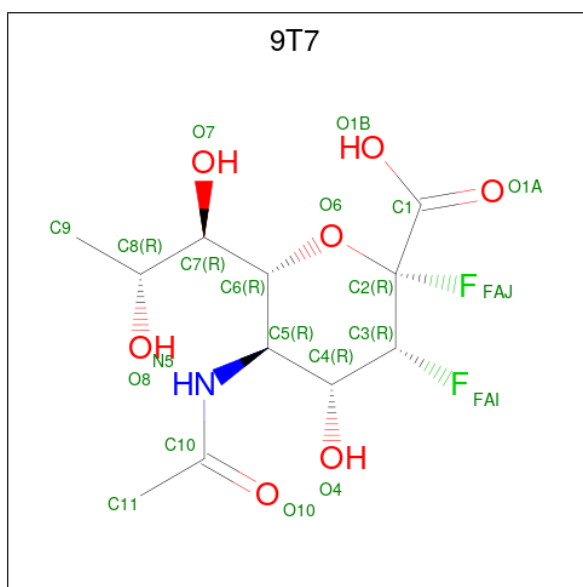
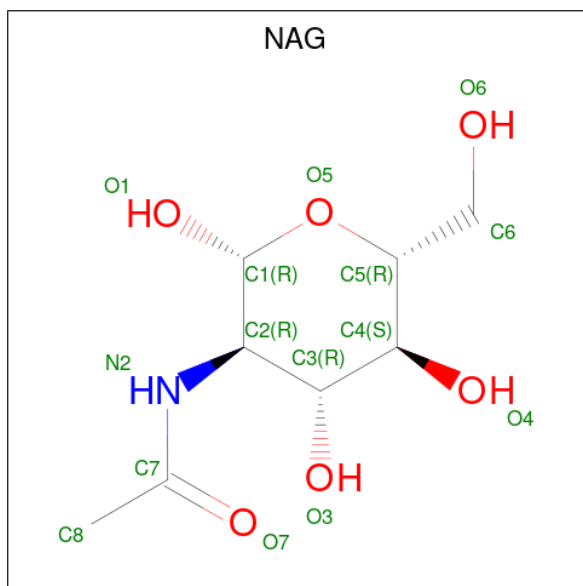




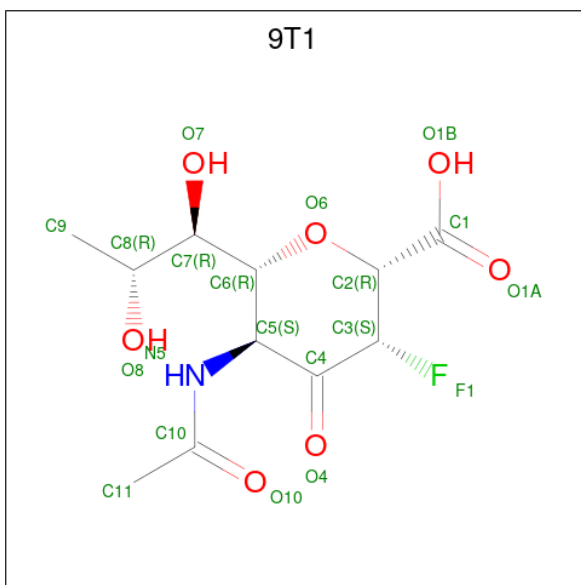
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total	C	F	N	O	0	0
			21	11	2	1	7		

- Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 6 is CALCIUM ION (CCD ID: CA) (formula: Ca).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
8	A	1	Total	C	F	N	O	0	1
			20	11	1	1	7		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	352	Total	O	0	0
			352	352		

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: MAN, 9TM, NAG, BMA, CA, 9T1, 9T7

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	1.07	0/3226	0.98	2/4391 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	181	SER	N-CA-C	5.38	116.98	108.96
1	A	309	VAL	N-CA-C	-5.11	106.70	111.45

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	3094	0	2925	36	0
2	B	105	0	88	4	0
3	C	28	0	25	0	0
4	A	21	0	0	0	0
5	A	14	0	13	0	0
6	A	1	0	0	0	0
7	A	20	0	0	0	0
8	A	20	0	0	2	0
9	A	352	0	0	15	2

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	3655	0	3051	41	2

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 (41) 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:A:82[B]:ARG:HH11	1:A:82[B]:ARG:HG3	1.12	1.07
1:A:305[B]:ARG:CZ	9:A:601:HOH:O	2.10	1.00
1:A:316:GLN:NE2	9:A:602:HOH:O	1.93	0.98
1:A:287:GLU:OE1	9:A:601:HOH:O	1.90	0.90
1:A:82[B]:ARG:HH11	1:A:82[B]:ARG:CG	1.92	0.80
1:A:140[B]:ILE:HD11	9:A:635:HOH:O	1.81	0.80
1:A:305[B]:ARG:NH2	9:A:603:HOH:O	1.95	0.79
1:A:285[B]:ARG:NH1	9:A:604:HOH:O	2.15	0.78
1:A:210:ARG:NH2	9:A:605:HOH:O	2.16	0.78
1:A:396:ILE:HG23	1:A:447[B]:MET:HE2	1.72	0.70
1:A:82[B]:ARG:HG3	1:A:82[B]:ARG:NH1	1.93	0.67
1:A:305[B]:ARG:NE	9:A:601:HOH:O	2.19	0.66
1:A:287:GLU:CD	9:A:601:HOH:O	2.35	0.65
1:A:87:LEU:H	1:A:234:HIS:HD2	1.45	0.64
8:A:516[A]:9T1:F1	8:A:516[A]:9T1:O1B	2.09	0.61
1:A:305[B]:ARG:NH1	9:A:603:HOH:O	2.31	0.60
1:A:87:LEU:H	1:A:234:HIS:CD2	2.21	0.58
1:A:396:ILE:HD12	1:A:447[B]:MET:HE3	1.86	0.57
1:A:305[B]:ARG:NH1	9:A:601:HOH:O	2.28	0.56
2:B:7:MAN:H61	2:B:9:MAN:H5	1.86	0.56
1:A:317:TYR:O	9:A:602:HOH:O	2.18	0.56
1:A:275:HIS:HE1	1:A:277:GLU:OE2	1.89	0.55
1:A:396:ILE:HG23	1:A:447[B]:MET:CE	2.36	0.54
2:B:7:MAN:C6	2:B:9:MAN:H5	2.39	0.52
1:A:82[B]:ARG:CG	1:A:82[B]:ARG:NH1	2.60	0.52
2:B:7:MAN:H61	2:B:9:MAN:C5	2.40	0.52
1:A:383:LEU:O	9:A:602:HOH:O	2.19	0.51
1:A:121:TYR:CG	1:A:229:SER:HA	2.47	0.49
1:A:364:ARG:HD2	1:A:375:GLU:OE2	2.14	0.48
1:A:173:ARG:HD3	1:A:210:ARG:NH1	2.31	0.46
1:A:116:VAL:HG22	1:A:140[B]:ILE:HG12	1.99	0.45
1:A:168:THR:H	1:A:171:ASN:ND2	2.15	0.44
1:A:173:ARG:HG3	9:A:939:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:193:ILE:HG12	1:A:206:ILE:HG13	1.98	0.44
1:A:98:HIS:HD2	1:A:99:ILE:O	2.01	0.43
2:B:7:MAN:C6	2:B:9:MAN:C5	2.96	0.42
1:A:428:ILE:O	1:A:429:ARG:HD2	2.20	0.42
1:A:447[B]:MET:HE1	1:A:459:TRP:CD1	2.55	0.42
1:A:424:TYR:CD1	1:A:424:TYR:C	2.98	0.41
1:A:289:THR:HG22	9:A:715:HOH:O	2.21	0.40
1:A:405:TYR:CE1	8:A:516[A]:9T1:C1	3.05	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A:622:HOH:O	9:A:840:HOH:O[16_555]	2.18	0.02
9:A:884:HOH:O	9:A:921:HOH:O[5_555]	2.18	0.02

