



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 1, 2026 – 01:50 AM UTC

PDB ID : 6Y0X / pdb_00006y0x
Title : Fucosylated antimicrobial peptide SB6 in complex with the lectin LecRSL from *Ralstonia solanacearum* at 2.4 Angstrom resolution
Authors : Baeriswyl, S.; Stocker, A.; Reymond, J.-L.
Deposited on : 2020-02-10
Resolution : 2.42 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
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
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

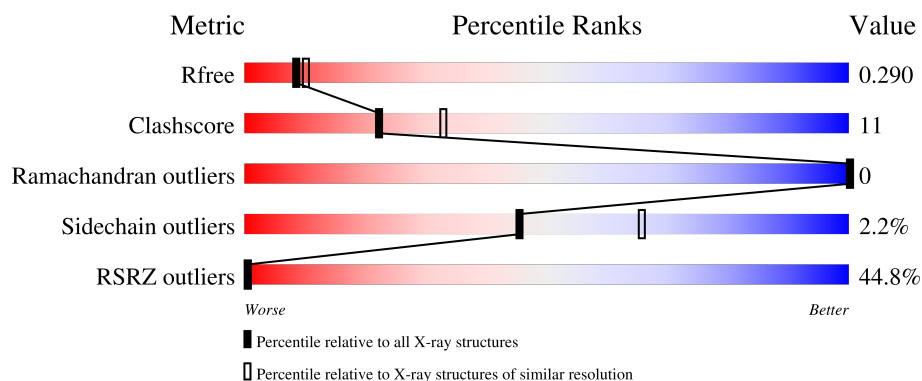
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.42 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	6062 (2.44-2.40)
Clashscore	190562	6562 (2.44-2.40)
Ramachandran outliers	187476	6481 (2.44-2.40)
Sidechain outliers	187428	6482 (2.44-2.40)
RSRZ outliers	180081	6066 (2.44-2.40)

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	A	91	55% 75% 22% ..
1	B	91	40% 75% 22% ..
1	C	91	47% 75% 23% .
1	D	91	37% 78% 20% .
1	E	91	45% 79% 16% ..

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Mol	Chain	Length	Quality of chain
1	F	91	
2	I	12	
2	K	12	
2	R	12	
3	J	13	
3	L	13	
3	M	13	
3	O	13	
3	Q	13	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	DLE	K	8	-	-	-	X
2	DAL	R	7	-	-	-	X
2	DLE	R	8	-	-	-	X
3	DLE	Q	11	-	-	-	X

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 4927 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 Fucose-binding lectin protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	89	Total	C	N	O	S	0	0	0
			676	425	115	134	2			
1	B	89	Total	C	N	O	S	0	0	0
			678	427	115	134	2			
1	C	89	Total	C	N	O	S	0	0	0
			676	425	116	133	2			
1	D	89	Total	C	N	O	S	0	0	0
			676	425	115	134	2			
1	E	89	Total	C	N	O	S	0	0	0
			678	427	115	134	2			
1	F	89	Total	C	N	O	S	0	0	0
			674	424	116	132	2			

- Molecule 2 is a protein (with D amino acids) called SB6.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	I	5	Total	C	N	O	0	0	0
			44	30	8	6			
2	K	6	Total	C	N	O	0	0	0
			52	36	9	7			
2	R	11	Total	C	N	O	0	0	0
			66	42	13	11			

- Molecule 3 is a protein (with D amino acids) called SB6.

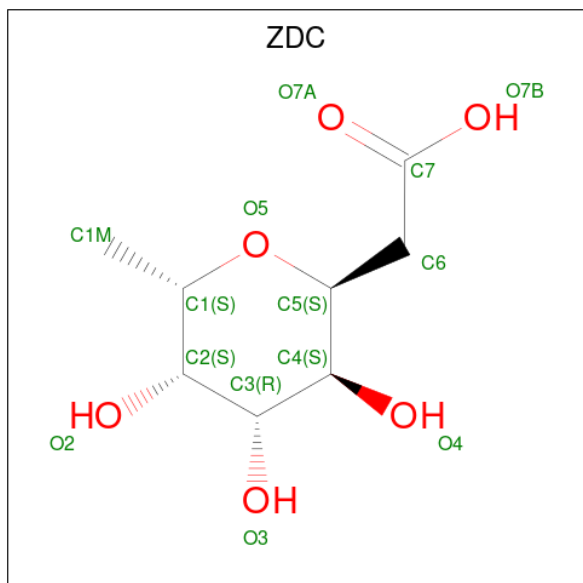
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	J	13	Total	C	N	O	0	0	1
			89	61	15	13			
3	L	13	Total	C	N	O	0	0	1
			81	53	15	13			
3	M	13	Total	C	N	O	0	0	1
			99	68	18	13			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	O	13	Total	C	N	O	0	0	1
			82	54	15	13			
3	Q	13	Total	C	N	O	0	0	1
			101	69	19	13			

- Molecule 4 is 3,7-anhydro-2,8-dideoxy-L-glycero-D-gluco-octonic acid (CCD ID: ZDC) (formula: $C_8H_{14}O_6$) (labeled as "Ligand of Interest" by depositor).



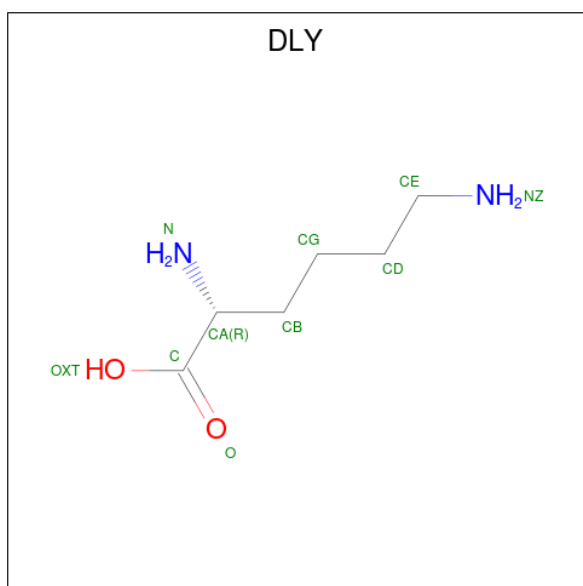
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			13	8	5		
4	A	1	Total	C	O	0	0
			13	8	5		
4	I	1	Total	C	O	0	0
			13	8	5		
4	J	1	Total	C	O	0	0
			13	8	5		
4	K	1	Total	C	O	0	0
			13	8	5		
4	L	1	Total	C	O	0	0
			13	8	5		
4	D	1	Total	C	O	0	0
			13	8	5		
4	M	1	Total	C	O	0	0
			13	8	5		
4	E	1	Total	C	O	0	0
			13	8	5		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	O	1	Total	C	O	0	0
			13	8	5		
4	Q	1	Total	C	O	0	0
			13	8	5		
4	R	1	Total	C	O	0	0
			13	8	5		

- Molecule 5 is D-LYSINE (CCD ID: DLY) (formula: $C_6H_{14}N_2O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			5	3	1	1		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	13	Total	O	0	0
			13	13		
6	B	14	Total	O	0	0
			14	14		
6	I	2	Total	O	0	0
			2	2		
6	J	1	Total	O	0	0
			1	1		
6	C	17	Total	O	0	0
			17	17		

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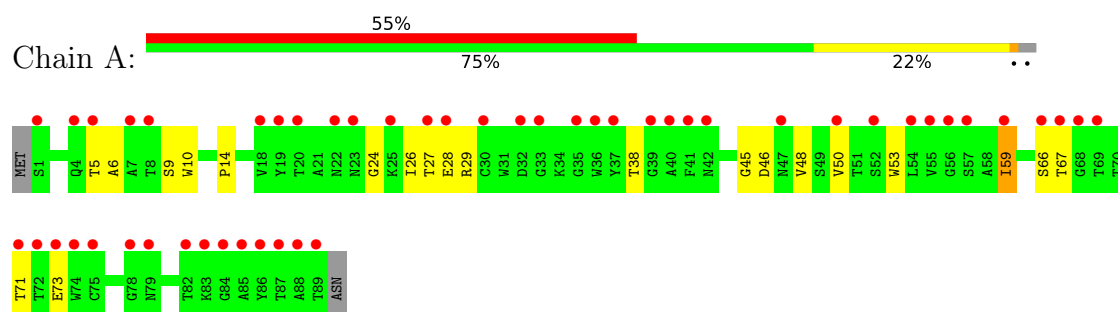
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	K	1	Total 1	O 1	0	0
6	L	1	Total 1	O 1	0	0
6	D	17	Total 17	O 17	0	0
6	E	10	Total 10	O 10	0	0
6	O	2	Total 2	O 2	0	0
6	F	15	Total 15	O 15	0	0
6	Q	1	Total 1	O 1	0	0

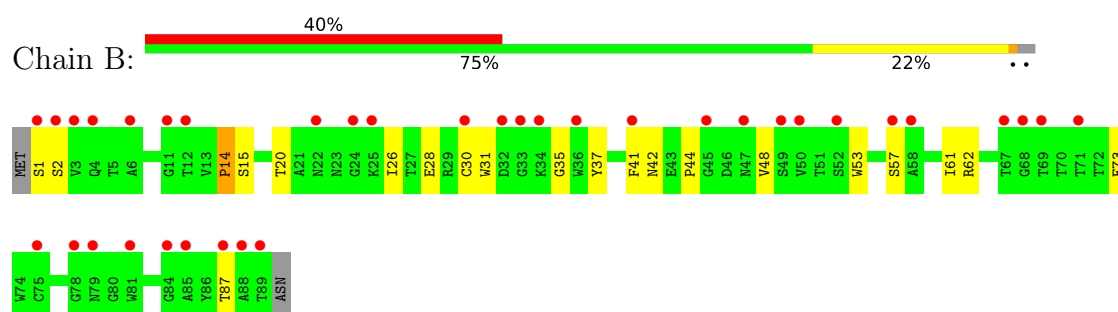
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

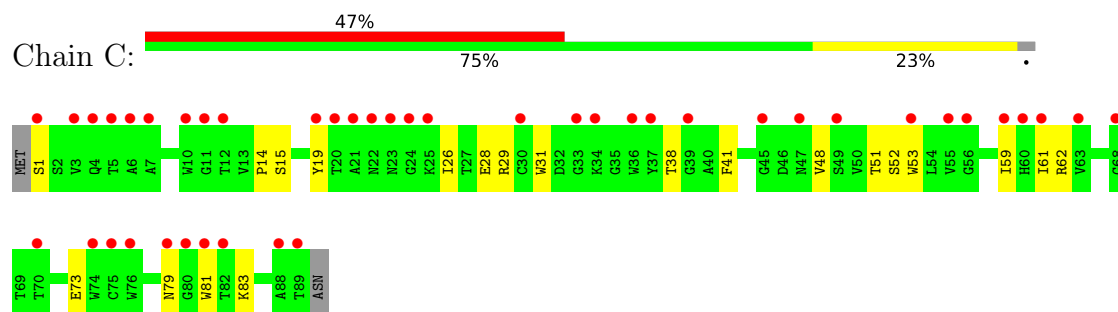
- Molecule 1: Fucose-binding lectin protein



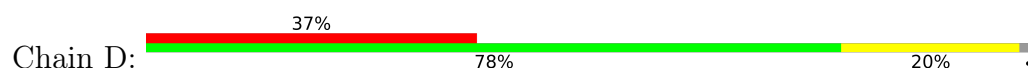
- Molecule 1: Fucose-binding lectin protein

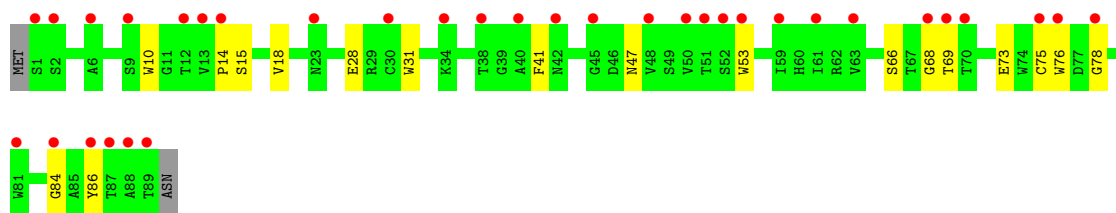


- Molecule 1: Fucose-binding lectin protein

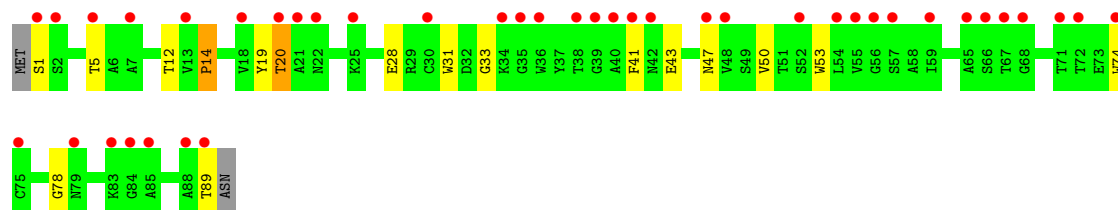
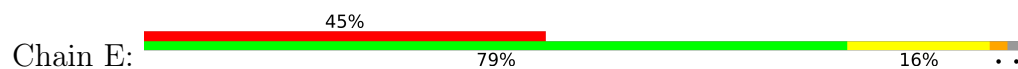


- Molecule 1: Fucose-binding lectin protein

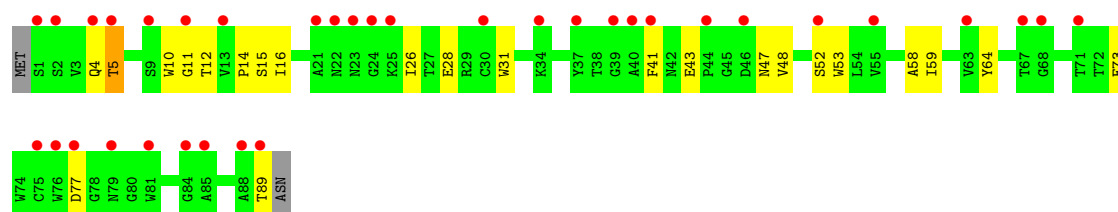
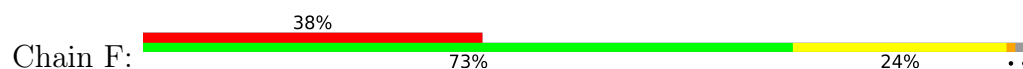




- Molecule 1: Fucose-binding lectin protein



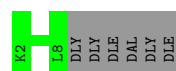
- Molecule 1: Fucose-binding lectin protein



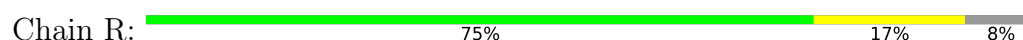
- Molecule 2: SB6



- Molecule 2: SB6



- Molecule 2: SB6



- Molecule 3: SB6

Chain J:  92% 8%



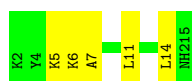
• Molecule 3: SB6

Chain L:  77% 23%



• Molecule 3: SB6

Chain M:  62% 38%



• Molecule 3: SB6

Chain O:  77% 23%



• Molecule 3: SB6

Chain Q:  69% 23% 8%



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	100.51Å 100.51Å 271.65Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.10 – 2.42 49.10 – 2.42	Depositor EDS
% Data completeness (in resolution range)	99.7 (49.10-2.42) 99.8 (49.10-2.42)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 2.42Å)	Xtriage
Refinement program	PHENIX v1.11.1-2575	Depositor
R, R_{free}	0.243 , 0.280 0.265 , 0.290	Depositor DCC
R_{free} test set	2688 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	55.2	Xtriage
Anisotropy	0.489	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 61.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	4927	wwPDB-VP
Average B, all atoms (Å ²)	75.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.01% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: DLY, DTY, DLE, NH2, DAL, ZDC

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	0.28	0/697	0.48	0/959
1	B	0.35	0/699	0.59	0/961
1	C	0.37	0/697	0.54	0/957
1	D	0.38	0/697	0.57	0/959
1	E	0.32	0/699	0.53	0/961
1	F	0.39	0/695	0.54	0/954
All	All	0.35	0/4184	0.54	0/5751

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

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	676	0	621	14	0
1	B	678	0	625	18	0
1	C	676	0	624	17	0
1	D	676	0	621	13	0
1	E	678	0	625	17	0
1	F	674	0	620	21	0
2	I	44	0	46	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	K	52	0	58	0	0
2	R	66	0	50	2	0
3	J	89	0	85	3	0
3	L	81	0	62	2	0
3	M	99	0	112	3	0
3	O	82	0	68	2	0
3	Q	101	0	117	5	0
4	A	26	0	24	2	0
4	D	13	0	12	0	0
4	E	13	0	12	0	0
4	I	13	0	12	1	0
4	J	13	0	12	3	0
4	K	13	0	12	0	0
4	L	13	0	12	2	0
4	M	13	0	12	0	0
4	O	13	0	12	1	0
4	Q	13	0	12	1	0
4	R	13	0	12	2	0
5	A	5	0	1	0	0
6	A	13	0	0	2	0
6	B	14	0	0	0	0
6	C	17	0	0	2	0
6	D	17	0	0	2	0
6	E	10	0	0	2	0
6	F	15	0	0	4	0
6	I	2	0	0	1	0
6	J	1	0	0	1	0
6	K	1	0	0	0	0
6	L	1	0	0	0	0
6	O	2	0	0	0	0
6	Q	1	0	0	0	0
All	All	4927	0	4479	99	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 11.

