



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 06:39 AM UTC

PDB ID : 7RMJ / pdb_00007rmj
Title : Disulfide stabilized HIV-1 CA hexamer in complex with capsid inhibitor (S)-N-(1-(3-(4-chloro-3-(methylsulfonamido)-1-(2,2,2-trifluoroethyl)-1H-indazol-7-yl)-6-(3-methyl-3-(methylsulfonyl)but-1-yn-1-yl)pyridin-2-yl)-2-(3,5-difluorophenyl)ethyl)-2-(3-(trifluoromethyl)-4,5,6,7-tetrahydro-1H-indazol-1-yl)acetamide
Authors : Bester, S.M.; Kvaratskhelia, M.
Deposited on : 2021-07-27
Resolution : 2.27 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/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)

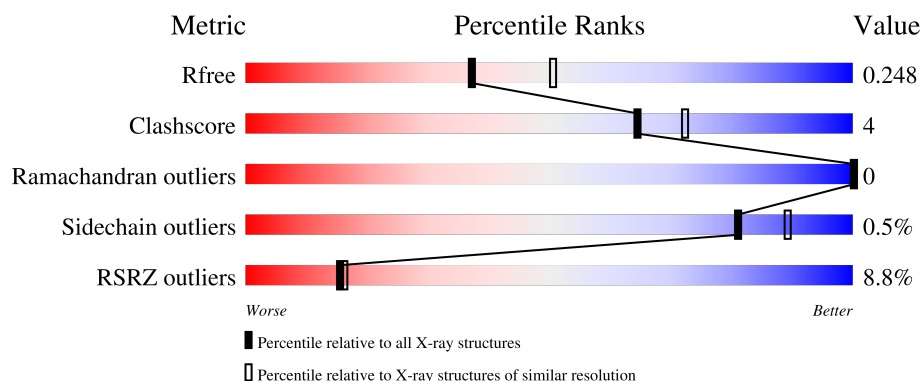
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.27 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	9078 (2.30-2.26)
Clashscore	190562	9802 (2.30-2.26)
Ramachandran outliers	187476	9690 (2.30-2.26)
Sidechain outliers	187428	9691 (2.30-2.26)
RSRZ outliers	180081	9085 (2.30-2.26)

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	231	
1	B	231	
1	C	231	

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 5698 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.

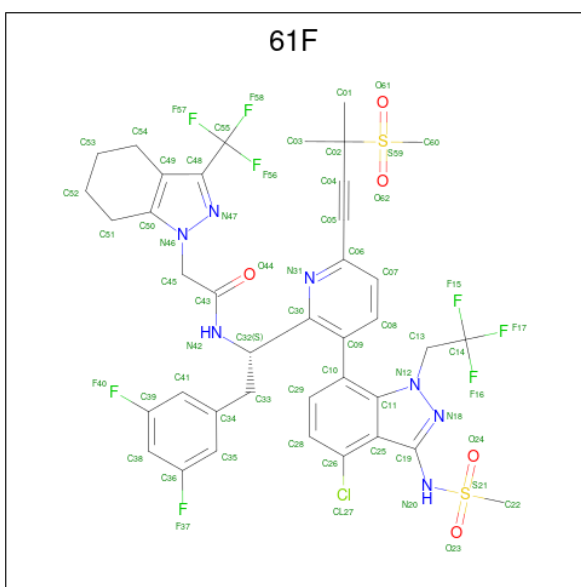
- Molecule 1 is a protein called CAPSID PROTEIN P24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	219	Total	C	N	O	S	0	1	0
			1705	1072	299	320	14			
1	B	218	Total	C	N	O	S	0	2	0
			1693	1065	299	315	14			
1	C	220	Total	C	N	O	S	0	0	0
			1686	1061	294	317	14			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	14	CYS	ALA	engineered mutation	UNP B6DRA0
A	45	CYS	GLU	engineered mutation	UNP B6DRA0
A	184	ALA	TRP	engineered mutation	UNP B6DRA0
A	185	ALA	MET	engineered mutation	UNP B6DRA0
B	14	CYS	ALA	engineered mutation	UNP B6DRA0
B	45	CYS	GLU	engineered mutation	UNP B6DRA0
B	184	ALA	TRP	engineered mutation	UNP B6DRA0
B	185	ALA	MET	engineered mutation	UNP B6DRA0
C	14	CYS	ALA	engineered mutation	UNP B6DRA0
C	45	CYS	GLU	engineered mutation	UNP B6DRA0
C	184	ALA	TRP	engineered mutation	UNP B6DRA0
C	185	ALA	MET	engineered mutation	UNP B6DRA0

- Molecule 2 is N-[(1S)-1-(3-{4-chloro-3-[(methanesulfonyl)amino]-1-(2,2,2-trifluoroethyl)-1H-indazol-7-yl}-6-[3-(methanesulfonyl)-3-methylbut-1-yn-1-yl]pyridin-2-yl)-2-(3,5-difluorophenyl)ethyl]-2-[3-(trifluoromethyl)-4,5,6,7-tetrahydro-1H-indazol-1-yl]acetamide (CCD ID: 61F) (formula: C₃₉H₃₆ClF₈N₇O₅S₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms							ZeroOcc	AltConf
2	A	1	Total	C	Cl	F	N	O	S	0	1
			124	78	2	16	14	10	4		
2	B	1	Total	C	Cl	F	N	O	S	0	1
			124	78	2	16	14	10	4		
2	C	1	Total	C	Cl	F	N	O	S	0	1
			124	78	2	16	14	10	4		

- Molecule 3 is IODIDE ION (CCD ID: IOD) (formula: I).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total	I	0
			1	1	
3	B	2	Total	I	0
			2	2	
3	C	2	Total	I	0
			2	2	

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	5	Total	Cl	0
			5	5	
4	B	5	Total	Cl	0
			5	5	
4	C	7	Total	Cl	0
			7	7	

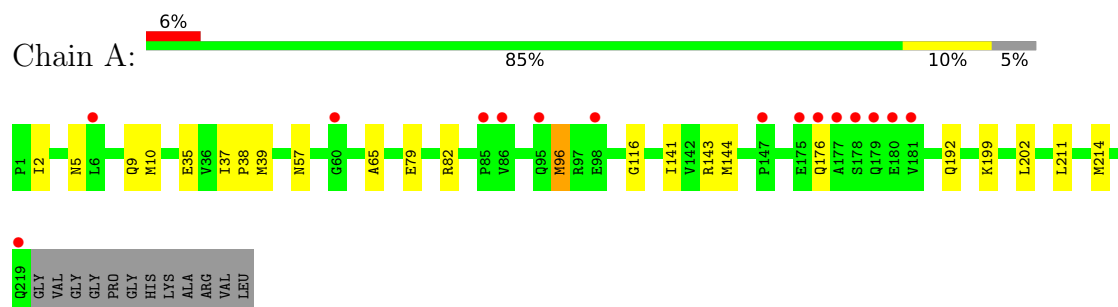
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	66	Total 66	O 66	0	0
5	B	59	Total 59	O 59	0	0
5	C	95	Total 95	O 95	0	0

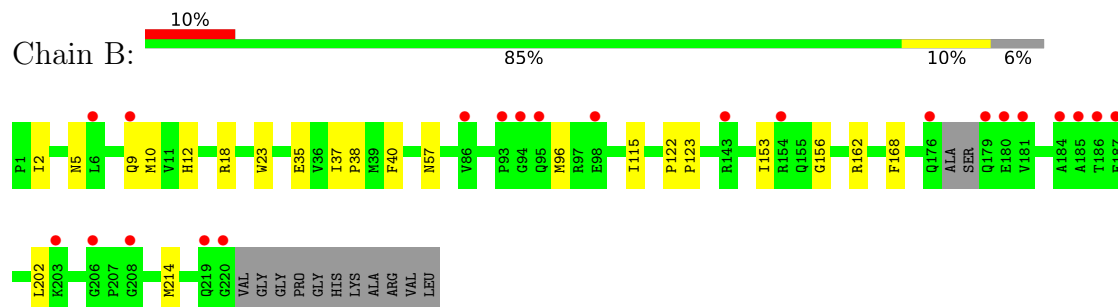
3 Residue-property plots [i](#)

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.

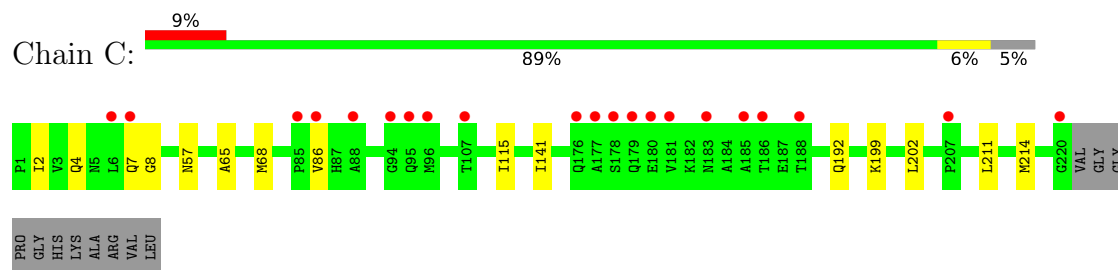
• Molecule 1: CAPSID PROTEIN P24



• Molecule 1: CAPSID PROTEIN P24



• Molecule 1: CAPSID PROTEIN P24



4 Data and refinement statistics

Property	Value	Source
Space group	P 6	Depositor
Cell constants a, b, c, α , β , γ	160.02Å 160.02Å 57.60Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	44.29 – 2.27 44.29 – 2.27	Depositor EDS
% Data completeness (in resolution range)	99.7 (44.29-2.27) 99.7 (44.29-2.27)	Depositor EDS
R_{merge}	0.20	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 2.27Å)	Xtriage
Refinement program	PHENIX 1.18.2_3874	Depositor
R, R_{free}	0.214 , 0.248 0.215 , 0.248	Depositor DCC
R_{free} test set	1892 reflections (4.83%)	wwPDB-VP
Wilson B-factor (Å ²)	26.7	Xtriage
Anisotropy	0.066	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 44.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.037 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	5698	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 32.72 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 8.9722e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: 61F, IOD, CL

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	0.11	0/1742	0.30	0/2368
1	B	0.12	0/1729	0.32	0/2350
1	C	0.12	0/1723	0.32	0/2345
All	All	0.12	0/5194	0.31	0/7063

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1705	0	1704	14	0
1	B	1693	0	1681	17	0
1	C	1686	0	1674	10	0
2	A	124	0	0	2	0
2	B	124	0	0	2	0
2	C	124	0	0	2	0
3	A	1	0	0	0	0
3	B	2	0	0	1	0
3	C	2	0	0	0	0
4	A	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	5	0	0	2	0
4	C	7	0	0	0	0
5	A	66	0	0	0	0
5	B	59	0	0	0	0
5	C	95	0	0	1	0
All	All	5698	0	5059	41	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 4.