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 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	A	394/388 (102%)	375 (95%)	19 (5%)	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 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	A	350/341 (103%)	339 (97%)	11 (3%)	35 57

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	149	ILE
1	A	171	ASN
1	A	255	ILE
1	A	334	VAL
1	A	344[A]	ASN
1	A	344[B]	ASN
1	A	358[A]	VAL
1	A	358[B]	VAL
1	A	364	ARG
1	A	436	LYS
1	A	464	LYS

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

Mol	Chain	Res	Type
1	A	98	HIS
1	A	171	ASN
1	A	222	ASN
1	A	234	HIS
1	A	275	HIS
1	A	330	ASN
1	A	345	ASN
1	A	394	GLN
1	A	399	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 ⓘ

11 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	NAG	B	1	1,2	14,14,15	0.89	0	17,19,21	1.94	4 (23%)
2	NAG	B	2	2	14,14,15	0.88	1 (7%)	17,19,21	1.01	0
2	BMA	B	3	2	11,11,12	0.38	0	15,15,17	1.29	2 (13%)
2	MAN	B	4	2	11,11,12	0.68	0	15,15,17	2.32	6 (40%)
2	MAN	B	5	2	11,11,12	0.54	0	15,15,17	1.20	1 (6%)
2	MAN	B	6	2	11,11,12	0.41	0	15,15,17	0.81	0
2	MAN	B	7	2	11,11,12	0.85	0	15,15,17	3.02	8 (53%)
2	MAN	B	8	2	11,11,12	1.19	1 (9%)	15,15,17	2.37	8 (53%)
2	MAN	B	9	2	11,11,12	0.74	0	15,15,17	1.49	4 (26%)
3	NAG	C	1	3,1	14,14,15	0.67	0	17,19,21	1.24	1 (5%)
3	NAG	C	2	3	14,14,15	1.36	3 (21%)	17,19,21	2.25	5 (29%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	B	1	1,2	-	0/6/23/26	0/1/1/1
2	NAG	B	2	2	-	0/6/23/26	0/1/1/1
2	BMA	B	3	2	-	0/2/19/22	0/1/1/1
2	MAN	B	4	2	-	2/2/19/22	0/1/1/1
2	MAN	B	5	2	-	0/2/19/22	0/1/1/1
2	MAN	B	6	2	-	0/2/19/22	0/1/1/1
2	MAN	B	7	2	-	2/2/19/22	0/1/1/1
2	MAN	B	8	2	-	2/2/19/22	0/1/1/1
2	MAN	B	9	2	-	1/2/19/22	0/1/1/1
3	NAG	C	1	3,1	-	1/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAG	C	2	3	-	3/6/23/26	0/1/1/1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2	NAG	C1-C2	2.74	1.56	1.52
3	C	2	NAG	C3-C2	2.54	1.57	1.52
3	C	2	NAG	C2-N2	2.41	1.50	1.46
2	B	8	MAN	C1-C2	2.13	1.57	1.52
2	B	2	NAG	O5-C1	-2.12	1.40	1.43

All (39) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	7	MAN	C1-O5-C5	7.62	122.40	112.19
3	C	2	NAG	C2-N2-C7	6.22	131.23	122.90
2	B	4	MAN	C1-O5-C5	5.00	118.89	112.19
2	B	8	MAN	C2-C3-C4	4.74	119.20	110.86
2	B	1	NAG	C8-C7-N2	-4.47	108.70	116.12
2	B	4	MAN	O2-C2-C1	-4.44	99.07	109.22
2	B	7	MAN	C3-C4-C5	4.10	117.66	110.23
2	B	7	MAN	O5-C5-C6	3.94	115.33	107.66
2	B	1	NAG	C1-C2-N2	-3.60	104.76	110.43
2	B	7	MAN	C1-C2-C3	3.41	114.61	109.64
2	B	7	MAN	O4-C4-C5	-3.36	101.04	109.32
2	B	7	MAN	O4-C4-C3	-3.14	102.97	110.38
2	B	4	MAN	O2-C2-C3	3.12	116.61	110.15
2	B	9	MAN	O5-C5-C6	2.91	113.34	107.66
2	B	8	MAN	C3-C4-C5	-2.88	105.02	110.23
3	C	2	NAG	O7-C7-N2	2.78	126.90	121.98
2	B	8	MAN	O2-C2-C1	2.73	115.47	109.22
2	B	8	MAN	O3-C3-C4	-2.63	104.18	110.38
2	B	8	MAN	O5-C5-C6	2.61	112.73	107.66
2	B	1	NAG	O7-C7-C8	2.60	126.67	122.05
2	B	9	MAN	O2-C2-C3	2.55	115.43	110.15
3	C	1	NAG	C3-C4-C5	-2.50	105.71	110.23
2	B	5	MAN	C1-O5-C5	2.36	115.34	112.19
3	C	2	NAG	O7-C7-C8	-2.34	117.88	122.05
2	B	1	NAG	C1-O5-C5	2.30	115.28	112.19
2	B	9	MAN	C1-O5-C5	-2.27	109.14	112.19
2	B	8	MAN	C1-O5-C5	2.22	115.16	112.19
2	B	4	MAN	O3-C3-C4	-2.16	105.28	110.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	4	MAN	O3-C3-C2	2.13	114.40	110.05
2	B	7	MAN	O2-C2-C1	-2.11	104.38	109.22
3	C	2	NAG	O5-C1-C2	-2.11	108.03	111.29
2	B	7	MAN	C2-C3-C4	-2.08	107.20	110.86
2	B	9	MAN	C1-C2-C3	-2.08	106.61	109.64
3	C	2	NAG	C1-O5-C5	2.07	114.96	112.19
2	B	8	MAN	C1-C2-C3	-2.05	106.67	109.64
2	B	3	BMA	C2-C3-C4	-2.03	107.29	110.86
2	B	4	MAN	O5-C5-C6	-2.03	103.71	107.66
2	B	3	BMA	O6-C6-C5	-2.02	104.45	111.33
2	B	8	MAN	O5-C5-C4	-2.00	105.95	110.83

There are no chirality outliers.

