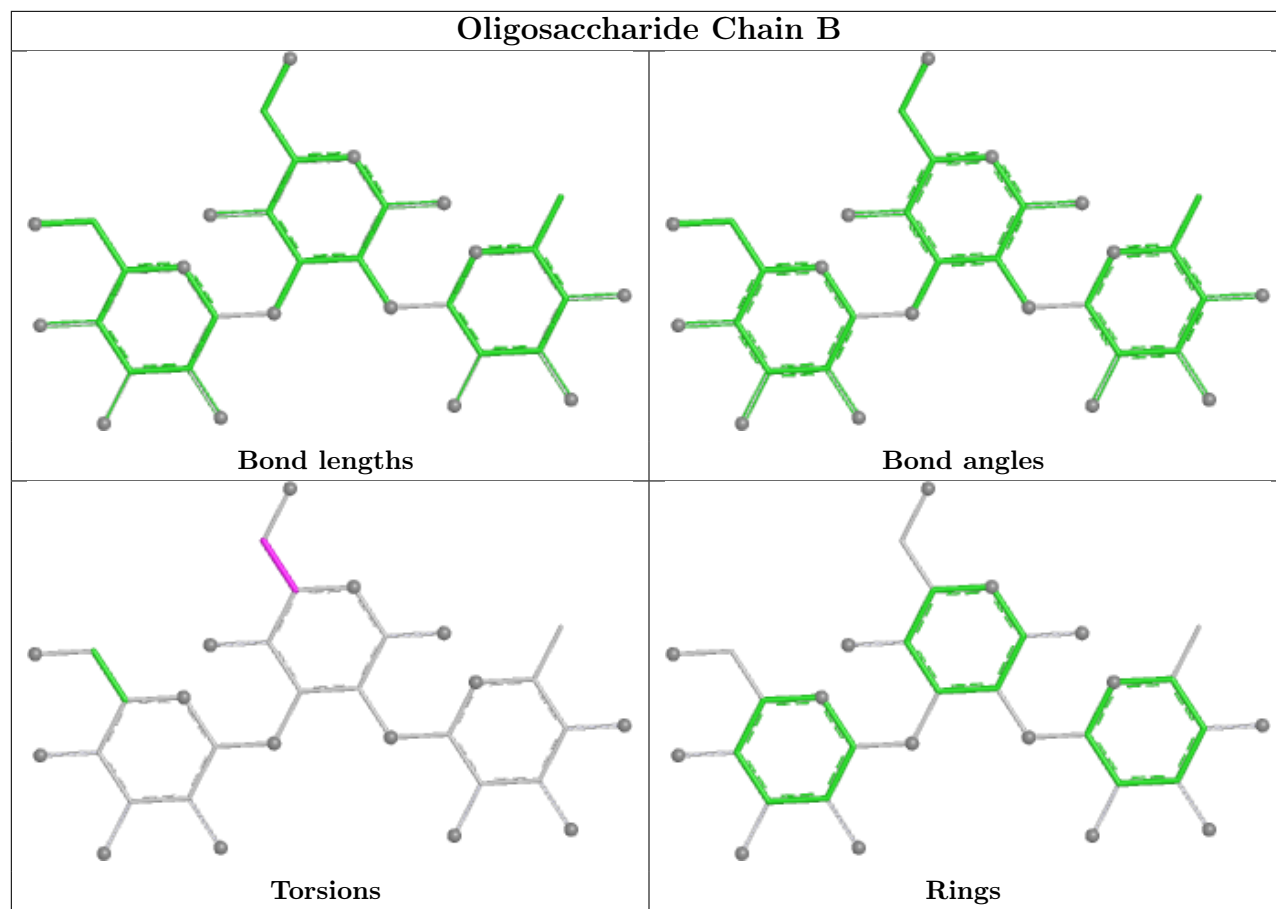
Mol	Chain	Res	Type	Atoms
2	A	1	GAL	C4-C5-C6-O6
2	A	1	GAL	O5-C5-C6-O6
3	C	1	GLA	C4-C5-C6-O6
3	C	1	GLA	O5-C5-C6-O6
2	B	1	GAL	C4-C5-C6-O6