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:192:GLN:HA	1:A:199:LYS:HE3	1.79	0.65
1:B:18:ARG:HG3	4:B:307:CL:CL	2.35	0.63
1:C:7:GLN:NE2	5:C:401:HOH:O	2.34	0.59
1:B:202:LEU:HD13	1:B:214:MET:HE3	1.89	0.55
1:A:57:ASN:OD1	2:A:301[A]:61F:N42	2.43	0.52
1:B:2:ILE:HG22	1:B:10:MET:HE3	1.91	0.52
1:C:192:GLN:HA	1:C:199:LYS:HE3	1.90	0.52
1:B:2:ILE:HD11	1:B:115:ILE:HG12	1.92	0.51
1:C:211:LEU:HA	1:C:214:MET:HE3	1.93	0.51
1:A:37:ILE:HB	1:A:38:PRO:HD3	1.94	0.49
1:A:65:ALA:HB1	1:A:141:ILE:HD13	1.96	0.47
1:A:2:ILE:HG22	1:A:10:MET:HE3	1.97	0.47
1:A:5:ASN:HD21	1:A:9:GLN:HB2	1.80	0.46
1:B:5:ASN:HD21	1:B:9:GLN:HB2	1.80	0.46
1:C:57:ASN:OD1	2:C:301[B]:61F:N42	2.48	0.46
1:A:57:ASN:OD1	2:A:301[B]:61F:N42	2.50	0.45
1:B:162:ARG:NH2	4:B:305:CL:CL	2.80	0.45
1:C:2:ILE:HD11	1:C:115:ILE:HG12	1.99	0.44
1:C:4:GLN:OE1	1:C:8:GLY:HA2	2.18	0.44
1:A:96:MET:SD	1:A:116:GLY:HA3	2.58	0.44
1:C:65:ALA:HB1	1:C:141:ILE:HD13	1.98	0.44
1:B:2:ILE:HD13	1:B:12:HIS:HA	2.00	0.43
1:B:37:ILE:HB	1:B:38:PRO:HD3	1.99	0.43
1:C:68:MET:HE2	1:C:68:MET:HB3	1.82	0.43
1:A:79:GLU:OE2	1:A:82:ARG:NH2	2.40	0.43
1:B:156:GLY:HA3	3:B:302:IOD:I	2.89	0.43
1:C:57:ASN:OD1	2:C:301[A]:61F:N42	2.50	0.43
1:B:57:ASN:OD1	2:B:301[A]:61F:N42	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:LEU:HA	1:A:214:MET:HE2	2.00	0.42
1:B:35:GLU:C	1:B:38:PRO:HD2	2.44	0.42
1:B:23:TRP:CZ3	1:B:40:PHE:HB2	2.54	0.42
1:B:96:MET:HE3	1:B:96:MET:HB3	1.83	0.42
1:A:144:MET:HE3	1:A:144:MET:HB2	1.88	0.41
1:B:5:ASN:ND2	1:B:9:GLN:HB2	2.34	0.41
1:A:143:ARG:NH1	1:A:176:GLN:O	2.53	0.41
1:A:35:GLU:C	1:A:38:PRO:HD2	2.46	0.41
1:A:202:LEU:HD22	1:A:214:MET:HG2	2.03	0.41
1:B:122:PRO:HA	1:B:123:PRO:HD3	1.94	0.40
1:C:202:LEU:HD22	1:C:214:MET:HG2	2.02	0.40
1:B:57:ASN:OD1	2:B:301[B]:61F:N42	2.54	0.40
1:B:153:ILE:HG21	1:B:168:PHE:HA	2.03	0.40

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	218/231 (94%)	214 (98%)	4 (2%)	0	100	100
1	B	216/231 (94%)	211 (98%)	5 (2%)	0	100	100
1	C	218/231 (94%)	213 (98%)	5 (2%)	0	100	100
All	All	652/693 (94%)	638 (98%)	14 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	186/193 (96%)	184 (99%)	2 (1%)	65	79
1	B	182/193 (94%)	182 (100%)	0	100	100
1	C	182/193 (94%)	181 (100%)	1 (0%)	81	89
All	All	550/579 (95%)	547 (100%)	3 (0%)	81	89

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	39	MET
1	A	96	MET
1	C	86	VAL

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	50	GLN
1	A	84	HIS
1	A	95	GLN
1	A	120	HIS
1	A	176	GLN
1	B	50	GLN
1	C	50	GLN
1	C	63	GLN
1	C	219	GLN

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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 28 ligands modelled in this entry, 22 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
2	61F	A	301[B]	-	63,67,67	1.91	14 (22%)	77,105,105	3.49	24 (31%)
2	61F	B	301[B]	-	63,67,67	1.89	14 (22%)	77,105,105	3.44	22 (28%)
2	61F	C	301[A]	-	63,67,67	1.91	15 (23%)	77,105,105	3.43	23 (29%)
2	61F	A	301[A]	-	63,67,67	1.94	15 (23%)	77,105,105	3.54	25 (32%)
2	61F	C	301[B]	-	63,67,67	1.96	16 (25%)	77,105,105	3.65	24 (31%)
2	61F	B	301[A]	-	63,67,67	1.95	16 (25%)	77,105,105	3.63	24 (31%)

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	61F	A	301[B]	-	-	5/45/58/58	0/6/6/6
2	61F	B	301[B]	-	-	6/45/58/58	0/6/6/6
2	61F	C	301[A]	-	-	2/45/58/58	0/6/6/6
2	61F	A	301[A]	-	-	5/45/58/58	0/6/6/6
2	61F	C	301[B]	-	-	6/45/58/58	0/6/6/6
2	61F	B	301[A]	-	-	10/45/58/58	0/6/6/6

All (90) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	301[A]	61F	C43-N42	5.75	1.46	1.34
2	B	301[B]	61F	C43-N42	5.70	1.46	1.34
2	A	301[B]	61F	C43-N42	5.64	1.46	1.34
2	C	301[A]	61F	C43-N42	5.62	1.45	1.34
2	A	301[A]	61F	C43-N42	5.61	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	301[B]	61F	C43-N42	5.58	1.45	1.34
2	C	301[B]	61F	C02-C04	5.55	1.54	1.46
2	C	301[B]	61F	C06-C05	5.43	1.54	1.44
2	B	301[A]	61F	C02-C04	5.40	1.54	1.46
2	A	301[A]	61F	C02-C04	5.35	1.54	1.46
2	B	301[A]	61F	C06-C05	5.30	1.54	1.44
2	A	301[A]	61F	C06-C05	5.27	1.54	1.44
2	B	301[A]	61F	C60-S59	5.07	1.82	1.76
2	C	301[B]	61F	C60-S59	5.04	1.82	1.76
2	B	301[B]	61F	C60-S59	4.98	1.82	1.76
2	A	301[B]	61F	C06-C05	4.97	1.54	1.44
2	C	301[A]	61F	C06-C05	4.93	1.53	1.44
2	A	301[B]	61F	C02-C04	4.92	1.53	1.46
2	C	301[A]	61F	C60-S59	4.92	1.82	1.76
2	A	301[B]	61F	C60-S59	4.87	1.82	1.76
2	A	301[A]	61F	C60-S59	4.80	1.82	1.76
2	B	301[B]	61F	C06-C05	4.80	1.53	1.44
2	C	301[A]	61F	C02-C04	4.80	1.53	1.46
2	B	301[B]	61F	C02-C04	4.69	1.53	1.46
2	C	301[A]	61F	O62-S59	3.65	1.46	1.44
2	A	301[A]	61F	O61-S59	3.62	1.46	1.44
2	C	301[B]	61F	C51-C50	3.60	1.55	1.49
2	C	301[A]	61F	C51-C50	3.58	1.55	1.49
2	B	301[B]	61F	O62-S59	3.57	1.46	1.44
2	B	301[A]	61F	O61-S59	3.56	1.46	1.44
2	A	301[B]	61F	C51-C50	3.55	1.55	1.49
2	A	301[A]	61F	C51-C50	3.51	1.55	1.49
2	A	301[B]	61F	O61-S59	3.51	1.46	1.44
2	B	301[B]	61F	C51-C50	3.48	1.55	1.49
2	C	301[A]	61F	O61-S59	3.48	1.46	1.44
2	B	301[A]	61F	C51-C50	3.45	1.55	1.49
2	B	301[B]	61F	O61-S59	3.40	1.46	1.44
2	A	301[B]	61F	O62-S59	3.40	1.46	1.44
2	A	301[A]	61F	O62-S59	3.40	1.46	1.44
2	C	301[B]	61F	O62-S59	3.33	1.46	1.44
2	B	301[A]	61F	O62-S59	3.27	1.46	1.44
2	C	301[B]	61F	O61-S59	3.19	1.46	1.44
2	C	301[B]	61F	S21-N20	2.95	1.71	1.65
2	B	301[A]	61F	C22-S21	2.94	1.82	1.75
2	B	301[B]	61F	C22-S21	2.94	1.82	1.75
2	C	301[A]	61F	C22-S21	2.93	1.82	1.75
2	C	301[B]	61F	C22-S21	2.92	1.82	1.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301[A]	61F	C22-S21	2.92	1.82	1.75
2	A	301[B]	61F	C22-S21	2.90	1.82	1.75
2	A	301[A]	61F	S21-N20	2.90	1.71	1.65
2	C	301[A]	61F	S21-N20	2.90	1.71	1.65
2	A	301[B]	61F	S21-N20	2.89	1.71	1.65
2	B	301[A]	61F	S21-N20	2.76	1.70	1.65
2	B	301[B]	61F	S21-N20	2.75	1.70	1.65
2	C	301[B]	61F	C10-C11	2.57	1.44	1.41
2	A	301[A]	61F	C10-C11	2.55	1.44	1.41
2	C	301[B]	61F	C54-C49	2.50	1.55	1.51
2	B	301[A]	61F	C54-C49	2.49	1.55	1.51
2	C	301[A]	61F	C54-C49	2.48	1.55	1.51
2	A	301[A]	61F	C54-C49	2.48	1.55	1.51
2	A	301[B]	61F	C10-C11	2.48	1.44	1.41
2	B	301[B]	61F	C54-C49	2.47	1.55	1.51
2	A	301[B]	61F	C54-C49	2.46	1.55	1.51
2	C	301[A]	61F	C10-C11	2.39	1.44	1.41
2	B	301[A]	61F	C10-C11	2.32	1.43	1.41
2	C	301[B]	61F	C09-C10	2.25	1.54	1.49
2	B	301[A]	61F	C26-CL27	2.23	1.78	1.73
2	C	301[B]	61F	C26-CL27	2.22	1.78	1.73
2	A	301[A]	61F	C26-CL27	2.21	1.78	1.73
2	B	301[B]	61F	C26-CL27	2.20	1.78	1.73
2	A	301[B]	61F	C26-CL27	2.19	1.78	1.73
2	B	301[B]	61F	C10-C11	2.19	1.43	1.41
2	C	301[A]	61F	C26-CL27	2.18	1.78	1.73
2	B	301[A]	61F	O24-S21	2.15	1.47	1.43
2	C	301[B]	61F	O23-S21	2.13	1.47	1.43
2	B	301[B]	61F	O24-S21	2.13	1.47	1.43
2	B	301[B]	61F	O44-C43	-2.12	1.19	1.23
2	A	301[B]	61F	O44-C43	-2.11	1.19	1.23
2	B	301[A]	61F	O44-C43	-2.11	1.19	1.23
2	A	301[A]	61F	O44-C43	-2.10	1.19	1.23
2	C	301[B]	61F	O24-S21	2.08	1.46	1.43
2	A	301[B]	61F	O24-S21	2.07	1.46	1.43
2	A	301[A]	61F	C09-C10	2.07	1.54	1.49
2	C	301[A]	61F	O44-C43	-2.07	1.19	1.23
2	A	301[A]	61F	O24-S21	2.06	1.46	1.43
2	C	301[A]	61F	O24-S21	2.05	1.46	1.43
2	C	301[B]	61F	O44-C43	-2.04	1.19	1.23
2	C	301[A]	61F	O23-S21	2.04	1.46	1.43
2	B	301[A]	61F	O23-S21	2.00	1.46	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	301[A]	61F	C09-C10	2.00	1.53	1.49