The worst 5 of 99 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:C:79:ASN:OD1	6:C:101:HOH:O	1.97	0.82
1:F:58:ALA:HB2	3:Q:9:DLY:HE3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:43:GLU:OE1	6:F:101:HOH:O	2.06	0.73
1:F:73:GLU:OE1	4:R:101:ZDC:O3	2.07	0.71
1:A:5:THR:OG1	6:A:201:HOH:O	2.11	0.69

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 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	87/91 (96%)	83 (95%)	4 (5%)	0	100	100
1	B	87/91 (96%)	80 (92%)	7 (8%)	0	100	100
1	C	87/91 (96%)	85 (98%)	2 (2%)	0	100	100
1	D	87/91 (96%)	84 (97%)	3 (3%)	0	100	100
1	E	87/91 (96%)	83 (95%)	4 (5%)	0	100	100
1	F	87/91 (96%)	85 (98%)	2 (2%)	0	100	100
All	All	522/546 (96%)	500 (96%)	22 (4%)	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	69/72 (96%)	68 (99%)	1 (1%)	59	77
1	B	69/72 (96%)	67 (97%)	2 (3%)	37	57
1	C	69/72 (96%)	69 (100%)	0	100	100
1	D	69/72 (96%)	68 (99%)	1 (1%)	59	77
1	E	69/72 (96%)	66 (96%)	3 (4%)	26	42
1	F	68/72 (94%)	66 (97%)	2 (3%)	37	57
All	All	413/432 (96%)	404 (98%)	9 (2%)	45	66

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	5	THR
1	F	12	THR
1	D	69	THR
1	E	12	THR
1	E	14	PRO

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 ⓘ

82 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	DLY	M	2	4,3	5,6,9	0.64	0	2,6,10	0.57	0
2	DAL	R	7	2	3,4,5	0.70	0	2,4,6	0.80	0
3	DLY	J	10	3	7,8,9	0.51	0	3,8,10	0.69	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	DAL	J	7	3	3,4,5	0.67	0	2,4,6	0.74	0
2	DTY	R	4	2	3,4,13	0.66	0	2,4,17	0.95	0
3	DLY	O	13	3	3,4,9	0.71	0	2,4,10	0.71	0
3	DLY	M	9	3	7,8,9	0.65	0	3,8,10	0.18	0
2	DLY	K	6	2	7,8,9	0.65	0	3,8,10	0.87	0
3	DAL	L	7	3	3,4,5	0.69	0	2,4,6	0.84	0
3	DLY	L	9	3	3,4,9	0.74	0	2,4,10	0.71	0
3	DAL	O	7	3	3,4,5	0.64	0	2,4,6	0.82	0
3	DLY	L	10	3	4,5,9	0.61	0	1,5,10	0.02	0
2	DLY	I	4	2	7,8,9	0.63	0	3,8,10	0.72	0
3	DLY	Q	2	4,3	7,8,9	0.60	0	3,8,10	0.58	0
3	DLE	M	11	3	5,7,8	0.54	0	6,8,10	0.36	0
3	DLY	L	2	4,3	7,8,9	0.88	0	3,8,10	0.33	0
2	DLY	R	13	2	3,4,9	0.73	0	2,4,10	0.68	0
3	DLE	L	8	3	3,4,8	0.72	0	2,4,10	0.78	0
2	DAL	I	6	2	3,4,5	0.53	0	2,4,6	0.79	0
2	DLE	K	8	2	5,7,8	0.67	0	6,8,10	0.50	0
2	DLY	R	5	2	3,4,9	0.65	0	2,4,10	0.77	0
3	DLY	L	6	3	7,8,9	0.51	0	3,8,10	0.43	0
3	DLE	Q	8	3	5,7,8	0.48	0	6,8,10	0.88	1 (16%)
2	DLY	K	2	4,2	7,8,9	0.51	0	3,8,10	0.62	0
3	DLY	M	10	3	7,8,9	0.49	0	3,8,10	0.29	0
3	DAL	J	12	3	3,4,5	0.69	0	2,4,6	0.65	0
3	DLY	M	6	3	7,8,9	0.81	0	3,8,10	0.48	0
3	DLY	J	5	3	4,5,9	0.64	0	1,5,10	0.02	0
3	DLY	M	13	3	7,8,9	0.58	0	3,8,10	0.32	0
2	DLE	R	11	2	3,4,8	0.68	0	2,4,10	0.94	0
3	DLY	J	13	3	4,5,9	0.59	0	1,5,10	0.23	0
3	DLE	J	11	3	5,7,8	0.65	0	6,8,10	0.49	0
2	DTY	K	4	2	11,12,13	0.51	0	10,15,17	0.19	0
2	DLE	R	8	2	5,7,8	0.54	0	6,8,10	0.53	0
2	DAL	K	7	2	3,4,5	0.66	0	2,4,6	0.94	0
3	DLE	Q	14	3	5,7,8	0.54	0	6,8,10	0.51	0
3	DLY	L	13	3	4,5,9	0.58	0	1,5,10	0.11	0
2	DLY	R	6	2	7,8,9	0.56	0	3,8,10	0.39	0
3	DLE	L	14	3	5,7,8	0.54	0	6,8,10	0.25	0
3	DLY	J	9	3	4,5,9	0.58	0	1,5,10	0.07	0
3	DLY	Q	6	3	7,8,9	0.54	0	3,8,10	0.35	0
3	DLY	Q	10	3	7,8,9	0.66	0	3,8,10	0.14	0
3	DTY	J	4	3	11,12,13	0.44	0	10,15,17	0.19	0
3	DLE	O	14	3	5,7,8	0.45	0	6,8,10	0.60	0
3	DLY	O	6	3	7,8,9	0.58	0	3,8,10	0.33	0
3	DAL	O	12	3	3,4,5	0.83	0	2,4,6	0.84	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	DLY	L	5	3	3,4,9	0.67	0	2,4,10	0.72	0
3	DLE	M	14	3	5,7,8	0.59	0	6,8,10	0.51	0
2	DLY	I	2	4,2	7,8,9	0.54	0	3,8,10	0.33	0
3	DLE	O	8	3	5,7,8	0.51	0	6,8,10	0.71	0
3	DLE	L	11	3	3,4,8	0.65	0	2,4,10	0.83	0
3	DLY	O	5	3	3,4,9	0.58	0	2,4,10	1.12	0
3	DLY	O	9	3	3,4,9	0.69	0	2,4,10	0.87	0
2	DLY	R	9	2	3,4,9	0.59	0	2,4,10	0.84	0
3	DLE	J	14	3	5,7,8	0.61	0	6,8,10	0.34	0
3	DLE	M	8	3	5,7,8	0.57	0	6,8,10	0.28	0
3	DLE	O	11	3	3,4,8	0.67	0	2,4,10	0.71	0
2	DAL	R	12	2	3,4,5	0.66	0	2,4,6	0.88	0
2	DLY	R	2	4,2	7,8,9	1.32	1 (14%)	3,8,10	0.49	0
3	DLY	J	2	4,3	7,8,9	0.58	0	3,8,10	0.38	0
3	DAL	Q	12	3	3,4,5	0.61	0	2,4,6	0.78	0
3	DLY	Q	5	3	7,8,9	0.66	0	3,8,10	0.41	0
3	DLY	J	6	3	4,5,9	0.61	0	1,5,10	0.07	0
3	DAL	L	12	3	3,4,5	0.58	0	2,4,6	0.81	0
3	DAL	Q	7	3	3,4,5	0.68	0	2,4,6	0.76	0
2	DLY	I	5	2	7,8,9	0.56	0	3,8,10	0.73	0
3	DLY	O	10	3	3,4,9	0.62	0	2,4,10	0.83	0
3	DTY	M	4	3	11,12,13	0.75	0	10,15,17	0.46	0
3	DLE	Q	11	3	5,7,8	0.60	0	6,8,10	0.22	0
3	DLY	Q	9	3	7,8,9	0.69	0	3,8,10	0.29	0
3	DAL	M	7	3	3,4,5	0.80	0	2,4,6	0.81	0
3	DLY	O	2	4,3	7,8,9	0.66	0	3,8,10	0.07	0
3	DLY	Q	13	3	7,8,9	0.56	0	3,8,10	0.18	0
3	DLE	J	8	3	5,7,8	0.54	0	6,8,10	0.40	0
2	DLY	K	5	2	7,8,9	0.48	0	3,8,10	0.37	0
3	DTY	O	4	3	11,12,13	0.48	0	10,15,17	0.35	0
3	DAL	M	12	3	3,4,5	0.72	0	2,4,6	0.64	0
2	DLY	R	10	2	3,4,9	0.63	0	2,4,10	0.85	0
3	DLY	M	5	3	7,8,9	0.72	0	3,8,10	0.32	0
3	DTY	Q	4	3	11,12,13	0.51	0	10,15,17	0.20	0
2	DTY	I	3	2	11,12,13	0.61	0	10,15,17	0.36	0
3	DTY	L	4	3	11,12,13	0.66	0	10,15,17	0.16	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
3	DLY	M	2	4,3	-	0/4/5/9	-
2	DAL	R	7	2	-	1/1/2/4	-
3	DLY	J	10	3	-	0/6/7/9	-
3	DAL	J	7	3	-	0/1/2/4	-
2	DTY	R	4	2	-	0/1/2/8	-
3	DLY	O	13	3	-	0/1/2/9	-
3	DLY	M	9	3	-	1/6/7/9	-
2	DLY	K	6	2	-	0/6/7/9	-
3	DAL	L	7	3	-	1/1/2/4	-
3	DLY	L	9	3	-	0/1/2/9	-
3	DAL	O	7	3	-	1/1/2/4	-
3	DLY	L	10	3	-	0/3/4/9	-
2	DLY	I	4	2	-	0/6/7/9	-
3	DLY	Q	2	4,3	-	0/6/7/9	-
3	DLE	M	11	3	-	2/5/6/8	-
3	DLY	L	2	4,3	-	2/6/7/9	-
2	DLY	R	13	2	-	0/1/2/9	-
3	DLE	L	8	3	-	1/1/2/8	-
2	DAL	I	6	2	-	1/1/2/4	-
2	DLE	K	8	2	-	2/5/6/8	-
2	DLY	R	5	2	-	0/1/2/9	-
3	DLY	L	6	3	-	4/6/7/9	-
3	DLE	Q	8	3	-	0/5/6/8	-
2	DLY	K	2	4,2	-	0/6/7/9	-
3	DLY	M	10	3	-	1/6/7/9	-
3	DAL	J	12	3	-	0/1/2/4	-
3	DLY	M	6	3	-	2/6/7/9	-
3	DLY	J	5	3	-	0/3/4/9	-
3	DLY	M	13	3	-	2/6/7/9	-
2	DLE	R	11	2	-	0/1/2/8	-
3	DLY	J	13	3	-	1/3/4/9	-
3	DLE	J	11	3	-	2/5/6/8	-
2	DTY	K	4	2	-	0/5/6/8	0/1/1/1
2	DLE	R	8	2	-	4/5/6/8	-
2	DAL	K	7	2	-	1/1/2/4	-
3	DLE	Q	14	3	-	2/5/6/8	-
3	DLY	L	13	3	-	2/3/4/9	-
2	DLY	R	6	2	-	2/6/7/9	-
3	DLE	L	14	3	-	1/5/6/8	-
3	DLY	J	9	3	-	1/3/4/9	-
3	DLY	Q	6	3	-	1/6/7/9	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	DLY	Q	10	3	-	3/6/7/9	-
3	DTY	J	4	3	-	0/5/6/8	0/1/1/1
3	DLE	O	14	3	-	2/5/6/8	-
3	DLY	O	6	3	-	3/6/7/9	-
3	DAL	O	12	3	-	0/1/2/4	-
3	DLY	L	5	3	-	0/1/2/9	-
3	DLE	M	14	3	-	3/5/6/8	-
2	DLY	I	2	4,2	-	2/6/7/9	-
3	DLE	O	8	3	-	2/5/6/8	-
3	DLE	L	11	3	-	1/1/2/8	-
3	DLY	O	5	3	-	1/1/2/9	-
3	DLY	O	9	3	-	0/1/2/9	-
2	DLY	R	9	2	-	0/1/2/9	-
3	DLE	J	14	3	-	0/5/6/8	-
3	DLE	M	8	3	-	0/5/6/8	-
3	DLE	O	11	3	-	1/1/2/8	-
2	DAL	R	12	2	-	0/1/2/4	-
2	DLY	R	2	4,2	-	2/6/7/9	-
3	DLY	J	2	4,3	-	4/6/7/9	-
3	DAL	Q	12	3	-	0/1/2/4	-
3	DLY	Q	5	3	-	3/6/7/9	-
3	DLY	J	6	3	-	0/3/4/9	-
3	DAL	L	12	3	-	0/1/2/4	-
3	DAL	Q	7	3	-	0/1/2/4	-
2	DLY	I	5	2	-	0/6/7/9	-
3	DLY	O	10	3	-	1/1/2/9	-
3	DTY	M	4	3	-	2/5/6/8	0/1/1/1
3	DLE	Q	11	3	-	0/5/6/8	-
3	DLY	Q	9	3	-	3/6/7/9	-
3	DAL	M	7	3	-	1/1/2/4	-
3	DLY	O	2	4,3	-	1/6/7/9	-
3	DLY	Q	13	3	-	2/6/7/9	-
3	DLE	J	8	3	-	0/5/6/8	-
2	DLY	K	5	2	-	1/6/7/9	-
3	DTY	O	4	3	-	2/5/6/8	0/1/1/1
3	DAL	M	12	3	-	0/1/2/4	-
2	DLY	R	10	2	-	0/1/2/9	-
3	DLY	M	5	3	-	1/6/7/9	-
3	DTY	Q	4	3	-	2/5/6/8	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	DTY	I	3	2	-	0/5/6/8	0/1/1/1
3	DTY	L	4	3	-	0/5/6/8	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	R	2	DLY	CA-N	3.28	1.57	1.48

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Q	8	DLE	CB-CA-C	-2.02	107.88	110.99

There are no chirality outliers.