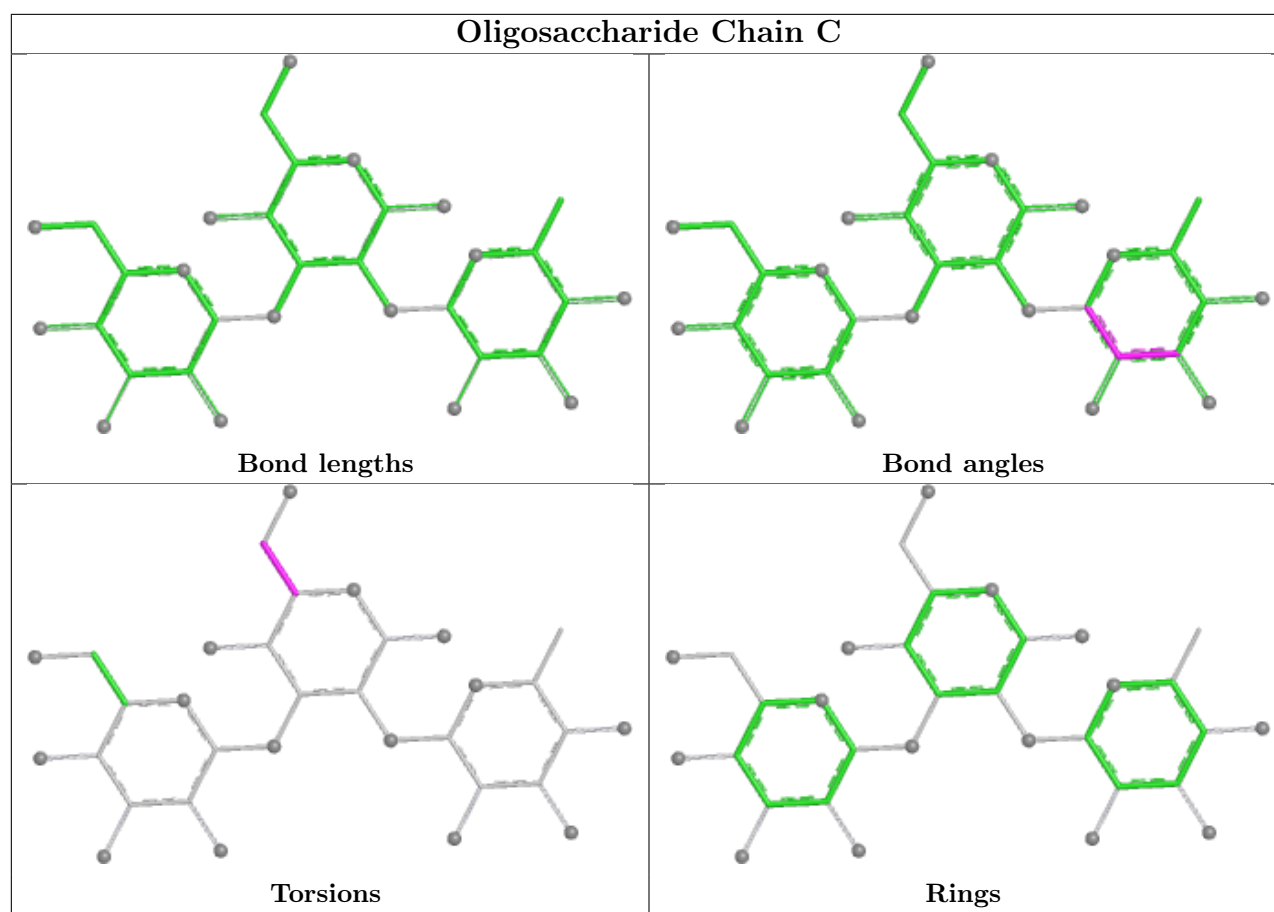
There are no ring outliers.

No monomer is involved in short contacts.

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







5.6 Ligand geometry [i](#)

Of 15 ligands modelled in this entry, 9 are monoatomic - leaving 6 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	$\# Z > 2$
4	EDO	AAA	303	7	3,3,3	0.18	0	2,2,2	0.08	0
5	DMS	AAA	305	-	3,3,3	0.64	0	3,3,3	0.11	0
5	DMS	AAA	304	-	3,3,3	0.35	0	3,3,3	0.11	0
4	EDO	AAA	301	-	3,3,3	0.12	0	2,2,2	0.09	0
5	DMS	AAA	306	-	3,3,3	0.23	0	3,3,3	0.09	0
4	EDO	AAA	302	-	3,3,3	0.38	0	2,2,2	0.11	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
4	EDO	AAA	302	-	-	0/1/1/1	-
4	EDO	AAA	303	7	-	1/1/1/1	-
4	EDO	AAA	301	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	AAA	303	EDO	O1-C1-C2-O2
4	AAA	301	EDO	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

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 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AAA	292/293 (99%)	0.21	7 (2%) 59 63	16, 33, 44, 67	12 (4%)

The worst 5 of 7 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AAA	55[A]	ASN	4.5
1	AAA	169[A]	ARG	4.4
1	AAA	252	ALA	2.8
1	AAA	265[A]	LYS	2.6
1	AAA	2	SER	2.2

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

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

6.3 Carbohydrates [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 0.9’ lists the number of atoms with occupancy less than 0.9.