All (142) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	301[B]	61F	O62-S59-O61	-22.12	99.83	118.01
2	B	301[A]	61F	O62-S59-O61	-21.63	100.24	118.01
2	A	301[A]	61F	O62-S59-O61	-20.86	100.86	118.01
2	A	301[B]	61F	O62-S59-O61	-20.43	101.22	118.01
2	B	301[B]	61F	O62-S59-O61	-19.74	101.79	118.01
2	C	301[A]	61F	O62-S59-O61	-19.62	101.89	118.01
2	A	301[A]	61F	O24-S21-O23	-13.48	100.81	118.87
2	A	301[B]	61F	O24-S21-O23	-13.45	100.84	118.87
2	C	301[A]	61F	O24-S21-O23	-13.41	100.89	118.87
2	B	301[A]	61F	O24-S21-O23	-13.27	101.08	118.87
2	C	301[B]	61F	O24-S21-O23	-13.20	101.18	118.87
2	B	301[B]	61F	O24-S21-O23	-13.20	101.18	118.87
2	A	301[B]	61F	C49-C48-N47	-7.68	107.60	111.24
2	B	301[A]	61F	C49-C48-N47	-7.66	107.61	111.24
2	B	301[B]	61F	C49-C48-N47	-7.62	107.63	111.24
2	A	301[A]	61F	C49-C48-N47	-7.59	107.65	111.24
2	C	301[A]	61F	C49-C48-N47	-7.44	107.72	111.24
2	C	301[B]	61F	C49-C48-N47	-7.35	107.76	111.24
2	B	301[A]	61F	C55-C48-N47	7.13	126.94	118.50
2	B	301[B]	61F	C55-C48-N47	7.04	126.83	118.50
2	C	301[A]	61F	C55-C48-N47	6.78	126.53	118.50
2	C	301[B]	61F	C55-C48-N47	6.71	126.44	118.50
2	A	301[B]	61F	C55-C48-N47	6.64	126.36	118.50
2	A	301[A]	61F	C55-C48-N47	6.47	126.16	118.50
2	B	301[A]	61F	C06-N31-C30	6.22	122.24	117.29
2	C	301[B]	61F	C06-N31-C30	6.14	122.17	117.29
2	A	301[A]	61F	C06-N31-C30	6.05	122.10	117.29
2	A	301[B]	61F	C06-N31-C30	5.34	121.54	117.29
2	C	301[A]	61F	C06-N31-C30	5.23	121.45	117.29
2	B	301[B]	61F	C06-N31-C30	5.16	121.40	117.29
2	C	301[B]	61F	C45-N46-C50	-4.48	124.83	129.10
2	C	301[A]	61F	C45-N46-C50	-4.41	124.90	129.10
2	A	301[A]	61F	C45-N46-C50	-4.41	124.90	129.10
2	A	301[B]	61F	C45-N46-C50	-4.39	124.92	129.10
2	B	301[A]	61F	N20-C19-N18	4.27	127.69	119.03
2	B	301[B]	61F	C45-N46-C50	-4.25	125.05	129.10
2	B	301[A]	61F	C45-N46-C50	-4.24	125.06	129.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	301[A]	61F	C45-N46-N47	4.10	124.60	118.99
2	B	301[B]	61F	C45-N46-N47	4.08	124.57	118.99
2	A	301[B]	61F	C45-N46-N47	4.01	124.47	118.99
2	C	301[A]	61F	C45-N46-N47	4.00	124.46	118.99
2	A	301[A]	61F	C45-N46-N47	3.99	124.44	118.99
2	C	301[B]	61F	C45-N46-N47	3.98	124.42	118.99
2	B	301[B]	61F	N20-C19-N18	3.90	126.93	119.03
2	B	301[A]	61F	C51-C50-C49	-3.85	121.21	125.54
2	B	301[B]	61F	C51-C50-C49	-3.84	121.23	125.54
2	C	301[B]	61F	C01-C02-C04	-3.82	106.34	109.99
2	C	301[B]	61F	N20-C19-N18	3.70	126.53	119.03
2	C	301[A]	61F	N20-C19-N18	3.69	126.51	119.03
2	C	301[A]	61F	C51-C50-C49	-3.68	121.41	125.54
2	A	301[A]	61F	N20-C19-N18	3.64	126.41	119.03
2	C	301[B]	61F	C51-C50-C49	-3.58	121.51	125.54
2	A	301[B]	61F	C51-C50-C49	-3.57	121.53	125.54
2	A	301[A]	61F	C51-C50-C49	-3.55	121.56	125.54
2	B	301[B]	61F	C11-N12-N18	-3.47	110.12	111.71
2	A	301[B]	61F	N20-C19-N18	3.45	126.03	119.03
2	B	301[A]	61F	C50-N46-N47	-3.39	110.33	113.85
2	B	301[B]	61F	C50-N46-N47	-3.34	110.38	113.85
2	C	301[A]	61F	C11-N12-N18	-3.23	110.22	111.71
2	B	301[A]	61F	C11-N12-N18	-3.15	110.26	111.71
2	A	301[B]	61F	C50-N46-N47	-3.12	110.61	113.85
2	C	301[A]	61F	C50-N46-N47	-3.09	110.64	113.85
2	A	301[A]	61F	C50-N46-N47	-3.08	110.65	113.85
2	A	301[B]	61F	C11-N12-N18	-3.04	110.31	111.71
2	A	301[A]	61F	C11-N12-N18	-3.00	110.33	111.71
2	C	301[B]	61F	C50-N46-N47	-2.99	110.74	113.85
2	B	301[B]	61F	O62-S59-C60	2.92	112.11	108.42
2	A	301[A]	61F	C38-C36-C35	-2.91	119.96	123.50
2	A	301[B]	61F	C38-C36-C35	-2.91	119.96	123.50
2	B	301[B]	61F	C38-C36-C35	-2.89	119.99	123.50
2	B	301[A]	61F	C38-C36-C35	-2.88	120.00	123.50
2	C	301[A]	61F	O62-S59-C60	2.84	112.00	108.42
2	C	301[A]	61F	C38-C36-C35	-2.84	120.05	123.50
2	C	301[A]	61F	C41-C39-C38	-2.84	120.05	123.50
2	C	301[B]	61F	C38-C36-C35	-2.81	120.09	123.50
2	C	301[B]	61F	C41-C39-C38	-2.80	120.09	123.50
2	A	301[B]	61F	C41-C39-C38	-2.79	120.11	123.50
2	B	301[A]	61F	O61-S59-C60	2.76	111.90	108.42
2	A	301[B]	61F	O62-S59-C60	2.76	111.90	108.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	301[B]	61F	C41-C39-C38	-2.75	120.16	123.50
2	A	301[A]	61F	C41-C39-C38	-2.73	120.18	123.50
2	C	301[A]	61F	O23-S21-N20	2.70	112.29	106.83
2	B	301[A]	61F	C41-C39-C38	-2.70	120.22	123.50
2	C	301[B]	61F	C11-N12-N18	-2.68	110.48	111.71
2	B	301[A]	61F	C01-C02-C04	-2.67	107.44	109.99
2	A	301[B]	61F	C39-C38-C36	2.66	119.96	116.08
2	C	301[A]	61F	C39-C38-C36	2.65	119.94	116.08
2	B	301[B]	61F	C39-C38-C36	2.64	119.93	116.08
2	A	301[A]	61F	C39-C38-C36	2.63	119.91	116.08
2	C	301[B]	61F	C39-C38-C36	2.62	119.90	116.08
2	B	301[A]	61F	C39-C38-C36	2.62	119.90	116.08
2	C	301[B]	61F	O23-S21-N20	2.60	112.08	106.83
2	B	301[A]	61F	F57-C55-C48	-2.56	108.74	112.39
2	C	301[B]	61F	F58-C55-C48	-2.53	108.78	112.39
2	C	301[B]	61F	C07-C06-N31	-2.51	119.67	123.09
2	C	301[B]	61F	O62-S59-C60	2.51	111.58	108.42
2	A	301[A]	61F	O24-S21-N20	2.49	111.87	106.83
2	B	301[B]	61F	O23-S21-N20	2.46	111.81	106.83
2	B	301[B]	61F	F57-C55-C48	-2.44	108.91	112.39
2	A	301[A]	61F	C01-C02-C04	-2.44	107.67	109.99
2	A	301[B]	61F	O23-S21-N20	2.42	111.71	106.83
2	C	301[A]	61F	F58-C55-C48	-2.41	108.95	112.39
2	B	301[A]	61F	O23-S21-N20	2.41	111.70	106.83
2	A	301[A]	61F	O61-S59-C60	2.41	111.45	108.42
2	A	301[B]	61F	O24-S21-N20	2.39	111.66	106.83
2	A	301[B]	61F	C32-N42-C43	-2.37	119.90	123.44
2	A	301[A]	61F	C32-N42-C43	-2.37	119.91	123.44
2	C	301[B]	61F	C22-S21-N20	2.32	110.54	105.08
2	B	301[A]	61F	O23-S21-C22	2.29	111.89	108.26
2	A	301[A]	61F	O23-S21-N20	2.29	111.46	106.83
2	C	301[B]	61F	C11-C25-C26	2.27	121.19	118.10
2	A	301[B]	61F	O61-S59-C60	2.26	111.27	108.42
2	C	301[B]	61F	O61-S59-C60	2.26	111.27	108.42
2	C	301[A]	61F	C22-S21-N20	2.25	110.36	105.08
2	B	301[A]	61F	C11-C25-C26	2.24	121.15	118.10
2	B	301[B]	61F	O23-S21-C22	2.23	111.78	108.26
2	C	301[B]	61F	C08-C09-C10	2.20	123.19	118.74
2	B	301[A]	61F	O62-S59-C60	2.19	111.17	108.42
2	B	301[A]	61F	C07-C06-N31	-2.17	120.14	123.09
2	C	301[A]	61F	C11-C25-C26	2.17	121.05	118.10
2	A	301[A]	61F	C22-S21-N20	2.16	110.17	105.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	301[A]	61F	F56-C55-C48	-2.16	109.31	112.39
2	A	301[A]	61F	F57-C55-C48	-2.15	109.33	112.39
2	B	301[A]	61F	C22-S21-N20	2.14	110.11	105.08
2	A	301[B]	61F	F56-C55-C48	-2.12	109.36	112.39
2	A	301[A]	61F	C07-C06-N31	-2.11	120.22	123.09
2	A	301[B]	61F	C22-S21-N20	2.11	110.03	105.08
2	B	301[B]	61F	C11-C25-C26	2.08	120.94	118.10
2	A	301[B]	61F	F58-C55-C48	-2.07	109.44	112.39
2	B	301[B]	61F	O24-S21-N20	2.05	110.97	106.83
2	B	301[B]	61F	C22-S21-N20	2.05	109.89	105.08
2	A	301[B]	61F	F57-C55-C48	-2.04	109.48	112.39
2	A	301[A]	61F	F58-C55-C48	-2.04	109.48	112.39
2	C	301[A]	61F	C32-N42-C43	-2.04	120.40	123.44
2	C	301[B]	61F	O23-S21-C22	2.04	111.48	108.26
2	C	301[A]	61F	O23-S21-C22	2.04	111.48	108.26
2	A	301[A]	61F	O23-S21-C22	2.03	111.48	108.26
2	B	301[B]	61F	C09-C10-C11	-2.03	121.60	124.44
2	A	301[B]	61F	O23-S21-C22	2.02	111.45	108.26
2	C	301[A]	61F	O61-S59-C60	2.02	110.96	108.42
2	C	301[A]	61F	F56-C55-C48	-2.02	109.52	112.39
2	B	301[A]	61F	O24-S21-N20	2.02	110.90	106.83