5 of 81 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	K	5	DLY	O-C-CA-CB
2	I	6	DAL	O-C-CA-CB
2	K	7	DAL	O-C-CA-CB
2	R	7	DAL	O-C-CA-CB
2	R	8	DLE	N-CA-CB-CG

There are no ring outliers.

18 monomers are involved in 17 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	L	7	DAL	1	0
3	M	11	DLE	1	0
3	L	6	DLY	2	0
3	Q	8	DLE	1	0
3	M	6	DLY	2	0
2	R	6	DLY	2	0
3	Q	6	DLY	2	0
3	O	6	DLY	1	0
3	M	14	DLE	1	0
3	O	5	DLY	1	0
3	J	2	DLY	3	0
3	Q	5	DLY	2	0
3	Q	9	DLY	2	0
3	M	7	DAL	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	O	4	DTY	1	0
3	M	5	DLY	1	0
2	I	3	DTY	1	0
3	L	4	DTY	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

13 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	ZDC	J	101	3	13,13,14	0.90	0	18,18,20	2.30	6 (33%)
4	ZDC	D	101	-	13,13,14	0.85	0	18,18,20	2.45	6 (33%)
4	ZDC	A	103	-	13,13,14	0.96	1 (7%)	18,18,20	2.81	4 (22%)
4	ZDC	M	101	3	13,13,14	0.99	0	18,18,20	2.95	6 (33%)
4	ZDC	Q	101	3	13,13,14	0.85	0	18,18,20	2.61	6 (33%)
5	DLY	A	102	4	3,4,9	0.71	0	2,4,10	0.75	0
4	ZDC	E	101	-	13,13,14	0.92	1 (7%)	18,18,20	2.59	5 (27%)
4	ZDC	O	101	3	13,13,14	0.90	0	18,18,20	2.55	4 (22%)
4	ZDC	R	101	2	13,13,14	0.83	0	18,18,20	3.02	6 (33%)
4	ZDC	I	101	2	13,13,14	0.93	0	18,18,20	2.48	6 (33%)
4	ZDC	L	101	3	13,13,14	0.91	1 (7%)	18,18,20	2.71	4 (22%)
4	ZDC	A	101	5	13,13,14	0.92	0	18,18,20	2.75	4 (22%)
4	ZDC	K	101	2	13,13,14	1.01	0	18,18,20	2.55	4 (22%)

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	ZDC	J	101	3	-	2/3/23/24	0/1/1/1
4	ZDC	D	101	-	-	2/3/23/24	0/1/1/1
4	ZDC	A	103	-	-	1/3/23/24	0/1/1/1
4	ZDC	M	101	3	-	2/3/23/24	0/1/1/1
4	ZDC	Q	101	3	-	1/3/23/24	0/1/1/1
5	DLY	A	102	4	-	0/1/2/9	-
4	ZDC	E	101	-	-	2/3/23/24	0/1/1/1
4	ZDC	O	101	3	-	1/3/23/24	0/1/1/1
4	ZDC	R	101	2	-	1/3/23/24	0/1/1/1
4	ZDC	I	101	2	-	1/3/23/24	0/1/1/1
4	ZDC	L	101	3	-	3/3/23/24	0/1/1/1
4	ZDC	A	101	5	-	2/3/23/24	0/1/1/1
4	ZDC	K	101	2	-	2/3/23/24	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	103	ZDC	C6-C7	2.03	1.55	1.50
4	E	101	ZDC	C2-C1	2.01	1.57	1.52
4	L	101	ZDC	C6-C7	2.00	1.55	1.50

The worst 5 of 61 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	101	ZDC	C6-C5-C4	10.43	127.02	114.16
4	A	103	ZDC	C6-C5-C4	10.35	126.93	114.16
4	A	101	ZDC	C6-C5-C4	9.53	125.92	114.16
4	M	101	ZDC	C6-C5-C4	9.52	125.90	114.16
4	L	101	ZDC	C6-C5-C4	8.67	124.85	114.16

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	101	ZDC	O5-C5-C6-C7
4	A	103	ZDC	O5-C5-C6-C7
4	I	101	ZDC	O5-C5-C6-C7
4	J	101	ZDC	O5-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
4	K	101	ZDC	O5-C5-C6-C7

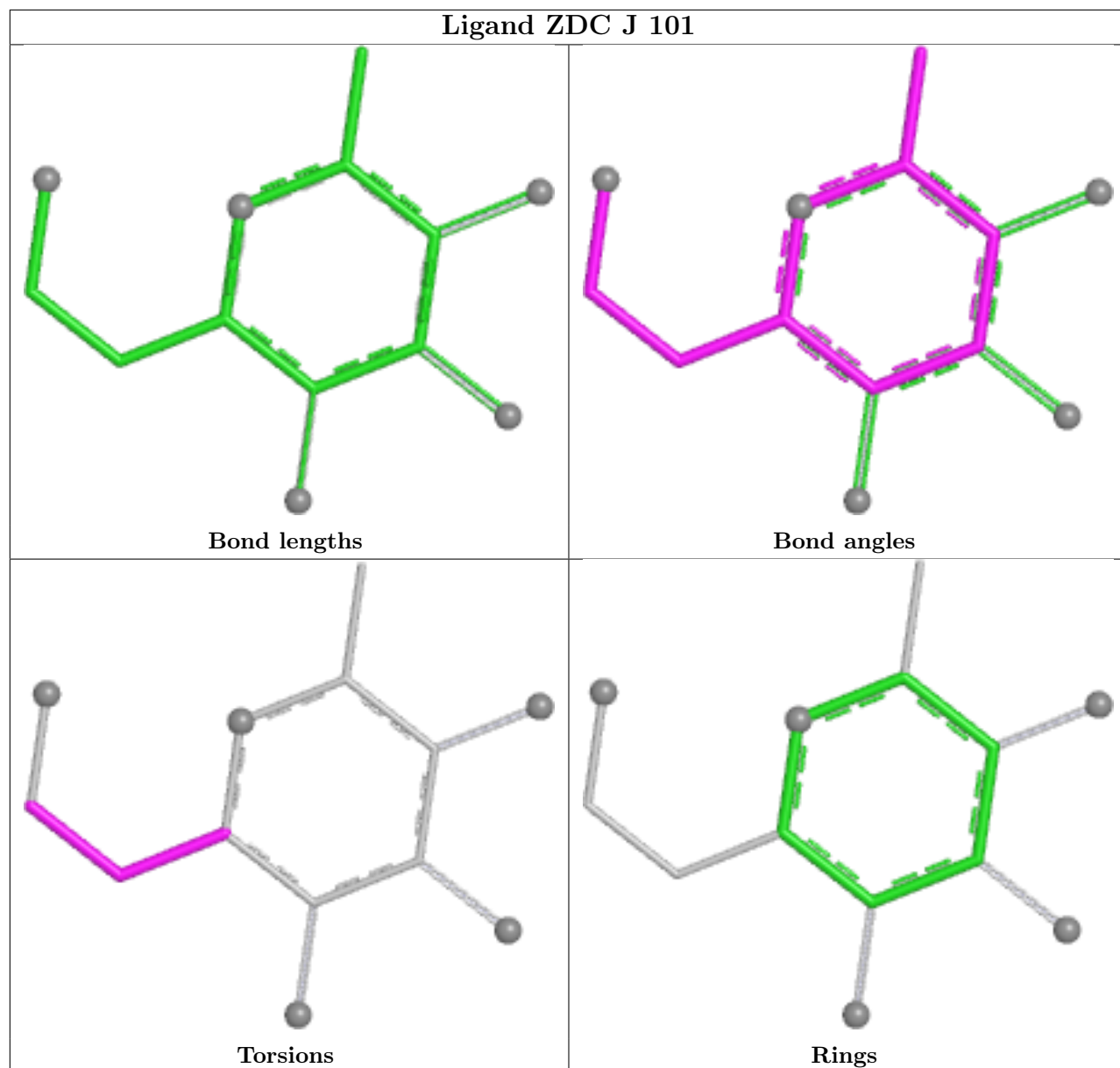
There are no ring outliers.

8 monomers are involved in 12 short contacts:

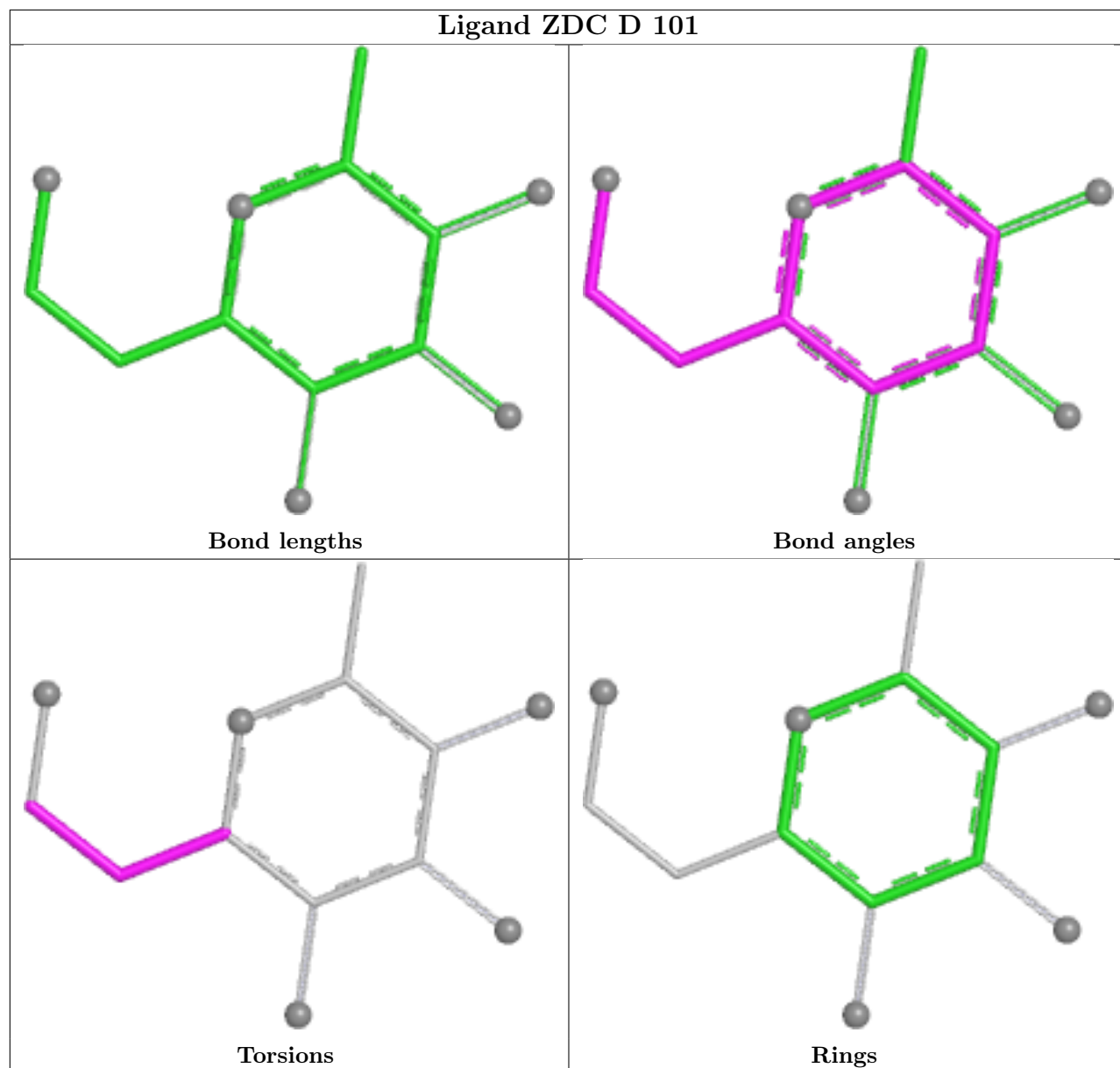
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	J	101	ZDC	3	0
4	A	103	ZDC	1	0
4	Q	101	ZDC	1	0
4	O	101	ZDC	1	0
4	R	101	ZDC	2	0
4	I	101	ZDC	1	0
4	L	101	ZDC	2	0
4	A	101	ZDC	1	0