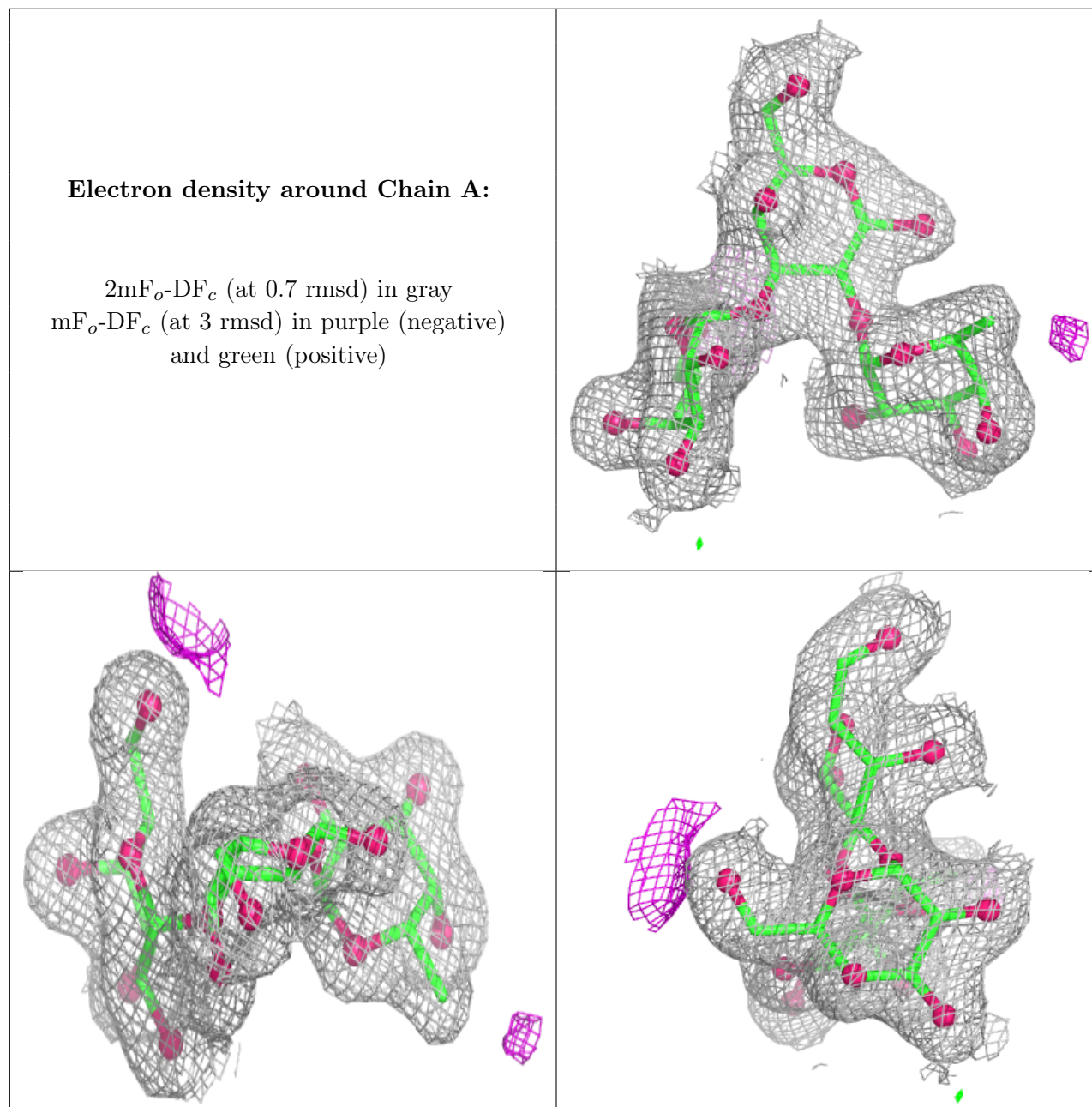
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GAL	A	1	12/12	-	-	28,30,32,33	0
2	FUC	A	2	10/11	-	-	27,29,31,31	0
2	GLA	A	3	11/12	-	-	27,29,32,32	0
3	FUC	C	2	10/11	0.81	0.15	41,51,57,58	0
3	GLA	C	3	11/12	0.91	0.10	29,33,40,42	0
2	GAL	B	1	12/12	0.95	0.07	36,51,54,71	0
3	GLA	C	1	12/12	-	-	28,33,38,40	0

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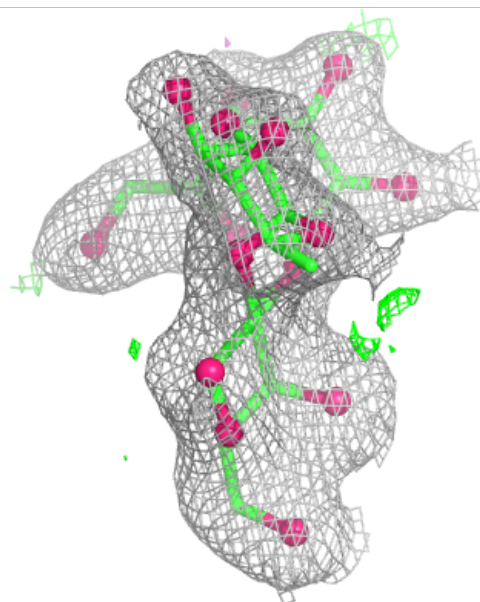
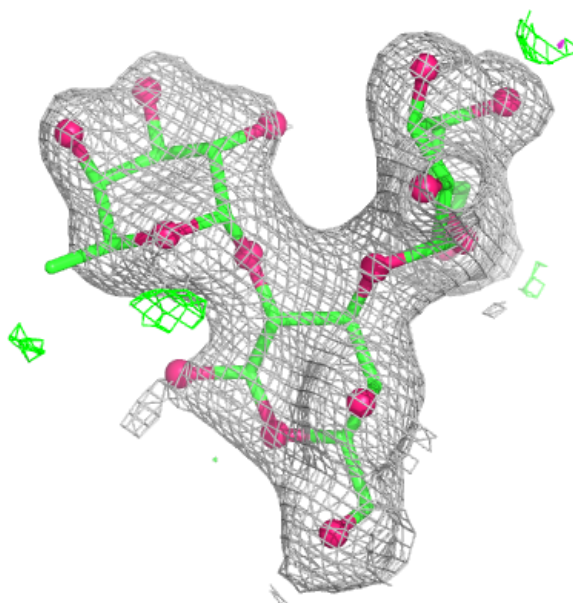
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	FUC	B	2	10/11	0.96	0.07	59,68,72,78	0
2	GLA	B	3	11/12	0.96	0.07	44,45,48,50	0