There are no chirality outliers.

All (34) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301[A]	61F	C14-C13-N12-C11
2	A	301[A]	61F	C14-C13-N12-N18
2	A	301[A]	61F	C02-C04-C05-C06
2	A	301[B]	61F	C14-C13-N12-C11
2	A	301[B]	61F	C14-C13-N12-N18
2	B	301[A]	61F	C01-C02-S59-O61
2	B	301[A]	61F	C03-C02-S59-O62
2	B	301[A]	61F	C04-C02-S59-O61
2	B	301[A]	61F	C04-C02-S59-O62
2	B	301[A]	61F	C02-C04-C05-C06
2	B	301[B]	61F	C02-C04-C05-C06
2	C	301[A]	61F	C02-C04-C05-C06
2	C	301[B]	61F	C03-C02-S59-O62
2	C	301[B]	61F	C04-C02-S59-O61
2	C	301[B]	61F	C04-C02-S59-O62
2	B	301[A]	61F	N12-C13-C14-F16

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Mol	Chain	Res	Type	Atoms
2	B	301[A]	61F	N12-C13-C14-F17
2	C	301[B]	61F	C02-C04-C05-C06
2	A	301[B]	61F	C19-N20-S21-C22
2	A	301[A]	61F	C19-N20-S21-O24
2	A	301[B]	61F	C19-N20-S21-O24
2	B	301[B]	61F	C19-N20-S21-O24
2	B	301[A]	61F	N12-C13-C14-F15
2	B	301[B]	61F	N12-C13-C14-F15
2	B	301[A]	61F	C03-C02-S59-O61
2	C	301[B]	61F	C01-C02-S59-O61
2	C	301[B]	61F	C01-C02-S59-O62
2	A	301[A]	61F	C19-N20-S21-C22
2	B	301[B]	61F	N12-C13-C14-F16
2	B	301[B]	61F	N12-C13-C14-F17
2	C	301[A]	61F	N12-C13-C14-F17
2	A	301[B]	61F	C25-C19-N20-S21
2	B	301[B]	61F	C25-C19-N20-S21
2	B	301[A]	61F	C19-N20-S21-O23

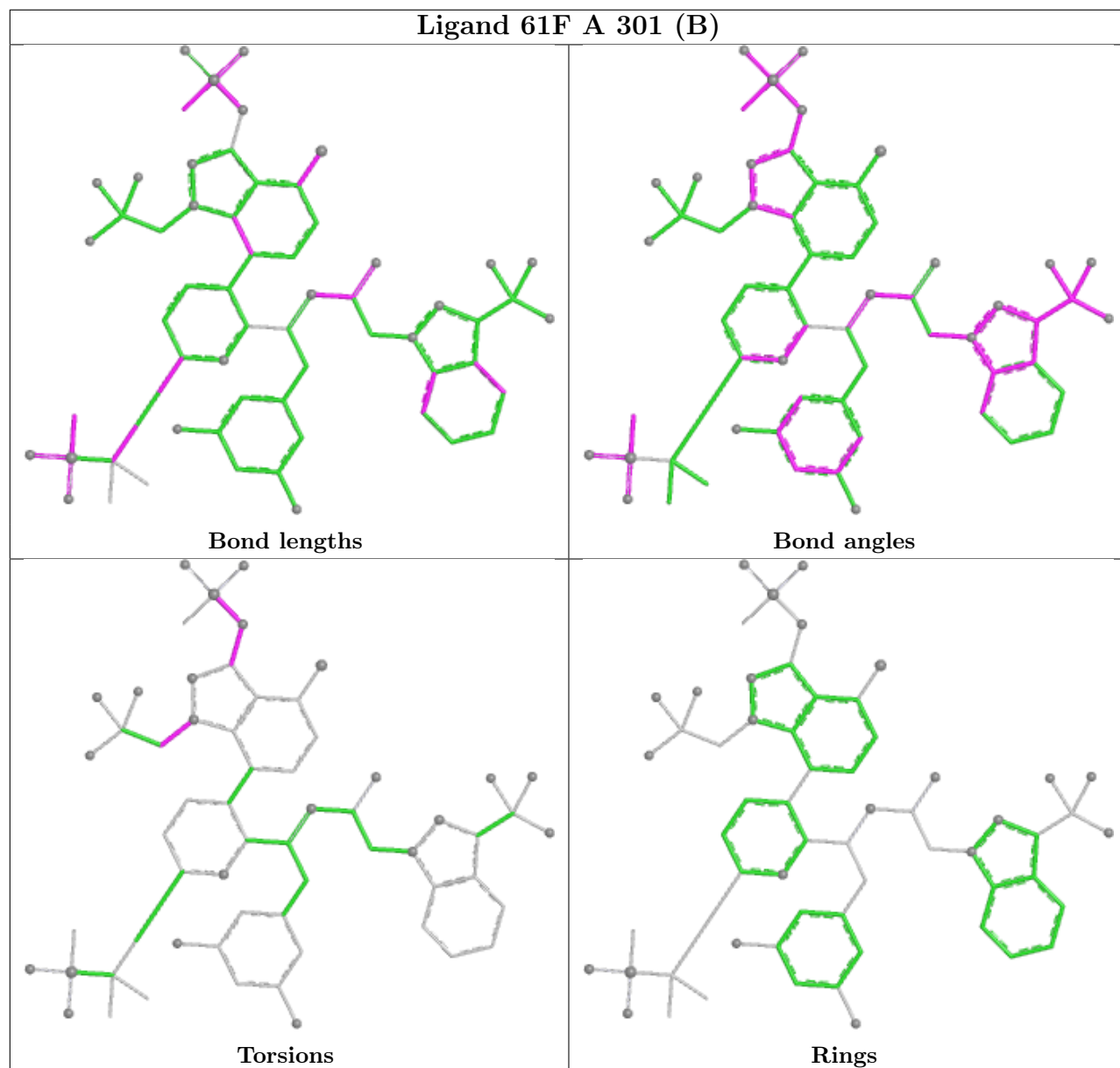
There are no ring outliers.