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

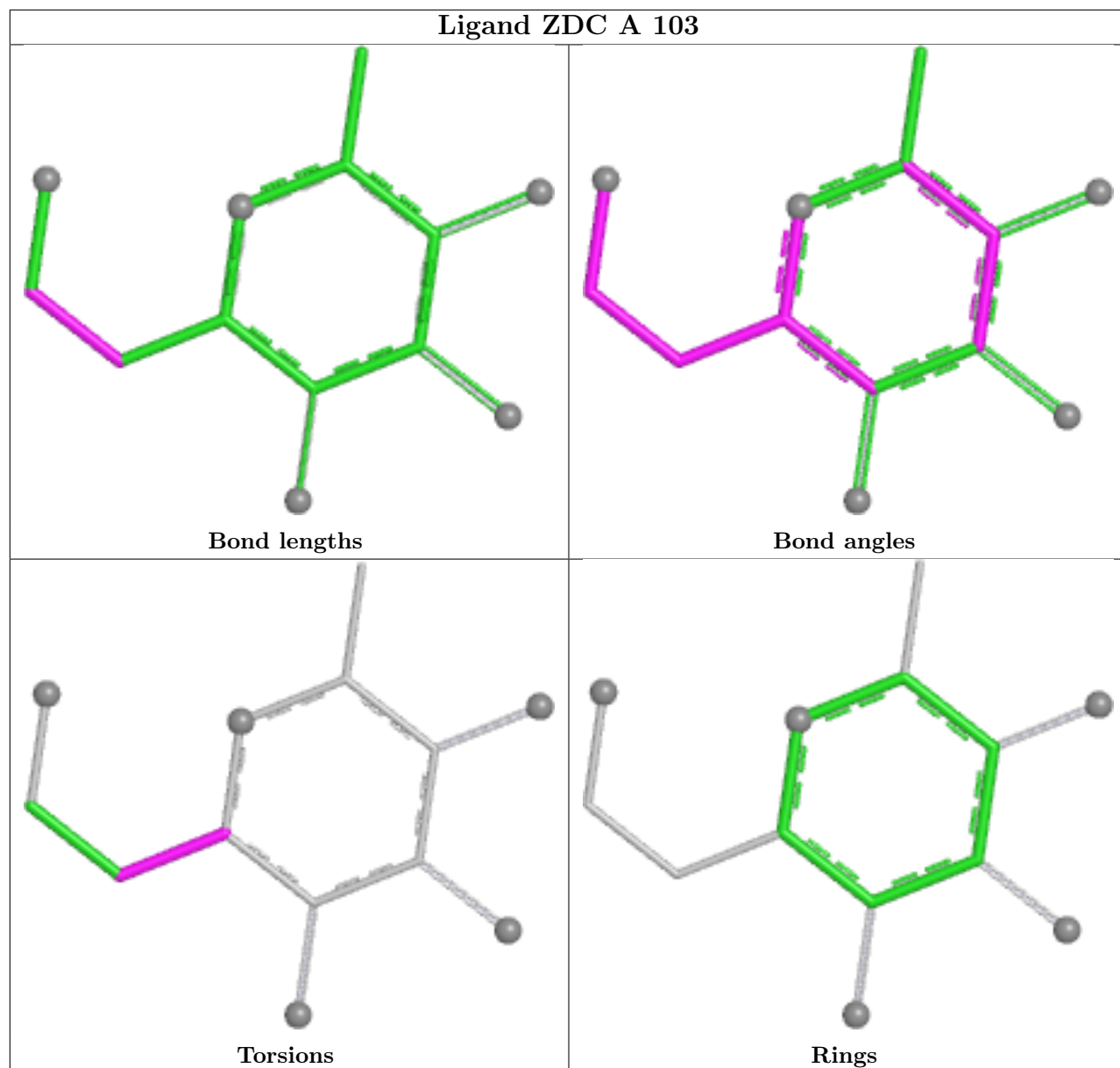
Ligand ZDC J 101

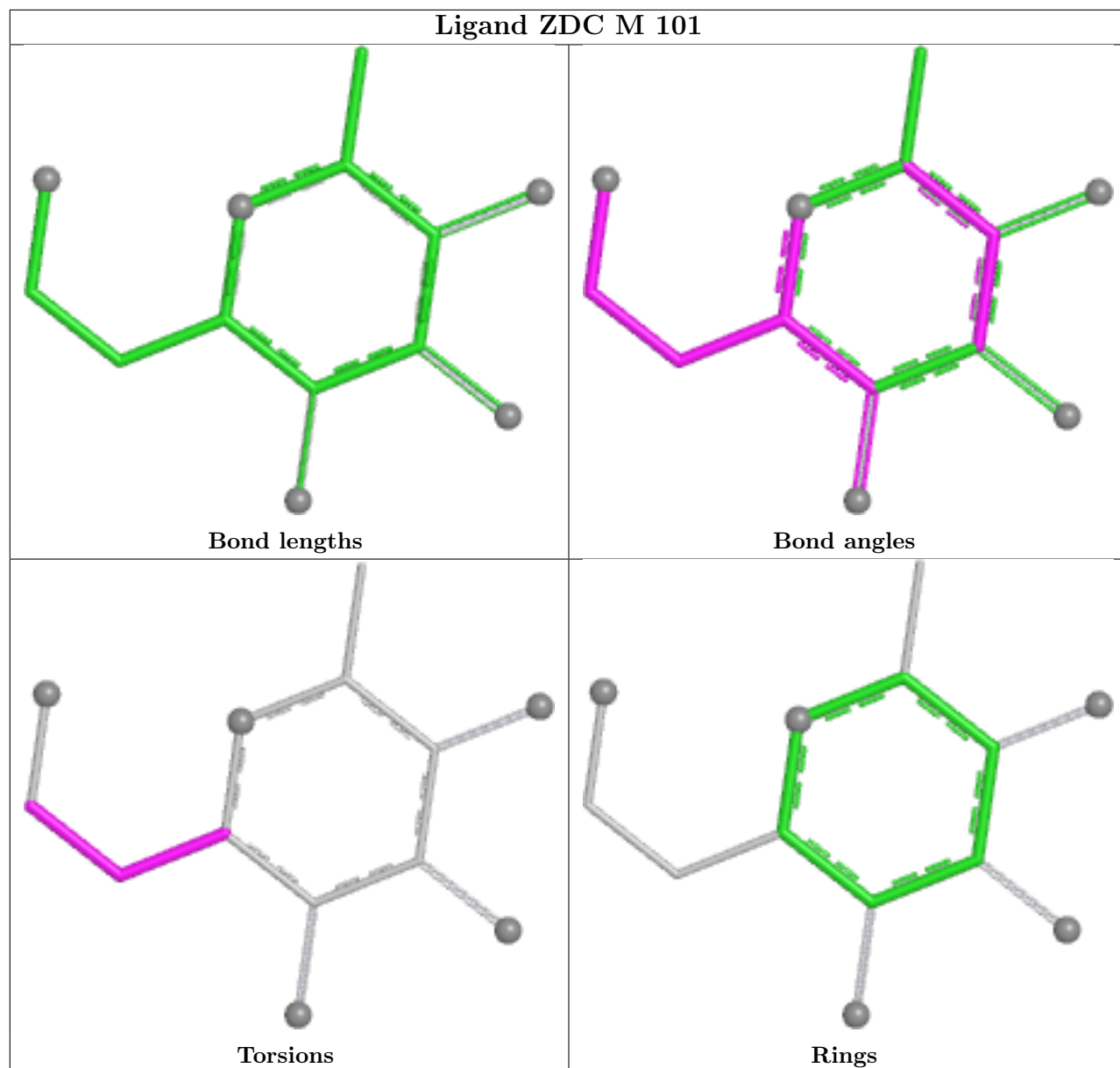


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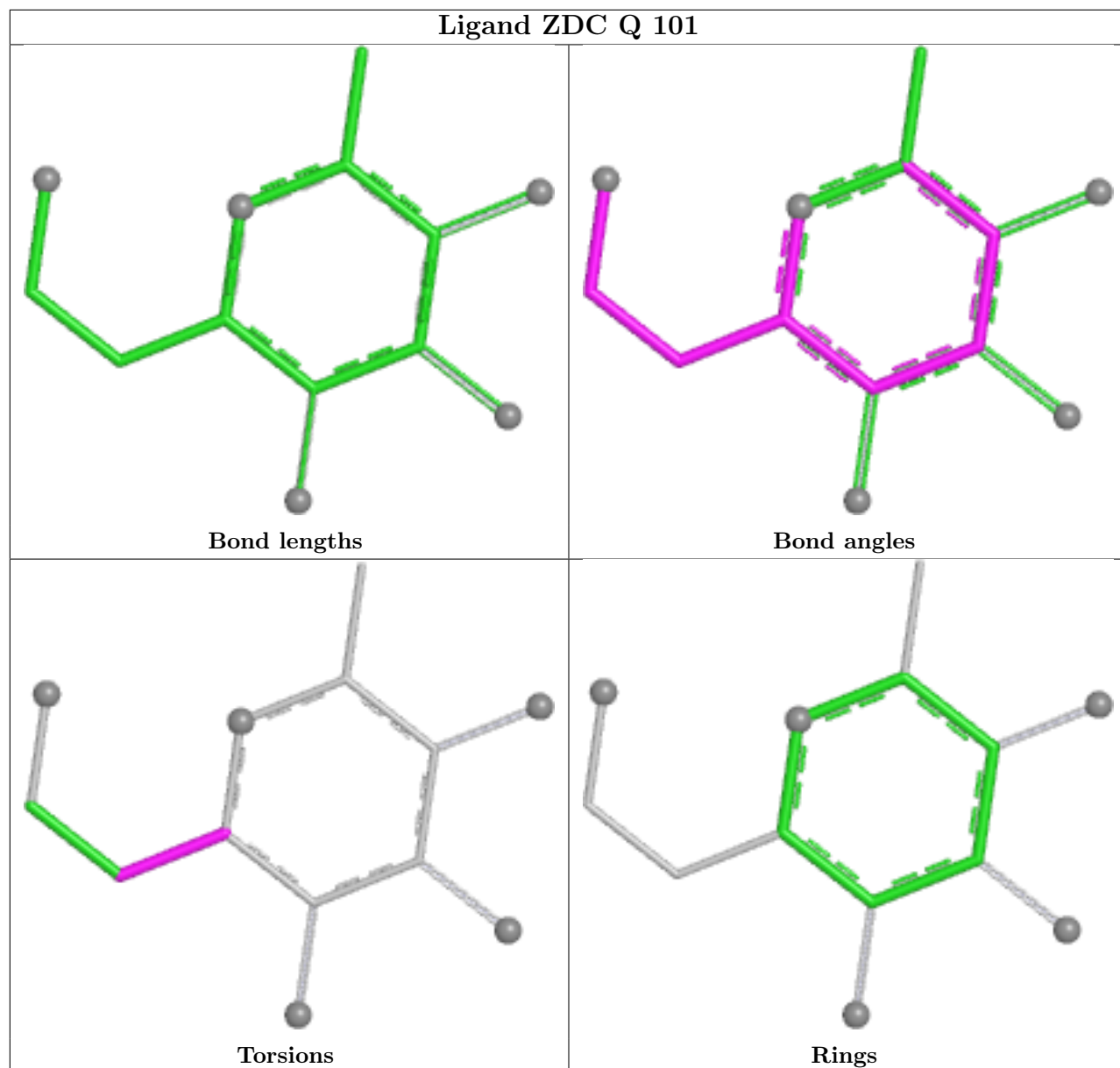


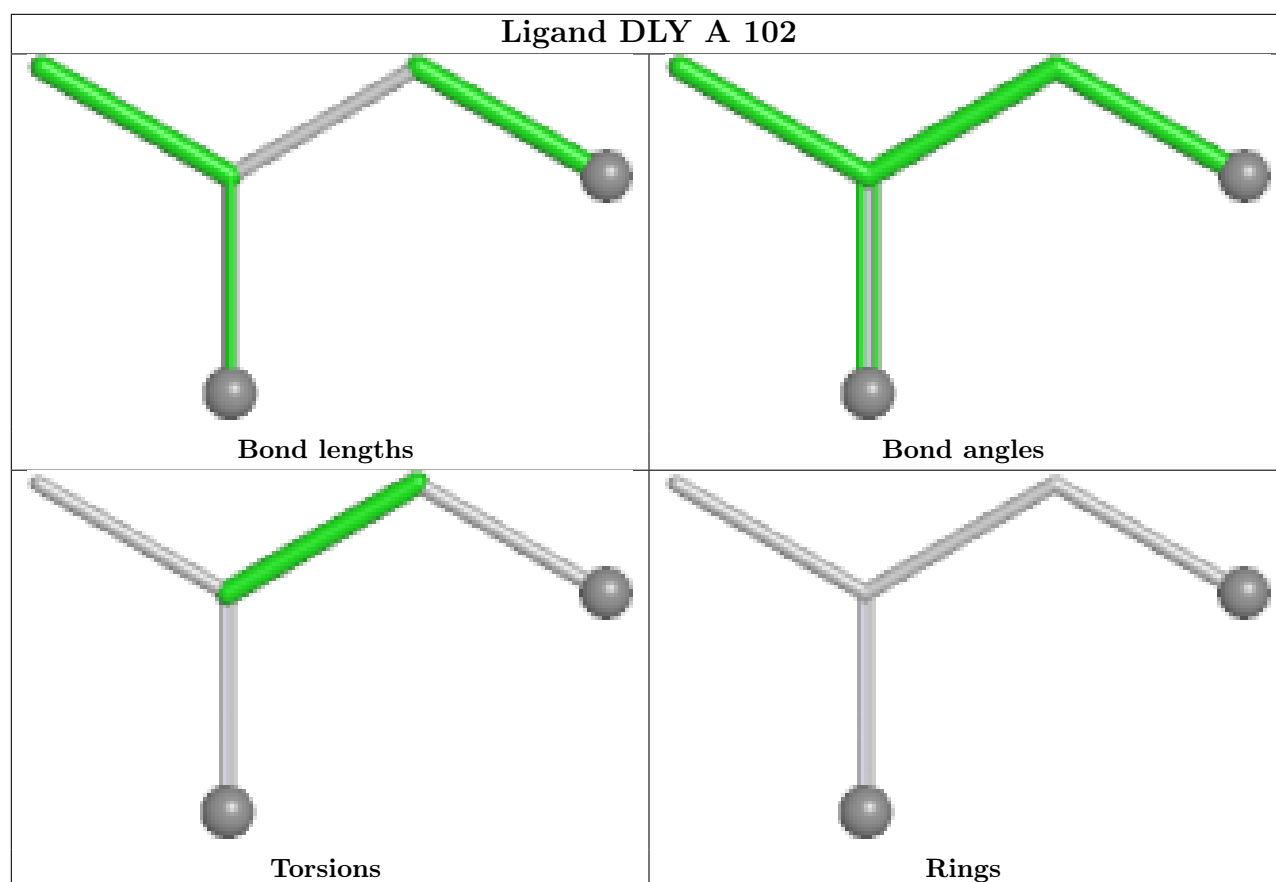
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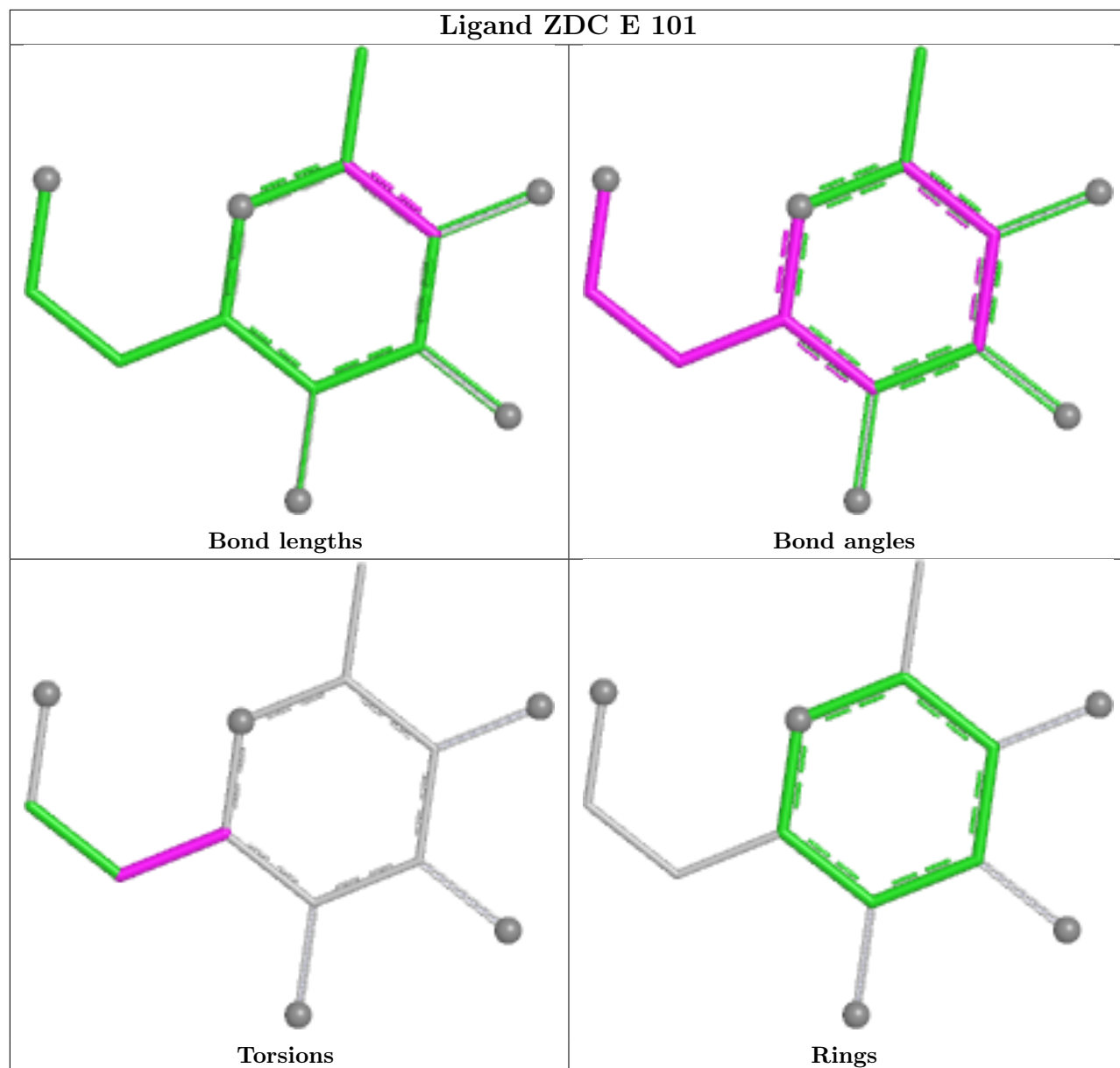