All (11) torsion outliers are listed below:

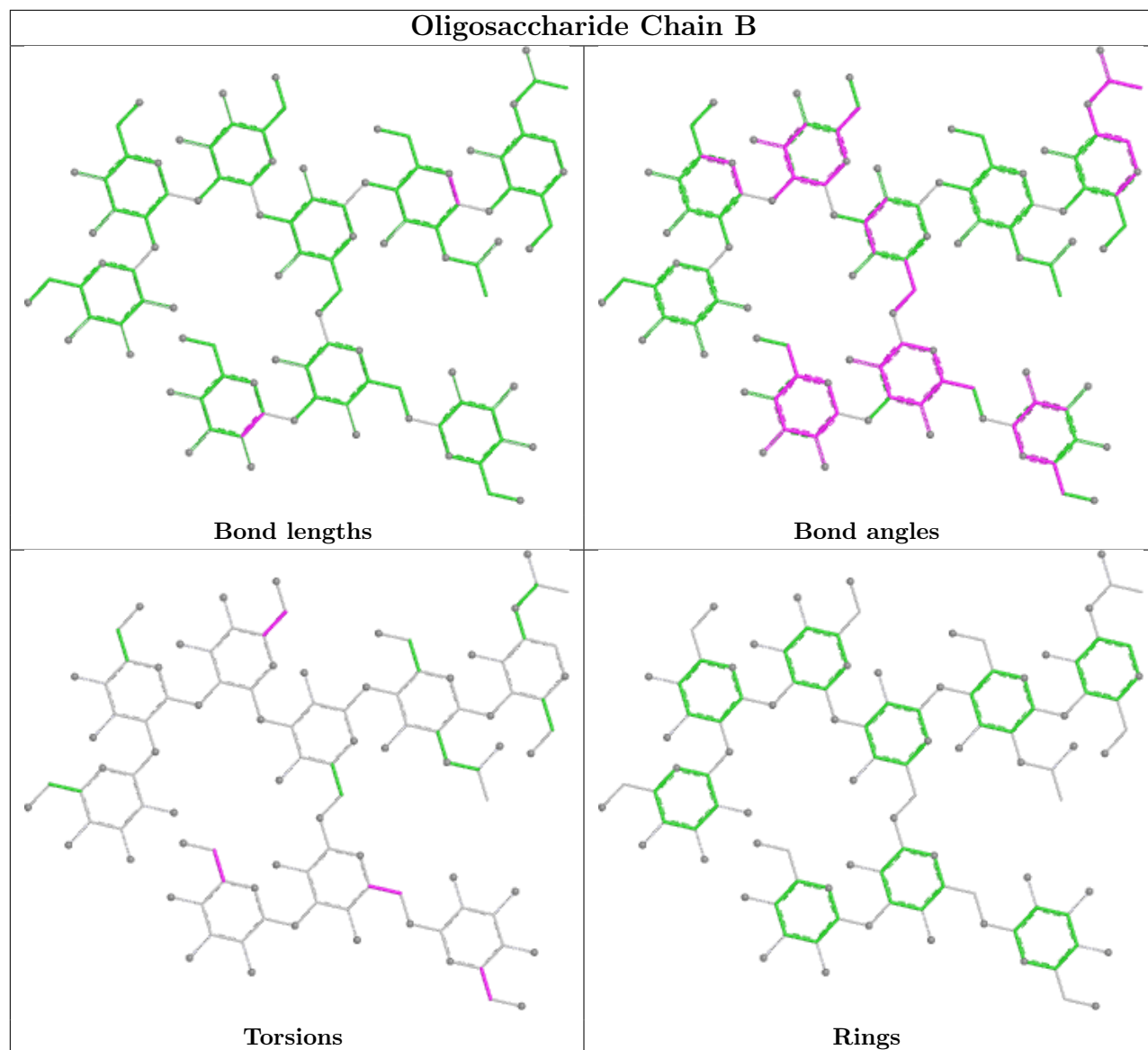
Mol	Chain	Res	Type	Atoms
3	C	2	NAG	C1-C2-N2-C7
3	C	2	NAG	O5-C5-C6-O6
3	C	2	NAG	C4-C5-C6-O6
2	B	7	MAN	C4-C5-C6-O6
2	B	4	MAN	C4-C5-C6-O6
2	B	4	MAN	O5-C5-C6-O6
2	B	8	MAN	C4-C5-C6-O6
2	B	9	MAN	O5-C5-C6-O6
2	B	7	MAN	O5-C5-C6-O6
2	B	8	MAN	O5-C5-C6-O6
3	C	1	NAG	C4-C5-C6-O6