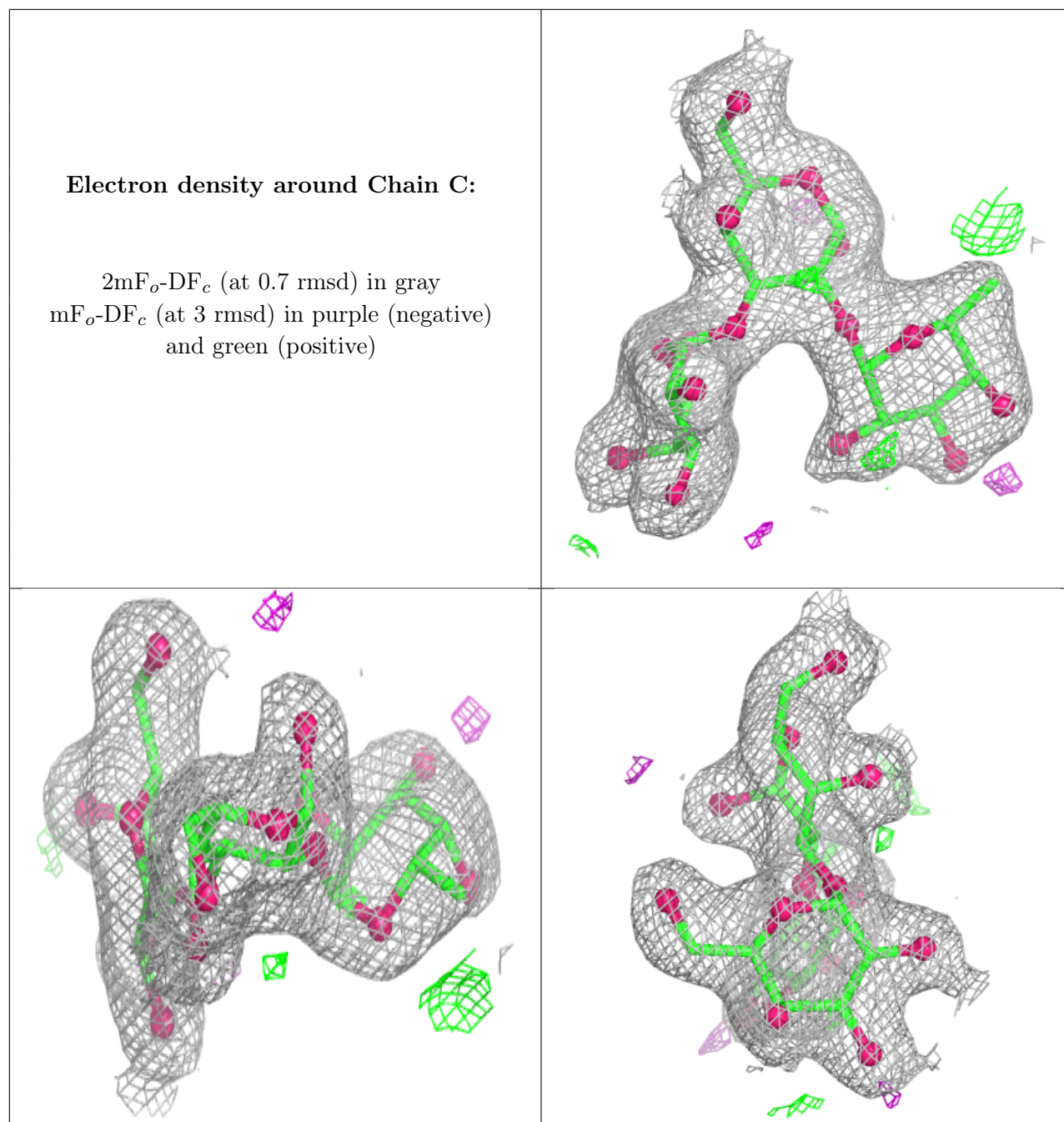
The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.



Electron density around Chain B:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
8	ZN	AAA	315	1/1	0.87	0.11	55,55,55,55	0