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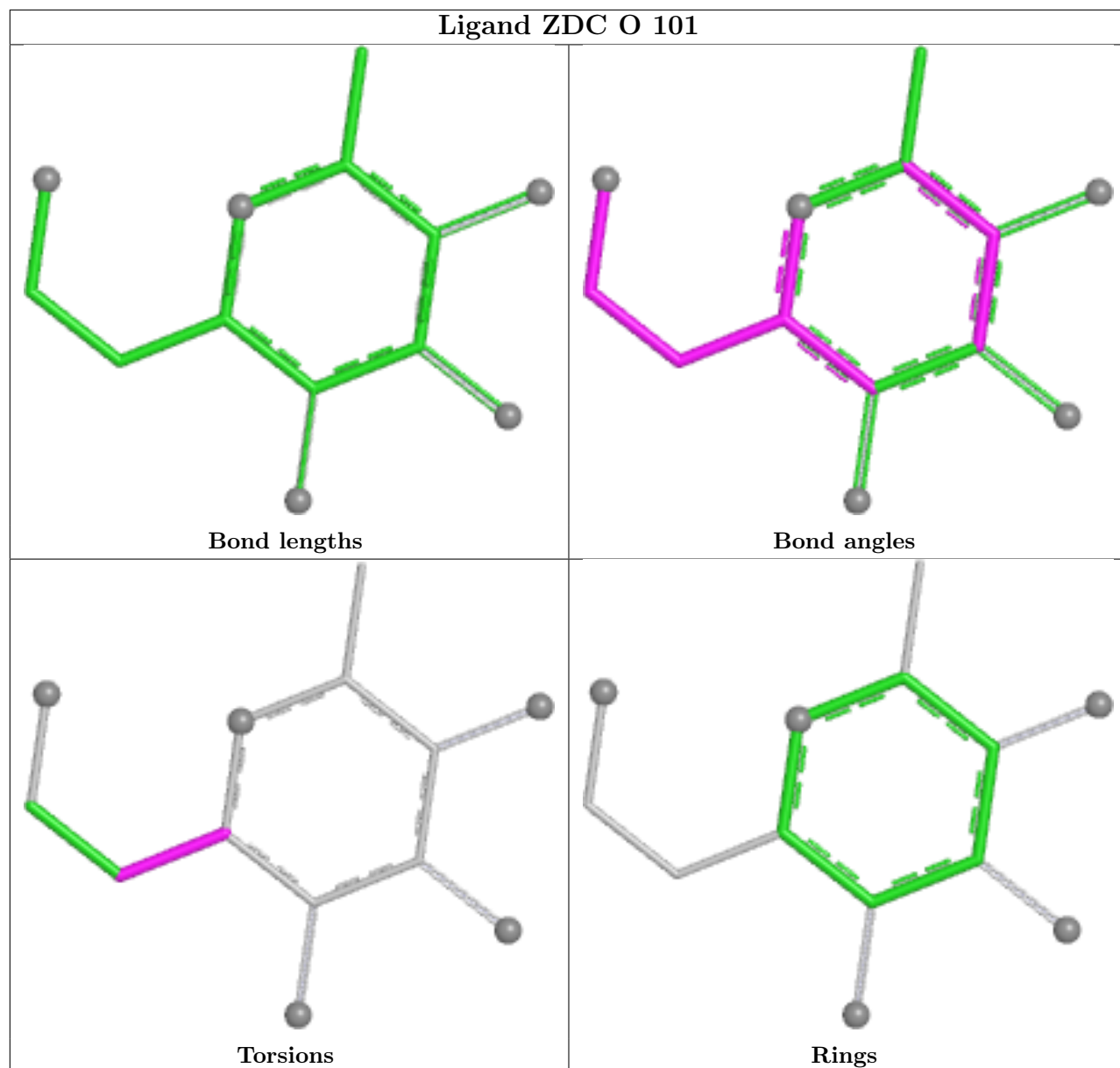




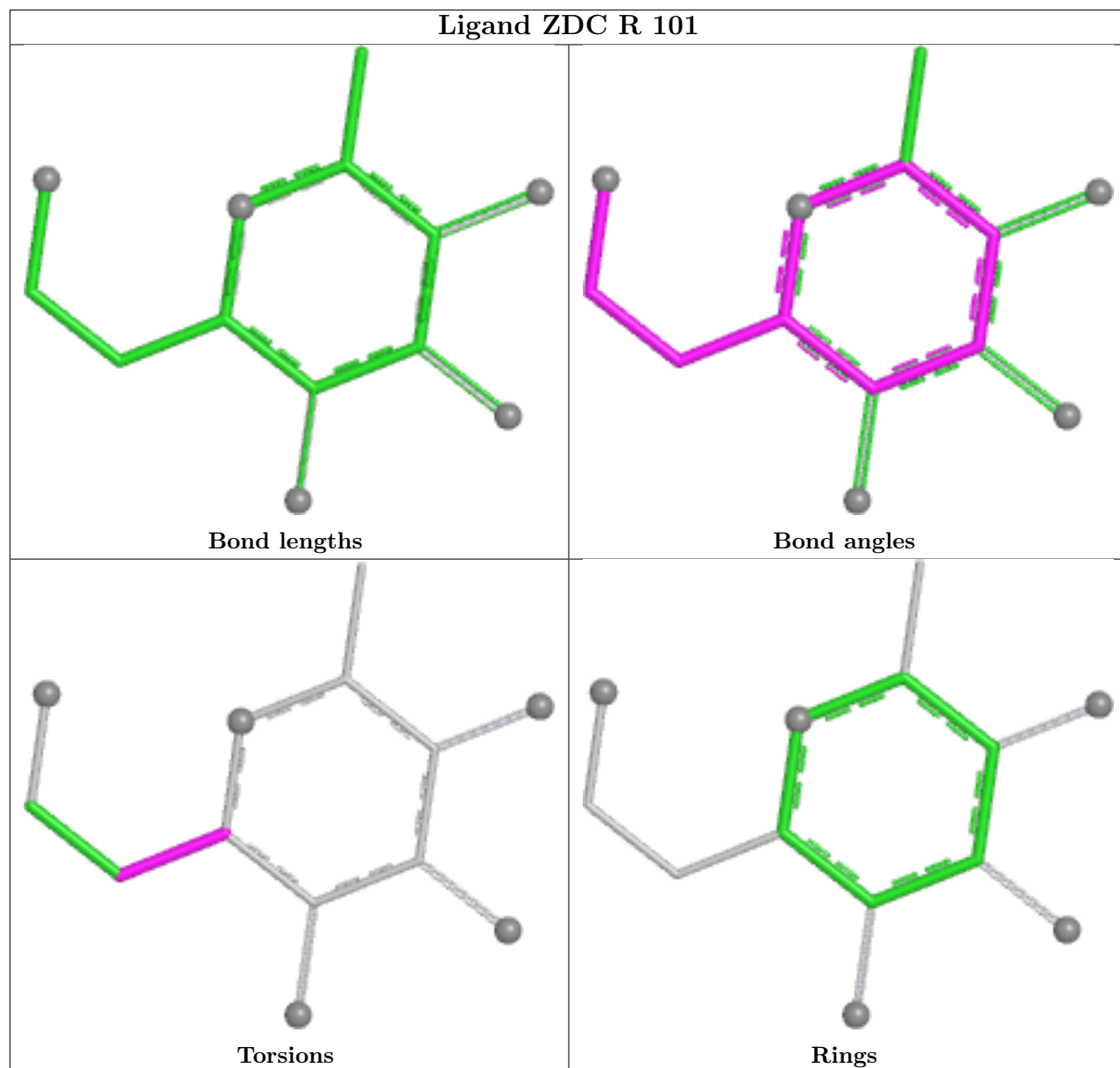
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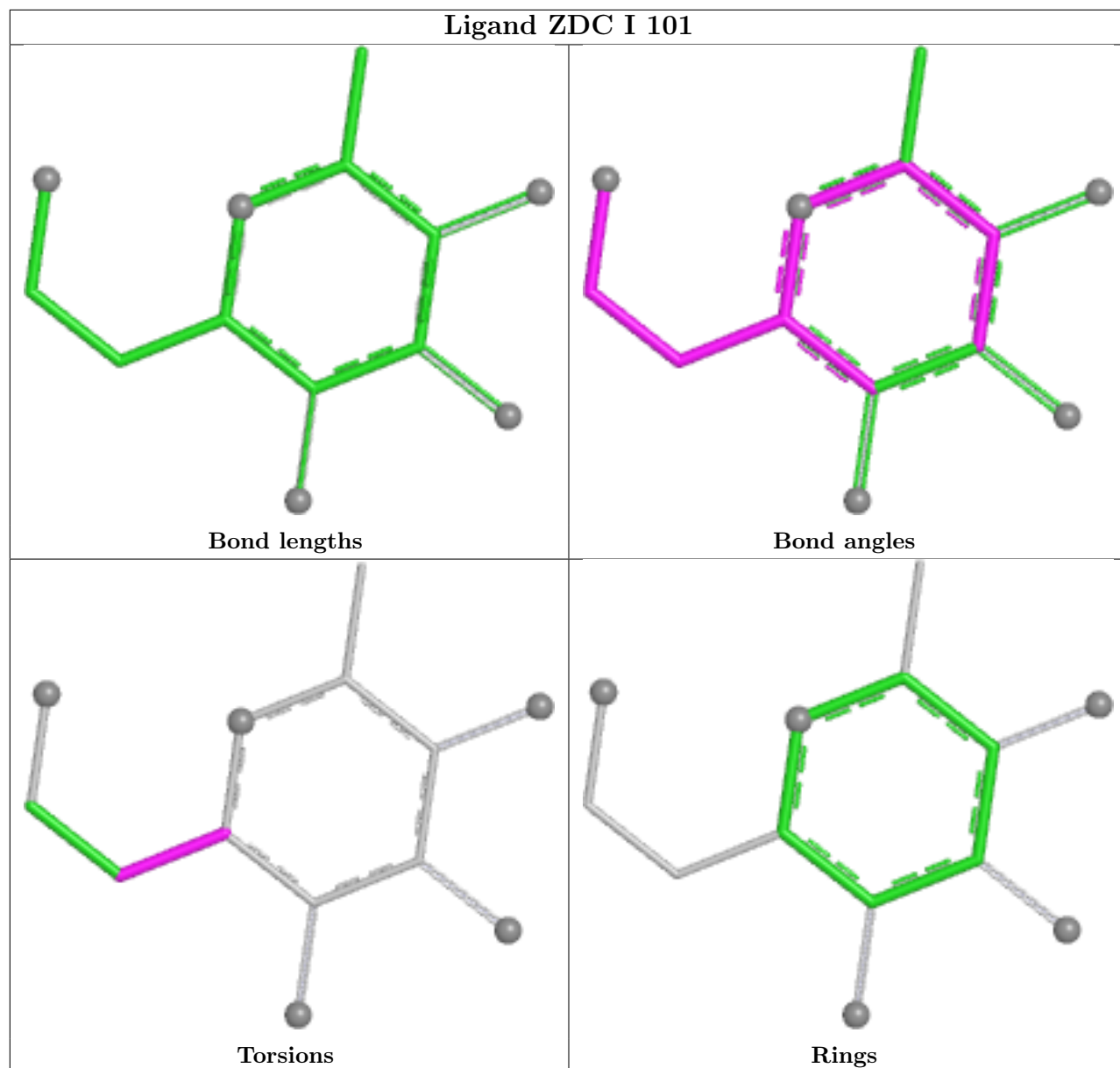
Ligand ZDC O 101