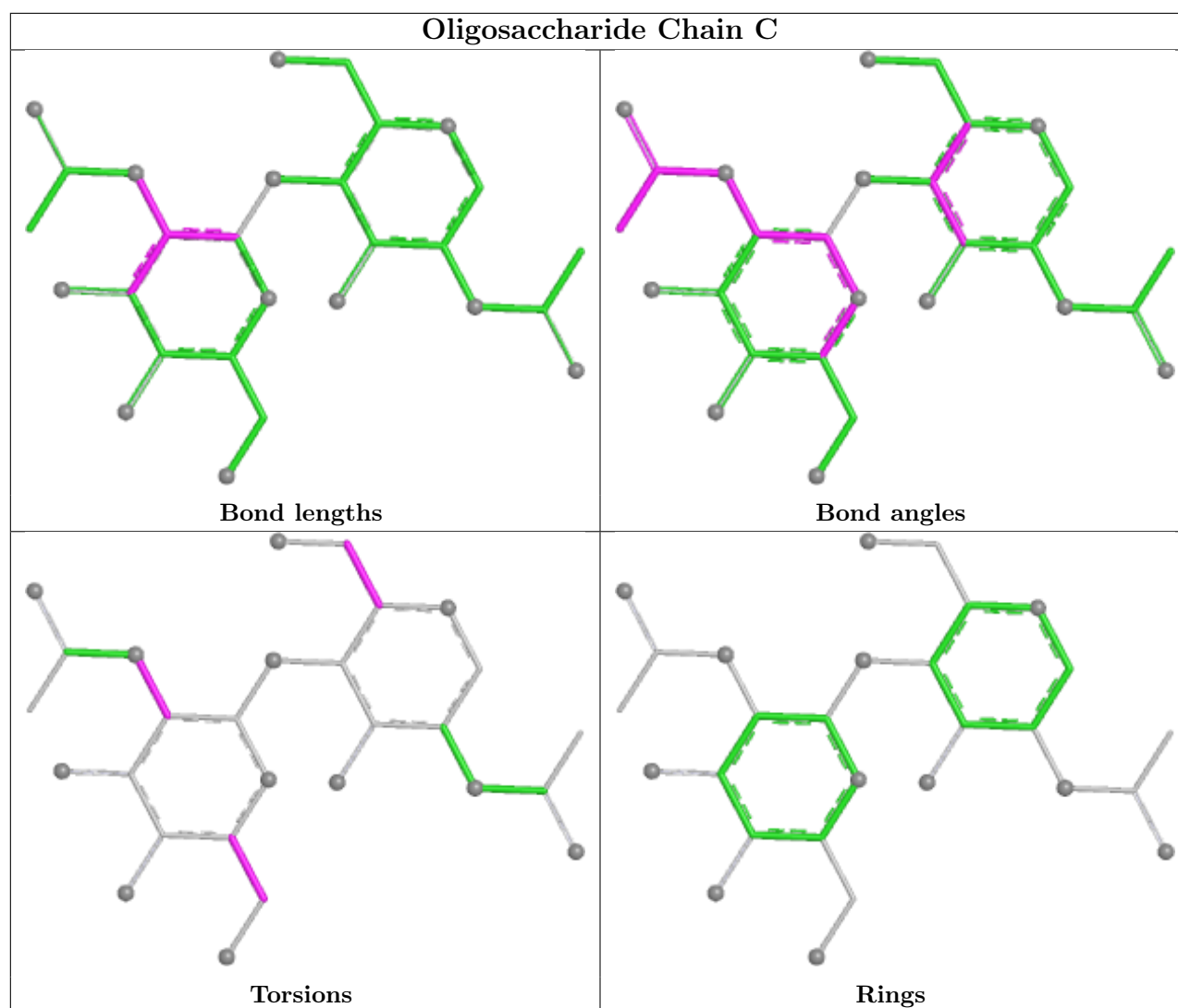
There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	7	MAN	4	0
2	B	9	MAN	4	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 5 ligands modelled in this entry, 1 is monoatomic - leaving 4 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	$\# Z > 2$
8	9T1	A	516[A]	1	19,20,20	0.75	0	19,29,29	1.41	4 (21%)
5	NAG	A	513	1	14,14,15	0.55	0	17,19,21	1.15	1 (5%)
4	9T7	A	501	-	18,21,21	1.12	1 (5%)	19,32,32	1.53	3 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
7	9TM	A	515[B]	-	16,20,20	2.67	1 (6%)	17,29,29	1.73	4 (23%)

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
8	9T1	A	516[A]	1	-	9/16/36/36	0/1/1/1
5	NAG	A	513	1	-	0/6/23/26	0/1/1/1
4	9T7	A	501	-	-	4/13/41/41	0/1/1/1
7	9TM	A	515[B]	-	-	5/12/36/36	0/0/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	A	515[B]	9TM	C1-C2	-10.14	1.37	1.53
4	A	501	9T7	C3-C4	2.77	1.55	1.52

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	A	516[A]	9T1	C5-C4-C3	4.03	122.41	116.12
7	A	515[B]	9TM	O7-C7-C8	3.88	116.53	109.14
4	A	501	9T7	C4-C5-N5	-3.84	103.55	110.62
4	A	501	9T7	C3-C4-C5	3.30	113.73	109.87
7	A	515[B]	9TM	C4-C5-N5	-3.07	104.96	110.62
7	A	515[B]	9TM	C9-C8-C7	2.60	115.30	112.11
7	A	515[B]	9TM	O1A-C1-O1B	-2.23	118.60	123.90
4	A	501	9T7	O10-C10-N5	2.21	125.89	121.98
8	A	516[A]	9T1	O6-C6-C5	2.18	112.32	109.31
8	A	516[A]	9T1	O4-C4-C3	-2.15	118.17	122.25
5	A	513	NAG	O4-C4-C3	-2.08	105.47	110.38
8	A	516[A]	9T1	O1B-C1-C2	2.05	121.04	113.64

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	501	9T7	O6-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
4	A	501	9T7	O6-C6-C7-O7
4	A	501	9T7	C5-C6-C7-C8
4	A	501	9T7	C5-C6-C7-O7
8	A	516[A]	9T1	O6-C6-C7-O7
8	A	516[A]	9T1	C6-C7-C8-O8
8	A	516[A]	9T1	O1B-C1-C2-C3
8	A	516[A]	9T1	O1A-C1-C2-C3
8	A	516[A]	9T1	O7-C7-C8-O8
8	A	516[A]	9T1	O7-C7-C8-C9
7	A	515[B]	9TM	O7-C7-C8-O8
8	A	516[A]	9T1	C6-C7-C8-C9
7	A	515[B]	9TM	O7-C7-C8-C9
7	A	515[B]	9TM	C6-C7-C8-C9
7	A	515[B]	9TM	C5-C6-C7-C8
7	A	515[B]	9TM	C5-C6-C7-O7
8	A	516[A]	9T1	O1A-C1-C2-O6
8	A	516[A]	9T1	O6-C6-C7-C8