6 monomers are involved in 6 short contacts:

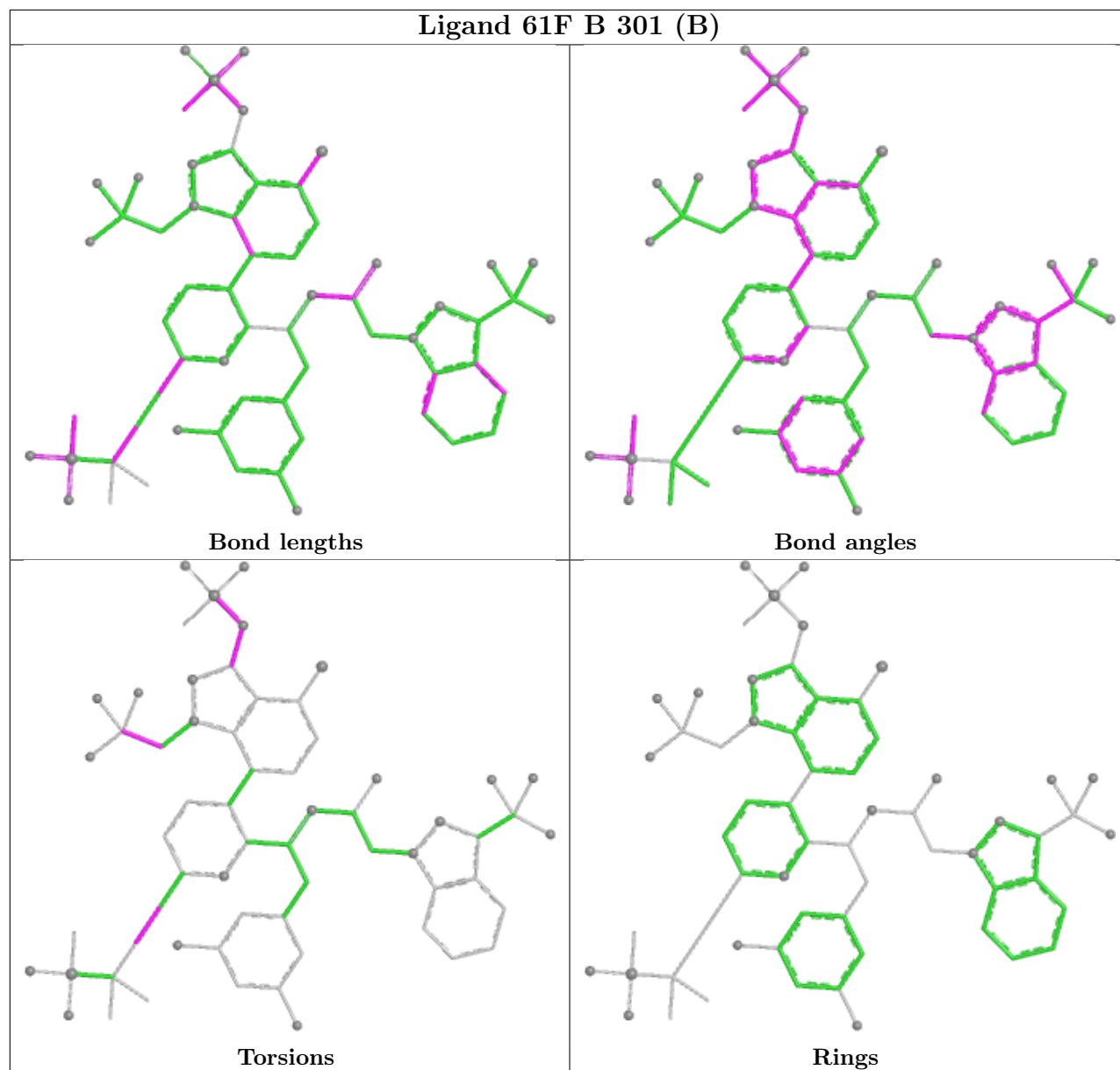
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	301[B]	61F	1	0
2	B	301[B]	61F	1	0
2	C	301[A]	61F	1	0
2	A	301[A]	61F	1	0
2	C	301[B]	61F	1	0
2	B	301[A]	61F	1	0

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.

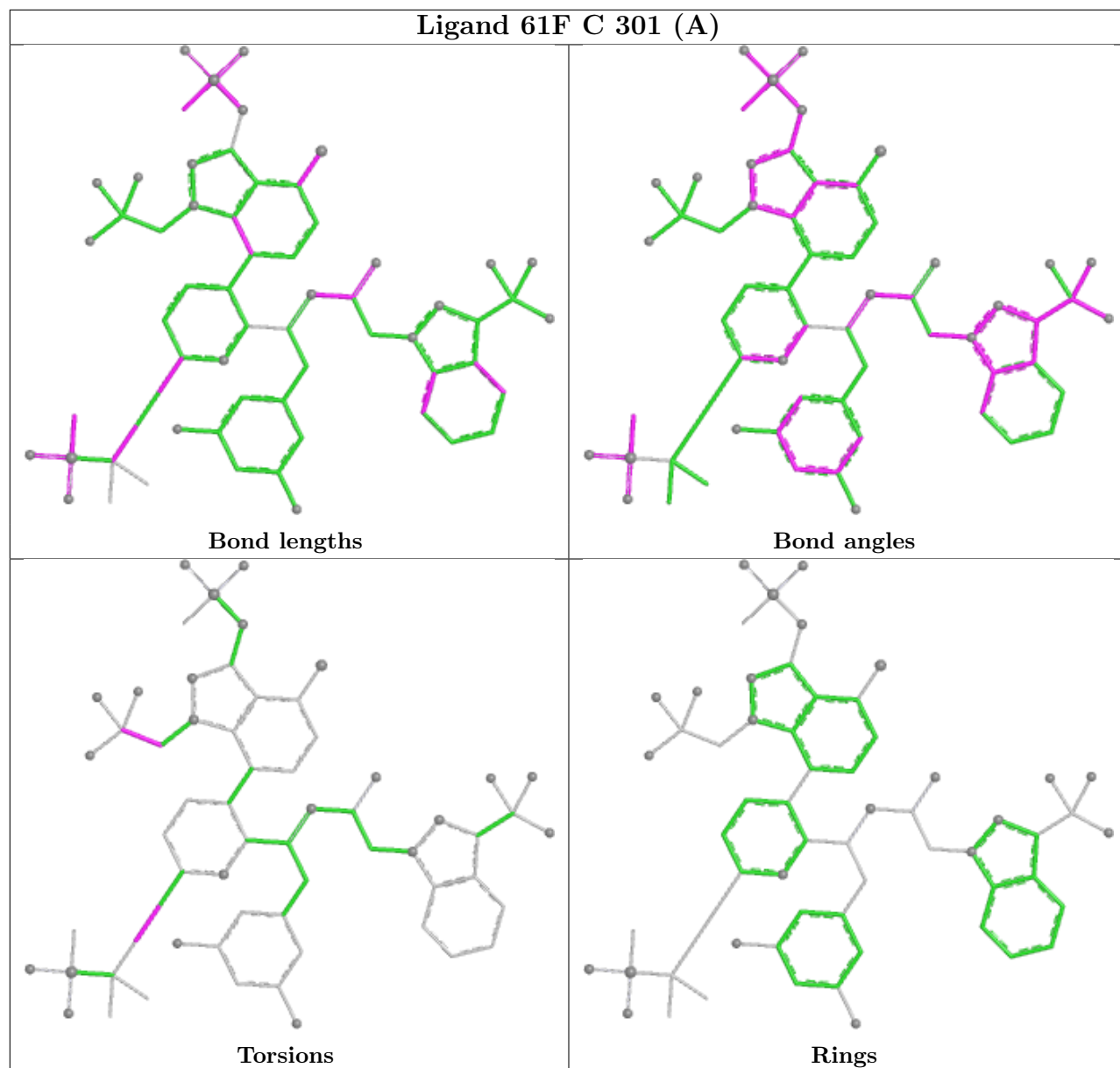
Ligand 61F A 301 (B)