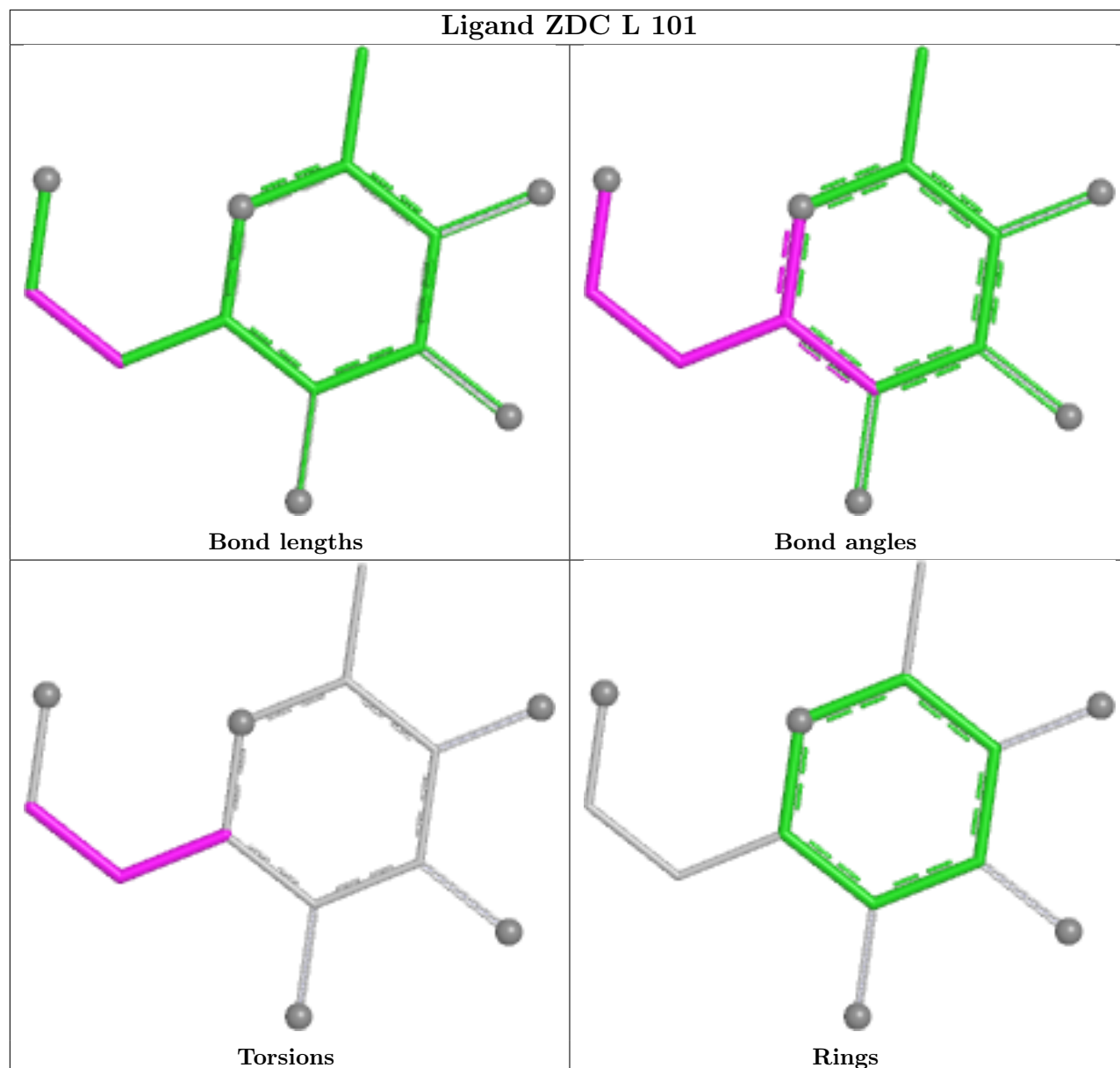
Ligand ZDC R 101



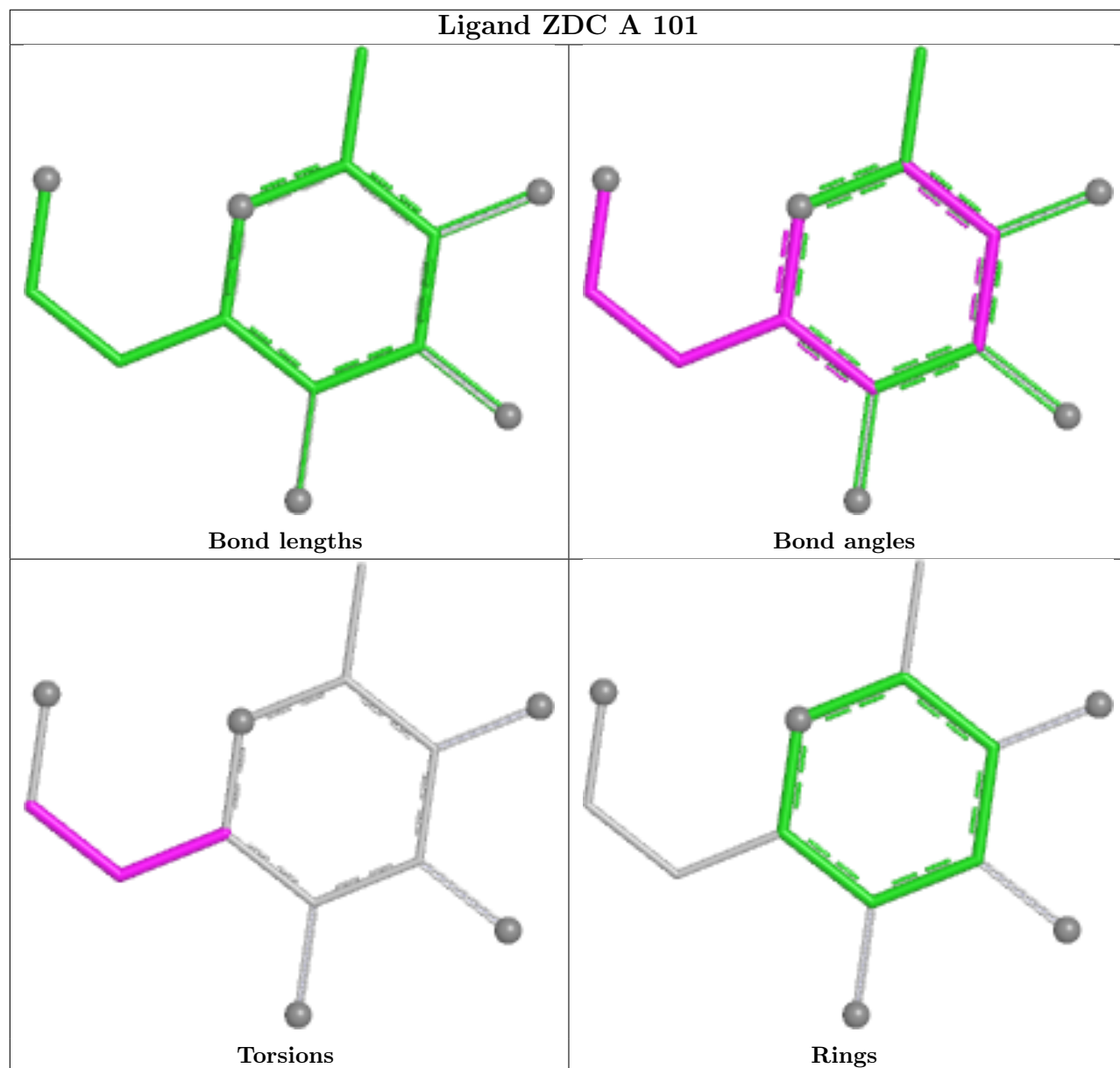
Ligand ZDC I 101

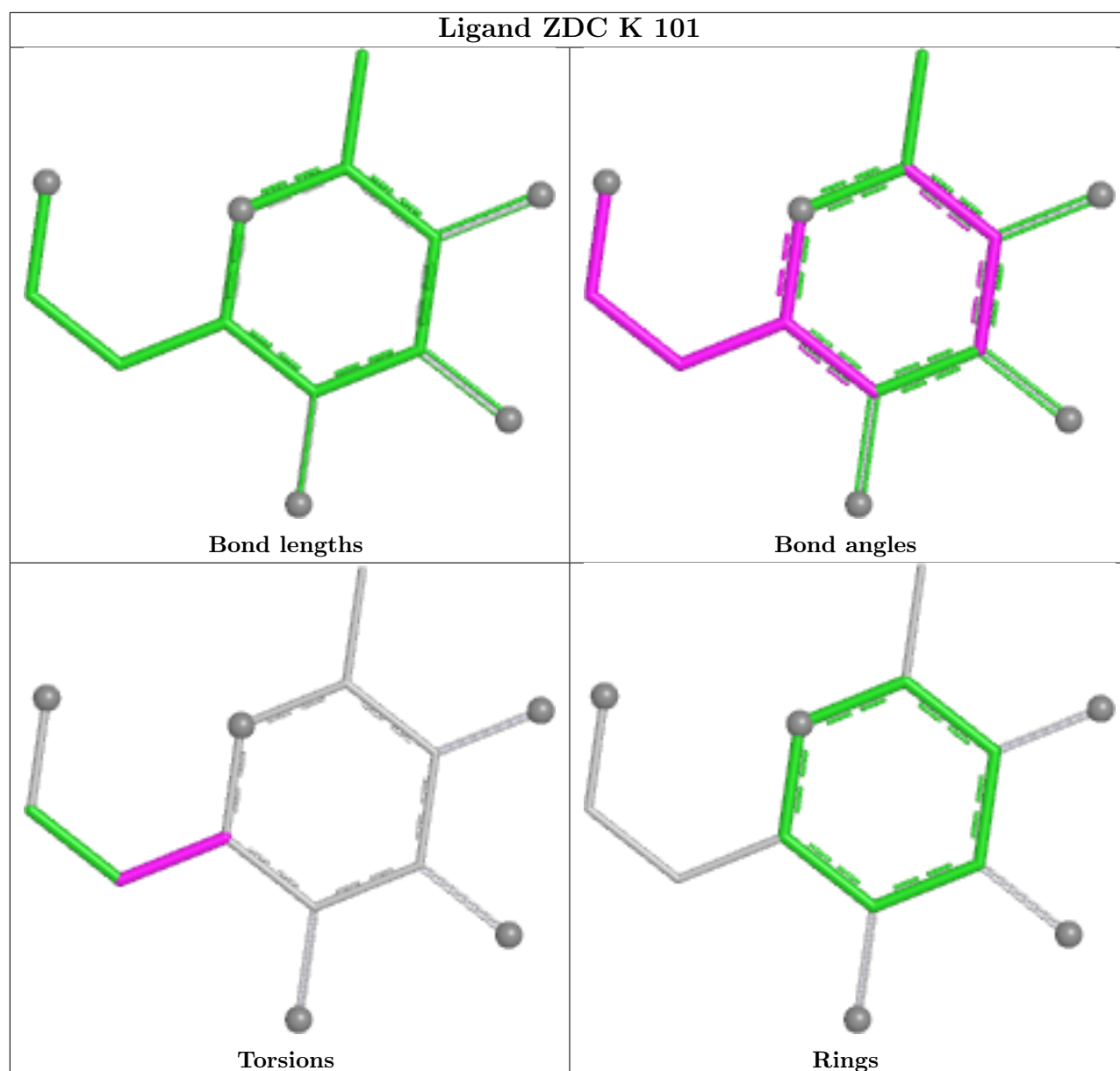


Ligand ZDC L 101



Ligand ZDC A 101





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	89/91 (97%)	2.39	50 (56%) 0 0	66, 87, 112, 120	1 (1%)
1	B	89/91 (97%)	1.93	36 (40%) 0 0	59, 72, 93, 128	0
1	C	89/91 (97%)	1.95	43 (48%) 0 0	52, 67, 91, 106	0
1	D	89/91 (97%)	1.95	34 (38%) 1 0	47, 64, 82, 110	1 (1%)
1	E	89/91 (97%)	2.00	41 (46%) 0 0	55, 69, 84, 93	0
1	F	89/91 (97%)	1.94	35 (39%) 1 0	55, 65, 83, 92	0
2	I	0/12	-	-	-	-
2	K	0/12	-	-	-	-
2	R	0/12	-	-	-	-
3	J	0/13	-	-	-	-
3	L	0/13	-	-	-	-
3	M	0/13	-	-	-	-
3	O	0/13	-	-	-	-
3	Q	0/13	-	-	-	-
All	All	534/647 (82%)	2.03	239 (44%) 0 0	47, 70, 98, 128	2 (0%)

The worst 5 of 239 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	89	THR	9.0
1	C	89	THR	6.2
1	F	89	THR	6.2
1	A	89	THR	6.0
1	C	88	ALA	5.4

6.2 Non-standard residues in protein, DNA, RNA chains [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	DAL	R	7	5/6	0.20	0.43	131,132,133,133	0
2	DAL	R	12	5/6	0.33	0.33	137,138,138,138	0
2	DLY	R	2	9/10	0.35	0.40	116,121,124,129	0
3	DLY	O	13	5/10	0.43	0.38	115,115,116,116	0
2	DLY	R	13	5/10	0.45	0.37	137,137,137,137	0
2	DLY	R	5	5/10	0.45	0.38	127,127,127,128	0
2	DTY	R	4	5/13	0.47	0.35	123,123,125,125	0
2	DLE	R	8	8/9	0.49	0.47	133,134,134,135	0
3	DLY	M	6	9/10	0.51	0.34	87,90,91,92	0
2	DLE	R	11	5/9	0.51	0.33	137,137,137,138	0
2	DLY	R	9	5/10	0.52	0.37	135,135,136,136	0
2	DLE	K	8	8/9	0.55	0.41	96,98,99,100	0
3	DLY	L	6	9/10	0.57	0.33	100,102,102,103	0
3	DLY	L	5	5/10	0.60	0.26	98,98,98,99	0
3	DLY	Q	6	9/10	0.61	0.30	92,93,95,96	0
3	DLY	M	13	9/10	0.65	0.37	107,108,109,109	0
3	DLY	O	5	5/10	0.65	0.34	95,97,99,99	0
3	DLY	Q	13	9/10	0.66	0.38	121,122,123,123	0
3	DLY	O	6	9/10	0.68	0.32	101,102,102,103	0
3	DLY	Q	10	9/10	0.68	0.36	118,120,121,121	0
3	DLE	O	11	5/9	0.68	0.36	114,114,115,115	0
3	DAL	M	12	5/6	0.69	0.31	107,108,108,108	0
3	DLY	J	5	6/10	0.69	0.30	95,95,95,96	0
3	DLY	J	2	9/10	0.71	0.27	85,89,89,89	0
3	DLY	J	6	6/10	0.72	0.26	95,96,97,97	0
3	DLY	Q	9	9/10	0.75	0.32	112,115,116,117	0
3	DLE	L	11	5/9	0.75	0.26	101,102,102,103	0
3	DLY	J	10	9/10	0.75	0.26	96,98,99,100	0
3	DLE	Q	11	8/9	0.75	0.47	122,123,124,124	0
3	DLY	M	10	9/10	0.76	0.25	103,104,105,105	0
3	DLY	M	5	9/10	0.76	0.23	78,83,87,89	0
3	DLY	L	9	5/10	0.76	0.25	102,102,103,103	0
3	DLY	L	13	6/10	0.78	0.24	103,104,104,105	0
3	DTY	L	4	12/13	0.78	0.25	94,97,98,98	0
3	DLE	M	14	8/9	0.78	0.33	107,108,108,108	0
3	DLE	O	14	8/9	0.78	0.36	113,115,116,117	0
3	DLE	Q	14	8/9	0.78	0.34	121,122,123,123	0
3	DLY	L	10	6/10	0.79	0.25	102,102,103,103	0
3	DLY	M	9	9/10	0.79	0.27	100,101,102,102	0
3	DLY	O	10	5/10	0.80	0.24	111,112,112,112	0
2	DLY	R	6	9/10	0.81	0.33	129,130,131,131	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	DAL	K	7	5/6	0.81	0.30	88,90,93,93	0
3	DLY	L	2	9/10	0.81	0.26	90,92,94,94	0
3	DAL	L	12	5/6	0.81	0.28	103,103,104,104	0
3	DLY	J	13	6/10	0.82	0.18	95,96,96,96	0
3	DLE	J	14	8/9	0.82	0.28	96,96,96,98	0
3	DAL	J	7	5/6	0.82	0.23	95,95,96,96	0
3	DLE	M	11	8/9	0.82	0.30	104,106,106,106	0
3	DAL	Q	7	5/6	0.82	0.19	98,100,101,101	0
3	DAL	O	12	5/6	0.83	0.26	115,115,116,116	0
3	DAL	L	7	5/6	0.83	0.29	102,103,103,103	0
3	DLE	J	11	8/9	0.84	0.28	96,96,96,97	0
3	DAL	Q	12	5/6	0.85	0.30	123,123,124,124	0
3	DLY	Q	5	9/10	0.85	0.23	85,89,92,92	0
3	DLY	O	2	9/10	0.85	0.23	83,85,88,89	0
2	DAL	I	6	5/6	0.85	0.22	84,84,85,86	0
3	DLE	L	8	5/9	0.85	0.19	102,102,102,102	0
3	DTY	O	4	12/13	0.86	0.25	88,89,92,93	0
3	DAL	J	12	5/6	0.86	0.17	95,96,96,96	0
3	DLY	Q	2	9/10	0.86	0.22	72,75,81,83	0
2	DTY	I	3	12/13	0.86	0.19	73,75,76,76	0
3	DLY	J	9	6/10	0.86	0.20	97,98,99,100	0
2	DLY	R	10	5/10	0.87	0.28	136,136,137,137	0
3	DTY	J	4	12/13	0.87	0.22	91,94,95,96	0
2	DLY	I	4	9/10	0.88	0.23	78,79,82,83	0
3	DTY	Q	4	12/13	0.88	0.19	75,77,80,82	0
3	DLE	L	14	8/9	0.89	0.25	102,104,104,104	0
3	DAL	O	7	5/6	0.90	0.20	105,105,106,106	0
2	DLY	I	2	9/10	0.90	0.18	70,71,72,73	0
2	DLY	K	5	9/10	0.90	0.20	71,72,74,75	0
3	DLY	M	2	7/10	0.90	0.19	64,67,69,70	0
2	DTY	K	4	12/13	0.91	0.18	64,66,68,70	0
2	DLY	I	5	9/10	0.92	0.19	82,84,86,87	0
3	DTY	M	4	12/13	0.92	0.15	68,71,74,75	0
3	DLE	J	8	8/9	0.92	0.18	97,97,98,98	0
3	DLY	O	9	5/10	0.92	0.19	109,110,110,111	0
3	DAL	M	7	5/6	0.92	0.16	92,93,95,95	0
3	DLE	O	8	8/9	0.92	0.24	105,106,108,108	0
2	DLY	K	6	9/10	0.93	0.18	79,82,84,85	0
3	DLE	Q	8	8/9	0.93	0.19	104,105,108,109	0
2	DLY	K	2	9/10	0.95	0.14	58,61,63,65	0
3	DLE	M	8	8/9	0.95	0.14	94,96,97,98	0