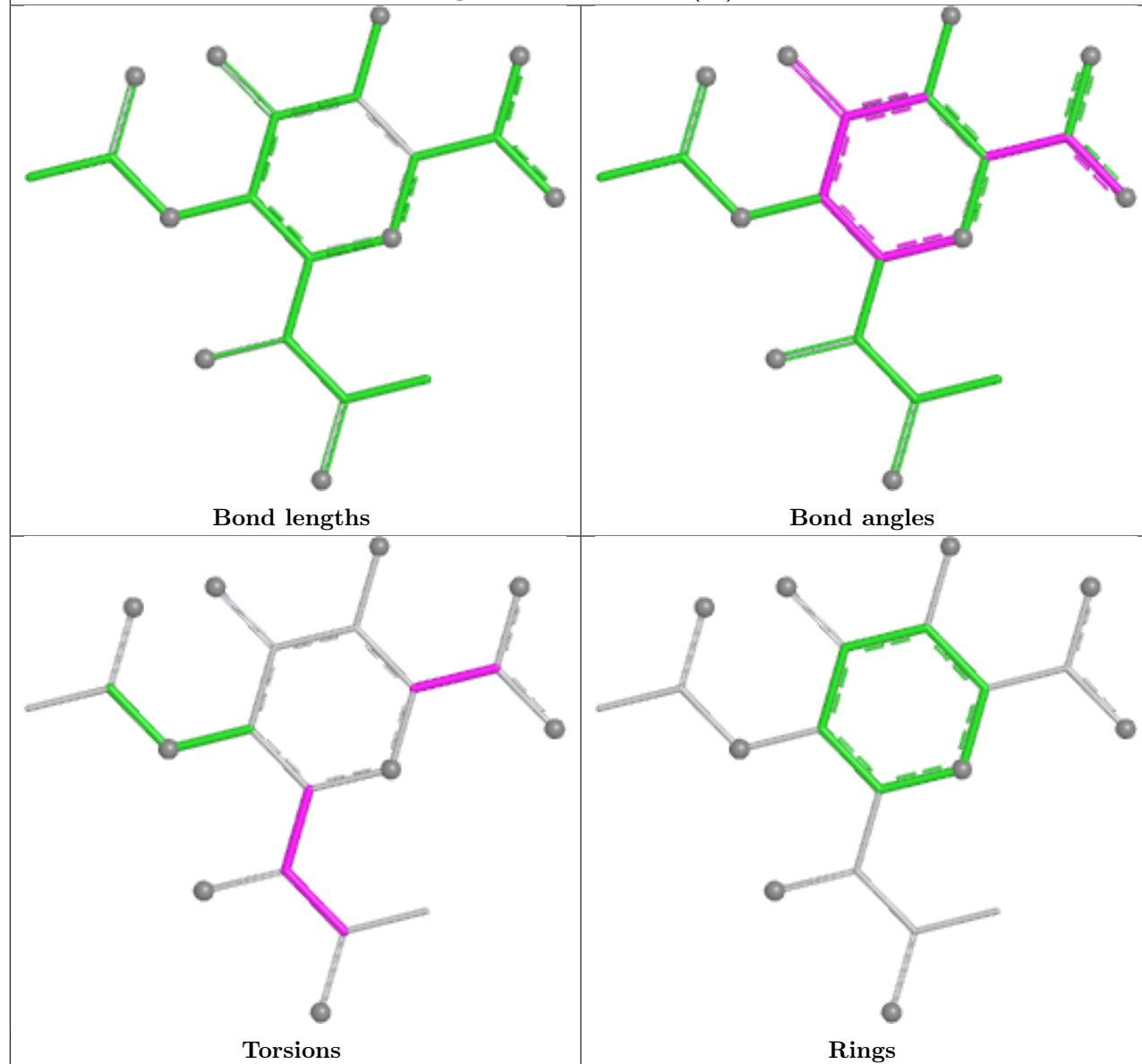
There are no ring outliers.

1 monomer is involved in 2 short contacts:

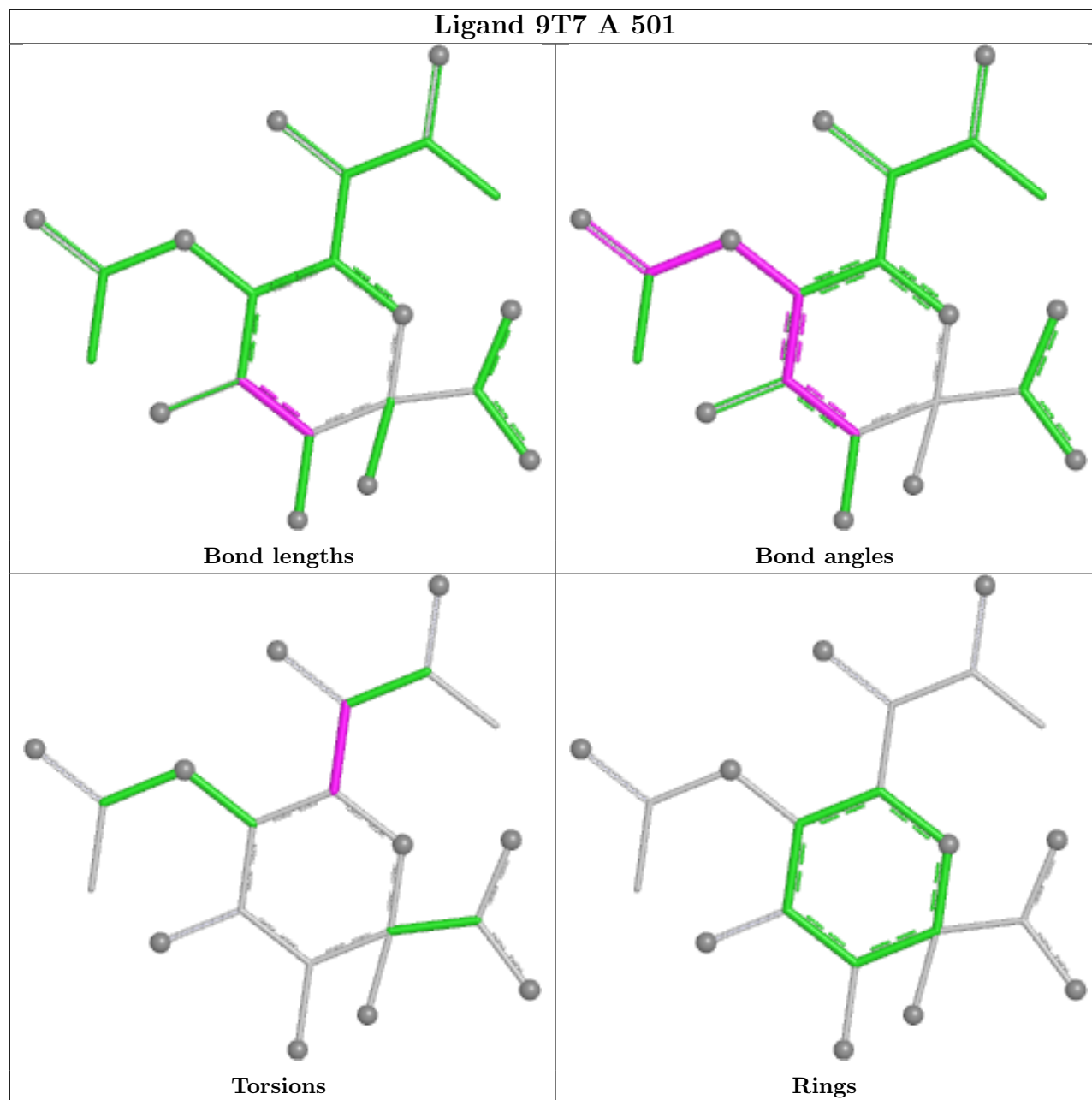
Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	A	516[A]	9T1	2	0