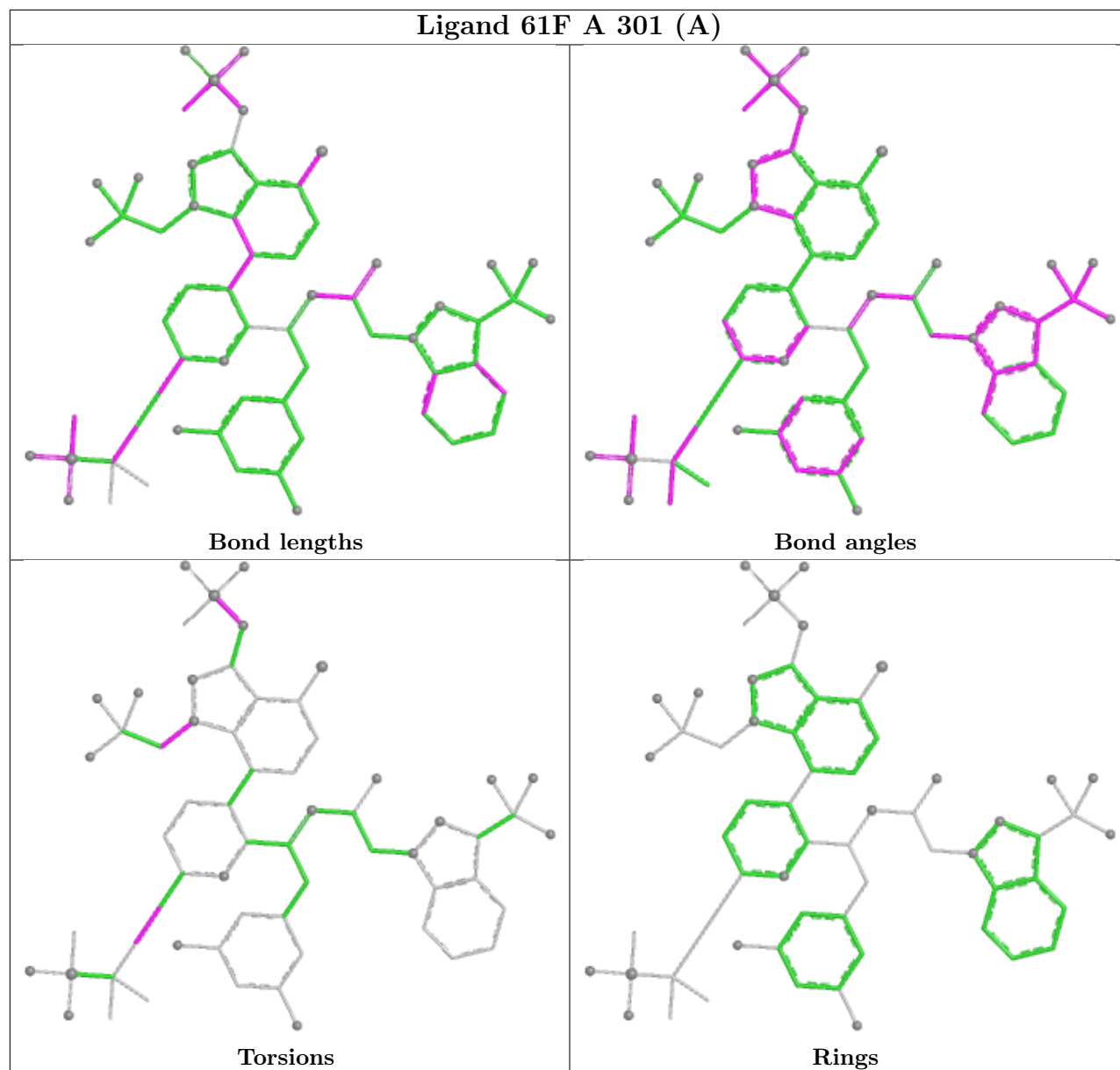
Ligand 61F B 301 (B)



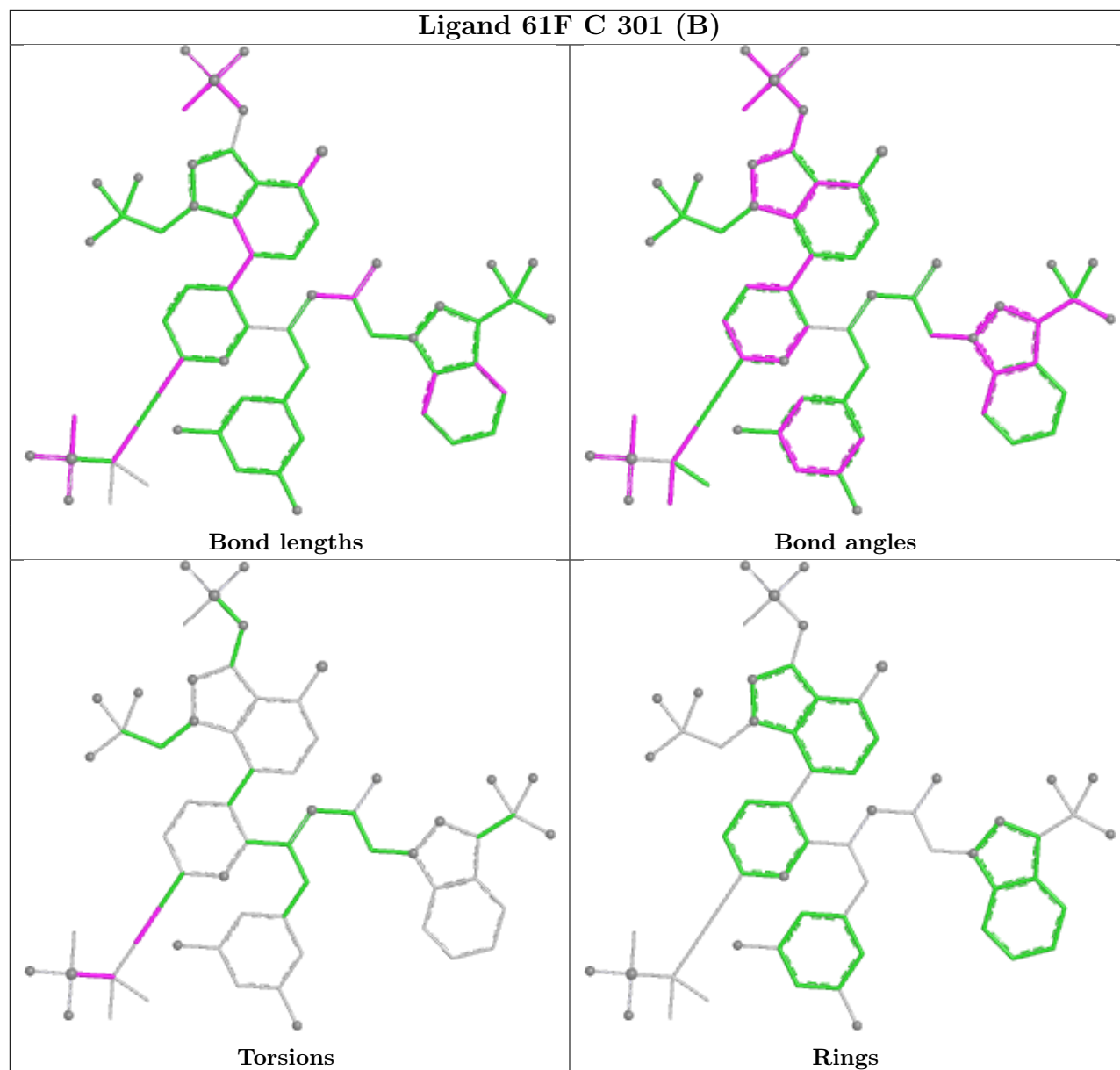
Ligand 61F C 301 (A)

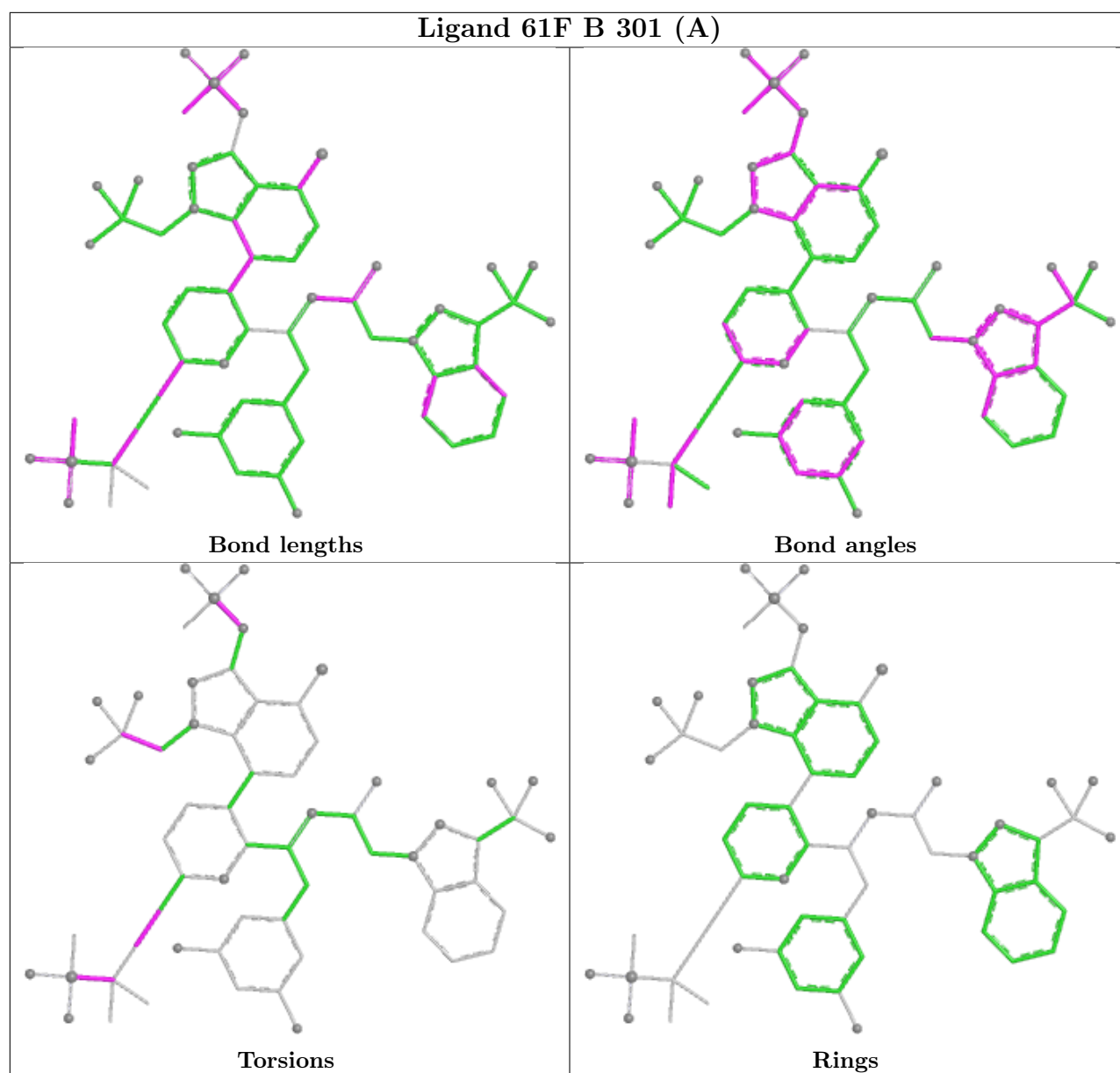


Ligand 61F A 301 (A)