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

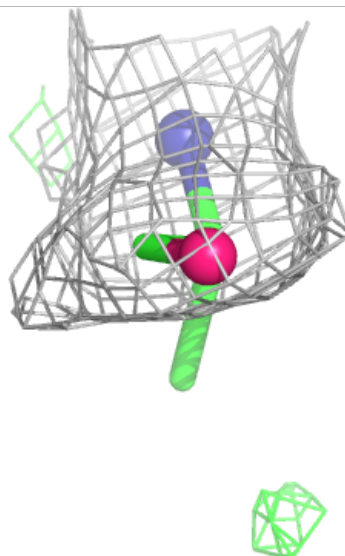
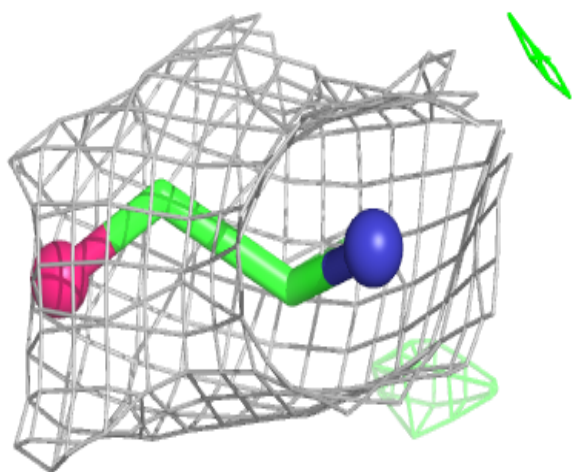
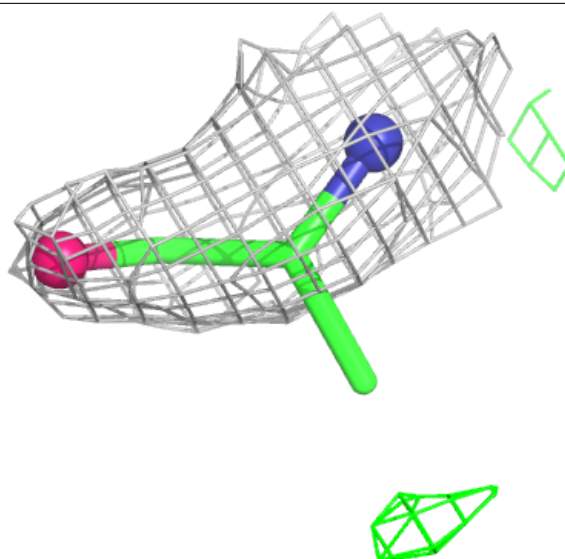
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	DLY	A	102	5/10	0.62	0.34	86,87,87,87	0
4	ZDC	E	101	13/14	0.84	0.17	57,61,63,63	0
4	ZDC	A	103	13/14	0.86	0.17	67,69,71,72	0
4	ZDC	R	101	13/14	0.88	0.30	86,91,115,120	0
4	ZDC	K	101	13/14	0.90	0.16	50,54,58,59	0
4	ZDC	A	101	13/14	0.90	0.16	79,80,85,85	0
4	ZDC	J	101	13/14	0.92	0.19	68,70,80,80	0
4	ZDC	O	101	13/14	0.92	0.21	70,72,80,81	0
4	ZDC	Q	101	13/14	0.92	0.15	59,63,68,68	0
4	ZDC	I	101	13/14	0.92	0.14	64,66,68,68	0
4	ZDC	D	101	13/14	0.92	0.12	60,62,65,66	0
4	ZDC	M	101	13/14	0.93	0.14	56,58,62,63	0
4	ZDC	L	101	13/14	0.93	0.15	79,80,87,87	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.

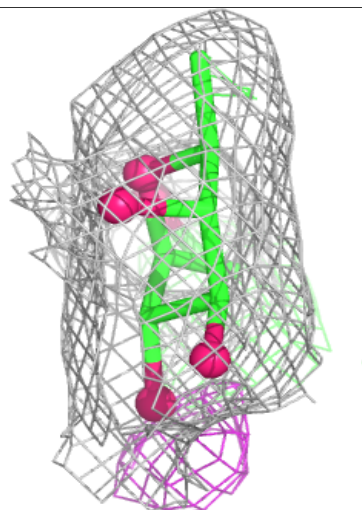
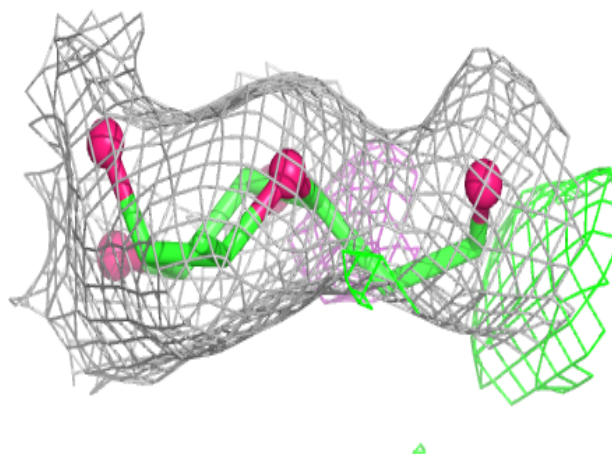
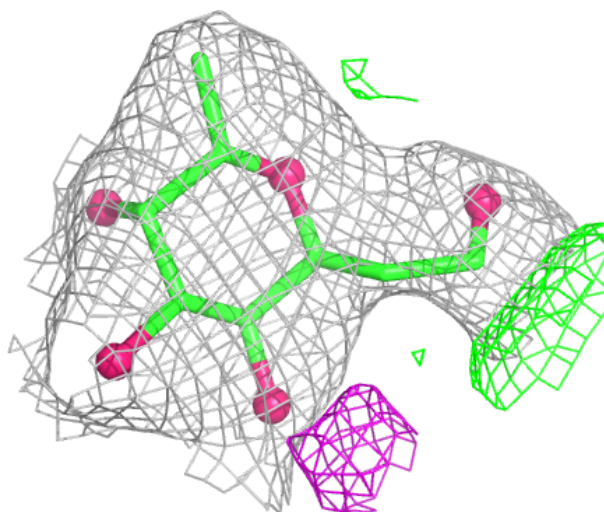
Electron density around DLY A 102:

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



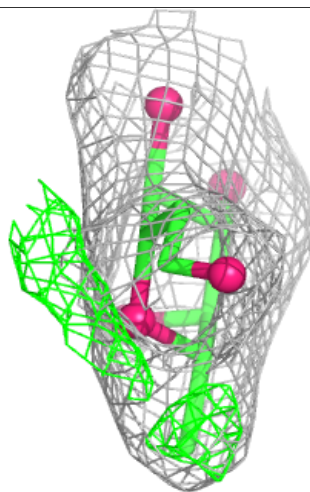
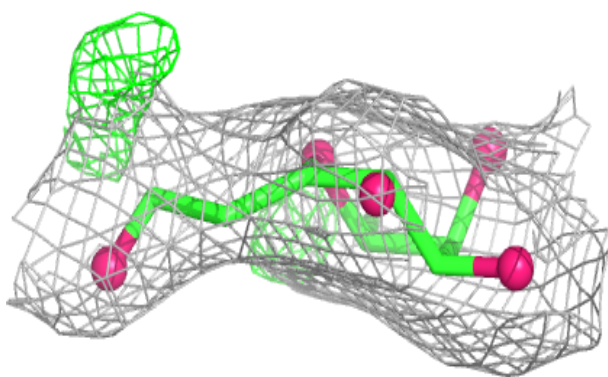
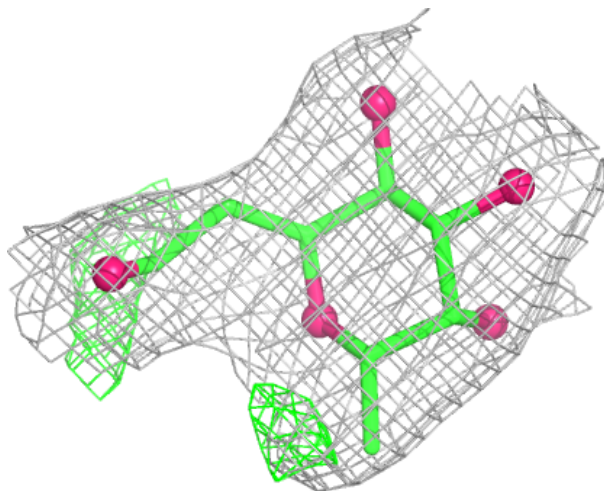
Electron density around ZDC E 101:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



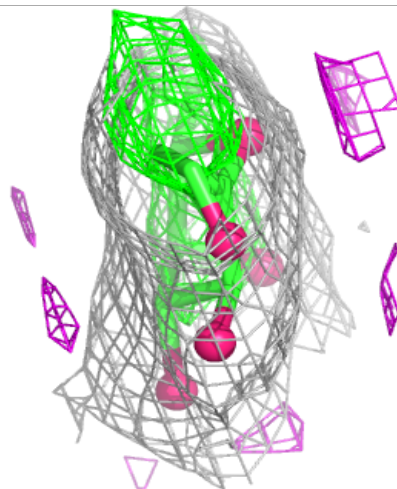
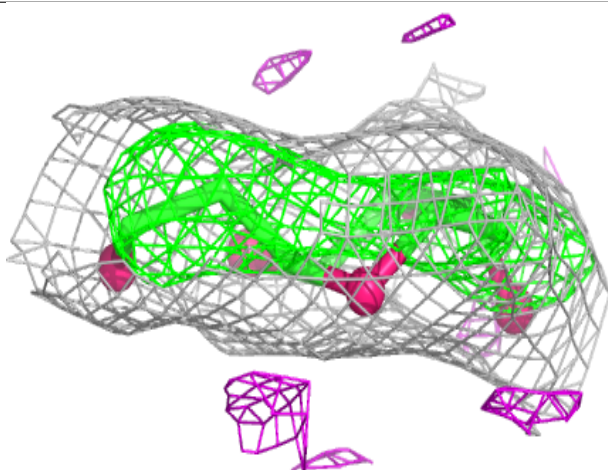
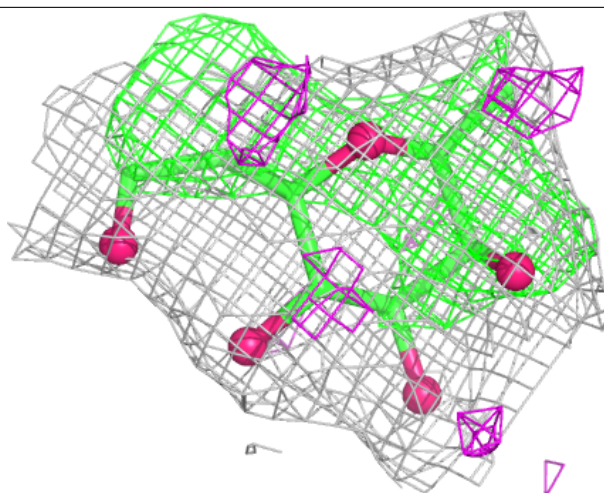
Electron density around ZDC A 103:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



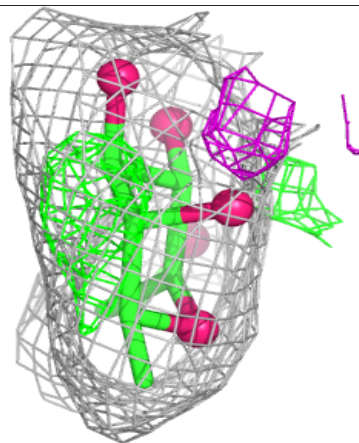
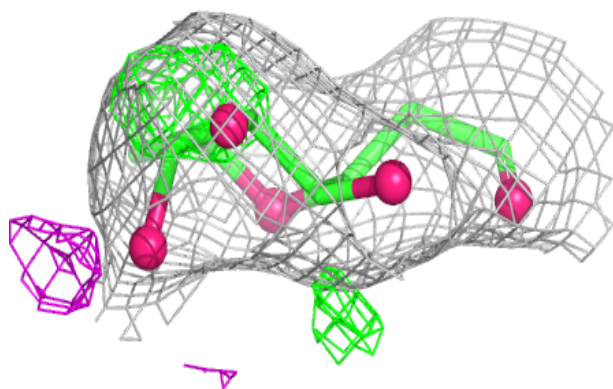
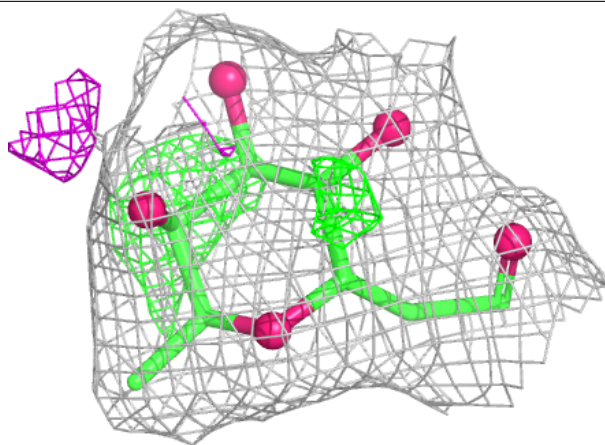
Electron density around ZDC R 101:

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and green (positive)



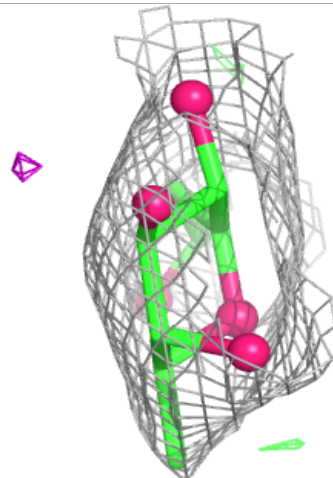
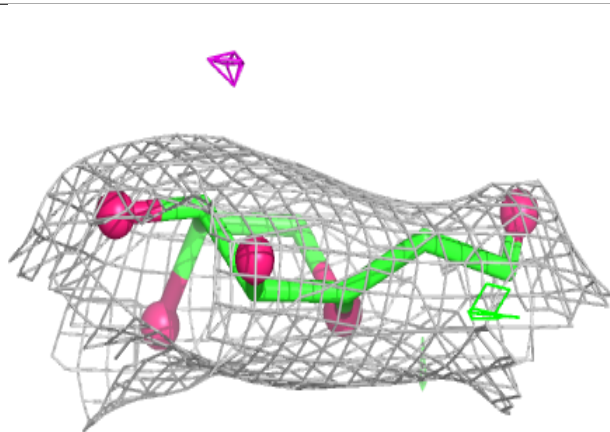
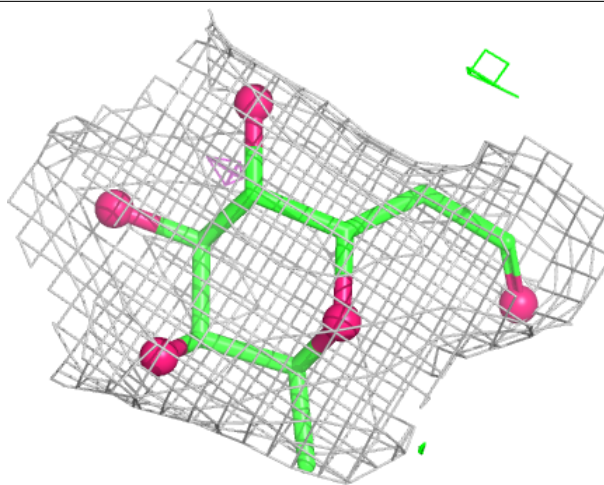
Electron density around ZDC K 101:

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and green (positive)