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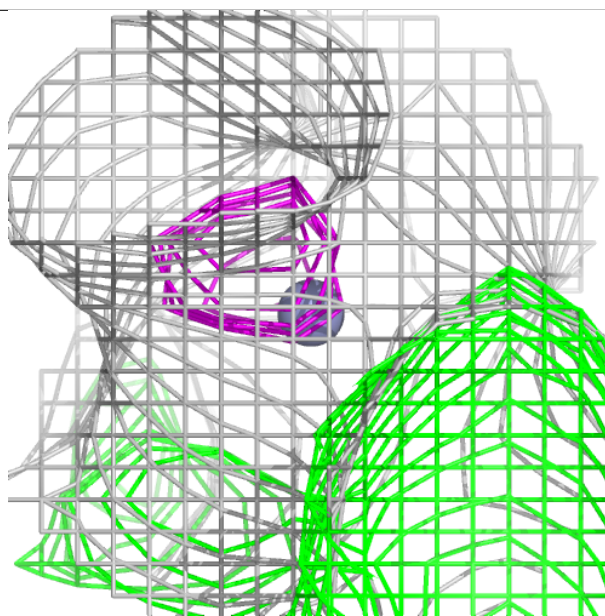
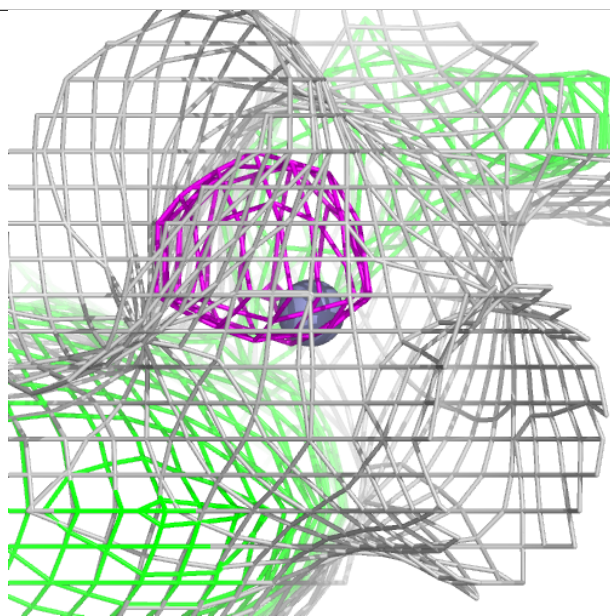
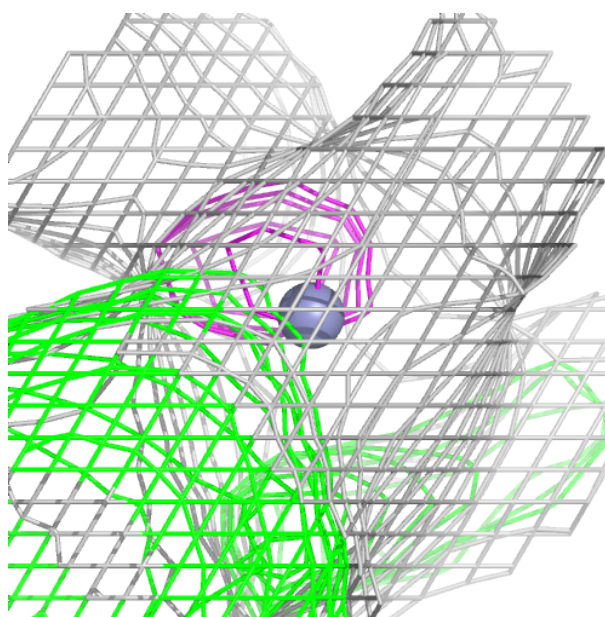
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
8	ZN	AAA	312	1/1	0.90	0.10	53,53,53,53	0
8	ZN	AAA	310	1/1	0.93	0.08	43,43,43,43	1
4	EDO	AAA	303	4/4	0.93	0.13	50,56,59,64	0
5	DMS	AAA	305	4/4	0.93	0.16	41,42,49,50	3
8	ZN	AAA	313	1/1	0.94	0.11	38,38,38,38	0
4	EDO	AAA	302	4/4	0.94	0.12	31,38,39,42	0
4	EDO	AAA	301	4/4	0.95	0.09	38,39,41,41	0
5	DMS	AAA	306	4/4	0.95	0.15	28,37,40,43	4
8	ZN	AAA	311	1/1	0.96	0.11	47,47,47,47	0
8	ZN	AAA	314	1/1	0.96	0.10	30,30,30,30	0
6	NA	AAA	307	1/1	0.96	0.07	51,51,51,51	0
5	DMS	AAA	304	4/4	0.98	0.10	33,35,38,40	1
7	CA	AAA	309	1/1	0.98	0.03	35,35,35,35	0
7	CA	AAA	308	1/1	0.99	0.03	30,30,30,30	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

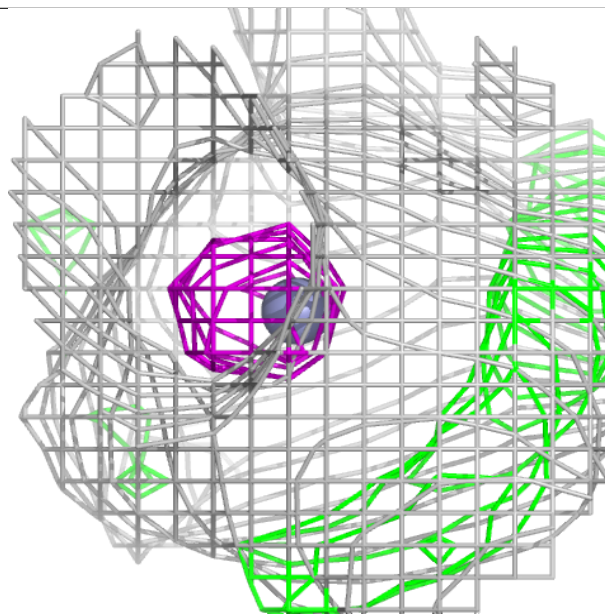
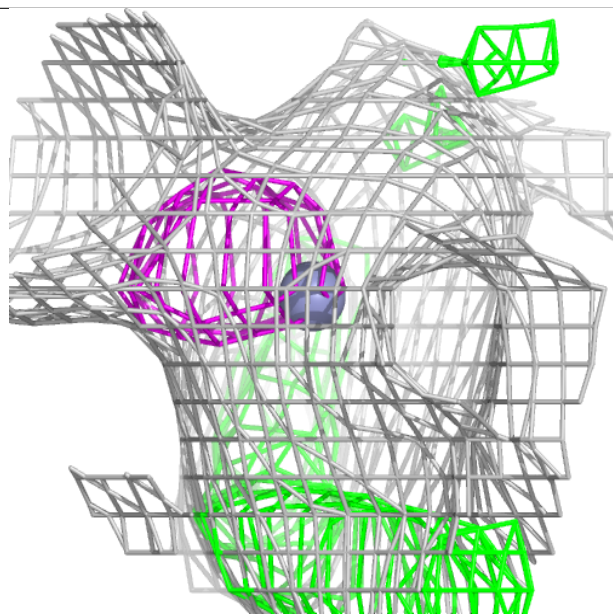
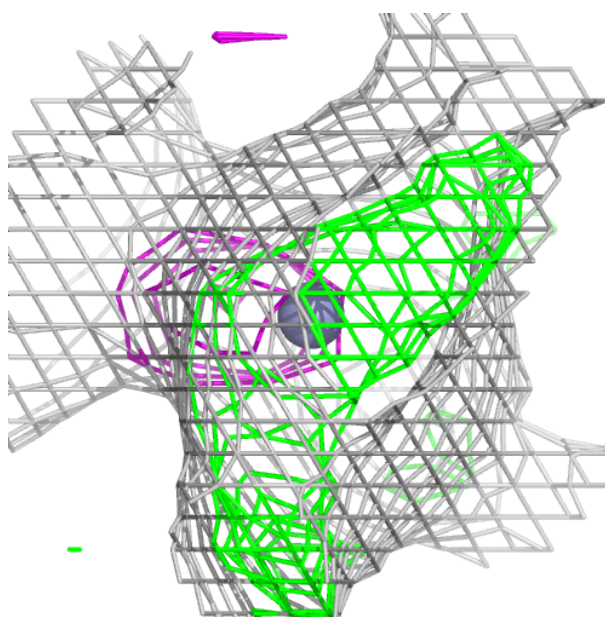
Electron density around ZN AAA 315:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