Ligand 61F C 301 (B)





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

6.1 Protein, DNA and RNA chains

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	219/231 (94%)	0.48	15 (6%) 23 24	14, 35, 67, 82	1 (0%)
1	B	218/231 (94%)	0.70	22 (10%) 12 13	17, 37, 76, 107	2 (0%)
1	C	220/231 (95%)	0.48	21 (9%) 14 15	19, 31, 65, 111	0
All	All	657/693 (94%)	0.55	58 (8%) 15 16	14, 34, 70, 111	3 (0%)

All (58) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	177	ALA	7.3
1	B	185	ALA	6.7
1	C	188	THR	5.5
1	B	95	GLN	5.5
1	B	220	GLY	5.0
1	B	187	GLU	4.9
1	B	86	VAL	4.9
1	B	176	GLN	4.9
1	C	95	GLN	4.8
1	B	180	GLU	4.7
1	B	181	VAL	4.5
1	C	178	SER	4.4
1	B	186	THR	4.4
1	B	179	GLN	4.3
1	C	6	LEU	4.2
1	C	7	GLN	3.8
1	A	177	ALA	3.7
1	C	176	GLN	3.7
1	C	220	GLY	3.6
1	A	86	VAL	3.6
1	B	98	GLU	3.5
1	C	183	ASN	3.4
1	B	184	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	6	LEU	3.3
1	A	60	GLY	3.2
1	A	181	VAL	3.2
1	C	179	GLN	3.1
1	C	86	VAL	3.1
1	C	181	VAL	3.0
1	A	219	GLN	3.0
1	C	94	GLY	3.0
1	A	95	GLN	3.0
1	C	85	PRO	2.9
1	C	185	ALA	2.9
1	C	207	PRO	2.9
1	C	186	THR	2.8
1	A	179	GLN	2.7
1	B	9	GLN	2.7
1	A	178	SER	2.7
1	B	143	ARG	2.7
1	A	98	GLU	2.6
1	C	180	GLU	2.5
1	B	93	PRO	2.5
1	B	203	LYS	2.5
1	A	176	GLN	2.5
1	A	147	PRO	2.4
1	B	208	GLY	2.4
1	B	94	GLY	2.2
1	A	175	GLU	2.2
1	A	85	PRO	2.2
1	C	88	ALA	2.2
1	B	154	ARG	2.1
1	B	219	GLN	2.1
1	B	206	GLY	2.1
1	A	180	GLU	2.1
1	A	6	LEU	2.1
1	C	96	MET	2.1
1	C	107	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

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.

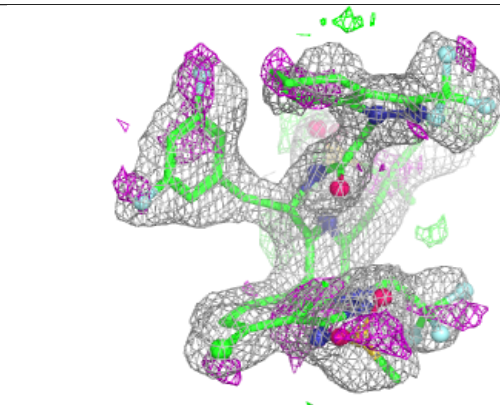
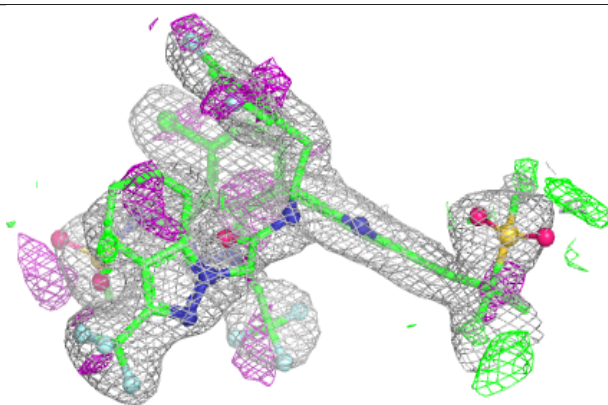
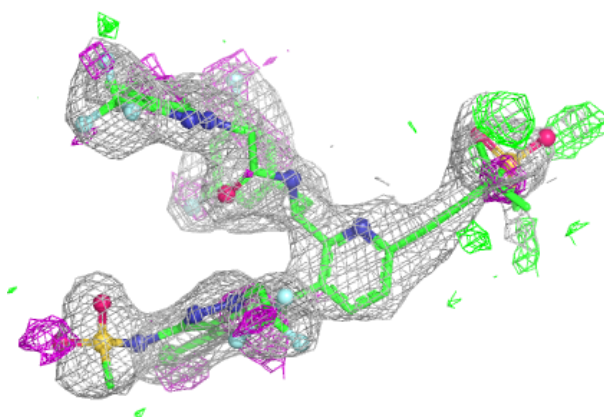
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	61F	C	301[A]	62/62	0.71	0.16	27,39,49,53	62
2	61F	C	301[B]	62/62	0.71	0.16	27,39,49,53	62
2	61F	B	301[A]	62/62	0.76	0.16	28,42,55,60	62
2	61F	B	301[B]	62/62	0.76	0.16	31,42,55,60	62
2	61F	A	301[A]	62/62	0.82	0.19	50,68,100,113	62
2	61F	A	301[B]	62/62	0.82	0.19	52,69,101,113	62
3	IOD	B	303	1/1	0.94	0.14	80,80,80,80	0
3	IOD	C	303	1/1	0.95	0.12	76,76,76,76	0
4	CL	A	307	1/1	0.95	0.12	27,27,27,27	0
4	CL	B	304	1/1	0.95	0.08	36,36,36,36	0
4	CL	C	309	1/1	0.95	0.08	43,43,43,43	0
4	CL	B	307	1/1	0.96	0.08	32,32,32,32	0
4	CL	A	304	1/1	0.97	0.07	27,27,27,27	0
3	IOD	A	302	1/1	0.98	0.04	41,41,41,41	0
3	IOD	C	302	1/1	0.98	0.04	35,35,35,35	0
4	CL	A	305	1/1	0.98	0.12	23,23,23,23	0
4	CL	B	308	1/1	0.98	0.07	41,41,41,41	0
4	CL	C	304	1/1	0.98	0.06	42,42,42,42	0
4	CL	C	306	1/1	0.98	0.06	24,24,24,24	0
4	CL	C	307	1/1	0.98	0.09	34,34,34,34	0
4	CL	A	306	1/1	0.98	0.09	33,33,33,33	0
4	CL	C	310	1/1	0.98	0.12	49,49,49,49	0
4	CL	A	303	1/1	0.99	0.09	19,19,19,19	0
3	IOD	B	302	1/1	0.99	0.04	40,40,40,40	0
4	CL	B	305	1/1	0.99	0.08	19,19,19,19	0
4	CL	C	305	1/1	0.99	0.06	28,28,28,28	0
4	CL	B	306	1/1	1.00	0.11	0,0,0,0	0
4	CL	C	308	1/1	1.00	0.09	6,6,6,6	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.

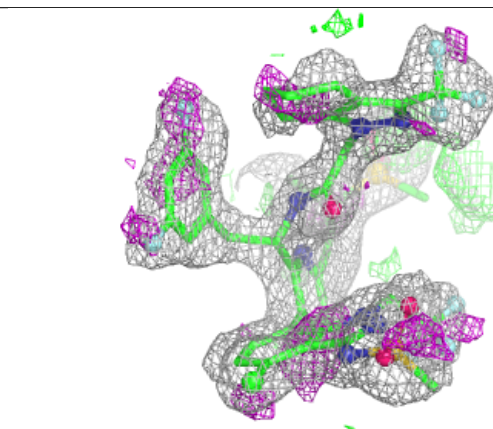
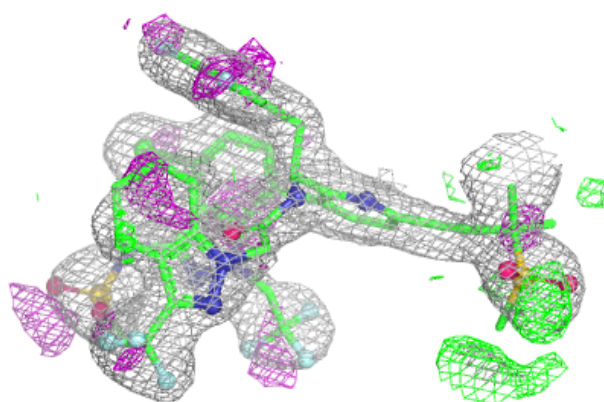
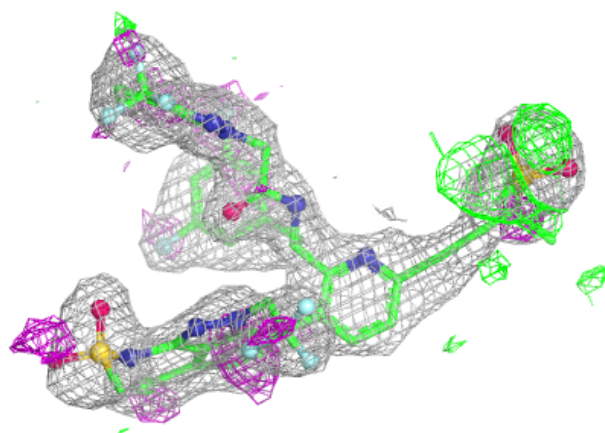
Electron density around 61F C 301 (A):