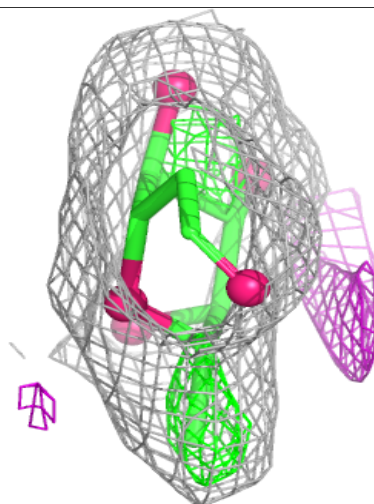
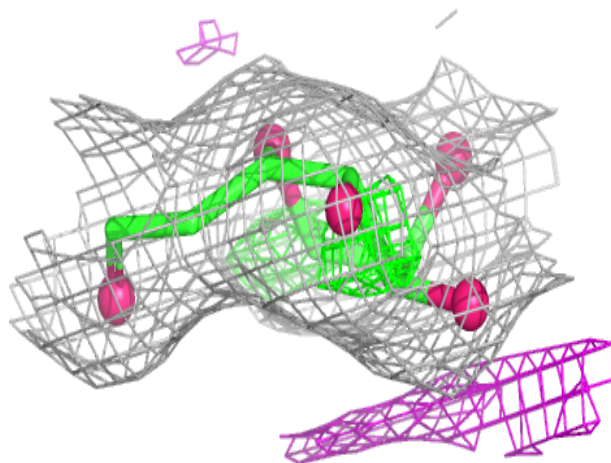
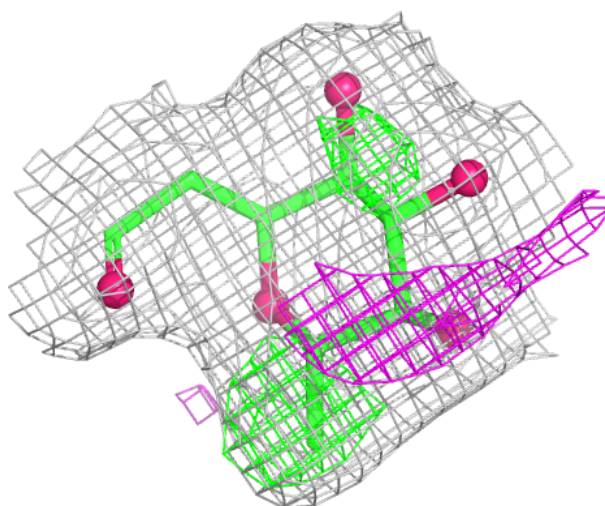
Electron density around ZDC A 101:

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and green (positive)



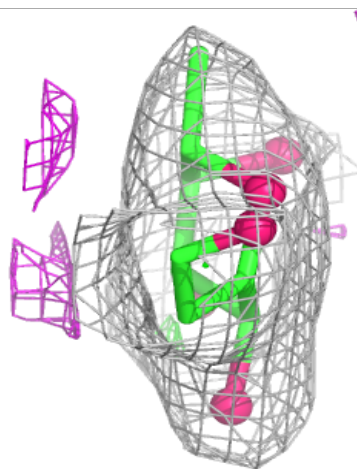
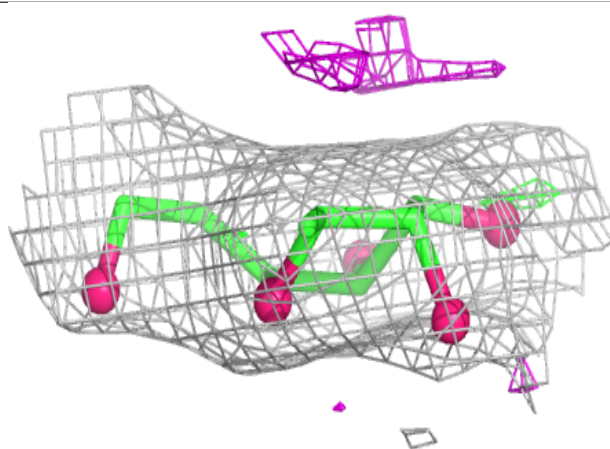
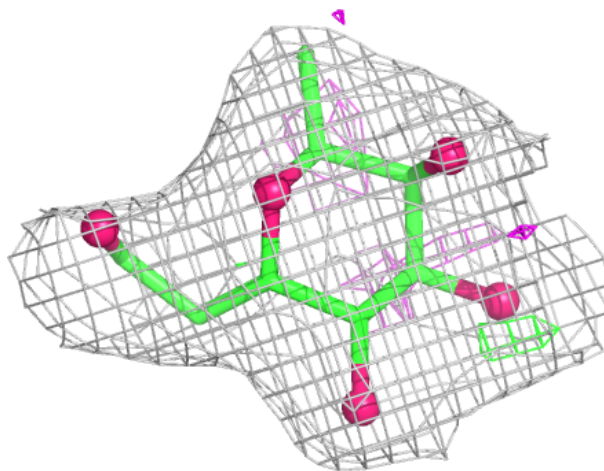
Electron density around ZDC J 101:

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and green (positive)



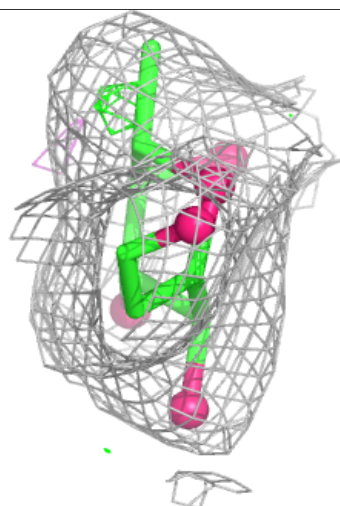
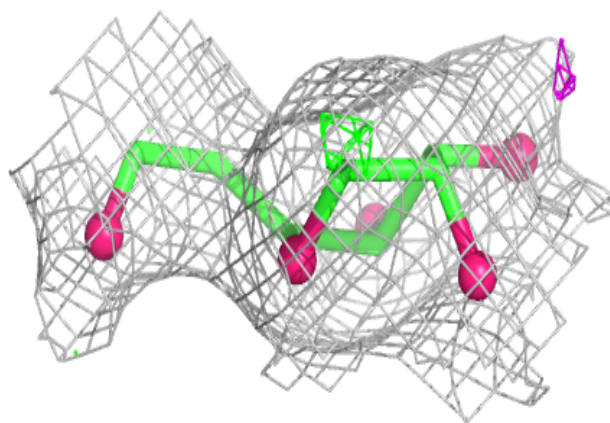
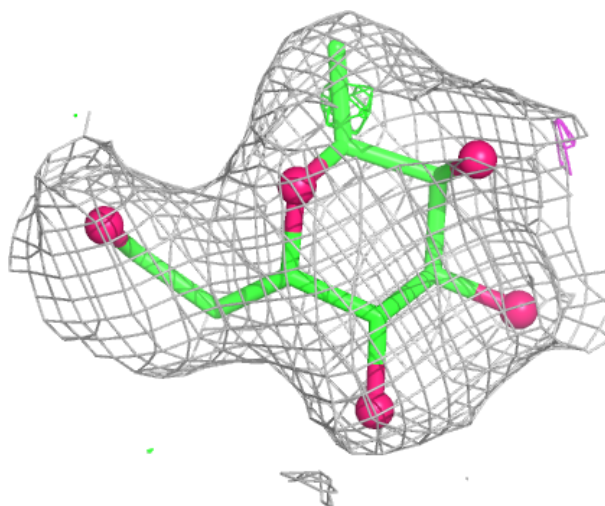
Electron density around ZDC O 101:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



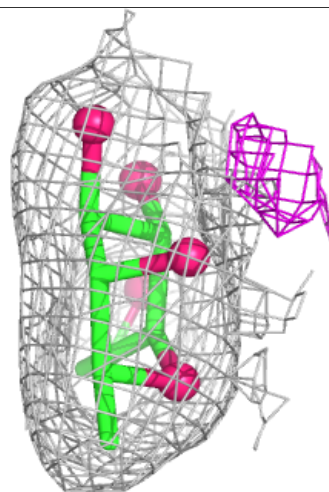
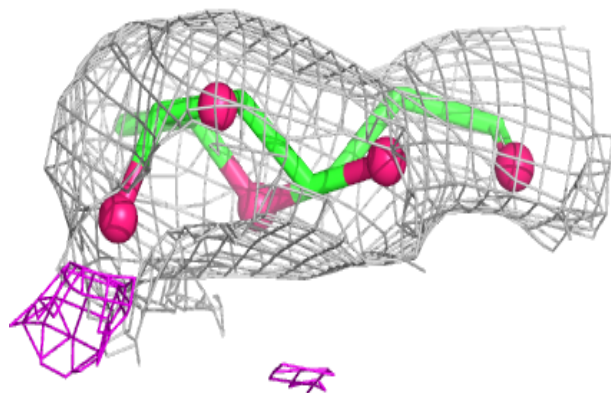
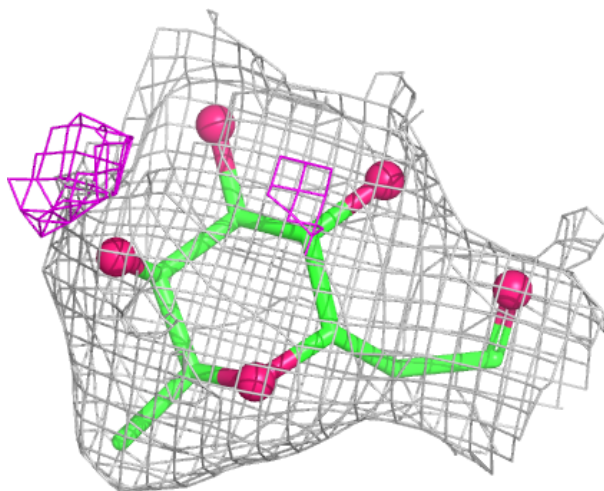
Electron density around ZDC Q 101:

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and green (positive)



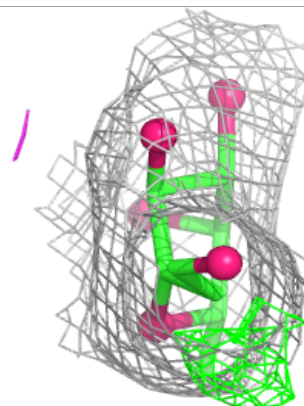
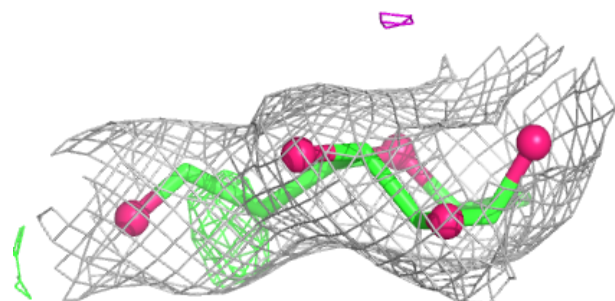
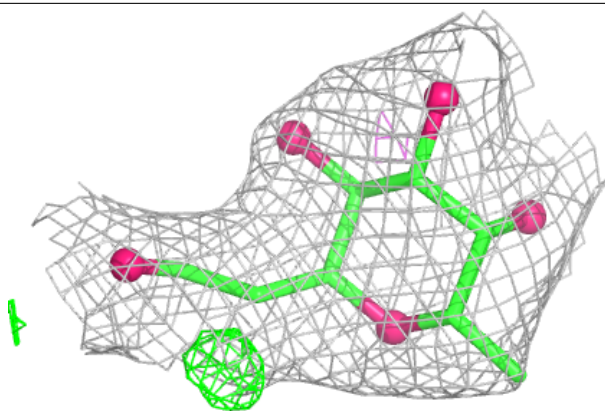
Electron density around ZDC I 101:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



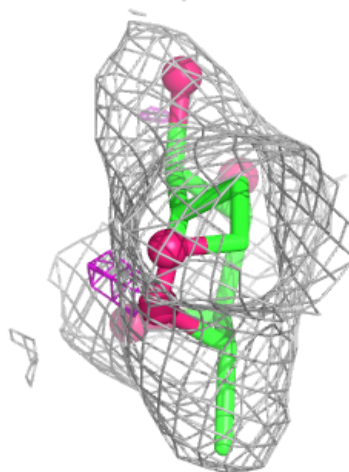
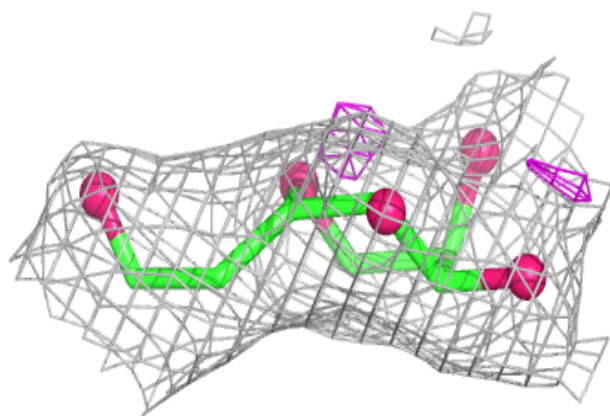
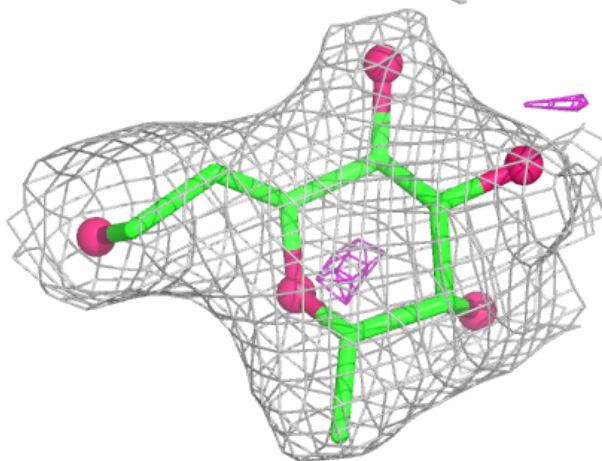
Electron density around ZDC D 101:

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



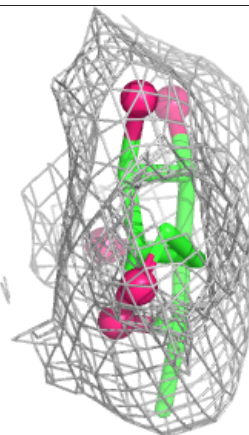
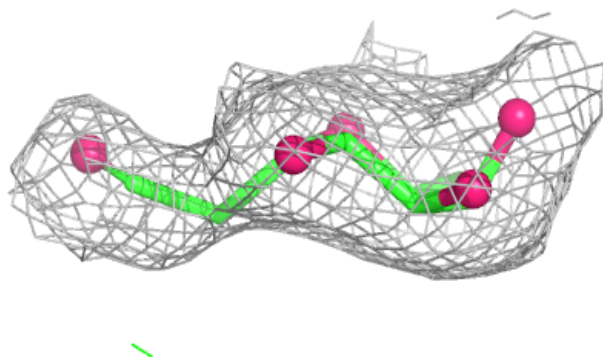
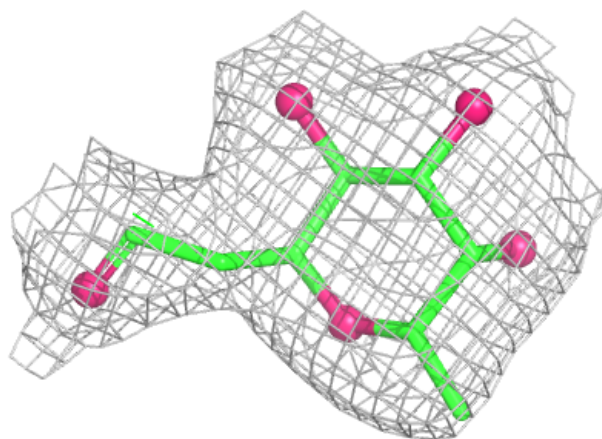
Electron density around ZDC M 101:

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



Electron density around ZDC L 101:

$2mF_o-DF_c$ (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.