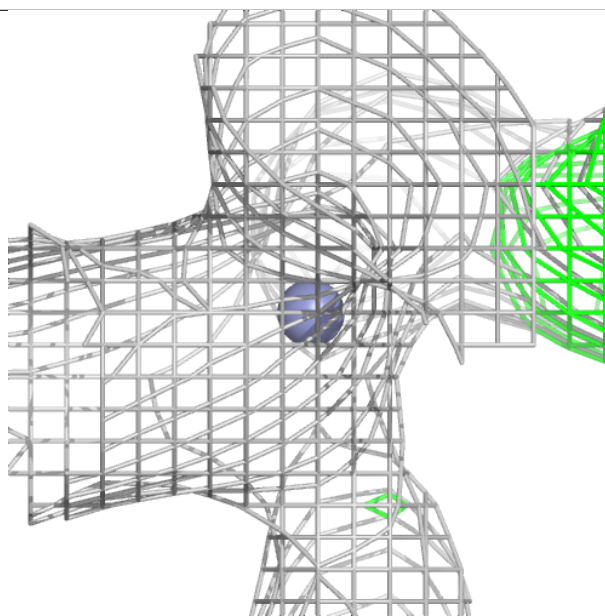
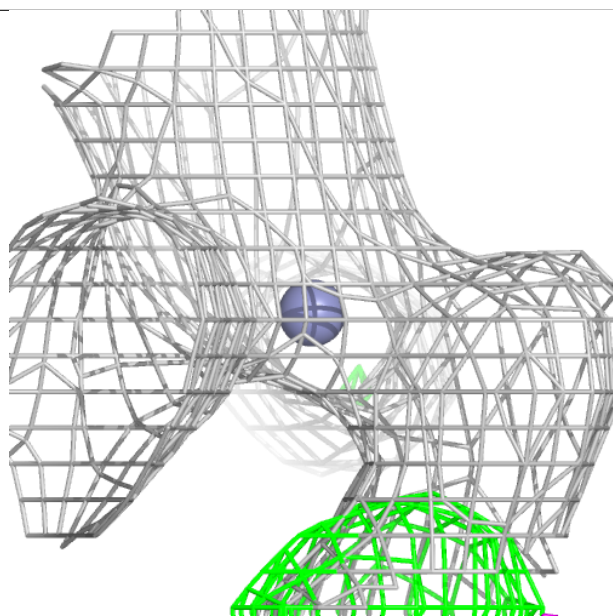
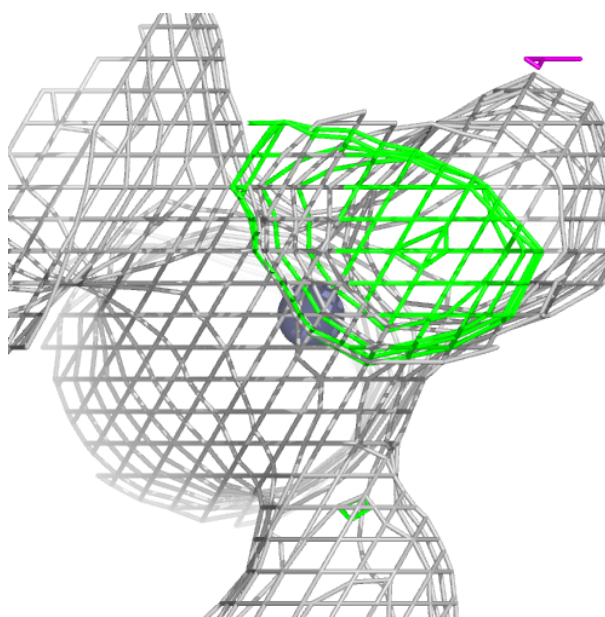
Electron density around ZN AAA 312:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