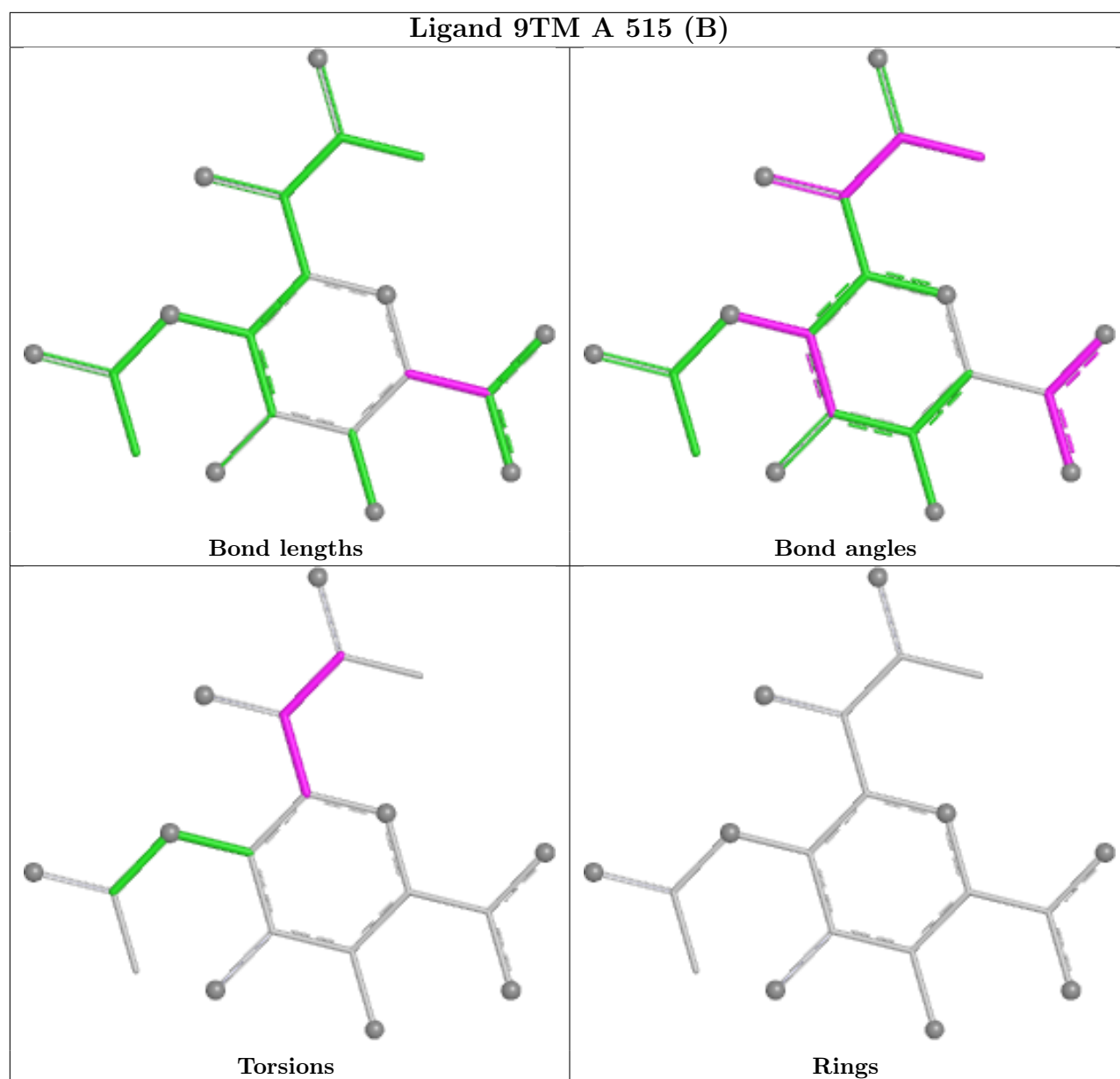
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

Ligand 9T1 A 516 (A)



Ligand 9T7 A 501





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	A	388/388 (100%)	-0.47	0 100 100	13, 20, 35, 54	9 (2%)

There are no RSRZ outliers to report.

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](#)

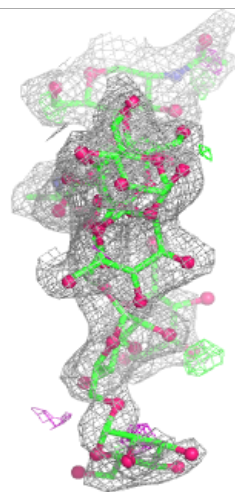
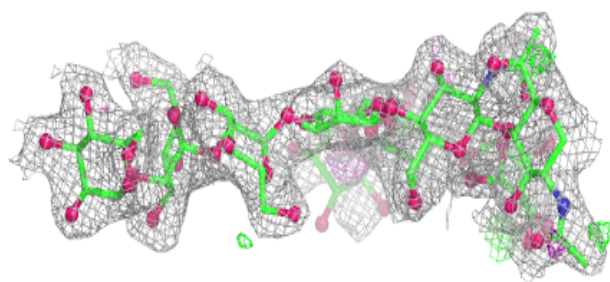
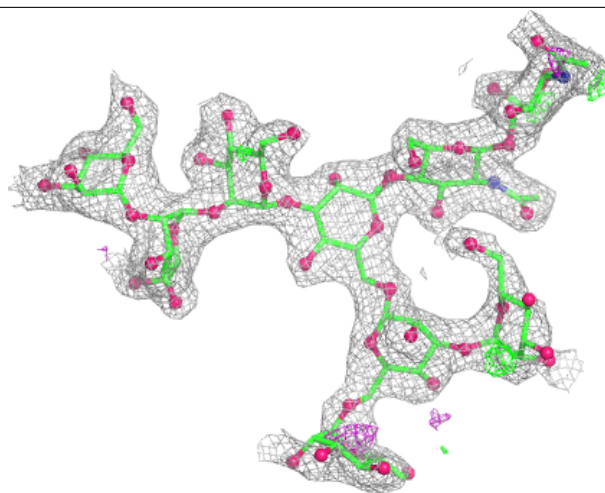
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists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