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



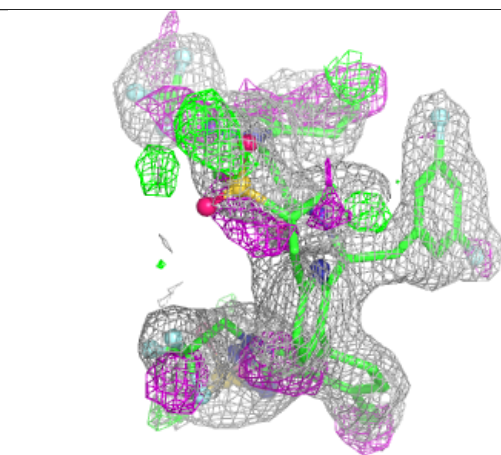
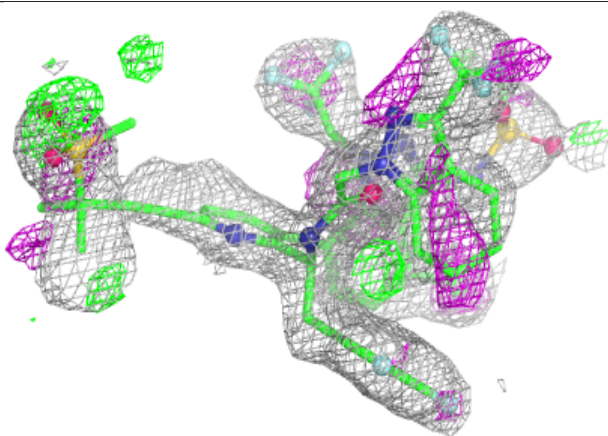
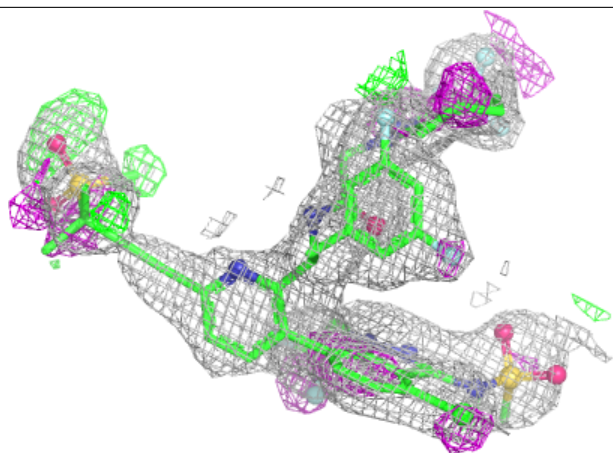
Electron density around 61F C 301 (B):

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

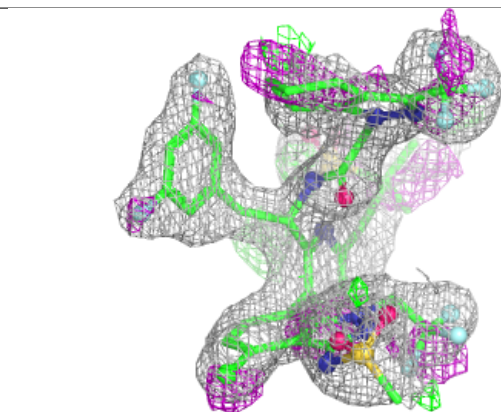
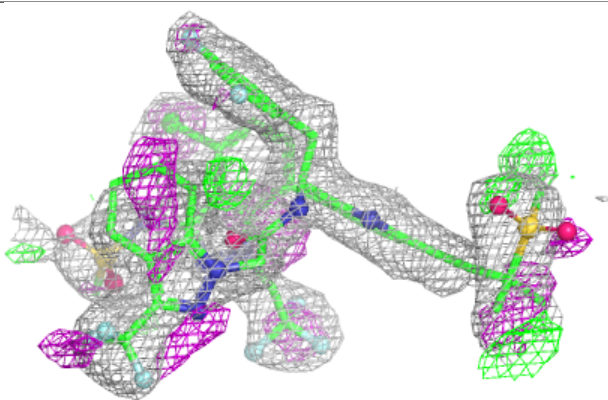
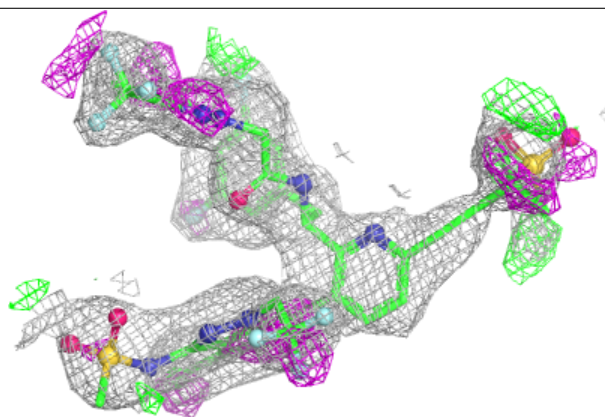


Electron density around 61F B 301 (A):

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

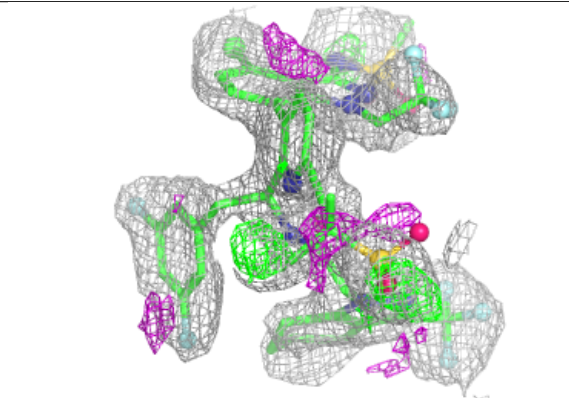
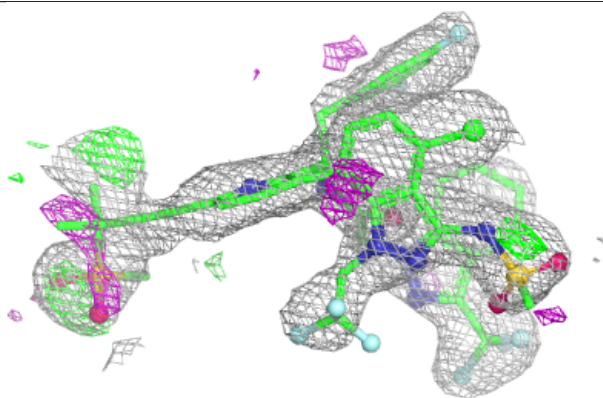
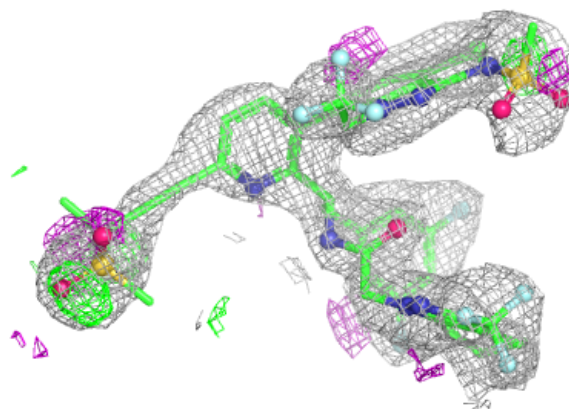
**Electron density around 61F B 301 (B):**

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

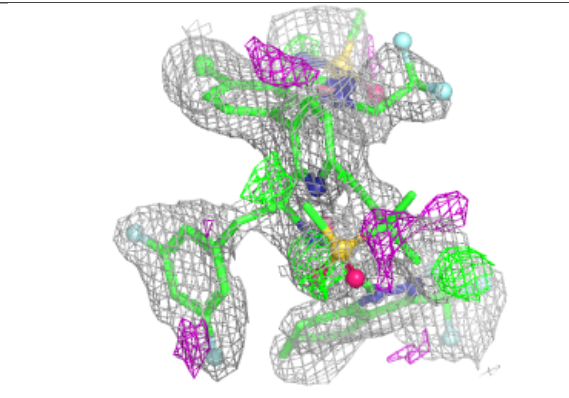
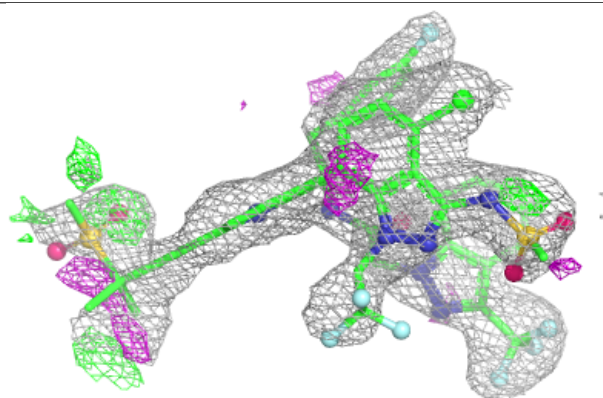
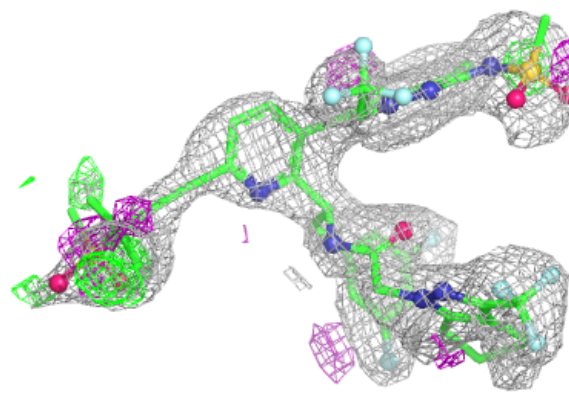


Electron density around 61F A 301 (A):

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

**Electron density around 61F A 301 (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.