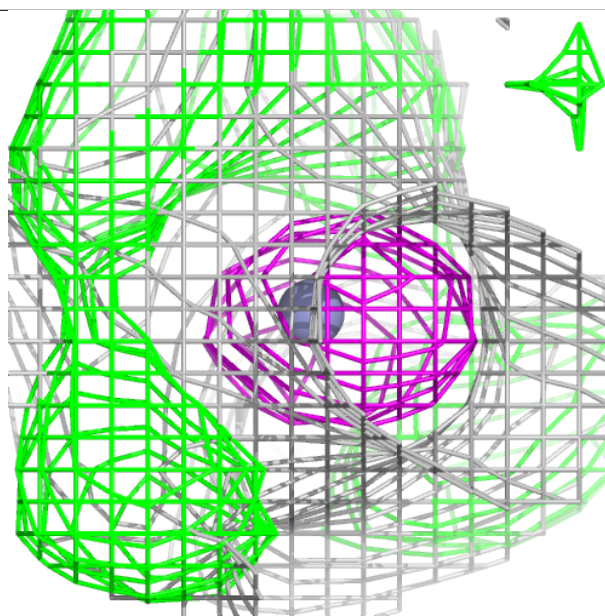
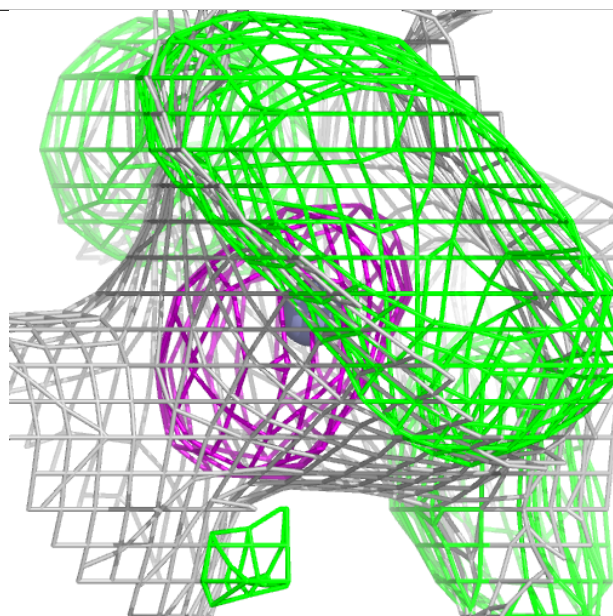
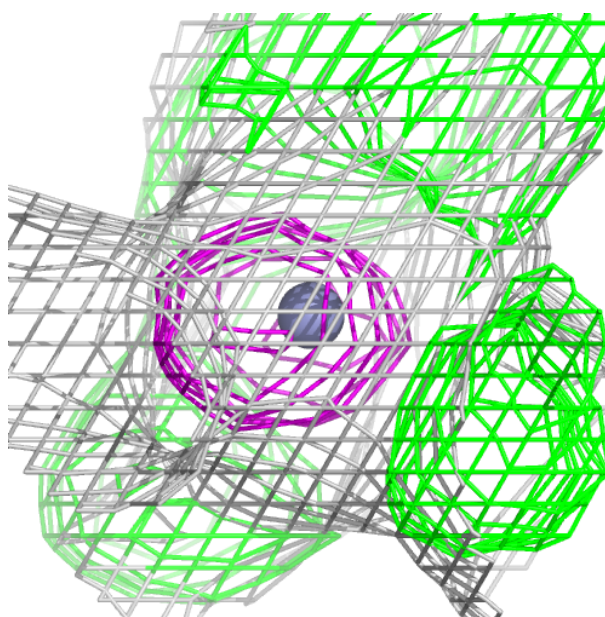
Electron density around ZN AAA 310:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



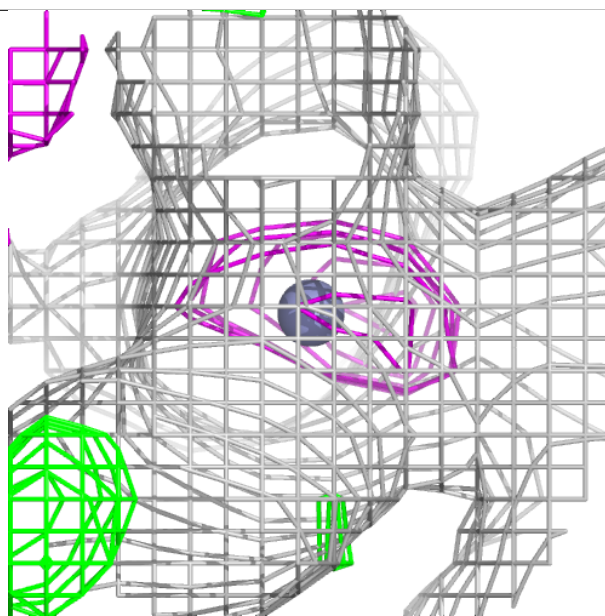
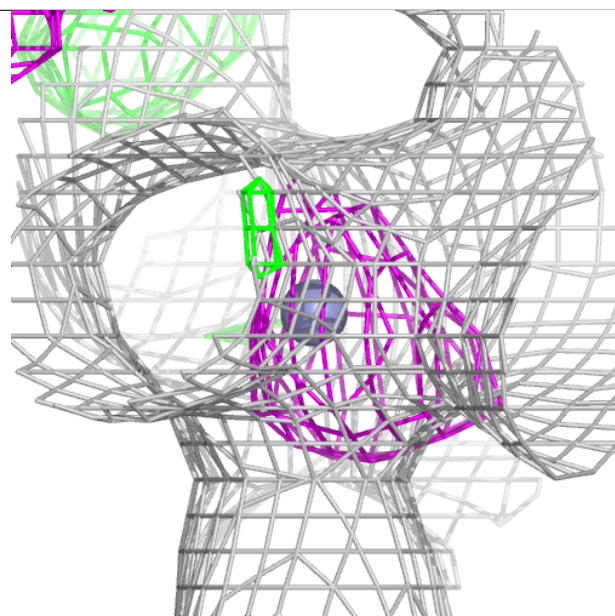
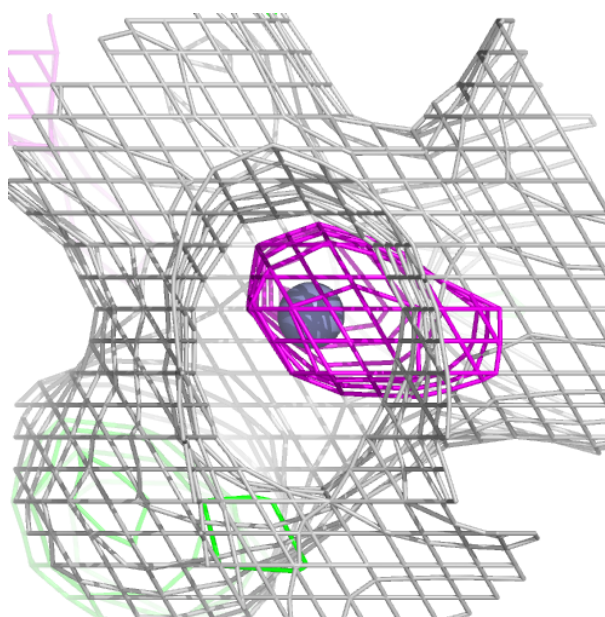
Electron density around ZN AAA 313:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