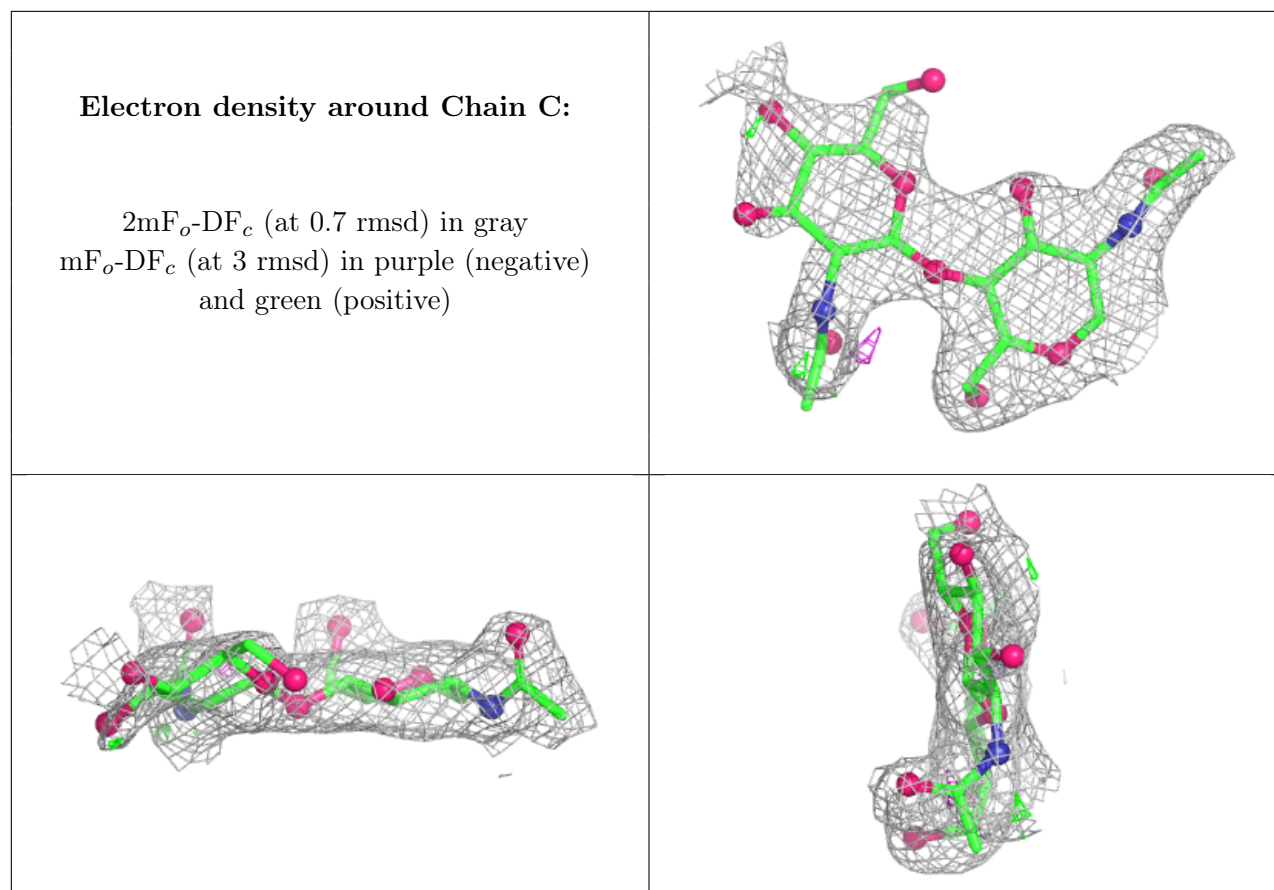
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	MAN	B	9	11/12	0.74	0.15	68,73,78,80	0
2	MAN	B	8	11/12	0.76	0.14	50,59,68,72	0
3	NAG	C	2	14/15	0.82	0.15	59,64,68,68	0
3	NAG	C	1	14/15	0.92	0.09	32,36,42,53	0
2	NAG	B	1	14/15	0.92	0.09	18,20,29,30	0
2	MAN	B	5	11/12	0.93	0.08	23,25,28,29	0
2	MAN	B	7	11/12	0.93	0.08	31,35,47,54	0
2	MAN	B	4	11/12	0.94	0.07	18,22,25,29	0
2	NAG	B	2	14/15	0.95	0.07	19,22,27,29	0
2	MAN	B	6	11/12	0.96	0.06	19,22,22,24	0
2	BMA	B	3	11/12	0.96	0.05	20,21,23,26	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 ⓘ

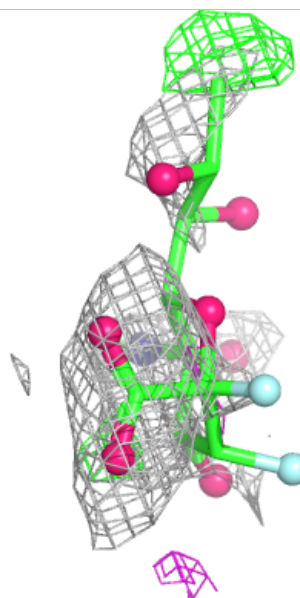
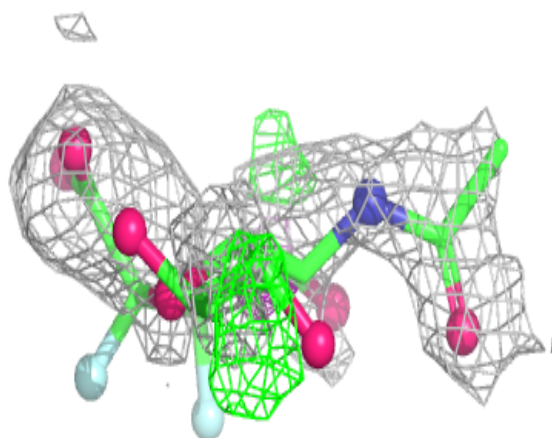
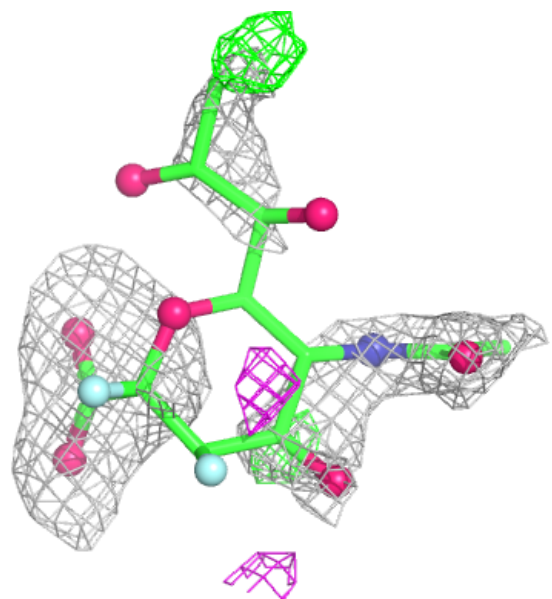
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	9T7	A	501	21/21	0.73	0.20	54,86,98,108	0
5	NAG	A	513	14/15	0.85	0.11	39,45,49,51	0
8	9T1	A	516[A]	20/20	0.91	0.11	15,16,17,17	20
7	9TM	A	515[B]	20/20	0.94	0.08	21,27,34,37	20
6	CA	A	514	1/1	0.99	0.06	22,22,22,22	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.

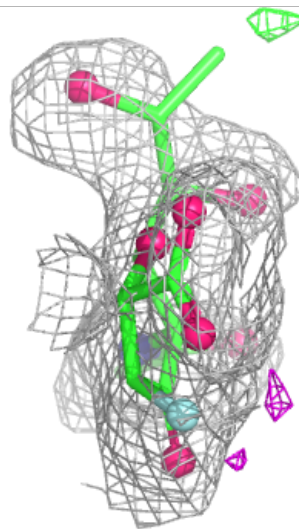
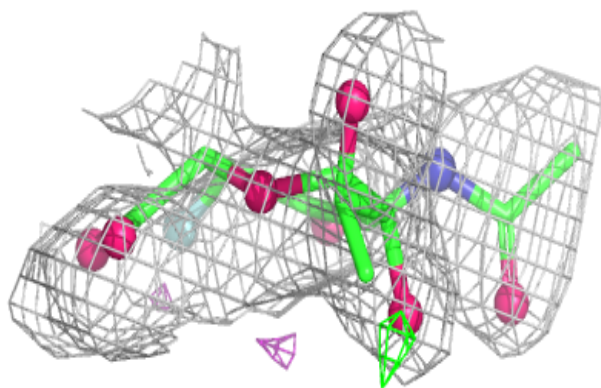
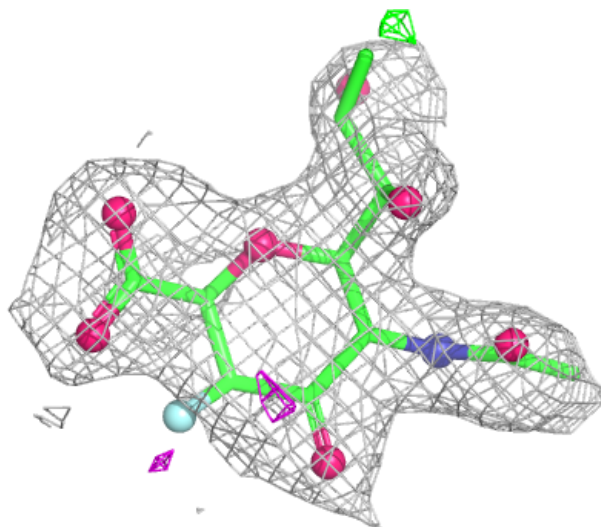
Electron density around 9T7 A 501:

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



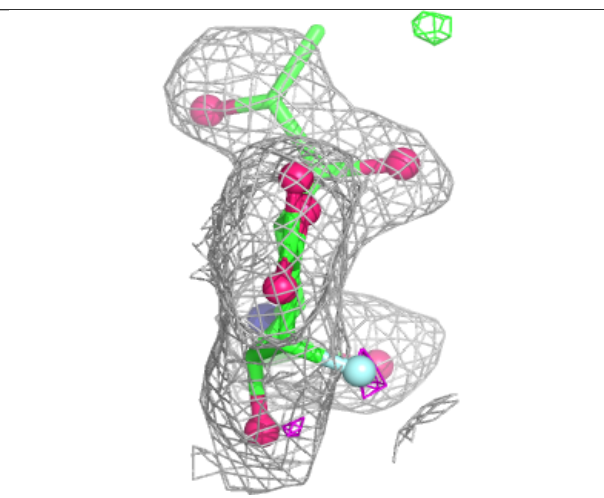
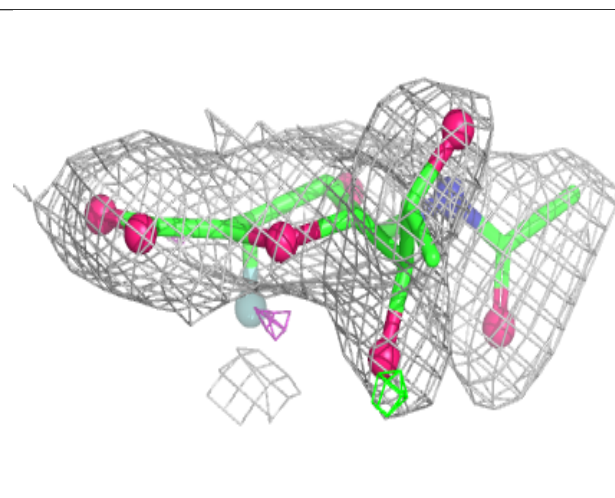
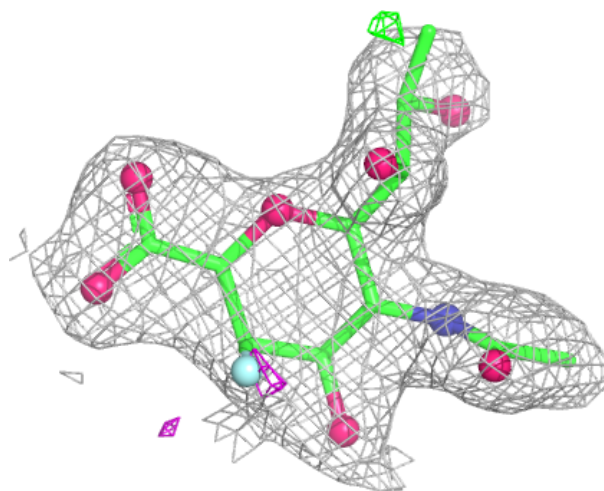
Electron density around 9T1 A 516 (A):

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



Electron density around 9TM A 515 (B):

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



6.5 Other polymers [i](#)

There are no such residues in this entry.