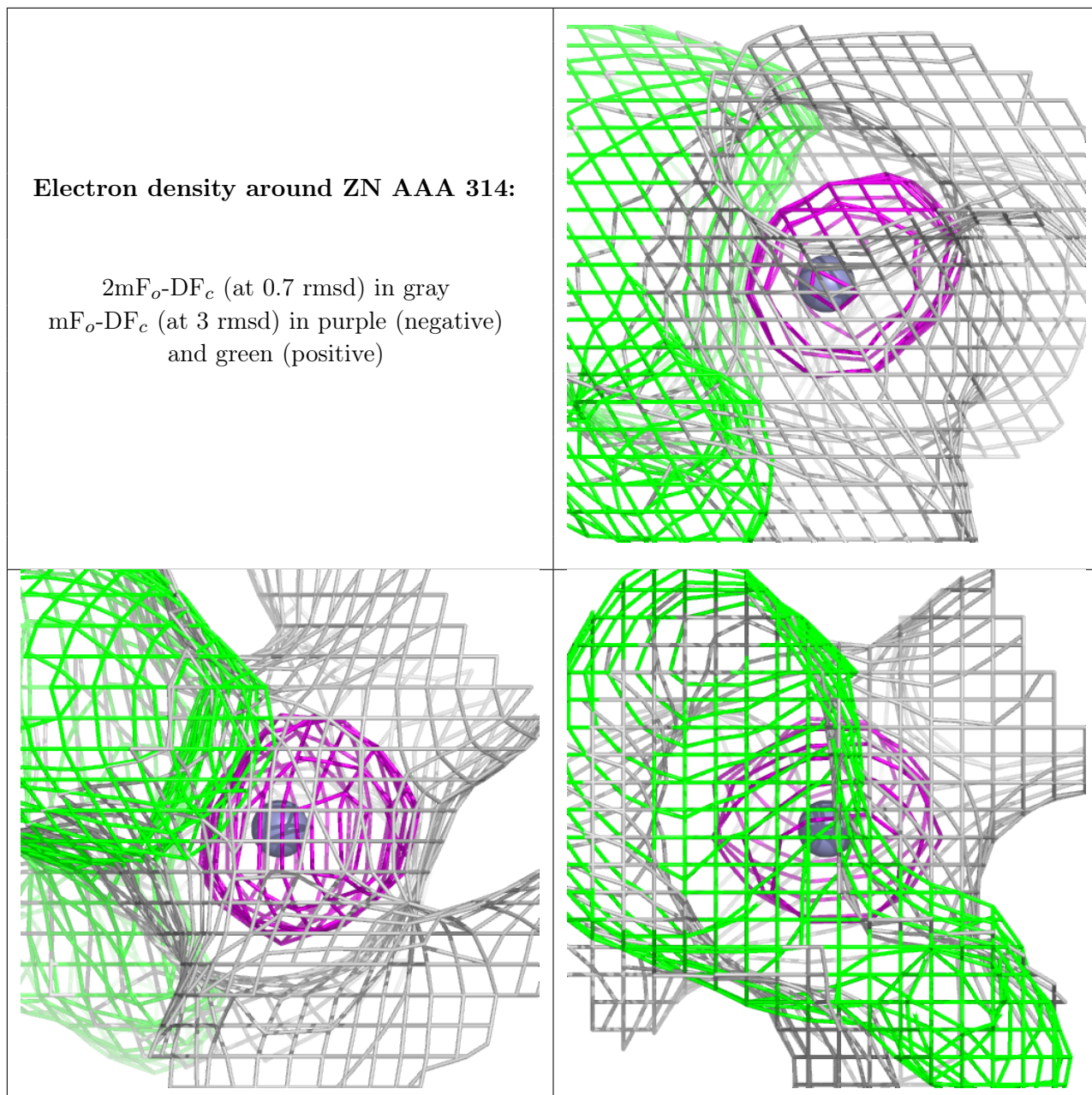
Electron density around ZN AAA 311:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around ZN AAA 314:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.